## **INTERTEK TESTING SERVICES**

## **RF Exposure**

The Equipment under Test (EUT) is an Over Ear Stereo Bluetooth Headset model: BH-940. It is powered by DC 3.7V from Internal rechargeable battery and Charged by AC adapter (Input: AC 100-240V 50-60Hz, 0.2A, Output: DC 5V, 1.3A) or PC USB port. For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0.71dBi.

The nominal conducted output power specified: 4dBm (Tolerance: -4 / +2dB).

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

According to the KDB 447498:

The maximun conducted output power specified is 6dBm = 4.0mW
The source- based time-averaging conducted output power
= 4.0 \* Duty factor mW= 3.33 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), transmitter ON time is independent of packet type (DH1, DH3 and DH5).

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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