

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a BAB26 HUTTLET with BLE 6.0 function operating in 2402-2480MHz. The EUT is powered by DC 6.0V (4 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 4.77dBi Max

Bluetooth Version: 6.0 (BLE Single Mode)

The normal radiated output power (e.i.r.p) is: -5.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -9.77dBm (tolerance: +/- 3dB).

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 91.3dBμV/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -3.93dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 88.6dBμV/m at 3m in the frequency 2480MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -6.63dBm

which is within the production variation.

The maximum conducted output power specified is -6.77dBm= 0.210mW

The source- based time-averaging conducted output power
=0.210mW

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \text{sqrt}(2.480)$ 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.