

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Vase with Bluetooth 5.2 (Single Mode EDR) function operating in 2402-2480MHz. The EUT is powered by DC 4.5V (3 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

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

Antenna Gain: 0dBi Max

Bluetooth Version: 5.2 (Single Mode EDR)

The normal radiated output power (e.i.r.p) is: -8.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -8.0dBm (tolerance: +/- 3dB).

According to the KDB 447498 D01 V06:

The Maximum peak radiated emission for the EUT is 88.0dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS^*D)^2 / 30] \text{ mW} = -7.23\text{dBm}$
which is within the production variation.

The Minimum peak radiated emission for the EUT is 85.8dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS^*D)^2 / 30] \text{ mW} = -9.43\text{dBm}$
which is within the production variation.

The maximum conducted output power specified is -5.0dBm= 0.316mW

The source- based time-averaging conducted output power
=0.316mW

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt(freq. in GHz)}$
= $3.0 * 5 / \text{sqrt}(2.480) \text{ mW}$
= 9.54 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.

FCC ID: SME221023