

MPE ESTIMATION

FCC ID: VA8-IOTV2

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

For Bluetooth and WIFI:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (Numerical)	MPE (mW/cm ²)
2452	14.77	14±1(15)	31.62	3.42	2.20	0.01383
2441	2.64	2±1(3)	2.00	3.42	2.20	0.00087
2440	0.64	0.2±1(1.2)	1.32	3.42	2.20	0.00058

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

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 HK2506052939-1E/2E/3E,

2.4GWIFI antenna gain=3.42dBi;

BT antenna gain=3.42dBi

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 0.01383 which is < 1.0, RF Exposure testing is not required.

The device could not transmit simultaneously in 2.4GWiFi and Bluetooth.

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