RF Exposure

The equipment under test (EUT) is a Wireless Keyboard with Bluetooth 5.1 (Single Mode BR) function operating in 2402-2480MHz. The EUT is powered by DC 3.0V (2 x AAA battery). For more detail information pls. refer to the user manual.

Bluetooth Version: 5.1 (Single Mode BR) Antenna Type: Integral antenna Modulation Type: GFSK Antenna Gain: 1.87dBi Max The nominal conducted output power specified: -11.87 dBm (±3dB) The nominal radiated output power (e.i.r.p) specified: -10.0 dBm (±3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $86.8dB\mu V/m$ at 3m in the frequency 2480MHz The EIRP = [(FS*D) ^2 / 30] mW = -8.43 dBm

which is within the production variation.

The minimum peak radiated emission for the EUT is $82.9dB\mu V/m$ at 3m in the frequency 2402MHz The EIRP = [(FS*D) ^2 / 30] mW = -12.33dBm which is within the production variation.

The maximun conducted output power specified is -8.87 dBm = 0.130 mW The source- based time-averaging conducted output power = 0.130 * Duty factor mW (where Duty Factor ≤ 1) = 0.130 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.