

Report No.: TW2309005E

Applicant: TITAN INC.

Product: SPEAKER BOX/Parlante

Model No.: MS-P112B

Trademark: monki°

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

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

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: September 22, 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:

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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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: TITAN INC.

Address: 3530 Nw 115 Ave, Miami, Florida 33178, United States

Telephone: 786-618-8393 Fax: 305-320-3198

1.3 Description of EUT

Product: SPEAKER BOX/Parlante
Manufacturer: MAXTRONIX CO., LTD.

Address: NO.12, HEXIANG ROAD, WUJIN ECONOMIC DEVELOPMENT ZONE,

CHANGZHOU, JIANGSU, CHINA

Trademark:

Model Number: MS-P112B

Additional Model Name N/A

Rating: Input:100-220V~, 50/60Hz, 1.2A or Built-In DC12V/7Ah Lead-Acid Battery

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

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz

Hardware Version: MSP112B-V1.1 Software Version: MSP112B-V1.1

Serial No.: MSXXXXX20231205115B

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

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2023-09-01 to 2023-09-22

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		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

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

3.2 **Test Standards**

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

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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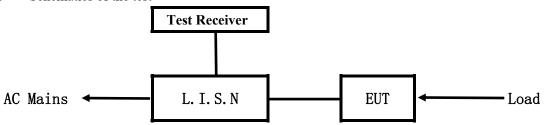
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

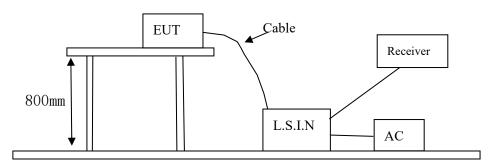


EUT: Equipment Under Test

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	Device Manufacturer		FCC ID
SPEAKER BOX/Parlante	MAXTRONIX CO., LTD.	MS-P112B	2A6R4-MS-P112B

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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 (d	IB μV)
(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)

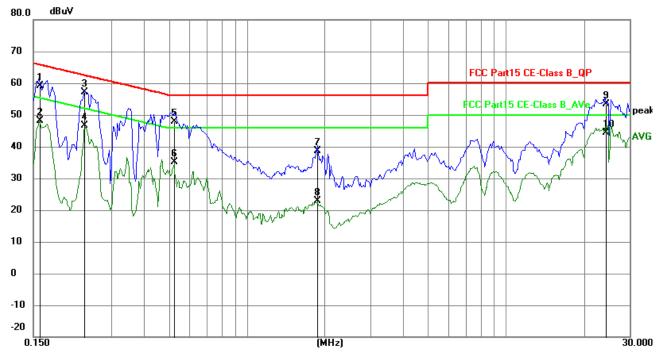
EUT Operating Environment

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

EUT set Condition: 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	0.1582	49.36	9.78	59.14	65.56	-6.42	QP	Р
2	0.1582	38.46	9.78	48.24	55.56	-7.32	AVG	Р
3	0.2358	47.33	9.75	57.08	62.24	-5.16	QP	Р
4	0.2358	36.92	9.75	46.67	52.24	-5.57	AVG	Р
5	0.5243	38.00	9.77	47.77	56.00	-8.23	QP	Р
6	0.5243	25.41	9.77	35.18	46.00	-10.82	AVG	Р
7	1.8738	28.71	9.80	38.51	56.00	-17.49	QP	Р
8	1.8738	13.04	9.80	22.84	46.00	-23.16	AVG	Р
9	24.2238	42.51	10.94	53.45	60.00	-6.55	Q Q	Р
10	24.2238	33.37	10.94	44.31	50.00	-5.69	AVG	Р

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

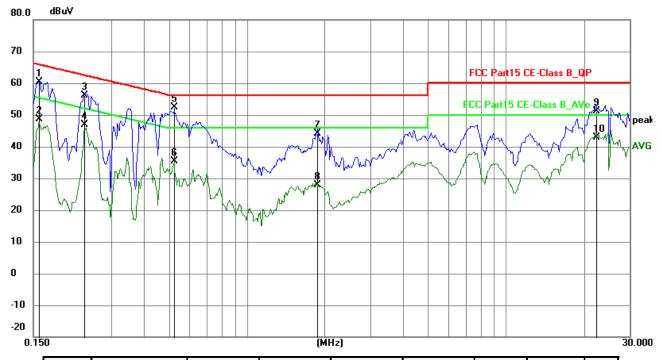
EUT Operating Environment

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

EUT set Condition: 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	0.1577	50.70	9.78	60.48	65.58	-5.10	QP	Р
2	0.1577	38.85	9.78	48.63	55.58	-6.95	AVG	Р
3	0.2358	46.46	9.75	56.21	62.24	-6.03	QP	Р
4	0.2358	37.03	9.75	46.78	52.24	-5.46	AVG	Р
5	0.5243	42.70	9.77	52.47	56.00	-3.53	QP	Р
6	0.5243	25.70	9.77	35.47	46.00	-10.53	AVG	Р
7	1.8779	34.33	9.80	44.13	56.00	-11.87	QP	Р
8	1.8779	18.14	9.80	27.94	46.00	-18.06	AVG	Р
9	22.1996	40.20	10.82	51.02	60.00	-8.98	QP	Р
10	22.1996	32.17	10.82	42.99	50.00	-7.01	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:

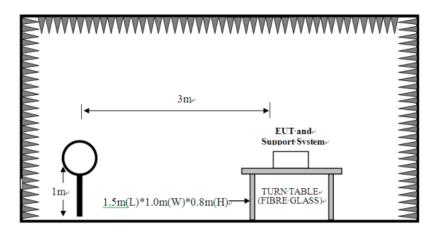
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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



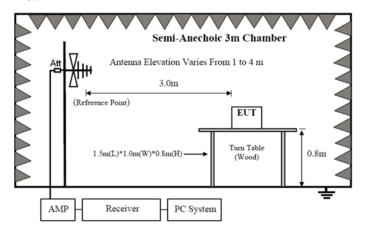
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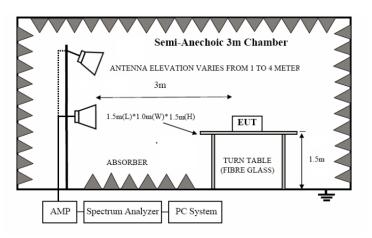
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For radiated emissions from 30MHz to1GHz



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)	ld 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)
Z 4 00-Z 4 03.3	50	MVClage)	11 4 (1 cak)	500	(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	43.5
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 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. EUT has alternative input modes: DC input and AC input. After pre-test, AC input is the worst case. In the test report, only the worst cases are recorded.

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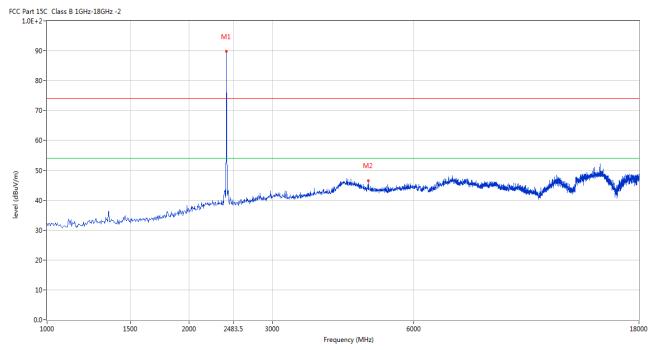


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



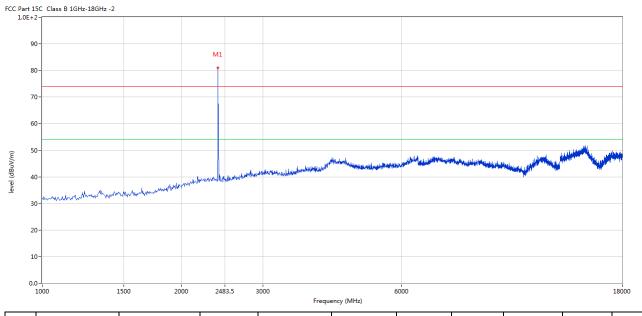
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	89.80	-3.57	114.0	-24.20	Peak	307.00	100	Horizontal	Pass
2	4802.799	46.59	3.12	74.0	-27.41	Peak	312.00	100	Horizontal	Pass

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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	81.05	-3.57	114.0	7.05	Peak	353.00	100	Vertical	Pass

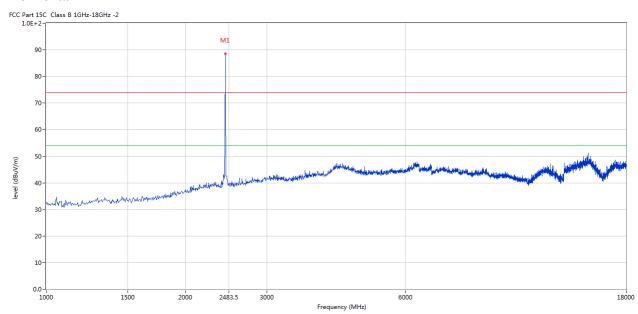
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



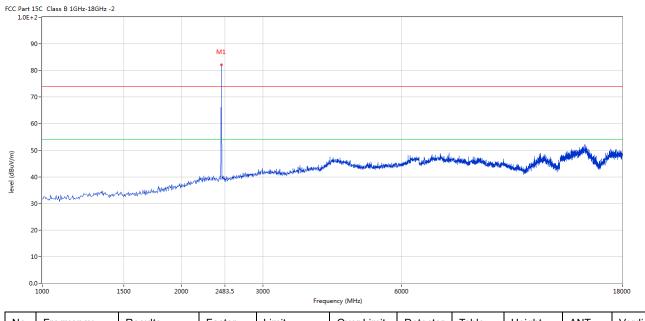
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	88.53	-3.57	114.0	-25.47	Peak	324.00	100	Horizontal	Pass

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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	82.02	-3.57	114.0	-31.98	Peak	347.00	100	Vertical	Pass

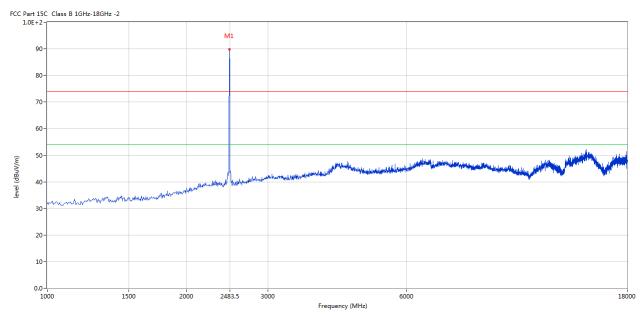
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No	. Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	89.91	-3.57	114.0	-24.09	Peak	326.00	100	Horizontal	Pass

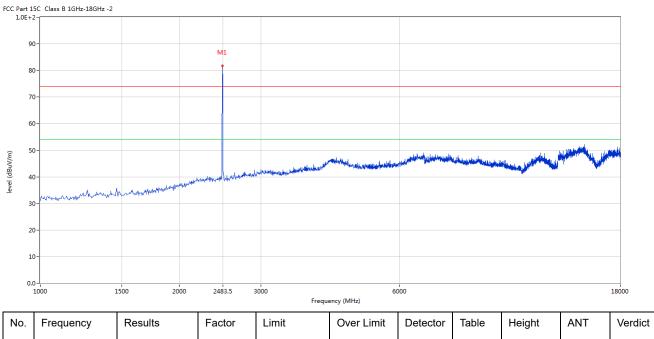
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	81.75	-3.57	114.0	-32.25	Peak	0.00	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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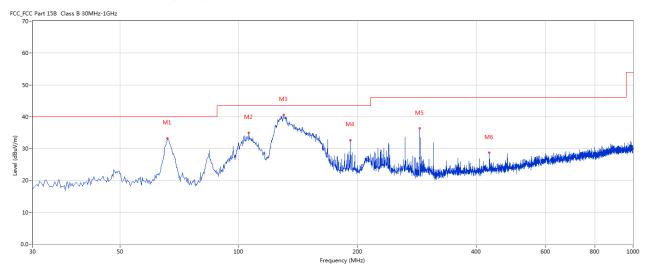


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	65.881	33.21	-13.87	40.0	6.79	Peak	299.00	100	Horizontal	Pass
2	105.884	34.91	-13.29	43.5	8.59	Peak	295.00	100	Horizontal	Pass
3	130.127	40.54	-16.77	43.5	2.96	Peak	307.00	100	Horizontal	Pass
4	191.950	32.69	-14.07	43.5	10.81	Peak	47.00	100	Horizontal	Pass
5	287.956	36.30	-11.27	46.0	9.70	Peak	67.00	100	Horizontal	Pass
6	431.965	28.70	-8.09	46.0	17.30	Peak	11.00	100	Horizontal	Pass

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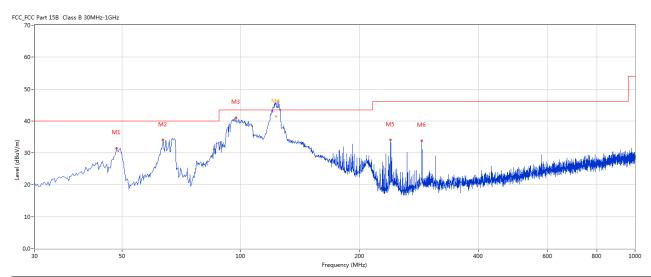


Radiated Emission In Vertical (30MHz----1000MHz)

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	48.425	31.50	-11.22	40.0	8.50	Peak	360.00	100	Vertical	Pass
2	63.457	34.08	-13.33	40.0	5.92	Peak	336.00	100	Vertical	Pass
3	97.156	40.96	-13.90	43.5	2.54	Peak	360.00	100	Vertical	Pass
4	122.854	46.72	-15.86	43.5	-3.22	Peak	345.00	100	Vertical	N/A
4*	122.854	41.47	-15.86	43.5	2.03	QP	345.00	100	Vertical	Pass
5	239.953	34.04	-12.33	46.0	11.96	Peak	360.00	100	Vertical	Pass
6	287.956	33.85	-11.27	46.0	12.15	Peak	336.00	100	Vertical	Pass

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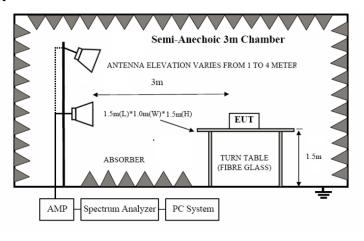
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7. Band Edge

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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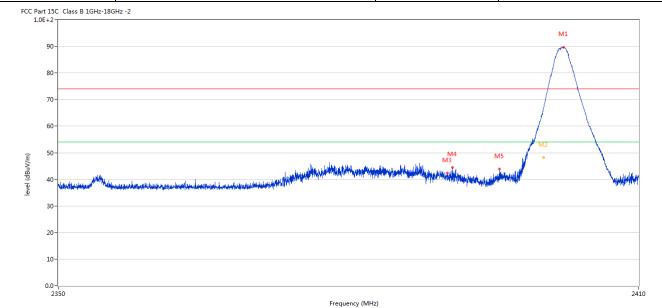
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7.6 Test Result

Product:	SPEAKER BOX/Parlante	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



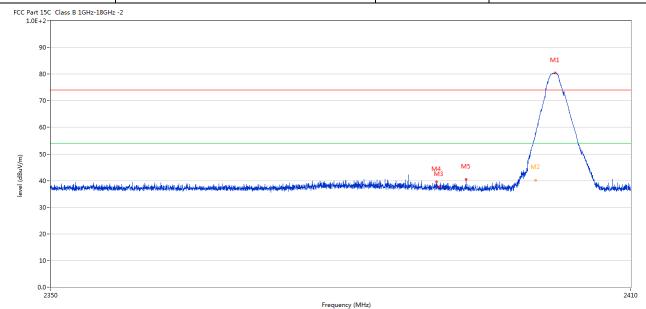
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.172	89.72	-3.57	74.0	15.72	Peak	309.00	100	Horizontal	N/A
2	2400.042	66.41	-3.57	74.0	-7.59	Peak	304.00	100	Horizontal	Pass
2**	2400.042	48.28	-3.57	54.0	-5.72	AV	304.00	100	Horizontal	Pass
3	2390.070	42.46	-3.53	74.0	-31.54	Peak	320.00	100	Horizontal	Pass
4	2390.565	44.54	-3.53	74.0	-29.46	Peak	304.00	100	Horizontal	Pass
5	2395.469	43.81	-3.55	74.0	-30.19	Peak	315.00	100	Horizontal	Pass

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Product:	SPEAKER BOX/Parlante	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	120V~
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	2402.112	80.42	-3.57	74.0	6.42	Peak	343.00	100	Vertical	N/A
2	2400.072	58.13	-3.57	74.0	-15.87	Peak	343.00	100	Vertical	Pass
2**	2400.072	40.09	-3.57	54.0	-13.91	AV	343.00	100	Vertical	Pass
3	2390.010	37.72	-3.53	74.0	-36.28	Peak	329.00	100	Vertical	Pass
4	2389.770	39.52	-3.53	74.0	-34.48	Peak	30.00	100	Vertical	Pass
5	2392.799	40.44	-3.54	74.0	-33.56	Peak	343.00	100	Vertical	Pass

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]	Product:	S	PEAKER	BOX/Parlan	te	P	olarity		Horizont	al	
	Mode		Keeping	Transmitting		Tes	t Voltage		120V~		
Te	emperature	erature 24 deg. C,				Humidity			56% RH		
Te	est Result:		F	Pass							
	rt 15C Class B 1GHz-18GI E+2-	Hz -2									
			М	11							
	90-										
	80-										
	70-										
			yd.	\ \							
	60-	<u></u>	مختطعتهم								
			National Property and Property	1							
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level (dBuV/m)	50- 40-	Carlo Maria de Para de Para de Carlo d		M	2 Andrew Links	and the state of t	siedziewiąca odbadziała w	and his desired and the second	dright folk die de land beginne de service	al Mingel Justines	
level (dBuV/m)	50- 40-	tank to Antaga and Antaga proper from		M	2	and the state of t	rakinikan kalaki	hill his should be no stand		L. L. Marie Labora	
level (dBuV/m)	50- 40- 30- 20-	and the later of t		M	2 Andrew Market State of the Control	and the second s	stakit urken dikakitak	and his of Lord After After A	dersiel, skried school en kenne en sen ook	Llfolding leading.	
level (dBuV/m)	30- 20-	and the state of t		M		interded to the Annie of the An	sindhirindheachtailea	and his desired the second	history of the standard tension in the standard and the s		
	30- 20- 10-	Results	Factor		3.5	Detector	Table	Height	ANT	250	
(ω/\ngp) level	30 - 20 - 10 - 2470		Factor (dB)	248	3.5 Frequency (MHz)					250 Verdi	

	No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
	1	2479.860	89.27	-3.57	74.0	15.27	Peak	204.00	100	Horizontal	N/A
	2	2483.500	55.43	-3.57	74.0	-18.57	Peak	264.57	100	Horizontal	Pass
	2**	2483.500	37.31	-3.57	54.0	-16.69	AV	264.57	100	Horizontal	Pass
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]	Product:	Product: SPEAKER BOX/Parlant			SPEAKER BOX/Parlante Detector			Vertical		
	Mode	F	Keeping Tr	ansmitting		Test Vo	ltage		120V~	
Te	mperature		24 de	g. C,		Humidity			56% RH	
Te	est Result:		Pa	SS						
	rt 15C Class B 1GHz-18GH	lz -2			•			•		
	90-		M1	And My						
l (dBuV/m)	50-	الدائم ومناوا والمائد المائد ا	M M	May 12	Mary Mary Mary Company of the Compan	المستندون والمستندون المستندون المست	والمارية وال	المرابعة الم	والمرابات والمرابع المرابع الم	
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level (dBuV/m)	30-	elisteeleikeksississississississi	***************************************	2483.		isal, na strovila kina siddamid	paids he pain en en est de la constant de la const	i jeus sant dicina.	ndikuren en elde stelen elder el	2500
No.	50- 40- 30- 20- 10-	Results	Factor	2483.	5	Detector	Table	Height	ANT	
	30 - 20 - 10 - 2470		Factor (dB)		5 Frequency (MHz)					2500
	30- 20- 10- 2470	Results		Limit	5 Frequency (MHz) Over Limit		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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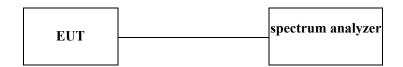
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9.0 20dB Bandwidth Measurement

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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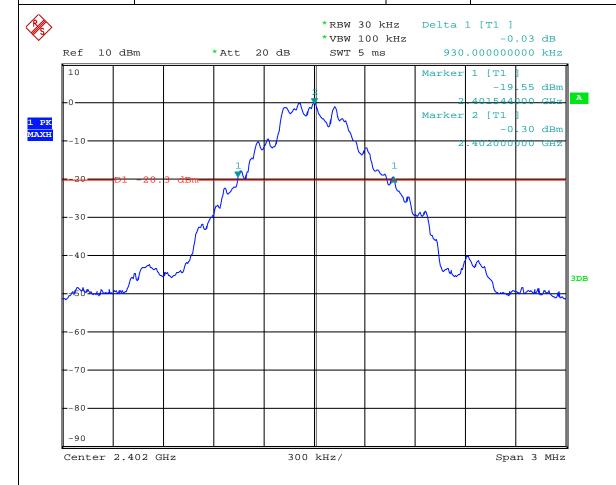
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Test Result

GFSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	930.00kHz		



Date: 19.SEP.2023 16:37:17

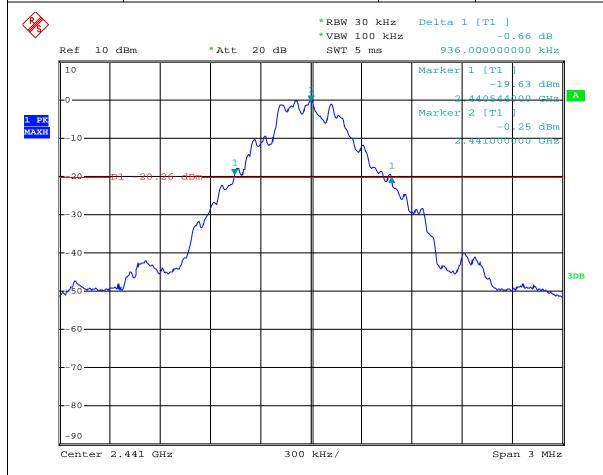
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GFSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	936.00kHz		



Date: 19.SEP.2023 16:36:25

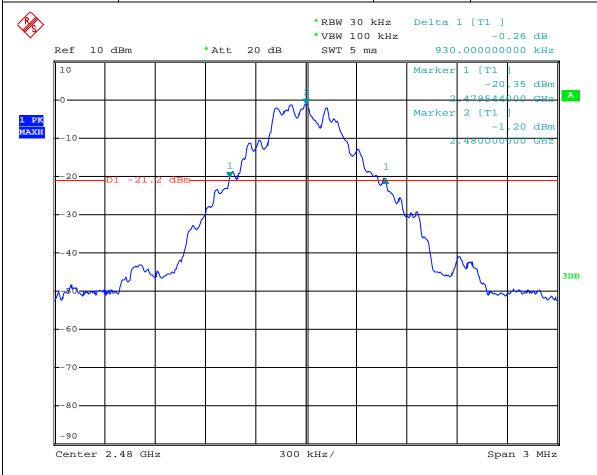
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GFSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	930.00kHz		



Date: 19.SEP.2023 16:38:09

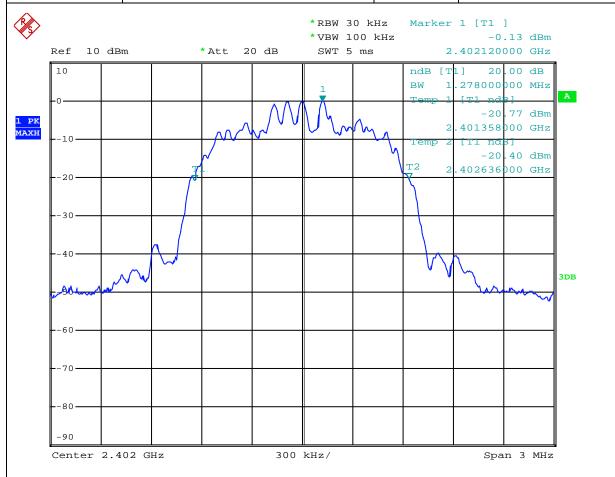
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Л/4DQPSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V∼
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.278MHz		



Date: 19.SEP.2023 16:39:54

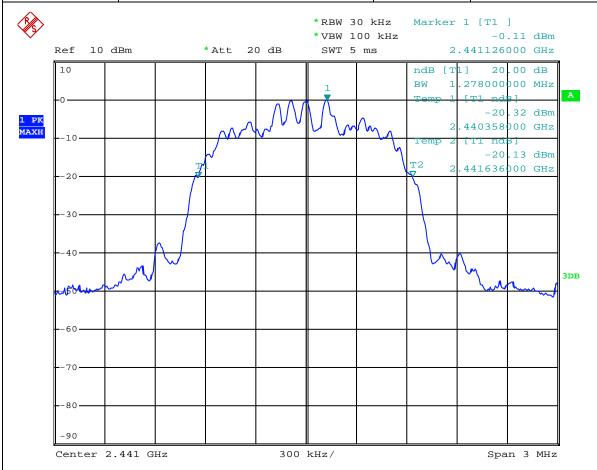
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Л/4DQPSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.278MHz		



Date: 19.SEP.2023 16:39:28

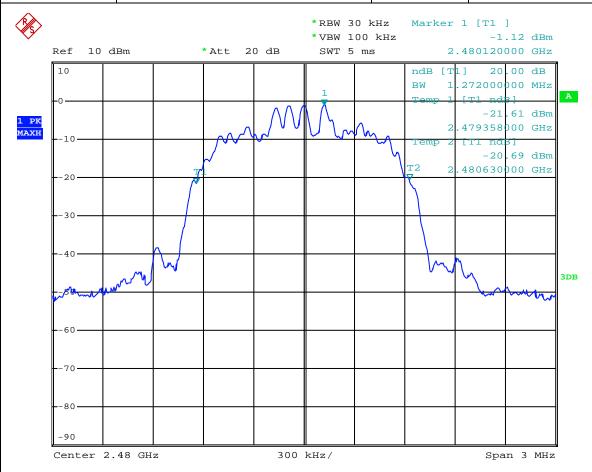
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Л/4DQPSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.272MHz		



Date: 19.SEP.2023 16:38:53

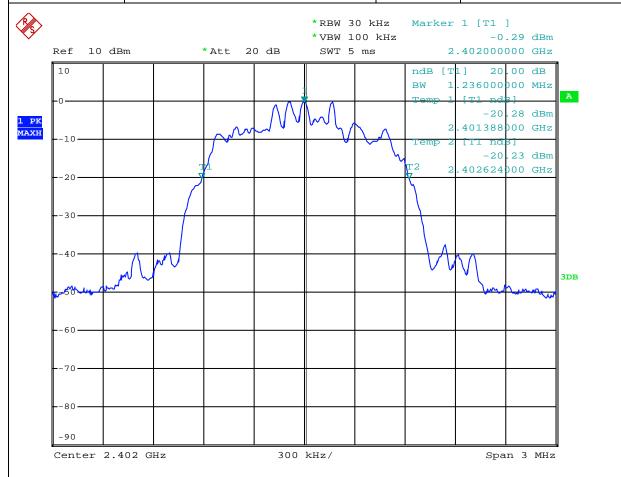
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8DPSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.236MHz		



Date: 19.SEP.2023 16:40:24

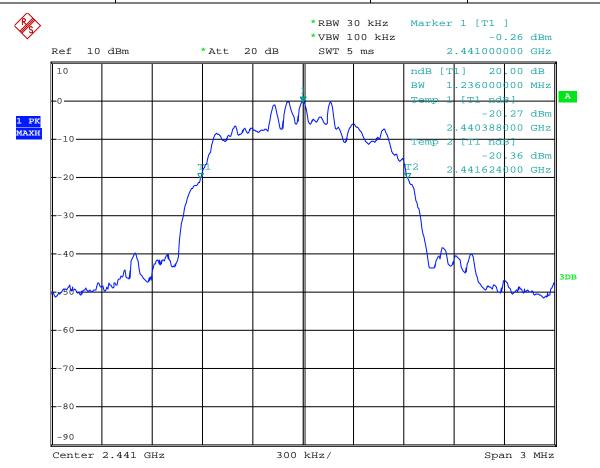
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8DPSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.236MHz		



Date: 19.SEP.2023 16:41:10

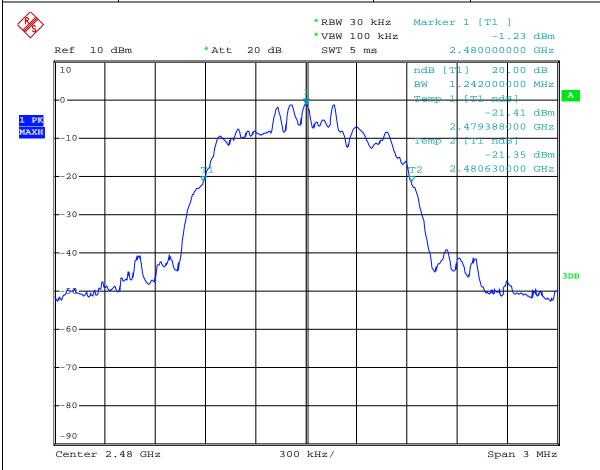
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8DPSK			
Product:	SPEAKER BOX/Parlante	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.242MHz		



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10.0 FCC ID Label

FCC ID: 2A6R4-MS-P112B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

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

Mark Location:



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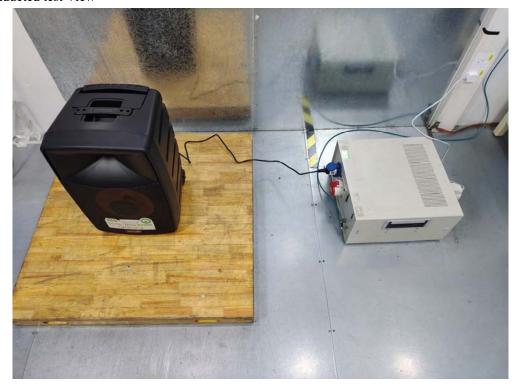
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11.0 Photo of testing

11.1 Conducted test View



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Radiated emission test view



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11.2 Photographs-EUT

Outside View





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Outside View





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Outside View





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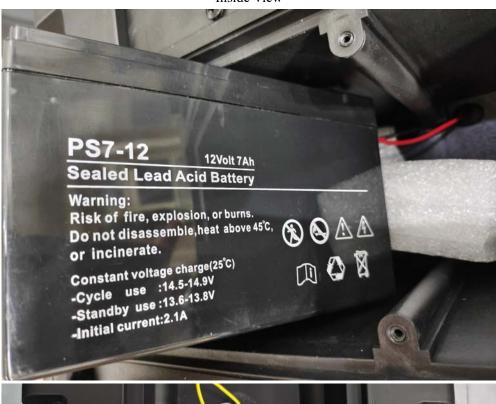
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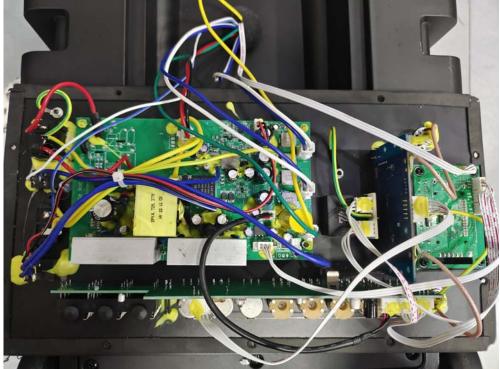
Report No.: TW2309005E

Date: 2023-09-22



Inside View





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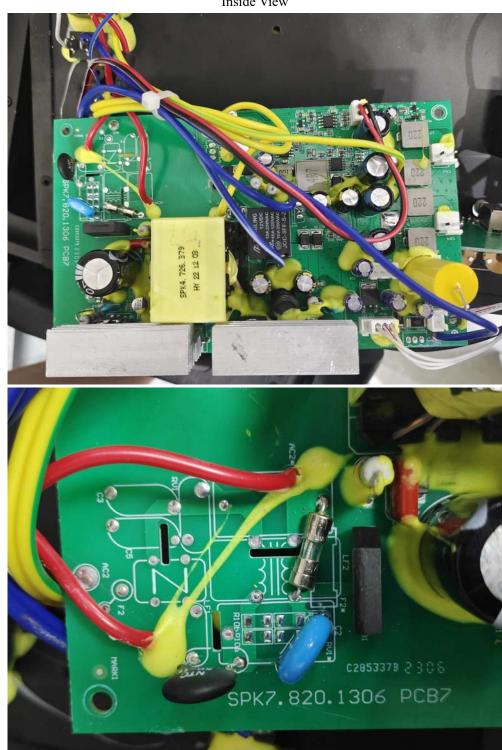
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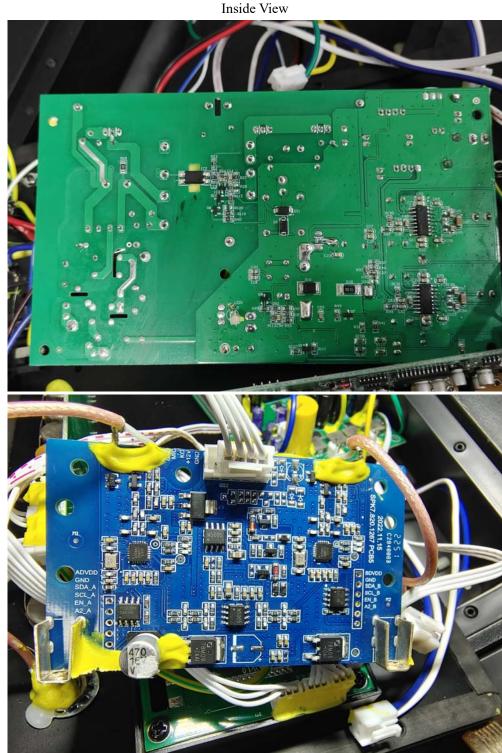
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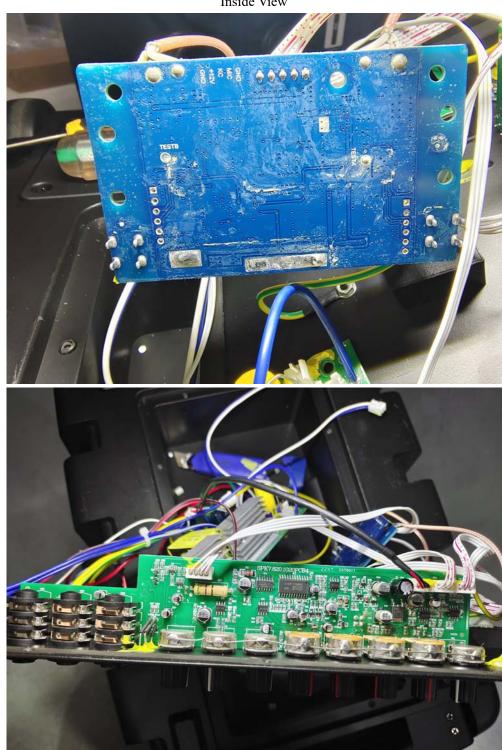
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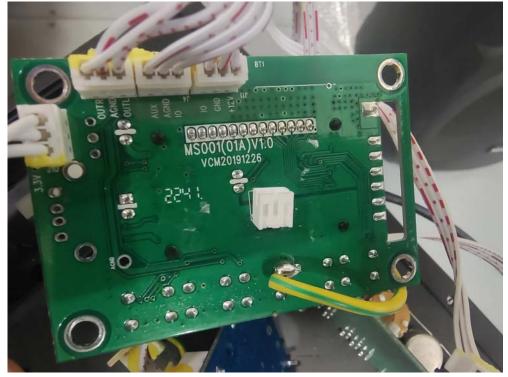
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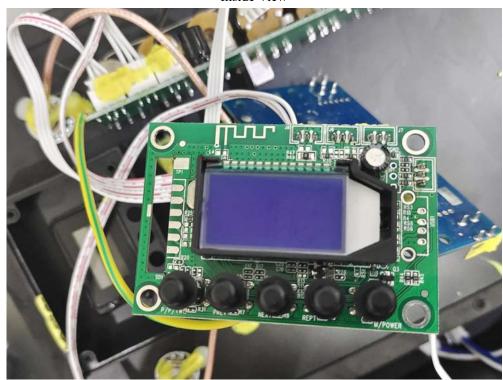
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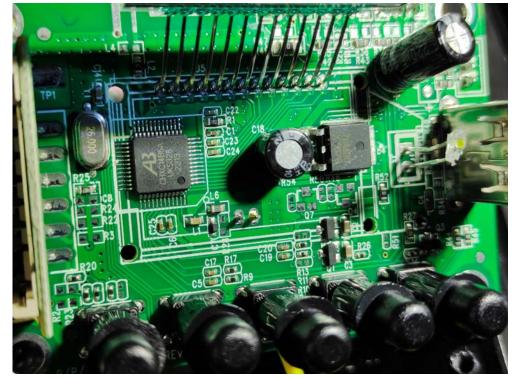
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