TEST REPORT

Product Name	:	LED Bluetooth Beanie Hat
Brand Mark	:	N/A
Model No.	:	Z1
Extension Model	:	ZA; ZB; ZC; ZD; ZE; ZF
Report Number	:	BLA-EMC-202206-A8403
FCC ID	:	2A7MSZNLZ1
Date of Sample Receipt	:	2022/6/22
Date of Test	:	2022/6/22 to 2022/7/4
Date of Issue	:	2022/7/4
Test Standard	:	47 CFR Part 1.1307, Part 2.1093, KDB 447498
Test Result	:	Pass

Prepared for:

Shenzhenshi Zhonghuijia Technology Co., LTD
603, No.38, Zone 1, Yangtaishan Village, Tongsheng Community, Dalang Street, Longhua District, Shenzhen

Prepared by:

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Review by: Sweet
Date: 2022/7/4

BlueAsia of Technical Services(Shenzhen) Co., Ltd. BLA

REPORT REVISE RECORD

Version No.	Date	Description
00	2022/7/4	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

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2 GENERAL INFORMATION

Applicant	Shenzhenshi Zhonghuijia Technology Co., LTD
Address	603, No.38, Zone 1,Yangtaishan Village, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
Manufacturer	Shenzhenshi Zhonghuijia Technology Co., LTD
Address	603, No.38, Zone 1,Yangtaishan Village, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
Factory	Shenzhenshi Zhonghuijia Technology Co., LTD
Address	603, No.38, Zone 1,Yangtaishan Village, To Bluetooth hat ngsheng Community, Dalang Street, Longhua District, Shenzhen
Product Name	LED Bluetooth Beanie Hat
Test Model No.	Z1
Extension Model	ZA; ZB; ZC; ZD; ZE; ZF
Remark	All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	SST263_V07
Software Version	V003

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

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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, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

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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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation[17]

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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: BT(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	-2.368	±1	-1.368	0.73	0.23	3.0
2441 MHz	-2.334	±1	-1.334	0.74	0.23	
2480 MHz	-5.632	±1	-4.632	0.34	0.11	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

----END OF REPORT----

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