

MPE ESTIMATION

FCC ID: 2A27N-KWM2000

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 /5GWIFI:

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 Ant 1	16.61	15.8±1(16.8)	47.863	3	1.9953	0.01901
2.4G WIFI Ant 2	16.04	15.5±1(16.5)	44.668	3	1.9953	0.01774
MIMO	/	/	/	/	/	0.03675
5.2G WIFI Ant 1	15.92	15±1(16)	39.811	3	1.9953	0.01581
5.2G WIFI Ant 2	15.55	15±1(16)	39.811	3	1.9953	0.01581
MIMO	/	/	/	/	/	0.03162
5.8G WIFI Ant 1	14.49	13.5±1(14.5)	28.184	3	1.9953	0.01119
5.8G WIFI Ant 2	14.17	13.5±1(14.5)	28.184	3	1.9953	0.01119
MIMO	/	/	/	/	/	0.02239

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK2109093433-1E/2E/3E,

2.4G antenna gain=3dBi.

5G antenna gain=3dBi.

2.4G WiFi and 5G WiFi Simultaneous evaluation:

0.03675 mW/cm²+0.03162 mW/cm²=0.06837 mW/cm²<1.

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 0.06837mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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