

# TEST REPORT

**Product Name** : LED Bluetooth Beanie  
**Brand Mark** : N/A  
**Model No.** : LD-001  
**Extension model** : LD-002, LD-003, LD-004, LD-005,  
LD-006  
**FCC ID** : 2A4RU-LD001  
**Report Number** : BLA-EMC-202202-A2303  
**Date of Sample Receipt** : 2022/2/23  
**Date of Test** : 2022/2/23 to 2022/3/3  
**Date of Issue** : 2022/3/3  
**Test Standard** : 47 CFR Part 1.1307, Part 2.1093, KDB  
447498  
**Test Result** : Pass

Prepared for:

**Shenzhen Ledong Fashion Garments Co., LTD**  
**407, Plant no.3, Yufeng Industrial Zone, Minzhi Street, Longhua District,**  
**Shenzhen**

Prepared by:

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Date:

2022/3/3



## REPORT REVISE RECORD

Version No.	Date	Description
00	2022/3/3	Original

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## 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

## 2 GENERAL INFORMATION

<b>Applicant</b>	Shenzhen Ledong Fashion Garments Co., LTD
<b>Address</b>	407,Plant no.3,Yufeng Industrial Zone,Minzhi Street, Longhua District, Shenzhen
<b>Manufacturer</b>	Shenzhen Ledong Fashion Garments Co., LTD
<b>Address</b>	407,Plant no.3,Yufeng Industrial Zone,Minzhi Street, Longhua District, Shenzhen
<b>Factory</b>	Shenzhen Ledong Fashion Garments Co., LTD
<b>Address</b>	407,Plant no.3,Yufeng Industrial Zone,Minzhi Street, Longhua District, Shenzhen
<b>Product Name</b>	LED Bluetooth Beanie
<b>Test Model No.</b>	LD-001

## 3 GENERAL DESCRIPTION OF E.U.T.

<b>Hardware Version</b>	N/A
<b>Software Version</b>	N/A
<b>Operation Frequency:</b>	2402MHz-2480MHz
<b>Modulation Type:</b>	GFSK, pi/4DQPSK, 8DPSK
<b>Channel Spacing:</b>	1MHz
<b>Number of Channels:</b>	79
<b>Antenna Type:</b>	PCB Antenna
<b>Antenna Gain:</b>	0.68dBi (Provided by the applicant)

#### 4 LABORATORY LOCATION

All tests were performed at:  
BlueAsia of Technical Services(Shenzhen) Co., Ltd.  
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,  
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Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673  
No tests were sub-contracted.

## 5 RF EXPOSURE COMPLIANCE REQUIREMENT

### 5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 5.2 LIMITS

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

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

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 5.3 EUT RF EXPOSURE

Operational Mode: 8-DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	1.033	±1	2.033	1.60	0.50	3.0
2441 MHz	-0.687	±1	0.313	1.07	0.34	
2480 MHz	-1.803	±1	-0.803	0.83	0.26	
Conclusion: the calculated value ≤3.0. SAR is exempted.						

**----END OF REPORT----**

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