

# INTERTEK TESTING SERVICES

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## Analysis Report

The equipment under test (EUT) is a transmitter for a PZ Stunt Tumbler RC(49MHZ) 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: -25.0dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -27.15dBm (+/- 3dB)

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is 69.7dBuV/m at 3m in the frequency 49.86MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -25.53dBm

The ERP = EIRP - 2.15 = -27.68dBm

which is within the production variation.

The maximum conducted output power specified is -22.0dBm = 0.0063mW

The source-based time-averaging conducted output power

= 0.0063mW

The SAR Exclusion Threshold Level for 49.860MHz when the minimum test separation distance is < 50mm:

=  $474 \cdot [1 + \log(100/f(\text{MHz}))]/2$

= 308.6 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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