

File reference No.: 2022-07-25

Applicant: TITAN INC.

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

Product: Speaker box / Parlante

Model No.: MS-1600B

moonki

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

Trademark:

Total land

Terry Tang

Manager

Dated: July 25, 2022

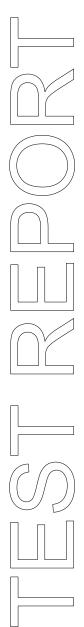
Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail: info@timeway-lab.com



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Special Statement:

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

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

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

CNAS-LAB Code: L2292

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

FCC-Registration No.: 744189

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

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

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

A2LA (Certification Number:5013.01)

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

Date: 2022-07-25



Test Report Conclusion

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

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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: 305-369-6040 Fax: 305-320-3198

1.3 Description of EUT

Trademark:

Product: Speaker box / Parlante
Manufacturer: MAXTRONIX CO., LTD.

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

CHANGZHOU, JIANGSU, CHINA

шц

moonki°

Model Number: MS-1600B

Additional Model Name N/A

Rating: AC100-220V, 50/60Hz, 80W

Battery: DC12V, 5Ah Sealed Lead Acid Battery

Modulation Type: GFSK, Π/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz
Hardware Version: 7.0
Software Version: 1.2

Serial No.: 202207121600B

Antenna Designation PCB antenna with gain -0.58dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 1 Samples

1.5 Test Duration

2022-07-05 to 2022-07-25

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	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100294	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100253	2022-06-17	2023-06-16
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-06-17	2023-06-16
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2022-06-17	2023-06-16
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2022-06-17	2023-06-16
Power sensor	Anritsu	MA2491A	32263	2022-06-17	2023-06-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2022-06-17	2023-06-16
EMI Test Receiver	RS	ESVB	826156/011	2022-06-17	2023-06-16
EMI Test Receiver	RS	ESH3	860904/006	2022-06-17	2023-06-16
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2022-06-17	2023-06-16
Spectrum	HP/Agilent	E4407B	MY50441392	2022-06-17	2023-06-16
Spectrum	RS	FSP	1164.4391.38	2022-01-05	2023-01-04
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-06-17	2023-06-16
RF Cable	Zhengdi	7m		2022-06-17	2023-06-16
RF Switch	EM	EMSW18	060391	2022-06-17	2023-06-16
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-06-17	2023-06-16
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-06-17	2023-06-16
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

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 teste	d according	to the	following	specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209 and RSS-210	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

3.2 Test Standards

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

4.0 EUT Modification

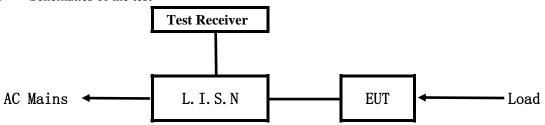
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

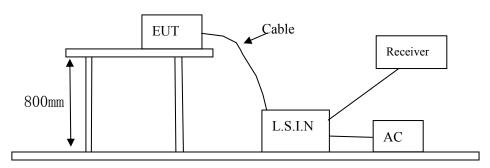


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. 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.	MS-1600B	2A6R4-MS1600B
Parlante	WAATKONIA CO., LTD.	WIS-1000D	2AUN4-WIS1000D

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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 C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
$5.00 \sim 30.00$	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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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

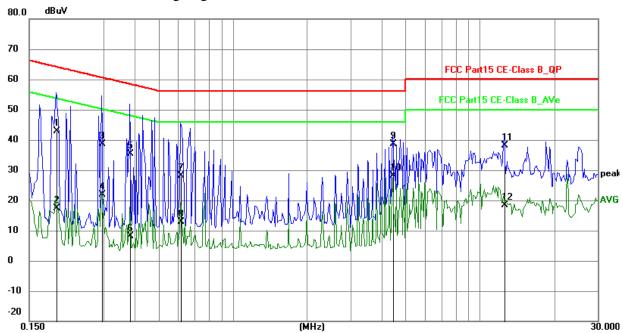
EUT Operating Environment

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	0.1929	33.17	9.75	42.92	63.91	-20.99	QP	Р
2	0.1929	7.75	9.75	17.50	53.91	-36.41	AVG	Р
3	0.2943	28.79	9.76	38.55	60.40	-21.85	QP	Р
4	0.2943	12.10	9.76	21.86	50.40	-28.54	AVG	Р
5	0.3840	25.52	9.76	35.28	58.19	-22.91	QP	Р
6	0.3840	-1.70	9.76	8.06	48.19	-40.13	AVG	А
7	0.6141	18.30	9.78	28.08	56.00	-27.92	QP	Р
8	0.6141	3.08	9.78	12.86	46.00	-33.14	AVG	Р
9	4.4469	28.75	9.91	38.66	56.00	-17.34	QP	Р
10	4.4469	18.25	9.91	28.16	46.00	-17.84	AVG	Р
11	12.5238	27.98	10.27	38.25	60.00	-21.75	QP	Р
12	12.5238	8.19	10.27	18.46	50.00	-31.54	AVG	Р

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

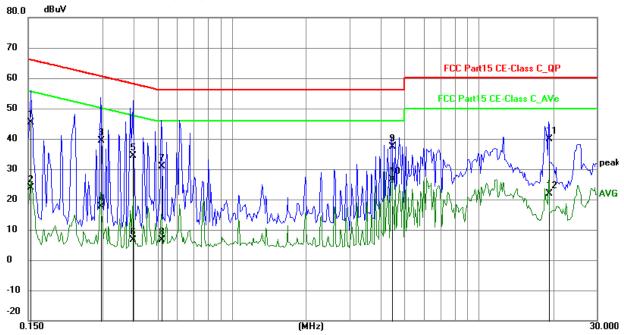
EUT Operating Environment

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	0.1539	35.52	9.78	45.30	65.79	-20.49	QP	Р
2	0.1539	14.10	9.78	23.88	55.79	-31.91	AVG	Р
3	0.2943	29.50	9.76	39.26	60.40	-21.14	QP	Р
4	0.2943	7.90	9.76	17.66	50.40	-32.74	AVG	Р
5	0.3996	24.69	9.76	34.45	57.86	-23.41	QP	Р
6	0.3996	-3.16	9.76	6.60	47.86	-41.26	AVG	А
7	0.5205	21.12	9.77	30.89	56.00	-25.11	QP	Р
8	0.5205	-3.07	9.77	6.70	46.00	-39.30	AVG	Р
9	4.4430	27.40	9.91	37.31	56.00	-18.69	QP	Р
10	4.4430	16.61	9.91	26.52	46.00	-19.48	AVG	Р
11	19.2123	29.31	10.63	39.94	60.00	-20.06	QP Q	Р
12	19.2123	11.24	10.63	21.87	50.00	-28.13	AVG	Р

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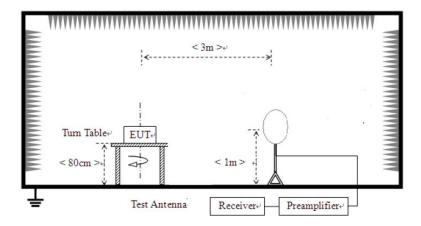


6 Radiated Emission Test

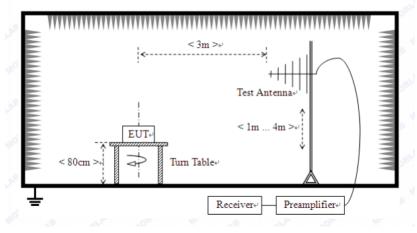
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (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



For radiated emissions from 30MHz to1GHz



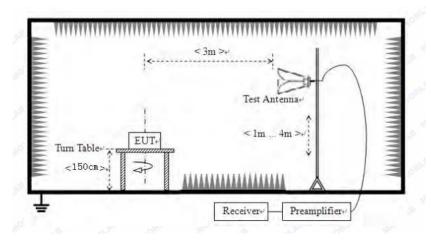
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For radiated emissions above 1GHz



- 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 Fundame	ntal (3m)	Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m uV/m dBuV/m		V/m		
2400-2483.5	50	94 (Average) 114 (Peak)		500	54 (Average)	74 (Peak)

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.

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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 two modulation modes of GFSK and Pi/4D-QPSKwere tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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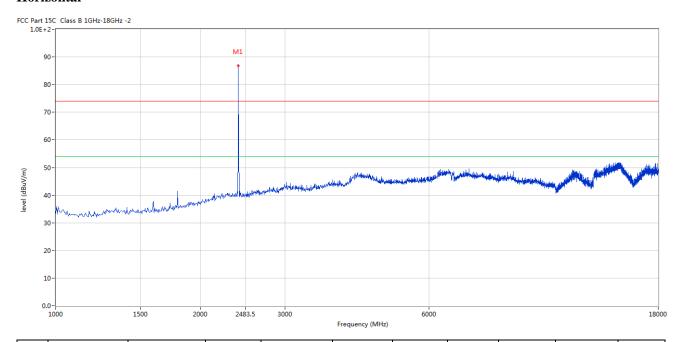


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



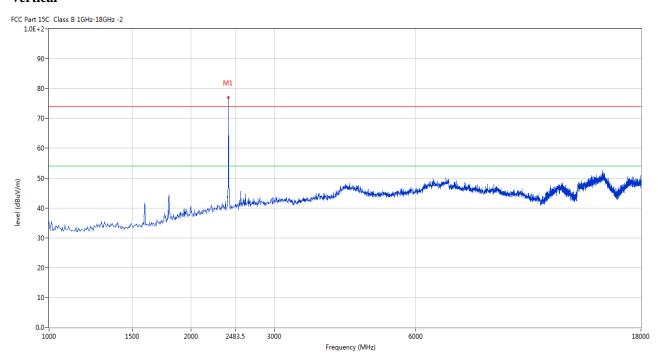
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2402	86.79	-3.57	114.0	-27.21	Peak	101.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	76.94	-3.57	114.0	-37.06	Peak	164.00	100	Vertical	Pass

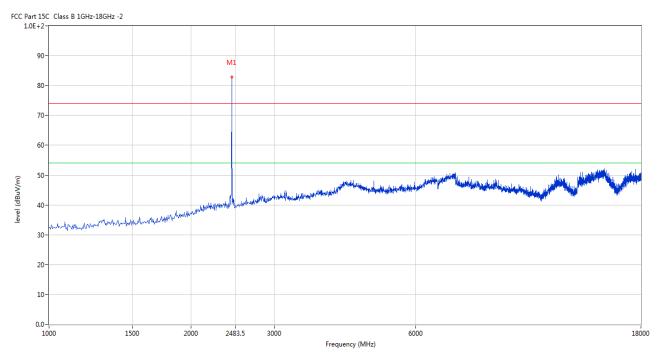
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



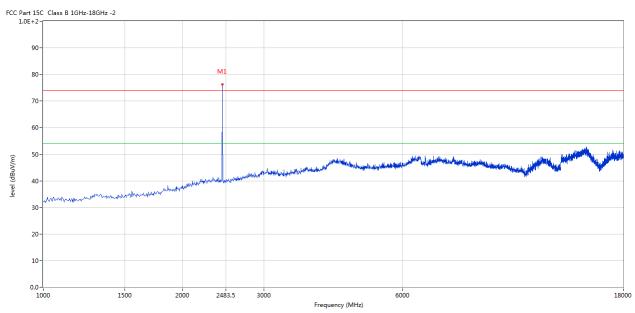
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2441	82.84	-3.57	114.0	-31.16	Peak	115.00	100	Horizontal	Pass

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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	76.32	-3.57	114.0	-37.68	Peak	165.00	100	Vertical	Pass

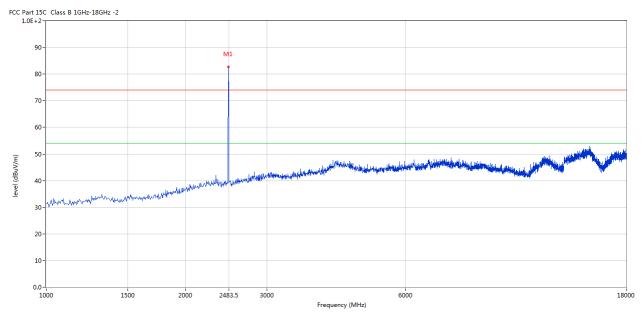
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480	82.76	-3.57	114.0	-31.24	Peak	359.00	100	Horizontal	Pass

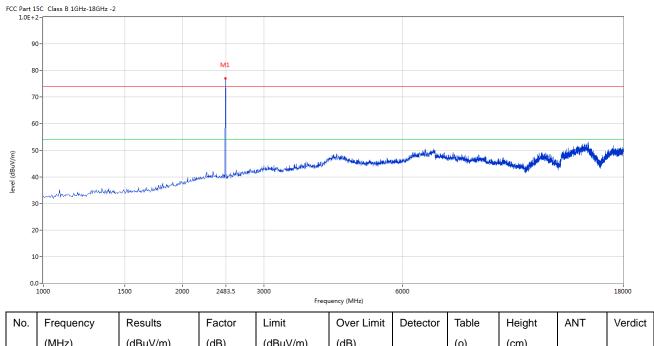
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	77.04	-3.57	114.0	-36.96	Peak	170.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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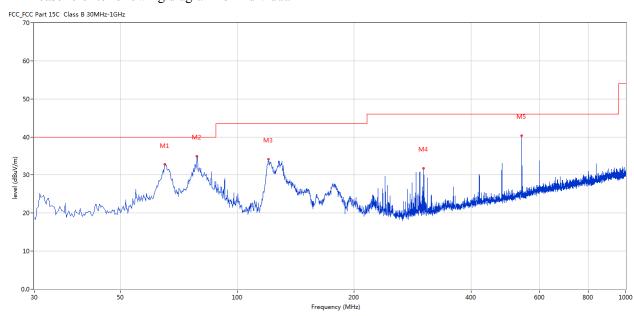


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	65.154	32.76	-13.63	40.0	-7.24	Peak	136.00	100	Horizontal	Pass
2	78.730	34.97	-17.47	40.0	-5.03	Peak	229.00	200	Horizontal	Pass
3	120.187	34.15	-15.39	43.5	-9.35	Peak	270.00	200	Horizontal	Pass
4	302.017	31.81	-10.99	46.0	-14.19	Peak	354.00	100	Horizontal	Pass
5	539.850	40.32	-6.51	46.0	-5.68	Peak	0.00	200	Horizontal	Pass

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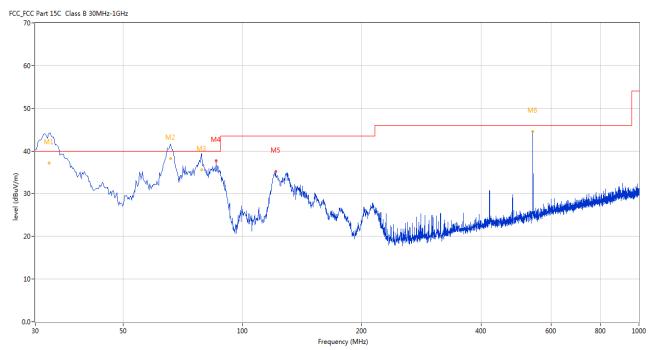


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1*	32.513	37.22	-14.48	40.0	-2.78	QP	293.00	200	Vertical	Pass
2*	65.920	38.19	-13.87	40.0	-1.81	QP	215.00	100	Vertical	Pass
3*	78.949	35.60	-17.46	40.0	-4.40	QP	360.00	100	Vertical	Pass
4	85.761	37.71	-16.36	40.0	-2.29	Peak	352.00	100	Vertical	Pass
5	121.157	35.17	-15.59	43.5	-8.33	Peak	296.00	100	Vertical	Pass
6*	540.013	44.52	-6.51	46.0	-1.48	QP	204.00	100	Vertical	Pass

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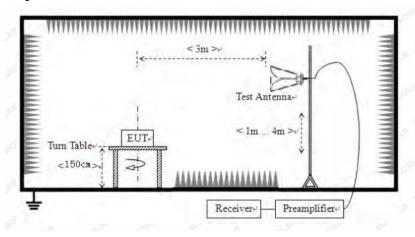


7. Band Edge

7.1 Test Method and test Procedure:

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

7. 2 Radiated Test Setup



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

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

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

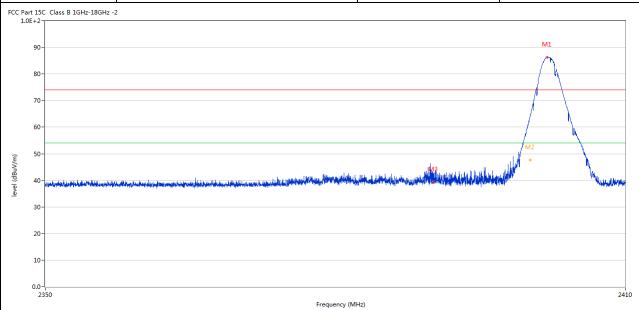
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7.6 Test Result

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	2401.827	86.22	-3.57	74.0	12.22	Peak	213.00	100	Horizontal	N/A
2	2400.042	63.78	-3.57	74.0	-10.22	Peak	213.00	100	Horizontal	Pass
2**	2400.042	47.67	-3.57	54.0	-6.33	AV	213.00	100	Horizontal	Pass
3	2390.025	39.23	-3.53	74.0	-34.77	Peak	223.00	100	Horizontal	Pass

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F	Product:	Sp	eaker box	/ Parlante		Detecto	or	7	/ertical	
	Mode	K	eeping Tra	nsmitting		Test Volt	age	120V~		
Te	mperature		24 deg	. C,		Humidity		56% RH		
Те	est Result:		Pass							
90 80 70 60	Mode Imperature st Result: 5C Class B 1GHz-18GHz -2							M	11	
. 50	٥- برابارمهان خيفه المانيان المانية	e gelgen der til en ste hald man er stem som hald	a to he deposition that he saided	i in all had been been been been been been been bee	Mary Mary Mary State Sta	M3	HA PARAPATA AND A	M2	Acida	the state of the s
30 20 10		neigen des this meight de mar se miten in each de	akalelurdyendenyekakusakda	i zavode last fullstade de Antife Provide Person del	after blee eightenspleide vergete blee is weten	M3	ille home problem per	M2	No.	
30 20 10	0			F	requency (MHz)		ill the problem of the second	M2		24
30 20 10	0- 0- 0- 0- 2350	Results	Factor			Detector	Table	M2 Height	ANT	24
30 20 10	0			F	requency (MHz)		Table (o)	Height (cm)		24
40 30 20 10 0.0	0- 0- 0- 0- 2350	Results	Factor	F Limit	requency (MHz) Over Limit					24
30 20 10	o	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	requency (MHz) Over Limit (dB)	Detector	(0)	(cm)	ANT	verd
30 20 10 0.0	0-2350 Frequency (MHz) 2401.797	Results (dBuV/m) 76.93	Factor (dB) -3.57	Limit (dBuV/m) 74.0	requency (MHz) Over Limit (dB) 2.93	Detector Peak	(o) 342.00	(cm)	ANT Vertical	Verd

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]	Product:		Speaker	box / Parlan	ite		Polarity	y	Horizon	tal
	Mode		Keepin	g Transmittir	ıg	,	Test Volta	nge 120V~		
Те	mperature		2	4 deg. C,			Humidit	ty	56% RH	
Те	est Result:			Pass						
C Part 1 1.0E+	L5C Class B 1GHz-18GHz 2-	-2								
_										
9	0-		M1							
8	0-									
7	0-									
6	0-			À						
				M2						
4	0-	· Salaharan da	<i>[</i>							
4	٥٠- من المعادر والمعادر والمعا	Landard Andrews Control of the Contr			Market Spirit Sp	والبار والمراد والمراز والمراد والمراز	hinest horas philadelphia	han pelakahan pelakahan pelakah	italik jados og sjólim saktólyda skilosofik ser	distriction.
3	0-									
2	0-									
2										
1	0-									
_				2483.5						2500
0.	2470				Frequency (MHz)					
	2470									
0.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verd
0.	T	Results (dBuV/m)	Factor (dB)	1	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdi
	Frequency			Limit		Detector Peak			ANT Horizontal	Verd

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	Product:		Speake	er box / Parlar	nte		Detecto	r	Vertica	al
	Mode		Keepir	ng Transmittii	ng	-	Test Volta	age	120V	~
Te	emperature		2	24 deg. C,		ty	56% RH			
Т	est Result:			Pass						
C Part :	15C Class B 1GHz-18GHz	-2				· ·		•		
1,06+	-2-									
9	90-									
8	30-		M1							
-	70-			\						
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(m/angp) Javai	10 - manyahirahahan hariban manyah	عاطف مالجا وطاية المعاددة المع			langer des parrier des des de desigle	ورسيع فالمراسلية	Adambianjaddaman	and the second seco	mildele de la	Mariona
(m/angp) Javai	50-	عطنسا واستغام والمتابعة والمتابعة والمتابعة والمتابعة			horen den sassista daga basil basil badan dag	Az dan oldusida da dan oldusida da d	Adelbaracjaeddunani	in deputed disposition the bible is	mishdadh dalah kilon di jada	Marina
(m/angn) laaal	10 - manyahirahahan hariban manyah	عطفنيونها يدينها فديونها والمباطئة المتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية			kanya dipa perijaka kalenda dibabah dipaka dibabah dipaka dibabah dipaka dibabah dipaka dibabah dipaka dibabah	And the second	Adambie w Joseph Language	te taquidd daya bactaabblys	ant old a street a state of the last state of th	duman
(III/Ango) iaaai	50- 40- _{pakus} a adalah bajikan masa 30-	عطنسابا يعانيها فداستاها والمنابعة المنابعة			house des projects displayed in the debay has	de de contrada de la	Adambia it juddunou		nethledd daibh i shleici b. d.	N
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(iu/angn) isaasi 3	10	addinate jankisate sambatishirke kelebe		2483.5		de de constituto de la constitución de la constituc	Adambia uzundi umma	erioquialibility in presentation in the second se	neldedddiaddirei b.d.	2500
(III/Annon) 44	10	and the state of t	- Fortier	2483.5 Fre	equency (MHz)					I
(iu/angn) isaasi 3	10	Results	Factor	2483.5 Fre	equency (MHz) Over Limit	Detector	Table	Height	ANT	I
(III/Annon) 44	60	Results (dBuV/m)	(dB)	2483.5 Fre Limit (dBuV/m)	oquency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdi
(III/Annon) 44	10	Results		2483.5 Fre	equency (MHz) Over Limit		Table	Height		2500 Verdi

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

2. Two modulation Types were tested and only the worst case was recorded in the test report and GFSK modulation 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 -0.58dBi Max. It fulfills the requirement of this section. Test Result: Pass

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FSK									
Product:	Speaker bo	ox / Parlante		Test Mode	e:	Keep trai	nsmitting		
Mode	Keeping T	ransmitting		Test Voltag	ge	120V~			
Temperature	24 d	eg. C,		Humidity	7	56%	RH		
Test Result:		ass		Detector		P	K		
dB Bandwidth	865.	73kHz				-	-		
``	Marker 1	[T1 ndB]	RE	30 30	kHz R	F Att	20 dB		
Ref Lvl	ndB	20.00 dB		3W 100					
10 dBm	BW 865.73	3146293 kHz	SW	WT 8.5	ms U	nit	dB	m	
10				▼ -	1 [T1]		1.76 dB	_	
				-		2.40183		Z	
0		1		no	iB	20	0.00 dB		
			$\setminus \Lambda$	BV		5.73146	293 kH:	Z	
-10			<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	r] [T1]	-23	2.21 dB	m	
		/ [~]		V.	r2 [T1]		008 GH:		
-20				V ₂	rz [TI]	2.40240		TI.	
1MAX	~	J			١	2.10210	, 501 GII.	1	
-30					7				
-50						m			
-60						4	Mulan		
							-41	7	
-70									
-80									
-90 Center 2.402		300	_				an 3 MH:	_]	

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GFSK													
Product:		Speaker	r box / Par	lante		Г	est Mode:		Keep tra	ansmitting			
Mode		Keepin	g Transmi	tting		T	est Voltage	e	12	0V~			
Temperature		2	4 deg. C,				Humidity		56% RH				
Test Result:			Pass				Detector		PK				
20dB Bandwidth	865.73kHz												
R)					BW	30 k	Hz R	F Att	20 dB				
Ref Lvl		ndB		00 dB		'BW	100 k						
10 dBm		BW 865	5.731462	293 kHz	S	WT	8.5 m	ıs Uı	nit	dBm			
							v ₁	[T1]	-(1.12 dBm	A		
0				1					2.44083	8467 GHz			
				/~~	Λ Λ		ndF	3	20	0.00 dB			
					\ \ (١	BW ∇ _T 1	86 L [T1]	5.73146 -20	293 kHz 1.84 dBm			
-10				\mathcal{N}		7	١		2.44054	008 GHz			
	TA				_{\frac{7}{12}} \rightarrow		2 [T1]		-20.45 dBm				
-20			~ **				4		2.44140581 GHz		1MA		
-30							\sim	_			IMA		
								7					
-40									W				
-50	V ^r	•							V	manny			
-60													
-70													
-80													
-90 Center 2	2.441 GI	Hz		300	kHz/				Spa	an 3 MHz			
Date: 18	8.JUL.2	022 10	:10:45										

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GFSK											
Product:		Speaker	r box / Par	lante		T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Te	est Voltage			0V~	
Temperature		2	4 deg. C,]	Humidity		56% RH		
Test Result:			Pass			Detector]	PK	
20dB Bandwidth		86	65.73kHz								
Ŕ	Marker 1 [T1 ndB] ndB 20.00 dB					ВW	30 kI	Iz RI	F Att	20 dB	
Ref Lvl						3W	100 ki				
10 dBm		BW 865	5.731462	293 kHz	SV	T	8.5 ms	s Uı	nit	dBm	ı
10							v ₁	[T1]	(.57 dBm	A
				1					2.47983	467 GHz	
0				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\		ndB		20	.00 dB	
]	\ \	\setminus	BW ▽ _{T1}	86 [T1]	5.73146	293 kHz	
-10			ſ	\sim		J	\		2.47954		
			<u>T</u>								
-20			~				W		2.48040	581 GHz	1 200
IMAX		_									1M2
-30		$\overline{}$									
		لر						4			
-40		$\sqrt{}$							M .		
-50	·								W.	harly	
-60										- ***	
-70											
-80											
-90											
Center 2	.48 GHz	Z		300	kHz/				Spa	an 3 MHz	
Date: 18	3.JUL.2	022 10	:54:05								

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Product:		Speake	er box / Pa	ırlante		Tes	st Mode:		Keep tran	smitting	
Mode			ng Transm			Tes	t Voltage		120	V~	
Temperature			24 deg. C,				umidity		56% RH		
Test Result:			Pass				etector		PI	ζ	
0dB Bandwidth		1	.226MHz								
^	Marker 1 [T1 ndB]				RI	ЗW	30 k	Hz RI	7 Att	20 dB	
Ref Lvl		ndB	20.	.00 dB	VI	B₩	100 k	Hz			
10 dBm		BW 1	.226452	291 MHz	SI	TW	8.5 m	s Uı	nit	dBm	L
10							v ₁	[T1]	-1	.33 dBm	
				1					2.40183	467 GHz	
0				<u> </u>			ndH	i	20	.00 dB	
					lma.		$_{ m DW}$	[T1]	1.22645	291 MHz	
-10			\sim	<i></i>	-	الاس ر	~~	. [11]	2.40136		
		т	\mathcal{J}				4. A	, [T1]	-21	.41 dBm	
-20		7					· ·		2.40259	218 GHz	11
IMAX		/						4			-
-30								 			
-40	\wedge	\						W.	\mathcal{N}		
-50	j								har.	my	
-60											
-70											
- 70		_									
-80											
								· · ·			
-90											
Center 2.	402 GI	Hz		300	kHz/				Spa	n 3 MHz	

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I/4DQPSK	Speaker box / Parlante							ı				
Product:							est Mode:	-		nsmitting		
Mode			g Transmi	tting			st Voltage	;		0V~		
Temperature		2	4 deg. C,				Humidity		56% RH			
Test Result:			Pass]	Detector		PK			
20dB Bandwidth	1.257MHz											
Ŕ	Marker 1 [T1 ndB] ndB 20.00 dB					BW	30 k	Hz R	F Att	20 dB		
Ref Lvl						BW	100 k	Hz				
10 dBm	BW 1.25651303 MHz			S	WT	8.5 m	s U	nit	dBn	n		
10							v ₁	[T1]	(.12 dBm	A	
				1					2.44083	467 GHz	A	
0				\\ \			ndE	3	20	.00 dB		
			^		lun,	~~(BW V⊤		1.25651	303 MHz		
-10			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V		 	\sim	[T1]	2.44035	.21 dBm 972 GHz		
	T.7						∇T_{\Box}	2[T1]				
-20							<u> </u>	<u> </u>	2.44161	623 GHz		
1MAX											1M	
-30												
-40	M	W						m,	~/ ₁			
-50	ν [~]								~~~			
-60												
7.0												
-70												
8.0												
-80												
-90 Center 2	.441 GF	łz		300	kHz/				Spa	n 3 MHz	8	
	3.JUL.2		:05:51						_			

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/4DQPSK		Speaker box / Parlante					3 5 1		W 4 : 44 :		
Product:							est Mode:			ansmitting	
Mode			g Transmi	tting		+	est Voltage	;		0V~	
Temperature		2	4 deg. C,			+	Humidity			% RH	
Test Result:			Pass				Detector]	PK	
0dB Bandwidth	1.251MHz										
Ŕ	Marker 1 [T1 ndB]					RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl	ndB 20.00 dB				7	/BW	100 k				
10 dBm	BW 1.25050100 MHz			S	SWT	8.5 m	s U	nit	dBm	1	
10							v ₁	[T1]	(.59 dBm	A
				1					2.47983	467 GHz	-
0				/\ /			ndI	3	20	.00 dB	
			^		\ldots	~	$\bigwedge_{\mathbf{V}} \sum_{\mathbf{T}}^{\mathbf{BW}}$	5-2.3	1.25050		
-10			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	, · · · ·		\u	<u> </u>	[T1]	2 47936	.84 dBm	
		T.J	\sim				V 122[2.47936573 GF [T1] -19.42 dF		
-20								<u> </u>	2.48061	623 GHz	
1MAX											1M2
-30											
-40	\\\\\\\\\\\\\\\\\							Juny .	M		
-50	***										
-60											
-70											
-80											
-90											
Center 2	2.48 GH	z		300	kHz/	,			Spa	ın 3 MHz	•
ate: 18	8.JUL.2		:01:55								

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10.0 FCC ID Label

FCC ID: 2A6R4-MS1600B

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





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Outside View



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Outside View



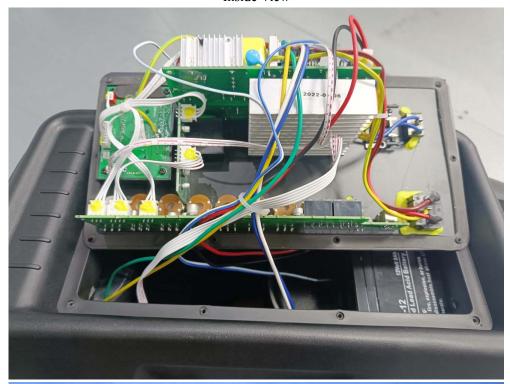
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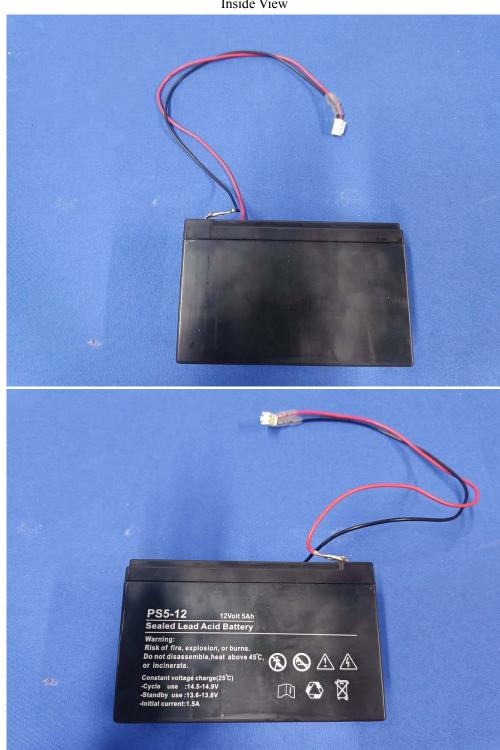
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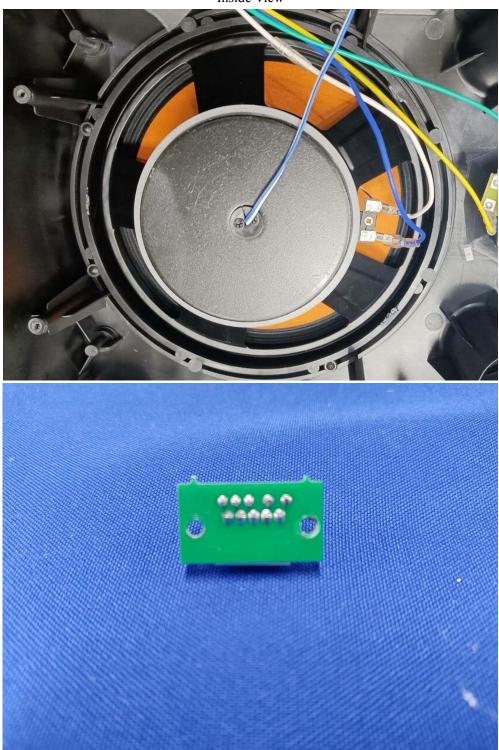
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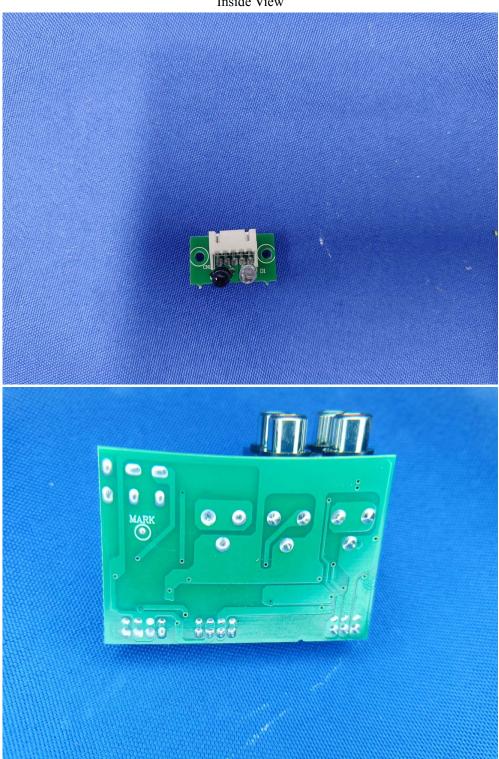
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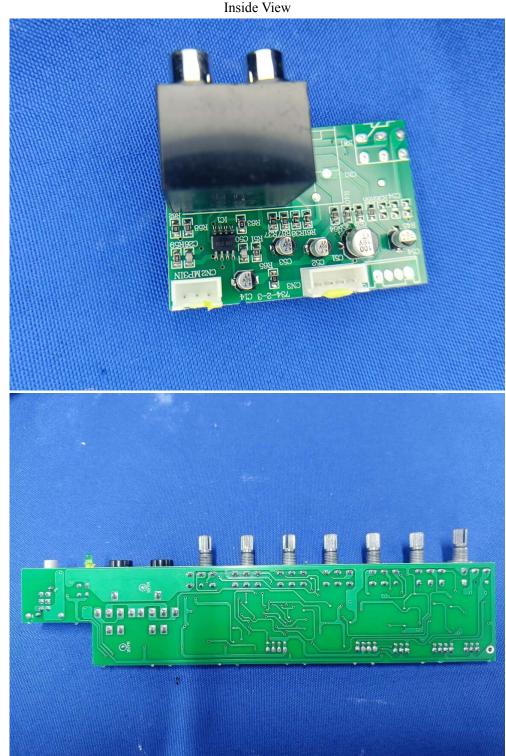
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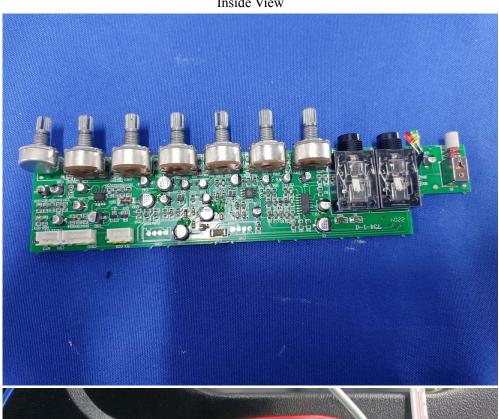
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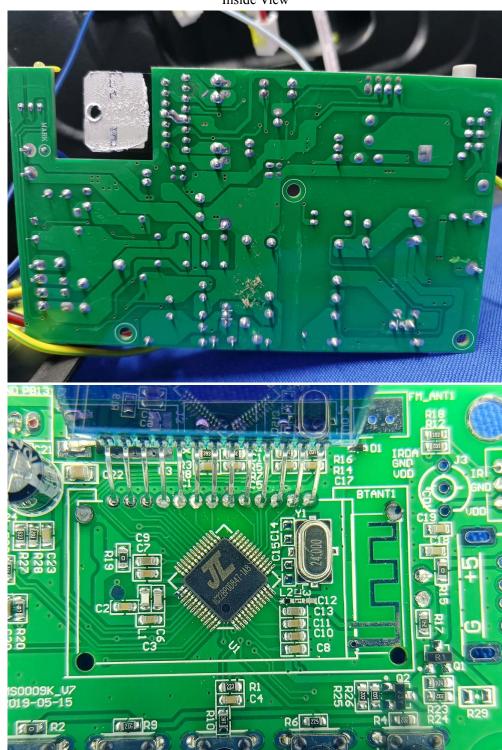
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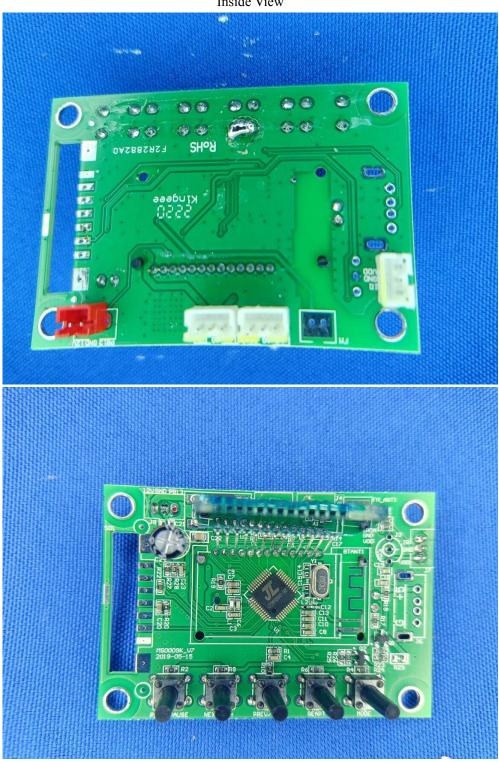
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