## INTERTEK TESTING SERVICES

## **RF Exposure**

The Equipment under Test (EUT) is a Control unit for 1:10 Radio Control Vehicle Collection model: 81019 (14047/81021) operating at 2.4GHz band. It is powered by DC 7.4V (1 x 7.4V rechargeable battery). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -1.0dBm (tolerance: +/-4dB).

The normal conducted output power is -1.0dBm (tolerance: +/- 4dB).

Modulation Type: GFSK.

## According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 94.0dBµV/m at 3m in the frequency 2440MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -1.23dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $91.2dB\mu V/m$  at 3m in the frequency 2404MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = -4.03dBm which is within the production variation.

The maximum conducted output power specified is 3.0dBm = 2.0mW
The source- based time-averaging conducted output power
=2.0 \* Duty Cycle mW < 2.0mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.479) mW
- $= 9.5 \, \text{mW}$

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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