

**SAR evaluation**  
**FCC ID: 2BOPY-NCBBUDDY**

MPE Calculation Method

$$E \text{ (V/m)} = (30 \cdot P \cdot G)^{0.5} / d$$

$$\text{Power Density: } P_d \text{ (W/m}^2\text{)} = E^2 / 377$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance,

$d=0.2\text{m}$ , as well

as the gain of the used antenna, the RF power density can be obtained.

**Calculated WIFI Result and Limit**

Antenna Gain (Numeric)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.45 (1.61dBi)	25.06 (13.99dBm)	0.008	1	Compiles