

# Analysis Report

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Plane Unit) for a RC Controller from 2408-2472MHz with 1MHz channel spacing. The EUT is powered by 1 X 3.7V Rechargeable battery pack. After switch on the EUT and paired with controller, the EUT can be controlled to move forward, backward, turning left/right direction by the controller.

Antenna Type: External integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 82.3B $\mu$ 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 85.3dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS * D)^2 * 1000 / 30] = 0.102mW$

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

Conducted Power = 0.102mW.

The SAR Exclusion Threshold Level:

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

GHz) =  $3.0 * 5 / \text{sqrt} (2.475) mW$

= 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.