

MPE ESTIMATION

FCC ID: 2BKS8-POSHA

1, According to §1.1310, 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

	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (numerical)	MPE (mW/cm ²)	Limit (mW/cm ²)
2.4GWiFi	2437	14.38	14±1(15)	31.62	2.52	1.79	0.01124	1.0
5.2GWiFi	5180	7.89	7±1(8)	6.31	3.17	2.07	0.00261	1.0
5.8GWiFi	5825	8.29	8±1(9)	7.94	2.76	1.89	0.00299	1.0

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power in mW.

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna in cm

Conducted power see the test report **HK2510105564-1E/2E/3E**,

2.4GWiFi antenna gain=2.52dBi, 5.2GWiFi antenna gain=3.17dBi, 5.8GWiFi antenna gain=2.76dBi.

2.4GWiFi and 5GWiFi cannot be transmitted at the same time

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 0.01124 (mW/cm²) which is < 1.0 (mW/cm²), RF Exposure testing is not required.

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