

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Portable Outdoor Bluetooth Speaker with Weather Radio with Bluetooth FHSS technology operating in 2402-2480MHz. The EUT is powered by built -in Rechargeable battery or DC 5V for Micro USB For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: -0.58 dBi Max

The nominal conducted output power specified: -2.42 dBm ( $\pm 2$ dB)

The nominal radiated output power (e.i.r.p) specified: -3dBm ( $\pm 2$ dB)

The maximum conducted output power for the EUT is -0.68dBm in the frequency 2480MHz which is within the production variation.

The minimum conducted output power for the EUT is -1.01dBm in the frequency 2402MHz which is within the production variation.

According to FCC Part 2.1091, this unlicensed transmitting devices is categorically excluded from routine environmental evaluation for RF exposure prior to equipment authorization or use, According to the KDB 447498, the simple calculation as below:

The source - based time averaged maximum radiated power = -1dBm = 0.794mW

### **1-mW Test Exemption:**

Since the source-based time-averaging conducted output power is well below 1-mW Test Exemption, per 447498 and §1.1307(b)(3)(i)(A), the EUT is considered to comply with SAR requirement without testing and no evaluation is required.