

MPE ESTIMATION

FCC ID: **2BBBN-F8**

1, 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 2.4G+5G 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)
2.4G WIFI	13.88	13±1(14)	25.12	0.74	1.19	0.00593
5.8G WIFI	10.97	10±1(11)	12.59	2.89	1.95	0.00487

$$Pd = \frac{P_{out} * G}{4\pi r^2} :$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2312226265-1E/-2E,**

2.4G WIFI antenna gain=0.74dBi;

5.8G WIFI antenna gain=2.89dBi;

2.4G WIFI MPE (max)= 0.00593 (mW/cm²)

5G WIFI MPE (max)= 0.00487 (mW/cm²)

simultaneously MPE=0.00593+0.00487=0.0108(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 0.0108 which is < 1.0, RF Exposure testing is not required.

Note: the device could not transmit simultaneously in 2.4G and 5G.

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