

Analysis Report

Report No.: 14031446HKG-001

The Equipment Under Test (EUT) is a Recording Toy Bear, equipped with Bluetooth 4.0. The EUT operates in the frequency range 2402MHz to 2480MHz (40 channels with 2 MHz spacing). The EUT is powered by 4.5VDC (3 x 1.5V AA Batteries). When the recording is sending the LED (red colour) on the panel of the unit will be lighted. It can be controlled by iPad via Bluetooth communication.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 94.5dB μ V/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 97.5 dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 1.687\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 1.687mW.

The SAR Exclusion Threshold Level:

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

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