

Report No.: TW2307385E

Applicant: TECHNOFASHION INC.

Product: Portable Wireless Speaker

Model No.: UCCSP01, UCCSP01-1, UCCSP01-2, UCCSP01-3,

UCCSP01-4

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

Tong long

Terry Tang

Manager

Dated: August 08, 2023

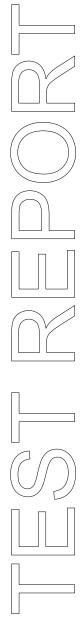
Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to

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:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

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

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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: TECHNOFASHION INC.

Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Telephone: +1 (973) 866 7373

Fax: --

1.3 Description of EUT

Product: Portable Wireless Speaker
Manufacturer: TECHNOFASHION INC.

Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Trademark: N/A

Model Number: UCCSP01

Additional Model Name UCCSP01-1, UCCSP01-2, UCCSP01-3, UCCSP01-4

Rating: Input: DC5V, 1A, Output: 15W Battery: DC3.7V, 800mAh Li-ion battery

Modulation Type: GFSK, Л/4DQPSK, 8DPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz

Hardware Version: SL8219-01L

Software Version: SL8219(NAUTICA SP100)_TONE 音 2_MIC 省

_EQ_OSC38_5368E_1C99FABD_230607

Serial No.: UCCSP01202305

Antenna Designation PCB antenna with gain 1.7dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration 2023-07-24 to 2023-08-08

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	2023-07-14	2024-07-13			
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13			
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13			
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13			
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17			
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13			
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	2024-07-17			
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13			
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13			
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	2023-07-14	2024-07-13			
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13			
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13			
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13			
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2023-07-14	2024-07-13			
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13			
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13			
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13			
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13			
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13			
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13			

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 E	UT has	been	tested	accord	ling to	o 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

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

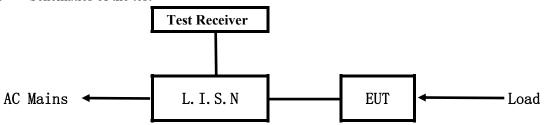
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

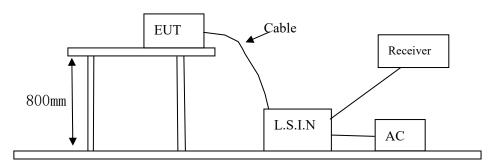


EUT: Equipment Under Test

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.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
		UCCSP01, UCCSP01-1,	
Portable Wireless Speaker	TECHNOFASHION INC.	UCCSP01-2, UCCSP01-3,	2AZBO-N00023
		UCCSP01-4	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

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		
$0.15 \sim 0.50$	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)

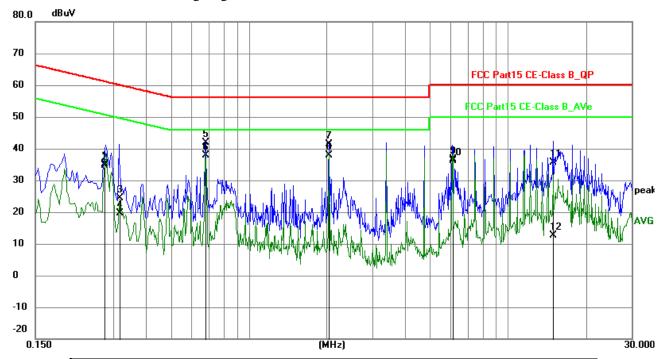
EUT Operating Environment

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

EUT set Condition: Charging + 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	0.2770	25.39	9.76	35.15	60.91	-25.76	QP	Р
2	0.2779	24.94	9.76	34.70	50.88	-16.18	AVG	Р
3	0.3170	14.60	9.76	24.36	59.79	-35.43	QP	Р
4	0.3170	9.80	9.76	19.56	49.79	-30.23	AVG	Р
5	0.6800	32.07	9.78	41.85	56.00	-14.15	QP	Р
6	0.6800	28.19	9.78	37.97	46.00	-8.03	AVG	Р
7	2.0410	31.70	9.80	41.50	56.00	-14.50	QP	Р
8	2.0410	28.01	9.80	37.81	46.00	-8.19	AVG	Р
9	6.1210	26.70	9.97	36.67	60.00	-23.33	QP	Р
10	6.1250	26.17	9.97	36.14	50.00	-13.86	AVG	Р
11	14.9690	25.17	10.38	35.55	60.00	-24.45	QP	Р
12	14.9700	2.20	10.38	12.58	50.00	-37.42	AVG	Р

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

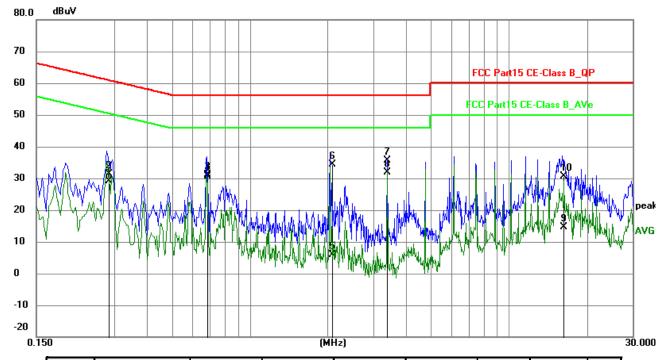
EUT Operating Environment

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

EUT set Condition: Charging + 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	0.2850	19.39	9.76	29.15	50.67	-21.52	AVG	Р
2	0.2860	21.54	9.76	31.30	60.64	-29.34	QP	Р
3	0.6840	21.23	9.78	31.01	46.00	-14.99	AVG	Р
4	0.6850	20.91	9.78	30.69	56.00	-25.31	QP	Р
5	2.0740	-4.04	9.80	5.76	46.00	-40.24	AVG	Р
6	2.0830	24.64	9.80	34.44	56.00	-21.56	QP	Р
7	3.3970	25.87	9.86	35.73	56.00	-20.27	QP	Р
8	3.3970	22.09	9.86	31.95	46.00	-14.05	AVG	Р
9	16.2020	4.29	10.45	14.74	50.00	-35.26	AVG	Р
10	16.2110	20.10	10.45	30.55	60.00	-29.45	QP	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:

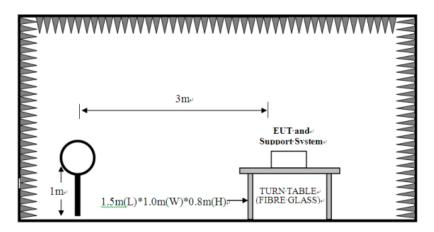
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

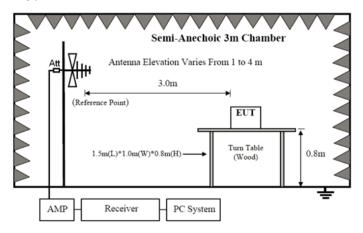


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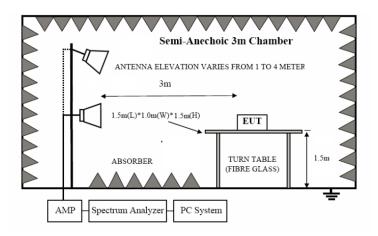
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For radiated emissions from 30MHz to1GHz



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)
ZT00-ZT03.3	50	JT (Average)	11 1 (1 cak)	500	J+ (Average)	/4 (FCak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF 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	40.0
88-216	3	43.
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 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. This is a portable device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 7. Battery fully charged was used during the test.

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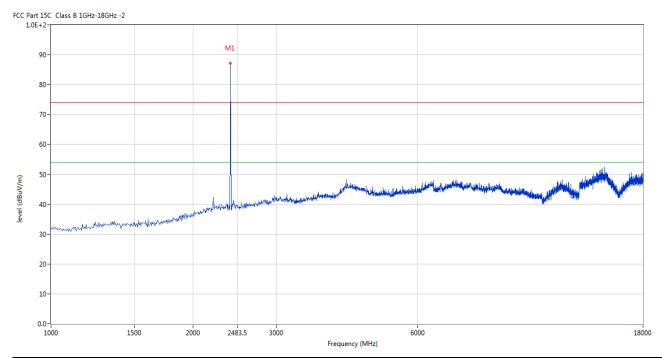


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



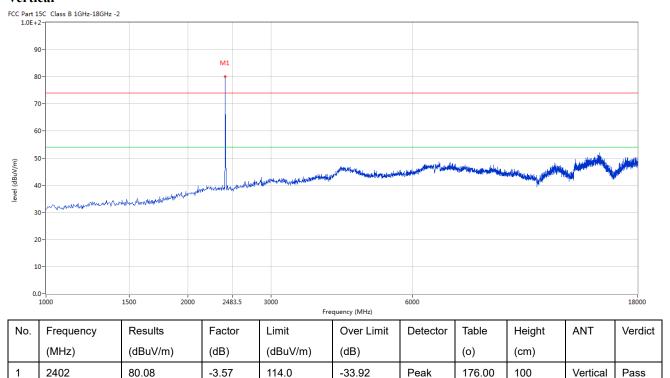
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	87.44	-3.57	114.0	-26.56	Peak	141.00	100	Horizontal	Pass

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Vertical



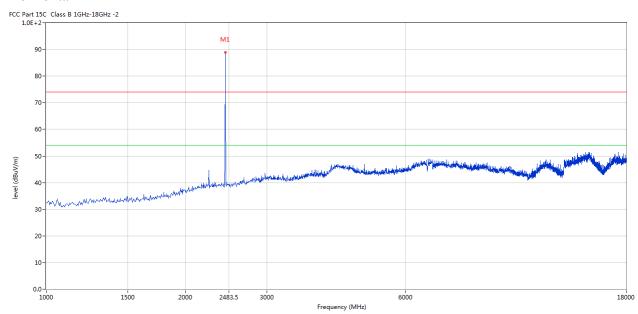
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



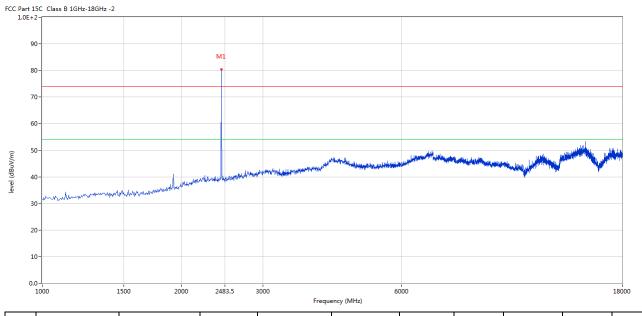
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2441	88.85	-3.57	114.0	-25.15	Peak	131.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2441	80.33	-3.57	114.0	-33.67	Peak	58.00	100	Vertical	Pass

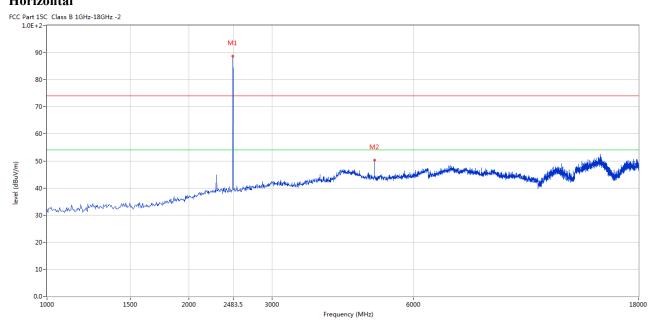
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



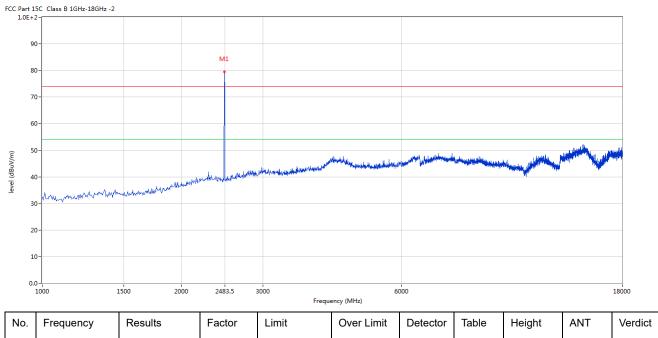
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	88.92	-3.57	114.0	-25.08	Peak	148.00	100	Horizontal	Pass
2	4960.010	50.23	3.36	74.0	-23.77	Peak	57.00	100	Horizontal	Pass

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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	79.39	-3.57	114.0	-34.61	Peak	44.00	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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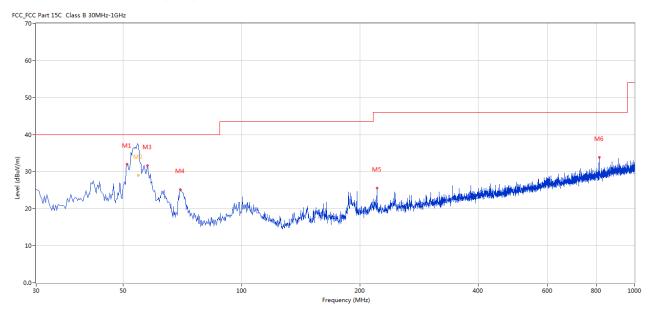


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	51.092	32.02	-11.41	40.0	7.98	Peak	305.00	100	Horizontal	Pass
2	54.512	36.96	-11.66	40.0	3.04	Peak	274.00	101	Horizontal	Pass
2*	54.512	28.96	-11.66	40.0	11.04	QP	274.00	101	Horizontal	Pass
3	57.638	31.66	-12.53	40.0	8.34	Peak	284.00	100	Horizontal	Pass
4	69.760	25.20	-15.58	40.0	14.80	Peak	250.00	100	Horizontal	Pass
5	221.042	25.54	-13.27	46.0	20.46	Peak	6.00	100	Horizontal	Pass
6	812.594	33.90	-2.94	46.0	12.10	Peak	181.00	100	Horizontal	Pass

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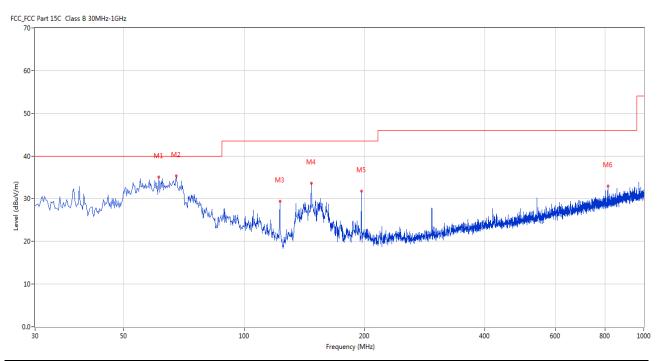


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	61.275	35.06	-13.14	40.0	4.94	Peak	350.00	100	Vertical	Pass
2	67.578	35.39	-14.47	40.0	4.61	Peak	289.00	100	Vertical	Pass
3	122.854	29.45	-15.86	43.5	14.05	Peak	223.00	100	Vertical	Pass
4	147.341	33.65	-17.22	43.5	9.85	Peak	248.00	100	Vertical	Pass
5	196.556	31.73	-13.56	43.5	11.77	Peak	243.00	100	Vertical	Pass
6	812.594	32.94	-2.94	46.0	13.06	Peak	327.00	100	Vertical	Pass

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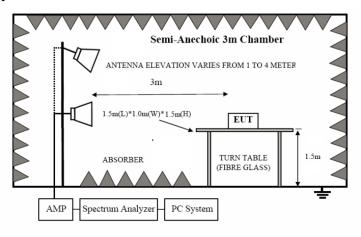


7. Band Edge

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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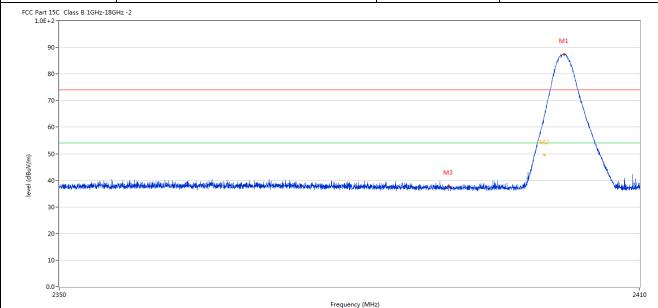
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7.6 Test Result

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



No. Limit Over Limit Table Height **ANT** Verdict Frequency Results Factor Detector (MHz) (dBuV/m) (dB) (dBuV/m) (dB) (o) (cm) 2402.112 87.41 -3.57 74.0 13.41 Peak 144.00 100 Horizontal N/A 2 2400.042 64.48 -3.57 74.0 -9.52 Peak 144.00 100 Horizontal **Pass** 2** 2400.042 49.44 -4.56 -3.57 54.0 ΑV 144.00 100 Horizontal Pass 3 2390.070 37.82 -3.53 74.0 -36.18 Peak 154.00 100 Horizontal Pass

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]	Product:	Por	table Wire	less Speaker		Detect	or		Vertical	
	Mode	K	Leeping Tra	ansmitting		Test Vol	tage		DC3.7V	
Te	emperature		24 deg	g. C,		Humid	ity		56% RH	
Te	est Result:		Pas	SS						
	rt 15C Class B 1GHz-18GH	Hz -2								
	90-									
	80-								M1	
	70-									
	60-									
								<i></i>	N	
<u>-</u>	50-								/	
dBuV/m)						M3		M2		
level (dBuV/m)	50- 40-	hitelandistrirajdomistrikationindulantillandist	iş avildi, gerê eş dêşkaştı beştireyi telad	ىردادىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدى	thinkspieristassittyseenkaille		ily ddioso nydd gy <mark>yddiodd</mark>	M2		essakeljaden alake
level (dBuV/m)	40	hitter funds mijdenskelde sind Jensthydrike	เจาะที่ในของจะก็สิ่นเปลี่ยยใหญ่ก็เลื่อยีกใหญ่ก็เก่	Salahalati ila da da gapi dika asarik d	Abrico fire-two descriptions of the Arms for the		indrakoasa, isika ingelesika	M2		e sentratul ordinario del tret
level (dBuV/m)	40-	https://doi.orgide.copherlage.ives.loogide.poide	ise and have to display to the distribution of a	હતું કે કેલ કેલ કેલ કેલ કેલ કેલ કેલ કેલ કેલ	libiation interestint perculation		indrakusan pakarin indrakar	M2		organis propagation and states.
level (dBuV/m)	40- White manages before many attended	hittiga filish di ny jelencish et len pina di new dinebelet	ing and h _a made and deployed by the singular made and	والغنام والمراواة وا	lipining industrial grown hadi		ing disease paga disease disea	M2		o de la constanta de la consta
	30- 20-	delaya taka in melekunik dela di melekunik di kenala kenala kenala kenala kenala kenala kenala kenala kenala k	is and house in Alabas habitations per and	deli den el esta de la descripción del descripción de la descripci	lipingkap purkampunksyawa da Ma		المراجع والمراجع والم	M2		runga diga dilak
	40- 30-	http://do.do.orgide.co.phe/socies_localitectode	is and have to the back the section as		higher and the light of the lig		فيخطه ووجروا لديوسل خالم	M2		11. 1 pp. 1
	30- 10-	Results	Factor				Table	M2 ***	ANT	241
	30 - 20 - 10 - 2350				Frequency (MHz)	tide philiphyman entity in a	Table	odnickowski do P	ANT	241
No.	30- 20- 10- 2350	Results	Factor	Limit	Frequency (MHz) Over Limit	tide philiphyman entity in a		Height	ANT Vertical	241
No.	30- 20- 10- 0.0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(o)	Height (cm)		²⁴¹
(w/\ngp) pave No.	30- 20- 10- 2350 Frequency (MHz) 2402.292	Results (dBuV/m) 80.03	Factor (dB)	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 6.03	Detector Peak	(o) 149.00	Height (cm)	Vertical	Verdi

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P	Product:	Po	ortable Wi	reless Speak	er	P	olarity		Horizont	al	
	Mode		Keeping 7	Fransmitting		Test	Voltage		DC3.7V	I	
Ter	mperature		24 d	leg. C,		Н	ımidity		56% RH		
Tes	st Result:		P	Pass							
FCC Part 1.0E+	15C Class B 1GHz-18GF	-1z -2									
	90-		M1	L							
				and a							
8	80-			1							
7	70-		-/-	1							
			/	\							
	60-			M.M.	2						
	50-			M	2						
				h.	2 Norman Marie Mar		ان و بالاران و را				
level (dBuV/m)	40-	Malida Marana da		My	2	i i i i i i i i i i i i i i i i i i i	erzentekej kilokilokilokilokilokilok	والمعادية والمعادلة	in the section of the	America francis	
level (dBuV/m)	50-	National Management		Myde	2 Management of the state of th	Mahana	ومستوارية أأشار الأمرية فأميره	المهادية في المهدمة المبادية والمعادلة المبادلة المبادلة المبادلة المبادلة المبادلة المبادلة المبادلة المبادلة	de proposition de la constitución de la constitució	And the state of t	
level (dBuV/m)	40-	Maddid de la lacenta de la		Myde	2	Whitehum	acarida dha dha an	المصاديد باستهدار والمعدلية		handen quark el	
level (dBuV/m)	50- 40- 30-	Mahidulatura da		Market Company	2	Mikilahu	manadaga Madalah dagan	testago bacapta sabargiba	dangsi dalah da pelangsi pengar	Marrian Harke	
level (dBuV/m)	50 - 40 - 30 - 20 - 10 - 0.0			Market State of the State of th	2	Whitehousen	accounting that the a subseque	ingalaga bina, apido abang bina	ann ann am an Airthean de Airte		
level (dBuV/m)	50- 40- 30- 20-	Mahidu kanada da		248	3.5 Frequency (MHz)	Mahahul	anning plant den kang n	lesiage ba _{ren} tir de les Lesiberg (ha	de seguente de la dela de la consequence del la consequence del la consequence de la consequence del la consequence de l	2500	
level (dBuV/m)	50 - 40 - 30 - 20 - 10 - 0.0	Results	Factor	248 Limit		Detector	Table	Height	ANT	2500	
level (dBuV/m)	50 - 40 - 30 - 20 - 10 - 0.0 - 2470		Factor (dB)		Frequency (MHz)	(Company and Company and Compa	The second secon	Height (cm)		2500	
level (dBuV/m)	50- 40- 30- 20- 10- 2470	Results		Limit	Over	(Company and Company and Compa	Table	_			

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]	Product:	Poi	rtable Wire	eless Speaker		Detec	tor		Vertical	
	Mode	F	Keeping Tr	ansmitting		Test Vo	ltage		DC3.7V	
Te	mperature		24 de	g. C,		Humio	lity	56% RH		
Te	est Result:		Pa	SS						
	rt 15C Class B 1GHz-18GF E+2-	lz -2			•			•		
	90-									
	80-		M	1						
	70-									
level (dBuV/m)	50- 40- Websensanskrivendeling 30-	delineration and the state of t		M2	مستخدير فالمعارض والمعارض والم	adiaphistaapaa yaasi seetiin d	te de findre en d'assertier es la	riaddy, i dhadayaa waxada haba d	tang and a side-similar physical and the	i in the part of the second
level (dBuV/m)	40-	ulukan kenanda kenanda da d		M2		odkladkietoko kon reni siinistei di	tidas festinas despuidan esta	rtedik çikledinye enert eşkiliye	den gir stade finisier fyr a wedd fe	proplanatules.
level (dBuV/m)	30 - 20 - 10 - 2470			1	5 Frequency (MHz)	administration for the section of				2500
(m/\ng/) level (dBn/\mu)	30 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	5	Detector	Table (o)	Height (cm)	ANT	2500
	30- 20- 10- 2470	Results		Limit	5 Frequency (MHz)		Table	Height		

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

2. For Restricted band test, 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. The antenna gain is 1.7dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Keepi	-						Keep tran		0
Keeping Transmitting 24 deg. C,					st Voltage		DC3		
					Iumidity		56%		
]			Pk		
ndB	20.	.00 dB	VI	ВW	100 ki	Hz		20	dB dBm
BW 00:	1	T KHZ	J. V	V 1			11.0		авш
			1		1	[T1]	-1 2.40200		dBm GHz
		\\\\\	V		ndB BW		20 9.77955	912	dB kHz
	<u></u>	N		7	1			609	dBm GHz
	TA				T2 T2	[T1]			
	كمر				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		2.40243	307	GIIZ
						~\			
							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
									men
	Marker ndB	Marker 1 [T1 r ndB 20.BW 889.779559	889.78kHz Marker 1 [T1 ndB] ndB 20.00 dB BW 889.77955912 kHz	889.78kHz Marker 1 [T1 ndB] Ri ndB 20.00 dB Vi BW 889.77955912 kHz Si	889.78kHz Marker 1 [T1 ndB] RBW ndB 20.00 dB VBW BW 889.77955912 kHz SWT	889.78kHz Marker 1 [T1 ndB] RBW 30 kI ndB 20.00 dB VBW 100 kI BW 889.77955912 kHz SWT 8.5 ms	889.78kHz Marker 1 [T1 ndB] RBW 30 kHz RH ndB 20.00 dB VBW 100 kHz BW 889.77955912 kHz SWT 8.5 ms Ur V1 [T1] BW 889	889.78kHz	889.78kHz Marker 1 [T1 ndB] RBW 30 kHz RF Att 20 ndB 20.00 dB VBW 100 kHz BW 889.77955912 kHz SWT 8.5 ms Unit 1 [T1] -1.03 2.40200301 ndB 20.00 BW 889.77955912 VT. [T1] -20.89 2.40154609

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GFSK								
Product:	Portable V	Wireless Speaker	,	Test Mode:	Keep tr	ansmitting		
Mode	Keepin	g Transmitting	7	Test Voltage	DO	C3.7V		
Temperature	24	4 deg. C,		Humidity	56% RH			
Test Result:		Pass		Detector	PK			
20dB Bandwidth	88	89.78kHz						
Ref Lvl	Marker ndB	RBW VBW	30 kHz 100 kHz		20 dB			
10 dBm	BW 889).77955912 kHz	SWT	8.5 ms	Unit	dBm		
10			-	V 1 [5	2.4410	1.28 dBm A		
0		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	M	ndB BW V T1	889.7795!			
-10		T1	\	^	T1] -2 2.4405 [T1] -2			
-20 1MAX				W	2.4414	3587 GHz 1MA		
-30	~	/		W	\			
-40	mon and				hung			
-50	√				<u></u>	- white was		
-60								
-70								
-80								
-90 Center 2	.441 GHz	300	kHz/		Spa	an 3 MHz		
		02:57	•		.51			

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GFSK										
Product:	P	ortable V	Wireless S	peaker	,	Test Mode:		Keep tra	ansmitting	
Mode		Keeping	g Transmi	tting	1	est Voltage	:	DC	23.7V	
Temperature		24	4 deg. C,			Humidity	56% RH			
Test Result:			Pass			Detector		PK		
20dB Bandwidth		88	89.78kHz							
	Marker 1 [T1 ndB]				RBW	30 k	Hz RI	7 Att	20 dB	
Ref Lvl		ndB		00 dB	VBW	100 k				
10 dBm	E	3W 889	.779559	12 kHz	SWT	8.5 m	s Ur	nit	dBm	<u>.</u>
						v ₁	[T1]	-2	.49 dBm	A
0								2.48000		
				VW4		ndE BW	0.0	20 9.77955	.00 dB 912 kHz	
-10					VY	$oldsymbol{ abla}_{ ext{T1}}$. [T1]	-22 -22	.21 dBm	
-10			^	$\sqrt{}$	\			2.47954	609 GHz	
			T 1		\	$\bigvee_{\mathbf{T}} \nabla_{\mathbf{T}_{2}}$	[T1]	-22	.26 dBm	
-20 1MAX						W.		2.48043	587 GHz	1MA
-30		مم	/				~			
-40	ma	~~						\sim		
-50								\um_	a de la composição de l	
-60										
-70										
-80										
-90 Center 2.	48 GHz			300	kHz/			Spa	an 3 MHz	
Date: 4.A	AUG.202	3 14:	05:39							

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T/4DQPSK Product:		Portable	Wireless	Sneaker		Т	est Mode:		Keep tran	emitting	
Mode									DC3		
			ng Transm			1	est Voltage		56%		
Temperature Test Result:			24 deg. C, Pass				Humidity Detector		26% PF		
20dB Bandwidth			1.269MHz								
	Marker 1 [T1 ndB] ndB 20.00 dB					BW	30 k		F Att	20 dB	
Ref Lvl 10 dBm		ndB BW 1	20. 1.268537			BW WT	100 k 8.5 m		nit	dBm	
10 abiii		BW 1	1.20053/	O / MHZ	51	ΝI		S 01	1111	авш	1
							v ₁	[T1]	-1	.04 dBm	Z
0				_					2.40200	301 GHz	
				$\bigwedge \bigwedge \int$	Λ.		ndE		20 1.26853	.00 dB	
					V			[T1]	-20	707 MHz	
-10			/^/	∀		_			2.40136		
	TA						▼ _T 2 _{T2} [T1]		-20.96 dBt		
-20	7							7	2.40263	427 GHz	11
IMAX								\			1
-30								-\			
								\			
-40		\						1~	Λ		
	. 1	\\\\\						W /	Ty.		
-50									- Low		
										~~	
-60											
-70											
, ,											
-80											
-90 Center 2.	400 8	T-		300	kHz/				G	n 3 MHz	J

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Product:		Portable '	Wireless S	peaker		Т	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting		Te	est Voltage	;	DC	3.7V	
Temperature		2	4 deg. C,]	Humidity		56%	6 RH	
Test Result:			Pass				Detector		F	PK	
0dB Bandwidth		1.	275MHz								
Ŕ		Marker	1 [T1 n	ndB]	R	BW	30 k	Hz RI	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 k				
10 dBm		BW 1	L.274549	010 MHz	S	WT	8.5 m	s Uı	nit	dBm	ı
10							lacksquare1	[T1]	-1	.37 dBm	A
				-					2.44100	301 GHz	-
0				ΛΛ	Λ		ndF	3	20	.00 dB	
			^	/ \ \	\	١	M VT1	[T1]	1.27454	910 MHz .36 dBm	
-10			- /~√~`	<u>√</u>	Ť			. [11]	2.44035		
		TT 2	\checkmark				∇_{T}	[T1]	-21	.55 dBm	
-20							<u> </u>	7	2.44163	427 GHz	
1MAX								1			1M
-30		- -						-\			
-40								1.0	^		
	<u> </u>	///v						W - \	hy .		
-50	MW V								how	www.	
-60											
-70											
-80											
-90											
Center 2	.441 GI	Hz		300	kHz/				Spa	n 3 MHz	

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Product:		Portable '	Wireless S	peaker		T	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage		DC	3.7V	
Temperature		2	4 deg. C,]	Humidity		56%	6 RH	
Test Result:			Pass				Detector		F	·Κ	
OdB Bandwidth		1.	.275MHz								
Ŕ		Marker	1 [T1 n	ıdB]	R	.BW	30 ki	Hz RI	7 Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 k				
10 dBm		BW 3	L.274549	10 MHz	S	WT	8.5 m	s Uı	nit	dBm	1
10							\blacktriangledown_1	[T1]	-2	.51 dBm	A
									2.48000	301 GHz	
0				^ ^ /	\		ndB		20	.00 dB	
				/\/ \/	\	\	BW ▼ _T 1	[T1]	1.27454	910 MHz	
-10			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V		₩	V)	[TI]	2.47935		
			\checkmark				^ <u>J</u> _2	[T1]	-22	.72 dBm	
-20		3					\ 	r2 ∇	2.48063	427 GHz	
1MAX								7			1M
-30											
-40	. 🔨	V							<u>\</u>		
-50	V								hum	mmen	
-60											
-70											
-80											
-90 Center 2	48 CH	Z.		300	kHz/				gn a	n 3 MHz	

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8DPSK					
Product:	Portable Wireless S	Speaker	Test Mode:	Keep tran	smitting
Mode	Keeping Transm	itting	Test Voltage	DC3	.7V
Temperature	24 deg. C,		Humidity	56%	RH
Test Result:	Pass		Detector	Pl	ζ
20dB Bandwidth	1.244MHz				-
	Marker 1 [T1 n	ıdB] RI	30 kH	Iz RF Att	20 dB
Ref Lvl			BW 100 kH		
10 dBm	BW 1.244488	98 MHz SI	VT 8.5 ms	s Unit	dBm
10			v ₁	[T1] -1	.06 dBm
		1		2.40200	
0		$\wedge \wedge \wedge \wedge$	ndB	20	.00 dB
	_ ^~	V / / W/	BW VT1	1.24448 [T1] -21	898 MHz
-10					978 GHz
	т/		VT	-21	.04 dBm
-20 1MAX	6			2.40263	427 GHz 1MA
-30	/ /			<u> </u>	
-40				VW	
-50 May				- Lunc	~~~~~
-60					
-70					
- 70					
-80					
-90 Center 2.402	GHz	300 kHz/		Spa	n 3 MHz
Date: 4.AUG.	.2023 14:11:20				

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Duoduoti		Doutoble V	Wineless C	maalran	J	\mathbf{T}	at Mada.		Voon too	namittin ~	
Product:			Wireless S				est Mode:			nsmitting	
Mode			g Transmi	uing			st Voltage	:		3.7V	
Temperature		2	4 deg. C,				Iumidity			6 RH	
Test Result:			Pass				Detector			PK .	
0dB Bandwidth		1.	238MHz								
			1 [T1 r			BW	30 k		7 Att	20 dB	
Ref Lvl		ndB		00 dB		BW	100 k				
10 dBm		BW 1	.238476	95 MHz	S	WT	8.5 m	s Ui	nit	dBm	1
							v ₁	[T1]	-1	.29 dBm	A
									2.44100	301 GHz	
0				ΛΛ(Λ Λ		ndE		20	.00 dB	
			0.00		W	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	BW V TI	[T1]	1.23847	695 MHz	
-10			\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			4	\~\\	. [11]	2.44038		
			/				V _T	Lo[T1]	-21	.19 dBm	
-20		У	<u>/</u>				•	V -	2.44162	826 GHz	
-30											1M
-40	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~~									
-50	₩./								har	mound	
-60											
-70											
-80											
-90 Center 2	441 00	[_ _		300	kHz/				222	n 3 MHz	

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DPSK											
Product:		Portable '	Wireless S	peaker		T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage	;	DC	3.7V	
Temperature		2	4 deg. C,]	Humidity		56%	% RH	
Test Result:			Pass				Detector		PK		
20dB Bandwidth		1.	.238MHz								
Ŕ	Marker 1 [T1 ndB]				R	BW	30 k	Hz Rl	7 Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 k				
10 dBm		BW 1	1.238476	95 MHz	S'	TW	8.5 m	s Uı	nit	dBm	ı
10							v ₁	[T1]	-2	.49 dBm	A
				-					2.48000	301 GHz	
0				^ ^ \	Λ Λ		ndE	3	20	.00 dB	
				[/\/ \/	W		BW ▼ _{Tj}	[T1]	1.23847	695 MHz	
-10			\wedge	~~		V			2.47938		ĺ
			/				$\nabla \int_{\mathbb{T}}$	[T1]	-22	.29 dBm	
-20 1MAX		7	/					<u> </u>	2.48062	826 GHz	1M2
2.0											
-30											
-40		M							\bigvee		
-50	M								hu	mayer	
-60											
-70											
-80											
-90	2 40 611			300	lette /				G	. NII-	
Center				300	kHz/				spa	ın 3 MHz	
Date: 4	.AUG.20	23 14:	14:04								

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10.0 FCC ID Label

FCC ID: 2AZBO-N00023

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:



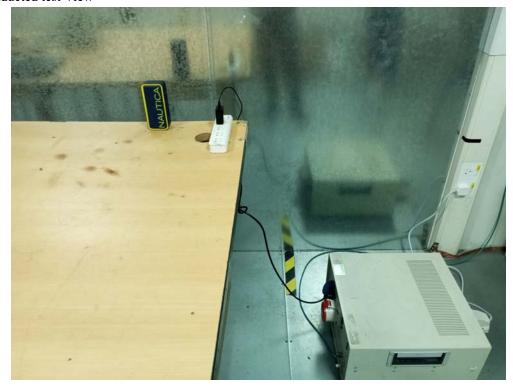
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11.0 Photo of testing

11.1 Conducted test View



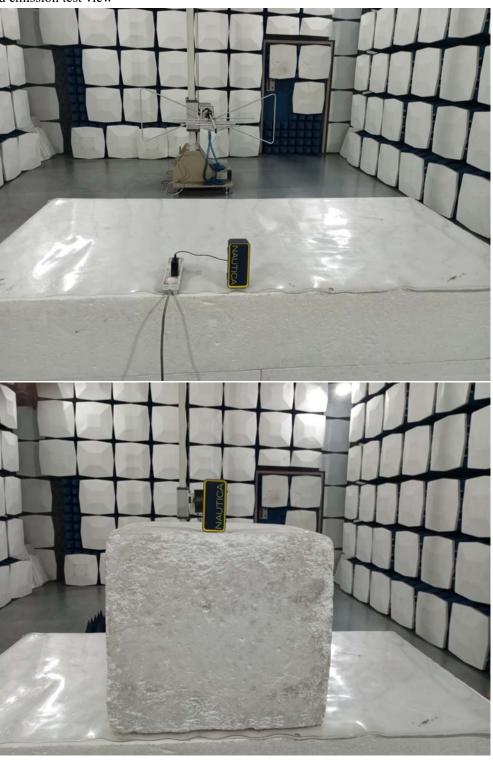
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Radiated emission test view



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

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11.2 Photographs – EUT

Outside View



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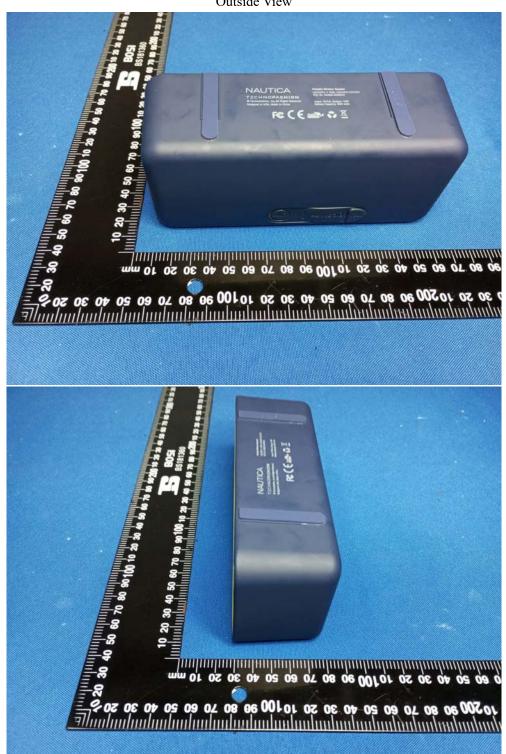
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Outside View



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Outside View



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Inside View



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Inside View





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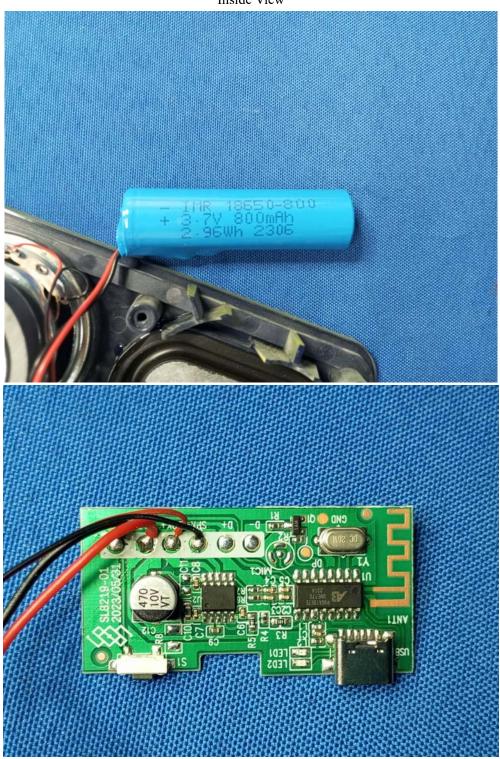
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Inside View

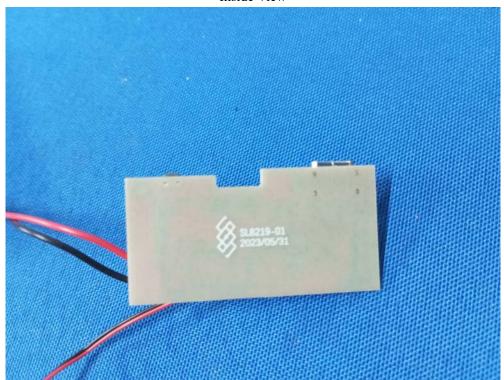


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Inside View



-- End of the report--