

RF Test Report

For

Applicant Name: FOXX Development Inc.

Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

EUT Name: Smart Phone Brand Name: FOXXD Model Number: A65M

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,

China

Report Number: BTF240218R00103 Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass

FCC ID: 2AQRM-A65M

Test Date: 2024-02-19 to 2024-03-08

Date of Issue: 2024-03-11

Prepared By:

Address:

Chris Liu / Project Enginee

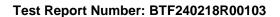
Date: 2024-03-11

Approved By:

Ryan.CJ / EMC Manager

Date: 2024-03-11

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.



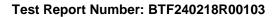


Revision History			
Version	Issue Date	Revisions Content	
R_V0	2024-03-11	Original	
Note: Once the	revision has been made, then pre	vious versions reports are invalid.	



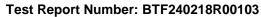
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1 Introduction

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.



Test Report Number: BTF240218R00103

2 Product Information

2.1 Application Information

Company Name: FOXX Development Inc.	
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

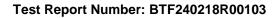
EUT Name:	Smart Phone
Test Model Number:	A65M

2.5 Technical Information

Power Supply:	DC 5V 1A from adapotr or 3.8V from battery		
Power Adaptor:	Input:AC 100-240V 50/60Hz 0.3A		
	Output:5.0V==1000mA		
Operation Fraguency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;		
Operation Frequency:	802.11n(HT40): 2422MHz to 2452MHz		
No contract of Observation	802.11b/g/n(HT20): 11 Channels;		
Number of Channels:	802.11n(HT40): 7 Channels		
	802.11b: DSSS(CCK, DQPSK, DBPSK);		
Modulation Type:	802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM);		
	802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Antenna Type:	PIFA ANT		
Antenna Gain [#] :	2.69dBi		
NI-4-			

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

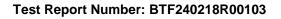
3.2 Uncertainty of Test

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



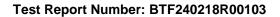


Test Configuration

Test Equipment List

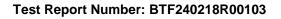
Conducted Emission at AC power line								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	1	1			
Coaxial Switcher	SCHWARZBECK	CX210	CX210	1	/			
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15			
LISN	AFJ	LS16/110VAC	16010020076	2023-11-26	2024-11-15			
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2023-11-15	2024-11-14			

Occupied Bandwidth Maximum Conducted Power Spectral Densi Emissions in non-res	ty	ands			
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
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	cy bands (below 1				
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	1
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	1	1
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	1	1
RE Cable	RE Cable REBES Talent		21101573	1	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	80000	1	1
Horn Antenna	Horn Antenna SCHWARZBECK		2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	1	/	/
POSITIONAL CONTROLLER	POSITIONAL SKET		1	1	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12



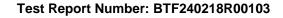


4.2 Test Auxiliary Equipment

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)

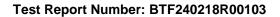
5.1 Antenna requirement

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:







6 Radio Spectrum Matter Test Results (RF)

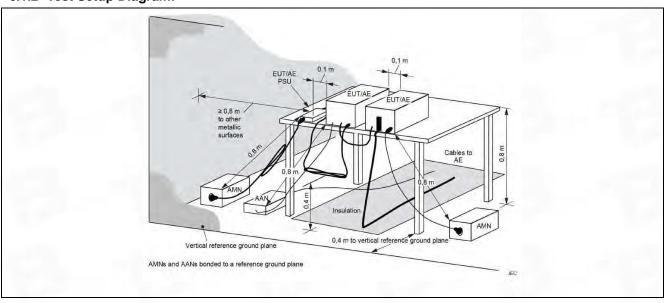
6.1 Conducted Emission at AC power line

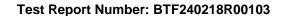
Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies,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

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.1 °C
Humidity:	49.2 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:

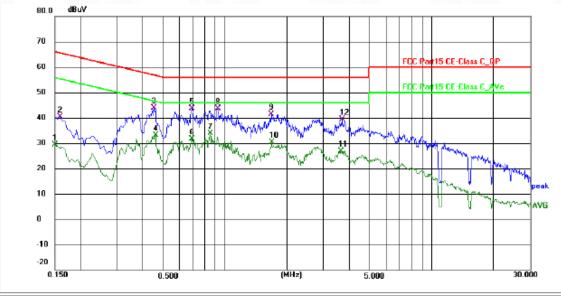




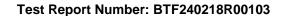


6.1.3 Test Data:

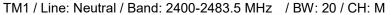
TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: M

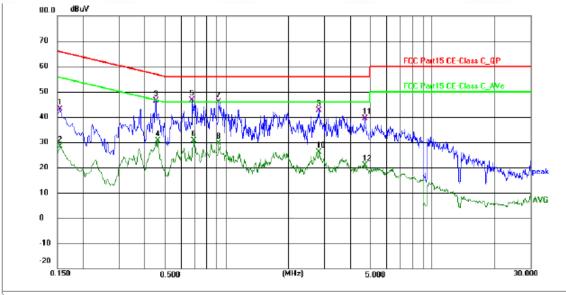


No.	Frequency (MHz)	Reading (dBuV)	Factor ()	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	19.02	10.45	29.47	56.00	-26.53	AVG	Р	
2	0.1590	29.88	10.47	40.35	65.52	-25.17	QP	Р	
3	0.4515	33.73	10.12	43.85	56.85	-13.00	QP	Р	
4	0.4605	22.95	10.11	33.06	46.68	-13.62	AVG	Р	
5	0.6900	33.67	9.98	43.65	56.00	-12.35	QP	Р	
6	0.6900	21.63	9.98	31.61	46.00	-14.39	AVG	Р	
7 *	0.8520	23.96	9.83	33.79	46.00	-12.21	AVG	Р	
8	0.9240	33.01	10.67	43.68	56.00	-12.32	QP	Р	
9	1.6800	30.78	10.67	41.45	56.00	-14.55	QP	Р	
10	1.6890	19.59	10.67	30.26	46.00	-15.74	AVG	Р	
11	3.6555	16.30	10.65	26.95	46.00	-19.05	AVG	Р	
12	3.6870	28.80	10.65	39.45	56.00	-16.55	QP	Р	

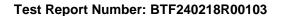








No.	Frequency (MHz)	Reading (dBuV)	Factor ()	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	32.65	10.46	43.11	65.75	-22.64	QP	Р	
2	0.1545	17.99	10.46	28.45	55.75	-27.30	AVG	Р	
3	0.4515	36.37	10.12	46.49	56.85	-10.36	QP	Р	
4	0.4605	20.42	10.11	30.53	46.68	-16.15	AVG	Р	
5 *	0.6809	36.59	9.99	46.58	56.00	-9.42	QP	Р	
6	0.6945	20.58	9.99	30.57	46.00	-15.43	AVG	Р	
7	0.9105	35.32	10.67	45.99	56.00	-10.01	QP	Р	
8	0.9105	19.03	10.67	29.70	46.00	-16.30	AVG	Р	
9	2.8230	31.94	10.68	42.62	56.00	-13.38	QP	Р	
10	2.8230	15.37	10.68	26.05	46.00	-19.95	AVG	Р	
11	4.7040	28.57	10.71	39.28	56.00	-16.72	QP	Р	
12	4.7040	10.27	10.71	20.98	46.00	-25.02	AVG	Р	





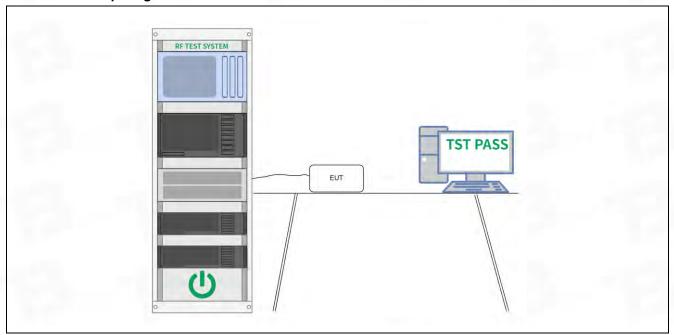
6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Method:	ANSI C63.10-2013, 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.

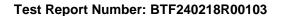
6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	48 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:





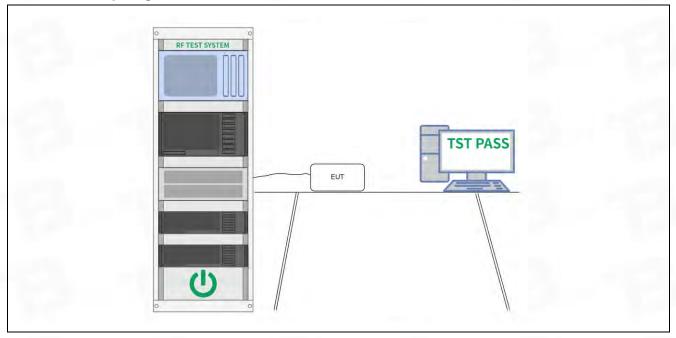
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Method:	ANSI C63.10-2013, section 11.9.1 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

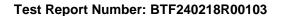
6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	48 %
Atmospheric Pressure:	1010 mbar

6.3.2 Test Setup Diagram:



6.3.3 Test Data:





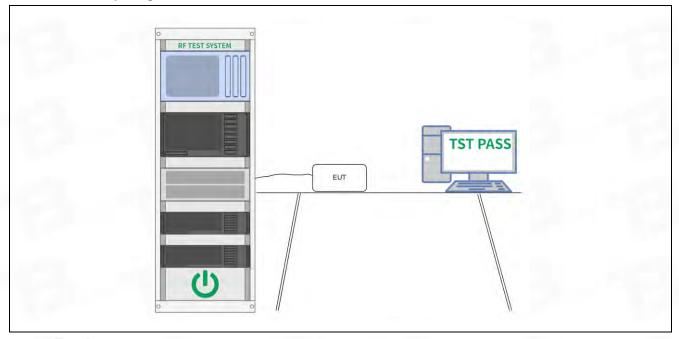
6.4 Power Spectral Density

•	
Test Requirement:	47 CFR 15.247(e)
Test Method:	ANSI C63.10-2013, section 11.10
rest Metriou.	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

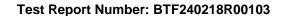
6.4.1 E.U.T. Operation:

Operating Environment:				
Temperature:	24.7 °C			
Humidity:	48 %			
Atmospheric Pressure:	1010 mbar			

6.4.2 Test Setup Diagram:



6.4.3 Test Data:





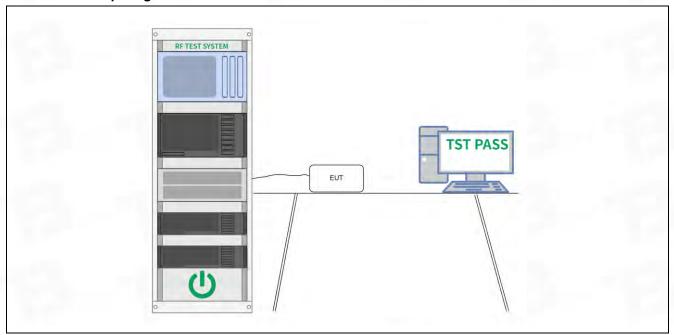
6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Method:	ANSI C63.10-2013 section 11.11
rest Metriod.	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

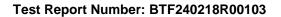
6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	48 %
Atmospheric Pressure:	1010 mbar

6.5.2 Test Setup Diagram:



6.5.3 Test Data:





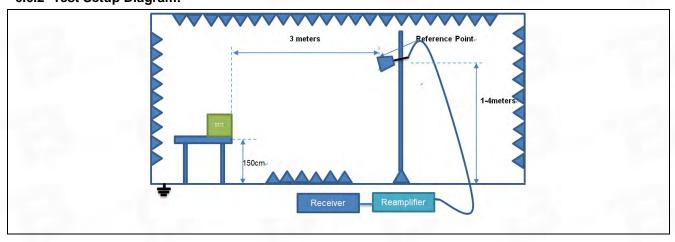
6.6 Band edge emissions (Radiated)

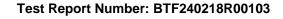
		Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the						
Test Requirement:		l in § 15.205(a), must also comply	/ with the radiated					
		§ 15.209(a)(see § 15.205(c)).`						
Test Method:	ANSI C63.10-2013 section	6.10						
Test Method.	KDB 558074 D01 15.247 M	eas Guidance v05r02						
	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					
	88-216	150 **	3					
	216-960	200 **	3					
Test Limit:	Above 960	500	3					
root Emme.	** Except as provided in par	ragraph (g), fundamental emission	ns 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							
		ermitted under other sections of the	nis 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							
		s employing an average detector						
Procedure:	ANSI C63.10-2013 section	6.10.5.2						

6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.3 °C
Humidity:	49 %
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 (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	64.62	-30.59	34.03	74.00	-39.97	peak	Р
2 *	2390.000	65.64	-30.49	35.15	74.00	-38.85	peak	Р
3	2400.000	65.33	-30.48	34.85	74.00	-39.15	peak	Р

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

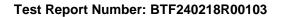
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	63.88	-30.59	33.29	74.00	-40.71	peak	Р
2	2390.000	64.91	-30.49	34.42	74.00	-39.58	peak	Р
3 *	2400.000	65.04	-30.48	34.56	74.00	-39.44	peak	Р

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 *	2483.500	66.78	-30.39	36.39	74.00	-37.61	peak	Р
2	2500.000	64.85	-30.37	34.48	74.00	-39.52	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	66.51	-30.39	36.12	74.00	-37.88	peak	Р
2	2500.000	65.03	-30.37	34.66	74.00	-39.34	peak	Р





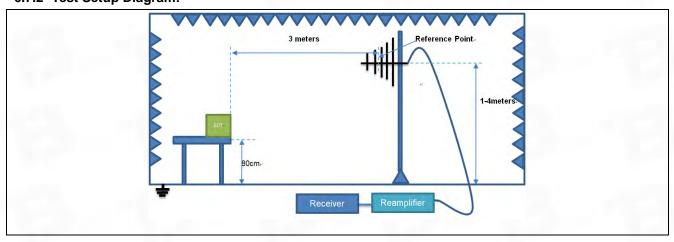
6.7 Emissions in frequency bands (below 1GHz)

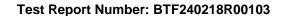
	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the						
Test Requirement:		ned in § 15.205(a), must also co					
•		emission limits specified in § 15.209(a)(see § 15.205(c)).					
T. A.M. H. A.	ANSI C63.10-2013 secti	on 6.6.4					
Test Method:	KDB 558074 D01 15.247 Meas Guidance 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				
	88-216	150 **	3				
	216-960	200 **	3				
Test Limit:	Above 960	500	3				
r oot Ziiriid	** Except as provided in	paragraph (g), fundamental em	issions 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 6.6.4					

6.7.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.3 °C	
Humidity:	49 %	
Atmospheric Pressure:	1010 mbar	

6.7.2 Test Setup Diagram:





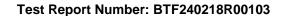


6.7.3 Test Data:

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

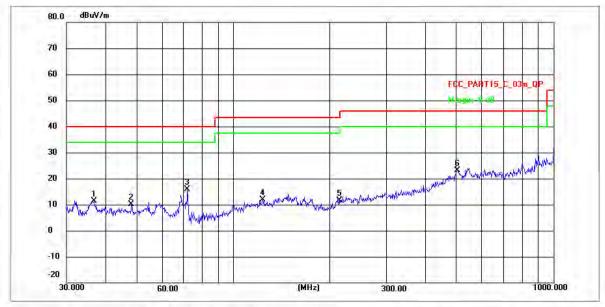


	(MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	51.5710	27.26	-18.26	9.00	40.00	-31.00	peak	Р
2	71.7061	26.17	-18.08	8.09	40.00	-31.91	peak	Р
3	135.9821	41.82	-27.91	13.91	43.50	-29.59	peak	P
4	261.5163	39.39	-25.75	13.64	46.00	-32.36	peak	P
5	433.3047	42.24	-23.07	19.17	46.00	-26.83	peak	Р
6 *	545.1825	46.00	-21.61	24.39	46.00	-21.61	peak	Р

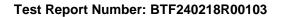








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	36.7661	31.97	-20.60	11.37	40.00	-28.63	peak	Р
2	47.9100	30.49	-20.37	10.12	40.00	-29.88	peak	Р
3	71.8320	35.85	-19.96	15.89	40.00	-24.11	peak	P
4	123.4817	39.83	-28.02	11.81	43.50	-31.69	peak	P
5	214.5142	38.28	-26,70	11,58	43.50	-31.92	peak	Р
6 *	502.9395	44.29	-21,17	23.12	46.00	-22.88	peak	Р





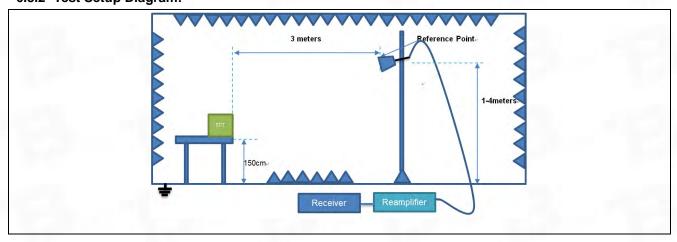
6.8 Emissions in frequency bands (above 1GHz)

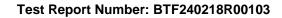
	In addition, radiated emi	ssions which fall in the restricted	d bands as defined in 8			
Test Requirement:		nply with the radiated emission				
root roquiromoni.	15.209(a)(see § 15.205(minto opcomed in 3			
	ANSI C63.10-2013 secti					
Test Method:		7 Meas Guidance v05r02				
	Frequency (MHz)	Field strength	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			
	88-216	150 **	3			
	216-960	200 **	3			
Test Limit:	Above 960	500	3			
103t Littit.	** Except as provided in	paragraph (g), fundamental em	issions from intentional			
		r 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.					
		ove, the tighter limit applies at th				
		vn in the above table are based				
		si-peak detector except for the f				
	110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands					
_		ents employing an average dete	ector.			
Procedure:	ANSI C63.10-2013 secti	on 6.6.4				

6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.3 °C		
Humidity:	49 %		
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

Γ	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
	NO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	P/F
	1	4824.000	73.76	-27.92	45.84	74.00	-28.16	peak	Р
	2	7236.000	72.36	-24.87	47.49	74.00	-26.51	peak	Р
	3	9648.000	71.91	-23.43	48.48	74.00	-25.52	peak	Р

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

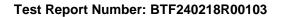
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
ı	1	4824.000	74.08	-27.92	46.16	74.00	-27.84	peak	Р
ĺ	2	7236.000	74.64	-24.87	49.77	74.00	-24.23	peak	Р
	3	9648.000	72.91	-23.43	49.48	74.00	-24.52	peak	Р

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)	Detector	F/F
1	4874.000	74.32	-27.73	46.59	74.00	-27.41	peak	Р
2	7311.000	72.92	-24.84	48.08	74.00	-25.92	peak	Р
3	9748.000	72.47	-23.74	48.73	74.00	-25.27	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	- I	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4874.000	74.64	-27.73	46.91	74.00	-27.09	peak	Р
2	7311.000	75.20	-24.84	50.36	74.00	-23.64	peak	Р
3	9748.000	73.47	-23.74	49.73	74.00	-24.27	peak	Р



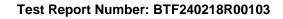


TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4960.000	74.78	-27.37	47.41	74.00	-26.59	peak	Р
2	7440.000	73.38	-24.68	48.70	74.00	-25.30	peak	Р
3	9920.000	72.93	-23.99	48.94	74.00	-25.06	peak	Р

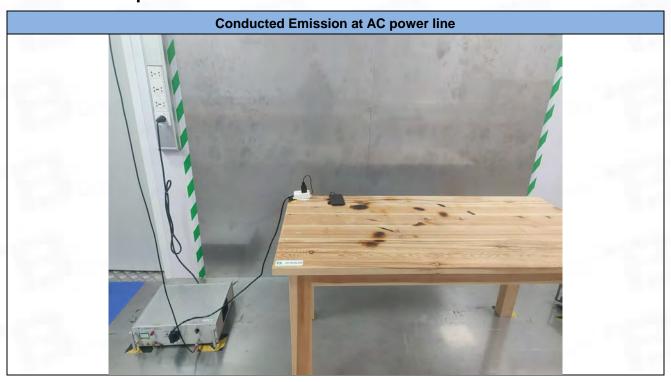
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

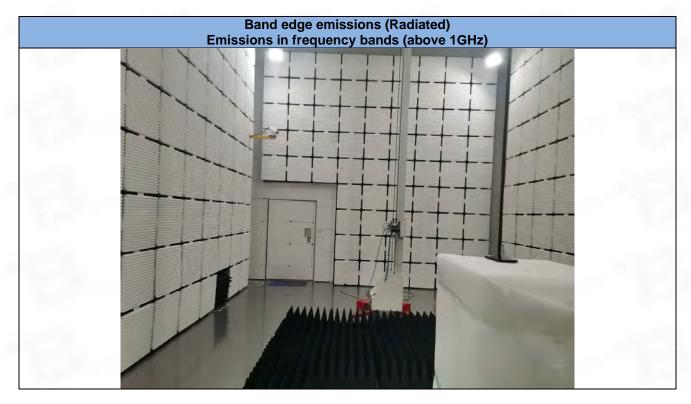
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
NO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	
1	4960.000	75.04	-27.37	47.67	74.00	-26.33	peak	Р
2	7440.000	75.60	-24.68	50.92	74.00	-23.08	peak	Р
3	9920.000	73.87	-23.99	49.88	74.00	-24.12	peak	Р

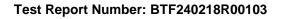




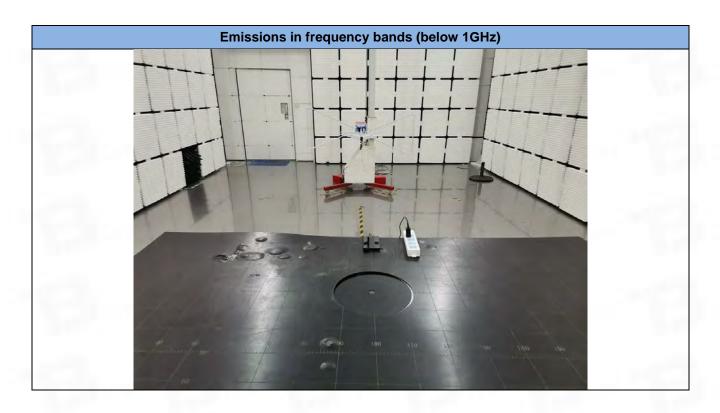
7 Test Setup Photos

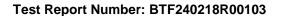








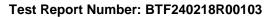






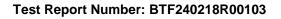
8 **EUT Constructional Details (EUT Photos)**

Please refer to the test report No. BTF240218R00101





Appendix



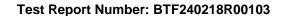


1. Duty Cycle

1.1 Ant1

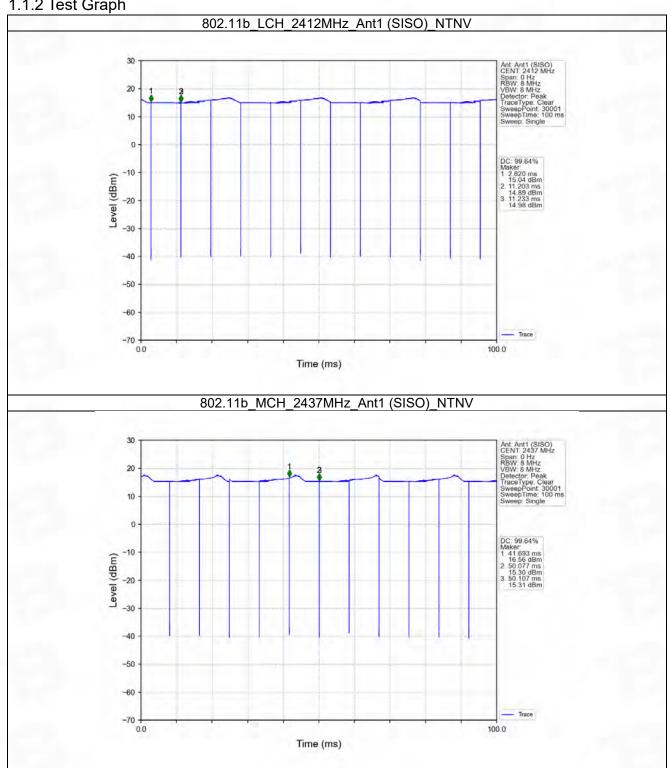
1.1.1 Test Result

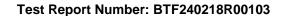
					Ant1		
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Wode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
		2412	8.383	8.413	99.64	0.02	0.00
802.11b	SISO	2437	8.384	8.414	99.64	0.02	0.04
		2462	8.387	8.414	99.68	0.01	0.00
		2412	1.392	1.428	97.48	0.11	0.03
802.11g	SISO	2437	1.392	1.428	97.48	0.11	0.03
		2462	1.392	1.428	97.48	0.11	0.03
802.11n		2412	1.300	1.336	97.31	0.12	0.03
(HT20)	SISO	2437	1.301	1.337	97.31	0.12	0.03
(11120)		2462	1.301	1.336	97.38	0.12	0.03
802.11n		2422	0.648	0.683	94.88	0.23	0.07
(HT40)	SISO	2437	0.648	0.683	94.88	0.23	0.07
(11140)		2452	0.648	0.683	94.88	0.23	0.03



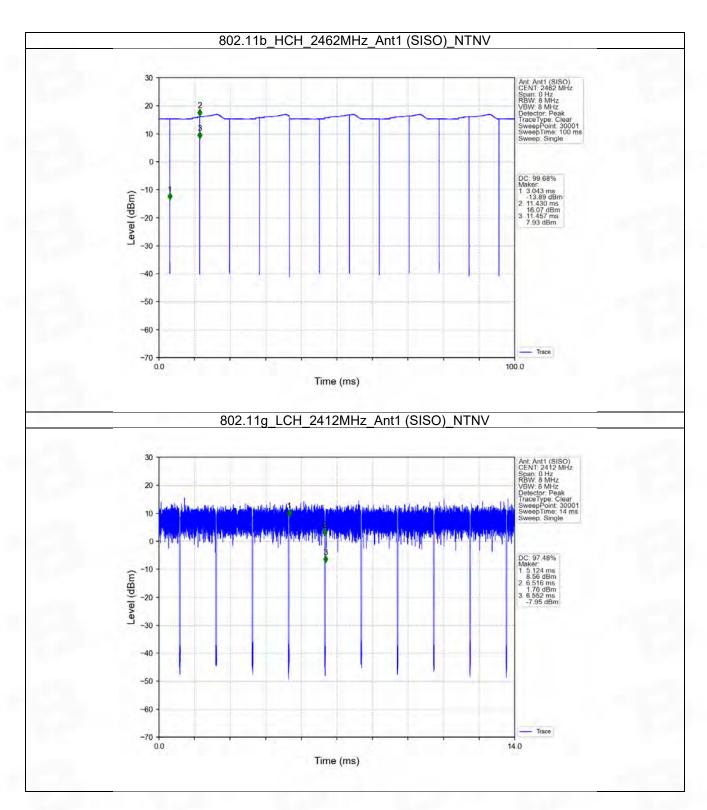


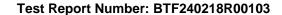
1.1.2 Test Graph



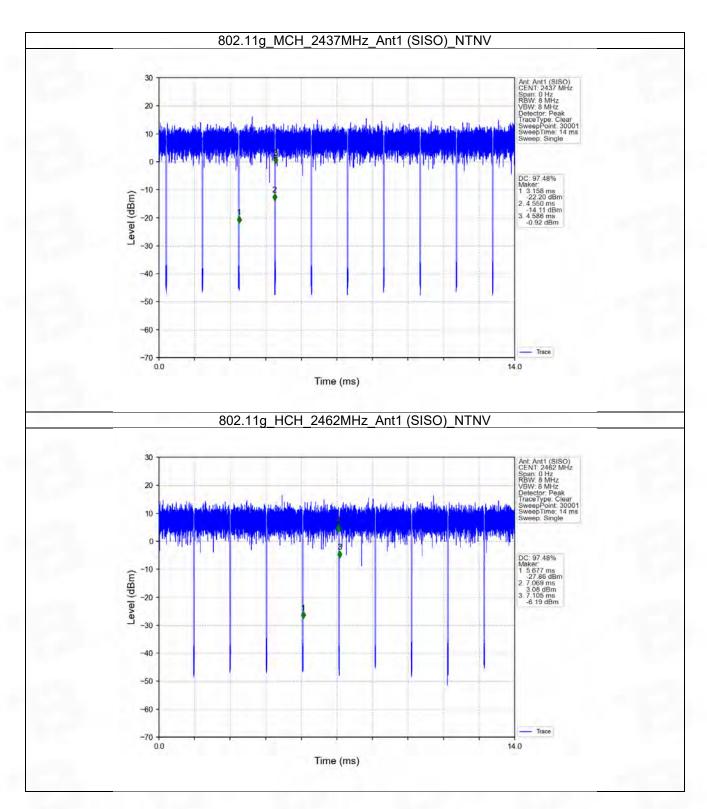


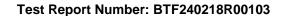




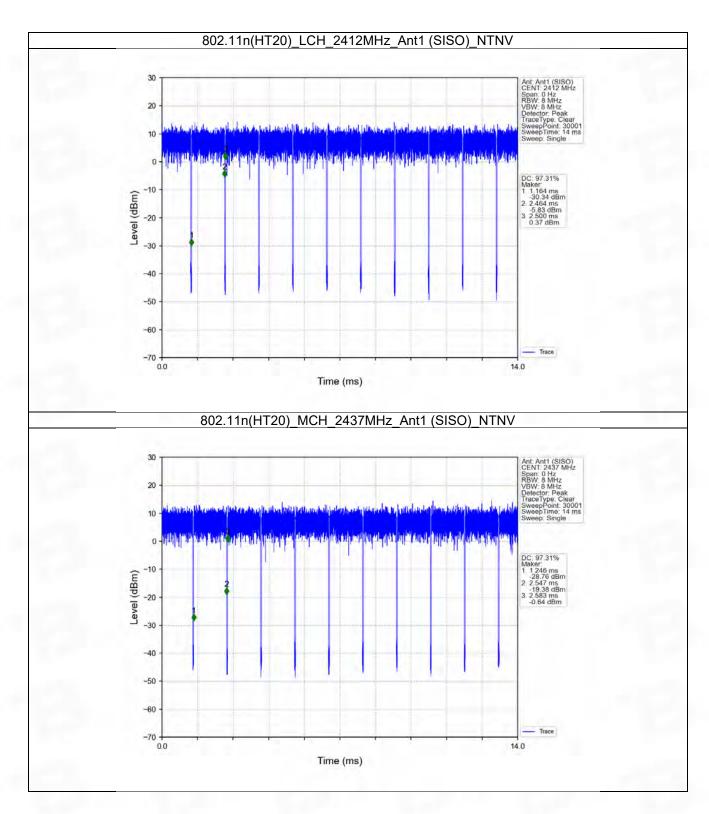


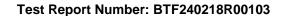




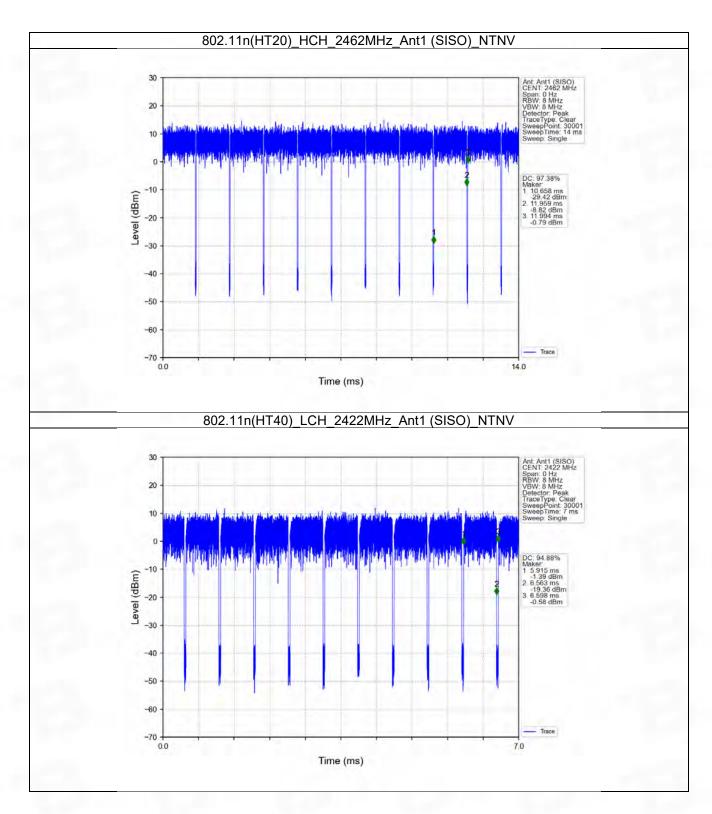


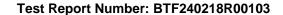




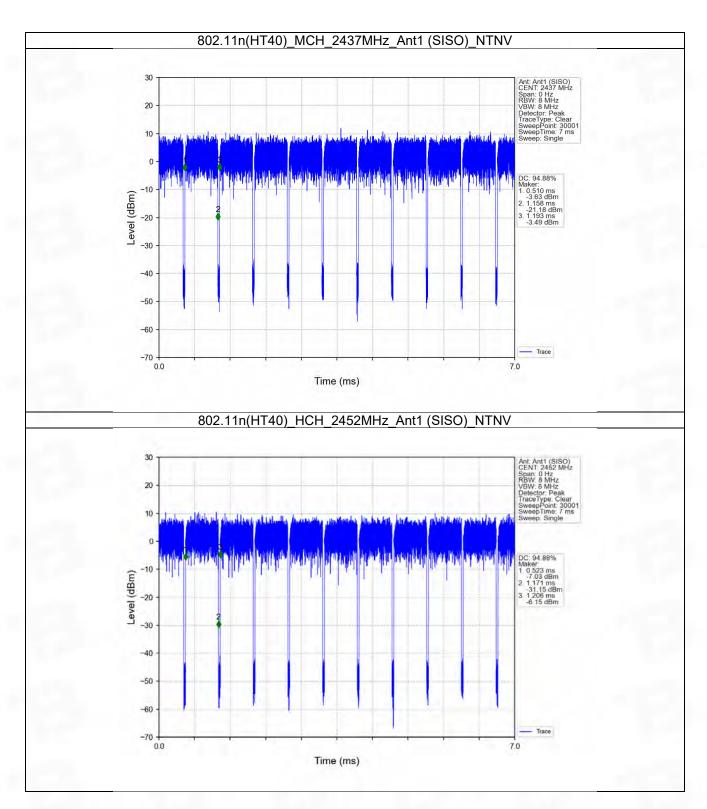


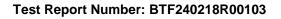












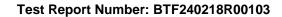


2. Bandwidth

2.1 OBW

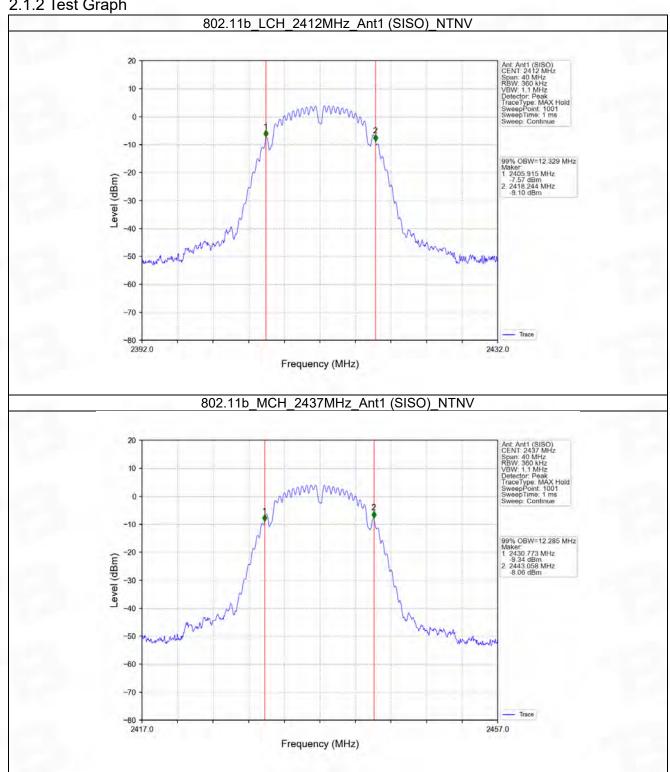
2.1.1 Test Result

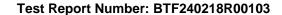
Mode	TX	Frequency		99% Occupied Bandwidth (MHz)		\	
	Type	(MHz)	ANT	Result	Limit	Verdict	
		2412	1	12.329	1	Pass	
802.11b	SISO	2437	1	12.285	1	Pass	
		2462	1	12.172	1	Pass	
	SISO	2412	1	17.784	1	Pass	
802.11g		2437	1	17.718	1	Pass	
		2462	1	17.591	1	Pass	
802.11n (HT20)	SISO	2412	1	18.382	1	Pass	
		2437	1	18.340	1	Pass	
	(П120)		2462	1	18.215	1	Pass
802.11n (HT40)	000 44.5		2422	1	36.524	1	Pass
	SISO	2437	1	36.864	1	Pass	
	(H140)		2452	1	36.878	1	Pass



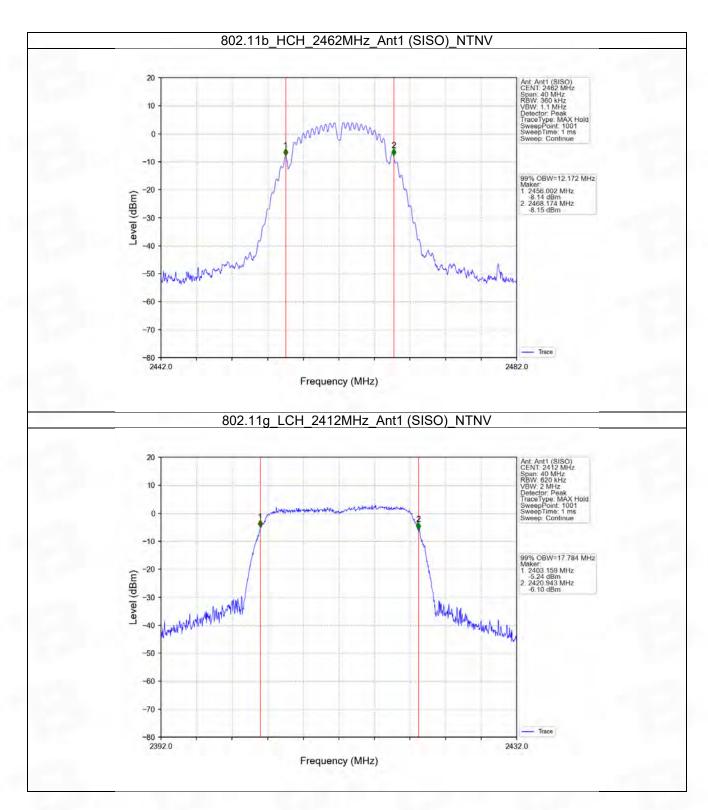


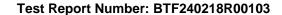
2.1.2 Test Graph



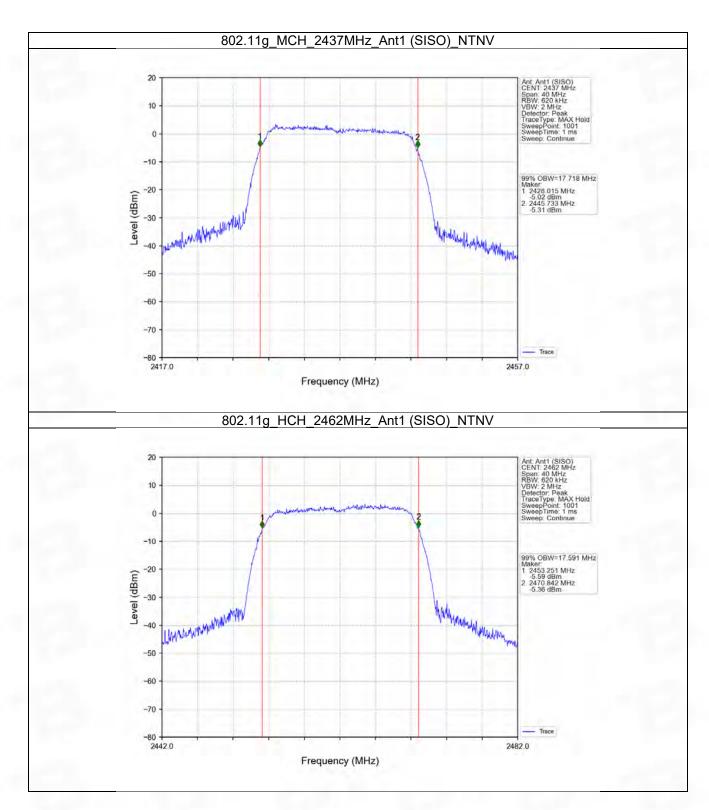


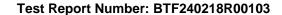




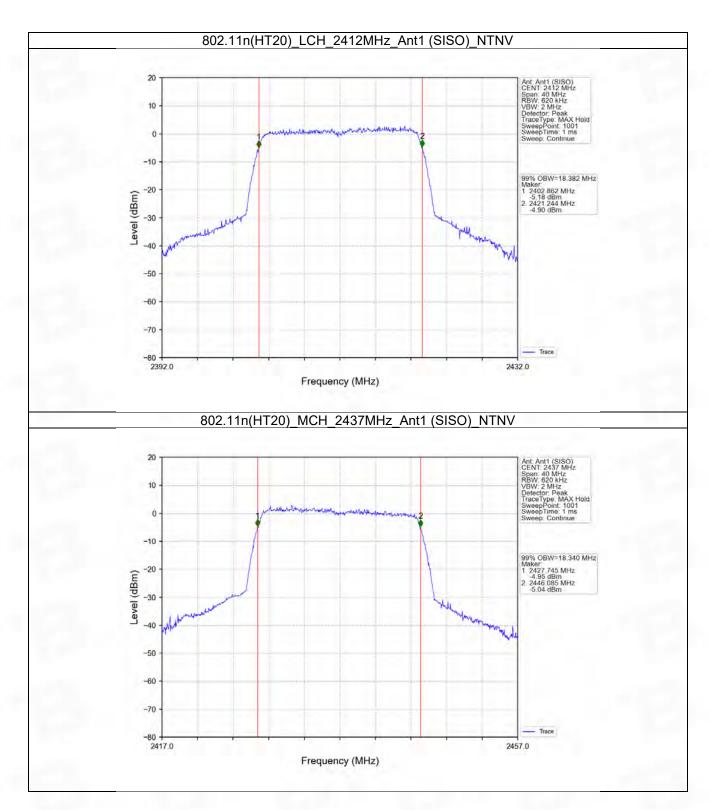


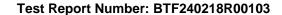




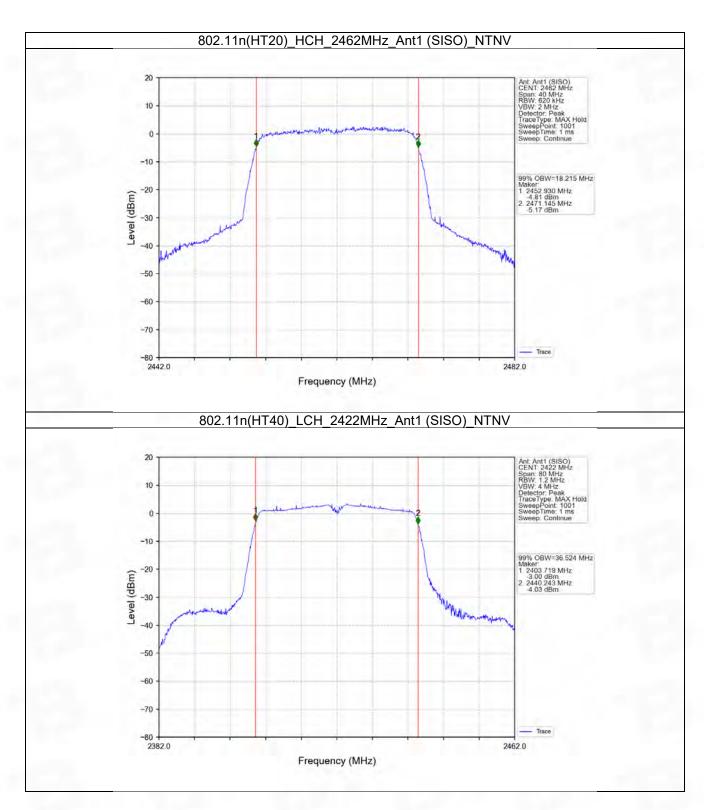


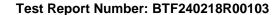




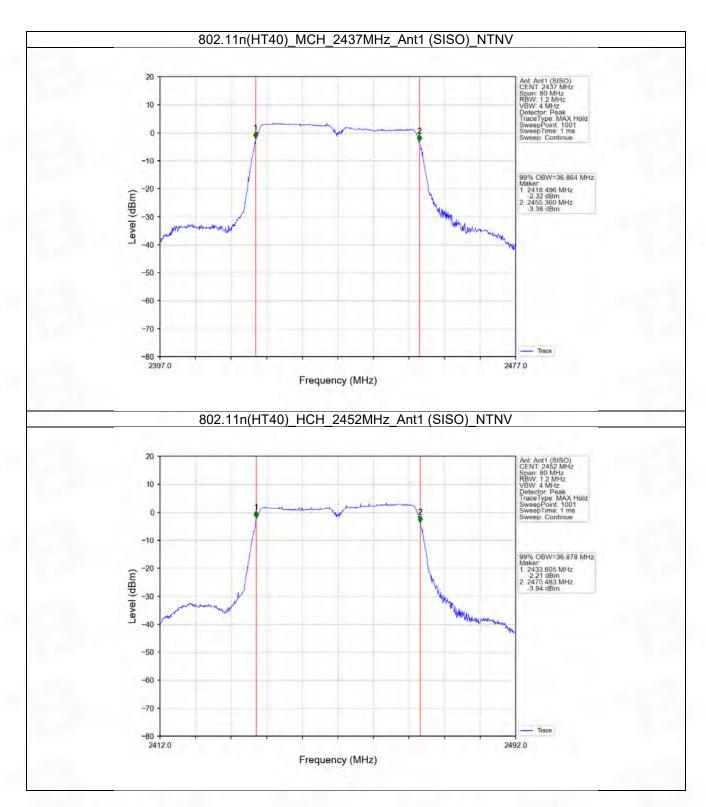


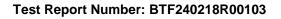










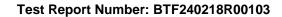




2.2 6dB BW

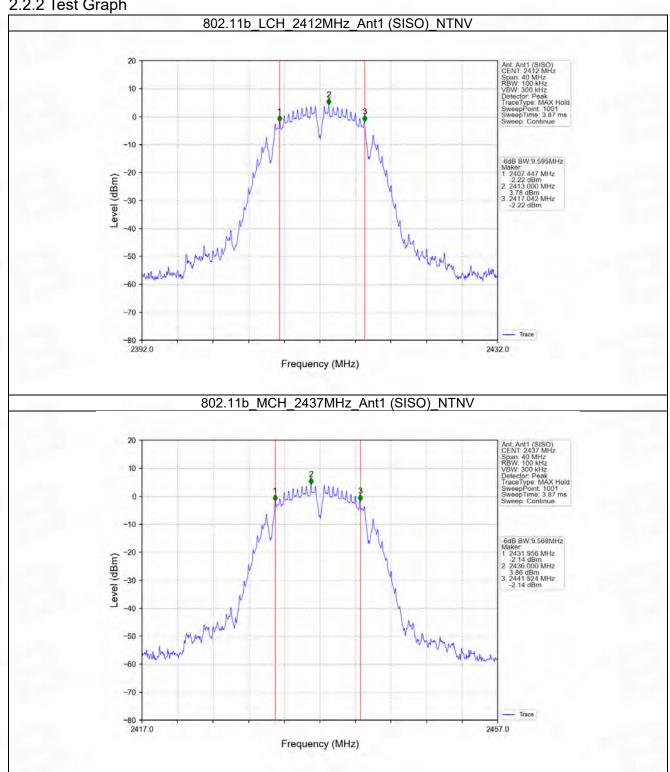
2.2.1 Test Result

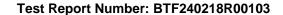
Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict	
Mode	Туре	(MHz) ANT		Result	Limit	verdict	
		2412	1	9.595	>=0.5	Pass	
802.11b	SISO	2437	1	9.568	>=0.5	Pass	
		2462	1	9.569	>=0.5	Pass	
	SISO	2412	1	16.436	>=0.5	Pass	
802.11g		2437	1	16.385	>=0.5	Pass	
		2462	1	16.127	>=0.5	Pass	
000 11=	SISO	2412	1	17.642	>=0.5	Pass	
802.11n		2437	1	17.410	>=0.5	Pass	
(HT20)		2462	1	17.335	>=0.5	Pass	
000.44	SISO	2422	1	35.659	>=0.5	Pass	
802.11n		2437	1	35.933	>=0.5	Pass	
(HT40)		2452	1	36.303	>=0.5	Pass	



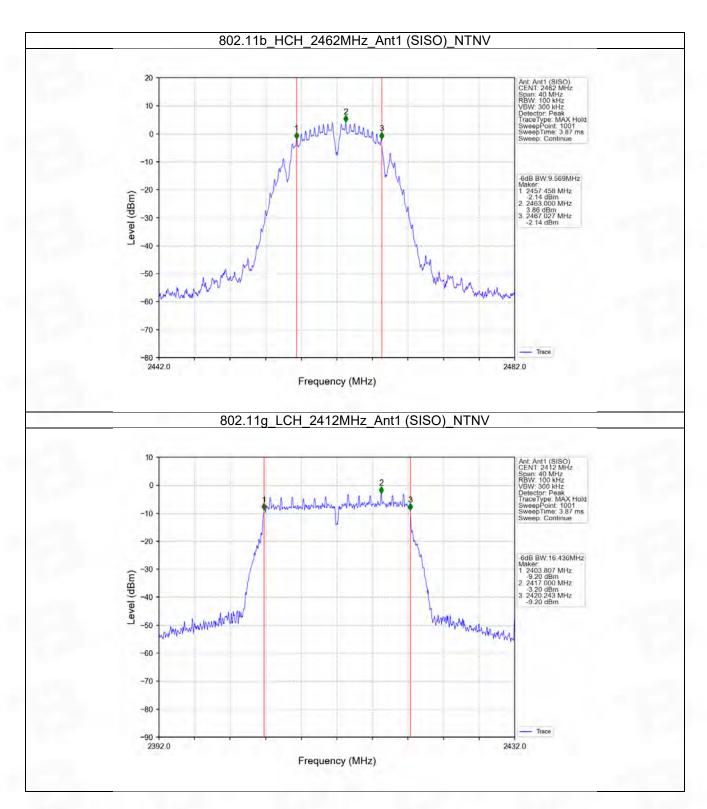


2.2.2 Test Graph

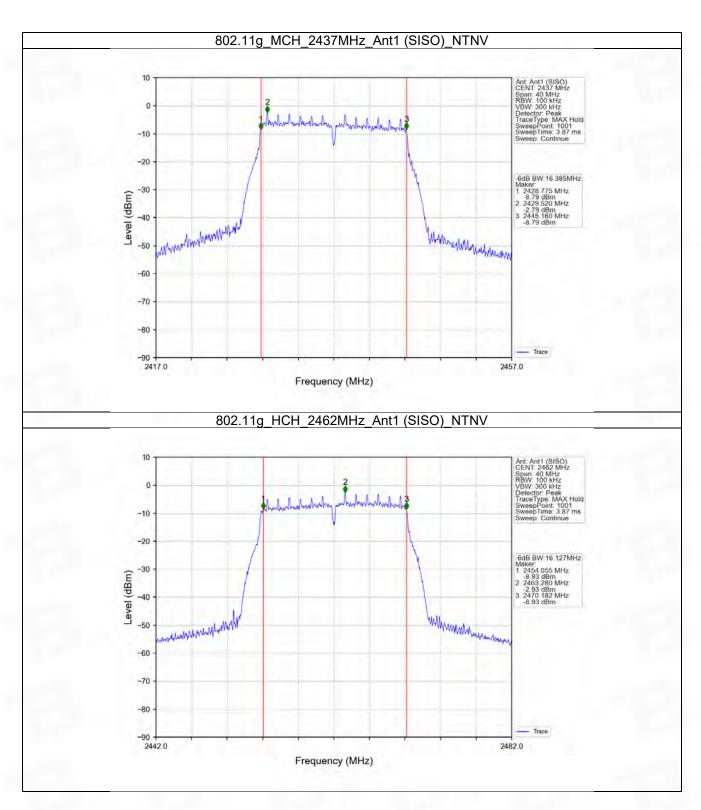


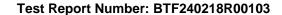




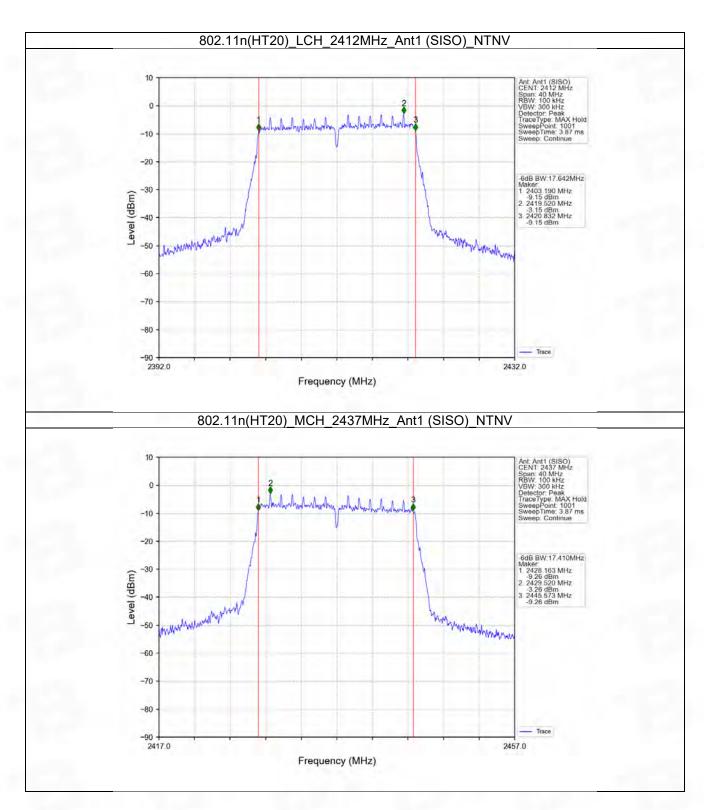


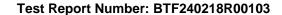




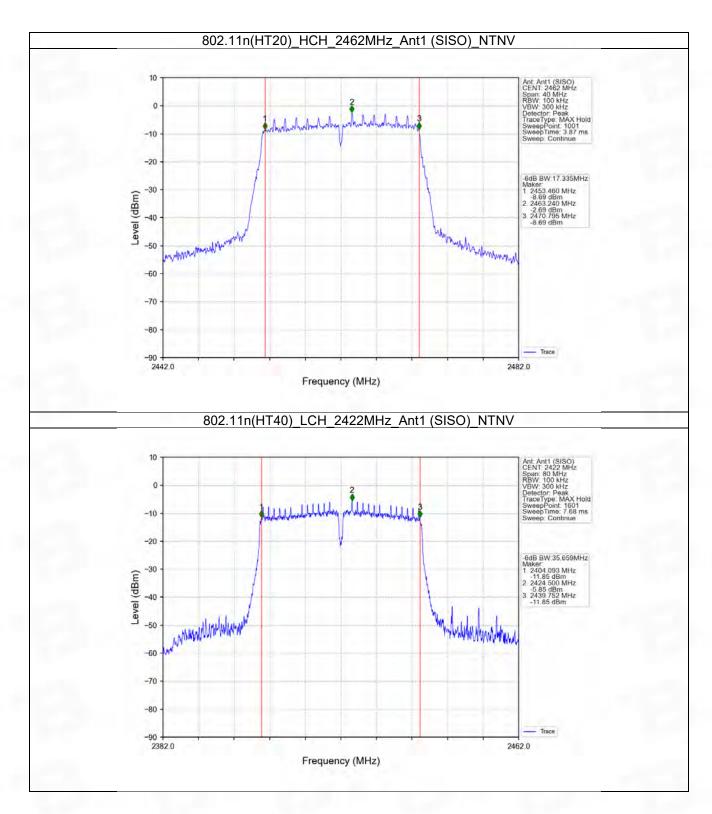


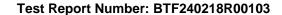




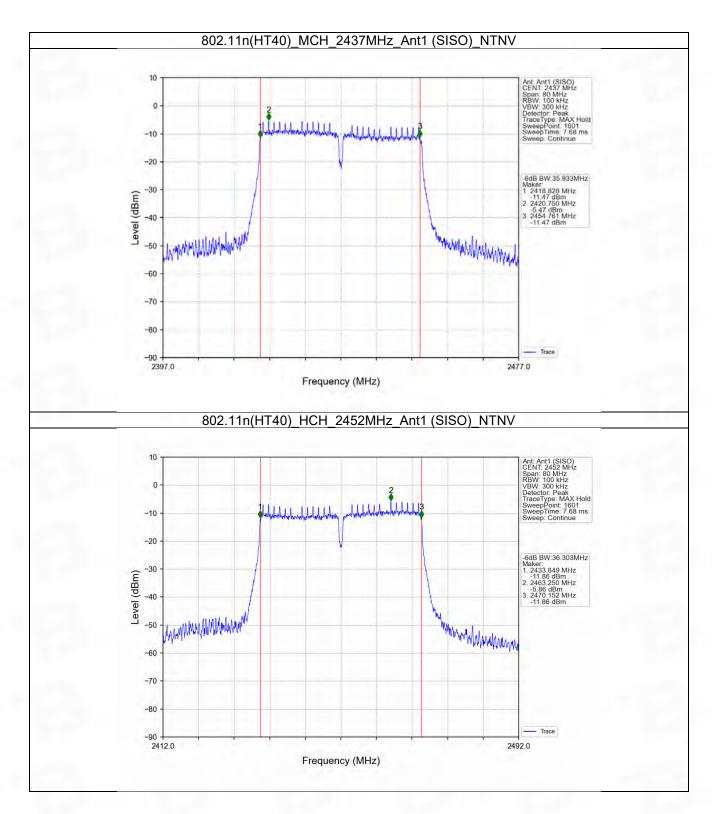


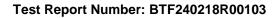














3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

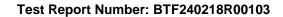
Mode	TX	Frequency	Maximum Peak Conduct	ted Output Power (dBm)	\/amaliat	
	Type	(MHz)	ANT1	Limit	Verdict	
		2412	14.86	<=30	Pass	
802.11b	SISO	2437	14.88	<=30	Pass	
		2462	14.93	<=30	Pass	
802.11g	SISO	2412	15.45	<=30	Pass	
		2437	15.72	<=30	Pass	
		2462	15.28	<=30	Pass	
000 115		2412	15.57	<=30	Pass	
802.11n (HT20)	SISO	2437	15.27	<=30	Pass	
		2462	15.61	<=30	Pass	
802.11n (HT40)		SISO	2422	15.55	<=30	Pass
			2437	15.87	<=30	Pass
		2452	15.40	<=30	Pass	

4. Maximum Power Spectral Density

4.1 PSD

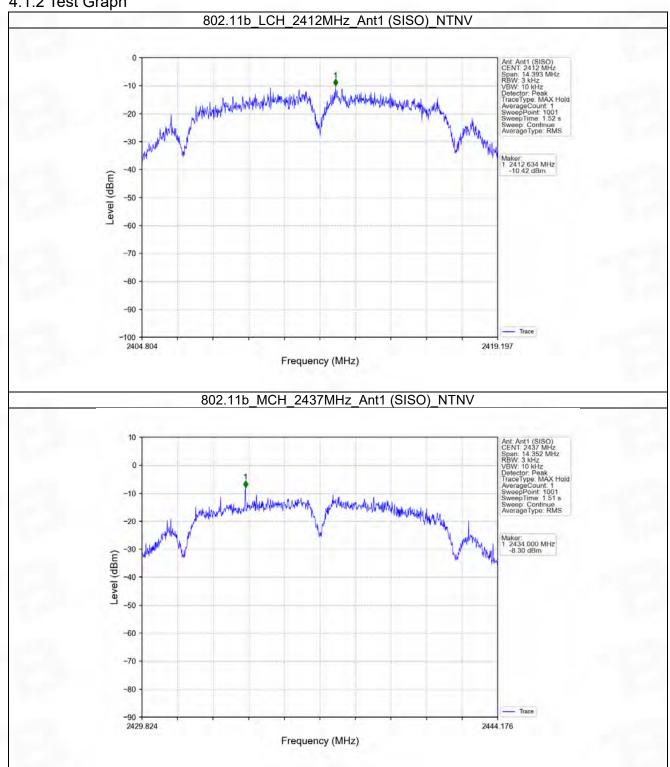
4.1.1 Test Result

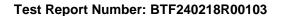
Mode TX		Frequency	Maximum PSD (dBm/3kHz)		Verdict
Type	Type	(MHz)	ANT1	Limit	verdict
		2412	-10.42	<=8	Pass
802.11b	SISO	2437	-8.30	<=8	Pass
		2462	-11.78	<=8	Pass
		2412	-18.04	<=8	Pass
802.11g	SISO	2437	-16.45	<=8	Pass
		2462	-17.72	<=8	Pass
802.11n (HT20)		2412	-18.01	<=8	Pass
	SISO	2437	-18.31	<=8	Pass
		2462	-18.33	<=8	Pass
802.11n (HT40)		2422	-21.40	<=8	Pass
	SISO	2437	-19.05	<=8	Pass
		2452	-21.28	<=8	Pass



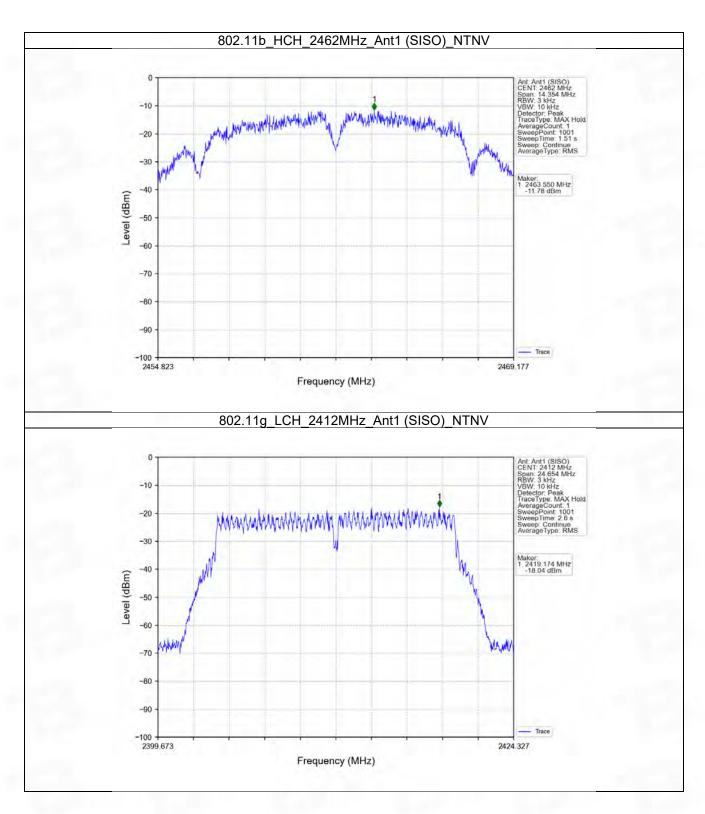


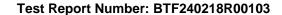
4.1.2 Test Graph



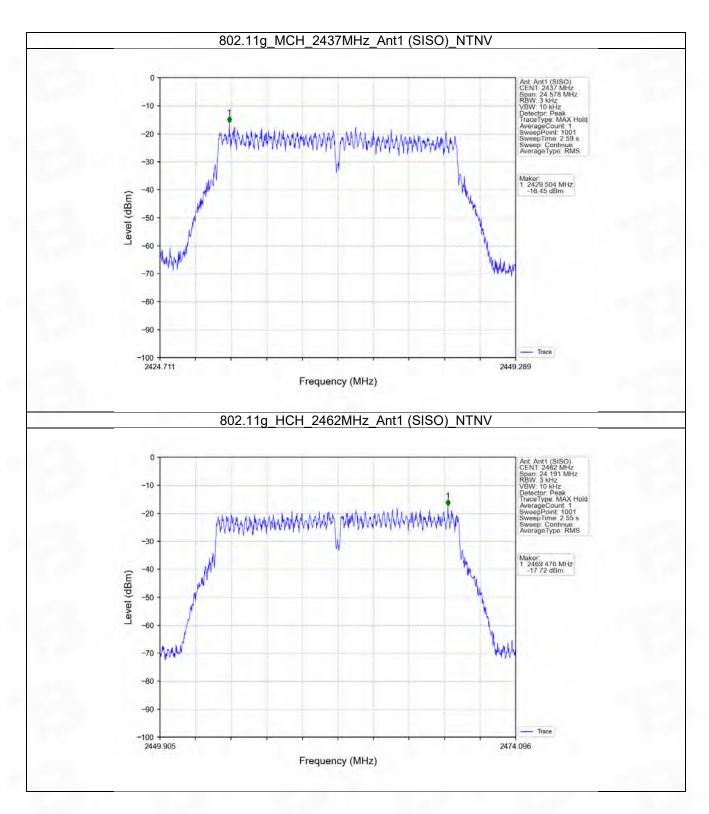


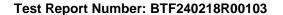




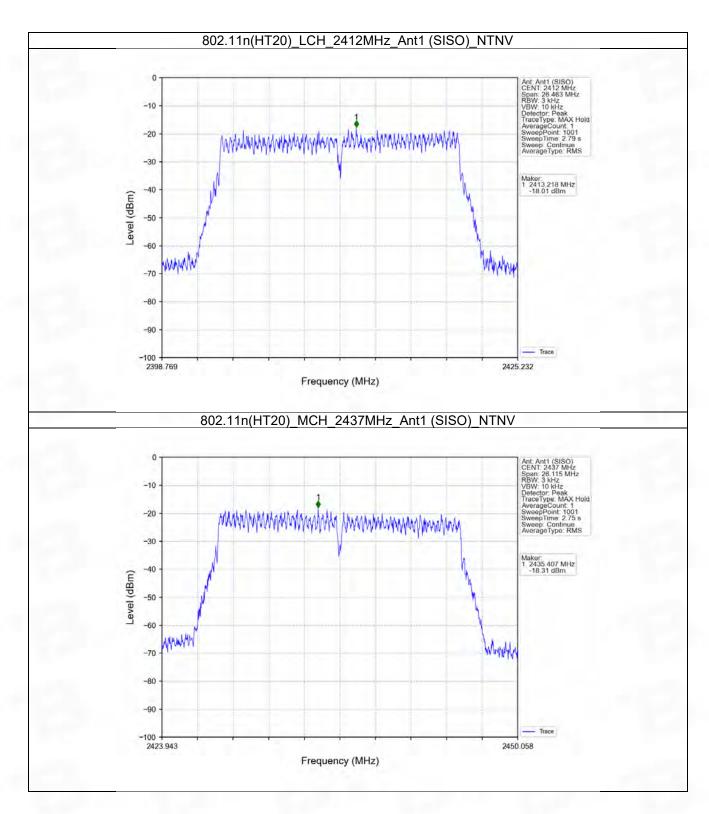


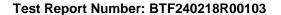




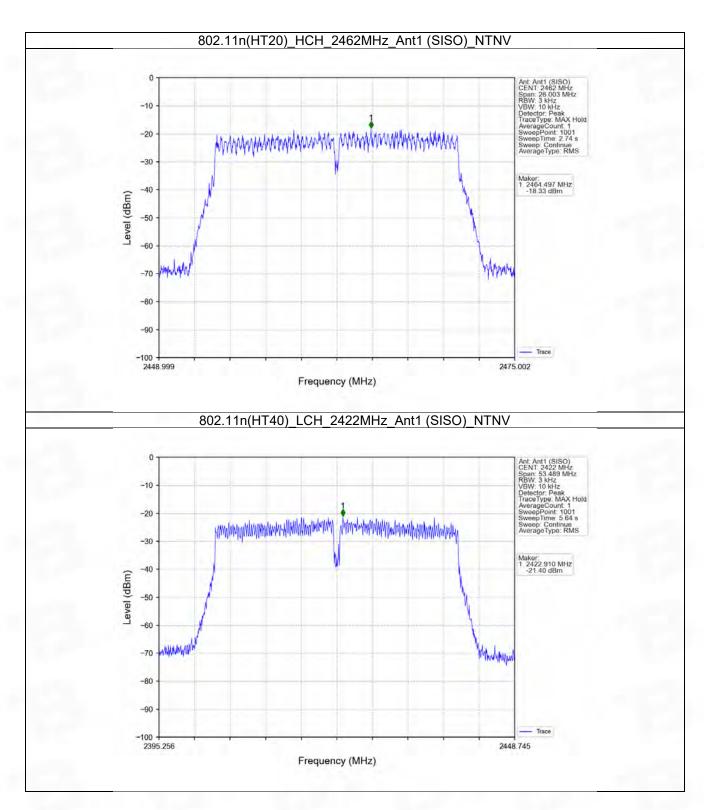


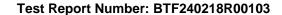




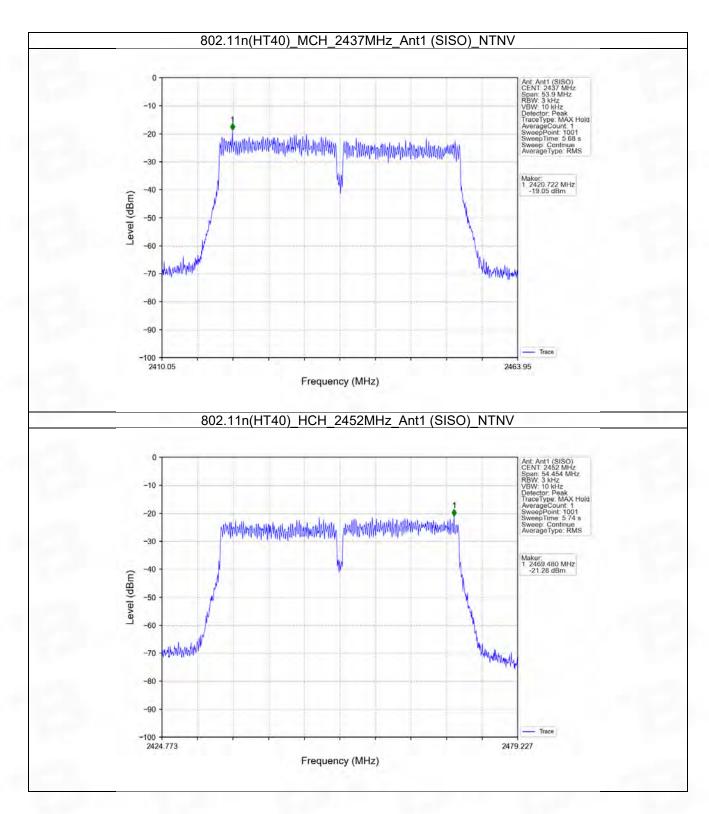


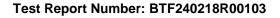














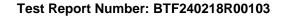
5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

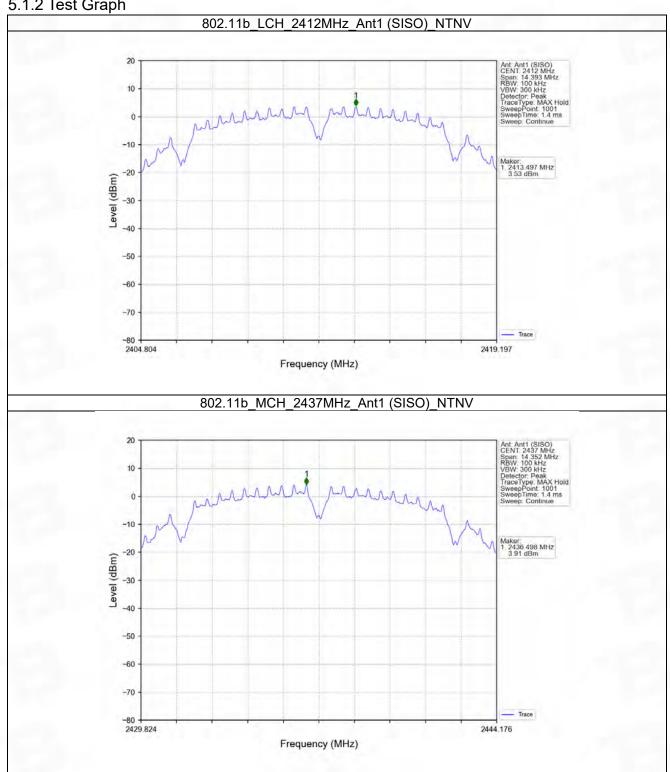
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	3.53
802.11b	SISO	2437	1	3.91
		2462	1	3.70
		2412	1	-3.14
802.11g	SISO	2437	1	-2.82
		2462	1	-2.99
202.44	SISO	2412	1	-3.16
802.11n		2437	1	-3.36
(HT20)		2462	1	-2.72
000.44	SISO	2422	1	-5.65
802.11n (HT40)		2437	1	-5.45
(11140)		2452	1	-5.86

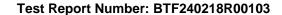
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



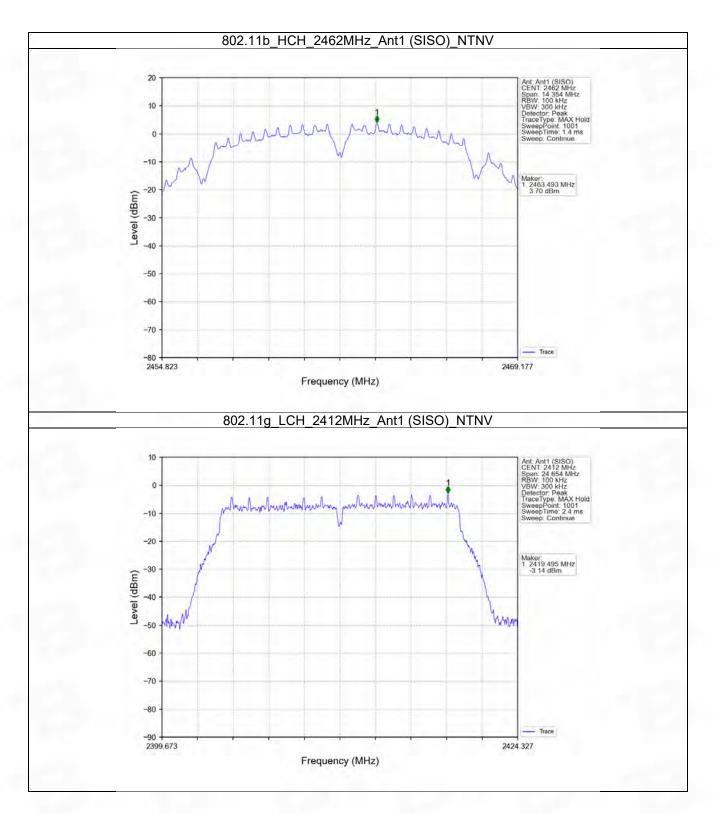


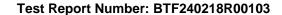
5.1.2 Test Graph



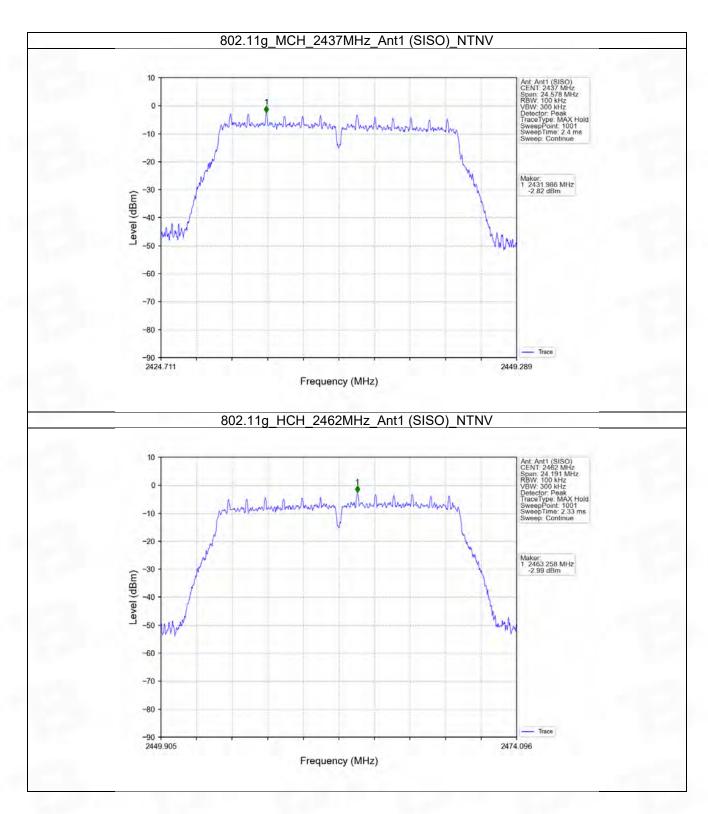


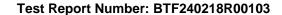




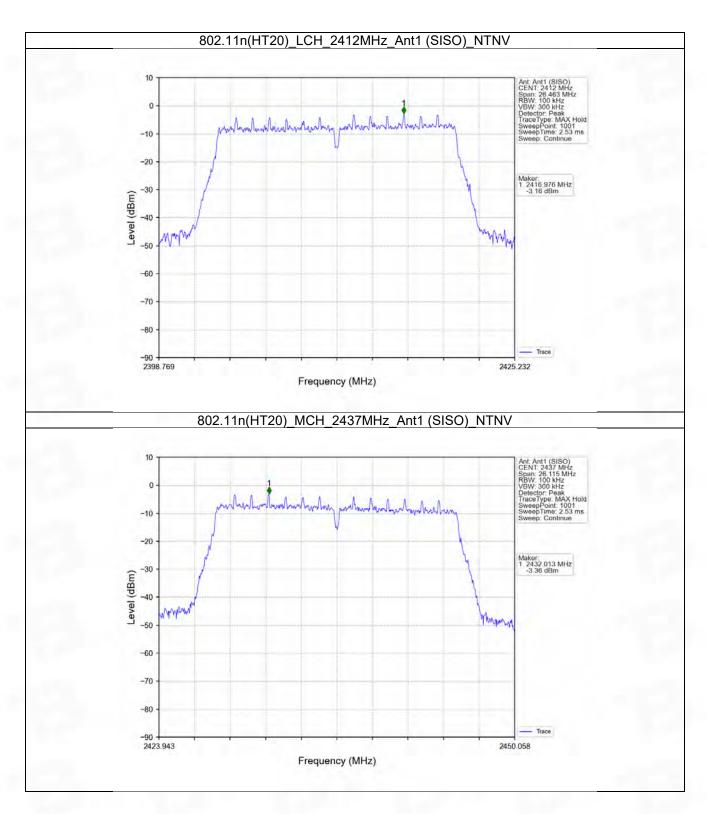


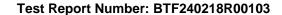




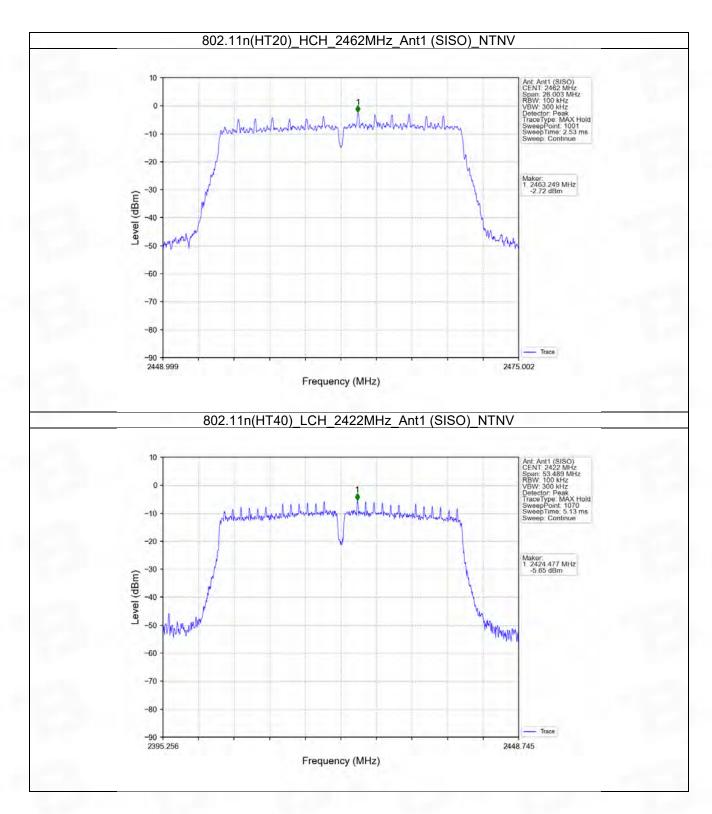


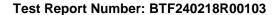




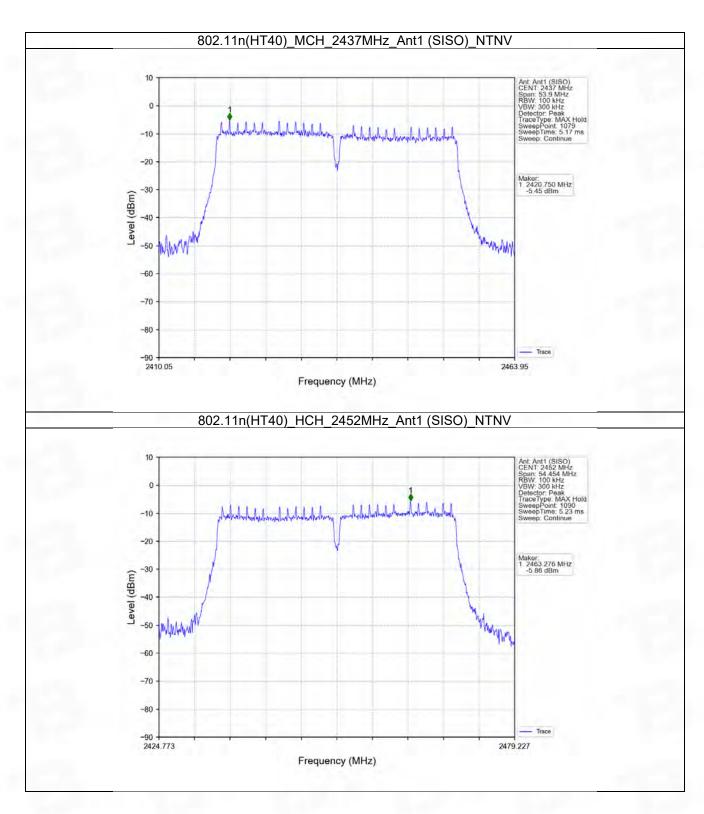


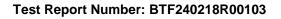












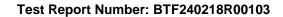


5.2 CSE

5.2.1 Test Result

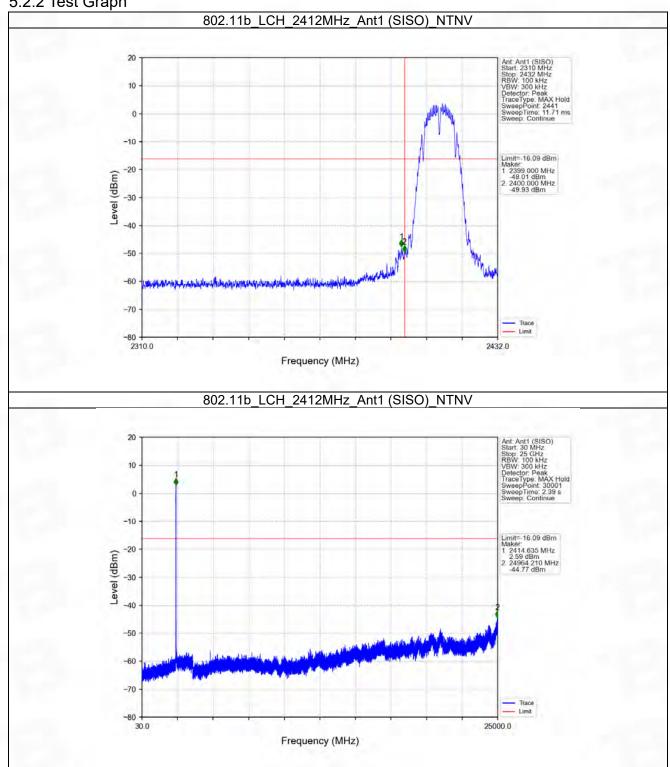
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
	,	2412	1	3.91	-16.09	Pass
802.11b	SISO	2437	1	3.91	-16.09	Pass
		2462	1	3.91	-16.09	Pass
	SISO	2412	1	-2.82	-22.82	Pass
802.11g		2437	1	-2.82	-22.82	Pass
		2462	1	-2.82	-22.82	Pass
000 115	SISO	2412	1	-2.72	-22.72	Pass
802.11n		2437	1	-2.72	-22.72	Pass
(HT20)		2462	1	-2.72	-22.72	Pass
000 11=	SISO	2422	1	-5.45	-25.45	Pass
802.11n (HT40)		2437	1	-5.45	-25.45	Pass
(11140)		2452	1	-5.45	-25.45	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.

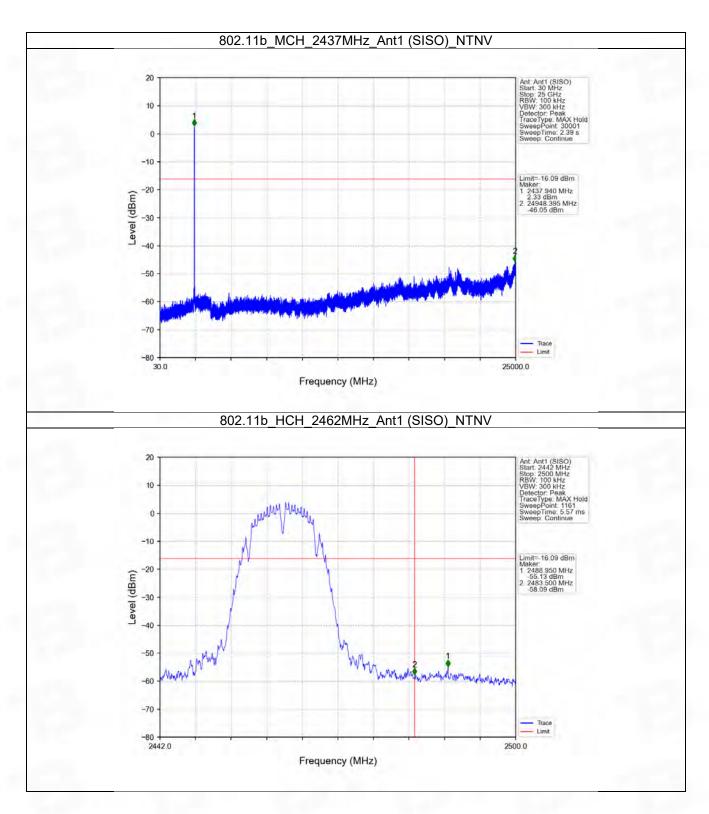




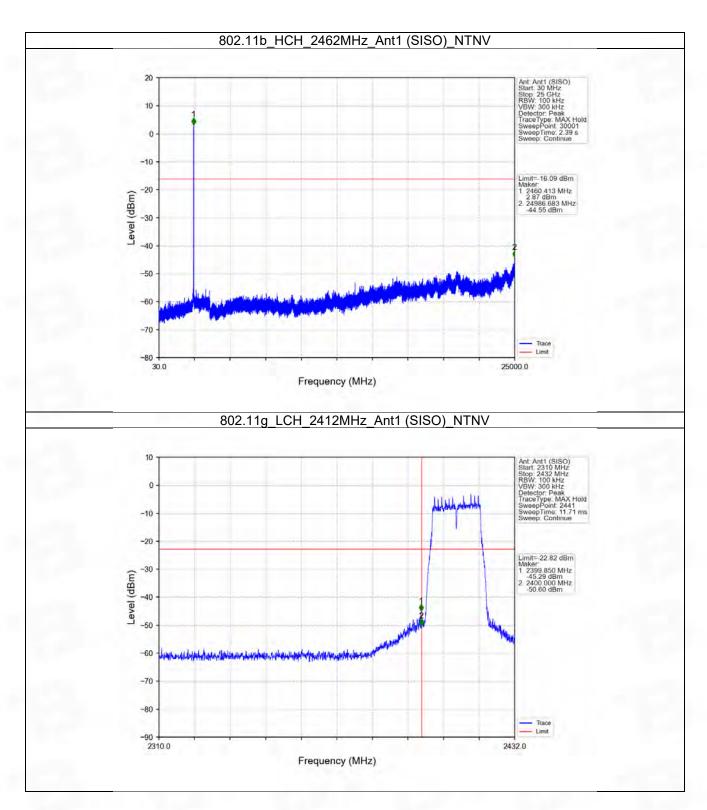
5.2.2 Test Graph



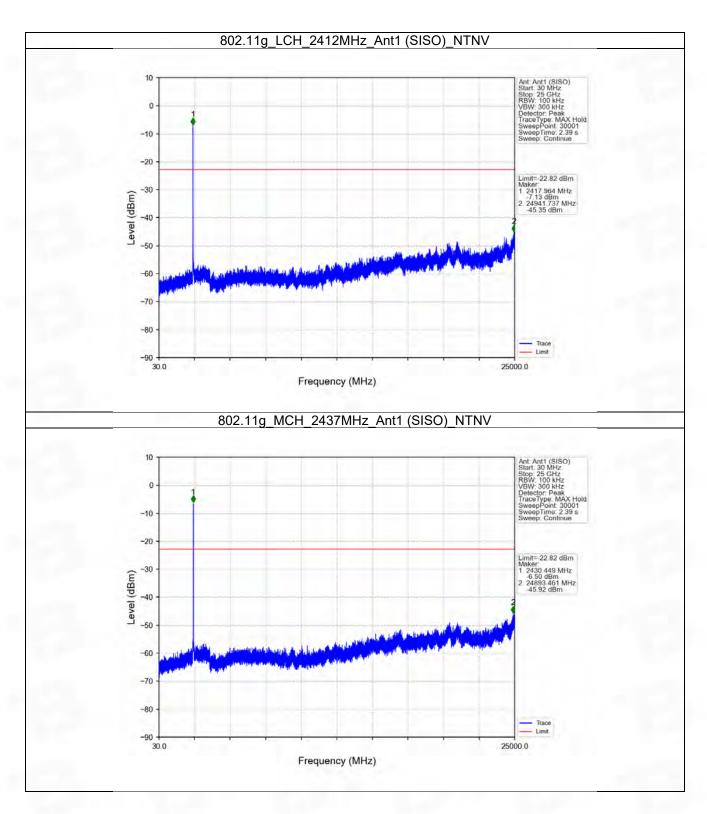




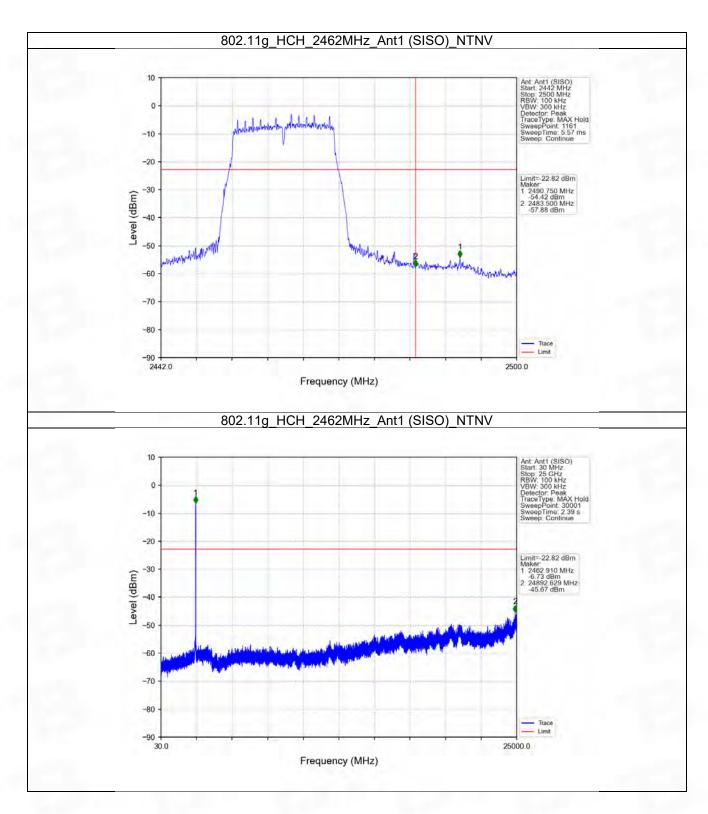




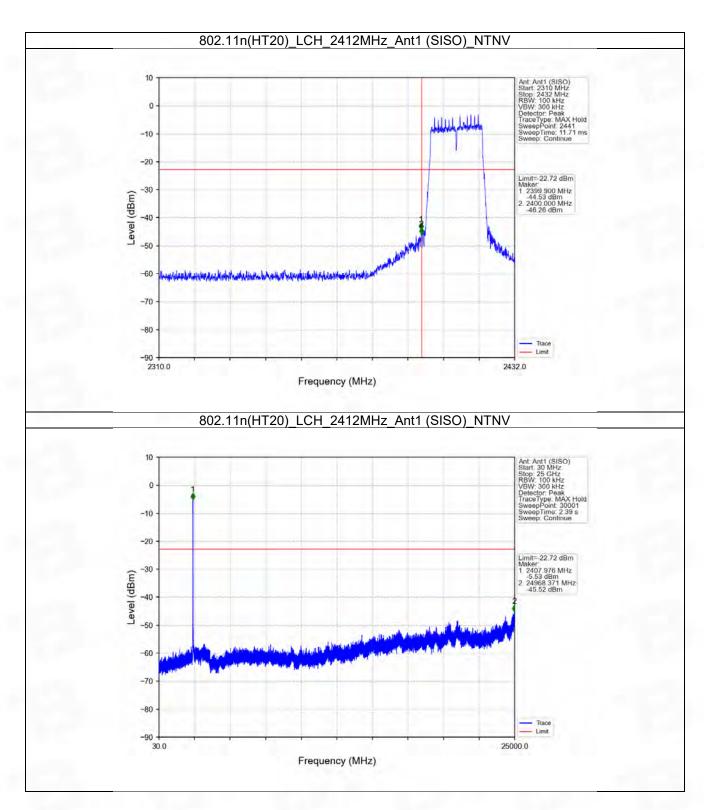




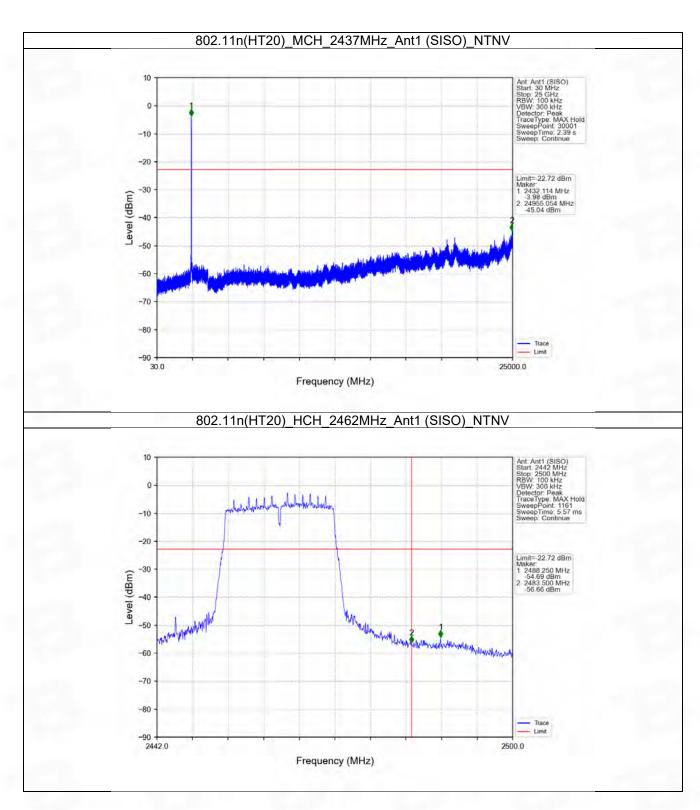




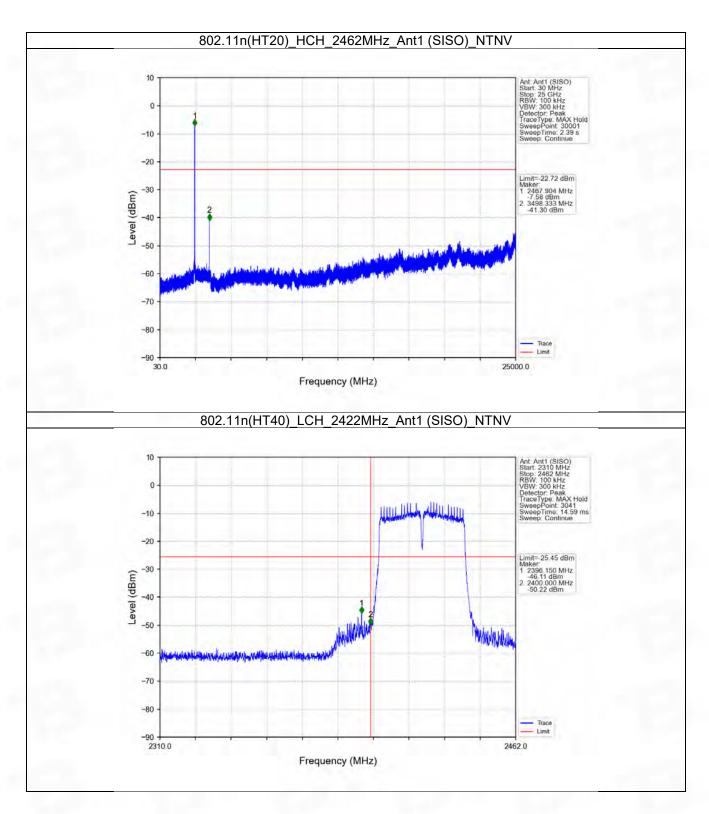




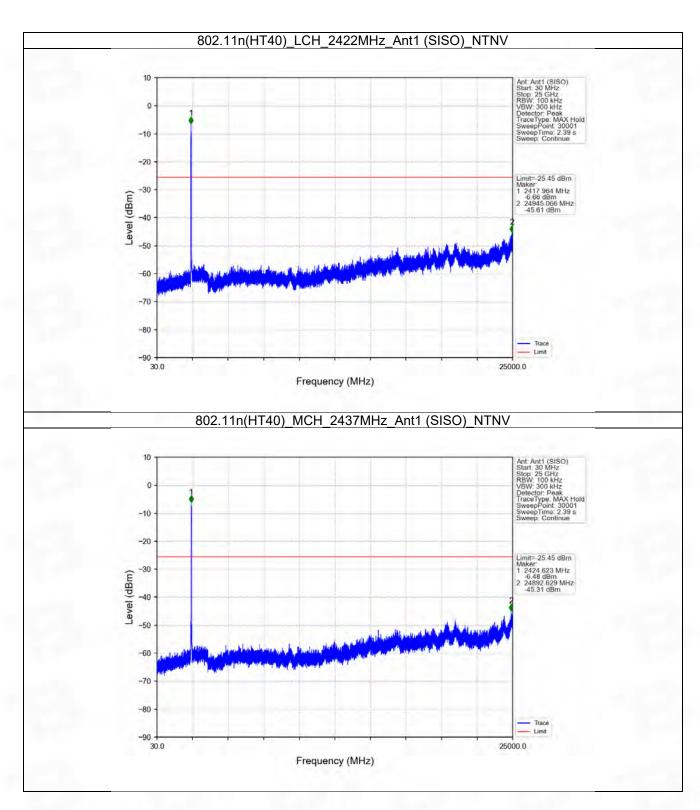




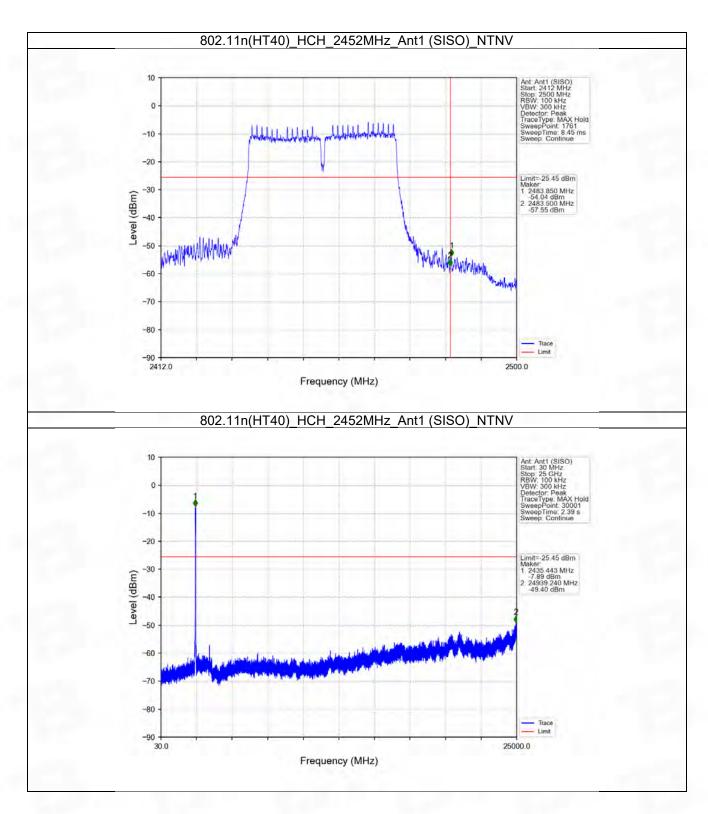


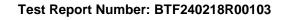












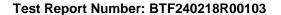


6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0373	15.72
2422	2452	0.0386	15.87







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www.btf-lab.com

-- END OF REPORT --