RF Exposure

The equipment under test (EUT) is a Candy Con Gaming Controller with Bluetooth 5.0 EDR function operating in 2402-2480MHz. The EUT is powered by DC 3.7V with battery which can be charged by USB port DC 5V 0.5A. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna
Modulation Type: GFSK
Antenna Gain: 0 dBi
Bluetooth Version: 5.2 EDR (Single Mode)
The nominal conducted output power specified: -9 dBm (±3dB)
The nominal radiated output power (e.i.r.p) specified: -9 dBm (±3dB)

According to the KDB 447498 V07:

The Maximum peak radiated emission for the EUT is 89.1 dBμV/m at 3m in the frequency 2402MHz
The EIRP = [(FS*D) ^2 / 30] mW = -6.13dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 83.5 dBμV/m at 3m in the frequency 2441MHz
The EIRP = [(FS*D) ^2 / 30] mW = -11.73dBm
which is within the production variation.

The maximum conducted output power specified is -6dBm= 0.251mW

The source- based time-averaging conducted output power
= 0.251 * Duty factor mW (where Duty Factor≤1)
= 0.251mW

1-mW Test Exemption:

Since the source-based time-averaging conducted output power is well below 1-mW Test Exemption, per KDB 447498 V07 and §1.1307(b)(3)(i)(A), the EUT is considered to comply with SAR requirement without testing and no evaluation is required.