FCC ID: TQ8-ACB10VDGN

MPE Calculation: Bluetooth

RF function or Mode	Frequency range (MHz)			Max. Target Power (dBm)	ANT Gain (dBi)	Maximum EIRP (dBm)	Maximum EIRP (mW)	Maximum power density (mW/cm²)	Requriment (mW/cm²)
Bluetooth(1Mbps)	2402.00	~	2480.00	1.00	-0.46	0.54	1.133	0.00023	1.000
Bluetooth(2,2Mbps)	2402.00	~	2480.00	-0.50	-0.46	-0.96	0.802	0.00016	1.000
		~							
		~							
		~							
		~							
		~							
		~							

Note: Please refer to the operation description for Max tune-up power.

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

The MPE sample calculation for this exposure is shown below.

• **S** = EIRP / (4 R²
$$\pi$$
)
= 1.133 / (4 X 20² X π)
= 0.00023 mW/cm²

- Note

S= Maximum power density(mW/cm²)

EIRP= Equivalent Isotropic Radiated Power(mW)

R= Distance to the center of the radiation of the antenn

Limits for Maximum Permissible Exposure (MPE)

()												
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			1.0	30						

Conclusion: The exposure condition of this device is compliant with FCC