

## Analysis Report

The equipment under test (EUT) is a Movband 3 with BT 4.1 with BLE function operating in 2402-2480MHz. The EUT can record the distance of movement that the user has travelled, the logged data can be either transferred to Tablet/smartphone/PC via wireless Bluetooth link or USB interface. The EUT is powered by DC3.7V rechargeable battery . And the USB port is also for charging. For more detail information pls. refer to the user manual.

Modulation Type: GFSK

Bluetooth Version: 4.1 with BLE

Antenna Type: FPC (Gain: 0 dBi)

The nominal conducted output power specified: -5dBm (Tolerance: +/- 3dB)

The nominal radiated output power (e.i.r.p) specified: -5dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 91.0dB $\mu$ V/m at 3m in the frequency 2.402GHz

=  $[(FS^*D)^2 / 30] \text{ mW}$

= -4.2 dBm which is within the production variation.

The minimum radiated emission for the EUT is 87.7dB $\mu$ V/m at 3m in the frequency 2.480GHz

=  $[(FS^*D)^2 / 30] \text{ mW}$

= -7.5dBm which is within the production variation.

The maximum conducted output power specified is -2.0 dBm = 0.63mW

The source- based time-averaging conducted output power

=  $0.63 * \text{Duty cycle mW} = 0.63 \text{ mW (Duty Cycle} \leq 100\%)$

The SAR Exclusion Threshold Level:

=  $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt(freq. in GHz)}$

=  $3.0 * 5 / \text{sqrt (2.480)} \text{ mW}$

= 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.