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## Maximum Permissible Exposure (MPE)

The modular use shall be at least 20cm distance away from human body.

MPE Calculation Method:

$$E(\text{V/m}) = \frac{\sqrt{30 \times P \times G}}{d} \text{Power Density} = Pd(\text{mW/cm}^2) = \frac{E^2}{3770}$$

Combine these two formulas can be changed to:

$$Pd = \frac{30 \times P \times G}{3770 \times d^2}$$

Note:

1. "E" means Electric field (V/m)
2. "P" means Peak RF output power (W)
3. "G" means EUT Antenna numeric gain (numeric)
4. "d" means the minimum mobile separation distance is 0.2m between radiator and human body.



Antenna Gain

Antenna Gain: The maximum Gain is 2.79dBi.

ANT	Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna(dBm)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )
	802.11b	01	2412	15.38	0.013046	< 1
		06	2437	14.94	0.011789	
		11	2462	15.48	0.013350	
	802.11g	01	2412	12.00	0.005991	< 1
		06	2437	12.30	0.006419	
		11	2462	12.20	0.006273	
	802.11n HT20	01	2412	11.93	0.005895	< 1
		06	2437	12.17	0.006230	
		11	2462	12.06	0.006074	
	802.11nHT40	03	2422	12.26	0.006360	< 1
		06	2437	11.31	0.005111	
		09	2452	10.83	0.004576	