

MPE ESTIMATION

FCC ID: 2BDIA-RWSQ-12

1. Limit for General Population/Uncontrolled Exposures

Frequency	Power Density(mW/cm2)	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/cm²)	Power Density (mW/cm2) Limit	Result
2402	100.57	5.37	3.44	0.001741	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 UNIA23110209ER-61.						
EIRP= Reading result - 95.2						

WIFI2.4G:

Mode	Max PK Output Power(dBm)	Tune Up Power(dBm)	Max Tune Up Power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)	Power Density(mW/cm2) Limit	Result
11b	15.67	16±1(17)	50.119	2.54	1.7947	0.025339	1.0	PASS
11g	13.37	13±1(14)	25.119	2.54	1.7947	0.012699	1.0	PASS
11n/HT20	10.98	11±1(12)	15.849	2.54	1.7947	0.008013	1.0	PASS
$Pd = \frac{P_{out} * G}{4\pi r^2}$								
Note:								
Note: The estimation distance is 20cm.								
Note: PK Output power=conducted power.								
Conducted power see the test report UNIA23110209ER-62, antenna gain=2.54dBi.								

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