## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a RC Car operating at 2.4G Band. The EUT can be powered by DC 7.4V (1 x 7.4V Rechargeable battery). Once use the USB cable charging to the EUT, the wireless function will be disabled. 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: -23.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -23.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

## According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $71.9 dB\mu V/m$  at 3m in the frequency 2432MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -23.33dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $70.1dB\mu V/m$  at 3m in the frequency 2463MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -25.13dBm which is within the production variation.

The maximum conducted output power specified is -20.0dBm= 0.010mW

The source- based time-averaging conducted output power
=0.010mW

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.463) mW
- = 9.56 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.

FCC ID: 2ARXWSINOVAN12