

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a Portable Handy Scanner. The EUT was powered by The EUT can be powered by 3.7Vdc rechargeable battery and charged by Adapter (The Adapter was powered by AC 120V/60Hz). For more detail information pls. refer to the user manual.

Modulation Type: BPSK, QPSK, 16QAM, 64QAM, CCK, DQPSK, DBPSK.

Antenna Type: Integral antenna

Antenna Gain: 3.47dBi

The nominal conducted output power is 6.5dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximum peak conducted output power for the EUT is 9.36dBm in the frequency 2452MHz (802.11 n-HT40) which is within the product variation.

The minimum peak conducted output power for the EUT is 8.34dBm in the frequency 2412MHz (802.11g) which is within the production variation.

The maximum conducted output power specified is 9.5dBm = 8.91mW

The source-based time-averaging conducted output power
= 8.91 * Duty Cycle mW = 8.91 mW

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

= 9.6 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 EUT transmit continuously during the test, the duty cycle is 1.

This requirement is according to KDB 865664 D02