

## 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
EUT Frequency Band:	2412 – 2462 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 – 3000 GHz
Power Density Limit:	1 mW / cm <sup>2</sup> ;

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

---

: Power = 19.3dBm (802.11b) & 18.3dBm (802.11g), Antenna Gain = 3.38dBi, Prediction distance 20cm

$$S = 0.0369 \text{ mW/cm}^2 \quad (802.11b)$$

$$S = 0.0293 \text{ mW/cm}^2 \quad (802.11g)$$

### Result

The Above Result had shown that Device complied with 1.0 mW/cm<sup>2</sup> Power density requirement for distance of 20cm.

Completed By : Choon Sian Ooi

Date : Jun 11, 2009