



MPE ESTIMATION

FCC ID: 2BVHJ-V9-ZONG

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)	Ratios
BLE	2440	-4.65	-4±1(-3)	0.50	0.21	1.05	0.00010	1.0	0.00010
EDR	2441	1.42	1±1(2)	1.58	0.21	1.05	0.00033	1.0	0.00033
2.4GWiFi	2437	14.85	14±1(15)	31.62	-0.12	0.97	0.00612	1.0	0.00612
5.2GWiFi	5190	6.64	6±1(7)	5.01	-1.12	0.77	0.00077	1.0	0.00077

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

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 **HK2601040004-1E/2E/3E/4E**,

BT antenna gain=0.21dBi, 2.4G WIFI antenna gain=-0.12dBi, 5.2G antenna gain=-1.12dBi.

Simultaneously MPE Ratios: EDR + 2.4GWiFi = 0.00033 + 0.00612 = 0.00645

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 0.00645 which is < 1.0; RF Exposure testing is not required.

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