

Report No.:	TW2307383E
Applicant:	TECHNOFASHION INC.
Product:	Portable Wireless Speaker
Model No.:	UCCSP04, UCCSP04-1, UCCSP04-2, UCCSP04-3, UCCSP04-4
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	
Terry Jong	

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



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, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File With the Federal Communications Commission – United SatesRegistration Number: 744189For 3m Ane-Vic 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

Portable Wireless Speaker
TECHNOFASHION INC.
127, Kingsland Ave, Clifton, NJ, USA, 07014
N/A
UCCSP04
UCCSP04-1, UCCSP04-2, UCCSP04-3, UCCSP04-4
Input: DC5V, 1A, Output: 10W
DC3.7V, 500mAh Li-ion battery
GFSK, Л/4DQPSK, 8DPSK for Bluetooth
2402-2480MHz
79
1MHz
SL8158-00L
SL8158(NAUTICA SP400)_OSC28_改 EQ 和提示音
_VUSBUART_5377A2_59EE7D62_230612
UCCSP04202305
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

Andy - Xing

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	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		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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The EUT has been tested according to the following specifications:

3.0 Technical Details

3.1 Summary of test results

The EOT has been tested according to th			
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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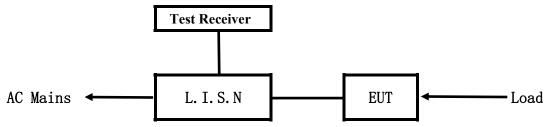
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

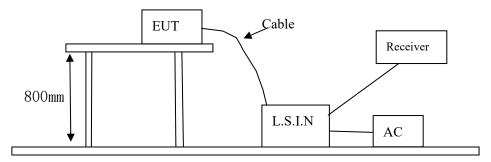


EUT: Equipment Under Test

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
11.	LUI

Device	Manufacturer	Model	FCC ID
Portable Wireless Speaker	TECHNOFASHION INC.	UCCSP04, UCCSP04-1, UCCSP04-2, UCCSP04-3, UCCSP04-4	2AZBO-N00024

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B. Internal Device

2.				
	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

	0 0 1	
Frequency	Limits (d	lΒ μ V)
(MHz)	Quasi-peak Level	Average Level
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*
$0.50~\sim~5.00$	56.0	46.0
$5.00~\sim~30.00$	60.0	50.0

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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Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Humidity: 65%RH Atmospheric Pressure: 101 kPa Temperature: 25°C EUT set Condition: Charging + Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B_QP 60 FCC Part 5 CE-Class B_AVe 50 40 30 20 10 neak AVG 0 -10 -20 (MHz) 0.150 30.000 Frequency Reading Factor Level Limit Margin P/F No. Detector (MHz) (dBuV) (dB) (dBuV) (dB) (dBuV) 1 0.2170 -37.09 Ρ 16.09 9.75 25.84 62.93 QP 2 9.75 52.89 -43.03 Ρ 0.2180 0.11 9.86 AVG 3 Ρ 0.2480 -1.64 9.75 8.11 51.82 -43.71 AVG 4 0.2490 13.10 9.75 22.85 61.79 QP Ρ -38.94 5 0.5910 12.48 Ρ 2.71 9.77 56.00 -43.52 QP Ρ 6 0.5910 -3.45 9.77 6.32 46.00 -39.68 AVG 7 Ρ 2.0640 4.30 9.80 14.10 56.00 -41.90 QP 8 2.0740 -10.70 9.80 -0.90 -46.90 AVG Ρ 46.00 9 Ρ 18.0960 4.26 10.57 14.83 60.00 -45.17 QP 10 18.0970 -2.74 10.57 7.83 50.00 -42.17 AVG Ρ

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Charging + Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B_QP 60 FCC Part 5 CE-Class B_AVe 50 40 30 20 peak 10 AVG 0 -10 -20 (MHz) 0.150 30.000 Reading Frequency Factor Level Limit Margin P/F No. Detector (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 1 0.1550 30.28 9.78 40.06 65.73 -25.67 QP Ρ 2 9.78 Ρ 0.1550 4.23 14.01 55.73 -41.72 AVG 0.2660 3 -2.139.75 7.62 51.24 -43.62 AVG Ρ 9.75 29.78 Ρ 4 0.2680 20.03 61.18 -31.40 QP 5 0.9410 6.61 9.79 16.40 56.00 -39.60 QP Ρ 6 0.9410 -9.77 9.79 -45.98 AVG Ρ 0.02 46.00 7 Р 3.92 9.80 13.72 -42.28 QP 1.6340 56.00 0.49 8 1.6430 -9.31 9.80 46.00 -45.51 AVG Ρ 17.55 9 12.0229 7.30 10.25 -32.45 AVG Ρ 50.00 10 12.0260 9.73 10.25 19.98 60.00 -40.02 QP Ρ

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6 Radiated Emission Test

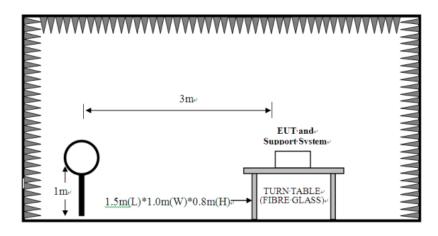
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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
Above IGHZ	Peak	1MHz	10Hz	Average

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

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

For radiated emissions from 9kHz to 30MHz

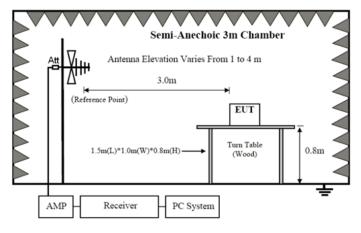


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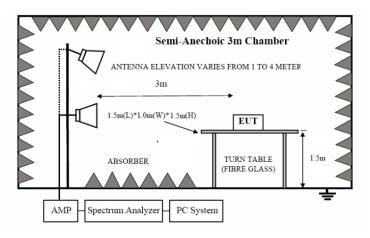
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



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

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

A rectart 15 Subp		agraph 13.247(a) Ellint		
Fundamental Frequency	Field Stre	ength of Fundamental (3m)	Field S	trength of Harmonics (3m)
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m

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

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2	2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
Note:	1. RF Field Streng	gth (dBuV)	= 20 log RF Volt	age (uV)			

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

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

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 $20\log(24000/F(kHz)) + 40\log(30/3)$ 3 1.705-30 69.5 30-80 3 40.0 88-216 3 43. 216-960 3 46.0 Above 960 3 54.0

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

Note:

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

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

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

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

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

6. 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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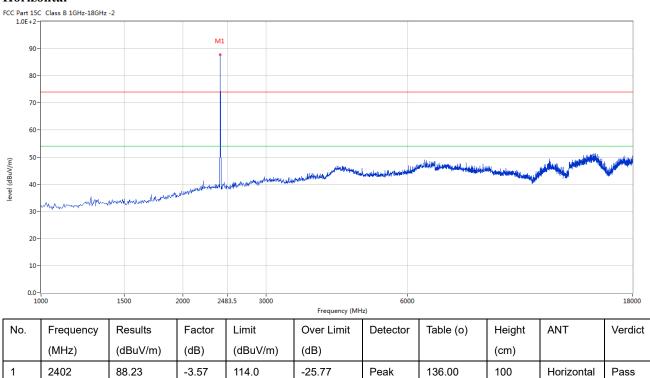
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal



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2402

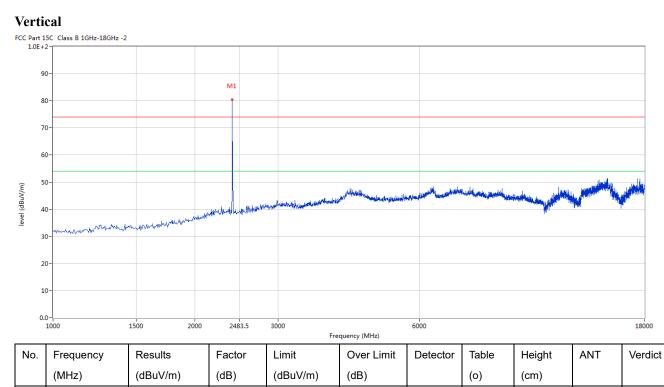
1

80.31

-3.57

114.0





-33.69

165.00

100

Vertical

Pass

Peak

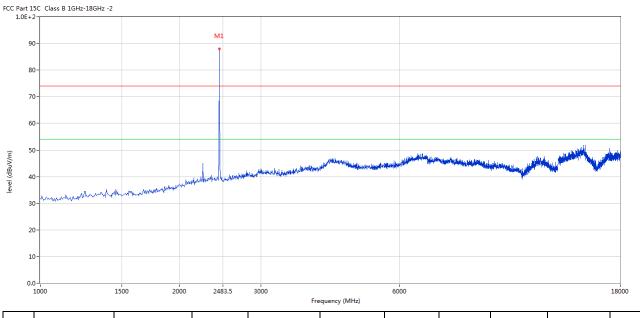
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

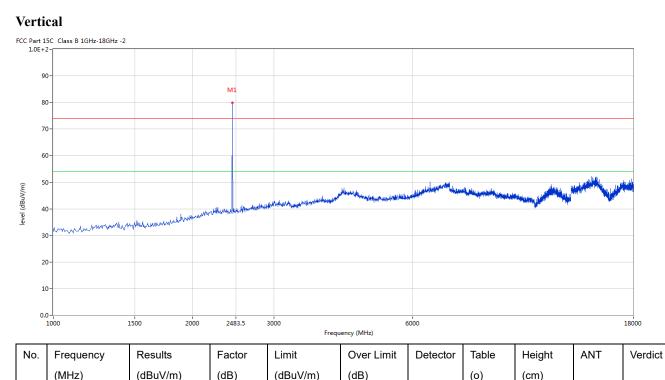


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	87.85	-3.57	114.0	-26.15	Peak	132.00	100	Horizontal	Pass

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145.00

100

Vertical

Pass

Peak

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

79.83

-3.57

114.0

-34.17

2441

1

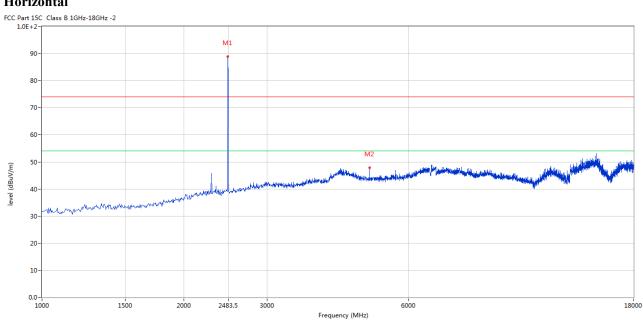
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

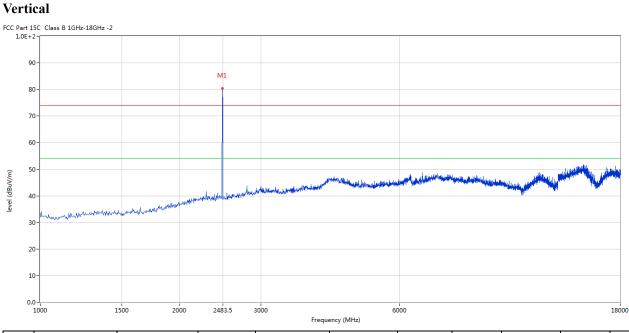


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	89.10	-3.57	114.0	-24.90	Peak	158.00	100	Horizontal	Pass
2	4960.010	47.90	3.36	74.0	-26.10	Peak	52.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	80.39	-3.57	114.0	-33.61	Peak	52.00	100	Vertical	Pass

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

(2) Margin=Emission-Limits

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

(4) For test purpose, keep EUT continuous transmitting

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

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

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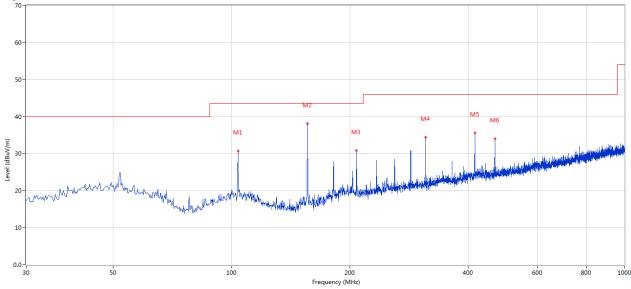
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	103.944	30.69	-13.33	43.5	12.81	Peak	166.00	100	Horizontal	Pass
2	155.826	38.15	-16.65	43.5	5.35	Peak	0.00	100	Horizontal	Pass
3	207.951	30.80	-13.69	43.5	12.70	Peak	348.00	100	Horizontal	Pass
4	311.957	34.38	-10.76	46.0	11.62	Peak	86.00	100	Horizontal	Pass
5	415.964	35.56	-8.34	46.0	10.44	Peak	94.00	100	Horizontal	Pass
6	467.846	33.98	-7.61	46.0	12.02	Peak	264.00	100	Horizontal	Pass

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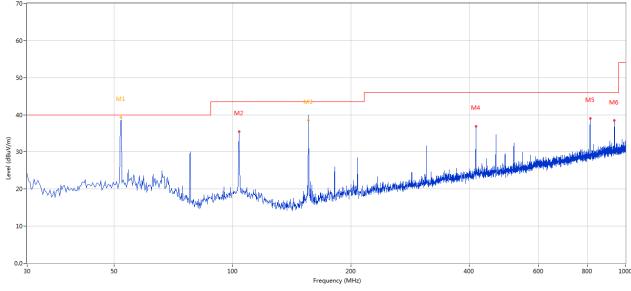
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1*	52.000	39.34	-11.43	40.0	0.66	QP	333.00	198	Vertical	Pass
2	103.944	35.50	-13.33	43.5	8.00	Peak	188.00	100	Vertical	Pass
3*	155.996	38.53	-16.65	43.5	4.97	QP	218.00	100	Vertical	Pass
4	415.964	36.89	-8.34	46.0	9.11	Peak	18.00	100	Vertical	Pass
5	812.594	39.04	-2.94	46.0	6.96	Peak	279.00	100	Vertical	Pass
6	937.451	38.44	-1.78	46.0	7.56	Peak	305.00	100	Vertical	Pass

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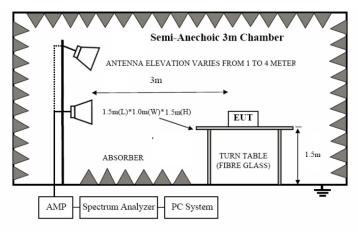


7. Band Edge

7.1 Test Method and test Procedure:

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

7.2 Radiated Test Setup



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

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

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7.6 Test Result

	Product:	Por	rtable Wire	eless Speaker		Polar	ity		Horizontal	
	Mode	ŀ	Keeping Tr	ansmitting		Test Vo	ltage		DC3.7V	
Te	mperature		24 de	g. C,		Humic	lity		56% RH	
Τe	est Result:		Pa	SS						
	Part 15C Class B 1GHz-18 1.0E+2- 90- 80- 70- 60-	IGHz -2							M1	
level (dBuV/m)	50 - 40 - 30 - 20 -	gheal faceble and a second	inderford for some of the source of the sour	utuda wa Wankana angalan /kanakan	พิษณฑ เของนับเป็นที่มีก็เป็นปู่สุดกับคุณส	N tan the provide mark of	13 แหล่างให้เราะสินใหญ่และไ	the rold fragmand		niing yn burt.
level (dBuV/m)	40- 30-	Results	Factor	Limit	Frequency (MHz)	N Detector	13 Standard Standard Stand	Height	ANT	2410
	40				Frequency (MHz)	inn ly lyr yw Hennedd	un en		ANT	1
٩.	40- 30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)	inn ly lyr yw Hennedd	Table	Height	ANT	1
_ ۱	40- 30- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdi
	40- 30- 20- 10- 2350 Frequency (MHz) 2401.842	Results (dBuV/m) 87.74	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 13.74	Detector Peak	Table (o) 144.00	Height (cm) 100	Horizontal	Verdio N/A

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	Product:	Po	rtable Wire	eless Speaker		Detect	or		Vertical	
	Mode]	Keeping Ti	ransmitting		Test Vol	tage		DC3.7V	
Te	emperature		24 de	eg. C,		Humid	ity		56% RH	
Te	est Result:		Pa	ISS						
	rt 15C Class B 1GHz-18GH E+2-r	Hz -2								
1.0										
	90-								M1	
	80-								M	
	70-							/		
	60-								h h	
Ê	50-							JM2		
5								M		
(dBuV/	40-					13		/ •	_	
level (dBuV/m)	ensatetitedebendert beruch filmen	รูปขางรองรู้ไปเป็นที่ไปข่างสรามีขณะไปการสามารีเป็นชาต่างรูงแล	halanı handırla yürkiye kalayı sırangı	washspipina-biredave.or.slivelji			kerintettetteristerisetteris	han silitanin ji kan	Å.	her an
level (dBuV/	40- /************************************	કુરેમ્યુકનાટું કેટ્સેટ્સ્ટ્રેન્ડ્રિટ્સ્ટ્રેન્ડ્રિટ્સ્ટ્રેન્ડ્સ્ટ્રેટ્સ્ટ્રેટ્સ્ટ્રિટ્સ્ટ્રેન્ડ્સ્ટ્રેસ્ટ્સ્ટ્રે	hilonihikashi kati kati kati kati kati kati kati kat	neachsipierna-berndestera-cilisaja			kernerisetisterreisetet der	innahista kin	Å.	lep-actualized
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level (dBuV/	20- 20-	યુમારનાં પુંચ્ચિત અને	hidon talana di Angel Ange	และเป็งที่มีขังของไข่เหลือสุข เหล่าให้มีขังของไข่เหลือสุข			heinesen en heinen h	in heliofic the		hip-polisikali da
level (dBuV/	30-	มูลิของผู้ได้หนึ่งไปมากับแม่งกรุณหรืออาจเหน	hidenskingdel geskingelsen og	eeshapana kenacaralaayi			kerenden ander versen ander derer	ten haller haller	<u></u>	*****
level (dBuV//	20- 20-	યુમારનાં પુંચ્ચિત પરંગ મેન્સ્ટ્રાન હાલ્ય સ્થાય છે. જે સાથે કે સાથે	yddaethiangdol gall fryslei byyleinwys 	และเป็าที่มีขังการประสาร 	de sie de ferner in gester in g		krieten alle fan skrieten de de fan	le o		
level (dBuV/	0.0- 2350	99496493664924492449244924492449244924492	989400000000000000000000000000000000000				Arieta Mathematica Addy Aries	landertikke		
NO.	30- 20- 10-	Results	Factor	Limit	de sie de ferner in gester in g		Table	Height	ANT	2410
	0.0- 2350				Frequency (MHz)	eleviti ne dotava jerov		Height (cm)		2410
	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)	eleviti ne dotava jerov	Table	-		2410
No.	0.0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdic
No.	30- 20- 10- 20- 20- 20- 10- 20- 20- 20- 10- 20- 20- 20- 10- 20- 20- 2350 Frequency (MHz) 2402.037 2402.037	Results (dBuV/m) 80.34	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 6.34	Detector Peak	Table (o) 149.00	(cm) 100	ANT Vertical	2410 Verdic

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	Product:	Р	ortable Wi	ireless Speak	ter	Р	olarity		Horizont	al	
	Mode		Keeping '	Transmitting		Tes	t Voltage		DC3.7\	Ι	
Te	emperature		24 0	deg. C,		Hı	umidity		56% RH		
Te	est Result:		I	Pass							
	rt 15C Class B 1GHz-18GH E+2-r	Hz -2									
1.0	E+2-			M1							
	90-		r	~							
	80-			<u> </u>							
	70-										
	60-		1	[™] N	12						
			-								
(u	50-		p ^r	Ì	An and a second s						
(dBuV/m)	اداس ا		p ^r	Ì	And a second second second	Million I	to set details				
level (dBuV/m)			p ^r	ĺ		Milling	opetories and the defense,	mettedenscherheitensensensteite	ะเสรียวระบบ มีระเป สีระหนีสะบรระกล่างที	haritha marily	
level (dBuV/m)	اداس ا		^y)		William .	. petros in the field state on a	n eter ber die de de men operatiek	nations, and the observed the observed	kenthamanan	
level (dBuV/m)			μ ^ν				,pitricial,ofid,ithera,	netisése philo-semespesentisés	natiophical brack for the second system	ใจงาร่งจะเม นได	
level (dBuV/m)	40- 44-44-44-44-44-44-44-44-44-44-44-44-44		^{µ^a}		and the second s	Hill Welling and some	opinacial dedition,	n ettelsenskale nämen som störke	n degen yn de fan de	kartakan karula	
level (dBuV/m)	40		W ⁴				, ye an a fair a fai	Netodiseginde etwagen generalise	n delegation of the second	keyttisansansa 	
level (dBuV/m)	40 - 1 40 - 		<i>μ</i> ⁴	248		<u> </u>	opi vacia k di k ikk ac	hotolisephininensessetek	u degen ut den de se de se		
	40	Results	Factor	1	33.5 Frequency (MHz) Over					250	
	40- 30- 20- 10- 2470 Frequency	Results (dBuV/m)	Factor	Limit	Frequency (MHz)	Detector	Table	Height	ANT	250	
No.	40- 30- 20- 10- .0 .2470 Frequency (MHz)	(dBuV/m)	(dB)	1	Frequency (MHz)		Table (o)	Height (cm)	ANT	2500 Verdic	
Ievel (dBuV/m)	40- 30- 20- 10- 2470 Frequency			Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table	Height		25 Verc	

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adopt any other remedies which may be appropriate.



	Product:	Poi	rtable Wire	eless Speaker		Detec	tor		Vertical	
	Mode	k	Keeping Tr	ansmitting		Test Vo	ltage	DC3.7V		
Te	mperature		24 de	g. C,		Humidity			56% RH	
Те	est Result:		Pa	SS						
	rt 15C Class B 1GHz-18GF DE+2- 90-	lz -2						•		
	80-									
level (dBuV/m)	50 - 40 - 30 - 20 -	ehiteaniteanaiseath <mark>h</mark> h		M2	han an a	adarranda dassanda da bara	sooning a right and fee	onnensisilaateellesereelle	her Hernelsen in der State der	yybnyw syltistekk
level (dBuV/m)	40- 	ühttensitet paraminentalijitet	<i>y</i>	2483.		aykonski duondi i tijskee	9994997957957957959599499	errensisterreten en e	leg för såtas hans sådatand	
level (dbuV/m)	40- 40- 40- 40- 40- 40- 40- 40-	Results	Factor	Limit	5 Frequency (MHz)	Detector	Table	Height	ANT	2500
	40		Factor (dB)		5 Frequency (MHz)			1		2500 Verdic
	40- 40- 40- 40- 40- 40- 40- 40-	Results		Limit	5 Frequency (MHz)		Table	Height		2500

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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FSK										
Product:	Portable	e Wireless	Speaker		Т	Test Mode:		Keep transmitting		
Mode	Keep	ing Transmitting				est Voltage		DC3	.7V	
Temperature		24 deg. C,			ł	Humidity	56% RH			
Test Result:		Pass				Detector		P	K	
20dB Bandwidth		889.78kHz						-		
Ref Lvl	ndB		.00 dB	VI	ЗW ЗW	30 k 100 k	Hz	F Att	20 dB	
10 dBm 10	BW 88	9.779559	912 kHz	SI	NT.	8.5 m	s U	nit	dB	m
						▼1	[T1]	- 1	.07 dB	n 2
0								2.40200		z
			\sim	N M		ndE BW		20 9.77955	.00 dB 912 kH:	
-10						∇_{T1}	[T1]	-21		- n
-10		<u>^</u>	N		\mathcal{I}	1		2.40154	609 GH:	z
		тд				$\sqrt{\frac{12}{T^2}}$	[T1]	-20	.81 dB	n
-20		م م				- V		2.40243	587 GH:	11
- 30	<i>س</i> م	<u>,</u>				ų	~\			
-40	m							My		
-60										
-70										
-80										
-90										
Center 2.40)2 GHz		300	kHz/				Spa	an 3 MH:	z

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GFSK											
Product:]	Portable V	Wireless S	peaker	1	Test Mode:		Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting	Т	Test Voltage		DC3.7V			
Temperature		24	4 deg. C,			Humidity		56% RH			
Test Result:			Pass			Detector]	PK		
20dB Bandwidth	889.78kHz										
Real Contractions of the second secon	Marker 1 [T1 ndB]			RBW	30 kl	Hz RI	F Att	20 dB			
Ref Lvl		ndB		.00 dB	VBW	100 ki			_		
10 dBm]	BW 889	.779559	912 kHz	SWT	8.5 m;	s Ur	nit	dBn	1	
10						▼1	[T1]	-1	.34 dBm	A	
0						ndB		2.44100	301 GHz .00 dB		
				$\wedge \gamma$	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	BW	88	9.77955	912 kHz		
-10					\sim	$\nabla_{\mathrm{T}1}$	[T1]	-21	.15 dBm		
			\wedge	\sim	$ $ \backslash	\wedge		2.44054	609 GHz		
-20			TA			$\left \left\langle \mathbf{T}^{2} \mathbf{\nabla}^{\mathbf{T}} \right\rangle \right $	[T1]	-21	.00 dBm		
1MAX			میں سر			- V		2.44143	587 GHz	1MA	
-30		كر	/			<u> </u>	\sim				
-40							<u> </u>				
	m	hand						M L			
-50									www.w		
-60											
-70											
-80											
-90											
Center 2	Center 2.441 GHz 300							Spa	an 3 MHz		

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Product:		Portable '	Wireless S	peaker		Т	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Test Voltage		:	DC3.7V		
Temperature		2	4 deg. C,			I	Humidity		569	% RH	
Test Result:			Pass			Detector]	PK	
0dB Bandwidth		88	39.78kHz								
R	Marker 1 [T1 ndB]				R	BW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB	20.	.00 dB	v	BW	100 k	Hz			
10 dBm		BW 889	0.779559	912 kHz	S	WT	8.5 m	s U	nit	dBn	n
10							▼1	[T1]	-2	.50 dBm	A
0				-					2.48000	301 GHz	
0							ndB		20	0.00 dB	
1.0					\bigvee	١ ا	BW ▼ _T 1	оч . [Т1]	9.77955 22-	912 kHz .20 dBm	
-10			~	\mathbb{N}					2.47954	609 GHz	
			T1			Y		[T1]	-22	.29 dBm	
-20							V.		2.48043	587 GHz	1MA
-30			/					\sim			
-40	~	~							M		
-50	~~ ⁽								- Jun	mul	
-60											
-70											
- 80											
-90 Center 2					kHz/				Spa	an 3 MHz	J
Center 2	.48 GH:	Z		300	kHz/				Spa	an 3 MHz	i

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Product:		Portable	Wireless S	Speaker		Τ	est Mode:		Keep tran	smitti	ng	
Mode		Keepii	ng Transm	itting		Test Voltage			DC3.7V			
Temperature			24 deg. C,				Humidity	56% RH				
Test Result:		Pass					Detector		PF	Κ		
0dB Bandwidth		1	.275MHz									
`	M	larker	1 [T1 n	ldB]	RI	ЗW	30 ki	Hz R	F Att	20	dB	
Ref Lvl	n	ıdB	20.	00 dB	VI	ЗW	100 k	Hz				
10 dBm	В	3W 1	.274549	10 MHz	SI	νT	8.5 m	s U:	nit		dBm	
10							<pre> • 1</pre>	[T1]	-1	.07	dBm	А
]	L				2.40200	301		-
0				$\wedge \wedge /$	Λ		ndB		20		dB	
			\sim		\bigcup \checkmark	~~		[T1]	1.27454		MHz dBm	
-10			_~~`	V		~			2.40135		GHz	
			\checkmark					L [T1]	-21	.05		
-20								<u>v</u>	2.40263	427	GHz	
-30											1	11
	0											
-40	~~~~	\checkmark						W	\sim			
-50										urm	- m	
-60												
-70												
-80												
-90 Center 2				200	노대 <i>구</i> /				922	n ?	MHr	
-90 Center 2.	402 GHz	Z		300	kHz/				Spa	.n 3	MHz	

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Л/ 4DQPSK Product:		Portable Wireless Speaker Test Mode:						Keep transmitting			
Mode								_	-		
			g Transmi	ung		Test Voltag		DC3.7V			
Temperature Test Result:		2	4 deg. C,			Humidity		56% RH PK			
	Pass					Detector					
20dB Bandwidth	1.275MHz										
	Marker 1 [T1 ndB]			RB			F Att	20 dB			
Ref Lvl 10 dBm		ndB	20. 1.274549	00 dB	VB			nit	dBm		
10 aBm		BW	1.2/4549	IU MHZ	SW				aBu		
						▼1	[T1]	- 1	l.39 dBm	A	
0				3				2.44100	301 GHz		
0				ΛΛ	Λ	nd	B	20	0.00 dB		
					\mathcal{V}^{χ}			1.27454	910 MHz .44 dBm		
-10				√~				2.44035			
			\sim			, v ⊥	2, [T1]	-21	.38 dBm		
-20							Y	2.44163	427 GHz		
-30										1MA	
- 30		. /									
-40							- Wh	\sim			
-50								Lun	human		
-60											
-70											
- 80											
-90											
Center 2	.441 GH	Hz		300	kHz/			Spa	an 3 MHz		

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Product:		Portable	Wireless S	peaker		Test Mode:		Keep transmitting		
Mode		Keepin	g Transmi	tting		Test Voltage	;	DC3.7V 56% RH		
Temperature		2	4 deg. C,			Humidity				
Test Result:	Pass					Detector]	PK	
dB Bandwidth		1	.275MHz							
		Marker	1 [T1 n	ndB]	RBV	1 30 k	Hz Rl	F Att	20 dB	
Ref Lvl 10 dBm		ndB BW :	20. 1.274549	00 dB 10 MHz	VBV SW1			nit	dBm	ı
10						v 1	[T1]	-2	.58 dBm 301 GHz	A
0				\mathcal{M}		ndB BW ⊷∕ (∇ _T]) [T1]	20 1.27454 -22	.00 dB 910 MHz .68 dBm	
-10		m 3		V	V V		2 [T1]	2.47935	972 GHz	
-20 1MAX -30		<i></i>					T I	2.48063	427 GHz	1M2
-40		. /								
-50	\sim	\bigvee					how	\mathcal{N}		
within	~~W							him	v	
-60										
-70										
-80										
-90 Center 2	.48 GHz	2		300	kHz/			Spa	an 3 MHz	

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8DPSK							
Product:	Portable Wireless S	Speaker	Test Mode:	Keep trai	nsmitting		
Mode	Keeping Transm	itting	Test Voltage	DC3	3.7V		
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:	Pass		Detector	P	K		
20dB Bandwidth	1.244MHz			-	-		
	Marker 1 [T1 n		BW 30 kH		20 dB		
Ref Lvl 10 dBm	ndB 20. BW 1.244488		3W 100 kH NT 8.5 ms		dBm		
10			▼1	[T1] -: 2.40199	1.12 dBm A		
0			ndB	2.40193	0.00 dB		
	0.00		BW	[T1] -2			
-10					1.12 авш 3978 GHz		
	TZ			_2 ^[T1] -2	1.34 dBm		
-20				2.40263	3427 GHz 1MA		
- 30							
-40	AM			M			
-50					Jum		
-60							
-70							
- 80							
-90 Center 2.4	402 GHz	300 kHz/		aaa	an 3 MHz		
	UG.2023 14:10:26						

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DPSK							- 1				
Product:		Portable	Wireless S	peaker	-	Fest Mode:		Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting	Г	Test Voltage Humidity		DC3.7V 56% RH			
Temperature		2	4 deg. C,								
Test Result:	Pass				Detector			PK			
20dB Bandwidth		1.	.244MHz								
	Marker 1 [T1 ndB]				RBW	30 kH	Iz RI	F Att	20 dB		
Ref Lvl		ndB	20.	00 dB	VBW	100 kH	Iz				
10 dBm		BW 1	L.244488	98 MHz	SWT	8.5 ms	s Ur	nit	dBm	ı	
10						V 1	[T1]	- 1	.35 dBm	2	
				-				2.44099	699 GHz	A	
0				ο Λ /	1 1	ndB		20	.00 dB		
					W/	BW V-	5	1.24448	898 MHz		
-10			$\gamma \gamma $	<u>~</u>	V		[T1]	2.44038	<u>.63 dBm</u> 978 GHz		
			/				_[T1]	-21	.44 dBm		
-20		<u>т</u> У	<u>/</u>			t	2	2.44163	427 GHz		
-30										1MA	
-40	\mathcal{A}	m					M	\sim			
-50									manne		
-60											
-70											
-80											
-90											
Center 2	300	kHz/			Spa	n 3 MHz					

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DPSK		D 11				T .) (1		T7	••	
Product:		Portable Wireless Speaker Keeping Transmitting 24 deg. C,				Test Mode		Keep transmitting DC3.7V 56% RH		
Mode						Test Voltag				
Temperature						Humidity				
Test Result:	Pass 1.238MHz					Detector		РК		
0dB Bandwidth										
R R R R R R R R R R R R R R R R R R R		Marker	1 [T1 r	ndB]	RB	SW 30	kHz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	VB					
10 dBm 10		BW	1.238476	95 MHz	SW	T 8.5	ms U	nit	dBm	1
10						▼1	[T1]	-2	.51 dBm	A
								2.48000	301 GHz	
0						nc		20	.00 dB	
					W	BW V		1.23847	695 MHz .49 dBm	
-10			\wedge	~~				2.47938	978 GHz	
			/				2 [T1]	-22	.41 dBm	
-20		T	/				V V	2.48062	826 GHz	1MA
IMAX		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								IMA
-30							+			
-40	\wedge	wa						M		
-50	w v							tim	hondre	
••									~~~~	
-60										
-70										
- 80										
-90										
Center 2	.48 GH	Z		300	kHz/			Spa	an 3 MHz	

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10.0 FCC ID Label

FCC ID: 2AZBO-N00024

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:



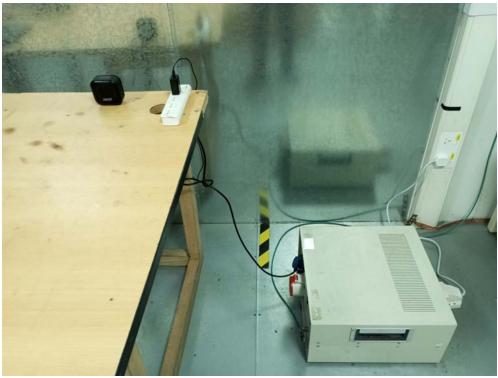
The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



11.0 Photo of testing

11.1 Conducted test View

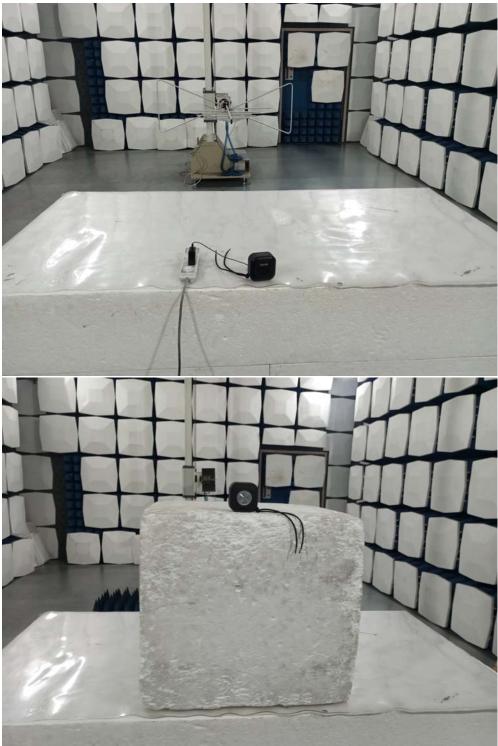


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Page 40 of 49

Radiated emission test view



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11.2 Photographs – EUT



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Outside View

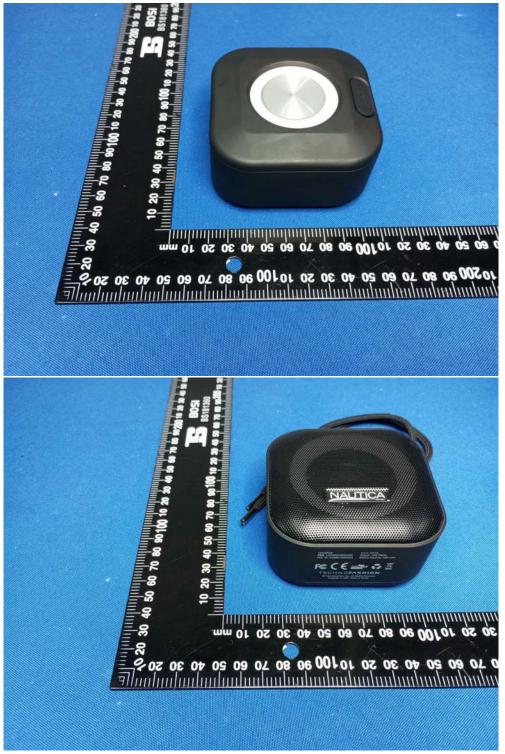


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Outside View



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Outside View



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Outside View



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Inside View



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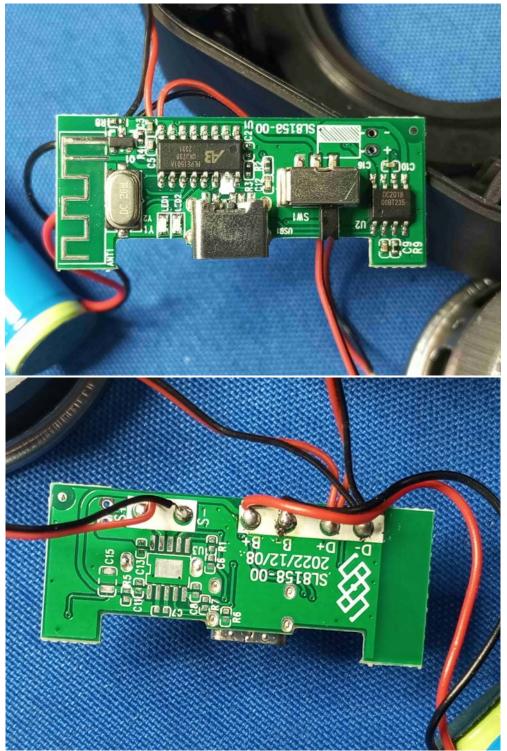
Inside View



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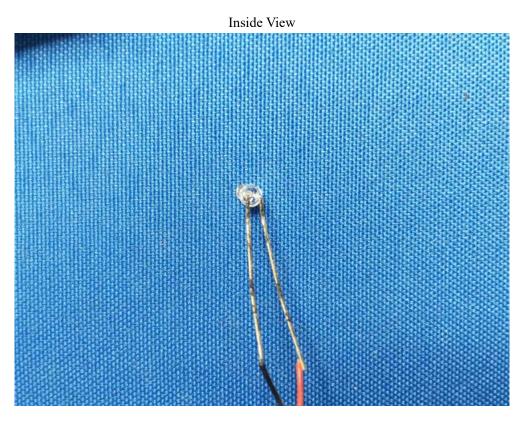


Inside View



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--End of the report--

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