

RF Test Report

For

Applicant Name:

Shenzhen Semetor Electronics Co., LTD

Address:

EUT Name:

Brand Name:

B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community, pinghu street, longgang district, shenzhen city, guangdong MUTI-FUNCTION WIRELESS CHARGER



S05

Model Number:

Issued By

Company Name: Address:	BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Report Number [.]	BTF240313R00302

Report Number: Test Standards: BTF240313R00302 47 CFR Part 15.247

Test Conclusion: FCC ID: Test Date: Date of Issue: Pass 2AYRH-S05 2024-03-15 to 2024-03-27 2024-03-27

Prepared By:

Ale the

Ace Xie / Project

Ryan.CJ / EMC 2024-03-27

2024-03-2

Date:

Approved By:

Date:

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

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Revision History				
Version	Issue Date	Revisions Content		
R_V0	2024-03-27	Original		

Note: Once the revision has been made, then previous versions reports are invalid.



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1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	mpany Name: BTF Testing Lab (Shenzhen) Co., Ltd.					
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China						
Phone Number: +86-0755-23146130						
Fax Number:	+86-0755-23146130					

1.2 Identification of the Responsible Testing Location

BTF Testing Lab (Shenzhen) Co., Ltd.					
F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou					
Community, Songgang Street, Bao'an District, Shenzhen, China					
+86-0755-23146130					
+86-0755-23146130					
518915					
CN1330					

1.3 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2 **Product Information**

2.1 Application Information

2.1 Application into			
Company Name:	Shenzhen Semetor Electronics Co., LTD		
Address:	B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community,		
Address.	pinghu street, longgang district, shenzhen city, guangdong		
2.2 Manufacturer In	formation		
Company Name:	Shenzhen Semetor Electronics Co., LTD		
Address:	B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community,		
Address.	pinghu street, longgang district, shenzhen city, guangdong		
2.3 Factory Informa	tion		
Company Name:	Shenzhen Semetor Electronics Co., LTD		
Address:	B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community,		
Address.	pinghu street, longgang district, shenzhen city, guangdong		
2.4 General Descrip	otion of Equipment under Test (EUT)		
EUT Name:	MUTI-FUNCTION WIRELESS CHARGER		
Test Model Number:	S05		
2.5 Technical Inform	nation		
Power Supply:	DC 9V From Adapter		
Operation Frequency:	2402MHz to 2480MHz		
Number of Channels:	40		
Modulation Type:	GFSK		
Antenna Type:	Onboard Antenna		
Antenna Gain [#] :	-0.58 dBi		
Note:			
	ed by the applicant, and the laboratory will not be responsible for the accumulated overs the information provided by the applicant.		
Bluetooth Version:	5.1		



3 **Summary of Test Results**

3.1 **Test Standards**

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

3.2 Uncertainty of Test

Item	Measurement Uncertainty		
Conducted Emission (150 kHz-30 MHz)	±2.64dB		
Occupied Bandwidth	±69kHz		
Transmitter Power, Conducted	±0.87dB		
Power Spectral Density	±0.69dB		
Conducted Spurious Emissions	±0.95dB		
Radiated Spurious Emissions (above 1GHz)	1-6GHz: ±3.94dB 6-18GHz: ±4.16dB		
Radiated Spurious Emissions (30M - 1GHz)	±4.12dB		

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Summary of Test Result 3.3

Item	Standard	Requirement	Result	
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass	
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass	
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass	
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass	
Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass	
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass	
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass	
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass	
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass	

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4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	/	/	
Coaxial Switcher	SCHWARZBECK	CX210	CX210	/	/	
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15	
LISN	AFJ	LS16/110VAC	16010020076	2023-11-26	2024-11-15	
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2023-11-15	2024-11-14	

Occupied Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	1	1		
RF Sensor Unit	Techy	TR1029-2	/	/	/		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	1	/		
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15		
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023-11-16	2024-11-15		



Band edge emissions Emissions in frequen		GHz)			
Emissions in frequen	cy bands (above 1	GHz)	Laura da ma Na	O L D L L	
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	1	1
Preamplifier	SCHWARZBECK	BBV9744	00246	1	/
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	1	1
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	1	/
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	1	/
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	1	/
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	1	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	1	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	/	/
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	1	1
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	1	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12



4.2 Test Auxiliary Equipment

Title	Manufacturer	Model No.	Serial No.
Power Adapter	HUAWEI	HW-110600C02	JH72L5N5910164
USB Cable	/	/	/

4.3 Test Modes

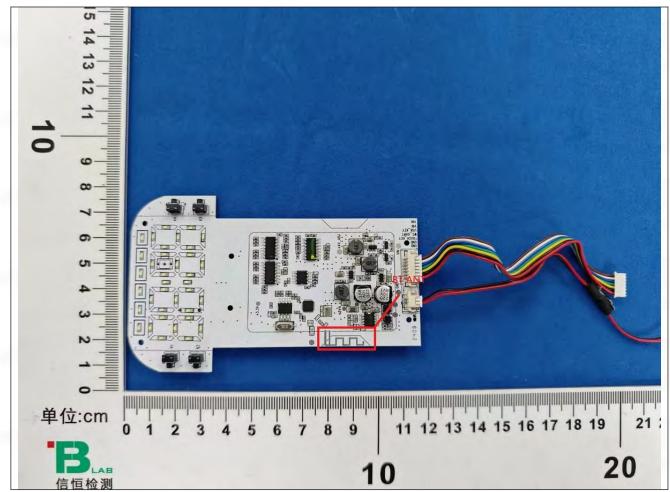
No.	Test Modes	Description
TM1	TX mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation.



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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.
5.1.1 Conclusion:	





6 Radio Spectrum Matter Test Results (RF)

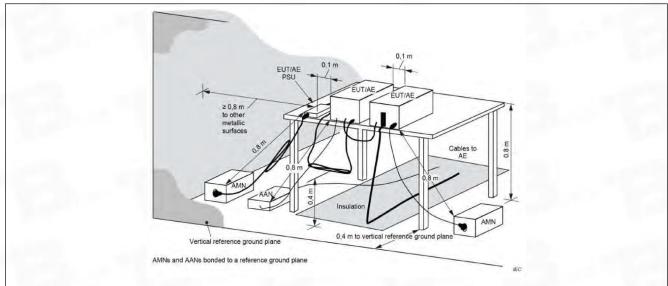
6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).				
Test Method:	ANSI C63.10-2013 section 6.2 ANSI C63.10-2020 section 6.2				
	Frequency of emission (MHz)	Conducted limit (dBµV)			
		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5	56	46		
	5-30	60	50		
	*Decreases with the logarithm of the frequency.				
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices				
	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices				

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.2 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

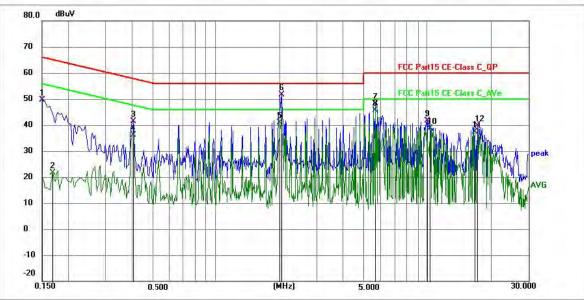
6.1.2 Test Setup Diagram:





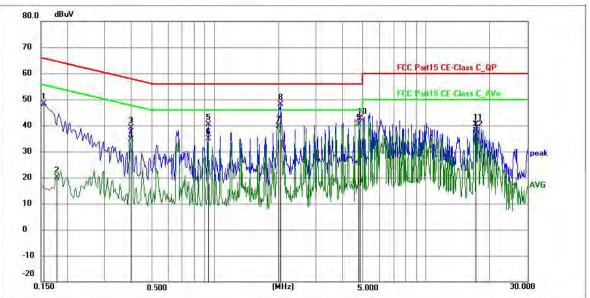
6.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	39.25	10.45	49.70	66.00	-16.30	QP	Р	
2	0.1680	11.06	10.49	21.55	55.06	-33.51	AVG	P	
3	0.4020	30.74	10.57	41.31	57.81	-16.50	QP	P	
4	0.4020	25.63	10.57	36.20	47.81	-11.61	AVG	P	
5	2.0085	30.10	10.68	40.78	46.00	-5.22	AVG	P	
6	2.0400	40.96	10.68	51.64	56.00	-4.36	QP	P	
7	5.6310	37.38	10.76	48.14	60.00	-11.86	QP	P	
8 *	5.6310	34.97	10.76	45.73	50.00	-4.27	AVG	P	
9	10.0185	30.89	10.85	41.74	60.00	-18.26	QP	P	
10	10.3290	27.79	10.86	38.65	50.00	-11.35	AVG	P	
11	16.7595	26.49	10.99	37.48	50.00	-12.52	AVG	P	
12	17.2680	28.67	11.00	39.67	60.00	-20.33	QP	P	





TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	37.87	10.46	48.33	65.75	-17.42	QP	Р	
2	0.1770	9.72	10.51	20.23	54.63	-34.40	AVG	P	
3	0.3975	28.54	10.57	39.11	57.91	-18.80	QP	P	
4	0.3975	24.14	10.57	34.71	47.91	-13.20	AVG	P	
5	0.9285	29.72	10.67	40.39	56.00	-15.61	QP	P	
6	0.9285	24.31	10.67	34.98	46.00	-11.02	AVG	P	
7	2.0085	28.98	10.68	39.66	46.00	-6.34	AVG	P	
8	2.0445	37.42	10.68	48.10	56.00	-7.90	QP	P	
9 *	4.7670	29.60	10.72	40.32	46.00	-5.68	AVG	P	
10	4.8255	31.79	10.72	42.51	56.00	-13.49	QP	P	
11	17.2724	29.31	10.95	40.26	60.00	-19.74	QP	P	
12	17.2724	26.83	10.95	37.78	50.00	-12.22	AVG	P	



Occupied Bandwidth 6.2

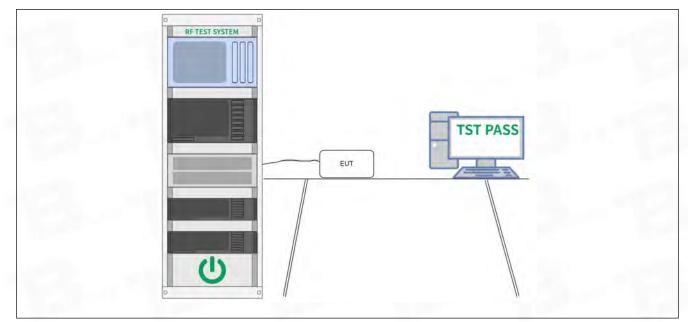
Test Requirement:	47 CFR 15.247(a)(2)
Test Method:	ANSI C63.10-2013, section 11.8 ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW >= [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. 11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that is not influenced by any intermediate power nulls in the fundamental emission that influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.2.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.4 °C	
Humidity:	52 %	
Atmospheric Pressure:	1010 mbar	
6.2.2 Test Setup Diagram:		

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6.2.3 Test Data:

Please Refer to Appendix for Details.



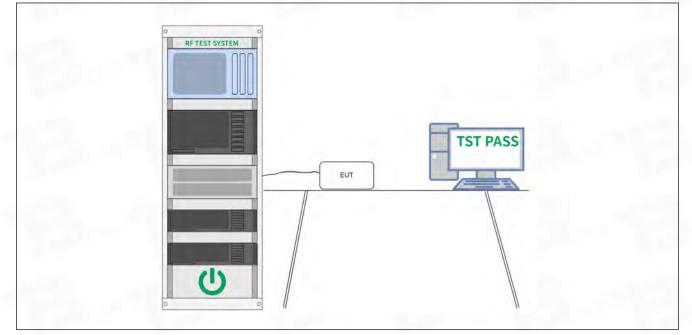
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Method:	ANSI C63.10-2013, section 11.9.1 ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

6.3.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.4 °C	
Humidity:	52 %	
Atmospheric Pressure:	1010 mbar	

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.



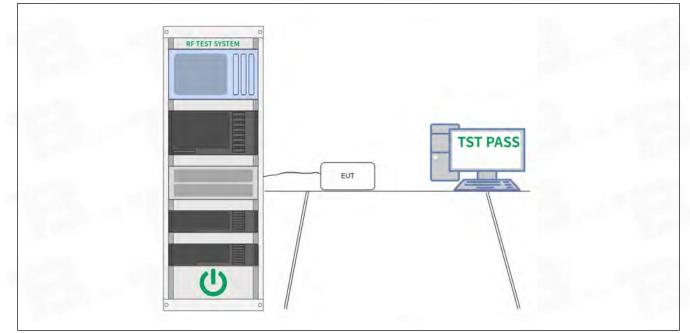
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Method:	ANSI C63.10-2013, section 11.10 ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emissionANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.4 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data: Please Refer to Appendix for Details.



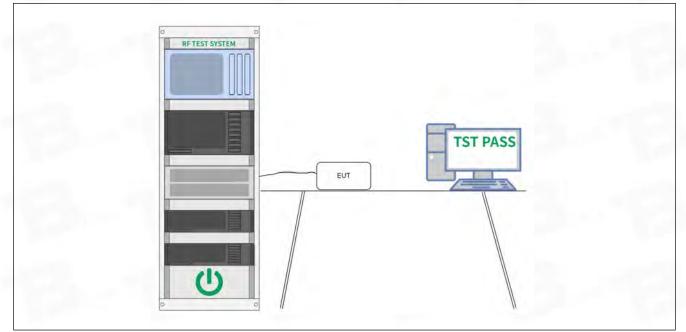
6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205				
Test Method:	ANSI C63.10-2013 section 11.11 ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02				
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.				
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3 ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3				

6.5.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.4 °C	
Humidity:	52 %	
Atmospheric Pressure:	1010 mbar	

6.5.2 Test Setup Diagram:



6.5.3 Test Data: Please Refer to Appendix for Details.



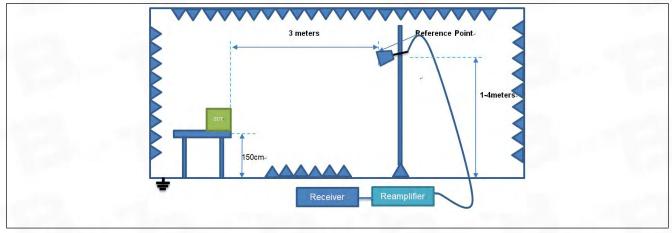
Band edge emissions (Radiated) 6.6

Test Requirement:	restricted bands, as defi	(d), In addition, radiated emission ned in § 15.205(a), must also co I in § 15.209(a)(see § 15.205(c)	omply with the radiated
Test Method:	ANSI C63.10-2013 sect ANSI C63.10-2020 sect KDB 558074 D01 15.24		aa
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960 Above 960	200 ** 500	3
Test Limit:	** Except as provided in radiators operating unde 54-72 MHz, 76-88 MHz, these frequency bands i 15.231 and 15.241. In the emission table ab The emission limits show employing a CISPR qua 110–490 kHz and above	paragraph (g), fundamental em er this section shall not be locate 174-216 MHz or 470-806 MHz. s permitted under other sections ove, the tighter limit applies at th wn in the above table are based si-peak detector except for the f e 1000 MHz. Radiated emission nents employing an average det	issions from intentional ed in the frequency bands However, operation within s of this part, e.g., §§ ne band edges. on measurements frequency bands 9–90 kHz, limits in these three bands
Procedure:	ANSI C63.10-2013 sect ANSI C63.10-2020 sect		

6.6.1 E.U.T. Operation:

Operating Environment:		
Temperature:	23.8 °C	
Humidity:	55 %	
Atmospheric Pressure:	1010 mbar	

6.6.2 Test Setup Diagram:



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6.6.3 Test Data:

Note: All the mode have been tested, and only the worst case of mode are in the report TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	65.37	-18.02	47.35	74.00	-26.65	peak	Р
2 *	2390.000	65.36	-17.98	47.38	74.00	-26.62	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	65.67	-18.02	47.65	74.00	-26.35	peak	Р
2 *	2390.000	66.29	-17.98	48.31	74.00	-25.69	peak	Р

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	67.06	-17.95	49.11	74.00	-24.89	peak	Р
2	2500.000	66.27	-17.94	48.33	74.00	-25.67	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	66.19	-17.95	48.24	74.00	-25.76	peak	Р
2	2500.000	65.90	-17.94	47.96	74.00	-26.04	peak	Р



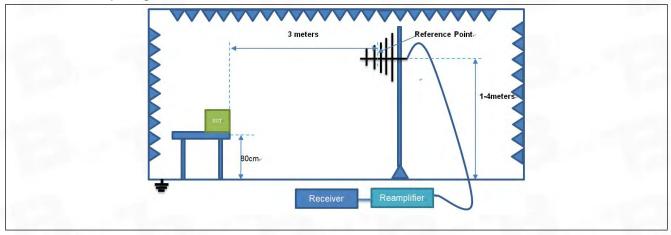
Emissions in frequency bands (below 1GHz) 6.7

Test Requirement:	restricted bands, as defi	(d), In addition, radiated emission ned in § 15.205(a), must also co l in § 15.209(a)(see § 15.205(c)	omply with the radiated	
Test Method:	ANSI C63.10-2013 sect ANSI C63.10-2020 sect KDB 558074 D01 15.24		a	
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	
	0.009-0.490	2400/F(kHz)	300	
	0.490-1.705	24000/F(kHz)	30	
	1.705-30.0	30	30	
	30-88	100 **	3 3 3	
	88-216	150 **		
	216-960	200 **		
Test Limit:	Above 960	500	3	
	radiators operating under 54-72 MHz, 76-88 MHz, these frequency bands in 15.231 and 15.241. In the emission table ab The emission limits show employing a CISPR quar 110–490 kHz and above	paragraph (g), fundamental em er this section shall not be locate 174-216 MHz or 470-806 MHz. s permitted under other sections ove, the tighter limit applies at the wn in the above table are based si-peak detector except for the f e 1000 MHz. Radiated emission nents employing an average det	ed in the frequency bands . However, operation within s of this part, e.g., §§ he band edges. l on measurements frequency bands 9–90 kHz, limits in these three bands	
Procedure:	ANSI C63.10-2013 sect	ion 6.6.4	Real Providence	
	ANSI C63.10-2020 sect	ion 6.6.4	Summer Street	

6.7.1 E.U.T. Operation:

Operating Environment:				
Temperature:	23.8 °C	1000		
Humidity:	55 %			
Atmospheric Pressure:	1010 mbar		1000	

6.7.2 Test Setup Diagram:

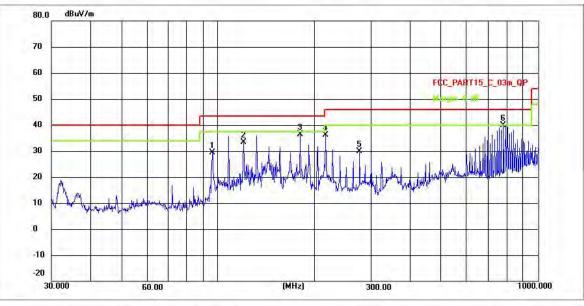


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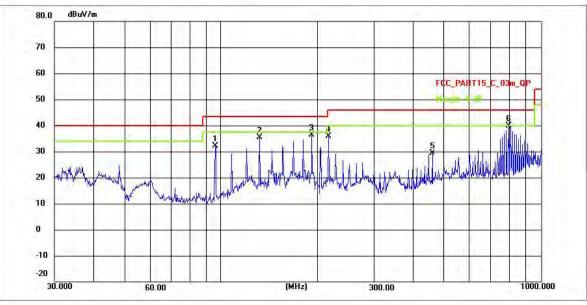
6.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	95.9302	58.26	-28.90	29.36	43.50	-14.14	peak	Р
2	120.0660	61.52	-28.05	33.47	43.50	-10.03	peak	Р
3	180.0164	63.87	-27.51	36.36	43.50	-7.14	peak	P
4	216.0240	62.81	-26.63	36.18	46.00	-9.82	peak	Р
5	276.1235	55.54	-25.63	29.91	46.00	-16.09	peak	Р
6 *	780.9748	63.73	-23.81	39.92	46.00	-6.08	peak	P





TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	95.9302	60.98	-28.90	32.08	43.50	-11.42	peak	Р
2	131.9890	63.36	-27.95	35.41	43.50	-8.09	peak	Р
3	192.0815	63.69	-27.41	36.28	43.50	-7.22	peak	Р
4	216.0240	62.48	-26.63	35.85	46.00	-10.15	peak	Р
5	456.7058	51.43	-22.13	29.30	46.00	-16.70	peak	Р
6 *	793.3960	63.58	-23.75	39.83	46.00	-6.17	peak	P



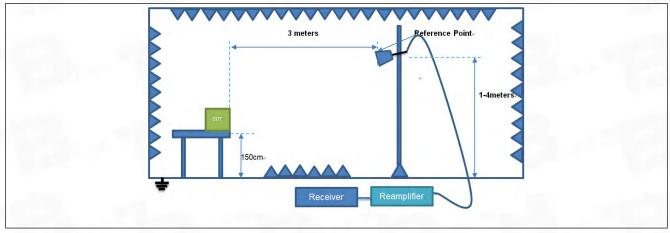
Emissions in frequency bands (above 1GHz) 6.8

Test Requirement:		issions which fall in the restricte mply with the radiated emission (c)).`	•
Test Method:	ANSI C63.10-2013 sect ANSI C63.10-2020 sect KDB 558074 D01 15.24		aa
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
Test Limit:	Above 960	500	3
	radiators operating under 54-72 MHz, 76-88 MHz, these frequency bands in 15.231 and 15.241. In the emission table ab The emission limits show employing a CISPR quar 110–490 kHz and above	a paragraph (g), fundamental em er this section shall not be locate 174-216 MHz or 470-806 MHz. is permitted under other sections ove, the tighter limit applies at th wn in the above table are based isi-peak detector except for the f e 1000 MHz. Radiated emission nents employing an average det	ed in the frequency bands However, operation within s of this part, e.g., §§ he band edges. on measurements frequency bands 9–90 kHz, limits in these three bands
Procedure:	ANSI C63.10-2013 sect	ion 6.6.4	1000
	ANSI C63.10-2020 sect	ion 6.6.4	

6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.8 °C		100
Humidity:	55 %		
Atmospheric Pressure:	1010 mbar		

6.8.2 Test Setup Diagram:



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6.8.3 Test Data:

Note: All the mode have been tested, and only the worst case of mode are in the report TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3118.528	65.03	-29.41	35.62	74.00	-38.38	peak	Р
2	3777.238	65.25	-29.03	36.22	74.00	-37.78	peak	Р
3	5820.537	67.34	-25.91	41.43	74.00	-32.57	peak	Р
4	8673.426	71.30	-24.97	46.33	74.00	-27.67	peak	Р
5	12713.444	73.19	-21.49	51.70	74.00	-22.30	peak	Р
6 *	17018.458	72.35	-18.21	54.14	74.00	-19.86	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3218.342	66.33	-29.32	37.01	74.00	-36.99	peak	Р
2	3992.781	66.94	-29.01	37.93	74.00	-36.07	peak	Р
3	5763.617	69.74	-26.09	43.65	74.00	-30.35	peak	Р
4	7269.315	71.81	-24.85	46.96	74.00	-27.04	peak	Р
5	8181.523	72.45	-25.45	47.00	74.00	-27.00	peak	Р
6 *	11015.436	73.10	-23.43	49.67	74.00	-24.33	peak	Р

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4370.846	68.55	-28.84	39.71	74.00	-34.29	peak	Р
2	5073.850	68.02	-27.31	40.71	74.00	-33.29	peak	Р
3	7219.064	69.36	-24.86	44.50	74.00	-29.50	peak	Р
4	7648.677	70.53	-25.01	45.52	74.00	-28.48	peak	Р
5	9599.547	71.55	-23.42	48.13	74.00	-25.87	peak	Р
6 *	12713.444	71.19	-21.49	49.70	74.00	-24.30	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4386.033	67.96	-28.84	39.12	74.00	-34.88	peak	Р
2	5504.734	68.99	-26.94	42.05	74.00	-31.95	peak	Р
3	7269.315	70.81	-24.85	45.96	74.00	-28.04	peak	Р
4	8792.056	72.29	-24.73	47.56	74.00	-26.44	peak	Р
5	9669.164	71.92	-23.57	48.35	74.00	-25.65	peak	Р
6 *	11968.178	71.23	-22.25	48.98	74.00	-25.02	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4906.552	69.37	-27.64	41.73	74.00	-32.27	peak	Р
2	6377.194	70.32	-25.37	44.95	74.00	-29.05	peak	Р
3	7832.124	72.01	-25.28	46.73	74.00	-27.27	peak	Р
4	9599.547	74.05	-23.42	50.63	74.00	-23.37	peak	Р
5	11088.909	74.50	-23.37	51.13	74.00	-22.87	peak	Р
6 *	12647.472	74.48	-21.53	52.95	74.00	-21.05	peak	Р

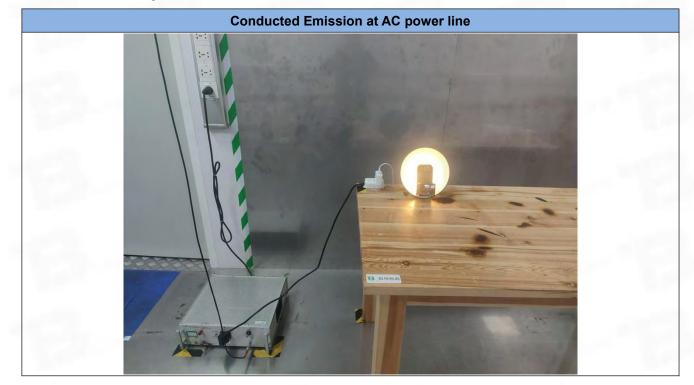
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

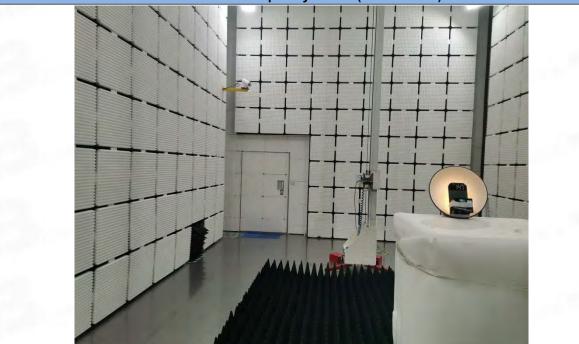
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4926.447	72.18	-27.58	44.60	74.00	-29.40	peak	Р
2	6078.440	74.21	-25.34	48.87	74.00	-25.13	peak	Р
3	6942.801	73.79	-24.98	48.81	74.00	-25.19	peak	Р
4	7721.981	76.96	-25.11	51.85	74.00	-22.15	peak	Р
5 *	9163.067	76.21	-23.95	52.26	74.00	-21.74	peak	Р
6	10247.546	76.49	-24.40	52.09	74.00	-21.91	peak	Р



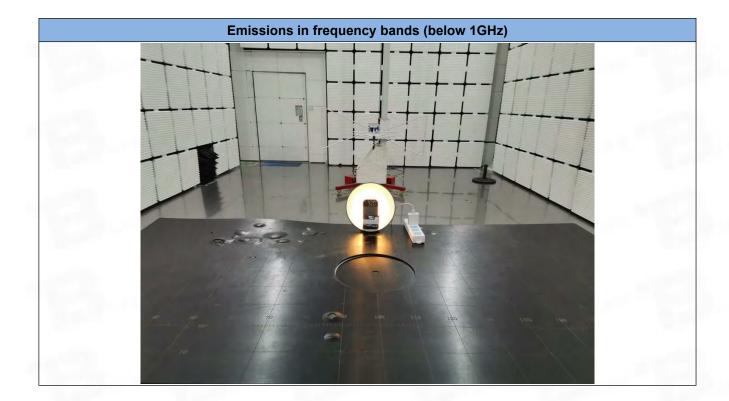
7 Test Setup Photos



Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)









10 ¹⁰

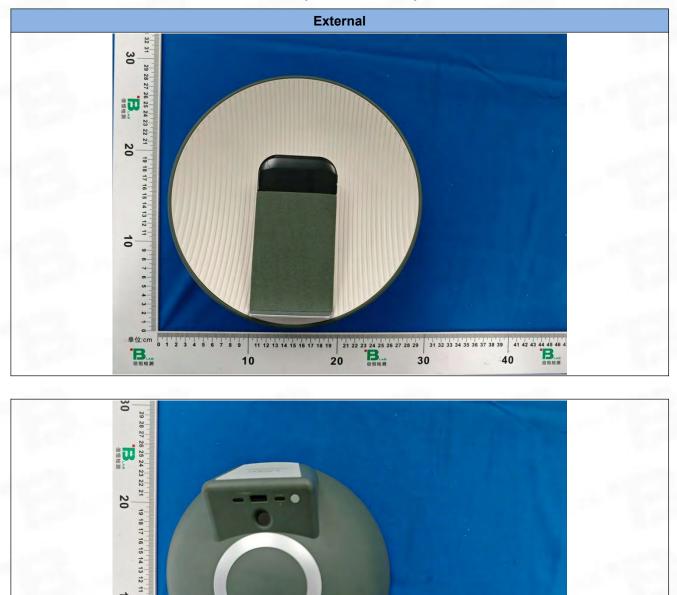
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31 32 33 34 35 36 37 38 39 41 42 43 4

40



8 EUT Constructional Details (EUT Photos)

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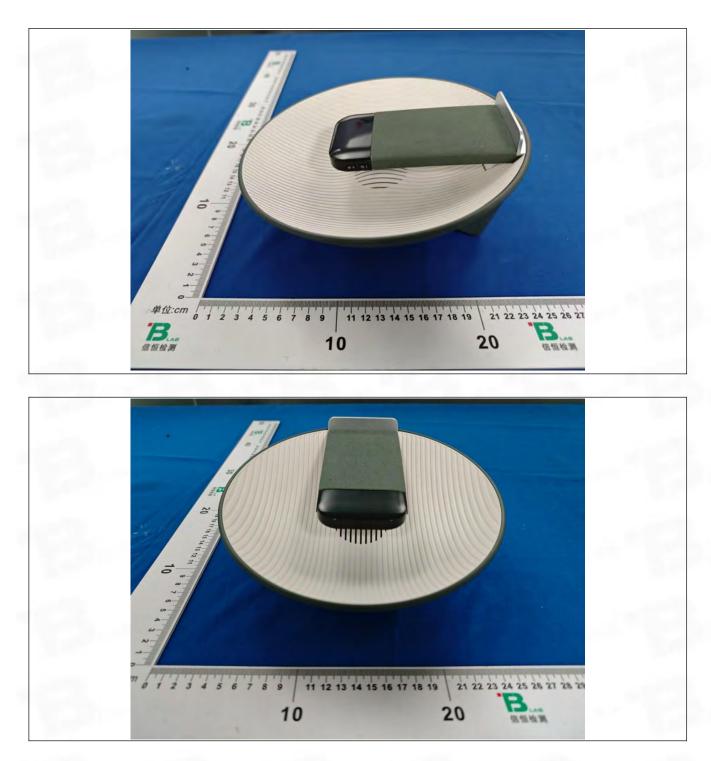
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B

30

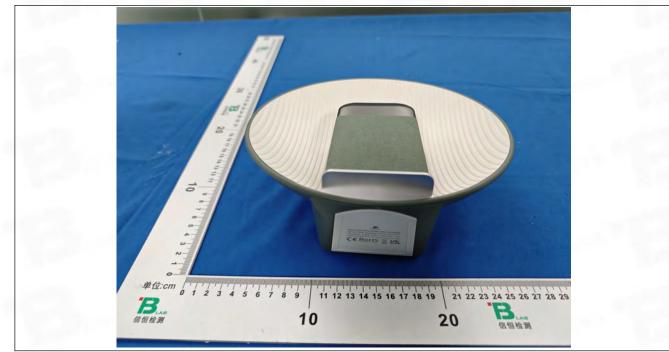




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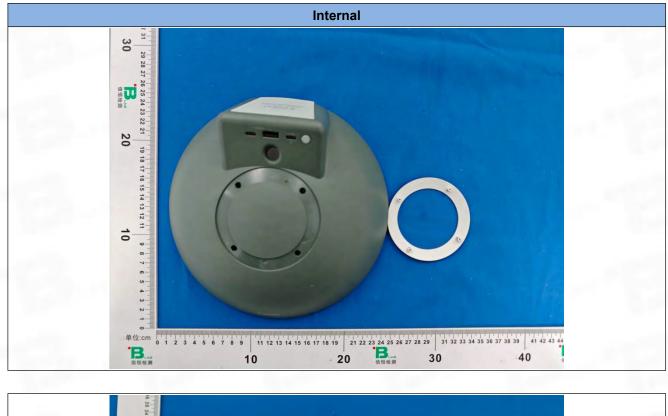






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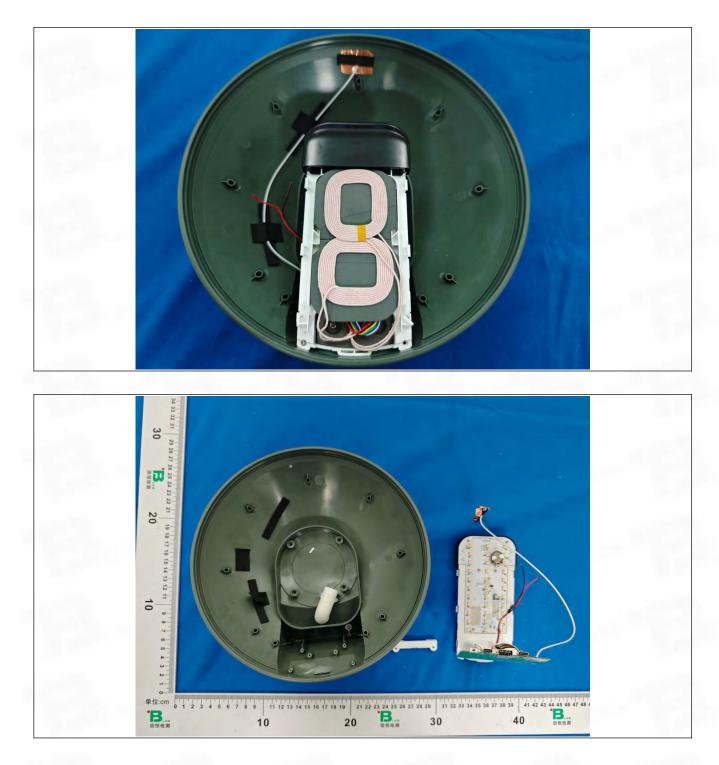
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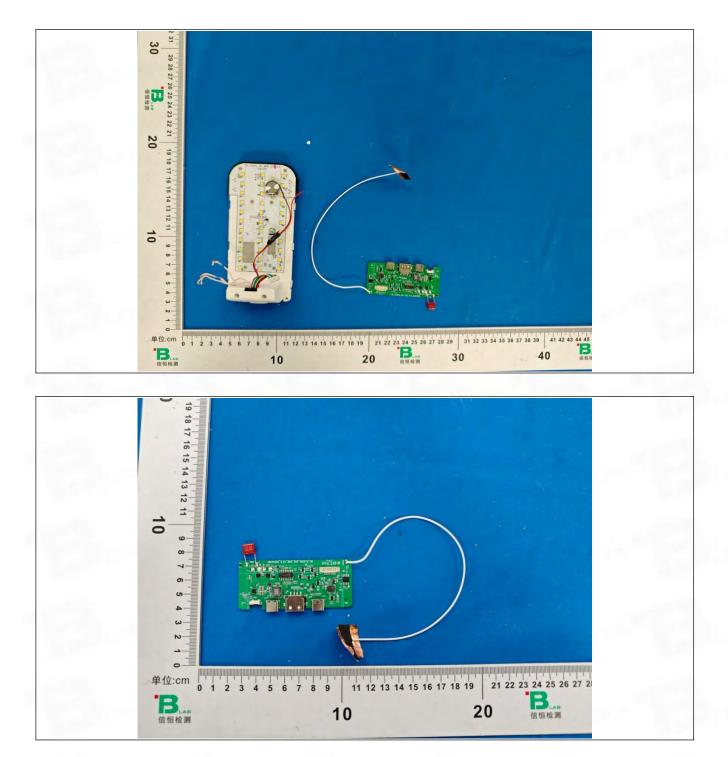
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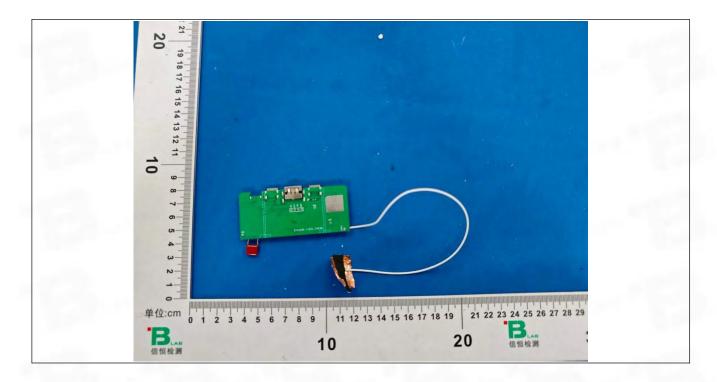
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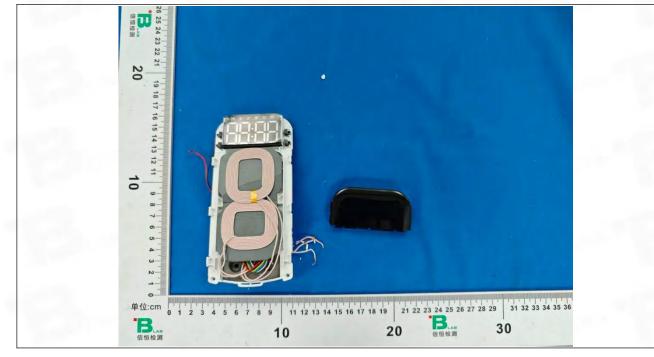




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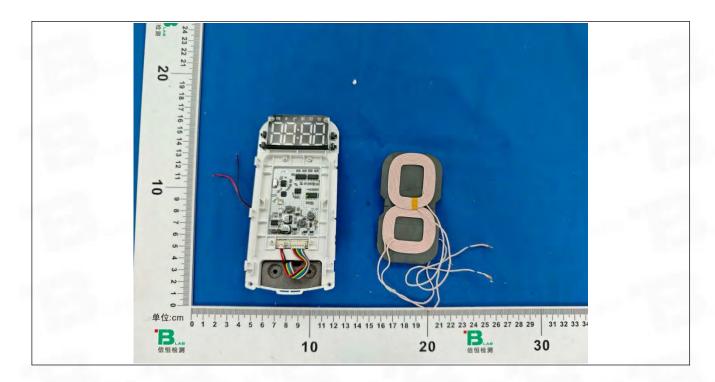


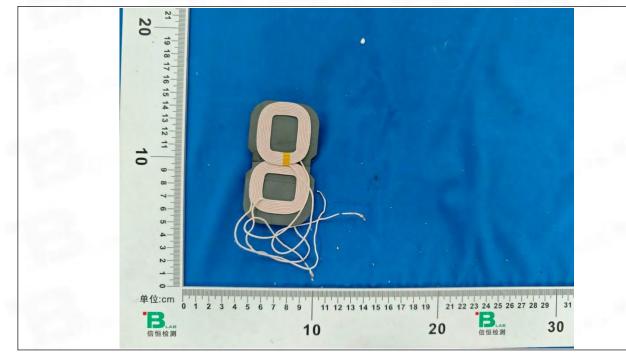


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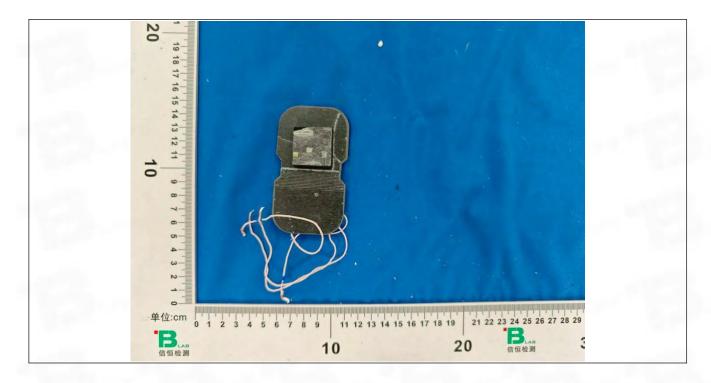
Test Report Number: BTF240313R00302

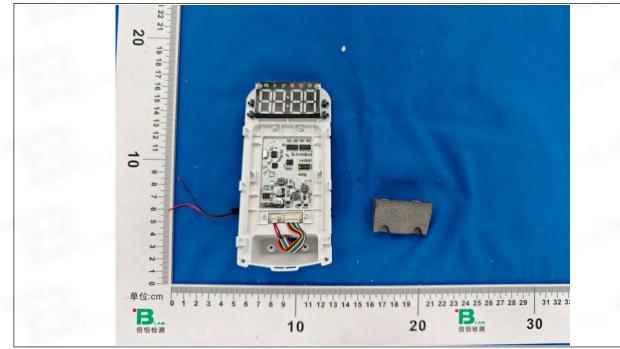




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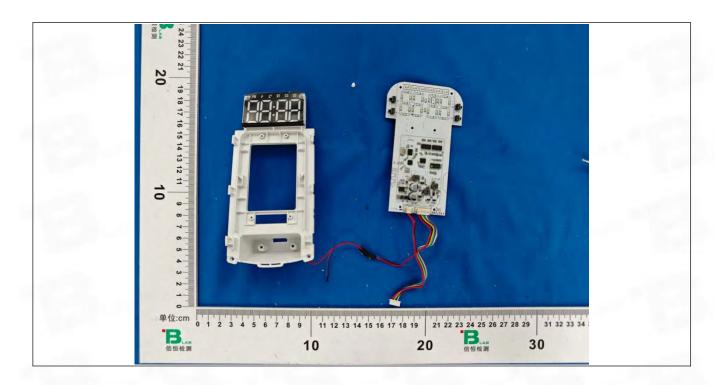


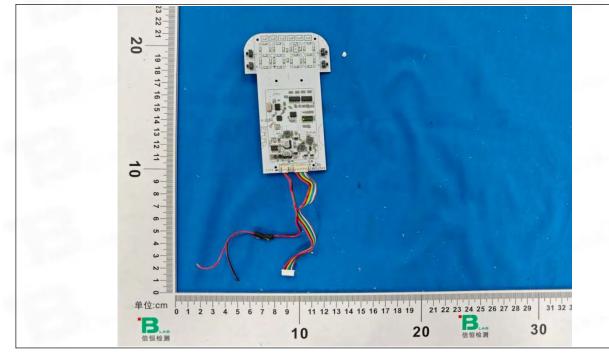


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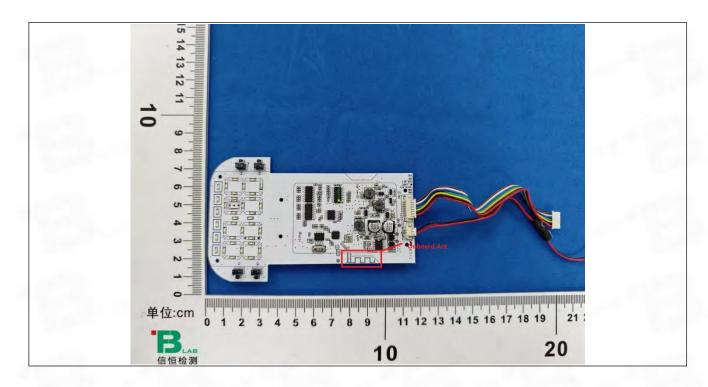
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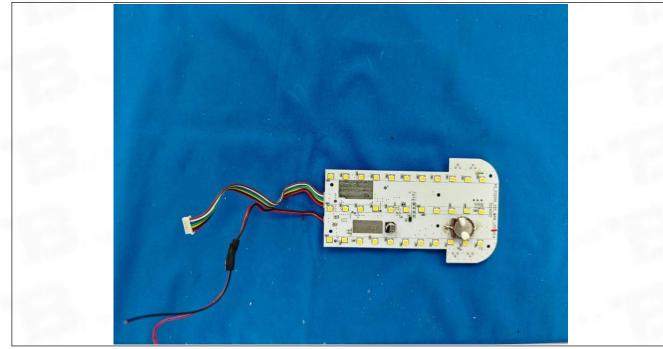




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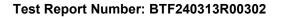




Test Report Number: BTF240313R00302

Appendix

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1. Duty Cycle

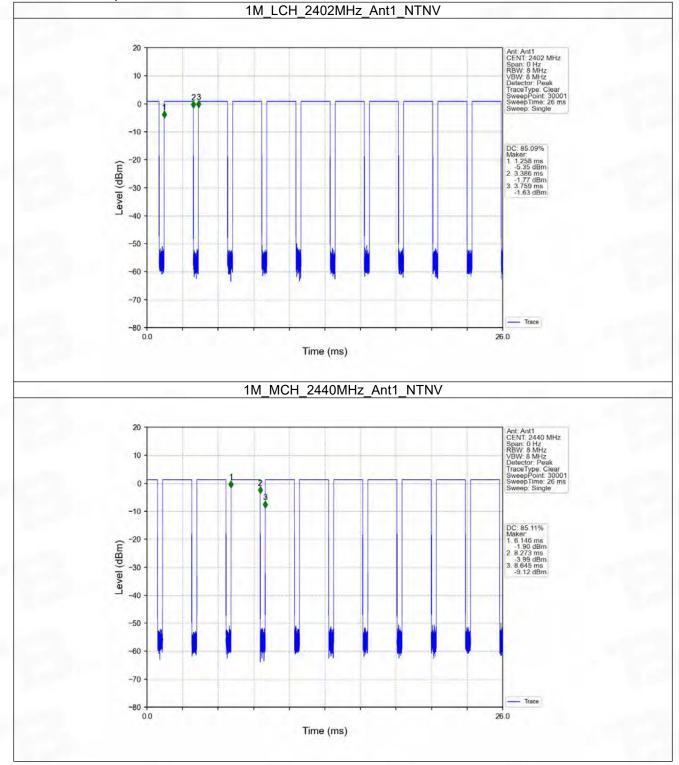
1.1 Ant1

1.1.1 Test Result

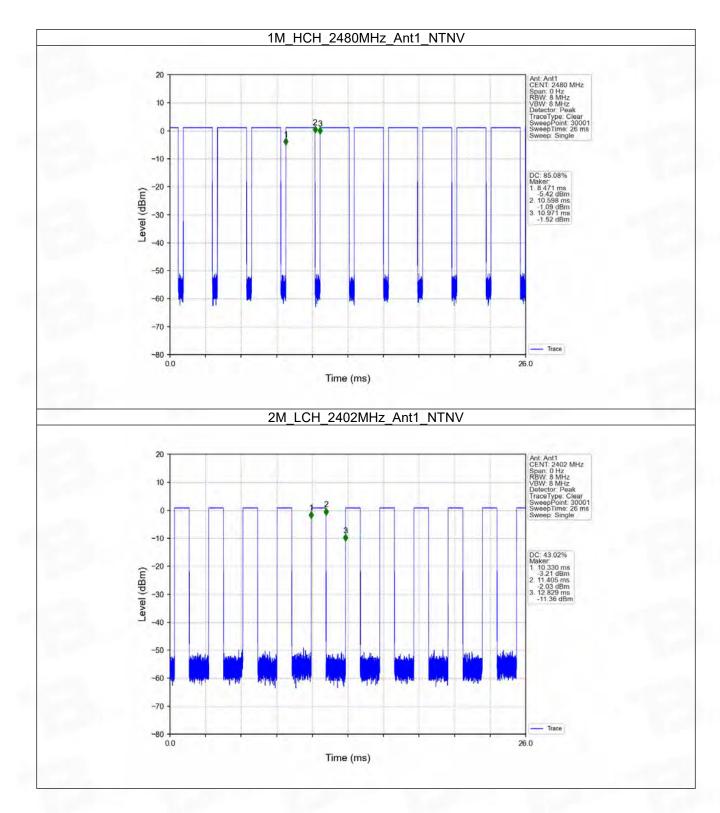
	Ant1							
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC	
Mode	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)	
		2402	2.128	2.501	85.09	0.70	0.03	
1M	SISO	2440	2.127	2.499	85.11	0.70	0.01	
L. States		2480	2.127	2.500	85.08	0.70	0.03	
		2402	1.075	2.499	43.02	3.66	0.03	
2M	SISO	2440	1.076	2.500	43.04	3.66	0.03	
		2480	1.075	2.499	43.02	3.66	0.03	



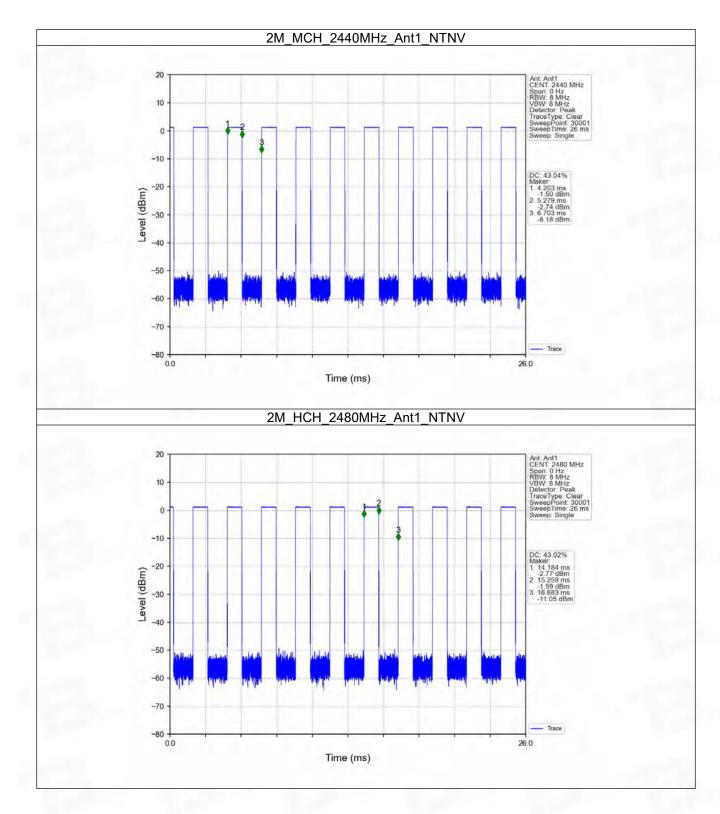
1.1.2 Test Graph











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2. Bandwidth

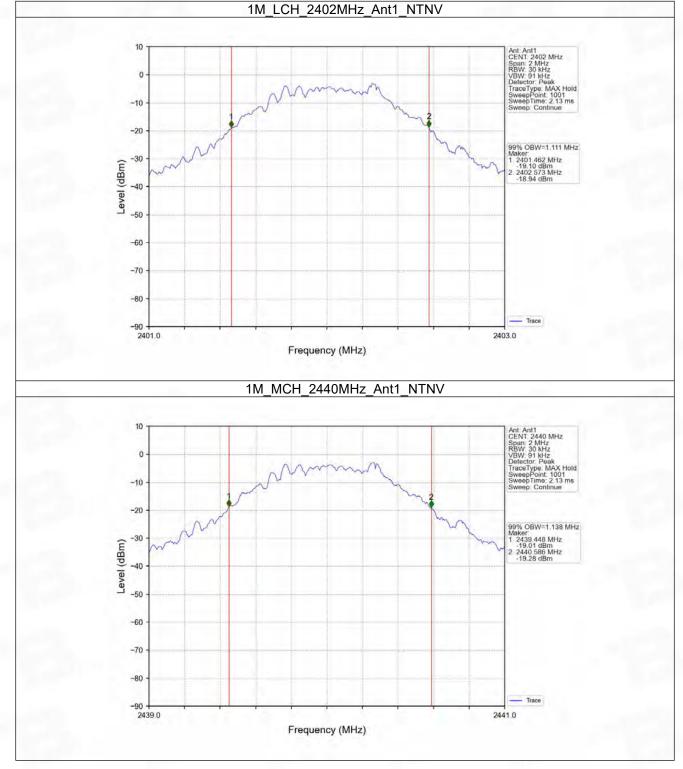
2.1 OBW

2.1.1 Test Result

Mode	ТХ	Frequency	ANT	99% Occupied B	Verdict	
Mode	Туре	(MHz)	ANT	Result	Limit	Verdici
		2402	1	1.111	/	Pass
1M	SISO	2440	1	1.138	/	Pass
1.000		2480	1	1.166	/	Pass
		2402	1	2.072	/	Pass
2M	SISO	2440	1	2.066	/	Pass
		2480	1	2.075	/	Pass

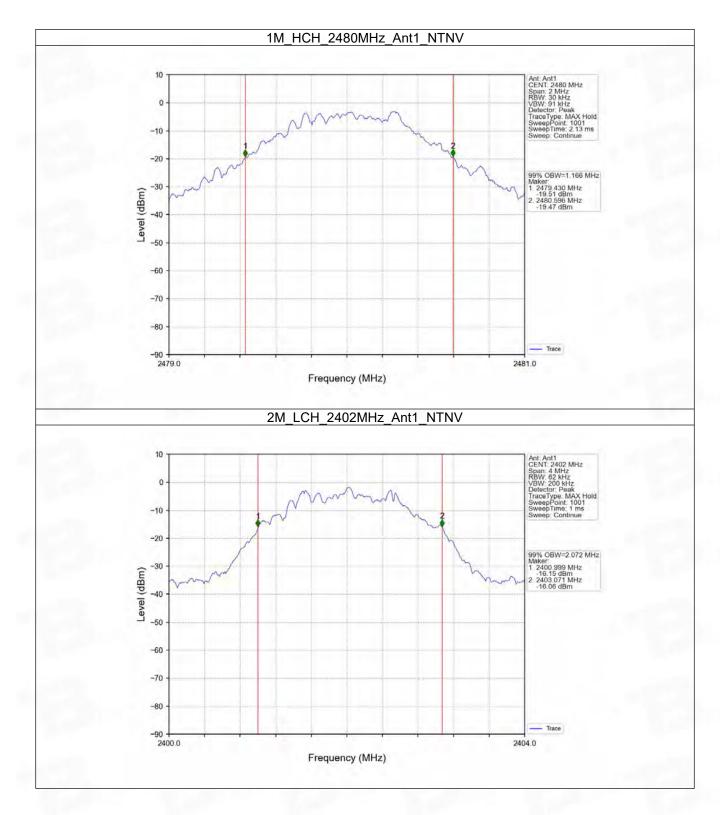


2.1.2 Test Graph



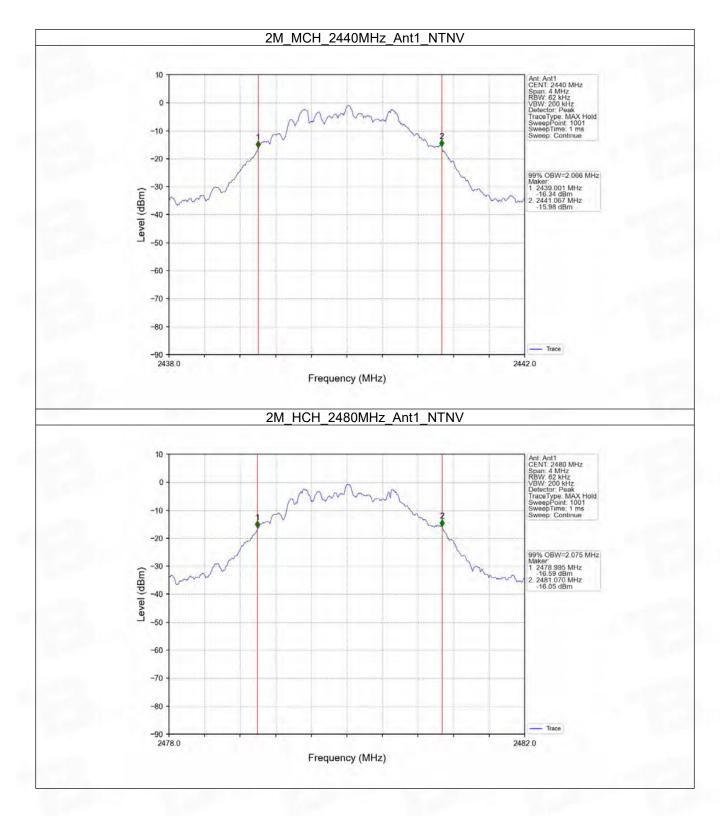
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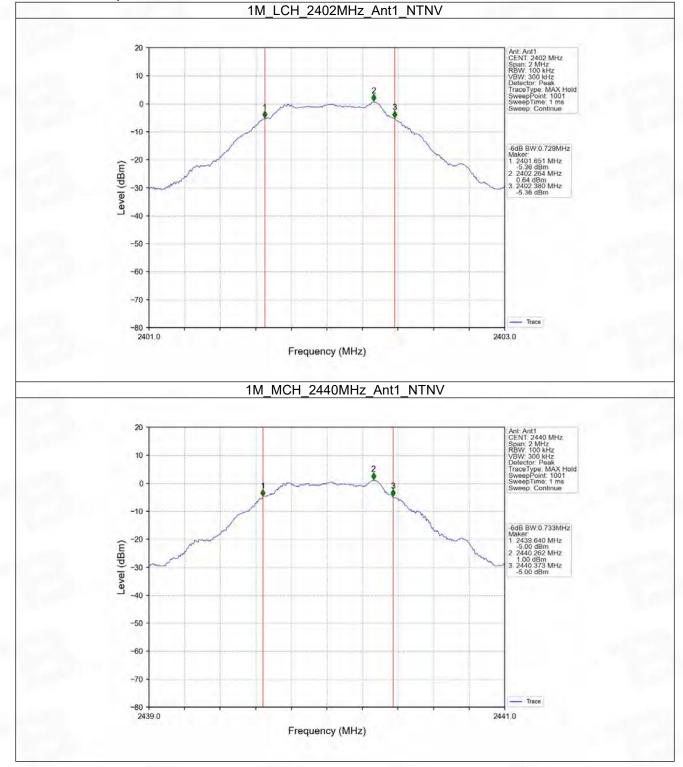
2.2 6dB BW

2.2.1 Test Result

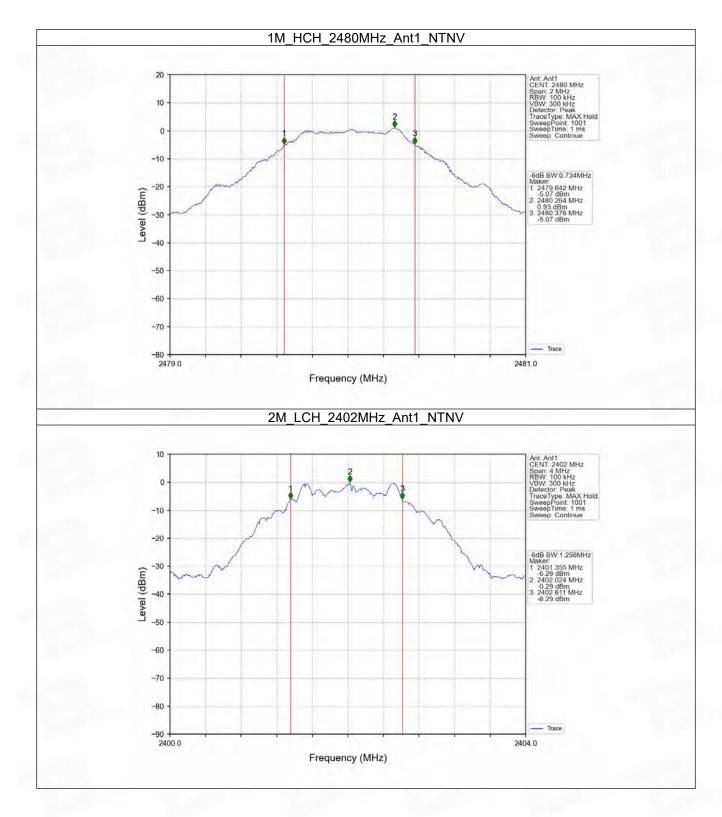
Mode	TX	Frequency	ANT	6dB Bandv	Verdict	
Wode	Туре	(MHz)	ANT	Result	Limit	Veruici
		2402	1	0.729	>=0.5	Pass
1M	SISO	2440	1	0.733	>=0.5	Pass
		2480	1	0.734	>=0.5	Pass
		2402	1	1.256	>=0.5	Pass
2M	SISO	2440	1	1.251	>=0.5	Pass
		2480	1	1.193	>=0.5	Pass



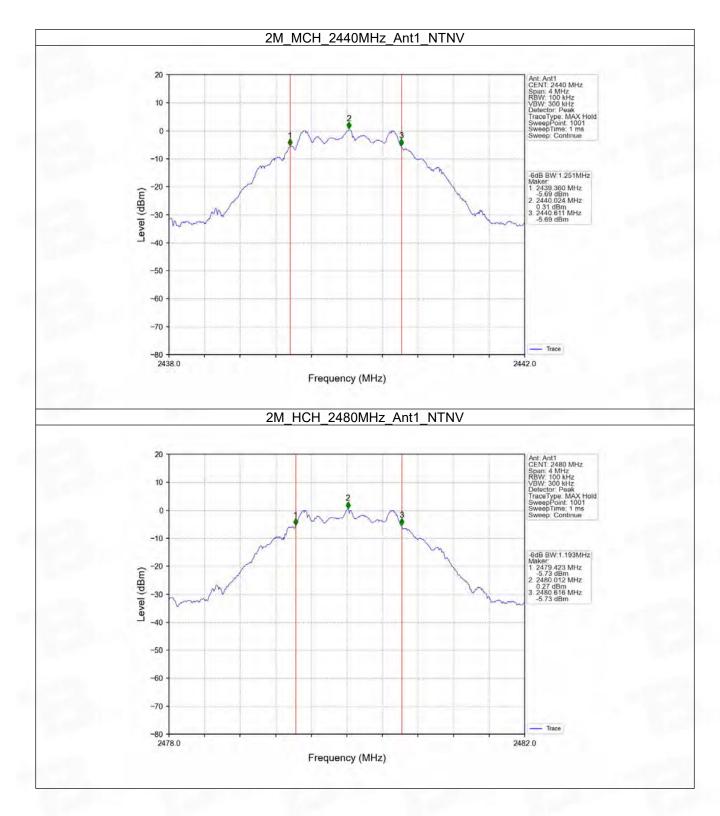
2.2.2 Test Graph











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3. Maximum Conducted Output Power

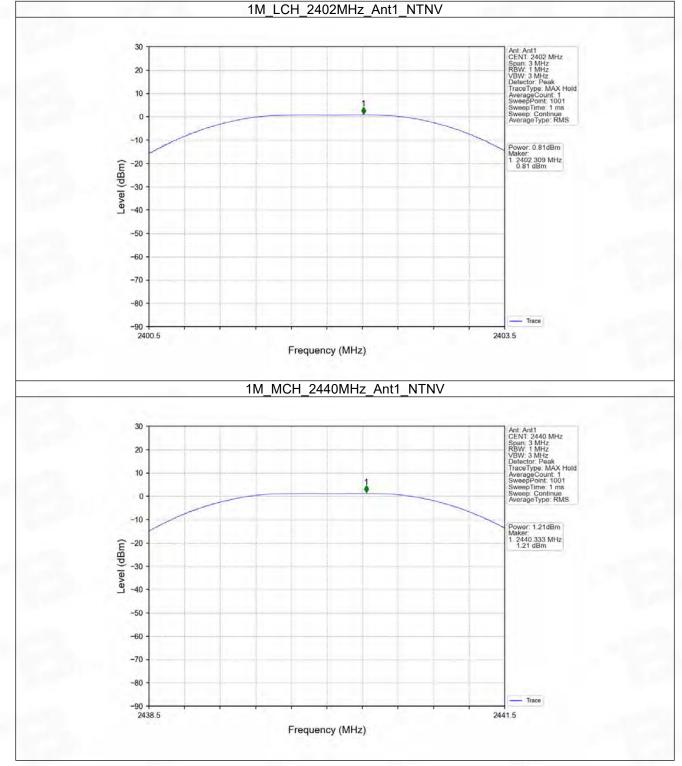
3.1 Power

3.1.1 Test Result

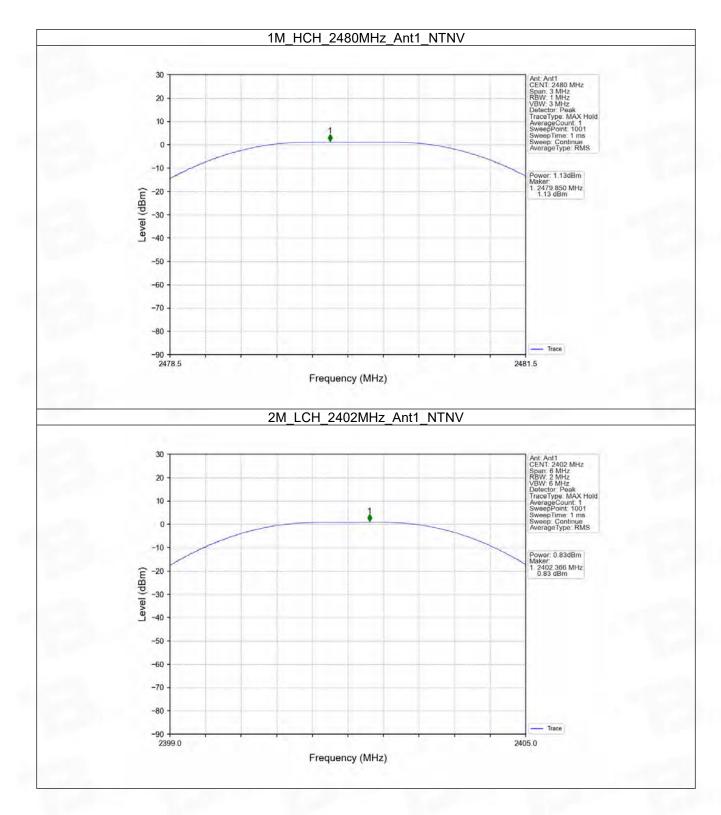
Mode	TX	Frequency	cted Output Power (dBm)	IBm) Verdiet	
Mode	Туре	(MHz)	ANT1	Limit	Verdict
		2402	0.81	<=30	Pass
1M	SISO	2440	1.21	<=30	Pass
		2480	1.13	<=30	Pass
		2402	0.83	<=30	Pass
2M	SISO	2440	1.25	<=30	Pass
		2480	1.17	<=30	Pass



3.1.2 Test Graph

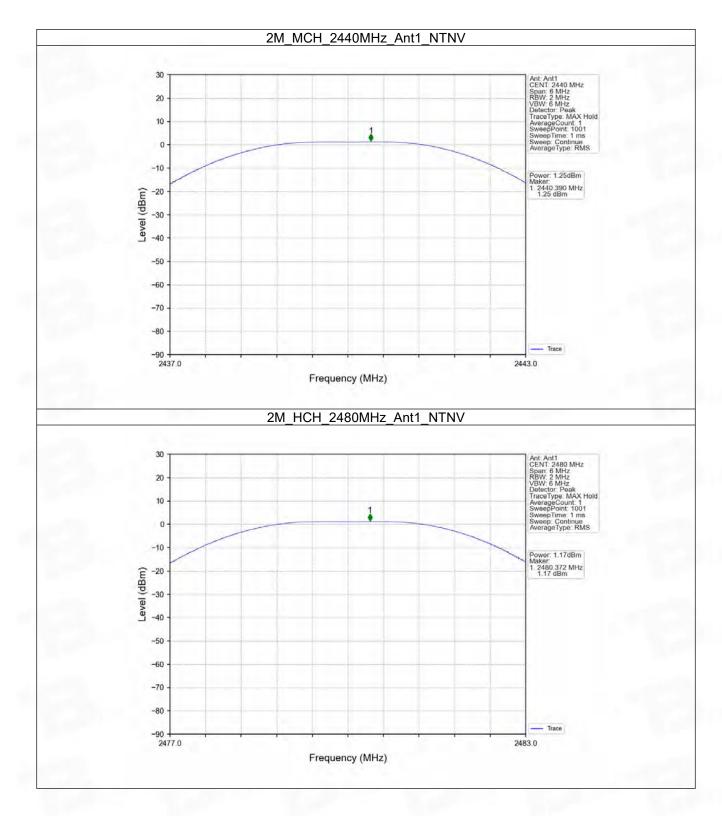






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4. Maximum Power Spectral Density

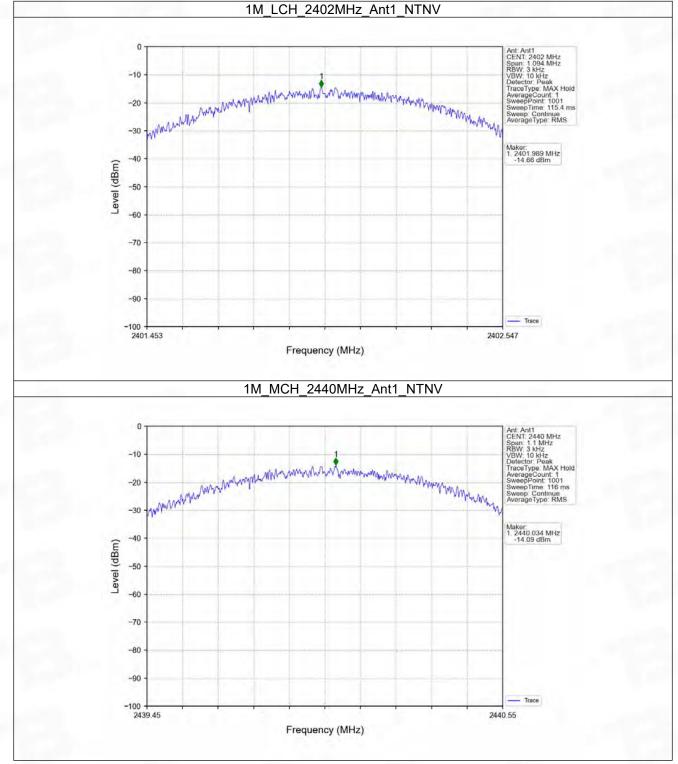
4.1 PSD

4.1.1 Test Result

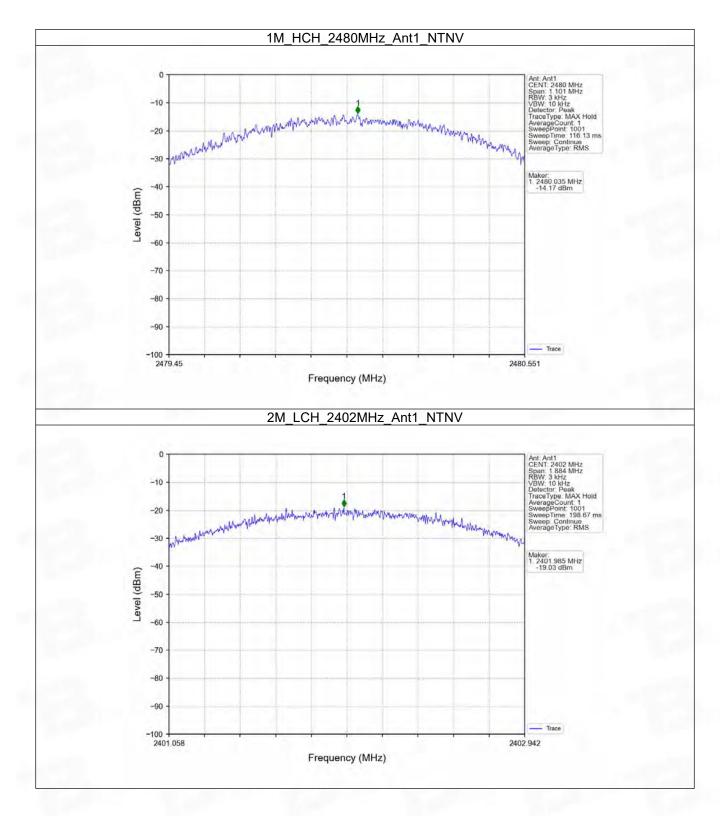
Mada	TX	Frequency	Maximum PS	SD (dBm/3kHz)	Vordict
Mode	Туре	(MHz)	ANT1	Limit	- Verdict
		2402	-14.66	<=8	Pass
1M	SISO	2440	-14.09	<=8	Pass
		2480	-14.17	<=8	Pass
2M		2402	-19.03	<=8	Pass
	SISO	2440	-17.67	<=8	Pass
		2480	-17.62	<=8	Pass



4.1.2 Test Graph

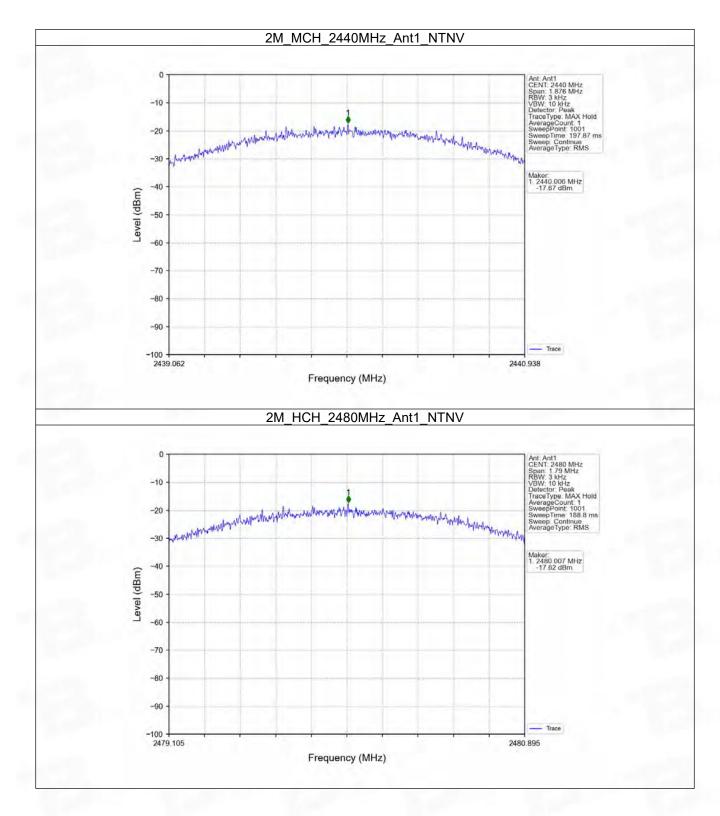






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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

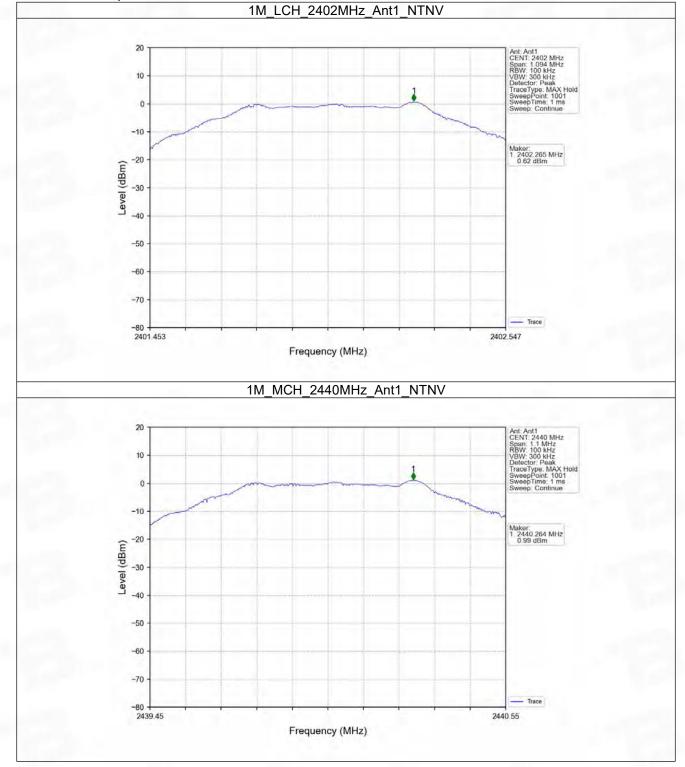
5.1.1 Test Result

ISO	2402 2440	1	0.62
ISO	2440	1	0.00
-		-	0.77
	2480	1	0.87
	2402	1	-0.28
ISO	2440	1	0.32
	2480	1	0.35
		SO 2402 2440 2480	SO 2402 1 2440 1

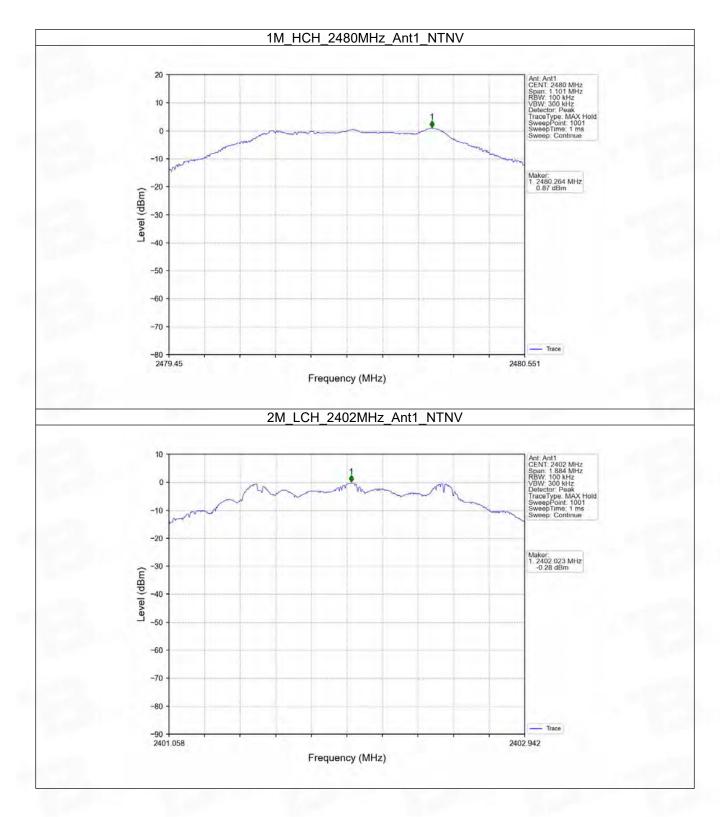
was used to establish the reference level.



5.1.2 Test Graph

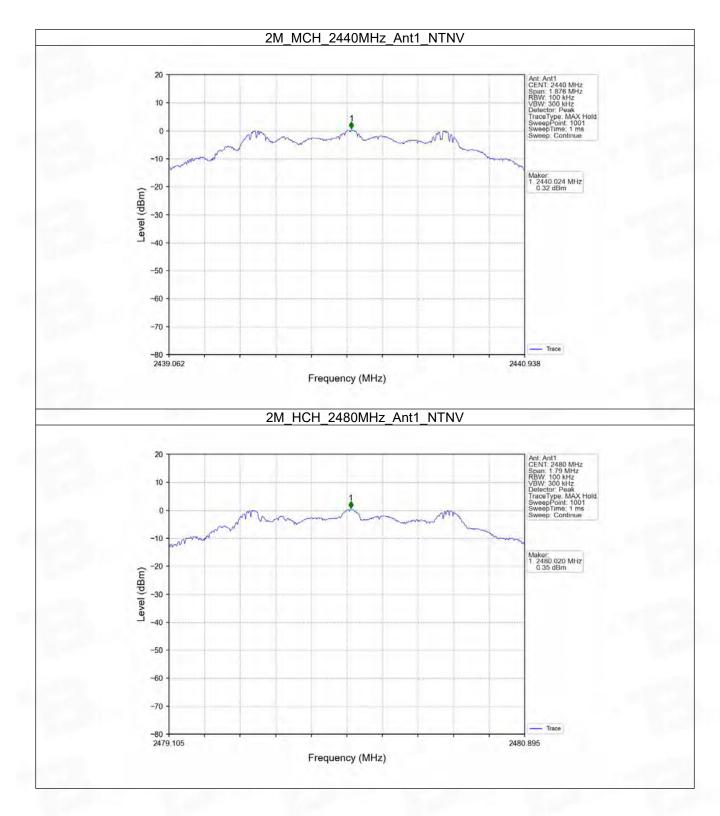






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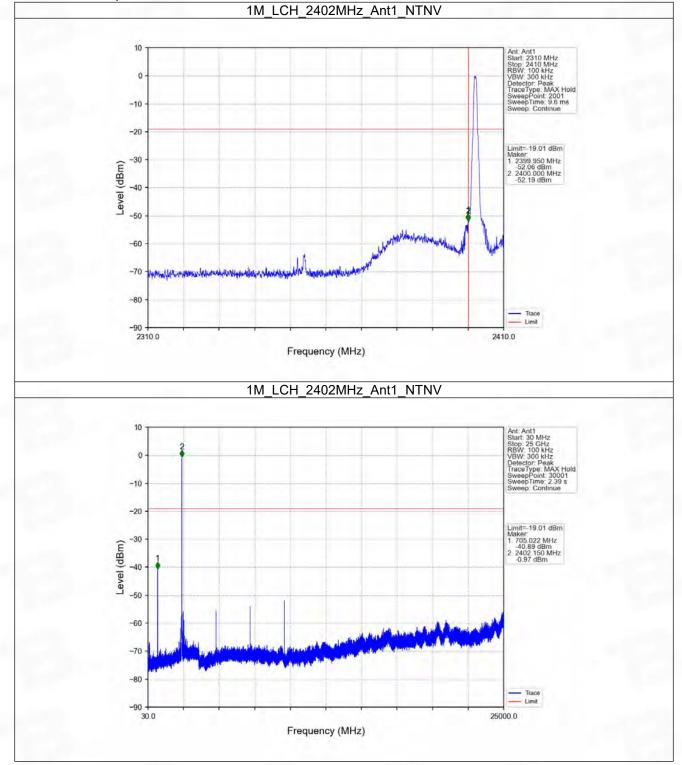
5.2 CSE

5.2.1 Test Result

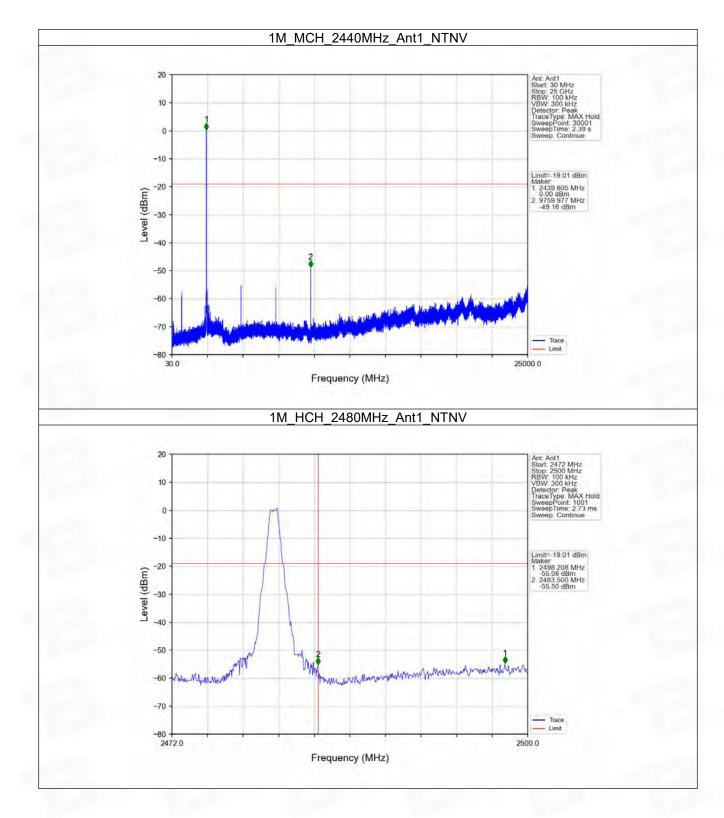
Mode	TX	Frequency	ANT	Level of Reference	Limit	Verdict
Mode	Туре	(MHz)		(dBm)	(dBm)	Verdiet
		2402	1	0.99	-19.01	Pass
1M	SISO	2440	1	0.99	-19.01	Pass
		2480	1	0.99	-19.01	Pass
		2402	1	0.35	-19.65	Pass
2M	SISO	2440	1	0.35	-19.65	Pass
		2480	1	0.35	-19.65	Pass
Note1: Refe	er to FCC Par	t 15.247 (d) and A	ANSI C63.10-	2013, the channel contain	s the maximur	n PSD level
was used to	o establish the	e reference level.				



5.2.2 Test Graph

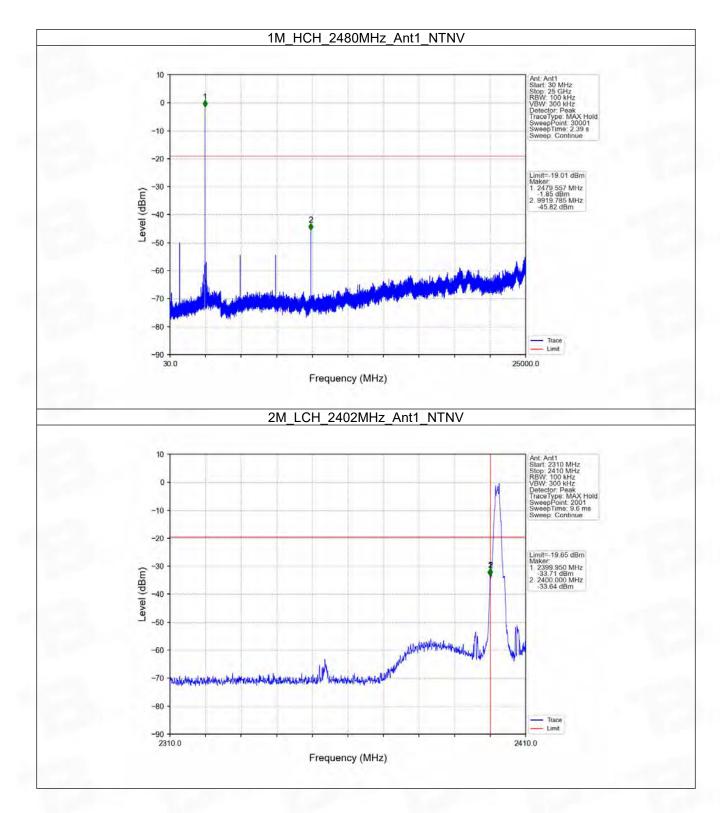






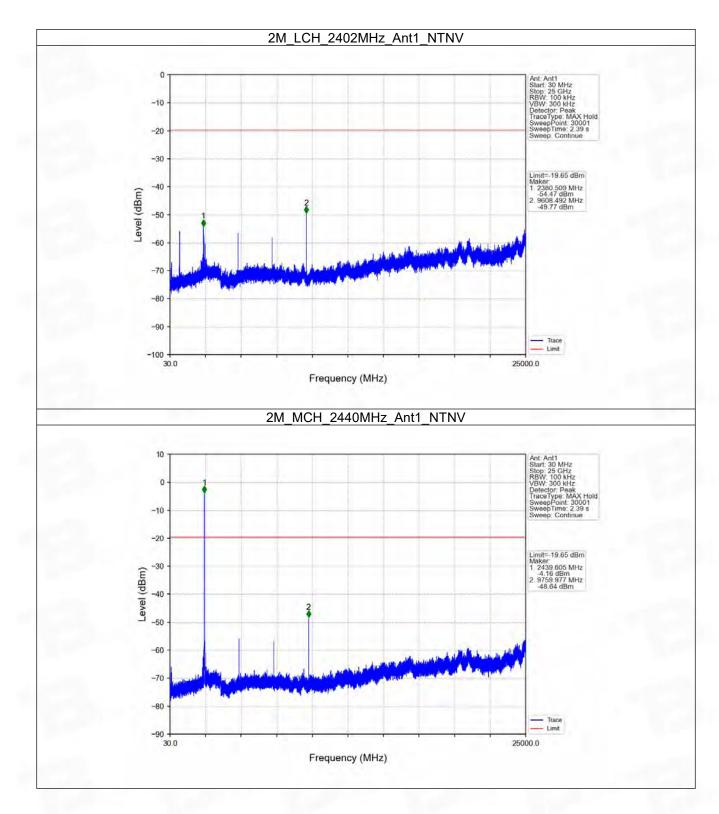
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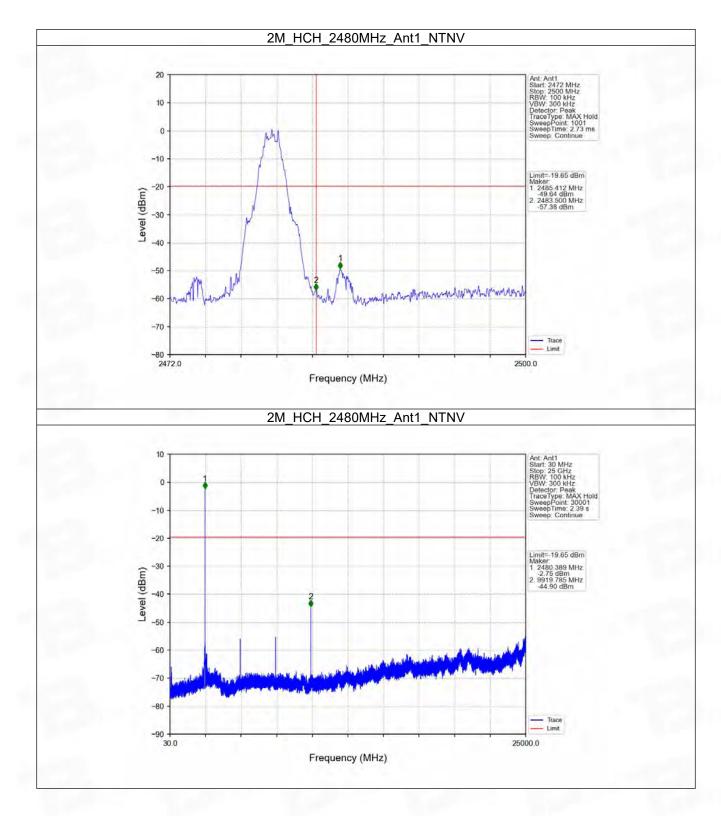


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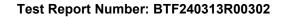
Test Report Number: BTF240313R00302

6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0013	1.25







BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

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