

MPE Calculation

$S = \text{Maximum power density (mW/cm}^2\text{)}$
 $P = \text{Power input to the antenna (mW)}$
 $G = \text{Numeric power gain of the antenna}$
 $R = \text{Distance to the center of the radiation of the antenna}$
 $\text{EIRP} = \text{Equivalent Isotropic Radiated Power(mW) } (=P \times G)$

Frequency range (MHz)			Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm ²)	Averageing time (minutes)
0.3	~	1.34	614	1.63	*100	30
1.34	~	30	824 / f	2.19 / f	*180 / f ²	30
30	~	300	27.5	0.073	0.2	30
300	~	1,500			f / 1500	30
1,500	~	100,000			1	30

Model Name : **IT23**

FCC ID : **2BK7L-IT23**

Separation distance (R) : **20.0 cm**

Modulation	Frequency (MHz)	Measured Maximum Average power	Tune-up tolerance	Max. Power with tune-up tolerance (P)		Antenna Gain (G)		Power Density (S)	Limit of Power Density (S)	Result
		(dBm)		(dBm)	(mW)	(dBi)	(numeric)	(mW/cm ²)	(mW/cm ²)	
BT LE 1Mbps (Adapter)	2402	-11.48	± 1.00	-10.48	0.09	1.60	1.45	0.0000	1.00	PASS
	2442	-13.01		-12.01	0.06	1.60	1.45	0.0000	1.00	PASS
	2480	-13.73		-12.73	0.05	1.60	1.45	0.0000	1.00	PASS
BT LE 2Mbps (Adapter)	2402	-11.43	± 1.00	-10.43	0.09	1.60	1.45	0.0000	1.00	PASS
	2442	-12.76		-11.76	0.07	1.60	1.45	0.0000	1.00	PASS
	2480	-13.77		-12.77	0.05	1.60	1.45	0.0000	1.00	PASS
BT LE 1Mbps (Battery)	2402	-11.48	± 1.00	-10.48	0.09	1.60	1.45	0.0000	1.00	PASS
	2442	-12.99		-11.99	0.06	1.60	1.45	0.0000	1.00	PASS
	2480	-13.88		-12.88	0.05	1.60	1.45	0.0000	1.00	PASS
BT LE 2Mbps (Battery)	2402	-11.44	± 1.00	-10.44	0.09	1.60	1.45	0.0000	1.00	PASS
	2442	-12.9		-11.90	0.06	1.60	1.45	0.0000	1.00	PASS
	2480	-13.8		-12.80	0.05	1.60	1.45	0.0000	1.00	PASS

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.