## **RF Exposure**

The equipment under test (EUT) is a MEKAMONBERSERKER-BLK-USA (SKU:MB-BLK-US-01) with Bluetooth function operated at 2.4GHz band. The EUT is powered by DC 11.1V (1 x 11.1V rechargeable battery). It can't use Bluetooth function while charging. For more detail information pls. refer to the user manual.

Modulation Type: GFSK Bluetooth Version: 4.0 BLE(single mode) Antenna Type: Integral antenna. Antenna Gain: 0dBi. The nominal conducted output power specified: -16.0dBm (+/-3dB). The nominal radiated output power (e.i.r.p) specified: -16.0dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $80.1dB\mu$ V/m at 3m in the frequency 2402MHz The EIRP = [(FS\*D) ^2 / 30] mW = -15.13dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $78.1dB\mu$ V/m at 3m in the frequency 2480MHz The EIRP = [(FS\*D) ^2 / 30] mW = -17.13dBm which is within the production variation.

The maximun conducted output power specified is -13dBm = 0.05mWThe source- based time-averaging conducted output power = 0.05 \* Duty factor mW (where Duty Factor  $\leq 1$ ) = 0.05 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.