

# FCC RF Exposure

EUT Description: headphones

Model No.: L50 ANC

FCC ID: **2BGI5-L50ANC**

## 1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1 - g and 10 - g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  
$$[(\text{max power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1 - g SAR and  $\leq 7.5$  for 10 - g extremity SAR,

Where:

Result= $P/D \cdot \sqrt{F}$

F= the RF channel transmit frequency in GHz

P=Maximum turn - up power in mw

D=Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

| Frequency (MHz) | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power (dBm/mW) | Min test separation distance (mm) | Result | Limit (mW/cm <sup>2</sup> ) | SAR Test Exclusion |
|-----------------|--------------------|---------------------|----------------------------|-----------------------------------|--------|-----------------------------|--------------------|
| 2441            | 3.58               | 3 ± 1               | 4/2.512                    | 5                                 | 0.785  | 3.0                         | Pass               |

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2405092295-E**, antenna gain= 1.9dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.785 which is  $\leq 3$ , RF Exposure testing is not required.

Note: Exclusion Thresholds Results= $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Distance=5mm