

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a transmitter for a Remote Control Water Toy operating at 49.860 MHz which is controlled by a crystal. The EUT is powered by two 1.5V AA batteries. For more detail information pls. refer to the user manual.

Antenna Type: integral antenna

Antenna Gain: 0dBi

Modulation Type: Pulse modulation

The nominal conducted output power specified: -38.0dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -40.15dBm (+/- 3dB)

According to the KDB 447498 D04 v01:

The worst-case peak radiated emission for the EUT is 57.2dBuV/m at 3m in the frequency 49.86MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -38.03dBm

The ERP = EIRP - 2.15 = -40.18dBm

which is within the production variation.

The maximum conducted output power specified is -35dBm = 0.0003mW

The source-based time-averaging conducted output power
= 0.0003mW

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.

FCC ID: 2BGA7N2030637-49