

MPE ESTIMATION

FCC ID: **2BF7S-BROUTER6**

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 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 ANT.1	14.61	14±1(15)	31.62	4.87	3.07	0.01932
2.4G WIFI ANT.2	14.58	14±1(15)	31.62	4.66	2.92	0.01841
MIMO	/	/	/	/	/	0.03773
5.2G WIFI ANT.1	8.87	8±1(9)	7.94	6	3.98	0.00629
5.2G WIFI ANT.2	8.21	8±1(9)	7.94	6	3.98	0.00629
MIMO	/	/	/	/	/	0.01258
5.8G WIFI ANT.1	8.73	8±1(9)	7.94	6	3.98	0.00629
5.8G WIFI ANT.2	8.49	8±1(9)	7.94	6	3.98	0.00629
MIMO	/	/	/	/	/	0.01258

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK2404171876-1E/-2E/3E,

2.4G antenna gain=4.87dBi/4.66dBi

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 0.03773 which is < 1.0, RF Exposure testing is not required.

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

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