

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Portable Scanner with WiFi function. The EUT was powered by DC6V (4 x 1.5V AAA batteries) or DC9V (6 x 1.5V AA batteries) or power by USB port. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

The nominal conducted output power specified: 5dBm +/-3dB.

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

According to the KDB 447498:

The maximum peak conducted output power for the EUT is 6.52dBm in the frequency 2412MHz (802.11n-HT20) which is within the product variation.

The minimum peak conducted output power for the EUT is 5.62dBm in the frequency 2462MHz (802.11b) which is within the production variation.

The maximum conducted output power specified is 8dBm = 6.3mW

The source-based time-averaging conducted output power
= 6.3 * Duty cycle mW = 6.3 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
= 9.56 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.

Transmitter Duty Cycle Calculation

The EUT transmit continuously during the test, the duty cycle is 100%.

This requirement is according to KDB 865664 D02

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