

INTERTEK TESTING SERVICES

RF Exposure report

The Equipment Under Test (EUT) is a Bluetooth Module with Bluetooth function operating at 2402-2480MHz, 40 channels with 2MHz channel spacing. The EUT was powered by DC 3.8V. For more detailed features description, please refer to the user's manual.

Antenna Type: Integral antenna.

Antenna Gain: 1.0dBi

Modulation Type: GFSK.

The nominal conducted output power specified: -5.4dBm +/-3dB.

The nominal radiated output power (EIRP) specified: -4.4dBm +/-3dB.

The maximum tested radiated output power for the EUT is -1.43dBm in the frequency 2.402GHz which is within the production variation.

The minimum tested radiated output power for the EUT is -2.33dBm in the frequency 2.440GHz mode which is within the production variation.

According to the KDB 447498, the simple calculation as below:

The maximum conducted output power specified is -1.4 dBm = 0.7 mW

The source-based time-averaging conducted output power

= 0.7 * Duty Cycle mW = 0.7mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 * 5 / sqrt (2.480) mW

= 9.5 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.

Transmitter Duty Cycle Calculation

The test signal of the EUT is Continuous emission, so the Duty Cycle is 100%.