

Analysis Report

Report No.: 16030910HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Tank Unit) for a RC Tank operating at the frequency range of 2408-2460MHz that contains 5 occupied channels, which are 2408, 2418, 2430, 2442 and 2460.

The EUT is powered by a 3.7V rechargeable battery. After switch on the EUT and pair with the controller, the Tank can be controlled to move forward and turn left/ right by the controller. The Tank can be charged by USB port charging cable.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 92.3dB μ V/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 95.3dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 1.017mW

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

Conducted Power = 1.017mW.

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.