Analysis Report

Report No.: 15040657HKG-002

The Equipment Under Test (EUT) is a 2.4GHz Bluetooth 3.0 transceiver (Camera Remote Shutter), which is operating at 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The EUT is powered by 3.0 VDC (1 X 3.0V “CR2025” batteries). The EUT has a power ON/OFF switch and a LED. When the EUT is switched ON, the blue LED will be on. The EUT will pair with the relating Smartphone via Bluetooth function and the blue LED will flash when they are successfully connected. Open the Camera application on the Smartphone, the photo will be taken when pressing the button on the EUT.

Antenna Type: Internal integral antenna
Antenna Gain: 0dBi
Nominal rated field strength: 94.2dBμV/m at 3m
Maximum allowed field strength of production tolerance: +3dB / - 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 97.2dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 1.574mW

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

Conducted Power = 1.574mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 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.