## **Analysis Report**

The Equipment Under Test (EUT) is a portable 2.4GHz Pure Transmitter (Controller Unit) for a RC Car from 2405-2465MHz with 1MHz channel spacing. The EUT is powered by 2 X 1.5V AA batteries. After switch on the EUT, the car 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: 87.0dBµV/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  $90.0dB\mu V/m$  at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 0.30 \text{mW}$ 

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

Conducted Power = 0.30mW.

The SAR Exclusion Threshold Level: = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 \* 5 / sqrt (2.465) mW = 9.55 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.