

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a J-BOX operating at 915.95MHz – 927.00MHz. The EUT was powered by AC 120V, 60Hz. For more detail information pls. refer to the user manual.

Modulation Type: FSK

Antenna Type: Integral antenna

Antenna Gain: 2dBi

The nominal conducted output power specified: 7.0dBm (Tolerance: +/- 2dB)

According to the KDB 447498:

The maximum conducted output power for the EUT is 7.76dBm in the frequency 915.95MHz which is within the production variation.

The minimum conducted output power for the EUT is 7.82dBm in the frequency 927.00MHz which is within the production variation.

The maximum conducted output power specified is 9dBm = 7.94mW

The source-based time-averaging conducted output power

= 7.94 * Duty cycle mW = 1.0 mW

The SAR Exclusion Threshold Level:

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

= $3.0 * 5 / \sqrt{0.927}$ mW

= 15.6 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.

Transmitter Duty Cycle Calculation

The duration of one cycle = 598.7ms

Effective period of the cycle = 75.362ms

DC = 75.362ms / 598.7ms = 0.1259 or 12.59%