



MPE ESTIMATION

FCC ID: 2A6FX-PDA8BUWM

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

Mode	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)
BLE: PCB Antenna	2402	-2.16	-2±1(-1)	0.79	2.54	1.79	0.00028
BLE: External Antenna	2402	-1.03	-1±1(0)	1.00	-0.58	0.87	0.00017
EDR: PCB Antenna	2402	0.43	0±1(1)	1.26	2.54	1.79	0.00044
EDR: External Antenna	2402	1.46	1±1(2)	1.58	-0.58	0.87	0.00027

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2305061763-1E/2E**, antenna gain=-0.58dBi(External Antenna), 2.54dBi(PCB Antenna)

BLE(PCB Antenna and External Antenna) Simultaneous evaluation:

simultaneously MPE= 0.00028+0.00044=0.00072 < 1



EDR(PCB Antenna and External Antenna) Simultaneous evaluation:
simultaneously MPE= $0.00017+0.00027=0.00044 < 1$

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 0.00072 mW/cm^2 which is $< 1.0 \text{ mW/cm}^2$, RF Exposure testing is not required.
-----The End-----