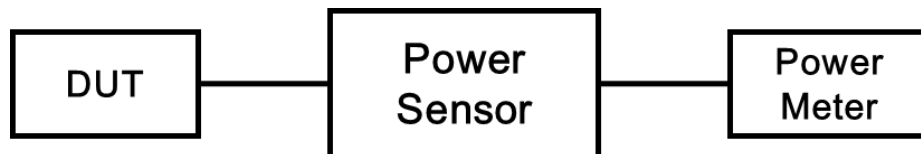


## Appendix A - Conducted Power Measurements

### WLAN Conducted Power

1. As per FCC OET KDB 248227 D01, conducted output power and SAR testing are not required for 802.11g/n20/n40/ax channels 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  $\leq 1.2\text{W/kg}$ .
2. When the reported SAR of the initial test configuration is  $> 0.8\text{ W/kg}$ , SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is  $\leq 1.2\text{ W/kg}$  or all required channels are tested.
3. Additional conducted power measurement is required when reported SAR is  $> 1.2\text{W/kg}$ . In case the subsequent test configuration and the channel bandwidth is smaller than the initial test configuration, all channels that overlap with the larger channel bandwidth in the initial configuration should be tested.
4. The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple transmission modes (802.11a/g/n/ac/ax) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, lowest order 802.11 mode is selected (i.e. a, g, n, ac then ax)
5. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure requirements, is adjusted by the ratio of the subsequent test configuration to the initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2\text{ W/Kg}$ , SAR is not required for that subsequent test configuration.



Power Measurement Setup

| WLAN 2.4GHz Band |         |                 |                  |                     |                     |                  |                     |                     |                       |                          |                     |
|------------------|---------|-----------------|------------------|---------------------|---------------------|------------------|---------------------|---------------------|-----------------------|--------------------------|---------------------|
| Mode             | Channel | Frequency (MHz) | Main             |                     |                     | Aux              |                     |                     | MIMO                  |                          |                     |
|                  |         |                 | Peak Power (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) | Peak Power (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) | Peak Power (dBm) MIMO | Average Power (dBm) MIMO | Tune-Up Limit (dBm) |
| 802.11b          | 1       | 2412            | 19.91            | 16.69               | 17.00               | 19.96            | 16.77               | 17.00               | 22.90                 | 19.65                    | 20.00               |
|                  | 6       | 2437            | 19.81            | 16.65               | 17.00               | 20.43            | 16.87               | 17.00               | 23.10                 | 19.68                    | 20.00               |
|                  | 11      | 2462            | 20.22            | 16.73               | 17.00               | 20.38            | 16.93               | 17.00               | 23.30                 | 19.75                    | 20.00               |
|                  | 12      | 2467            | 19.71            | 16.64               | 17.00               | 20.54            | 16.78               | 17.00               | 23.10                 | 19.63                    | 20.00               |
|                  | 13      | 2472            | 18.70            | 16.07               | 16.50               | 19.58            | 16.00               | 16.50               | 22.10                 | 18.95                    | 19.50               |
| 802.11g          | 1       | 2412            | 22.76            | 16.69               | 17.00               | 22.21            | 16.87               | 17.00               | 25.50                 | 19.70                    | 20.00               |
|                  | 6       | 2437            | 22.71            | 16.85               | 17.00               | 22.59            | 16.95               | 17.00               | 25.60                 | 19.82                    | 20.00               |
|                  | 11      | 2462            | 22.70            | 16.71               | 17.00               | 22.85            | 16.84               | 17.00               | 25.70                 | 19.69                    | 20.00               |
|                  | 12      | 2467            | 19.27            | 14.26               | 14.50               | 20.11            | 14.37               | 14.50               | 22.70                 | 17.23                    | 17.50               |
|                  | 13      | 2472            | 17.15            | 11.17               | 11.50               | 18.02            | 11.29               | 11.50               | 20.60                 | 14.15                    | 14.50               |
| 802.11n HT20     | 1       | 2412            | 22.79            | 16.62               | 17.00               | 23.92            | 16.45               | 17.00               | 26.40                 | 19.45                    | 20.00               |
|                  | 6       | 2437            | 22.64            | 16.54               | 17.00               | 22.89            | 16.72               | 17.00               | 25.70                 | 19.55                    | 20.00               |
|                  | 11      | 2462            | 22.32            | 16.58               | 17.00               | 23.01            | 16.66               | 17.00               | 25.60                 | 19.54                    | 20.00               |
|                  | 12      | 2467            | 18.78            | 13.57               | 14.00               | 19.54            | 13.74               | 14.00               | 22.10                 | 16.57                    | 17.00               |
|                  | 13      | 2472            | 15.21            | 9.22                | 9.50                | 15.63            | 9.41                | 9.50                | 18.40                 | 12.23                    | 12.50               |
| 802.11n HT40     | 3       | 2422            | 20.19            | 14.43               | 15.00               | 20.17            | 14.59               | 15.00               | 23.10                 | 17.43                    | 18.00               |
|                  | 6       | 2437            | 21.57            | 16.56               | 17.00               | 21.67            | 16.45               | 17.00               | 24.60                 | 19.42                    | 20.00               |
|                  | 9       | 2452            | 19.54            | 14.22               | 15.00               | 20.01            | 14.55               | 15.00               | 22.70                 | 17.30                    | 18.00               |
|                  | 10      | 2457            | 17.09            | 11.84               | 12.00               | 17.03            | 11.34               | 12.00               | 20.00                 | 14.51                    | 15.00               |
|                  | 11      | 2462            | 15.76            | 9.45                | 10.00               | 16.23            | 9.41                | 10.00               | 19.00                 | 12.35                    | 13.00               |
| 802.11ac VHT20   | 1       | 2412            | 23.08            | 16.74               | 17.00               | 23.26            | 16.84               | 17.00               | 26.10                 | 19.71                    | 20.00               |
|                  | 6       | 2437            | 22.77            | 16.87               | 17.00               | 23.09            | 16.93               | 17.00               | 25.90                 | 19.82                    | 20.00               |
|                  | 11      | 2462            | 22.35            | 16.79               | 17.00               | 23.18            | 16.96               | 17.00               | 25.70                 | 19.79                    | 20.00               |
|                  | 12      | 2467            | 18.80            | 13.73               | 14.00               | 19.62            | 13.87               | 14.00               | 22.20                 | 16.72                    | 17.00               |
|                  | 13      | 2472            | 15.30            | 9.34                | 9.50                | 15.76            | 9.44                | 9.50                | 18.50                 | 12.31                    | 12.50               |
| 802.11ac VHT40   | 3       | 2422            | 20.40            | 14.56               | 15.00               | 20.35            | 14.70               | 15.00               | 23.30                 | 17.55                    | 18.00               |
|                  | 6       | 2437            | 21.85            | 16.64               | 17.00               | 21.86            | 16.69               | 17.00               | 24.80                 | 19.58                    | 20.00               |
|                  | 9       | 2452            | 19.62            | 14.34               | 15.00               | 20.02            | 14.61               | 15.00               | 22.80                 | 17.39                    | 18.00               |
|                  | 10      | 2457            | 17.22            | 11.92               | 12.00               | 17.21            | 11.63               | 12.00               | 20.20                 | 14.69                    | 15.00               |
|                  | 11      | 2462            | 15.60            | 9.78                | 10.00               | 16.37            | 9.85                | 10.00               | 19.00                 | 12.73                    | 13.00               |
| 802.11ax HE20    | 1       | 2412            | 23.20            | 16.90               | 17.00               | 22.34            | 16.62               | 17.00               | 25.80                 | 19.68                    | 20.00               |
|                  | 6       | 2437            | 22.88            | 16.85               | 17.00               | 22.95            | 16.91               | 17.00               | 25.90                 | 19.80                    | 20.00               |
|                  | 11      | 2462            | 22.76            | 16.77               | 17.00               | 22.82            | 16.57               | 17.00               | 25.80                 | 19.59                    | 20.00               |
|                  | 12      | 2467            | 19.16            | 13.83               | 14.00               | 19.85            | 13.92               | 14.00               | 22.50                 | 16.79                    | 17.00               |
|                  | 13      | 2472            | 16.05            | 9.54                | 10.00               | 16.57            | 9.56                | 10.00               | 19.30                 | 12.46                    | 13.00               |
| 802.11ax HE40    | 3       | 2422            | 20.56            | 14.77               | 15.00               | 20.69            | 14.81               | 15.00               | 23.60                 | 17.71                    | 18.00               |
|                  | 6       | 2437            | 22.17            | 16.89               | 17.00               | 22.10            | 16.78               | 17.00               | 25.10                 | 19.75                    | 20.00               |
|                  | 9       | 2452            | 20.03            | 14.60               | 15.00               | 20.40            | 14.86               | 15.00               | 23.20                 | 17.65                    | 18.00               |
|                  | 10      | 2457            | 17.63            | 12.11               | 12.50               | 18.07            | 12.30               | 12.50               | 20.80                 | 15.12                    | 15.50               |
|                  | 11      | 2462            | 15.99            | 9.93                | 10.00               | 16.04            | 9.59                | 10.00               | 19.00                 | 12.68                    | 13.00               |

| WLAN 5.2 GHz Band |         |                 |                     |                     |                     |                     |                     |                     |
|-------------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Mode              | Channel | Frequency (MHz) | Main                |                     | Aux                 |                     | MIMO                |                     |
|                   |         |                 | Average Power (dBm) | Tune-Up Limit (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) |
| 802.11a           | 36      | 5180            | 15.72               | 16.00               | 15.89               | 16.00               | 18.72               | 19.00               |
|                   | 40      | 5200            | 15.78               | 16.00               | 15.58               | 16.00               | 18.60               | 19.00               |
|                   | 44      | 5220            | 15.81               | 16.00               | 15.98               | 16.00               | 18.81               | 19.00               |
|                   | 48      | 5240            | 15.76               | 16.00               | 15.92               | 16.00               | 18.76               | 19.00               |
| 802.11n HT20      | 36      | 5180            | 15.68               | 16.00               | 15.78               | 16.00               | 18.65               | 19.00               |
|                   | 40      | 5200            | 15.83               | 16.00               | 15.62               | 16.00               | 18.64               | 19.00               |
|                   | 44      | 5220            | 15.84               | 16.00               | 15.89               | 16.00               | 18.78               | 19.00               |
|                   | 48      | 5240            | 15.72               | 16.00               | 15.95               | 16.00               | 18.75               | 19.00               |
| 802.11n HT40      | 38      | 5190            | 15.67               | 16.00               | 15.97               | 16.00               | 18.74               | 19.00               |
|                   | 46      | 5230            | 15.64               | 16.00               | 15.82               | 16.00               | 18.65               | 19.00               |
| 802.11ac VHT20    | 36      | 5180            | 15.77               | 16.00               | 15.86               | 16.00               | 18.73               | 19.00               |
|                   | 40      | 5200            | 15.75               | 16.00               | 15.64               | 16.00               | 18.61               | 19.00               |
|                   | 44      | 5220            | 15.86               | 16.00               | 15.95               | 16.00               | 18.82               | 19.00               |
|                   | 48      | 5240            | 15.73               | 16.00               | 15.96               | 16.00               | 18.76               | 19.00               |
| 802.11ac VHT40    | 38      | 5190            | 15.72               | 16.00               | 15.95               | 16.00               | 18.75               | 19.00               |
|                   | 46      | 5230            | 15.65               | 16.00               | 15.78               | 16.00               | 18.63               | 19.00               |
| 802.11ac VHT80    | 42      | 5210            | 13.97               | 14.00               | 13.88               | 14.00               | 16.84               | 17.00               |
| 802.11ax HE20     | 36      | 5180            | 15.84               | 16.00               | 15.62               | 16.00               | 18.65               | 19.00               |
|                   | 40      | 5200            | 15.95               | 16.00               | 15.73               | 16.00               | 18.76               | 19.00               |
|                   | 44      | 5220            | 15.54               | 16.00               | 15.66               | 16.00               | 18.52               | 19.00               |
|                   | 48      | 5240            | 15.55               | 16.00               | 15.68               | 16.00               | 18.53               | 19.00               |
| 802.11ax HE40     | 38      | 5190            | 15.89               | 16.00               | 15.69               | 16.00               | 18.71               | 19.00               |
|                   | 46      | 5230            | 15.95               | 16.00               | 15.98               | 16.00               | 18.88               | 19.00               |
| 802.11ax HE80     | 42      | 5210            | 13.60               | 14.00               | 13.56               | 14.00               | 16.50               | 17.00               |

| WLAN 5.3 GHz Band |         |                 |                     |                     |                     |                     |                     |                     |
|-------------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Mode              | Channel | Frequency (MHz) | Main                |                     | Aux                 |                     | MIMO                |                     |
|                   |         |                 | Average Power (dBm) | Tune-Up Limit (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) |
| 802.11a           | 52      | 5260            | 15.66               | 16.00               | 15.59               | 16.00               | 17.63               | 19.00               |
|                   | 56      | 5280            | 15.69               | 16.00               | 15.67               | 16.00               | 17.69               | 19.00               |
|                   | 60      | 5300            | 15.63               | 16.00               | 15.75               | 16.00               | 17.70               | 19.00               |
|                   | 64      | 5320            | 15.67               | 16.00               | 15.91               | 16.00               | 17.80               | 19.00               |
| 802.11n HT20      | 52      | 5260            | 15.69               | 16.00               | 15.64               | 16.00               | 17.67               | 19.00               |
|                   | 56      | 5280            | 15.63               | 16.00               | 15.66               | 16.00               | 17.65               | 19.00               |
|                   | 60      | 5300            | 15.58               | 16.00               | 15.77               | 16.00               | 17.68               | 19.00               |
|                   | 64      | 5320            | 15.65               | 16.00               | 15.94               | 16.00               | 17.80               | 19.00               |
| 802.11n HT40      | 54      | 5270            | 15.96               | 16.00               | 15.92               | 16.00               | 17.95               | 19.00               |
|                   | 62      | 5310            | 15.61               | 16.00               | 15.74               | 16.00               | 17.68               | 19.00               |
| 802.11ac VHT20    | 52      | 5260            | 15.68               | 16.00               | 15.56               | 16.00               | 17.63               | 19.00               |
|                   | 56      | 5280            | 15.74               | 16.00               | 15.63               | 16.00               | 17.69               | 19.00               |
|                   | 60      | 5300            | 15.59               | 16.00               | 15.70               | 16.00               | 17.65               | 19.00               |
|                   | 64      | 5320            | 15.70               | 16.00               | 15.86               | 16.00               | 17.79               | 19.00               |
| 802.11ac VHT40    | 54      | 5270            | 15.92               | 16.00               | 15.88               | 16.00               | 17.91               | 19.00               |
|                   | 62      | 5310            | 15.64               | 16.00               | 15.82               | 16.00               | 17.74               | 19.00               |
| 802.11ac VHT80    | 58      | 5290            | 14.14               | 14.50               | 14.15               | 14.50               | 17.06               | 17.50               |
| 802.11ac VHT160   | 50      | 5250            | 13.14               | 13.50               | 13.31               | 13.50               | 16.14               | 16.50               |
| 802.11ax HE20     | 52      | 5260            | 15.82               | 16.00               | 15.70               | 16.00               | 17.77               | 19.00               |
|                   | 56      | 5280            | 15.79               | 16.00               | 15.83               | 16.00               | 17.82               | 19.00               |
|                   | 60      | 5300            | 15.76               | 16.00               | 15.86               | 16.00               | 17.82               | 19.00               |
|                   | 64      | 5320            | 15.78               | 16.00               | 15.56               | 16.00               | 17.68               | 19.00               |
| 802.11ax HE40     | 54      | 5270            | 15.64               | 16.00               | 15.57               | 16.00               | 17.61               | 19.00               |
|                   | 62      | 5310            | 15.76               | 16.00               | 15.84               | 16.00               | 17.81               | 19.00               |
| 802.11ax HE80     | 58      | 5290            | 14.18               | 14.50               | 14.32               | 14.50               | 17.17               | 17.50               |
| 802.11ax HE160    | 50      | 5250            | 13.24               | 13.50               | 13.48               | 13.50               | 16.28               | 16.50               |

| WLAN 5.6 GHz Band |         |                 |                     |                     |                     |                     |                     |                     |
|-------------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Mode              | Channel | Frequency (MHz) | Main                |                     | Aux                 |                     | MIMO                |                     |
|                   |         |                 | Average Power (dBm) | Tune-Up Limit (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) |
| 802.11a           | 100     | 5500            | 14.54               | 15.00               | 14.66               | 15.00               | 17.52               | 18.00               |
|                   | 116     | 5580            | 14.96               | 15.00               | 14.78               | 15.00               | 17.79               | 18.00               |
|                   | 124     | 5620            | 14.94               | 15.00               | 14.72               | 15.00               | 17.75               | 18.00               |
|                   | 132     | 5660            | 14.65               | 15.00               | 14.67               | 15.00               | 17.58               | 18.00               |
|                   | 140     | 5700            | 14.78               | 15.00               | 14.82               | 15.00               | 17.72               | 18.00               |
|                   | 144     | 5720            | 14.64               | 15.00               | 14.68               | 15.00               | 17.58               | 18.00               |
| 802.11n HT20      | 100     | 5500            | 14.58               | 15.00               | 14.69               | 15.00               | 17.55               | 18.00               |
|                   | 116     | 5580            | 14.92               | 15.00               | 14.76               | 15.00               | 17.76               | 18.00               |
|                   | 124     | 5620            | 14.97               | 15.00               | 14.78               | 15.00               | 17.79               | 18.00               |
|                   | 132     | 5660            | 14.68               | 15.00               | 14.65               | 15.00               | 17.58               | 18.00               |
|                   | 140     | 5700            | 14.83               | 15.00               | 14.86               | 15.00               | 17.76               | 18.00               |
|                   | 144     | 5720            | 14.61               | 15.00               | 14.64               | 15.00               | 17.54               | 18.00               |
| 802.11n HT40      | 102     | 5510            | 14.86               | 15.00               | 14.56               | 15.00               | 17.63               | 18.00               |
|                   | 110     | 5550            | 14.89               | 15.00               | 14.81               | 15.00               | 17.77               | 18.00               |
|                   | 126     | 5630            | 14.61               | 15.00               | 14.78               | 15.00               | 17.61               | 18.00               |
|                   | 134     | 5670            | 14.60               | 15.00               | 14.70               | 15.00               | 17.57               | 18.00               |
|                   | 142     | 5710            | 14.76               | 15.00               | 14.86               | 15.00               | 17.73               | 18.00               |
| 802.11ac VHT20    | 100     | 5500            | 14.59               | 15.00               | 14.60               | 15.00               | 17.51               | 18.00               |
|                   | 116     | 5580            | 14.89               | 15.00               | 14.82               | 15.00               | 17.77               | 18.00               |
|                   | 124     | 5620            | 14.90               | 15.00               | 14.77               | 15.00               | 17.75               | 18.00               |
|                   | 132     | 5660            | 14.68               | 15.00               | 14.70               | 15.00               | 17.61               | 18.00               |
|                   | 140     | 5700            | 14.71               | 15.00               | 14.79               | 15.00               | 17.67               | 18.00               |
|                   | 144     | 5720            | 14.62               | 15.00               | 14.65               | 15.00               | 17.55               | 18.00               |
| 802.11ac VHT40    | 102     | 5510            | 14.87               | 15.00               | 14.60               | 15.00               | 17.65               | 18.00               |
|                   | 110     | 5550            | 14.92               | 15.00               | 14.79               | 15.00               | 17.77               | 18.00               |
|                   | 126     | 5630            | 14.63               | 15.00               | 14.83               | 15.00               | 17.65               | 18.00               |
|                   | 134     | 5670            | 14.56               | 15.00               | 14.76               | 15.00               | 17.58               | 18.00               |
|                   | 142     | 5710            | 14.79               | 15.00               | 14.81               | 15.00               | 17.72               | 18.00               |
| 802.11ac VHT80    | 106     | 5530            | 14.92               | 15.00               | 14.97               | 15.00               | 17.86               | 18.00               |
|                   | 122     | 5610            | 14.87               | 15.00               | 14.89               | 15.00               | 17.80               | 18.00               |
|                   | 138     | 5690            | 14.65               | 15.00               | 14.76               | 15.00               | 17.62               | 18.00               |
| 802.11ac VHT160   | 114     | 5570            | 12.18               | 12.50               | 12.25               | 12.50               | 15.13               | 15.50               |
| 802.11ax HE20     | 100     | 5500            | 14.66               | 15.00               | 14.78               | 15.00               | 17.64               | 18.00               |
|                   | 116     | 5580            | 14.56               | 15.00               | 14.92               | 15.00               | 17.66               | 18.00               |
|                   | 124     | 5620            | 14.62               | 15.00               | 14.81               | 15.00               | 17.63               | 18.00               |
|                   | 132     | 5660            | 14.77               | 15.00               | 14.84               | 15.00               | 17.72               | 18.00               |
|                   | 140     | 5700            | 14.83               | 15.00               | 14.95               | 15.00               | 17.81               | 18.00               |
|                   | 144     | 5720            | 14.76               | 15.00               | 14.86               | 15.00               | 17.73               | 18.00               |
| 802.11ax HE40     | 102     | 5510            | 14.61               | 15.00               | 14.73               | 15.00               | 17.59               | 18.00               |
|                   | 110     | 5550            | 14.65               | 15.00               | 14.57               | 15.00               | 17.53               | 18.00               |
|                   | 126     | 5630            | 14.87               | 15.00               | 14.98               | 15.00               | 17.84               | 18.00               |
|                   | 134     | 5670            | 14.82               | 15.00               | 14.83               | 15.00               | 17.74               | 18.00               |
|                   | 142     | 5710            | 14.97               | 15.00               | 14.59               | 15.00               | 17.70               | 18.00               |
| 802.11ax HE80     | 106     | 5530            | 14.96               | 15.00               | 14.69               | 15.00               | 17.74               | 18.00               |
|                   | 122     | 5610            | 14.64               | 15.00               | 14.63               | 15.00               | 17.55               | 18.00               |
|                   | 138     | 5690            | 14.76               | 15.00               | 14.93               | 15.00               | 17.76               | 18.00               |
| 802.11ax HE160    | 114     | 5570            | 12.38               | 12.50               | 12.34               | 12.50               | 15.28               | 15.50               |

| WLAN 5.8 GHz Band |         |                 |                     |                     |                     |                     |                     |                     |
|-------------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Mode              | Channel | Frequency (MHz) | Main                |                     | Aux                 |                     | MIMO                |                     |
|                   |         |                 | Average Power (dBm) | Tune-Up Limit (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) | Average Power (dBm) | Tune-Up Limit (dBm) |
| 802.11a           | 149     | 5745            | 14.67               | 15.00               | 14.58               | 15.00               | 17.54               | 18.00               |
|                   | 157     | 5785            | 14.77               | 15.00               | 14.75               | 15.00               | 17.67               | 18.00               |
|                   | 165     | 5825            | 14.92               | 15.00               | 14.83               | 15.00               | 17.79               | 18.00               |
| 802.11n HT20      | 149     | 5745            | 14.73               | 15.00               | 14.63               | 15.00               | 17.60               | 18.00               |
|                   | 157     | 5785            | 14.75               | 15.00               | 14.69               | 15.00               | 17.63               | 18.00               |
|                   | 165     | 5825            | 14.96               | 15.00               | 14.77               | 15.00               | 17.78               | 18.00               |
| 802.11n HT40      | 151     | 5755            | 14.63               | 15.00               | 14.85               | 15.00               | 17.66               | 18.00               |
|                   | 159     | 5795            | 14.73               | 15.00               | 14.90               | 15.00               | 17.73               | 18.00               |
| 802.11ac VHT20    | 149     | 5745            | 14.70               | 15.00               | 14.56               | 15.00               | 17.55               | 18.00               |
|                   | 157     | 5785            | 14.84               | 15.00               | 14.74               | 15.00               | 17.71               | 18.00               |
|                   | 165     | 5825            | 14.89               | 15.00               | 14.86               | 15.00               | 17.79               | 18.00               |
| 802.11ac VHT40    | 151     | 5755            | 14.66               | 15.00               | 14.87               | 15.00               | 17.68               | 18.00               |
|                   | 159     | 5795            | 14.79               | 15.00               | 14.89               | 15.00               | 17.76               | 18.00               |
| 802.11ac VHT80    | 155     | 5775            | 14.70               | 15.00               | 14.98               | 15.00               | 17.76               | 18.00               |
| 802.11ax HE20     | 149     | 5745            | 14.95               | 15.00               | 14.75               | 15.00               | 17.77               | 18.00               |
|                   | 157     | 5785            | 14.81               | 15.00               | 14.89               | 15.00               | 17.77               | 18.00               |
|                   | 165     | 5825            | 14.88               | 15.00               | 14.93               | 15.00               | 17.82               | 18.00               |
| 802.11ax HE40     | 151     | 5755            | 14.93               | 15.00               | 14.60               | 15.00               | 17.68               | 18.00               |
|                   | 159     | 5795            | 14.56               | 15.00               | 14.63               | 15.00               | 17.51               | 18.00               |
| 802.11ax HE80     | 155     | 5775            | 14.81               | 15.00               | 14.68               | 15.00               | 17.66               | 18.00               |

| WLAN 6.2 GHz Band |         |                 |                     |               |                     |               |                          |               |
|-------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------------------|---------------|
| Mode              | Channel | Frequency (MHz) | Main                |               | Aux                 |               | MIMO                     |               |
|                   |         |                 | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) MIMO | Tune-Up Limit |
| 802.11a           | 1       | 5955            | 0.69                | 1.00          | 0.27                | 1.00          | 3.40                     | 4.00          |
|                   | 45      | 6175            | 0.21                | 1.00          | 0.74                | 1.00          | 3.50                     | 4.00          |
|                   | 93      | 6415            | 0.45                | 1.00          | 0.85                | 1.00          | 3.60                     | 4.00          |
| 802.11ax HE20     | 1       | 5955            | 0.89                | 1.00          | 0.74                | 1.00          | 3.80                     | 4.00          |
|                   | 45      | 6175            | 0.74                | 1.00          | 0.87                | 1.00          | 3.80                     | 4.00          |
|                   | 93      | 6415            | 0.56                | 1.00          | 0.56                | 1.00          | 3.50                     | 4.00          |
| 802.11ax HE40     | 3       | 5965            | 3.03                | 3.50          | 2.06                | 3.50          | 5.50                     | 6.50          |
|                   | 43      | 6165            | 3.40                | 3.50          | 3.22                | 3.50          | 6.30                     | 6.50          |
|                   | 91      | 6405            | 3.18                | 3.50          | 3.29                | 3.50          | 6.20                     | 6.50          |
| 802.11ax HE80     | 7       | 5985            | 6.87                | 7.00          | 5.97                | 7.00          | 9.40                     | 10.00         |
|                   | 39      | 6145            | 5.86                | 7.00          | 6.85                | 7.00          | 9.30                     | 10.00         |
|                   | 87      | 6385            | 6.62                | 7.00          | 6.58                | 7.00          | 9.60                     | 10.00         |
| 802.11ax HE160    | 15      | 6025            | 8.72                | 9.00          | 8.57                | 9.00          | 11.60                    | 12.00         |
|                   | 47      | 6185            | 8.95                | 9.00          | 8.87                | 9.00          | 11.90                    | 12.00         |
|                   | 79      | 6345            | 9.15                | 9.50          | 9.41                | 9.50          | 12.20                    | 12.50         |

| WLAN 6.5 GHz Band |         |                 |                     |               |                     |               |                          |               |
|-------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------------------|---------------|
| Mode              | Channel | Frequency (MHz) | Main                |               | Aux                 |               | MIMO                     |               |
|                   |         |                 | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) MIMO | Tune-Up Limit |
| 802.11a           | 97      | 6435            | 1.14                | 1.50          | 0.36                | 1.50          | 3.70                     | 4.50          |
|                   | 105     | 6475            | 0.70                | 1.50          | 1.16                | 1.50          | 3.90                     | 4.50          |
|                   | 113     | 6515            | 1.36                | 1.50          | 0.70                | 1.50          | 4.00                     | 4.50          |
| 802.11ax HE20     | 97      | 6435            | 1.30                | 1.50          | 1.26                | 1.50          | 4.20                     | 4.50          |
|                   | 105     | 6475            | 1.33                | 1.50          | 1.24                | 1.50          | 4.20                     | 4.50          |
|                   | 113     | 6515            | 1.47                | 1.50          | 1.07                | 1.50          | 4.20                     | 4.50          |
| 802.11ax HE40     | 99      | 6445            | 3.61                | 4.00          | 3.52                | 4.00          | 6.50                     | 7.00          |
|                   | 107     | 6485            | 3.73                | 4.00          | 3.70                | 4.00          | 6.70                     | 7.00          |
| 802.11ax HE80     | 103     | 6465            | 6.60                | 7.00          | 6.71                | 7.00          | 9.60                     | 10.00         |
| 802.11ax HE80     | 119     | 6545            | 6.53                | 7.00          | 6.54                | 7.00          | 9.50                     | 10.00         |
| 802.11ax HE160    | 111     | 6505            | 9.18                | 9.50          | 9.27                | 9.50          | 12.20                    | 12.50         |



| WLAN 6.7 GHz Band |         |                 |                     |               |                     |               |                          |               |
|-------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------------------|---------------|
| Mode              | Channel | Frequency (MHz) | Main                |               | Aux                 |               | MIMO                     |               |
|                   |         |                 | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) MIMO | Tune-Up Limit |
| 802.11a           | 117     | 6535            | 0.63                | 1.50          | 0.52                | 1.50          | 3.50                     | 4.50          |
|                   | 149     | 6695            | 0.95                | 1.50          | 0.50                | 1.50          | 3.70                     | 4.50          |
|                   | 181     | 6855            | 0.59                | 1.50          | 0.28                | 1.50          | 3.40                     | 4.50          |
| 802.11ax HE20     | 117     | 6535            | 1.17                | 1.50          | 0.64                | 1.50          | 3.90                     | 4.50          |
|                   | 149     | 6695            | 0.57                | 1.50          | 1.08                | 1.50          | 3.80                     | 4.50          |
|                   | 181     | 6855            | 0.74                | 1.50          | 0.97                | 1.50          | 3.80                     | 4.50          |
| 802.11ax HE40     | 115     | 6525            | 3.59                | 4.00          | 3.76                | 4.00          | 6.60                     | 7.00          |
|                   | 147     | 6685            | 3.35                | 4.00          | 3.19                | 4.00          | 6.20                     | 7.00          |
|                   | 179     | 6845            | 3.22                | 4.00          | 3.24                | 4.00          | 6.20                     | 7.00          |
| 802.11ax HE80     | 135     | 6625            | 6.80                | 7.00          | 6.58                | 7.00          | 9.70                     | 10.00         |
|                   | 151     | 6705            | 5.94                | 7.00          | 5.89                | 7.00          | 8.90                     | 10.00         |
|                   | 167     | 6785            | 6.22                | 7.00          | 5.78                | 7.00          | 9.00                     | 10.00         |
|                   | 183     | 6865            | 6.61                | 7.00          | 6.41                | 7.00          | 9.50                     | 10.00         |
| 802.11ax HE160    | 143     | 6665            | 8.65                | 9.00          | 8.02                | 9.00          | 11.30                    | 12.00         |
|                   | 175     | 6825            | 8.79                | 9.00          | 8.57                | 9.00          | 11.60                    | 12.00         |

| WLAN 7.0 GHz Band |         |                 |                     |               |                     |               |                          |               |
|-------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------------------|---------------|
| Mode              | Channel | Frequency (MHz) | Main                |               | Aux                 |               | MIMO                     |               |
|                   |         |                 | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) MIMO | Tune-Up Limit |
| 802.11a           | 185     | 6875            | 1.35                | 2.00          | 0.78                | 2.00          | 4.00                     | 4.90          |
|                   | 209     | 6995            | 0.88                | 2.00          | 0.68                | 2.00          | 3.70                     | 4.90          |
|                   | 233     | 7115            | 0.22                | 2.00          | 1.64                | 2.00          | 3.90                     | 4.90          |
| 802.11ax HE20     | 185     | 6875            | 1.52                | 2.00          | 1.79                | 2.00          | 4.60                     | 4.90          |
|                   | 209     | 6995            | 1.54                | 2.00          | 1.82                | 2.00          | 4.60                     | 4.90          |
|                   | 233     | 7115            | 1.33                | 2.00          | 1.76                | 2.00          | 4.50                     | 4.90          |
| 802.11ax HE40     | 187     | 6885            | 4.13                | 4.50          | 3.85                | 4.50          | 7.00                     | 7.50          |
|                   | 211     | 7005            | 3.39                | 4.50          | 4.20                | 4.50          | 6.80                     | 7.50          |
|                   | 227     | 7085            | 4.29                | 4.50          | 3.78                | 4.50          | 7.00                     | 7.50          |
| 802.11ax HE80     | 199     | 6945            | 6.78                | 7.50          | 6.85                | 7.50          | 9.80                     | 10.50         |
|                   | 215     | 7025            | 6.16                | 7.50          | 7.21                | 7.50          | 9.70                     | 10.50         |
| 802.11ax HE160    | 207     | 6985            | 9.16                | 9.50          | 9.17                | 9.50          | 12.10                    | 12.50         |

| Bluetooth BR / EDR |         |                 |                |                  |                     |                     |
|--------------------|---------|-----------------|----------------|------------------|---------------------|---------------------|
| Mode               | Channel | Frequency (MHz) | Modulation     | Aux              |                     |                     |
|                    |         |                 |                | Peak Power (dBm) | Average Power (dBm) | Tune-up Limit (dBm) |
| Bluetooth BR       | 0       | 2402            | GFSK           | 12.91            | 11.13               | 11.50               |
|                    | 39      | 2441            |                | 12.87            | 11.03               |                     |
|                    | 78      | 2480            |                | 12.78            | 11.02               |                     |
| Bluetooth EDR      | 0       | 2402            | $\pi/4$ -DQPSK | 12.70            | 8.33                | 8.50                |
|                    | 39      | 2441            |                | 12.75            | 8.35                |                     |
|                    | 78      | 2480            |                | 12.59            | 8.19                |                     |
| Bluetooth EDR      | 0       | 2402            | 8DPSK          | 12.89            | 8.35                | 8.50                |
|                    | 39      | 2441            |                | 12.92            | 8.37                |                     |
|                    | 78      | 2480            |                | 12.70            | 8.21                |                     |

| Bluetooth LE |         |                 |           |                  |                     |                     |
|--------------|---------|-----------------|-----------|------------------|---------------------|---------------------|
| Mode         | Channel | Frequency (MHz) | Data Rate | Aux              |                     |                     |
|              |         |                 |           | Peak Power (dBm) | Average Power (dBm) | Tune-up Limit (dBm) |
| Bluetooth LE | 0       | 2402            | 1Mbps     | 12.26            | 11.09               | 11.50               |
|              | 19      | 2440            |           | 12.09            | 11.04               |                     |
|              | 39      | 2480            |           | 11.95            | 10.91               |                     |
|              | 0       | 2402            | 2Mbps     | 13.28            | 11.11               | 11.50               |
|              | 19      | 2440            |           | 13.13            | 11.09               |                     |
|              | 39      | 2480            |           | 12.93            | 11.02               |                     |