MPE ESTIMATION

FCC ID: 2ARXS-ZAPDL

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/cm²)
2.4g WiFi	2452	13.47	13±1(14)	25.12	3.34	2.16	0.01079
BLE	2402	1.20	1±1(2)	1.58	4.83	3.04	0.00096

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

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2411126667-1E/2E**, antenna gain=3.34dBi(2.4g WiFi), 4.83dBi(BLE)

2.4G WIFI (max)= 0.01079 (mW/cm²)

BLE (max)= 0.00096 (mW/cm²)

simultaneously MPE=0.01079+0.00096=0.01175(mW/cm²)

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 0.01175 mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.

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