MPE CALCULATION

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 /

47 CFR

§ 2.1091

EUT Frequency Band: 2412 - 2462 MHz

Limits for General Population/Uncontrolled Exposure in the band of: 1500

-100,000 MHz

Power Density Limit: 1.0mW/ cm²;

Equation: S = PG / 4π R2 or R = \sqrt{PG} / 4π S Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

For Frequency 2412-2462MHz

Middle Channel (2437 MHz): Power = 17.60 dBm, Antenna Gain = 2 dBi,

Prediction distance 20 cm

 $S = 0.03631 \text{ mW/cm}^2$

For Frequency 2422-2452MHz

Middle Channel (2437 MHz): Power = 15.91 dBm, Antenna Gain = 2 dBi,

Prediction distance 20 cm

 $S = 0.02461 \text{mW/cm}^2$

Result

The Above Result had shown that Device complied with 1.0 mW/cm2

Power density requirement for distance of 20 cm.