INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Bluetooth headset with Bluetooth function. The EUT was powered by DC 3.7V Internal rechargeable battery which can be charged by USB Port. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna. Antenna Gain: 0dBi. The nominal conducted output power specified: 0dBm +/-3dB. The nominal radiated output power (e.i.r.p) specified: 0dBm (+/- 3dB)

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

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is $94.0dB\mu V/m$ at 3m in the frequency 2480MHzThe EIRP = [(FS*D) ^2 / 30] mW = -1.2dBm which is within the production variation.

The maximun conducted output power specified is 3dBm = 2.0mW The source- based time-averaging conducted output power = 2.0 * Duty factor mW= 1.7 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.

Transmitter Duty Cycle Calculation

Based on the Bluetooth Specification (BT version: 3.0 + EDR), transmitter ON time is independent of packet type (DH1, DH3 and DH5) For one period for a pseudo-random hopping through all 79 RF channels, for DH5: One hopset consists of 5 TX slot and 1 RX slot. Duty factor = 5 / 6 = 0.833

This requirement is according to KDB 865664 D02

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FCC ID: Z63-BT304BT307
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