

Applicant: RADIOSHACK WORLDWIDE CORP.

Product: SPEAKER BOX

Model No.: 4001957, MAX-208F

Trademark: Radioshack

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: May 23, 2024

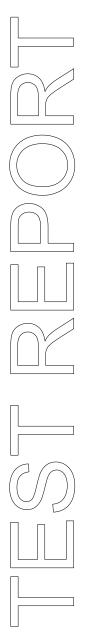
Results appearing herein relate only to the sample tested

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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Date: 2024-05-23



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

Date: 2024-05-23



Test Report Conclusion

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

11.0

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Photo of Test Setup and EUT View....

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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: RADIOSHACK WORLDWIDE CORP.

Address: Millennium Tower, 18th floor Paseo General Escalon Number 3675 Col. Escalon, San

Salvador, El Salvador

1.3 Description of EUT

Product: SPEAKER BOX

Manufacturer: MAXTRONIX CO., LTD.

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

CHANGZHOU, JIANGSU, CHINA

Trademark: Radioshack
Model Number: 4001957
Additional Model Name MAX-208F

Rating: Input: AC 100-240V~, 50/60Hz, 650mA

Battery: DC12V, 7.0AH Lead-Acid Battery

Serial No.: 4001957-V1.1 Hardware Version: 4001957-V1.1

Software Version: MS400195720240328115B

Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, 月/4DQPSK, 8DPSK

Number of Channels: 79 Channel Separation: 1MHz

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

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2024-05-14 to 2024-05-23

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	1	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 EUT has been	n tested accor	ding to the foll	owing specifications:

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

3.2 Test Standards

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

4.0 EUT Modification

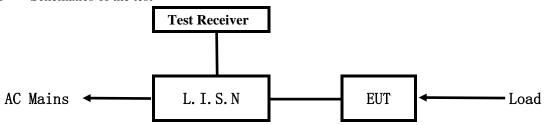
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2024-05-23



5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

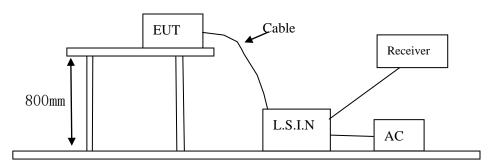


EUT: Equipment Under Test

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	
SPEAKER BOX	MAXTRONIX CO., LTD.	4001957, MAX-208F	2BDUR-4001957	

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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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 (dB μ V)			
(MHz)	Quasi-peak Level	Aver ge 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:

Date: 2024-05-23



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

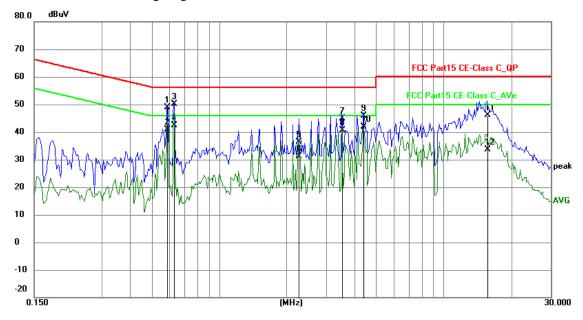
EUT Operating Environment

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	0.5868	39.05	9.77	48.82	56.00	-7.18	QP	Р
2	0.5868	31.08	9.77	40.85	46.00	-5.15	AVG	Р
3	0.6297	40.35	9.78	50.13	56.00	-5.87	QP	Р
4	0.6297	32.58	9.78	42.36	46.00	-3.64	AVG	Р
5	2.2677	26.56	9.81	36.37	56.00	-19.63	QP	Р
6	2.2677	21.36	9.81	31.17	46.00	-14.83	AVG	Р
7	3.5226	35.07	9.87	44.94	56.00	-11.06	QP	Р
8	3.5226	30.75	9.87	40.62	46.00	-5.38	AVG	Р
9	4.4040	35.98	9.90	45.88	56.00	-10.12	QP	Р
10	4.4040	32.10	9.90	42.00	46.00	-4.00	AVG	Р
11	15.6438	35.77	10.42	46.19	60.00	-13.81	QP	Р
12	15.6438	23.14	10.42	33.56	50.00	-16.44	AVG	Р

Date: 2024-05-23



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

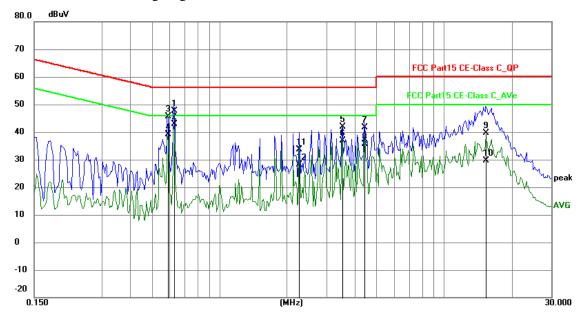
EUT Operating Environment

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	0.6297	37.89	9.78	47.67	56.00	-8.33	QP	Р
2	0.6297	33.01	9.78	42.79	46.00	-3.21	AVG	Р
3	0.5907	35.82	9.77	45.59	56.00	-10.41	QP	Р
4	0.5907	29.32	9.77	39.09	46.00	-6.91	AVG	Р
5	3.5226	31.92	9.87	41.79	56.00	-14.21	QP	Р
6	3.5226	26.97	9.87	36.84	46.00	-9.16	AVG	П
7	4.4079	31.77	9.90	41.67	56.00	-14.33	QP	Р
8	4.4079	25.77	9.90	35.67	46.00	-10.33	AVG	Р
9	15.3591	29.32	10.40	39.72	60.00	-20.28	QP	Р
10	15.3591	19.30	10.40	29.70	50.00	-20.30	AVG	Р
11	2.2677	23.83	9.81	33.64	56.00	-22.36	QP	Р
12	2.2677	18.44	9.81	28.25	46.00	-17.75	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:

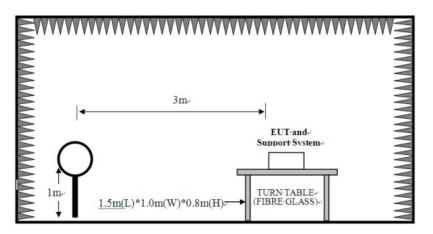
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

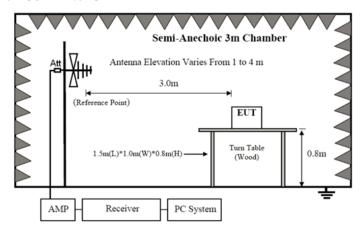
For radiated emissions from 9kHz to 30MHz



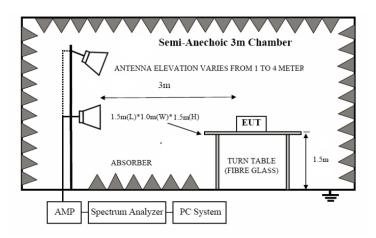
Date: 2024-05-23



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT
 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

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

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

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

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2400-2483.5 50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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Note: 1. RF Field Strength $(dBuV) = 20 \log RF \text{ Voltage } (uV)$

- 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.

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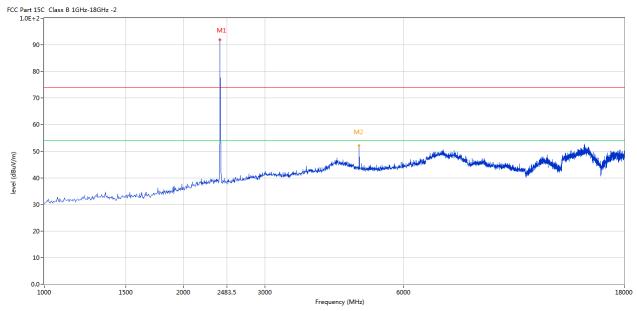


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



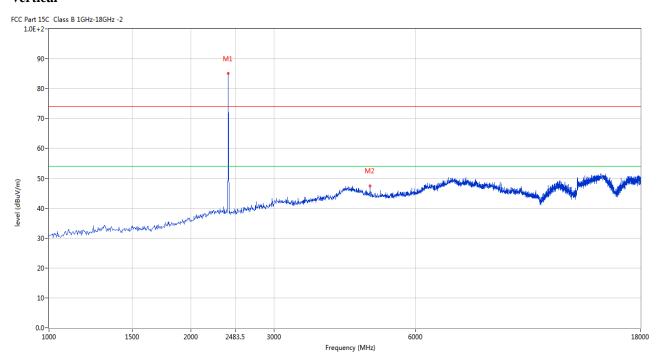
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	91.85	-3.57	114.0	-22.15	Peak	164.00	100	Horizontal	Pass
2	4802.799	52.08	3.12	74.0	-21.92	Peak	0.00	100	Horizontal	Pass

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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	85.03	-3.57	114.0	-28.97	Peak	97.00	100	Vertical	Pass
2	4802.799	47.50	3.12	74.0	-26.50	Peak	234.00	100	Vertical	Pass

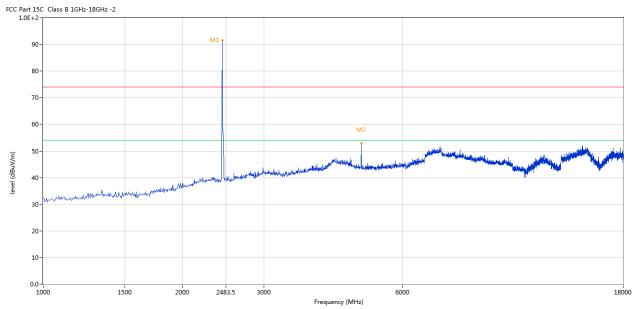
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



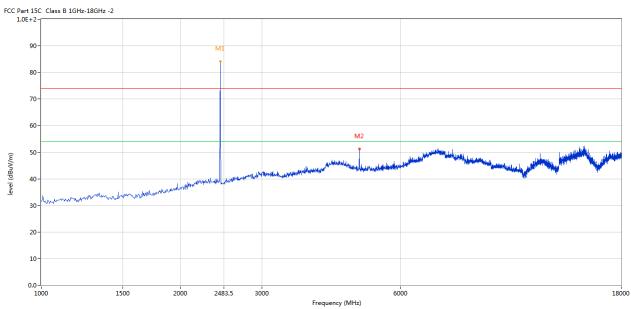
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.45	-3.57	114.0	-22.55	Peak	176.00	100	Horizontal	Pass
2	4879.280	52.92	3.20	74.0	-21.08	Peak	6.00	100	Horizontal	Pass

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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	84.20	-3.57	114.0	-29.80	Peak	290.00	100	Vertical	Pass
2	4879.280	51.21	3.20	74.0	-22.79	Peak	87.00	100	Vertical	Pass

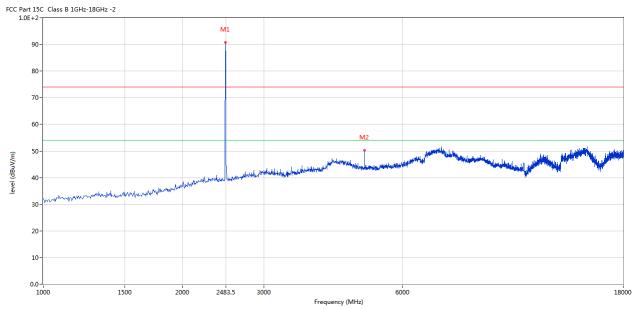
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



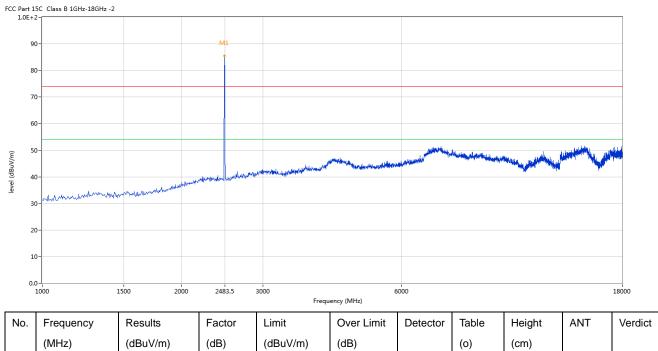
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	90.68	-3.57	114.0	-23.32	Peak	354.00	100	Horizontal	Pass
2	4960.010	50.26	3.36	74.0	-23.74	Peak	181.00	100	Horizontal	Pass

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Vertical



110.00 2480 85.49 -3.57 114.0 -28.51 Peak 100 Vertical Pass

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

- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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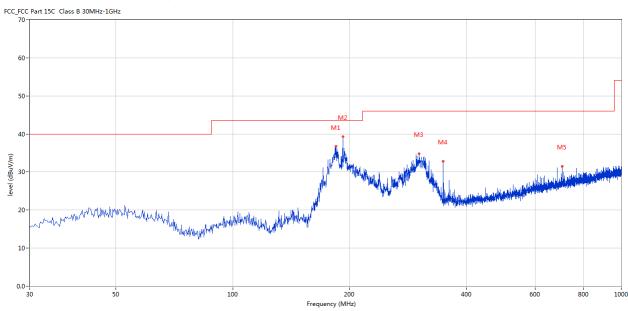


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	184.434	36.72	-14.99	43.5	-6.78	Peak	356.00	100	Horizontal	Pass
2	191.950	39.28	-14.07	43.5	-4.22	Peak	0.00	100	Horizontal	Pass
3	302.017	34.79	-10.99	46.0	-11.21	Peak	198.00	100	Horizontal	Pass
4	347.838	32.84	-9.43	46.0	-13.16	Peak	177.00	100	Horizontal	Pass
5	703.982	31.45	-4.14	46.0	-14.55	Peak	339.00	100	Horizontal	Pass

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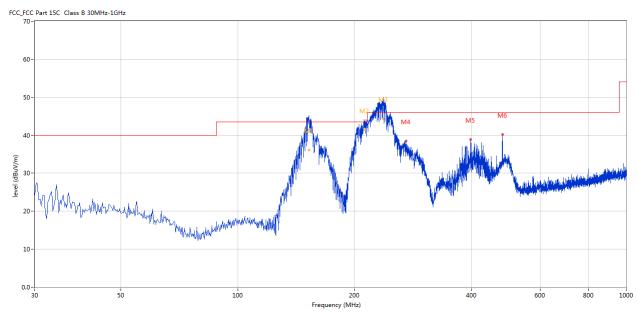


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1*	152.463	36.11	-16.88	43.5	-7.39	QP	46.00	199	Vertical	Pass
2*	211.718	41.34	-13.68	43.5	-2.16	QP	331.00	100	Vertical	Pass
3*	237.498	44.32	-12.39	46.0	-1.68	QP	146.00	200	Vertical	Pass
4	270.985	38.45	-11.73	46.0	-7.55	Peak	315.00	100	Vertical	Pass
5	397.781	38.94	-8.69	46.0	-7.06	Peak	352.00	100	Vertical	Pass
6	479.968	40.27	-7.40	46.0	-5.73	Peak	4.00	100	Vertical	Pass

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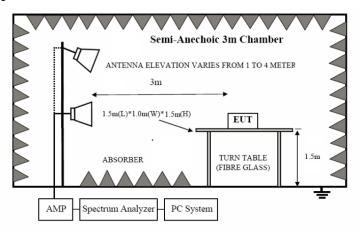


7. Band Edge

7.1 Test Method and test Procedure:

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

7. 2 Radiated Test Setup



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

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

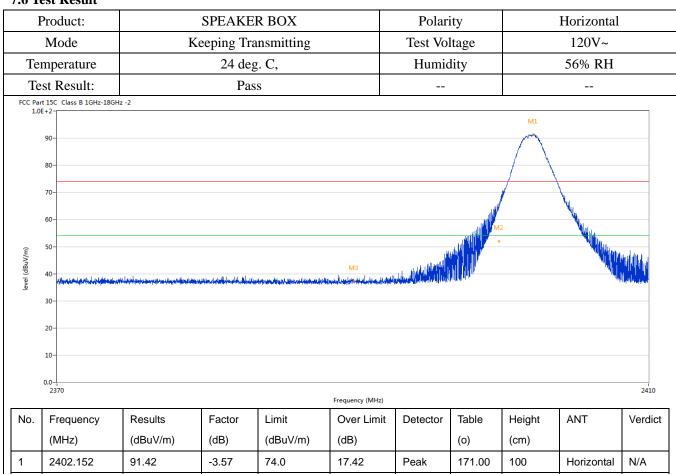
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result



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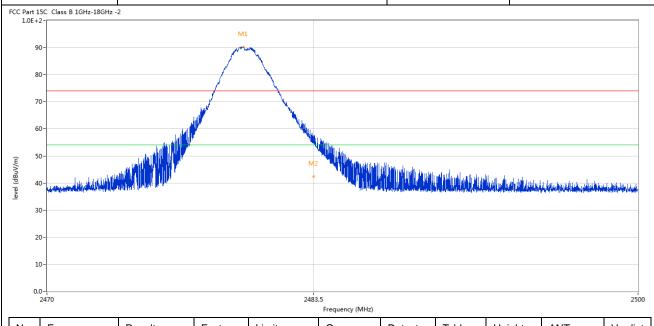


]	Product:		SPEAKE	ER BOX		Detect	or		Vertical	
	Mode	I	Keeping Tr	ansmitting		Test Vol	tage		120V~	
Te	mperature		24 de	g. C,		Humid	lity 56% RH		56% RH	
Te	est Result:		Pas	SS						
2 Part : 1.0E+	15C Class B 1GHz-18GHz	-2								
ģ	90-							M1		
8	80-							M1		
7	70-									
6	50-						/	/ \		
5	50-						J.1 M2			
. 2	10-									l alou nt a all
	and with the second sec	والمراد	the other international and description in		Maripul, webienish inpies ha		lylige by the		No.	
2	20-									
1	10-									
0	.0-									2
	2370				Frequency (MHz)					
	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdi
NO.			1	1	(ID)		(o)	(cm)	1	
NO.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(CIII)		
	(MHz) 2402.022	(dBuV/m) 84.03	(dB) -3.57	(dBuV/m) 74.0	10.03	Peak	88.00	100	Vertical	N/A
No. 1 2	, ,	, ,	` ′	, ,		Peak Peak	` '	` ,	Vertical Vertical	

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



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.913	90.22	-3.57	74.0	16.22	Peak	166.00	100	Horizontal	N/A
2	2483.500	56.12	-3.57	74.0	-17.88	Peak	71.14	100	Horizontal	Pass
2**	2483.500	42.23	-3.57	54.0	-11.77	AV	71.14	100	Horizontal	Pass

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I	Product:		SPEAKE	ER BOX		Detec	tor		Vertical	
	Mode	ŀ	Keeping Tr	ansmitting		Test Vo	ltage		120V~	
Te	emperature		24 de	g. C,		Humio	56% RH			
Te	est Result:		Pa	SS						
	rt 15C Class B 1GHz-18GH DE+2-	lz -2			•			•		
1.01	72.12									
	90-		M	11						
	80-			24						
	70-									
	60-		/	1						
	00-									
				M ₂						
/w/m)	50-			M2						
rel (dBuV/m)		man de distribuit de la companya de		M2 M2	A CONTRACTOR OF THE PARTY OF TH	National designation of the state of the sta		والمستورة والمتعادد والمتعادد والمتعادد والمتعادد	John Strange Strange Strange Strange	Marris Marris
level (dBuV/m)	40-	unacurab da		M2	The world have been supplied to the supplied t		est of the state of the search	on the state of th	heterite and provide the second to be second	erite paris pri <mark>de pari</mark> s.
level (dBuV/m)	50-	unternational desirability de la constitución de la constitución de la constitución de la constitución de la c		M2	And the safety seeming the property of the safety seeming the safety s	k distribus adapta sastar asal	asak di kilapin donbaarin, a	on the last of the second seco	dersine de la constant de la constan	يناور برياد يا المحيار
level (dBuV/m)	40-	un acurated de la		MZ	Marini Ma	h distribute a shiphe sindice may b	esches tiken kulturen, g	يونون _{د وا} داران و المراد والمراد	heessin nadiquada vada ee	riden and a side and a
level (dBuV/m)	50- 40-	unan da		M2	And the said of th	historiji din andrija di andrija	ach at likative kulmaru, a	nadishi da pandish da da ka	herriera de la procesa de la p	and a sure of the same of the
	30- 20-	uni acteriorio de tribilità de la companio de la c		M2	Marine and the second second second second	Nisell like subjekt speker, spek	m.l. utilitate de linea, q	ng dining mining mining mining	herine alpha de parting de la provide	with maje to Magazin
level (dBuV/m)	30 - 20 -	unteractive de de la light de la		M2 2483.		Niste ^{ll} I de a suite de la serie de la s	nd til håter de finner, s	ng direkti yang kelang pandang pandang	den en en de de la completación de	
	50- 40- 30- 20- 10-	Results	Factor	2483.	5	Detector	Table	Height	ANT	250
	30 - 20 - 10 - 2470		Factor (dB)	1	5 Frequency (MHz)					2500 Verdi
	30- 20- 10- 2470	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. 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 with gain 1.7dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

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Test Result

Product:	AKER BO	XC		T	est Mode:		Keep transmitting				
Mode		Keeping Transmitting				Те	est Voltage	120V~			
Temperature			24 deg. C,			Humidity					
Test Result:			Pass				Detector	PK			
dB Bandwidth			890kHz								
`	N	Marker	1 [T1 n	ndB]	RI	BW 30 kH		Hz Rl	F Att	20 dB	
Ref Lvl	r	ndB	20.	00 dB	VI	∃W	100 ki	Ηz			
10 dBm	BW 889.77955912 kHz					ТV	8.5 m	s Uı	nit	dBr	n
10							▼ 1	[T1]	-1	.58 dBn	.
									2.40200	902 GHz	A
0				_ ^	<u> </u>		ndB		20	.00 dB	1
				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\sqrt{\lambda}$	į.	BW		9.77955	912 kHz	
-10						1	∇ T1	[T1]	-20	.97 dBn	n
			ſ	AJ		1	۸ <u>_</u> ا		2.40155	210 GHz	
-20			T1				V _{T2} ∇ _{T2}	[T1]	-21	.14 dBn	
1MAX			المر				N		2.40244	100 GHZ	1M
-30		1					<u> </u>	√√\			1
		f'						F			
-40								+	Λ.		┨
-50		مجمهر						L.	N		
Markey									(n.seni	Samuel Control	Í
-60											
-70											1
-80											
-90 Center 2.40				200	kHz/					n 3 MHz	

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GFSK											
Product:		SPE	AKER BO	X	,	Test Mode:		Keep tra	nsmitting		
Mode		Keepin	g Transmi	tting	7	est Voltage	120V~				
Temperature		2	4 deg. C,			Humidity		56% RH			
Test Result:			Pass			Detector		I	PK		
20dB Bandwidth		;	890kHz								
€ A		Marker	1 [T1 r	ndB]	RBW	30 k	Hz R	F Att	20 dB		
Ref Lvl	ndB 20.00 dB					100 k	Ηz				
10 dBm	BW 889.77955912 kHz S					8.5 m	s U	nit	dBm	ı	
10						▼1	[T1]	- 0	.77 dBm		
					ı.			2.44000	902 GHz	A	
0				~ √	\ \	ndB		20	.00 dB		
					1	BW VT1		39.77955	912 kHz		
-10			^	N	1	V 1 3	. [+ +]	2.43955	210 GHz		
			Ti			V _{T2} ∇ _{T2}		-20	.35 dBm		
-20						1		2.44044188			
-30			F				- 5			1MA	
							4				
-40	M	-						M			
-50 N								7	Saude of the		
-60											
-70											
-80											
-90											
Center 2	Center 2.44 GHz							Spa	n 3 MHz		
Date: 23	.MAY.2	024 10	:03:50								

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GFSK										
Product:		SPE	AKER BO	X	Т	Test Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting	Т	est Voltage	;	120V~		
Temperature		24	4 deg. C,			Humidity		56%	6 RH	
Test Result:			Pass			Detector		I	PK	
20dB Bandwidth		8	890kHz							
F)		Marker	1 [T1 r	ndB]	RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	VBW		Hz		10	
10 dBm	BW 889.77955912 kHz				SWT	8.5 m	.s U:	nit	dBm	
						▼1	[T1]	-1	.57 dBm	A
0								2.48000	902 GHz	
				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	ndB BW	° 88	20 39.77955	912 kHz	
-10				Į	0]	V⊤i	[T1]	-20	.94 dBm	
			ſ	M	1	A		2.47955	210 GHz	
-20			T1			T2 [▼] T2	[T1]	-21	.05 dBm	
1MAX			f I			M		2.48044	188 GHZ	1MA
-30							ral .			
-40	M	n.m.d						M		
-50								-	- Aller	
-60										
-70										
-80										
-90 Center 2	48 011	7		300	kHz/			Cno	n 3 MHz	
		024 10	:05:23	300	X112/			Spa	II J MIZ	

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I/4DQPSK Product:	ΩX		Te	est Mode:	Keep transmitting					
Mode		EAKER BO				est Voltage		120		
Temperature		24 deg. C,				Humidity		56%		
Test Result:	<u> </u>	Pass				Detector	PK			
20dB Bandwidth		1.275MHz								
A Danawidin		1 [T1 n		DI	BW	30 k	H ₂ Di	F Att	20 dB	
Ref Lvl	ndB		00 dB		вw		Hz	1100	20 QD	
10 dBm	BW 3	L.274549	010 MHz	sı	МT	8.5 m	s Uı	nit	dBm	n
10						▼ 1	[T1]	_1	.91 dBm	1
						* 1		2.40200	902 GHz	A
0			_		_	ndi		20	.00 as	1
			$ \wedge \wedge $	\		BW		1.27454	910 MHz	
-10		74/7	\ <u></u>	4		J\ _V ∨±1	[T1]	-21	.79 dBm	
						7		2.40136	573 GHz	
-20	т	~				▽ T [[T1] T2	-21	.73 dBm	
1MAX							7	2.40264	028 GHZ	1M
-30										
-40								Λ ,		
-50	, ,							-	Marrie Co	1
-60										ł
-70										-
-80										
-90										
•	Center 2.402 GHz							Spa	n 3 MHz	_

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Product:		SPE	AKER BO	X		T	est Mode:		Keep tra	ansmitting	
Mode	Keeping Transmitting 24 deg. C, Pass						est Voltage		120V~ 56% RH		
Temperature							Humidity				
Test Result:							Detector		I	PK	_
OdB Bandwidth		1.	275MHz								
<u> </u>		Marker	1 [T1 n	idB]	RI	вW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 k	Ηz			
10 dBm		BW 1	.274549	10 MHz	SI	TW	8.5 m	s U	nit	dBm	
10							V 1	[T1]	- 0	.94 dBm	
					I.				2.44000	902 GHz	Z
0				Λ A <i>I</i>	1		ndE	3	20	0.00 dB	
			. ^	IAA	$\bigcup Y$	٠,	M VTI		1.27454	910 MHz	
-10			→ ~~``	<u> </u>		(7	_ [2.43936	573 GHz	
		TT 7	γ				VT	T2[T1]	-20.85 dBm		
-20							\	T	2.44064028 GHz		
-30											11
-40		n									
-50	M	Jen J						lange	My -	Λ	
-50 MP										VI-J	
-60											
-70											
-80											
-90											
-	Center 2.44 GHz			300	kHz/				Spa	n 3 MHz	

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Product:	SPEAKER BOX						est Mode:		Keep tra	nsmitting		
Mode	Keeping Transmitting						est Voltage	:	120V~			
Temperature		24 deg. C, Pass							56% RH			
Test Result:										PΚ		
20dB Bandwidth		1.	275MHz				Detector 					
<i>6</i>	•	Marker	1 [T1 n	idB]	R	BW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB	20.	00 dB	V	BW	100 k	Ηz				
10 dBm		BW 1	.274549	10 MHz	S	WT	8.5 m	s U	nit	dBm	ı	
10							▼ 1	[T1]	-1	.65 dBm		
									2.48000	902 GHz	A	
0				д Л.	Α /		ndi	,	20	.00 aB		
				MA	1	į	A =		1.27454	910 MHz		
-10				~		\ <u>`</u>	A Car All	[T1]	2.47936	.66 dBm 573 GHz	l	
	\sim						∇ T	[T1] -21.85 dBr				
-20	- J						<u> </u>	T2 7	2.48064028 GH			
1MAX		<u>f</u>									1M2	
30								-				
-40	~ \	W						lan	Ny			
-50	m/V								<u> </u>	-		
-60												
-70												
-80												
- 3 0												
-90	10 25				1 ** ′						Į.	
Center 2	40 GH	۷		300	kHz/				spa	n 3 MHz		

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8DPSK					
Product:	SPEAKER I	BOX	Test Mode:	Keep tran	nsmitting
Mode	Keeping Trans	mitting	Test Voltage	120)V~
Temperature	24 deg. C	7,	Humidity	56%	RH
Test Result:	Pass		Detector	P	K
20dB Bandwidth	1.251MH	[z		_	-
(E)	Marker 1 [T1	ndB]	RBW 30 k	Hz RF Att	20 dB
Ref Lvl	ndB 20	0.00 dB	VBW 100 k	Ηz	
10 dBm	BW 1.25050	0100 MHz	SWT 8.5 m	s Unit	dBm
10			▼1	[T1] -	1.88 dBm
				2.4020	0902 GHz
0		- ^ ^	ndi	2	0.00 as
		//Vlw	BW	1.2505	0100 MHz
-10			T T	2.4013	2.33 dBm 8978 GHz
			▽ 1	[T1] -2	1.73 dBm
-20	T V			F2 2.4026	4028 GHz
1MAX -30					1MA
-40					
1	1			VW	
-50					
-60					
-70					
-80					
-90					
Center 2.40 Date: 23.MZ	02 GHz AY.2024 10:12:36	300 kHz,	,	Sp.	an 3 MHz

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8DPSK											
Product: SPEAKE				X		Test Mode	:	Keep transmitting			
Mode	Temperature 24 c		g Transmi	tting		Test Voltage	e	120V~			
Temperature			4 deg. C,			Humidity		56% RH			
Test Result:			Pass			PK	K				
20dB Bandwidth		1.244MHz									
F.		Marker	1 [T1 n	idB]	RBI	7 30 F	KHZ R	F Att	20 dB		
Ref Lvl		ndB		00 dB	VBI		cHz				
10 dBm		BW 1	.244488	98 MHz	SW	r 8.5 n	ns U	nit	dBm		
						▼1	[T1]	-1	.07 dBm	A	
0					l.			2.44000	902 GHz		
				ΛM	A A	ndl BW		20	.00 dB 898 MHz		
-10			_ ^~	$\sim 1 \text{A} \text{A}$	mil	. ↑ ~ T	l [T1]	-20	.71 dBm		
-10			TV			101		2.43939	579 GHz		
		T	f			∇ <u>1</u>	_{[2} [T1]	-20	.81 dBm		
-20							Ţ	2.44064	028 GHZ	1MA	
							1				
-30							Ţ.				
							ţ				
-40	\wedge	~~ \						$\Lambda\Lambda$			
	√ کیم							4	Λ		
-50	, ,							(M)	The T		
-60											
-70											
-80											
-90					<u> </u>			_			
Center 2	.44 GHz	:		300	kHz/			Spa	n 3 MHz		
Date: 23	.MAY.20	024 10	:17:21								

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DPSK					ı			1				
Product: SPEAKER BOX				Test Mode:			Keep transmitting					
Mode Keeping Transmitting				tting		Test Voltage			120V~			
			4 deg. C,	deg. C,			Humidity		56% RH PK			
Test Result:		Pass					etector					
0dB Bandwidth	1.244MHz											
real contractions		Marker	1 [T1 n	ndB]	RB	W	30 k	Hz RI	F Att	20 dB		
Ref Lvl		ndB	20.	00 dB	VB	W		Ηz				
10 dBm		BW 1	1.244488	98 MHz	SW	T	8.5 m	s Uı	nit	dBm	ı	
10							V 1	[T1]	-1	.91 dBm		
					i				2.48000	902 GHz	A	
0				_ A /	Т	\dashv	ndE		20	.00 aB		
					In		BW		1.24448	898 MHz		
-10			/W/Just	<u> </u>		$\forall \vdash$	VT1	[T1]	-21 2.47939	.76 dBm 579 GHz		
			1				\[\sqrt{\frac{1}{2}} \]	[T1]	-21	.88 dBm		
-20		T	/			-	<u> </u>	r2	2.48064	028 GHz		
1 MAX											1м	
-40												
-50		N						\mathcal{M}	M	ſ.		
Min	<i>₹</i> 0								O.	make		
-60												
-70												
-80						_						
-90												
Center 2.48 GHz 300 kl				kHz/				Spa	n 3 MHz			

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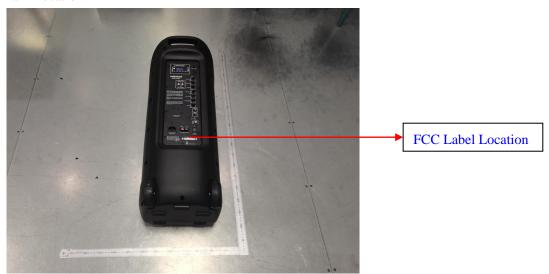
10.0 FCC ID Label

FCC ID: 2BDUR-4001957

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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11.0 Photo of testing

11.1 Conducted test View



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Radiated emission test view



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11.2 Photographs - EUT

Outside View





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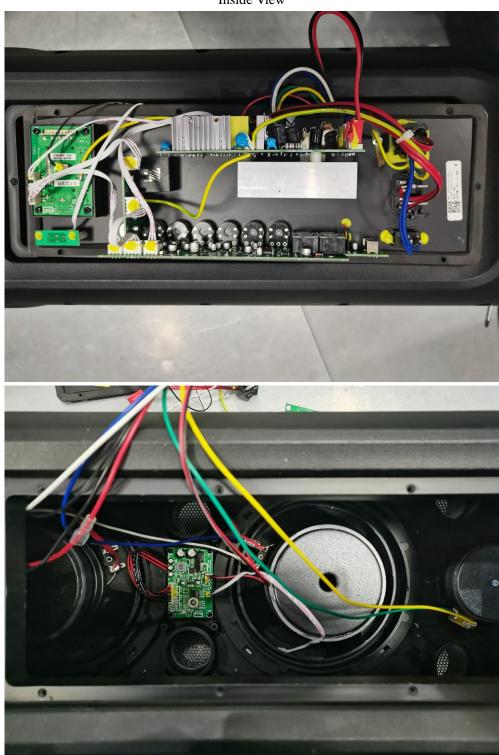
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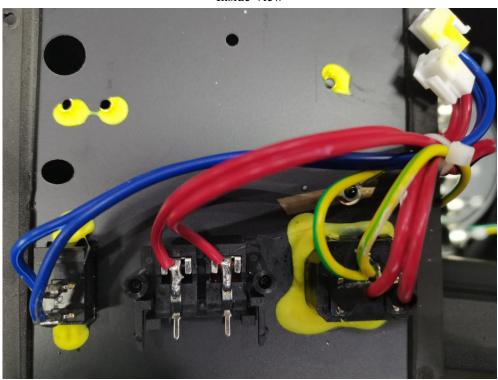
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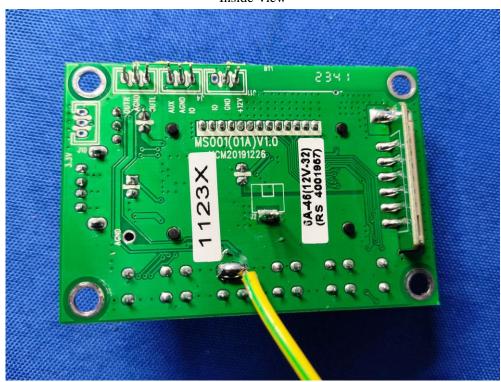
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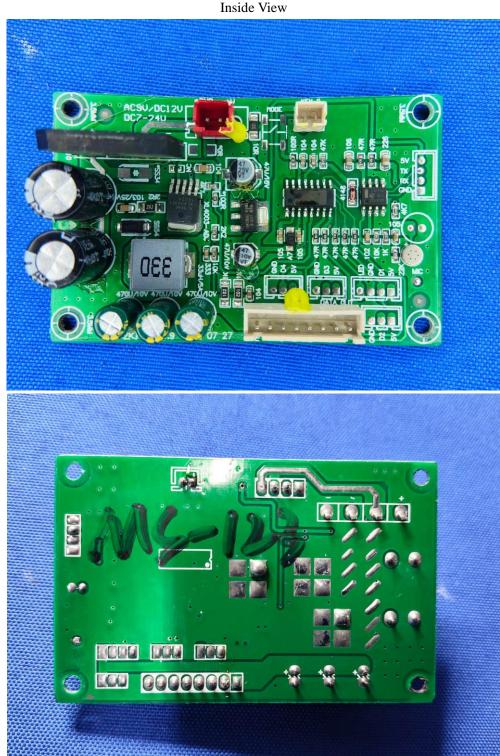


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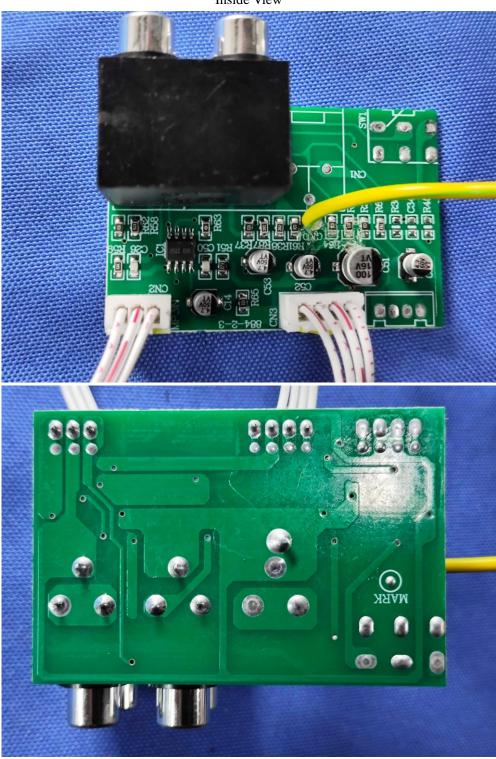
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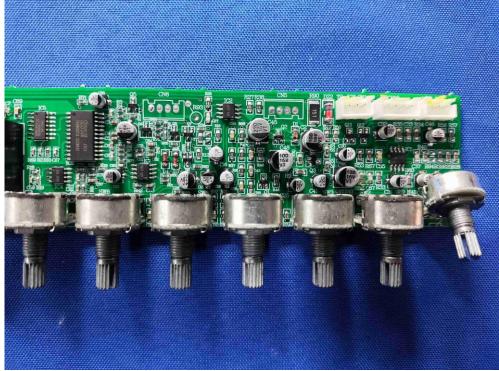
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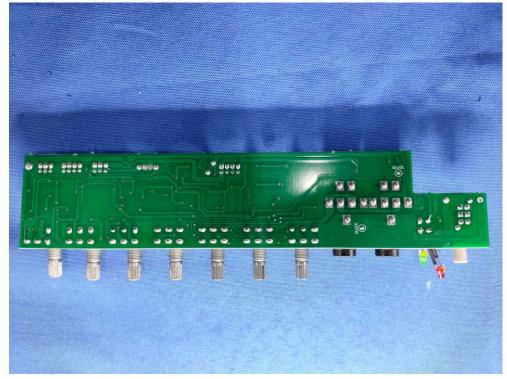
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