



MPE ESTIMATION

FCC ID: 2A409-8013

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

Note: F= Frequency in MHz

2, Estimation Result

Mode	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
2.4GWiFi	2412	14.79	14±1(15)	31.62	1	1.2589	0.00792
BT	2480	2.87	2±1(3)	2.00	1	1.2589	0.00050
5.8GWiFi	5775	13.33	12.5±1(13.5)	22.39	1	1.2589	0.00561

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2201070083-1E/2E/3E**, 2.4G WIFI antenna gain=1dBi, BT antenna gain=1dBi, 5.8G WIFI antenna gain=1dBi

The device could not transmit simultaneously in 5.8GWIFI and 2.4GWIFI.

simultaneously MPE= BT+WIFI=0.00050+0.00792=0.00842 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 0.00842 mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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