

# FCC RF Exposure

EUT Description: Bluetooth Speaker

Model No.: A7, A7 Arcane 1, A7 Arcane 2, A7 Arcane 3, A7 Arcane 4, A7 Arcane 5, A7 Arcane 6, A7 Arcane 7, A7 Arcane 8, A7 PRO, A7 Pro, A7 Plus, A7 Max

FCC ID: 2A43O-A7

## 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:  

$$\left[ \frac{\text{max power of channel, including tune - up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1 - g SAR and  $\leq 7.5$  for 10 - g extremity SAR,

Where:

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

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
2480	-3.54	-3 ± 1	-2/0.63	5	0.198	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2202240695-E**, 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 0.198 which is  $\leq 3$ , RF Exposure testing is not required.

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

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

Distance=5mm