

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a ONN LARGE RUGGED SPEAKER BLACK with Bluetooth 6.0 (Dual Mode) function operating in 2402-2480MHz. The EUT is powered by Input: 5V/2A. For more detail information pls. refer to the user manual.

Bluetooth Version: 6.0 (Dual Mode)

Modulation Type: GFSK, $\pi/4$ -DQPSK and 8-DPSK

Antenna Type: Integral antenna.

Antenna Gain: 0.79dBi.

The nominal conducted output power specified: -2.79dBm (+/-2dB).

The nominal radiated output power (e.i.r.p) specified: -2dBm (+/- 2dB).

According to the KDB 447498 D04 V01:

The maximum peak radiated emission for the EUT is 93.1dB μ V/m at 3m in the frequency 2402MHz (BLE mode)

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -2.13dBm

which is within the production variation.

The minimum peak radiated emission for the EUT is 91.6dB μ V/m at 3m in the frequency 2480MHz (BLE mode)

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -3.63dBm

which is within the production variation.

The maximum conducted output power specified is -0.79dBm = 0.83 mW

The source- based time-averaging conducted output power
= 0.83 mW

1-mW Test Exemption:

Since the source-based time-averaging conducted output power is well below 1-mW Test Exemption, per KDB 447498 D04 V01 and §1.1307 (b) (3) (i) (A), the EUT is considered to comply with SAR requirement without testing and no evaluation is required.