

For 2.4GHz Band:

<For External Antenna / Ant. 2>

Antenna Type : Omni Antenna

Max Conducted Power for IEEE 802.11g / Connector J2 + J3 + J4: 29.65dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.6	1.8197	29.6488	922.3114	0.083516	1	Complies

<For External Antenna / Ant. 5>

Antenna Type : Directional Antenna

Max Conducted Power for IEEE 802.11g / Connector J2 + J3 + J4: 29.98dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.2	3.3113	29.9780	994.9359	0.163940	1	Complies

<For Internal Antenna / Ant. 8>

Antenna Type : Embedded Antenna

Max Conducted Power for IEEE 802.11n MCS8 20MHz / Connector J2 + J3 + J4: 29.79dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.5	2.2387	29.7945	953.7779	0.106252	1	Complies

CONCLUSION:

Both of the WLAN 2.4GHz Band and WLAN 5GHZ Band can transmit simultaneously, the formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1$$

CPD = Calculation power density

LPD = Limit of power density

Therefore, the worst-case situation is $0.275374 / 1 + 0.163940 / 1 = 0.439314$, which is less than "1". This confirmed that the device comply with FCC 1.1310 MPE limit.