INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Rock Clawer operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -4.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -4.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $91.9 dB\mu V/m$ at 3m in the frequency 2467 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -3.33dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $90.6dB\mu V/m$ at 3m in the frequency 2434MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -4.63dBm which is within the production variation.

The maximum conducted output power specified is -1.0dBm= 0.794mW
The source- based time-averaging conducted output power
=0.794mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.467) mW

 $= 9.55 \, \text{mW}$

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.

FCC ID: 2AHUVYPT0005