



MPE ESTIMATION

FCC ID: 2A6FX-PTA1000BT

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	2402	-0.30	-1±1(0)	1.00	2	1.58	0.00032	1.0
EDR	2402	2.83	2±1(3)	2.00	2	1.58	0.00063	1.0

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

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 **DLE-260313037R/ DLE-260313047R**,

External Antenna gain=2dBi; PCB Antenna gain=-0.68dBi.

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 0.00063 mW/cm² which is < 1.0 mW/cm², RF Exposure testing is not required.

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