

# FCC RF Exposure

EUT Description: **TWS Wireless Earbuds**

Model No.: **M1**

FCC ID: **2AUMB-M1**

## 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 (mW/cm <sup>2</sup> ) | SAR Test Exclusion |
|-----|--------------------|---------------------|--------------------------|---------------------------------|--------|-----------------------------|--------------------|
| EDR | 3.36               | 3 $\pm$ 1           | 4/ 2.51                  | 5                               | 0.778  | 3.0                         | Pass               |
| BLE | -0.121             | 0 $\pm$ 1           | 1/ 1.26                  | 5                               | 0.391  | 3.0                         | Pass               |

Note:

PK Output power = conducted power.

Conducted power see the test report HK1909012279-1E/ HK1909012279-2E, 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 SAR test exclusion. The test exclusion threshold is 0.778 which is  $\leq 3$ , SAR 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