

Analysis Report

Report No.: 20060404HKG-001

The Equipment Under Test (EUT) is the Joel Osteen Inspiration Cube which is the audio cube that delivered motivational quotes daily to provide daily inspiration. The EUT contains a Bluetooth music playing feature which operates at frequency range between 2402MHz and 2480MHz. The EUT is powered by an internal 3.7V rechargeable battery. The USB port is for charging internal battery purpose only that does not have data transfer.

According to the KDB 447498:

Conducted Power = EIRP – antenna gain
= 5dBm - 0dBi = 5dBm = 3.16 mW

The SAR Exclusion Threshold Level:
= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$
= $3.0 * 5 / \text{sqrt}(2.480)$ mW
= 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.