INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a G-GO (G-500) Bluetooth Wireless Speaker with Bluetooth 5.1 EDR function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by battery which can be charged by DC 5V/1A through adapter input. For more detail information pls.

Antenna Type: Integral antenna

Modulation Type: GFSK, p/4-DQPSK, 8DPSK

Antenna Gain: -0.59 dBi Max

The nominal radiated output power (e.i.r.p) specified: -5.0dBm (+/-2dB) The nominal conducted output power specified: -4.41dBm (+/-2dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $90.3~dB\mu V/m$ at 3m in the frequency 2441MHz

The EIRP = $[(FS*D) ^2 / 30] \text{ mW} = -4.93 \text{dBm}$

which is within the production variation.

The minimum peak radiated emission for the EUT is $88.5~dB\mu V/m$ at 3m in the frequency 2402MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -6.73dBm which is within the production variation.

The maximun conducted output power specified is -2.41dBm = 0.57 mW

The source- based time-averaging conducted output power

= 0.57 * Duty factor mW (where Duty Factor≤1)

= 0.57 mW

The SAR Exclusion Threshold Level: $P_{th}(\text{mW}) = \text{ERP}_{20\text{cm}} * (d/20\text{cm})^x \quad (X = 0)$ $= 3060 * (0.5/20)^{1.9} \text{ mW}$ = 2.72 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: AUIG500