FCC ID.: XOJGA1000 REPORT NO.: E980805

# Maximum Permissible Exposure (MPE)

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

## **MPE Calculation Method**

$$E (V/m) = \frac{\sqrt{30*P*G}}{d}$$
 Power Density = Pd (W/m<sup>2</sup>) =  $\frac{E^2}{377}$ 

Combine these two formulas can be changed to

Pd= 
$$\frac{30^{\circ}P^{\circ}G}{377^{\circ}d^{2}}$$

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.

## **Calculated Result and Limit**

### IEEE802.11b

Channel	A.P.	Antenna Gain (numeric)	Peak Output Power (mW)	Power Density (mW / cm <sup>2</sup> )	Limit of Power Density (mW / cm²)	Test Result
1	Н	1.58	8.206	0.00258	<1	PASS
	V		8.858	0.00278		
6	Н	1.58	3.700	0.00116	<1	PASS
	V		3.716	0.00117		
11	Н	1.58	2.643	0.000831	<1	PASS
	٧		1.125	0.000354		

### IEEE802.11g

Channel	A.P.	Antenna Gain (numeric)	Peak Output Power (mW)	Power Density (mW / cm²)	Limit of Power Density (mW / cm²)	Test Result
1	Н	1.58	7.663	0.00241	<1	PASS
	V		8.018	0.00252		
6	Н	1.58	3.298	0.00104	<1	PASS
	V		3.419	0.00107		
11	Н	1.58	2.428	0.000763	<1	PASS
	V		1.011	0.000318		