

# Analysis Report

The Equipment Under Test (EUT) is a 2.4GHz Pure Transmitter Controller for RC car operated at 2407-2477MHz with 1MHz Channel Spacing. The EUT is powered by 2 X 1.5V AA batteries. After switch on the EUT and paired with RC Car, the RC Car can be controlled to move forward, backward, turn right/left by the controller.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 91.9dB $\mu$ 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 94.9dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.927\text{mW}$

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

Conducted Power = 0.927mW.

The SAR Exclusion Threshold Level:  
 $= 3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}} = 3.0 * 5 / \sqrt{2.475} \text{ mW} = 9.53 \text{ mW}$

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.