INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Jambrites – Monkey with Bluetooth function operating at 2.4G Band. The EUT can be powered by DC 3.7V(1 x 3.7V rechargeable battery). For more detail information pls. refer to the user manual.

Bluetooth Version: 4.2 (single mode) Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -15.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -15.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK, π/4-DQPSK, 8-DPSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $79.4\,$ dB μ V/m at 3m in the frequency 2441MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -15.83dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $78.8\,$ dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -16.43dBm which is within the production variation.

The maximum conducted output power specified is -12dBm= 0.063mW
The source- based time-averaging conducted output power
=0.063* Duty cycle mW <0.063 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.480) 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.

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