

INTERTEK TESTING SERVICES

RF Exposure Report

The equipment under test (EUT) is a Huawei RCU R22 with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3V from 2*AAA battery. For more detail information pls. refer to the user manual.

Modulation Type: GFSK

Bluetooth Version: 4.2(only BLE)

Antenna Type: Integral antenna

Antenna Gain: 0dBi Max

The normal conducted output power specified: -6dBm to 4dBm

According to the KDB 447498:

The maximum conducted output power for the EUT is -1.58dBm in the frequency 2402MHz of BLE, which is within the production variation.

The minimum conducted output power for the EUT is -1.97 in the frequency 2480MHz of BLE, which is within the production variation.

The maximum conducted output power specified is 4dBm = 2.512mW

The maximum source-based time-averaging conducted output power

= 2.512 * Duty factor mW (where Duty Factor ≤ 1)

= 2.512 mW

The SAR Exclusion Threshold Level:

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

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

= 9.53 mW

Since the maximum 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.