

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a PINK Mini Dog Bluetooth Speaker with Bluetooth FHSS technology operating in 2402-2480MHz. The EUT is powered by Rechargeable battery (DC 3.7V) which can be charged by USB port (DC 5V, 0.5A). For more detail information pls. refer to the user manual.

Modulation Type: GFSK, $\pi/4$ -DQPSK and 8-DPSK

Bluetooth Version: 4.2 without BLE

Antenna Type: Integral antenna

Antenna Gain: 0 dBi

The nominal conducted output power specified: -9.0dBm (Tolerance: +/-3dB)

The nominal radiated output power (e.i.r.p) specified: -9.0dBm (Tolerance: +/-3dB)

According to the KDB 447498:

The maximum conducted emission for the EUT is -11.40dBm at the frequency 2.402GHz which is within the production variation

The minimum conducted emission for the EUT is -11.56dBm for at the frequency 2.480GHz which is within the production variation

The maximum conducted output power specified is -6.0dBm = 0.25mW

The source- based time-averaging conducted output power
 $= 0.25 * \text{Duty cycle mW} \leq 0.25 \text{ mW}$

The SAR Exclusion Threshold Level:

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

$= 3.0 * 5 / \sqrt{2.480} \text{ mW}$

$= 9.53 \text{ mW}$

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.