

# Analysis Report

Report No.: 20070182HKG-001

The Equipment Under Test (EUT) is the Baby Swinger which include speaker for audio playing and motor for Swinging. The EUT is a “Bluetooth 5” device which operates at frequency range between 2402MHz and 2480MHz. The EUT support 79 channels within the frequency range. The EUT is powered by adaptor Model: KA0601A-05010000USU (Input: 100-240VAC 0.2A 50/60Hz Output: 5VDC 1000mA). This “Bluetooth 5” device that without support BLE.

Antenna Type: Internal integral antenna

Antenna Gain: -0.58dBi

Nominal rated field strength: 100dBμV/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 103dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 7.8mW$

Conducted power = Radiated Power (EIRP) – Antenna Gain  
So;

Conducted Power = 8.38 mW.

The SAR Exclusion Threshold Level:

=  $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

=  $3.0 \cdot 5 / \sqrt{2.480}$  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.