## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is an Toy RC Baja Street Racer operating at 2.4G Band. The EUT can be powered by DC 9.0V ( $6 \times 1.5V$  AAA batteries). And the RF function will be shut down and it can't transmit RF signals while charging. 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: -2.0dBm (tolerance: +/- 3dB). The normal conducted output power is -2.0dBm (tolerance: +/- 3dB). Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 93.4 dB $\mu$ V/m at 3m in the frequency 2420MHz The EIRP = [(FS\*D) ^2 / 30] mW = -1.83dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $90.7dB\mu V/m$  at 3m in the frequency 2471MHz The EIRP = [(FS\*D) ^2 / 30] mW = -4.53dBm which is within the production variation.

The maximum conducted output power specified is 1.0dBm= 1.259mW The source- based time-averaging conducted output power =1.259mW

The SAR Exclusion Threshold Level: = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 \* 5 / sqrt (2.471) mW = 9.54 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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