

INTERTEK TESTING SERVICES

Analysis Report

The Equipment Under Test (EUT) is a camera with WiFi 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 was powered by DC 3.8V internal rechargeable battery. For more detail information pls. refer to the user manual.

Modulation Type: BPSK, QPSK, 16QAM, 64QAM, CCK, DQPSK, DBPSK
Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal radiated output power (e.i.r.p) specified: 8dBm (Tolerance: +/-1.2dB)
The nominal conducted output power specified: 8dBm (Tolerance: +/-1.2dB)

According to the KDB 447498:

The maximum conducted emission for the EUT is 9.1dBm at the frequency 2.452GHz in 802.11n-HT40 which is within the production variation

The minimum conducted emission for the EUT is 7.1dBm for at the frequency 2.412GHz in 802.11b which is within the production variation

The maximum conducted output power specified is 9.2dBm = 8.3mW
The source- based time-averaging conducted output power
= $8.3 \times \text{Duty cycle mW} = 8.3 \text{ mW} \times 1 = 8.3 \text{ mW}$

The SAR Exclusion Threshold Level:
= $3.0 \times (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$
= $3.0 \times 5 / \sqrt{2.462} \text{ mW}$
= 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.