## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is an Flybar 12v Bumper Car operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AAA batteries). For more details information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -27.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -27.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is  $68.2 dB\mu V/m$  at 3m in the frequency 2420 MHz

The EIRP =  $[(FS*D)^2 / 30] \text{ mW} = -27.03 \text{dBm}$ 

which is within the production variation.

The Minimum peak radiated emission for the EUT is 66.5dBµV/m at 3m in the frequency 2470MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -28.73dBm which is within the production variation.

The maximum conducted output power specified is -24.0dBm= 0.004mW
The source- based time-averaging conducted output power
=0.004mW

The SAR Exclusion Threshold Level:

= 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 \* 5 / sqrt (2.470) 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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