

MPE ESTIMATION

FCC ID: 2BO6Y-GR-W-105N

1, According to §1.1310, Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

2, Estimation Result

For WIFI:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
2412	13.47	13±1(14)	25.12	1.37	1.37	0.00685
2402	6.75	6±1(7)	5.01	1.37	1.37	0.00137

$$Pd = \frac{Pout * G}{4\pi r^2} ;$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power in mW.

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna in cm

Conducted power see the test report HK2503281548-1E/2E,

2.4G antenna gain=1.37dBi

BT antenna gain=1.37dBi

2.4G WIFI MPE (max)= 0.00685 (mW/cm²)

BT MPE (max)= 0.00137 (mW/cm²)

simultaneously MPE=0.00685+0.00137=0.00822 (mW/cm²)

when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.00822 which is< 1.0, RF Exposure testing is not required.

-----The End-----