Analysis Report

Report No.: 16090771HKG-001

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Controller Unit) used to connect with Smartphone for mobile gaming via Bluetooth 4.0. The EUT is operated at a frequency range of 2402-2480MHz with 2MHz channel spacing.

The EUT is powered by 3 * 1.5V AAA batteries. With smartphone connected, the EUT can be used as a controller for the mobile game app.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 95.5dBµV/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 98.5dBµV/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS*D) ^2*1000 / 30] = 2.124mW$

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

Conducted Power = 2.124mW.

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.