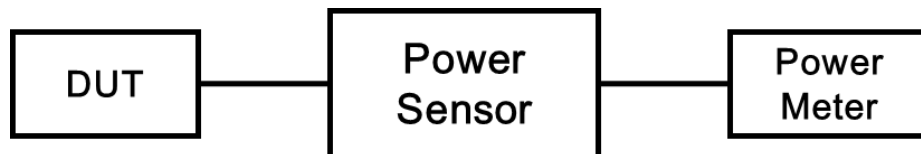


## Appendix A - Conducted Power Measurements

### 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 2.4 GHz  |         |                 |                  |                     |                     |                  |                     |                     |                  |                     |                     |
|---------------|---------|-----------------|------------------|---------------------|---------------------|------------------|---------------------|---------------------|------------------|---------------------|---------------------|
| 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) | Average Power (dBm) | Tune-Up Limit (dBm) |
| 802.11b       | 1       | 2412            | 21.16            | 17.77               | 18.00               | 21.35            | 17.98               | 18.00               | 24.17            | 20.57               | 21.00               |
|               | 6       | 2437            | 21.04            | 17.73               | 18.00               | 21.22            | 17.95               | 18.00               | 24.05            | 20.69               | 21.00               |
|               | 11      | 2462            | 20.88            | 17.48               | 17.50               | 20.84            | 17.47               | 17.50               | 23.78            | 20.06               | 20.50               |
|               | 12      | 2467            | 17.85            | 14.68               | 15.00               | 18.19            | 14.93               | 15.00               | 20.94            | 17.49               | 18.00               |
|               | 13      | 2472            | 16.34            | 13.25               | 13.50               | 16.39            | 13.19               | 13.50               | 19.28            | 16.05               | 16.50               |
| 802.11g       | 1       | 2412            | 23.12            | 17.20               | 18.00               | 23.35            | 17.83               | 18.00               | 26.15            | 20.11               | 21.00               |
|               | 6       | 2437            | 23.42            | 17.88               | 18.00               | 23.19            | 17.94               | 18.00               | 26.22            | 20.77               | 21.00               |
|               | 11      | 2462            | 22.86            | 17.11               | 18.00               | 23.30            | 17.96               | 18.00               | 26.00            | 20.45               | 21.00               |
|               | 12      | 2467            | 19.19            | 13.54               | 14.50               | 20.04            | 14.44               | 14.50               | 22.55            | 16.59               | 17.50               |
|               | 13      | 2472            | 17.10            | 11.42               | 11.50               | 18.04            | 11.05               | 11.50               | 20.51            | 13.85               | 14.50               |
| 802.11n HT20  | 1       | 2412            | 23.52            | 17.19               | 17.50               | 23.46            | 17.42               | 17.50               | 26.41            | 20.20               | 20.50               |
|               | 6       | 2437            | 23.45            | 17.92               | 18.00               | 23.17            | 17.92               | 18.00               | 26.23            | 20.49               | 21.00               |
|               | 11      | 2462            | 22.28            | 16.71               | 17.00               | 22.37            | 16.88               | 17.00               | 25.24            | 19.65               | 20.00               |
|               | 12      | 2467            | 19.33            | 13.64               | 14.00               | 19.56            | 13.81               | 14.00               | 22.36            | 16.47               | 17.00               |
|               | 13      | 2472            | 15.61            | 9.20                | 9.50                | 16.12            | 9.42                | 9.50                | 18.79            | 12.02               | 12.50               |
| 802.11n HT40  | 3       | 2422            | 21.21            | 14.95               | 15.00               | 20.87            | 14.62               | 15.00               | 23.96            | 17.59               | 18.00               |
|               | 6       | 2437            | 23.67            | 17.93               | 18.00               | 23.15            | 17.63               | 18.00               | 26.33            | 20.66               | 21.00               |
|               | 9       | 2452            | 20.83            | 14.70               | 15.00               | 20.58            | 14.53               | 15.00               | 23.62            | 17.39               | 18.00               |
|               | 10      | 2457            | 18.03            | 11.58               | 12.00               | 18.39            | 11.98               | 12.00               | 21.13            | 14.54               | 15.00               |
|               | 11      | 2462            | 16.82            | 9.85                | 10.00               | 16.35            | 9.63                | 10.00               | 19.51            | 12.50               | 13.00               |
| 802.11ax HE20 | 1       | 2412            | 23.69            | 16.82               | 17.50               | 22.66            | 17.06               | 17.50               | 26.12            | 19.70               | 20.50               |
|               | 6       | 2437            | 23.55            | 17.86               | 18.00               | 23.33            | 17.98               | 18.00               | 26.36            | 20.82               | 21.00               |
|               | 11      | 2462            | 22.52            | 16.67               | 17.50               | 22.61            | 16.98               | 17.50               | 25.48            | 19.44               | 20.50               |
|               | 12      | 2467            | 19.22            | 13.21               | 14.00               | 19.92            | 13.93               | 14.00               | 22.50            | 16.13               | 17.00               |
|               | 13      | 2472            | 15.62            | 8.87                | 10.00               | 16.56            | 9.62                | 10.00               | 19.03            | 11.88               | 13.00               |
| 802.11ax HE40 | 3       | 2422            | 20.47            | 13.99               | 15.00               | 21.07            | 14.76               | 15.00               | 23.70            | 17.15               | 18.00               |
|               | 6       | 2437            | 22.96            | 17.03               | 18.00               | 23.42            | 17.75               | 18.00               | 26.11            | 20.21               | 21.00               |
|               | 9       | 2452            | 20.06            | 13.92               | 15.00               | 20.80            | 14.64               | 15.00               | 23.36            | 16.97               | 18.00               |
|               | 10      | 2457            | 17.78            | 11.34               | 12.50               | 18.69            | 12.18               | 12.50               | 21.17            | 14.35               | 15.50               |
|               | 11      | 2462            | 16.03            | 8.98                | 10.00               | 16.57            | 9.77                | 10.00               | 19.22            | 12.15               | 13.00               |

| WLAN 5.2 GHz   |         |                 |                     |                     |                     |                     |                     |                     |
|----------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 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            | 10.92               | 11.00               | 10.92               | 11.00               | 13.47               | 14.00               |
|                | 40      | 5200            | 10.94               | 11.00               | 10.98               | 11.00               | 13.49               | 14.00               |
|                | 44      | 5220            | 10.94               | 11.00               | 10.78               | 11.00               | 13.75               | 14.00               |
|                | 48      | 5240            | 10.96               | 11.00               | 10.77               | 11.00               | 13.43               | 14.00               |
| 802.11n HT20   | 36      | 5180            | 10.92               | 11.00               | 10.80               | 11.00               | 13.47               | 14.00               |
|                | 40      | 5200            | 10.96               | 11.00               | 10.83               | 11.00               | 13.65               | 14.00               |
|                | 44      | 5220            | 10.93               | 11.00               | 10.72               | 11.00               | 13.38               | 14.00               |
|                | 48      | 5240            | 10.86               | 11.00               | 10.70               | 11.00               | 13.33               | 14.00               |
| 802.11n HT40   | 38      | 5190            | 10.92               | 11.00               | 10.74               | 11.00               | 13.39               | 14.00               |
|                | 46      | 5230            | 10.94               | 11.00               | 10.81               | 11.00               | 13.42               | 14.00               |
| 802.11ac VHT20 | 36      | 5180            | 10.88               | 11.00               | 10.82               | 11.00               | 13.52               | 14.00               |
|                | 40      | 5200            | 10.91               | 11.00               | 10.89               | 11.00               | 13.44               | 14.00               |
|                | 44      | 5220            | 10.92               | 11.00               | 10.75               | 11.00               | 13.59               | 14.00               |
|                | 48      | 5240            | 10.91               | 11.00               | 10.72               | 11.00               | 13.55               | 14.00               |
| 802.11ac VHT40 | 38      | 5190            | 10.95               | 11.00               | 10.71               | 11.00               | 13.57               | 14.00               |
|                | 46      | 5230            | 10.98               | 11.00               | 10.77               | 11.00               | 13.46               | 14.00               |
| 802.11ac VHT80 | 42      | 5210            | 10.96               | 11.00               | 10.77               | 11.00               | 13.59               | 14.00               |
| 802.11ax HE20  | 36      | 5180            | 10.63               | 11.00               | 10.98               | 11.00               | 13.34               | 14.00               |
|                | 40      | 5200            | 10.66               | 11.00               | 10.85               | 11.00               | 13.44               | 14.00               |
|                | 44      | 5220            | 10.63               | 11.00               | 10.88               | 11.00               | 13.38               | 14.00               |
|                | 48      | 5240            | 10.62               | 11.00               | 10.93               | 11.00               | 13.31               | 14.00               |
| 802.11ax HE40  | 38      | 5190            | 10.69               | 11.00               | 10.83               | 11.00               | 13.56               | 14.00               |
|                | 46      | 5230            | 10.65               | 11.00               | 10.98               | 11.00               | 13.50               | 14.00               |
| 802.11ax HE80  | 42      | 5210            | 10.62               | 11.00               | 10.76               | 11.00               | 13.38               | 14.00               |

| WLAN 5.3 GHz    |         |                 |                     |                     |                     |                     |                     |                     |
|-----------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 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            | 10.80               | 11.00               | 10.87               | 11.00               | 13.65               | 14.00               |
|                 | 56      | 5280            | 10.64               | 11.00               | 10.98               | 11.00               | 13.65               | 14.00               |
|                 | 60      | 5300            | 10.75               | 11.00               | 10.84               | 11.00               | 13.40               | 14.00               |
|                 | 64      | 5320            | 10.63               | 11.00               | 10.93               | 11.00               | 13.42               | 14.00               |
| 802.11n HT20    | 52      | 5260            | 10.78               | 11.00               | 10.86               | 11.00               | 13.49               | 14.00               |
|                 | 56      | 5280            | 10.63               | 11.00               | 10.97               | 11.00               | 13.38               | 14.00               |
|                 | 60      | 5300            | 10.72               | 11.00               | 10.82               | 11.00               | 13.44               | 14.00               |
|                 | 64      | 5320            | 10.55               | 11.00               | 10.94               | 11.00               | 13.46               | 14.00               |
| 802.11n HT40    | 54      | 5270            | 10.92               | 11.00               | 10.62               | 11.00               | 13.58               | 14.00               |
|                 | 62      | 5310            | 10.96               | 11.00               | 10.92               | 11.00               | 13.77               | 14.00               |
| 802.11ac VHT20  | 52      | 5260            | 10.77               | 11.00               | 10.82               | 11.00               | 13.52               | 14.00               |
|                 | 56      | 5280            | 10.63               | 11.00               | 10.99               | 11.00               | 13.63               | 14.00               |
|                 | 60      | 5300            | 10.76               | 11.00               | 10.84               | 11.00               | 13.41               | 14.00               |
|                 | 64      | 5320            | 10.65               | 11.00               | 10.96               | 11.00               | 13.57               | 14.00               |
| 802.11ac VHT40  | 54      | 5270            | 10.82               | 11.00               | 10.86               | 11.00               | 13.65               | 14.00               |
|                 | 62      | 5310            | 10.93               | 11.00               | 10.70               | 11.00               | 13.63               | 14.00               |
| 802.11ac VHT80  | 58      | 5290            | 10.98               | 11.00               | 10.97               | 11.00               | 13.55               | 14.00               |
| 802.11ac VHT160 | 50      | 5250            | 10.60               | 11.00               | 10.61               | 11.00               | 13.43               | 14.00               |
| 802.11ax HE20   | 52      | 5260            | 10.88               | 11.00               | 10.62               | 11.00               | 13.57               | 14.00               |
|                 | 56      | 5280            | 10.64               | 11.00               | 10.77               | 11.00               | 13.51               | 14.00               |
|                 | 60      | 5300            | 10.87               | 11.00               | 10.55               | 11.00               | 13.56               | 14.00               |
|                 | 64      | 5320            | 10.62               | 11.00               | 10.58               | 11.00               | 13.38               | 14.00               |
| 802.11ax HE40   | 54      | 5270            | 10.62               | 11.00               | 10.65               | 11.00               | 13.30               | 14.00               |
|                 | 62      | 5310            | 10.80               | 11.00               | 10.86               | 11.00               | 13.63               | 14.00               |
| 802.11ax HE80   | 58      | 5290            | 10.92               | 11.00               | 10.79               | 11.00               | 13.69               | 14.00               |
| 802.11ax HE160  | 50      | 5250            | 10.77               | 11.00               | 10.84               | 11.00               | 13.61               | 14.00               |

| WLAN 5.6 GHz    |         |                 |                     |                     |                     |                     |                     |                     |
|-----------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 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            | 10.98               | 11.00               | 10.66               | 11.00               | 13.60               | 14.00               |
|                 | 116     | 5580            | 10.79               | 11.00               | 10.85               | 11.00               | 13.46               | 14.00               |
|                 | 124     | 5620            | 10.69               | 11.00               | 10.85               | 11.00               | 13.32               | 14.00               |
|                 | 132     | 5660            | 10.67               | 11.00               | 10.94               | 11.00               | 13.41               | 14.00               |
|                 | 140     | 5700            | 10.69               | 11.00               | 10.76               | 11.00               | 13.29               | 14.00               |
|                 | 144     | 5720            | 10.63               | 11.00               | 10.95               | 11.00               | 13.58               | 14.00               |
| 802.11n HT20    | 100     | 5500            | 10.72               | 11.00               | 10.62               | 11.00               | 13.44               | 14.00               |
|                 | 116     | 5580            | 10.62               | 11.00               | 10.85               | 11.00               | 13.38               | 14.00               |
|                 | 124     | 5620            | 10.53               | 11.00               | 10.80               | 11.00               | 13.55               | 14.00               |
|                 | 132     | 5660            | 10.62               | 11.00               | 10.91               | 11.00               | 13.32               | 14.00               |
|                 | 140     | 5700            | 10.63               | 11.00               | 10.73               | 11.00               | 13.56               | 14.00               |
|                 | 144     | 5720            | 10.59               | 11.00               | 10.93               | 11.00               | 13.48               | 14.00               |
| 802.11n HT40    | 102     | 5510            | 10.86               | 11.00               | 10.64               | 11.00               | 13.44               | 14.00               |
|                 | 110     | 5550            | 10.88               | 11.00               | 10.79               | 11.00               | 13.70               | 14.00               |
|                 | 126     | 5630            | 10.94               | 11.00               | 10.86               | 11.00               | 13.50               | 14.00               |
|                 | 134     | 5670            | 10.82               | 11.00               | 10.73               | 11.00               | 13.45               | 14.00               |
|                 | 142     | 5710            | 10.93               | 11.00               | 10.96               | 11.00               | 13.74               | 14.00               |
| 802.11ac VHT20  | 100     | 5500            | 10.68               | 11.00               | 10.77               | 11.00               | 13.45               | 14.00               |
|                 | 116     | 5580            | 10.59               | 11.00               | 10.80               | 11.00               | 13.48               | 14.00               |
|                 | 124     | 5620            | 10.57               | 11.00               | 10.79               | 11.00               | 13.53               | 14.00               |
|                 | 132     | 5660            | 10.59               | 11.00               | 10.89               | 11.00               | 13.63               | 14.00               |
|                 | 140     | 5700            | 10.55               | 11.00               | 10.73               | 11.00               | 13.34               | 14.00               |
|                 | 144     | 5720            | 10.54               | 11.00               | 10.80               | 11.00               | 13.34               | 14.00               |
| 802.11ac VHT40  | 102     | 5510            | 10.80               | 11.00               | 10.81               | 11.00               | 13.42               | 14.00               |
|                 | 110     | 5550            | 10.79               | 11.00               | 10.92               | 11.00               | 13.68               | 14.00               |
|                 | 126     | 5630            | 10.73               | 11.00               | 10.98               | 11.00               | 13.71               | 14.00               |
|                 | 134     | 5670            | 10.73               | 11.00               | 10.87               | 11.00               | 13.70               | 14.00               |
|                 | 142     | 5710            | 10.72               | 11.00               | 10.60               | 11.00               | 13.40               | 14.00               |
| 802.11ac VHT80  | 106     | 5530            | 10.97               | 11.00               | 10.92               | 11.00               | 13.75               | 14.00               |
|                 | 122     | 5610            | 10.84               | 11.00               | 10.63               | 11.00               | 13.40               | 14.00               |
|                 | 138     | 5690            | 10.93               | 11.00               | 10.66               | 11.00               | 13.50               | 14.00               |
| 802.11ac VHT160 | 114     | 5570            | 10.76               | 11.00               | 10.62               | 11.00               | 13.54               | 14.00               |
| 802.11ax HE20   | 100     | 5500            | 10.85               | 11.00               | 10.70               | 11.00               | 13.30               | 14.00               |
|                 | 116     | 5580            | 10.76               | 11.00               | 10.98               | 11.00               | 13.41               | 14.00               |
|                 | 124     | 5620            | 10.63               | 11.00               | 10.95               | 11.00               | 13.38               | 14.00               |
|                 | 132     | 5660            | 10.77               | 11.00               | 10.66               | 11.00               | 13.53               | 14.00               |
|                 | 140     | 5700            | 10.78               | 11.00               | 10.83               | 11.00               | 13.47               | 14.00               |
|                 | 144     | 5720            | 10.75               | 11.00               | 10.62               | 11.00               | 13.33               | 14.00               |
| 802.11ax HE40   | 102     | 5510            | 10.80               | 11.00               | 10.98               | 11.00               | 13.73               | 14.00               |
|                 | 110     | 5550            | 10.74               | 11.00               | 10.99               | 11.00               | 13.58               | 14.00               |
|                 | 126     | 5630            | 10.70               | 11.00               | 10.92               | 11.00               | 13.49               | 14.00               |
|                 | 134     | 5670            | 10.73               | 11.00               | 10.74               | 11.00               | 13.54               | 14.00               |
|                 | 142     | 5710            | 10.74               | 11.00               | 10.72               | 11.00               | 13.39               | 14.00               |
| 802.11ax HE80   | 106     | 5530            | 10.57               | 11.00               | 10.73               | 11.00               | 13.49               | 14.00               |
|                 | 122     | 5610            | 10.96               | 11.00               | 10.83               | 11.00               | 13.68               | 14.00               |
|                 | 138     | 5690            | 10.98               | 11.00               | 10.53               | 11.00               | 13.55               | 14.00               |
| 802.11ax HE160  | 114     | 5570            | 10.93               | 11.00               | 10.94               | 11.00               | 13.53               | 14.00               |

| WLAN 5.8 GHz   |         |                 |                     |                     |                     |                     |                     |                     |
|----------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 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            | 10.83               | 11.00               | 10.82               | 11.00               | 13.49               | 14.00               |
|                | 157     | 5785            | 10.83               | 11.00               | 10.92               | 11.00               | 13.72               | 14.00               |
|                | 165     | 5825            | 10.93               | 11.00               | 10.73               | 11.00               | 13.38               | 14.00               |
| 802.11n HT20   | 149     | 5745            | 10.82               | 11.00               | 10.79               | 11.00               | 13.51               | 14.00               |
|                | 157     | 5785            | 10.81               | 11.00               | 10.92               | 11.00               | 13.40               | 14.00               |
|                | 165     | 5825            | 10.92               | 11.00               | 10.67               | 11.00               | 13.38               | 14.00               |
| 802.11n HT40   | 151     | 5755            | 10.93               | 11.00               | 10.98               | 11.00               | 13.81               | 14.00               |
|                | 159     | 5795            | 10.62               | 11.00               | 10.93               | 11.00               | 13.64               | 14.00               |
| 802.11ac VHT20 | 149     | 5745            | 10.80               | 11.00               | 10.83               | 11.00               | 13.58               | 14.00               |
|                | 157     | 5785            | 10.83               | 11.00               | 10.95               | 11.00               | 13.68               | 14.00               |
|                | 165     | 5825            | 10.93               | 11.00               | 10.71               | 11.00               | 13.54               | 14.00               |
| 802.11ac VHT40 | 151     | 5755            | 10.76               | 11.00               | 10.82               | 11.00               | 13.68               | 14.00               |
|                | 159     | 5795            | 10.59               | 11.00               | 10.92               | 11.00               | 13.57               | 14.00               |
| 802.11ac VHT80 | 155     | 5775            | 10.96               | 11.00               | 10.70               | 11.00               | 13.50               | 14.00               |
| 802.11ax HE20  | 149     | 5745            | 10.86               | 11.00               | 10.89               | 11.00               | 13.61               | 14.00               |
|                | 157     | 5785            | 10.88               | 11.00               | 10.98               | 11.00               | 13.60               | 14.00               |
|                | 165     | 5825            | 10.96               | 11.00               | 10.82               | 11.00               | 13.48               | 14.00               |
| 802.11ax HE40  | 151     | 5755            | 10.99               | 11.00               | 10.95               | 11.00               | 13.52               | 14.00               |
|                | 159     | 5795            | 10.70               | 11.00               | 10.69               | 11.00               | 13.30               | 14.00               |
| 802.11ax HE80  | 155     | 5775            | 10.79               | 11.00               | 10.61               | 11.00               | 13.43               | 14.00               |

| WLAN 6.2 GHz   |         |                 |                     |                     |                     |                     |                     |                     |
|----------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 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        | 1       | 5955            | 0.85                | 1.00                | 0.53                | 1.00                | 3.28                | 4.00                |
|                | 45      | 6175            | 0.43                | 1.00                | 0.81                | 1.00                | 3.49                | 4.00                |
|                | 93      | 6415            | 0.57                | 1.00                | 0.77                | 1.00                | 3.51                | 4.00                |
| 802.11ax HE20  | 1       | 5955            | 0.73                | 1.00                | 0.78                | 1.00                | 3.58                | 4.00                |
|                | 45      | 6175            | 0.91                | 1.00                | 0.82                | 1.00                | 3.67                | 4.00                |
|                | 93      | 6415            | 0.52                | 1.00                | 0.81                | 1.00                | 3.25                | 4.00                |
| 802.11ax HE40  | 3       | 5965            | 3.21                | 3.50                | 2.42                | 3.50                | 5.54                | 6.50                |
|                | 43      | 6165            | 3.11                | 3.50                | 3.18                | 3.50                | 6.01                | 6.50                |
|                | 91      | 6405            | 3.02                | 3.50                | 3.08                | 3.50                | 5.90                | 6.50                |
| 802.11ax HE80  | 7       | 5985            | 6.62                | 7.00                | 6.09                | 7.00                | 8.92                | 10.00               |
|                | 39      | 6145            | 6.17                | 7.00                | 6.44                | 7.00                | 8.88                | 10.00               |
|                | 87      | 6385            | 6.56                | 7.00                | 6.63                | 7.00                | 9.13                | 10.00               |
| 802.11ax HE160 | 15      | 6025            | 8.60                | 9.00                | 8.86                | 9.00                | 11.41               | 12.00               |
|                | 47      | 6185            | 8.58                | 9.00                | 8.74                | 9.00                | 11.39               | 12.00               |
|                | 79      | 6345            | 9.31                | 9.50                | 9.17                | 9.50                | 11.86               | 12.50               |

| WLAN 6.5 GHz   |         |                 |                     |               |                     |               |                     |                     |
|----------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------------|
| Mode           | Channel | Frequency (MHz) | Main                |               | Aux                 |               | MIMO                |                     |
|                |         |                 | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average Power (dBm) | Tune-Up Limit (dBm) |
| 802.11a        | 97      | 6435            | 2.07                | 2.50          | 0.41                | 1.50          | 3.97                | 5.00                |
|                | 105     | 6475            | 0.97                | 2.50          | 1.26                | 1.50          | 3.98                | 5.00                |
|                | 113     | 6515            | 1.65                | 2.50          | 0.77                | 1.50          | 4.00                | 5.00                |
| 802.11ax HE20  | 97      | 6435            | 1.42                | 1.50          | 1.42                | 1.50          | 4.27                | 4.50                |
|                | 105     | 6475            | 1.33                | 1.50          | 1.45                | 1.50          | 4.28                | 4.50                |
|                | 113     | 6515            | 1.45                | 1.50          | 1.39                | 1.50          | 3.97                | 4.50                |
| 802.11ax HE40  | 99      | 6445            | 3.87                | 4.00          | 3.66                | 4.00          | 6.61                | 7.00                |
|                | 107     | 6485            | 3.72                | 4.00          | 3.69                | 4.00          | 6.33                | 7.00                |
| 802.11ax HE80  | 103     | 6465            | 6.85                | 7.00          | 6.84                | 7.00          | 9.71                | 10.00               |
| 802.11ax HE80  | 119     | 6545            | 6.73                | 7.00          | 6.79                | 7.00          | 9.66                | 10.00               |
| 802.11ax HE160 | 111     | 6505            | 9.22                | 9.50          | 9.21                | 9.50          | 11.91               | 12.50               |

| WLAN 6.7 GHz   |         |                 |                     |                     |                     |                     |                     |                     |
|----------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 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        | 117     | 6535            | 0.82                | 1.50                | 0.76                | 1.00                | 3.54                | 4.20                |
|                | 149     | 6695            | 0.94                | 1.50                | 0.75                | 1.00                | 3.58                | 4.20                |
|                | 181     | 6855            | 0.61                | 1.50                | 0.50                | 1.00                | 3.11                | 4.20                |
| 802.11ax HE20  | 117     | 6535            | 1.33                | 1.50                | 0.89                | 1.50                | 3.74                | 4.50                |
|                | 149     | 6695            | 0.81                | 1.50                | 1.25                | 1.50                | 3.83                | 4.50                |
|                | 181     | 6855            | 0.92                | 1.50                | 1.05                | 1.50                | 3.56                | 4.50                |
| 802.11ax HE40  | 115     | 6525            | 3.94                | 4.00                | 3.68                | 4.00                | 6.42                | 7.00                |
|                | 147     | 6685            | 3.45                | 4.00                | 3.56                | 4.00                | 6.36                | 7.00                |
|                | 179     | 6845            | 3.29                | 4.00                | 3.33                | 4.00                | 5.85                | 7.00                |
| 802.11ac VHT80 | 135     | 6625            | 6.84                | 7.00                | 6.84                | 7.00                | 9.53                | 10.00               |
|                | 151     | 6705            | 6.15                | 7.00                | 6.12                | 7.00                | 9.02                | 10.00               |
|                | 167     | 6785            | 6.42                | 7.00                | 6.11                | 7.00                | 8.84                | 10.00               |
|                | 183     | 6865            | 6.79                | 7.00                | 6.29                | 7.00                | 9.37                | 10.00               |
| 802.11ax HE160 | 143     | 6665            | 8.81                | 9.00                | 8.84                | 9.00                | 11.58               | 12.00               |
|                | 175     | 6825            | 8.61                | 9.00                | 8.69                | 9.00                | 11.54               | 12.00               |

| WLAN 7.0 GHz   |         |                 |                     |                     |                     |                     |                     |                     |
|----------------|---------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 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        | 185     | 6875            | 1.34                | 1.50                | 0.87                | 2.00                | 3.90                | 4.70                |
|                | 209     | 6995            | 1.31                | 1.50                | 1.17                | 2.00                | 3.82                | 4.70                |
|                | 233     | 7115            | 0.63                | 1.50                | 1.68                | 2.00                | 3.98                | 4.70                |
| 802.11ax HE20  | 185     | 6875            | 1.69                | 2.00                | 1.87                | 2.00                | 4.60                | 4.90                |
|                | 209     | 6995            | 1.94                | 2.00                | 1.82                | 2.00                | 4.44                | 4.90                |
|                | 233     | 7115            | 1.41                | 2.00                | 1.91                | 2.00                | 4.50                | 4.90                |
| 802.11ax HE40  | 187     | 6885            | 4.12                | 4.50                | 3.82                | 4.50                | 6.56                | 7.50                |
|                | 211     | 7005            | 3.44                | 4.50                | 4.38                | 4.50                | 6.63                | 7.50                |
|                | 227     | 7085            | 4.35                | 4.50                | 4.41                | 4.50                | 7.04                | 7.50                |
| 802.11ax HE80  | 199     | 6945            | 7.12                | 7.50                | 7.12                | 7.50                | 9.79                | 10.50               |
|                | 215     | 7025            | 6.28                | 7.50                | 7.42                | 7.50                | 9.44                | 10.50               |
| 802.11ax HE160 | 207     | 6985            | 9.39                | 9.50                | 9.34                | 9.50                | 12.16               | 12.50               |

| Bluetooth BR / EDR           |         |                 |                  |                     |               |
|------------------------------|---------|-----------------|------------------|---------------------|---------------|
| Band                         | Channel | Frequency (MHz) | Aux              |                     |               |
|                              |         |                 | Peak power (dBm) | Average power (dBm) | Tune up Limit |
| Bluetooth BR GFSK            | 0       | 2402            | 12.38            | 10.69               | 11.50         |
|                              | 39      | 2441            | 12.23            | 10.55               | 11.50         |
|                              | 78      | 2480            | 12.30            | 10.51               | 11.50         |
| Bluetooth EDR $\pi/4$ -DQPSK | 0       | 2402            | 12.32            | 7.84                | 8.50          |
|                              | 39      | 2441            | 12.23            | 7.70                | 8.50          |
|                              | 78      | 2480            | 12.06            | 7.41                | 8.50          |
| Bluetooth EDR 8DPSK          | 0       | 2402            | 12.35            | 7.80                | 8.50          |
|                              | 39      | 2441            | 12.28            | 7.65                | 8.50          |
|                              | 78      | 2480            | 12.10            | 7.38                | 8.50          |

| Bluetooth LE    |         |                 |                  |                     |               |
|-----------------|---------|-----------------|------------------|---------------------|---------------|
| Band            | Channel | Frequency (MHz) | Aux              |                     |               |
|                 |         |                 | Peak power (dBm) | Average power (dBm) | Tune up Limit |
| Bluetooth LE 1M | 0       | 2402            | 10.99            | 9.84                | 11.50         |
|                 | 19      | 2440            | 10.86            | 9.74                | 11.50         |
|                 | 39      | 2480            | 10.81            | 9.52                | 11.50         |
| Bluetooth LE 2M | 1       | 2404            | 12.28            | 10.64               | 11.50         |
|                 | 19      | 2440            | 12.33            | 10.51               | 11.50         |
|                 | 38      | 2478            | 12.36            | 10.46               | 11.50         |