INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Sharper Image ANC Headphone with Bluetooth 5.2 EDR function operating in 2402-2480MHz. The EUT is powered by DC 3.7V for rechargeable battery or powered by USB-C port. The wireless function will be disable when the product is charged. For more detailed features description, please refer to the user's manual.

Bluetooth Version: 5.2 EDR Antenna Type: Integral antenna Antenna Gain: 2.49 dBi max

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

The nominal conducted output power specified: -2.49dBm (+/-3dB). The nominal radiated output power (e.i.r.p) specified: 0dBm (+/- 3dB).

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $\,97.2\,$ dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 1.97dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $\,$ 94.1 $\,$ dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS*D)^2 / 30]$ mW = -1.13dBm which is within the production variation.

The maximum E.I.R.P specified is 3dBm= 1.995mW
The maximum ERP specified is 0.85dBm= 1.216mW

The SAR Exclusion Threshold Level:

$$P_{\text{th}}(\text{mW}) = \text{ERP}_{20\text{cm}} * (d/20\text{cm})^{x}$$
 (X= $-\log_{10} \left(\frac{60}{ERP_{20} \text{ cm}\sqrt{f}}\right)$)
$$= 3060 * (0.5/20)^{1.9} \text{ mW}$$

$$= 2.72 \text{ mW}$$

Since max. power of the source-based time-averaging conducted output power and effective radiated power (ERP) is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

FCC ID: 2AEVM1014697