

Analysis Report

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (controller) operating at frequency range of 2404.7-2469.7 MHz with 1Mhz channel spacing.

The EUT is powered by 4 x 1.5V AA battery. By activating the control buttons, the controller will be able to control the flying car to move or fly.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 86.2dB 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 89.2dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.25\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.25mW.

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.