

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a BLUETOOTH RECEIVER model HEADPHONE SPLITTER which has Bluetooth function. It is powered by DC 3.7V, 250mAh rechargeable battery which can be charged by DC 5V USB port . For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

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

The nominal conducted output power specified: -1dBm (Tolerance: ± 5 dB)

The nominal radiated output power specified: 1dBm (Tolerance: ± 5 dB)

The maximum Radiated output power for the EUT is -0.4dBm in the frequency 2402MHz of BT4.1 which is within the production variation.

The minimum Radiated output power for the EUT is -4.3dBm in the frequency 2480MHz of BT4.1 which is within the production variation.

According to the KDB 447498:

The maximum conducted output power specified is 4.0dBm = 2.5mW

The source- based time-averaging conducted output power

= 2.5 * Duty Cycle mW (where Duty cycle ≤ 1)

≤ 2.5 mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 * 5 / sqrt (2.480) mW

= 9.53 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.