INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Toy RC Hobby Lite Truck 1:10 12MPH operating at 2.4G Band. The EUT can be powered by DC 9.0V (1 x 9.0V 6F22 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: -6.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -6.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $90.1 \, dB\mu V/m$ at 3m in the frequency 2404MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -5.13dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $88.9 dB\mu V/m$ at 3m in the frequency 2440MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -6.33dBm which is within the production variation.

The maximum conducted output power specified is -3.0dBm=0.501mW The source- based time-averaging conducted output power =0.501* Duty cycle mW <0.501 mW(Duty cycle <100%)

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 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 0.53333ms Effective period of the cycle = 150.72μ s = 0.15072ms DC = 0.15075ms / 0.53333ms = 0.2826 or 28.26%

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