



Report No.: FCS202205041W02

## FCC RF Exposure

EUT Description: 3-PIECE CD SHELF SYSTEM with Digital PLL FM Stereo Radio and Bluetooth Wireless

Technology

ModelNo.:MM444BT FCC ID: 2ASKIMM444BTX

Equipment type: fixed equipment

## 1. Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)	
	(A) Limit	ts for Occupational/Controlled E	xposures	1	
0.3-3.0	614	1.63	*(100) 6		
3.0–30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6	
30–300	61.4	0.163	1.0	6	
300–1500			f/300	6	
1500-100,000			5	6	
	(B) Limits fo	r General Population/Uncontroll	led Exposure		
0.3-1.34	614	1.63	*(100) 30		
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30	
30–300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

F = frequency in MHz

Formula: Pd = (Pout\*G)/(4\*  $\pi$  \*r<sup>2</sup>)

Where:

Pd = power density in mW/cm<sup>2</sup>,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

 $\pi = 3.14$ ;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

## 2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.





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## 3. Test Result of RF Exposure Evaluation

	Output power	Antenna	Power Density	Limit	Result
	(dBm/mW)	Gain(dBi)	at R=20cm	(mW/cm <sup>2</sup> )	
			(mW/cm <sup>2</sup> )		
2402MHz	3.482/2.2295	1.0	0.00056	1.0	Pass
2441MHz	-1.178/0.7623	1.0	0.00019	1.0	Pass
2480MHz	-1.789/0.6624	1.0	0.00017	1.0	Pass