

# Analysis Report

The Equipment Under Test (EUT) operates at frequency range of 2405MHz to 2475MHz with 1MHz spacing for 71 channels

The EUT is power by 1x 1.5V AAA battery.

After switch on the EUT, model: DS-2018B, the car will be moved forward or backward, turned left or right based on the joystick control in the controller.

**Antenna Type: Internal antenna**

**Antenna Gain: 0dBi**

**Maximum allowed field strength range is from 97.4 dB $\mu$ V/m at 3m**

**Maximum allowed field strength of production tolerance: +/- 6dB**

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 103.4dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS * D)^2 * 1000 / 30] = 6.56mW$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 6.56mW.

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.