INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Auvio Bluetooth Color Headphone with Bluetooth function. The EUT was powered by the fully-charged DC 3.7V, 400mAh new rechargeable battery which was charged by USB port (DC 5V). For more detail information pls. refer to the user manual.

Modulation Type: GFSK for BT 4.0 BLE and GFSK, π /4DQPSK, 8DPSK for BT 3.0, 2.1+EDR. Bluetooth Version: 4.0 and 3.0, 2.1 with EDR.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: 6.0dBm +/-3dB.

The nominal radiated output power (e.i.r.p) specified: 6.0dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $104.0 dB\mu V/m$ at 3m in the frequency 2440MHz of BT 4.0 BLE The EIRP = [(FS*D) ^2 / 30] mW = 8.77dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $100.8 dB\mu V/m$ at 3m in the frequency 2402 MHz of BT 3.0+EDRThe EIRP = [(FS*D) ^2 / 30] mW = 5.57 dBm which is within the production variation.

The maximun conducted output power specified is 9.0dBm = 7.9mW
The source- based time-averaging conducted output power
= 7.9 * Duty Cycle mW (where Duty Cycle≤100%)

= 7.9 mW

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.480) mW
- = 9.5 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.

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