

MPE CALCULATION

FCC ID: YPC-VULKANO-LC

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:	300 – 1500 GHz
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

802.11b Mid Channel (2437 MHz): Power = 16.82 dBm, Antenna Gain = 2.5 dBi, Prediction distance 20cm

S = 0.017 mW/cm²

802.11n-20MHz BW Mid Channel (2437 MHz): Power = 22.35 dBm, Antenna Gain = 2.5 dBi, Prediction distance 20cm

S = 0.06 mW/cm²

Result

The Above Result had shown that Device complied with 1 mW/cm² Power density requirement for distance of 20cm.

Completed By : David Zhang

Date : Nov1st, 2012