

MPE CALCULATION

FCC ID: WAQGCX3

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	2405 - 2480 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm ²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Prediction distance 20cm

EUT: Zigbee

(2.4GHz Band): Power = 1.645dBm, Antenna Gain = 3.3 dBi, Power density = 0.000622mW/ cm²

The Above Result had shown that the Device complied with MPE requirement.

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