Report No.:	TW2503154-01E
Applicant:	Electronic World LLC
Product:	Wireless speaker
Model No.:	Electro Thunder Bass, GS-113
Trademark:	Electro
Test Standards:	FCC Part 15.249
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility
Approved By	

Terry long

Terry Tang

Manager

Dated:

April 01, 2025

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

- 1.1 Test Lab Details Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
 - Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
 - Telephone:(755) 83448688Fax:(755) 83442996
 - Site on File with the Federal Communications C
 - Site on File with the Federal Communications Commission United Sates
 - Registration Number: 744189
 - For 3m Anechoic Chamber

1.2 Applicant Details

Applicant:Electronic World LLCAddress:575 Julie Rivers Drive, Sugar Land, TX, United States, 77478

1.3 Description of EUT

Product:	Wireless speaker
Manufacturer:	Glory Star Technology Industrial Co., Ltd.
Address:	Room2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,
	Shenzhen, China
Trademark:	Electro
Model Number:	Electro Thunder Bass
Additional Model Name	GS-113
Rating:	Input: DC5V, 2A
Battery:	DC11.1V, 5200mA Li-ion battery
Serial No.:	GS113202503
Hardware Version:	V2.0
Software Version:	V2.0
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK, 川/4DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1MHz
Antenna Designation	PCB antenna with gain -0.58dBi maximum (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

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2025-03-18 to 2025-04-01

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy -Xing

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version	
EZ-EMC	Ver.EMC-CON 3A1.1	

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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adopt any other remedies which may be appropriate.



The EUT has been tested according to the following specifications:

3.0 Technical Details

3.1 Summary of test results

The DOT has been dested according to the following specifications.				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies	
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies	
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies	

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

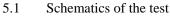
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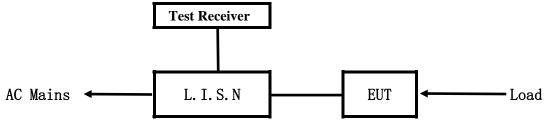
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5.0 Power Line Conducted Emission Test



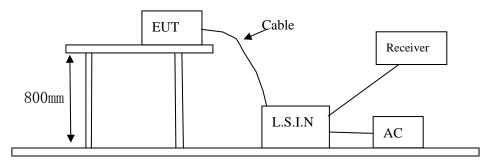


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A.	EUT
11.	LUI

Device	Manufacturer	Model	FCC ID
Wireless speaker	Glory Star Technology	Electro Thunder Bass, 2BB37-ELLCTB	
whereas speaker	Industrial Co., Ltd.	GS-113	2BB57-ELECTB100X

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating		
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A;		
			Output: DC5V, 3A; DC9V, 3A; DC12V,		
			3A; DC15V, 3A; DC20V, 2.25A;		

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

Frequency	Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	56.0	46.0	
$5.00~\sim~30.00$	60.0	50.0	

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

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A: Conducted Emission on Live Terminal (150kHz to 30MHz) **EUT Operating Environment** Humidity: 65%RH Atmospheric Pressure: 101 kPa Temperature: 25℃ EUT set Condition: Charging and Communication by BT **Results: Pass** Please refer to following diagram for individual dBu∀ 80 70 FCC Part15 CE-Class B QP 60 Parti 5 CE-Class B FCC AVe 50 40 30 pea 20 AVC 10 0 -10 -20 0.150 0.30 0.50 (MHz) 4.0 6.0 30.000 0.80 9.0 Factor Frequency Reading Level Limit Margin Detector P/F No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 0.3605 28.40 -30.32 Ρ 1 18.04 10.36 58.72 QP 2 0.3605 16.07 10.36 26.43 48.72 -22.29 AVG Ρ 3 0.8325 13.81 10.48 24.29 56.00 -31.71 QP Ρ 4 0.8325 17.27 Ρ 6.79 10.48 46.00 -28.73 AVG 5 6.8493 10.66 12.80 23.46 60.00 QP Ρ -36.54 6 -39.05 Ρ 6.8493 -1.85 12.80 10.95 50.00 AVG 7 25.2261 12.64 15.30 27.94 60.00 -32.06 QP Ρ 8 25.2261 11.21 15.30 26.51 50.00 -23.49 AVG Ρ

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B:



Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Charging and Communication by BT **Results: Pass** Please refer to following diagram for individual dBu∀ 80 70 FCC Part15 CE-Class B QP 60 -Class B R. ¢Е **AVe** Fſ Parti 50 40 30 pea 20 AV(10 0 -10 -20 0.150 0.30 0.50 (MHz) 6.0 30.000 0.80 4.0 9.0 Frequency Reading Factor Level Limit Margin Detector P/F No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB)0.3605 18.92 10.36 29.28 58.72 -29.44 QP Ρ 1 2 Ρ 0.3605 14.57 10.36 24.93 48.72 -23.79 AVG 3 0.8325 14.42 10.48 24.90 56.00 -31.10 QP Ρ 17.71 -28.29 4 0.8325 7.23 10.48 46.00 Ρ AVG 5 4.7705 20.26 12.24 32.50 56.00 -23.50 QP Ρ 6 4.7705 12.24 Ρ -2.769.48 46.00 -36.52 AVG 7 Ρ 25.2261 12.52 15.30 27.82 60.00 -32.18 QP 8 25.2261 11.30 15.30 50.00 -23.40 AVG Ρ 26.60

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6 Radiated Emission Test

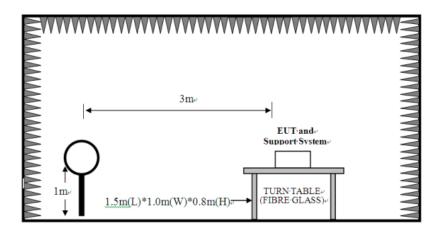
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
Above IGHZ	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

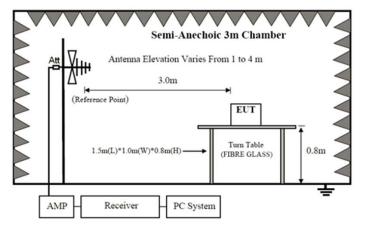


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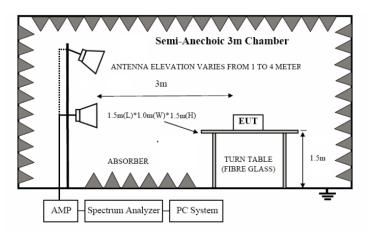
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Α	FCC Part 15 Subpart C Paragraph 15.249(a) L	imit
---	---	------

Fundamental Frequency	Field Strength of Fundamental (3m)Field Strength ofmV/mdBuV/muV/m	trength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m

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2	400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
Note:	1. RF Field Streng	gth (dBuV)	$= 20 \log \text{RF Volt}$	age (uV)			

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

1	1	81
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = $20 \log \text{RF}$ Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

6. Battery was fully charged during test

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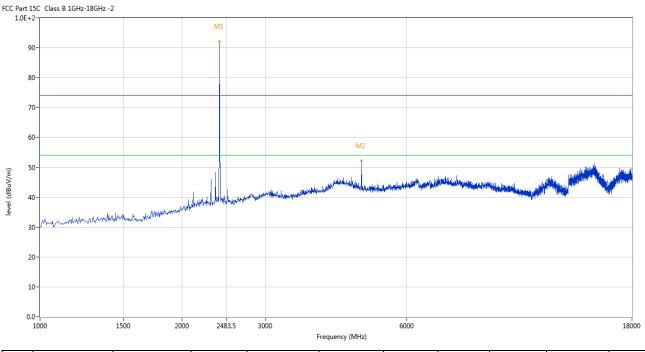
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal

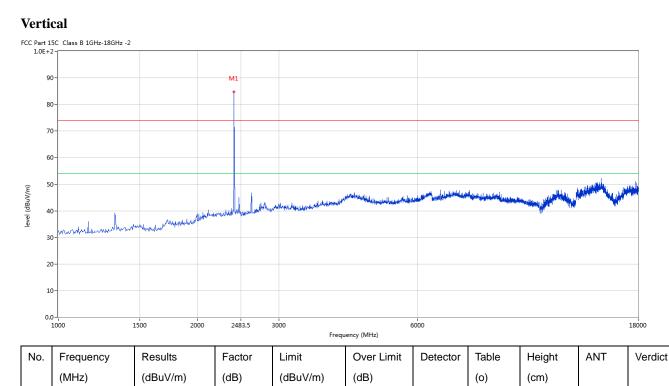


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	92.05	-3.57	114.0	-21.95	Peak	291.00	100	Horizontal	Pass
2	4802.799	52.25	3.12	74.0	-21.75	Peak	252.00	100	Horizontal	Pass

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180.00

100

Vertical

Pass

Peak

The report refers only to the sample tested and does not apply to the bulk.

84.82

-3.57

114.0

-29.18

2402

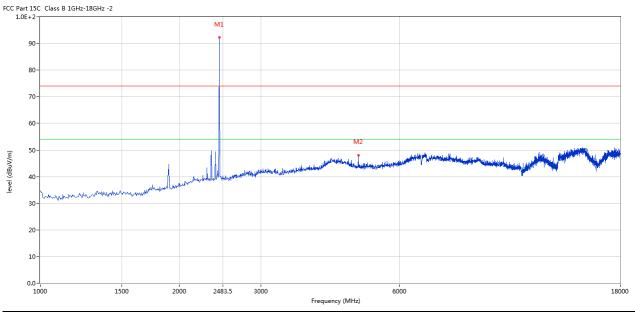
1

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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

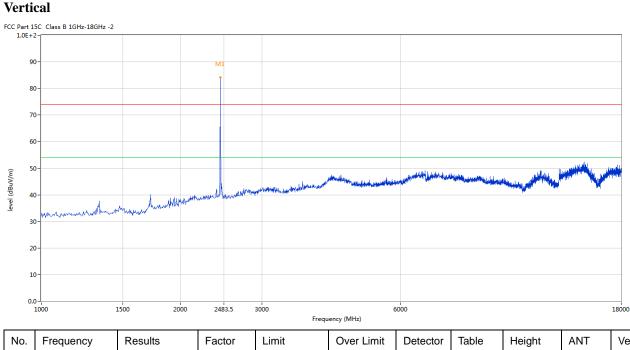


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	92.22	-3.57	114.0	-21.78	Peak	245.00	100	Horizontal	Pass
2	4879.280	48.04	3.20	74.0	-25.96	Peak	255.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	84.13	-3.57	114.0	-29.87	Peak	196.00	100	Vertical	Pass

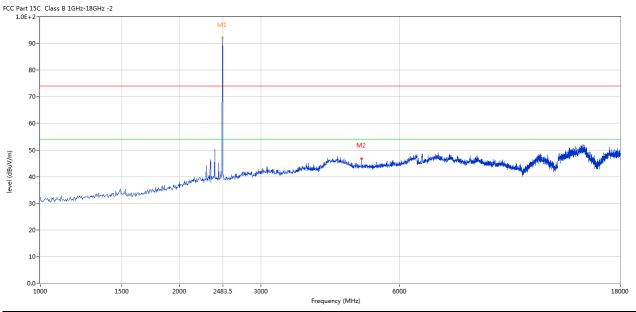
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

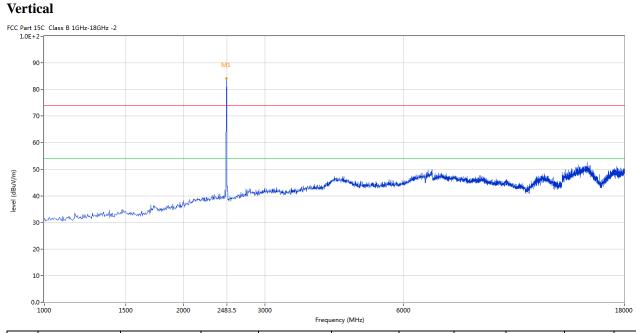


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	92.12	-3.57	114.0	-21.88	Peak	102.00	100	Horizontal	Pass
2	4960.010	46.67	3.36	74.0	-27.33	Peak	239.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	84.14	-3.57	114.0	-29.86	Peak	349.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(2) Margin=Emission-Limits

(3) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(4) For test purpose, keep EUT continuous transmitting

(5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

(6) the measured PK value less than the AV limit.

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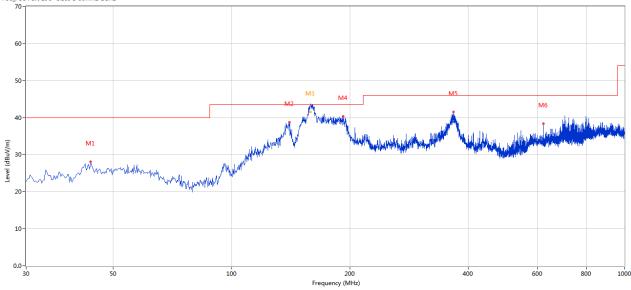
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	43.819	28.06	-6.08	40.0	11.94	Peak	272.00	100	Horizontal	Pass
2	140.310	38.75	-9.91	43.5	4.75	Peak	291.00	100	Horizontal	Pass
3*	158.735	41.56	-9.58	43.5	1.94	QP	267.00	100	Horizontal	Pass
4	192.192	40.32	-7.35	43.5	3.18	Peak	277.00	100	Horizontal	Pass
5	367.476	41.51	-1.73	46.0	4.49	Peak	217.00	100	Horizontal	Pass
6	621.552	38.31	1.45	46.0	7.69	Peak	267.00	100	Horizontal	Pass

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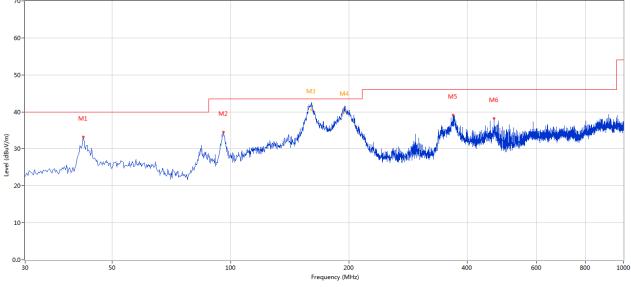
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	42.122	33.23	-5.39	40.0	6.77	Peak	353.00	100	Vertical	Pass
2	95.944	34.57	-7.35	43.5	8.93	Peak	129.00	100	Vertical	Pass
3*	160.675	40.58	-9.56	43.5	2.92	QP	142.00	100	Vertical	Pass
4*	194.859	39.99	-7.15	43.5	3.51	QP	342.00	100	Vertical	Pass
5	367.961	39.12	-1.71	46.0	6.88	Peak	346.00	100	Vertical	Pass
6	468.330	38.25	-0.14	46.0	7.75	Peak	256.00	100	Vertical	Pass

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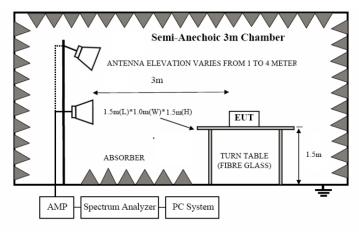


7. Band Edge

7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

	Product:		Wireless	speaker		Polar	ity		Horizontal	
	Mode	ŀ	Keeping Tr	ansmitting		Test Voltage D			DC11.1V	
Te	mperature		24 de	g. C,		Humic	lity		56% RH	
Te	est Result:		Pas	SS						
Part 1 1.0E+	15C Class B 1GHz-18GHz	-2			·					_
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4 3 2 1	10	hten un sich die seine seiner sie	ender in Alter in an in Alternation	in the second		M	Jahangan Kuluka Ma			2410
4 3 2 1 0.	0	Boculto	Easter		equency (MHz)		Table	Hoight		r
4 3 2 1	0	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	r
4 3 2 1 0. NO.	0 0 0 2 2350 Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	(o)	(cm)	ANT	Verdic
4 3 2 1 0. No.	0 0 0 0 0 0 0 0 0 0 0 0 0 0	(dBuV/m) 91.73	(dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 17.73	Detector Peak	(o) 265.00	(cm) 100	ANT Horizontal	Verdic N/A
4 3 1 0. No.	 Frequency (MHz) 2401.857 2400.027 	(dBuV/m) 91.73 68.14	(dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 17.73 -5.86	Detector Peak Peak	(o) 265.00 265.00	(cm) 100 100	ANT Horizontal Horizontal	Verdic N/A Pass
4 3 2 1 0. No.	0 0 0 0 0 0 0 0 0 0 0 0 0 0	(dBuV/m) 91.73	(dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 17.73	Detector Peak	(o) 265.00	(cm) 100	ANT Horizontal	Verdic N/A

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_	Product:		Wireless	speaker		Detect	or		Vertical	
	Mode	K	Leeping Tra	ansmitting		Test Vol	tage	Ι	DC11.1V	
Te	mperature		24 deg	g. C,		Humidity		56% RH		
Te	est Result:		Pas	3			_			
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1.06+	-2-									
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4 3 2 1 0. No.	10	Results (dBuV/m)	Factor (dB)	Fre Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2410 Verdic
4 3 2 1 0. No.	10	Results (dBuV/m) 84.73	Factor (dB) -3.57	Free Limit (dBuV/m) 74.0	Over Limit (dB) 10.73	Detector	Table (o) 182.00	Height (cm) 100	ANT Vertical	2410 Verdic

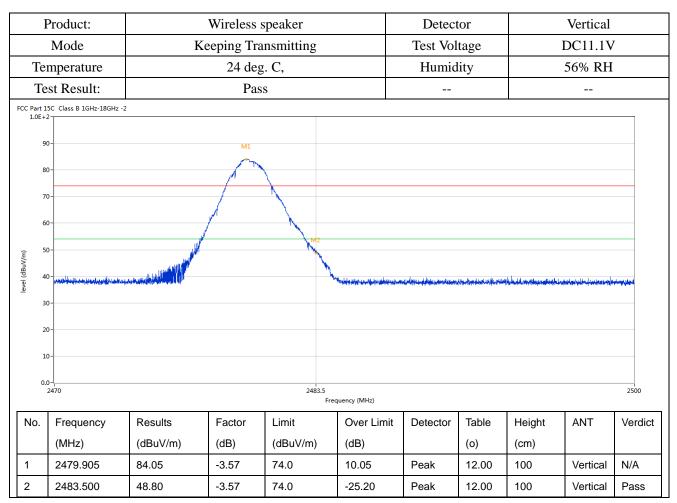
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	Product:		Wirele	ss speaker		P	olarity		Horizont	al
	Mode		Keeping '	Transmitting		Tes	t Voltage		DC11.1	V
Te	emperature		24 0	leg. C,		Hu	umidity		56% RI	ł
Te	est Result:		Ι	Pass						
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-	70-									
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Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain -0.58dBi maximum. It fulfills the requirement of this section. Test Result: Pass

The report refers only to the sample tested and does not apply to the bulk.

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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

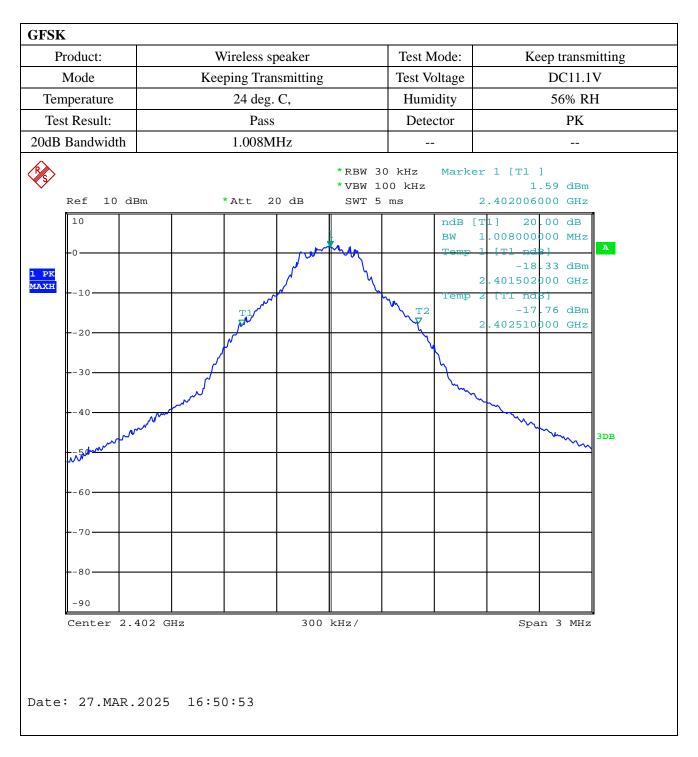
N/A

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Test Result



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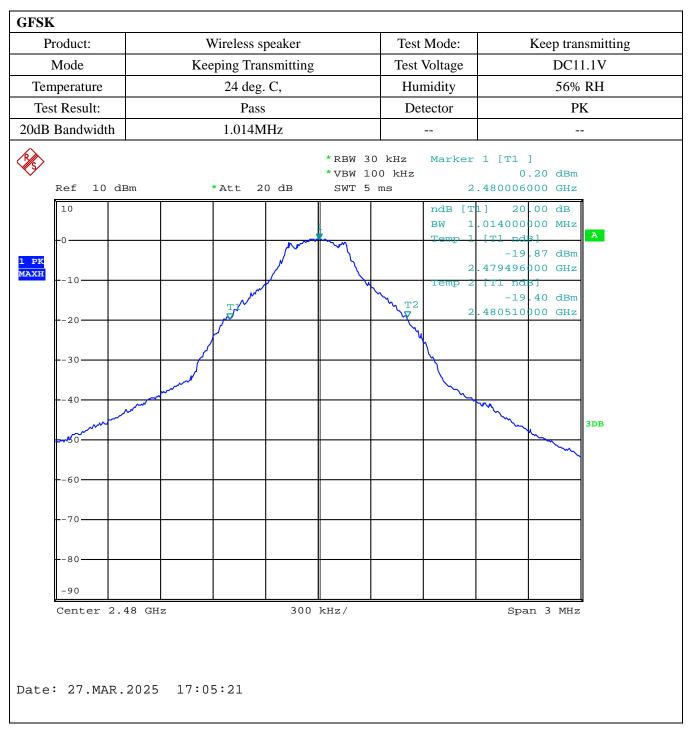




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Mode	-	Test	t Mode:	Keep transr	nitting	
	Keeping Transmitting	Test	Voltage	DC11.1	-	
Temperature	24 deg. C,		midity	56% RH		
Test Result:	Pass		etector	РК		
0dB Bandwidth	1.320MHz					
Ref 10 dB 10 0 -10 -20 -30 -30 -50 -60 -70 -80 -90		* RBW 30 kHz * VBW 100 kH: SWT 5 ms		1.320000000 MHz <u>1 [T1 nd8]</u> -18.76 dBm 2.401340000 GHz	A	
Center 2.4	402 GHz 300	kHz/	Span 3 MHz			

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adopt any other remedies which may be appropriate.



Product:	Wireless speaker	Test Mode:	Keep transmitting	
Mode	Keeping Transmitting	Test Voltage	DC11.1V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	РК	
0dB Bandwidth	1.320MHz			
Ref 10 dBm I0 0 -10	*Att 20 dB	RBW 30 kHz Marker VBW 100 kHz SWT 5 ms 2. ndB [T] BW 1. Temp 1 2. Temp 2 T2 2. Temp 2 T2 2.	1 [T1] -1.47 dBm .441006000 GHz	

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Product:	Wireless speaker	Test Mode:	Keep transmitting	
Mode	Keeping Transmitting	Test Voltage	DC11.1V	
Temperature	24 deg. C,	Humidity	56% RH PK	
Test Result:	Pass	Detector		
0dB Bandwidth	1.326MHz			
Ref 10 dBm In In In<	*Att 20 dB	RBW 30 kHz Marker VBW 100 kHz SWT 5 ms 2 ndB [T BW 1 Temp 1 Temp 2 T2 2 T2 2 Temp 2 T2 2	1 [T1] -0.71 dBm .480000000 GHz 1] 20 00 dB .326000000 MHz [T1 nd3] -20.58 dBm .479334000 GHz	

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Product:	Winalaga analyan			
	Wireless speaker	Test Mode:	Keep transmitting	
Mode	Keeping Transmitting	Test Voltage	DC11.1V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	РК	
20dB Bandwidth	1.302MHz			
Ref 10 dB I0 0 -10 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -50 -60 -70 -80 -90 Center 2.4	m *Att 20 dB	* RBW 30 kHz Mark * VBW 100 kHz SWT 5 ms ndB BW Temp T2 T2 T2 T2 T2 T2 T2 T2 T2 T2 T2 T2 T2	er 1 [T1] 0.97 dBm 2.402006000 GHz [T1] 20.00 dB 1.302000000 MHz 1 [T1 nds] -18.98 dBm 2.401352000 GHz	

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Mode Keeping Transmitting Test Voltage DC11.1V Yemperature 24 deg. C, Humidity 56% RH Test Result: Pass Detector PK IB Bandwidth 1.326MHz * RBW 30 kHz Marker 1 [T1] *VBW 100 kHz -1.45 dBm Ref 10 dBm *Att 20 dB SWT 5 ms 2.441000000 GHz 10 Image:					
emperature 24 deg. C, Humidity 56% RH Fest Result: Pass Detector PK IB Bandwidth 1.326MHz * RBW 30 kHz Marker 1 [T1] * * Ref 10 dBm * Att 20 dB SWT 5 ms 2.441000000 GHz 10 Image: Comparison of the second of the sec				Keep transmitting	
Pass Detector PK IB Bandwidth 1.326MHz * RBW 30 kHz Marker 1 [T1] * VBW 100 kHz -1.45 dBm Ref 10 dBm * Att 20 dB SWT 5 ms 2.441000000 GHz 10 mdB [T1] 20 00 dB BW 1] 326000 00 MHz -21 15 dBm -10 mdB [T1] 20 00 dB BW 1] 326000 00 MHz -21 15 dBm -10 mdB [T1] ndb] -22 29 dBm -22 29 dBm -20 T -22 441660 00 GHz -22 441660 00 GHz -30 T T -22 441660 00 GHz -30 44160 00 GHz -50 T T -30 44160 00 GHz -30 44160 GHz -30 44160 GHz -30 44160 GHz					
IB Bandwidth 1.326MHz * RBW 30 kHz Marker 1 [T1] * * VBW 100 kHz -1.45 dBm Ref 10 dBm * Att 20 dB SWT 5 ms 2.441000000 GHz 10 mdB [T1] 20 00 dB BW 1.326000 00 MHz -21 15 dBm -10 Temp 1 [T1 rdb] -21 15 dBm 2.4403400 GHz -10 Temp 2 [T1 rdb] -22 29 dBm -20 TA -22 29 dBm -30 TA -441660 00 GHz -400 -441660 00 GHz -50 -50 -50	Temperature	24 deg. C,		56% RH	
*RBW 30 kHz Marker 1 [T1] *VBW 100 kHz -1.45 dBm ref 10 dBm *Att 20 dB SWT 5 ms 2.441000000 GHz 10 0 10 0 10 0 10 10 10 10 1	Test Result:	Pass	Detector	РК	
* VEW 100 kHz -1.45 dBm Ref 10 dBm * Att 20 dB SWT 5 ms 2.441000000 GHz 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20dB Bandwidth	1.326MHz			
	Ref 10 dE	3m * Att 20 dB	RBW 30 kHz Marker VBW 100 kHz SWT 5 ms 2. ndB [T1 BW 1. Temp 1	1 [T1] -1.45 dBm 441000000 GHz] 20 00 dB 326000 00 MHz [T1 nds] -21 15 dBm 440334 00 GHz [T1 nds] -22 29 dBm 441660 000 GHz	
-80	-90				
	-90	441 GHz 300 1		Span 3 MHz	

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adopt any other remedies which may be appropriate.



Product:	Wireless speaker	Tes	st Mode:	Keep transmit	tting
Mode	Keeping Transmitting	Tes	t Voltage	DC11.1V	
Temperature	24 deg. C,		umidity	56% RH	
Test Result:	Pass		etector	РК	
DdB Bandwidth	1.326MHz				
Ref 10 dBm Ref 10 dBm 10 0 -10 -20 -30 -40 -50 -60 -60 -60 -70 -80 -90 Center 2.48 GH	*Att 20 dB	* RBW 30 kHz * VBW 100 kHz SWT 5 ms	Marker 2. ndB [T] BW 1. Temp 1 2. Temp 2	1 [T1] -0.72 dBm 48000000 GHz	

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10.0 FCC ID Label

FCC ID: 2BB37-ELLCTB100X

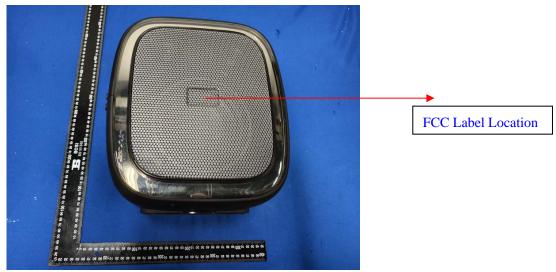
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View



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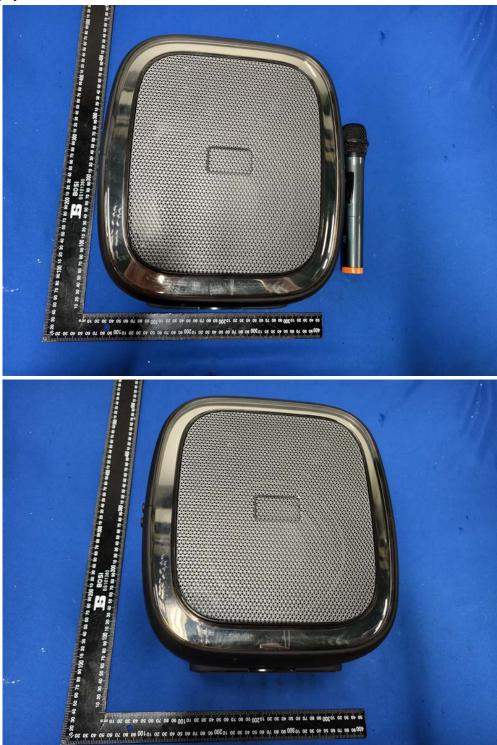


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11.2 Photographs - EUT Outside View

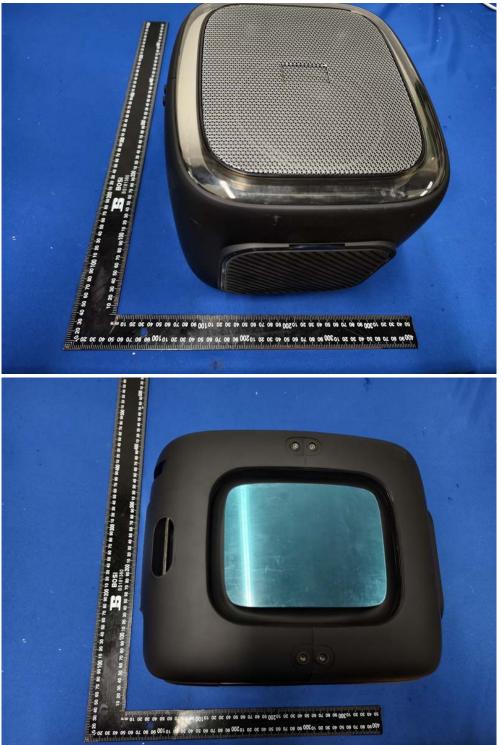


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Outside View



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Outside View



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Outside View



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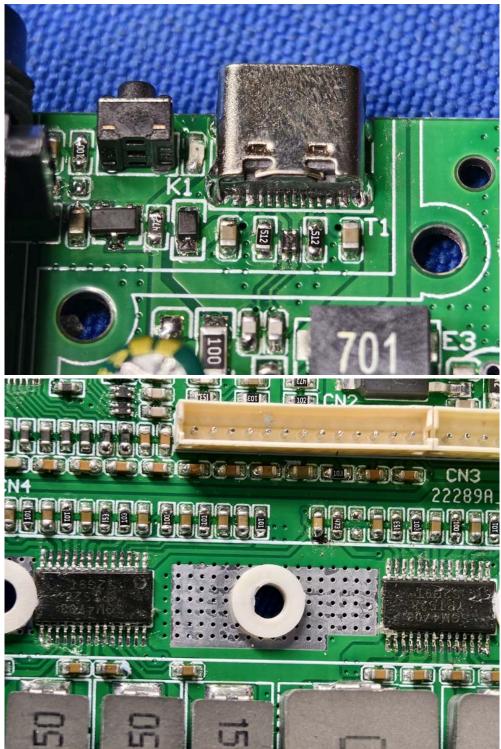
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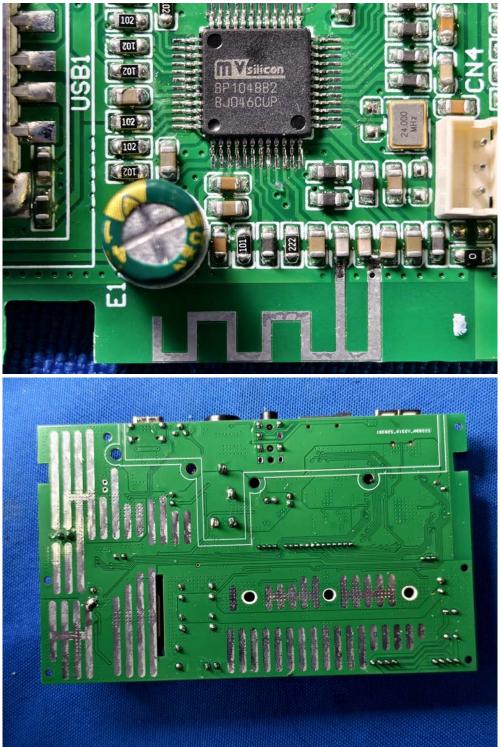
Inside View



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Inside View

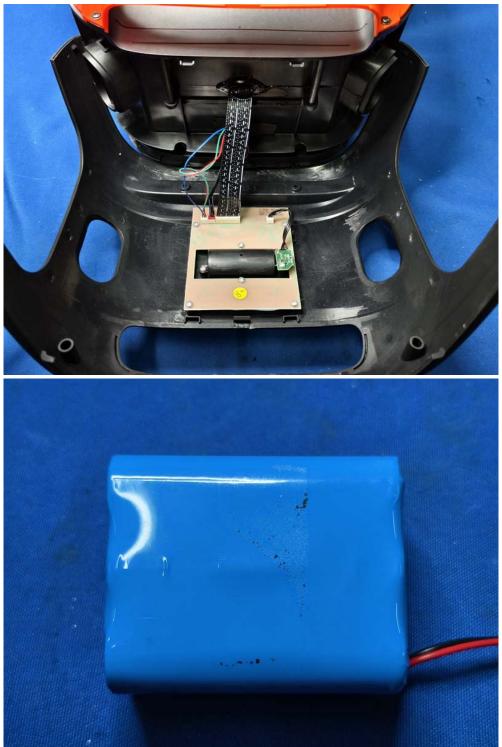


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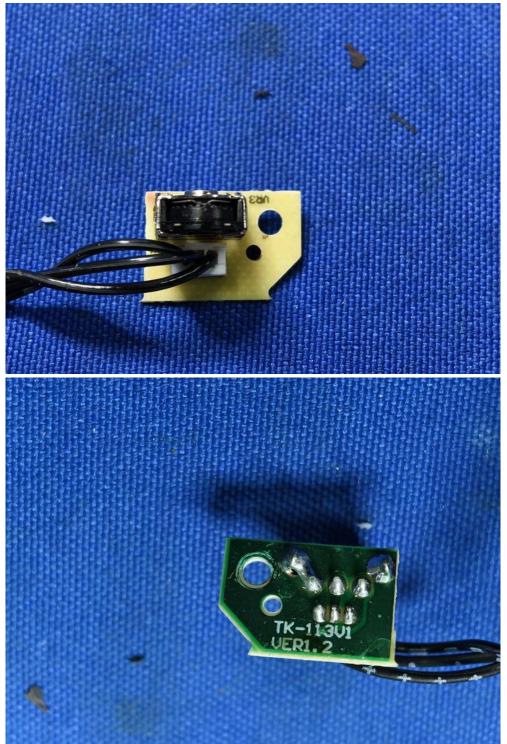
Inside View



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Inside View



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Inside View



--End of the report--

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