

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a HOVERBOARD operating in 2402-2480MHz. The EUT is operated by DC 36V from rechargeable battery and charged by 42V through adapter. For more information please refer to the user manual.

Antenna Type: Integrated antenna

Modulation Type: GFSK

Antenna Gain: 0 dBi

Bluetooth Version: 5.3 BLE (Single Mode)

The nominal conducted output power specified: 0.37 dBm (± 2 dB)

The nominal radiated output power (e.i.r.p) specified: 0.37 dBm (± 2 dB)

According to the KDB 447498 V07:

The Maximum peak radiated emission for the EUT is 97.6 dB μ V/m at 3m in the frequency 2440MHz

The EIRP = $[(FS * D)^2 / 30]$ mW = 2.37dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 96.2 dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS * D)^2 / 30]$ mW = 0.97dBm
which is within the production variation.

The maximum conducted output power specified is 2.37dBm= 1.726 mW

Mode	Distance from ANT (mm)	Max. tune-up Power (mW)	Exemption with Max. Allowed Power (1g.mW)	SAR Test
BLE	5	1.726mW	2.8	N/A

Since max. conducted output power and effective radiated power (ERP) is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.