Analysis Report

The Equipment Under Test (EUT) is portable controller for Remote controlled car set which operates at 27.145MHz. The EUT is power by 1 x 9.0V Alkaline battery.

After switch on the EUT, the car will be moved forward or backward, turned left or right based on the joystick control in the controller.

The Model: 85476, 85576 and 5F633FA are the same as the Model: 85376 in hardware aspect. The difference in model number serves as marketing strategy. The models are different in non-conductive outer casing of corresponding car only.

Antenna Type: dedicated

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Antenna Gain: 0dBi

Nominal rated field strength is 67.2 dBµV/m at 3m Maximum allowed production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was $70.2 dB\mu V/m$ at 3m in frequency 0.027145 GHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 0.003 \text{mW}$

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

Conducted Power $= 0.003 \,\mathrm{mW}$.

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (0.027145) mW
- = 91.04 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.