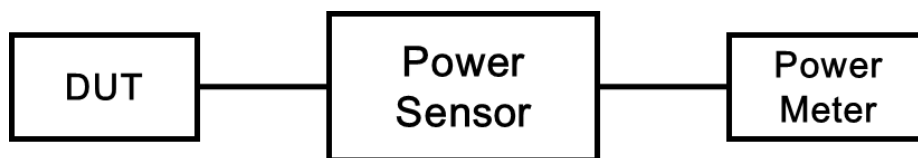


Appendix A - Conducted Power Measurements

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.
6. For 802.11ax mode, maximum output powers for each RU size were measured to demonstrate that are no higher than other OFDM 802.11 modes.



Power Measurement Setup

WLAN 2.4 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) |
| 802.11b | 1 | 2412 | 16.24 | 16.50 | 16.22 | 16.50 | 19.24 | 19.50 |
| | 6 | 2437 | 16.15 | 16.50 | 16.19 | 16.50 | 19.18 | 19.50 |
| | 11 | 2462 | 16.08 | 16.50 | 16.13 | 16.50 | 19.12 | 19.50 |
| 802.11g | 1 | 2412 | 15.81 | 16.50 | 15.91 | 16.50 | 18.87 | 19.50 |
| | 6 | 2437 | 15.75 | 16.50 | 15.84 | 16.50 | 18.81 | 19.50 |
| | 11 | 2462 | 15.69 | 16.50 | 15.81 | 16.50 | 18.76 | 19.50 |
| 802.11n HT20 | 1 | 2412 | 15.62 | 16.50 | 15.79 | 16.50 | 18.72 | 19.50 |
| | 6 | 2437 | 15.63 | 16.50 | 15.70 | 16.50 | 18.68 | 19.50 |
| | 11 | 2462 | 15.55 | 16.50 | 15.66 | 16.50 | 18.62 | 19.50 |
| 802.11n HT40 | 3 | 2422 | 15.76 | 16.50 | 15.90 | 16.50 | 18.84 | 19.50 |
| | 6 | 2437 | 15.80 | 16.50 | 15.86 | 16.50 | 18.84 | 19.50 |
| | 9 | 2452 | 15.67 | 16.50 | 15.70 | 16.50 | 18.70 | 19.50 |
| 802.11ax HE20 | 1 | 2412 | 15.86 | 16.50 | 15.87 | 16.50 | 18.88 | 19.50 |
| | 6 | 2437 | 15.75 | 16.50 | 15.91 | 16.50 | 18.84 | 19.50 |
| | 11 | 2462 | 15.74 | 16.50 | 15.86 | 16.50 | 18.81 | 19.50 |
| 802.11ax HE40 | 3 | 2422 | 15.94 | 16.50 | 16.08 | 16.50 | 19.02 | 19.50 |
| | 6 | 2437 | 15.97 | 16.50 | 16.05 | 16.50 | 19.02 | 19.50 |
| | 9 | 2452 | 15.88 | 16.50 | 15.99 | 16.50 | 18.95 | 19.50 |

| Bluetooth BR / EDR | | | | |
|------------------------------|---------|-----------------|---------------------|---------------------|
| Band | Channel | Frequency (MHz) | Aux | |
| | | | Average Power (dBm) | Tune-Up Limit (dBm) |
| Bluetooth BR GFSK | 0 | 2402 | 9.33 | 10.00 |
| | 39 | 2441 | 9.59 | 10.00 |
| | 78 | 2480 | 9.36 | 10.00 |
| Bluetooth EDR $\pi/4$ -DQPSK | 0 | 2402 | 6.00 | 6.50 |
| | 39 | 2441 | 6.30 | 6.50 |
| | 78 | 2480 | 5.62 | 6.50 |
| Bluetooth EDR 8DPSK | 0 | 2402 | 6.12 | 6.50 |
| | 39 | 2441 | 6.40 | 6.50 |
| | 78 | 2480 | 5.70 | 6.50 |

| Bluetooth LE | | | | |
|-----------------|---------|-----------------|---------------------|---------------------|
| Band | Channel | Frequency (MHz) | Aux | |
| | | | Average Power (dBm) | Tune up Limit (dBm) |
| Bluetooth LE 1M | 0 | 2402 | 7.92 | 8.00 |
| | 19 | 2440 | 7.88 | 8.00 |
| | 39 | 2480 | 7.51 | 8.00 |
| Bluetooth LE 2M | 1 | 2404 | 7.93 | 8.00 |
| | 19 | 2440 | 7.91 | 8.00 |
| | 38 | 2478 | 7.54 | 8.00 |