



# MPE ESTIMATION

FCC ID: 2A6AK-Q30

1, Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm <sup>2</sup> )	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 <sup>2</sup> )
2.4G WIFI	2462	13.05	13±1(14)	25.12	1	1.26	0.0063
BLE	2480	1.32	1±1(2)	1.58	2.26	1.68	0.00053
EDR	2441	3.06	3±1(4)	2.51	2.26	1.68	0.00084

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2403050975-3E** , antenna gain=1dBi(2.4G WIFI),2.26dBi(BT)

BT MPE (max)= 0.00084 (mW/cm<sup>2</sup>)

2.4G wifi (max)= 0.0063 (mW/cm<sup>2</sup>)

simultaneously MPE=0.00084+0.0063=0.00714(mW/cm<sup>2</sup>)

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 0.00714 mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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