Analysis Report

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (controller) operating at the frequency range of 2411-2472MHz with the following frequency table.

04441411	04401411-	04000411-	0.400041.1-	04041411-
2411MHz	2413MHz	2420MHz	2422MHz	2424MHz
2426MHz	2428MHz	2435MHz	2437MHz	2439MHz
2441MHz	2443MHz	2445MHz	2451MHz	2453MHz
2455MHz	2457MHz	2461MHz	2468MHz	2470MHz
2472MHz				

The EUT is powered by 4*1.5V AA battery. By activating the slide bar, the EUT will be able to control the speed of the plane.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 88.9dBµV/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 $91.9dB\mu V/m$ at 3m in frequency 2.4GHz, thus;

The EIRP =
$$[(FS*D)^2*1000 / 30] = 0.465$$
mw

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

Conducted Power =0.465mW.

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.