

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a transmitter for a Remote Control Water Toy operating at 27.145 MHz which is controlled by a crystal. The EUT is powered by two 1.5 V AA batteries. For more detail information pls. refer to the user manual.

Antenna Type: dedicated antenna

Antenna Gain: 0dBi

Modulation Type: Pulse modulation

The nominal conducted output power specified: -34.0dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -36.15dBm (+/- 3dB)

According to the KDB 447498 D04 v01:

The worst-case peak radiated emission for the EUT is 61.2dBuV/m at 3m in the frequency 27.145MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -34.03dBm

The ERP = EIRP - 2.15 = -36.18dBm

which is within the production variation.

The maximum conducted output power specified is -31.0dBm = 0.0008mW

The source-based time-averaging conducted output power = 0.0008mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level of 1mW, so the EUT is considered to comply with SAR requirement without testing.

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