

INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is a Nixie Clock with Wi-Fi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 2422-2452MHz for 802.11n-HT40, 7 channels with 5MHz channel spacing. The EUT is powered by DC 5.0V from adapter. For more detailed features description, please refer to the user's manual.

Type of Modulation: DSSS/CCK, OFDM.

Antenna Type: Integral antenna

Antenna Gain: 2.43dBi (This information is provided by applicant, and the applicant is responsible for the authenticity of the provided information.)

The nominal conducted output power specified: 6dBm (Tolerance: +/-3dB).

According to the KDB 447498 V06:

The maximum conducted output power for the EUT is 9.0dBm in the frequency 2412MHz(IEEE 802.11g) which is within the production variation.

The minimum conducted output power for the EUT is 6.23dBm in the frequency 2452MHz(IEEE 802.11n-HT40) which is within the production variation.

The maximum conducted output power specified is 9.0dBm = 7.943mW

The source-based time-averaging conducted output power
= 7.943mW

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

= $3.0 * 5 / \sqrt{2.462}$ mW

= 9.56 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: 2BMCV-CL-HP-NIXIE