

MPE ESTIMATION

FCC ID: 2AWCB-HS-AI13

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)
BLE	2440	-0.37	-1±1(0)	1.000	1.21	1.32	0.00026
2.4GWiFi	2437	14.72	14±1(15)	31.623	1.21	1.32	0.00832

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

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 **HK2503141182-1E/2E**, antenna gain=1.21dBi

WiFi and Bluetooth 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 0.00832mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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