

Applicant: Shenzhen IDH Industrial Co., Ltd.

Product: Wireless Speaker

Model No.: YM-300, KA-8592

Trademark: N/A

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 Tang

\_\_\_\_\_\_

Manager

Dated: March 25, 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

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## **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

Date: 2025-03-25



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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) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: Shenzhen IDH Industrial Co., Ltd.

Address: 4 / F, No.1, Xinfang street, Guanlan No.6 Industrial Zone, Longhua New District, Shenzhen

#### 1.3 Description of EUT

Product: Wireless Speaker

Manufacturer: Shenzhen IDH Industrial Co., Ltd.

Address: 4 / F, No.1, Xinfang street, Guanlan No.6 Industrial Zone, Longhua New District,

Shenzhen

Trademark: N/A

Model Number: YM-300, KA-8592 Rating: Input: DC5V/2A

Battery: DC7.4V, 4400mAh Li-ion battery

Serial No.: YM30020250215001B

Hardware Version: YDF\_YM300-ACM8635\_AC6951C(SDK3.1.0)\_YM-300\_8FAC-E90A90F6\_2024

12171828

Software Version: YM-300-AMP-V1.3
Operation Frequency: 2402-2480MHz
Modulation Type: GFSK, JI/4DQPSK

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: 4 Samples

#### 1.5 Test Duration

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## 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

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	1	2024-07-12	2025-07-11		
RF Cable	Zhengdi	7m	1	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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#### 3.0 Technical Details

## 3.1 Summary of test results

The EUT has been	n tested accor	ding to the foll	owing 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

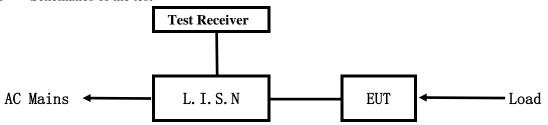
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

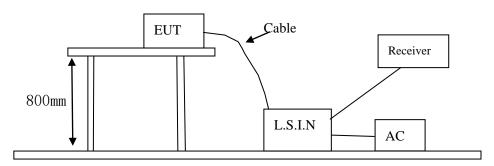


**EUT: Equipment Under Test** 

#### 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 50ohm/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

Device	Manufacturer	Model	FCC ID
Wireless Speaker	Shenzhen IDH Industrial Co., Ltd.	YM-300, KA-8592	2BN8X-YM-300

#### 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
- 5.5 Power line conducted Emission Limit according to Paragraph 15.207

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

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)

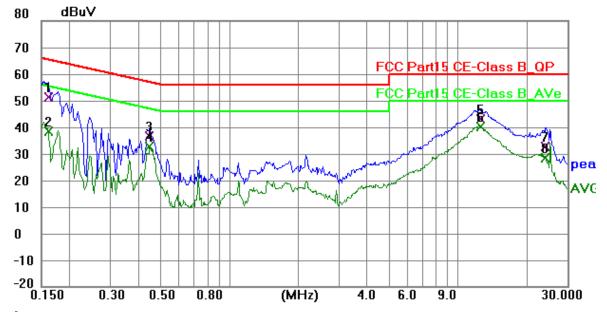
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	40.87	10.34	51.21	65.38	-14.17	QP	Р
2	0.1617	28.23	10.34	38.57	55.38	-16.81	AVG	Р
3	0.4464	26.32	10.39	36.71	56.94	-20.23	QP	Р
4	0.4464	22.40	10.39	32.79	46.94	-14.15	AVG	Р
5	12.5004	28.41	14.48	42.89	60.00	-17.11	QP	Р
6	12.5004	25.75	14.48	40.23	50.00	-9.77	AVG	Р
7	24.0171	17.06	15.56	32.62	60.00	-27.38	QP	Р
8	24.0171	12.85	15.56	28.41	50.00	-21.59	AVG	Р

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## B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

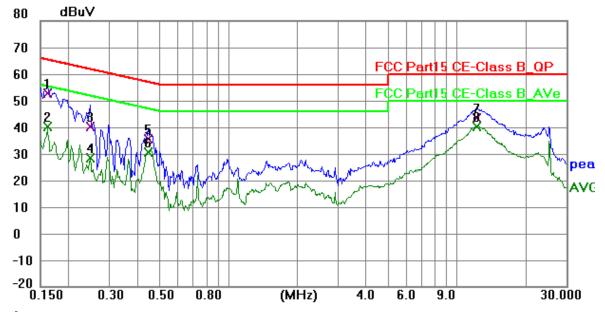
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	42.30	10.34	52.64	65.38	-12.74	QP	Р
2	0.1617	29.91	10.34	40.25	55.38	-15.13	AVG	Р
3	0.2475	29.82	10.33	40.15	61.84	-21.69	QP	Р
4	0.2475	18.15	10.33	28.48	51.84	-23.36	AVG	Р
5	0.4425	24.98	10.38	35.36	57.01	-21.65	QP	Р
6	0.4425	19.99	10.38	30.37	47.01	-16.64	AVG	Р
7	12.1884	29.04	14.39	43.43	60.00	-16.57	QP	Р
8	12.1884	25.67	14.39	40.06	50.00	-9.94	AVG	Р

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#### **6** Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) 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:

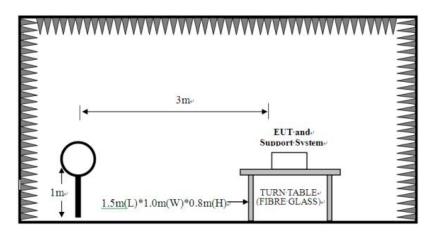
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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**

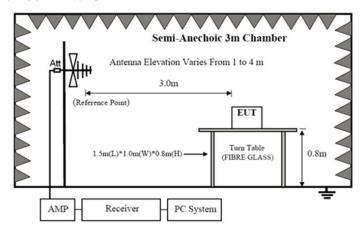
For radiated emissions from 9kHz to 30MHz



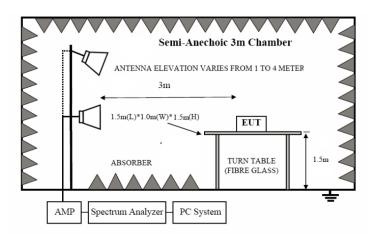
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For radiated emissions from 30MHz to1GHz



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:

## A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundamental (3m)	Field Strength of Harmonics (3m)		
(MHz) mV/m		dBuV/m	uV/m	dBuV/m	

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2400-2483.5 50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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Note:

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

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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 two modulation modes of GFSK, Pi/4D-QPSK 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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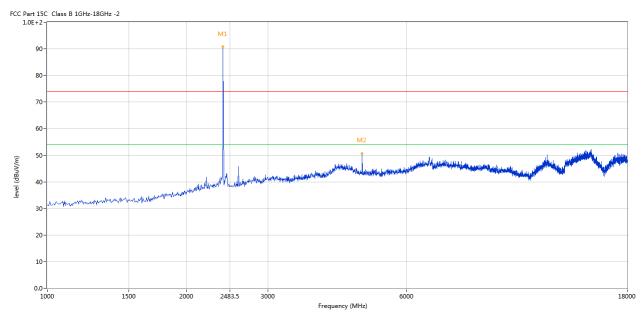


#### 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

#### **Horizontal**



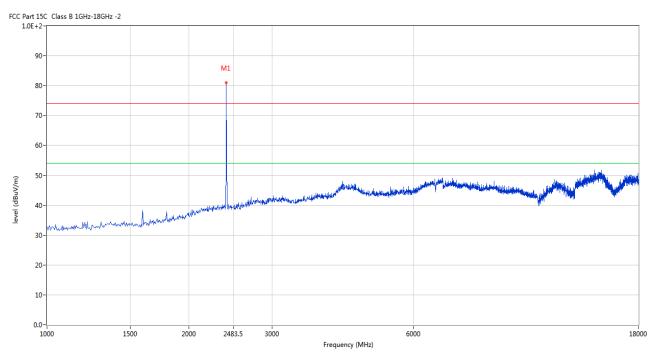
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	90.80	-3.57	114.0	-23.20	Peak	274.00	100	Horizontal	Pass
2	4802.799	50.69	3.12	74.0	-23.31	Peak	270.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	80.91	-3.57	114.0	-33.09	Peak	274.00	100	Vertical	Pass

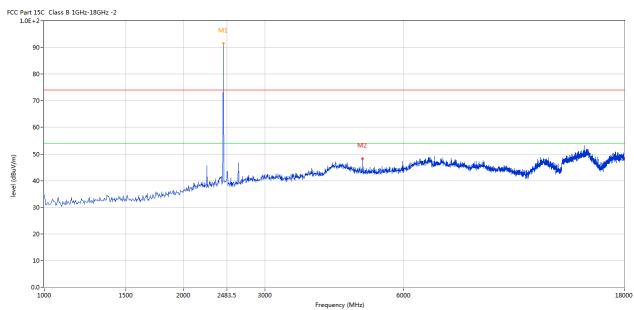
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



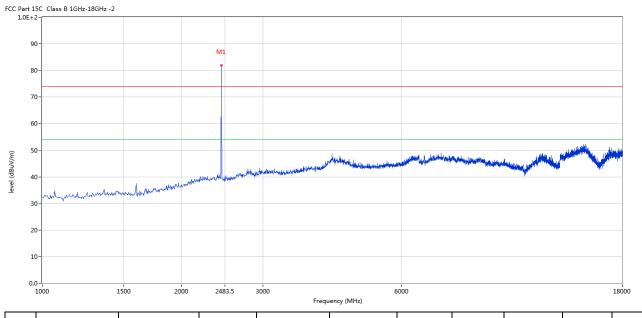
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.54	-3.57	114.0	-22.46	Peak	283.00	100	Horizontal	Pass
2	4883.529	48.22	3.20	74.0	-25.78	Peak	297.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	81.91	-3.57	114.0	-32.09	Peak	254.00	100	Vertical	Pass

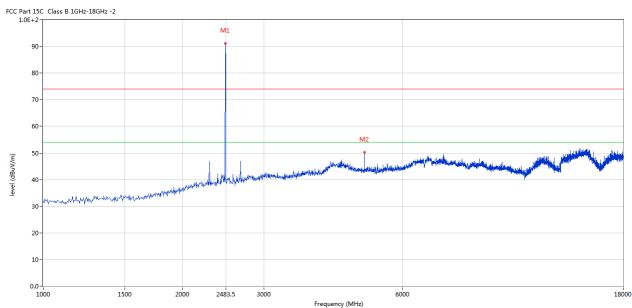
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Please refer to the following test plots for details: High Channel-2480MHz

#### **Horizontal**



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	91.09	-3.57	114.0	-22.91	Peak	287.00	100	Horizontal	Pass
2	4960.010	50.21	3.36	74.0	-23.79	Peak	276.00	100	Horizontal	Pass

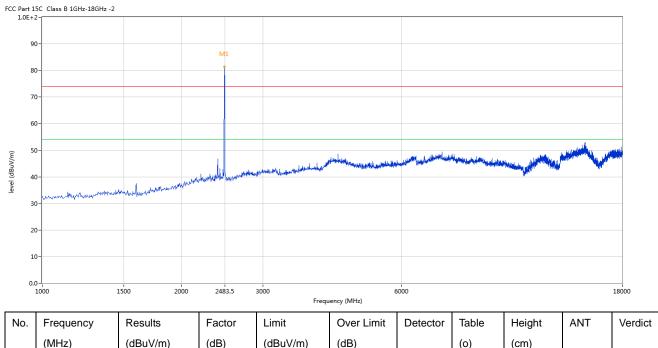
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#### Vertical



(MHz) (dBuV/m) (dB) (dBuV/m) (dB) (o) (cm) 251.00 2480 81.27 -3.57 114.0 -32.73 Peak 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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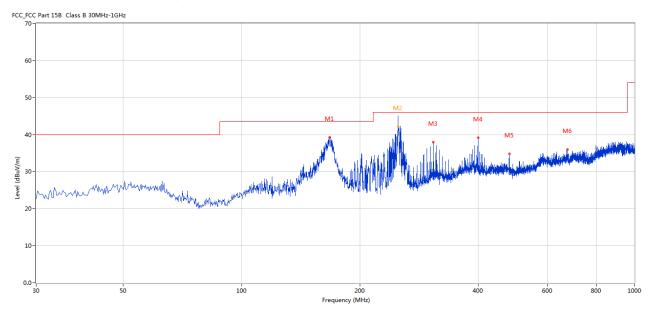


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	167.463	39.32	-9.32	43.5	4.18	Peak	0.00	100	Horizontal	Pass
2*	250.135	42.18	-5.03	46.0	3.82	QP	102.00	100	Horizontal	Pass
3	307.836	37.96	-3.87	46.0	8.04	Peak	113.00	100	Horizontal	Pass
4	399.963	39.15	-1.69	46.0	6.85	Peak	270.00	100	Horizontal	Pass
5	479.968	34.85	-0.95	46.0	11.15	Peak	178.00	100	Horizontal	Pass
6	675.859	35.95	1.80	46.0	10.05	Peak	268.00	100	Horizontal	Pass

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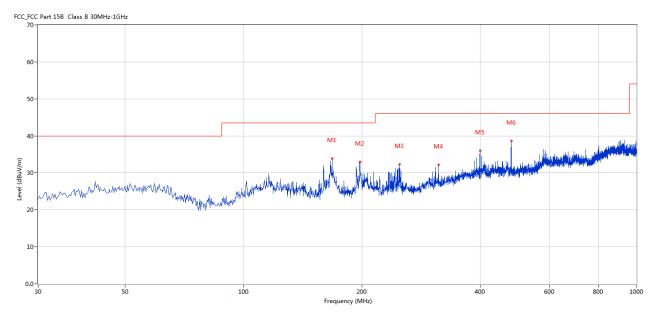


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	167.948	33.94	-9.30	43.5	9.56	Peak	37.00	100	Vertical	Pass
2	197.768	32.98	-7.15	43.5	10.52	Peak	360.00	100	Vertical	Pass
3	249.408	32.26	-5.14	46.0	13.74	Peak	38.00	100	Vertical	Pass
4	313.412	32.11	-3.84	46.0	13.89	Peak	175.00	100	Vertical	Pass
5	399.963	35.95	-1.69	46.0	10.05	Peak	359.00	100	Vertical	Pass
6	479.968	38.58	-0.95	46.0	7.42	Peak	255.00	100	Vertical	Pass

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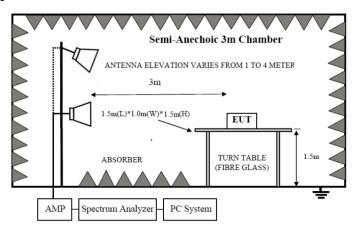


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- (1) 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.

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

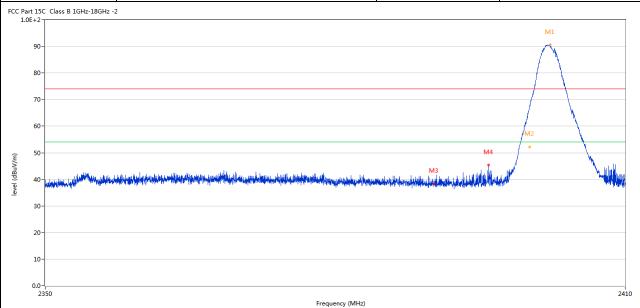
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#### 7.6 Test Result

Product:	Wireless Speaker	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



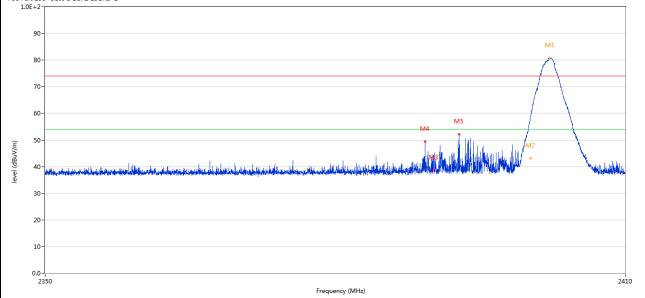
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.127	90.53	-3.57	74.0	16.53	Peak	278.00	100	Horizontal	N/A
2	2400.027	67.55	-3.57	74.0	-6.45	Peak	278.00	100	Horizontal	Pass
2**	2400.027	52.20	-3.57	54.0	-1.80	AV	278.00	100	Horizontal	Pass
3	2390.040	38.21	-3.53	74.0	-35.79	Peak	278.00	100	Horizontal	Pass
4	2395.724	45.30	-3.55	74.0	-28.70	Peak	329.00	100	Horizontal	Pass

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Product:	Wireless Speaker Detector Vertical Keeping Transmitting Test Voltage DC7.4V 24 deg. C, Humidity 56% RH		Vertical
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
CC Part 15C Class B 1GHz-18GHz -2 1.0E+2			
90-			M1



				110	quency (IVII IZ)					
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.172	80.76	-3.57	74.0	6.76	Peak	276.00	100	Vertical	N/A
2	2400.087	58.31	-3.57	74.0	-15.69	Peak	276.00	100	Vertical	Pass
2**	2400.087	43.20	-3.57	54.0	-10.80	AV	276.00	100	Vertical	Pass
3	2390.070	38.43	-3.53	74.0	-35.57	Peak	220.00	100	Vertical	Pass
4	2389.110	49.28	-3.53	74.0	-24.72	Peak	110.00	100	Vertical	Pass
5	2392.634	52.11	-3.54	74.0	-21.89	Peak	100.00	100	Vertical	Pass

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2\*\*

2483.500

40.91

-3.57

54.0



Temperature 24 deg. C, Humidity 56%	7.4V RH -
Test Result:  Pass  ——  CC Part ISC Class B 1GHz-18GHz -2  1.0E+2  90  80  70  60  40  40  40  40  40  30  M2	
CC Part 15C Class B 1GHz-18GHz -2  M1  90- 80- 60- 40- 30-	
1.0E+2	
90- 80- 70- 60- 40	
40	
	Property Hope & State
10-	
0.0-	250
No. Frequency Results Factor Limit Over Detector Table Height ANT	Verd
(MHz) (dBuV/m) (dB) (dBuV/m) Limit (dB) (o) (cm) 1 2479.838 91.03 -3.57 74.0 17.03 Peak 312.00 100 Horizon	
2 2483.500 56.01 -3.57 74.0 17.03 Peak 312.00 100 Horizon	tal N/A

-13.09

ΑV

312.00

100

Horizontal

Pass

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	Product:		Wireless	Speaker		Detec	tor		Vertical	
	Mode	K	Leeping Tra	ansmitting		Test Vo	ltage		DC7.4V	
Т	emperature		24 deş	g. C,		Humid	dity		56% RH	
Т	Test Result:		Pas	SS						
FCC Par 1.08	t 15C Class B 1GHz-18GHz -:	2								
	90-		M1							
	80-		WI WI							
	70-									
	60-									
(m/,	50-		<del></del>	M2						
level (dBuV/m)	40-	. The same that the same the s		***	Mary Mary Mary Mary	to the state of th		haddd ganta berdala		a territoria de la composição de la comp
<u>•</u>	30-									
	20-									
	10-									
	0.0-									
	2470			2483.5 Fr	equency (MHz)					2500
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480.115	80.56	-3.57	74.0	6.56	Peak	253.00	100	Vertical	N/A
2	2483.500	46.13	-3.57	74.0	-27.87	Peak	255.14	100	Vertical	Pass

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The two modulation modes of GFSK, Pi/4D-QPSK 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

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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**

Product:	Wireless	Speaker	Test Mode:	Ke	ep transmitting
Mode	Keeping Tra	ansmitting	Test Voltage	e	DC7.4V
Temperature	24 deg	g. C,	Humidity		56% RH
Test Result:	Pas	SS	Detector		PK
20dB Bandwidth	978k	Hz			
Ref 10 dF	∃m <b>*</b> Att	* VBW	30 kHz Del 100 kHz 5 ms	-0 978.000000	.77 dB 000 kHz
10			Mai	ker 1 [T1 -20	.70 dBm
-0		2 σ	Maa	2.401532 ker 2 [T1	000 GHz A
1 PK MAXH		My	Mai	-1	.35 dBm
20	1	r N	M <sub>1</sub>	2.491868	900 GHz
30	-21.35 dBm		7		
40			1	\	
50				M	3DB
-60				λ,	Maleny
70					
80					
-90					

Date: 21.MAR.2025 14:34:49

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Product:	W	ireless Speak	er	Test	Mode:		Keep transmittin		
Mode	Kee	ping Transmit	ting	Test '	Voltage	DC7.4V		V	
Temperature		24 deg. C,		Humidity			56% R	H	
Test Result:		Pass		Det	tector		PK		
0dB Bandwidth		996kHz							
Ref 10 dF	3m ,	*Att 20 dB		00 kHz	Delta 996 Marker	-0.000000	.03 dB 000 kHz		
-0 PK AXH					2 Marker	2 [T1	000 GHz 2 .26 dBm	A	
20 <u></u>	-21.26 aBm_	1	*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
40	M . /				A A	المرا			
50 <u></u> 0					<i>\</i>	7	1 Men 1	DB	
70									
80 90									
Center 2.4	141 647		300 kHz/			gn=	an 3 MHz		

Date: 21.MAR.2025 14:28:24

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Product:	V	Vireless Speaker Test			Test	Test Mode:		Keep transmitting		
Mode	Kee	ping Tran	smitting		Test Y	Voltage	DC7.4V		4V	
Temperature		24 deg.	g. C, Hun			nidity		56%	RH	
Test Result:		Pass			Det	ector		Pk	<u> </u>	
OdB Bandwidth		996kH	<b>I</b> z							
Ref 10 di	3m	*Att 2(	) dB	*RBW 3 *VBW 1 SWT 5	00 kHz	Delta : 996 Marker	0.0000000	.38 dB 000 kHz		
_0			2			2			A	
<b>PK</b> 10			$\int \!\!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	M		Marker		.42 dBm		
20	-21.42 dBm	1	$\mathcal{N}$	7	V 1					
30					V					
40	لسم كم					A.				
50	~~~~						~		3DB	
-60_	f							m		
70										
80										
-90										
Center 2.	48 GHz		300	kHz/			Spa	n 3 MHz		

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Product:		Vireless S <sub>1</sub>			Test N	Iode:	Ke	ep transmittin
Mode	Kee	ping Tran	smitting		Test Vo	oltage	DC7.4V	
Temperature		24 deg.	C,		Humi	idity		56% RH
Test Result:		Pass			Dete	ctor		PK
20dB Bandwidth		1.272M	Hz			-		
Ref 10 di	Bm	*Att 2	0 dB	*RBW 3 *VBW 1 SWT 5	00 kHz		1 [T1 ] -1	.32 dBm
10								.00 dB
_0			1			BW 1 Temp 1	.2720000 [T1 nd]	
PK			ΙĀ	$\Lambda$				.85 dBm
<b>4AXH</b> 10			J W	مملا	<b>Л</b> .	2 Temp 2	.4013940	000 GHz
			\\ \tau^{\text{\tin}\text{\tin}\exitt{\text{\tin}\tint{\text{\ti}}}\\ \text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\texi}}\tint{\text{\text{\texit{\text{\texi}\tint{\tiint{\text{\texit}\titt{\texitit}}\\tint{\text{\texit{\texi{\texi{\text{\ti}}\tint	(A)	$\mathcal{N}$	_	-21	.40 dBm
20		<del>}</del>				T2 2	.402666	000 GHz
	l f	t e						
30						<del>                                     </del>		
40	<i>√</i> √					m		
- m	My .						ar	V ₃DB
-502								- <del> </del>
60								
70								
70								
80								
-90								
Center 2.	402 GHz		300	kHz/			Spa	n 3 MHz

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Span 3 MHz

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Product:	Wireless S	Speaker	Test Mode	e: Keep to	ansmitting
Mode	Keeping Tra	nsmitting	Test Voltag	ge D0	C7.4V
Temperature	24 deg	g. C,	Humidity	56	% RH
Test Result:	Pas	S	Detector		PK
20dB Bandwidth	1.236N	МНz			
Ref 10 dBm	*Att 1	* VBW	30 kHz Mar 100 kHz 5 ms	ker 1 [T1 ] -1.24 dB 2.440868000 GH	
10			ndB		
		1	BW	1.236000000 MH p 1 [T1 ndB]	Z A
		Λ	Tem	-21.15 dB	_
IAXH		1/1/1/20	Λ. Λ.	2.440394000 GH	z
	\ \frac{1}{\sqrt{1}}		Y [ 4 4 7 ] 1 2 2 2 2	-21.38 dB	m
20	73/		Т2	2.441630000 GH	Z
30					
-40	<b>Y</b>			Who was	3DB
50					A
60					_
70					

Date: 21.MAR.2025 14:13:14

Center 2.441 GHz

300 kHz/

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Product:	,	Wireless Sp	peaker		Test	Mode:		Keep tran	smitting
Mode	Ke	eping Tran	smitting		Test '	Voltage	DC7.4V		.4V
Temperature		24 deg.	C,		Hur	nidity		56%	RH
Test Result:		Pass			Det	ector		Pk	(
0dB Bandwidth		1.278M	Hz						
Ref 10 d	Bm	*Att 20	) dB	*RBW 30 *VBW 10 SWT 5	00 kHz	2		.42 dBm 000 GHz	
_0			1	Λ.		BW 1 Temp 1	.278000 [T1 nd -21	000 MHz	A
10		13		~~	<b>~</b> √√	Temp 2	<del>[T1 nd</del> -21	000 GH2 000 GH2	
30		^							
-40	M					boy	mu	~	3DB
-60									
70									
<b>-</b> -80									
Center 2.	48 GHz		300	kHz/			Spa	ın 3 MHz	

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#### 10.0 FCC ID Label

#### FCC ID: 2BN8X-YM-300

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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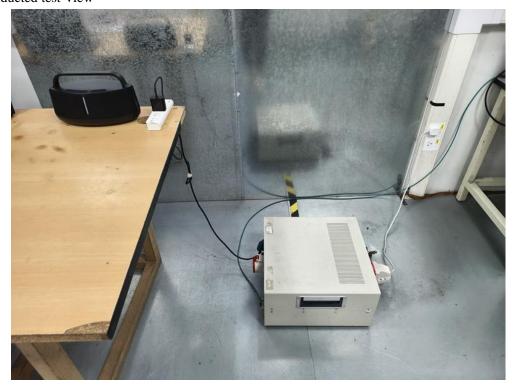
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# 11.0 Photo of testing

#### 11.1 Conducted test View



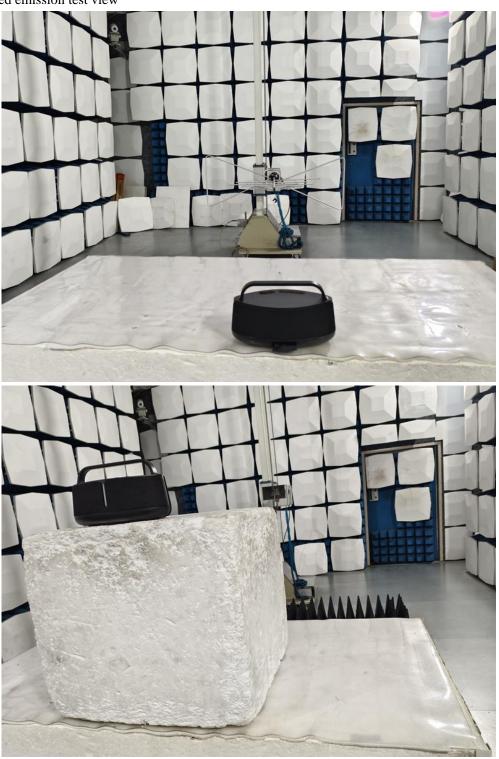
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#### Radiated emission test view



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### 11.2 Photographs – EUT

## Outside View





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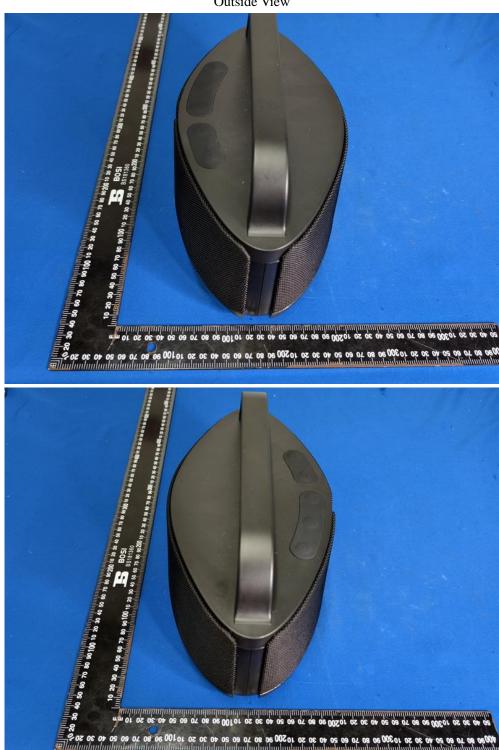
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Outside View



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Outside View



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Inside View





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Inside View





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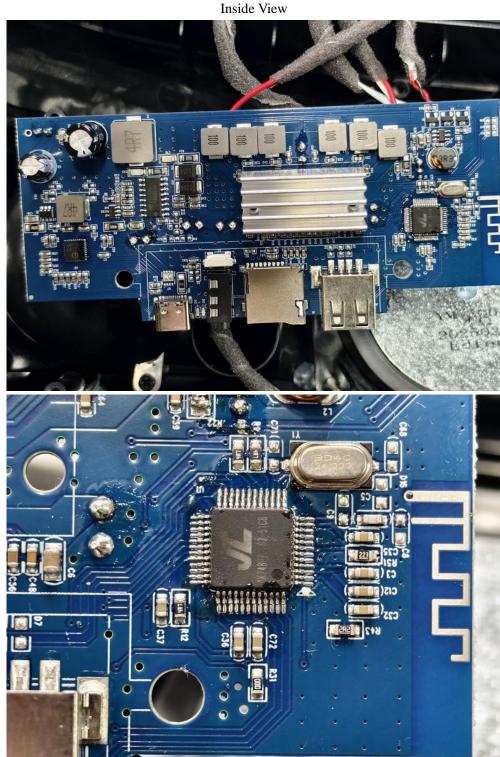
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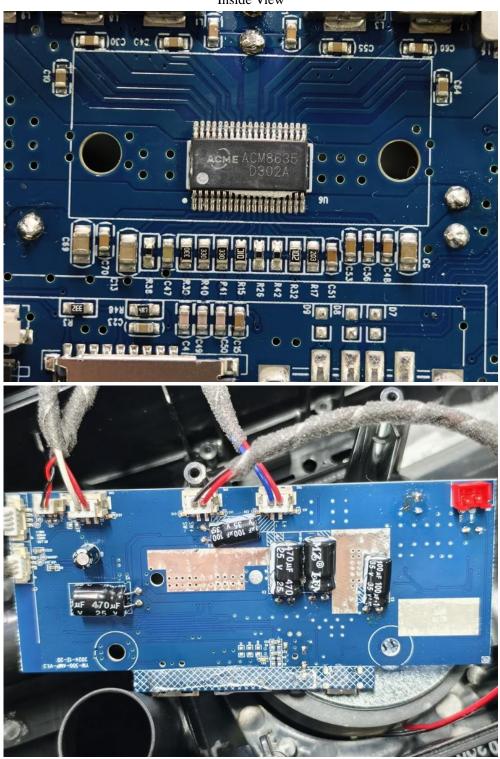
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