

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a TRUE WIRELESS EARBUDS + Qi CHARGING CASE with Bluetooth 5.3 (Dual Mode EDR & BLE) function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery. Once the earbuds are plugged in the charging case, the earbuds automatically shut down, the Bluetooth function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

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

Antenna Gain: 3.0dBi Max

According to the KDB 447498 D04 Interim General RF Exposure Guidance v01 (D01 447498 General RF Exposure Guidance v07):

For EDR mode

The Maximum peak radiated emission for the EUT is 92.9 dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -2.3dBm

which is within the production variation.

The maximum conducted output power specified is -5.0dBm = 0.316mW

The source- based time-averaging conducted output power = $0.316 \cdot \text{Duty cycle}$ mW < 0.316 mW (Duty cycle < 100%)

For BLE mode

The Maximum peak radiated emission for the EUT is 90.4 dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -4.8dBm

which is within the production variation.

The maximum conducted output power specified is -7.0dBm = 0.200mW

The source- based time-averaging conducted output power = $0.200 \cdot \text{Duty cycle}$ mW < 0.200 mW (Duty cycle < 100%)

The SAR Exclusion Threshold Level:

1-mW Test Exemption:

Since the source-based time-averaging conducted output power is well below 1-mW Test Exemption, per 447498 and §1.1307(b)(3)(i)(A), the EUT is considered to comply with SAR requirement without testing and no evaluation is required.