MPE ESTIMATION

FCC ID: 2BBBN-F7NPRO

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 WIFI:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (Numerical)	MPE (mW/cm²)
2437	16.75	16±1(17)	50.12	-0.93	0.81	0.00805
5755	9.80	9±1(10)	10.00	2.16	1.64	0.00327

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

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 HK2507143817-1E/2E,

2.4G antenna gain=-0.93dBi;

5.8G antenna gain=2.16dBi

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 0.00805 which is< 1.0, RF Exposure testing is not required.

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

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