RF Exposure

The equipment under test (EUT) is a Headphone with Bluetooth function. The EUT was powered by Built-in rechargeable 3.7V, 680mAh DC Lithium ion Battery or USB Charing. For more detail information pls. refer to the user manual.

Modulation Type: GFSK for BT 4.0 and GFSK, π/4DQPSK, 8DPSK for BT2.1+EDR
Bluetooth Version: 4.0 and 2.1+EDR, 3.0.

Antenna Type: Integral antenna.
Antenna Gain:-1.0 dBi.
The nominal conducted output power specified: -14.0dBm +/-3dB.
The nominal radiated output power (e.i.r.p) specified: -15.0dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 80.6dBμV/m at 3m in the frequency 2442MHz of BT 4.0
The EIRP = [(FS*D) ^2 / 30] mW = -14.63dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 78.5dBμV/m at 3m in the frequency 2441MHz of BT 3.0+EDR
The EIRP = [(FS*D) ^2 / 30] mW = -16.73dBm
which is within the production variation.

The maximun conducted output power specified is -11.0dBm = 0.08mW
The source- based time-averaging conducted output power
= 0.08 * Duty cycle mW (where Duty cycle≤100%)
<0.1 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.