

Report No.: EED32L00364702



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RF Exposure Evaluation Report

Product: Mini bluetooth speaker

Trade mark : N/A

Model/Type reference : BS100, BS200

Serial Number : N/A

 Report Number
 : EED32L00364702

 FCC ID
 : 2AAPS-BS100BS200

Date of Issue : Dec. 25, 2019

Test Standards : 47 CFR Part 1.1307(2015)

47 CFR Part 1.1310(2015)

KDB447498D01v06

Test result : PASS

Prepared for:

Shenzhen UEMade Technology CO., Ltd 3F, 3rd Building, Long Fa Industry Park, 1-1 Da Wan Road, Da Kang Zone, Yuan Shan Street, Long Gang District, Shen Zhen, Guang Dong Province, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Ware Xin

Kevin Yang

Date:

Dec. 25, 2019

Check No.: 2447622129









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2 Version

Version No.	Date	Description			
00	Dec. 25, 2019		Original		
)	(5)	(6)		(0,)	













































































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4 General Information

4.1 Client Information

Applicant:	Shenzhen UEMade Technology CO., Ltd
Address of Applicant:	3F, 3rd Building, Long Fa Industry Park, 1-1 Da Wan Road, Da Kang Zone, Yuan Shan Street, Long Gang District, Shen Zhen, Guang Dong Province, China
Manufacturer:	Shenzhen UEMade Technology CO., Ltd
Address of Manufacturer:	3F, 3rd Building, Long Fa Industry Park, 1-1 Da Wan Road, Da Kang Zone, Yuan Shan Street, Long Gang District, Shen Zhen, Guang Dong Province, China
Factory:	Shenzhen UEMade Technology CO., Ltd
Address of Factory:	3F,3rd Building, Long Fa Industry Park, 1-1 Da Wan Road, Da Kang Zone, Yuan Shan Street, Long Gang District, Shen Zhen, Guang Dong Province, China

4.2 General Description of EUT

Product Name:	Mini bluetooth speaker		
Model No.(EUT):	BS100, BS200		
Test Model No.:	BS100		
Trade Mark:	N/A		
EUT Supports Radios application	BT 5.0 Single mode, 2402MHz to	2480MHz	· ·



















































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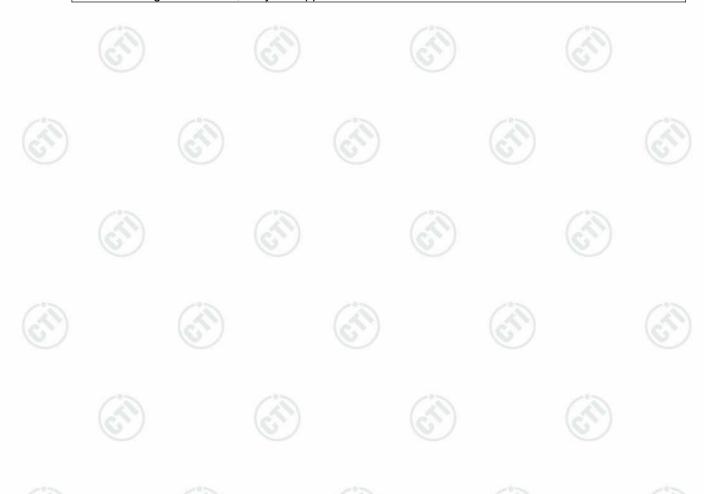
4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz						
Modulation Type:	GFSK, π/4DQPSK, 8DPSK						
Number of Channels:	79	79					
Test Power Grade:	DH5: 7, 2DH5:	DH5: 7, 2DH5: 6, 3DH5: 6					
Test Software of EUT:	BT_Tool V1.0.5	BT_Tool V1.0.5					
Antenna Type:	PCB Antenna	PCB Antenna					
Antenna Specification	Bluetooth : A	Antenna Gain :	0.00 dBi	(Numeric gain:	1.00)		
Maximum tune up power	Bluetooth:		4.	50 dBm	(2.818 mW)		
Power Supply:	Battery	Li-ion Batter	y: DC 5V		(C)		
Sample Received Date:	Dec. 02, 2019						
Sample tested Date:	Dec. 02, 2019 to Dec. 19, 2019						
				200			

The tested sample(s) and the sample information are provided by the client.

Model No.:BS100, BS200

Only the model BS100 was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the appearance and color are difference.



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4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164



4.5 Deviation from Standards

None.



None.



















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RF Exposure Evaluation

RF Exposure Compliance Requirement

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \& S = \frac{E^2}{377}$$

E = Field strength in Volts / meter

P = Power in Watts

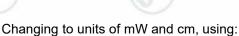
G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$



$$P(mW) = P(W) / 1000$$
 and

$$d(cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$

Equation 1

Where

d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²























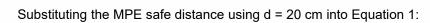




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5.2 Maximum Permissible Exposure



$$S = 0.000199 \times P \times G$$

Where P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

Bluetooth:

2.000000								
	Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	
	39	2441	2 818	1	20	0.0006	1	





























































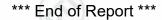




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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00364701for EUT external and internal photos.



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