

MPE ESTIMATION

FCC ID: 2BMIU-AP6030

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 Ant1	14.10	14±1(15)	31.623	4.0	2.51	0.01581
2.4G WIFI Ant2	13.99	13±1(14)	25.119	3.9	2.45	0.01227
MIMO	/	/	/	/	/	0.02808
5.2G WIFI Ant1	6.18	6±1(7)	5.012	3.7	2.34	0.00234
5.2G WIFI Ant2	6.48	6±1(7)	5.012	4.0	2.51	0.00251
MIMO	/	/	/	/	/	0.00485
5.8G WIFI Ant1	6.80	6±1(7)	5.012	3.7	2.34	0.00234
5.8G WIFI Ant2	6.18	6±1(7)	5.012	4.0	2.51	0.00251
MIMO	/	/	/	/	/	0.00485

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2411186879-1E/2E/3E**,

2.4G antenna 1 gain=4.0dBi, 2.4G antenna 2 gain=3.9dBi;

5.2G antenna 1 gain=3.7dBi, 5.2G antenna 2 gain=4.0dBi;

5.8G antenna 1 gain=3.7dBi, 5.8G antenna 2 gain=4.0dBi.

2.4G WIFI MPE (max)= 0.02808 (mW/cm²)

5G WIFI MPE (max)= 0.00485(mW/cm²)

simultaneously MPE= 0.02808+0.00485=0.03293

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 0.03293 which is < 1.0, RF Exposure testing is not required.

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