



MPE ESTIMATION

FCC ID: 2A6FX-LZTA1000BT

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)
BLE(External Antenna)	2440	-6.47	-6±1(-5)	0.316	1.36	1.368	0.00009	1.0
EDR(External Antenna)	2402	-3.79	-3±1(-2)	0.631	1.36	1.368	0.00017	1.0
BLE(PCB Antenna)	2440	-6.47	-6±1(-5)	0.316	-0.58	0.875	0.00006	1.0
EDR(PCB Antenna)	2402	-3.79	-3±1(-2)	0.631	-0.58	0.875	0.00011	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 **HK2609090878-1E/2E**, PCB Antenna gain=-0.58dBi,

External Antenna gain=1.36dBi.

EDR(External Antenna)+ EDR(PCB Antenna)=0.00028

BLE and EDR 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 0.00028 which is < 1.0, RF Exposure testing is not required.

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