## **Analysis Report**

Report No.: 17080818HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Controller Unit) for a RC car operating at the frequency range of 2410.875-2468.25MHz with 3.375 MHz channel spacing.

The EUT is powered by 4 x 1.5V AA batteries. After switching on the EUT and being paired with car, the car can be controlled to move forward/backward and turn left/ right by the controller.

The controller can also connect to the camera portion of car with the function of photo taking and video recording.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Average field strength: 65.6dBµV/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 68.6dBµV/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D) ^2*1000 / 30] = 0.002 mW$ 

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

Conducted Power = 0.002mW.

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.46825) mW
- $= 9.55 \, \text{mW}$

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.