

Analysis Report

Report No.: 16061241HKG-001

The Equipment Under Test (EUT) is a 2.4GHz Bluetooth 3.0 selfie stick. The EUT is powered by a 3.7VDC Lithium-ion rechargeable battery pack (powered by USB port). The Bluetooth module is operating in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The EUT can be connected with a smartphone (IOS or Android) with Bluetooth function for the photo taking.

Antenna Type: Internal integral antenna

Antenna Gain: 2.3dBi

Nominal rated field strength: 93.8dBμV/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 96.8dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 1.436\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.846mW.

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \sqrt{2.480} \text{ mW}$

= 9.52 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.