

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a transmitter for a Disney Princess walkietalkie operating at 49.860 MHz which is controlled by a crystal. The EUT is powered by one 9.0V 6F22 battery. EUT has an ON/OFF Switch. Turn the "ON-OFF" switch at the side of the walkie talkies to "ON" position. Press the "Talk" button for transmitting, and speak in a normal voice level into the speaker/microphone. For more detail information pls. refer to the user manual.

Antenna Type: dedicated antenna

Antenna Gain: 0dBi

Modulation Type: AM modulation

The nominal conducted output power specified: -35.0dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -37.15dBm (+/- 3dB)

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is 59.6dBuV/m at 3m in the frequency 49.86MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -35.63dBm

The ERP = EIRP - 2.15 = -37.78dBm

which is within the production variation.

The maximum conducted output power specified is -32.0dBm = 0.00063mW

The source-based time-averaging conducted output power

= 0.00063 * Duty Cycle mW = 0.00063mW (Duty Cycle=100%)

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.

The EUT is transmitting continuously and the duty cycle is 100%.

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