

RF Test Report

For

Applicant Name: RDI Technology (Shenzhen) Co., Ltd

Address: Building 1#, Yongyue Road 7#, Xingtang Industrial Park, East

Baishixia, Fuyong, Baoan, Shenzhen, PRC

EUT Name: Wireless Camera

Brand Name: RDI Model Number: WD544

Issued By

Company Name: 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,

Address: Tantou Col China

Report Number: BTF231008R00501 Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass

FCC ID: SJ8WD544

Test Date: 2023-10-09 to 2023-11-23

Date of Issue: 2023-11-24

Prepared By: Aria Zhang

Aria Zhang / Project Fnginger

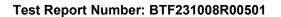
Date: 2023-11-24

Ryan.CJ / EMC Manager

Date: 2023-11-24

Approved By:

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.



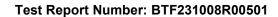


Revision History			
Version	Issue Date	Revisions Content	
R_V0	2023-11-24	Original	
Note: Once the revision has been made, then previous versions reports are invalid.			



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Test Report Number: BTF231008R00501



1 Introduction

1.1 Identification of Testing Laboratory

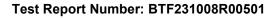
Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.	
A -1-1	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou
Address:	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:	RDI Technology (Shenzhen) Co., Ltd
Address:	Building 1#, Yongyue Road 7#, Xingtang Industrial Park, East Baishixia, Fuyong, Baoan, Shenzhen, PRC

2.2 Manufacturer Information

Company Name:	RDI Technology (Shenzhen) Co., Ltd
Address:	Building 1#, Yongyue Road 7#, Xingtang Industrial Park, East Baishixia, Fuyong, Baoan, Shenzhen, PRC

2.3 Factory Information

Company Name:	RDI Technology (Shenzhen) Co., Ltd
	Building 1#, Yongyue Road 7#, Xingtang Industrial Park, East Baishixia, Fuyong, Baoan, Shenzhen, PRC

2.4 General Description of Equipment under Test (EUT)

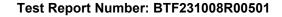
EUT Name:	Wireless Camera
Test Model Number:	WD544

2.5 Technical Information

Power Supply:	AC 230V 50Hz
Power Adaptor:	MODEL: CS7C050100FGF INPUT:100-240V~50/60Hz 0.2A OUTPUT 1.0A 5.0W
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
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 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type:	External Antenna
Antenna Gain [#] :	3dBi

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

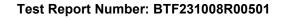
3.2 Uncertainty of Test

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



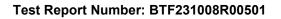


Test Configuration

Test Equipment List

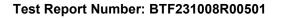
Conducted Emission at AC power line						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	1	1	
Coaxial Switcher	SCHWARZBECK	CX210	CX210	1	1	
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15	
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22	
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	1	V1.00	1	1	1	
RF Control Unit	Techy	TR1029-1	1	1	1	
RF Sensor Unit	Techy	TR1029-2	1	1	1	
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	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		CH2/			
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	1	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	1
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	1	1
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	1	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	1	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	1	1
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+	1	1	1
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	1	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12



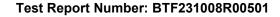


4.2 Test Auxiliary Equipment

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.
TM4	802.11n(HT40) mode	Keep the EUT in 802.11n(HT40) transmitting mode.





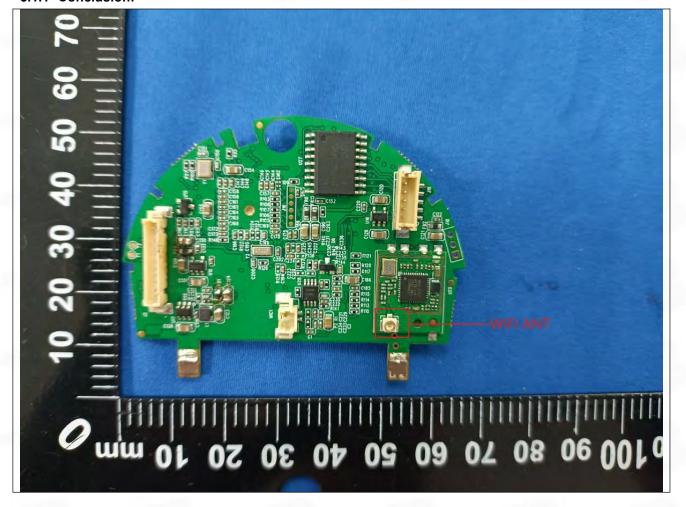
5 Evaluation Results (Evaluation)

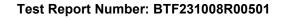
5.1 Antenna requirement

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:







Radio Spectrum Matter Test Results (RF) 6

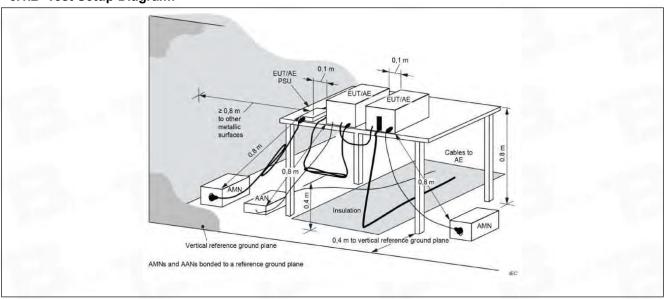
Conducted Emission at AC power line

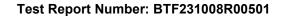
Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, 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 unlicen		outed for do power fille			

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.1 °C
Humidity:	47.5 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:

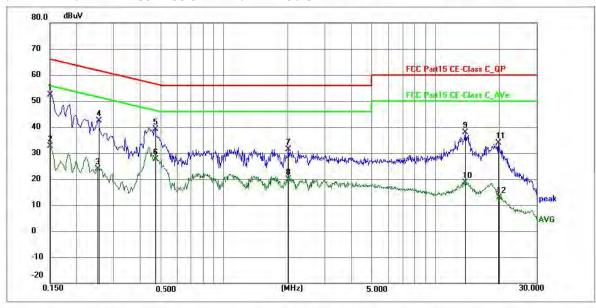




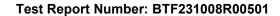


6.1.3 Test Data:

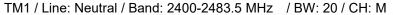
TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: M

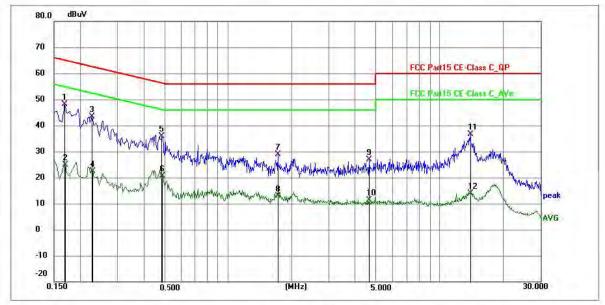


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1500	41.92	10.54	52.46	66.00	-13.54	QP	Р	
2	0.1500	22.13	10.54	32.67	56.00	-23.33	AVG	Р	
3	0.2521	13.26	10.59	23.85	51.69	-27.84	AVG	Р	
4	0.2535	31.79	10.59	42.38	61.64	-19.26	QP	Р	
5	0.4694	28.58	10.61	39.19	56.52	-17.33	QP	Р	
6	0.4740	17.00	10.61	27.61	46.44	-18.83	AVG	Р	
7	2.0220	20.68	10.69	31.37	56.00	-24.63	QP	Р	
8	2.0220	9.12	10.69	19.81	46.00	-26.19	AVG	Р	
9	13.8660	27.03	10.93	37.96	60.00	-22.04	QP	Р	
10	13.8660	7.58	10.93	18.51	50.00	-31.49	AVG	Р	
11	19.8644	22.90	11.02	33.92	60.00	-26.08	QP	Р	
12	19.9680	1.89	11.02	12.91	50.00	-37.09	AVG	P	

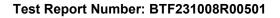








1 * 0.1680 37.56 10.56 48.12 65.06 -16.94 QP P 2 0.1694 14.23 10.56 24.79 54.99 -30.20 AVG P 3 0.2265 32.84 10.59 43.43 62.58 -19.15 QP P 4 0.2280 11.84 10.59 22.43 52.52 -30.09 AVG P 5 0.4830 25.21 10.61 35.82 56.29 -20.47 QP P 6 0.4863 10.10 10.61 20.71 46.23 -25.52 AVG P 7 1.7204 18.28 10.72 29.00 56.00 -27.00 QP P 8 1.7204 2.05 10.72 12.77 46.00 -33.23 AVG P	No.	Frequency (MHz)		ading Factor BuV) (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
3 0.2265 32.84 10.59 43.43 62.58 -19.15 QP P 4 0.2280 11.84 10.59 22.43 52.52 -30.09 AVG P 5 0.4830 25.21 10.61 35.82 56.29 -20.47 QP P 6 0.4863 10.10 10.61 20.71 46.23 -25.52 AVG P 7 1.7204 18.28 10.72 29.00 56.00 -27.00 QP P	*	0.1680	0.1680 37	7.56 10.56	48.12	65.06	-16.94	QP	Р	
4 0.2280 11.84 10.59 22.43 52.52 -30.09 AVG P 5 0.4830 25.21 10.61 35.82 56.29 -20.47 QP P 6 0.4863 10.10 10.61 20.71 46.23 -25.52 AVG P 7 1.7204 18.28 10.72 29.00 56.00 -27.00 QP P	2	0.1694	0.1694 14	1.23 10.56	24.79	54.99	-30.20	AVG	Р	
5 0.4830 25.21 10.61 35.82 56.29 -20.47 QP P 6 0.4863 10.10 10.61 20.71 46.23 -25.52 AVG P 7 1.7204 18.28 10.72 29.00 56.00 -27.00 QP P	3	0.2265	0.2265 32	2.84 10.59	43.43	62.58	-19.15	QP	Р	
6 0.4863 10.10 10.61 20.71 46.23 -25.52 AVG P 7 1.7204 18.28 10.72 29.00 56.00 -27.00 QP P	4	0.2280	0.2280 11	1.84 10.59	22.43	52.52	-30.09	AVG	Р	
7 1.7204 18.28 10.72 29.00 56.00 -27.00 QP P	5	0.4830	0.4830 25	5.21 10.61	35.82	56.29	-20.47	QP	Р	
	6	0.4863	0.4863 10	0.10 10.61	20.71	46.23	-25.52	AVG	Р	
8 1.7204 2.05 10.72 12.77 46.00 -33.23 AVG P	7	1.7204	1.7204 18	3.28 10.72	29.00	56.00	-27.00	QP	P	
	8	1.7204	1.7204 2.	.05 10.72	12.77	46.00	-33.23	AVG	Р	
9 4.6455 16.12 10.79 26.91 56.00 -29.09 QP P	9	4.6455	4.6455 16	6.12 10.79	26.91	56.00	-29.09	QP	Р	
10 4.6455 0.54 10.79 11.33 46.00 -34.67 AVG P	0	4.6455	4.6455 0.	.54 10.79	11.33	46.00	-34.67	AVG	Р	
11 13.9964 25.72 10.85 36.57 60.00 -23.43 QP P	1	13.9964	13.9964 25	5.72 10.85	36.57	60.00	-23.43	QP	Р	
12 13.9964 3.00 10.85 13.85 50.00 -36.15 AVG P	2	13.9964	13.9964 3.	.00 10.85	13.85	50.00	-36.15	AVG	Р	





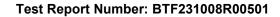
6.2 Occupied Bandwidth

6.2 Occupied Band	
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 = 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. 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 might be ≥ 6 dB.

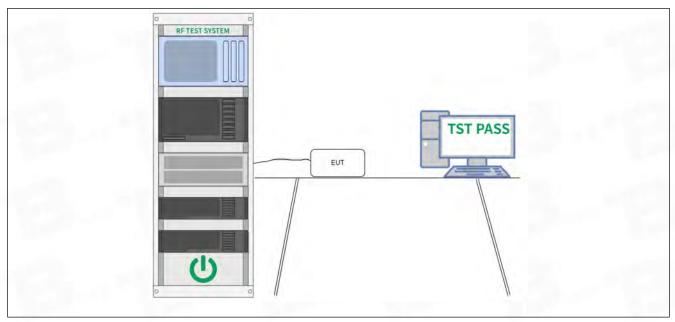
6.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.5 °C		
Humidity:	51.1 %		
Atmospheric Pressure:	1010 mbar		

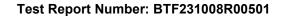
6.2.2 Test Setup Diagram:







6.2.3 Test Data:





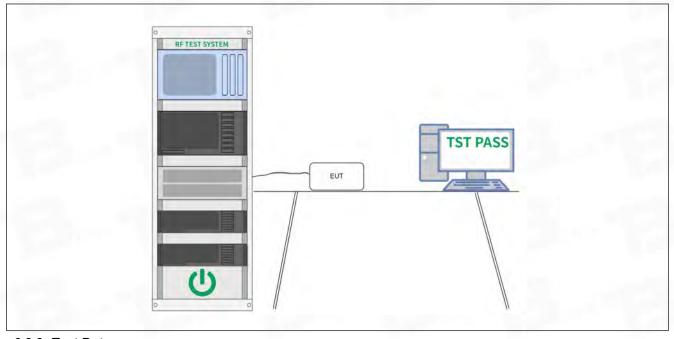
6.3 Maximum Conducted Output Power

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

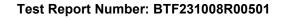
6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.5 °C
Humidity:	51.1 %
Atmospheric Pressure:	1010 mbar

6.3.2 Test Setup Diagram:



6.3.3 Test Data:





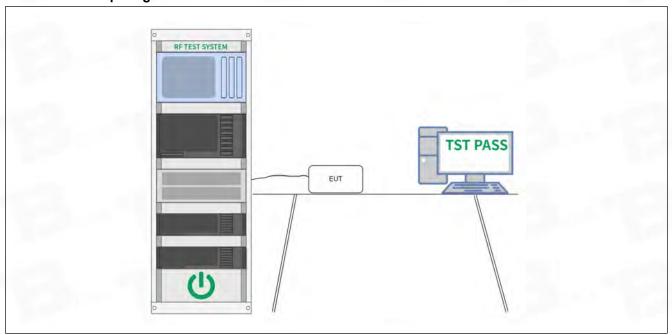
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test 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 emission ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

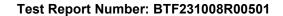
6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.5 °C
Humidity:	51.1 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:





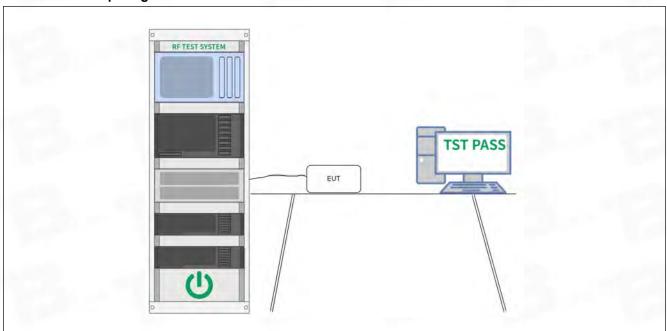
6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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

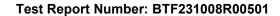
6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.5 °C
Humidity:	51.1 %
Atmospheric Pressure:	1010 mbar

6.5.2 Test Setup Diagram:



6.5.3 Test Data:





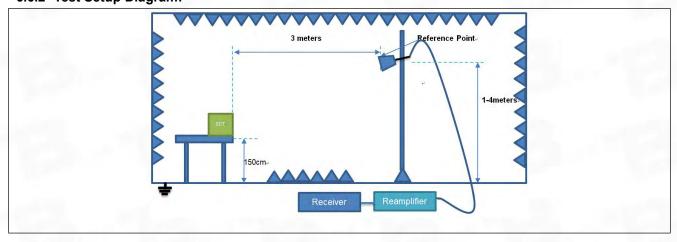
6.6 Band edge emissions (Radiated)

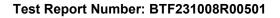
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`					
Test Method:	ANSI C63.10-2013 section 6.10 ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02					
	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			
Test Limit:	** 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.					
Procedure:	ANSI C63.10-2013 secti	on 6.10.5.2	100			
Trocedure.	ANSI C63.10-2020 secti	on 6.10.5.2				

6.6.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.7 °C		
Humidity:	48.6 %		
Atmospheric Pressure:	1010 mbar		

6.6.2 Test Setup Diagram:







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: 20 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	37.82	-3.94	33.88	74.00	-40.12	peak	P
2	2310.000	26.82	-3.94	22.88	54.00	-31.12	AVG	Р
3	2390.000	40.12	-3.56	36.56	74.00	-37.44	peak	P
4	2390.000	29.01	-3.56	25.45	54.00	-28.55	AVG	Р
5	2400.000	52.35	-3.52	48.83	74.00	-25.17	peak	P
6 *	2400.000	46.82	-3.52	43.30	54.00	-10.70	AVG	P

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

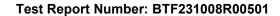
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	44.51	-3.21	41.30	74.00	-32.70	peak	Р
2	2310.000	33.44	-3.21	30.23	54.00	-23.77	AVG	Р
3	2390.000	52.21	-2.81	49.40	74.00	-24.60	peak	Р
4	2390.000	41.38	-2.81	38.57	54.00	-15.43	AVG	Р
5	2400.000	66.68	-2.76	63.92	74.00	-10.08	peak	Р
6 *	2400.000	50.84	-2.76	48.08	54.00	-5.92	AVG	Р

TM1 / Polarization: Horizontal / 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	74.42	-30.39	44.03	74.00	-29.97	peak	P
2	2483.500	74.42	-30.39	44.03	74.00	-29.97	peak	Р
3 *	2483.500	67.56	-30.39	37.17	54.00	-16.83	AVG	P
4	2500.000	66.75	-30.37	36.38	74.00	-37.62	peak	Р
5	2500.000	66.75	-30.37	36.38	74.00	-37.62	peak	Р
6	2500.000	55.81	-30.37	25.44	54.00	-28.56	AVG	P

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	83.01	-30.39	52.62	74.00	-21.38	peak	Р
2	2483.500	83.01	-30.39	52.62	74.00	-21.38	peak	Р
3 *	2483.500	77.63	-30.39	47.24	54.00	-6.76	AVG	P
4	2500.000	77.11	-30.37	46.74	74.00	-27.26	peak	Р
5	2500.000	77.11	-30.37	46.74	74.00	-27.26	peak	Р
6	2500.000	67.51	-30.37	37.14	54.00	-16.86	AVG	Р





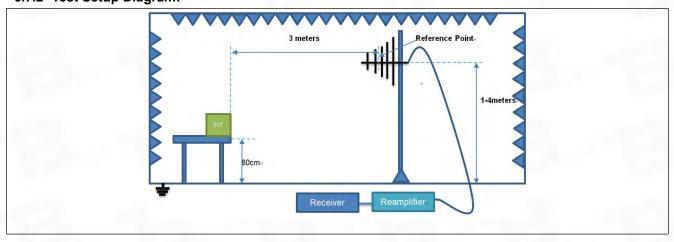
6.7 Emissions in frequency bands (below 1GHz)

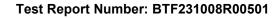
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`						
Test Method:	ANSI C63.10-2013 section 6.6.4 ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02						
	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				
Test Limit:	** 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.						
Dunnadium	ANSI C63.10-2013 secti						
Procedure:	ANSI C63.10-2020 secti	ANSI C63.10-2020 section 6.6.4					

6.7.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.7 °C		
Humidity:	48.6 %		
Atmospheric Pressure:	1010 mbar		

6.7.2 Test Setup Diagram:

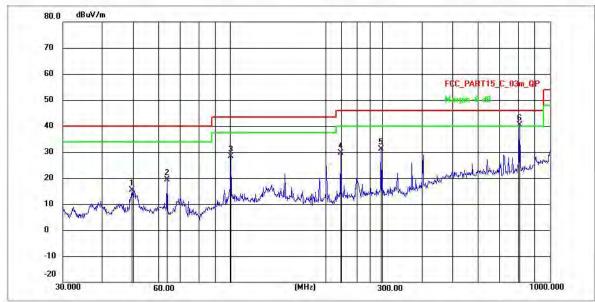






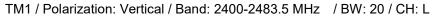
6.7.3 Test Data:

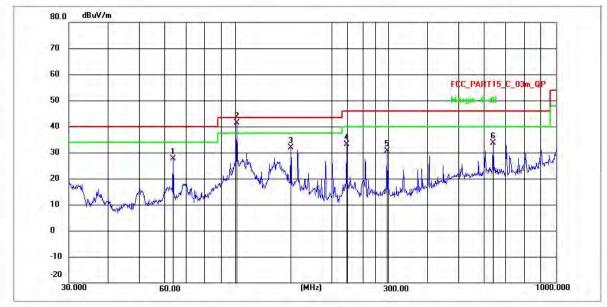
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



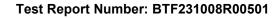
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	49.4460	33.62	-18.28	15.34	40.00	-24.66	QP	Р
2	63.5356	37.52	-18.16	19.36	40.00	-20.64	QP	Р
3	100.4045	43.11	-14.64	28.47	43.50	-15.03	QP	P
4	222.9502	46.28	-16.59	29.69	46.00	-16.31	QP	Р
5	297.2241	47.23	-16.08	31.15	46.00	-14.85	QP	Р
6 *	804.6028	63.96	-23.64	40.32	46.00	-5.68	QP	Р
_		1		4				







No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	63.5356	47.08	-19.54	27.54	40.00	-12.46	QP	Р
2 *	100.4045	60.11	-18.61	41.50	43.50	-2.00	QP	Р
3	148.4410	46.05	-14.13	31.92	43.50	-11.58	QP	Р
4	222.9502	47.40	-14.23	33.17	46.00	-12.83	QP	P
5	297.2241	42.97	-12.43	30.54	46.00	-15.46	QP	Р
6	636.1340	37.27	-3.75	33.52	46.00	-12.48	QP	Р





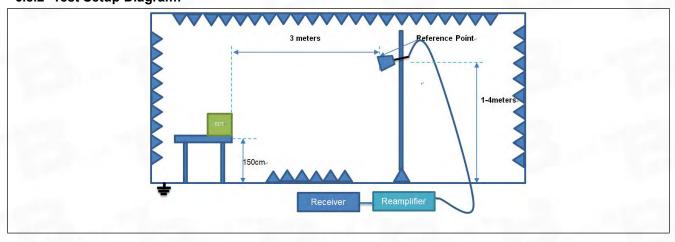
6.8 Emissions in frequency bands (above 1GHz)

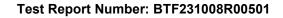
Test Requirement:	·	ssions which fall in the restricte mply with the radiated emission c)).`	,				
Test Method:	ANSI C63.10-2013 section 6.6.4 ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02						
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)				
	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				
	** 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.						
	ANSI C63.10-2013 secti						
Procedure:	ANSI C63.10-2020 secti	on 6.6.4					

6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.7 °C		
Humidity:	48.6 %		
Atmospheric Pressure:	1010 mbar		

6.8.2 Test Setup Diagram:







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: 20 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3780.514	72.26	-29.03	43.23	74.00	-30.77	peak	Р
2	5274.220	73.05	-27.14	45.91	74.00	-28.09	peak	Р
3	6702.246	73.68	-25.20	48.48	74.00	-25.52	peak	Р
4	7204.472	73.68	-24.87	48.81	74.00	-25.19	peak	Р
5	8904.584	72.03	-24.50	47.53	74.00	-26.47	peak	Р
6 *	10977.296	74.70	-23.49	51.21	74.00	-22.79	peak	Р

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

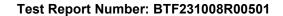
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3357.061	73.56	-29.19	44.37	74.00	-29.63	peak	Р
2	4137.284	73.31	-28.94	44.37	74.00	-29.63	peak	Р
3	5797.032	74.63	-25.99	48.64	74.00	-25.36	peak	Р
4	7635.424	72.51	-24.98	47.53	74.00	-26.47	peak	Р
5	9508.419	76.37	-23.22	53.15	74.00	-20.85	peak	Р
6 *	11056.905	77.56	-23.40	54.16	74.00	-19.84	peak	Р

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	3462.506	77.21	-29.09	48.12	74.00	-25.88	peak	Р
2	5260.518	75.92	-27.15	48.77	74.00	-25.23	peak	Р
3	5480.919	75.56	-26.96	48.60	74.00	-25.40	peak	Р
4	8286.237	76.19	-25.41	50.78	74.00	-23.22	peak	Р
5	9229.518	76.43	-23.80	52.63	74.00	-21.37	peak	Р
6 *	12251.683	75.13	-21.90	53.23	74.00	-20.77	peak	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	3298.390	72.68	-29.24	43.44	74.00	-30.56	peak	Р
2	4621.600	71.95	-28.44	43.51	74.00	-30.49	peak	Р
3	6265.742	72.87	-25.36	47.51	74.00	-26.49	peak	Р
4	7229.504	75.03	-24.86	50.17	74.00	-23.83	peak	Р
5	9558.017	75.17	-23.33	51.84	74.00	-22.16	peak	Р
6 *	12898.511	74.63	-21.40	53.23	74.00	-20.77	peak	Р



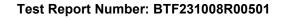


TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4896.635	73.63	-27.67	45.96	74.00	-28.04	peak	Р
2	5528.651	74.63	-26.86	47.77	74.00	-26.23	peak	Р
3	5979.118	75.56	-25.39	50.17	74.00	-23.83	peak	Р
4	7512.831	74.99	-24.80	50.19	74.00	-23.81	peak	Р
5	9126.063	75.74	-24.03	51.71	74.00	-22.29	peak	Р
6 *	12523.791	73.45	-21.60	51.85	74.00	-22.15	peak	Р

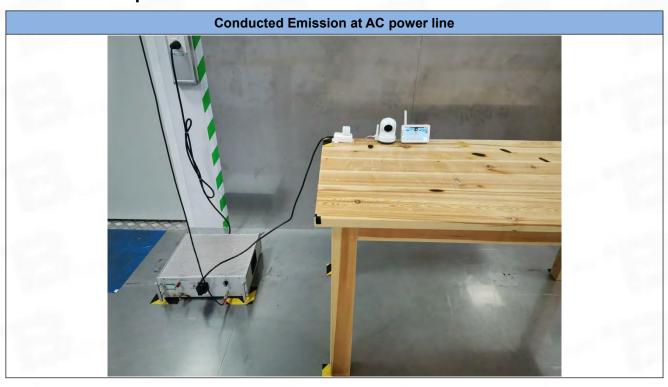
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

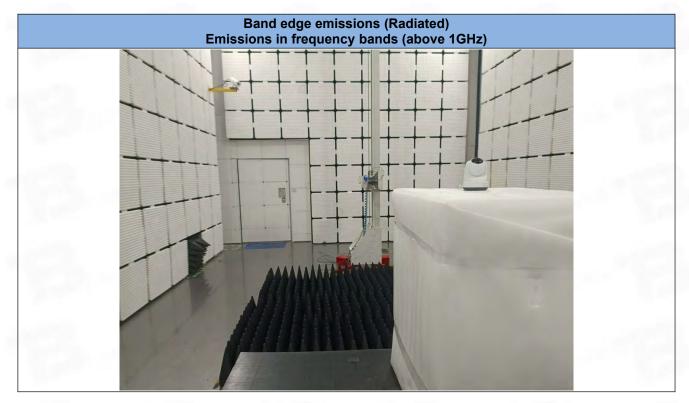
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3566.107	67.29	-29.05	38.24	74.00	-35.76	peak	Р
2	4844.548	65.29	-27.81	37.48	74.00	-36.52	peak	Р
3	7221.150	69.86	-24.86	45.00	74.00	-29.00	peak	Р
4	8271.879	71.08	-25.42	45.66	74.00	-28.34	peak	Р
5	10493.325	73.53	-24.51	49.02	74.00	-24.98	peak	Р
6 *	15003.422	72.84	-20.41	52.43	74.00	-21.57	peak	Р

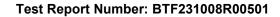




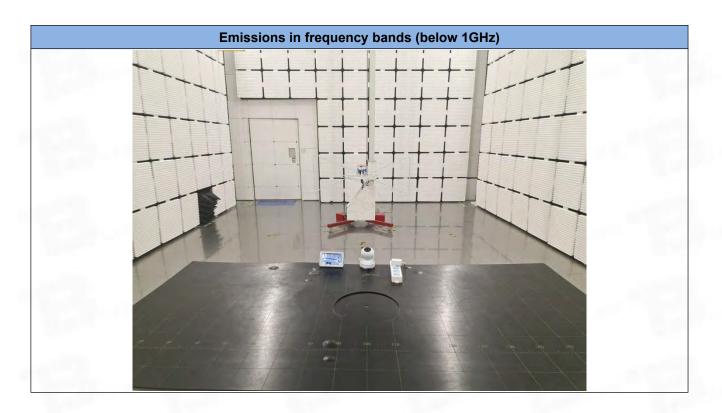
Test Setup Photos

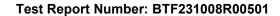














8 EUT Constructional Details (EUT Photos)

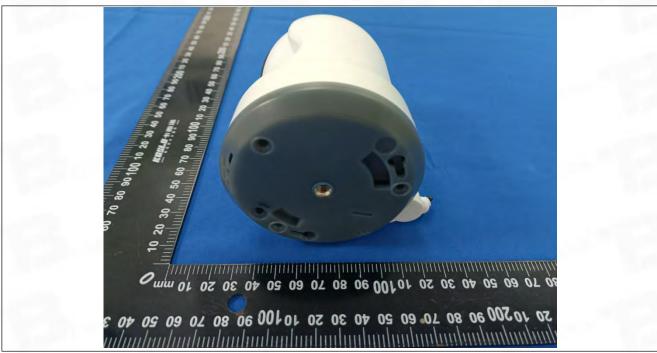










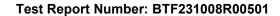










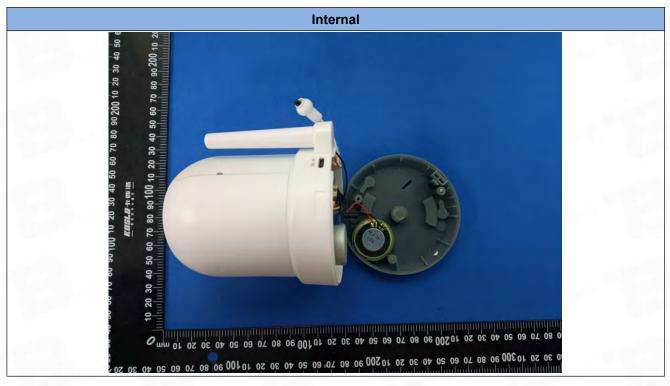














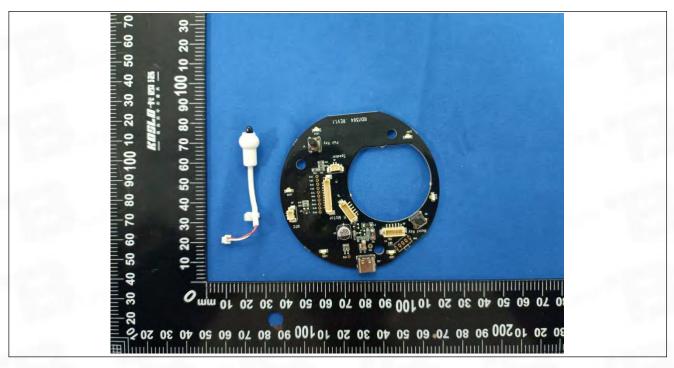


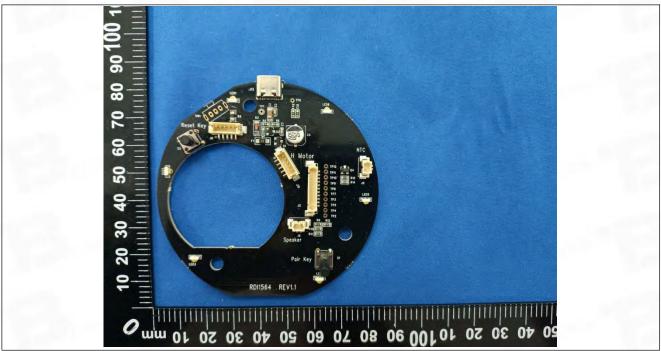








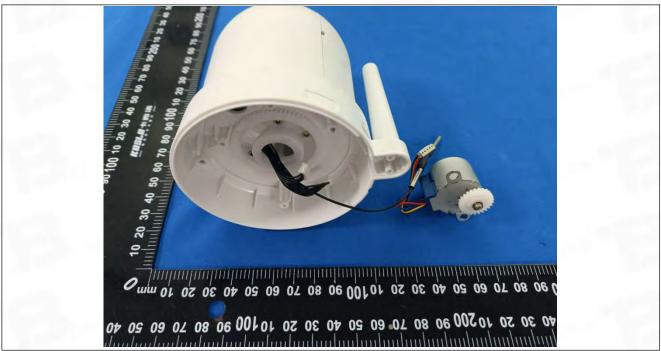






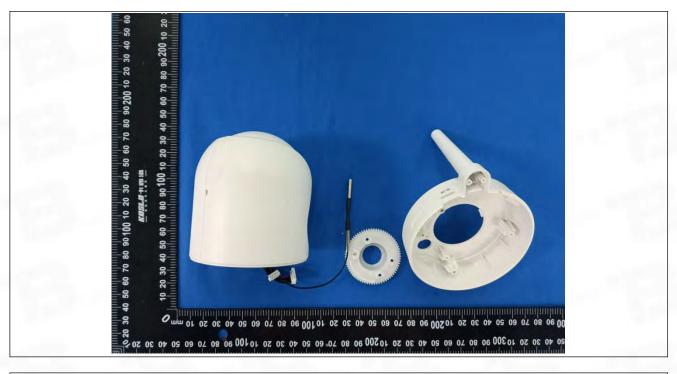






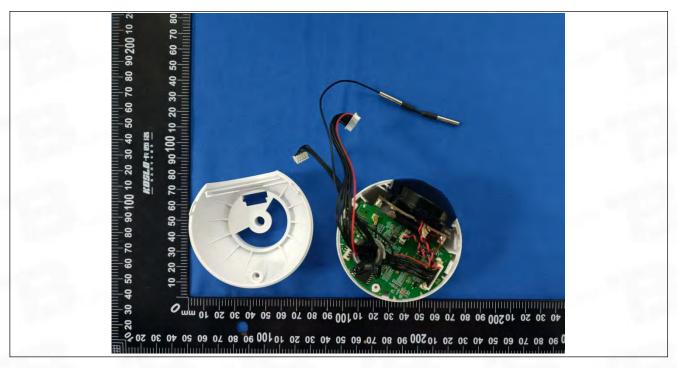






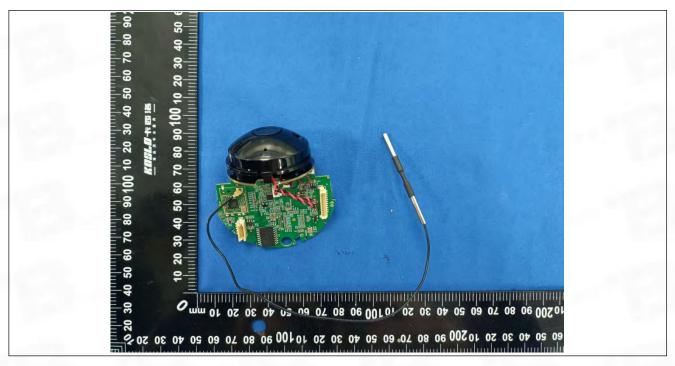


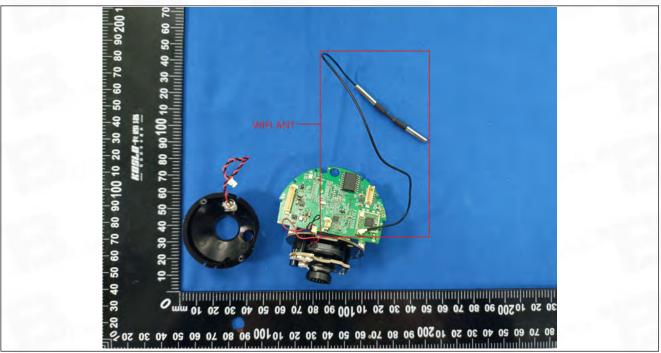






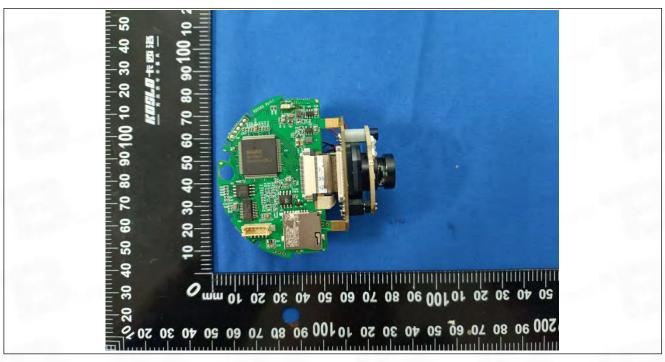


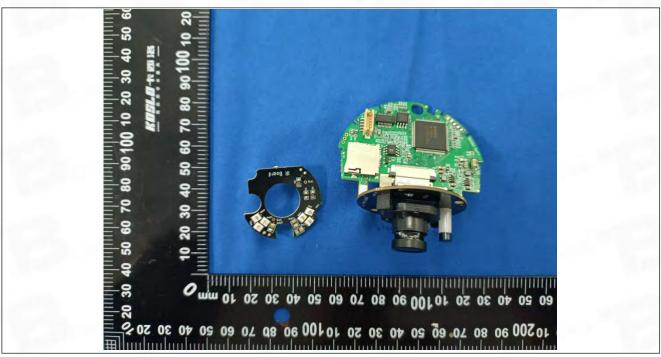


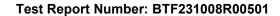






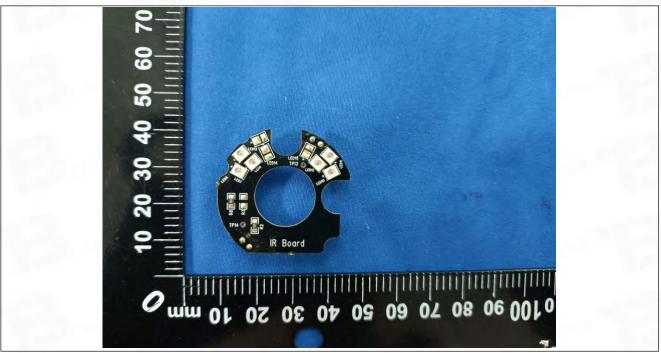


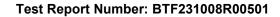




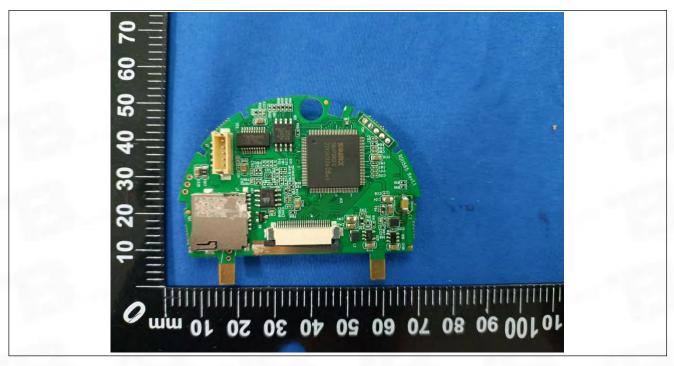


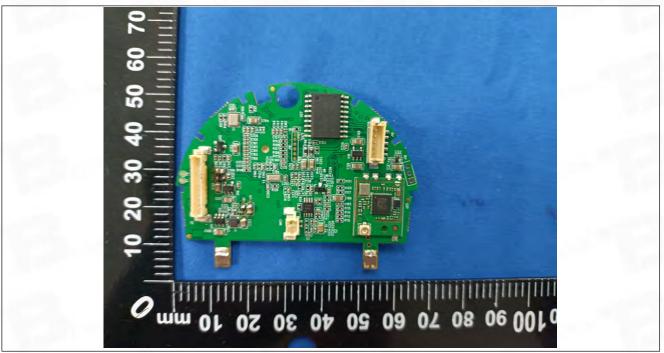


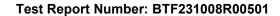






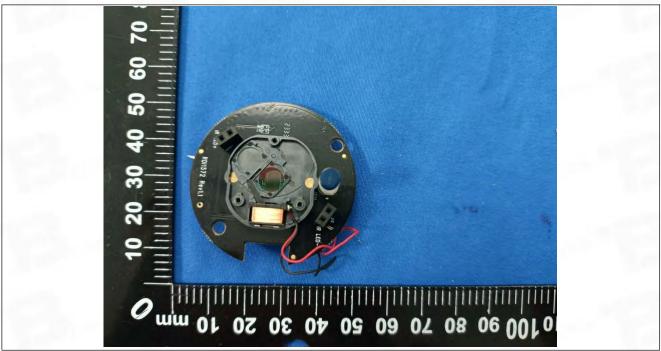


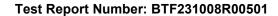




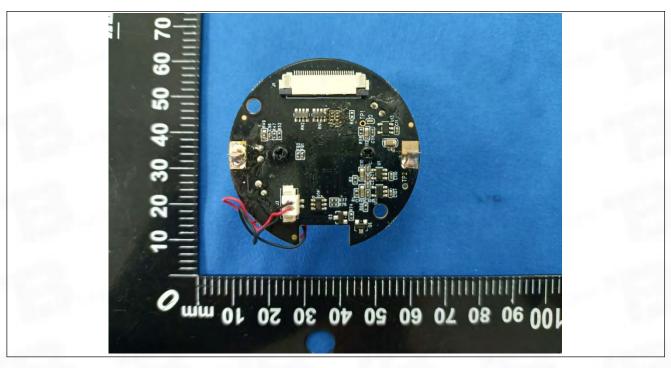




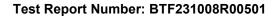






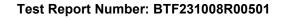








Appendix





1. Duty Cycle

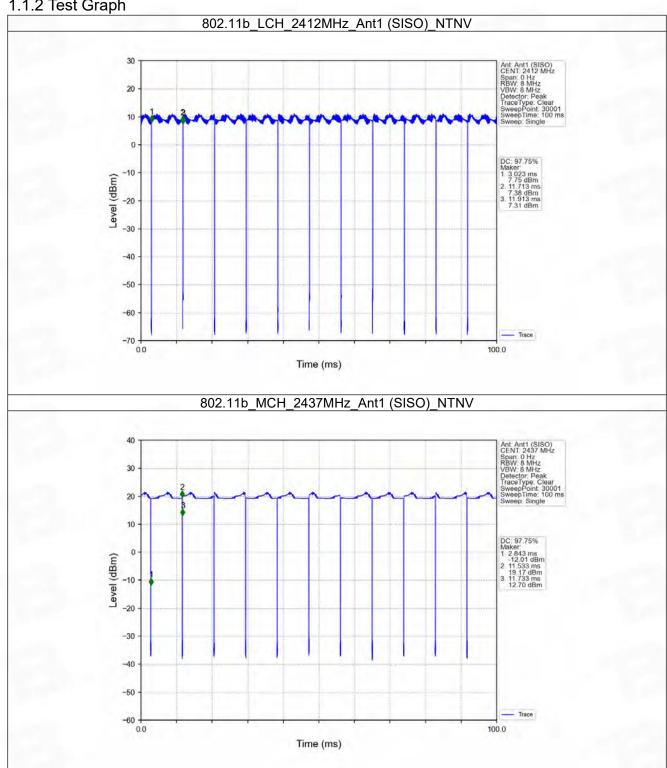
1.1 Ant1

1.1.1 Test Result

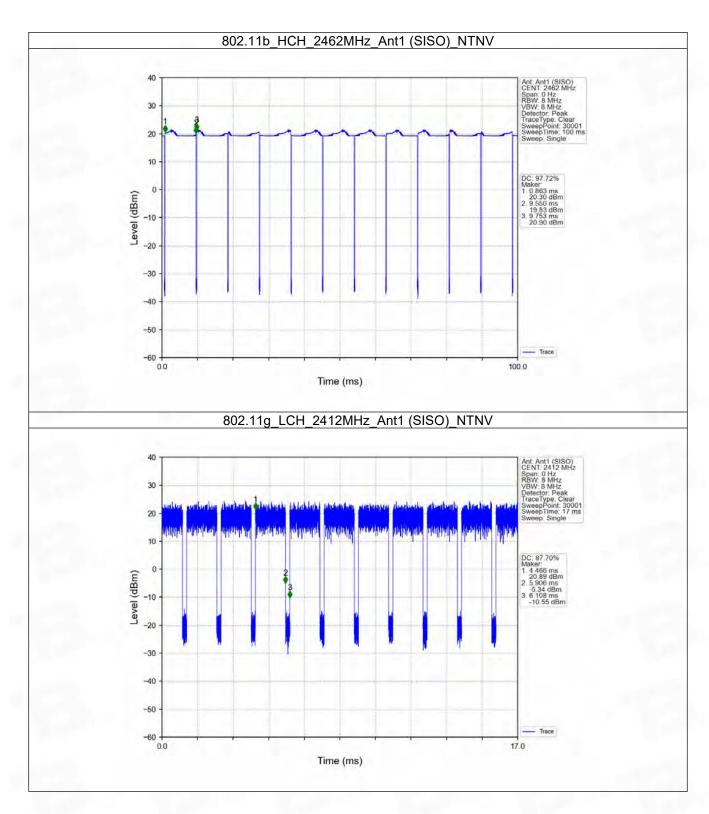
					Ant1		
Modo	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Mode T	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
802.11b SISC		2412	8.690	8.890	97.75	0.10	0.00
	SISO	2437	8.690	8.890	97.75	0.10	0.00
		2462	8.687	8.890	97.72	0.10	0.04
		2412	1.440	1.642	87.70	0.57	0.00
802.11g	SISO	2437	1.440	1.641	87.75	0.57	0.03
		2462	1.441	1.642	87.76	0.57	0.03
802.11n (HT20)	SISO	2412	1.349	1.550	87.03	0.60	0.03
		2437	1.349	1.550	87.03	0.60	0.00
		2462	1.349	1.550	87.03	0.60	0.03
802.11n (HT40)	SISO	2422	0.668	0.869	76.87	1.14	0.03
		2437	0.668	0.869	76.87	1.14	0.03
		2452	0.669	0.870	76.90	1.14	0.03



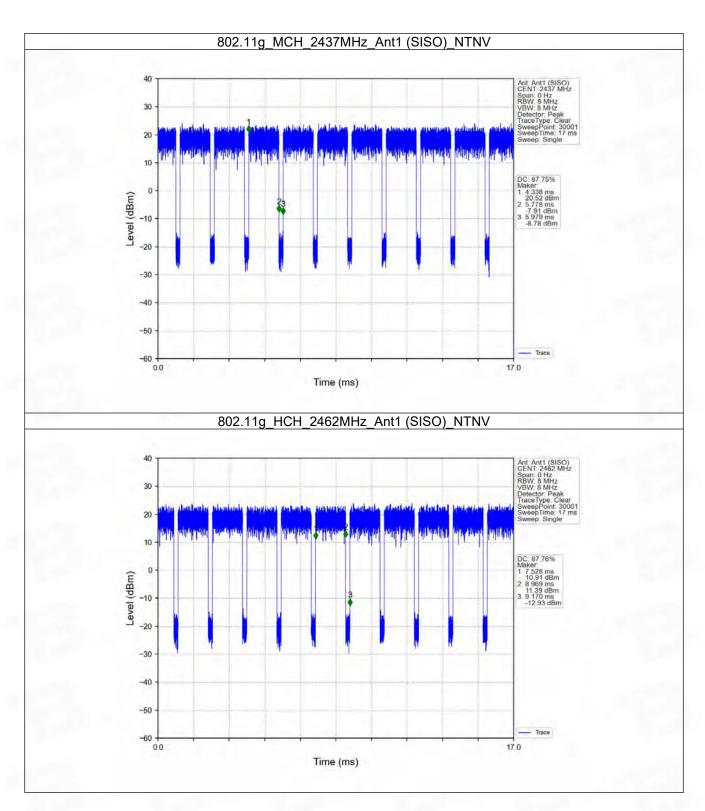
1.1.2 Test Graph



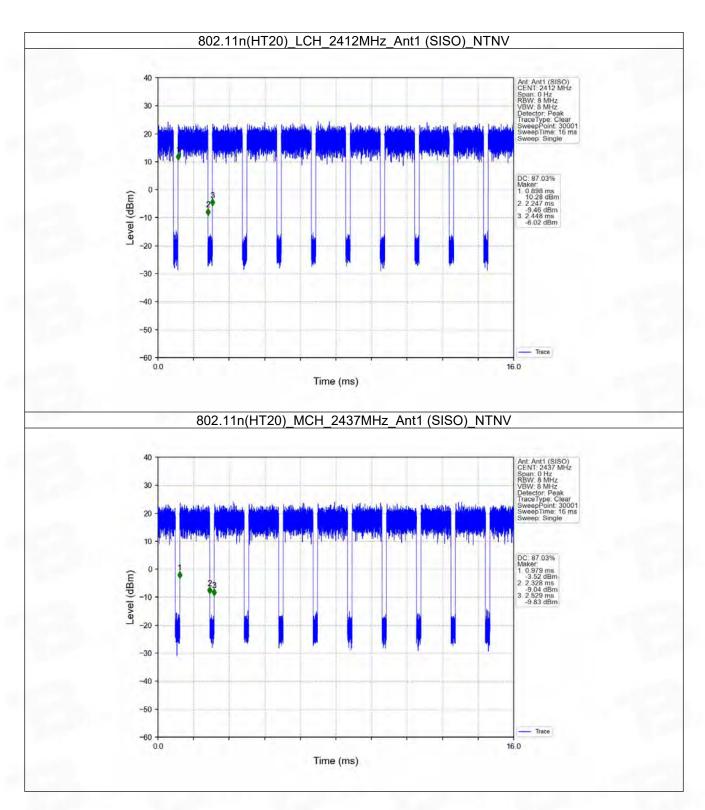




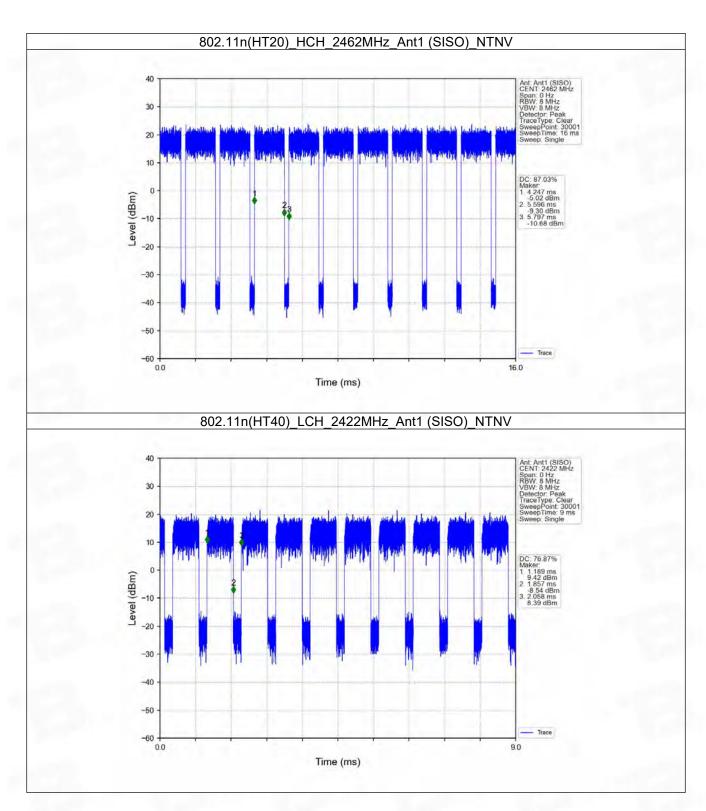




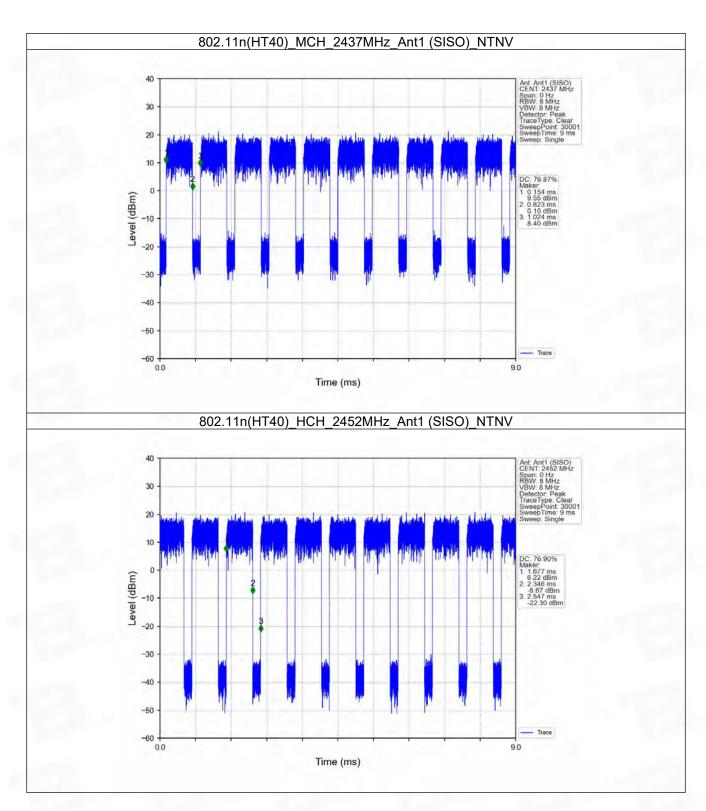


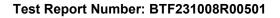














2. Bandwidth

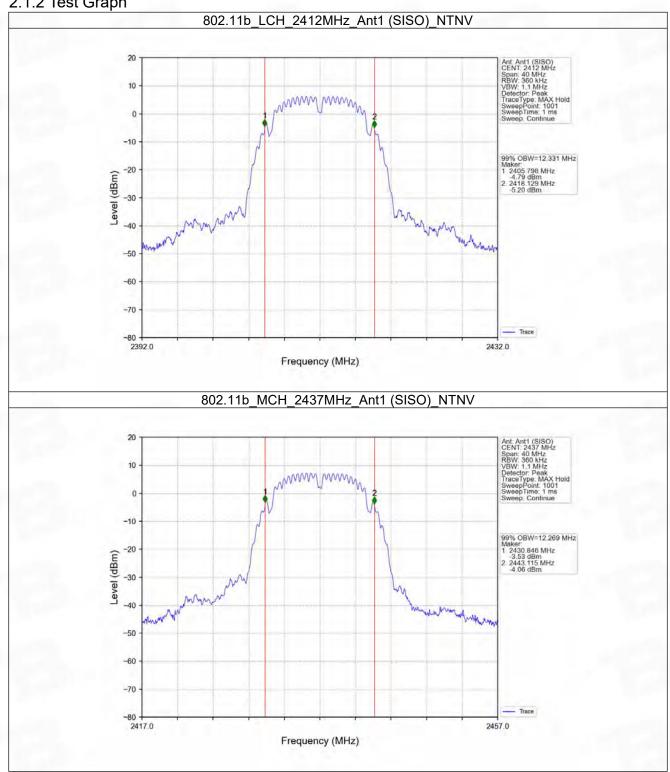
2.1 OBW

2.1.1 Test Result

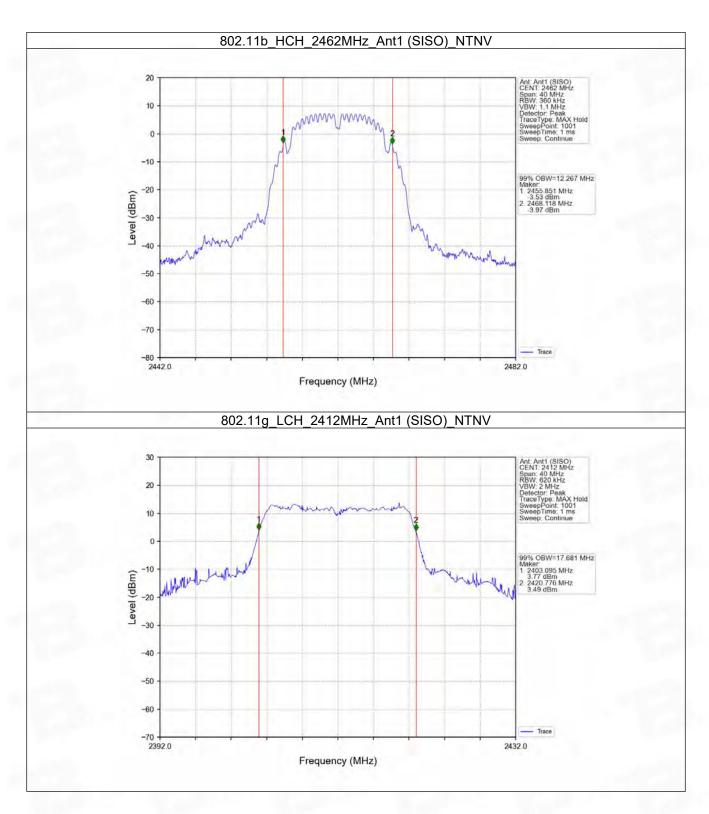
Mode	TX	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Mondiet
	Type			Result	Limit	Verdict
802.11b	SISO	2412	1	12.331	1	Pass
		2437	1	12.269	1	Pass
		2462	1	12.267	1	Pass
802.11g	SISO	2412	1	17.681	1	Pass
		2437	1	17.650	1	Pass
		2462	1	17.722	1	Pass
802.11n (HT20)	SISO	2412	1	18.327	1	Pass
		2437	1	18.494	1	Pass
		2462	1	18.717	1	Pass
802.11n (HT40)	SISO	2422	1	36.403	1	Pass
		2437	1	36.440	1	Pass
		2452	1	36.493	1	Pass



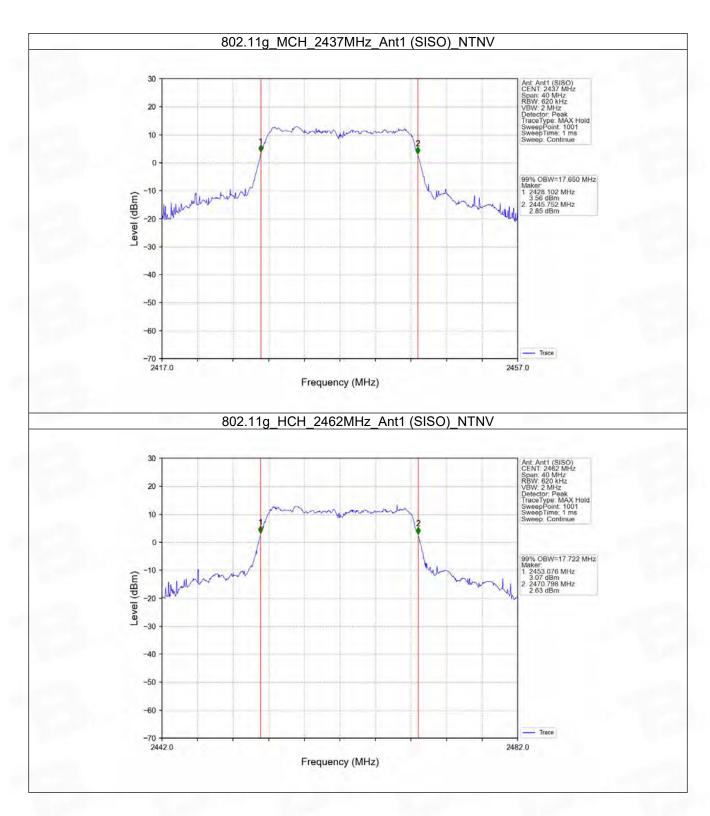
2.1.2 Test Graph



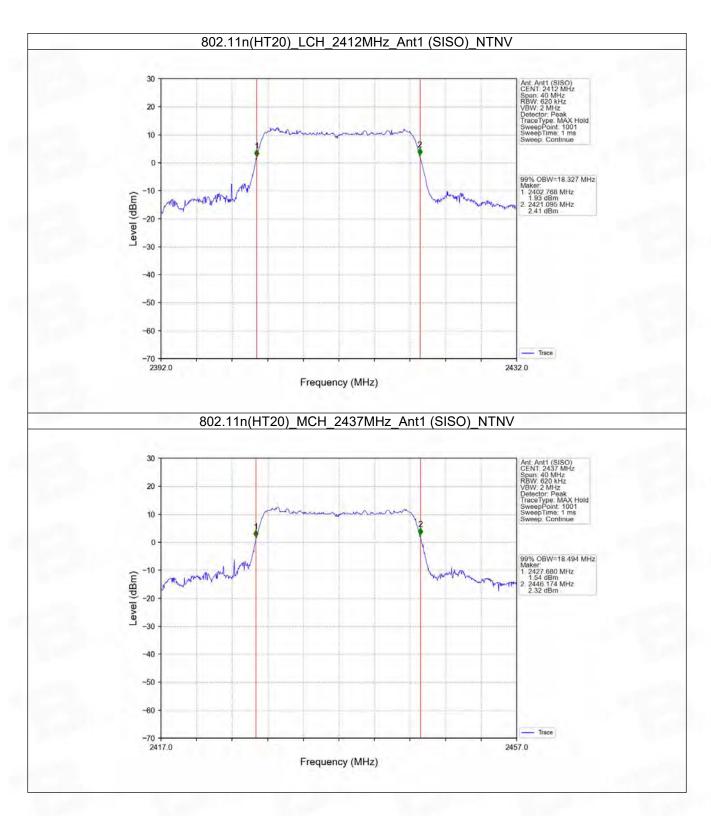




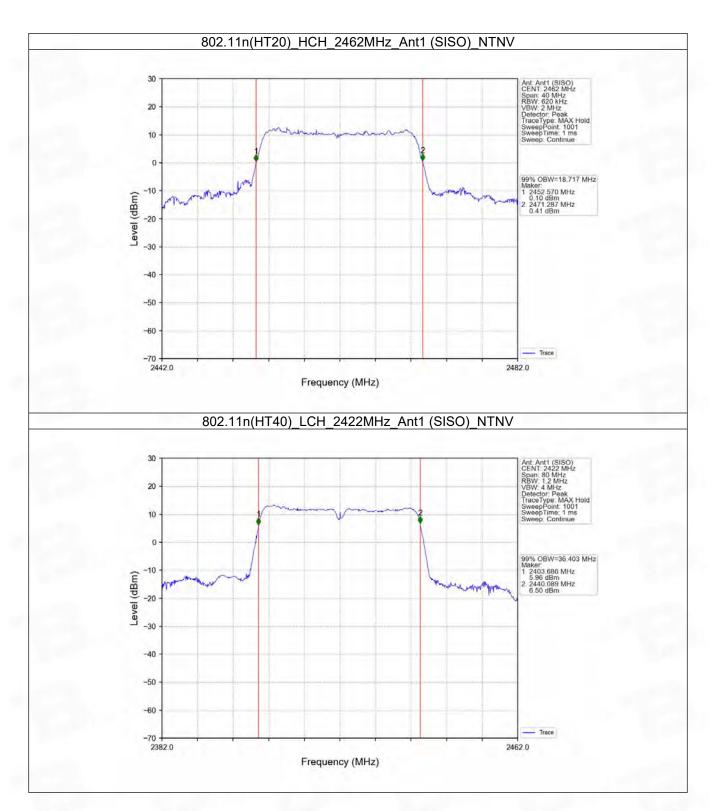




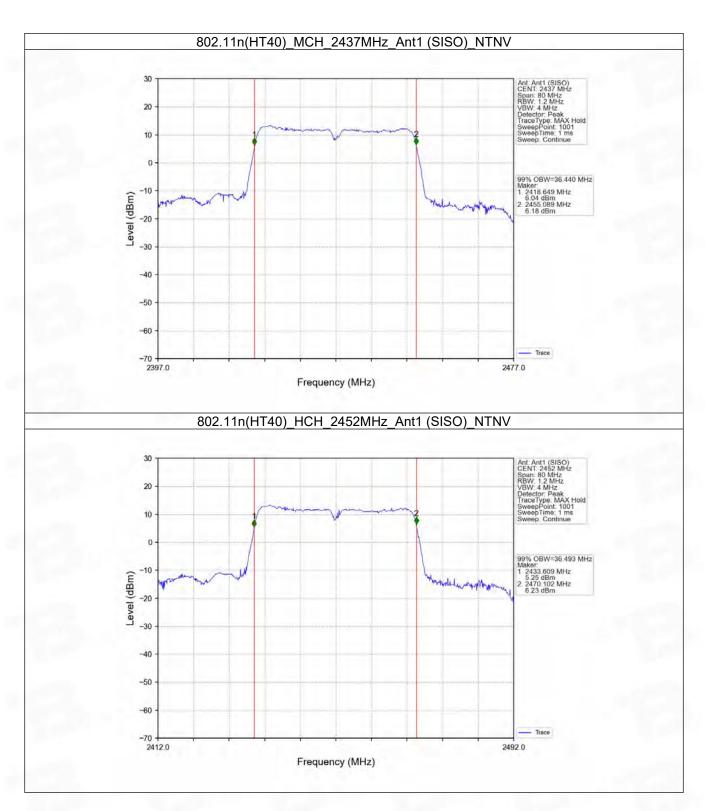


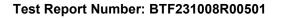














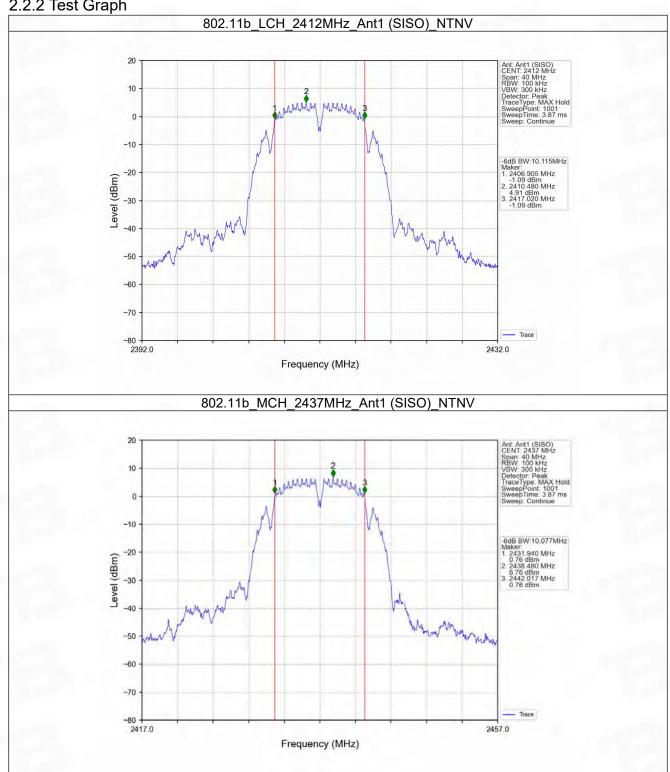
2.2 6dB BW

2.2.1 Test Result

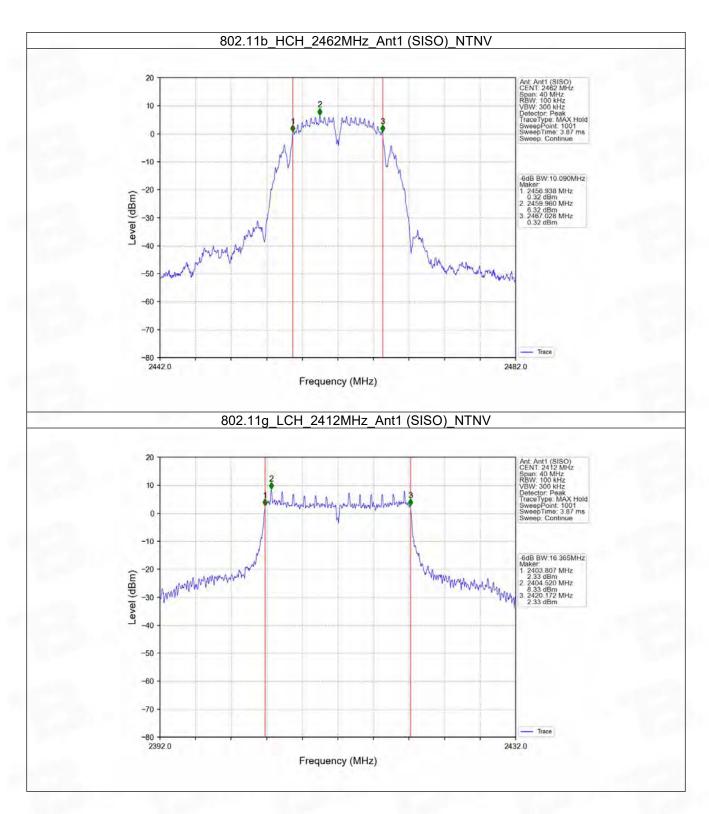
Mode	TX	Frequency	ANT	6dB Bandv	Verdict		
Mode	Туре	(MHz)	ANI	Result	Limit	verdict	
	SISO	2412	1	10.115	>=0.5	Pass	
802.11b		2437	1	10.077	>=0.5	Pass	
		2462	1	10.090	>=0.5	Pass	
	SISO	2412	1	16.365	>=0.5	Pass	
802.11g		2437	1	16.355	>=0.5	Pass	
		2462	1	16.356	>=0.5	Pass	
802.11n	SISO	2412	1	16.957	>=0.5	Pass	
		2437	1	16.938	>=0.5	Pass	
(HT20)		2462	1	16.982	>=0.5	Pass	
802.11n	SISO	2422	1	35.187	>=0.5	Pass	
		2437	1	35.185	>=0.5	Pass	
(HT40)		2452	1	35.185	>=0.5	Pass	



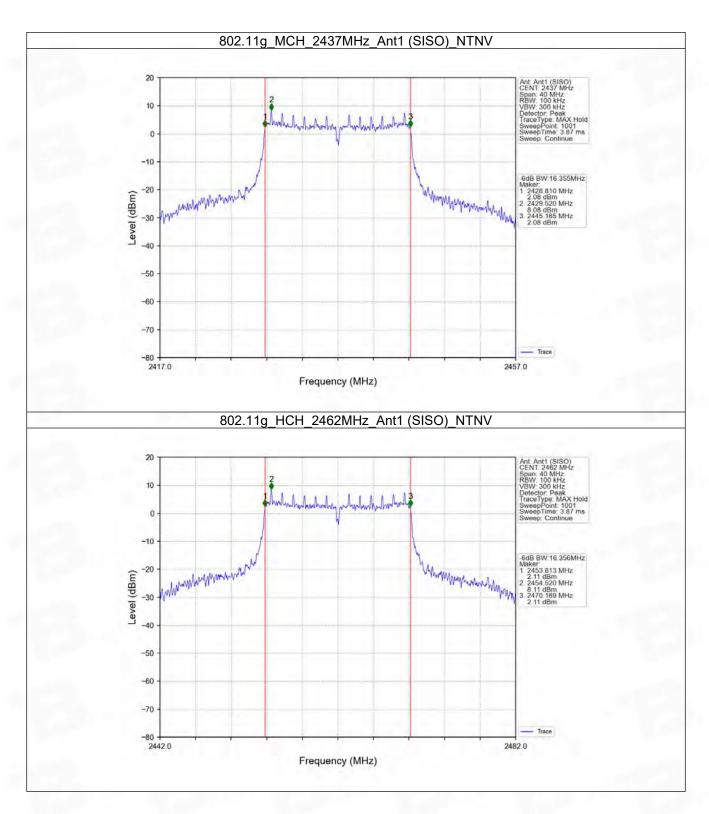
2.2.2 Test Graph



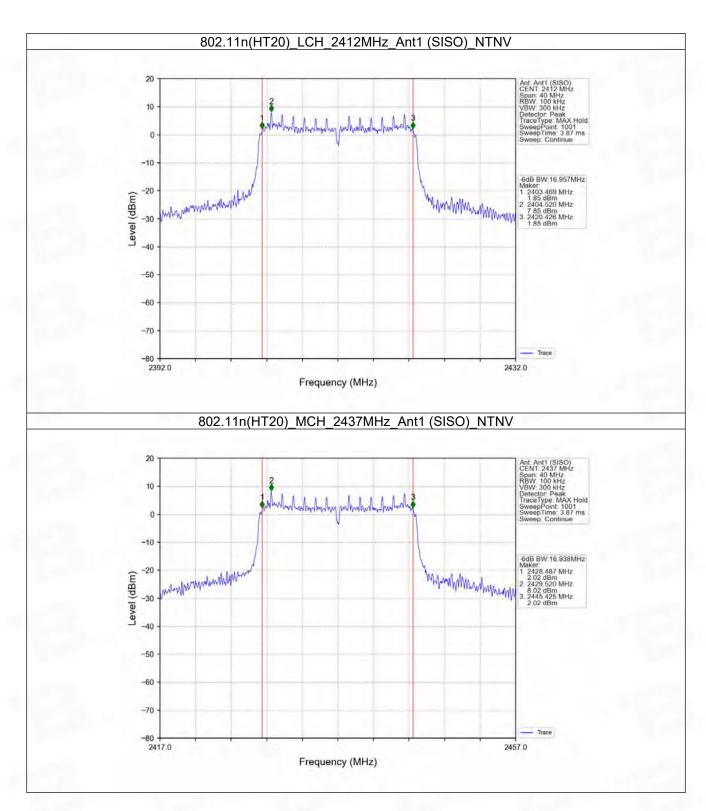




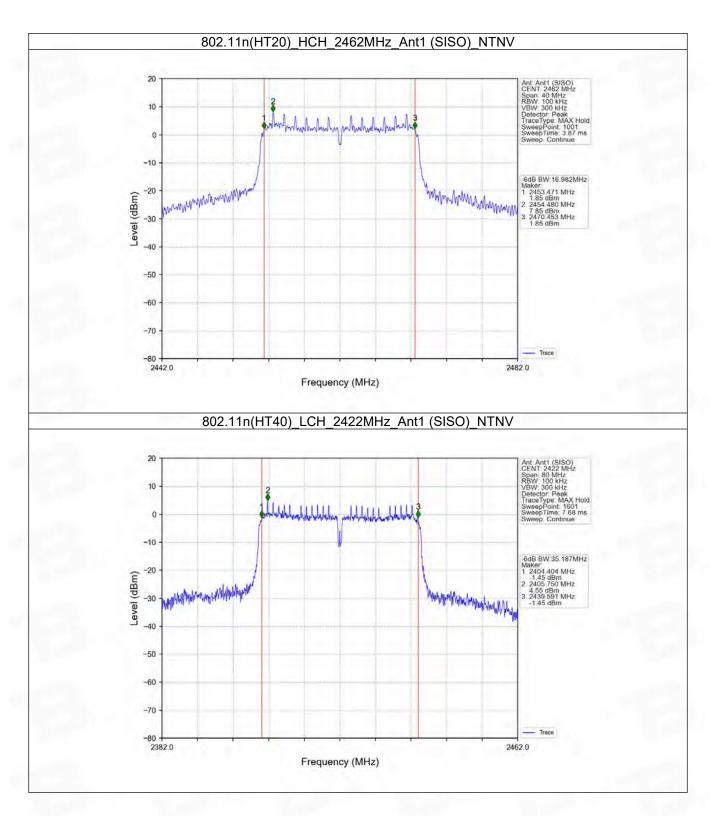




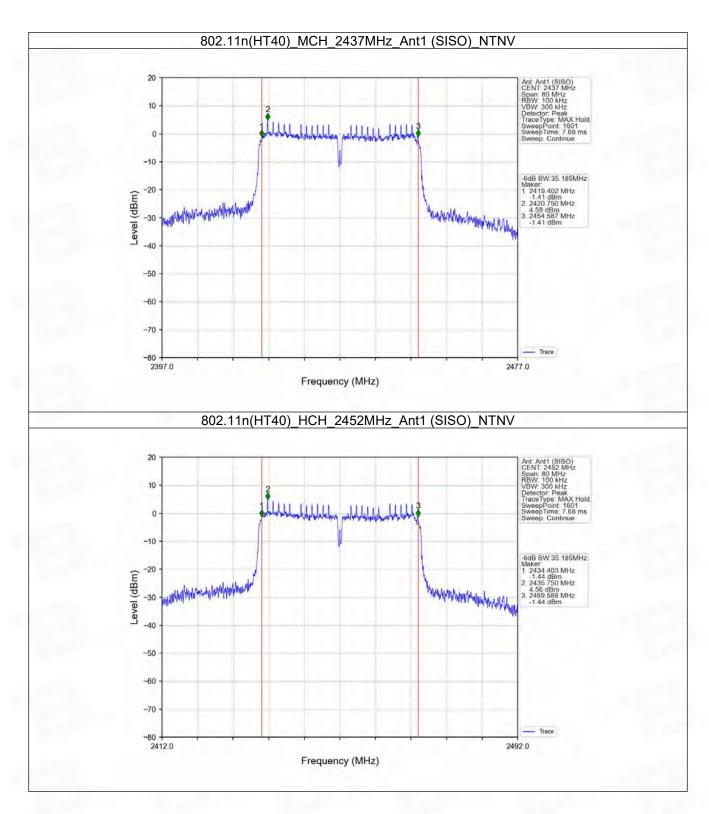


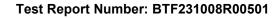














3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduct	\/amaliat	
	Type	(MHz)	ANT1	Limit	Verdict
802.11b	SISO	2412	14.08	<=30	Pass
		2437	15.25	<=30	Pass
		2462	15.72	<=30	Pass
	SISO	2412	18.85	<=30	Pass
802.11g		2437	20.10	<=30	Pass
		2462	20.78	<=30	Pass
802.11n (HT20)	SISO	2412	18.00	<=30	Pass
		2437	19.22	<=30	Pass
		2462	19.64	<=30	Pass
802.11n (HT40)	SISO	2422	18.26	<=30	Pass
		2437	19.46	<=30	Pass
		2452	19.87	<=30	Pass

4. Maximum Power Spectral Density

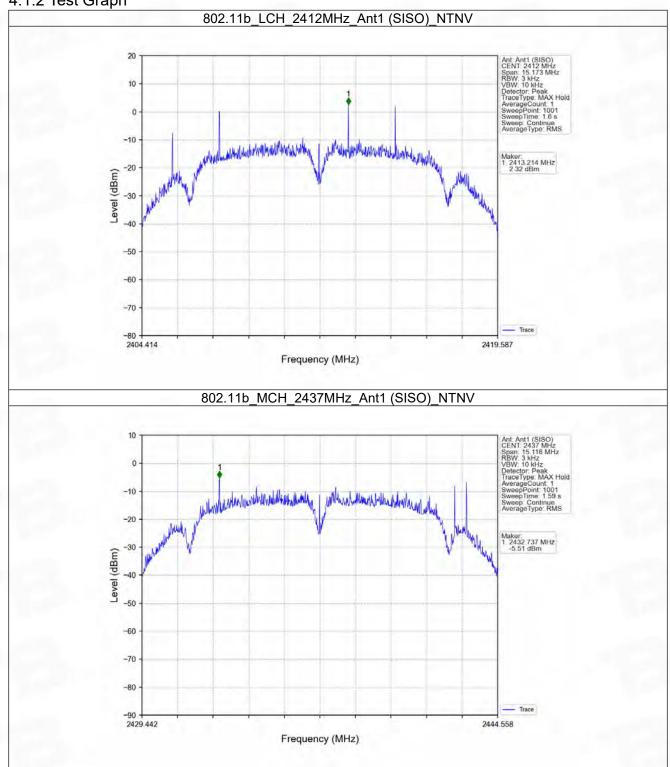
4.1 PSD

4.1.1 Test Result

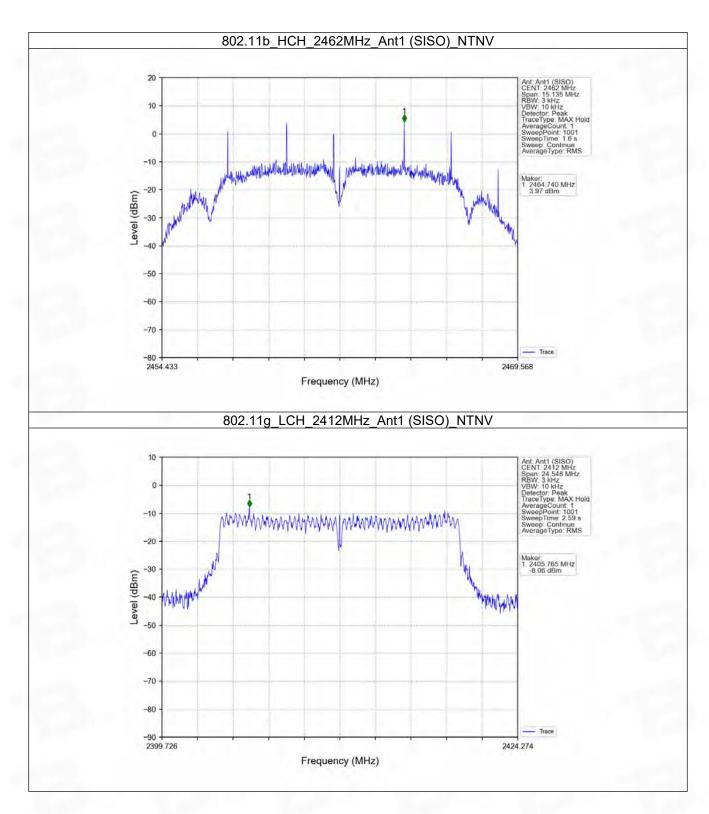
Mada	TX	Frequency	Maximum PSI	Vardiet	
Mode	Type	(MHz)	ANT1	Limit	Verdict
		2412	2.32	<=8	Pass
802.11b	SISO	2437	-5.51	<=8	Pass
		2462	3.97	<=8	Pass
	SISO	2412	-8.06	<=8	Pass
802.11g		2437	-8.36	<=8	Pass
		2462	-9.26	<=8	Pass
000 115	SISO	2412	-7.35	<=8	Pass
802.11n (HT20)		2437	-9.18	<=8	Pass
		2462	-8.72	<=8	Pass
802.11n (HT40)	SISO	2422	-10.38	<=8	Pass
		2437	-9.98	<=8	Pass
		2452	-10.71	<=8	Pass



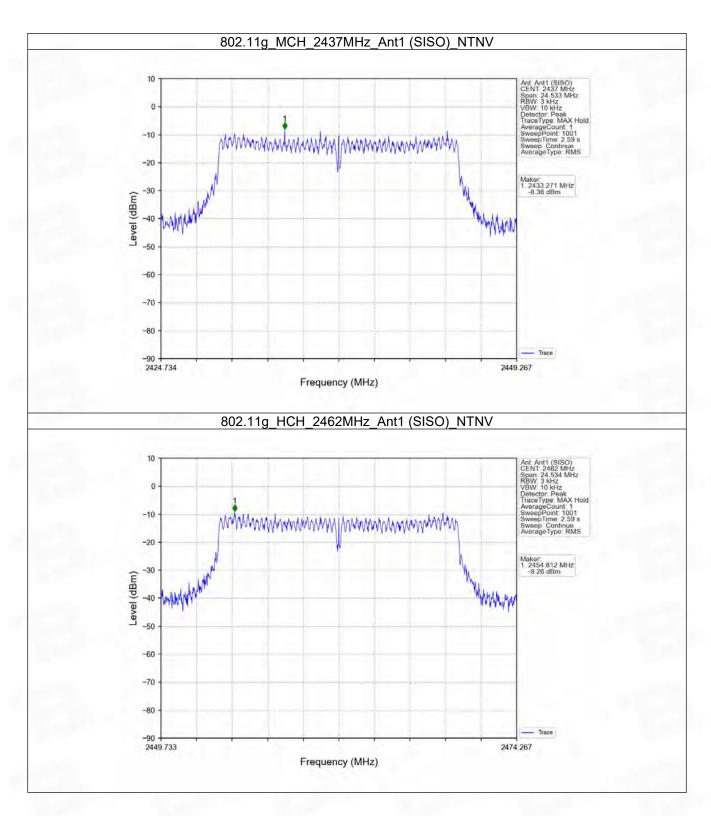
4.1.2 Test Graph



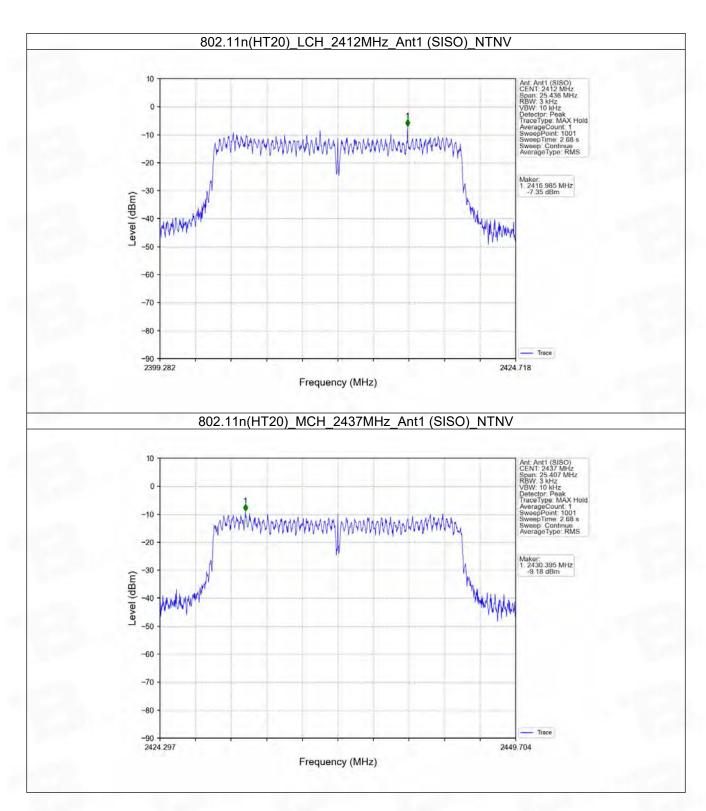




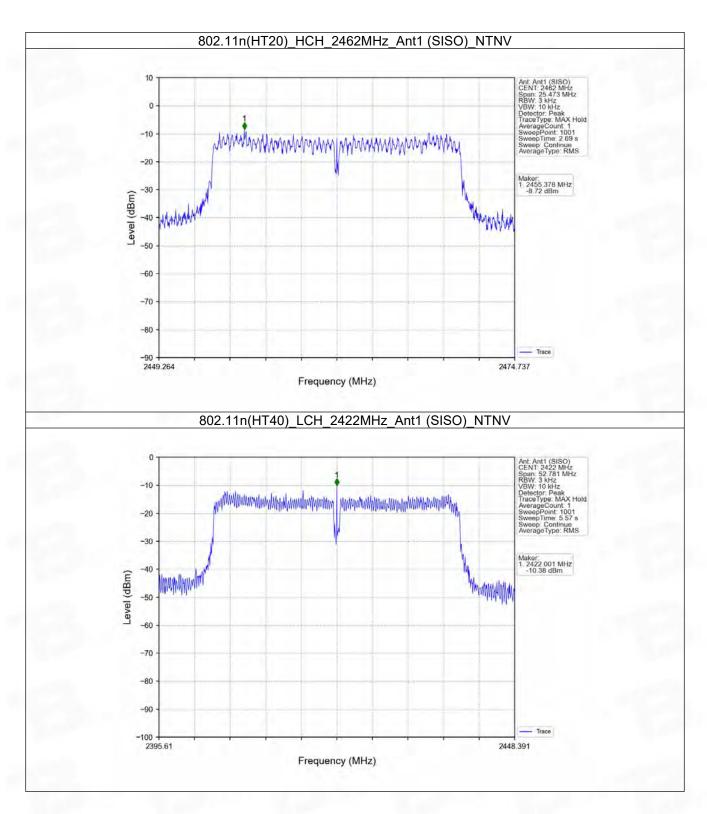




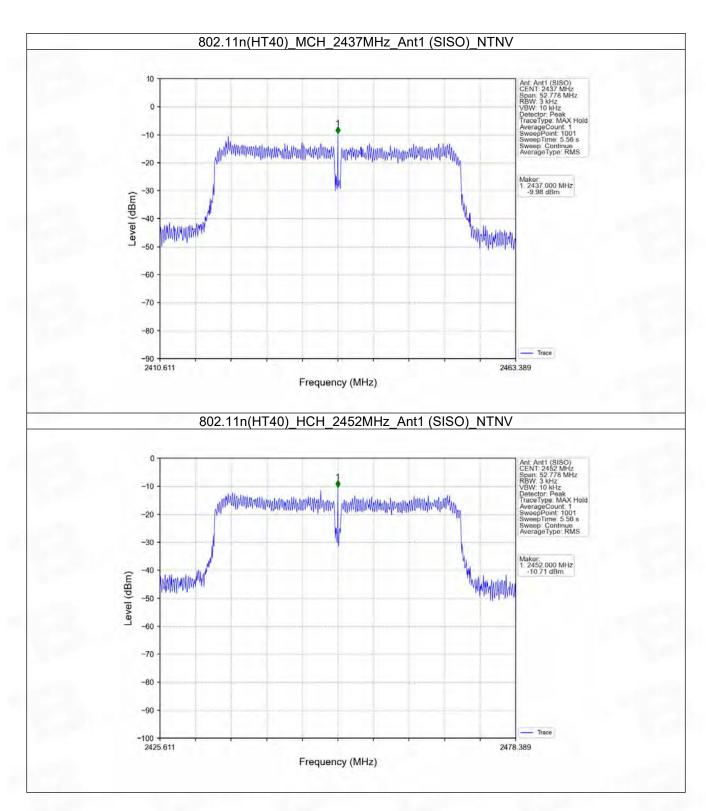


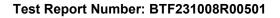














5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

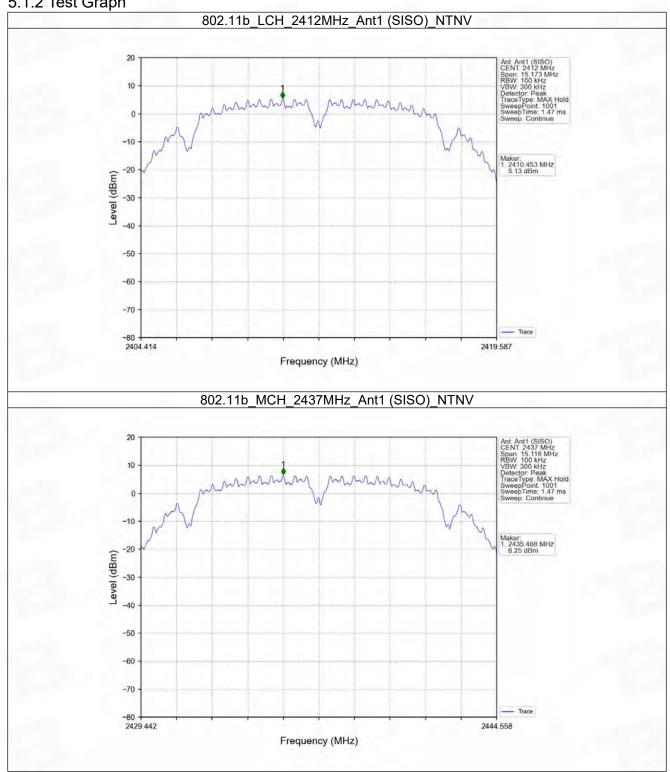
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	5.13
802.11b	SISO	2437	1	6.25
		2462	1	5.91
802.11g	SISO	2412	1	8.22
		2437	1	7.97
		2462	1	7.85
802.11n (HT20)	SISO	2412	1	7.84
		2437	1	7.67
		2462	1	7.73
802.11n (HT40)	SISO	2422	1	4.57
		2437	1	4.56
(11140)		2452	1	4.45

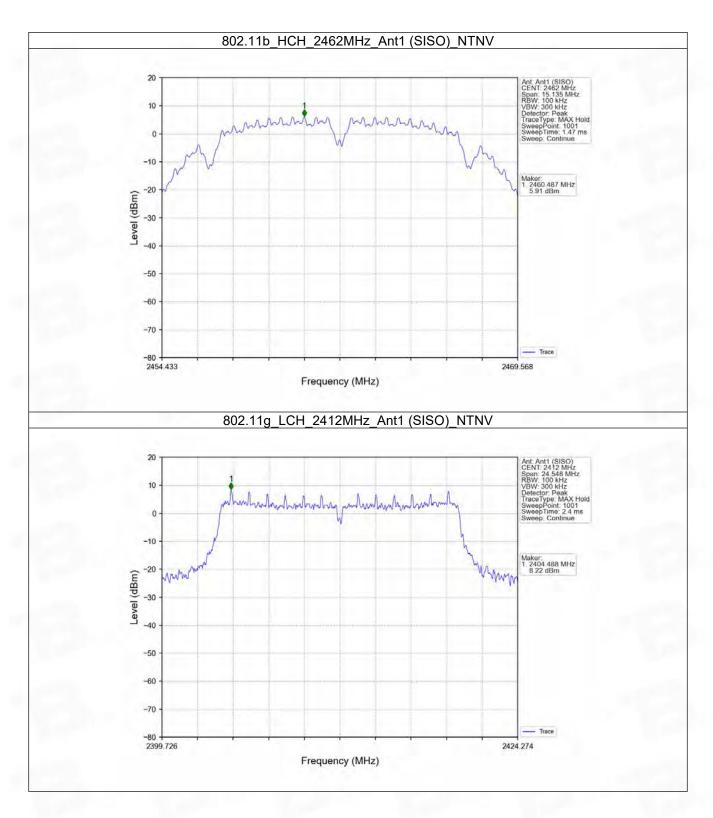
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



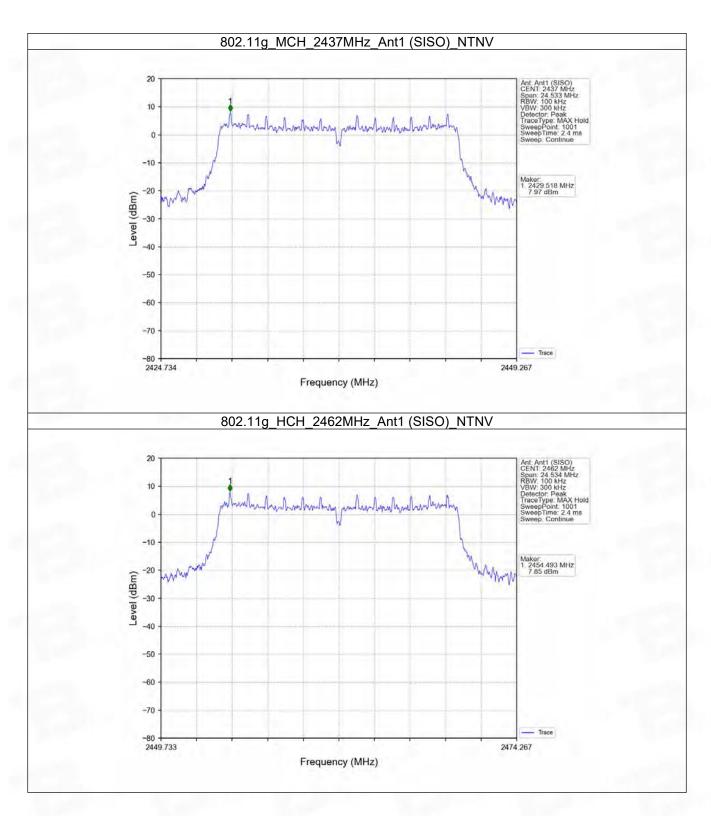
5.1.2 Test Graph



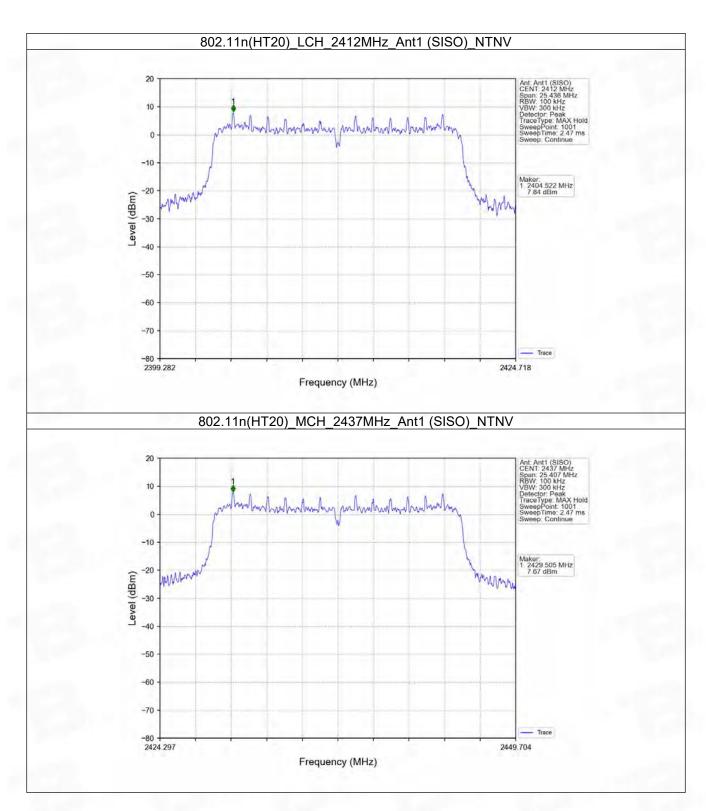




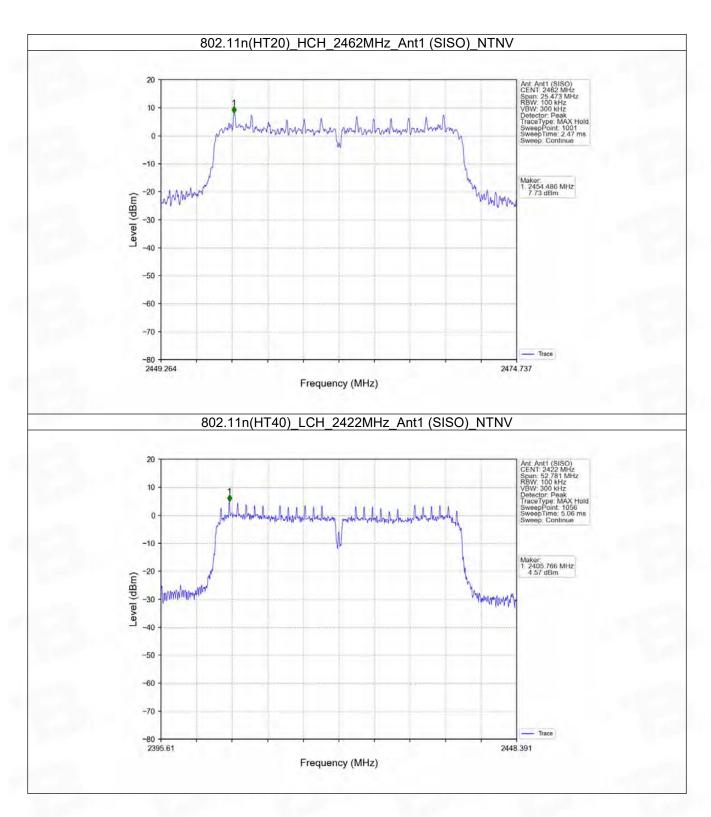




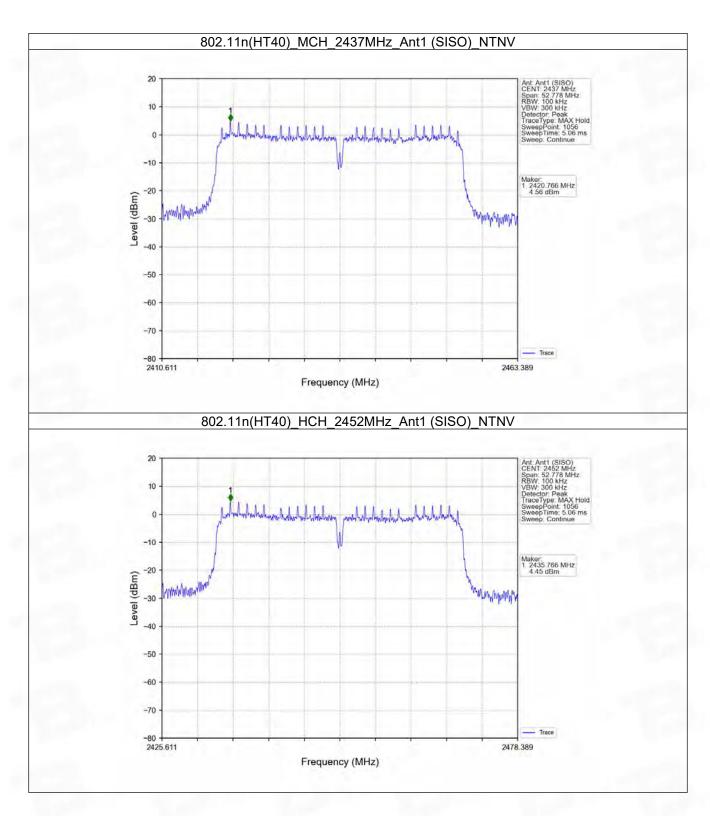


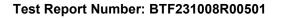














5.2 CSE

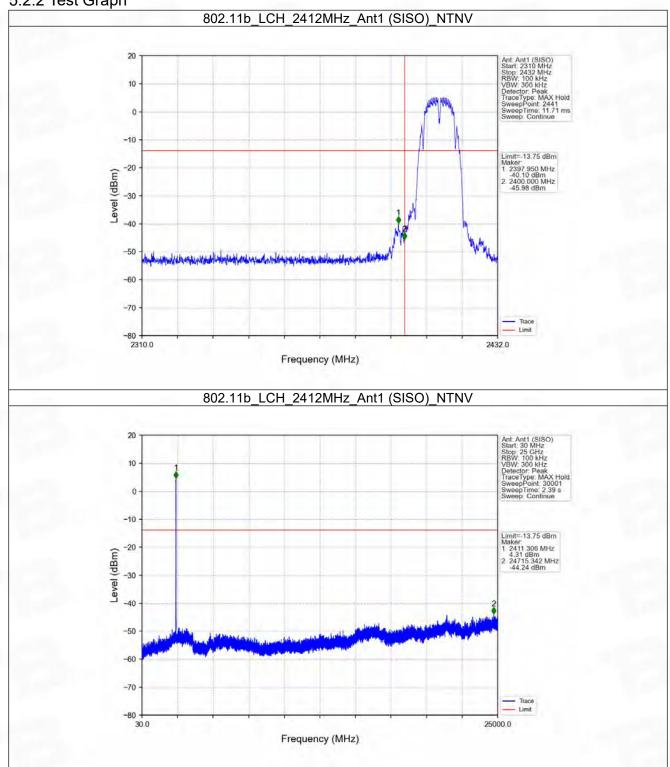
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b		2412	1	6.25	-13.75	Pass
	SISO	2437	1	6.25	-13.75	Pass
		2462	1	6.25	-13.75	Pass
802.11g		2412	1	8.22	-11.78	Pass
	SISO	2437	1	8.22	-11.78	Pass
		2462	1	8.22	-11.78	Pass
802.11n (HT20)		2412	1	7.84	-12.16	Pass
	SISO	2437	1	7.84	-12.16	Pass
		2462	1	7.84	-12.16	Pass
802.11n (HT40)	SISO	2422	1	4.57	-15.43	Pass
		2437	1	4.57	-15.43	Pass
		2452	1	4.57	-15.43	Pass

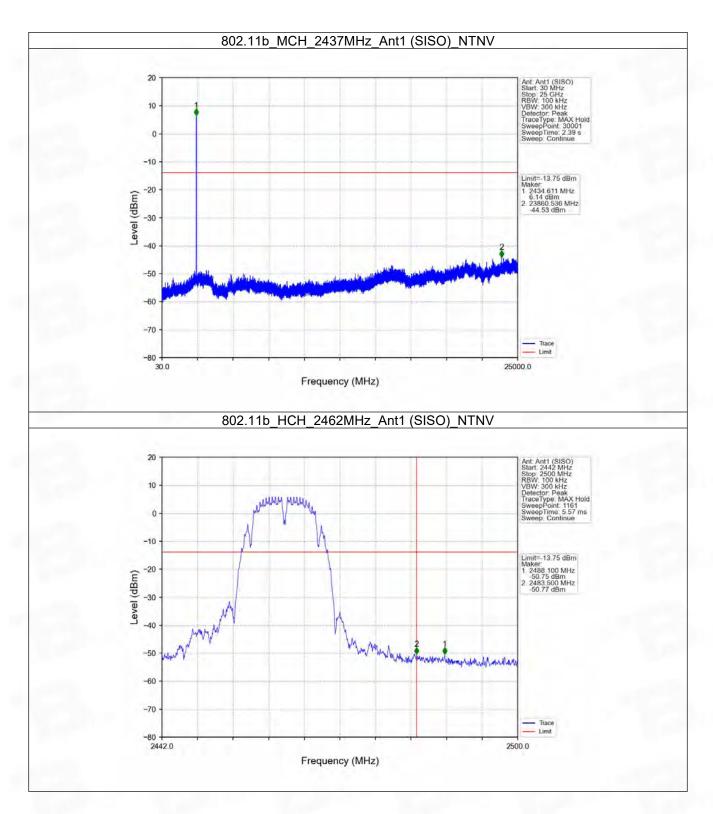
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



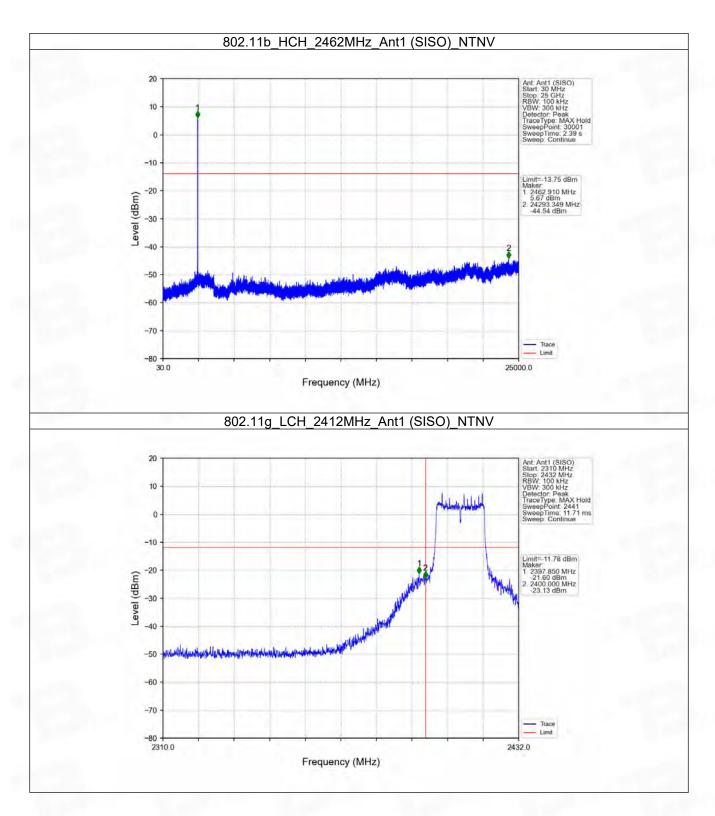
5.2.2 Test Graph



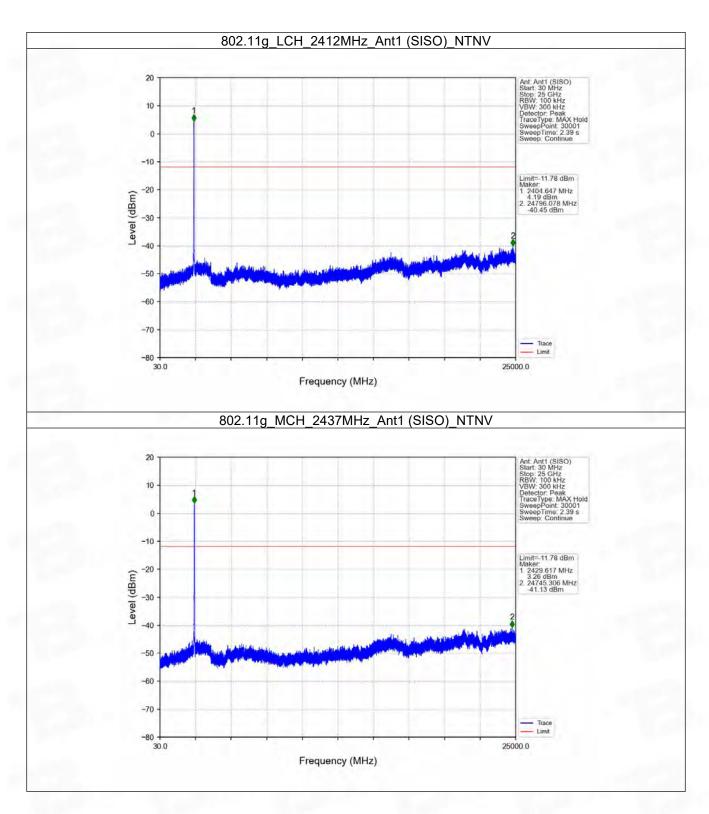




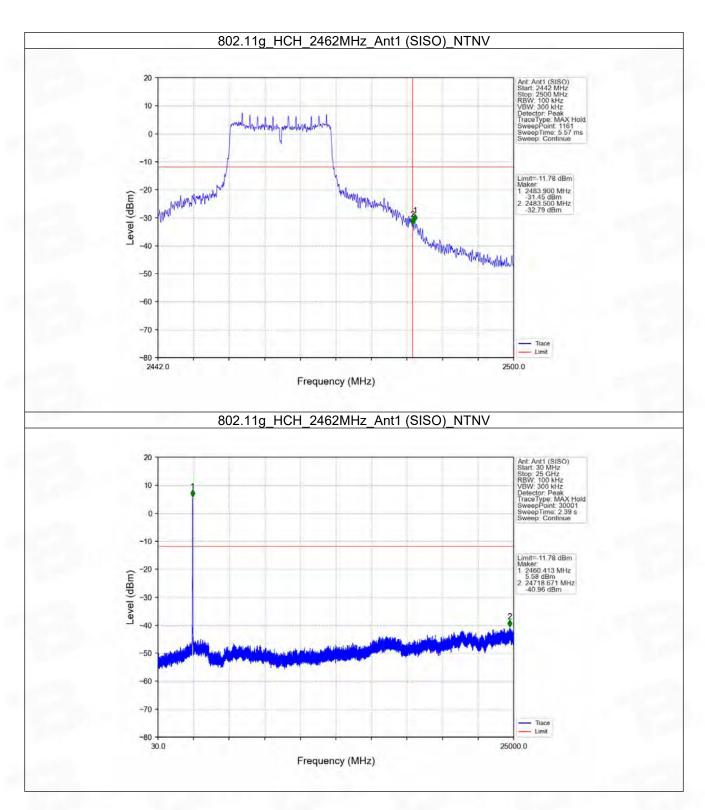




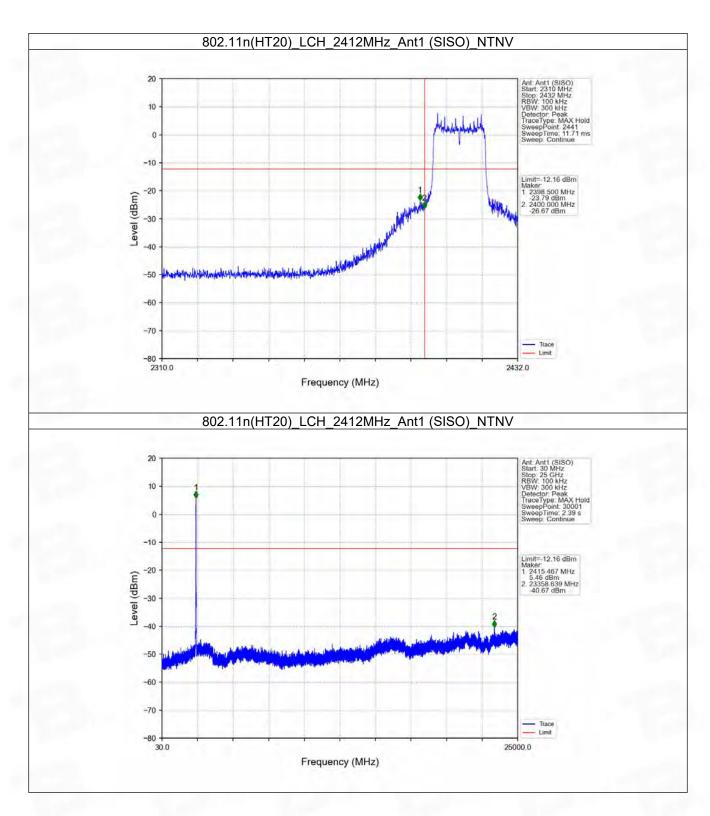




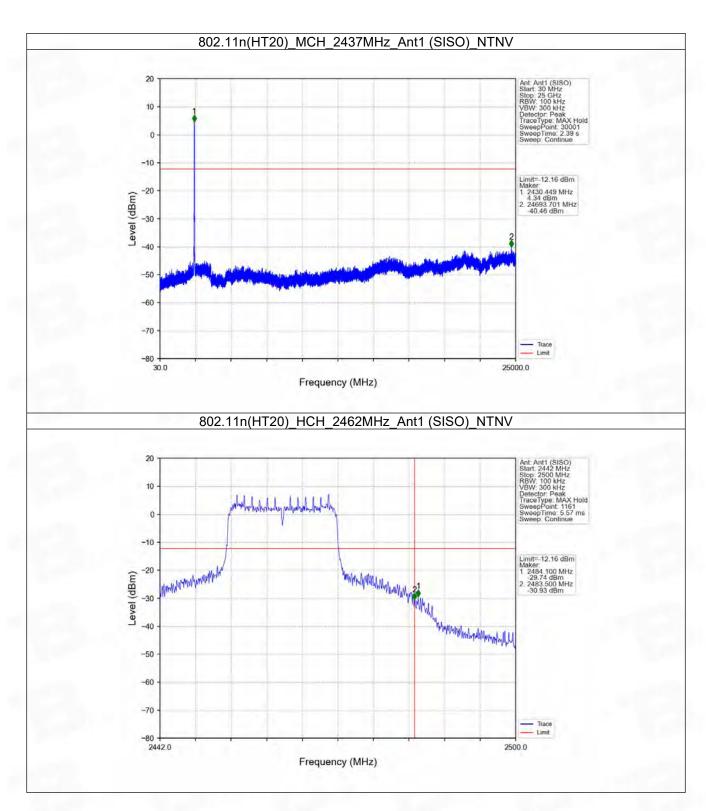




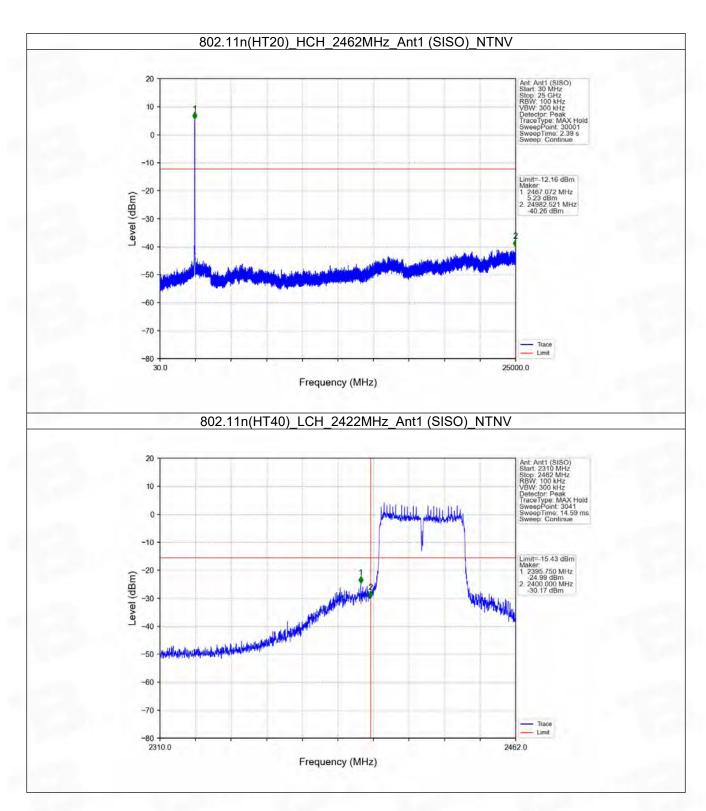




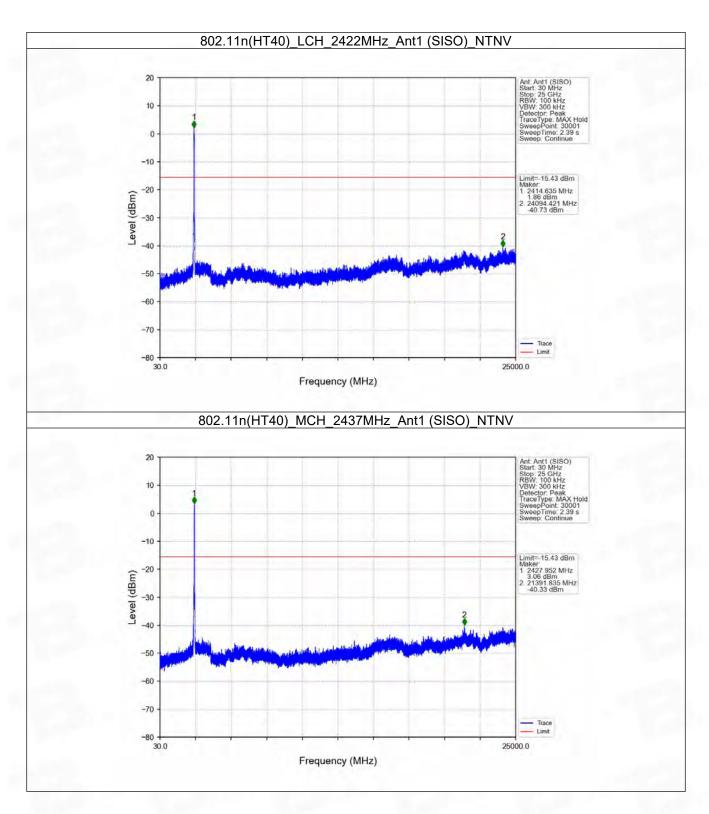




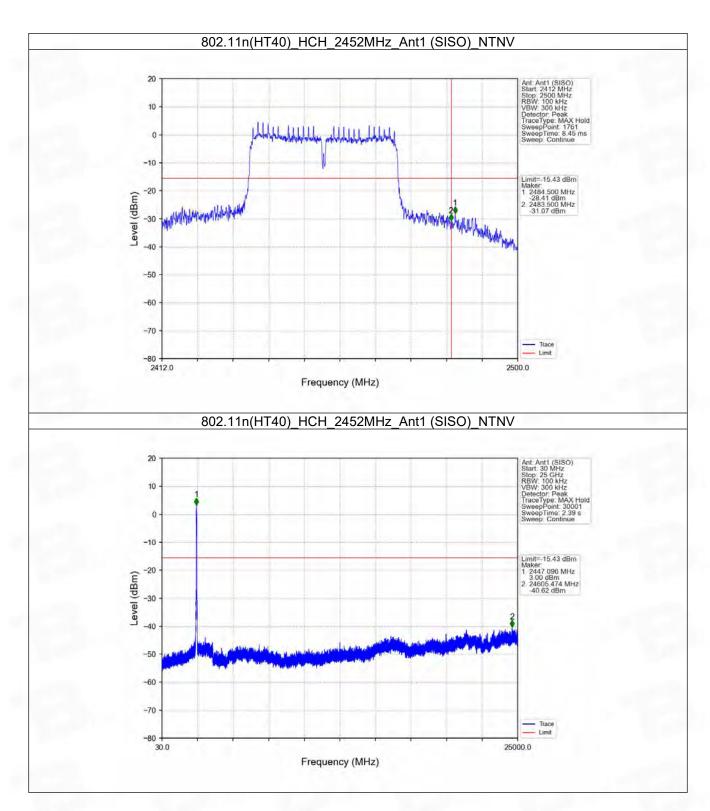


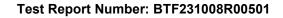












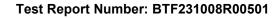


6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.1197	20.78
2422	2452	0.0971	19.87







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-- END OF REPORT --