

MPE CALCULATION

FCC ID: S9GR710

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:	2412 - 2462 MHz; 5180 – 5240 MHz, 5745 - 5825MHz
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: R710

(UNII Band): Power = 27.34dBm, Antenna Gain = 6.5 dBi, Power density = 0.482 mW/ cm²

(2.4GHz Band): Power = 28.375dBm, Antenna Gain = 5.5 dBi, Power density = 0.486 mW/ cm²

Total Ratio= $(P_{2.4GHz}/1) + (P_{5GHzUNII}/1) = 0.486 \text{ mW/ cm}^2 + 0.482 \text{ mW/ cm}^2 = 0.968 \text{ mW/ cm}^2$

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

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