

# MPE ESTIMATION

FCC ID: 2A4A7-PTM-301

## 1. Limit for General Population/Uncontrolled Exposures

Frequency	Power Density(mW/cm <sup>2</sup> )	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 <sup>2</sup> )	Power Density (mW/cm <sup>2</sup> ) Limit	Result
2402	102.01	6.81	4.797	0.000955	1.0	PASS
$Pd = \frac{Pout * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: Reading result see the test report UNIA24010236ER-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 <sup>2</sup> )
11b	12.10	12±1(13)	16.218	2.54	1.7947	0.005793
11g	8.91	9±1(10)	7.780	2.54	1.7947	0.002779
11n/HT20	6.73	7±1(8)	4.710	2.54	1.7947	0.001683
$Pd = \frac{Pout * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: AV Output power=conducted power. Conducted power see the test report UNIA23101336ER-62, antenna gain=2.54dBi.						

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