

# FCC RF Exposure

EUT Description: Bluetooth Headphone

Model No.: Arc-1-ANC, Arc-1-ANC-A, Arc-1-ANC-B, Arc-1-ANC-C, Arc-1-ANC-D, Arc-1-ANC-E, Arc-1-ANC-F, Arc-1-ANC-G, Arc-1-ANC-H, Arc-1-ANC-I, Arc-1-ANC-J

FCC ID: 2AMC6-ARC1ANC

## 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

2.4G

|                                                                                                                              | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power dBm/mW | Min test separation distance mm | Result  | Limit | SAR Test Exclusion |
|------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|--------------------------|---------------------------------|---------|-------|--------------------|
| BT                                                                                                                           | 4.204              | 4±1                 | 5/3.1623                 | 5                               | 0.98019 | 3.0   | Pass               |
| Note:<br>PK Output power = conducted power.<br>Conducted power see the test report <b>HK2008262424-E</b> , antenna gain=0dBi |                    |                     |                          |                                 |         |       |                    |

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 0.98019 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(GHz) is the RF channel transmit frequency in GHz

Distance = 5mm