Analysis Report

The Equipment Under Test (EUT) is a 2.4GHz Controller for RC car operated at 2413-2475MHz with 1MHz Channel Spacing. The EUT is powered by 3 X 1.5V Rechargeable battery. 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: 0Bi Nominal rated field strength: 96.9dBµV/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 99.9dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 2.932$ mw

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

Conducted Power = 2.932mW.

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / 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.