

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Bluetooth Module with Bluetooth 4.2 (BLE single mode) function operating in 2402-2480MHz. The EUT is powered by DC 3.3V. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 0.5dBi Max

Bluetooth Version: 4.2 BLE (Single Mode)

The normal conducted output power is 6.0dBm (tolerance: +/- 3dB).

According to the KDB 447498 V06:

The maximum conducted output power for the EUT is 8.81dBm in the frequency 2.480GHz which is within the production variation.

The minimum conducted output power for the EUT is 8.73dBm in the frequency 2.402GHz which is within the production variation.

The maximum conducted output average power specified is 9.0dBm= 7.943mW
The source- based time-averaging conducted output power
=7.943 mW

The SAR Exclusion Threshold Level:
= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$
= $3.0 * 5 / \text{sqrt}(2.480)$ 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.

FCC ID: 2ABEU-EF-R32-RSA2