

MPE ESTIMATION

FCC ID: 2ABFZ-ARC52-6WAP

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 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	13.08	13±1(14)	25.119	6	3.9811	0.01990
2.4G WIFI Ant2	12.36	12±1(13)	19.953	6	3.9811	0.01581
MIMO	/	/	/	/	/	0.03572
5.2G WIFI Ant1	13.12	13±1(14)	25.119	6	3.9811	0.01990
5.2G WIFI Ant2	13.57	13±1(14)	25.119	6	3.9811	0.01990
MIMO	/	/	/	/	/	0.03981
5.8G WIFI Ant1	9.23	9±1(10)	10	6	3.9811	0.00792
5.8G WIFI Ant2	9.02	9±1(10)	10	6	3.9811	0.00792
MIMO	/	/	/	/	/	0.01585

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

Note:

Note: The estimation distance is 20cm

The device could not transmit simultaneously in 2.4G and 5G.

Note: PK Output power= conducted power.

Conducted power see the test report HK2010233209-1E/2E/3E,

2.4G antenna gain=6dBi.

5.2G antenna gain=6dBi.

5.8G antenna gain=6dBi.

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 0.03981mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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

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