

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a Dongle. The EUT was powered by USB port of PC. For more detail information please refer to the user manual.

Modulation Type: GFSK.

Antenna Type: Integral antenna

Antenna Gain: -4.61dBi.

The nominal conducted output power specified: -2.0dBm (Tolerance: +/- 3dB)

The nominal radiated output power (EIRP) specified: -6.61dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 89.4dBμV/m at 3m in the frequency 2.403GHz

= $[(FS \cdot D)^2 / 30]$ mW

= -5.8dBm which is within the production variation.

The minimum radiated emission for the EUT is 88.1dBμV/m at 3m in the frequency 2.478GHz

= $[(FS \cdot D)^2 / 30]$ mW

= -7.1dBm which is within the production variation.

The maximum conducted output power specified is 1.0dBm = 1.3mW

The source-based time-averaging conducted output power

= 1.3 * Duty cycle mW = 1.3 mW

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \sqrt{2.478}$ mW

= 9.5 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.