

RF Test Report

For

Applicant Name: Address: EUT Name: Brand Name: Model Number:

Xwireless LLC 11565 Old Georgetown Road, Rockville, MD, USA **Mobile Phone** Vortex V3

Issued By

Company 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

Report Number: Test Standards:

BTF231114R00403 47 CFR Part 15.247

Test Conclusion: FCC ID: Test Date: Date of Issue:

Pass 2ADLJ-V3 2023-11-05 to 2023-11-20 2023-11-21

Prepared By:

Date:

Approved By:

Date:

hrisc (Shenz Chris Liu / Project Engineer 2023-11-21 $\wedge \uparrow$

Ryan.CJ / EMC Manager 2023-11-21

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Revision History		
Issue Date	Revisions Content	100
2023-11-21	Original	
	Issue Date	Issue Date Revisions Content

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:	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

Company 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
FCC Registration Number:	518915
Designation Number:	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

Company Name:	Xwireless LLC	
Address:	11565 Old Georgetown Road, Rockville, MD, USA	
2.2 Manufacturer Information		
Company Name:	Xwireless LLC	
Address:	11565 Old Georgetown Road, Rockville, MD, USA	
2.3 Factory Information		
Company Name: ZTECH COMMNICATION(SZ) CO LTD		
	EL 7 DLOCK D BAO'AN ZHICH INNOVATION BADK VINITIAN DOAD NO 4	

Addresse	Addresse	FL 7 BLOCK D BAO'AN ZHIGU INNOVATION PARK YIN'TIAN ROAD NO.4
	Address:	XI'XIANG STR' BAO'AN DISTRICT SZ CHINA

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Mobile Phone
Test Model Number:	V3
Hardware Version:	V39-MB-V1.0
Software Version:	N/A

2.5 Technical Information

Power Supply:	DC 3.85V from battery
Power Adaptor:	Model:V3 Input:100-240V AC 50/60Hz 0.15A Output:5V==1Amp
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;
Number of Channels:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type:	PIFA ANT
Antenna Gain [#] :	1.03dBi
Noto:	

Note:

#: The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.



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.

3.3 Summary of Test Result

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



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	2022-11-24	2023-11-23	
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23	
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23	
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22	
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2022-11-24	2023-11-23	

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	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23



Band edge emissions (Radiated)						
Emissions in frequen	Emissions in frequency bands (below 1GHz)					
Emissions in frequen						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23	
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/	
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27	
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23	
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/	
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23	
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21	
EZ_EMC	Frad	FA-03A2 RE+	/	/	/	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/	
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27	



4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode.



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)

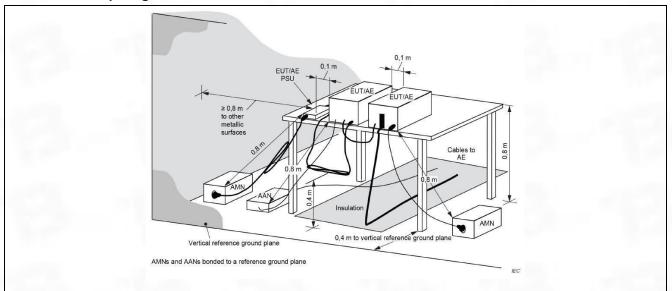
6.1 Conducted Emission at AC power line

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 (dl Quasi-peak	BµV) Average			
Test Limit:	0.15-0.5	66 to 56*	56 to 46*			
Test Linnt.	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:

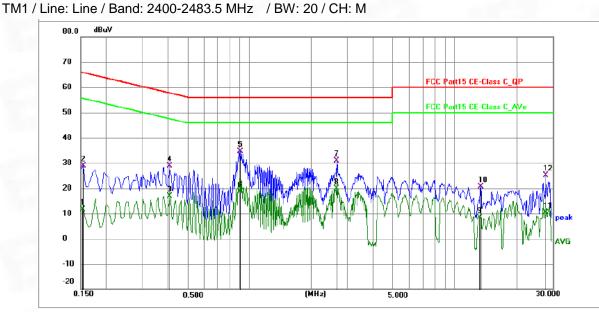
Operating Environment:	
Temperature:	24.6 °C
Humidity:	45.4 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:



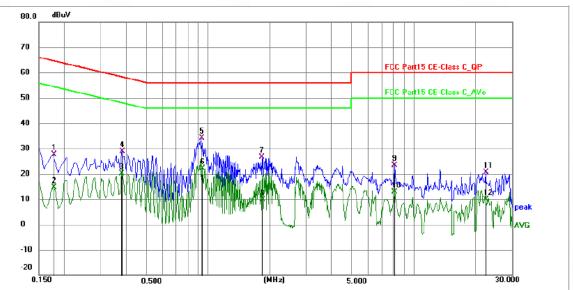


6.1.3 Test Data:



Frequency Reading Factor Level Limit Margin No. Detector P/F Remark (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 1 0.1539 1.19 10.46 11.65 55.79 -44.14 AVG Ρ Р 2 0.1545 18.30 10.46 28.76 65.75 -36.99 QP 0.4061 5.80 11.20 47.73 -30.73 Ρ 3 17.00 AVG 4 0.4065 17.71 11.20 28.91 57.72 -28.81 QP Ρ 10.67 Ρ 5 * 0.9015 23.88 34.55 56.00 -21.45 QP 6 0.9015 8.05 10.67 18.72 46.00 -27.28 AVG Ρ Ρ 7 2.6610 20.09 10.67 30.76 56.00 -25.24 QP 8 2.6610 9.15 10.67 19.82 46.00 -26.18 AVG Ρ 9 13.2270 -2.57 10.89 8.32 50.00 Р -41.68 AVG 10 13.3800 9.72 10.90 20.62 60.00 -39.38 QP Ρ 27.6990 -0.82 11.20 10.38 50.00 AVG Ρ 11 -39.62 13.94 12 27.7710 11.20 25.14 60.00 -34.86 QP Ρ





TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1770	17.11	10.51	27.62	64.63	-37.01	QP	Р	
2	0.1787	4.16	10.52	14.68	54.55	-39.87	AVG	Р	
3	0.3791	8.89	11.13	20.02	48.30	-28.28	AVG	Р	
4	0.3795	17.76	11.13	28.89	58.29	-29.40	QP	Р	
5 *	0.9375	23.52	10.67	34.19	56.00	-21.81	QP	Р	
6	0.9420	11.47	10.67	22.14	46.00	-23.86	AVG	Р	
7	1.8240	16.07	10.67	26.74	56.00	-29.26	QP	Р	
8	1.8330	-0.78	10.67	9.89	46.00	-36.11	AVG	Р	
9	8.0610	12.61	10.82	23.43	60.00	-36.57	QP	Р	
10	8.0610	2.18	10.82	13.00	50.00	-37.00	AVG	Р	
11	22.3530	9.53	11.09	20.62	60.00	-39.38	QP	Р	
12	22.3530	-1.19	11.09	9.90	50.00	-40.10	AVG	Р	



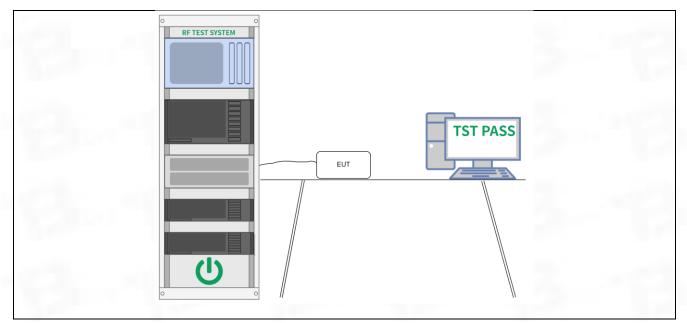
6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
	ANSI C63.10-2013, section 11.8
Test Method:	ANSI C63.10-2020, section 11.8
	KDB 558074 D01 15.247 Meas Guidance v05r02
	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may
Test Limit:	operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB
	bandwidth shall be at least 500 kHz.
	a) Set RBW = 100 kHz.
	b) Set the VBW >= $[3 \times RBW]$.
	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 demonstrated emission
	the fundamental emission.
	11.8.1 Option 1
	The steps for the first option are as follows:
	a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
	b) Set the VBW ≥ [3 × RBW].
	c) Detector = peak.
Procedure:	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 \ge 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 might be \ge 6 dB.
624 EULT Operations	

6.2.1 E.U.T. Operation:

Operating Environment:				
Temperature:	24.6 °C	1 M S	1.111	
Humidity:	45.4 %			
Atmospheric Pressure:	1010 mbar			
6.2.2 Test Setup Diagra	m:			





6.2.3 Test Data:



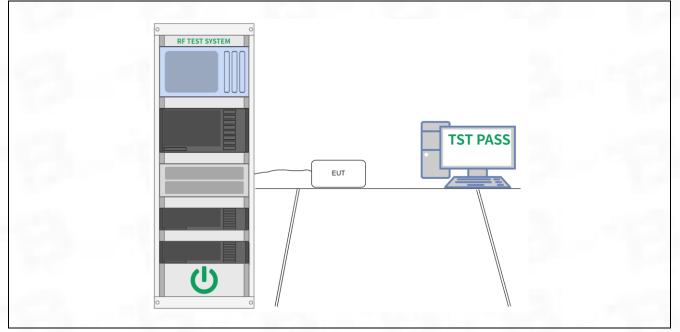
6.3 Maximum Conducted Output Power

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:	24.6 °C	1000	1.0	
Humidity:	45.4 %		10.00	
Atmospheric Pressure:	1010 mbar			

6.3.2 Test Setup Diagram:



6.3.3 Test Data:



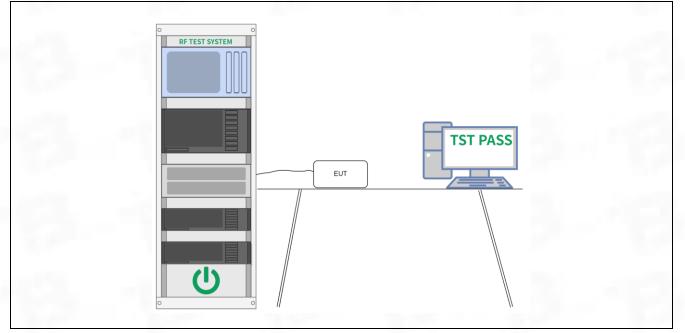
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Mathead	ANSI C63.10-2013, section 11.10
Test Method:	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 emission ANSI 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:	24.6 °C	
Humidity:	45.4 %	
Atmospheric Pressure:	1010 mbar	

6.4.2 Test Setup Diagram:



6.4.3 Test Data:



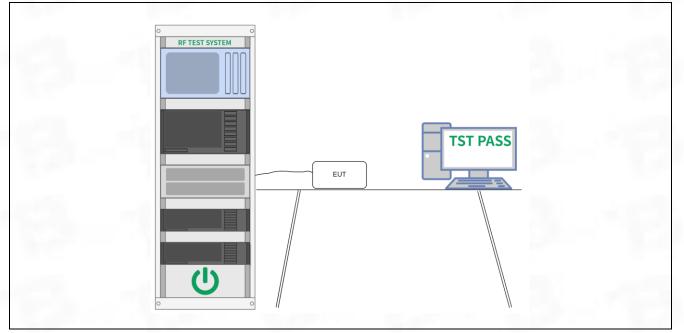
6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
· ·	ANSI C63.10-2013 section 11.11
Test Method:	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:	24.6 °C		
Humidity:	45.4 %		
Atmospheric Pressure:	1010 mbar		

6.5.2 Test Setup Diagram:



6.5.3 Test Data:



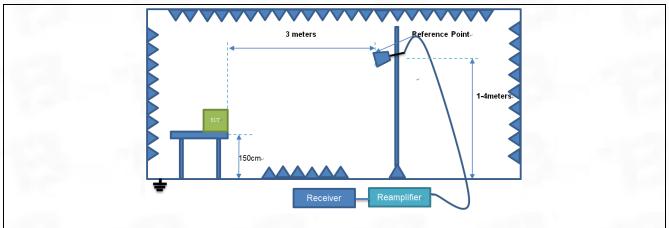
6.6 Band edge emissions (Radiated)

	Refer to 47 CFR 15.247	(d), In addition, radiated emissic	ons which fall in the			
Test Requirement:	restricted bands, as defined in § 15.205(a), must also comply with the radiated					
	emission limits specified	in § 15.209(a)(see § 15.205(c))	0.2			
	ANSI C63.10-2013 secti	on 6.10				
Test Method:	ANSI C63.10-2020 secti					
		7 Meas Guidance v05r02				
	Frequency (MHz)	Field strength	Measurement			
		(microvolts/meter)	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			
Test Limit:	88-216	150 **	3			
	216-960	200 **	3			
	Above 960	500	3			
	radiators operating under 54-72 MHz, 76-88 MHz, these frequency bands i	paragraph (g), fundamental em r this section shall not be locate 174-216 MHz or 470-806 MHz. s permitted under other sections	ed in the frequency bands However, operation within			
	§§ 15.231 and 15.241.	op 6 10 5 2				
Procedure:	ANSI C63.10-2013 secti	011 0.10.3.2				
	ANSI C63.10-2020 section 6.10.5.2					

6.6.1 E.U.T. Operation:

Operating Environment:		
Temperature:	24.6 °C	
Humidity:	45.4 %	
Atmospheric Pressure:	1010 mbar	

6.6.2 Test Setup Diagram:





6.6.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F	
NO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Delecioi		
1	2310.000	77.34	-30.22	47.12	74.00	-26.88	peak	Р	
2	2390.000	79.21	-28.76	50.45	74.00	-23.55	peak	Р	
3	2400.000	77.00	-26.14	50.86	74.00	-23.14	peak	Р	
		-							

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L

No	Frequency	Reading	Factor	Factor Level Limit Margin		Margin	Detector	P/F
No.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	P/F
1	2310.000	77.67	-30.19	47.48	74.00	-26.52	peak	Р
2	2390.000	79.54	-28.73	50.81	74.00	-23.19	peak	Р
3	2400.000	77.33	-26.11	51.22	74.00	-22.78	peak	Р

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
NO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Delecioi	
1	2483.500	81.29	-28.75	52.54	74.00	-21.46	peak	Р
2	2500.000	76.16	-26.75	49.41	74.00	-24.59	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	81.45	-28.79	52.66	74.00	-21.34	peak	Р
2	2500.000	76.32	-26.79	49.53	74.00	-24.47	peak	Р



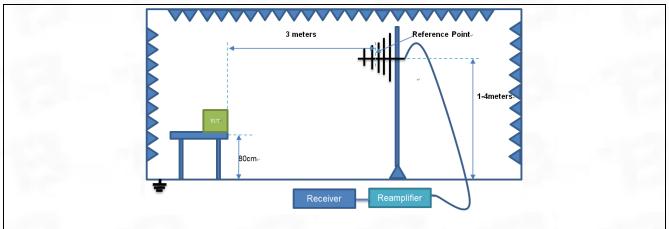
6.7 Emissions in frequency bands (below 1GHz)

	Refer to 47 CFR 15.247	(d), In addition, radiated emission	ons which fall in the
Test Requirement:		ned in § 15.205(a), must also co	
•		in § 15.209(a)(see § 15.205(c))	
	ANSI C63.10-2013 sect	ion 6.6.4	
Test Method:	ANSI C63.10-2020 sect	ion 6.6.4	
	KDB 558074 D01 15.24	7 Meas Guidance v05r02	
	Frequency (MHz)	Field strength	Measurement
		(microvolts/meter)	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
Test Limit:	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in	paragraph (g), fundamental em	issions from intentional
		er this section shall not be locate	
		174-216 MHz or 470-806 MHz.	· •
		s permitted under other sections	s of this part, e.g.,
	§§ 15.231 and 15.241.		
_	ANSI C63.10-2013 secti	ion 6.6.4	
Procedure:			
	ANSI C63.10-2020 sect	on 6.6.4	

6.7.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.6 °C		
Humidity:	45.4 %		
Atmospheric Pressure:	1010 mbar		

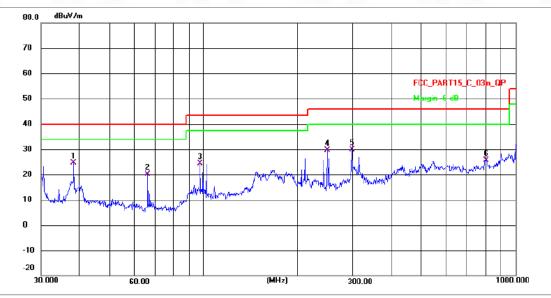
6.7.2 Test Setup Diagram:





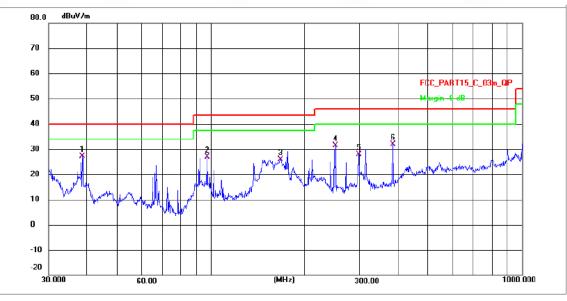
6.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	38.2120	42.94	-18.42	24.52	40.00	-15.48	QP	Р
2	66.1500	38.20	-18.13	20.07	40.00	-19.93	QP	Р
3	97.1148	53.00	-28.70	24.30	43.50	-19.20	QP	Р
4	248.5520	55.40	-25.86	29.54	46.00	-16.46	QP	Р
5	298.7914	55.23	-25.44	29.79	46.00	-16.21	QP	Р
6	807.4290	49.23	-23.60	25.63	46.00	-20.37	QP	Р





TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	38.4810	47.61	-20.57	27.04	40.00	-12.96	QP	Р
2	97.1148	55.50	-28.70	26.80	43.50	-16.70	QP	Р
3	167.5302	53.56	-27.62	25.94	43.50	-17.56	QP	Р
4	252.0627	57.25	-25.84	31.41	46.00	-14.59	QP	Р
5	298.7914	53.23	-25.44	27.79	46.00	-18.21	QP	Р
6	383.9318	56.55	-24.76	31.79	46.00	-14.21	QP	Р



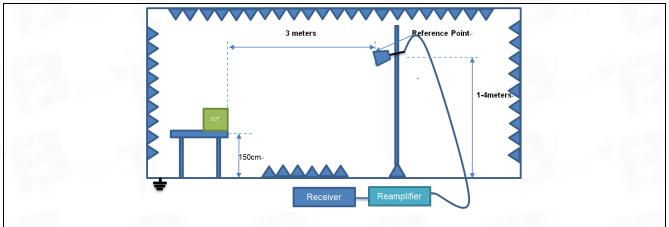
6.8 Emissions in frequency bands (above 1GHz)

	In addition, radiated emi	ssions which fall in the restricted	d bands, as defined in §					
Test Requirement:	15.205(a), must also comply with the radiated emission limits specified in §							
	15.209(a)(see § 15.205(c)).							
	ANSI C63.10-2013 section 6.6.4							
Test Method:	ANSI C63.10-2020 sect	ion 6.6.4						
	KDB 558074 D01 15.24	7 Meas Guidance v05r02						
	Frequency (MHz)	Field strength	Measurement					
		(microvolts/meter)	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					
Test Limit:	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.							
Procedure:	ANSI C63.10-2013 secti ANSI C63.10-2020 secti							

6.8.1 E.U.T. Operation:

Operating Environment:		
Temperature:	24.6 °C	
Humidity:	45.4 %	
Atmospheric Pressure:	1010 mbar	

6.8.2 Test Setup Diagram:





6.8.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L

Frequency	Reading	Factor	Level	Limit	Margin	Dotoctor	P/F
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Delector	
1512.817	68.04	-30.21	37.83	74.00	-36.17	peak	Р
3653.937	79.40	-28.75	50.65	74.00	-23.35	peak	Р
5864.606	77.19	-26.13	51.06	74.00	-22.94	peak	Р
7870.002	80.04	-24.65	55.39	74.00	-18.61	peak	Р
9765.539	82.66	-22.93	59.73	74.00	-14.27	peak	Р
13950.785	82.46	-20.66	61.80	74.00	-12.20	peak	Р
	(MHz) 1512.817 3653.937 5864.606 7870.002 9765.539	(MHz) (dBuV) 1512.817 68.04 3653.937 79.40 5864.606 77.19 7870.002 80.04 9765.539 82.66	(MHz)(dBuV)(dB/m)1512.81768.04-30.213653.93779.40-28.755864.60677.19-26.137870.00280.04-24.659765.53982.66-22.93	(MHz)(dBuV)(dB/m)(dBuV/m)1512.81768.04-30.2137.833653.93779.40-28.7550.655864.60677.19-26.1351.067870.00280.04-24.6555.399765.53982.66-22.9359.73	(MHz)(dBuV)(dB/m)(dBuV/m)(dBuV/m)1512.81768.04-30.2137.8374.003653.93779.40-28.7550.6574.005864.60677.19-26.1351.0674.007870.00280.04-24.6555.3974.009765.53982.66-22.9359.7374.00	(MHz)(dBuV)(dB/m)(dBuV/m)(dBuV/m)(dBuV/m)1512.81768.04-30.2137.8374.00-36.173653.93779.40-28.7550.6574.00-23.355864.60677.19-26.1351.0674.00-22.947870.00280.04-24.6555.3974.00-18.619765.53982.66-22.9359.7374.00-14.27	(MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) Detector 1512.817 68.04 -30.21 37.83 74.00 -36.17 peak 3653.937 79.40 -28.75 50.65 74.00 -23.35 peak 5864.606 77.19 -26.13 51.06 74.00 -22.94 peak 7870.002 80.04 -24.65 55.39 74.00 -18.61 peak 9765.539 82.66 -22.93 59.73 74.00 -14.27 peak

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L

	Frequency	Frequency Reading		Level	Limit	Margin		
No.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	P/F
1	1323.648	67.81	-30.16	37.65	74.00	-36.35	peak	Р
2	3464.768	79.17	-28.70	50.47	74.00	-23.53	peak	Р
3	5675.437	76.96	-26.08	50.88	74.00	-23.12	peak	Р
4	7680.833	79.81	-24.60) 55.21 74.00 -18.79 p		peak	Р	
5	9576.370	82.43	-22.88	59.55	74.00	-14.45	peak	Р
6	13761.616	82.23	-20.61	61.62	74.00	-12.38	peak	Р

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F	
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Delector	P/F	
1	1389.854	67.89	-30.12	37.77	74.00	-36.23	peak	Р	
2	3530.974	79.25	-28.66	50.59	74.00	-23.41	peak	Р	
3	5741.643	77.04	-26.04	51.00	74.00	-23.00	peak	Р	
4	7747.039	79.89	-24.56	55.33	74.00	-18.67	peak	Р	
5	9642.576	82.51	-22.84	59.67	74.00	-14.33	peak	Р	
6	13827.822	82.31	-20.57	61.74	74.00	-12.26	peak	Р	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: M

	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F	
INO	NO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)) (dBuV/m) (dE		Delector		
	1	1542.817	68.45	-30.18	38.27	74.00	-35.73	peak	Р	
	2	3683.937	79.81	-28.72	51.09	74.00	-22.91	peak	Р	
	3	5894.606	77.60	-26.10	51.50	74.00	-22.50	peak	Р	
	4	7900.002	80.45	-24.62	55.83	74.00	-18.17	peak	Р	
	5	9795.539	83.07	-22.90	60.17	74.00	-13.83	peak	Р	
	6	13980.785	82.87	-20.63	62.24	74.00	-11.76	peak	Р	



No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F	
NO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Delector	1 /1	
1	1916.817	68.15	-30.12	38.03	74.00	-35.97	peak	Р	
2	4057.937	79.51	-28.66	50.85	74.00	-23.15	peak	Р	
3	6268.606	77.30	-26.04	51.26	74.00	-22.74	peak	Р	
4	8274.002	80.15	-24.56	55.59	74.00	-18.41	peak	Р	
5	10169.539	82.77	-22.84	59.93	74.00	-14.07	peak	Р	
6	14354.785	82.57	-20.57	62.00	74.00	-12.00	peak	Р	

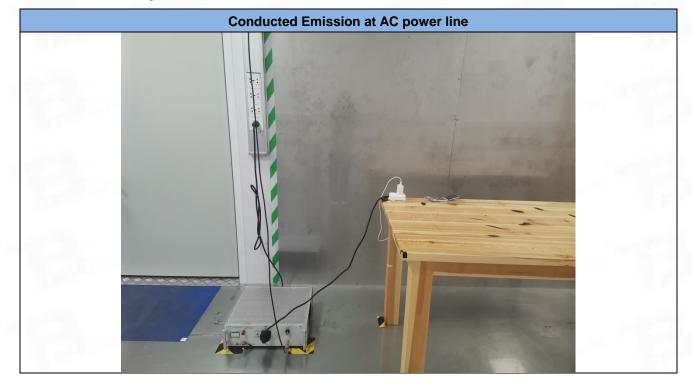
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H

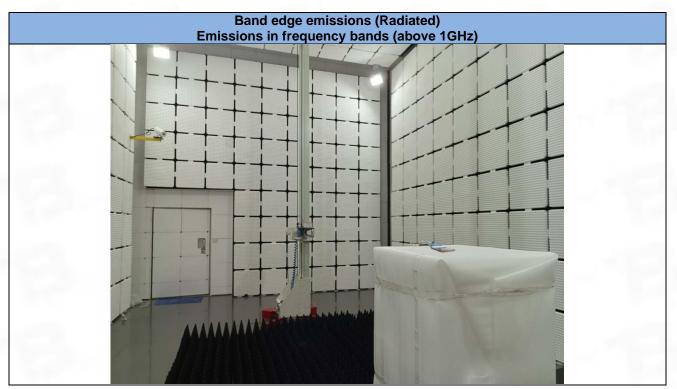
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

	Frequency	Reading	Factor	Level	Limit	Margin	Datastan	
No.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	P/F
1	1814.854	68.39	-30.14	38.25	74.00	-35.75	peak	Р
2	3955.974	79.75	-28.68	51.07	74.00	-22.93	peak	Р
3	6166.643	77.54	-26.06	51.48	74.00	-22.52	peak	Р
4	8172.039	80.39	-24.58	55.81	74.00	-18.19	peak	Р
5	10067.576	83.01	-22.86	60.15	74.00	-13.85	peak	Р
6	14252.822	82.81	-20.59	62.22	74.00	-11.78	peak	Ρ

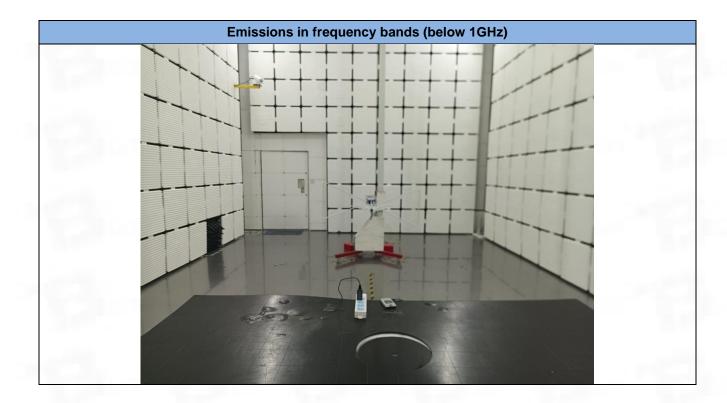


7 Test Setup Photos









Test Report Number: BTF231114R00403



8 EUT Constructional Details (EUT Photos)

Please refer to the test report NO. BTF231114R00401



Test Report Number: BTF231114R00403

Appendix

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1. Duty Cycle

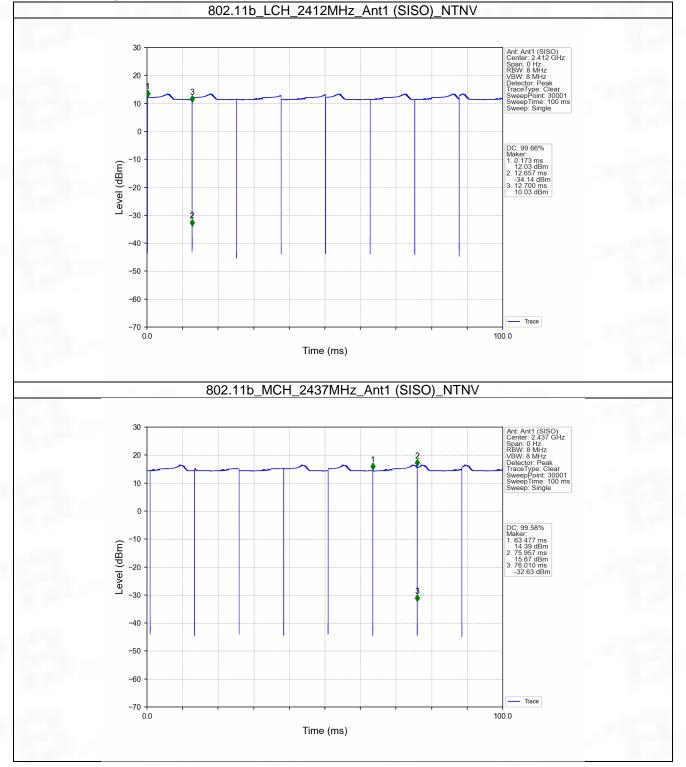
1.1 Ant1

1.1.1 Test Result

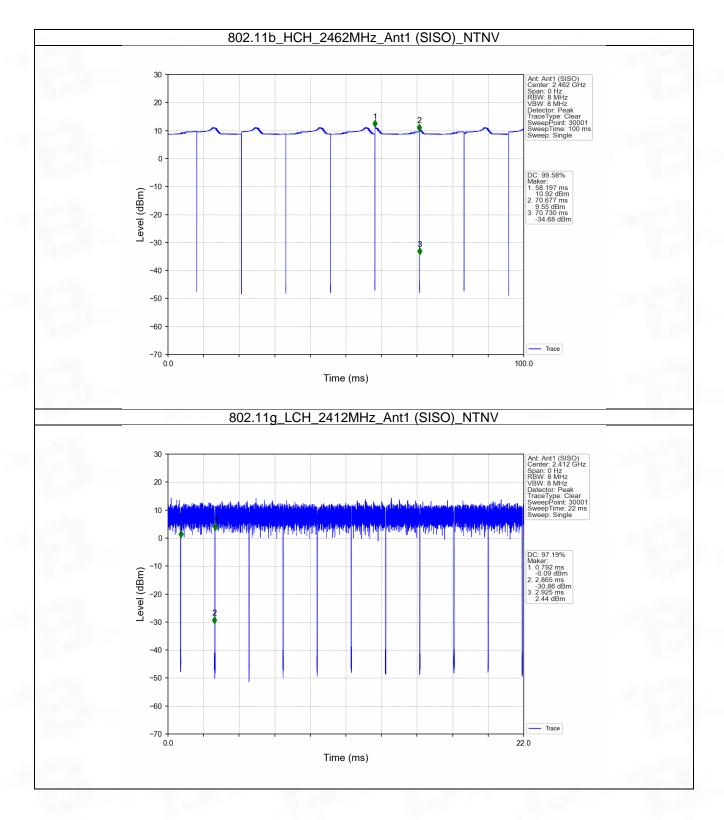
	Ant1										
Mode	ТΧ	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC				
Mode	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)				
		2412	8.383	8.413	99.64	0.02	0.04				
802.11b	SISO	2437	8.384	8.414	99.64	0.02	0.04				
		2462	8.384	8.414	99.64	0.02	0.04				
	SISO	2412	2.073	2.133	97.19	0.12	1.25				
802.11g		2437	2.073	2.133	97.19	0.12	1.25				
		2462	2.073	2.115	98.01	0.09	0.44				
902 11p		2412	1.933	1.984	97.43	0.11	0.89				
802.11n	SISO	2437	1.933	1.975	97.87	0.09	0.50				
(HT20)		2462	1.933	1.984	97.43	0.11	0.89				



1.1.2 Test Graph

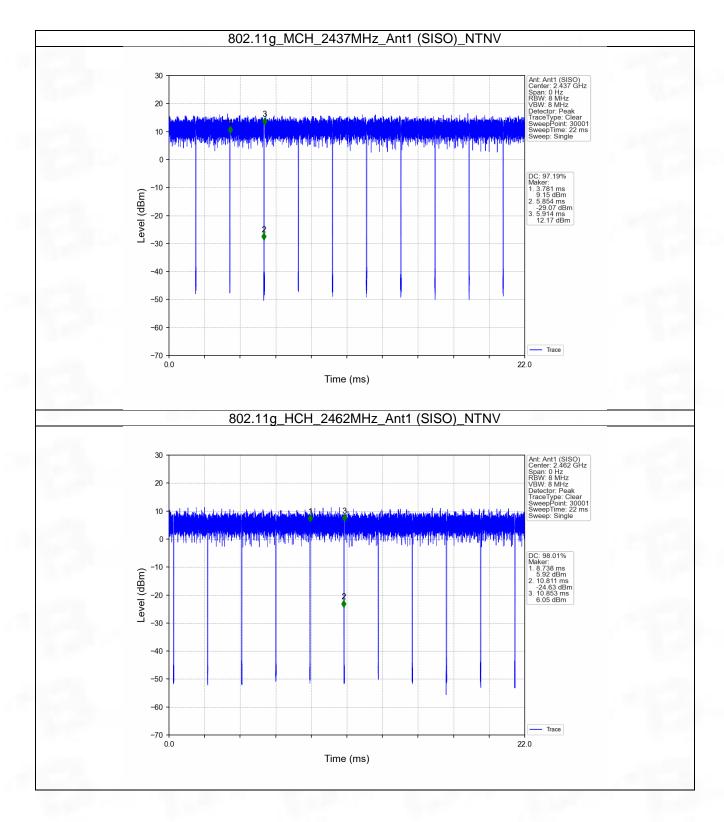






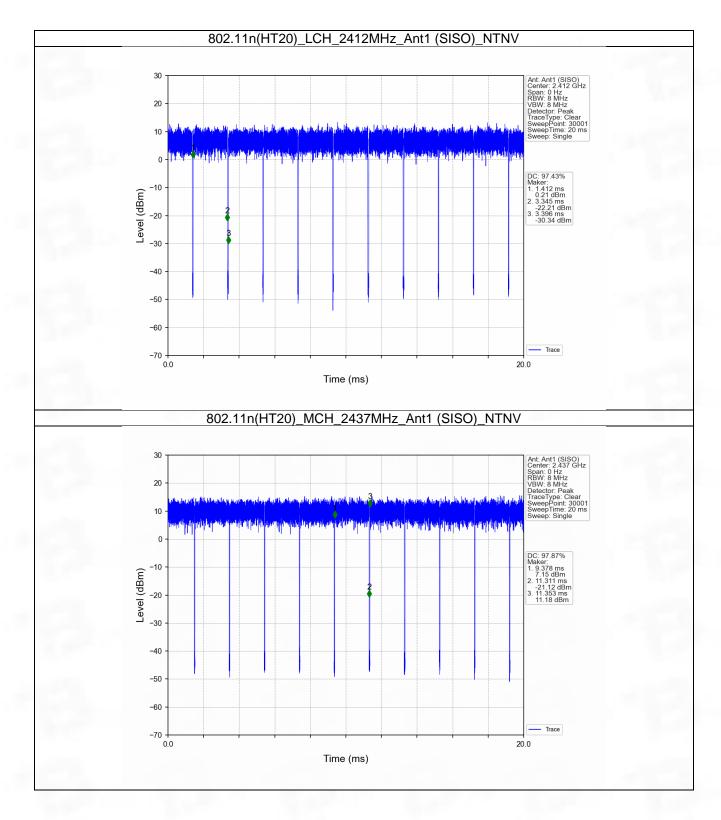
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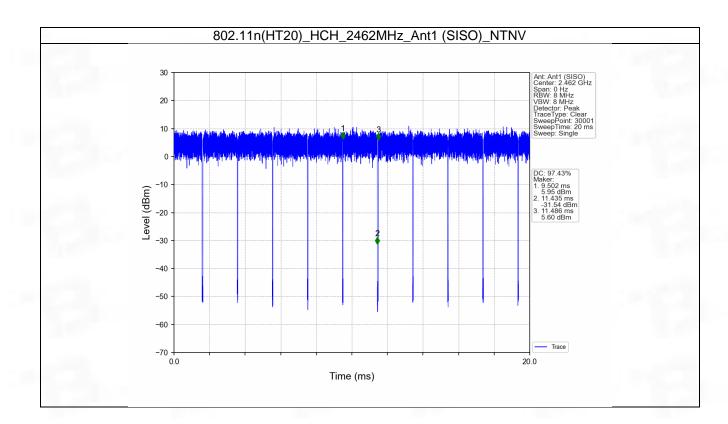
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2. Bandwidth

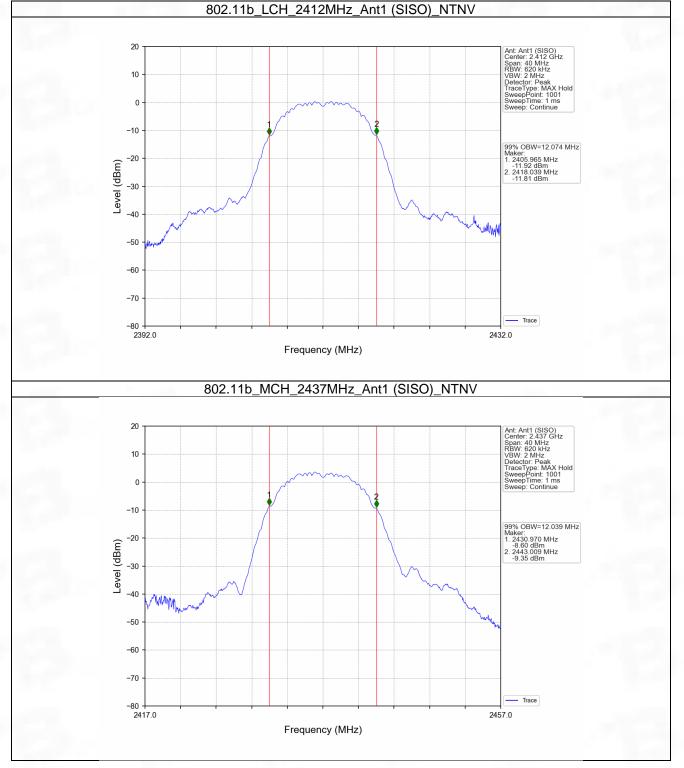
2.1 OBW

2.1.1 Test Result

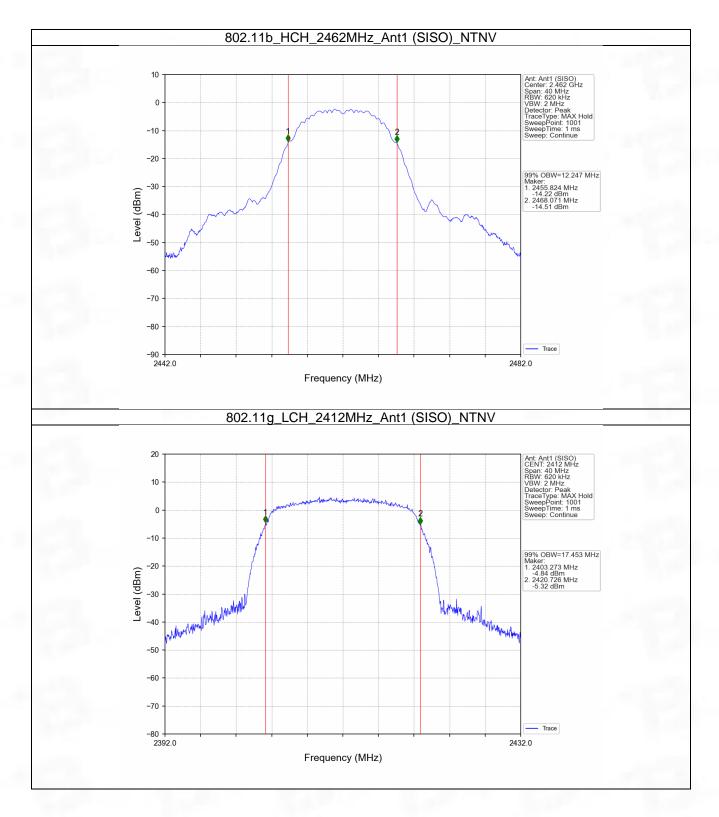
Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	Verdict	
	Туре	(MHz)	ANT	Result		
		2412	1	12.074	Pass	
802.11b	SISO	2437	1	12.039	Pass	
		2462	1	12.247	Pass	
	SISO		2412	1	17.453	Pass
802.11g		2437	1	17.472	Pass	
		2462	1	19.226	Pass	
000 11-	SISO		2412	1	18.945	Pass
802.11n		2437	1	18.705	Pass	
(HT20)		2462	1	19.286	Pass	



2.1.2 Test Graph

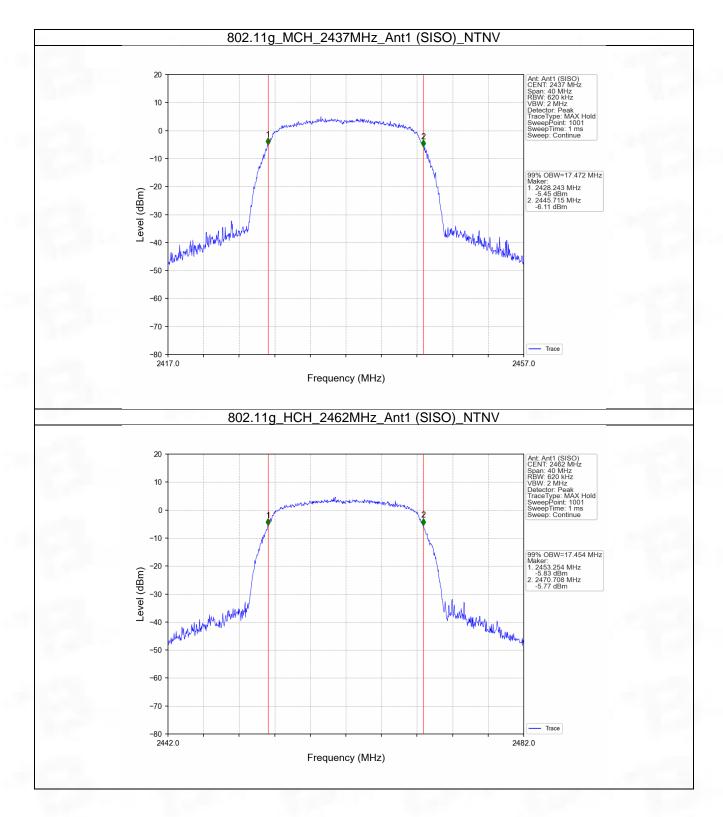




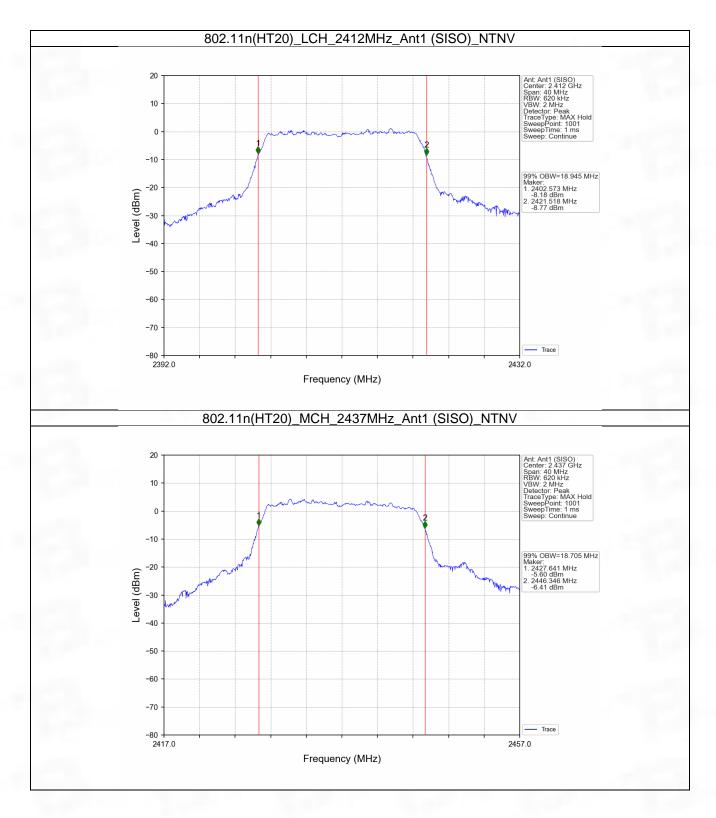


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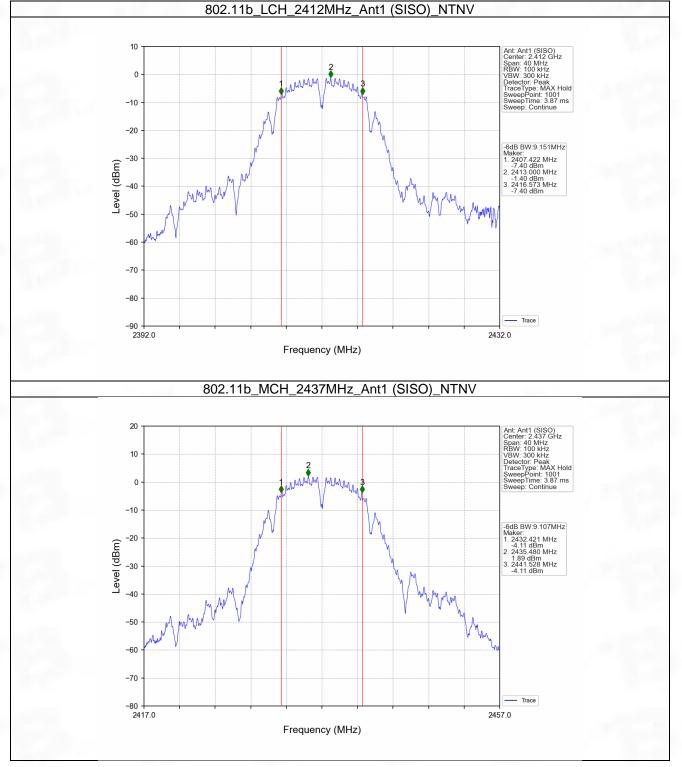
2.2 6dB BW

2.2.1 Test Result

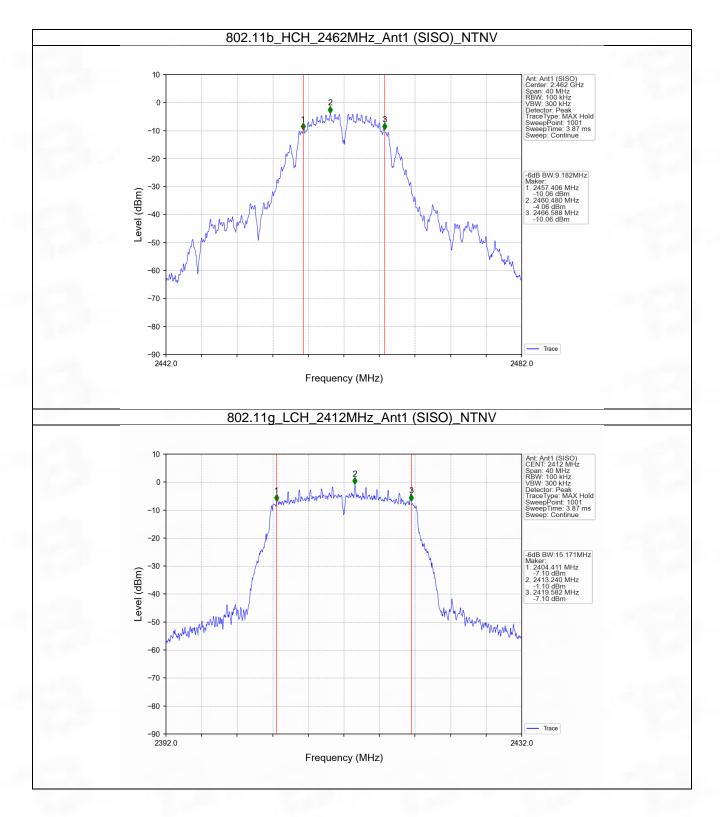
Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict	
	Туре	(MHz)		Result	Limit	verdict	
	SISO	2412	1	9.151	>=0.5	Pass	
802.11b		2437	1	9.107	>=0.5	Pass	
		2462	1	9.182	>=0.5	Pass	
	SISO		2412	1	15.171	>=0.5	Pass
802.11g		2437	1	15.161	>=0.5	Pass	
		2462	1	15.174	>=0.5	Pass	
802.11n	SISO	SISO	2412	1	17.635	>=0.5	Pass
			2437	1	17.232	>=0.5	Pass
(HT20)		2462	1	17.630	>=0.5	Pass	



2.2.2 Test Graph

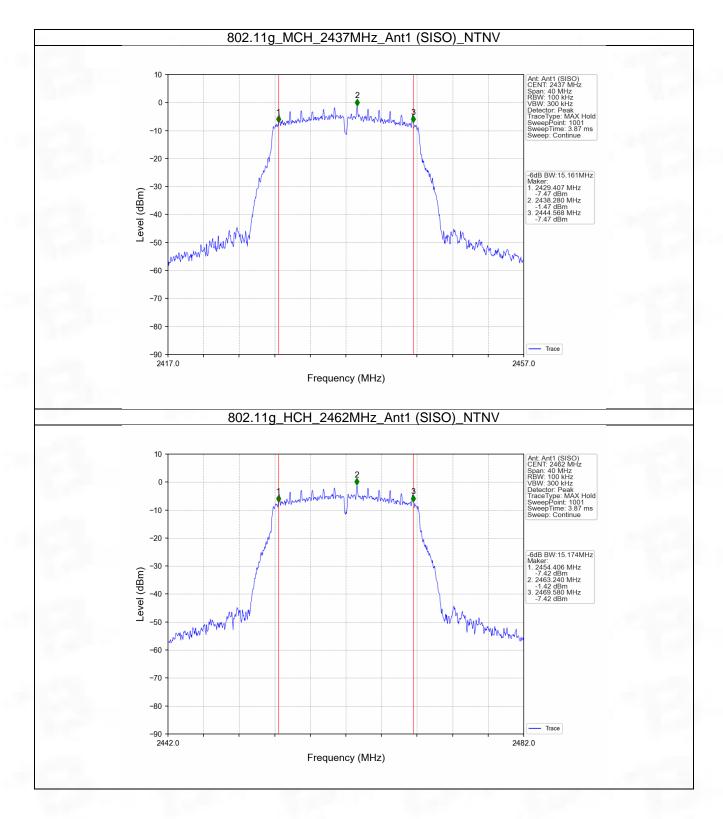






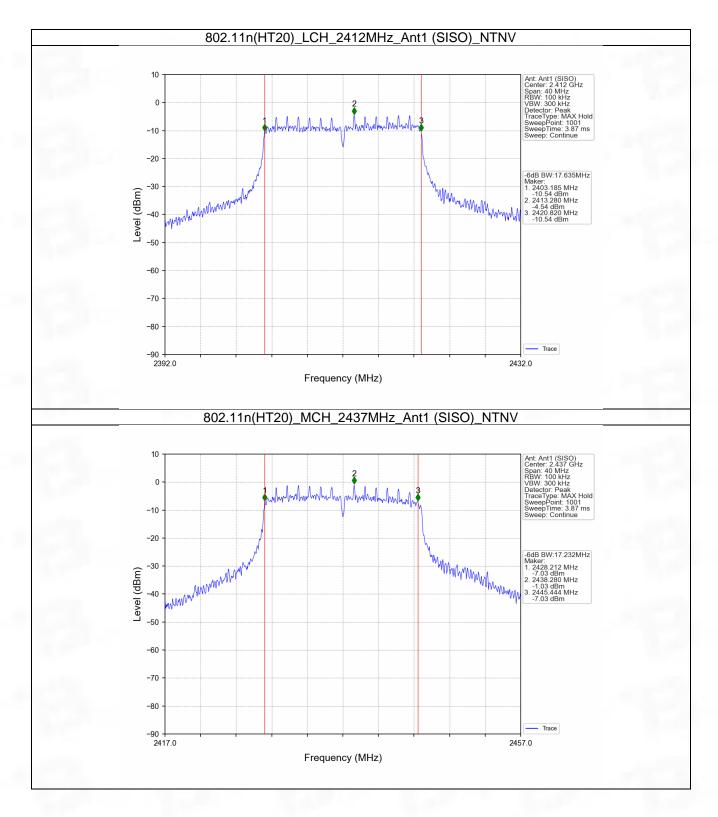
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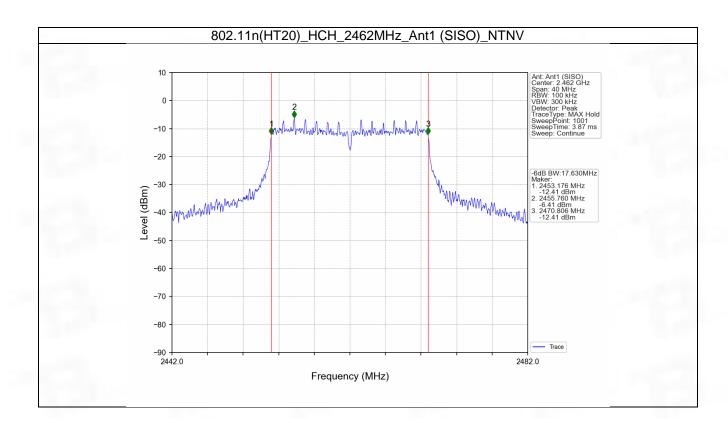


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	ТΧ	Frequency	Frequency Maximum Peak Conducted Output Power (dBm)			
	Туре	Type (MHz)	ANT1	Limit	Verdict	
		2412	10.90	<=30	Pass	
802.11b	SISO	2437	13.90	<=30	Pass	
		2462	8.28	<=30	Pass	
	SISO	2412	15.36	<=30	Pass	
802.11g		2437	18.12	<=30	Pass	
		2462	12.85	<=30	Pass	
802.11n (HT20)		2412	14.46	<=30	Pass	
	SISO	2437	17.28	<=30	Pass	
	-	2462	12.31	<=30	Pass	
Note1: Anten	na Gain: Ar	nt1: 1.03dBi;				

4. Maximum Power Spectral Density

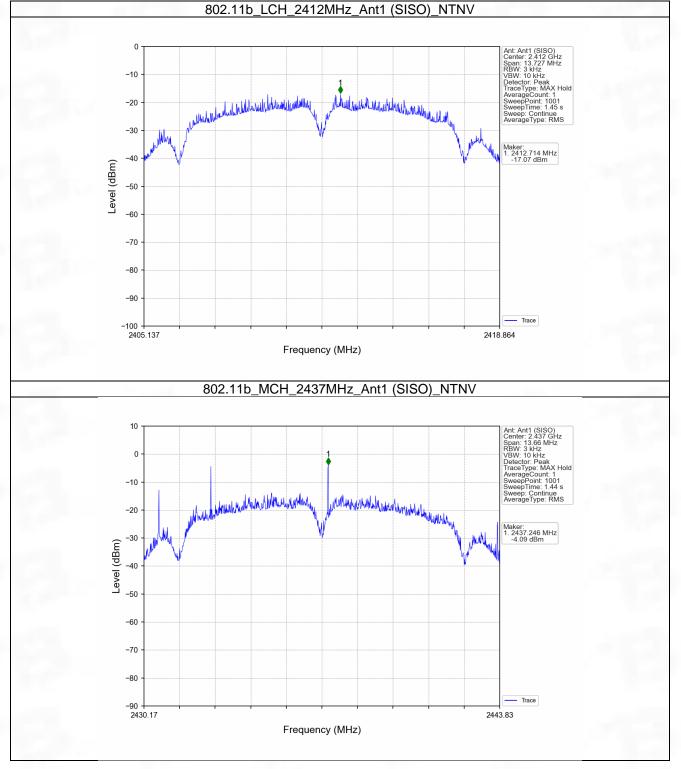
4.1 PSD

4.1.1 Test Result

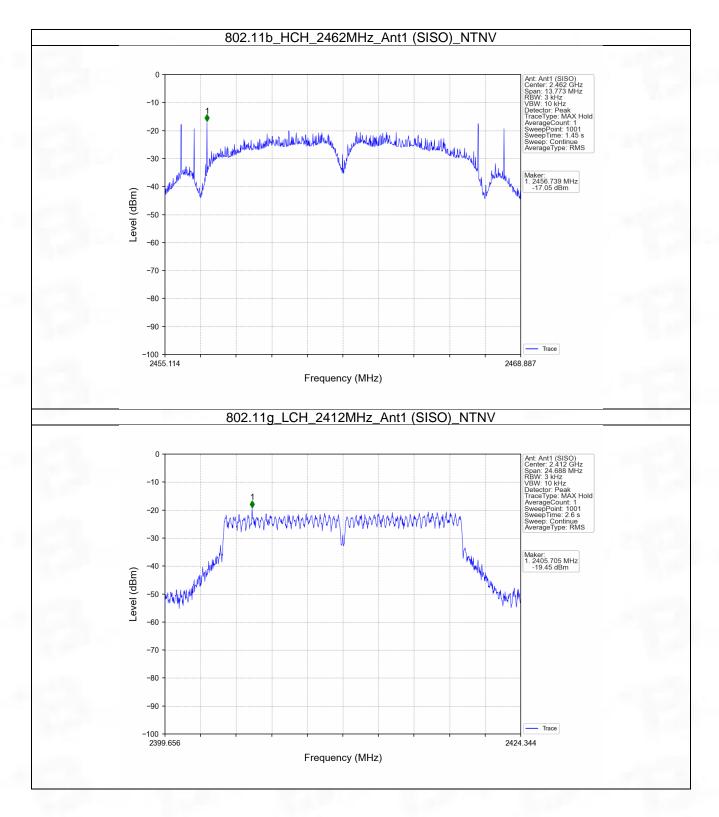
Mode	TX	Frequency	Maximum PS	Vardiat	
wode	Туре	(MHz)	ANT1	Limit	Verdict
		2412	-17.07	<=8	Pass
802.11b	SISO	2437	-4.09	<=8	Pass
		2462	-17.05	<=8	Pass
802.11g	SISO	2412	-19.45	<=8	Pass
		2437	-16.31	<=8	Pass
		2462	-21.79	<=8	Pass
802.11n (HT20)	SISO	2412	-20.94	<=8	Pass
		2437	-17.05	<=8	Pass
		2462	-22.56	<=8	Pass



4.1.2 Test Graph

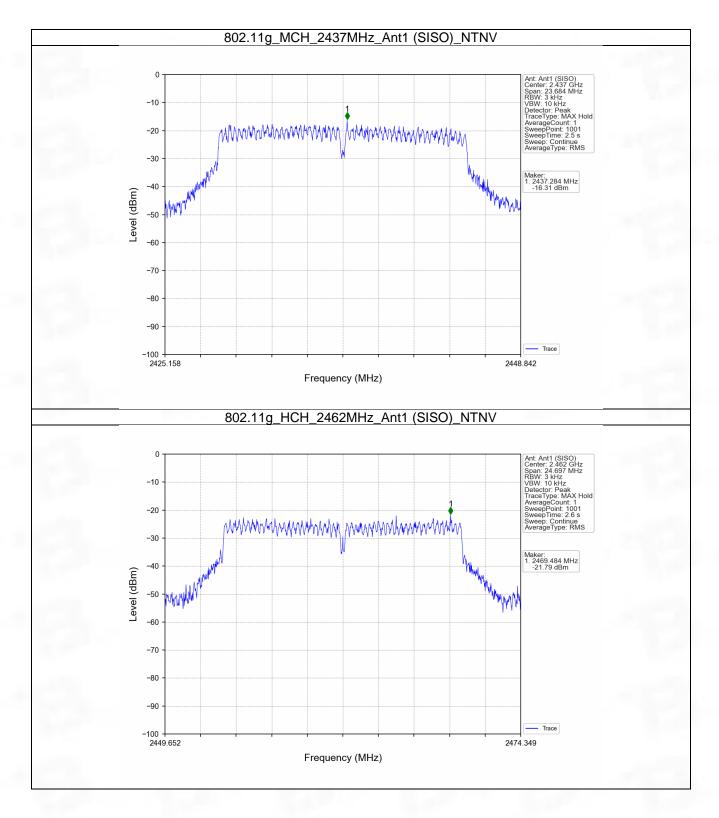




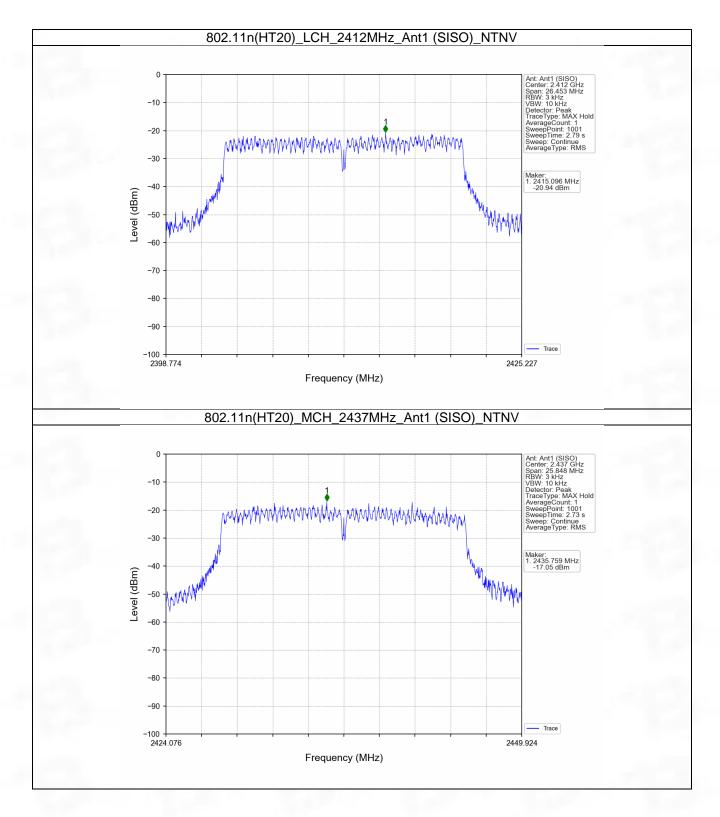


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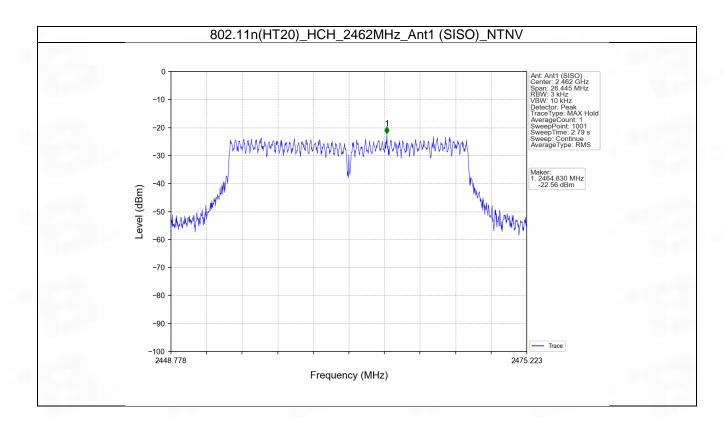














5. Unwanted Emissions InStandard Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

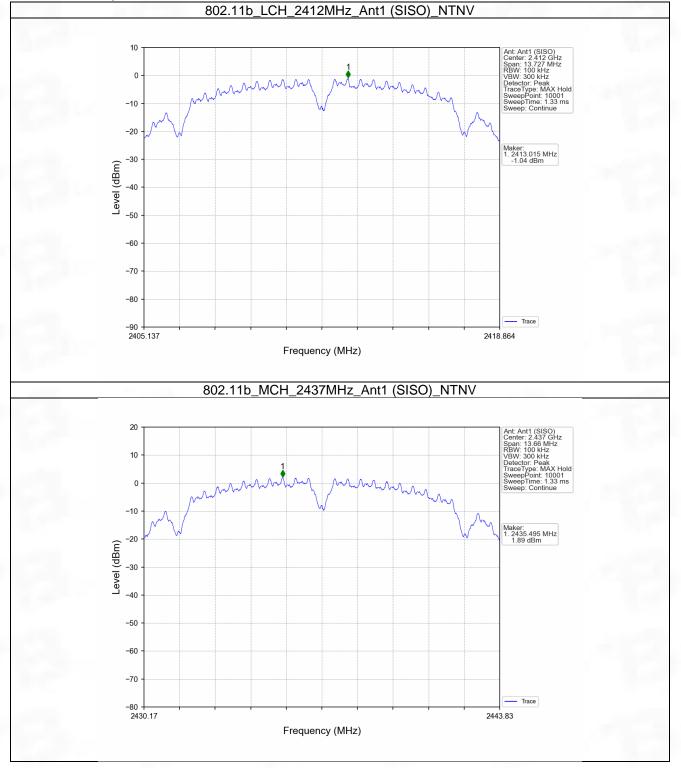
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	-1.04
802.11b	SISO	2437	1	1.89
		2462	1	-4.07
802.11g	SISO	2412	1	-3.90
		2437	1	-0.31
		2462	1	-5.89
802.11n (HT20)	SISO	2412	1	-4.69
		2437	1	-0.95
		2462	1	-6.32

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

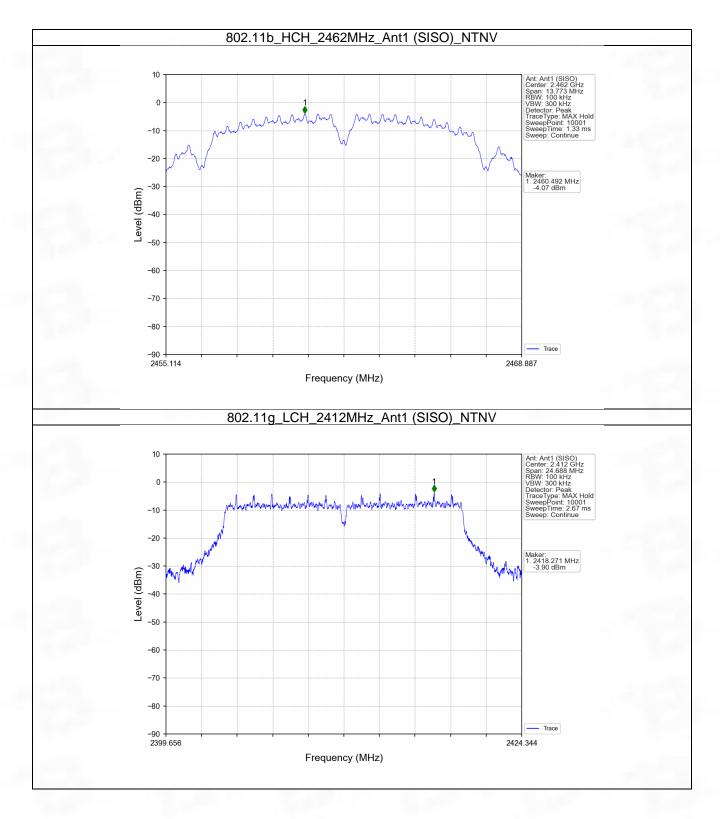
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



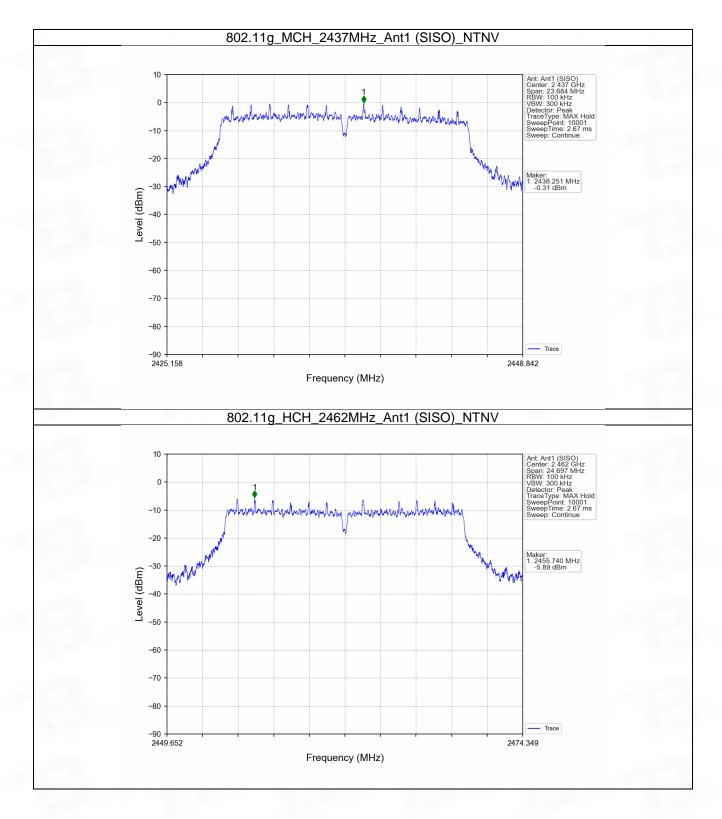
5.1.2 Test Graph





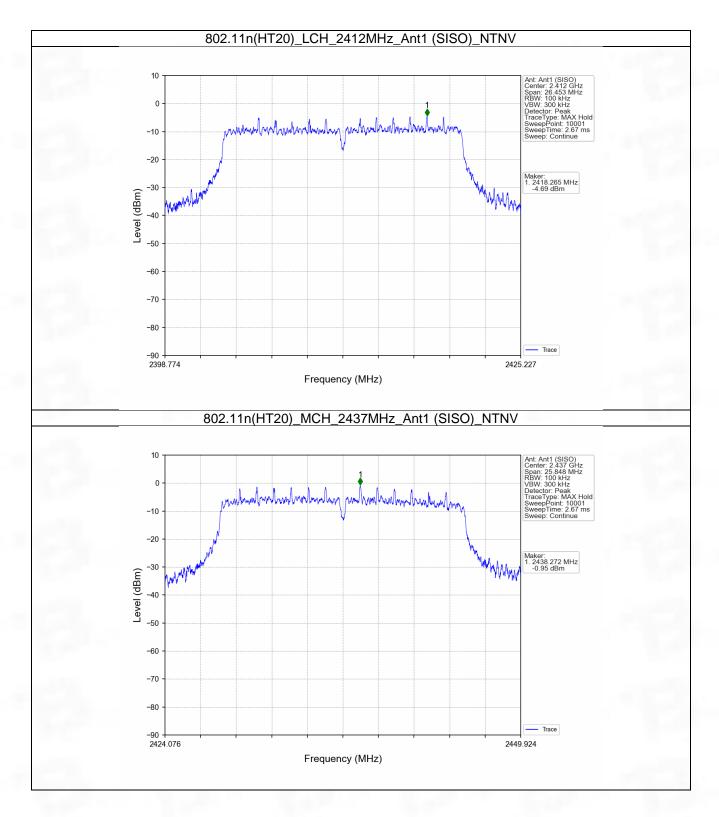






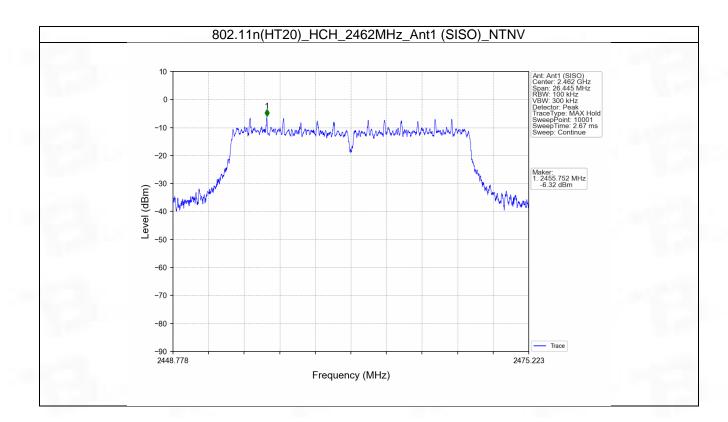
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5.2 CSE

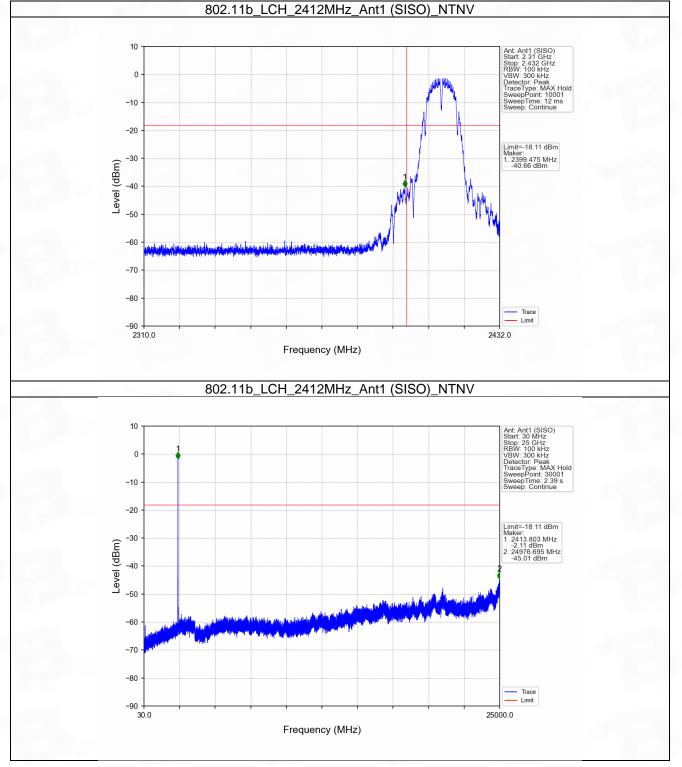
5.2.1 Test Result

Mode	TX	Frequency	ANT	Level of Reference	Limit	Verdict
Mode	Туре	(MHz)		(dBm)	(dBm)	Verdict
		2412	1	1.89	-18.11	Pass
802.11b	SISO	2437	1	1.89	-18.11	Pass
		2462	1	1.89	-18.11	Pass
	SISO	2412	1	-0.31	-20.31	Pass
802.11g		2437	1	-0.31	-20.31	Pass
		2462	1	-0.31	-20.31	Pass
000 11-	SISO	2412	1	-0.95	-20.95	Pass
802.11n (HT20)		2437	1	-0.95	-20.95	Pass
(1120)		2462	1	-0.95	-20.95	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level						
was used to e	establish the i	reference level.				

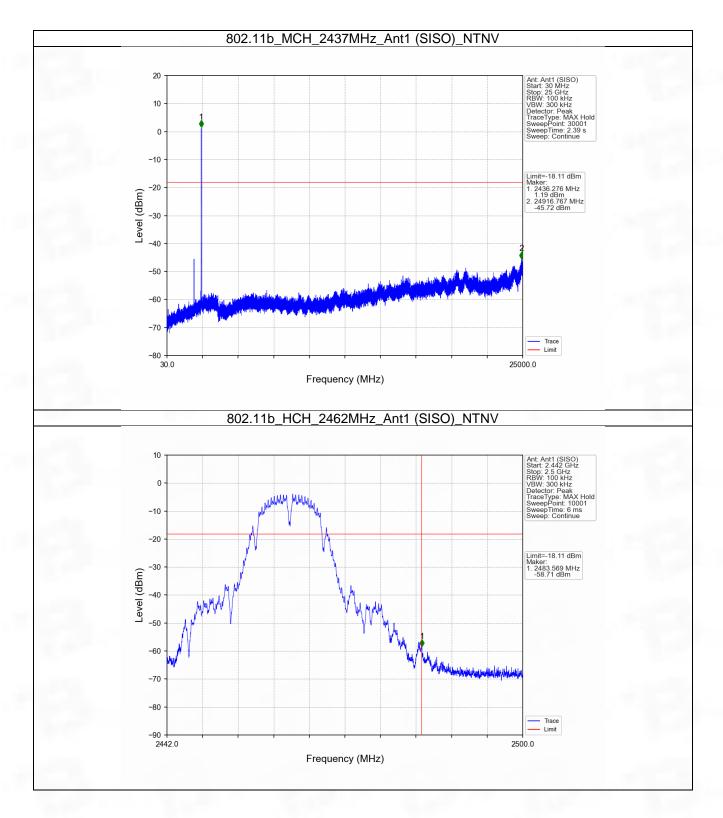
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



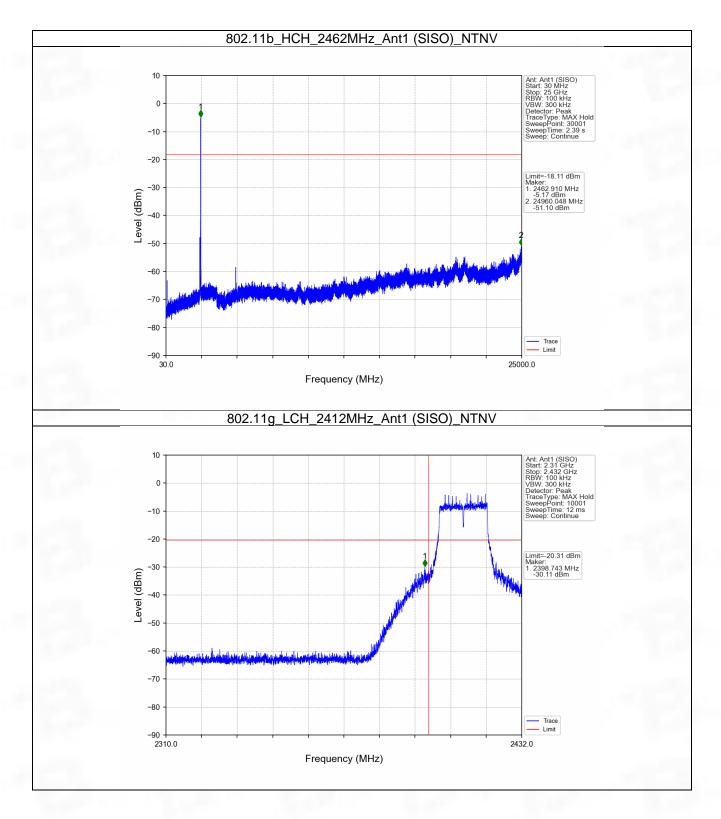
5.2.2 Test Graph



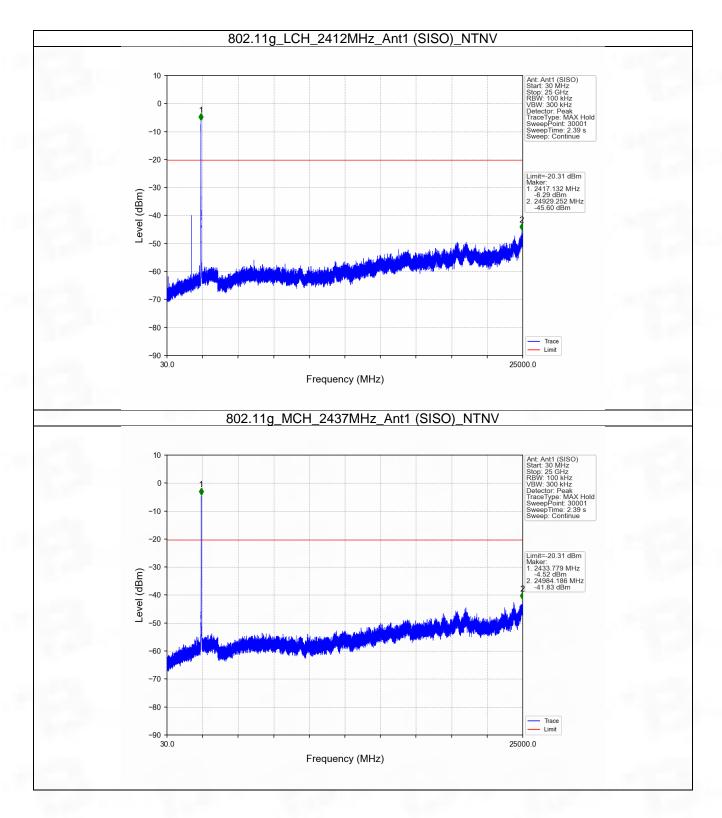




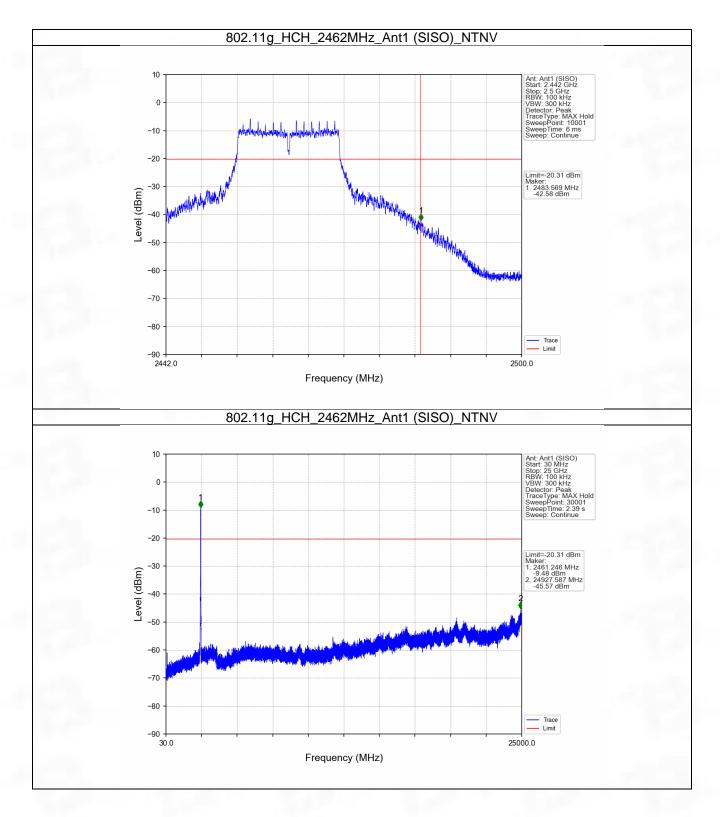






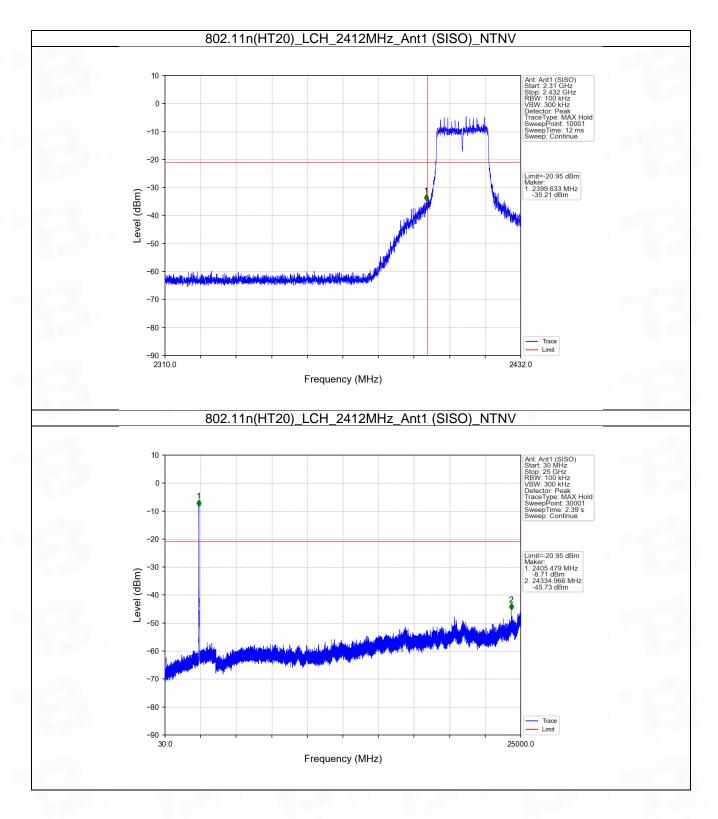




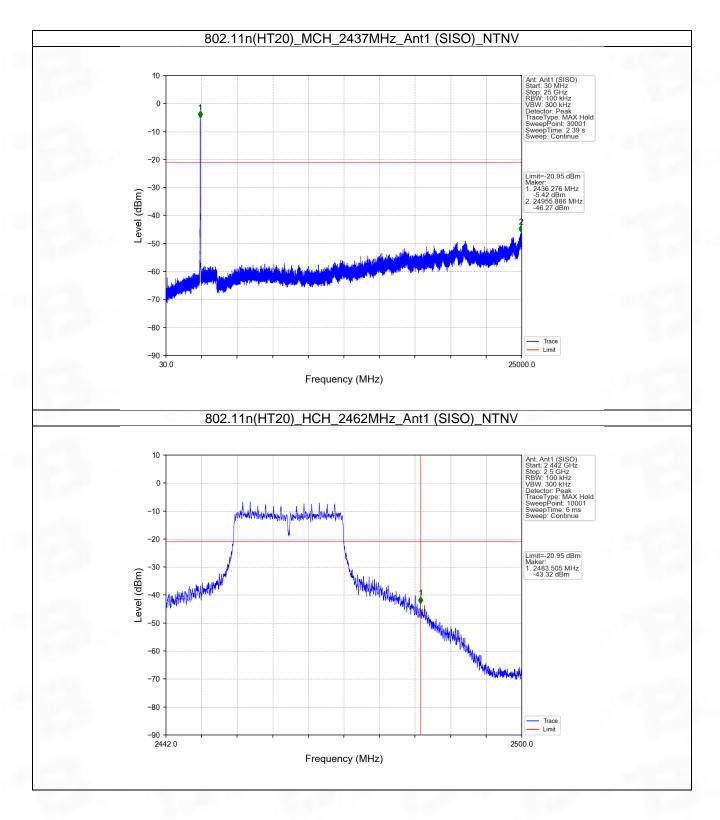


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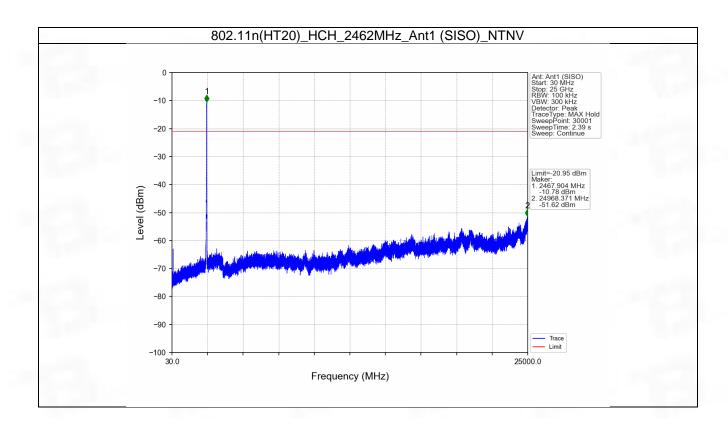














6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0649	18.12



Test Report Number: BTF231114R00403



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