

MPE ESTIMATION

FCC ID: 2A7Z7-YS-HPC03

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)
2.4GWiFi	2412	14.83	14±1(15)	31.623	3.60	2.29	0.01442
5.8GWiFi	5745	7.08	7±1(8)	6.310	2.13	1.63	0.00205

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

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 **HK2511286363-1E/2E**, 2.4GWiFi antenna gain=3.60dBi, 5.8GWiFi antenna gain=2.13dBi.

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 0.01442mW/cm² which is< 1.0 mW/cm², RF Exposure testing is not required.

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