

MPE ESTIMATION

FCC ID: 2ABD3-WR336M

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

Note: F= Frequency in MHz

2, Estimation Result

For Bluetooth and WIFI:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (Numerical)	MPE (mW/cm ²)
2437	12.99	12±1(13)	19.95	0	1	0.00397
2402	-0.59	-1.3±1(-0.3)	0.93	-0.68	0.86	0.00016

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

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 HK2505232684-1E/2E,

2.4G antenna gain=0dBi;

BT antenna gain=-0.68dBi

2.4G WIFI MPE (max)= 0.00397 (mW/cm²)

BT MPE (max)= 0.00016 (mW/cm²)

simultaneously MPE=0.00397+0.00016=0.00413 (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 0.00413 which is < 1.0, RF Exposure testing is not required.

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