## **RF Exposure**

The equipment under test (EUT) is a WIRELESS EARPHONES with BT 5.0 EDR function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery. The EUT cannot transmit during charging. For more detail information pls. refer to the user manual.

Modulation Type: GFSK,  $\pi$  /4-DQPSK and 8-DPSK Bluetooth Version: 5.0 (Single Mode EDR)

Antenna Type: Integral antenna. Antenna Gain: -1.42dBi Max The nominal conducted output power specified: 3dBm (+/-3dB). The nominal radiated output power (e.i.r.p) specified: 1.58dBm (+/- 3dB).

According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $98.9dB\mu V/m$  at 3m in the frequency 2441MHz The EIRP = [(FS\*D) ^2 / 30] mW = 3.67dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $96.6dB\mu V/m$  at 3m in the frequency 2480MHz The EIRP = [(FS\*D) ^2 / 30] mW = 1.37dBm which is within the production variation.

The maximun conducted output power specified is 6dBm = 4mWThe source- based time-averaging conducted output power = 4 \* Duty factor mW (where Duty Factor  $\leq 1$ ) = 4mW

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.