RF Exposure

The equipment under test (EUT) is a AR BOW with Bluetooth function. The EUT was powered by DC 3V (2 x 1.5V "AAA" battery). For more detail information pls. refer to the user manual.

Modulation Type: GFSK. Bluetooth Version: 4.2 BLE (single mode).

Antenna Type: Integral antenna. Antenna Gain: 1.5dBi. The nominal conducted output power specified: 2.5dBm (+/- 3dB) The nominal radiated output power (e.i.r.p) specified: 4dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $101.8dB\mu V/m$ at 3m in the frequency 2480MHz The EIRP = [(FS*D) ^2 / 30] mW = 6.6dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $100.9dB\mu V/m$ at 3m in the frequency 2440MHz The EIRP = [(FS*D) ^2 / 30] mW = 5.7dBm which is within the production variation.

The maximun conducted output power specified is 5.5dBm = 3.5mW The source- based time-averaging conducted output power = 3.5 * Duty factor mW (where Duty Factor≤1) = 3.5 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.