

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a 26001 1:64 Radio Control Cat 336 Hydraulic Excavator operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AAA 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: -9.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -9.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 86.8dB $\mu$ V/m at 3m in the frequency 2440MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -8.43dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 84.9dB $\mu$ V/m at 3m in the frequency 2475MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -10.33dBm  
which is within the production variation.

The maximum conducted output power specified is -6dBm= 0.251mW

The source- based time-averaging conducted output power  
=0.251mW

The SAR Exclusion Threshold Level:

=  $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$   
=  $3.0 * 5 / \sqrt{2.475}$  mW  
= 9.54 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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FCC ID: 2AUJF-26000