

RF Test Report

For

Applicant Name: DOKE COMMUNICATION (HK) LIMITED

Address: RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD

WANCHAI HK CHINA

EUT Name: Smart phone Brand Name: OSCAL

Model Number: C30

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou

Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: BTF231024R00104 Test Standards: 47 CFR Part 15E

Test Conclusion: Pass

FCC ID: 2A7DX-C30

Test Date: 2023-10-25 to 2023-11-29

Date of Issue: 2023-11-30

Prepared By: Aria Zhang

Aria Zhang / Project Engînear

Date: 2023-11-30

Approved By:

Ryan.CJ / EMC Manageria

Date: 2023-11-30

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Revision History			
Version	Issue Date	Revisions Content	
R_V0	2023-11-30	Original	
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Note: Once the I	revision has been made, then nre	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.
		F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
	Phone Number:	+86-0755-23146130
	Fax Number:	+86-0755-23146130
FCC Registration Number:		518915
	Designation Number:	CN1330

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2 Product Information

2.1 Application Information

Company Name:	DOKE COMMUNICATION (HK) LIMITED
Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

2.2 Manufacturer Information

Company Name:	Shenzhen DOKE Electronic Co., Ltd.
Address:	801, Building 3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District. Shenzhen. China

2.3 Factory Information

Company Name:	Shenzhen DOKE Electronic Co., Ltd.
Address:	801, Building 3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Smart phone
Test Model Number:	C30
Hardware Version:	HCT-M659MB-A2
Software Version:	C30 NEU M659 V1.0

2.5 Technical Information

Power Supply:	DC 3.87V from battery
Operation Frequency	U-NII Band 1: 5.18~5.24 GHz
Range	U-NII Band 3: 5.745~5.825 GHz
Frequency Block	U-NII Band 1: 5.15~5.25 GHz
	U-NII Band 3: 5.725~5.825 GHz
	802.11a: 20 MHz
Channel Bandwidth	802.11n: 20 MHz, 40 MHz
	802.11ac: 20 MHz, 40 MHz, 80MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	1.20 dBi

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 15E: Unlicensed National Information Infrastructure Devices

3.2 Uncertainty of Test

Item	Measurement Uncertainty	
Conducted Emission (150 kHz-30 MHz)	±2.64dB	

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 15E	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15E	47 CFR Part 15.207(a)	Pass
Maximum conducted output power	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)	Pass
Power spectral density	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)	Pass
Emission bandwidth and occupied bandwidth	47 CFR Part 15E	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e)	Pass
Channel Availability Check Time	47 CFR Part 15E	47 CFR Part 15.407(h)(2)(ii)	Pass
U-NII Detection Bandwidth	47 CFR Part 15E	47 CFR Part 15.407(h)(2)	Pass
Statistical Performance Check	47 CFR Part 15E	KDB 935210 D02, Clause 5.1 Table 2	Pass
Channel Move Time, Channel Closing Transmission Time	47 CFR Part 15E	47 CFR Part 15.407(h)(2)(iii)	Pass
Non-Occupancy Period Test	47 CFR Part 15E	47 CFR Part 15.407(h)(2)(iv)	Pass
DFS Detection Thresholds	47 CFR Part 15E	KDB 905462 D02, Clause 5.2 Table 3	Pass
Band edge emissions (Radiated)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass
Undesirable emission limits (below 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(9)	Pass
Undesirable emission limits (above 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(4)	Pass



47 CFR Part 15.407(b)(10)

Test Configuration 4

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			

Duty Cycle								
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			

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	1	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	1	1	/
RF Sensor Unit	Techy	TR1029-2	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
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



Power spectral density								
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			

Emission bandwidth and occupied bandwidth								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
RFTest software	1	V1.00	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			

Channel Availability Check Time								
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			



1 -	WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15
N	1XA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023-11-16	2024-11-15

U-NII Detection Bandwidth								
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			

Statistical Performance Check								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
RFTest software	1	V1.00	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	/			
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			

Channel Move Time, Channel Closing Transmission Time									
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	Dongguan Tongmen	etm-6050c	20211026123	1	1				



Power Supply	Electronic Technology Co., LTD				
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

Non-Occupancy Period Test									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
RFTest software	/	V1.00	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	/	/				
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				

DFS Detection Thresholds								
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 (Radiated)								
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	Preamplifier SCHWARZBECK BBV9744 002		00246	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	/
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
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	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

Undesirable emission	•			0.10.4	0.15.5.4
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	/
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	/
RE Cable	REBES Talent	UF2-NMNM-2.5m	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	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	/
POSITIONAL SKET		PCI-GPIB	1	1	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12



Undesirable emission limits (above 1GHz)								
Equipment	Manufacturer	Manufacturer Model No Inventor		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	REBES Talent	UF2-NMNM-2.5m	21101573	1	1			
POSITIONAL CONTROLLER	SKET	SKET PCI-GPIB		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	I SCHWARZBECK BBV		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	SKEI		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	802.11a mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2	802.11n mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
ТМ3	802.11ac mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. Only the data of worst case is recorded in the report.
TM4	Normal Operating	Keep the EUT works in normal operating mode and connect to companion device



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	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.
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6 Radio Spectrum Matter Test Results (RF)

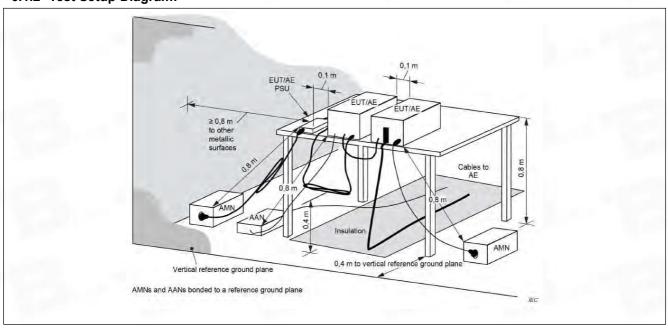
6.1 Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	47 CFR Part 15.207(a)					
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices						
	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.						

6.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.5 °C		
Humidity:	50.6 %		
Atmospheric Pressure:	1010 mbar		

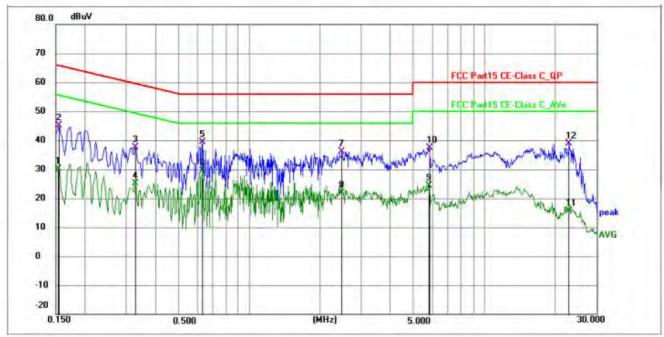
6.1.2 Test Setup Diagram:





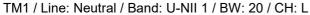
6.1.3 Test Data:

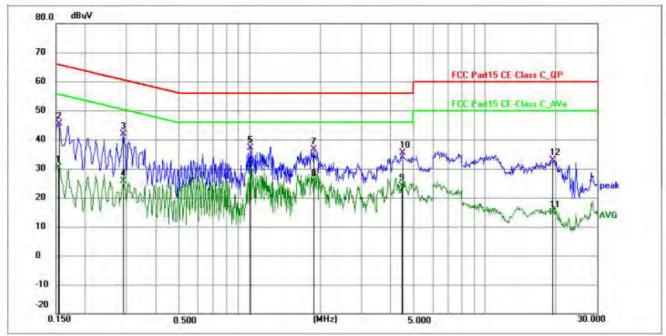
TM1 / Line: Line / Band: U-NII 1 / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1539	19.63	10.55	30.18	55.79	-25.61	AVG	Р	
2	0.1544	34.67	10.55	45.22	65.76	-20.54	QP	Р	
3	0.3255	27.08	10.60	37.68	59.57	-21.89	QP	P	
4	0.3255	14.54	10.60	25.14	49.57	-24.43	AVG	P	
5	0.6310	28.72	10.69	39.41	56.00	-16.59	QP	Р	
6 *	0.6310	18.75	10.69	29.44	46.00	-16.56	AVG	P	
7	2.4855	25.52	10.70	36.22	56.00	-19.78	QP	P	
8	2.4855	11.19	10.70	21.89	46.00	-24.11	AVG	P	
9	5.8064	13.60	10.79	24.39	50.00	-25.61	AVG	Р	
10	5.8380	26.68	10.79	37.47	60.00	-22.53	QP	P	
11	22.8612	4.56	11.04	15.60	50.00	-34.40	AVG	P	
12	22.9330	27.83	11.04	38.87	60.00	-21.13	QP	P	







No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1532	19.87	10.55	30.42	55.82	-25.40	AVG	P	
2	0.1544	34.87	10.55	45.42	65.76	-20.34	QP	P	
3	0.2893	31.36	10.60	41.96	60.54	-18.58	QP	P	
4	0.2893	14.91	10.60	25.51	50.54	-25.03	AVG	P	
5	1.0050	26.24	10.78	37.02	56.00	-18.98	QP	Р	
6 *	1.0050	19.19	10.78	29.97	46.00	-16.03	AVG	P	
7	1.8730	25.83	10.70	36.53	56.00	-19.47	QP	P	
8	1.8730	14.92	10.70	25.62	46.00	-20.38	AVG	P	
9	4.4474	13.31	10.77	24.08	46.00	-21.92	AVG	Р	
10	4.4610	24.51	10.77	35.28	56.00	-20.72	QP	P	
11	19.5000	3.91	11.00	14.91	50.00	-35.09	AVG	P	
12	19.6259	21.90	11.00	32.90	60.00	-27.10	QP	P	



6.2 Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Method:	ANSI C63.10-2013 section 12.2 (b)
Test Limit:	No limits, only for report use.
Procedure:	 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

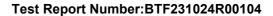
6.2.2 Test Data:

Please Refer to Appendix for Details.



6.3 Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Method:	ANSI C63.10-2013, section 12.3
	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Limit:	For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
	For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.





	For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the
	directional gain of the antenna exceeds 6 dBi.
	However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain
	directional antennas are used exclusively for fixed, point-to-point operations.
	Method SA-1
	a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz.
	c) Set VBW >= 3 MHz.
	d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so
	that narrowband signals are not lost between frequency bins.)
	e) Sweep time = auto. f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
	g) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering
	only on full power pulses. The transmitter shall operate at maximum power control level for the
Procedure:	entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or
	at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level,
	then the trigger shall be set to "free run."
	h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal
	using the instrument's band power measurement function, with band limits set equal to the
	EBW or OBW band edges. If the instrument does not have a band power function, then sum the
	spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99%
	OBW of the spectrum.

6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.3.2 Test Data:

Please Refer to Appendix for Details.



6.4 Power spectra	I density
Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Method:	ANSI C63.10-2013, section 12.5
	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.
	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Limit:	For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter



	conducted nower
	conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
	a) Create an average power spectrum for the EUT operating mode being tested by following the instructions in 12.3.2 for measuring maximum conducted output power using a spectrum analyzer or EMI receiver; that is, select the appropriate test method (SA-1, SA-2, SA-3, or their respective alternatives) and apply it up to, but not including, the step labeled, "Compute
	power" (This procedure is required even if the maximum conducted output power measurement was performed using the power meter method PM.) b) Use the peak search function on the instrument to find the peak of the spectrum. c) Make the following adjustments to the peak value of the spectrum, if applicable: 1) If method SA-2 or SA-2A was used, then add [10 log (1 / D)], where D is the duty cycle, to the peak of the spectrum. 2) If method SA-3A was used and the linear mode was used in step h) of 12.3.2.7,
Procedure:	add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. d) The result is the PPSD.
	e) The procedure in item a) through item c) requires the use of 1 MHz resolution bandwidth to satisfy the 1 MHz measurement bandwidth specified by some regulatory authorities. This
	requirement also permits use of resolution bandwidths less than 1 MHz "provided that the measured power is integrated to show the total power over the measurement
	bandwidth" (i.e., 1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated
	over 1 MHz bandwidth, the following adjustments to the procedures apply: 1) Set RBW >= 1 / T, where T is defined in 12.2 a). 2) Set VBW >= [3 × RBW].
	Care shall be taken such that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.
6 4 4 E II T Operation	

6.4.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.5 °C	
Humidity:	50.6 %	
Atmospheric Pressure:	1010 mbar	

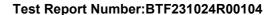
6.4.2 Test Data:

Please Refer to Appendix for Details.



6.5 Emission bandwidth and occupied bandwidth

Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.			
rest Requirement.	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)			
Test Method:	ANSI C63.10-2013, section 6.9.3 & 12.4 KDB 789033 D02, Clause C.2			
	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.			
Test Limit:	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.			
	Emission bandwidth: a) Set RBW = approximately 1% of the emission bandwidth. b) Set the VBW > RBW.			
	c) Detector = peak.			
	d) Trace mode = max hold. e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission.			
	Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement			
	as needed until the RBW/EBW ratio is approximately 1%.			
	Occupied bandwidth:			
	a) The instrument center frequency is set to the nominal EUT channel center frequency. The			
	frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.			
	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW,			
	and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.			
Procedure:	c) Set the reference level of the instrument as required, keeping the signal from exceeding the			
	maximum input mixer level for linear operation. In general, the peak of the spectral envelope			
	shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given			
	in 4.1.5.2. d) Step a) through step c) might require iteration to adjust within the specified range.			
	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode			
	shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be			
	used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured			
	bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace			
	data points are recovered and directly summed in linear power terms. The recovered amplitude data points,			
	beginning at the lowest frequency, are placed in a running sum until 0.5% of the			





total is reached;

that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the

total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is

the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument

display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may

be reported in addition to the plot(s).

6 dB emission bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (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.

6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.5.2 Test Data:

Please Refer to Appendix for Details.



6.6 Band edge emissions (Radiated)

	17 OFF P. 145 407(1)	(4)		
	47 CFR Part 15.407(b)	` '		
Test Requirement:	47 CFR Part 15.407(b)(2)			
rest requirement.	47 CFR Part 15.407(b))(4)		
	47 CFR Part 15.407(b)(10)			
Test Method:	ANSI C63.10-2013, se	ction 12.7.4, 12.7.5, 12	.7.6	
		ting in the 5.15-5.25 Gh nall not exceed an e.i.r.		
		ting in the 5.25-5.35 GH nall not exceed an e.i.r.		
	For transmitters operat	ting solely in the 5.725-	5.850 GHz band	l:
	or below the band edge, a below the band edge, a	limited to a level of −27 e increasing linearly to and from 25 MHz above .6 dBm/MHz at 5 MHz	10 dBm/MHz at e or below the ba	25 MHz above or and edge increasing
	from 5 MHz above or b	elow the band edge in	creasing linearly	to a level of 27
	dBm/MHz at the band	edge.		
	MHz	MHz	MHz	GHz
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	¹0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
	4.20725-4.20775	73-74.6	1645.5-1646. 5	9.3-9.5
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
	6.26775-6.26825	108-121.94	1718.8-1722. 2	13.25-13.4
Test Limit:	6.31175-6.31225	123-138	2200-2300	14.47-14.5
	8.291-8.294	149.9-150.05	2310-2390	
				15.35-16.2
	8.362-8.366	156.52475-156.525 25	2483.5-2500	17.7-21.4
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
	12.57675-12.52025 12.57675-12.57725 13.36-13.41	322-335.4	3600-4400	(²)
	¹ Until February 1, 1999	9, this restricted band s	nall be 0.490-0.5	510 MHz.
	² Above 38.6			
	exceed the limits show MHz, compliance with measurement instrume 1000 MHz, compliance	missions appearing with in § 15.209. At frequenthe limits in § 15.209shentation employing a Clewith the emission limit value of the measured easurements.	encies equal to c all be demonstra SPR quasi-peak s in § 15.209sha	or less than 1000 ated using a detector. Above all be demonstrated
	Event	and and in this and in t	the excitation of	
	Except as provided els	ewhere in this subpart,	the emissions fi	rom an intentional



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
Above 960	500	3
Above 1GHz:		
a. For above 1GHz, the	EUT was placed on the top of	a rotating table 1.5 met

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6.6.1 E.U.T. Operation:

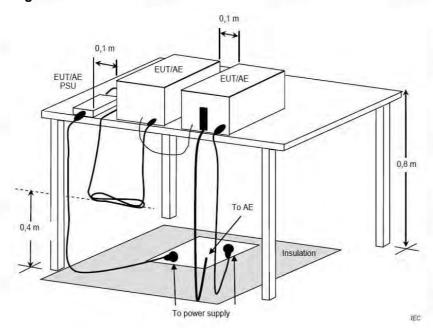
Procedure:

Operating Environment:	
Temperature:	25.5 °C



Humidity:	50.6 %
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

UNII-1 20M 5180MHz Ho	orizontai
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5139.200	76.28	-27.25	49.03	74.00	-24.97	peak	P
2	5150.000	75.25	-27.24	48.01	74.00	-25.99	peak	Р

UNII-1 20M_5180MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5126.000	77.89	-27.26	50.63	74.00	-23.37	peak	Р
2	5150.000	76.13	-27.24	48.89	74.00	-25.11	peak	P

UNII-1 20M_5240MHz_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	42.86	6.37	49.23	74.00	-24.77	peak	Р
2 *	5460.000	42.70	6.57	49.27	74.00	-24.73	peak	P

UNII-1 20M_5240MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	46.67	4.63	51.30	74.00	-22.70	peak	Р
2 *	5460.000	47.10	4.79	51.89	74.00	-22.11	peak	Р

UNII-3 40M 5755MHz Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.000	86.48	-30.88	55.60	68.20	-12.60	peak	Р
2	5700.000	93.42	-30.99	62.43	105.60	-43.17	peak	P
3	5720.000	94.32	-31.05	63.27	110.8	-47.53	peak	Р

UNII-3 40M 5755MHz Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.000	87.50	-30.43	57.07	68.20	-11.13	peak	Р
2	5700.000	94.44	-30.54	63.90	105.60	-41.70	peak	P
3	5720.000	95.34	-30.60	64.74	110.8	-46.06	peak	P

UNII-3 40M 5795MHz Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.000	89.90	-30.88	59.02	122.20	-63.18	peak	Р
2	5875.000	96.84	-30.99	65.85	110.80	-44.95	peak	Р
3	5925.000	97.74	-31.05	66.69	68.20	-1.51	peak	Р



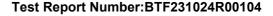
UNII-3_40M_5795MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.000	86.74	-30.43	56.31	122.20	-65.89	peak	P
2	5875.000	93.68	-30.54	63.14	110.80	-47.66	peak	P
3	5925.000	94.58	-30.60	63.98	68.20	-4.22	peak	P



6.7 Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)						
Test Method:	ANSI C63.10-2013, sec	etion 12.7.4, 12.7.5, 12.7.6					
Test Limit:	limits set forth in § 15.20 Except as provided else	elow 1 GHz must comply with 09. ewhere in this subpart, the em d the field strength levels spe Field strength (microvolts/meter)	nissions from an intentional cified in the following table: Measurement distance				
rest Limit:	0.000.0.400	2400/⊑/比Ц=)	(meters)				
	0.009-0.490 0.490-1.705 1.705-30.0 30-88 88-216 216-960 Above 960	2400/F(kHz) 24000/F(kHz) 30 100 ** 150 ** 200 **	300 30 30 3 3 3 3				
Procedure:	Below 1GHz: a. For below 1GHz, the above the ground at a 3 degrees to determine the b. The EUT was set 3 owhich was mounted on c. The antenna height is determine the maximum polarizations of the antend. For each suspected of the antenna was tuned of below 30MHz, the and was turned from 0 degree. The test-receiver system Bandwidth with Maximum f. If the emission level of specified, then testing of reported. Otherwise the re-tested one by one used that sheet. g. Test the EUT in the long. The radiation measured that the entire that	EUT was placed on the top of a meter semi-anechoic chamble position of the highest radial or 10 meters away from the intendent the top of a variable-height are solved from one meter to foun value of the field strength. Beana are set to make the meatemission, the EUT was arrange to heights from 1 meter to 4 notes that the meatem is solved from 1 meter to 4 notes to 360 degrees to find the tem was set to Peak Detect F	of a rotating table 0.8 meters are. The table was rotated 360 ation. erference-receiving antenna, atenna tower. If meters above the ground to both horizontal and vertical surement. If ged to its worst case and then are ters (for the test frequency meter) and the rotatable table amaximum reading. Function and Specified 10dB lower than the limit are values of the EUT would be ecified and then reported in a samel, the Highest channel. If Z axis positioning for which it is the worst case. Sured was complete. Preamp Factor 30MHz was very low. The ons could be found when amplitude of spurious are than 20dB below the limit are harmonics were the highest				





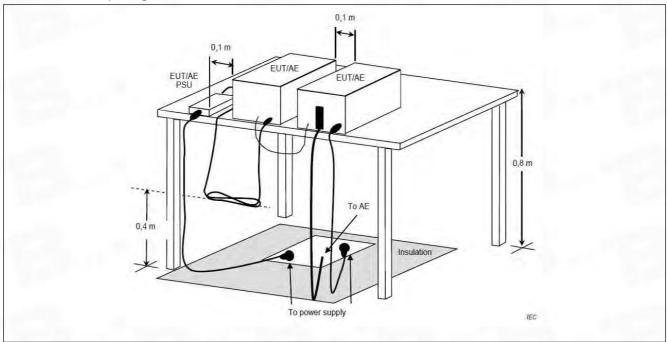
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6.7.1 E.U.T. Operation:

Operating Environment:						
Temperature:	25.5 °C					
Humidity:	50.6 %					
Atmospheric Pressure:	1010 mbar					



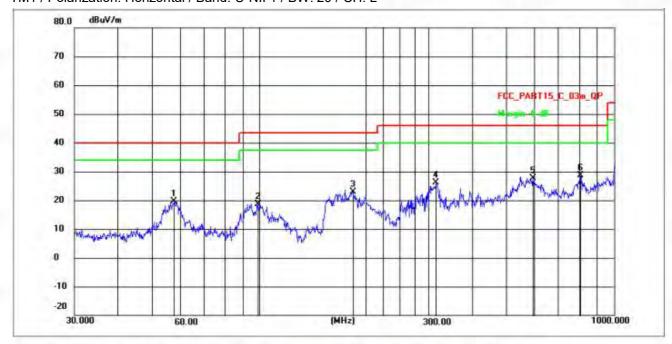
6.7.2 Test Setup Diagram:





6.7.3 Test Data:

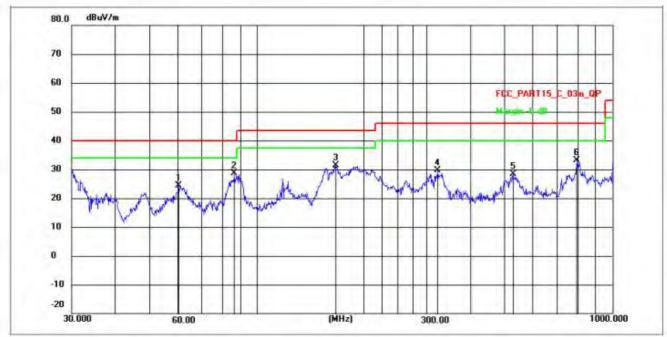
Note: All the mode have been tested, and only the worst case mode are in the report TM1 / Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	57.4930	38.44	-18.70	19.74	40.00	-20.26	peak	Р
2	99.1795	37.04	-18.40	18.64	43.50	-24.86	peak	Р
3	183.5220	39.11	-16.15	22.96	43.50	-20.54	peak	P
4	315.4806	38.30	-12.17	26.13	46.00	-19.87	peak	P
5	590.9737	31.78	-4.06	27.72	46.00	-18.28	peak	Р
6 *	808.8459	30.36	-1.85	28.51	46.00	-17.49	peak	Р







No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	60.1745	42.79	-18.33	24.46	40.00	-15.54	peak	Р
2 *	86.3512	49.36	-20.65	28.71	40.00	-11.29	peak	Р
3	166.9438	45.29	-13.93	31.36	43.50	-12.14	peak	Р
4	322.7540	42.17	-12.45	29.72	46.00	-16.28	peak	Р
5	525.4746	32.77	-4.31	28.46	46.00	-17.54	peak	Р
6	793.3960	34.56	-1.42	33.14	46.00	-12.86	peak	Р



6.8 Undesirable emission limits (above 1GHz)

1	0.0 011400114510 011	11551011 IIIIIILS (ADOV							
		47 CFR Part 15.407(b)							
	Test Requirement:	47 CFR Part 15.407(b)							
	root roquiroment.	47 CFR Part 15.407(b)							
		47 CFR Part 15.407(b)(10)							
	Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6							
		For transmitters operati							
		5.15-5.35 GHz band sh							
		For transmitters operati	ing in the 5.25-5.35 GH	⋅lz band: All emis	ssions outside of the				
		5.15-5.35 GHz band sh	nall not exceed an e.i.r.	p. of −27 dBm/N	IHz.				
		For transmitters operati	ing solely in the 5 725	5 850 GHz band	ı.				
		All emissions shall be li							
		or below the band edge							
		below the band edge, a							
		linearly to a level of 15.							
		from 5 MHz above or b		creasing linearly	to a level of 27				
		dBm/MHz at the band of	_						
		MHz	MHz	MHz	GHz				
		0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
		¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
		2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
		4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
		4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
		4.20725-4.20775	73-74.6	1645.5-1646.	9.3-9.5				
				5					
		6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
		6.26775-6.26825	108-121.94	1718.8-1722.	13.25-13.4				
		0.20773-0.20023	100-121.94	2	13.23-13.4				
		6 24475 6 24225	400 400		44 47 44 5				
	Test Limit:	6.31175-6.31225	123-138	2200-2300	14.47-14.5				
		8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
		8.362-8.366	156.52475-156.525	2483.5-2500	17.7-21.4				
			25						
		8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
		8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
		12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
		12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
		12.57675-12.57725	322-335.4	3600-4400	(2)				
		13.36-13.41			()				
		¹ Until February 1, 1999	, this restricted band sl	hall be 0.490-0.5	510 MHz.				
		The field strength of em							
		exceed the limits show	n in § 15.209. At freque	encies equal to c	or less than 1000				
		MHz, compliance with t	the limits in § 15.209sh	all be demonstra	ated using				
		measurement instrume	ntation employing a CI	SPR quasi-peak	detector. Above				
		1000 MHz, compliance	with the emission limit	s in § 15.209sha	all be demonstrated				
		based on the average v							
		15.35apply to these me							
		Event as provided ele-	awhere in this subport	the emissions for	rom an intentional				
		Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:							
		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
	Above 960	500	3
Procedure:	Above 1GHz: a. For above 1GHz, tabove the ground at a degrees to determine b. The EUT was set 3 was mounted on the c. The antenna heigh determine the maxim polarizations of the ad. For each suspecte the antenna was tune of below 30MHz, the was turned from 0 dee. The test-receiver sepandwidth with Maximal for the emission lever specified, then testing reported. Otherwise the re-tested one by one in a data sheet. g. Test the EUT in the h. The radiation means transmitting mode, and i. Repeat above procein Remark: 1. Level= Read Level 2. Scan from 18GHz points marked on about testing, so only above emissions from the raneed not be reported 3. As shown in this seare based on average not exceed the maximal dB under any conditions.	the EUT was placed on the top of a 3 meter fully-anechoic chamber the position of the highest radial 3 meters away from the interferent top of a variable-height antenna it is varied from one meter to four um value of the field strength. Both tenna are set to make the meast demission, the EUT was arranged to heights from 1 meter to 4 mantenna was tuned to heights 1 rigrees to 360 degrees to find the ystem was set to Peak Detect Funum Hold Mode. I of the EUT in peak mode was 1 ground be stopped and the peak he emissions that did not have 1 using peak or average method as a lowest channel, the middle charse surements are performed in X, Y, and found the X axis positioning we dures until all frequencies meast + Cable Loss+ Antenna Factor-I to 40GHz, the disturbance above plots are the highest emission to points had been displayed. The adiator which are attenuated more	r. The table was rotated 360 tion. Ince-receiving antenna, which tower. In meters above the ground to oth horizontal and vertical surement. Index to its worst case and then eters (for the test frequency meter) and the rotatable table maximum reading. Inction and Specified OdB lower than the limit values of the EUT would be odB margin would be seen specified and then reported the properties of the worst case. In axis positioning for which it is the worst case. In a sured was complete. Preamp Factor to the samplitude of spurious the than 20dB below the limit that, the field strength limits strength of any emission shall cified above by more than 20 ans whose peak level is lower

6.8.1 E.U.T. Operation:

Operating Environment:						
Temperature:	25.5 °C					
Humidity:	50.6 %					
Atmospheric Pressure:	1010 mbar					

4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been

displayed.



6.8.2 Test Data:

Note: All the mode have been tested, and only the worst case of mode are in the report

UNII-1_20M_5180MHz_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1196.264	64.89	-30.05	34.84	74.00	-39.16	peak	Р
2	3671.746	64.74	-29.03	35.71	74.00	-38.29	peak	P
3	4818.016	65.79	-27.88	37.91	74.00	-36.09	peak	Р
4	6432.733	66.24	-25.37	40.87	74.00	-33.13	peak	Р
5	9099.723	70.59	-24.09	46.50	74.00	-27.50	peak	Р
6 *	12433.621	71.22	-21.69	49.53	74.00	-24.47	peak	Р

UNII-1_20M_5180MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1203.199	64.72	-30.09	34.63	74.00	-39.37	peak	Р
2	3912.809	65.63	-29.01	36.62	74.00	-37.38	peak	Р
3	5377.354	65.45	-27.05	38.40	74.00	-35.60	peak	Р
4	7519.348	67.85	-24.80	43.05	74.00	-30.95	peak	Р
5	8891.725	69.99	-24.53	45.46	74.00	-28.54	peak	Р
6 *	13481.718	72.18	-20.98	51.20	74.00	-22.80	peak	Р

UNII-1_20M_5200MHz_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1162.182	64.67	-29.87	34.80	74.00	-39.20	peak	Р
2	2339.107	67.10	-30.55	36.55	74.00	-37.45	peak	P
3	3386.297	65.96	-29.16	36.80	74.00	-37.20	peak	Р
4	7390.070	67.87	-24.81	43.06	74.00	-30.94	peak	Р
5 *	10393.713	95.96	-24.46	71.50	74.00	-2.50	peak	Р
6	13097.624	71.69	-21.27	50.42	74.00	-23.58	peak	Р

UNII-1_20M_5200MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1260.149	64.72	-30.39	34.33	74.00	-39.67	peak	Р
2	2194.998	67.58	-30.71	36.87	74.00	-37.13	peak	Р
3	3671.746	64.36	-29.03	35.33	74.00	-38.67	peak	Р
4	8153.195	67.96	-25.47	42.49	74.00	-31.51	peak	Р
5 *	10393.713	90.67	-24.46	66.21	74.00	-7.79	peak	Р
6	12947.068	72.37	-21.37	51.00	74.00	-23.00	peak	Р



UNII-1	20M	5240MHz	Horizonta
01411			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1175.697	65.17	-29.93	35.24	74.00	-38.76	peak	Р
2	2325.624	66.38	-30.57	35.81	74.00	-38.19	peak	P
3	3308.894	66.22	-29.23	36.99	74.00	-37.01	peak	P
4	7056.092	67.11	-24.91	42.20	74.00	-31.80	peak	Р
5 *	10453.971	91.56	-24.49	67.07	74.00	-6.93	peak	Р
6	12433.621	71.41	-21.69	49.72	74.00	-24.28	peak	Р

UNII-1_20M_5240MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1224.247	64.62	-30.20	34.42	74.00	-39.58	peak	Р
2	2220.523	65.95	-30.68	35.27	74.00	-38.73	peak	P
3	3233.260	65.71	-29.29	36.42	74.00	-37.58	peak	Р
4	8343.918	68.61	-25.39	43.22	74.00	-30.78	peak	Р
5 *	10453.971	91.13	-24.49	66.64	74.00	-7.36	peak	Р
6	12361.953	67.78	-21.78	46.00	74.00	-28.00	peak	Р

UNII-3_20M_5745MHz_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1142.201	65.01	-29.75	35.26	74.00	-38.74	peak	Р
2	2233.396	66.86	-30.67	36.19	74.00	-37.81	peak	P
3	3308.894	65.86	-29.23	36.63	74.00	-37.37	peak	Р
4	8059.475	69.95	-25.51	44.44	74.00	-29.56	peak	Р
5 *	10514.577	91.84	-24.49	67.35	74.00	-6.65	peak	Р
6	12149.417	70.79	-22.02	48.77	74.00	-25.23	peak	Р

UNII-3 20M 5745MHz Vertical

			• • • • • • • • • • • • • • • • • • • •					
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1129.072	65.26	-29.69	35.57	74.00	-38.43	peak	P
2	2246.344	66.73	-30.65	36.08	74.00	-37.92	peak	P
3	3386.297	65.85	-29.16	36.69	74.00	-37.31	peak	P
4	7519.348	68.08	-24.80	43.28	74.00	-30.72	peak	Р
5 *	10514.577	94.77	-24.49	70.28	74.00	-3.72	peak	P
6	11871.710	71.52	-22.41	49.11	74.00	-24.89	peak	P



UNII-3	20M	5785MHz	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1297.103	63.31	-30.60	32.71	74.00	-41.29	peak	Р
2	2298.892	65.79	-30.59	35.20	74.00	-38.80	peak	Р
3	3405.929	72.36	-29.14	43.22	74.00	-30.78	peak	Р
4	6776.265	66.07	-25.13	40.94	74.00	-33.06	peak	P
5	8539.102	70.10	-25.24	44.86	74.00	-29.14	peak	Р
6 *	11533.485	90.27	-23.01	67.26	74.00	-6.74	peak	Р

UNII-3_20M_5785MHz_Vertical

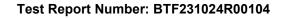
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1129.072	65.82	-29.69	36.13	74.00	-37.87	peak	Р
2	2285.641	66.13	-30.61	35.52	74.00	-38.48	peak	P
3	3526.134	64.92	-29.06	35.86	74.00	-38.14	peak	P
4	7739.857	67.33	-25.14	42.19	74.00	-31.81	peak	P
5	9475.497	70.19	-23.25	46.94	74.00	-27.06	peak	Р
6 *	11533.485	85.30	-23.01	62.29	74.00	-11.71	peak	Р

UNII-3 20M 5825MHz Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1148.823	65.96	-29.79	36.17	74.00	-37.83	peak	P
2	2272.466	66.88	-30.62	36.26	74.00	-37.74	peak	P
3	3505.809	66.53	-29.05	37.48	74.00	-36.52	peak	P
4	7432.914	64.60	-24.80	39.80	74.00	-34.20	peak	P
5	9420.880	63.63	-23.37	40.26	74.00	-33.74	peak	P
6 *	11600.350	93.49	-22.89	70.60	74.00	-3.40	peak	Р

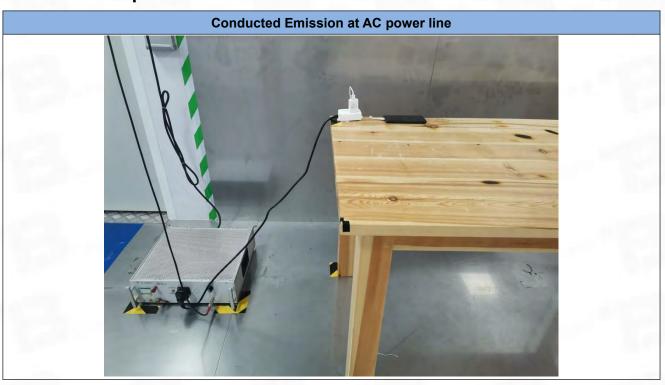
UNII-3_20M_5825MHz_Vertical

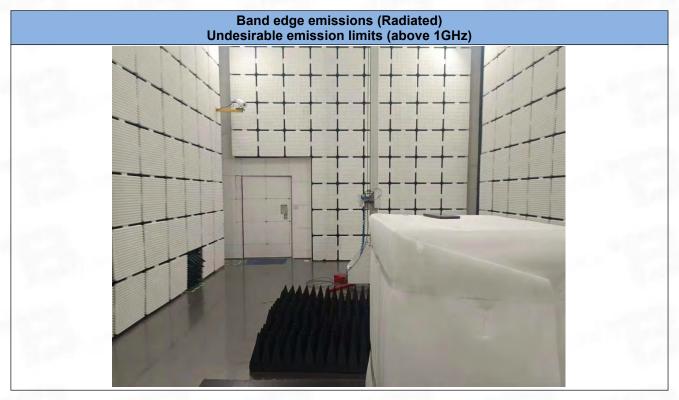
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1245.663	64.93	-30.32	34.61	74.00	-39.39	peak	Р
2	2352.668	66.90	-30.54	36.36	74.00	-37.64	peak	Р
3	4074.389	65.87	-28.96	36.91	74.00	-37.09	peak	Р
4	7476.006	68.21	-24.79	43.42	74.00	-30.58	peak	Р
5	9475.497	71.42	-23.25	48.17	74.00	-25.83	peak	Р
6 *	11600.350	88.11	-22.89	65.22	74.00	-8.78	peak	Р

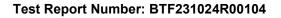




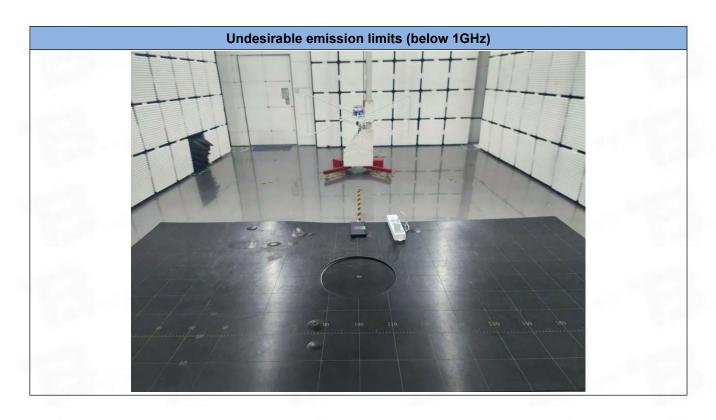
Test Setup Photos

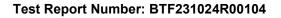








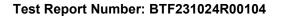






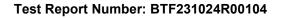
8 EUT Constructional Details (EUT Photos)

Please refer to the report No.BTF231024R00101





Appendix





1. Duty Cycle

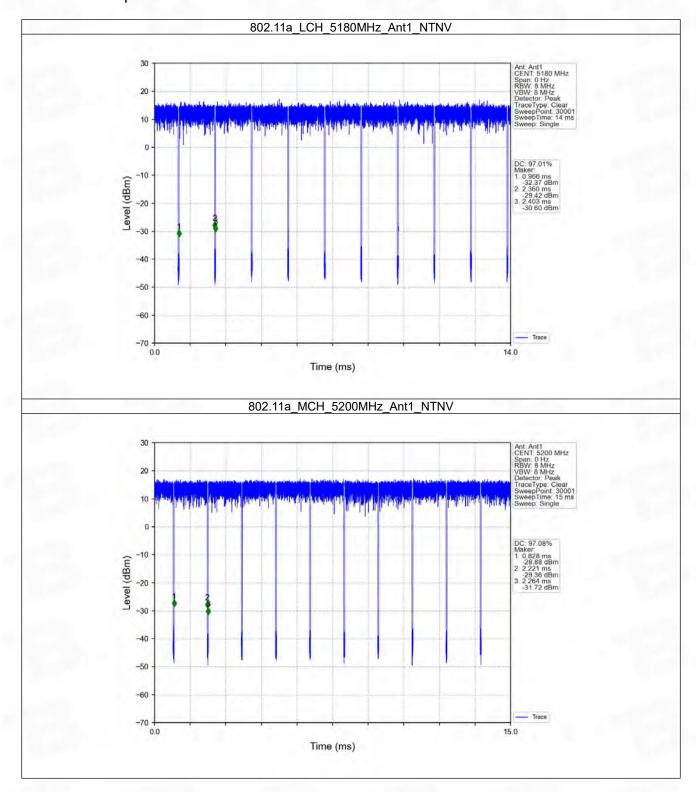
1.1 Ant1

1.1.1 Test Result

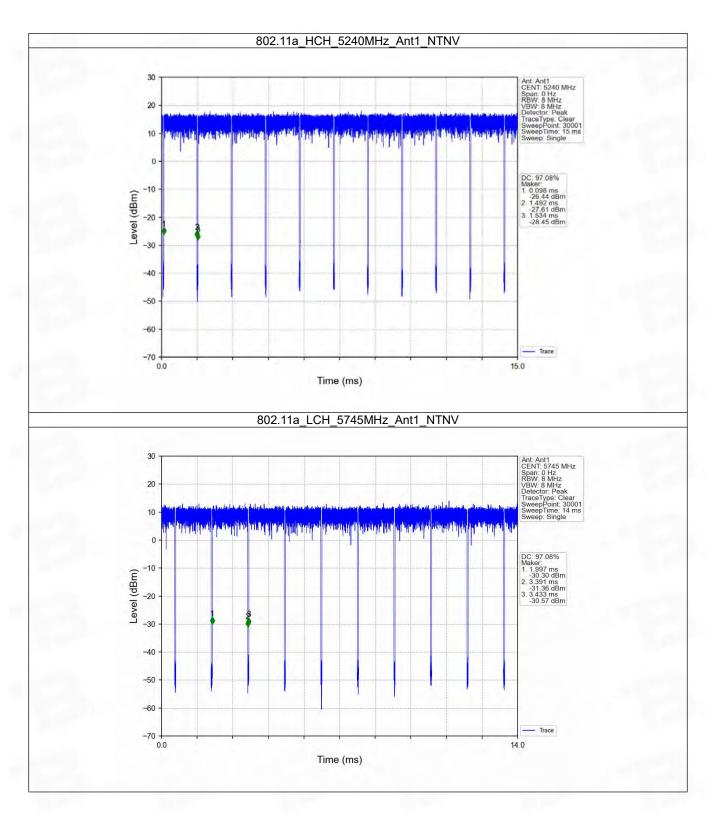
					Ant1		
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
	SISO	5180	1.394	1.437	97.01	0.13	0.00
		5200	1.394	1.436	97.08	0.13	0.03
		5240	1.394	1.436	97.08	0.13	0.00
802.11a		5745	1.394	1.436	97.08	0.13	0.03
		5785	1.393	1.437	96.94	0.14	0.03
		5825	1.392	1.437	96.87	0.14	0.03
	SISO	5180	1.302	1.345	96.80	0.14	0.03
		5200	1.302	1.345	96.80	0.14	0.07
802.11n		5240	1.302	1.345	96.80	0.14	0.03
(HT20)		5745	1.300	1.344	96.73	0.14	0.04
		5785	1.301	1.345	96.73	0.14	0.10
		5825	1.301	1.345	96.73	0.14	0.07
	SISO	5190	0.649	0.692	93.79	0.28	0.07
802.11n		5230	0.648	0.692	93.64	0.29	0.09
(HT40)		5755	0.649	0.693	93.65	0.28	0.07
		5795	0.649	0.692	93.79	0.28	0.03
	SISO	5180	1.300	1.344	96.73	0.14	0.10
		5200	1.301	1.344	96.80	0.14	0.07
802.11ac		5240	1.301	1.345	96.73	0.14	0.10
(VHT20)		5745	1.300	1.345	96.65	0.15	0.03
		5785	1.300	1.344	96.73	0.14	0.03
		5825	1.300	1.344	96.73	0.14	0.07
802.11ac (VHT40)	SISO	5190	0.648	0.692	93.64	0.29	0.04
		5230	0.648	0.692	93.64	0.29	0.07
		5755	0.649	0.692	93.79	0.28	0.00
		5795	0.648	0.692	93.64	0.29	0.03
802.11ac	SISO	5210	1.060	1.088	97.43	0.11	0.03
(VHT80)	3130	5775	1.060	1.088	97.43	0.11	0.03



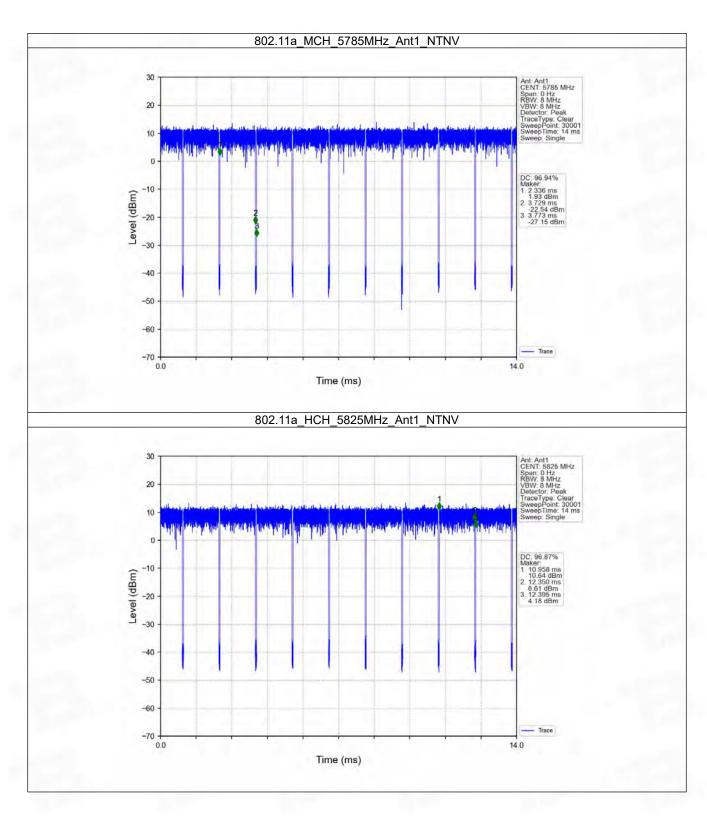
1.1.2 Test Graph



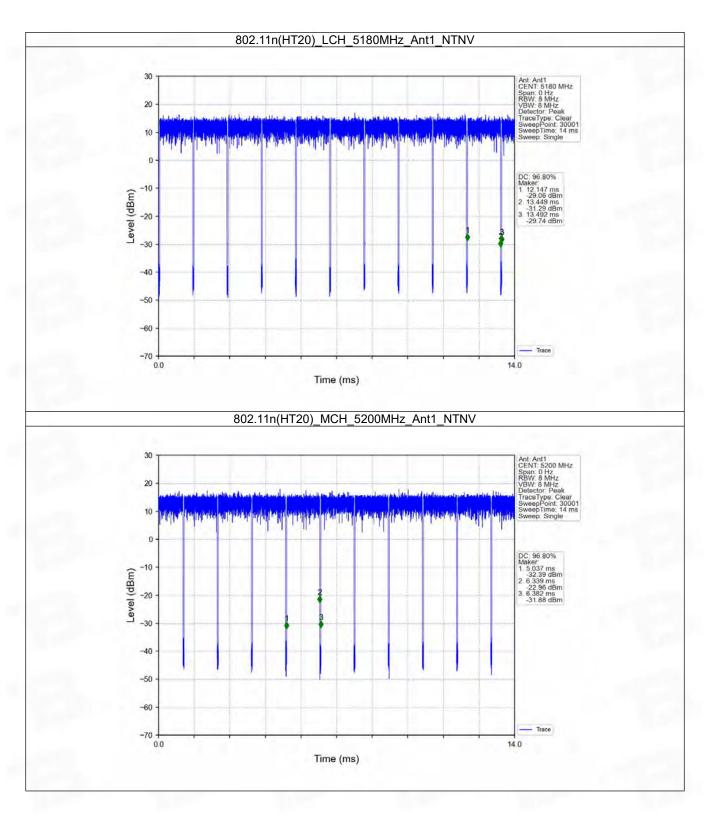




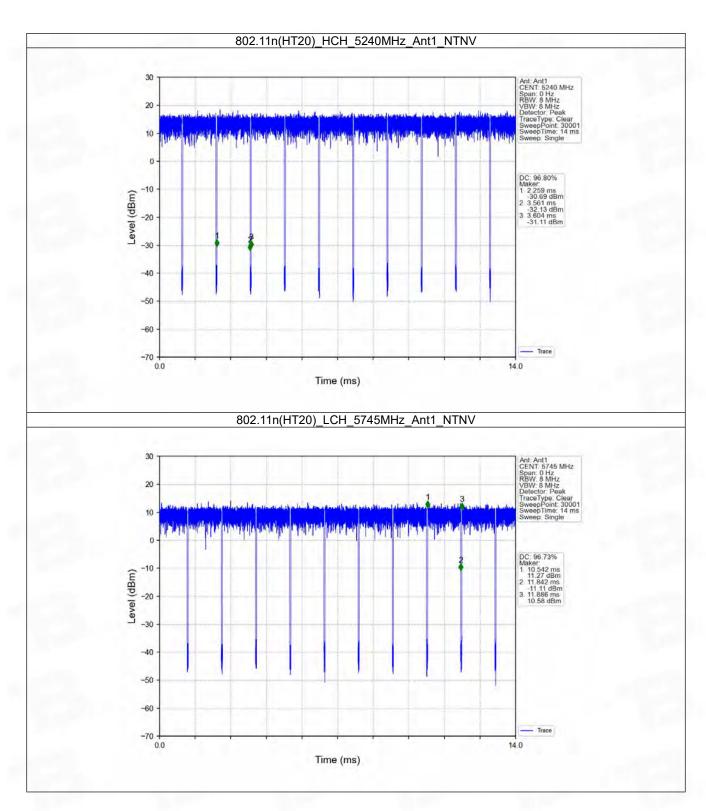




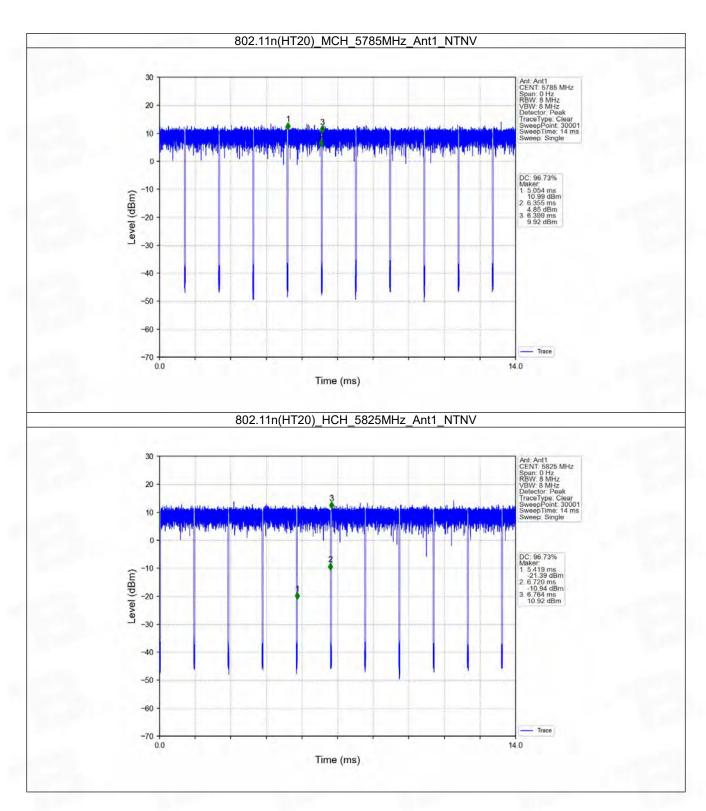




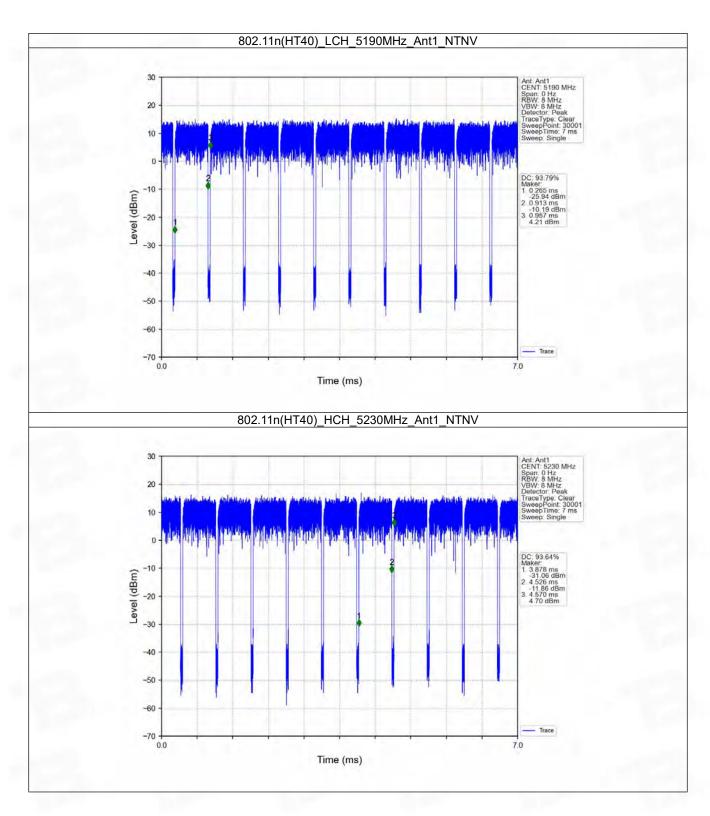




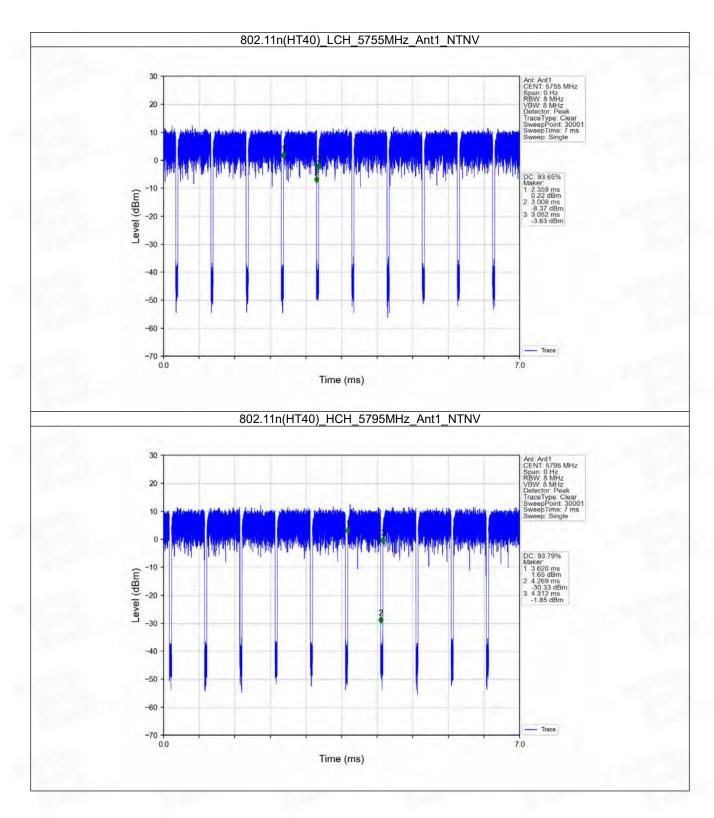




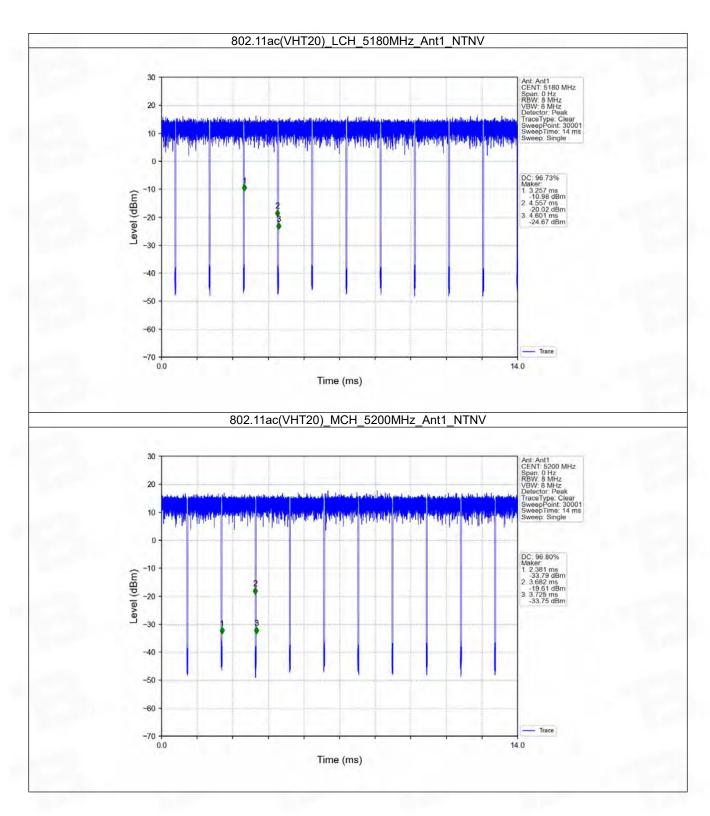




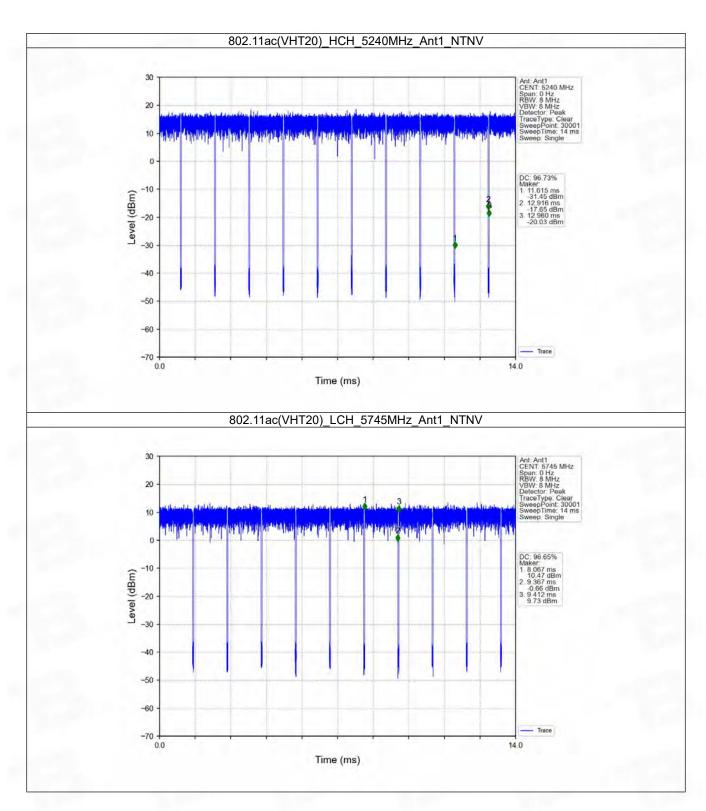




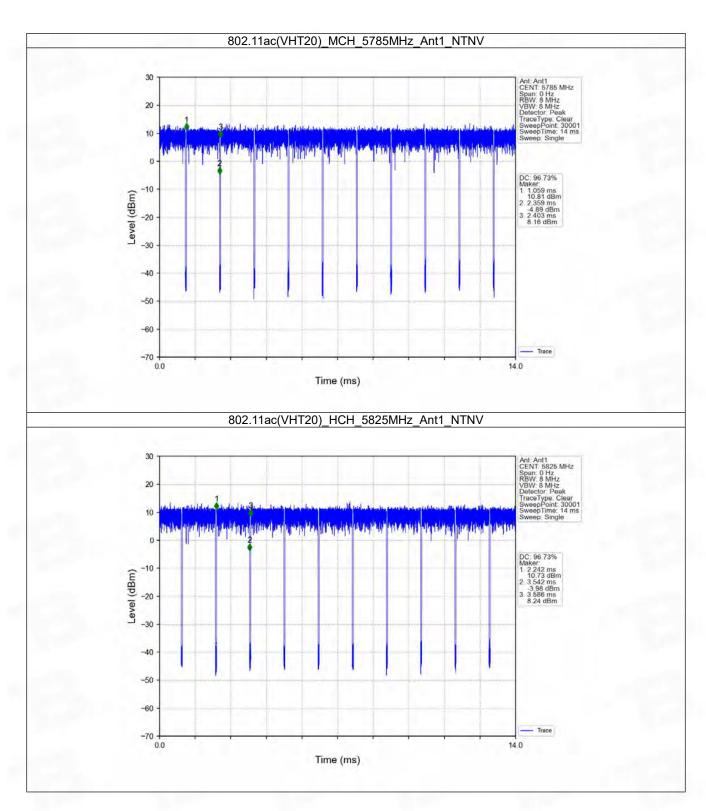




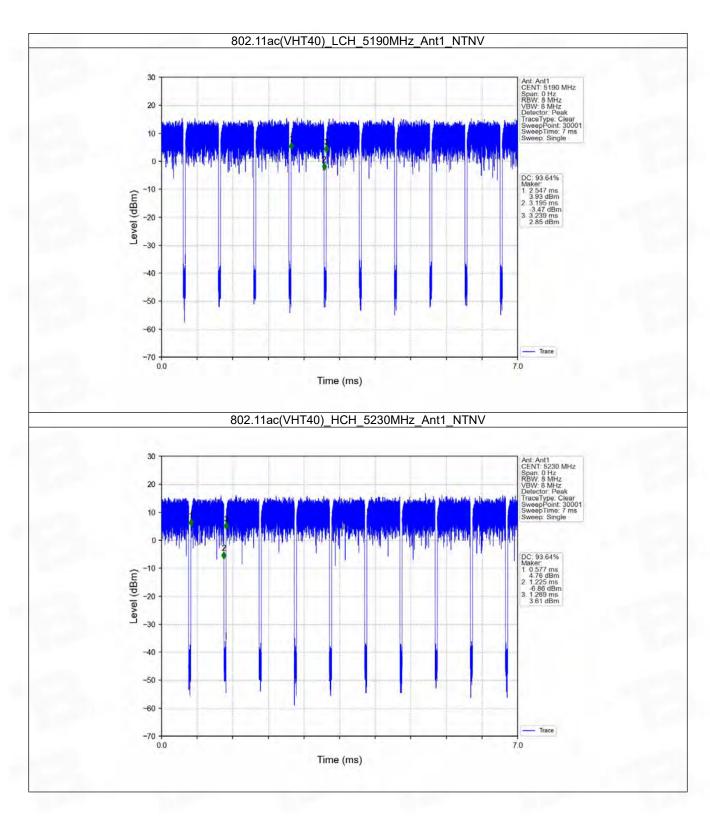




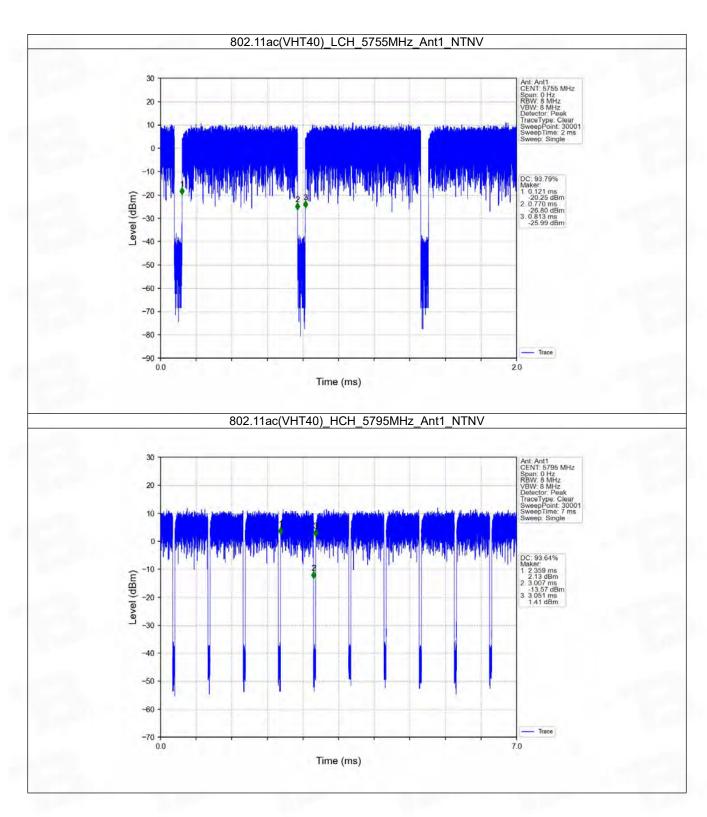




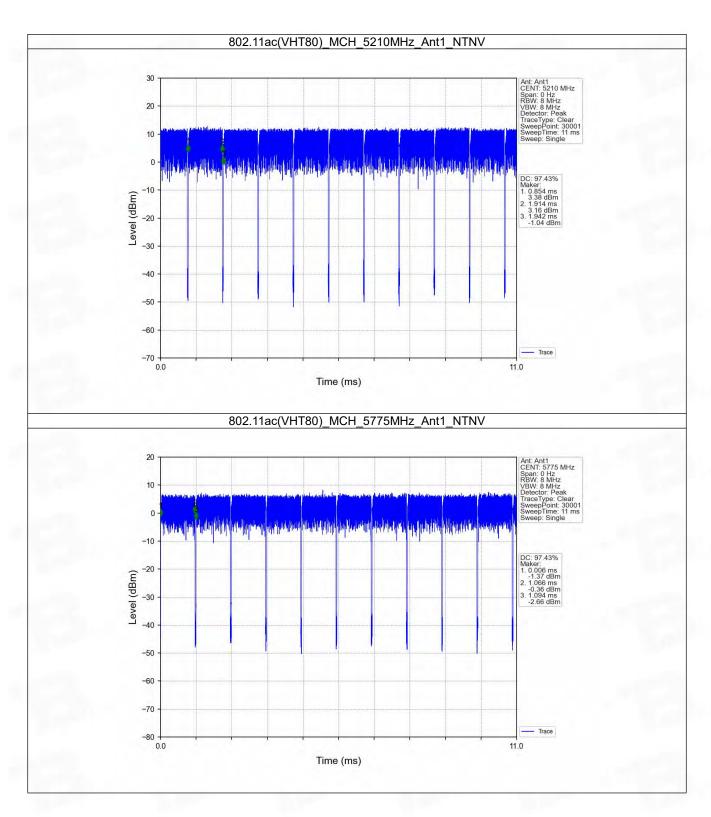


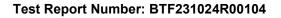














2. Bandwidth

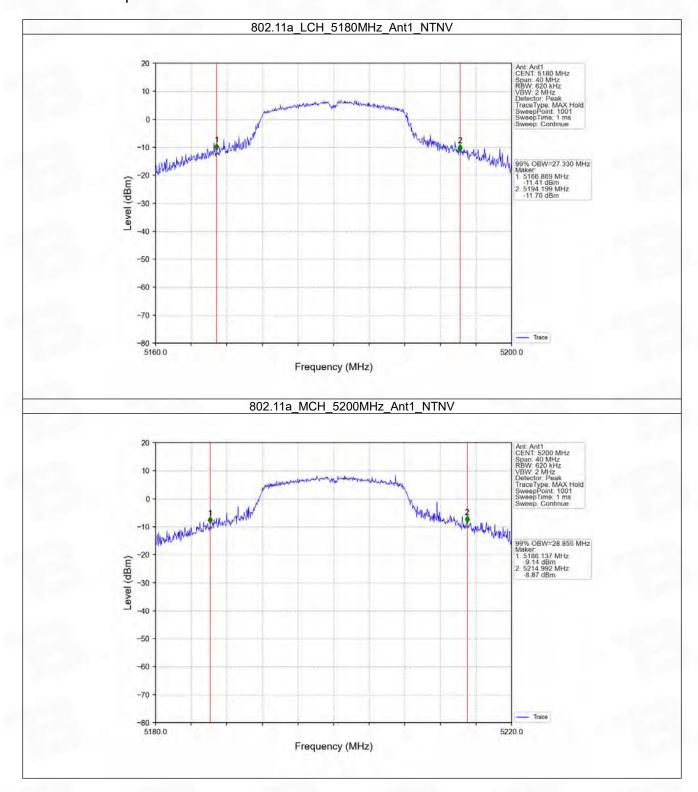
2.1 OBW

2.1.1 Test Result

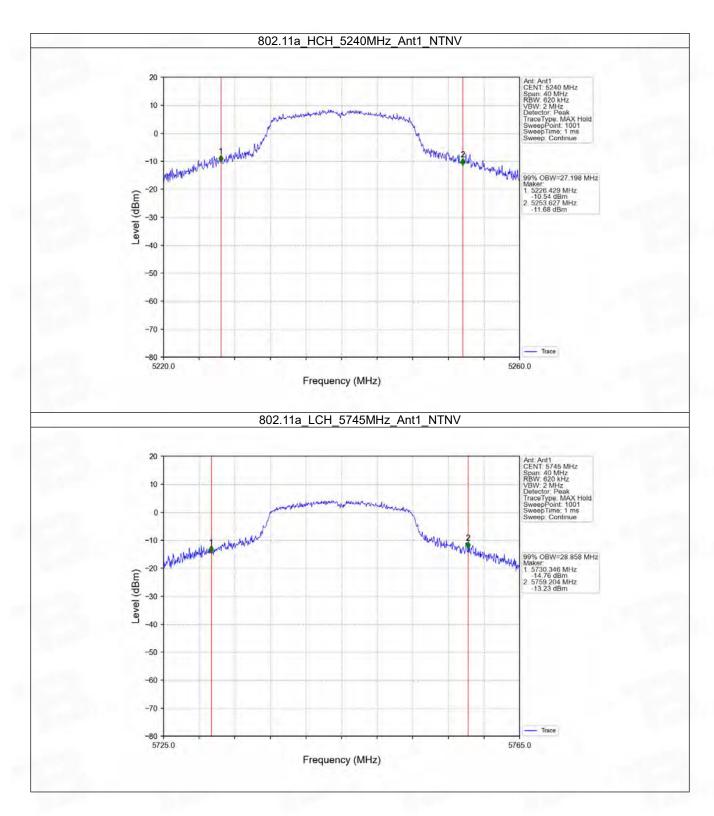
Mode	TX	Frequency (MHz)	ANT	99% Occupied B	\/a wal: - 4	
	Type			Result	Limit	Verdict
	SISO	5180	1	27.330	1	Pass
		5200	1	28.855	1	Pass
000 44-		5240	1	27.198	1	Pass
802.11a		5745	1	28.858	1	Pass
		5785	1	28.526	1	Pass
		5825	1	28.978	1	Pass
	SISO	5180	1	28.755	1	Pass
		5200	1	28.933	1	Pass
802.11n		5240	1	27.814	1	Pass
(HT20)		5745	1	29.379	1	Pass
		5785	1	29.111	1	Pass
		5825	1	29.701	1	Pass
	SISO	5190	1	54.141	1	Pass
802.11n		5230	1	53.564	1	Pass
(HT40)		5755	1	59.662	1	Pass
		5795	1	58.572	1	Pass
	SISO	5180	1	28.211	1	Pass
		5200	1	28.813	1	Pass
802.11ac		5240	1	28.825	1	Pass
(VHT20)		5745	1	29.032	1	Pass
		5785	1	28.927	1	Pass
		5825	1	30.171	1	Pass
	SISO	5190	1	54.606	1	Pass
802.11ac		5230	1	51.199	1	Pass
(VHT40)		5755	1	59.331	1	Pass
		5795	1	58.691	1	Pass
802.11ac	SISO	5210	1	113.649	1	Pass
(VHT80)	3130	5775	1	132.437	1	Pass



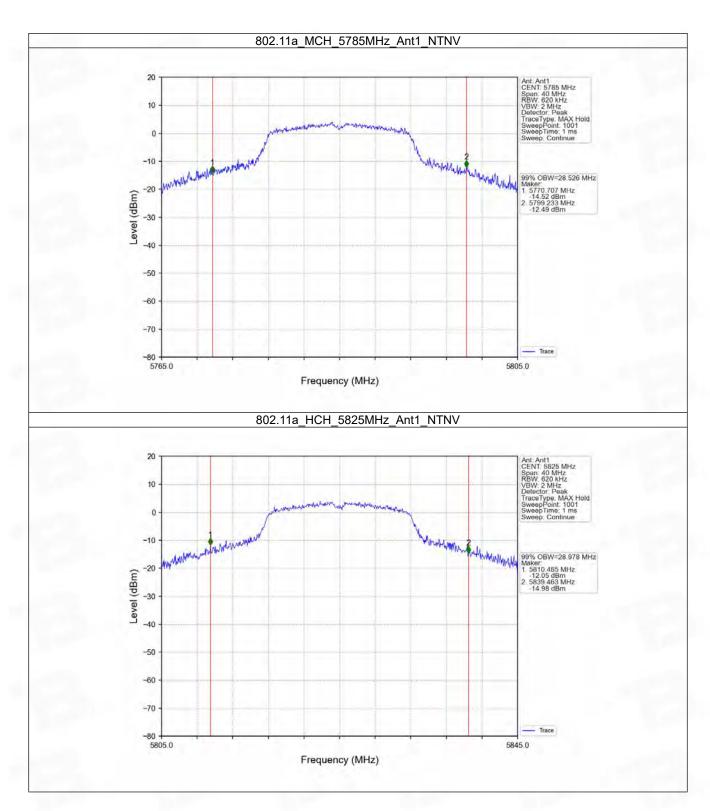
2.1.2 Test Graph



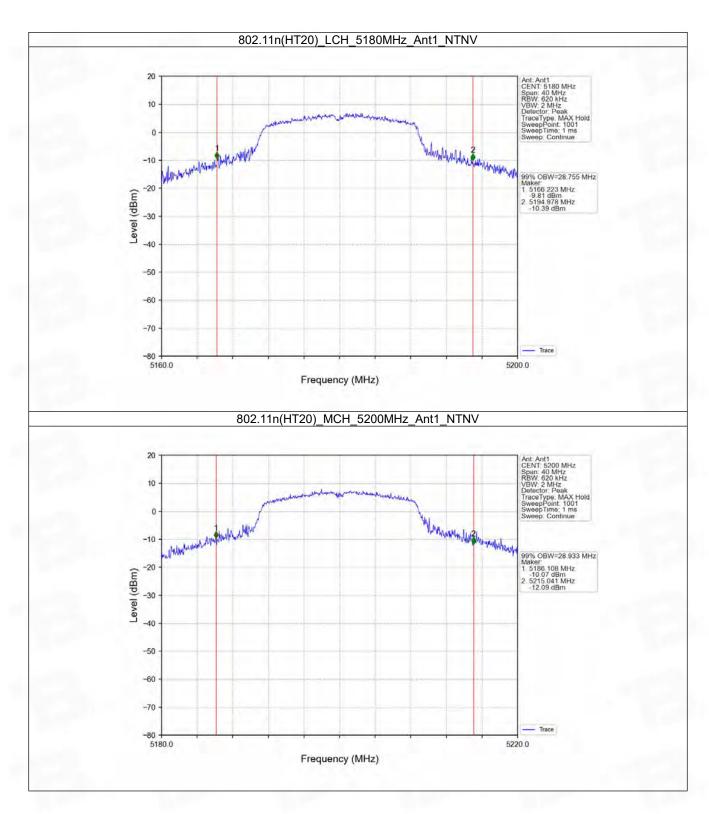




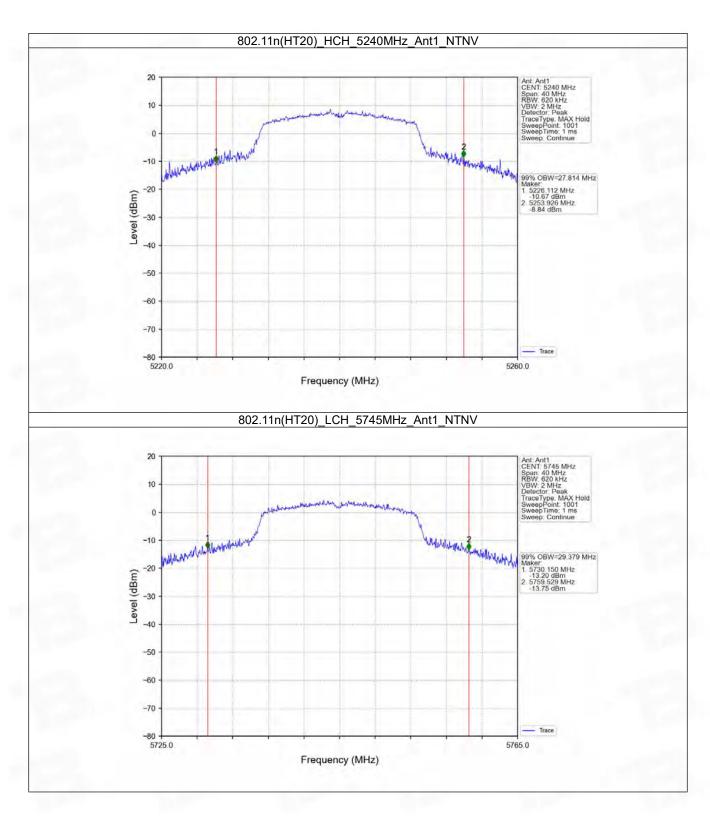




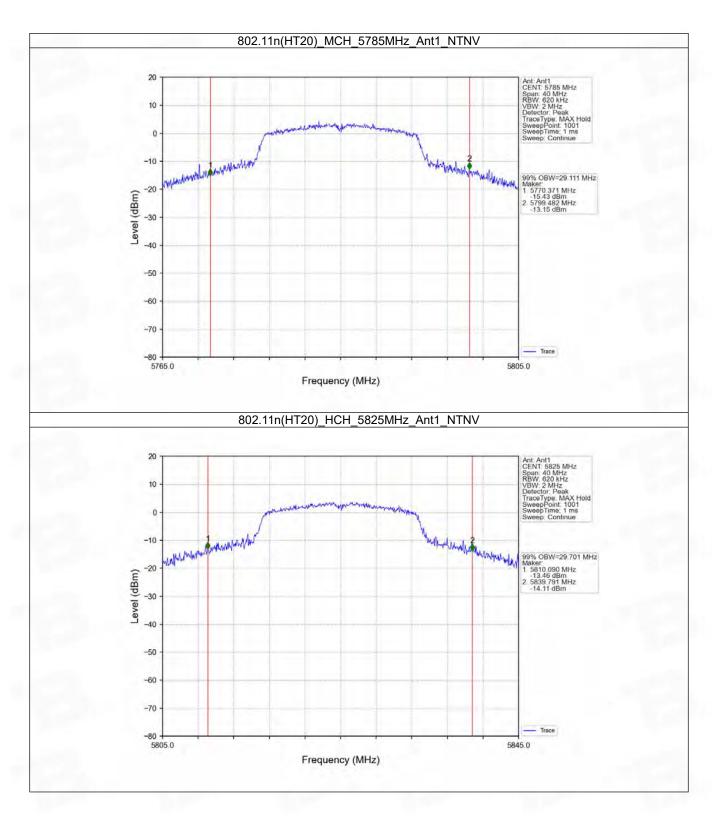




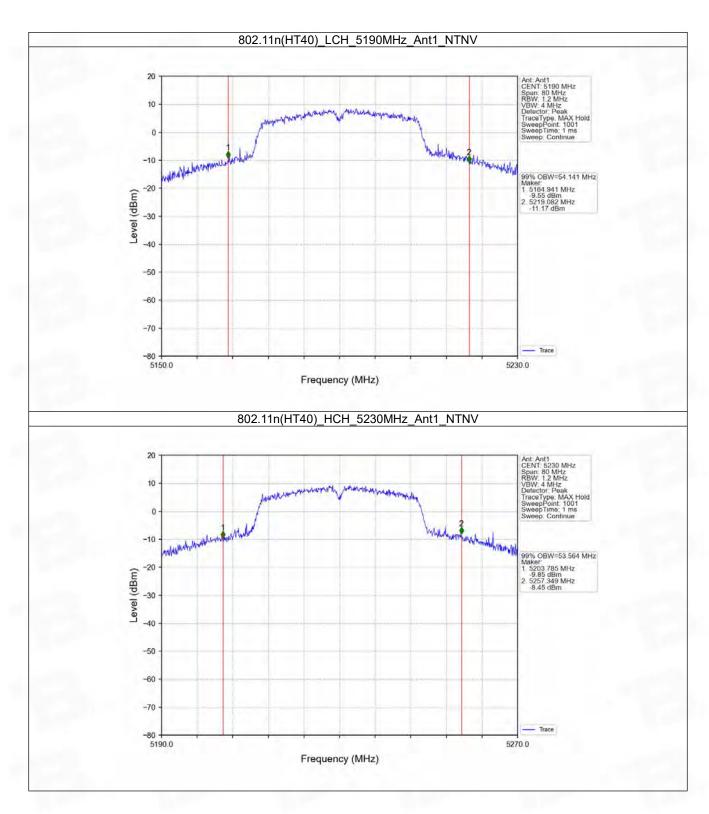




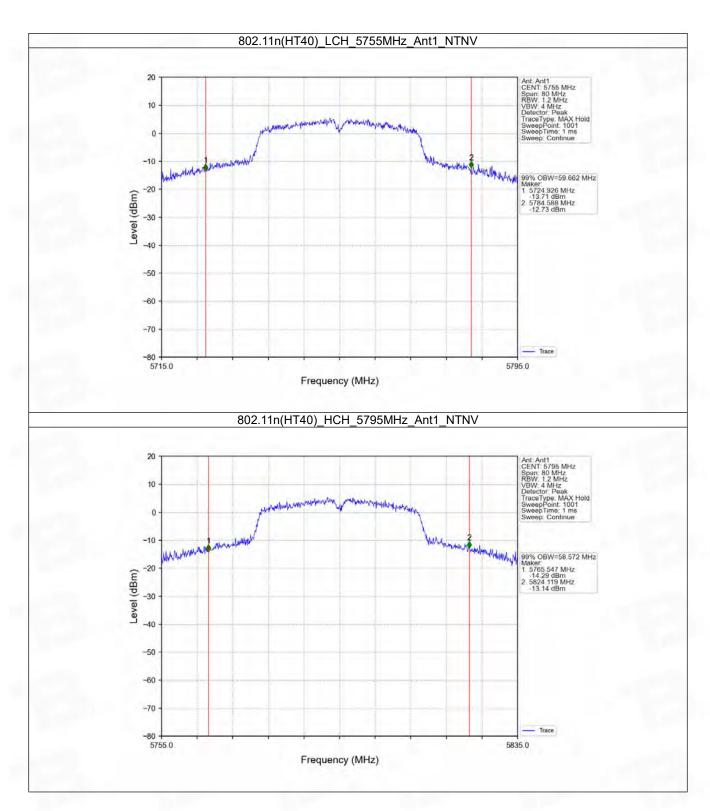




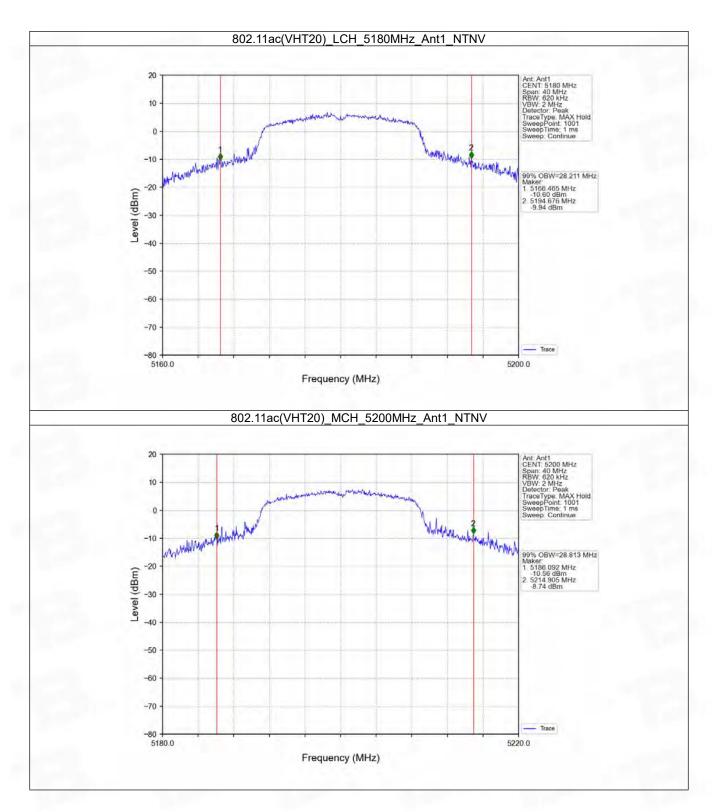




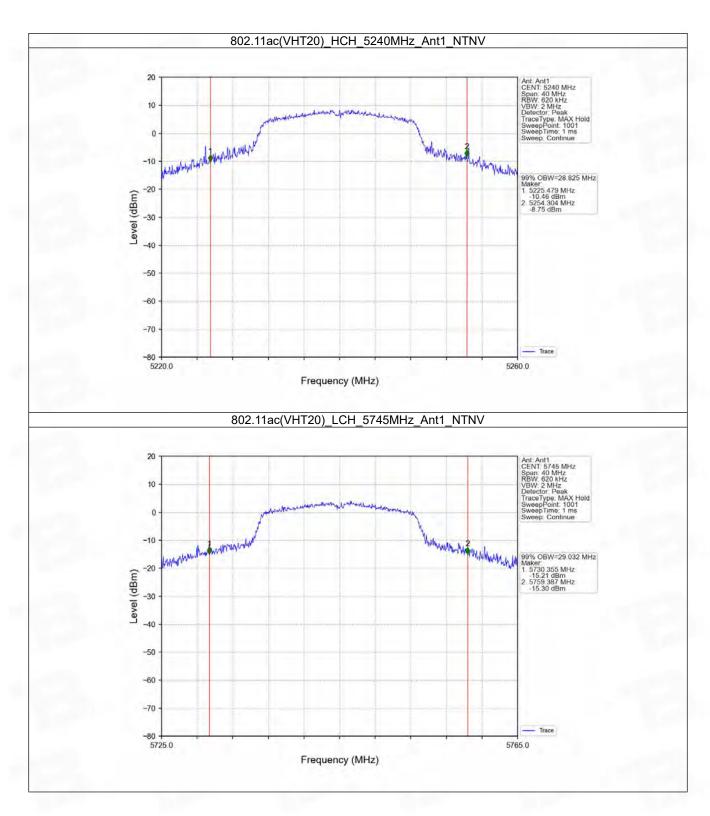




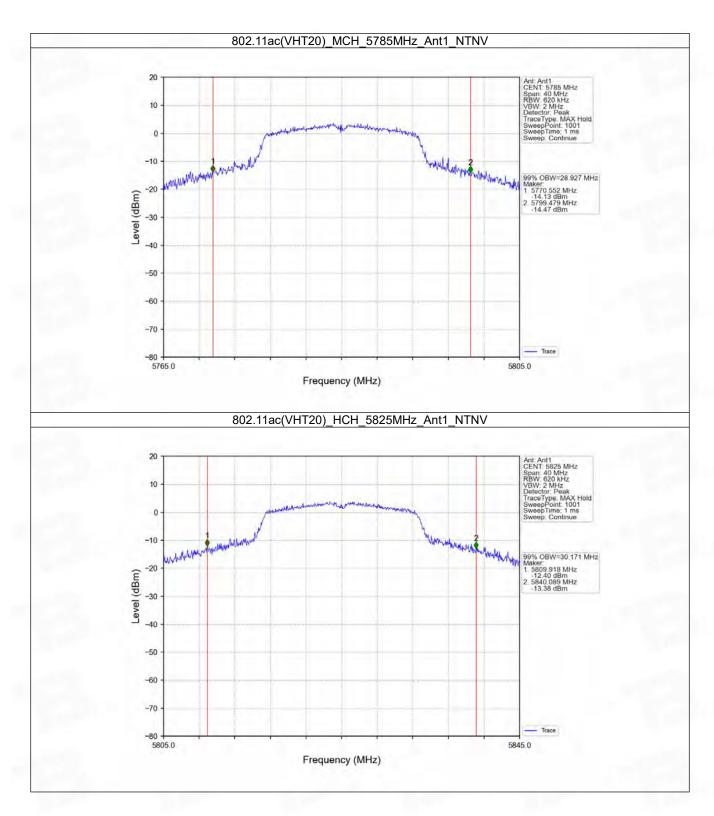




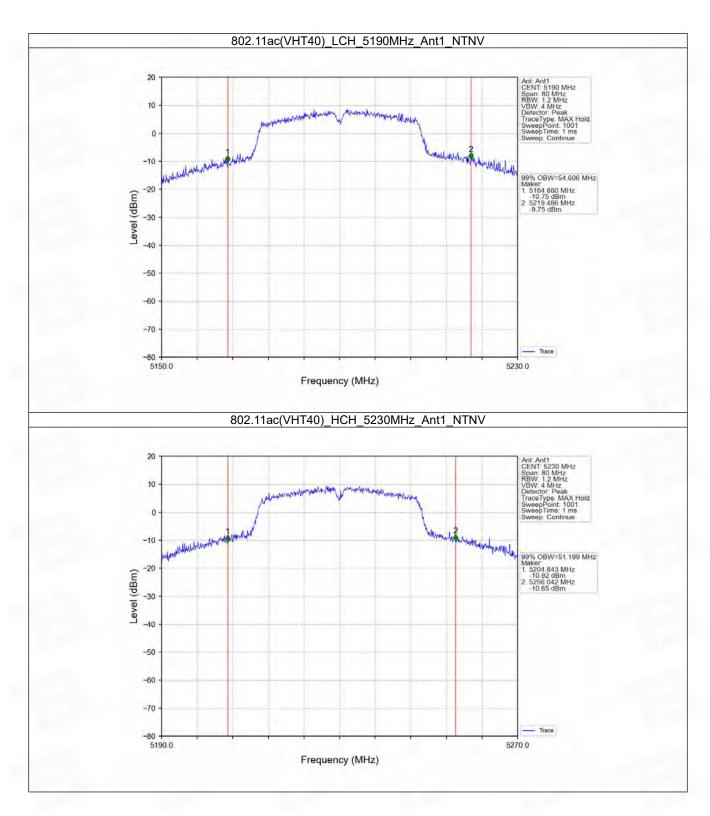




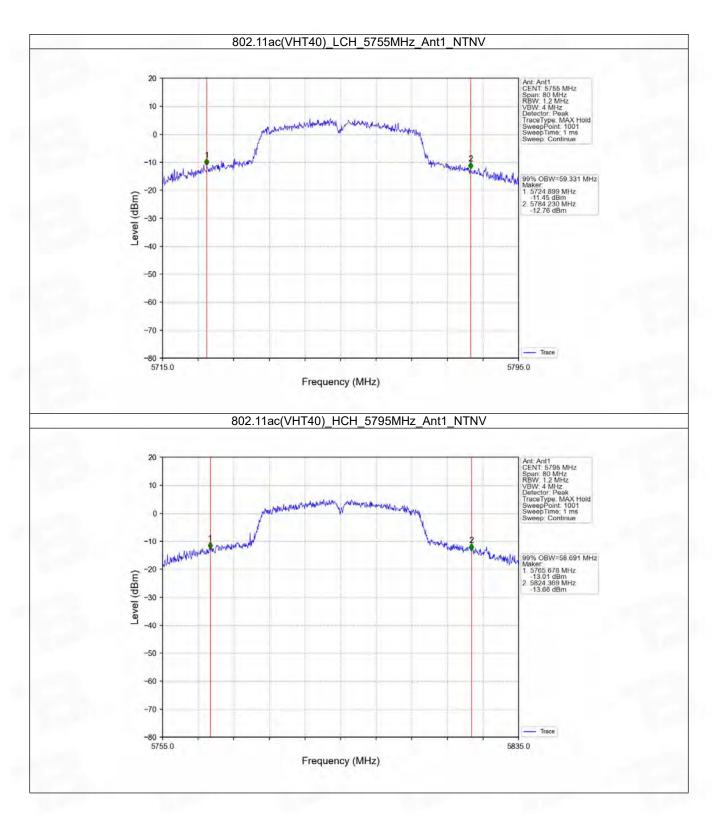




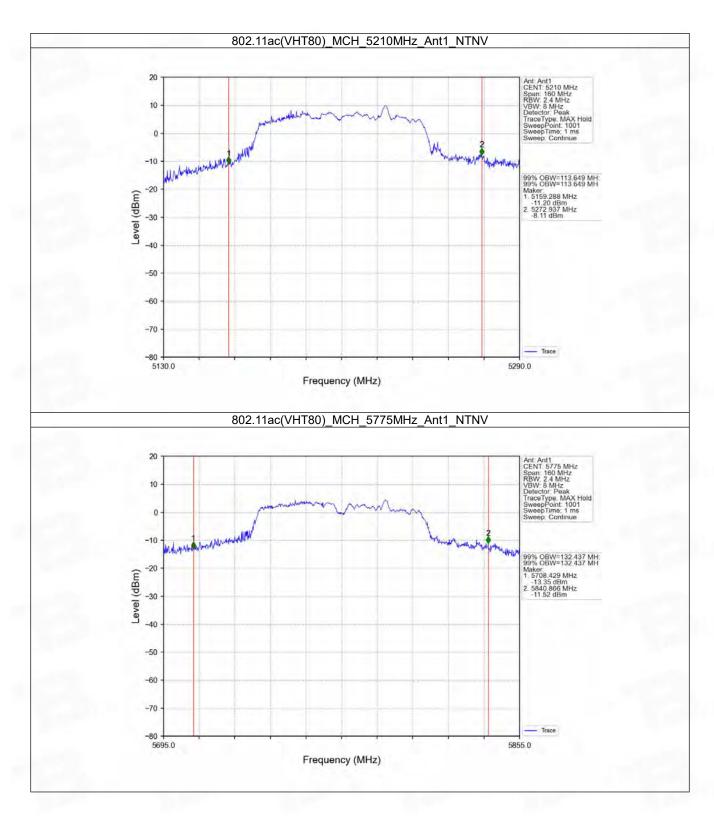


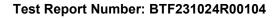














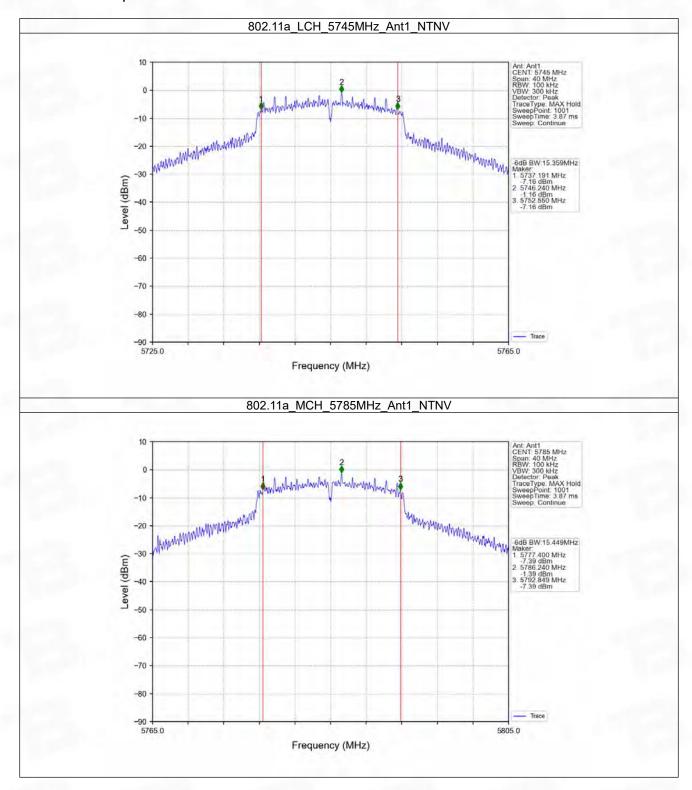
2.2 6dB BW

2.2.1 Test Result

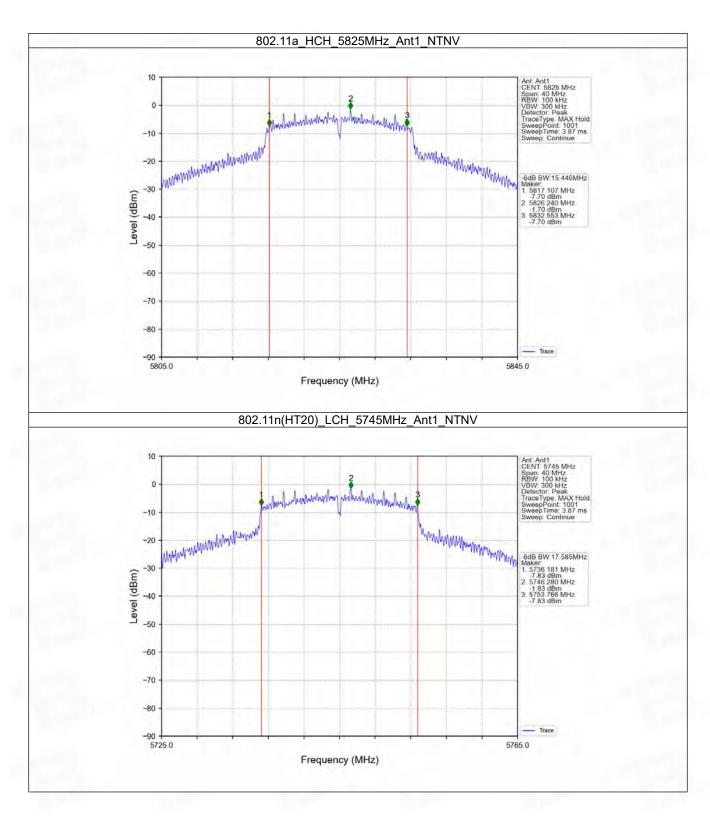
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		\/a naliat
				Result	Limit	Verdict
802.11a	SISO	5745	1	15.359	>=0.5	Pass
		5785	1	15.449	>=0.5	Pass
		5825	1	15.446	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.585	>=0.5	Pass
		5785	1	16.935	>=0.5	Pass
		5825	1	16.955	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	33.414	>=0.5	Pass
		5795	1	32.605	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.694	>=0.5	Pass
		5785	1	15.152	>=0.5	Pass
		5825	1	17.334	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	31.383	>=0.5	Pass
		5795	1	33.845	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	72.572	>=0.5	Pass



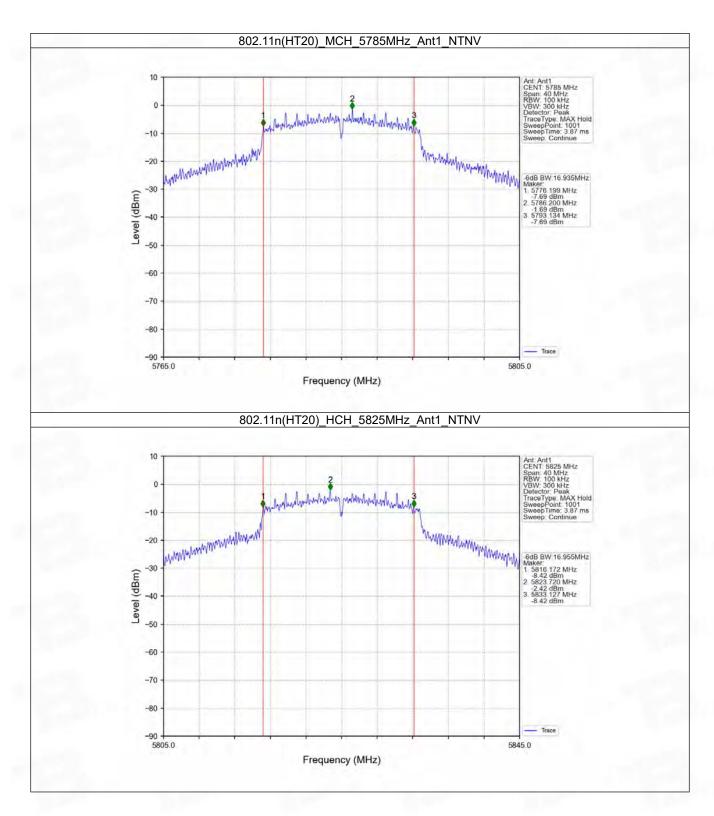
2.2.2 Test Graph



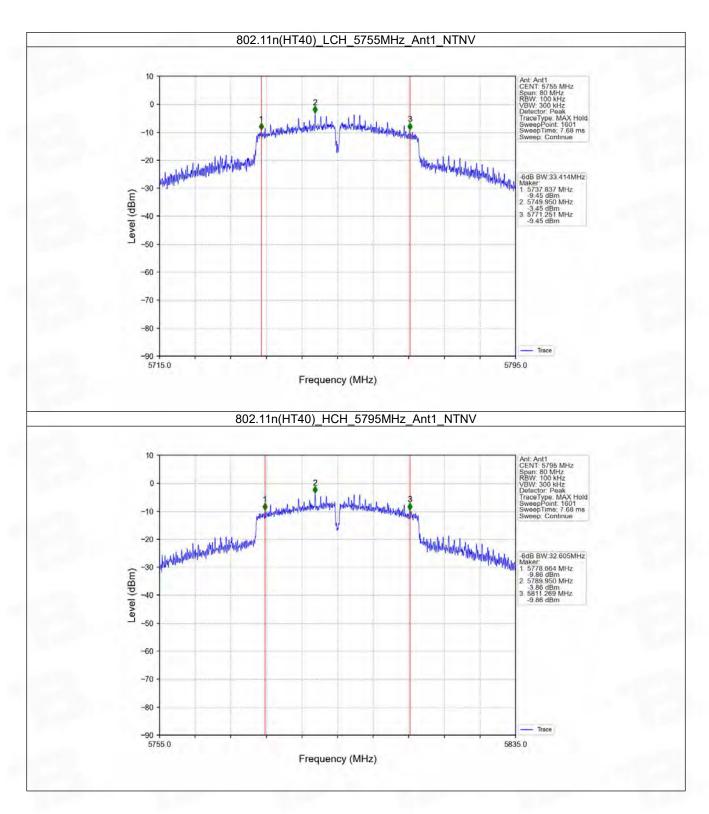




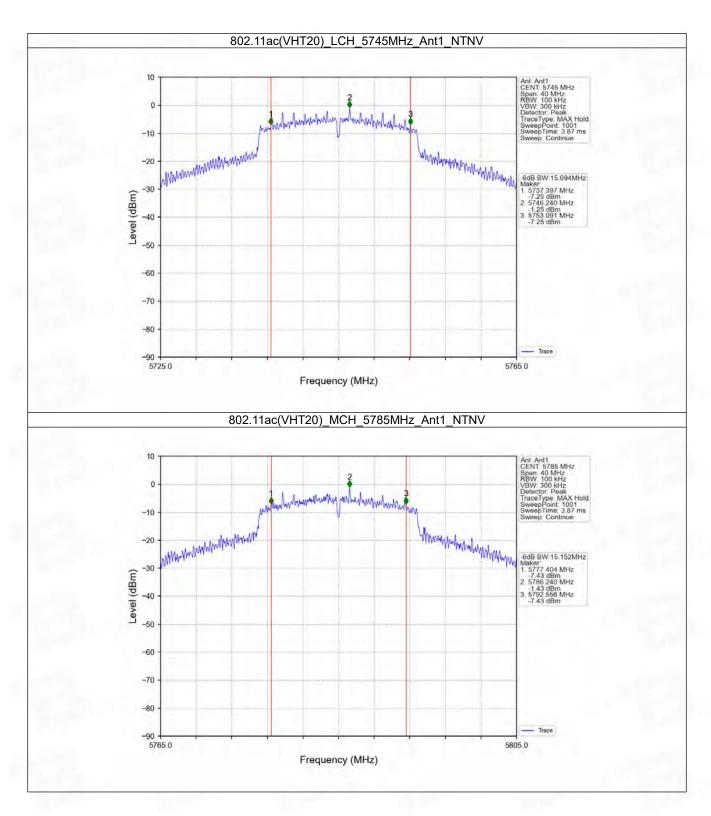




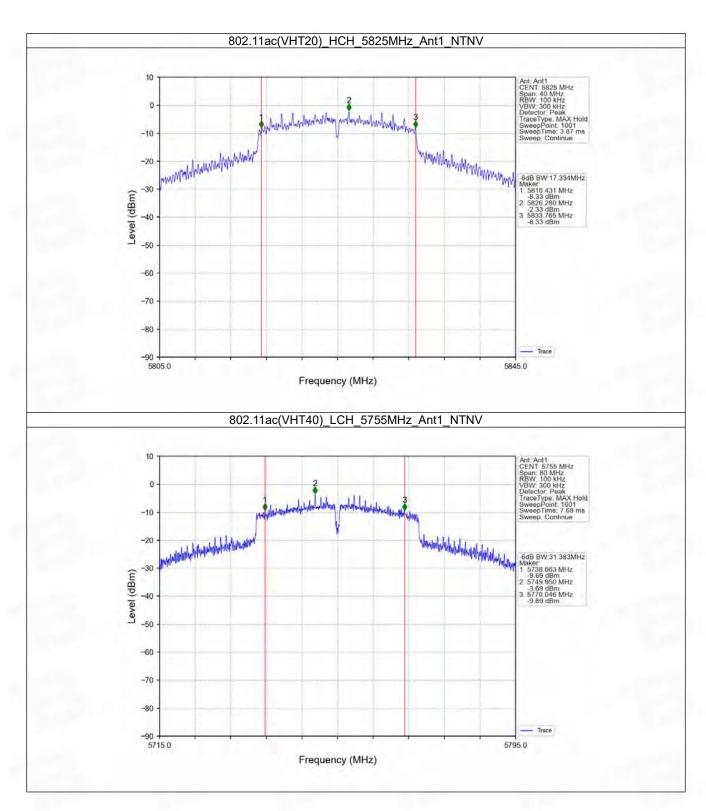




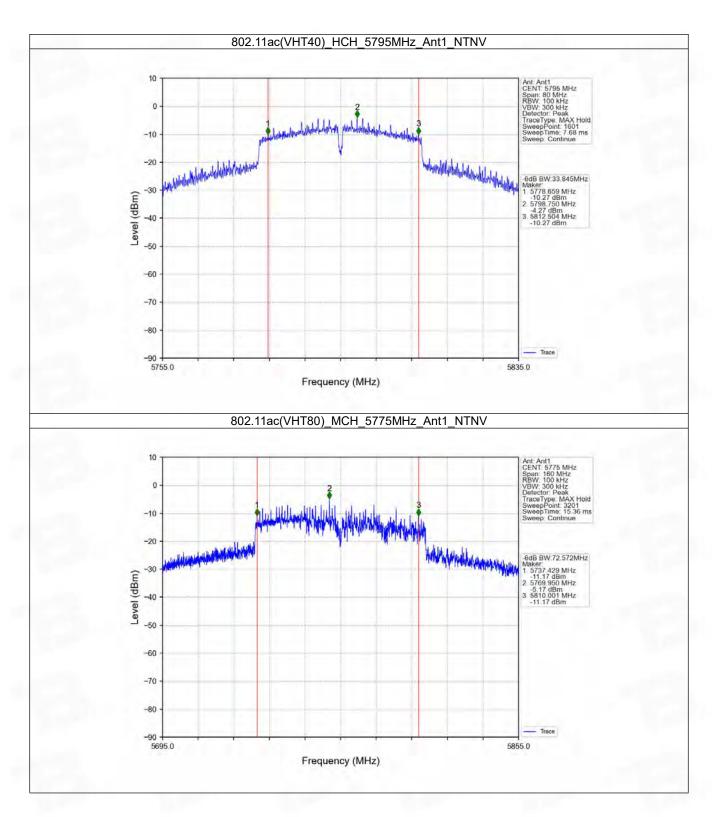


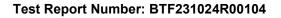














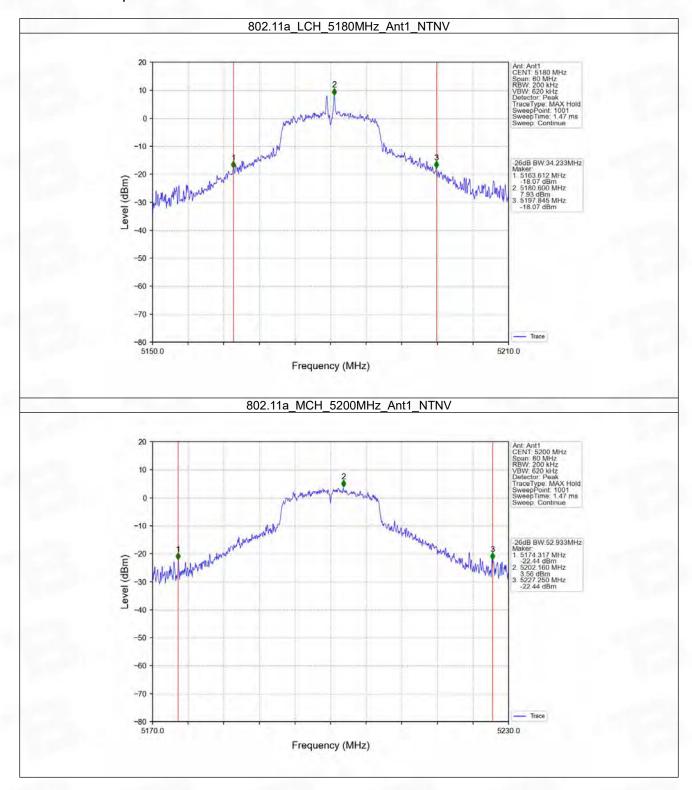
2.3 26dB BW

2.3.1 Test Result

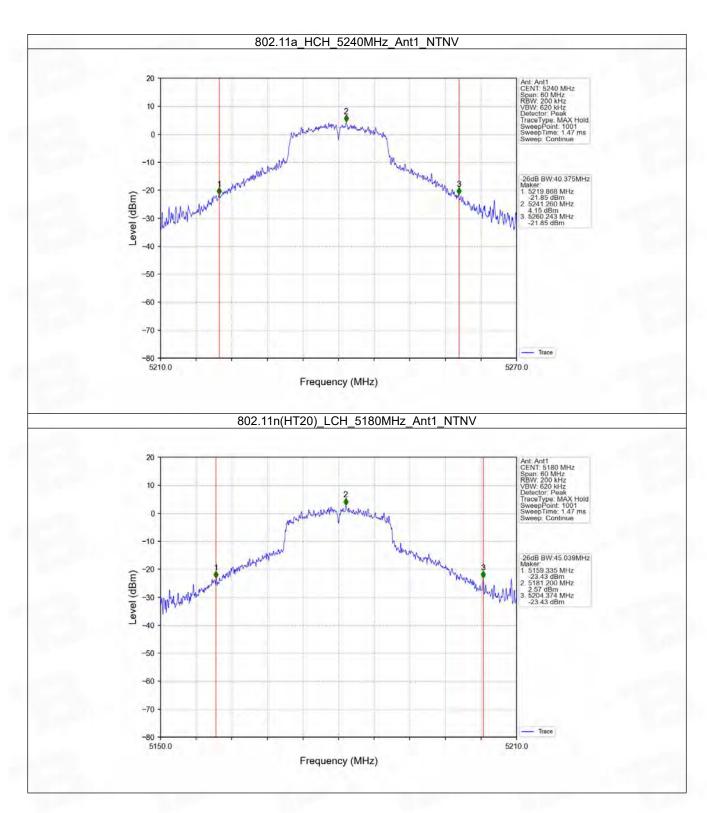
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Vandiat
				Result	Limit	Verdict
802.11a	SISO	5180	1	34.233	1	Pass
		5200	1	52.933	1	Pass
		5240	1	40.375	/	Pass
802.11n (HT20)	SISO	5180	1	45.039	1	Pass
		5200	1	46.336	/	Pass
		5240	1	42.197	/	Pass
802.11n (HT40)	SISO	5190	1	86.900	1	Pass
		5230	1	84.158	/	Pass
802.11ac (VHT20)	SISO	5180	1	45.939	/	Pass
		5200	1	49.864	1	Pass
		5240	1	43.096	/	Pass
802.11ac (VHT40)	SISO	5190	1	87.834	1	Pass
		5230	1	85.668	1	Pass
802.11ac (VHT80)	SISO	5210	1	186.077	1	Pass



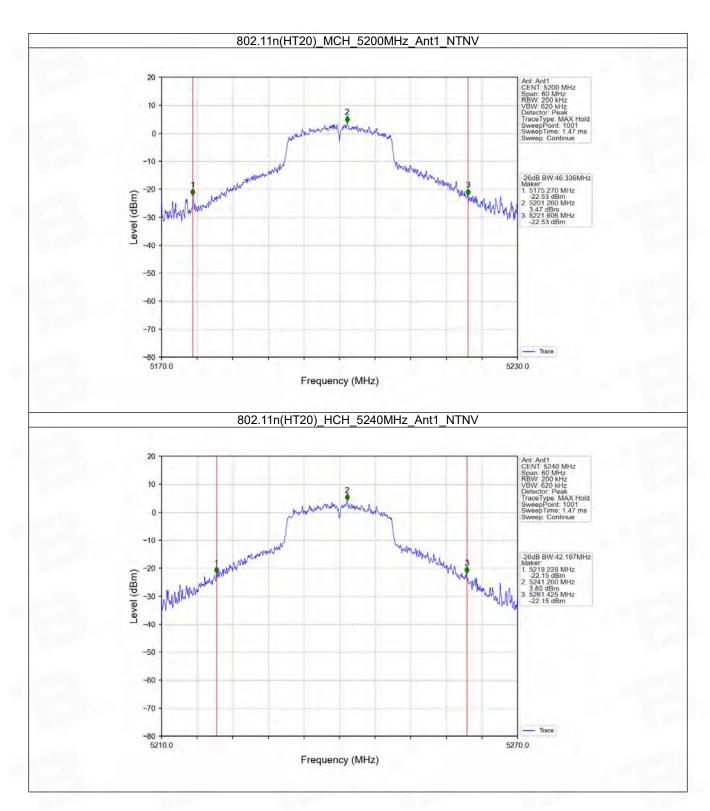
2.3.2 Test Graph



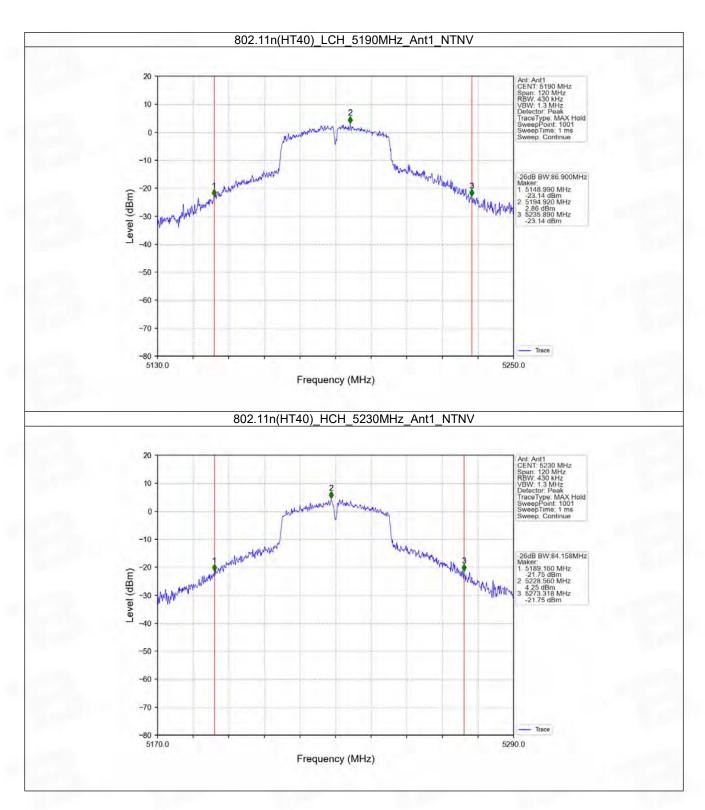




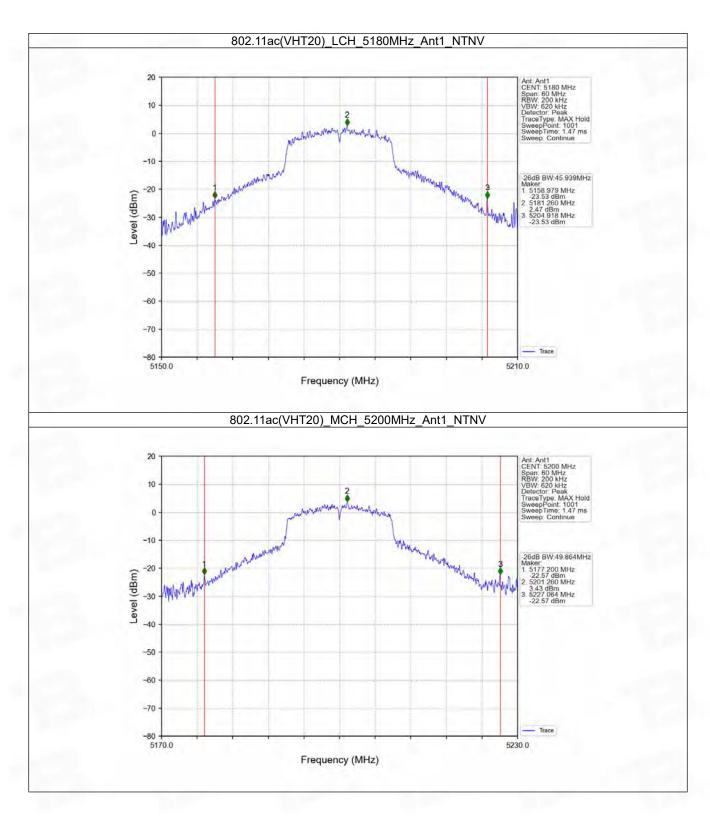




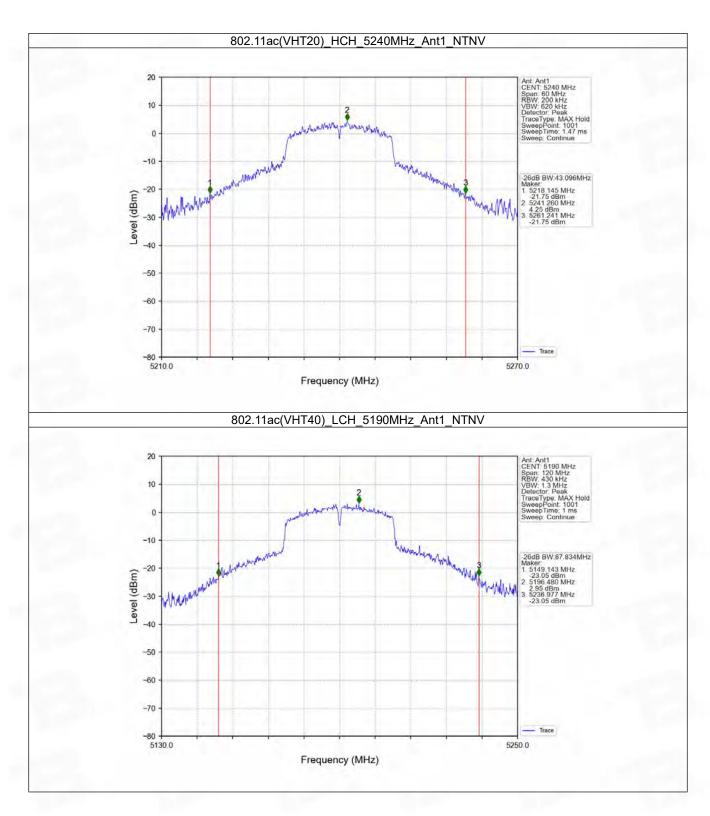




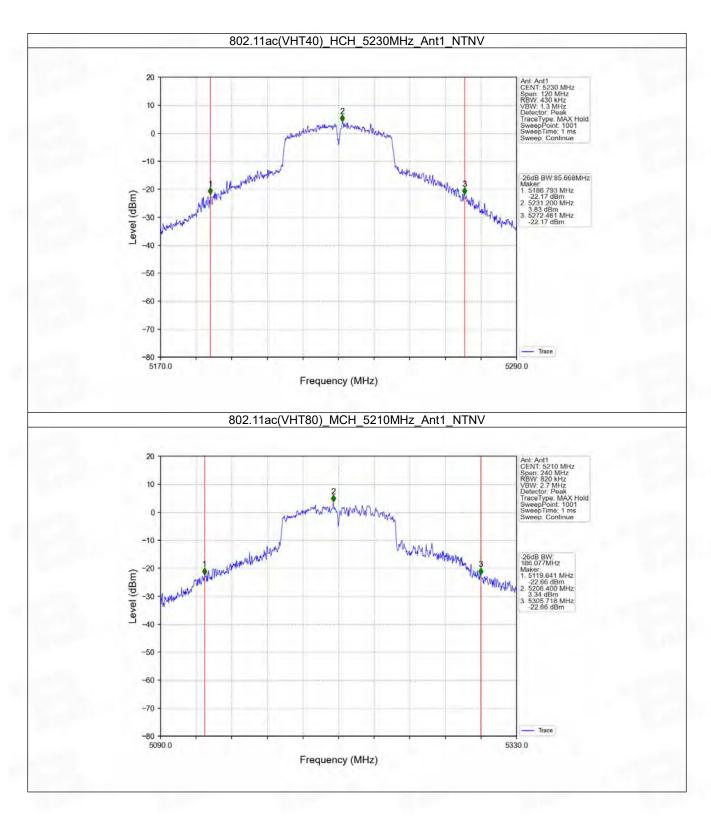


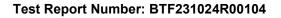














3. Maximum Conducted Output Power

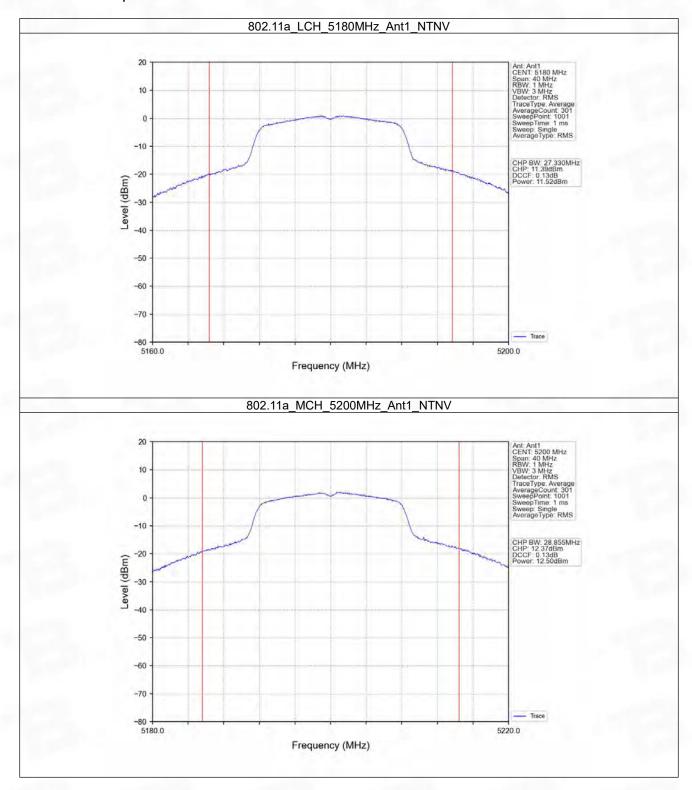
3.1 Power

3.1.1 Test Result

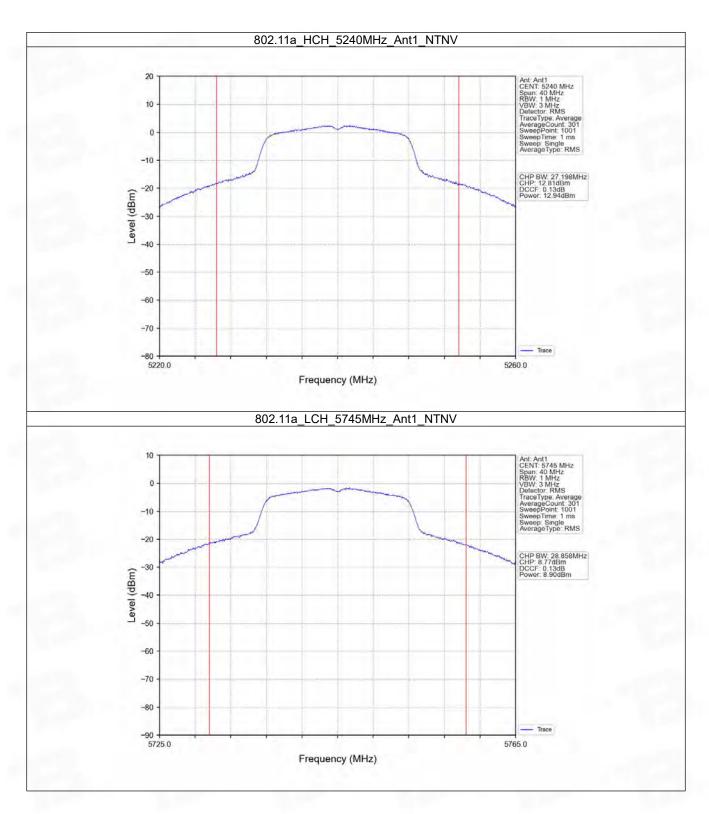
Mode	TX	Frequency	Maximum Average Cond	\/ord:-+		
Mode	Туре	(MHz)	ANT1	Limit	Verdict	
802.11a	SISO	5180	11.52	<=23.98	Pass	
		5200	12.50	<=23.98	Pass	
		5240	12.94	<=23.98	Pass	
		5745	8.90	<=30	Pass	
		5785	8.50	<=30	Pass	
		5825	8.34	<=30	Pass	
802.11n (HT20)	SISO	5180	11.42	<=23.98	Pass	
		5200	12.09	<=23.98	Pass	
		5240	12.69	<=23.98	Pass	
		5745	8.81	<=30	Pass	
		5785	8.54	<=30	Pass	
		5825	8.47	<=30	Pass	
	SISO	5190	11.74	<=23.98	Pass	
802.11n (HT40)		5230	12.86	<=23.98	Pass	
		5755	9.01	<=30	Pass	
		5795	8.82	<=30	Pass	
	SISO	5180	11.22	<=23.98	Pass	
		5200	12.10	<=23.98	Pass	
802.11ac (VHT20)		5240	12.95	<=23.98	Pass	
		5745	8.62	<=30	Pass	
		5785	8.38	<=30	Pass	
		5825	8.43	<=30	Pass	
	SISO	5190	11.90	<=23.98	Pass	
802.11ac (VHT40)		5230	12.88	<=23.98	Pass	
		5755	8.80	<=30	Pass	
		5795	8.74	<=30	Pass	
802.11ac	0100	5210	12.59	<=23.98	Pass	
(VHT80) SISO	5150	5775	8.70	<=30	Pass	



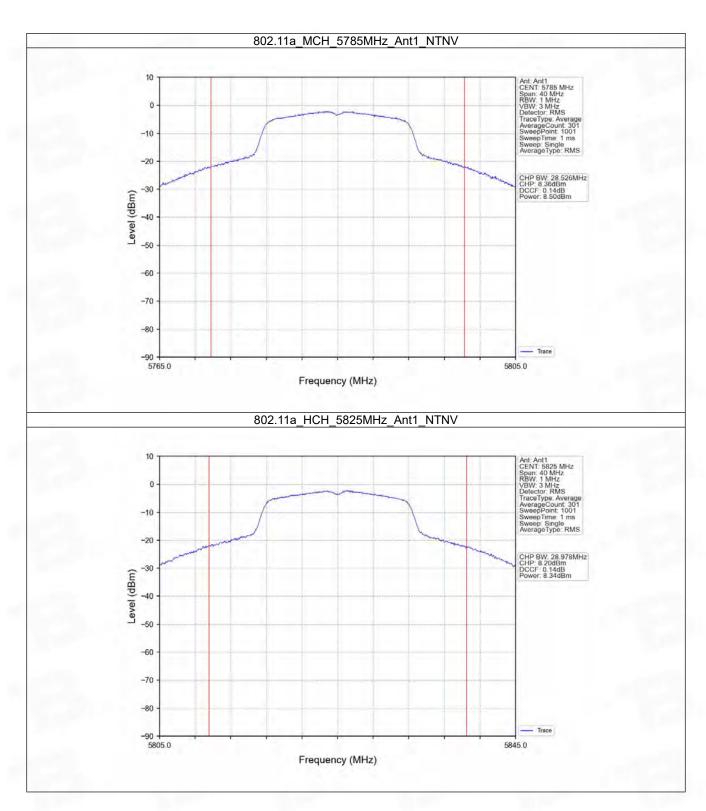
3.1.2 Test Graph



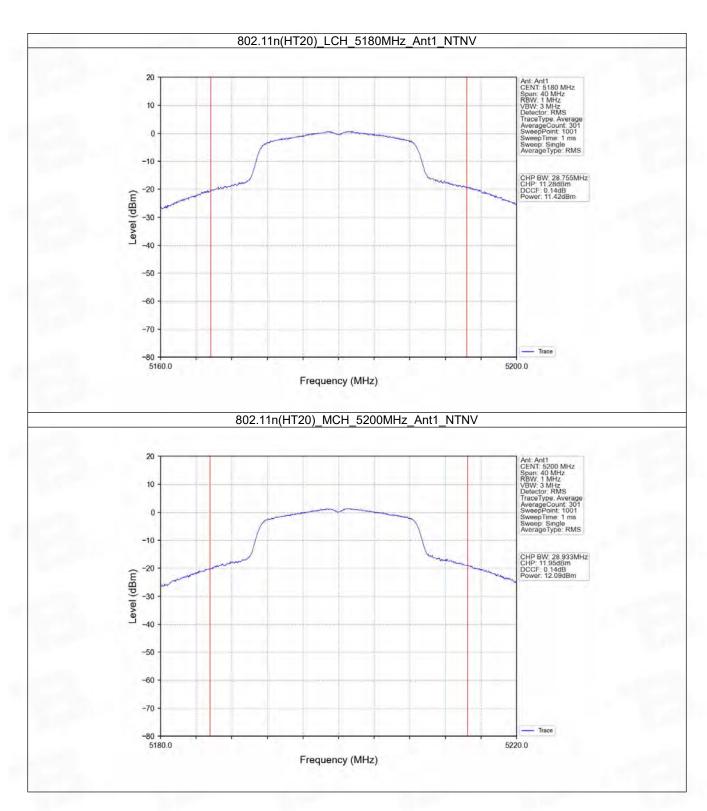




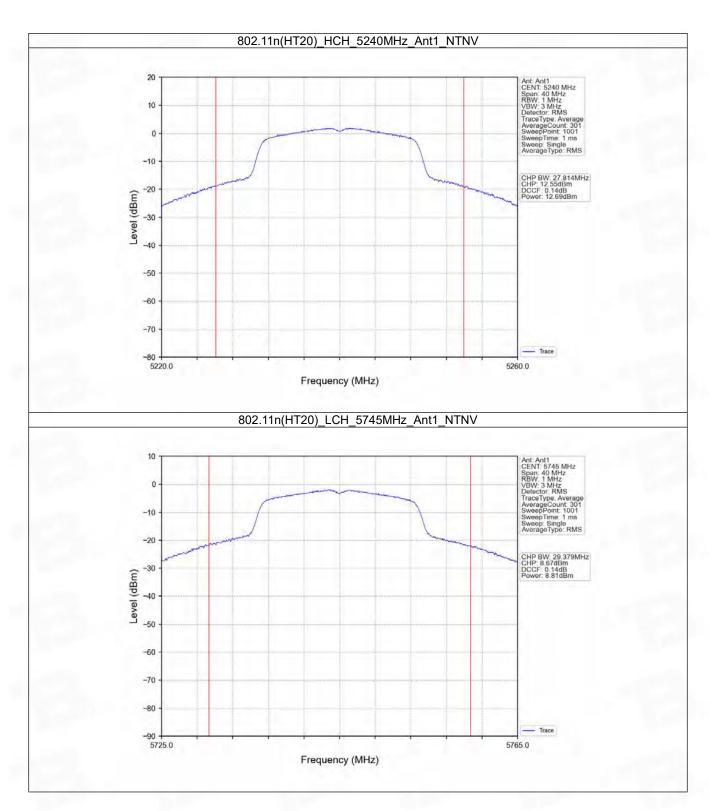




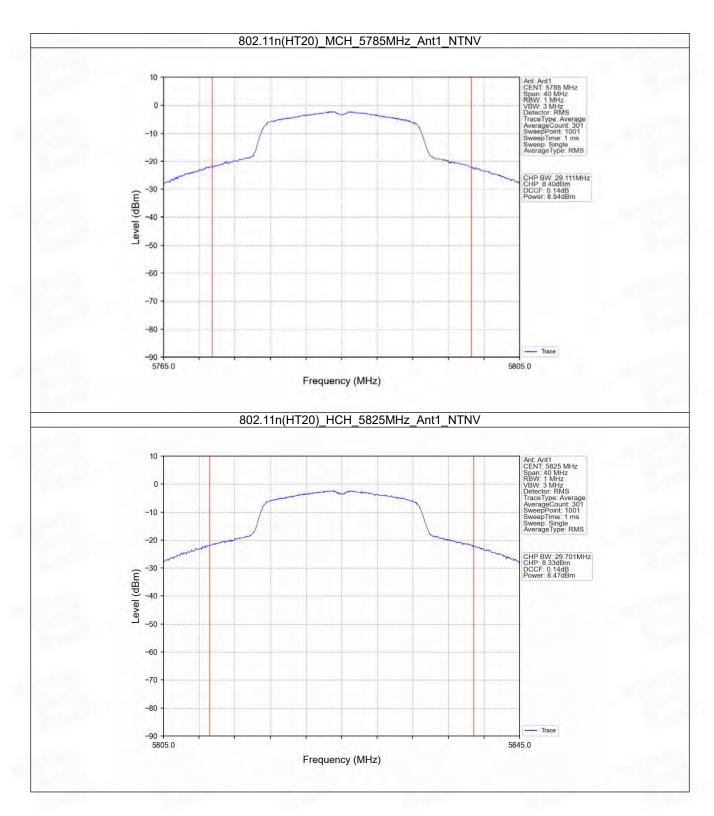




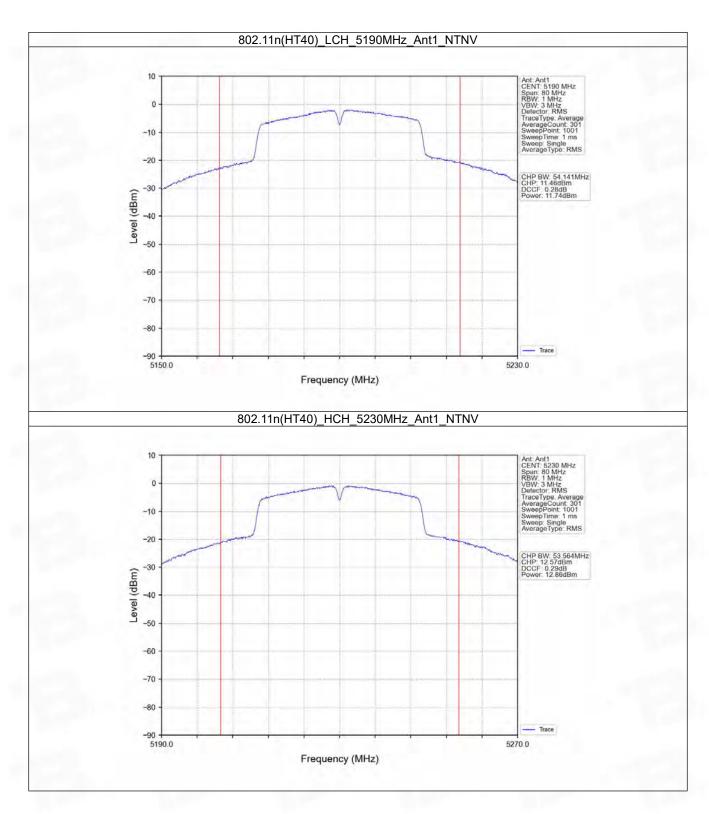




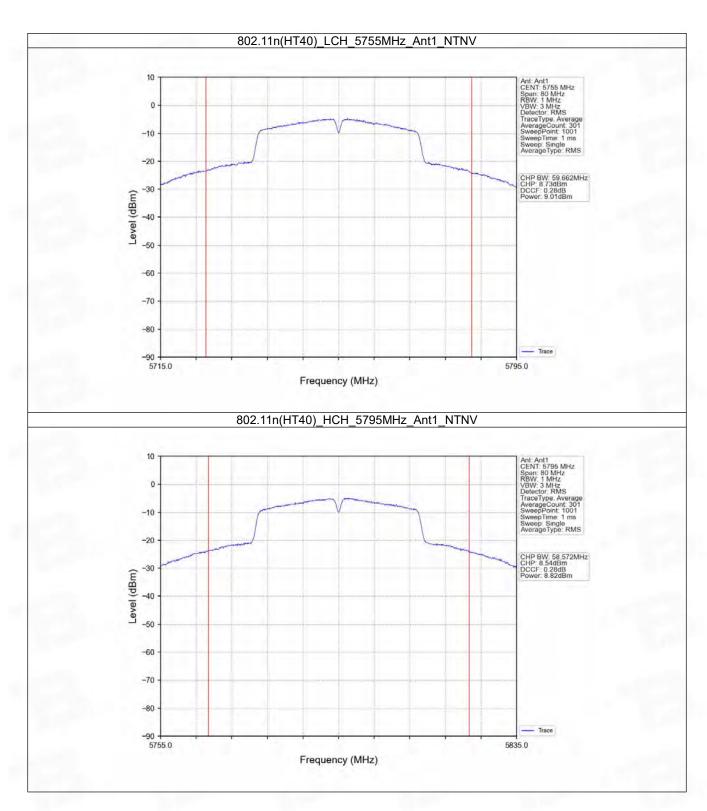




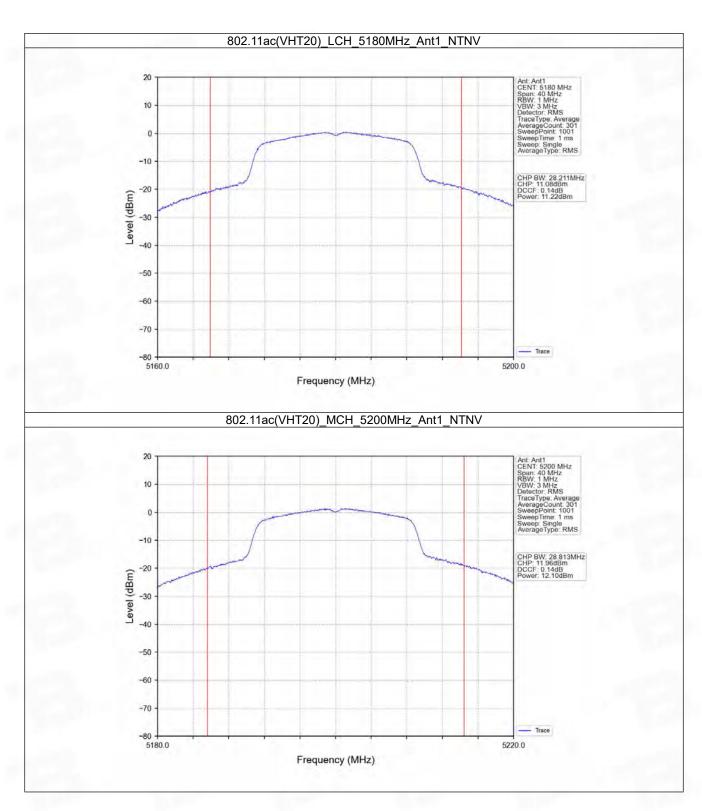




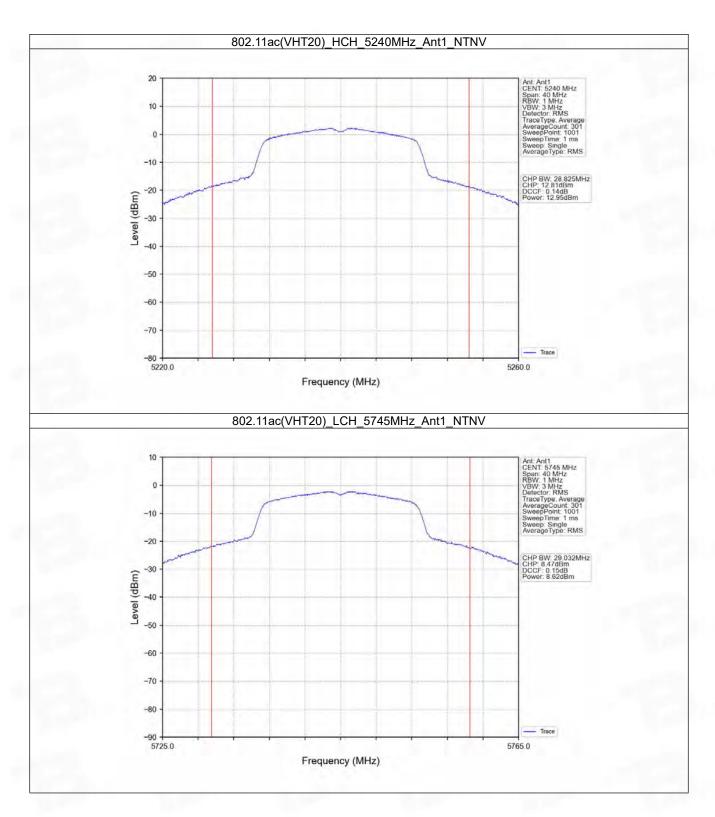




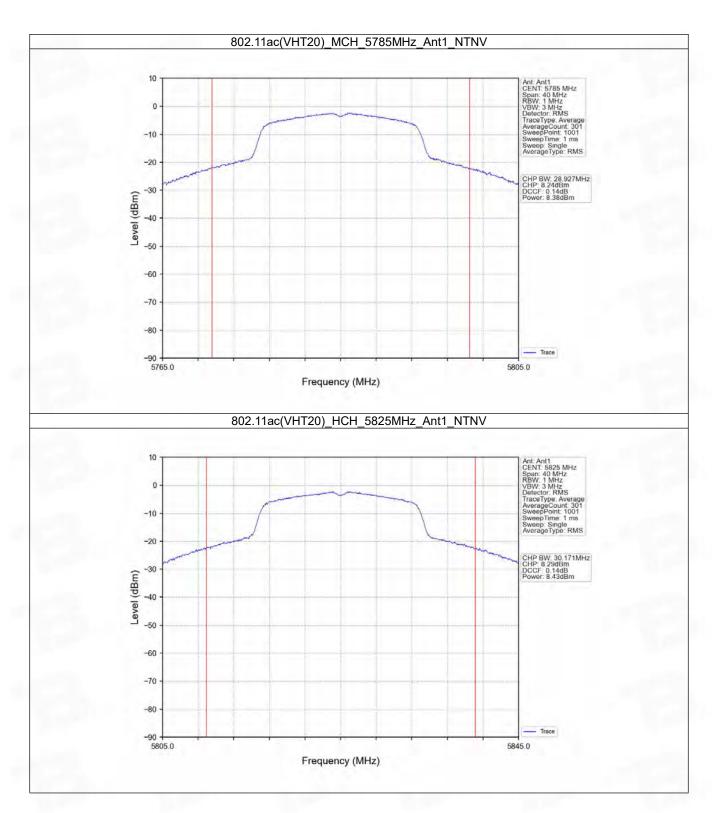




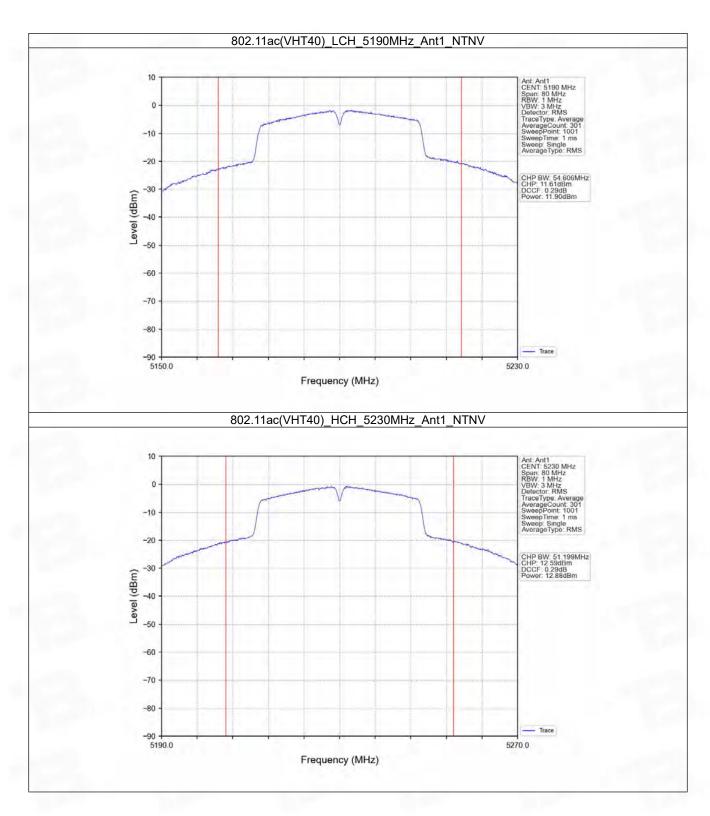




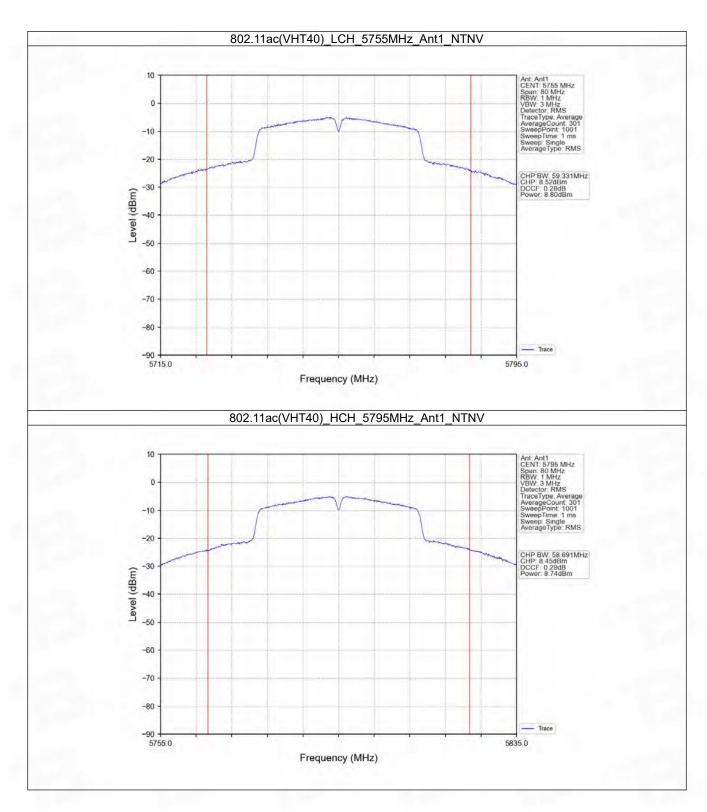




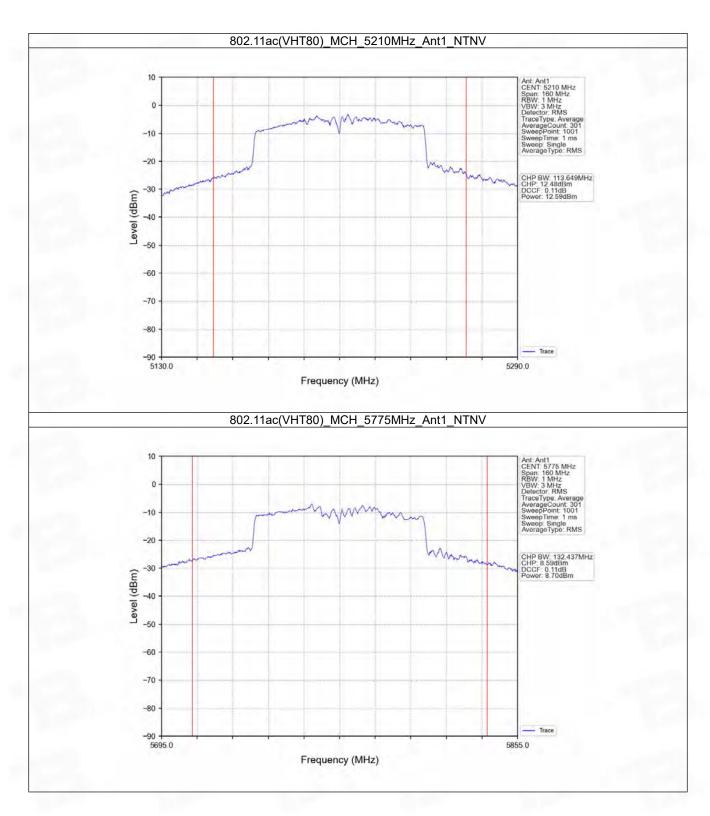


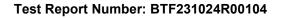














4. Maximum Power Spectral Density

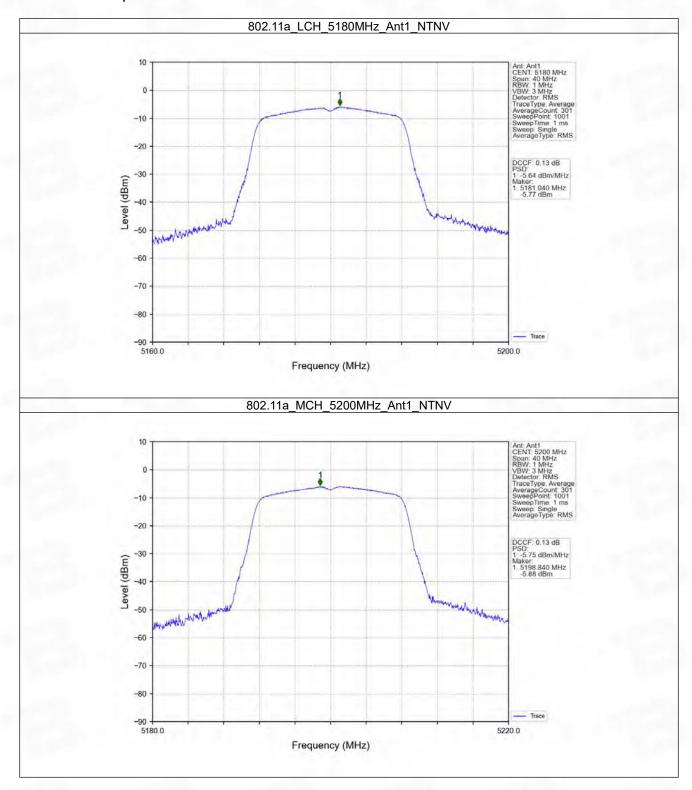
4.1 PSD

4.1.1 Test Result

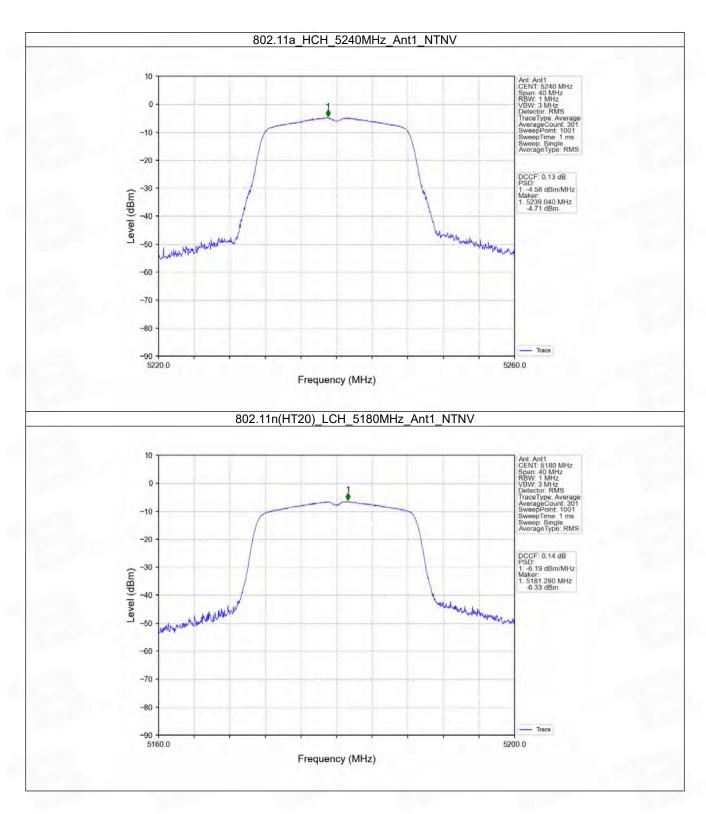
Mode	TX	Frequency	Maximum PS	Vandiat	
	Type	(MHz)	ANT1	Limit	Verdict
	SISO	5180	-5.64	<=11	Pass
802.11a		5200	-5.75	<=11	Pass
		5240	-4.58	<=11	Pass
802.11n	SISO	5180	-6.19	<=11	Pass
(HT20)		5200	-6.07	<=11	Pass
(П120)		5240	-4.82	<=11	Pass
802.11n	SISO	5190	-8.56	<=11	Pass
(HT40)		5230	-6.99	<=11	Pass
802.11ac	SISO	5180	-6.23	<=11	Pass
(VHT20)		5200	-5.02	<=11	Pass
(VH120)		5240	-3.98	<=11	Pass
802.11ac (VHT40)	SISO	5190	-8.25	<=11	Pass
		5230	-6.19	<=11	Pass
802.11ac (VHT80)	SISO	5210	-9.86	<=11	Pass
ote1: Antenna Ga	in: Ant1: 1.20dBi				



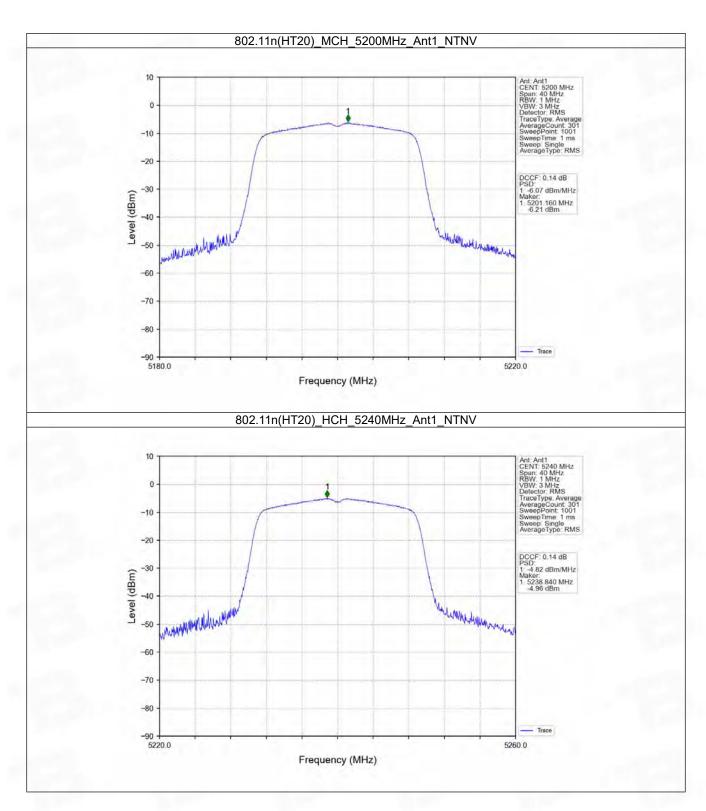
4.1.2 Test Graph



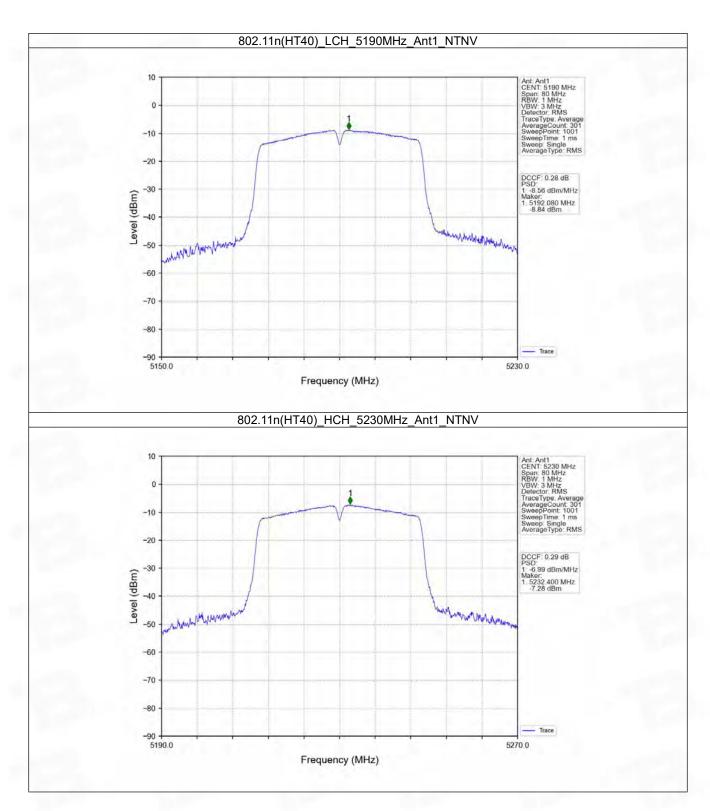




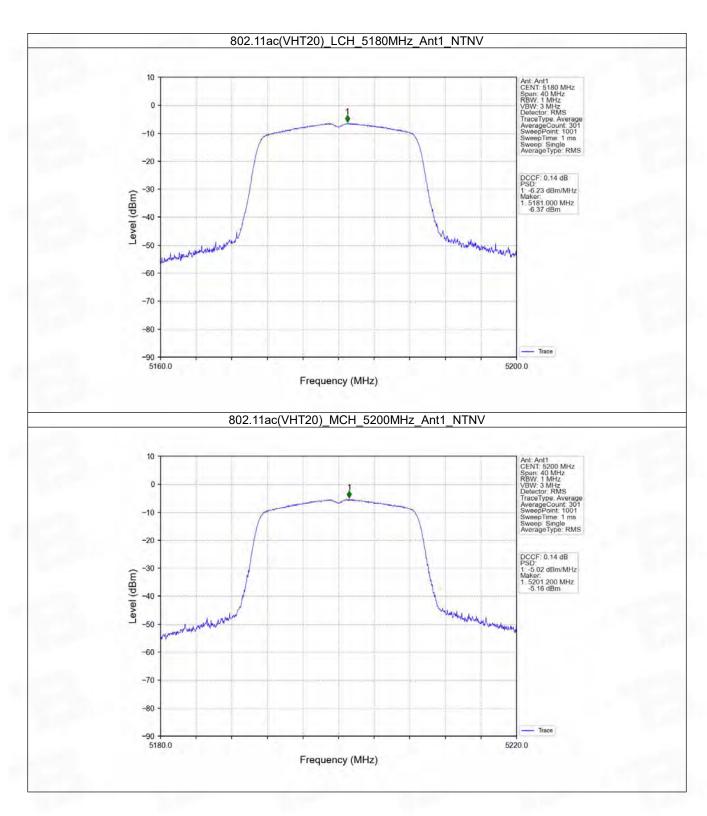




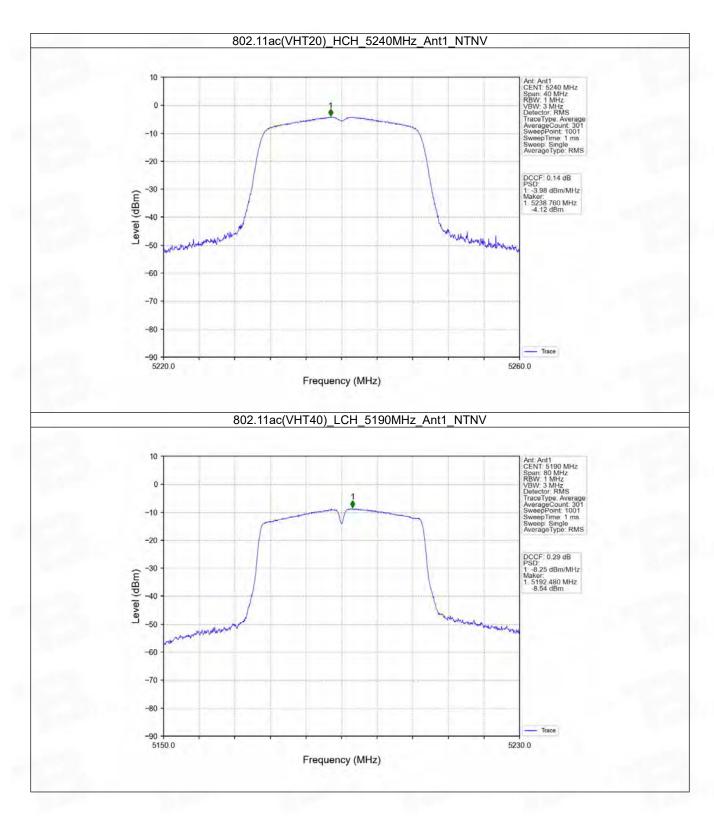




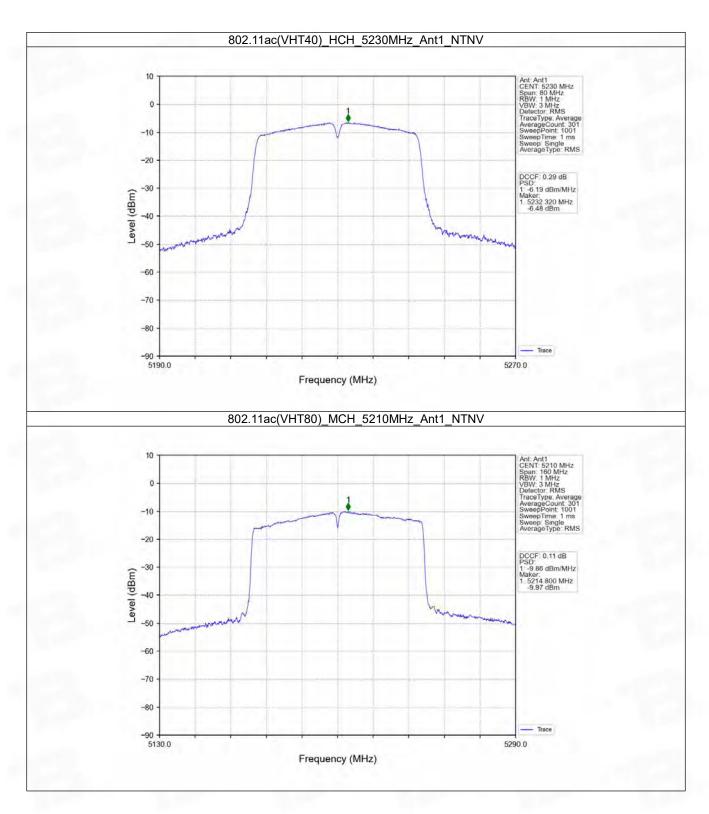


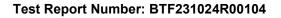














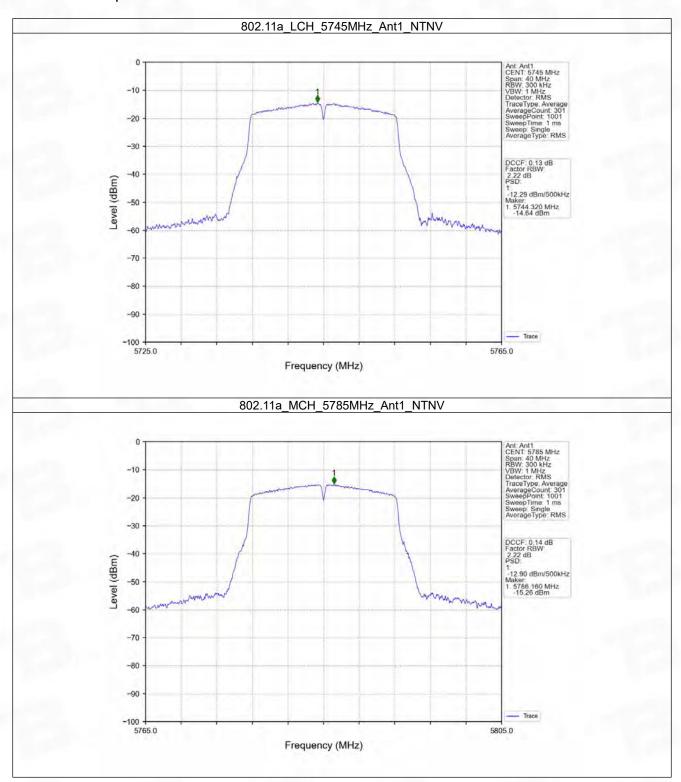
4.2 PSD-Band3

4.2.1 Test Result

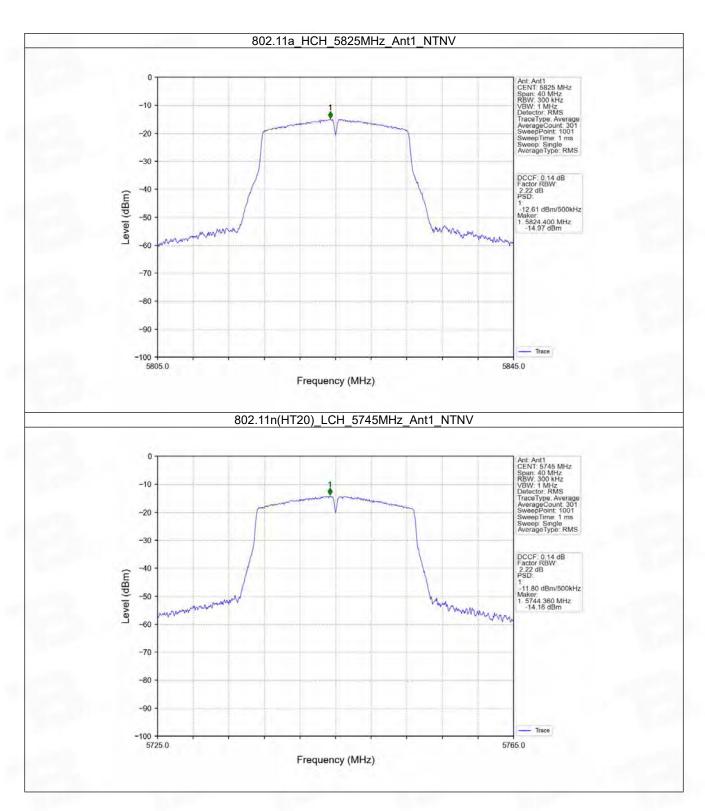
Mode	TX	Frequency	Maximum PSD	(dBm/500kHz)	Verdict
wode	Type	(MHz)	ANT1	Limit	verdict
		5745	-12.29	<=30	Pass
802.11a	SISO	5785	-12.90	<=30	Pass
		5825	-12.61	<=30	Pass
000 44=		5745	-11.80	<=30	Pass
802.11n	SISO	5785	-12.31	<=30	Pass
(HT20)		5825	-11.75	<=30	Pass
802.11n	SISO	5755	-14.94	<=30	Pass
(HT40)	3130	5795	-15.41	<=30	Pass
802.11ac		5745	-11.02	<=30	Pass
	SISO	5785	-11.54	<=30	Pass
(VHT20)		5825	-11.23	<=30	Pass
802.11ac	SISO	5755	-14.43	<=30	Pass
(VHT40)	3130	5795	-14.27	<=30	Pass
802.11ac (VHT80)	SISO	5775	-17.56	<=30	Pass
ote1: Antenna G	ain: Ant1: 1.20dE	Bi;			



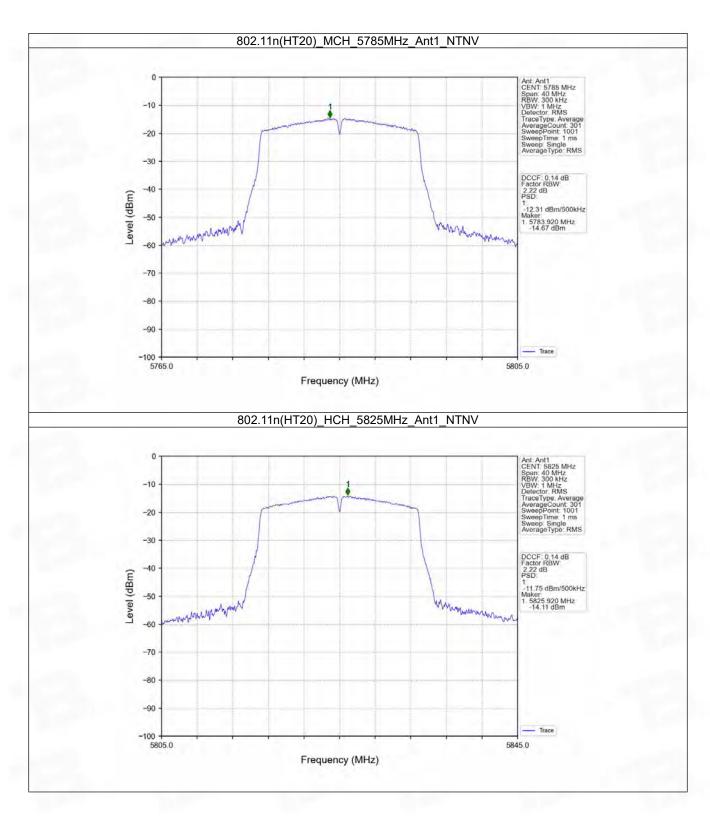
4.2.2 Test Graph



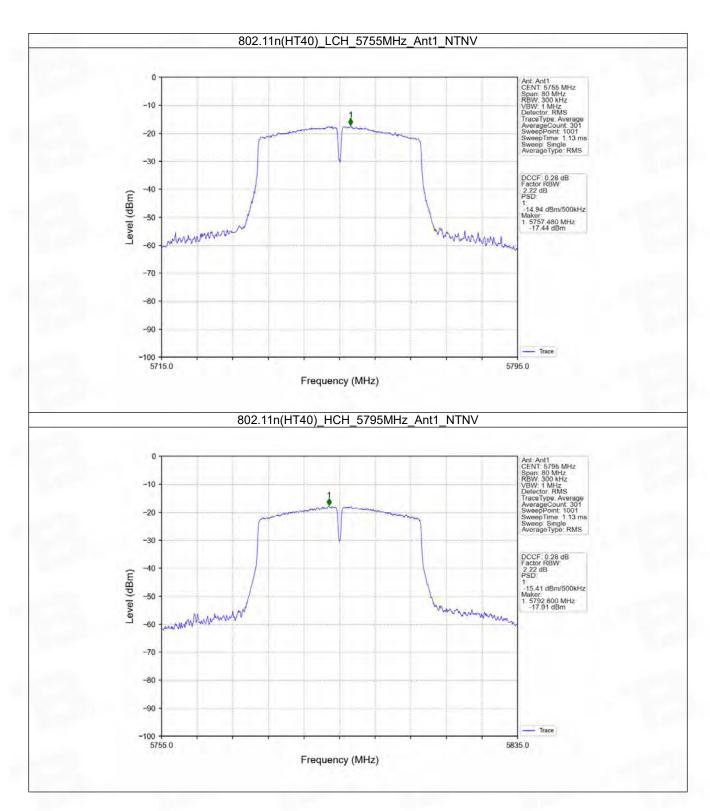




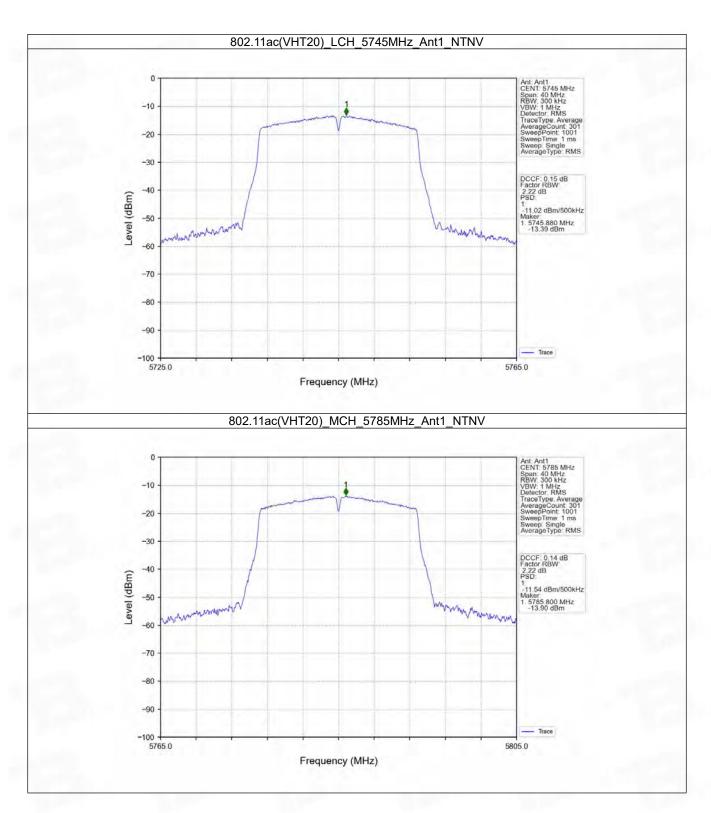




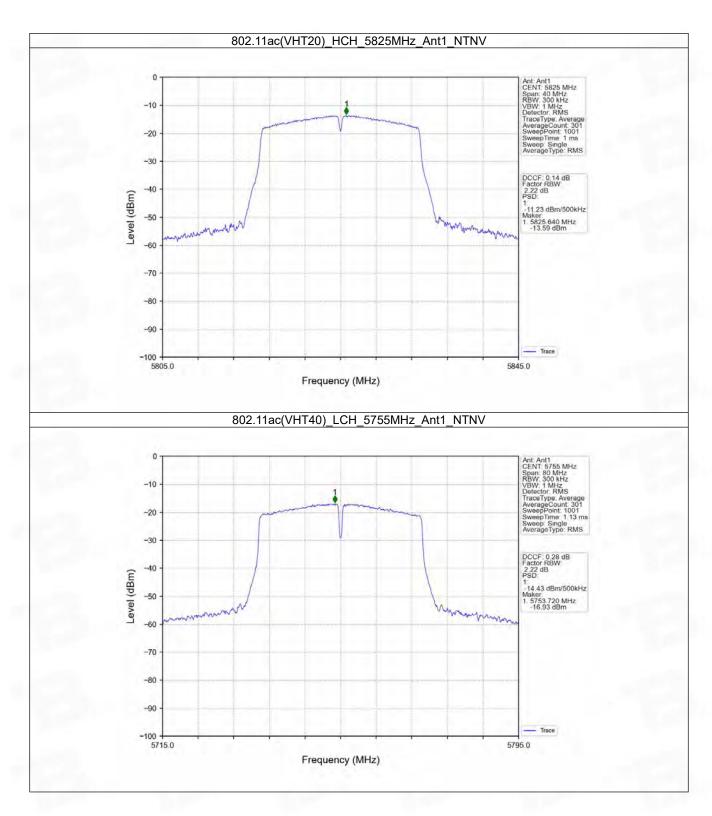




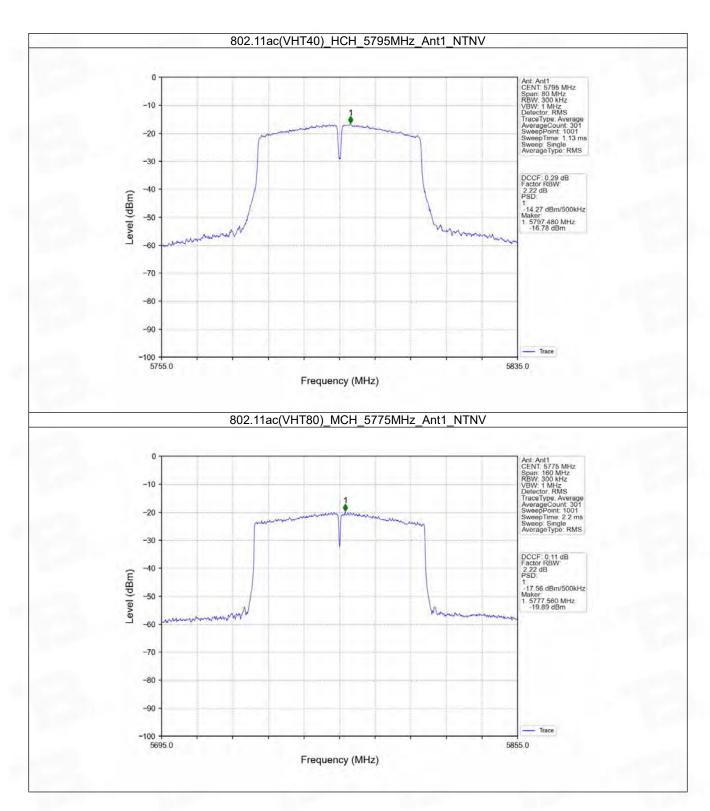


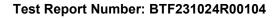












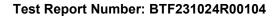


5. Frequency Stability

5.1 Ant1

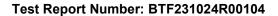
5.1.1 Test Result

Made TX	TX	Frequency	Temperature	Ant1 Voltage	Measured Frequency	Limit	\ /= = -1:	
Mode	Type	(MHz)	(°C)	(VAČ)	(MHz)	(MHz)	Verdic	
	- / '			102	5180.020	5150 to 5250	Pass	
			20	120	5180.040	5150 to 5250	Pass	
				138	5180.040	5150 to 5250	Pass	
			-30	120	5180.080	5150 to 5250	Pass	
			-20	120	5180.080	5150 to 5250	Pass	
		5180	-10	120	5180.040	5150 to 5250	Pass	
			0	120	5180.020	5150 to 5250	Pass	
			10	120	5180.040	5150 to 5250	Pass	
			30	120	5179.980	5150 to 5250	Pass	
			40	120	5180.020	5150 to 5250	Pass	
			50	120	5180.060	5150 to 5250	Pass	
				102	5200.000	5150 to 5250	Pass	
			20	120	5199.960	5150 to 5250	Pass	
				138	5199.980	5150 to 5250	Pass	
			-30	120	5200.080	5150 to 5250	Pass	
			-20	120	5200.020	5150 to 5250	Pass	
		5200	-10	120	5200.040	5150 to 5250	Pass	
			0	120	5200.100	5150 to 5250	Pass	
			10	120	5200.040	5150 to 5250	Pass	
		30	120	5200.040	5150 to 5250	Pass		
		40	120	5200.000	5150 to 5250	Pass		
			50	120	5199.980	5150 to 5250	Pass	
302.11a	SISO	5240	0		102	5240.020	5150 to 5250	Pass
				20	120	5240.020	5150 to 5250	Pass
						138	5240.040	5150 to 5250
			-30	120	5239.940	5150 to 5250	Pass	
			-20	120	5240.060	5150 to 5250	Pass	
			-10	120	5240.040	5150 to 5250	Pass	
			0	120	5240.040	5150 to 5250	Pass	
			10	120	5240.080	5150 to 5250	Pass	
			30	120	5239.960	5150 to 5250	Pass	
			40	120	5240.020	5150 to 5250	Pass	
			50	120	5240.020	5150 to 5250	Pass	
				102	5744.940	5725 to 5850	Pass	
			20	120	5744.980	5725 to 5850	Pass	
				138	5745.020	5725 to 5850	Pass	
			-30	120	5744.980	5725 to 5850	Pass	
		5745	-20	120	5745.020	5725 to 5850	Pass	
			-10	120	5745.020	5725 to 5850	Pass	
			0	120	5744.980	5725 to 5850	Pass	
			10	120	5745.000	5725 to 5850	Pass	
			30	120	5745.000	5725 to 5850	Pass	
			40	120	5745.020	5725 to 5850	Pass	
			50	120	5744.900	5725 to 5850	Pass	
		5785	20	102	5784.940	5725 to 5850	Pass	



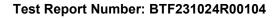


				120	5785.020	5725 to 5850	Pass
				138	5784.980	5725 to 5850	Pass
			-30	120	5784.980	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass
			-10	120	5784.980	5725 to 5850	Pass
			0	120	5785.020	5725 to 5850	Pass
			10	120	5784.980	5725 to 5850	Pass
			30	120	5784.980	5725 to 5850	Pass
			40	120	5785.000	5725 to 5850	Pass
			50	120	5784.960	5725 to 5850	Pass
				102	5824.980	5725 to 5850	Pass
			20	120	5825.040	5725 to 5850	Pass
				138	5825.080	5725 to 5850	Pass
			-30	120	5825.000	5725 to 5850	Pass
			-20	120	5825.040	5725 to 5850	Pass
		5825	-10	120	5825.000	5725 to 5850	Pass
		0020	0	120	5824.960	5725 to 5850	Pass
			10	120	5824.900	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
			40	120	5824.940	5725 to 5850	Pass
			50	120	5825.000	5725 to 5850	Pass
				102	5180.080	5150 to 5250	Pass
			20	120	5180.080	5150 to 5250	Pass
			_0	138	5179.980	5150 to 5250	Pass
			-30	120	5180.080	5150 to 5250	Pass
			-20	120	5180.000	5150 to 5250	Pass
		5180	-10	120	5180.020	5150 to 5250	Pass
			0	120	5180.100	5150 to 5250	Pass
		10	120	5180.000	5150 to 5250	Pass	
			30	120	5179.960	5150 to 5250	Pass
			40	120	5180.080	5150 to 5250	Pass
			50	120	5180.060	5150 to 5250	Pass
				102	5200.060	5150 to 5250	Pass
			20	120	5200.000	5150 to 5250	Pass
			20	138	5199.980	5150 to 5250	Pass
			-30	120	5200.080	5150 to 5250	Pass
			-20	120	5199.980	5150 to 5250	Pass
		5200	-10	120	5200.040	5150 to 5250	Pass
		5200	0	120	5199.960	5150 to 5250	Pass
802.11n	SISO		10	120	5200.100	5150 to 5250	Pass
(HT20)	0.00		30	120	5200.040	5150 to 5250	Pass
			40	120	5200.040	5150 to 5250	Pass
			50	120	5200.000	5150 to 5250	Pass
			50	102	5239.940	5150 to 5250	Pass
			20	120	5239.980	5150 to 5250	Pass
			20	138	5239.960	5150 to 5250	Pass
			-30	120	5240.020	5150 to 5250	Pass
			-20	120	5240.000	5150 to 5250	Pass
		5240	-10	120	5240.000	5150 to 5250	Pass
		5240	0	120	5240.060	5150 to 5250	Pass
			10	120	5240.060	5150 to 5250 5150 to 5250	Pass
			30	120	5240.000		
			40			5150 to 5250	Pass
				120	5239.960	5150 to 5250	Pass
	-		50	120	5239.980	5150 to 5250	Pass
			20	102	5744.980	5725 to 5850	Pass
		5745	20	120	5745.000	5725 to 5850	Pass
			20	138	5745.000	5725 to 5850	Pass
			-30	120	5745.040	5725 to 5850	Pass



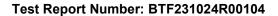


			-20	120	5744.960	5725 to 5850	Pass
			-10	120	5744.980	5725 to 5850	Pass
			0	120	5744.940	5725 to 5850	Pass
			10	120	5744.980	5725 to 5850	Pass
			30	120	5745.000	5725 to 5850	Pass
			40	120	5744.920	5725 to 5850	Pass
	1000		50	120	5744.940	5725 to 5850	Pass
				102	5784.980	5725 to 5850	Pass
			20	120	5785.060	5725 to 5850	Pass
				138	5785.060	5725 to 5850	Pass
			-30	120	5784.980	5725 to 5850	Pass
			-20	120	5785.040	5725 to 5850	Pass
		5785	-10	120	5784.940	5725 to 5850	Pass
		5/85	0	120	5784.900	5725 to 5850	Pass
			10	120	5785.040	5725 to 5850	Pass
			30	120	5784.980	5725 to 5850	Pass
			40	120	5785.000	5725 to 5850	Pass
			50	120	5784.960	5725 to 5850	Pass
				102	5825.020	5725 to 5850	Pass
			20	120	5824.980	5725 to 5850	Pass
				138	5825.020	5725 to 5850	Pass
			-30	120	5825.000	5725 to 5850	Pass
			-20	120	5825.060	5725 to 5850	Pass
		5825	-10	120	5825.000	5725 to 5850	Pass
			0	120	5824.960	5725 to 5850	Pass
			10	120	5825.020	5725 to 5850	Pass
			30	120	5824.960	5725 to 5850	Pass
			40	120	5825.000	5725 to 5850	Pass
			50	120	5825.000	5725 to 5850	Pass
				102	5190.080	5150 to 5250	Pass
			20	120	5190.000	5150 to 5250	Pass
				138	5190.040	5150 to 5250	Pass
			-30	120	5190.080	5150 to 5250	Pass
		5190	-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.080	5150 to 5250	Pass
			0	120	5190.080	5150 to 5250	Pass
			10	120	5190.040	5150 to 5250	Pass
			30	120	5190.080	5150 to 5250	Pass
			40	120	5190.040	5150 to 5250	Pass
			50	120	5190.040	5150 to 5250	Pass
				102	5230.040	5150 to 5250	Pass
			20	120	5230.000	5150 to 5250	Pass
000 11-				138	5230.000	5150 to 5250	Pass
802.11n	SISO	o	-30	120	5230.000	5150 to 5250	Pass
(HT40)			-20	120	5229.960	5150 to 5250	Pass
		5230	-10	120	5230.040	5150 to 5250	Pass
			0	120	5230.040	5150 to 5250	Pass
			10	120	5230.000	5150 to 5250	Pass
			30	120	5230.000	5150 to 5250	Pass
			40	120	5230.000	5150 to 5250	Pass
			50	120	5230.040	5150 to 5250	Pass
				102	5755.000	5725 to 5850	Pass
			20	120	5755.000	5725 to 5850	Pass
			_0	138	5755.000	5725 to 5850	Pass
		5755	-30	120	5754.960	5725 to 5850	Pass
		3.30	-20	120	5755.000	5725 to 5850	Pass
			20	120	0100.000	0, 20 10 0000	1 433
			-10	120	5755.000	5725 to 5850	Pass



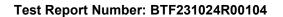


			10	120	5755.040	5725 to 5850	Pass	
		30	120	5755.040	5725 to 5850	Pass		
			40	120	5755.000	5725 to 5850	Pass	
			50	120	5755.000	5725 to 5850	Pass	
			30	102	5795.000	5725 to 5850	Pass	
			20	120	5795.000	5725 to 5850	Pass	
			20	138	5795.040	5725 to 5850	Pass	
	5795		20	120				
			-30 -20	120	5795.000 5795.000	5725 to 5850 5725 to 5850	Pass Pass	
		570E	-20 -10	120	5795.000			
				5795.000	5725 to 5850	Pass		
		0	120		5725 to 5850	Pass		
		10	120	5795.000	5725 to 5850	Pass		
			30	120	5795.000	5725 to 5850	Pass	
			40	120	5795.040	5725 to 5850	Pass	
			50	120	5795.000	5725 to 5850	Pass	
				102	5180.020	5150 to 5250	Pass	
			20	120	5180.000	5150 to 5250	Pass	
				138	5180.020	5150 to 5250	Pass	
			-30	120	5180.040	5150 to 5250	Pass	
			-20	120	5180.040	5150 to 5250	Pass	
		5180	-10	120	5180.000	5150 to 5250	Pass	
			0	120	5179.980	5150 to 5250	Pass	
			10	120	5180.040	5150 to 5250	Pass	
			30	120	5180.040	5150 to 5250	Pass	
			40	120	5180.060	5150 to 5250	Pass	
			50	120	5179.960	5150 to 5250	Pass	
			20	102	5200.060	5150 to 5250	Pass	
				120	5200.100	5150 to 5250	Pass	
				138	5200.060	5150 to 5250	Pass	
			-30	120	5200.040	5150 to 5250	Pass	
			-20	120	5200.040	5150 to 5250	Pass	
		5200 O	-10	120	5200.020	5150 to 5250	Pass	
			0	120	5200.060	5150 to 5250	Pass	
			10	120	5200.100	5150 to 5250	Pass	
			30	120	5200.100	5150 to 5250	Pass	
			40	120	5200.040	5150 to 5250	Pass	
02.11ac	SISO		50	120	5200.060	5150 to 5250	Pass	
VHT20)				102	5239.980	5150 to 5250	Pass	
				20	120	5240.000	5150 to 5250	Pass
			_0	138	5239.980	5150 to 5250	Pass	
			-30	120	5240.000	5150 to 5250	Pass	
			-20	120	5239.960	5150 to 5250	Pass	
		5240	-10	120	5239.920	5150 to 5250	Pass	
			0	120	5240.000	5150 to 5250	Pass	
			10	120	5239.980	5150 to 5250	Pass	
			30	120	5240.000	5150 to 5250	Pass	
			40	120	5239.960	5150 to 5250	Pass	
			50	120	5240.020	5150 to 5250	Pass	
			50	102	5745.000	5725 to 5850	Pass	
			20	120	5745.000	5725 to 5850	Pass	
			20	138	5744.960	5725 to 5850	Pass	
			-30	120	5744.960	5725 to 5850	Pass	
				120				
		5745	-20		5744.980	5725 to 5850	Pass	
			-10	120	5744.980	5725 to 5850	Pass	
			0	120	5744.940	5725 to 5850	Pass	
			10	120	5744.920	5725 to 5850	Pass	
			30	120	5744.980	5725 to 5850	Pass	
			40	120	5744.940	5725 to 5850	Pass	





			50	120	5744.980	5725 to 5850	Pass
			30	102	5785.060	5725 to 5850	Pass
			20	120	5784.980	5725 to 5850	Pass
			20	138	5785.040	5725 to 5850	Pass
			-30	120	5784.980	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass
		5785	-10	120	5785.020	5725 to 5850	Pass
		0700	0	120	5784.980	5725 to 5850	Pass
			10	120	5784.960	5725 to 5850	Pass
			30	120	5784.940	5725 to 5850	Pass
			40	120	5784.960	5725 to 5850	Pass
			50	120			
			50		5784.980	5725 to 5850	Pass
			20	102	5824.900	5725 to 5850	Pass
			20	120	5825.020	5725 to 5850	Pass
				138	5824.980	5725 to 5850	Pass
			-30	120	5825.020	5725 to 5850	Pass
			-20	120	5824.940	5725 to 5850	Pass
		5825	-10	120	5825.040	5725 to 5850	Pass
			0	120	5824.960	5725 to 5850	Pass
			10	120	5825.060	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
			40	120	5824.920	5725 to 5850	Pass
			50	120	5824.980	5725 to 5850	Pass
				102	5190.080	5150 to 5250	Pass
			20	120	5190.040	5150 to 5250	Pass
				138	5190.040	5150 to 5250	Pass
		5190	-30	120	5190.080	5150 to 5250	Pass
			-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.040	5150 to 5250	Pass
			0	120	5190.040	5150 to 5250	Pass
			10	120	5190.040	5150 to 5250	Pass
			30	120	5190.000	5150 to 5250	Pass
			40	120	5190.040	5150 to 5250	Pass
			50	120	5190.080	5150 to 5250	Pass
				102	5230.040	5150 to 5250	Pass
			20	120	5230.040	5150 to 5250	Pass
				138	5230.120	5150 to 5250	Pass
			-30	120	5230.040	5150 to 5250	Pass
			-20	120	5230.040	5150 to 5250	Pass
		5230	-10	120	5230.040	5150 to 5250	Pass
802.11ac	SISO	3230	0	120	5230.000	5150 to 5250	Pass
(VHT40)	0.00		10	120	5230.000	5150 to 5250	Pass
			30	120	5230.000	5150 to 5250	Pass
			40	120	5230.000	5150 to 5250	Pass
			50	120		5150 to 5250 5150 to 5250	
			50	102	5229.960		Pass
			20		5755.000	5725 to 5850	Pass
			20	120	5755.000	5725 to 5850	Pass
			00	138	5754.920	5725 to 5850	Pass
			-30	120	5754.960	5725 to 5850	Pass
		5355	-20	120	5755.000	5725 to 5850	Pass
		5755	-10	120	5755.000	5725 to 5850	Pass
			0	120	5755.000	5725 to 5850	Pass
			10	120	5755.000	5725 to 5850	Pass
			30	120	5754.920	5725 to 5850	Pass
			40	120	5755.000	5725 to 5850	Pass
			50	120	5755.000	5725 to 5850	Pass
-		E705		102	5795.000	5725 to 5850	Pass
		5795	20	120	5795.000	5725 to 5850	Pass





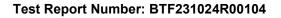
				138	5795.000	5725 to 5850	Pass
			-30	120	5795.000	5725 to 5850	Pass
			-20	120	5795.000	5725 to 5850	Pass
			-10	120	5795.000	5725 to 5850	Pass
			0	120	5794.960	5725 to 5850	Pass
			10	120	5794.960	5725 to 5850	Pass
	Last II		30	120	5795.000	5725 to 5850	Pass
			40	120	5795.000	5725 to 5850	Pass
			50	120	5795.000	5725 to 5850	Pass
				102	5210.075	5150 to 5250	Pass
			20	120	5210.075	5150 to 5250	Pass
				138	5210.075	5150 to 5250	Pass
			-30	120	5210.075	5150 to 5250	Pass
			-20	120	5210.075	5150 to 5250	Pass
		5210	-10	120	5210.075	5150 to 5250	Pass
			0	120	5210.075	5150 to 5250	Pass
			10	120	5210.075	5150 to 5250	Pass
			30	120	5210.075	5150 to 5250	Pass
		SISO	40	120	5210.075	5150 to 5250	Pass
802.11ac	SISO		50	120	5210.150	5150 to 5250	Pass
(VHT80)	3130			102	5775.000	5725 to 5850	Pass
			20	120	5775.000	5725 to 5850	Pass
				138	5775.000	5725 to 5850	Pass
			-30	120	5775.000	5725 to 5850	Pass
			-20	120	5775.000	5725 to 5850	Pass
		5775	-10	120	5774.925	5725 to 5850	Pass
			0	120	5775.000	5725 to 5850	Pass
			10	120	5774.925	5725 to 5850	Pass
			30	120	5775.000	5725 to 5850	Pass
			40	120	5775.000	5725 to 5850	Pass
			50	120	5775.000	5725 to 5850	Pass

6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5180	5240	0.0197	12.95
5745	5825	0.0078	8.90
5190	5230	0.0194	12.88
5755	5795	0.0080	9.01
5210	5210	0.0182	12.59







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