

# Analysis Report

Report No.: 14040701HKG-003

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Helicopter Unit) for a RC helicopter operating at 2412, 2424, 2442 and 2460MHz. The EUT is powered by 1 X3.7V rechargeable battery (Li-Poly). After switch on the EUT and paired with controller, the EUT can be controlled to fly forward, backward, turning left and right direction by the corresponding controller. To charge the internal battery in the helicopter, either plug the charging connector from the controller into the charging jack on the helicopter for starting the charge process or using USB charging cable for charging via PC.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Production tolerance: -11dBm (Minimum) to -5dBm (Maximum)

According to the KDB 447498:

Based on the Maximum allowed radiated power of production tolerance was -5.0dBm in frequency 2.4GHz, thus;

Maximum radiated power (EIRP) is 0.316mW (i.e. -5.0dBm), thus;

The maximum conducted source-based output power  
= 0.316 mW.

The SAR Exclusion Threshold Level:

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

=  $3.0 * 5 / \text{sqrt}(2.460)$  mW

= 9.56 mW

Since the above conducted source-based output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.