Analysis Report

Report No.: 17080818HKG-002

The EUT is a 2.4GHz transceiver with a camera. The EUT is powered by $6 \times 1.5V$ AA batteries. After switching on the EUT and being paired with controller, the car can be controlled to move forward/backward and turn left/ right.

It is operating at the frequency range of 2410.875-2468.25MHz with 3.375 MHz channel spacing and can also connect to controller with the function of taking photo and recording video.

Antenna Type: Internal integral antenna Antenna Gain: 0dBi Average field strength: 89.2dBµV/m at 3m Maximum allowed field strength of production tolerance: +3dB / -6dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was $92.2dB\mu V/m$ at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 0.498mW

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

Conducted Power = 0.498mW.

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 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.