



MPE ESTIMATION

FCC ID: 2A9DX-GATEWAY

1, Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the 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 (linear)	MPE (mW/cm ²)
2.4g wifi: 2412	19.27	19±1(20)	100.00	1.88	1.54	0.0306
BLE: 2440	4.76	4±1(5)	3.16	1.88	1.54	0.00097

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2307203148-E** , antenna gain=1.88dBi

The certified sample is portable device, 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 0.0306 mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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