

INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is a MediaQ RCU, Model: MediaQ RCU M2 with internal Bluetooth 4.0 function operating at 2402-2480MHz, 40 channels with 2MHz channel spacing. The EUT was powered by 3Vdc (2 x AAA batteries). For more detailed features description, please refer to the user's manual.

Antenna Type: Integral antenna.

Antenna Gain: <3dBi.

The nominal conducted output power specified: 4dBm +/-2dB.

Modulation Type: GFSK

According to the KDB 447498:

The maximum peak conducted output power for the EUT is 3.98dBm in the frequency 2442MHz which is within the product variation.

The minimum peak conducted output power for the EUT is 2.84dBm in the frequency 2402MHz which is within the production variation.

The maximum E.I.R.P= 4+2+3=9dBm=7.943mW

The source- based time-averaging conducted output power
= 7.943 * Duty factor mW= 7.943 mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.480) mW

= 9.525 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 EUT transmit continuously during the test, the duty cycle is 1.

This requirement is according to KDB 865664 D02

FCC ID: QISRCUM2