

Report No.: TW2503148-01E

Applicant: Shenzhen IDH Industrial Co., Ltd.

Product: Wireless Speaker

Model No.: H18, Stone 350 Pro, Stone 352 Pro, Stone 358 Pro

Trademark: N/A

Test Standards: FCC Part 15.249

It is herewith confirmed and found to comply with the Test result:

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, 15.249 regulations for the evaluation

electromagnetic compatibility

Approved By

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

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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

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Test Report Conclusion

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

11.0

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Photo of Test Setup and EUT View....

Date: 2025-04-01



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: H18, Stone 350 Pro, Stone 352 Pro, Stone 358 Pro

Rating: Input: DC5V

Battery: DC3.7V, 3600mAh Li-ion battery

Serial No.: H1820250215001B Hardware Version: H18-AMP-V1.3

Software Version: YDF_X18_AC6965A(SDK170-Ver5.4)_H18_8DD7-D98BD2A3_202412141621

Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, Л/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

2025-03-14 to 2025-04-01

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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		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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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

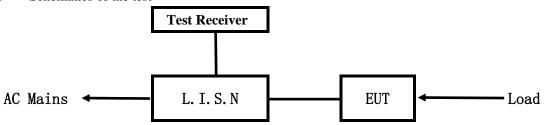
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

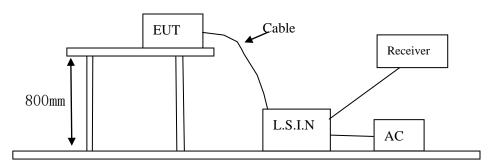


EUT: Equipment Under Test

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.	H18, Stone 350 Pro, Stone 352 Pro, Stone 358 Pro	2BN8X-H18

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 µ 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)

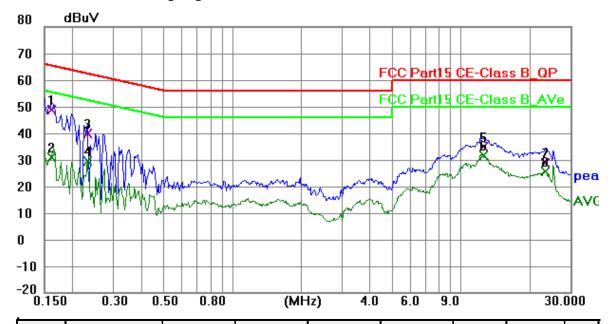
EUT Operating Environment

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	38.25	10.34	48.59	65.38	-16.79	QP	Р
2	0.1617	20.42	10.34	30.76	55.38	-24.62	AVG	Р
3	0.2319	29.51	10.33	39.84	62.38	-22.54	QP	Р
4	0.2319	19.31	10.33	29.64	52.38	-22.74	AVG	Р
5	12.5355	20.38	14.48	34.86	60.00	-25.14	QP	Р
6	12.5355	17.20	14.48	31.68	50.00	-18.32	AVG	Р
7	23.5062	13.21	15.67	28.88	60.00	-31.12	QP	Р
8	23.5062	9.71	15.67	25.38	50.00	-24.62	AVG	Р

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

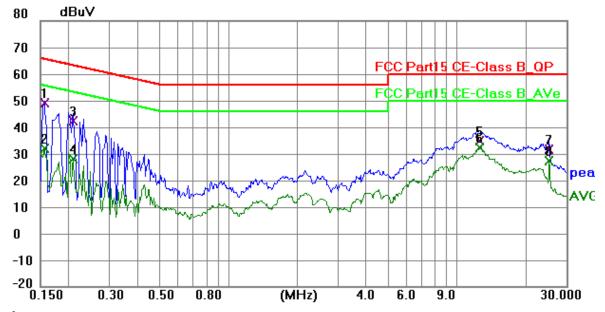
EUT Operating Environment

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	0.1578	38.68	10.34	49.02	65.58	-16.56	QP	Р
2	0.1578	21.71	10.34	32.05	55.58	-23.53	AVG	Р
3	0.2085	32.11	10.32	42.43	63.26	-20.83	QP	Р
4	0.2085	17.82	10.32	28.14	53.26	-25.12	AVG	J
5	12.5355	20.46	14.48	34.94	60.00	-25.06	QP	Р
6	12.5355	17.95	14.48	32.43	50.00	-17.57	AVG	Л
7	25.2300	16.49	15.29	31.78	60.00	-28.22	QP	П
8	25.2300	12.13	15.29	27.42	50.00	-22.58	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:

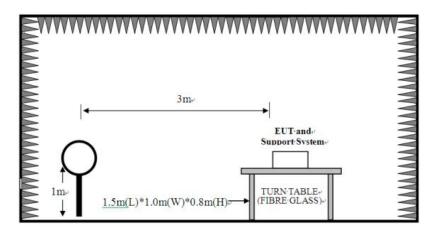
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

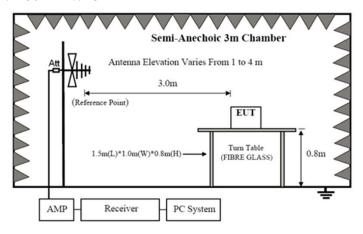


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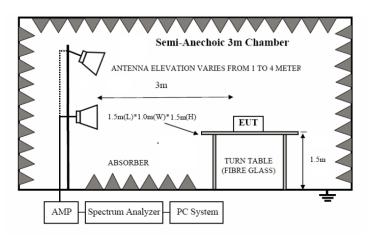
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For radiated emissions from 30MHz to1GHz



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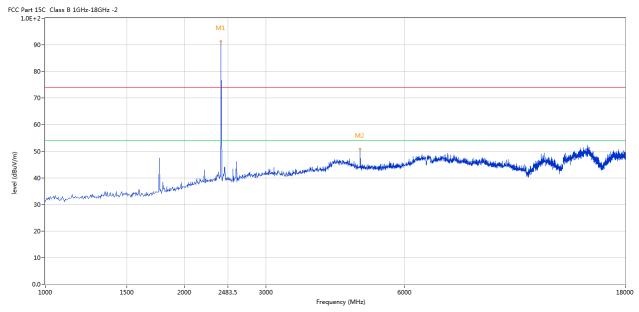


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



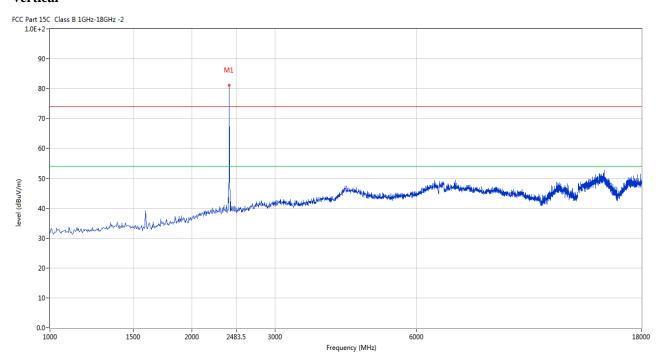
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	91.41	-3.57	114.0	-22.59	Peak	265.00	100	Horizontal	Pass
2	4802.799	50.92	3.12	74.0	-23.08	Peak	271.00	100	Horizontal	Pass

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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	81.25	-3.57	114.0	-32.75	Peak	288.00	100	Vertical	Pass

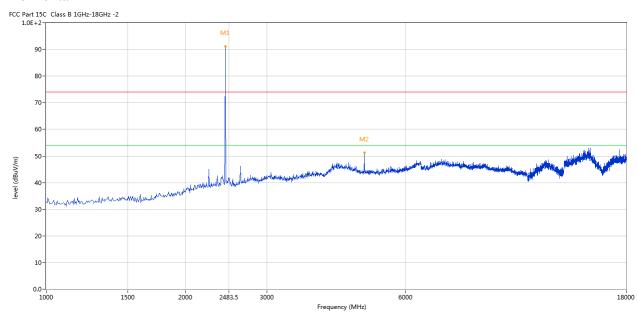
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



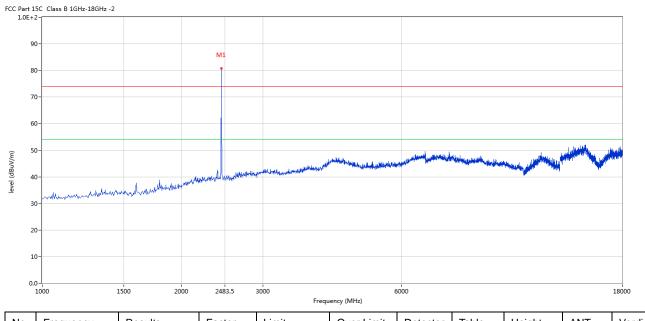
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.09	-3.57	114.0	-22.91	Peak	292.00	100	Horizontal	Pass
2	4883.529	51.19	3.20	74.0	-22.81	Peak	280.00	100	Horizontal	Pass

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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	80.83	-3.57	114.0	-33.17	Peak	320.00	100	Vertical	Pass

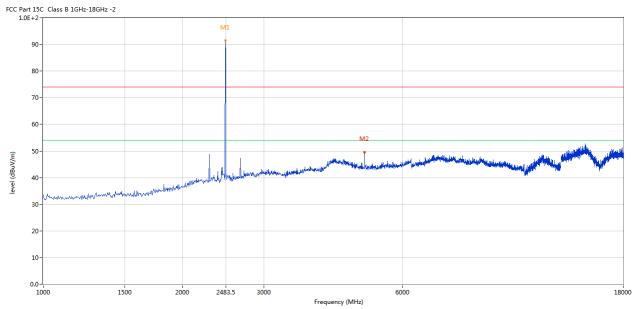
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	91.57	-3.57	114.0	-22.43	Peak	281.00	100	Horizontal	Pass
2	4960.010	49.56	3.36	74.0	-24.44	Peak	272.00	100	Horizontal	Pass

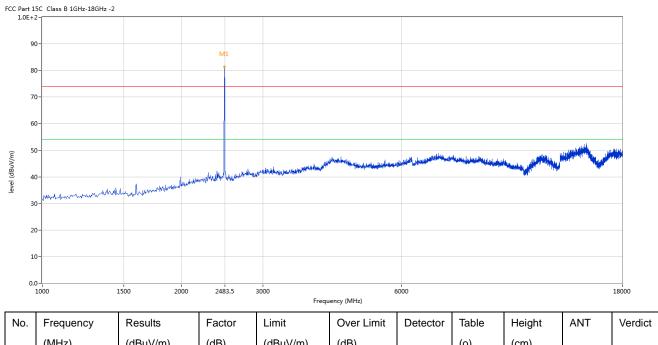
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	81.40	-3.57	114.0	-32.60	Peak	249.00	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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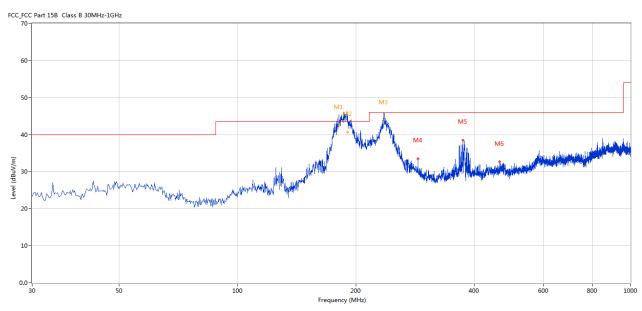


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1*	181.040	42.45	-7.79	43.5	1.05	QP	234.00	100	Horizontal	Pass
2*	190.495	40.61	-7.61	43.5	2.89	QP	37.00	100	Horizontal	Pass
3*	235.589	43.89	-5.33	46.0	2.11	QP	91.00	100	Horizontal	Pass
4	287.956	33.48	-4.48	46.0	12.52	Peak	285.00	100	Horizontal	Pass
5	374.506	38.45	-2.00	46.0	7.55	Peak	12.00	100	Horizontal	Pass
6	464.936	32.63	-0.56	46.0	13.37	Peak	101.00	100	Horizontal	Pass

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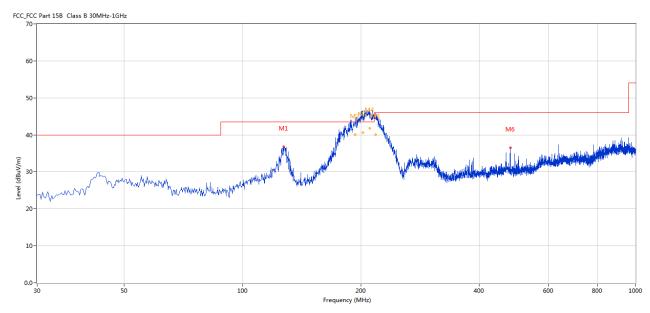


Radiated Emission In Vertical (30MHz----1000MHz)

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	127.461	36.77	-8.29	43.5	6.73	Peak	360.00	100	Vertical	Pass
2*	193.404	40.14	-7.19	43.5	3.36	QP	334.00	100	Vertical	Pass
3*	202.398	40.59	-7.16	43.5	2.91	QP	172.00	112	Vertical	Pass
4*	210.635	41.81	-6.89	43.5	1.69	QP	360.00	101	Vertical	Pass
5*	218.375	40.07	-6.26	46.0	5.93	QP	351.00	100	Vertical	Pass
6	479.968	36.50	-0.95	46.0	9.50	Peak	177.00	100	Vertical	Pass

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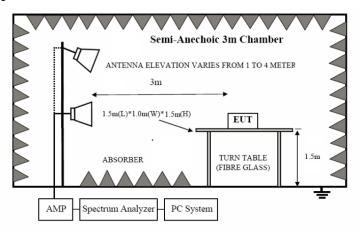


7. Band Edge

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.

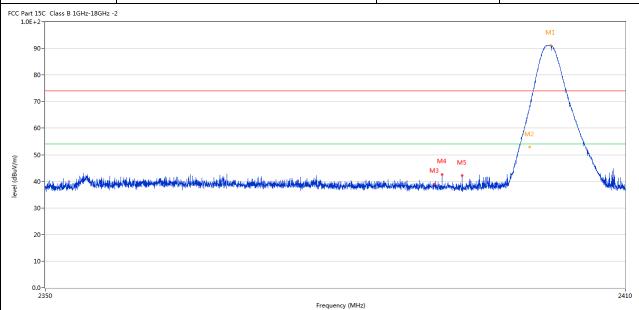
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7.6 Test Result

Product:	Wireless Speaker	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



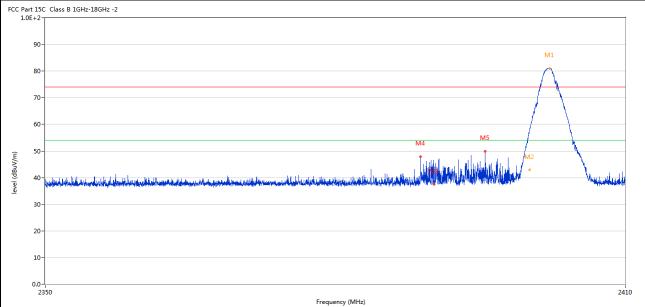
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.187	91.21	-3.57	74.0	17.21	Peak	0.00	100	Horizontal	N/A
2	2400.012	69.27	-3.57	74.0	-4.73	Peak	0.00	100	Horizontal	Pass
2**	2400.012	52.87	-3.57	54.0	-1.13	AV	0.00	100	Horizontal	Pass
3	2390.085	38.91	-3.53	74.0	-35.09	Peak	10.00	100	Horizontal	Pass
4	2390.895	42.61	-3.53	74.0	-31.39	Peak	50.00	100	Horizontal	Pass
5	2392.994	42.15	-3.54	74.0	-31.85	Peak	50.00	100	Horizontal	Pass

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Product:	Wireless Speaker	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18GHz -2 1.0E+2-			



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.082	81.07	-3.57	74.0	7.07	Peak	283.00	100	Vertical	N/A
2	2400.027	58.04	-3.57	74.0	-15.96	Peak	283.00	100	Vertical	Pass
2**	2400.027	42.98	-3.57	54.0	-11.02	AV	283.00	100	Vertical	Pass
3	2390.070	37.56	-3.53	74.0	-36.44	Peak	348.00	100	Vertical	Pass
4	2388.660	47.86	-3.53	74.0	-26.14	Peak	112.00	100	Vertical	Pass
5	2395.379	49.96	-3.55	74.0	-24.04	Peak	118.00	100	Vertical	Pass

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2**

2483.500

40.69

-3.57

54.0



Produc	et:		Wireles	ss Speaker		P	olarity		Horizont	al
Mode	e		Keeping 7	Transmitting		Test	Voltage		DC3.7V	7
Temperat	ture		24 0	deg. C,		Н	ımidity		56% RF	ł
Test Res	ult:		F	Pass						
Part 15C Class B : 1.0E+2-	1GHz-18GHz -2	2								
			M1							
90-										
80-										
70-										
60										
			1							
60-			/							
50-			/	M2						
50-	i palauling van derkelenskelt olit olit	and the second section of the section of the second section of the section of the second section of the section of th	/	M2	mattenul	Marilan da Nicolas Anglias (alabas d	urabaludaji, idhainga darabilishin	All to the state of participation of the december of	garangan kanphagali da palah berjada ada baba	
50-		and the second section of the section of the second section of the second section of the section of the second section of the sectio	/	M2	madenul	trong a party program place of	operations of the street and state of	gen, hallebauer Jajopapus (g. karbal	the transport of the property of the state o	
50- 40-	derbuliwa mendalah dikelah	analong pananistra distri	/	M2	mathemati	trong a party property regulation of	yeshtinka yalladi qoʻladi sa	gin, halik nese kaj pjepanje kahali	itsiinneedis Addisiida salada ka	I describer
50- 40-	i gilinding tan ga daga ka ga ka daga ka		/	M2	American Marie Control	ina (asatiya inasiya da d	nakkinda jedinima nindlakind	eta kalik dari pitenca kirilari	and the state of t	
50- 40-	र्वक्रकेल्लेक्ट्र कर कर सहस्र स्ट्रेस्ट्र स्ट्रेस्ट्र स्ट्रेस्ट्र स्ट्रेस्ट्र स्ट्रेस्ट्र स्ट्रेस्ट्र स्ट्रेस्	analoga pananistra distr	/	M2	madismud	المسار و رکزان کار میرید میا آن میا	undelinks i villa inns innslitera	grafide and physical behind	induced to stage to substitute and a substitute of the substitute	
30 - 20 - 10 - 0.0	agaibuli wa mada da		/			inada patipapa inggala ad	naktivles villaines Analliines	era kalik ana kapenan kabala	kan tanggan kandhari kan din bangan ang tanggan kan bangan kan bangan kan bangan kan bangan kan bangan kan ban	
30- 20-	वंद्रकारीया <u>तीयका प्रश्नास्त्र</u> क्षेत्रकारीयातीयकारीय प्रश्नास्त्र क्षेत्रकारीय स्त्रीय स्त्रीय स्त्रीय स्त्रीय	strachous pourous després de	/	M2 2483.5		المساو و المائية في المساور و المائية و	underlinde go villed nime go vined dense of	pakalani pipang kabu	induces the offential and the transport which	
30 - 20 - 10 - 2470		Results	Factor		6	Detector	Table	Height	ANT	2500
30 - 20 - 10 - 2470	iency		Factor (dB)	2483.5	5 Frequency (MHz)					2500
30- 20- 10- 2470	iency	Results		2483.5	Frequency (MHz)		Table	Height		2500 Verdi

-13.31

ΑV

275.00

100

Horizontal

Pass

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	Product:		Wireless	Speaker		Detec	tor		Vertical	
	Mode	K	Keeping Tr	ansmitting		Test Vo	ltage		DC3.7V	
Т	emperature		24 de	g. C,		Humio	lity		56% RH	
7	Test Result:		Pas	SS						
	rt 15C Class B 1GHz-18GHz -	2								
	90-									
			M1							
	80-			\						
	70-									
	60-									
Œ/	50-		/	,M2						
level (dBuV/m)	40-	Marie			designation and the second	منوعة أسماما فيعافه	nga alipanga ak		appara mandridamenta	december .
leve	30-									
	20-									
	10-									
	0.0-			2483.5						2500
			1	Fr	equency (MHz)	Т	ı			1
No	. Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.905	80.77	-3.57	74.0	6.77	Peak	248.00	100	Vertical	N/A
2	2483.500	45.12	-3.57	74.0	-28.88	Peak	264.86	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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Span 3 MHz

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Test Result

Product:	V	Vireless Sp	eaker		Test M	Iode:	Ke	ep transm	nitting
Mode	Kee	ping Tran	smitting		Test Vo	oltage		DC3.7V	
Temperature		24 deg.			Humi		56% RH		
Test Result:		Pass				ctor	PK		
20dB Bandwidth		978kH	Z						
Ref 10 dl	Bm	*Att 20) dB	*RBW 30 *VBW 10 SWT 5	00 kHz		1 [T1] -0	.71 dB 000 kHz	
10			2			Marker 2	-20	.79 dBm)00 GHz	A
1 PK MAXH 10			\bigwedge			Marker		.33 dBm	
- -20	-21.33 dBm	1	<i>/</i> V	V	1				
30						<u>L</u>			
40						4			
50							my		3DB
-50 -60	,						A	ny	
70									

Date: 21.MAR.2025 14:36:12

Center 2.402 GHz

-90

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300 kHz/

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Product:		W	ireless S	peaker		Test	Mode:		Keep tran	smitting
Mode		Kee	ping Trar	nsmitting		Test `	Voltage		DC3	.7V
Temperatur	e		24 deg.	C,		Hur	nidity	56% RH		RH
Test Result	:		Pass	,		Det	ector		PI	ζ
20dB Bandwi	dth		996kF	łz						
Ref 1	0 dBm	•	Att 2	0 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		1 [T1] -0	.23 dB	
10							Marker	1 [T1	0.4 15	
_0				2			2	-20 .440520	.94 dBm	A
PK				M	Λ Λ		Marker	2 [T1	ı	
10					~/		2	-1	.25 dBm	
			1 f	N.		Y 1				
20	DI -21	.25 dBm_	\			V				
30		7	1				Standard .			
40	1	W					V	May		3DB
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	w V							/	a.Vw	
60										
70										
80		 								
-90										
Center	2.441	GHz		300	kHz/			Spa	n 3 MHz	

Date: 21.MAR.2025 14:26:13

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Product:	Wirel	ess Speaker		Test l	Mode:		Keep tran	smitting
Mode	Keeping	Transmitting		Test V	/oltage	DC3.7V		.7V
Temperature	24	deg. C,	g. C,			56% RH		RH
Test Result:		Pass		Det	ector		Pk	
20dB Bandwidth	9	96kHz		-				
%				kHz	Delta I	0	.42 dB	
Ref 10 d	Bm *At	20 dB	SWT 5 m	s T	996 Marker	.000000 1 [T1	JOO KHZ	
0		2			Marker 2	-21	.39 dBm	A
1 PK MAXH		M	V		Marker	2 [T1 -1	.40 dBm	
	1	N	J.	Λ ¹	2:	. 479868	OO GHZ	
20	-21.4 dBm_	~		V				
30	-			,	The same of the sa			
40	./\/					m		3DB
-50 <u></u>					•	1	~~ ^	
60							7 440	
70								
80								
-90								

Date: 21.MAR.2025 14:24:42

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Product:	W	rireless Sp	peaker		Test M	Iode:	Ke	ep transmi	tting
Mode	Kee	ping Tran	smitting		Test Vo	oltage	DC3.7V		
Temperature		24 deg.	24 deg. C,			idity		56% RH	
Test Result:		Pass			Detector			PK	
20dB Bandwidth		1.230M	Hz						
Ref 10 dB	m ,	*Att 20	0 dB	*RBW 3 *VBW 1 SWT 5	00 kHz	ndB [1	2.4018680	.34 dBm 000 GHz	
PK TAXH				\bigwedge_{a}	Δ	Temp 1	[T1 nd]	8] .99 dBm	A
20	2	J. W.		~~~	age N	Temp 2	-21 -21 2.4026240	.18 dBm .000 GHz	
30									
40 90	mu					M	May	· ΜΛ ³	BDB
-60								- A	
70									
80									
-90									
Center 2.4	O2 GHz		300	kHz/			Spa	n 3 MHz	

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Product:	V	Vireless Speaker		Test 1	Mode:		Keep transmitting
Mode	Kee	ping Transmittin	g	Test V	/oltage	DC3.7V	
Temperature		24 deg. C,	Humidity		56% RH		
Test Result:		Pass		Det	ector		PK
20dB Bandwidth		1.236MHz					
Ref 10 di	3m ·	*Att 20 dB	*RBW 30 *VBW 10 SWT 5	0 kHz		.440862	.26 dBm 000 GHz
		1			BW 1	.236000	000 MHz
-0 -10		A	1	Α.	Temp 1 2	[T1 nd -21 .440394	.35 dBm
20	2		V.	\sim	T2 2	-21 .441630	.32 dBm
30					$\overline{}$		
40 						√^	
200-M	V					, M	3DB
60							
70							
80							
-90							
Center 2.	441 GHz	300	O kHz/			Spa	n 3 MHz

Date: 21.MAR.2025 14:14:36

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Product:	V	Vireless S ₁	peaker		Test	Mode:		Keep tran	smitting
Mode	Kee	eping Tran	smitting		Test '	Voltage		DC3	7V
Temperature		24 deg.	C,		Hur	nidity	56% RH		RH
Test Result:		Pass			Det	tector	PK		
20dB Bandwidth		1.278M	Hz						
Ref 10 dl	Bm	*Att 2(0 dB	*RBW 3(*VBW 1(SWT 5	00 kHz		.479868 1] 20 .278000	.42 dBm 000 GHz .00 dB	A
-0 PK VAXH		~		1	M		-21 .479400 [Tl nd	.11 dBm	
20	f	11.4				T2 2	.480678	000 GHz	
30						M	^		
-5p_^_	1 2 N2						, , , , , , , , , , , , , , , , , , ,	1	3DB
60									
70									
80									
-90									
Center 2.	I 48 GHz		300	kHz/			Spa	ın 3 MHz	

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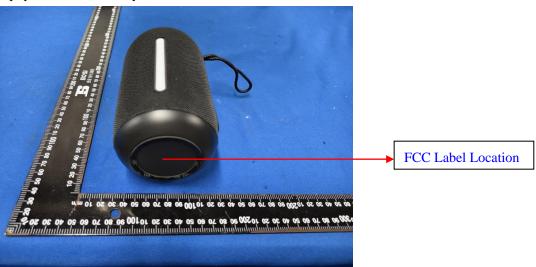
Date: 2025-04-01



10.0 FCC ID Label

FCC ID: 2BN8X-H18

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.



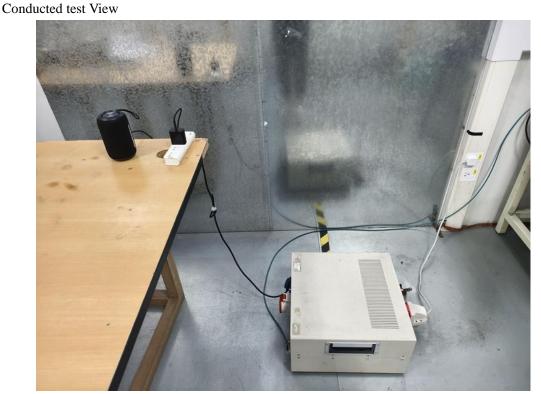
Mark Location:

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11.0 Photo of testing11.1 Conducted test Vi



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Radiated emission test view



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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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Inside View





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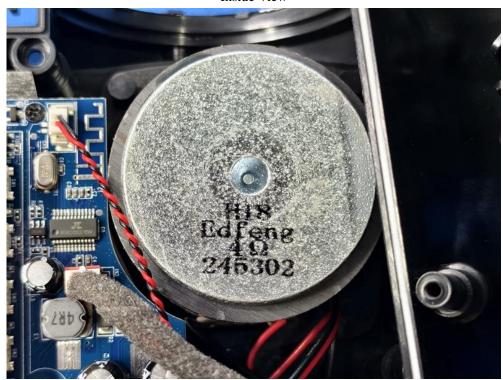
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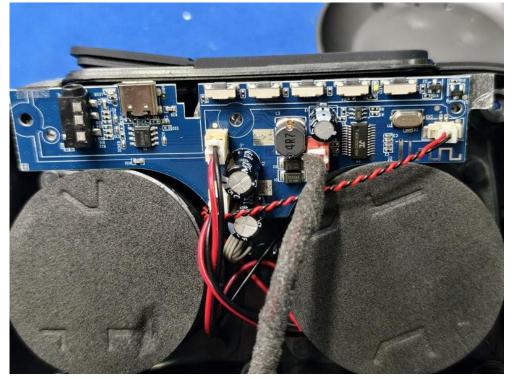
Report No.: TW2503148-01E

Date: 2025-04-01



Inside View





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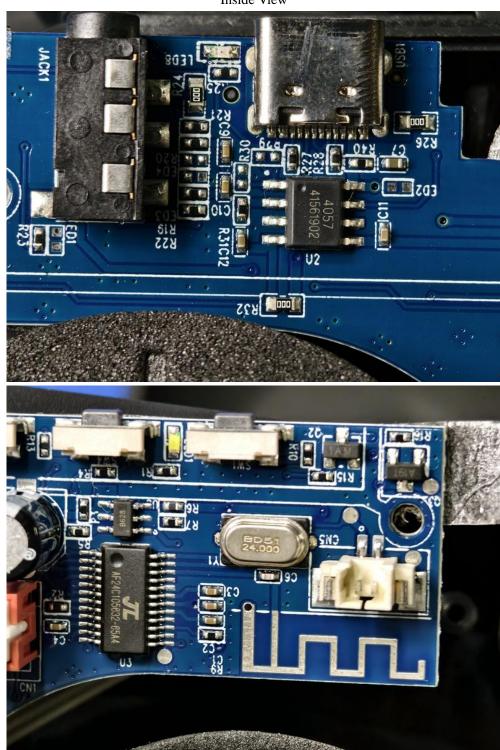
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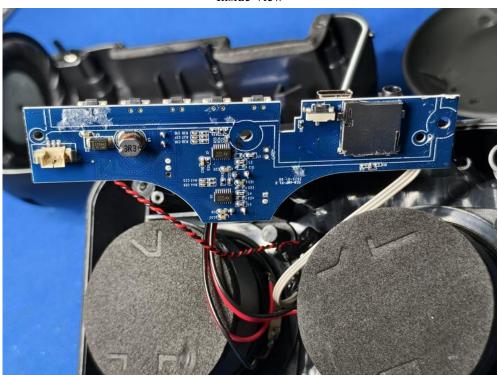
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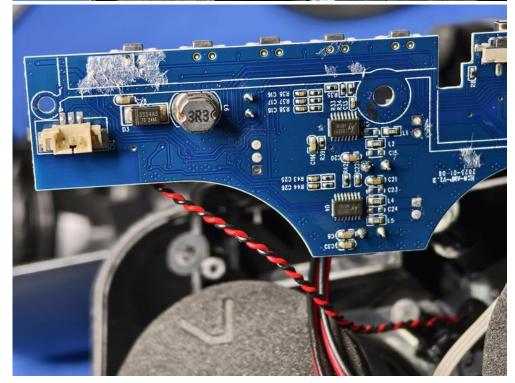
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Inside View





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