## **Analysis Report**

Report No.: 16020752HKG-001

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Car Unit) controlled by controller operating at the frequency range of 2410-2475MHz with 1MHz channel spacing.

The EUT is powered by 6V rechargeable battery. After turning on the EUT and paired with controller, the car can be controlled to move forward, backward and turn left/ right by the controller.

Antenna Type: Internal integral antenna Antenna Gain: 0dBi Nominal rated field strength: 72.6dBµV/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 75.6dBµV/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS\*D) ^2\*1000 / 30] = 0.011mW

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

Conducted Power = 0.011 mW.

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.