

Analysis Report

Report No.: 16041836HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Plane Unit) operating at the frequency range of 2412-2470MHz with 2 MHz channel spacing.

The EUT is powered by 3.7 V rechargeable battery. After switch on the EUT and paired with controller, the plane 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: 83.2 dB 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 86.2 dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.125mW$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.125mW.

The SAR Exclusion Threshold Level:

= $3.0 \cdot (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$

= $3.0 \cdot 5 / \text{sqrt}(2.480)$ 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.