

FCC RF Exposure

EUT Description: Lighthouse Sound Machine & Night Light

Model No.: MEDO000LIW1817O16-A

FCC ID: 2BRZQ-MEDO000LIW

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:

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

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 (mW)	Min test separation distance (mm)	Result	Limit (mW/cm ²)	SAR Test Exclusion
BT	2480	0.46	0±1(1)	1.259	5	0.397	3.0	Pass
2.4G WIFI	2412	8.35	8±1(9)	7.943	5	2.467	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report HK2508194668-1E/2E, antenna gain=1.68dBi

WIFI and Bluetooth cannot be transmitted at the same time.

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 2.467 which is ≤ 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