

# FCC RF Exposure

EUT Description: Sound Machine & Night Light

Model No.: Lamp-007, Lamp-007-1, Lamp-007-2, Lamp-007-3, Lamp-007-4

FCC ID: 2AO85-LAMP007

## 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 |
|-----------------|--------------------|---------------------|--------------------------|---------------------------------|--------|-----------------------------|--------------------|
| 2402            | 1.39               | 1 ± 1               | 2/1.58                   | 5                               | 0.491  | 3.0                         | Pass               |

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2204141551-E**, antenna gain=-0.58dBi

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 0.491 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