

MPE ESTIMATION

FCC ID: 2BEXL-GLSTATION

1. 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

BLE:

Frequency (MHz)	Reading result (dBμV)	EIRP(dBm)	Max Tune Up Power (mW)	MPE (mW/cm ²)	Power Density (mW/cm ²) Limit	Result
2402	95.05	-0.15	0.966	0.000272	1.0	PASS
$Pd = \frac{P_{out} * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: Reading result see the test report UNIA23101336ER-61.						
EIRP= Reading result - 95.2						

WIFI2.4G:

Mode	AV Output Power(dBm)	Tune Up Power(dBm)	Tune Up Power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11b	16.68	17±1(18)	63.096	3.71	2.3496	0.029508
11g	13.92	14±1(15)	31.623	3.71	2.3496	0.014789
11n/HT20	11.74	12±1(13)	19.953	3.71	2.3496	0.009332
11n/HT40	9.35	9±1(10)	10.000	3.71	2.3496	0.004677
$Pd = \frac{P_{out} * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: AV Output power=conducted power.						
Conducted power see the test report UNIA23101336ER-62, antenna gain=3.71dBi.						

The Bluetooth can transmit simultaneously with WIFI.

So the worst simultaneous transmitting consideration:

The ratio=MPE_{BT}/Limit +MPE_{2.4G WIFI} /Limit

=0.000272/1.00+0.029508/1.00=0.002978<1.00

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