

MPE ESTIMATION

FCC ID: 2AT9N-715003018

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

BT (Worst case):

Frequency	Reading result(dBμV)	Conducted power(dBm)	Tune Up Power(dBm)	Max Tune Up Power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	Power Density(mW/cm ²)	Result
8DPSK 2402 MHz	98.61	3.41	3±1(4)	2.512	-0.347	0.9232	0.000462	1.0	PASS

$$Pd = \frac{Pout * G}{4\pi r^2}$$

Note:

Note: The estimation distance is 20cm.

Note: Conducted power = Reading result-95.2

Note: Conducted power see the test report 23051519ER-61, antenna gain=-0.347dBi.

BLE:

Frequency	Reading result(dBμV)	Conducted power(dBm)	Tune Up Power(dBm)	Max Tune Up Power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	Power Density(mW/cm ²)	Result
2440 MHz	96.88	1.68	2±1(3)	1.995	-0.347	0.9232	0.000367	1.0	PASS

$$Pd = \frac{Pout * G}{4\pi r^2}$$

Note:

Note: The estimation distance is 20cm.

Note: Conducted power = Reading result-95.2

Note: Conducted power see the test report 23051519ER-62, antenna gain=-0.347dBi.

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