



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: Mobile Phone
Brand Name: Blackview
Model Number: SHARK 8

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: BTF231031R00804
Test Standards: 47 CFR Part 15E
Test Conclusion: Pass
FCC ID: 2A7DX-SHARK8
Test Date: 2023-11-01 to 2023-12-05
Date of Issue: 2023-12-06

Prepared By:

Aria Zhang

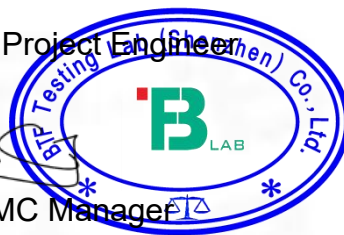
Date:

Aria Zhang / Project Engineer
2023-12-06

Approved By:

Ryan.CJ

Ryan.CJ / EMC Manager
2023-12-06



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2023-12-06	Original

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

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1 Introduction

1.1 Identification of Testing Laboratory

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

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Announcement

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

2 Product Information

2.1 Application Information

Company Name:	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:	Mobile Phone
Test Model Number:	SHARK 8
Hardware Version:	N/A
Software Version:	N/A

2.5 Technical Information

Power Supply:	DC 3.87V from battery
Operation Frequency Range	U-NII Band 1: 5.18~5.24 GHz 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
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	-0.7 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)	
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4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	/	/
Coaxial Switcher	SCHWARZBECK	CX210	CX210	/	/
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWARZ	ESCI3	101422	2023-11-15	2024-11-14

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

Maximum conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/
WIDEBAND RADIO COMMUNICATION 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	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/
WIDEBAND RADIO COMMUNICATION 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	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/
WIDEBAND RADIO COMMUNICATION 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	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/



WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15
MXA 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	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/
WIDEBAND RADIO COMMUNICATION 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	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/
WIDEBAND RADIO COMMUNICATION 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	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated	Dongguan Tongmen	etm-6050c	20211026123	/	/

Power Supply	Electronic Technology Co., LTD				
WIDEBAND RADIO COMMUNICATION 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	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/
WIDEBAND RADIO COMMUNICATION 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	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/
WIDEBAND RADIO COMMUNICATION 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	SCHWARZBECK	BBV9744	00246	/	/
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	/	/

RE Cable	REBES Talent	UF2-NMNM-10m	21101570	/	/
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	/	/
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	/	/
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preampilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12

Undesirable emission limits (below 1GHz)					
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
Preampilifier	SCHWARZBECK	BBV9744	00246	/	/
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	/	/
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	/	/
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	/	/
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	/	/
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preampilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12

Undesirable emission limits (above 1GHz)					
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	/	/
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	/	/
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	/	/
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	/	/
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	/	/
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EM	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
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.
TM3	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)

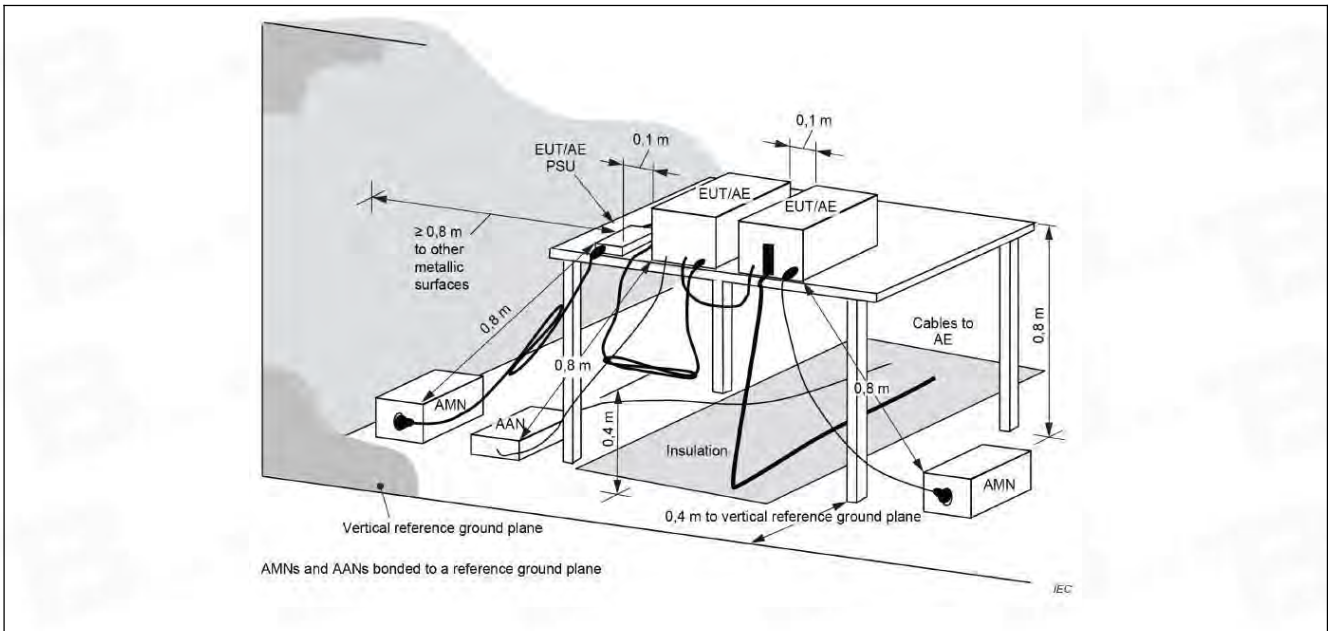
6.1 Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		

6.1.1 E.U.T. Operation:

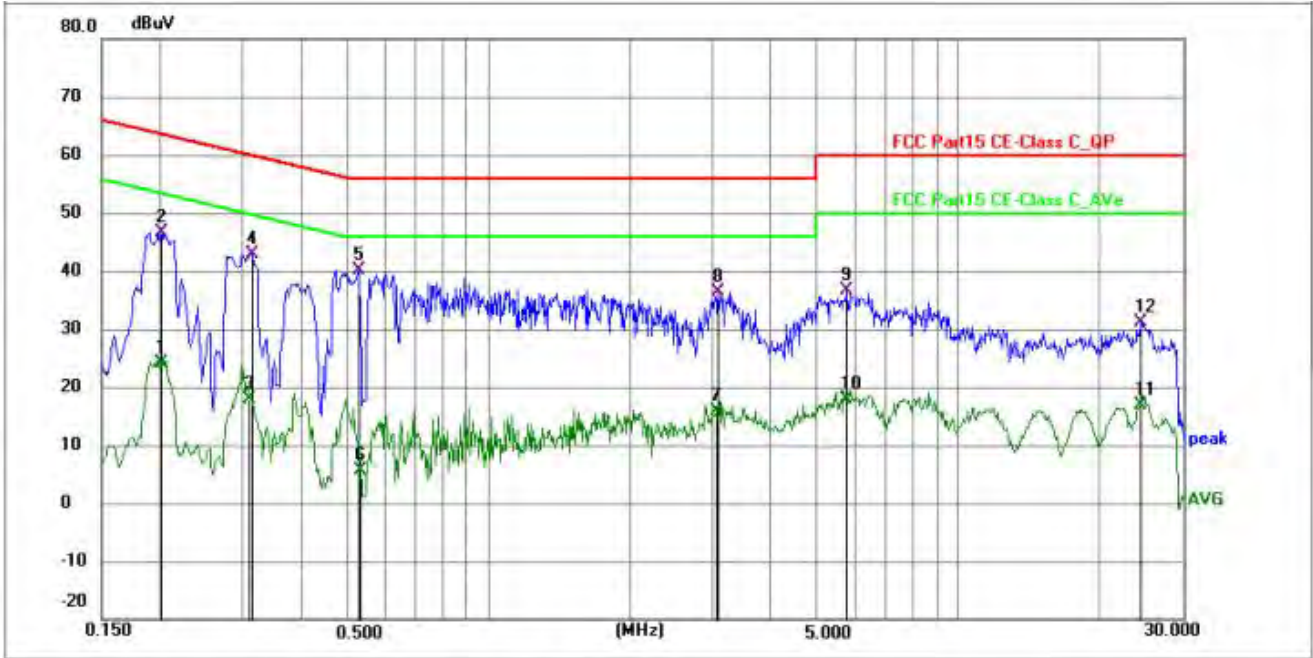
Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:



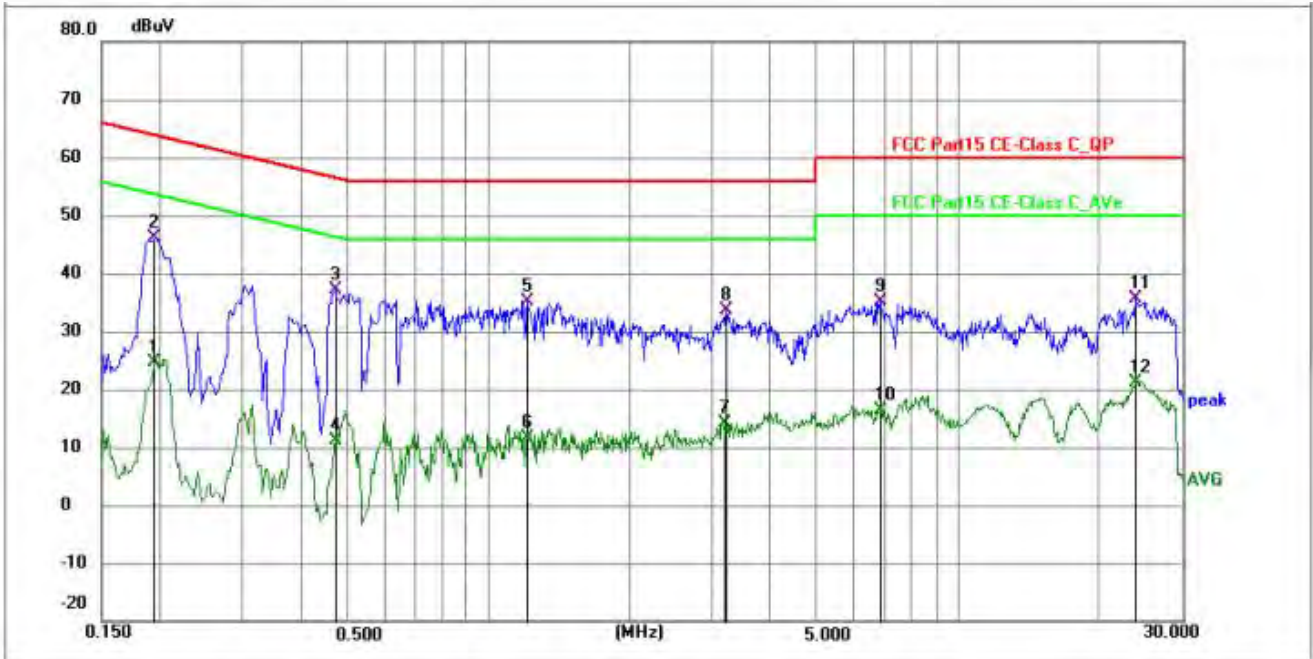
6.1.3 Test Data:

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	0.2006	13.53	10.56	24.09	53.59	-29.50	AVG	P	
2	0.2017	35.98	10.57	46.55	63.54	-16.99	QP	P	
3	0.3113	6.94	10.92	17.86	49.94	-32.08	AVG	P	
4	0.3120	31.95	10.92	42.87	59.92	-17.05	QP	P	
5 *	0.5280	28.94	11.21	40.15	56.00	-15.85	QP	P	
6	0.5322	-5.53	11.22	5.69	46.00	-40.31	AVG	P	
7	3.0660	5.21	10.67	15.88	46.00	-30.12	AVG	P	
8	3.0794	25.81	10.67	36.48	56.00	-19.52	QP	P	
9	5.7975	25.81	10.76	36.57	60.00	-23.43	QP	P	
10	5.7975	7.16	10.76	17.92	50.00	-32.08	AVG	P	
11	24.3105	5.84	11.13	16.97	50.00	-33.03	AVG	P	
12	24.4725	20.04	11.13	31.17	60.00	-28.83	QP	P	

TM1 / Line: Neutral / 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	0.1943	14.09	10.55	24.64	53.85	-29.21	AVG	P	
2 *	0.1949	35.47	10.55	46.02	63.83	-17.81	QP	P	
3	0.4692	25.88	11.20	37.08	56.53	-19.45	QP	P	
4	0.4692	-0.02	11.20	11.18	46.53	-35.35	AVG	P	
5	1.2120	24.43	10.66	35.09	56.00	-20.91	QP	P	
6	1.2120	0.94	10.66	11.60	46.00	-34.40	AVG	P	
7	3.2010	3.44	10.66	14.10	46.00	-31.90	AVG	P	
8	3.2145	22.87	10.66	33.53	56.00	-22.47	QP	P	
9	6.8055	24.43	10.78	35.21	60.00	-24.79	QP	P	
10	6.8055	5.63	10.78	16.41	50.00	-33.59	AVG	P	
11	23.7881	24.48	11.13	35.61	60.00	-24.39	QP	P	
12	23.7881	9.95	11.13	21.08	50.00	-28.92	AVG	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:	<ul style="list-style-type: none"> i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW \geq EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW \geq 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

<p>Test Requirement:</p>	<p>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)</p>
<p>Test Method:</p>	<p>ANSI C63.10-2013, section 12.3</p>
<p>Test Limit:</p>	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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 $11 \text{ dBm} + 10 \log B$, 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.</p>

	<p>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.</p>
<p>Procedure:</p>	<p>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 \geq 3 MHz. d) Number of points in sweep \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq $\text{RBW} / 2$, 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 entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle \geq 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.</p>

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 spectral density

<p>Test Requirement:</p>	<p>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)</p>
<p>Test Method:</p>	<p>ANSI C63.10-2013, section 12.5</p>
<p>Test Limit:</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>

	<p>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.</p>
<p>Procedure:</p>	<p>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, 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 $RBW \geq 1 / T$, where T is defined in 12.2 a). 2) Set $VBW \geq [3 \times RBW]$. 3) Care shall be taken such that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.</p>

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:	<p>U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.</p> <p>U-NII 3, U-NII 4: 47 CFR Part 15.407(e)</p>
Test Method:	<p>ANSI C63.10-2013, section 6.9.3 & 12.4</p> <p>KDB 789033 D02, Clause C.2</p>
Test Limit:	<p>U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.</p> <p>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.</p>
Procedure:	<p>Emission bandwidth:</p> <ol style="list-style-type: none"> 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. <p>Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.</p> <p>Occupied bandwidth:</p> <ol style="list-style-type: none"> 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. 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

	<p>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.</p> <p>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).</p> <p>6 dB emission bandwidth:</p> <ol style="list-style-type: none"> Set RBW = 100 kHz. Set the video bandwidth (VBW) $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize. 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.
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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)

Test Requirement:	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)																																																																																				
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6																																																																																				
Test Limit:	<p>For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <table border="1"> <thead> <tr> <th>MHz</th> <th>MHz</th> <th>MHz</th> <th>GHz</th> </tr> </thead> <tbody> <tr> <td>0.090-0.110</td> <td>16.42-16.423</td> <td>399.9-410</td> <td>4.5-5.15</td> </tr> <tr> <td>¹0.495-0.505</td> <td>16.69475-16.69525</td> <td>608-614</td> <td>5.35-5.46</td> </tr> <tr> <td>2.1735-2.1905</td> <td>16.80425-16.80475</td> <td>960-1240</td> <td>7.25-7.75</td> </tr> <tr> <td>4.125-4.128</td> <td>25.5-25.67</td> <td>1300-1427</td> <td>8.025-8.5</td> </tr> <tr> <td>4.17725-4.17775</td> <td>37.5-38.25</td> <td>1435-1626.5</td> <td>9.0-9.2</td> </tr> <tr> <td>4.20725-4.20775</td> <td>73-74.6</td> <td>1645.5-1646.5</td> <td>9.3-9.5</td> </tr> <tr> <td></td> <td></td> <td>5</td> <td></td> </tr> <tr> <td>6.215-6.218</td> <td>74.8-75.2</td> <td>1660-1710</td> <td>10.6-12.7</td> </tr> <tr> <td>6.26775-6.26825</td> <td>108-121.94</td> <td>1718.8-1722.2</td> <td>13.25-13.4</td> </tr> <tr> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>6.31175-6.31225</td> <td>123-138</td> <td>2200-2300</td> <td>14.47-14.5</td> </tr> <tr> <td>8.291-8.294</td> <td>149.9-150.05</td> <td>2310-2390</td> <td>15.35-16.2</td> </tr> <tr> <td>8.362-8.366</td> <td>156.52475-156.52525</td> <td>2483.5-2500</td> <td>17.7-21.4</td> </tr> <tr> <td></td> <td>25</td> <td></td> <td></td> </tr> <tr> <td>8.37625-8.38675</td> <td>156.7-156.9</td> <td>2690-2900</td> <td>22.01-23.12</td> </tr> <tr> <td>8.41425-8.41475</td> <td>162.0125-167.17</td> <td>3260-3267</td> <td>23.6-24.0</td> </tr> <tr> <td>12.29-12.293</td> <td>167.72-173.2</td> <td>3332-3339</td> <td>31.2-31.8</td> </tr> <tr> <td>12.51975-12.52025</td> <td>240-285</td> <td>3345.8-3358</td> <td>36.43-36.5</td> </tr> <tr> <td>12.57675-12.57725</td> <td>322-335.4</td> <td>3600-4400</td> <td>(²)</td> </tr> <tr> <td>13.36-13.41</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.</p> <p>²Above 38.6</p> <p>The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.</p> <p>Except as provided elsewhere in this subpart, the emissions from an intentional</p>	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	1645.5-1646.5	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	1718.8-1722.2	13.25-13.4			2		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	156.52475-156.52525	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			
MHz	MHz	MHz	GHz																																																																																		
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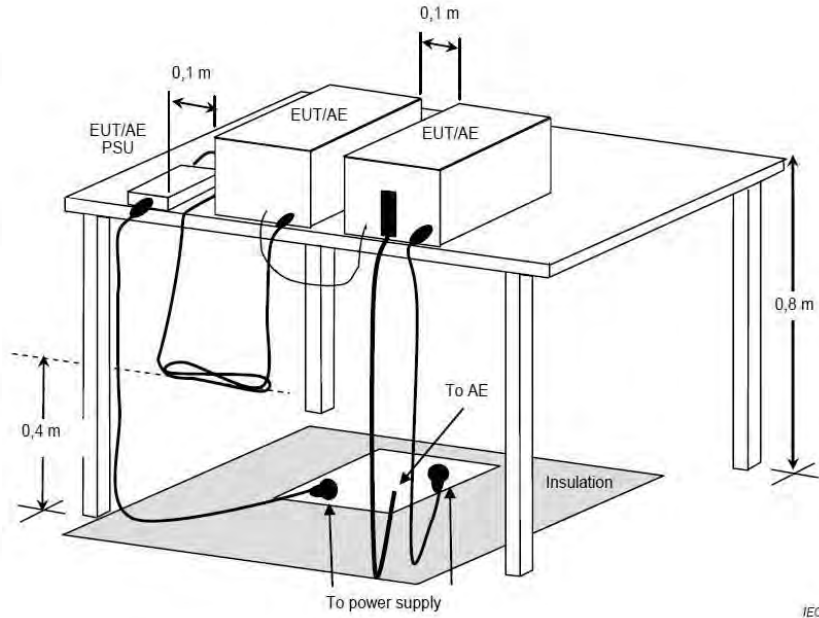
	radiator shall not exceed the field strength levels specified in the following table:		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
Procedure:	<p>Above 1GHz:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>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.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <ol style="list-style-type: none"> Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 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. 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. 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:

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_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5021.600	71.39	-27.36	44.03	74.00	-29.97	peak	P
2 *	5150.000	72.33	-27.24	45.09	74.00	-28.91	peak	P

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 *	5032.400	72.55	-27.34	45.21	74.00	-28.79	peak	P
2	5150.000	71.80	-27.24	44.56	74.00	-29.44	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	40.21	4.63	44.84	125.20	-80.36	peak	P
2	5460.000	39.32	4.79	44.11	125.20	-81.09	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	37.05	6.37	43.42	125.20	-81.78	peak	P
2 *	5460.000	38.53	6.57	45.10	125.20	-80.10	peak	P

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	72.62	-26.46	46.16	125.20	-79.04	peak	P
2	5700.000	72.96	-26.30	46.66	125.20	-78.54	peak	P
3 *	5720.000	75.50	-26.24	49.26	125.20	-75.94	peak	P

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	73.35	-26.46	46.89	125.20	-78.31	peak	P
2 *	5700.000	73.39	-26.30	47.09	125.20	-78.11	peak	P
3	5720.000	73.02	-26.24	46.78	125.20	-78.42	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	70.80	-25.82	44.98	74.00	-29.02	peak	P
2	5875.000	70.75	-25.73	45.02	74.00	-28.98	peak	P
3 *	5925.000	71.18	-25.57	45.61	74.00	-28.39	peak	P

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	70.30	-25.82	44.48	74.00	-29.52	peak	P
2 *	5875.000	70.69	-25.73	44.96	74.00	-29.04	peak	P
3	5925.000	70.41	-25.57	44.84	74.00	-29.16	peak	P

6.7 Undesirable emission limits (below 1GHz)

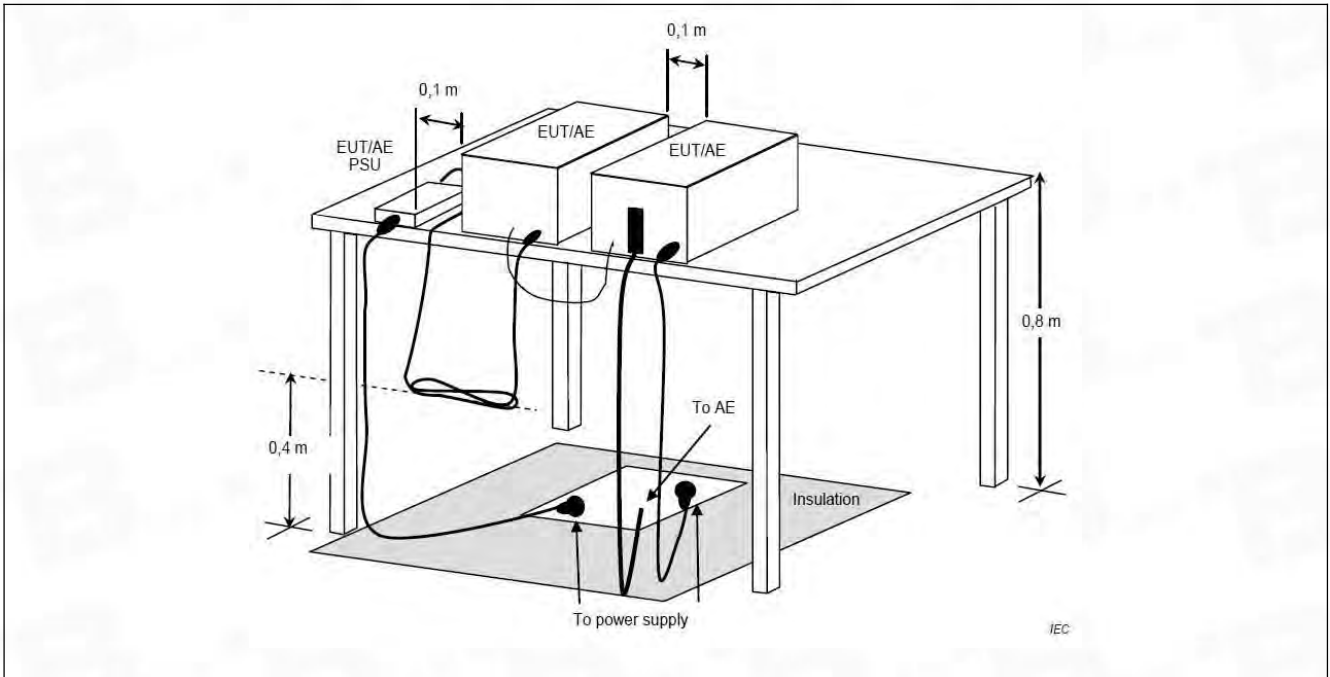
Test Requirement:	47 CFR Part 15.407(b)(9)																								
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6																								
Test Limit:	<p>Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.</p> <p>Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Field strength (microvolts/meter)</th> <th>Measurement distance (meters)</th> </tr> </thead> <tbody> <tr> <td>0.009-0.490</td> <td>2400/F(kHz)</td> <td>300</td> </tr> <tr> <td>0.490-1.705</td> <td>24000/F(kHz)</td> <td>30</td> </tr> <tr> <td>1.705-30.0</td> <td>30</td> <td>30</td> </tr> <tr> <td>30-88</td> <td>100 **</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150 **</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200 **</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>3</td> </tr> </tbody> </table>	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
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																							
Procedure:	<p>Below 1GHz:</p> <ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 quasi-peak method as specified and then reported in a data sheet. Test the EUT in the lowest channel, the middle channel, the Highest channel. 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. Repeat above procedures until all frequencies measured was complete. <p>Remark:</p> <ol style="list-style-type: none"> Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor Scan from 9kHz to 30MHz, the disturbance below 30MHz 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. <p>Above 1GHz:</p>																								

	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>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.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <ol style="list-style-type: none"> Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 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. 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. 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.
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6.7.1 E.U.T. Operation:

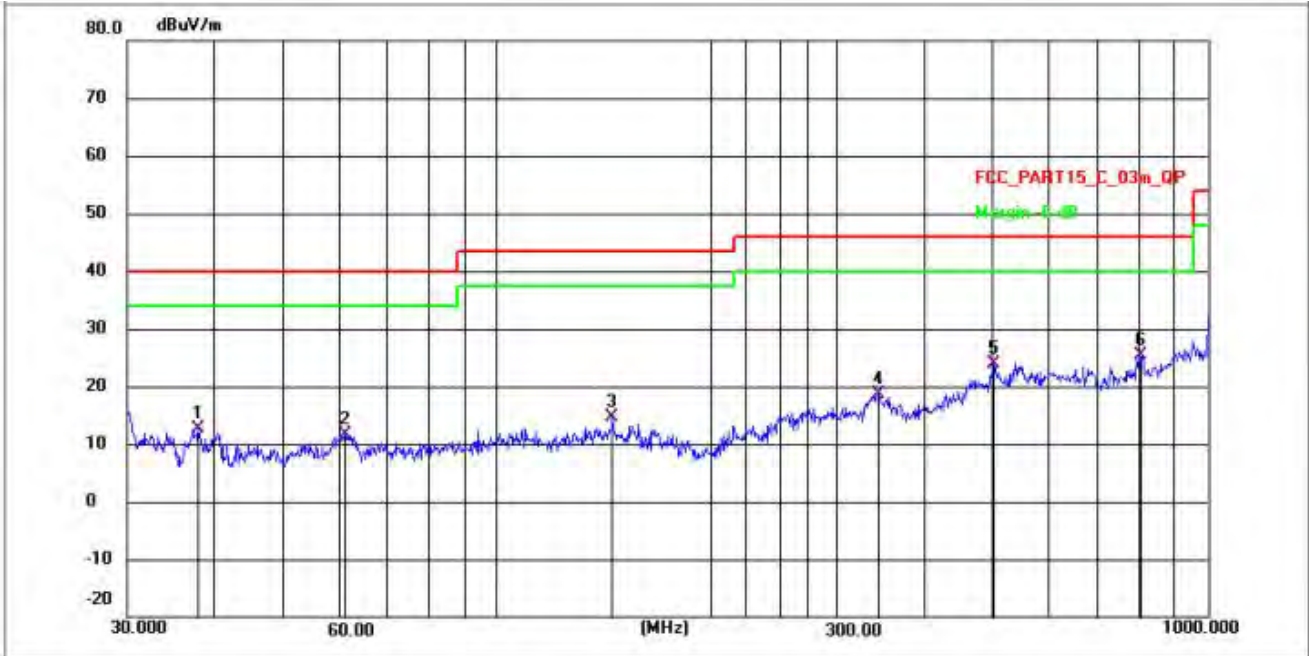
Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.7.2 Test Setup Diagram:



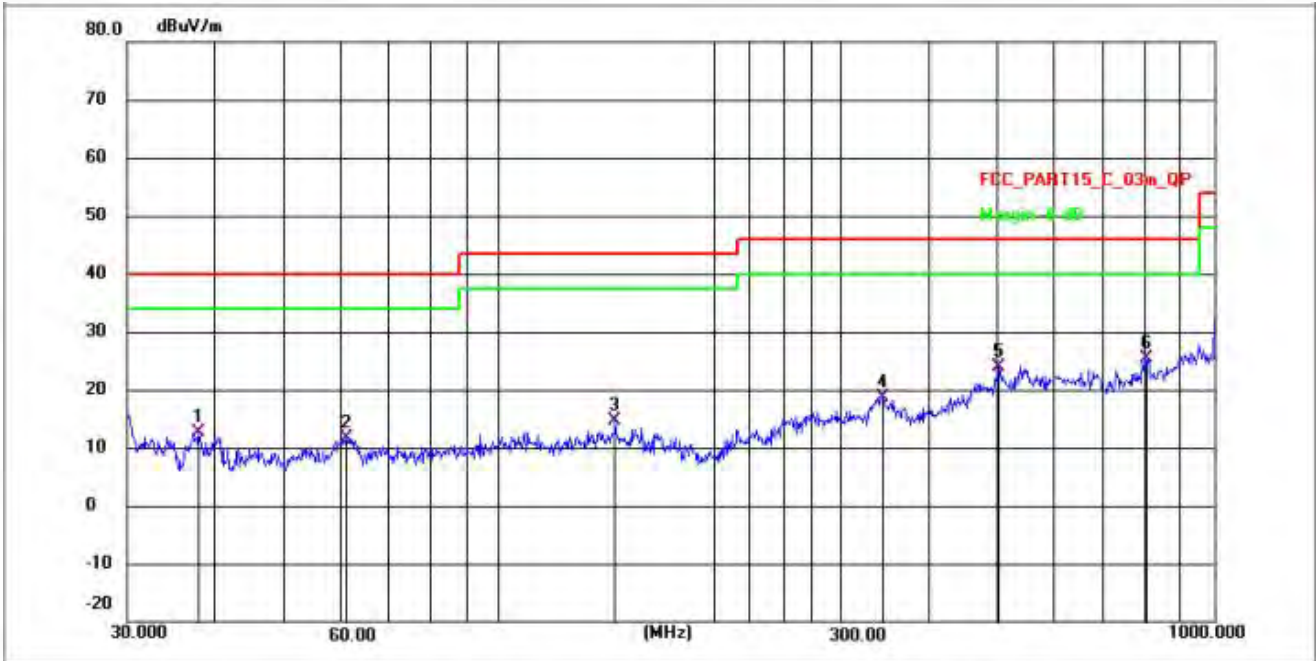
6.7.3 Test Data:

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	37.8121	30.99	-18.43	12.56	40.00	-27.44	QP	P
2	60.9176	29.88	-18.18	11.70	40.00	-28.30	QP	P
3	144.8418	29.31	-14.72	14.59	43.50	-28.91	QP	P
4	343.7822	34.47	-15.95	18.52	46.00	-27.48	QP	P
5	501.1790	35.19	-11.37	23.82	46.00	-22.18	QP	P
6 *	808.8459	48.92	-23.57	25.35	46.00	-20.65	QP	P

TM1 / Polarization: Vertical / 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	37.8121	30.99	-18.43	12.56	40.00	-27.44	QP	P
2	60.9176	29.88	-18.18	11.70	40.00	-28.30	QP	P
3	144.8418	42.42	-27.83	14.59	43.50	-28.91	QP	P
4	343.7822	43.60	-25.08	18.52	46.00	-27.48	QP	P
5	501.1790	44.97	-21.15	23.82	46.00	-22.18	QP	P
6 *	808.8459	48.92	-23.57	25.35	46.00	-20.65	QP	P

6.8 Undesirable emission limits (above 1GHz)

Test Requirement:	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)																																																																											
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6																																																																											
Test Limit:	<p>For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <table border="1" data-bbox="470 898 1348 1541"> <thead> <tr> <th>MHz</th> <th>MHz</th> <th>MHz</th> <th>GHz</th> </tr> </thead> <tbody> <tr> <td>0.090-0.110</td> <td>16.42-16.423</td> <td>399.9-410</td> <td>4.5-5.15</td> </tr> <tr> <td>¹0.495-0.505</td> <td>16.69475-16.69525</td> <td>608-614</td> <td>5.35-5.46</td> </tr> <tr> <td>2.1735-2.1905</td> <td>16.80425-16.80475</td> <td>960-1240</td> <td>7.25-7.75</td> </tr> <tr> <td>4.125-4.128</td> <td>25.5-25.67</td> <td>1300-1427</td> <td>8.025-8.5</td> </tr> <tr> <td>4.17725-4.17775</td> <td>37.5-38.25</td> <td>1435-1626.5</td> <td>9.0-9.2</td> </tr> <tr> <td>4.20725-4.20775</td> <td>73-74.6</td> <td>1645.5-1646.5</td> <td>9.3-9.5</td> </tr> <tr> <td>6.215-6.218</td> <td>74.8-75.2</td> <td>1660-1710</td> <td>10.6-12.7</td> </tr> <tr> <td>6.26775-6.26825</td> <td>108-121.94</td> <td>1718.8-1722.2</td> <td>13.25-13.4</td> </tr> <tr> <td>6.31175-6.31225</td> <td>123-138</td> <td>2200-2300</td> <td>14.47-14.5</td> </tr> <tr> <td>8.291-8.294</td> <td>149.9-150.05</td> <td>2310-2390</td> <td>15.35-16.2</td> </tr> <tr> <td>8.362-8.366</td> <td>156.52475-156.52525</td> <td>2483.5-2500</td> <td>17.7-21.4</td> </tr> <tr> <td>8.37625-8.38675</td> <td>156.7-156.9</td> <td>2690-2900</td> <td>22.01-23.12</td> </tr> <tr> <td>8.41425-8.41475</td> <td>162.0125-167.17</td> <td>3260-3267</td> <td>23.6-24.0</td> </tr> <tr> <td>12.29-12.293</td> <td>167.72-173.2</td> <td>3332-3339</td> <td>31.2-31.8</td> </tr> <tr> <td>12.51975-12.52025</td> <td>240-285</td> <td>3345.8-3358</td> <td>36.43-36.5</td> </tr> <tr> <td>12.57675-12.57725</td> <td>322-335.4</td> <td>3600-4400</td> <td>(²)</td> </tr> <tr> <td>13.36-13.41</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6</p> <p>The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.</p> <p>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:</p> <table border="1" data-bbox="470 1973 1348 2002"> <thead> <tr> <th>Frequency (MHz)</th> <th>Field strength</th> <th>Measurement</th> </tr> </thead> </table>	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	1645.5-1646.5	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	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	156.52475-156.52525	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	12.57675-12.57725	322-335.4	3600-4400	(²)	13.36-13.41				Frequency (MHz)	Field strength	Measurement
MHz	MHz	MHz	GHz																																																																									
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15																																																																									
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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																																																																									
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6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4																																																																									
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	156.52475-156.52525	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																																																																									
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13.36-13.41																																																																												
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:	<p>Above 1GHz:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>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.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <ol style="list-style-type: none"> Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 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. 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. 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.
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6.8.1 E.U.T. Operation:

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

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	2246.344	68.62	-30.65	37.97	74.00	-36.03	peak	P
2	3159.355	72.44	-29.37	43.07	74.00	-30.93	peak	P
3	3629.540	72.29	-29.04	43.25	74.00	-30.75	peak	P
4	6395.654	74.30	-25.37	48.93	74.00	-25.07	peak	P
5	6974.983	76.03	-24.96	51.07	74.00	-22.93	peak	P
6 *	7432.914	78.07	-24.80	53.27	74.00	-20.73	peak	P

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	2132.462	68.97	-30.78	38.19	74.00	-35.81	peak	P
2	2565.777	66.57	-30.25	36.32	74.00	-37.68	peak	P
3	4417.841	72.07	-28.82	43.25	74.00	-30.75	peak	P
4	6285.695	74.23	-25.35	48.88	74.00	-25.12	peak	P
5	6815.551	75.83	-25.10	50.73	74.00	-23.27	peak	P
6 *	7056.092	75.87	-24.91	50.96	74.00	-23.04	peak	P

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	1231.345	66.03	-30.24	35.79	74.00	-38.21	peak	P
2	2120.171	68.12	-30.79	37.33	74.00	-36.67	peak	P
3	2421.661	68.52	-30.46	38.06	74.00	-35.94	peak	P
4	5932.638	73.60	-25.55	48.05	74.00	-25.95	peak	P
5 *	6395.654	76.31	-25.37	50.94	74.00	-23.06	peak	P
6	6737.206	75.00	-25.17	49.83	74.00	-24.17	peak	P

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	1289.627	66.64	-30.55	36.09	74.00	-37.91	peak	P
2	2507.129	67.40	-30.35	37.05	74.00	-36.95	peak	P
3	3425.674	72.47	-29.12	43.35	74.00	-30.65	peak	P
4	5864.443	72.98	-25.77	47.21	74.00	-26.79	peak	P
5	6177.627	74.63	-25.35	49.28	74.00	-24.72	peak	P
6 *	6621.376	74.79	-25.27	49.52	74.00	-24.48	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	1382.262	64.33	-31.07	33.26	74.00	-40.74	peak	P
2	2656.330	65.98	-30.10	35.88	74.00	-38.12	peak	P
3	4242.641	71.56	-28.90	42.66	74.00	-31.34	peak	P
4	6177.627	74.70	-25.35	49.35	74.00	-24.65	peak	P
5	6776.265	75.03	-25.13	49.90	74.00	-24.10	peak	P
6 *	7476.006	77.50	-24.79	52.71	74.00	-21.29	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	2144.825	68.06	-30.77	37.29	74.00	-36.71	peak	P
2	2913.740	66.82	-29.66	37.16	74.00	-36.84	peak	P
3	3445.535	72.43	-29.10	43.33	74.00	-30.67	peak	P
4	5932.638	74.05	-25.55	48.50	74.00	-25.50	peak	P
5	6507.536	75.15	-25.38	49.77	74.00	-24.23	peak	P
6 *	7096.999	76.26	-24.90	51.36	74.00	-22.64	peak	P

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	3270.858	72.87	-29.27	43.60	74.00	-30.40	peak	P
2	4027.554	72.91	-28.99	43.92	74.00	-30.08	peak	P
3	5046.062	72.54	-27.33	45.21	74.00	-28.79	peak	P
4	6285.695	74.36	-25.35	49.01	74.00	-24.99	peak	P
5	6776.265	75.72	-25.13	50.59	74.00	-23.41	peak	P
6 *	8106.200	78.48	-25.49	52.99	74.00	-21.01	peak	P

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	4004.339	72.52	-29.00	43.52	74.00	-30.48	peak	P
2	4874.043	72.70	-27.73	44.97	74.00	-29.03	peak	P
3	5315.541	74.18	-27.11	47.07	125.20	-78.13	peak	P
4	6395.654	75.26	-25.37	49.89	74.00	-24.11	peak	P
5	6934.778	75.40	-24.99	50.41	74.00	-23.59	peak	P
6 *	7263.015	76.36	-24.85	51.51	74.00	-22.49	peak	P

UNII-3_20M_5785MHz_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3935.493	71.95	-29.01	42.94	74.00	-31.06	peak	P
2	4547.396	72.28	-28.66	43.62	74.00	-30.38	peak	P
3	5104.741	72.68	-27.28	45.40	74.00	-28.60	peak	P
4	6213.442	74.47	-25.36	49.11	74.00	-24.89	peak	P
5	6737.206	74.83	-25.17	49.66	74.00	-24.34	peak	P
6 *	7015.420	75.56	-24.93	50.63	74.00	-23.37	peak	P

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	4027.554	72.06	-28.99	43.07	74.00	-30.93	peak	P
2	4469.214	72.13	-28.79	43.34	74.00	-30.66	peak	P
3	4845.948	72.84	-27.81	45.03	74.00	-28.97	peak	P
4	6249.464	74.34	-25.36	48.98	74.00	-25.02	peak	P
5	6621.376	74.54	-25.27	49.27	74.00	-24.73	peak	P
6 *	7096.999	76.23	-24.90	51.33	74.00	-22.67	peak	P

UNII-3_20M_5825MHz_Horizontal

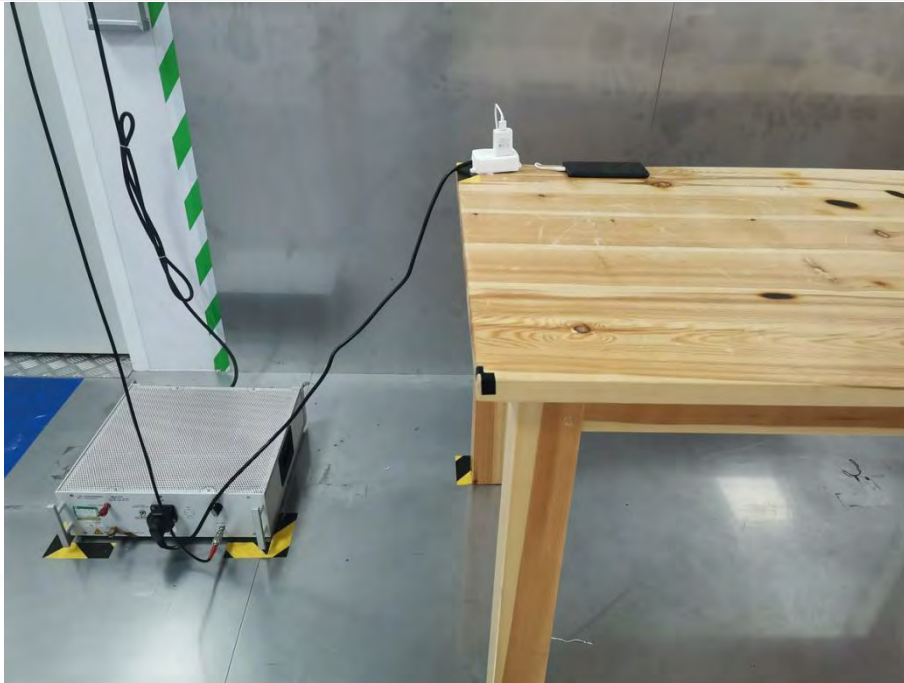
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3912.809	72.34	-29.01	43.33	74.00	-30.67	peak	P
2	4521.185	72.63	-28.72	43.91	74.00	-30.09	peak	P
3	5104.741	73.40	-27.28	46.12	74.00	-27.88	peak	P
4	6358.789	75.07	-25.36	49.71	74.00	-24.29	peak	P
5	6545.263	75.38	-25.34	50.04	74.00	-23.96	peak	P
6 *	7056.092	76.54	-24.91	51.63	74.00	-22.37	peak	P

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	3845.537	73.25	-29.02	44.23	74.00	-29.77	peak	P
2	4417.841	71.46	-28.82	42.64	74.00	-31.36	peak	P
3	4653.771	72.87	-28.35	44.52	74.00	-29.48	peak	P
4	6177.627	73.94	-25.35	48.59	74.00	-25.41	peak	P
5	6698.373	75.01	-25.20	49.81	74.00	-24.19	peak	P
6 *	7056.092	76.64	-24.91	51.73	74.00	-22.27	peak	P

7 Test Setup Photos

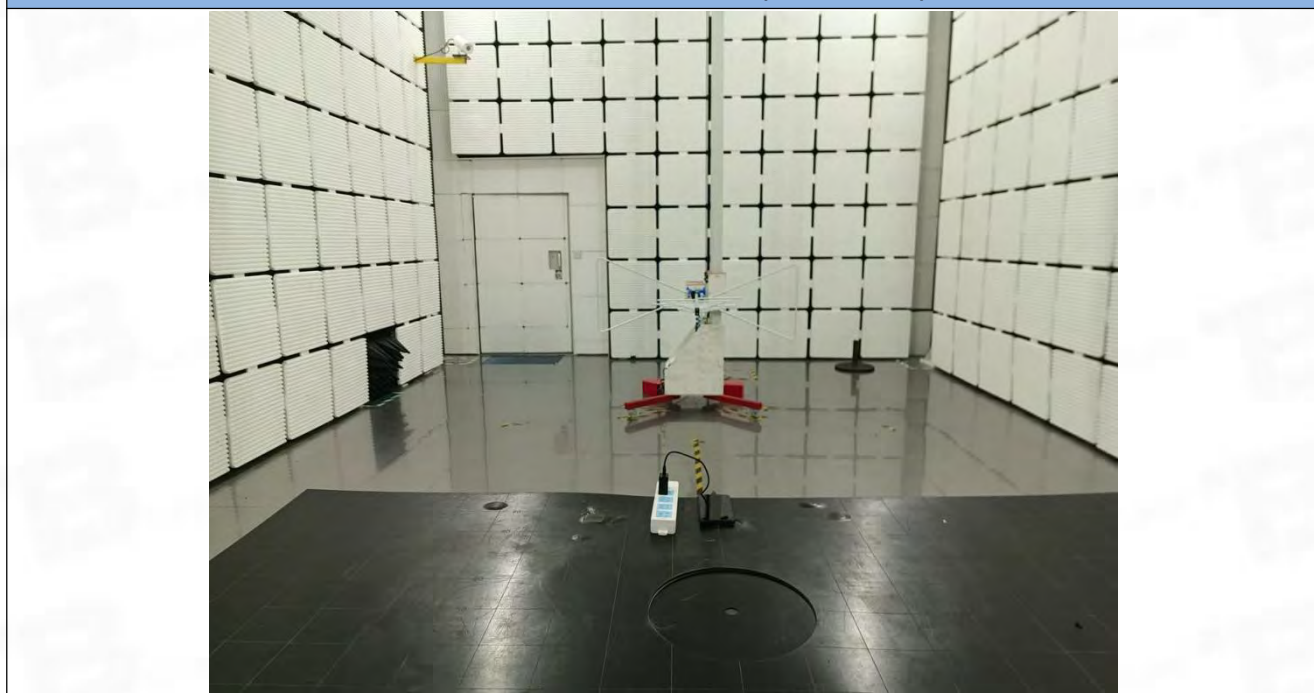
Conducted Emission at AC power line



Band edge emissions (Radiated)
Undesirable emission limits (above 1GHz)



Undesirable emission limits (below 1GHz)



8 EUT Constructional Details (EUT Photos)

Please refer to the report No.BTF231031R00801

Appendix

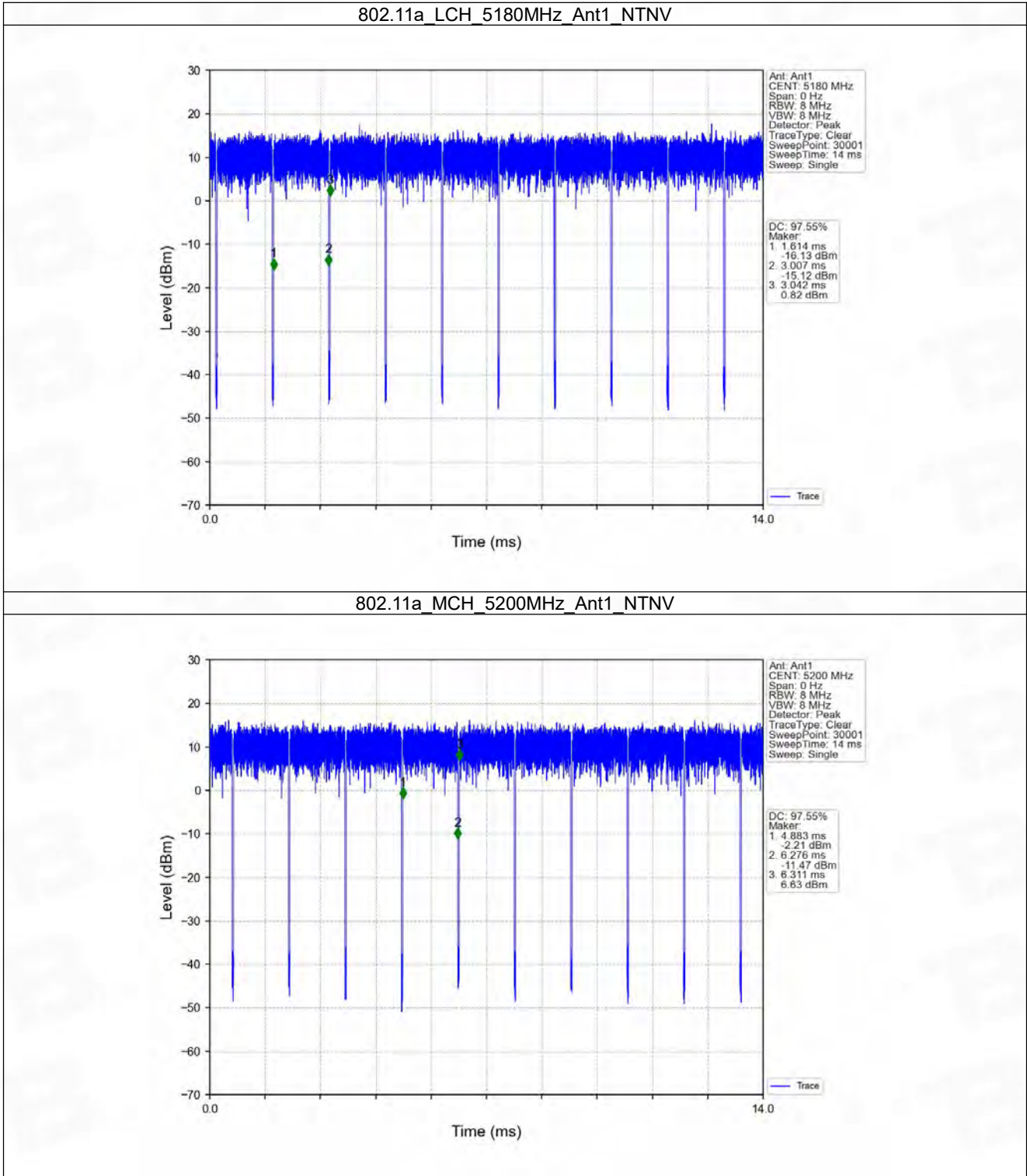
1. Duty Cycle

1.1 Ant1

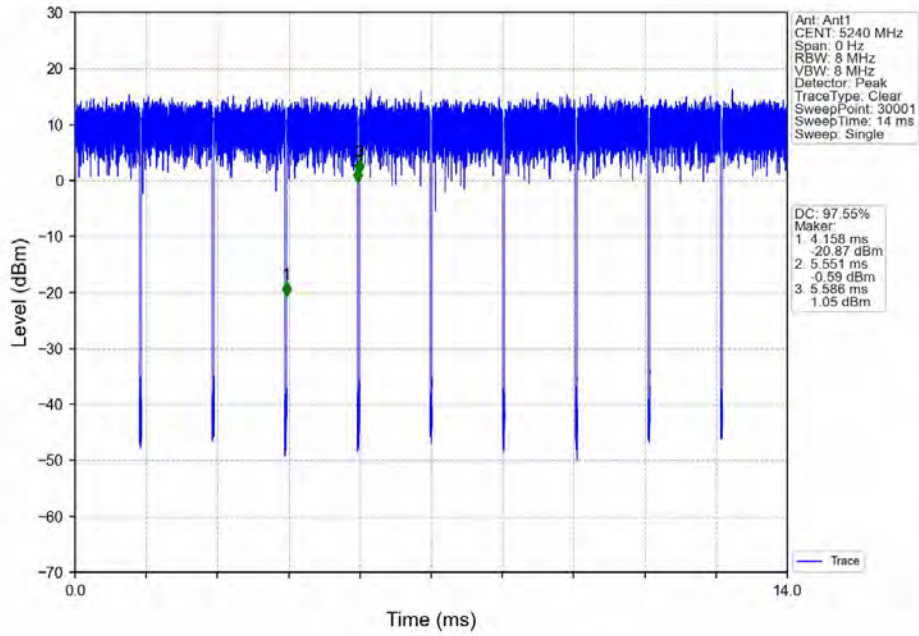
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.393	1.428	97.55	0.11	0.06
		5200	1.393	1.428	97.55	0.11	0.07
		5240	1.393	1.428	97.55	0.11	0.13
		5745	1.392	1.428	97.48	0.11	0.03
		5785	1.392	1.428	97.48	0.11	0.00
		5825	1.392	1.428	97.48	0.11	0.07
802.11n (HT20)	SISO	5180	1.300	1.336	97.31	0.12	0.03
		5200	1.300	1.335	97.38	0.12	0.07
		5240	1.300	1.335	97.38	0.12	0.07
		5745	1.300	1.336	97.31	0.12	0.03
		5785	1.300	1.335	97.38	0.12	0.03
802.11n (HT40)	SISO	5190	0.648	0.683	94.88	0.23	0.03
		5230	0.648	0.683	94.88	0.23	0.03
		5755	0.648	0.683	94.88	0.23	0.04
		5795	0.648	0.683	94.88	0.23	0.03
		5825	1.300	1.336	97.31	0.12	0.03
802.11ac (VHT20)	SISO	5180	0.184	0.220	83.64	0.78	0.07
		5200	0.184	0.220	83.64	0.78	0.06
		5240	0.184	0.220	83.64	0.78	0.07
		5745	0.185	0.220	84.09	0.75	0.12
		5785	0.184	0.220	83.64	0.78	0.09
		5825	0.185	0.220	84.09	0.75	0.12
802.11ac (VHT40)	SISO	5190	0.109	0.143	76.22	1.18	0.09
		5230	0.000	0.035	0.00	0.00	75.56
		5755	0.652	0.687	94.91	0.23	0.07
		5795	0.108	0.143	75.52	1.22	0.07
802.11ac (VHT80)	SISO	5210	0.325	0.359	90.53	0.43	0.11
		5775	0.072	0.142	50.70	2.95	7.45

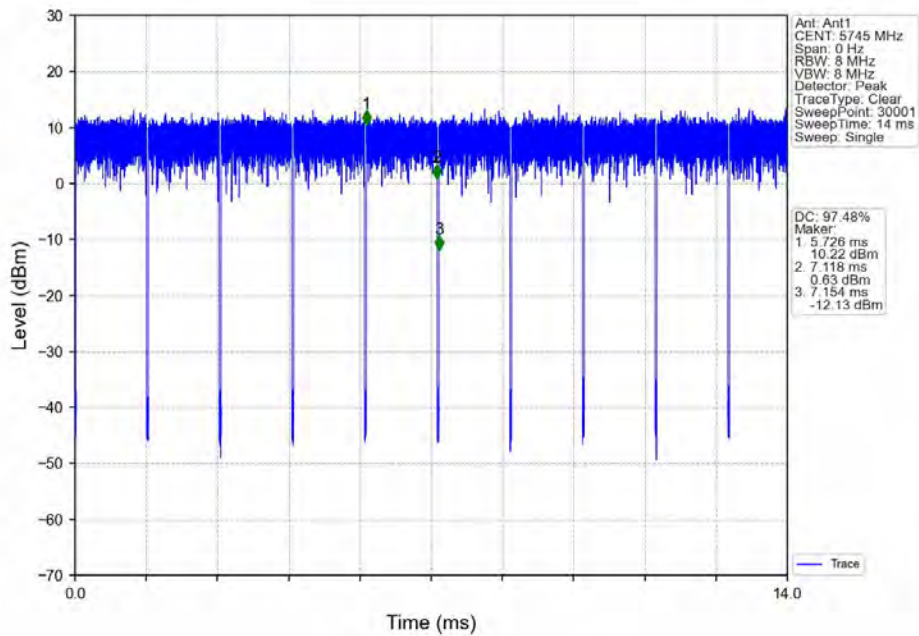
1.1.2 Test Graph

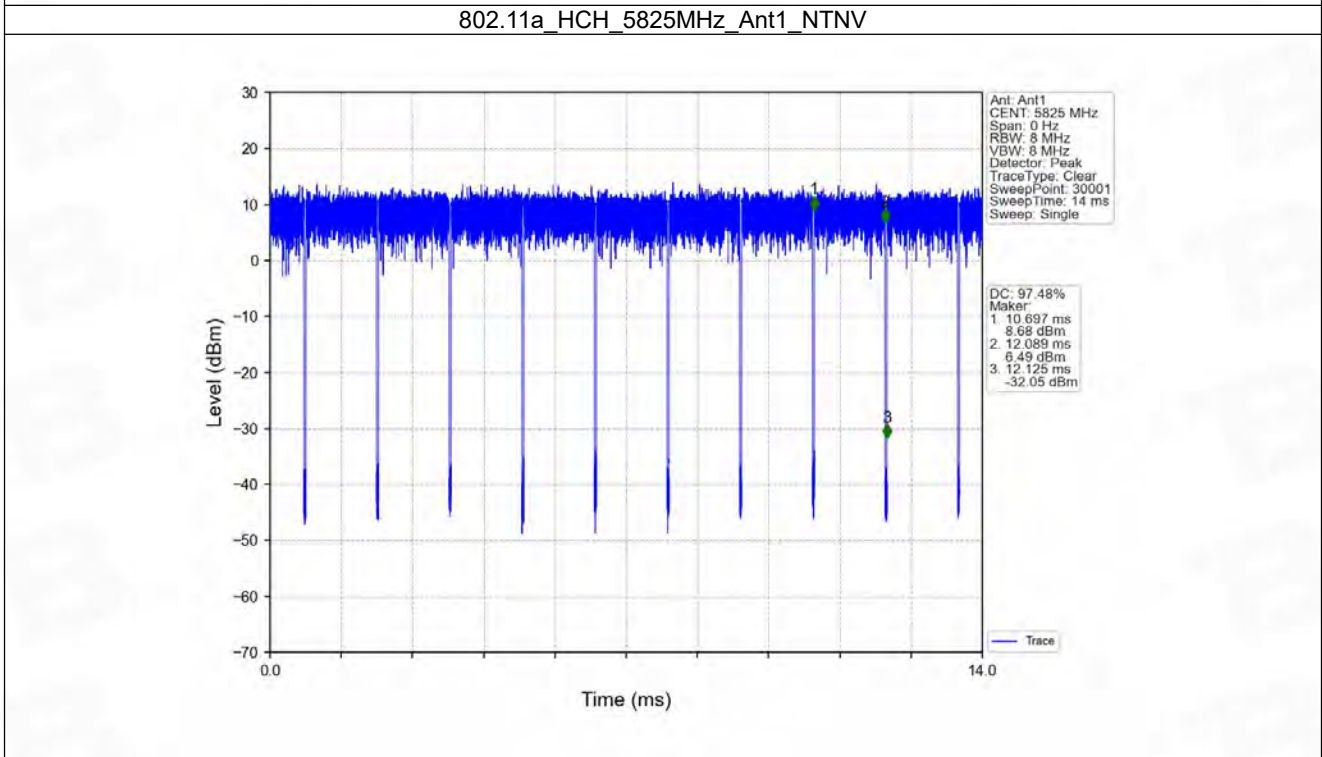
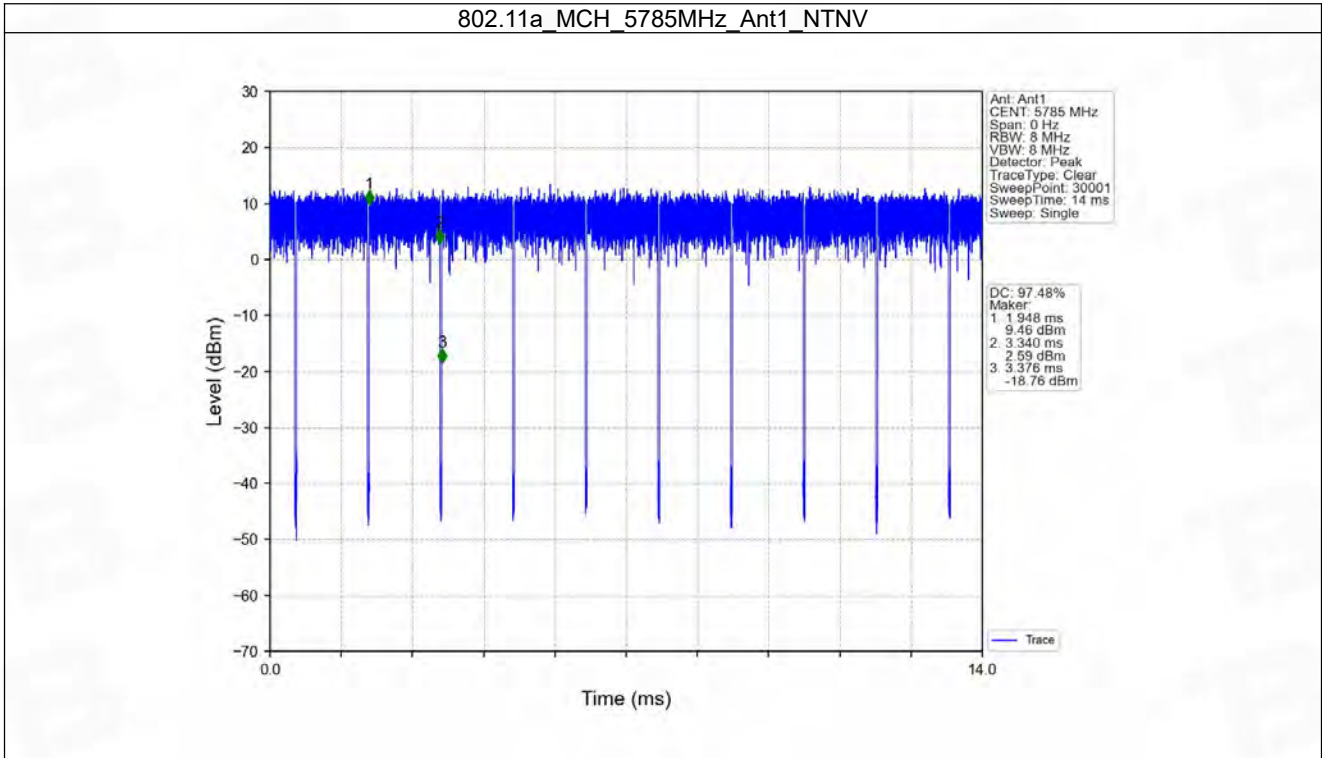


802.11a_HCH_5240MHz_Ant1_NTNV

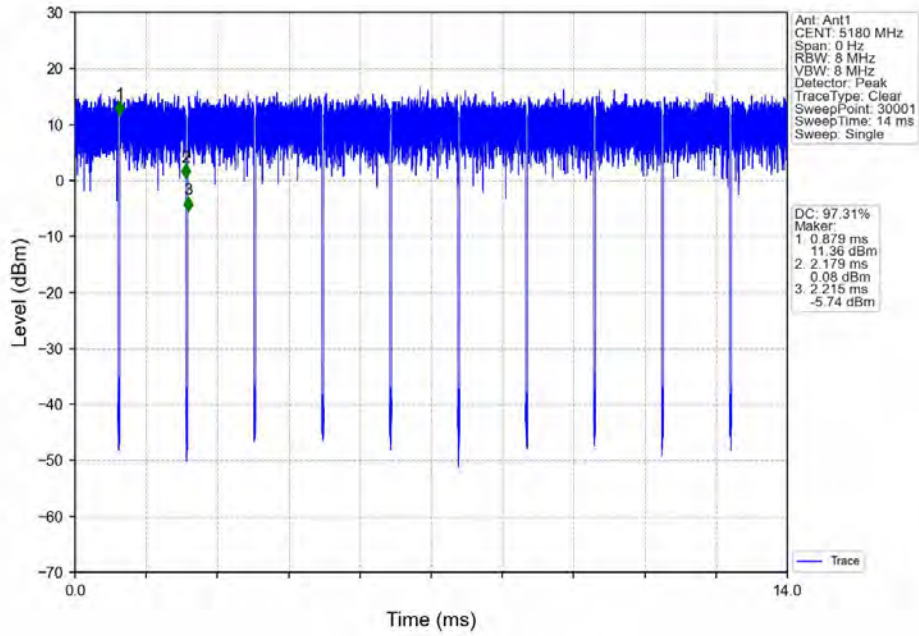


802.11a_LCH_5745MHz_Ant1_NTNV

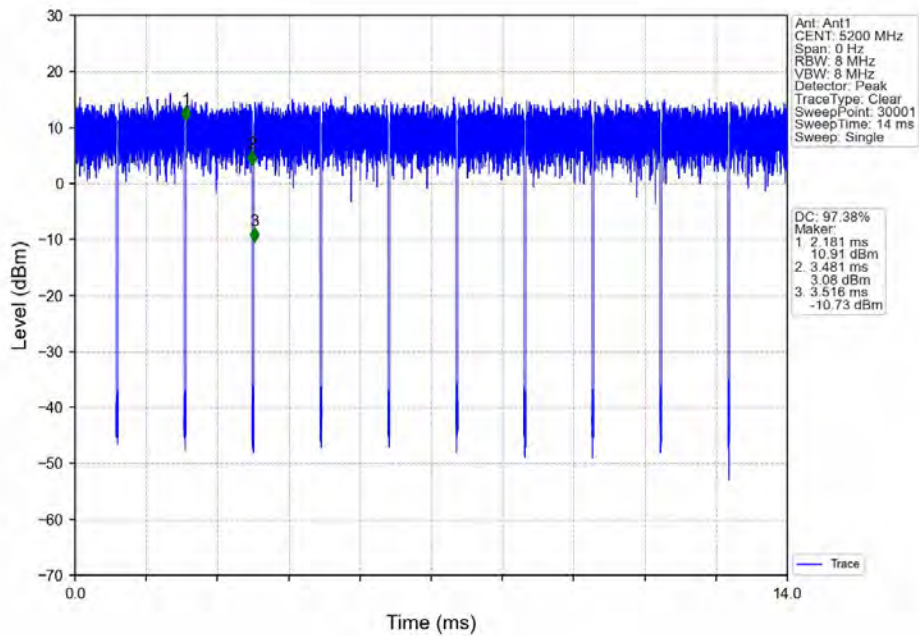




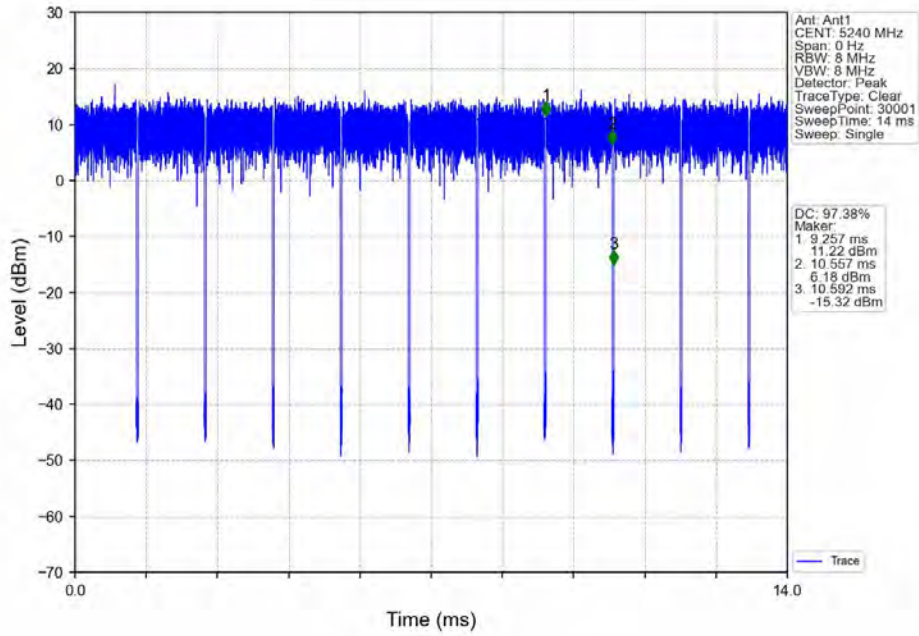
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



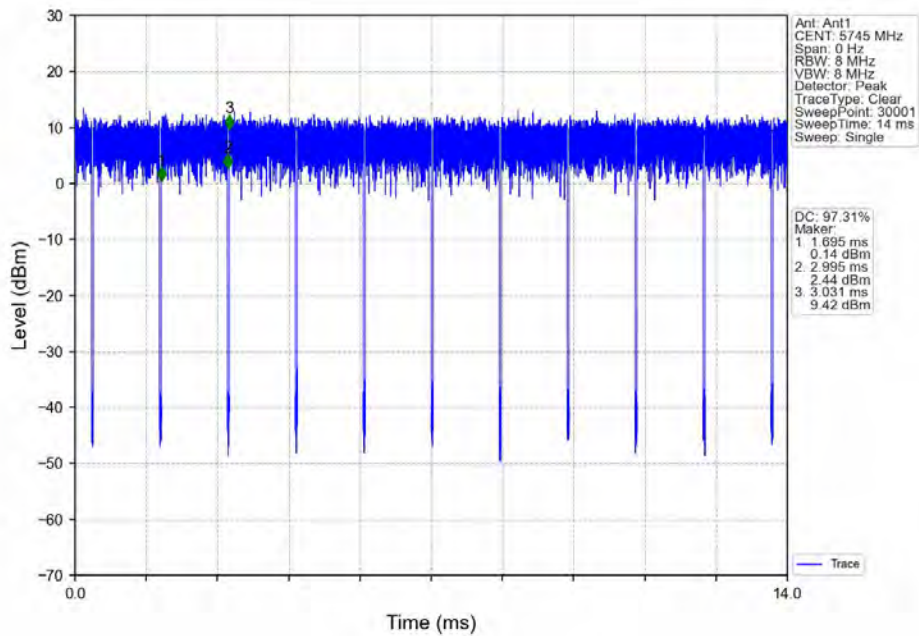
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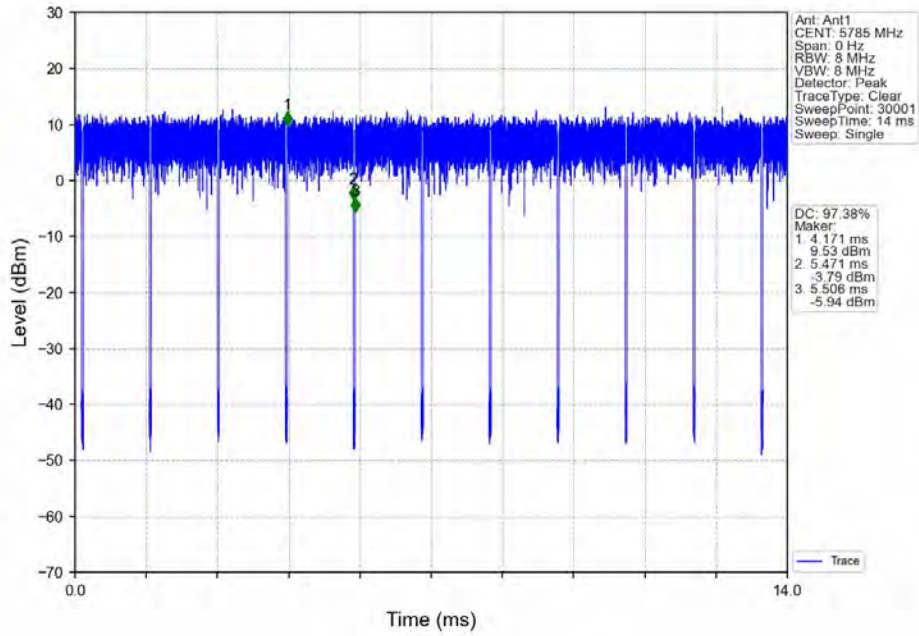
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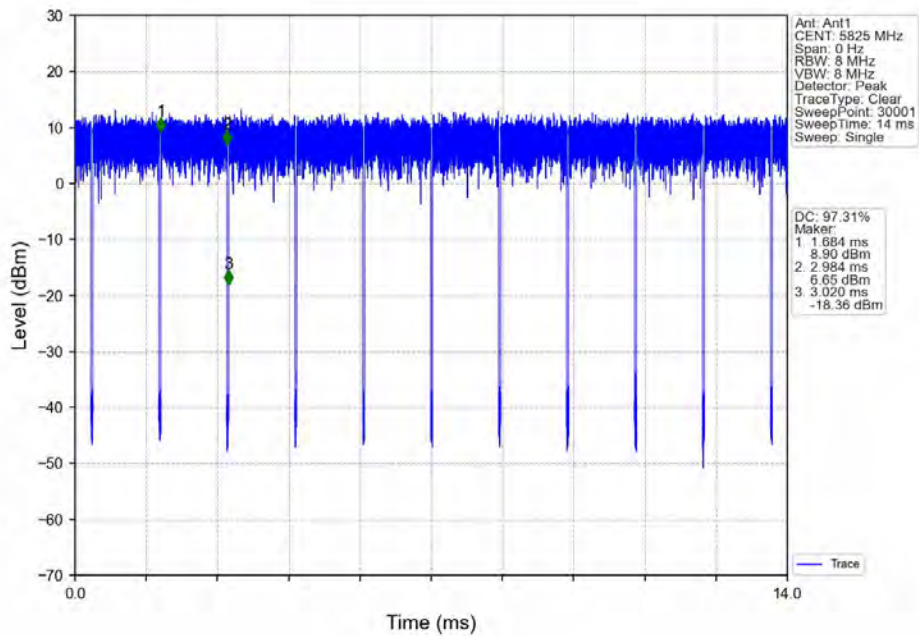
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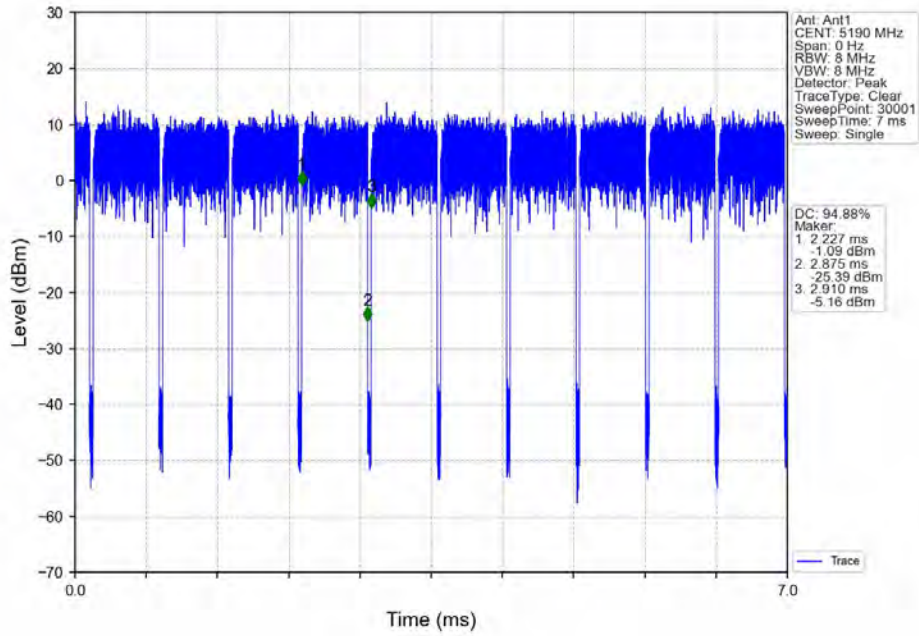
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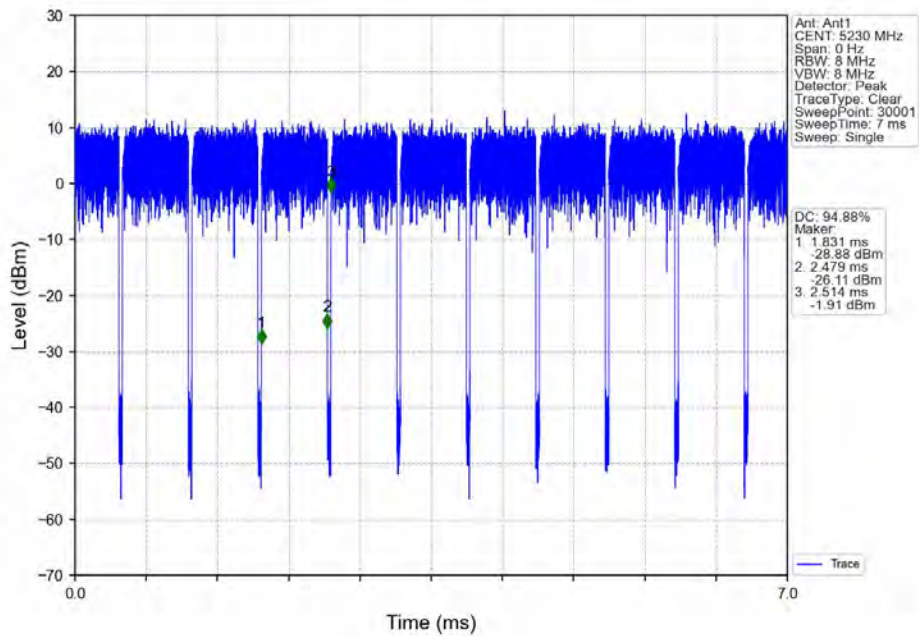
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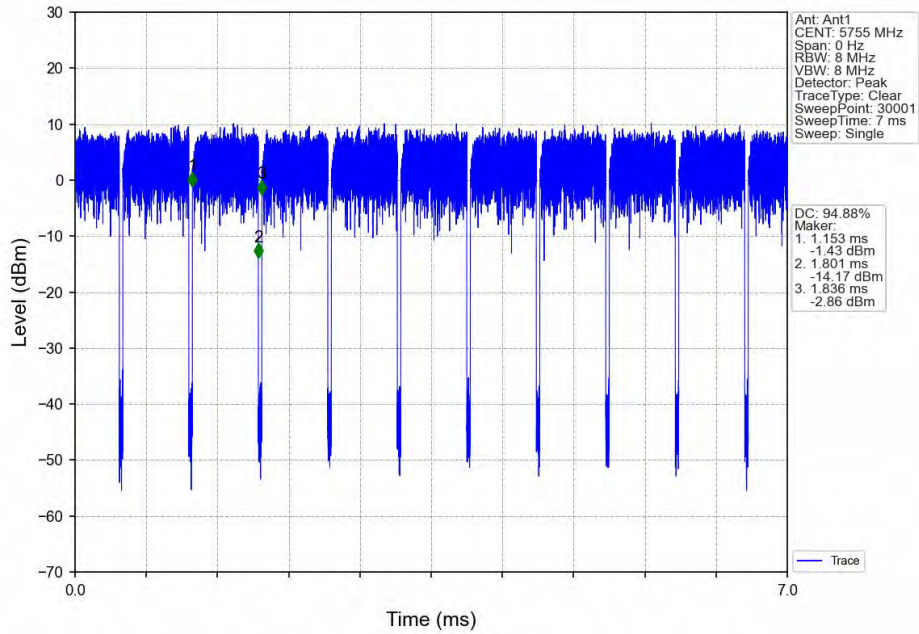
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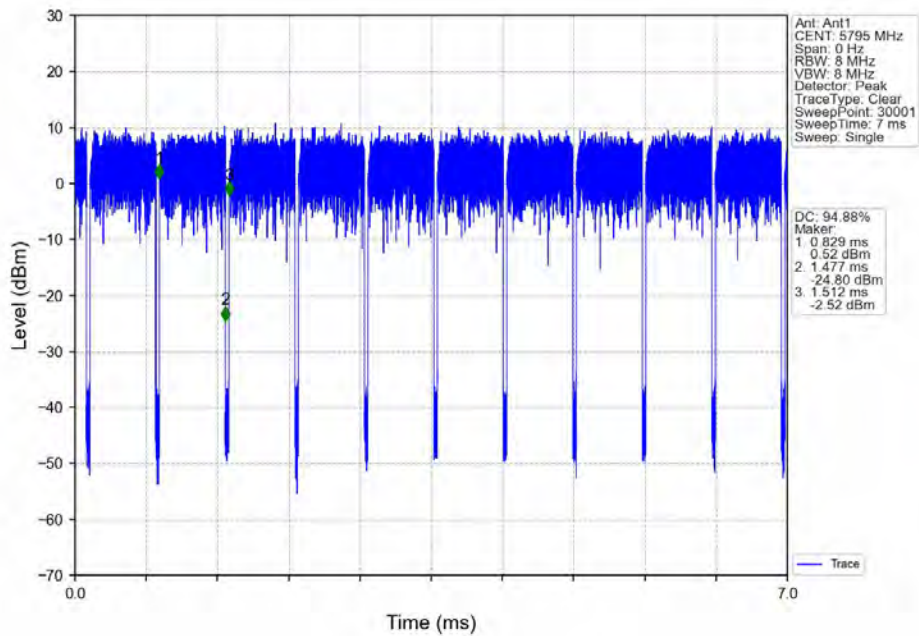
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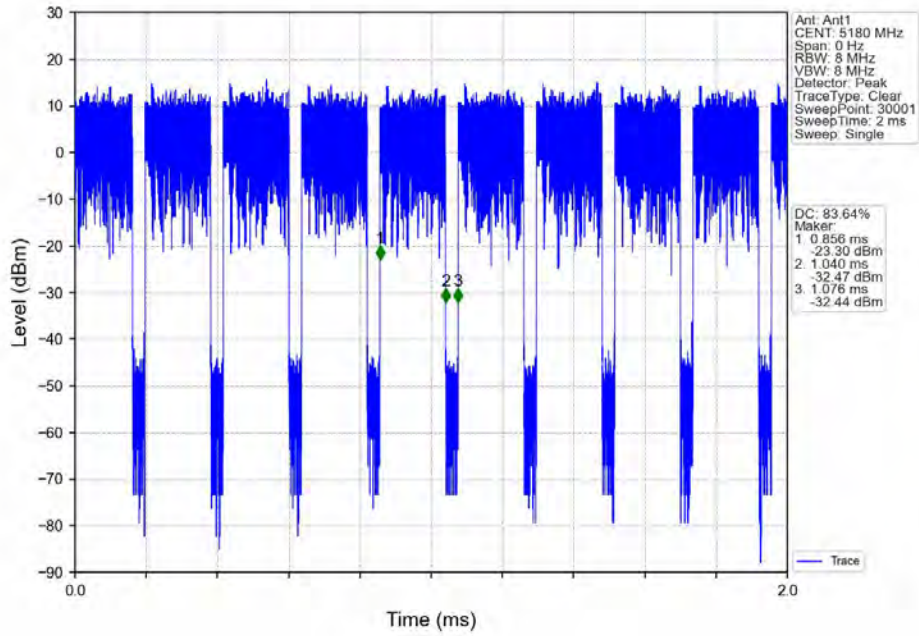
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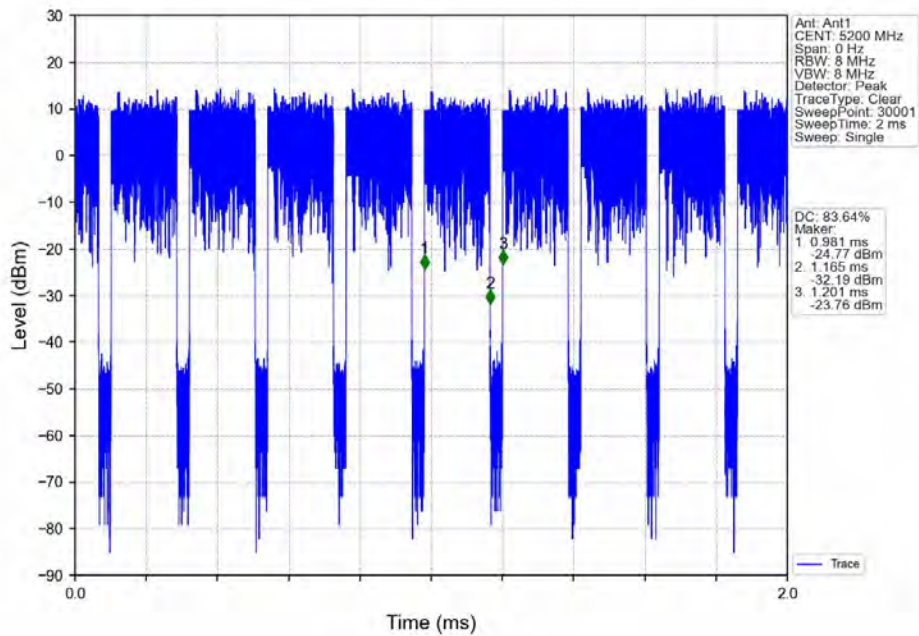
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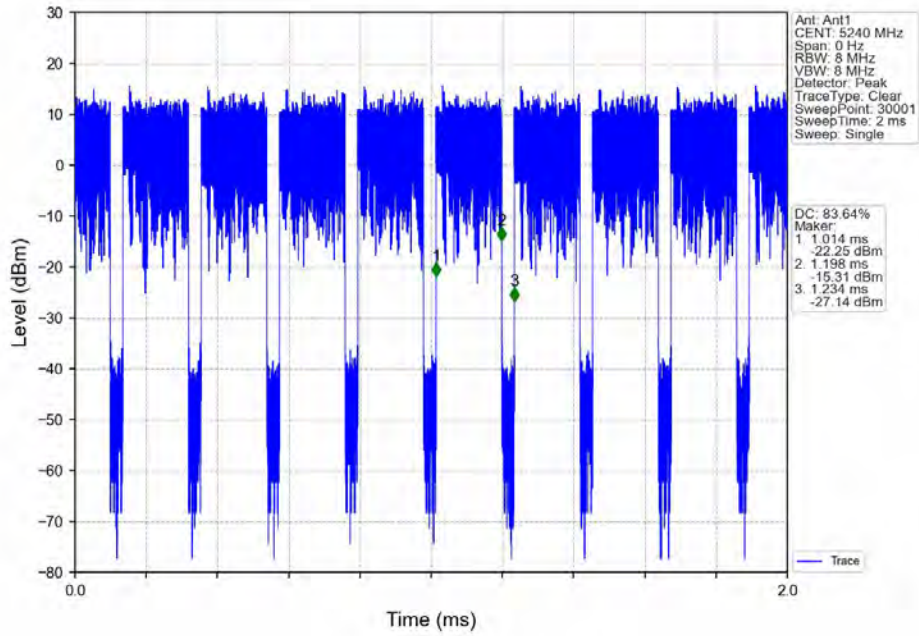
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



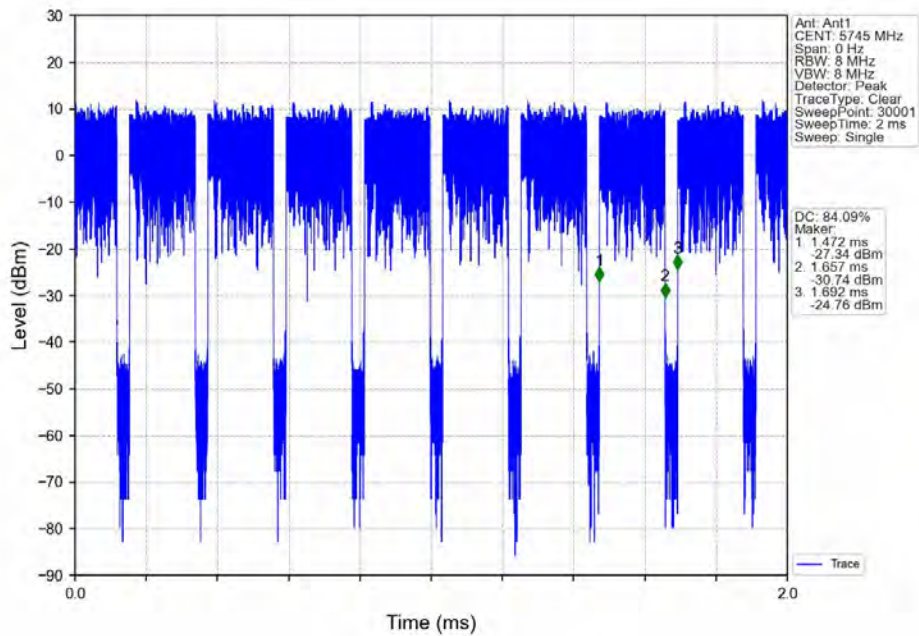
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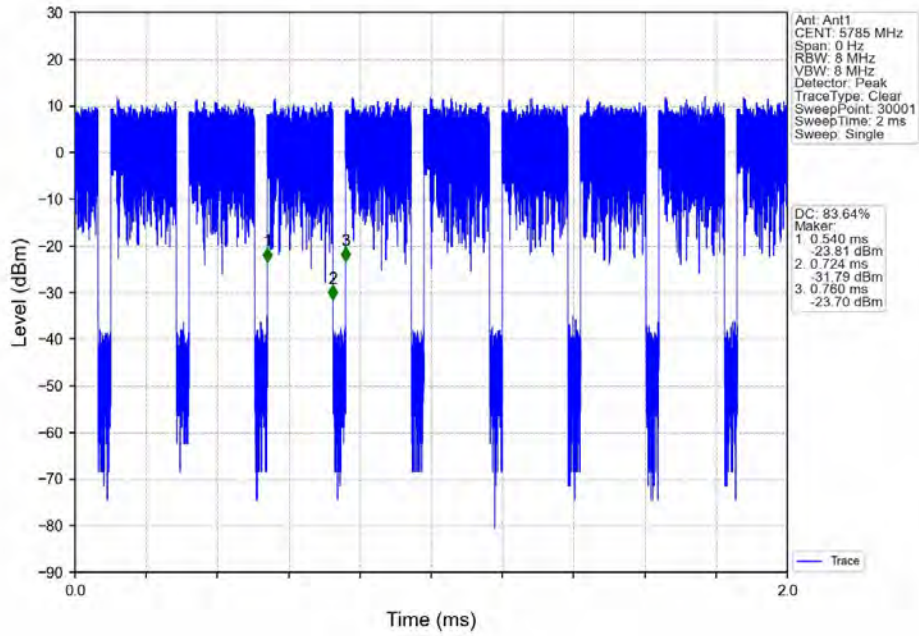
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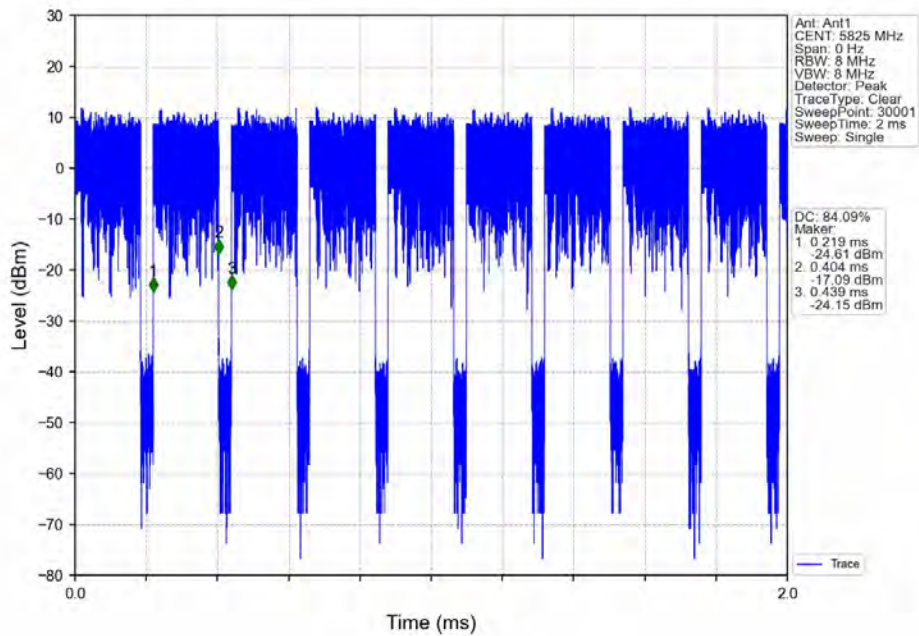
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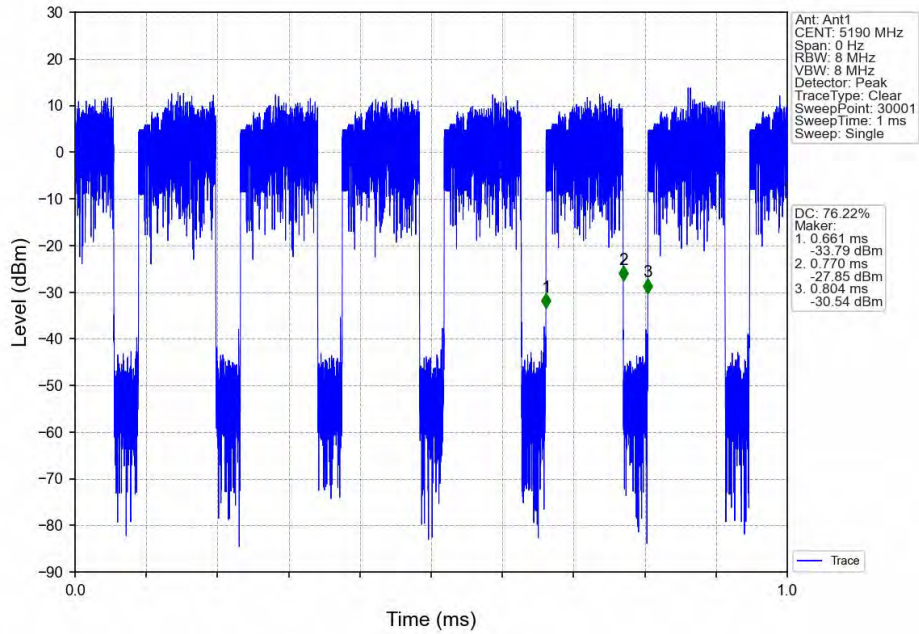
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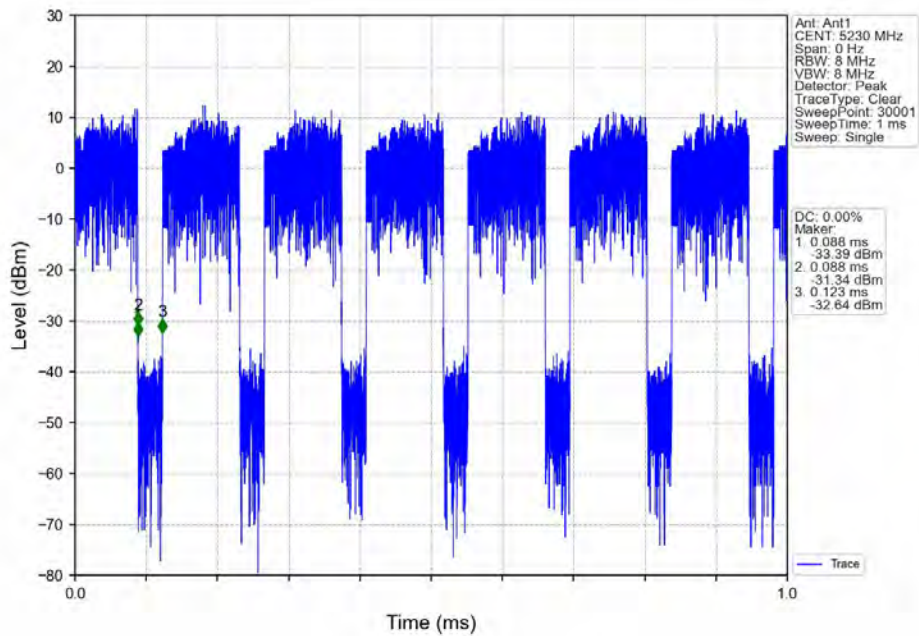
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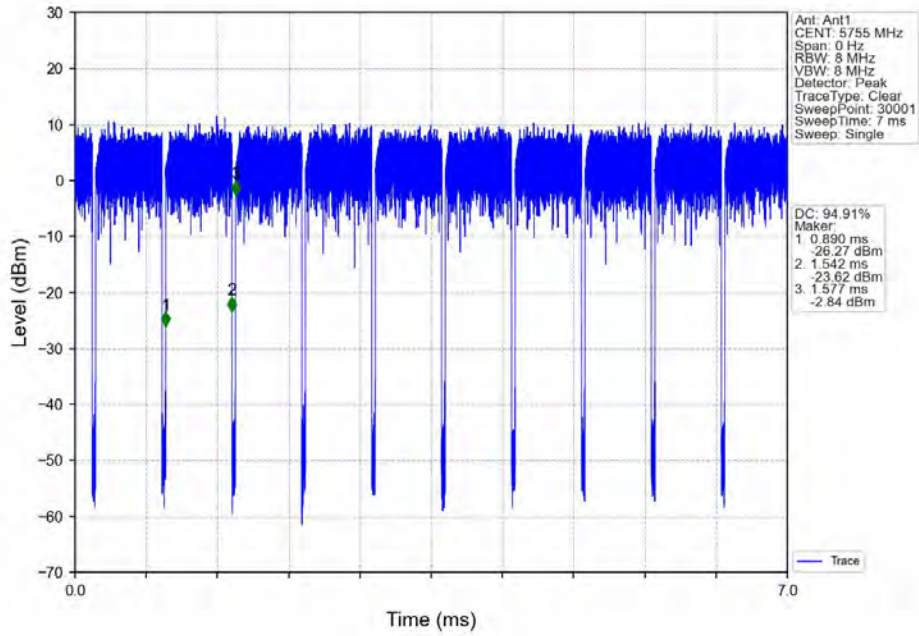
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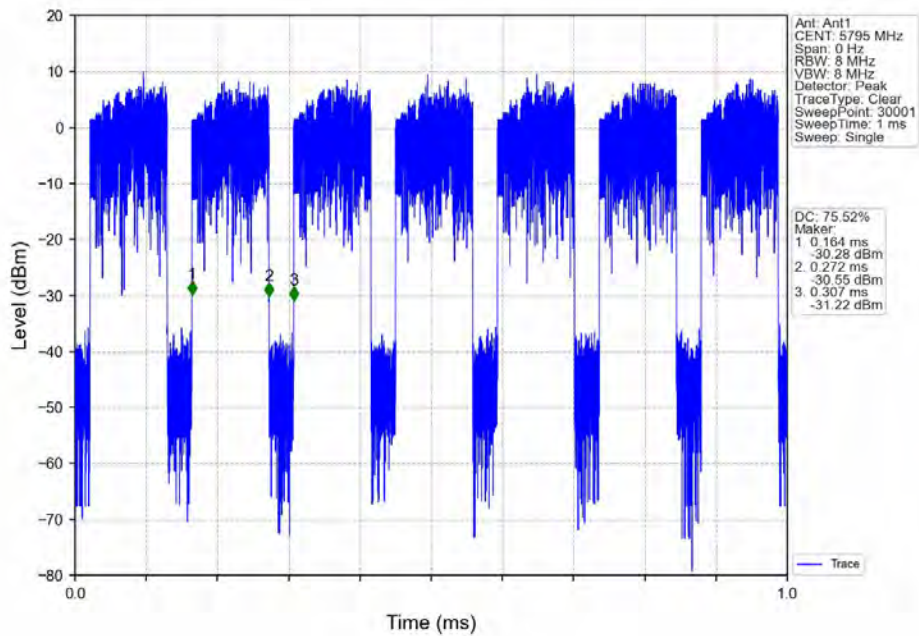
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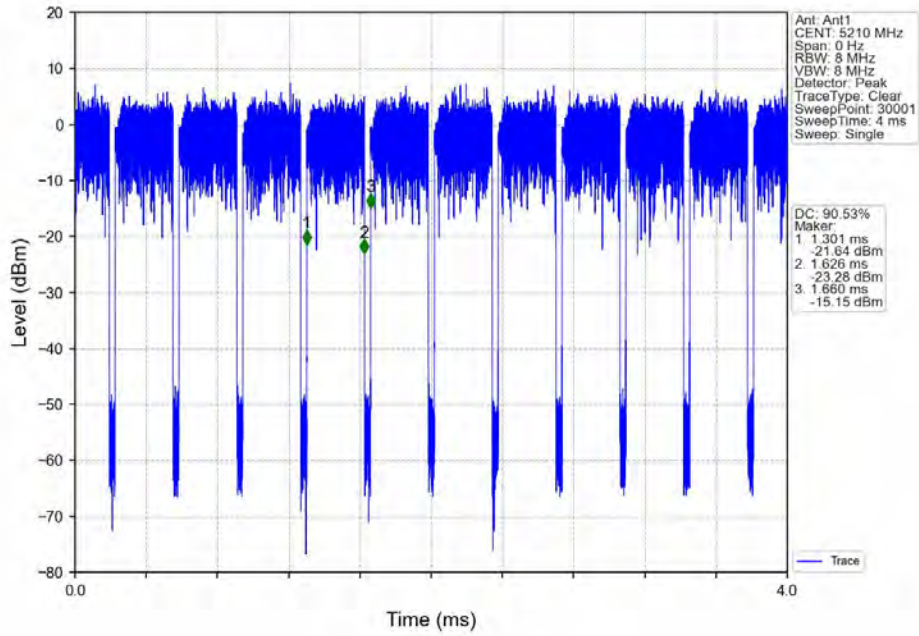
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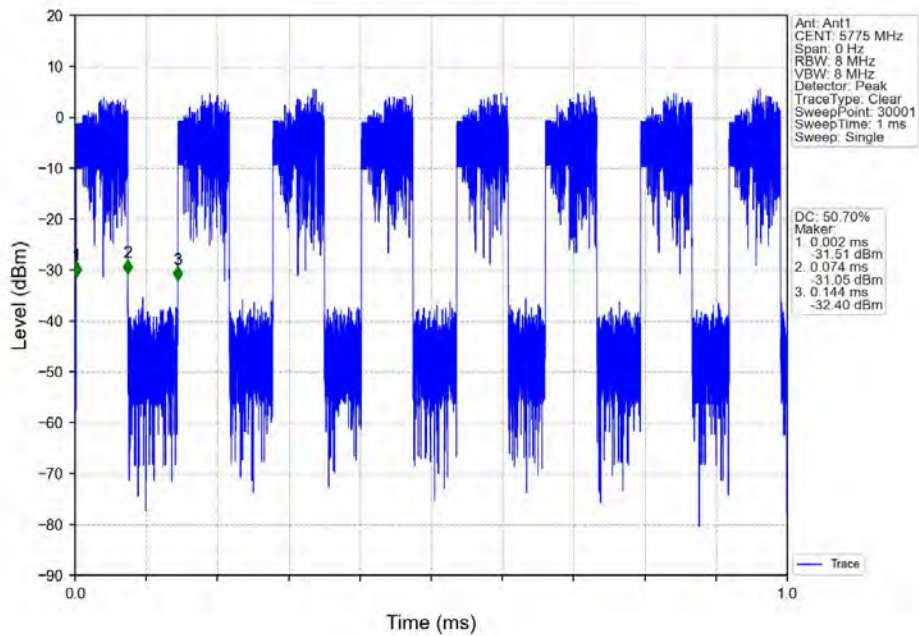
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



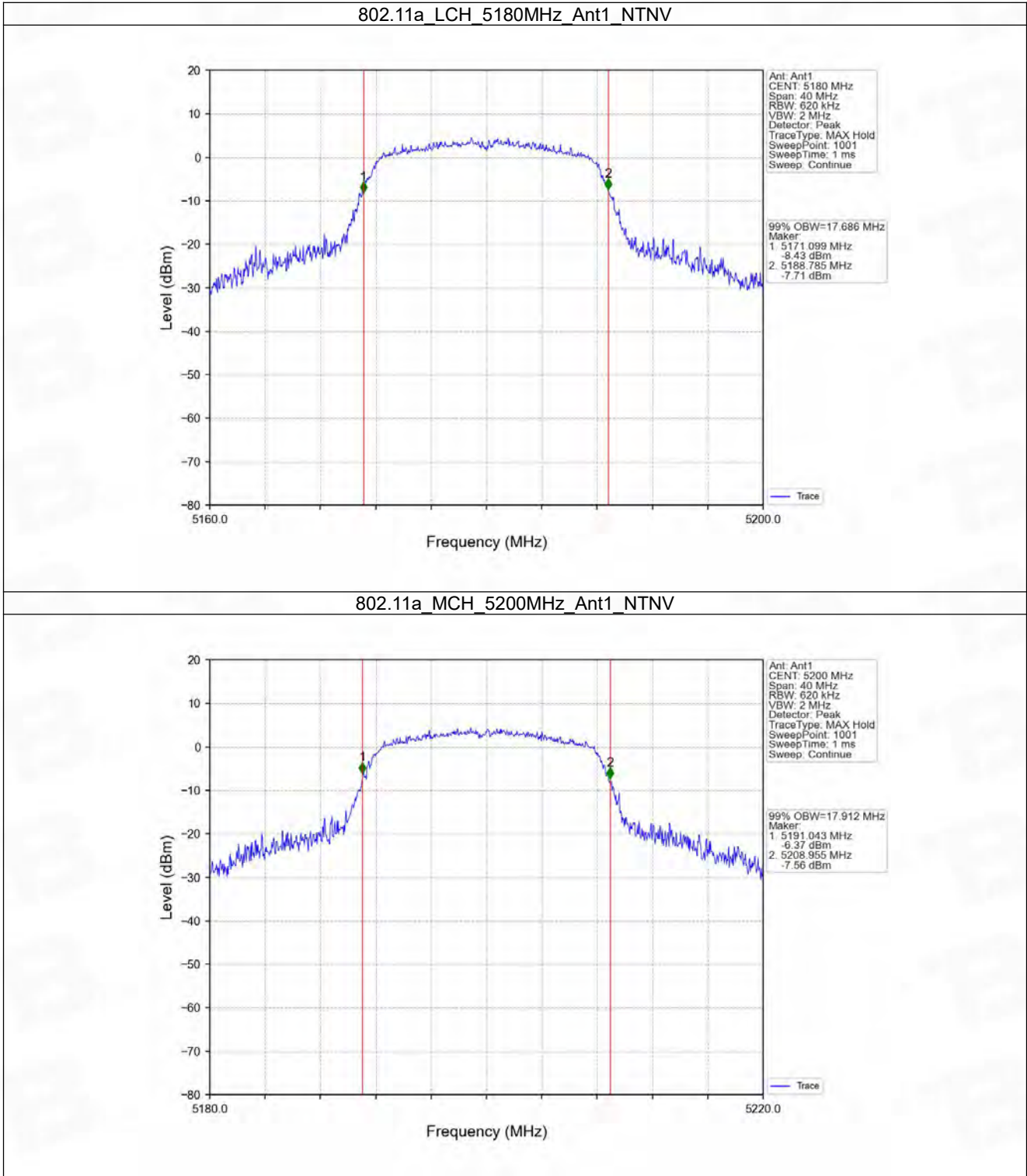
2. Bandwidth

2.1 OBW

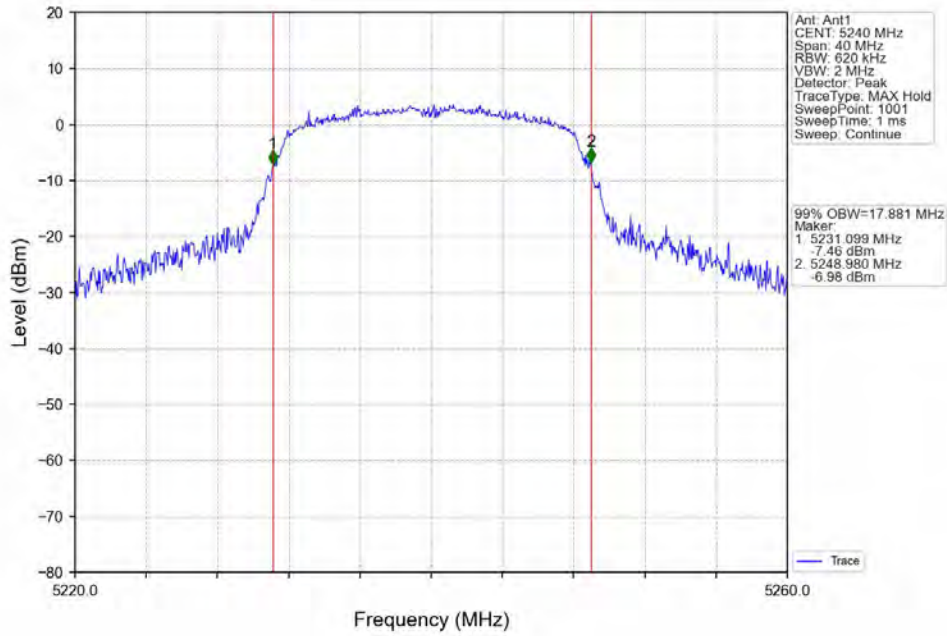
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.686	/	Pass
		5200	1	17.912	/	Pass
		5240	1	17.881	/	Pass
		5745	1	18.979	/	Pass
		5785	1	18.323	/	Pass
		5825	1	18.486	/	Pass
802.11n (HT20)	SISO	5180	1	18.734	/	Pass
		5200	1	18.675	/	Pass
		5240	1	18.801	/	Pass
		5745	1	19.076	/	Pass
		5785	1	18.699	/	Pass
		5825	1	19.012	/	Pass
802.11n (HT40)	SISO	5190	1	37.269	/	Pass
		5230	1	37.277	/	Pass
		5755	1	37.351	/	Pass
		5795	1	37.441	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.001	/	Pass
		5200	1	18.002	/	Pass
		5240	1	18.091	/	Pass
		5745	1	18.096	/	Pass
		5785	1	18.179	/	Pass
		5825	1	18.214	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.593	/	Pass
		5230	1	36.348	/	Pass
		5755	1	36.789	/	Pass
		5795	1	36.822	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.052	/	Pass
		5775	1	76.824	/	Pass

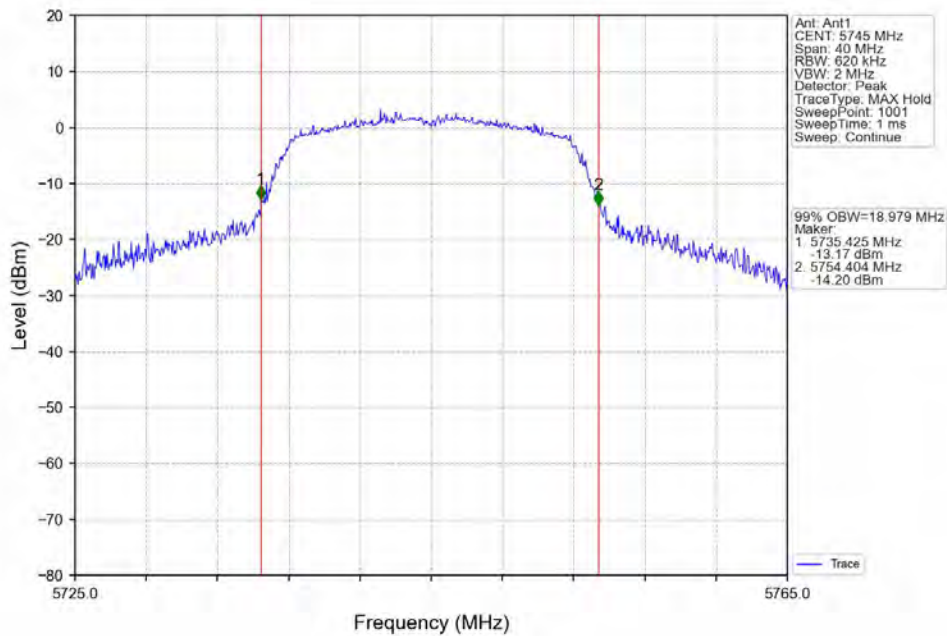
2.1.2 Test Graph

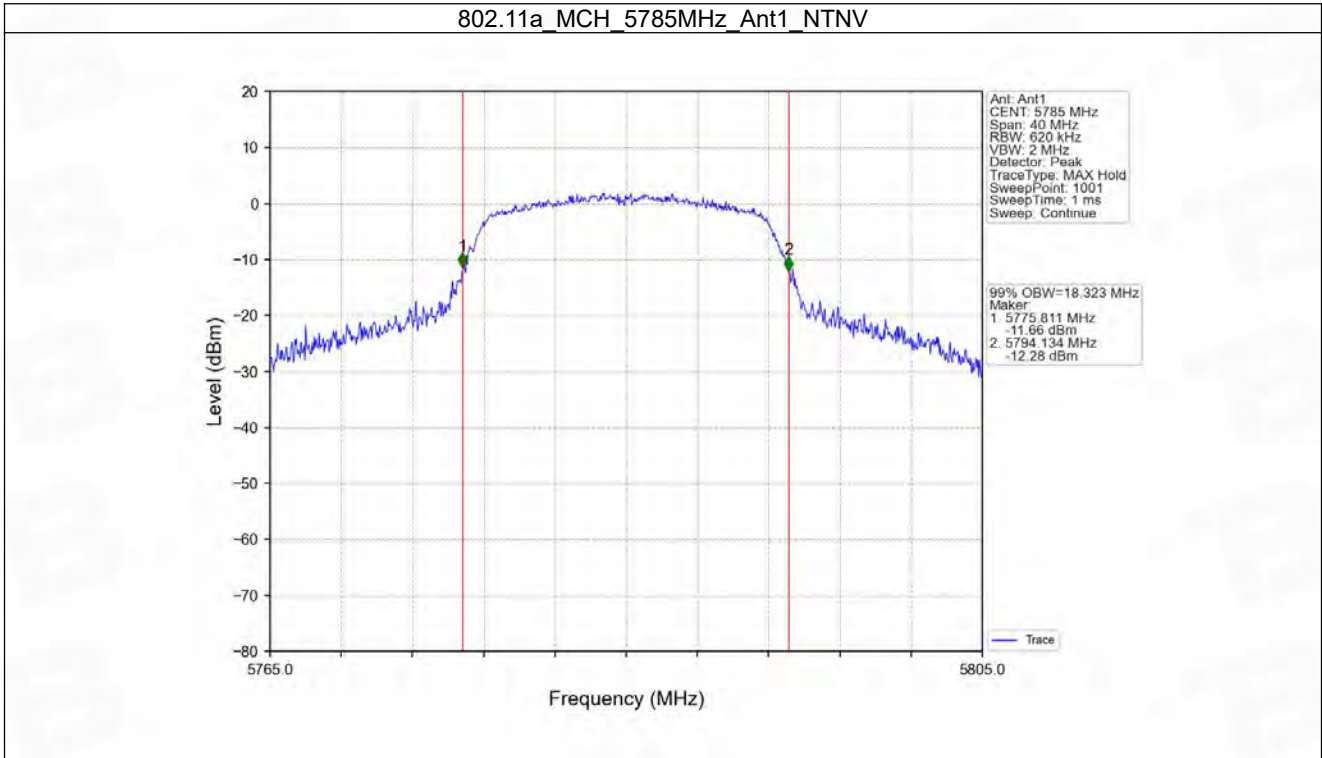


802.11a_HCH_5240MHz_Ant1_NTNV

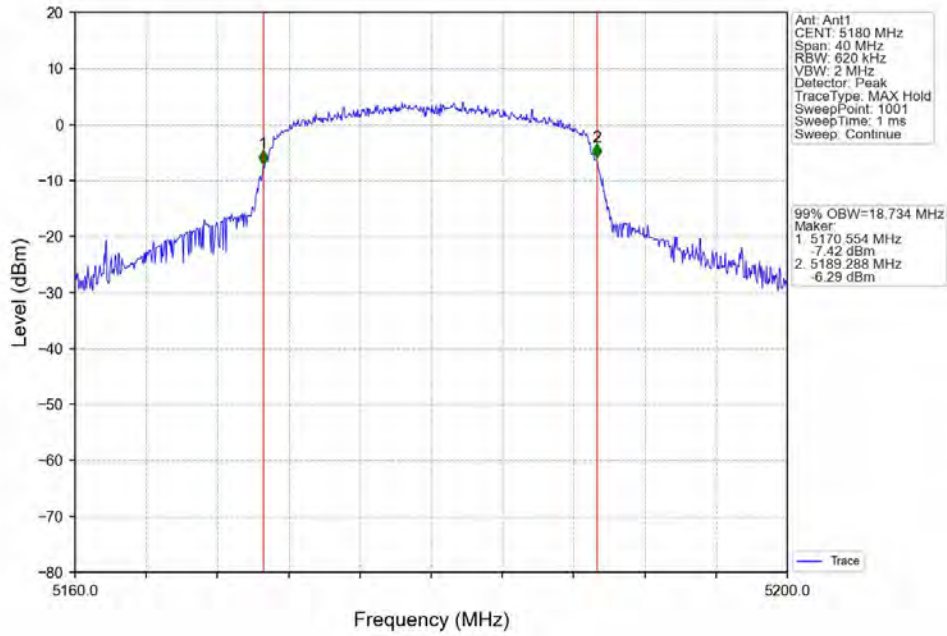


802.11a_LCH_5745MHz_Ant1_NTNV

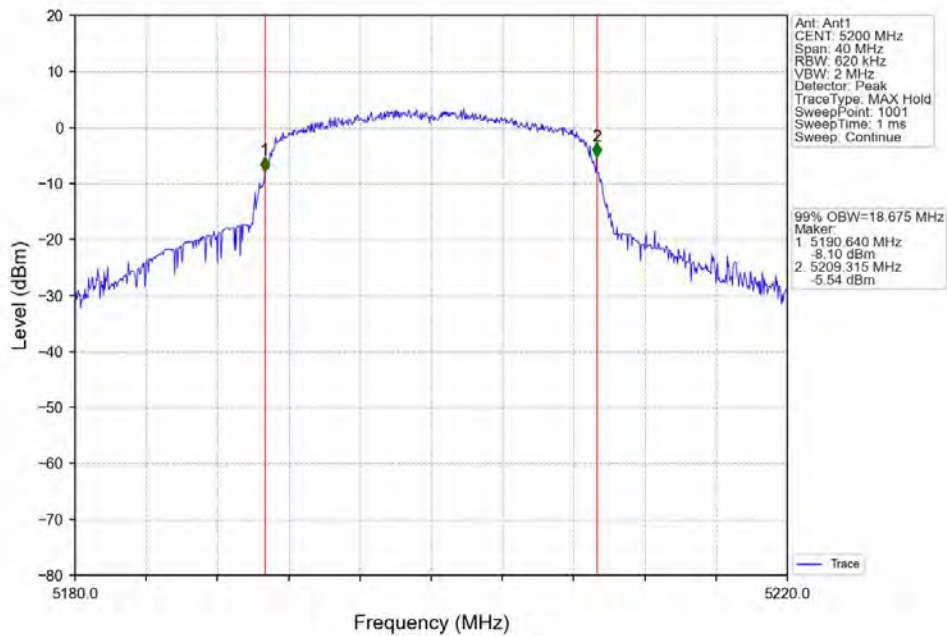




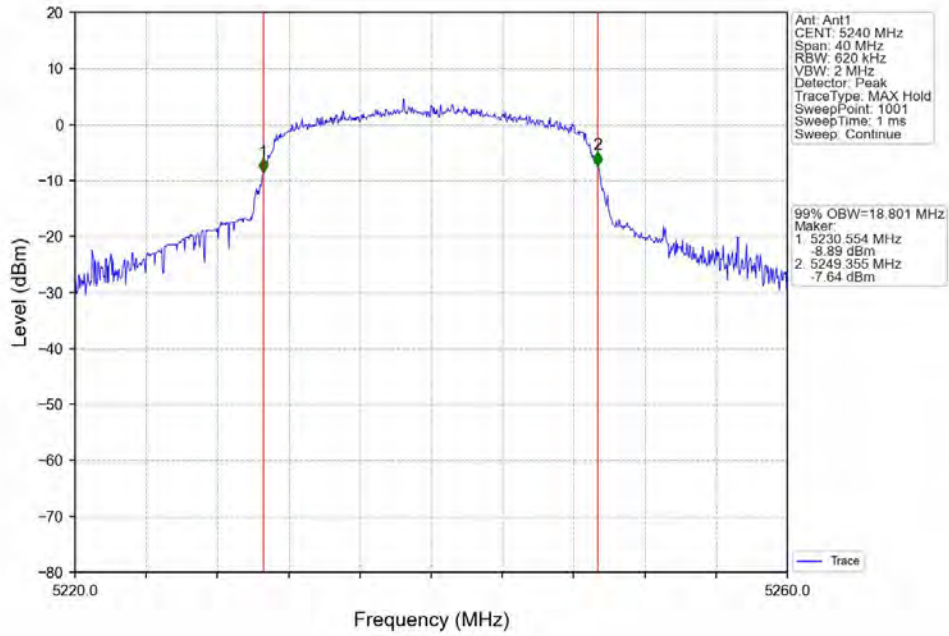
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



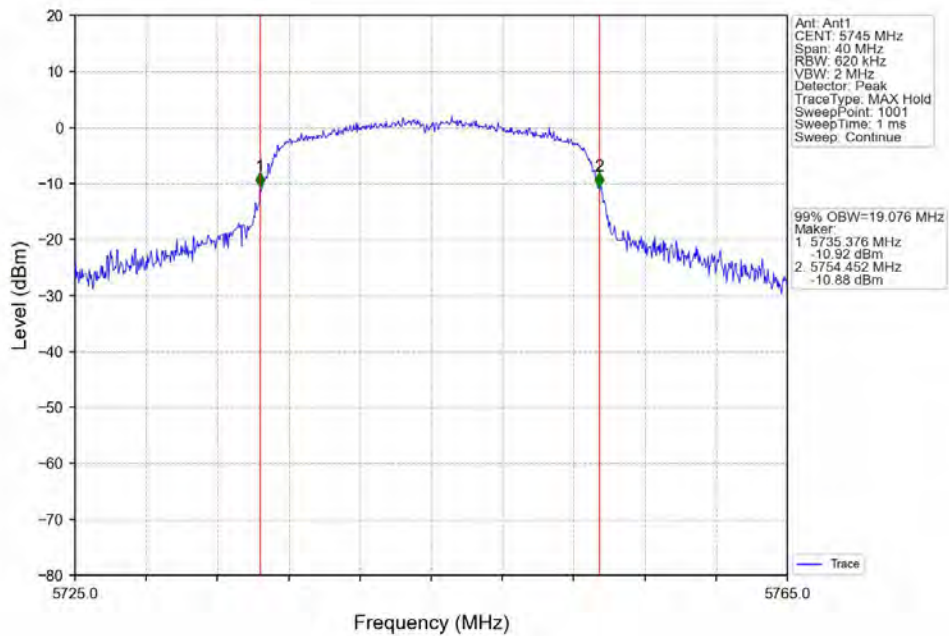
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



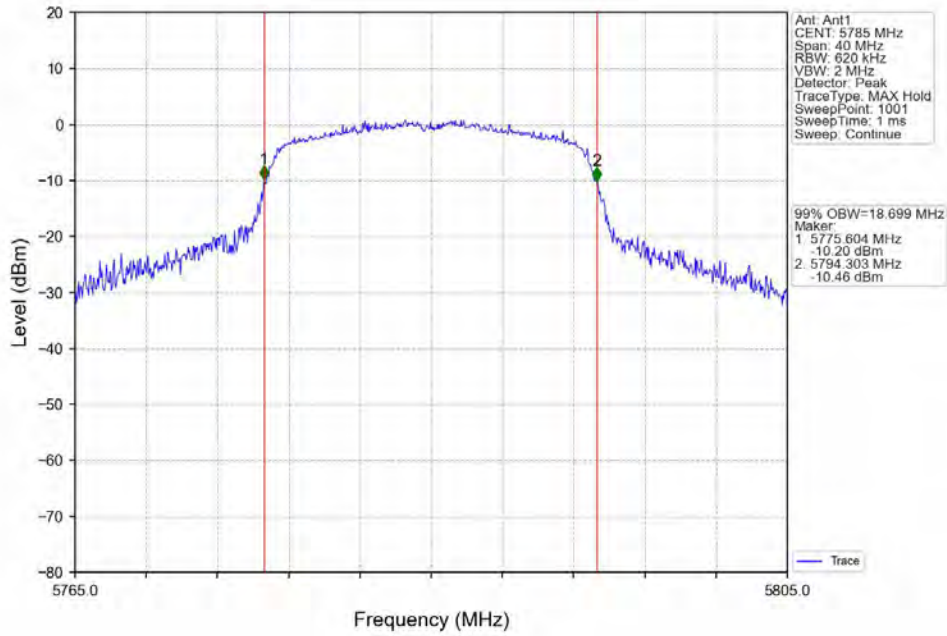
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



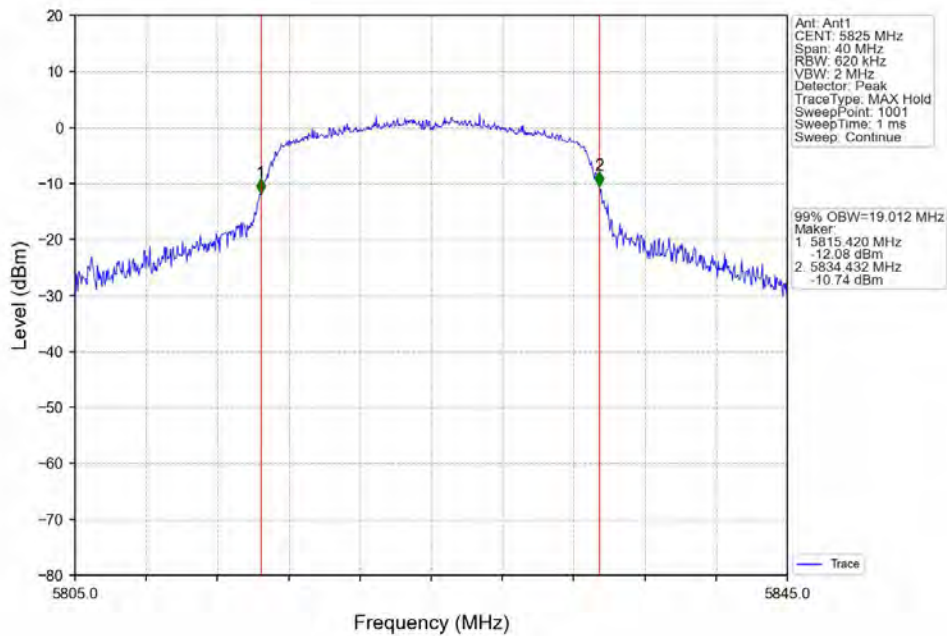
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



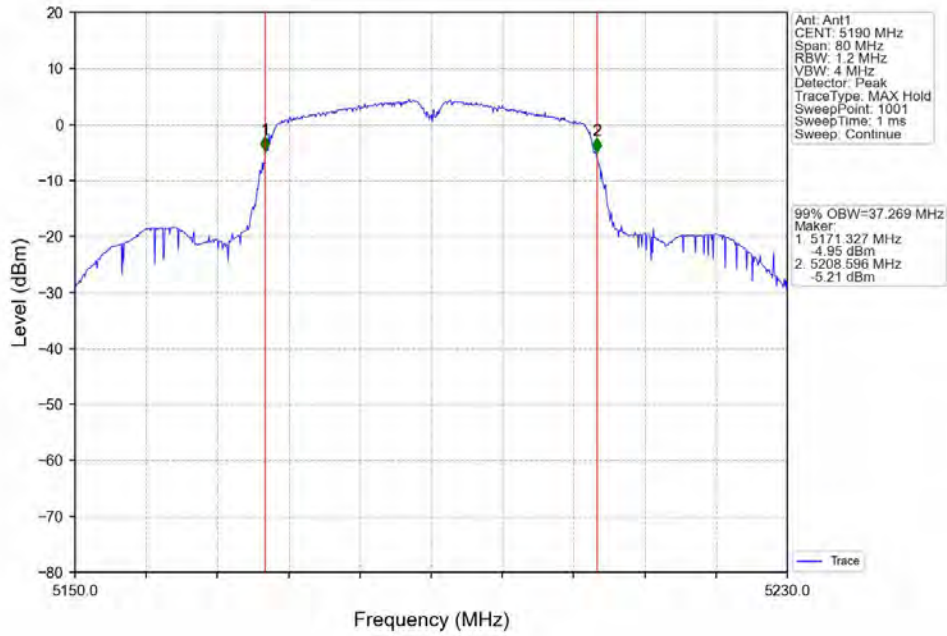
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



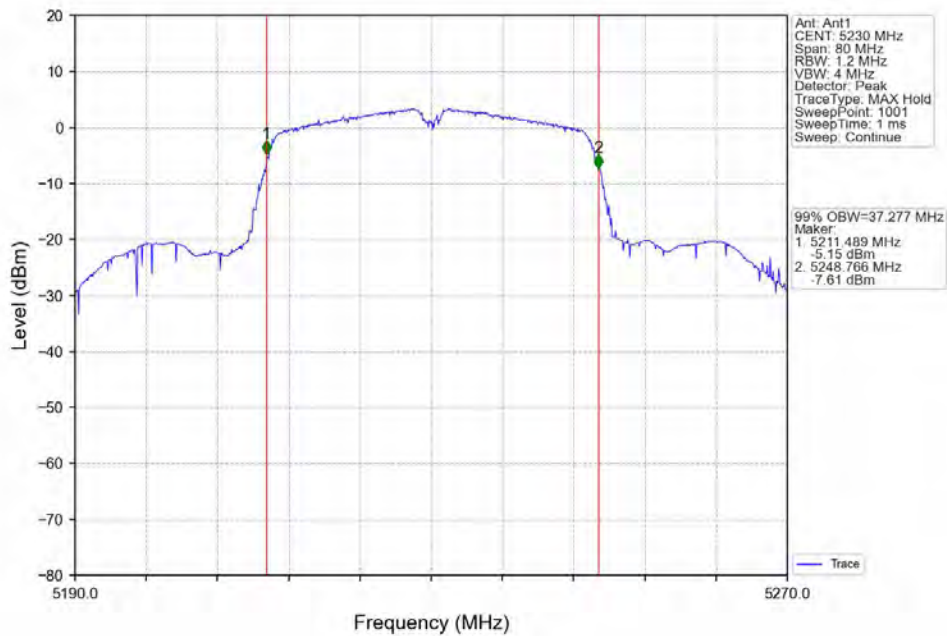
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



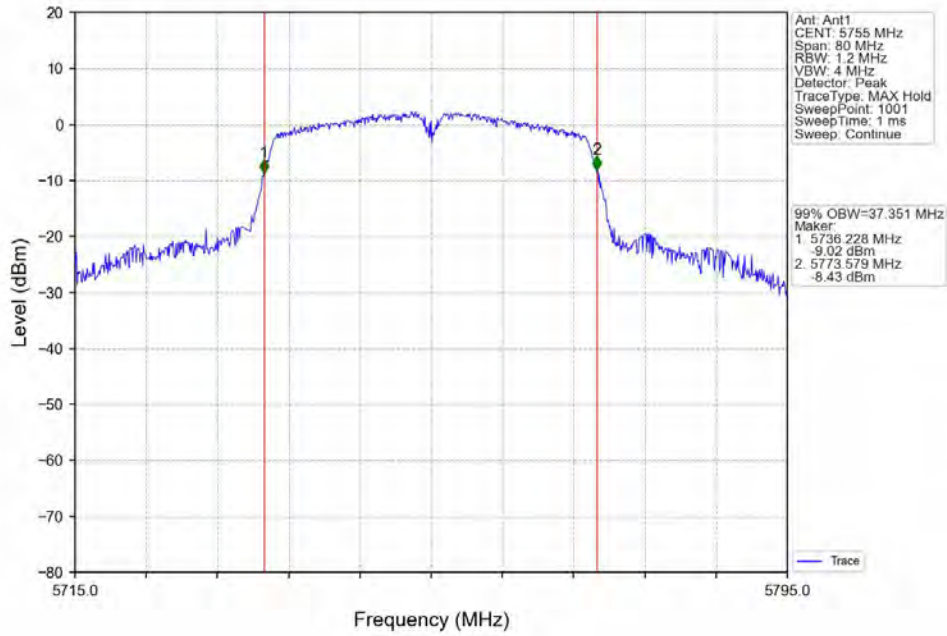
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



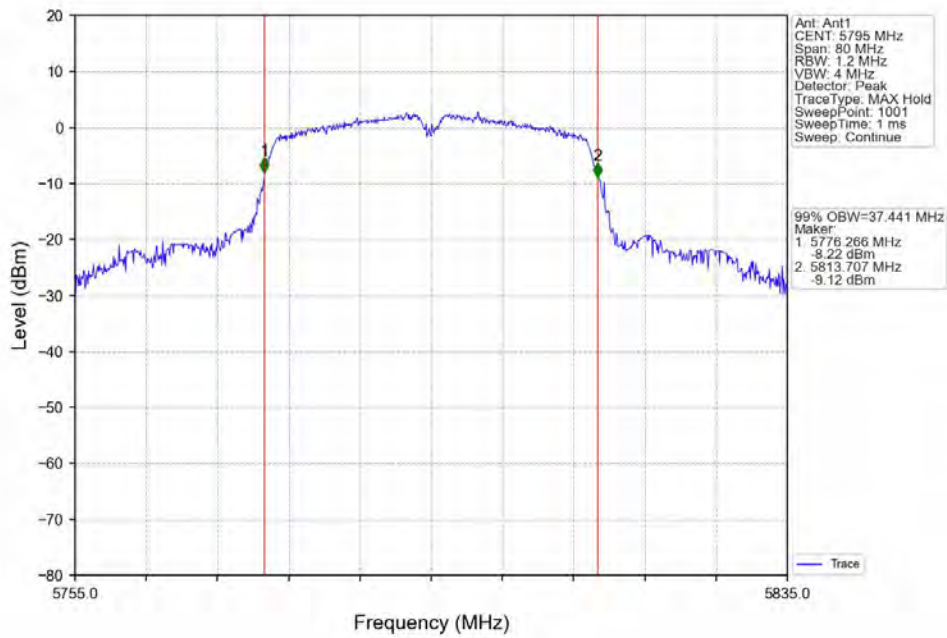
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



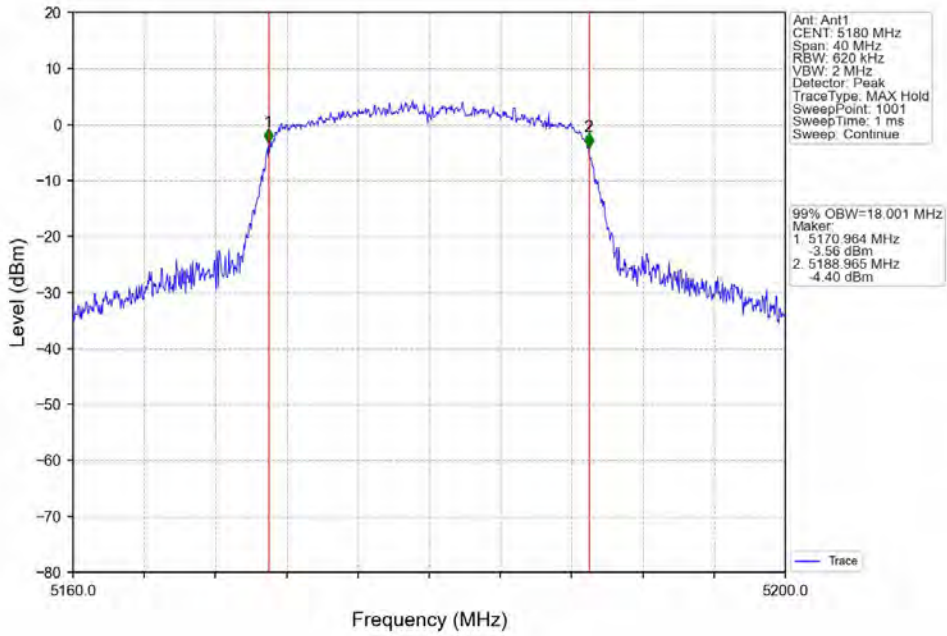
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



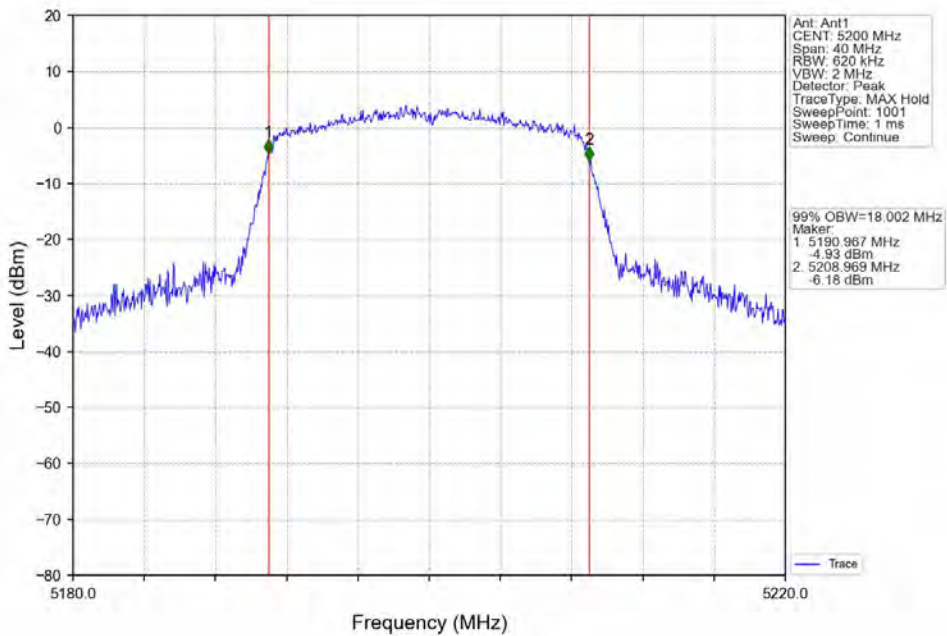
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



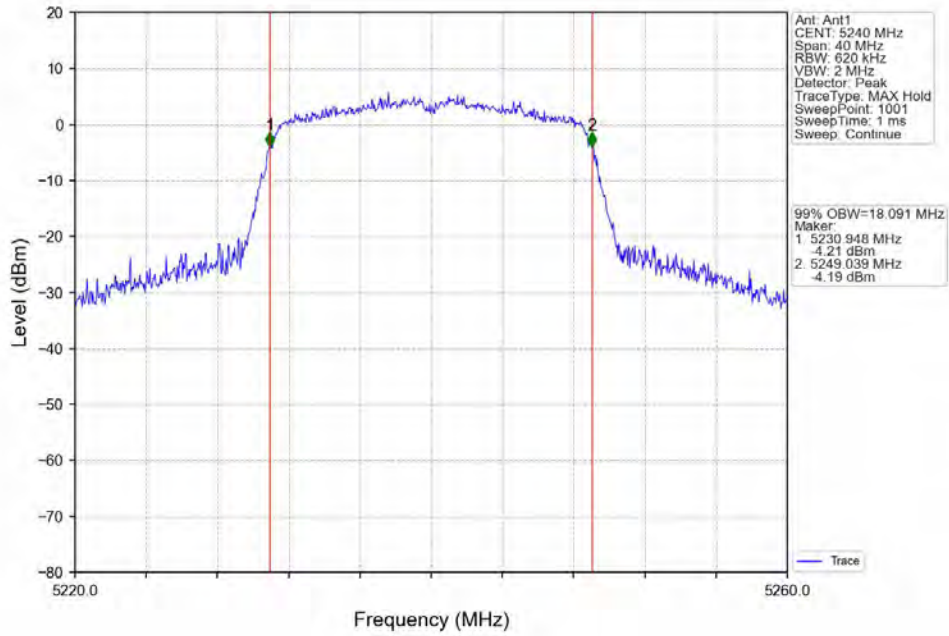
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



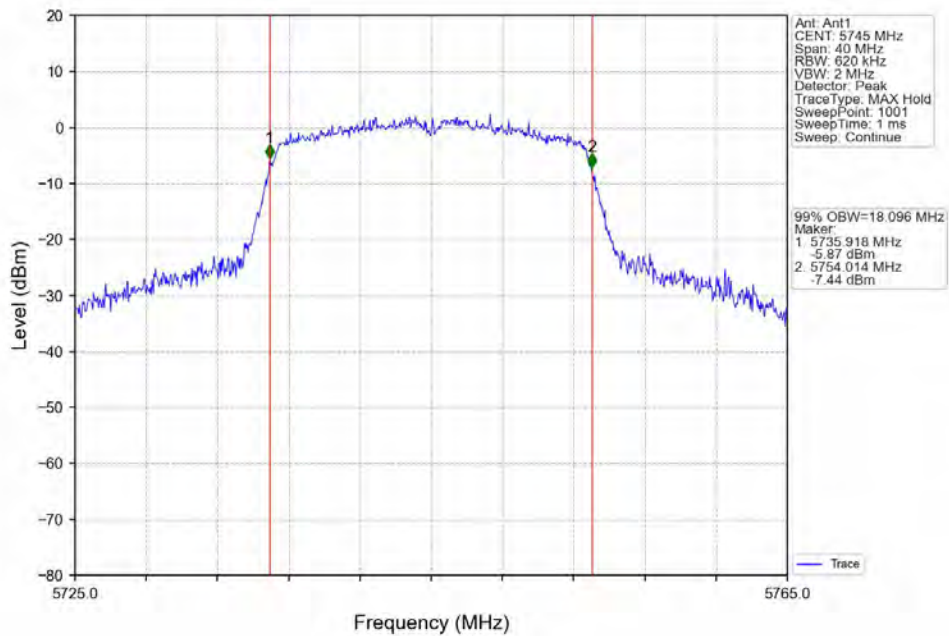
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



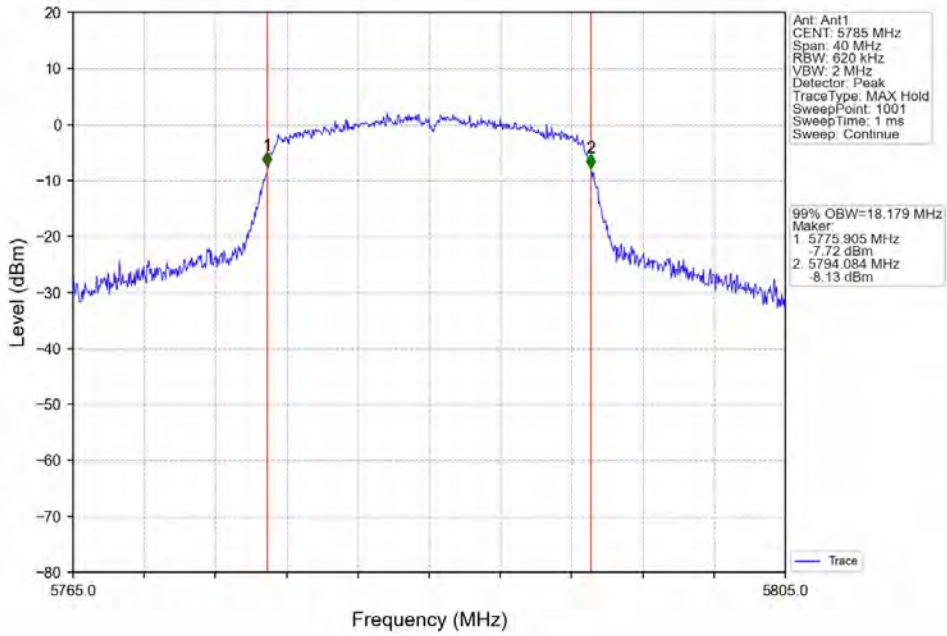
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



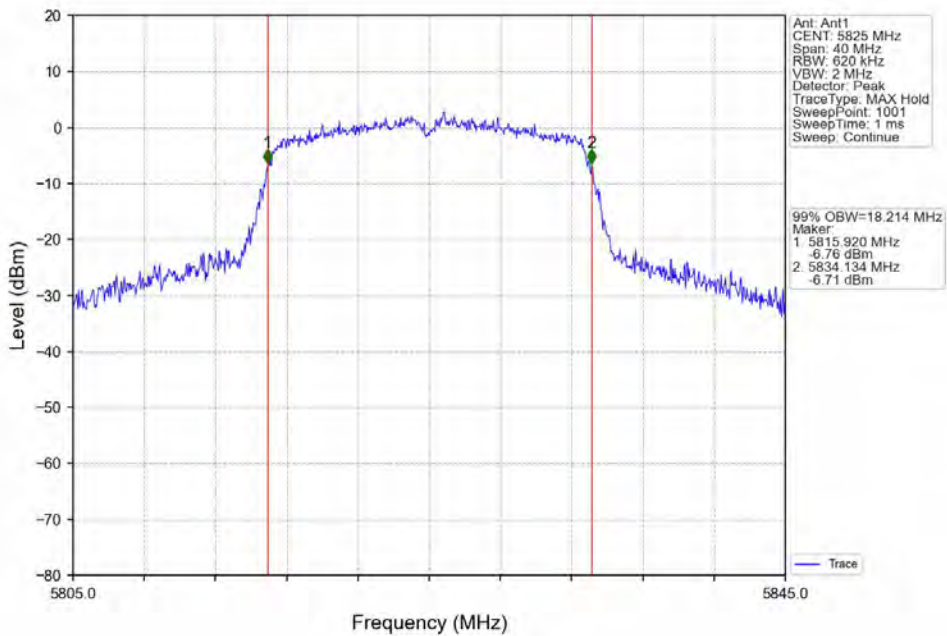
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



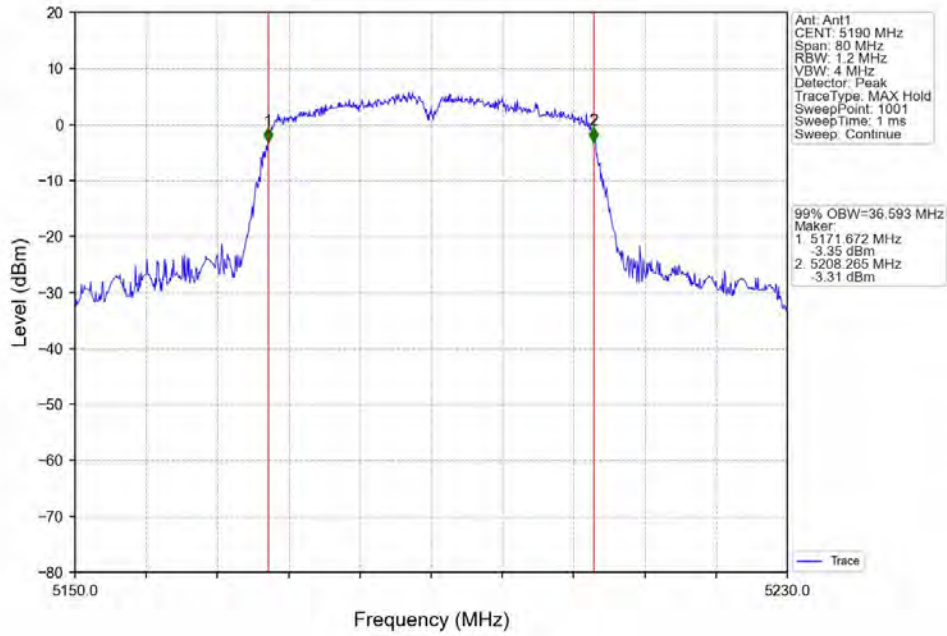
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



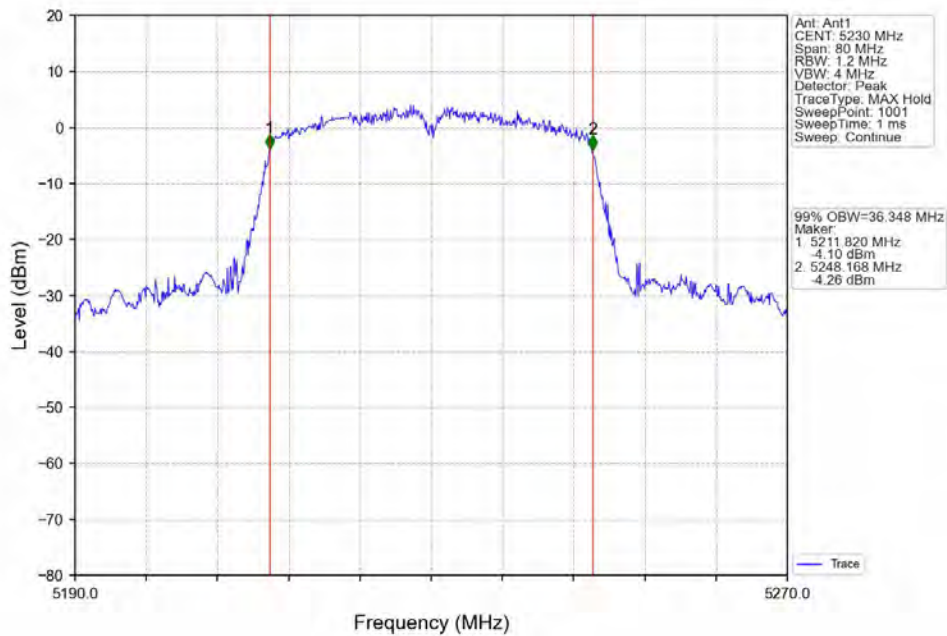
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



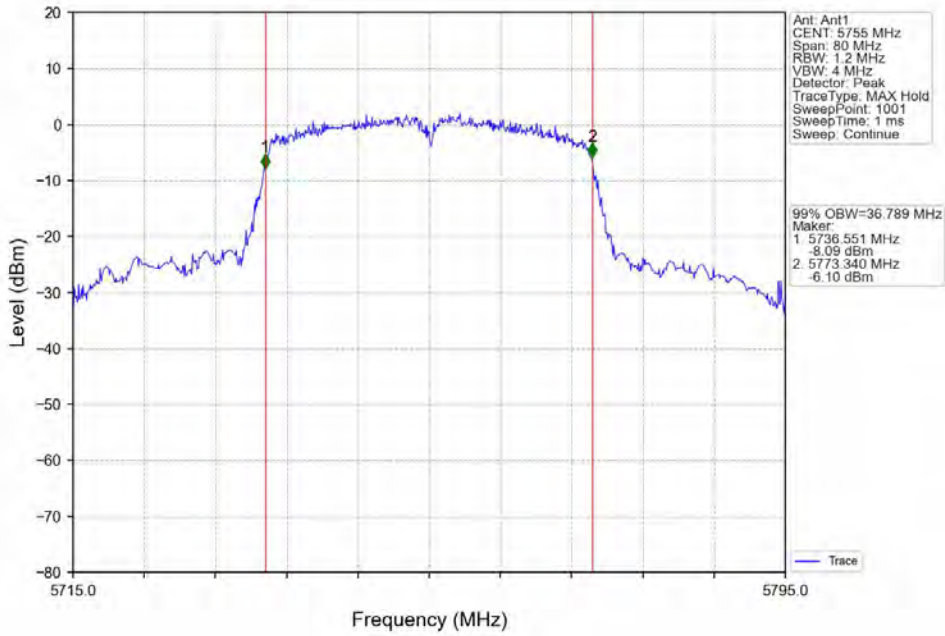
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



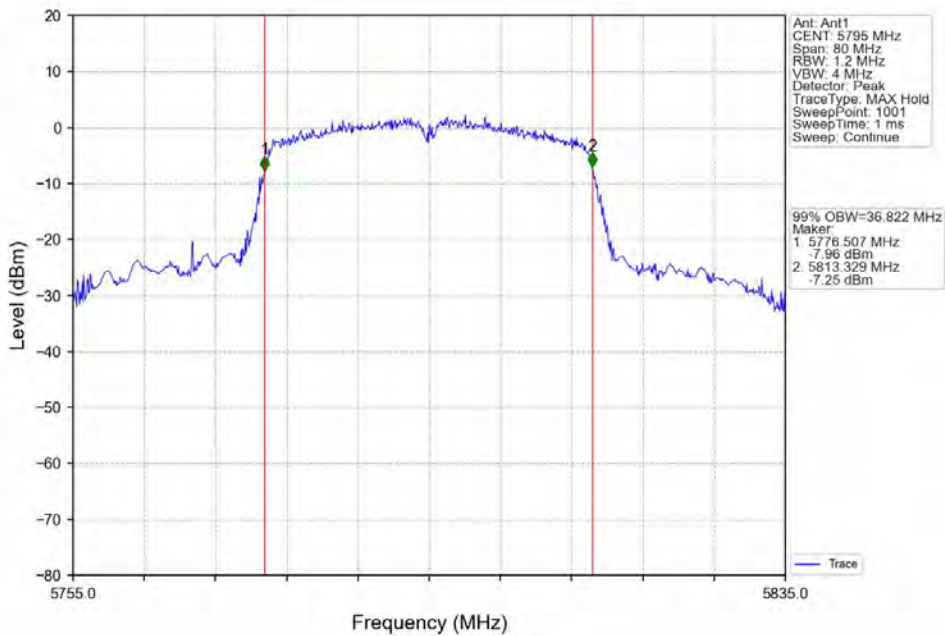
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



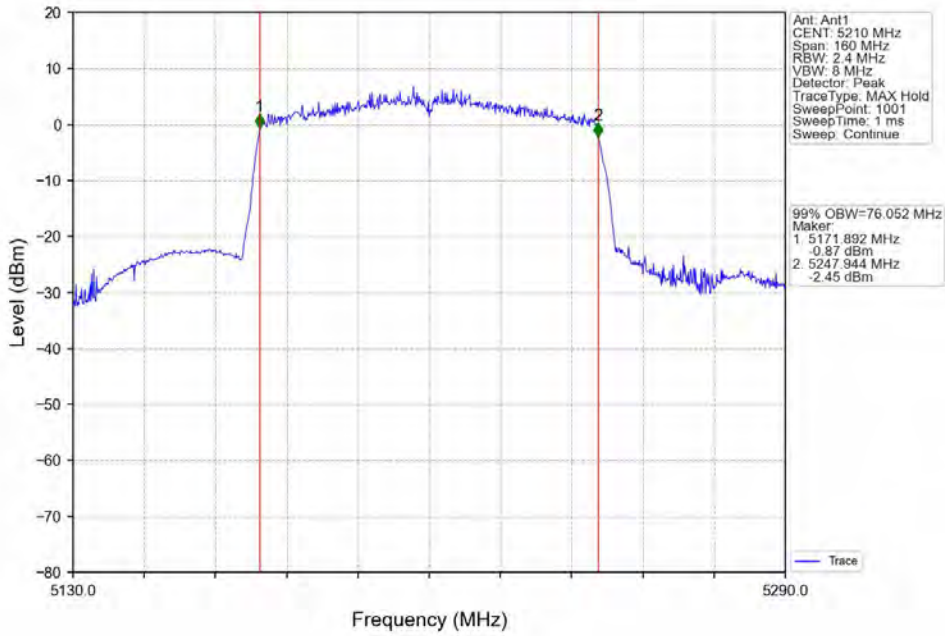
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



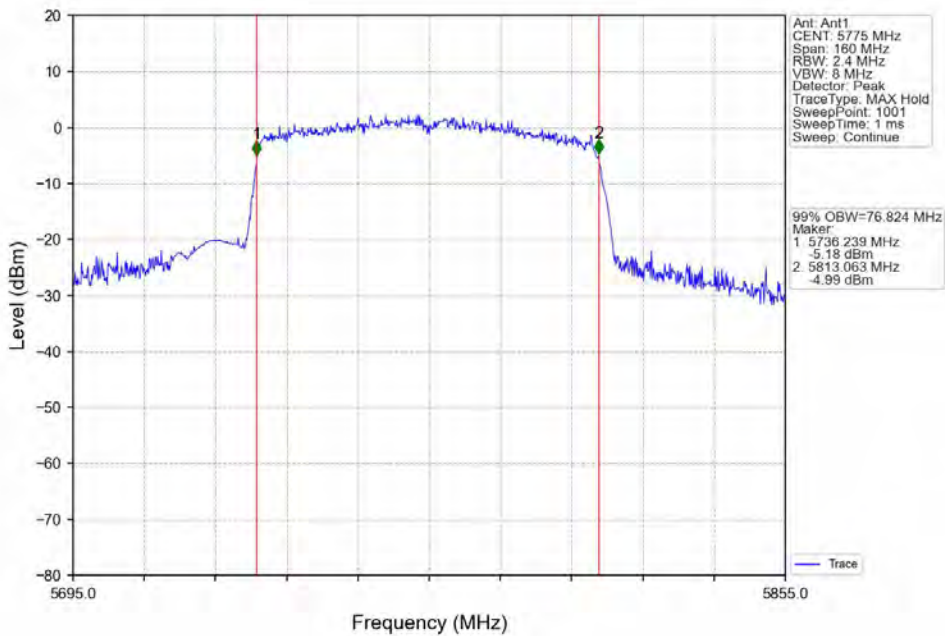
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

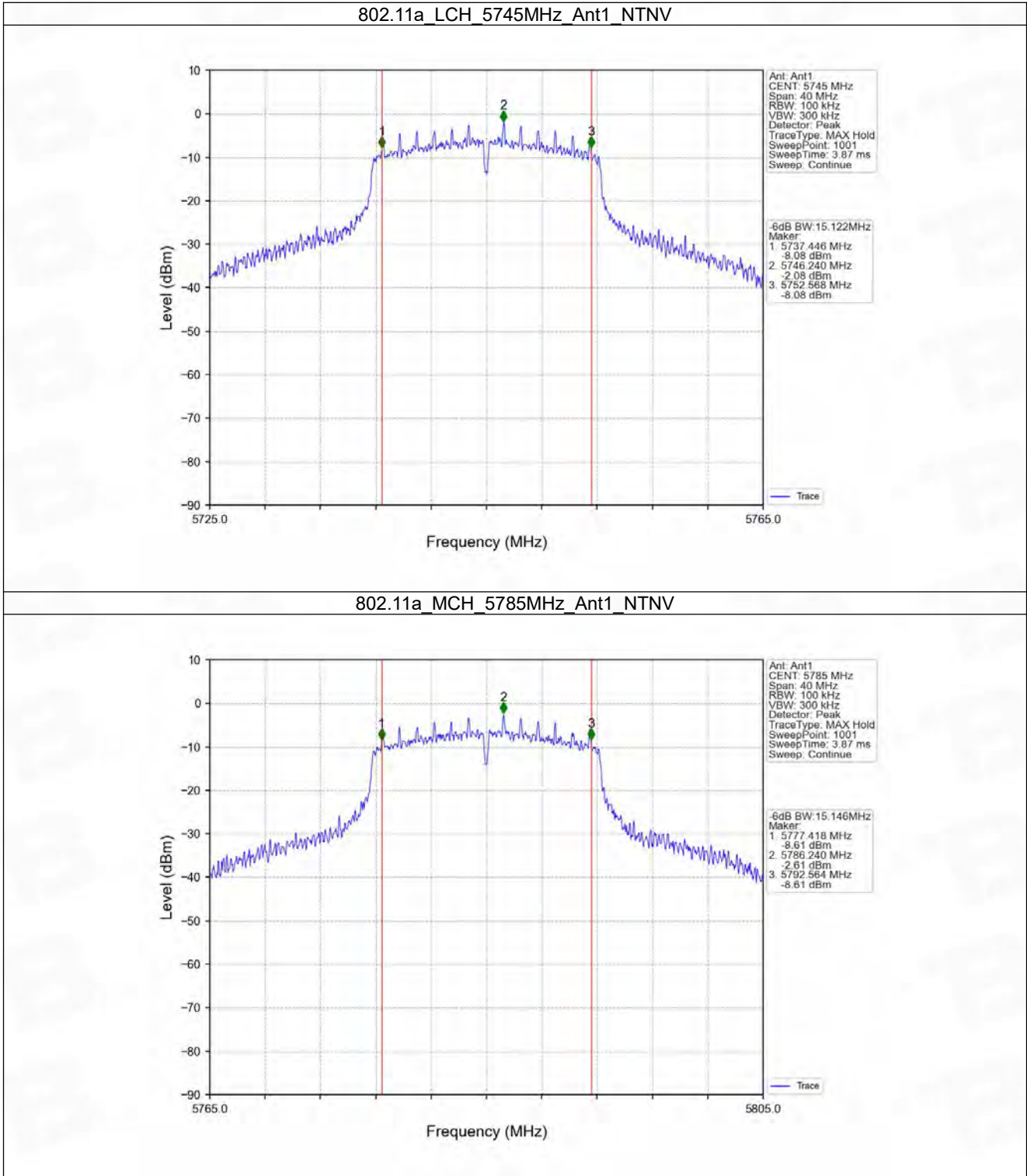


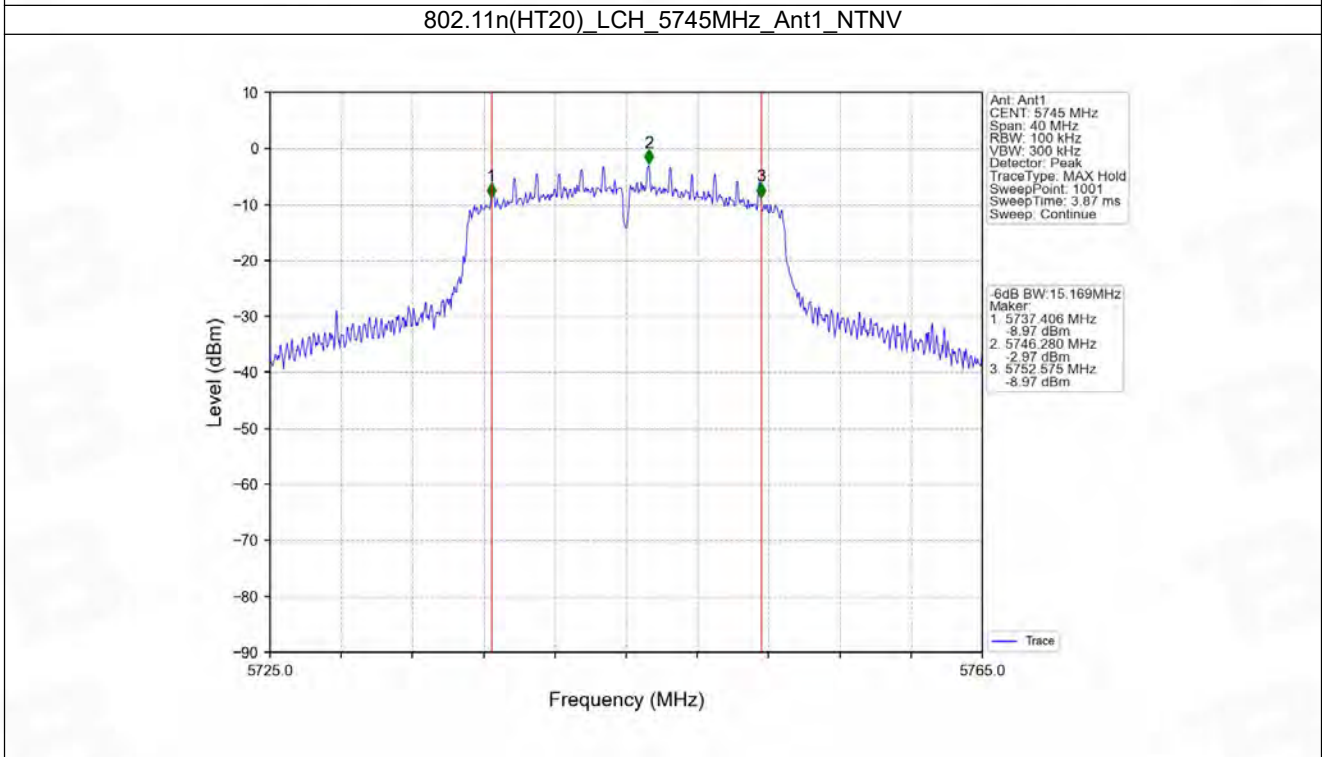
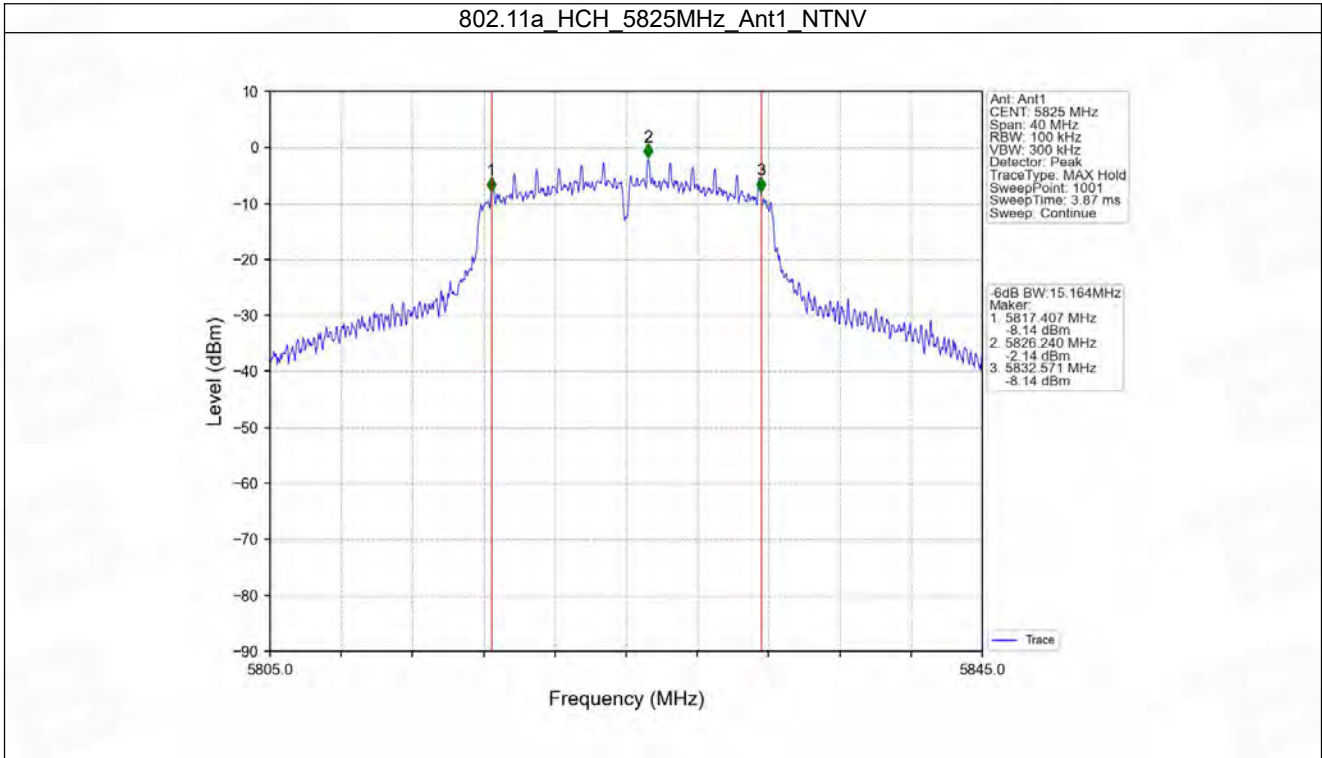
2.2 6dB BW

2.2.1 Test Result

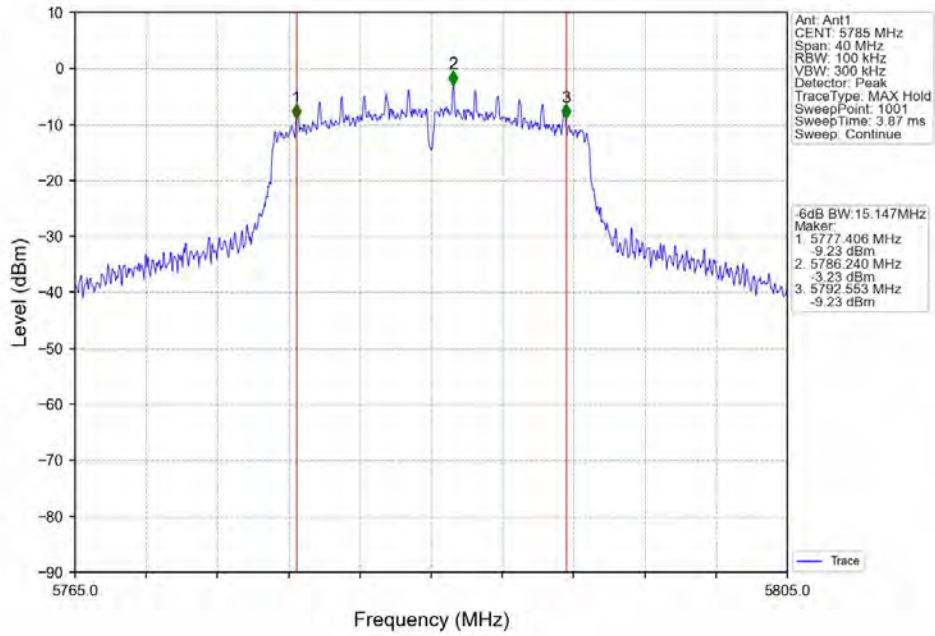
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.122	>=0.5	Pass
		5785	1	15.146	>=0.5	Pass
		5825	1	15.164	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	15.169	>=0.5	Pass
		5785	1	15.147	>=0.5	Pass
		5825	1	15.167	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	35.145	>=0.5	Pass
		5795	1	35.149	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.748	>=0.5	Pass
		5785	1	16.056	>=0.5	Pass
		5825	1	15.168	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.152	>=0.5	Pass
		5795	1	35.159	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.435	>=0.5	Pass

2.2.2 Test Graph

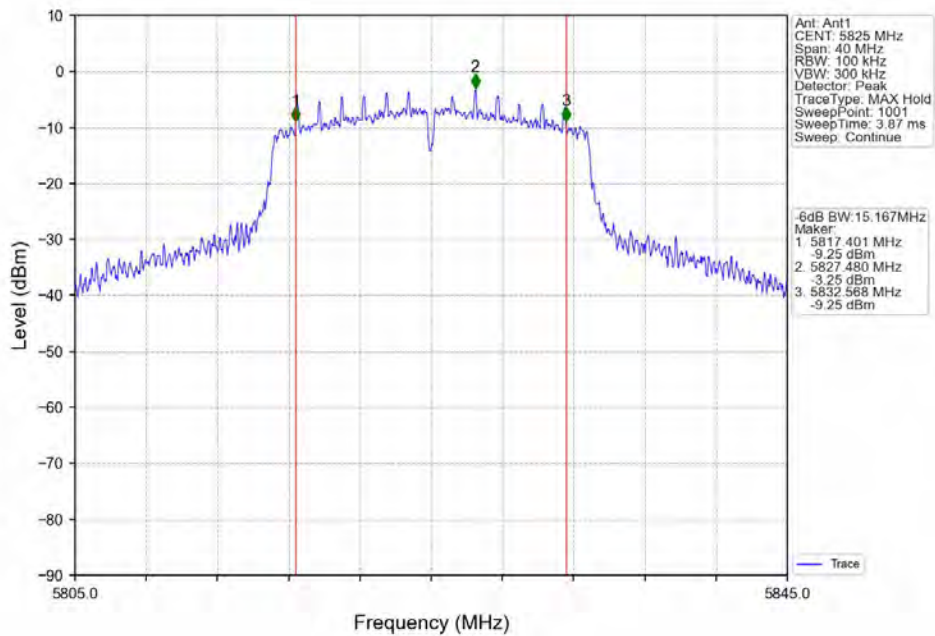




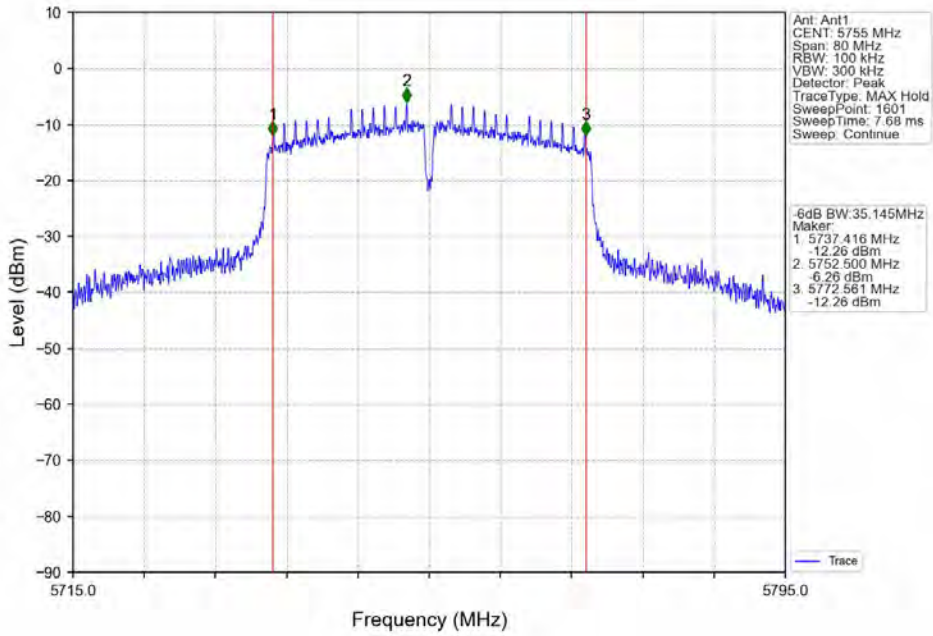
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



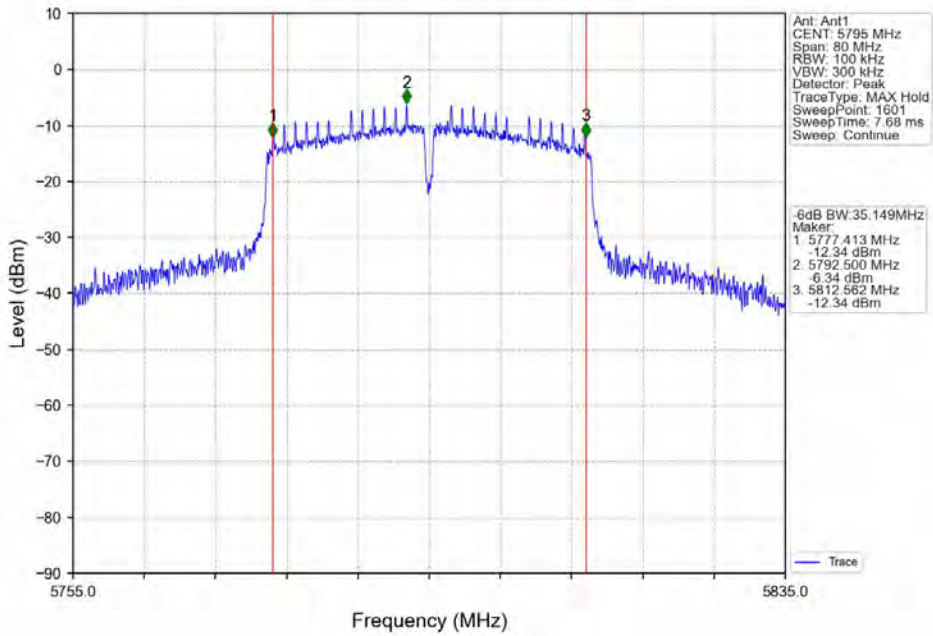
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



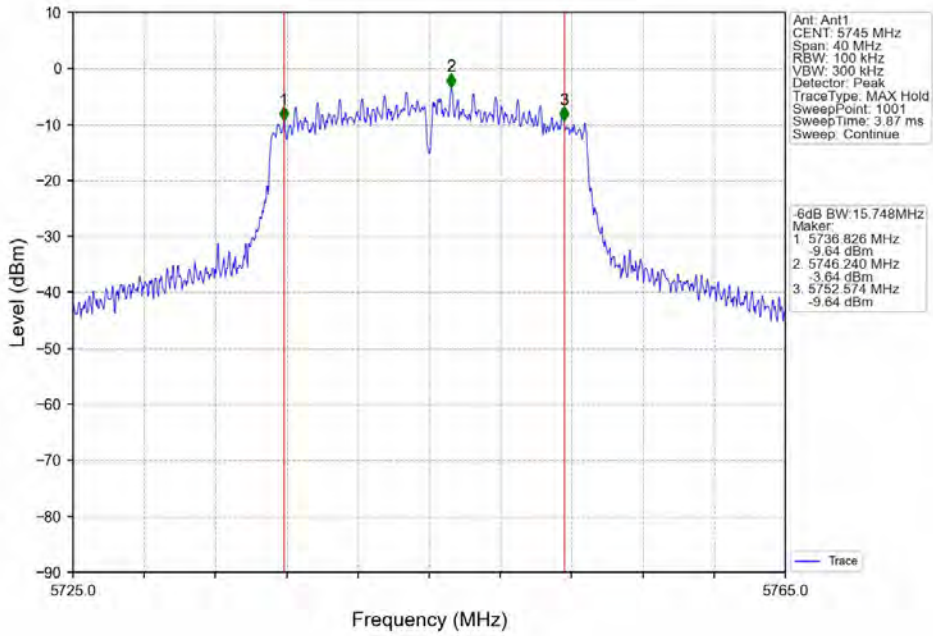
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



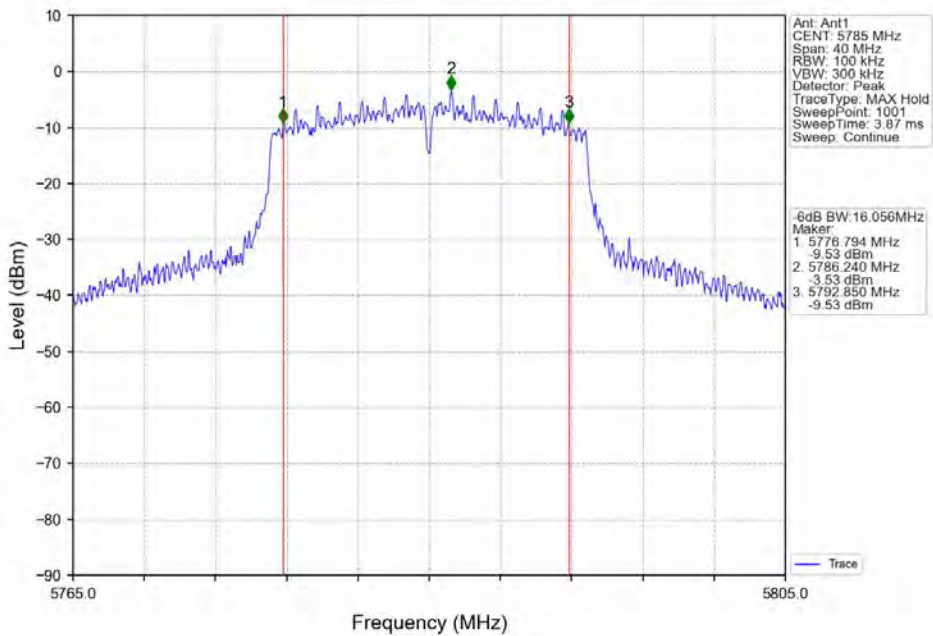
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



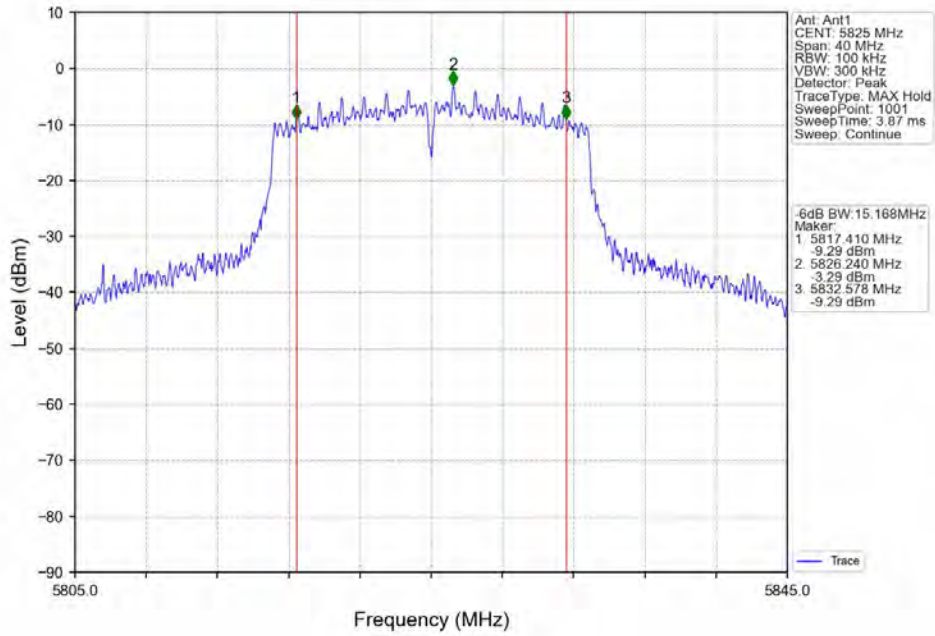
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



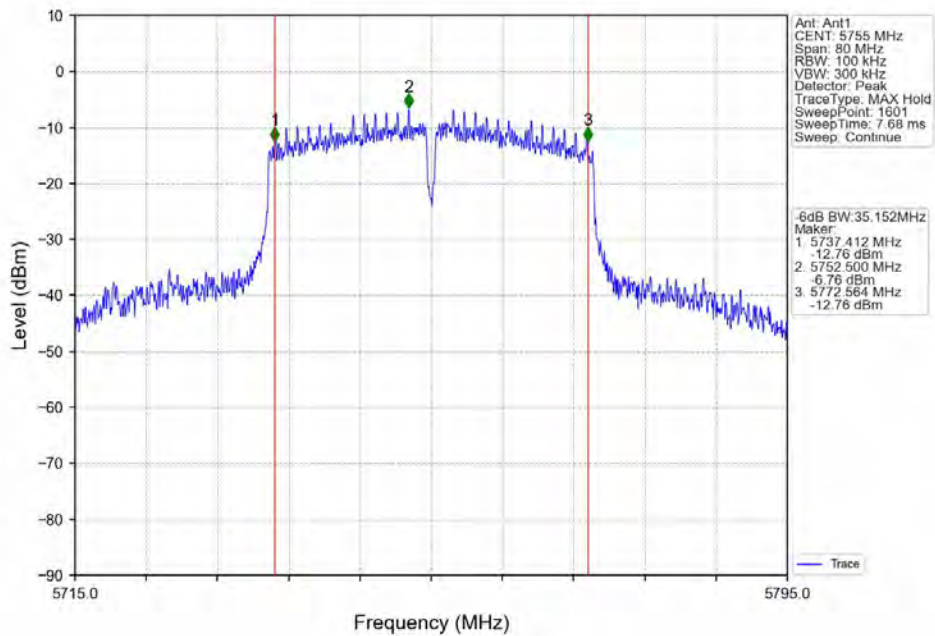
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



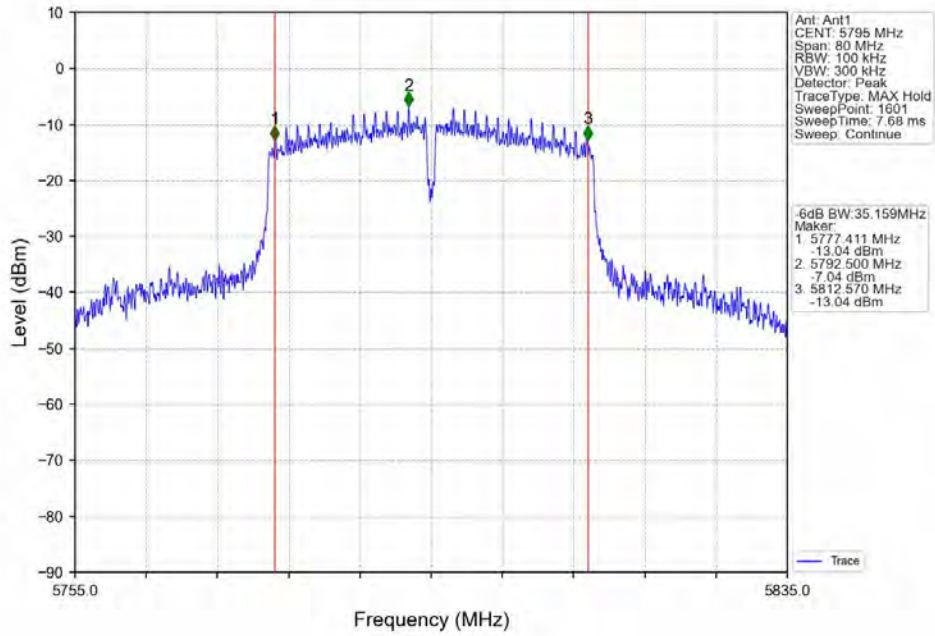
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



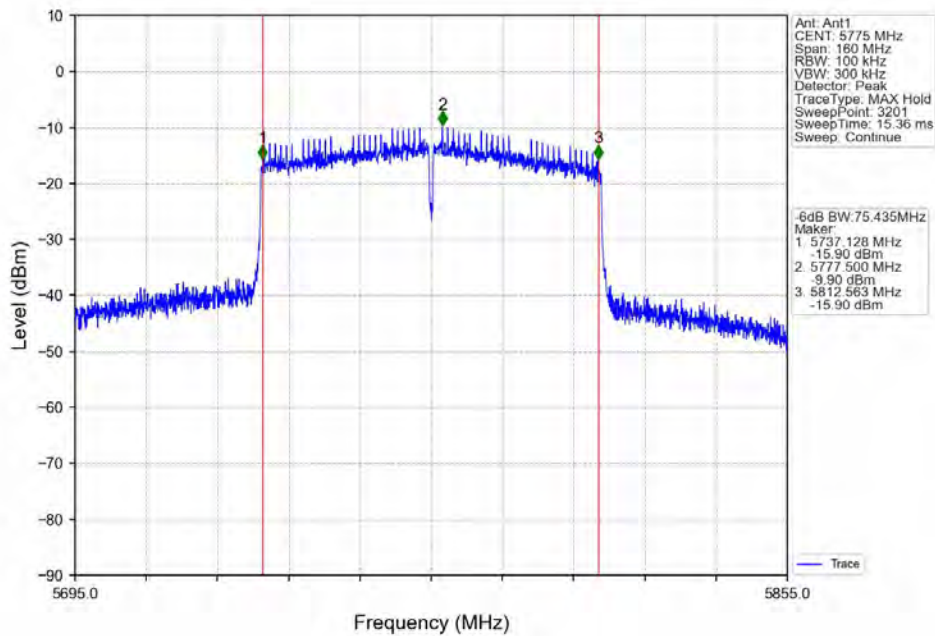
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

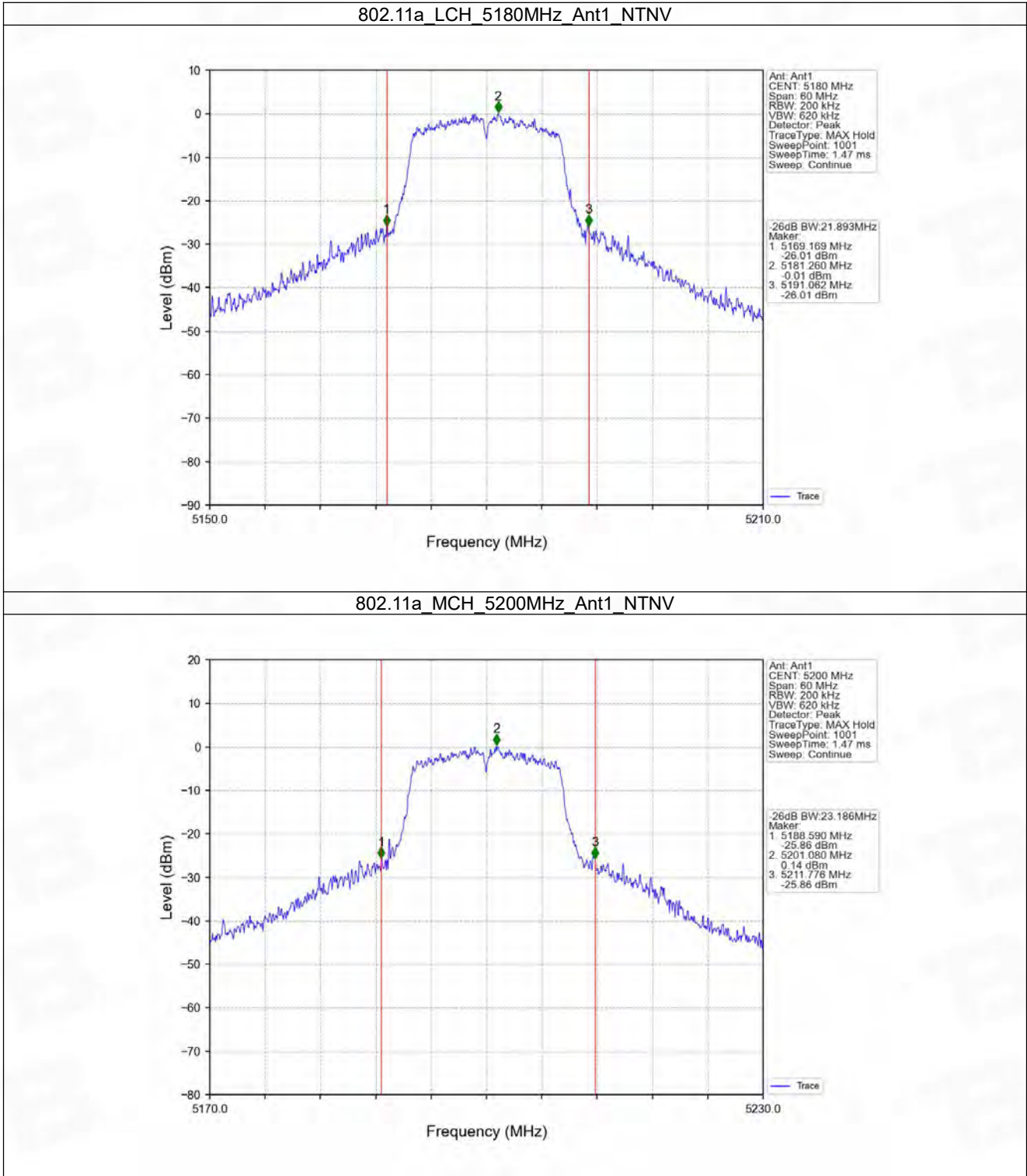


2.3 26dB BW

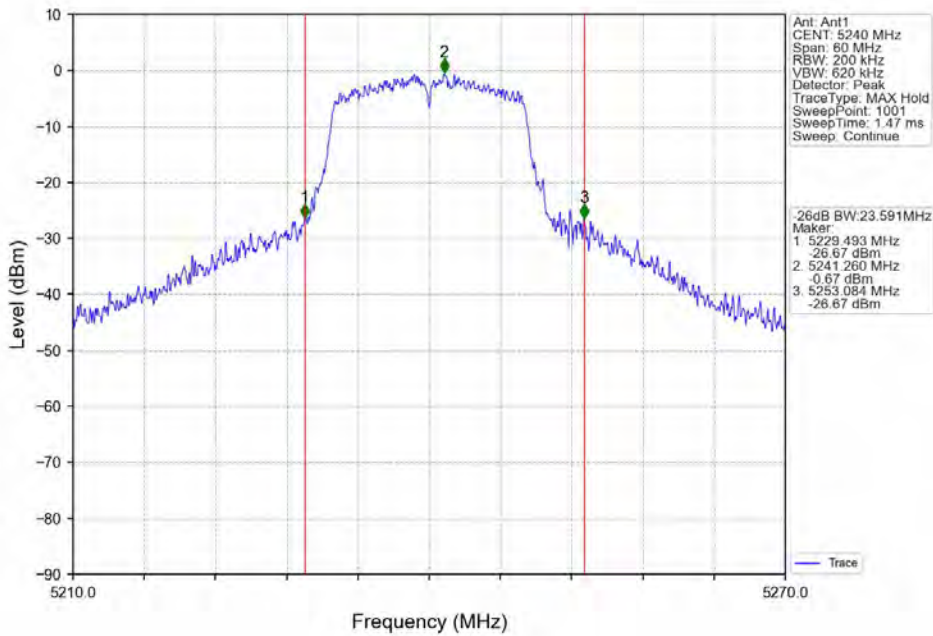
2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	21.893	/	Pass
		5200	1	23.186	/	Pass
		5240	1	23.591	/	Pass
802.11n (HT20)	SISO	5180	1	24.613	/	Pass
		5200	1	22.137	/	Pass
		5240	1	23.018	/	Pass
802.11n (HT40)	SISO	5190	1	56.657	/	Pass
		5230	1	46.289	/	Pass
802.11ac (VHT20)	SISO	5180	1	19.923	/	Pass
		5200	1	19.939	/	Pass
		5240	1	20.147	/	Pass
802.11ac (VHT40)	SISO	5190	1	40.299	/	Pass
		5230	1	39.893	/	Pass
802.11ac (VHT80)	SISO	5210	1	80.820	/	Pass

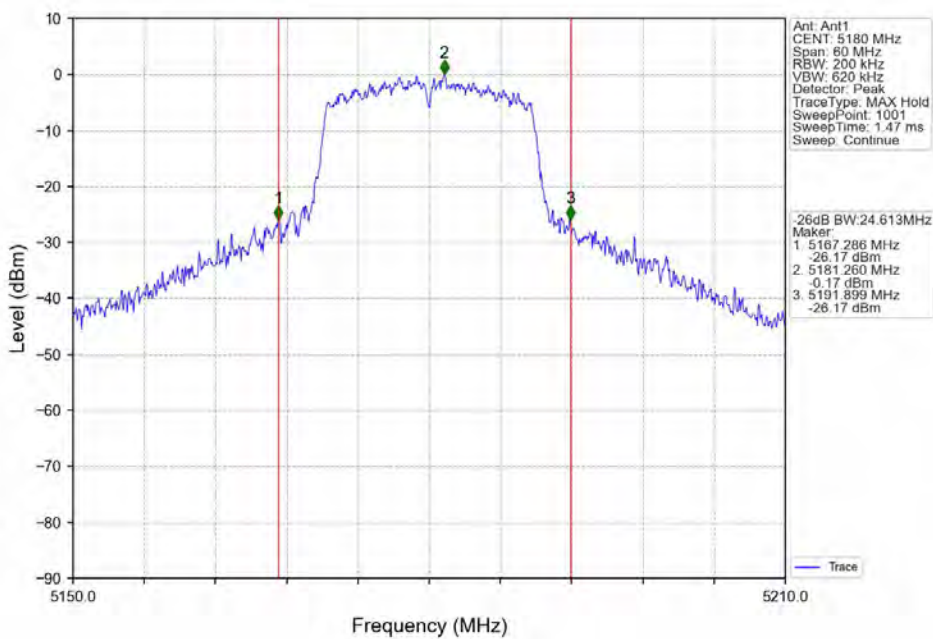
2.3.2 Test Graph



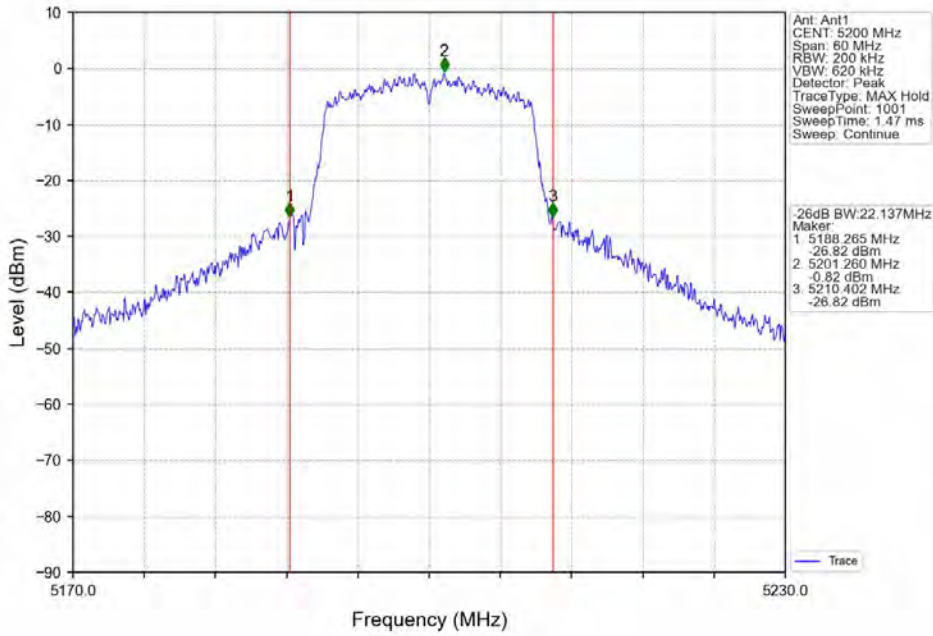
802.11a_HCH_5240MHz_Ant1_NTNV



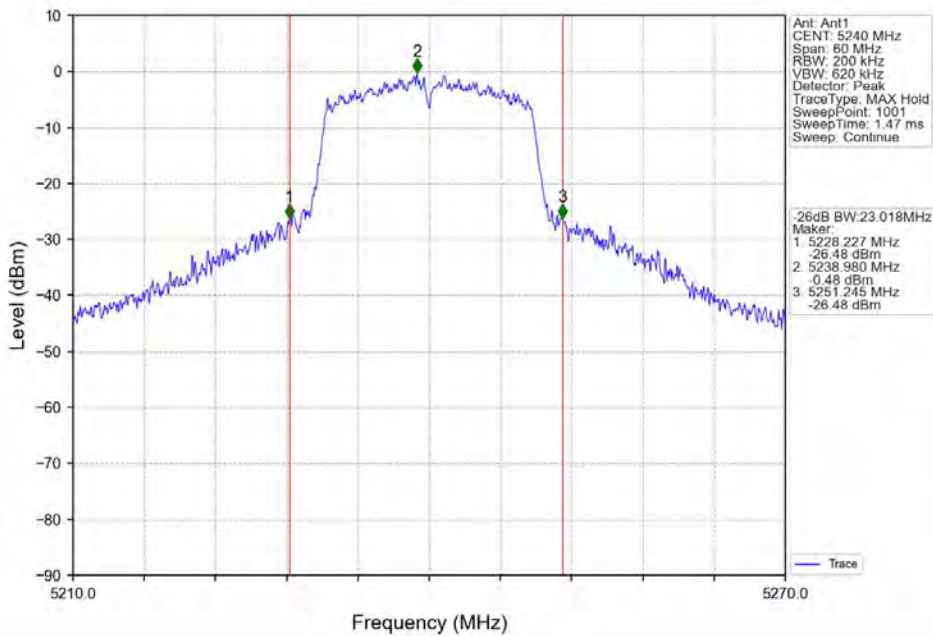
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



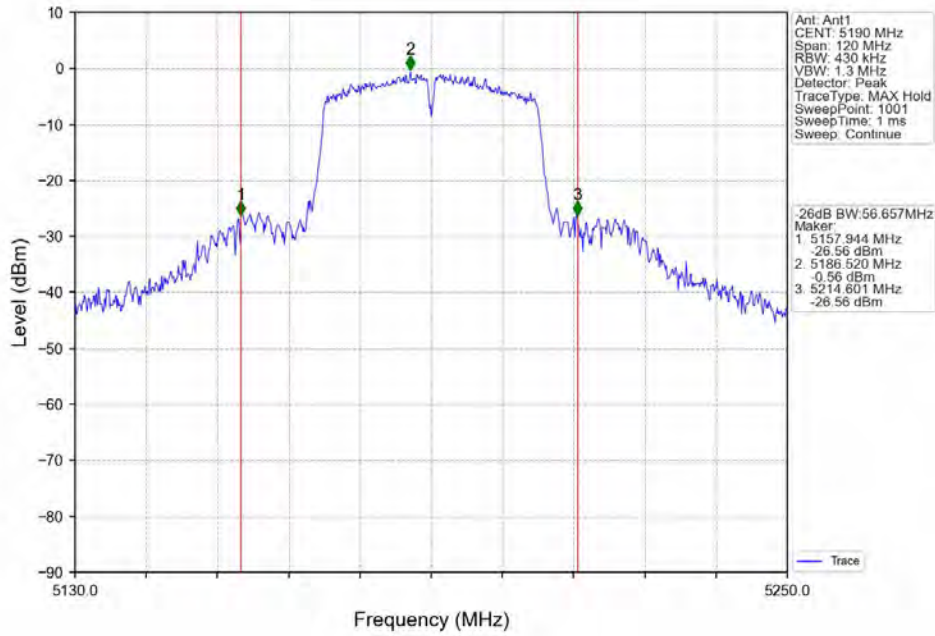
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



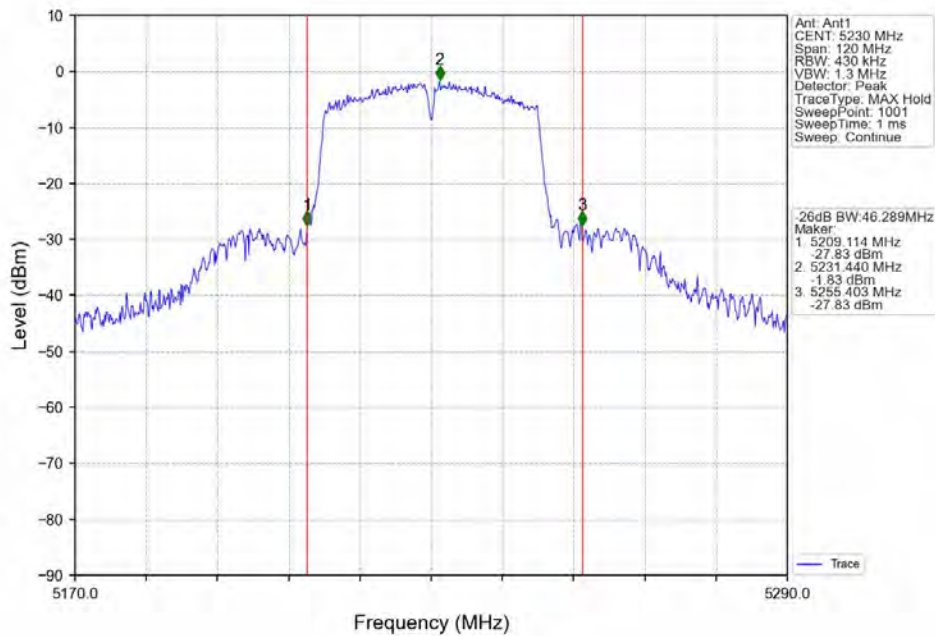
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



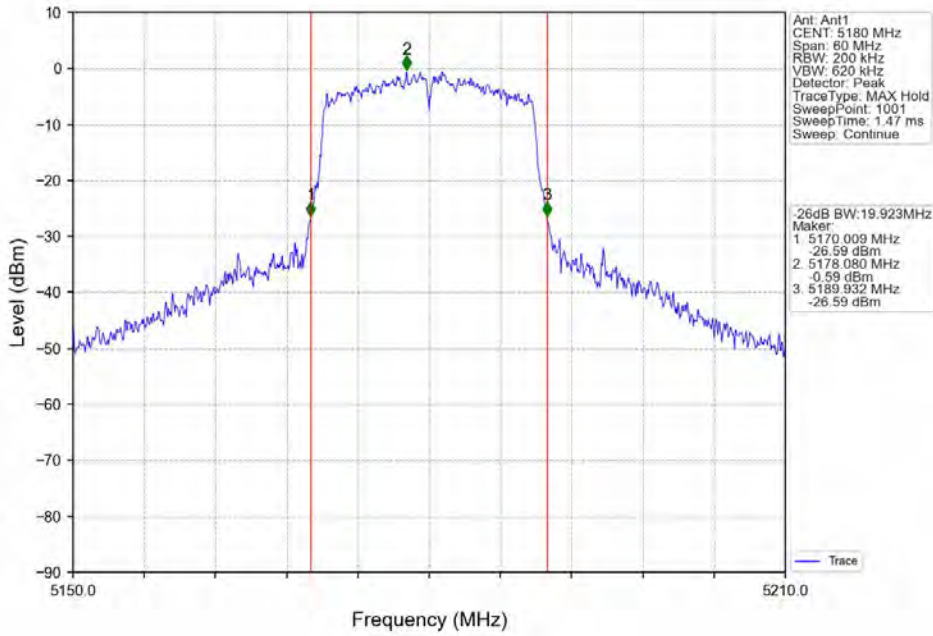
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



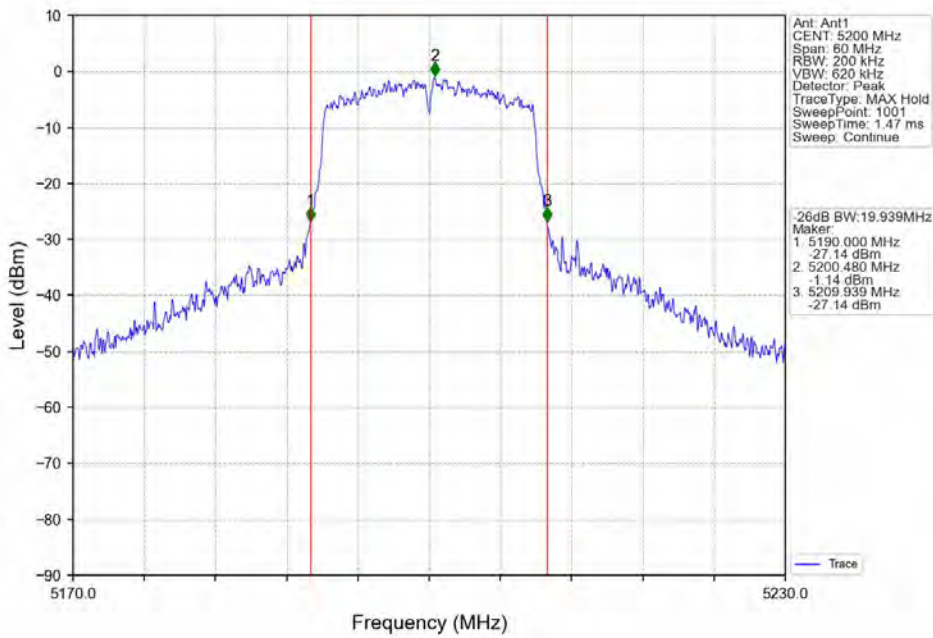
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



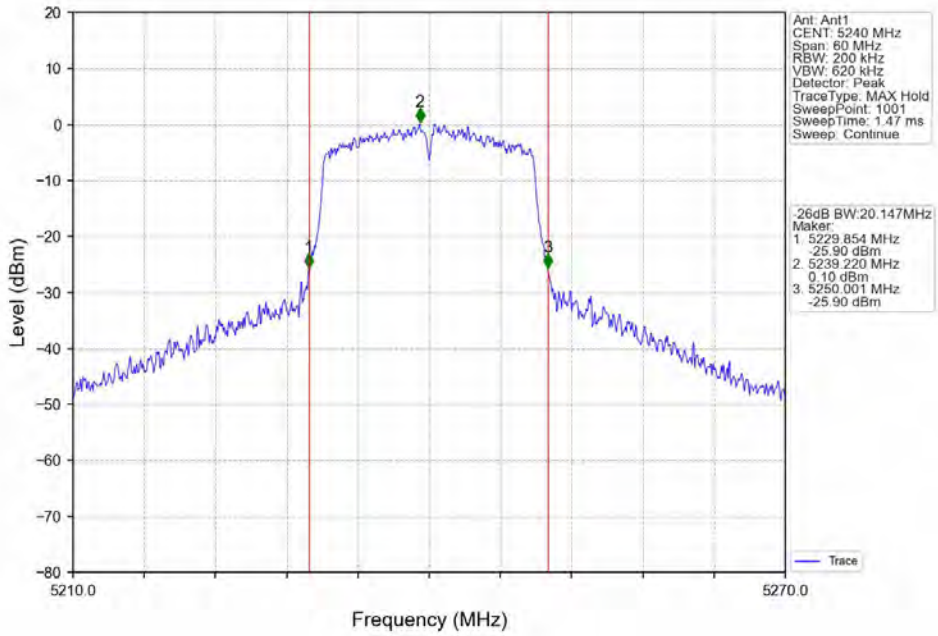
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



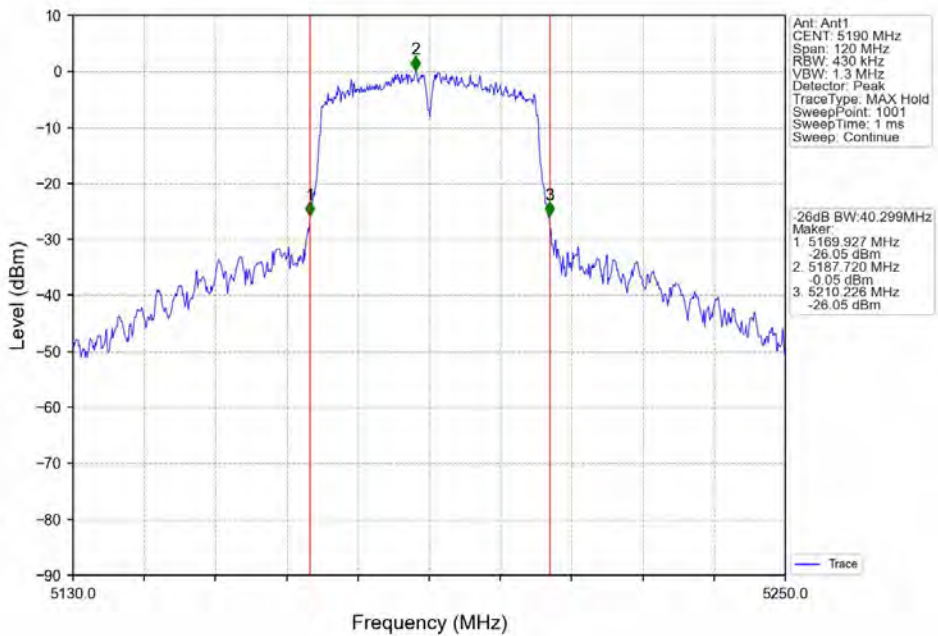
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



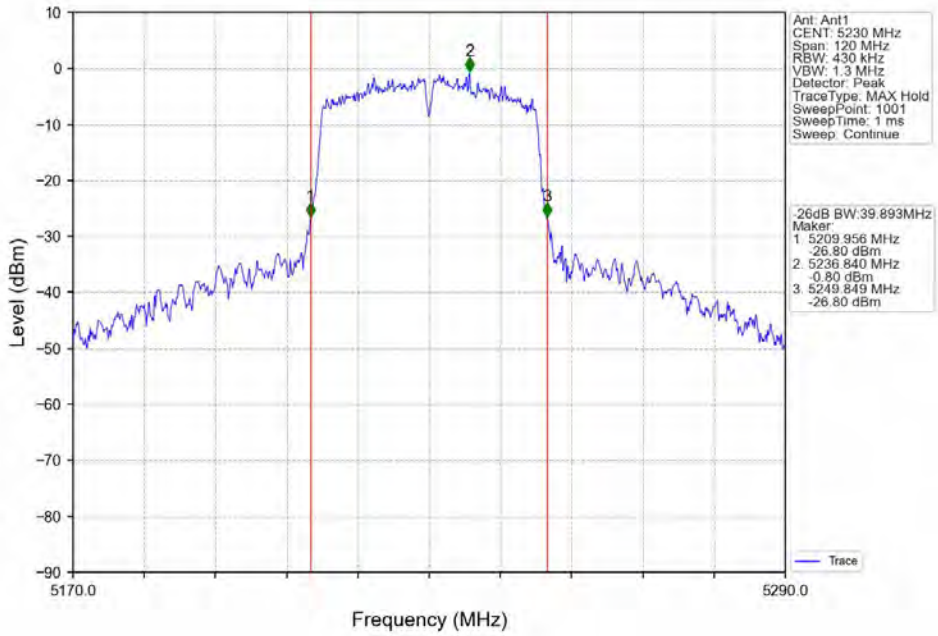
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



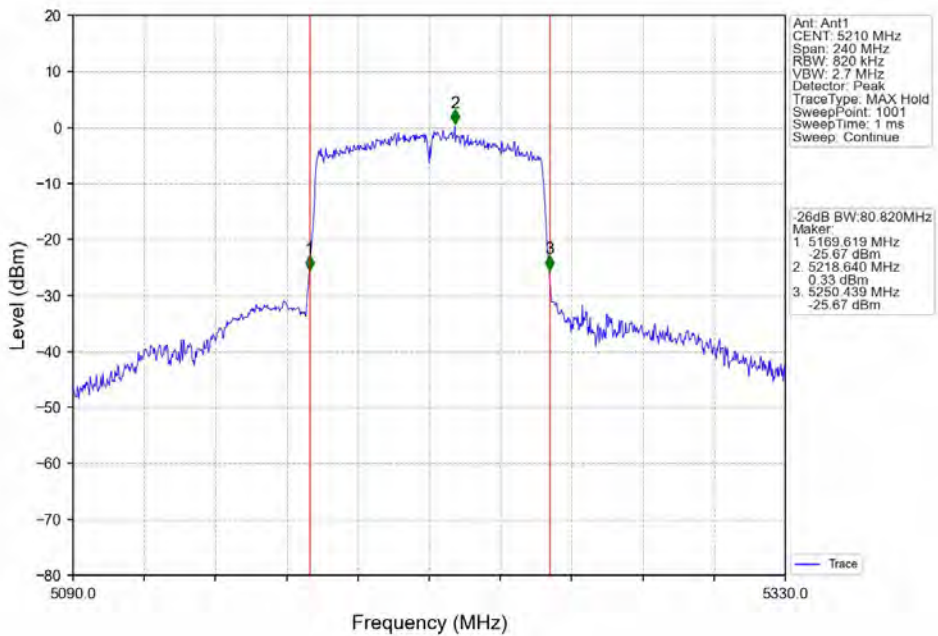
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



3. Maximum Conducted Output Power

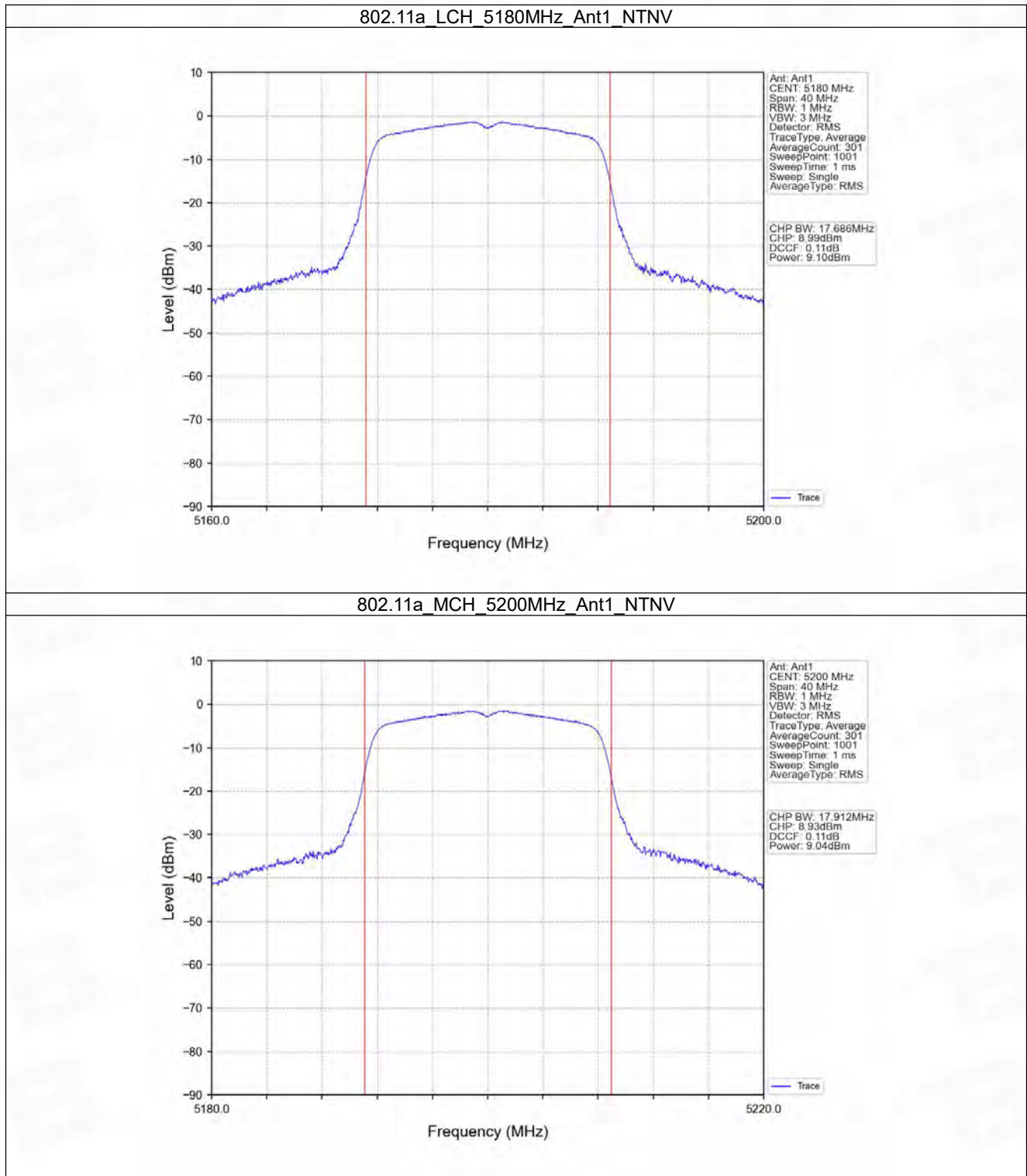
3.1 Power

3.1.1 Test Result

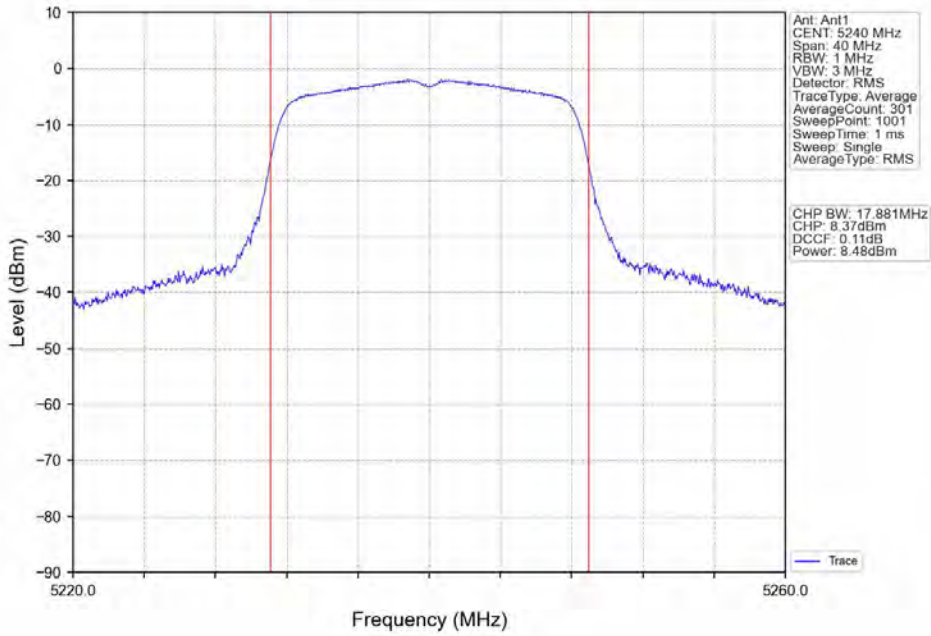
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	9.10	<=23.98	Pass
		5200	9.04	<=23.98	Pass
		5240	8.48	<=23.98	Pass
		5745	7.23	<=30	Pass
		5785	6.78	<=30	Pass
		5825	7.36	<=30	Pass
802.11n (HT20)	SISO	5180	8.88	<=23.98	Pass
		5200	8.14	<=23.98	Pass
		5240	8.24	<=23.98	Pass
		5745	6.73	<=30	Pass
		5785	6.18	<=30	Pass
		5825	6.85	<=30	Pass
802.11n (HT40)	SISO	5190	8.31	<=23.98	Pass
		5230	7.36	<=23.98	Pass
		5755	6.36	<=30	Pass
		5795	6.44	<=30	Pass
802.11ac (VHT20)	SISO	5180	7.84	<=23.98	Pass
		5200	7.89	<=23.98	Pass
		5240	8.70	<=23.98	Pass
		5745	5.94	<=30	Pass
		5785	6.03	<=30	Pass
		5825	6.29	<=30	Pass
802.11ac (VHT40)	SISO	5190	8.89	<=23.98	Pass
		5230	13.60	<=23.98	Pass
		5755	4.87	<=30	Pass
		5795	5.65	<=30	Pass
802.11ac (VHT80)	SISO	5210	9.10	<=23.98	Pass
		5775	6.07	<=30	Pass

Note1: Antenna Gain: Ant1: -0.70dBi;

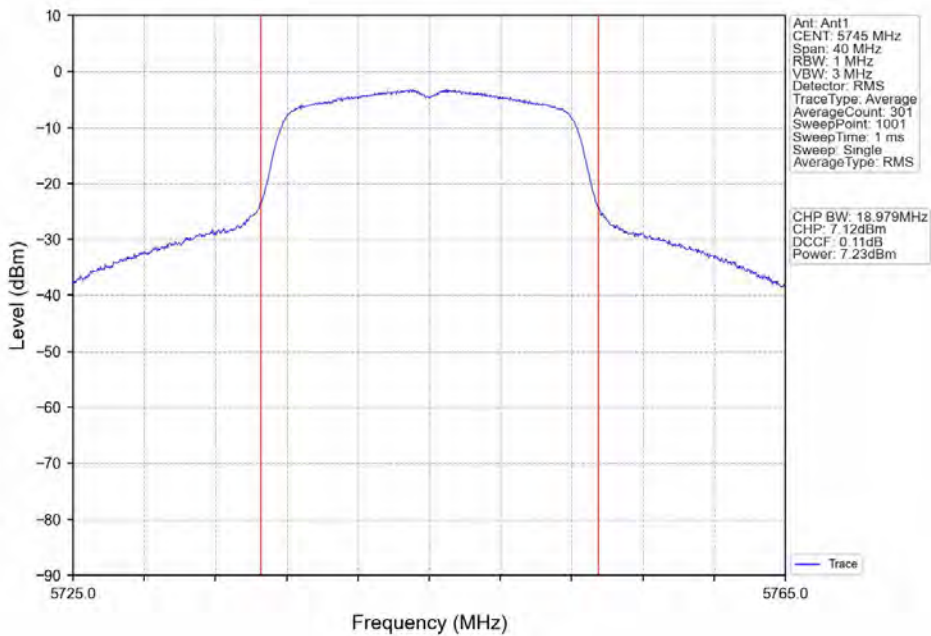
3.1.2 Test Graph



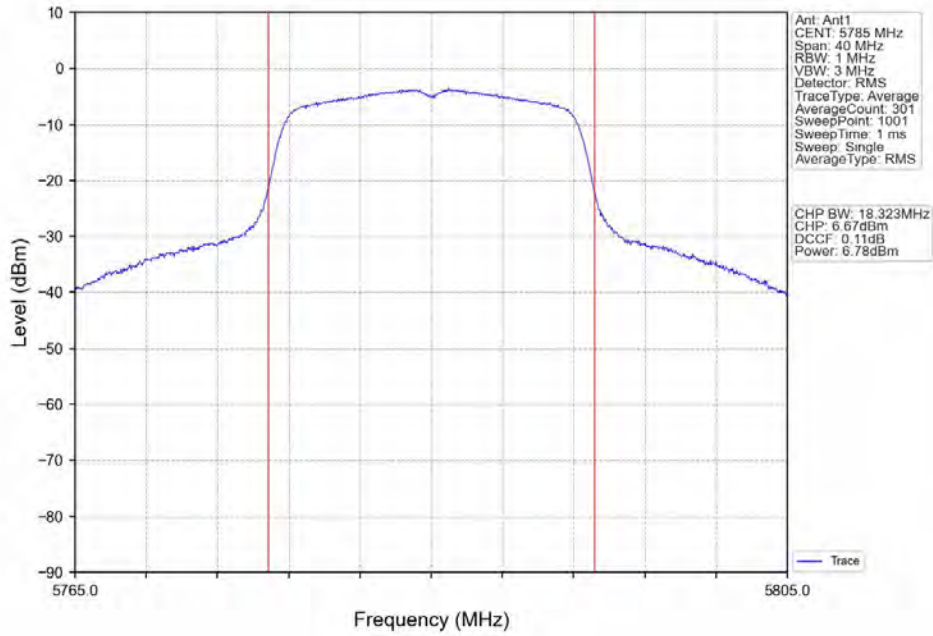
802.11a_HCH_5240MHz_Ant1_NTNV



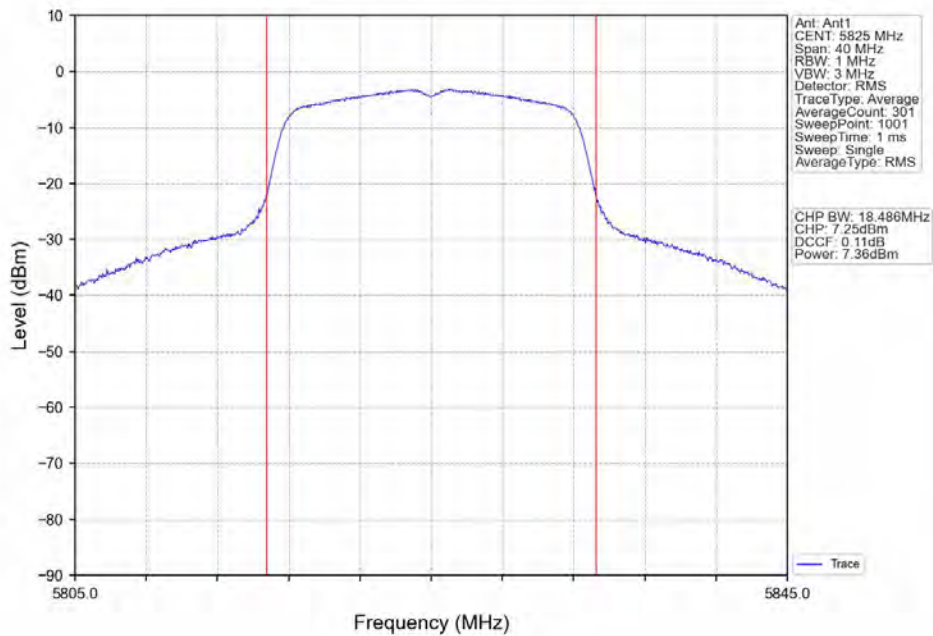
802.11a_LCH_5745MHz_Ant1_NTNV



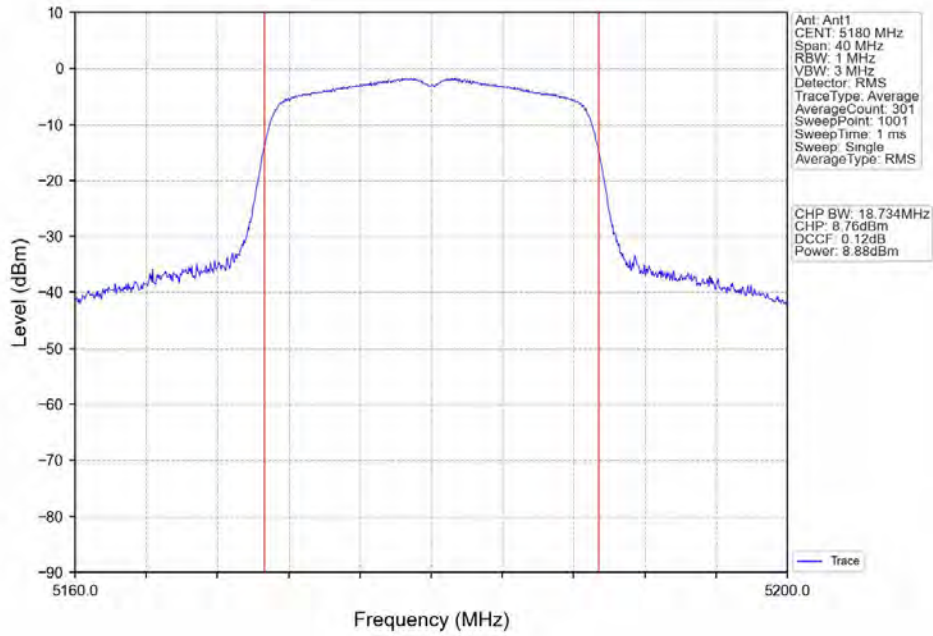
802.11a_MCH_5785MHz_Ant1_NTNV



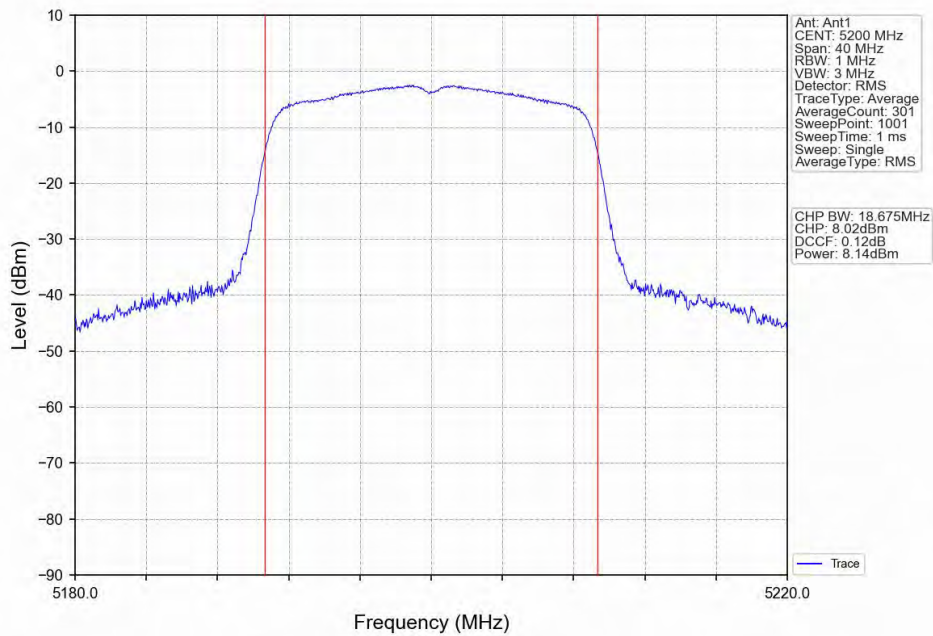
802.11a_HCH_5825MHz_Ant1_NTNV



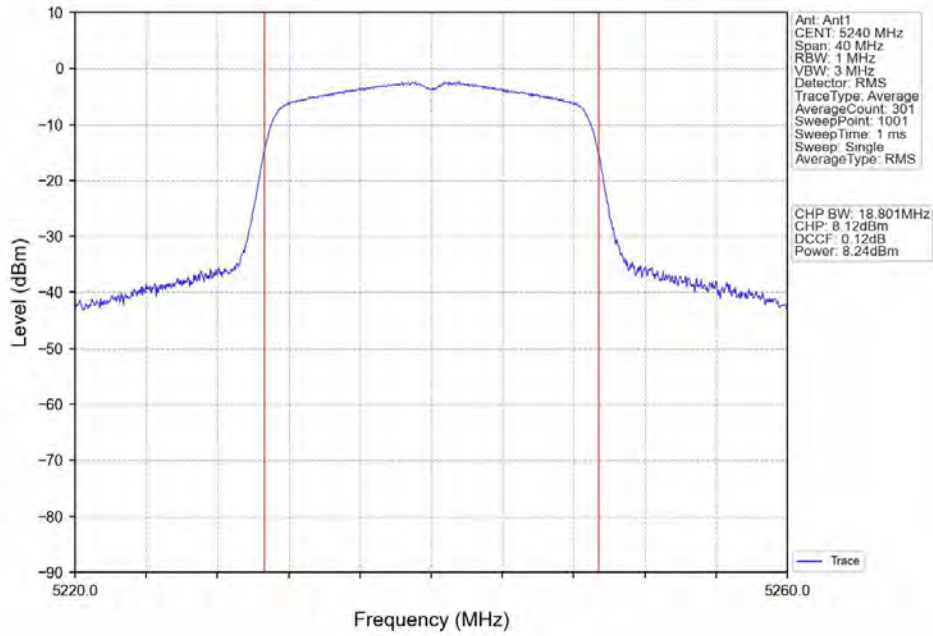
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



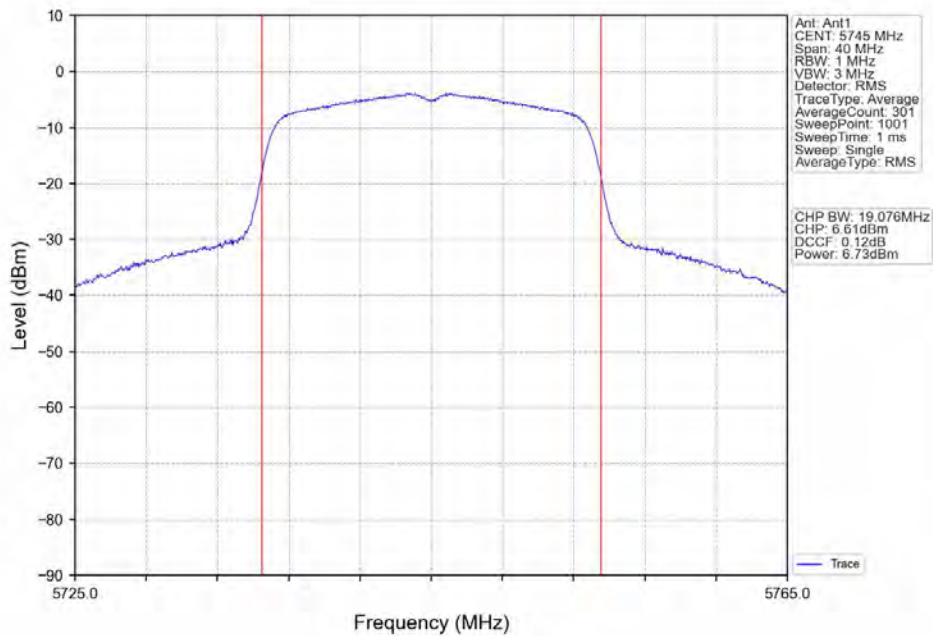
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



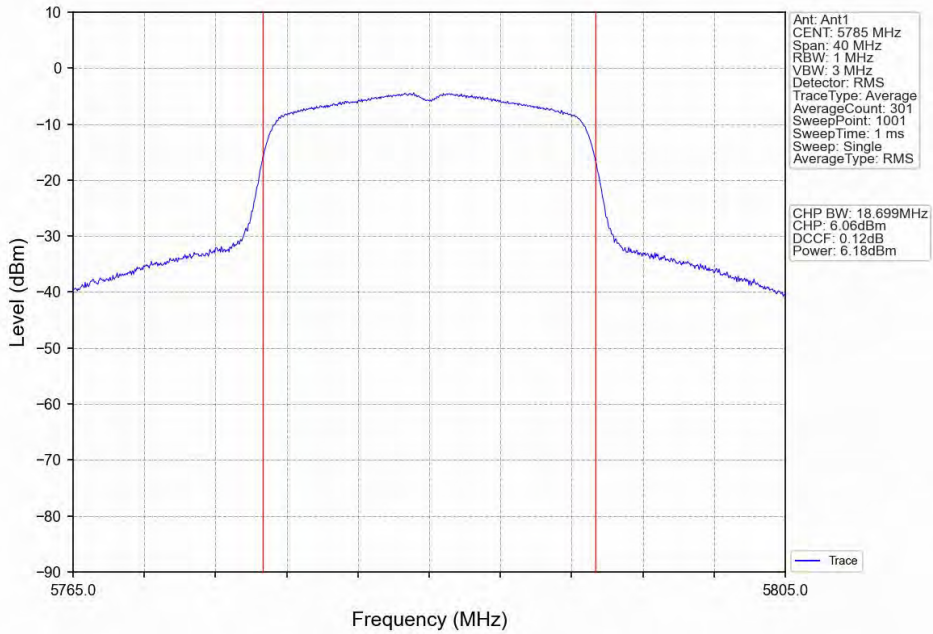
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



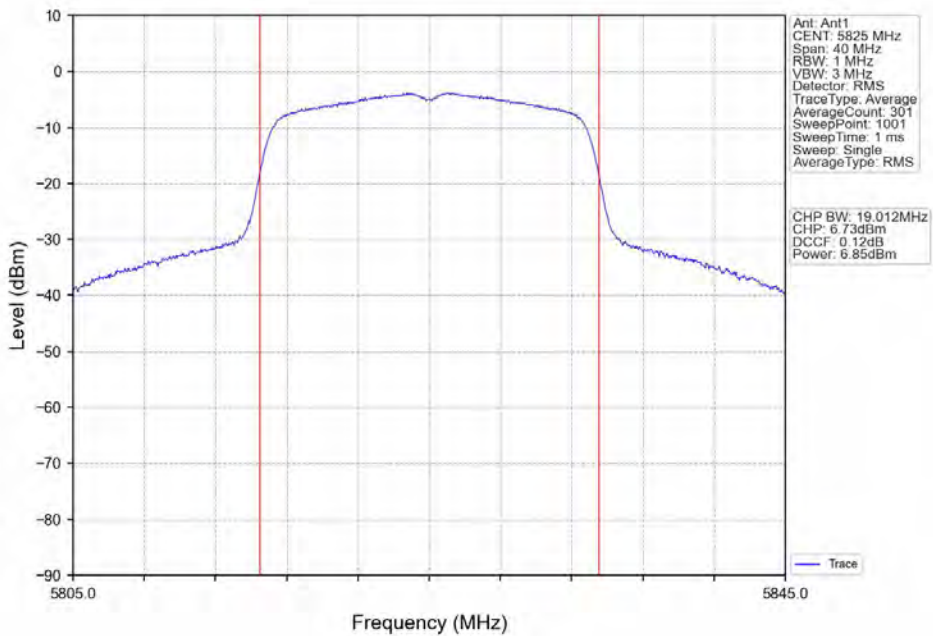
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



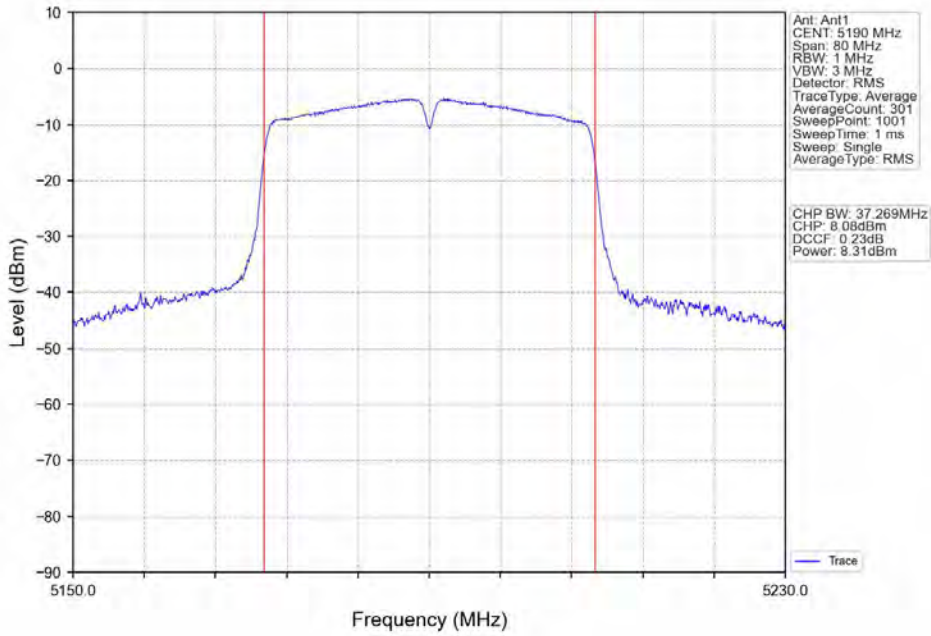
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



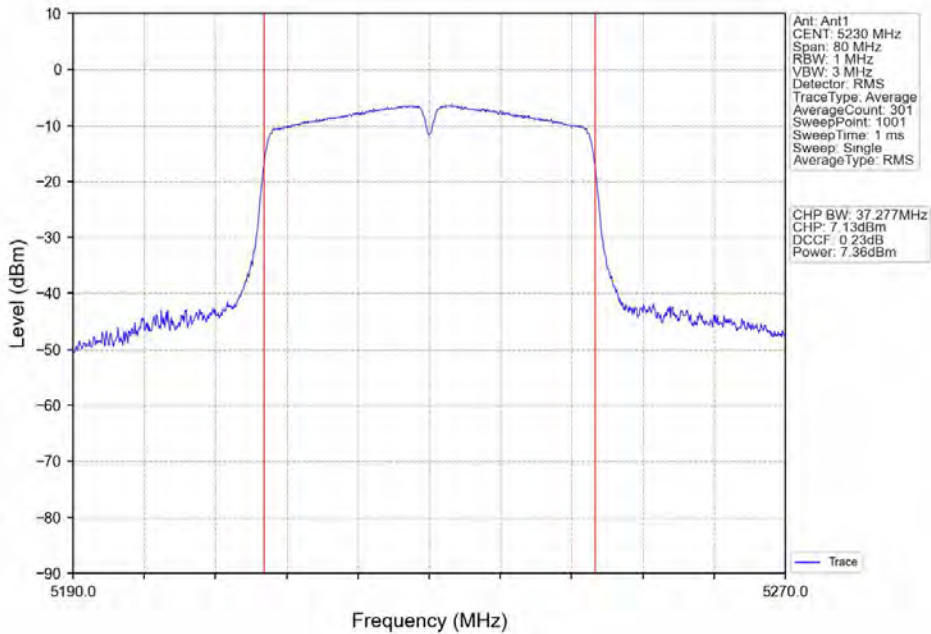
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



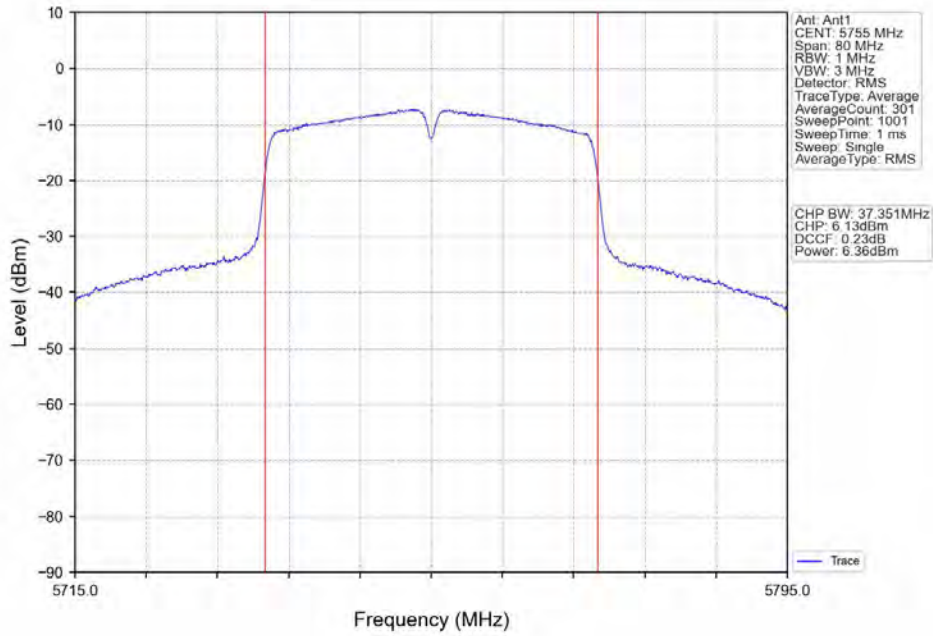
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



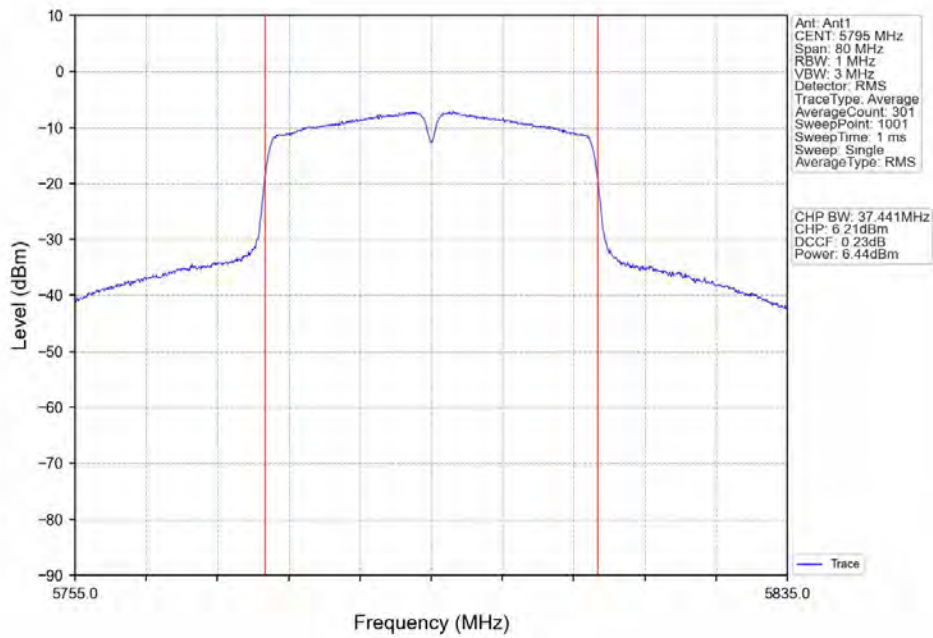
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

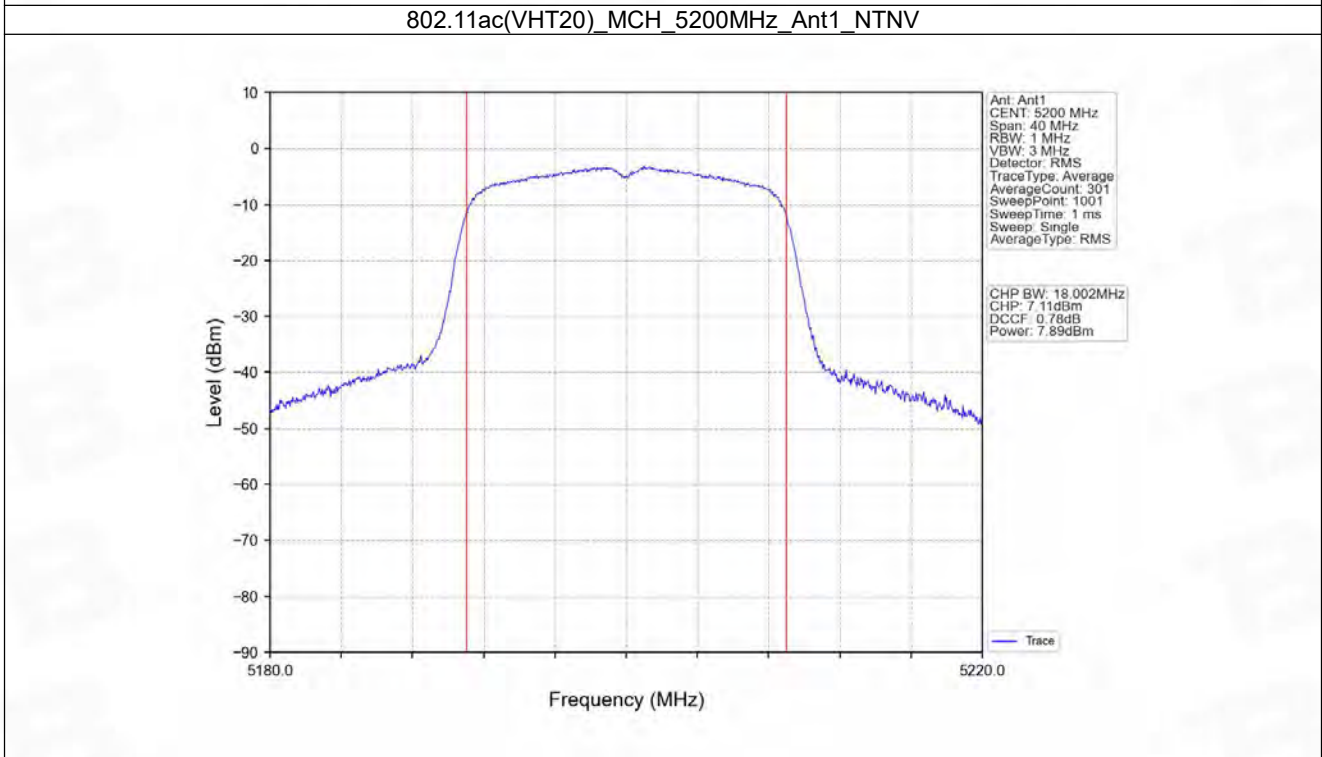
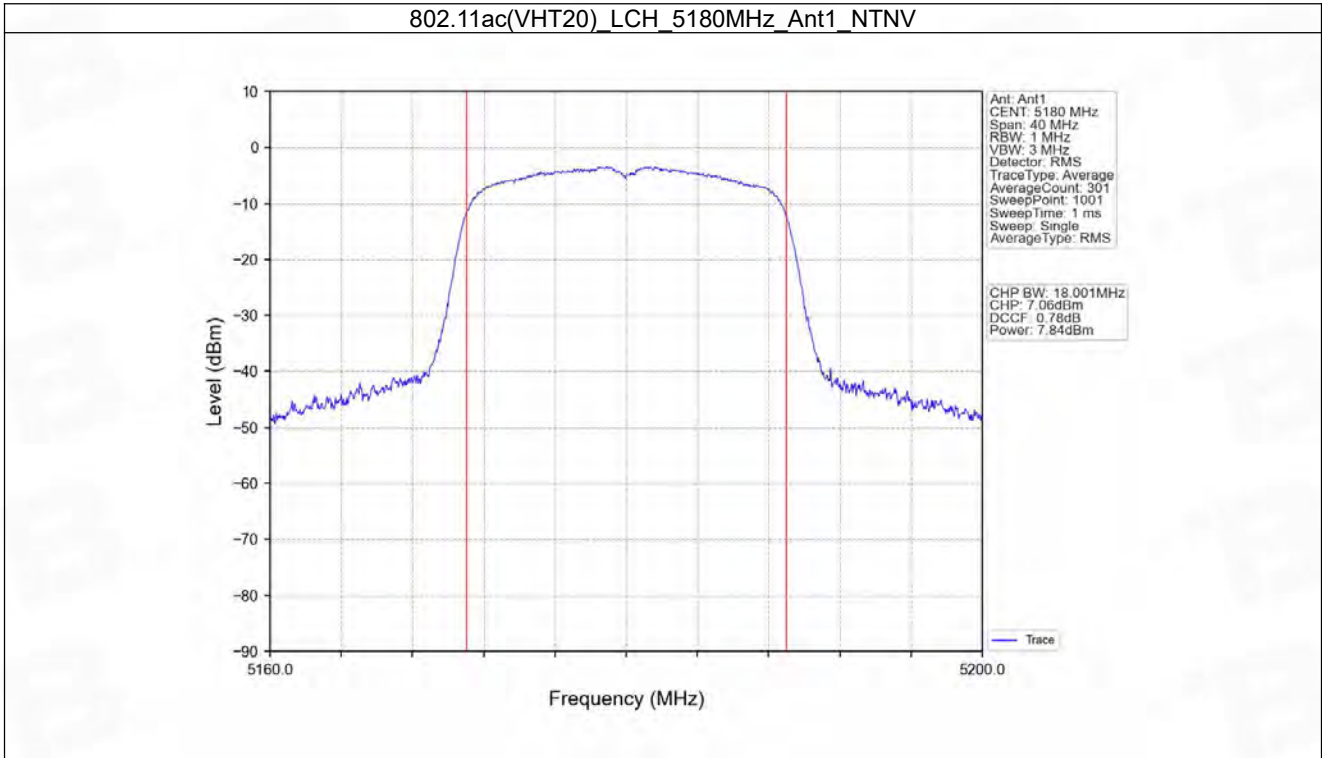


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

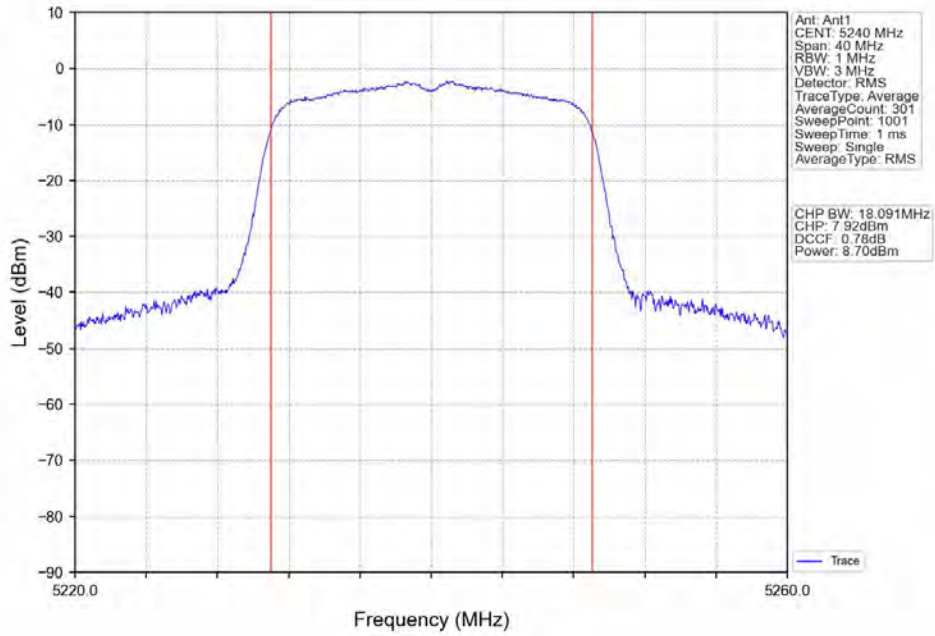


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

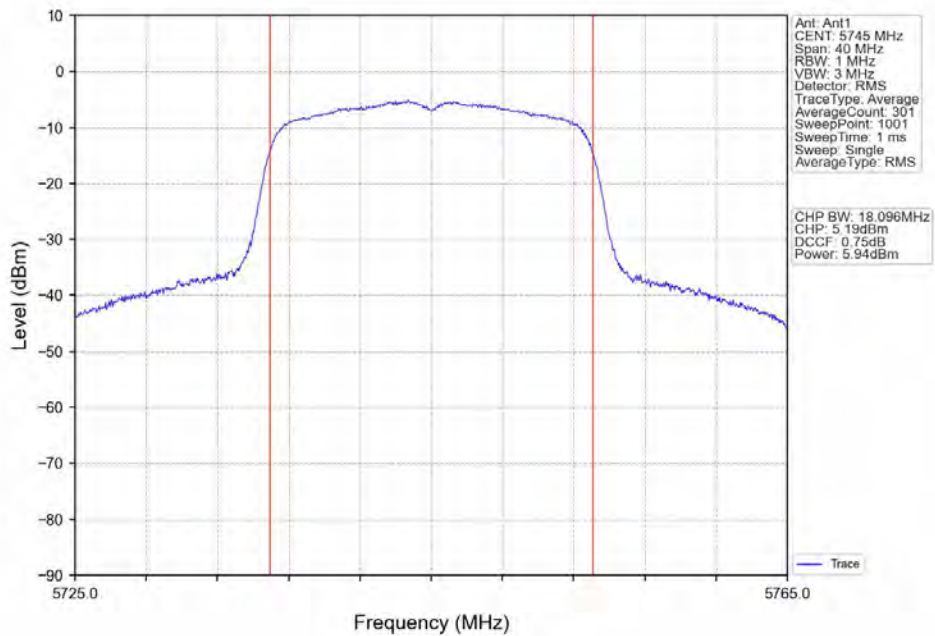




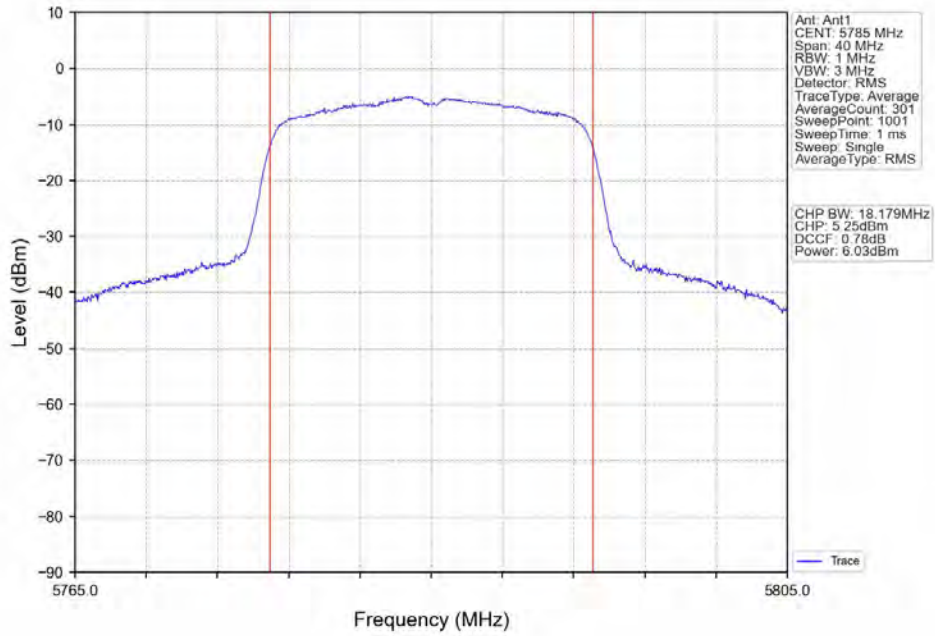
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



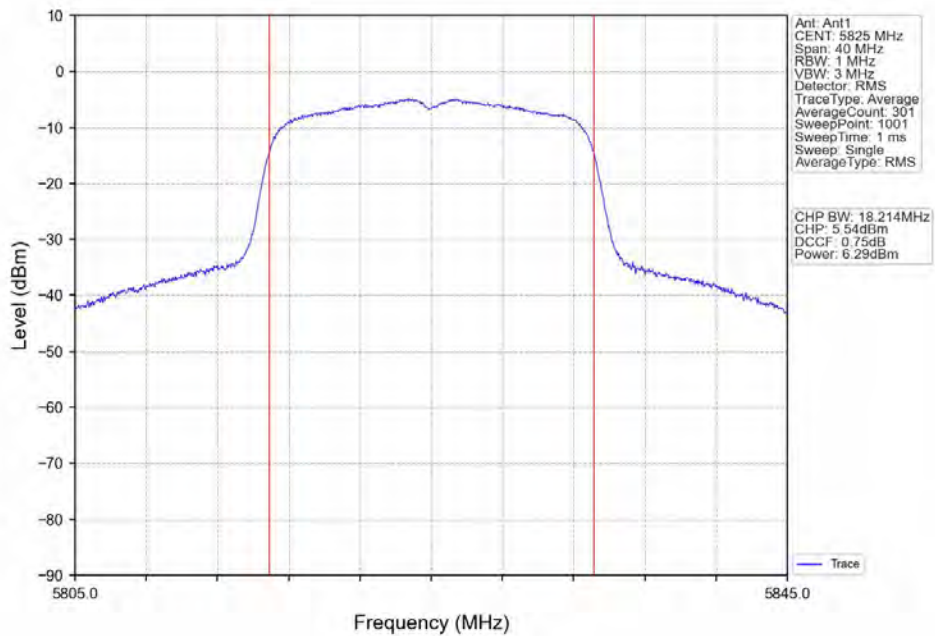
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



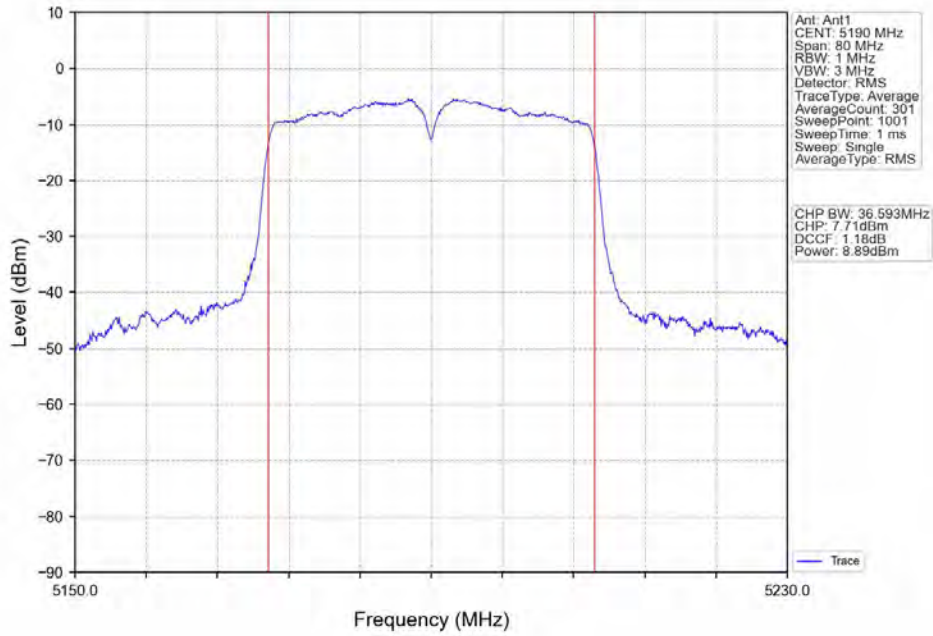
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



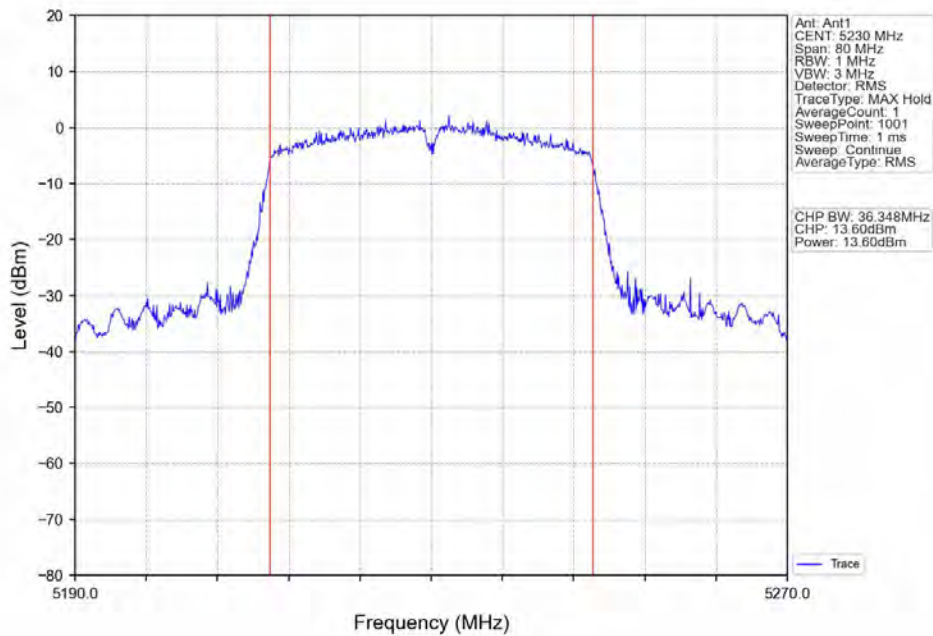
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



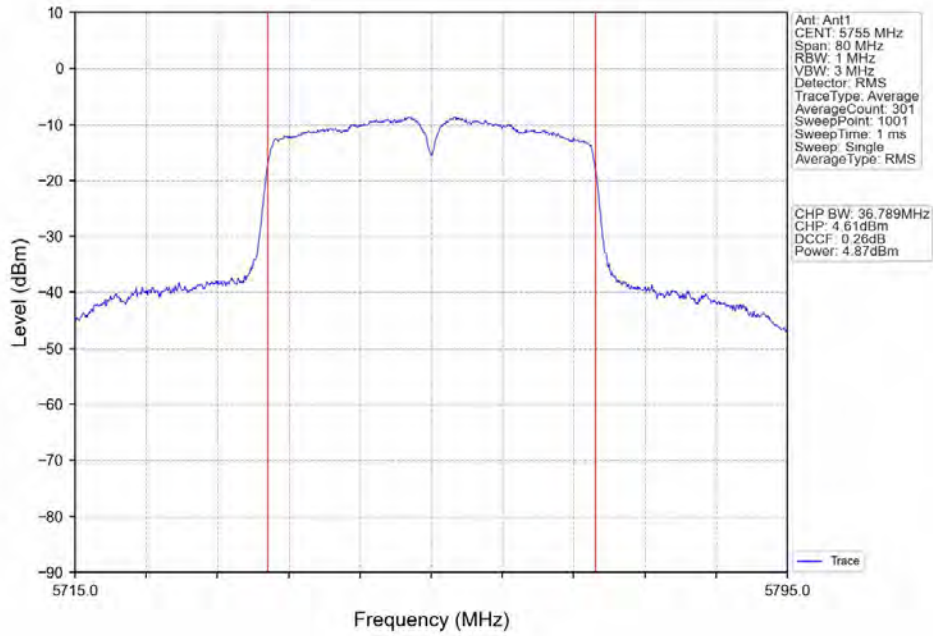
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



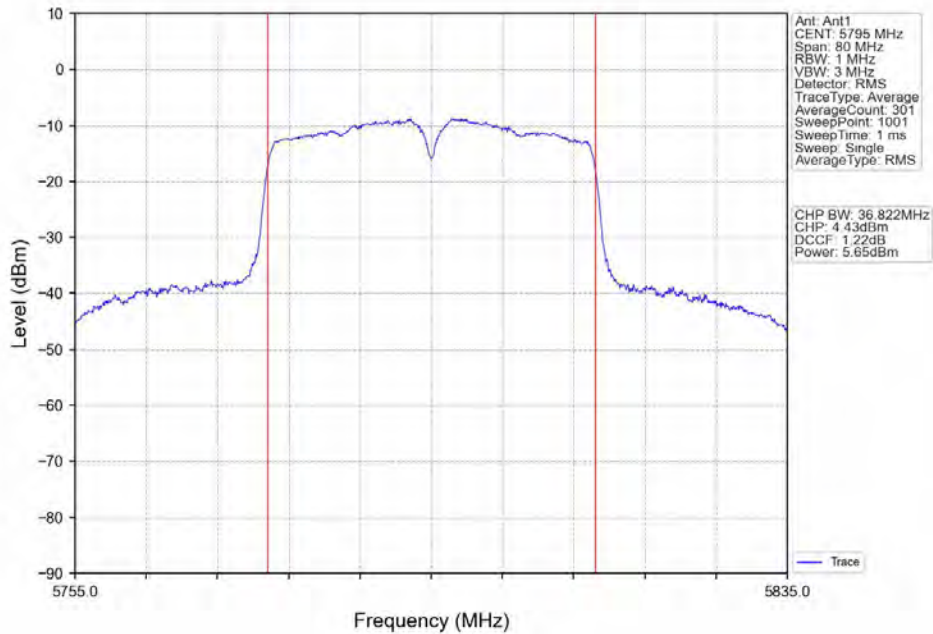
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



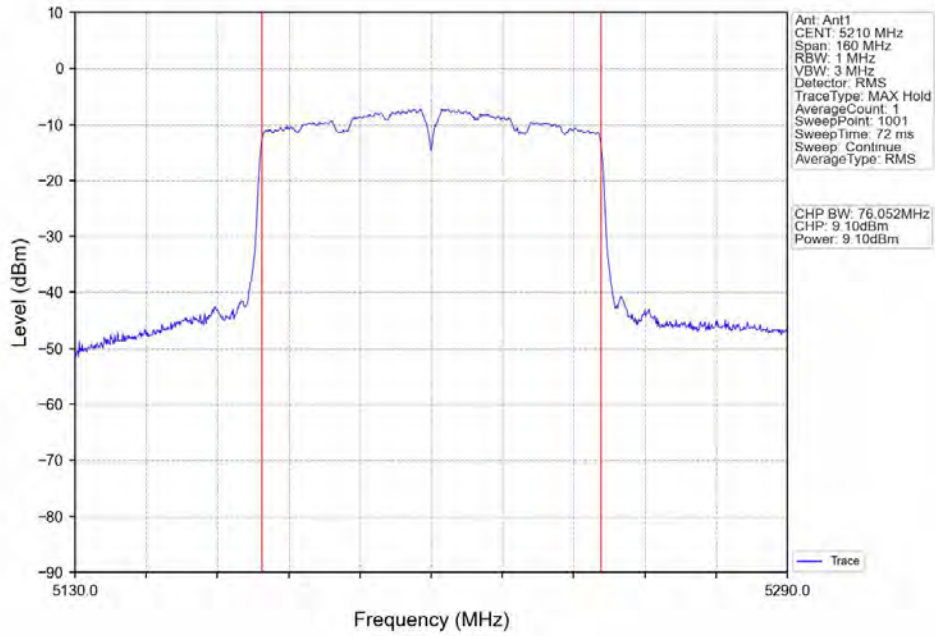
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



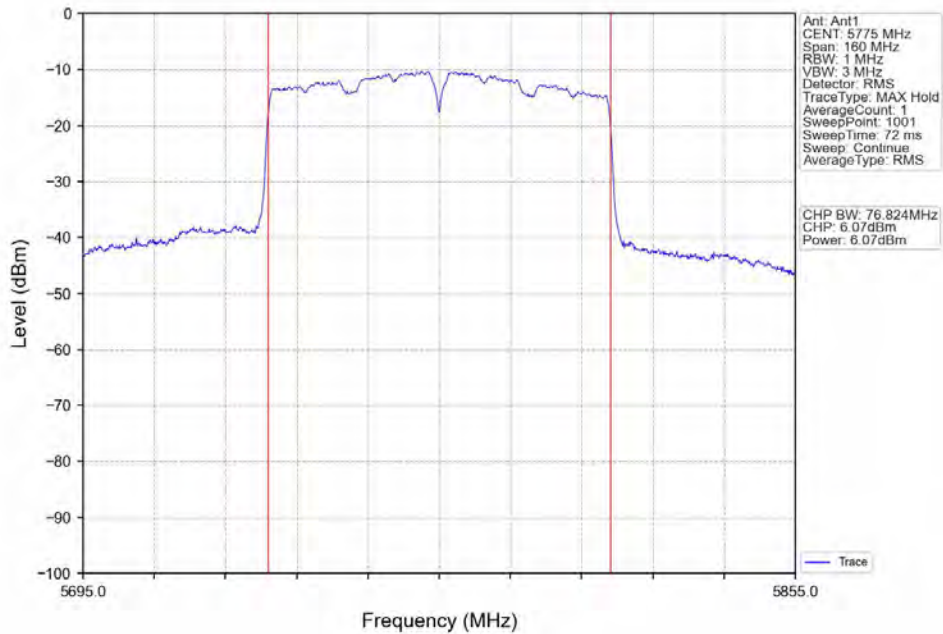
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



4. Maximum Power Spectral Density

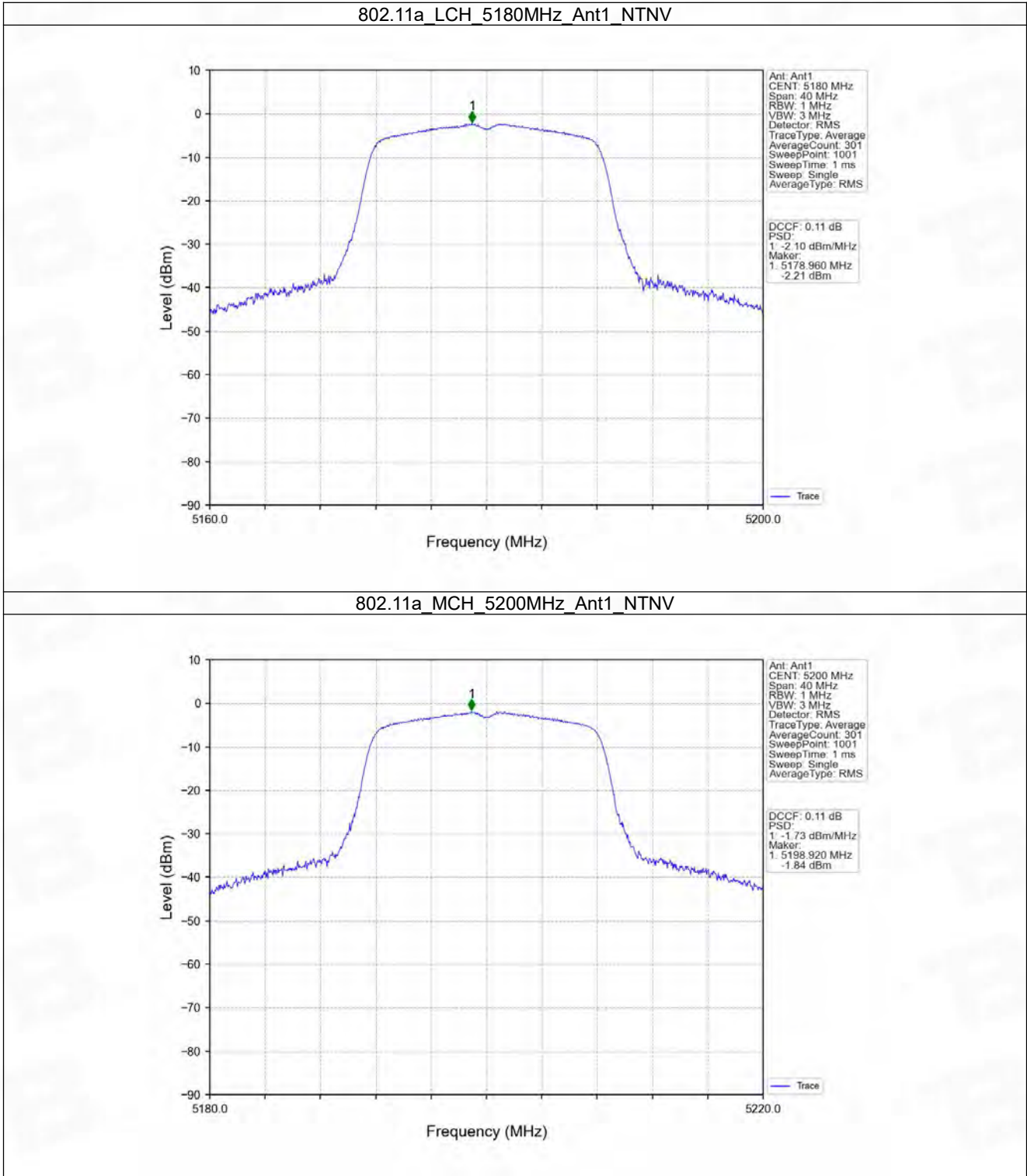
4.1 PSD

4.1.1 Test Result

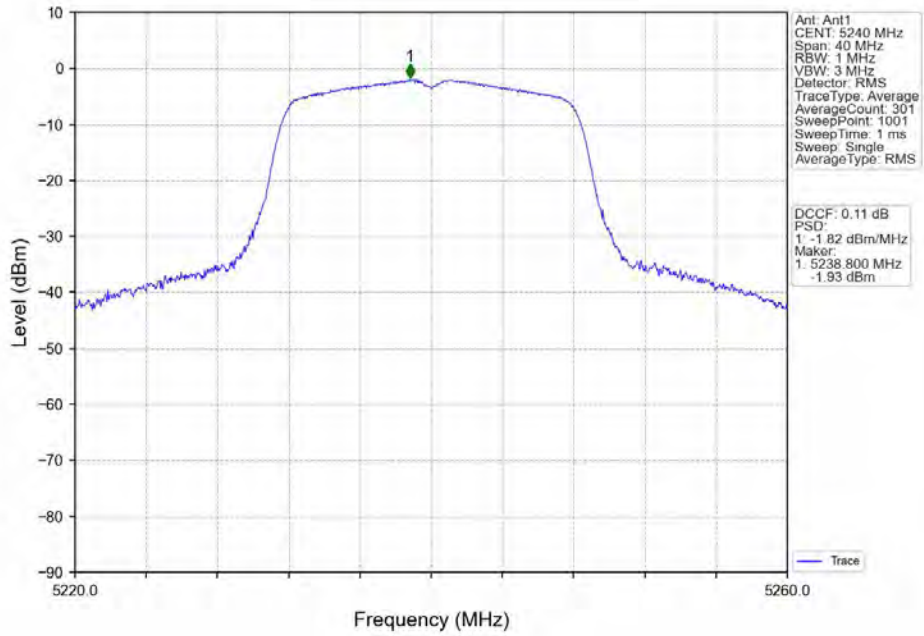
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-2.10	<=11	Pass
		5200	-1.73	<=11	Pass
		5240	-1.82	<=11	Pass
802.11n (HT20)	SISO	5180	-2.97	<=11	Pass
		5200	-3.19	<=11	Pass
		5240	-2.91	<=11	Pass
802.11n (HT40)	SISO	5190	-5.98	<=11	Pass
		5230	-6.61	<=11	Pass
802.11ac (VHT20)	SISO	5180	-3.31	<=11	Pass
		5200	-3.28	<=11	Pass
		5240	-4.14	<=11	Pass
802.11ac (VHT40)	SISO	5190	-5.73	<=11	Pass
		5230	-1.15	<=11	Pass
802.11ac (VHT80)	SISO	5210	-9.54	<=11	Pass

Note1: Antenna Gain: Ant1: -0.70dBi;

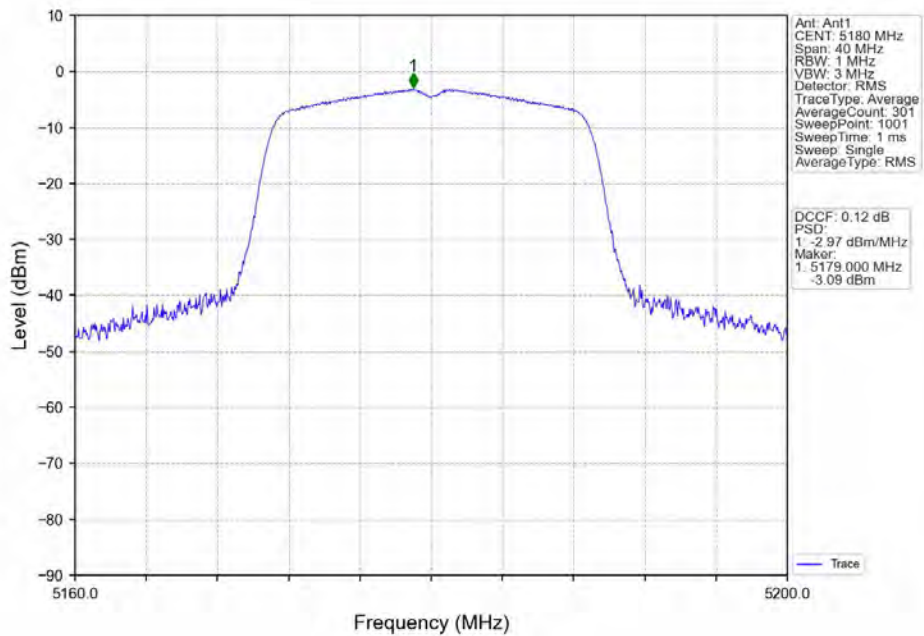
4.1.2 Test Graph



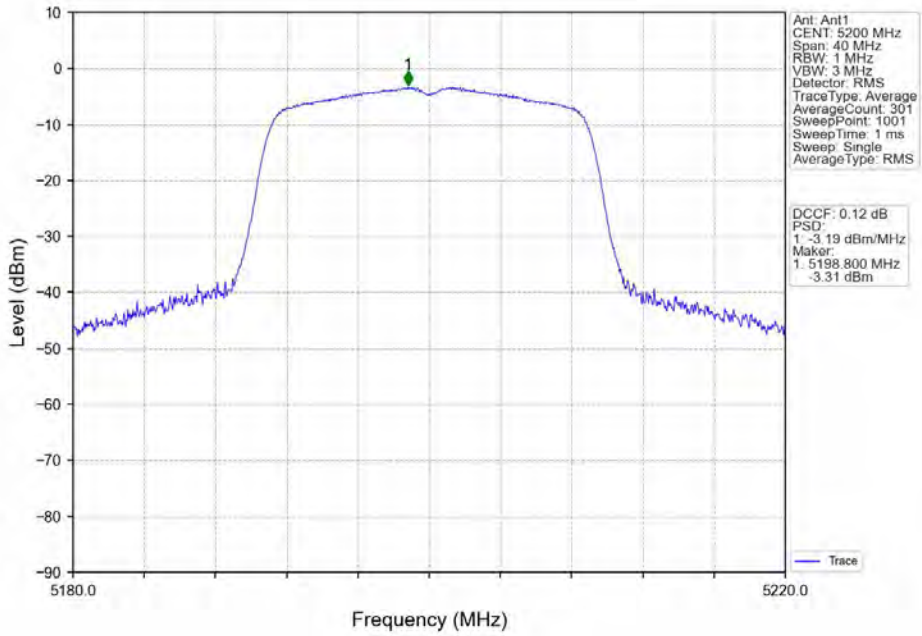
802.11a_HCH_5240MHz_Ant1_NTNV



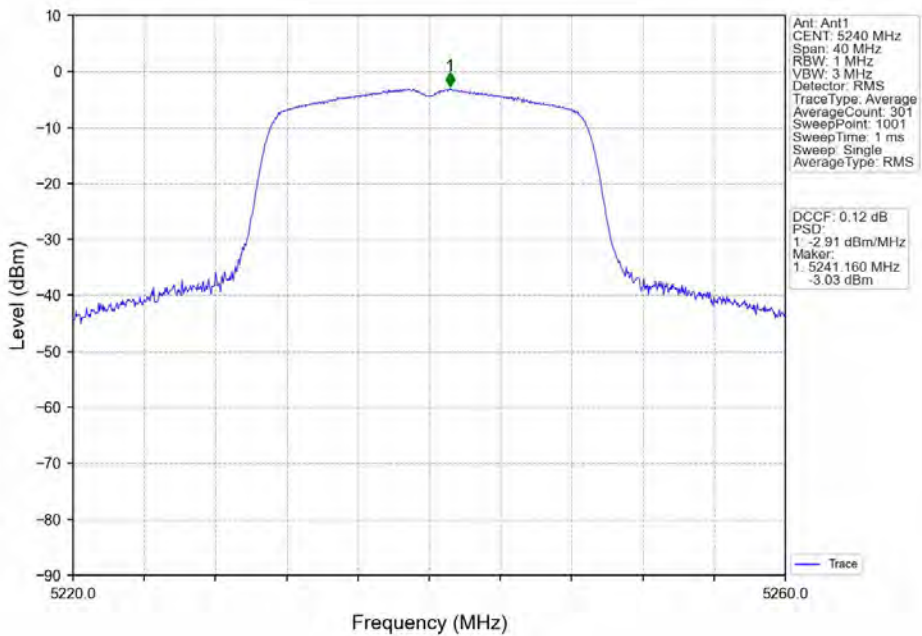
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



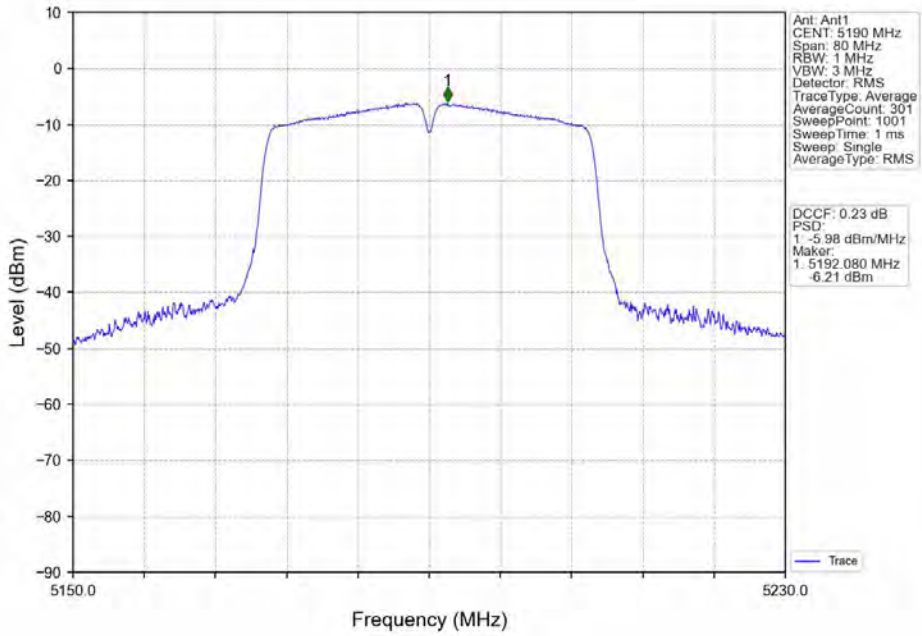
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



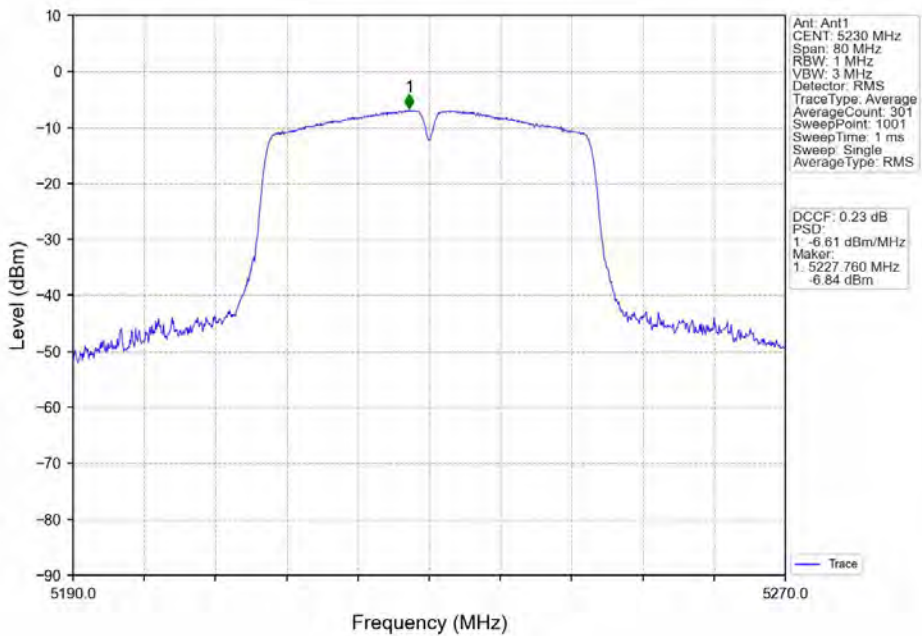
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



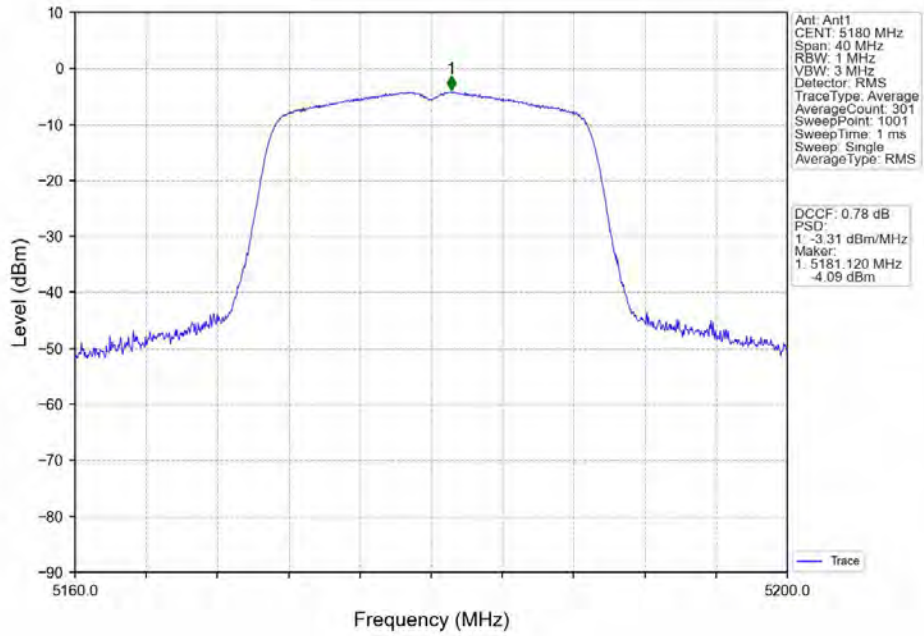
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



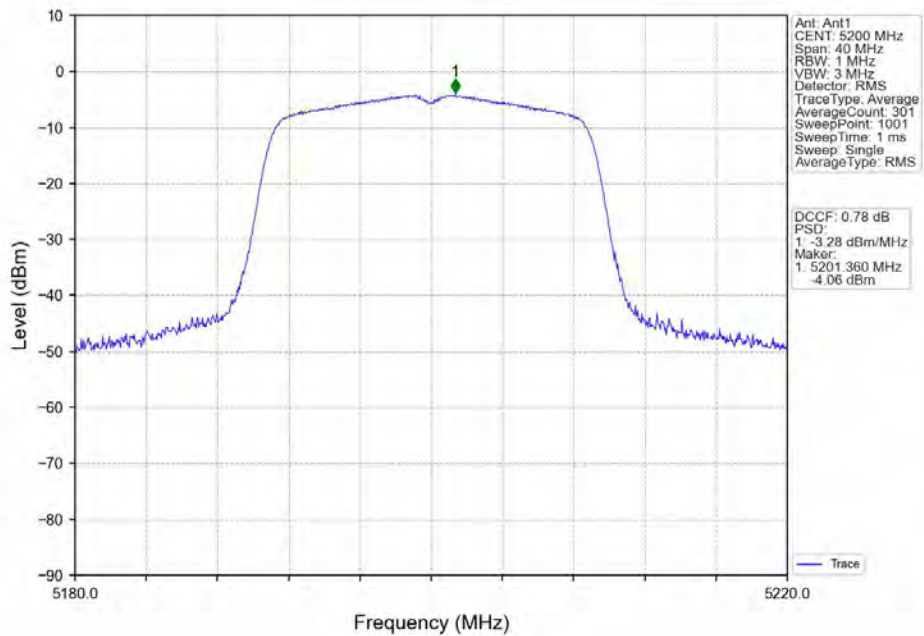
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



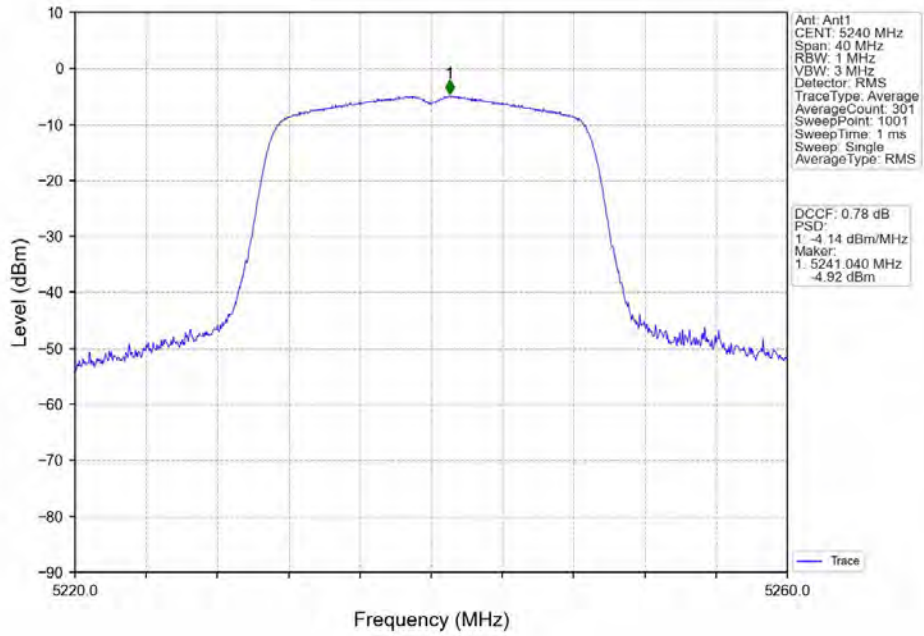
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



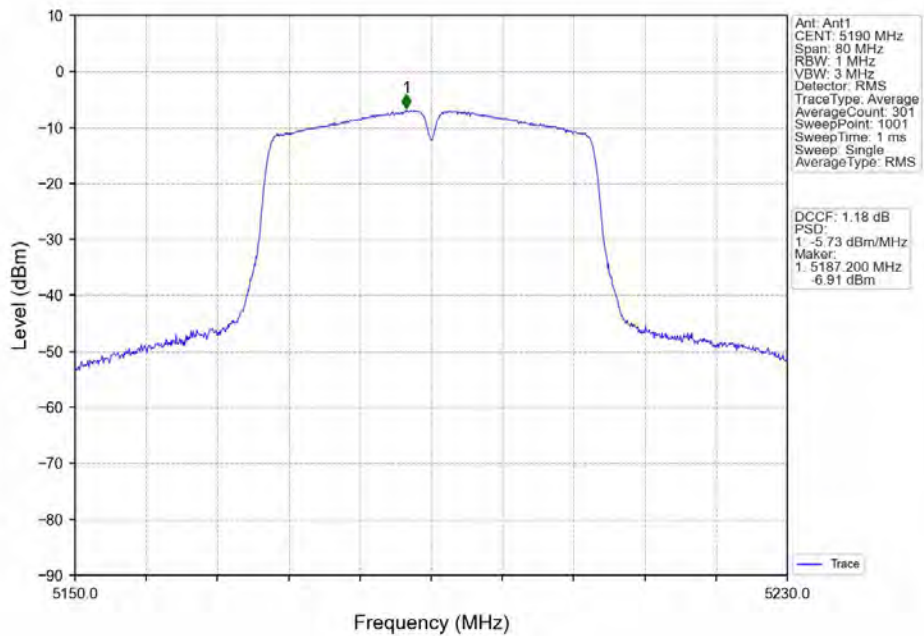
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



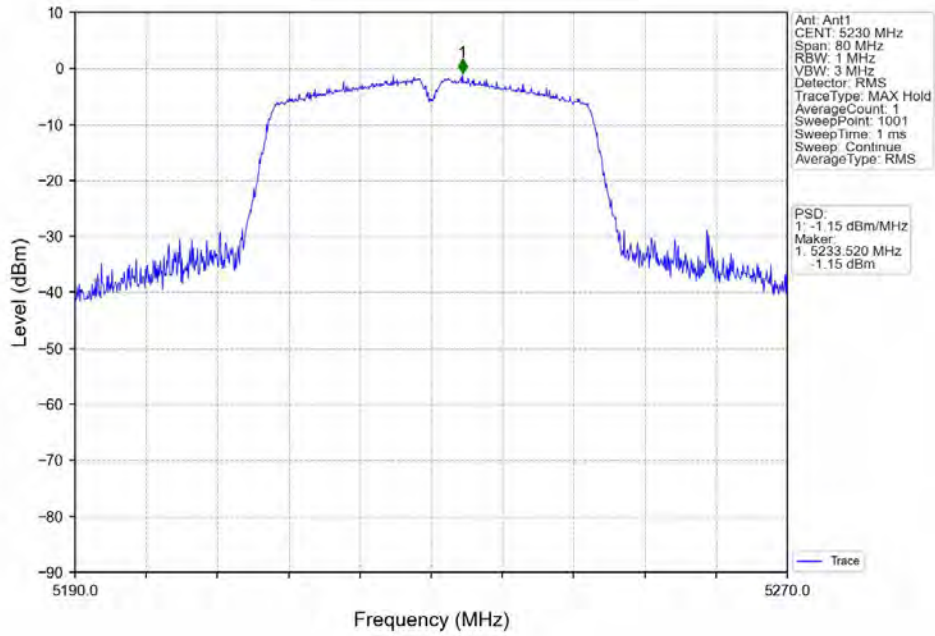
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



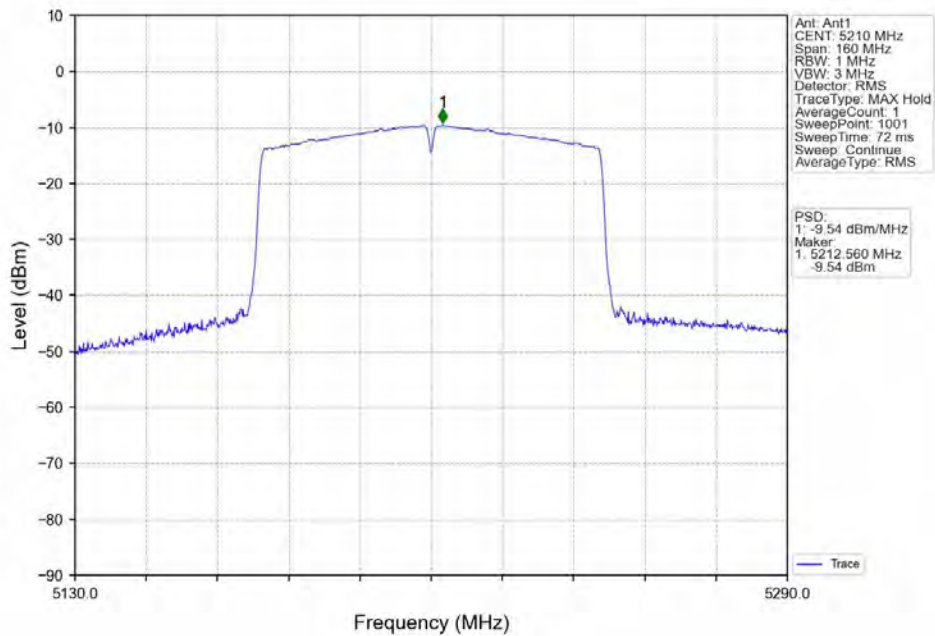
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



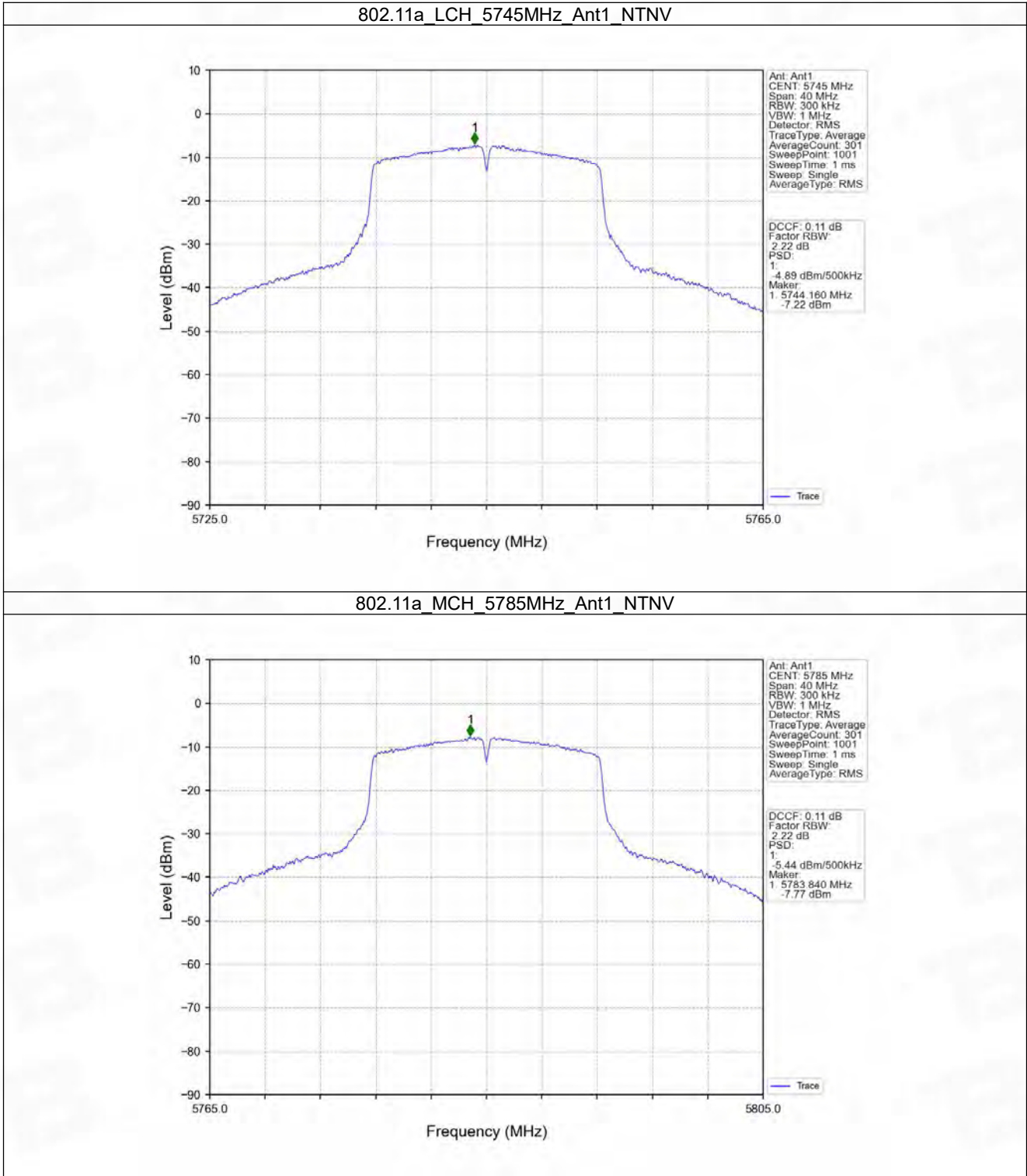
4.2 PSD-Band3

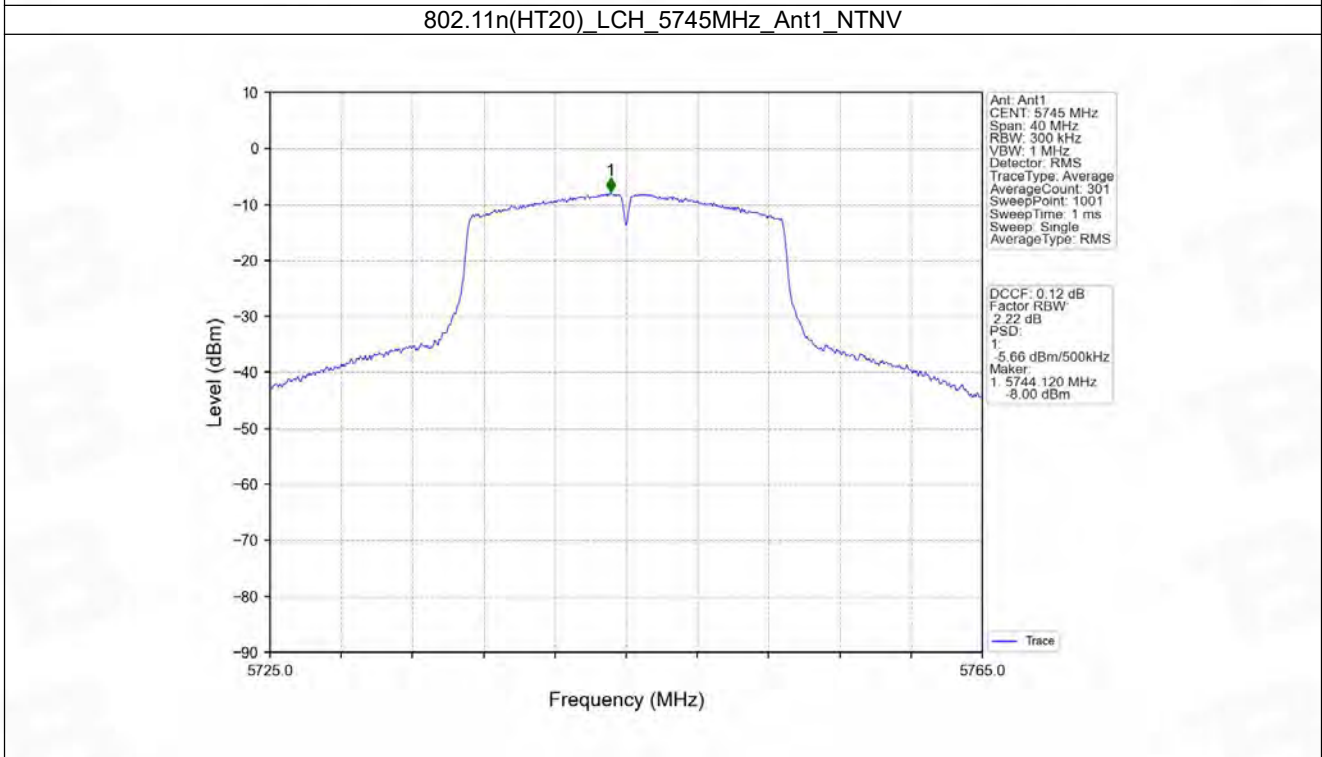
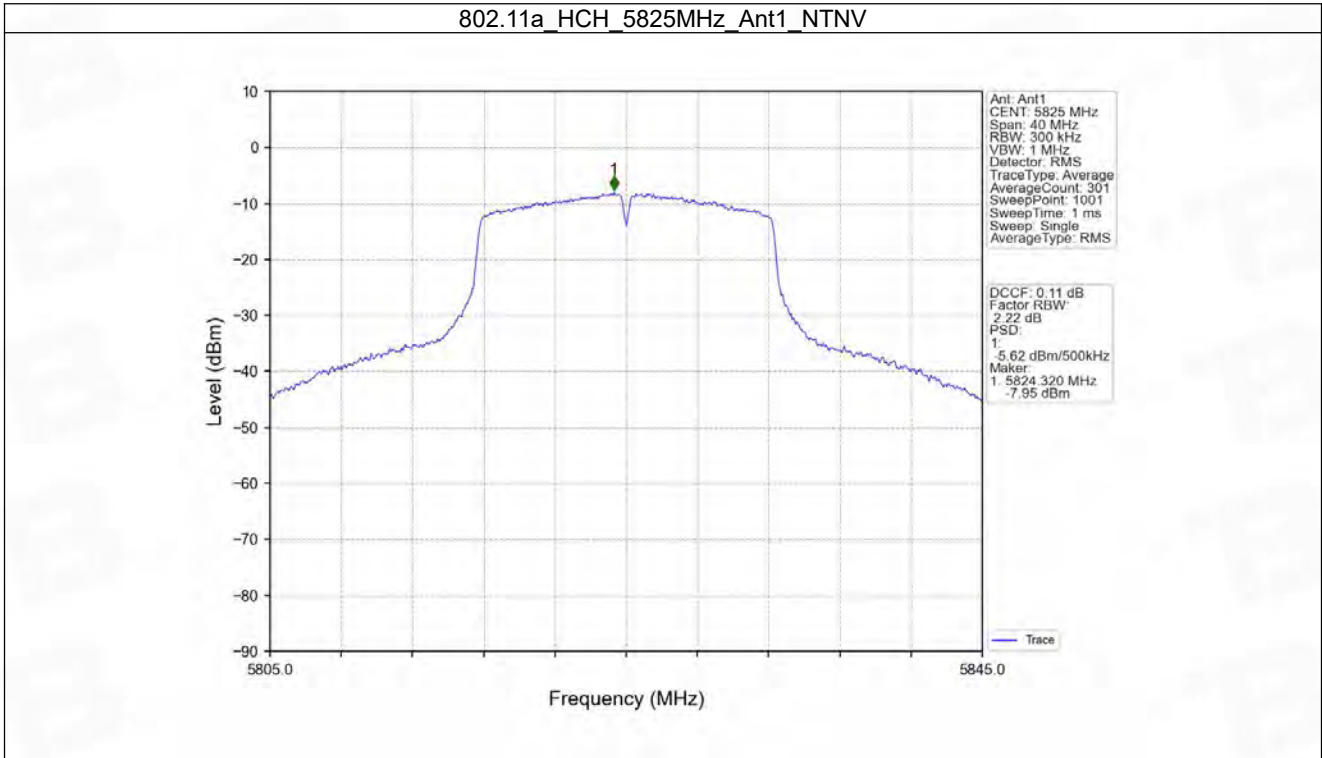
4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-4.89	<=30	Pass
		5785	-5.44	<=30	Pass
		5825	-5.62	<=30	Pass
802.11n (HT20)	SISO	5745	-5.66	<=30	Pass
		5785	-6.86	<=30	Pass
		5825	-6.89	<=30	Pass
802.11n (HT40)	SISO	5755	-9.57	<=30	Pass
		5795	-9.97	<=30	Pass
802.11ac (VHT20)	SISO	5745	-5.95	<=30	Pass
		5785	-6.76	<=30	Pass
		5825	-7.10	<=30	Pass
802.11ac (VHT40)	SISO	5755	-9.86	<=30	Pass
		5795	-9.85	<=30	Pass
802.11ac (VHT80)	SISO	5775	-11.51	<=30	Pass

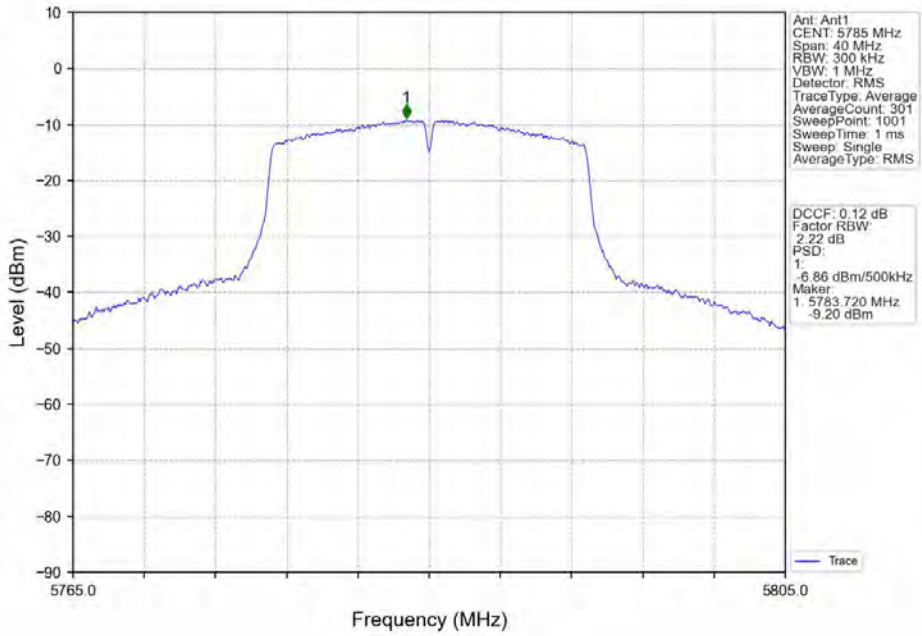
Note1: Antenna Gain: Ant1: -0.70dBi;

4.2.2 Test Graph

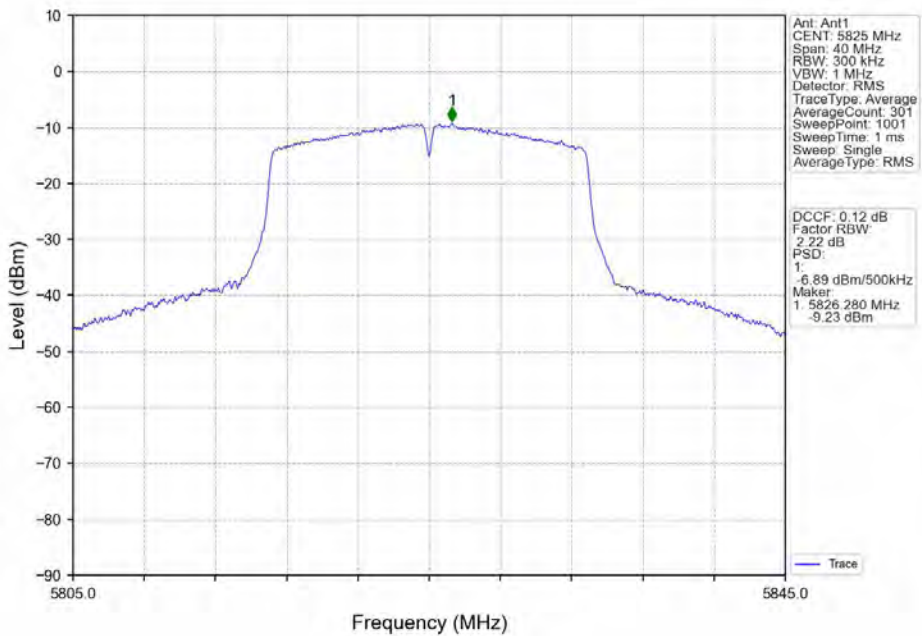




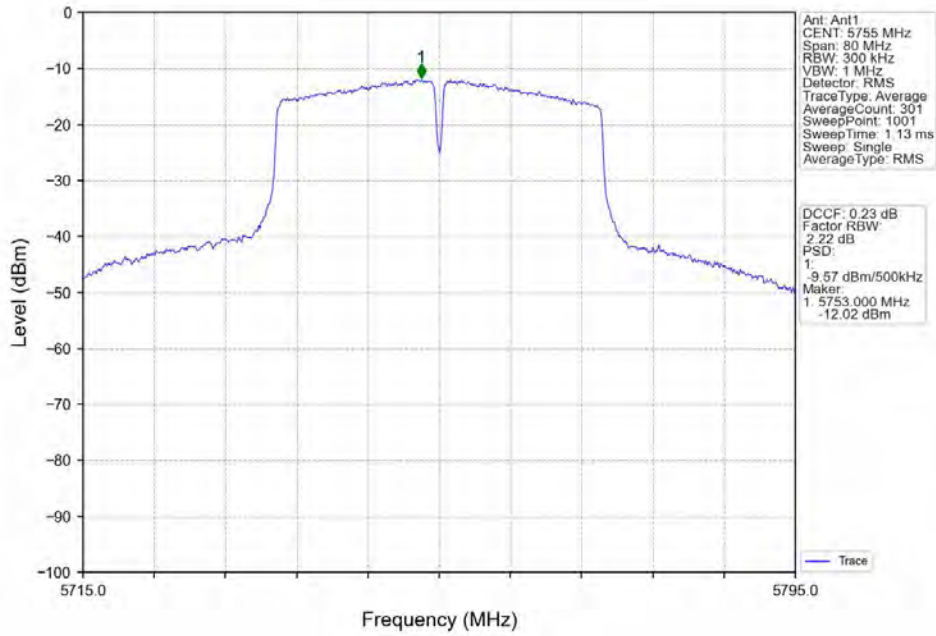
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



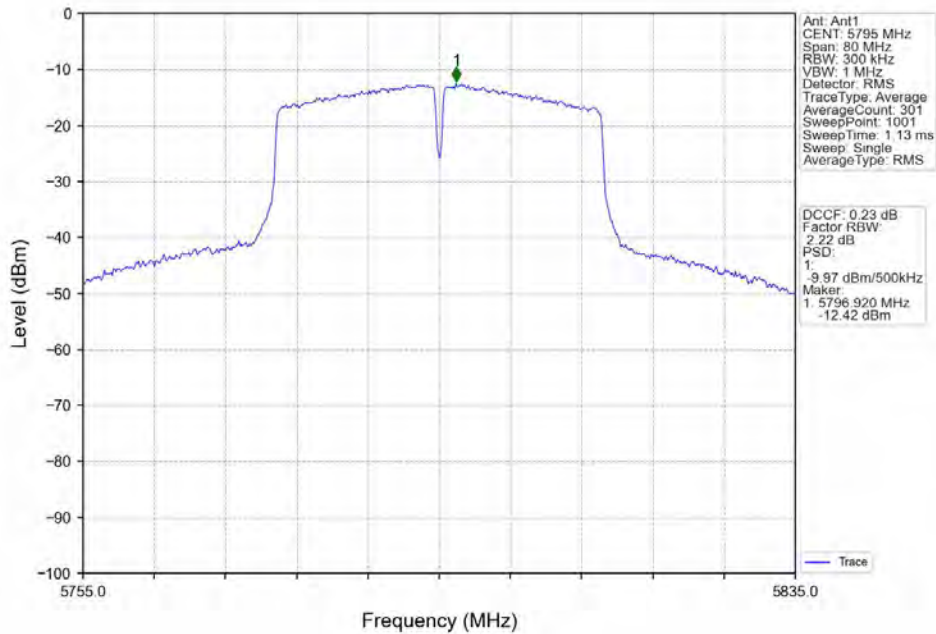
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



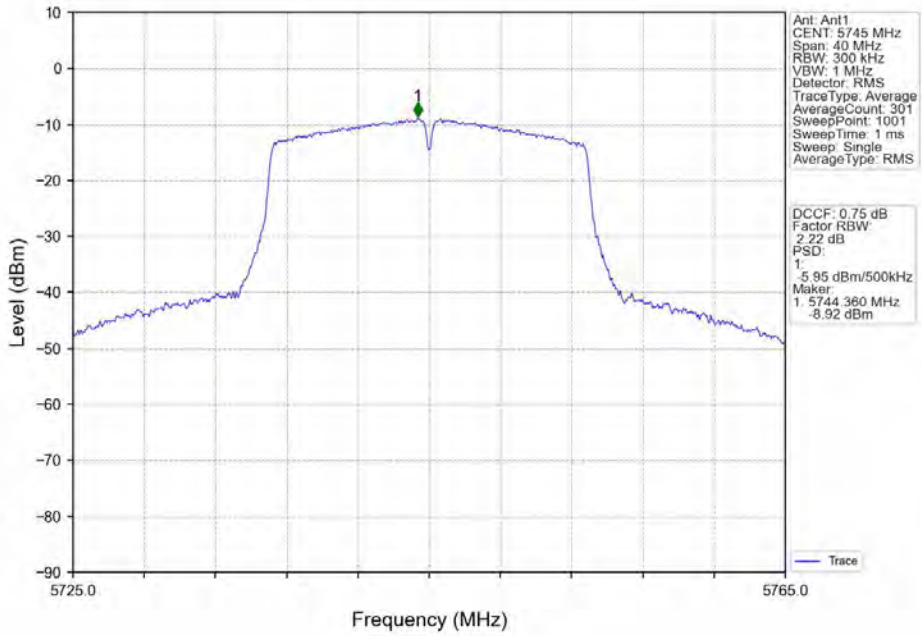
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



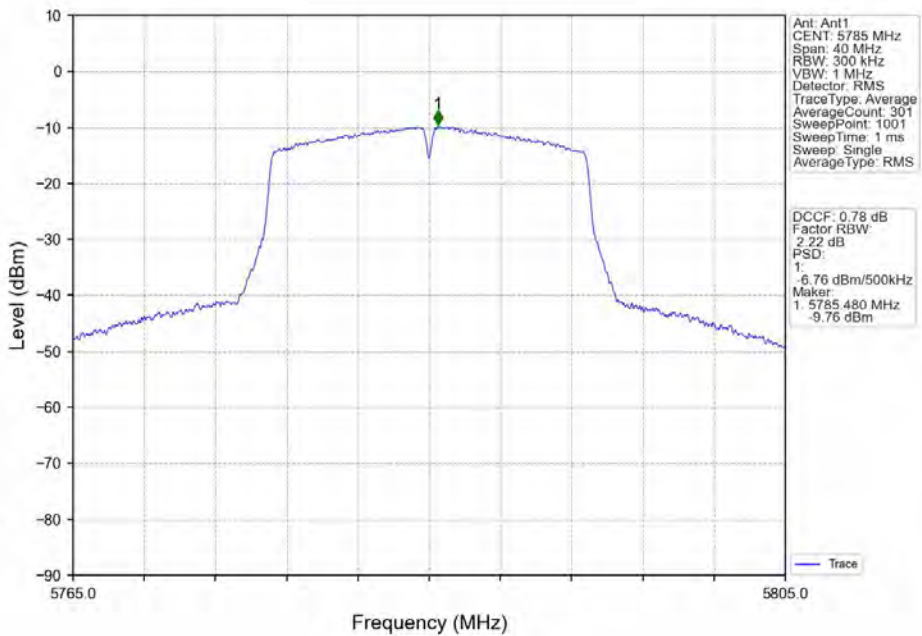
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



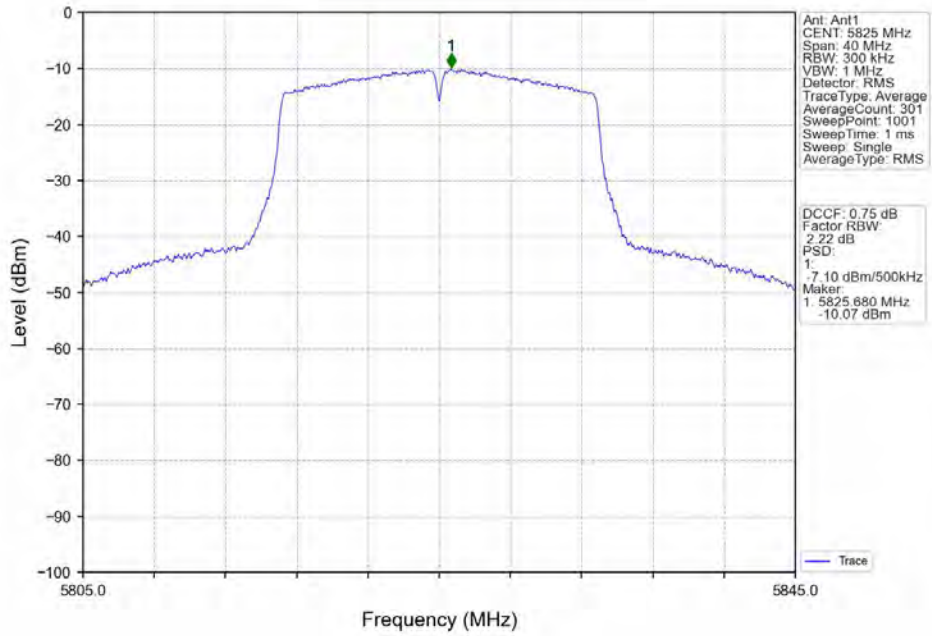
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



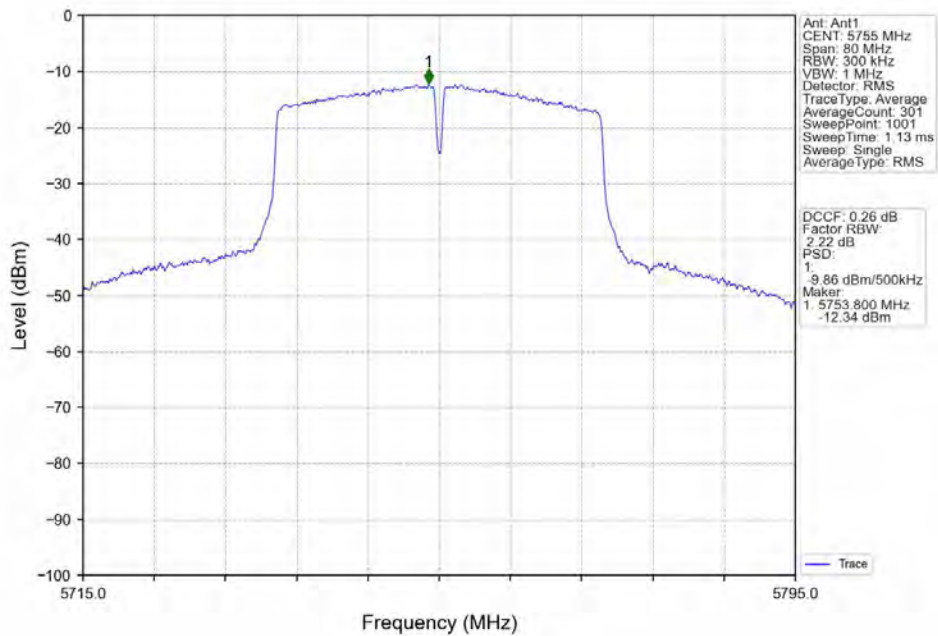
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



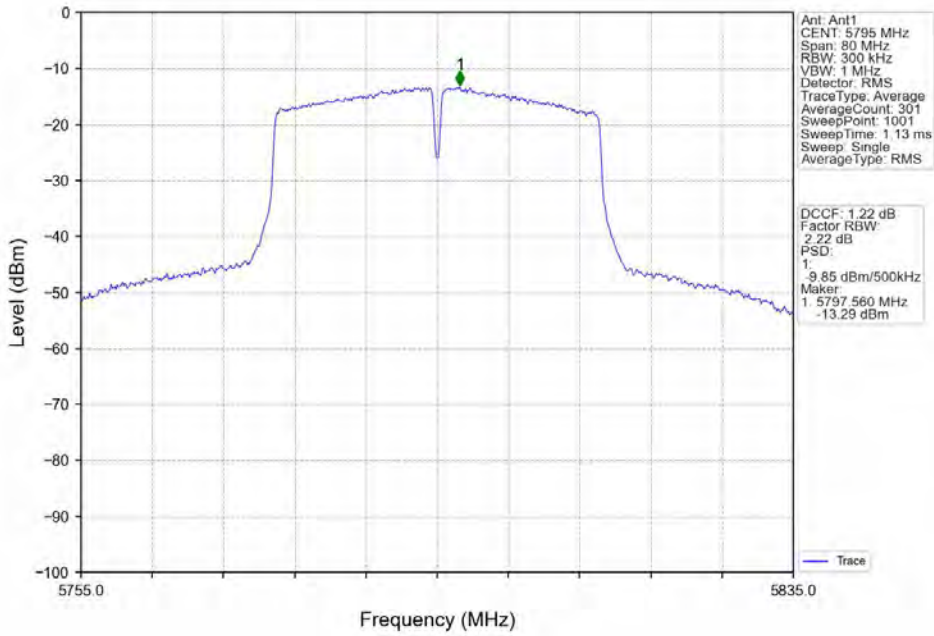
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



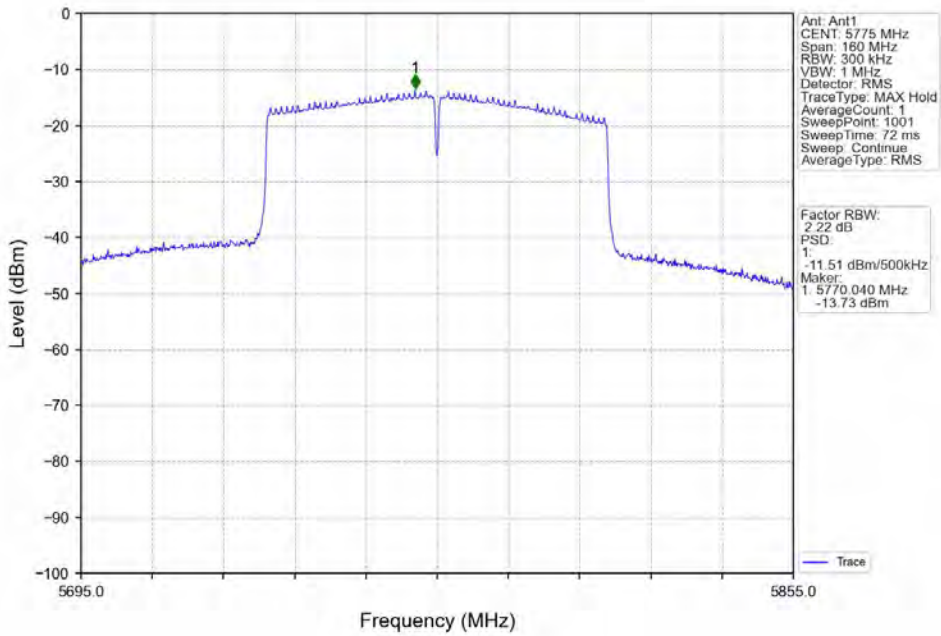
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Temperature (°C)	Ant1			Verdict	
				Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)		
802.11a	SISO	5180	20	102	5179.940	5150 to 5250	Pass	
				120	5179.980	5150 to 5250	Pass	
				138	5180.020	5150 to 5250	Pass	
			-30	120	5180.100	5150 to 5250	Pass	
				-20	120	5180.020	5150 to 5250	Pass
					120	5180.020	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass	
				0	120	5179.940	5150 to 5250	Pass
			10	120	5179.920	5150 to 5250	Pass	
				30	120	5179.980	5150 to 5250	Pass
			40	120	5180.000	5150 to 5250	Pass	
				50	120	5179.980	5150 to 5250	Pass
		5200	20	102	5200.000	5150 to 5250	Pass	
				120	5199.980	5150 to 5250	Pass	
				138	5199.980	5150 to 5250	Pass	
			-30	120	5200.020	5150 to 5250	Pass	
				-20	120	5199.920	5150 to 5250	Pass
					120	5200.000	5150 to 5250	Pass
			-10	120	5200.000	5150 to 5250	Pass	
				0	120	5200.000	5150 to 5250	Pass
			10	120	5199.940	5150 to 5250	Pass	
				30	120	5200.040	5150 to 5250	Pass
			40	120	5200.040	5150 to 5250	Pass	
				50	120	5200.060	5150 to 5250	Pass
		5240	20	102	5239.980	5150 to 5250	Pass	
				120	5240.000	5150 to 5250	Pass	
				138	5240.000	5150 to 5250	Pass	
			-30	120	5239.940	5150 to 5250	Pass	
				-20	120	5240.060	5150 to 5250	Pass
					120	5239.980	5150 to 5250	Pass
			-10	120	5239.980	5150 to 5250	Pass	
				0	120	5240.040	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass	
				30	120	5239.960	5150 to 5250	Pass
			40	120	5240.060	5150 to 5250	Pass	
				50	120	5240.000	5150 to 5250	Pass
		5745	20	102	5745.000	5725 to 5850	Pass	
				120	5744.940	5725 to 5850	Pass	
				138	5744.940	5725 to 5850	Pass	
			-30	120	5745.020	5725 to 5850	Pass	
				-20	120	5745.000	5725 to 5850	Pass
					120	5745.000	5725 to 5850	Pass
			-10	120	5744.940	5725 to 5850	Pass	
				0	120	5744.940	5725 to 5850	Pass
			10	120	5744.960	5725 to 5850	Pass	
				30	120	5744.980	5725 to 5850	Pass
			40	120	5745.060	5725 to 5850	Pass	
				50	120	5744.920	5725 to 5850	Pass
5785	20	102	5785.020	5725 to 5850	Pass			

				120	5784.960	5725 to 5850	Pass	
				138	5785.000	5725 to 5850	Pass	
			-30	120	5784.980	5725 to 5850	Pass	
			-20	120	5784.980	5725 to 5850	Pass	
			-10	120	5785.000	5725 to 5850	Pass	
			0	120	5785.060	5725 to 5850	Pass	
			10	120	5784.940	5725 to 5850	Pass	
			30	120	5785.040	5725 to 5850	Pass	
			40	120	5785.080	5725 to 5850	Pass	
			50	120	5784.960	5725 to 5850	Pass	
			5825	20	102	5825.000	5725 to 5850	Pass
					120	5824.960	5725 to 5850	Pass
					138	5825.020	5725 to 5850	Pass
				-30	120	5824.940	5725 to 5850	Pass
		-20		120	5824.980	5725 to 5850	Pass	
		-10		120	5824.940	5725 to 5850	Pass	
		0		120	5825.080	5725 to 5850	Pass	
		10		120	5825.000	5725 to 5850	Pass	
		30		120	5824.920	5725 to 5850	Pass	
		40		120	5825.020	5725 to 5850	Pass	
		50		120	5825.120	5725 to 5850	Pass	
		5180		20	102	5180.000	5150 to 5250	Pass
					120	5180.040	5150 to 5250	Pass
					138	5179.920	5150 to 5250	Pass
					-30	120	5179.960	5150 to 5250
			-20		120	5179.940	5150 to 5250	Pass
			-10		120	5180.040	5150 to 5250	Pass
			0		120	5179.960	5150 to 5250	Pass
			10		120	5179.960	5150 to 5250	Pass
			30		120	5180.020	5150 to 5250	Pass
			40	120	5180.040	5150 to 5250	Pass	
			50	120	5180.060	5150 to 5250	Pass	
			5200	20	102	5200.060	5150 to 5250	Pass
					120	5200.020	5150 to 5250	Pass
					138	5200.020	5150 to 5250	Pass
				-30	120	5200.000	5150 to 5250	Pass
				-20	120	5200.000	5150 to 5250	Pass
				-10	120	5200.000	5150 to 5250	Pass
				0	120	5200.060	5150 to 5250	Pass
10	120	5200.000		5150 to 5250	Pass			
30	120	5199.980		5150 to 5250	Pass			
40	120	5200.000	5150 to 5250	Pass				
50	120	5199.980	5150 to 5250	Pass				
5240	20	102	5239.960	5150 to 5250	Pass			
		120	5239.980	5150 to 5250	Pass			
		138	5240.000	5150 to 5250	Pass			
	-30	120	5240.020	5150 to 5250	Pass			
	-20	120	5240.080	5150 to 5250	Pass			
	-10	120	5240.000	5150 to 5250	Pass			
	0	120	5240.000	5150 to 5250	Pass			
	10	120	5240.000	5150 to 5250	Pass			
	30	120	5240.000	5150 to 5250	Pass			
	40	120	5240.000	5150 to 5250	Pass			
50	120	5240.060	5150 to 5250	Pass				
5745	20	102	5744.960	5725 to 5850	Pass			
		120	5744.940	5725 to 5850	Pass			
		138	5745.000	5725 to 5850	Pass			
	-30	120	5744.980	5725 to 5850	Pass			

			-20	120	5744.960	5725 to 5850	Pass		
			-10	120	5744.960	5725 to 5850	Pass		
			0	120	5745.000	5725 to 5850	Pass		
			10	120	5744.980	5725 to 5850	Pass		
			30	120	5744.960	5725 to 5850	Pass		
			40	120	5744.960	5725 to 5850	Pass		
			50	120	5744.940	5725 to 5850	Pass		
		5785	20	102	5784.920	5725 to 5850	Pass		
				120	5784.940	5725 to 5850	Pass		
				138	5784.980	5725 to 5850	Pass		
			-30	120	5784.980	5725 to 5850	Pass		
			-20	120	5784.920	5725 to 5850	Pass		
			-10	120	5785.060	5725 to 5850	Pass		
			0	120	5785.000	5725 to 5850	Pass		
			10	120	5785.000	5725 to 5850	Pass		
			30	120	5784.980	5725 to 5850	Pass		
			40	120	5784.920	5725 to 5850	Pass		
			50	120	5785.000	5725 to 5850	Pass		
			5825	20	102	5825.000	5725 to 5850	Pass	
					120	5825.040	5725 to 5850	Pass	
		138			5825.040	5725 to 5850	Pass		
		-30		120	5825.020	5725 to 5850	Pass		
		-20		120	5824.960	5725 to 5850	Pass		
		-10		120	5825.040	5725 to 5850	Pass		
		0		120	5824.960	5725 to 5850	Pass		
		10		120	5824.980	5725 to 5850	Pass		
		30		120	5825.100	5725 to 5850	Pass		
		40		120	5824.980	5725 to 5850	Pass		
		50		120	5824.960	5725 to 5850	Pass		
		802.11n (HT40)		SISO	5190	20	102	5190.000	5150 to 5250
			120				5190.000	5150 to 5250	Pass
			138				5190.000	5150 to 5250	Pass
			-30			120	5190.040	5150 to 5250	Pass
			-20			120	5190.000	5150 to 5250	Pass
			-10			120	5190.000	5150 to 5250	Pass
			0			120	5190.000	5150 to 5250	Pass
10	120		5190.040			5150 to 5250	Pass		
30	120		5190.040			5150 to 5250	Pass		
40	120		5190.000		5150 to 5250	Pass			
50	120		5190.000		5150 to 5250	Pass			
5230	20		102		5230.040	5150 to 5250	Pass		
			120		5230.040	5150 to 5250	Pass		
			138		5230.000	5150 to 5250	Pass		
	-30		120		5230.000	5150 to 5250	Pass		
	-20		120		5230.000	5150 to 5250	Pass		
	-10		120		5230.000	5150 to 5250	Pass		
	0		120		5230.040	5150 to 5250	Pass		
	10		120		5230.000	5150 to 5250	Pass		
	30		120		5230.040	5150 to 5250	Pass		
40	120		5230.000		5150 to 5250	Pass			
50	120	5230.000	5150 to 5250	Pass					
5755	20	102	5754.960	5725 to 5850	Pass				
		120	5754.960	5725 to 5850	Pass				
		138	5754.920	5725 to 5850	Pass				
	-30	120	5754.960	5725 to 5850	Pass				
	-20	120	5755.000	5725 to 5850	Pass				
	-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	5755.040	5725 to 5850	Pass
			40	120	5755.000	5725 to 5850	Pass
			50	120	5754.960	5725 to 5850	Pass
		5795	20	102	5794.960	5725 to 5850	Pass
				120	5794.960	5725 to 5850	Pass
				138	5795.000	5725 to 5850	Pass
			-30	120	5795.120	5725 to 5850	Pass
			-20	120	5795.000	5725 to 5850	Pass
			-10	120	5794.960	5725 to 5850	Pass
			0	120	5795.000	5725 to 5850	Pass
			10	120	5794.960	5725 to 5850	Pass
30	120		5795.000	5725 to 5850	Pass		
40	120		5795.000	5725 to 5850	Pass		
50	120	5795.000	5725 to 5850	Pass			
802.11ac (VHT20)	SISO	5180	20	102	5179.980	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5179.980	5150 to 5250	Pass
			-20	120	5179.960	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
			0	120	5180.040	5150 to 5250	Pass
			10	120	5180.000	5150 to 5250	Pass
			30	120	5180.060	5150 to 5250	Pass
			40	120	5180.000	5150 to 5250	Pass
			50	120	5180.080	5150 to 5250	Pass
			5200	20	102	5199.980	5150 to 5250
		120			5199.980	5150 to 5250	Pass
		138			5199.980	5150 to 5250	Pass
		-30		120	5199.920	5150 to 5250	Pass
		-20		120	5200.020	5150 to 5250	Pass
		-10		120	5200.000	5150 to 5250	Pass
		0		120	5200.020	5150 to 5250	Pass
		10		120	5200.000	5150 to 5250	Pass
		30		120	5199.960	5150 to 5250	Pass
		40		120	5200.020	5150 to 5250	Pass
		50		120	5200.000	5150 to 5250	Pass
		5240		20	102	5239.960	5150 to 5250
			120		5239.960	5150 to 5250	Pass
			138		5240.000	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
			-20	120	5240.080	5150 to 5250	Pass
			-10	120	5240.020	5150 to 5250	Pass
			0	120	5240.060	5150 to 5250	Pass
			10	120	5239.980	5150 to 5250	Pass
			30	120	5240.020	5150 to 5250	Pass
			40	120	5240.000	5150 to 5250	Pass
			50	120	5239.960	5150 to 5250	Pass
			5745	20	102	5744.980	5725 to 5850
		120			5744.980	5725 to 5850	Pass
		138			5745.020	5725 to 5850	Pass
		-30		120	5744.940	5725 to 5850	Pass
		-20		120	5745.000	5725 to 5850	Pass
		-10		120	5744.880	5725 to 5850	Pass
		0		120	5745.060	5725 to 5850	Pass
		10		120	5745.020	5725 to 5850	Pass
		30		120	5745.000	5725 to 5850	Pass
		40		120	5744.980	5725 to 5850	Pass

		5785	50	120	5744.960	5725 to 5850	Pass		
			20	102	5784.980	5725 to 5850	Pass		
				120	5784.920	5725 to 5850	Pass		
				138	5785.000	5725 to 5850	Pass		
			-30	120	5785.000	5725 to 5850	Pass		
			-20	120	5784.960	5725 to 5850	Pass		
			-10	120	5784.980	5725 to 5850	Pass		
			0	120	5785.040	5725 to 5850	Pass		
			10	120	5784.900	5725 to 5850	Pass		
			30	120	5784.980	5725 to 5850	Pass		
		40	120	5785.040	5725 to 5850	Pass			
		50	120	5785.000	5725 to 5850	Pass			
		5825	20	102	5824.980	5725 to 5850	Pass		
				120	5825.020	5725 to 5850	Pass		
				138	5825.000	5725 to 5850	Pass		
			-30	120	5825.000	5725 to 5850	Pass		
			-20	120	5825.020	5725 to 5850	Pass		
			-10	120	5825.040	5725 to 5850	Pass		
			0	120	5825.040	5725 to 5850	Pass		
			10	120	5825.040	5725 to 5850	Pass		
			30	120	5824.960	5725 to 5850	Pass		
			40	120	5825.020	5725 to 5850	Pass		
		50	120	5824.980	5725 to 5850	Pass			
		802.11ac (VHT40)	SISO	5190	20	102	5190.000	5150 to 5250	Pass
						120	5190.000	5150 to 5250	Pass
						138	5190.000	5150 to 5250	Pass
					-30	120	5190.040	5150 to 5250	Pass
					-20	120	5190.000	5150 to 5250	Pass
-10	120				5190.000	5150 to 5250	Pass		
0	120				5190.000	5150 to 5250	Pass		
10	120				5190.000	5150 to 5250	Pass		
30	120				5190.040	5150 to 5250	Pass		
40	120				5190.000	5150 to 5250	Pass		
50	120			5190.000	5150 to 5250	Pass			
5230	20			102	5230.000	5150 to 5250	Pass		
				120	5230.040	5150 to 5250	Pass		
				138	5230.000	5150 to 5250	Pass		
	-30			120	5230.000	5150 to 5250	Pass		
	-20			120	5230.040	5150 to 5250	Pass		
	-10			120	5230.040	5150 to 5250	Pass		
	0			120	5230.000	5150 to 5250	Pass		
	10			120	5230.000	5150 to 5250	Pass		
	30			120	5230.040	5150 to 5250	Pass		
	40			120	5230.000	5150 to 5250	Pass		
50	120			5230.040	5150 to 5250	Pass			
5755	20			102	5755.000	5725 to 5850	Pass		
				120	5755.000	5725 to 5850	Pass		
				138	5755.040	5725 to 5850	Pass		
	-30			120	5754.920	5725 to 5850	Pass		
	-20			120	5755.000	5725 to 5850	Pass		
	-10			120	5754.960	5725 to 5850	Pass		
	0	120	5754.920	5725 to 5850	Pass				
	10	120	5755.000	5725 to 5850	Pass				
	30	120	5755.000	5725 to 5850	Pass				
	40	120	5755.000	5725 to 5850	Pass				
50	120	5754.960	5725 to 5850	Pass					
5795	20	102	5794.960	5725 to 5850	Pass				
		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	5795.000	5725 to 5850	Pass
			10	120	5794.960	5725 to 5850	Pass
			30	120	5795.000	5725 to 5850	Pass
			40	120	5795.000	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5210	20	102	5210.075	5150 to 5250	Pass
				120	5210.075	5150 to 5250	Pass
				138	5210.075	5150 to 5250	Pass
			-30	120	5210.000	5150 to 5250	Pass
			-20	120	5210.000	5150 to 5250	Pass
			-10	120	5210.000	5150 to 5250	Pass
			0	120	5210.075	5150 to 5250	Pass
			10	120	5210.000	5150 to 5250	Pass
			30	120	5210.075	5150 to 5250	Pass
			40	120	5210.000	5150 to 5250	Pass
		50	120	5210.000	5150 to 5250	Pass	
		5775	20	102	5774.925	5725 to 5850	Pass
				120	5774.925	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
			-10	120	5775.000	5725 to 5850	Pass
			0	120	5775.000	5725 to 5850	Pass
			10	120	5775.000	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	0.0081	9.10
5745	5825	0.0054	7.36
5190	5230	0.0229	13.60
5755	5795	0.0044	6.44
5210	5210	0.0081	9.10



Test Report Number: BTF231031R00804



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-- END OF REPORT --