

TEST REPORT

Report No. **KS2202S0701E04**

FCC ID..... **2A4BF-AIWO1001A**

Applicant..... **AIWA(CHONGQING)INTERNATIONAL TRADE CO.,LTD**

Address..... NO.36 FENGSHENG ROAD,JIULONGPODISTRICT.CHONGQING CITY,CHINA.

Manufacturer..... RUIWA TECHNOLOGIES(CHONGQING)CO.,LTD

Address..... NO.36 FENGSHENG ROAD,JIULONGPODISTRICT.CHONGQING CITY,CHINA.

Product Name..... **Tablet**

Trade Mark..... AIWO

Model/Type reference..... AIWO1001A,AIWO1001B, AIWO1001C, AIWO1001D, AIWO1001E, AIWO1001F, AIWO1001G, AIWO1001H, AIWO1001I, AIWO1001J, AIWO1001K, AIWO1001L, AIWO0801A, AIWO0801B, AIWO0801C, AIWO0801D, AIWO0801E

Listed Model(s) **FCC Part 15, Subpart E (15.407:2017)**

Standard..... Feb.26, 2022

Date of receipt of test sample.... Feb.26, 2022~May 21, 2022

Date of testing..... Aug 05, 2022

Date of issue..... **Pass**

Prepared by:
(Printed name + Signature) Pai Zheng



Approved by:
(Printed name + Signature) Sky Dong



Testing Laboratory Name..... **K SIGN(Guangdong) Testing Co., Ltd.**

Address..... West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu,Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

FCC Part 15, Subpart E(15.407) - for 802.11a/n/ac, the test procedure follows the FCC KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

KDB 789033 D02 General UNII Test Procedures New Rules v02r01: GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E.

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02:

COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION.

ANSI C63.10-2020: American National Standard for Testing Unlicensed Wireless Devices.

1.2 Report version

Revised No.	Date of issue	Description
01	Aug 05, 2022	Original

2. Summary

Item	Standard	Method	Requirement	Result
Conducted Emission at AC power line	47 CFR Part 15.407 2021	ANSI C63.10-2013 section 6.2	47 CFR Part 15.207(a)	Pass
Duty Cycle	47 CFR Part 15.407 2021	ANSI C63.10-2013 section 12.2 (b)		Pass
Maximum conducted output power	47 CFR Part 15.407 2021	ANSI C63.10-2013, section 12.3	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
Peak power spectral density	47 CFR Part 15.407 2021	ANSI C63.10-2013, section 12.5	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 15.407 2021	ANSI C63.10-2013, section 6.9.3 & 12.4 KDB 789033 D02, Clause C.2	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e)	Pass
Channel Move Time, Channel Closing Transmission Time	47 CFR Part 15.407 2021	KDB 905462 D02, Clause 7.8.3	47 CFR Part 15.407(h)(2)(iii)	Pass
Non-Occupancy Period Test	47 CFR Part 15.407 2021	KDB 905462 D02, Clause 7.8.3	47 CFR Part 15.407(h)(2)(iv)	Pass
DFS Detection Thresholds	47 CFR Part 15.407 2021	KDB 905462 D02, Clause 7.4.1.1	KDB 905462 D02, Clause 5.2 Table 3	Pass
Emissions around the fundametal	47 CFR Part 15.407 2021	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass
Undesirable emission limits (below 1GHz)	47 CFR Part 15.407 2021	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6	47 CFR Part 15.407(b)(9)	Pass
Undesirable emission limits (above 1GHz)	47 CFR Part 15.407 2021	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass

Note:

1. Pass: The EUT complies with the essential requirements in the standard

Fail: The EUT does not comply with the essential requirements in the standard

All indications of Pass/Fail in this report are opinions expressed by KSIGN(Guangdong) Testing Co., Ltd. based on interpretations and/or observations of test results Measurement Uncertainties were not taken into account and are published for informational purposes only.

2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

3. General Information

3.1 Details of E.U.T.

The sample is a Tablet

Test Sample Number:	1-1-1(Normal Sample),1-1-2(Engineering Sample)	
Product Name:	Tablet	
Model No.:	AIWO1001A,AIWO1001B,AIWO1001C,AIWO1001D,AIWO1001E,AIWO1001F, AIWO1001G,AIWO1001H,AIWO1001I,AIWO1001J,AIWO1001K, AIWO1001L,AIWO0801A,AIWO0801B,AIWO0801C,AIWO0801D, AIWO0801E	
Trade Mark:	AIWO	
Product Description:	Tablet	
Power supply:	DC 7.6V from battery	
Power Supply(Adapter):	DC 12V	
Operation Frequency:	IEEE 802.11a/n(HT20)/ac(HT20):	U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz
	IEEE 802.11n(HT40)/ac(HT40):	U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz;
	IEEE 802.11ac(HT80):	U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2C: 5530MHz to 5610MHz; U-NII Band 3: 5775MHz
Number of Channels:	IEEE 802.11a/n(HT20)/ac(HT20):	U-NII Band 1: 4; U-NII Band 2A: 4; U-NII Band 2C: 11; U-NII Band 3: 5;
	IEEE 802.11n(HT40)/ac(HT40):	U-NII Band 1: 2; U-NII Band 2A: 2; U-NII Band 2C: 5; U-NII Band 3: 2;
	IEEE 802.11ac(HT80):	U-NII Band 1: 1; U-NII Band 2A: 1; U-NII Band 2C: 2; U-NII Band 3: 1
Modulation Type:	IEEE 802.11a:	OFDM(BPSK, QPSK, 16QAM, 64QAM);
	IEEE 802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM);
	IEEE 802.11ac	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Antenna Type:	FPC	
Antenna Gain:	-1 dBi	
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual. 2. The antenna gain is provided by the manufacturer. 3. In Canada, 5600MHz to 5650MHz is not available.		

3.2 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
Adaptor	HUAWEI	HW-059200CHQ	B68288J4R06753

3.3 Environment Conditions

ENV	Temperature (°C)	Voltage (V)
NTNV	24.6	3.7

3.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Supply Voltages	1.56%
Duty Cycle	0.37%
Conducted Power	0.48 dB
RF Power Density	2.84dB
Channel Bandwidth	2.80 dB
RF Radiated power	4.5dB (below 1GHz) 4.8dB (above 1GHz)
Radiated Emission 30~1000MHz	4.06 dB
Radiated Emission 1~18GHz	5.14 dB
Radiated Emission 18-40GHz	5.38 dB
Conducted spurious emissions 9kHz~40GHz	1.60 dB

3.5 Test Facility

Address of the report laboratory

KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical Competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED#: 25693 CAB identifier.: CN0096

KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

FCC-Registration No.: 294912 Designation Number: CN1328

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Condition

None

4. Equipment List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101798	03/04/2023
2	Vector Signal Generator	Agilent	N5182A	MY50142520	03/04/2023
3	Analog Signal Generator	HP	83752A	3344A00337	03/04/2023
4	Power Sensor	Agilent	E9304A	MY50390009	03/04/2023
5	Power Sensor	Agilent	E9300A	MY41498315	03/04/2023
6	Wideband Radio Communication Tester	R&S	CMW500	157282	03/04/2023
7	Climate Chamber	Angul	AGNH80L	1903042120	03/04/2023
8	Dual Output DC Power Supply	Agilent	E3646A	MY40009992	03/04/2023
9	RF Control Unit	Tonscend	JS0806-2	/	03/04/2023

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	EMI Test Receiver	R&S	ESR	102525	03/04/2023
2	High Pass Filter	Chengdu E-Microwave	OHF-3-18-S	0E01901038	03/04/2023
3	High Pass Filter	Chengdu E-Microwave	OHF-6.5-18-S	0E01901039	03/04/2023
4	Spectrum Analyzer	HP	8593E	3831U02087	03/04/2023
5	Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	01230	12/04/2023
6	Loop Antenna	Beijin ZHINAN	ZN30900C	18050	03/04/2023
7	Spectrum Analyzer	R&S	FSV40-N	101798	03/04/2023
8	Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	03/29/2023
9	Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	03/04/2023
10	Pre-Amplifier	EMCI	EMC051835SE	980662	03/04/2023

Note:

1)The Cal. Interval was one year.

2)The cable loss has calculated in test result which connection between each test instruments.

5. Radio Spectrum Matter Test Results (RF)

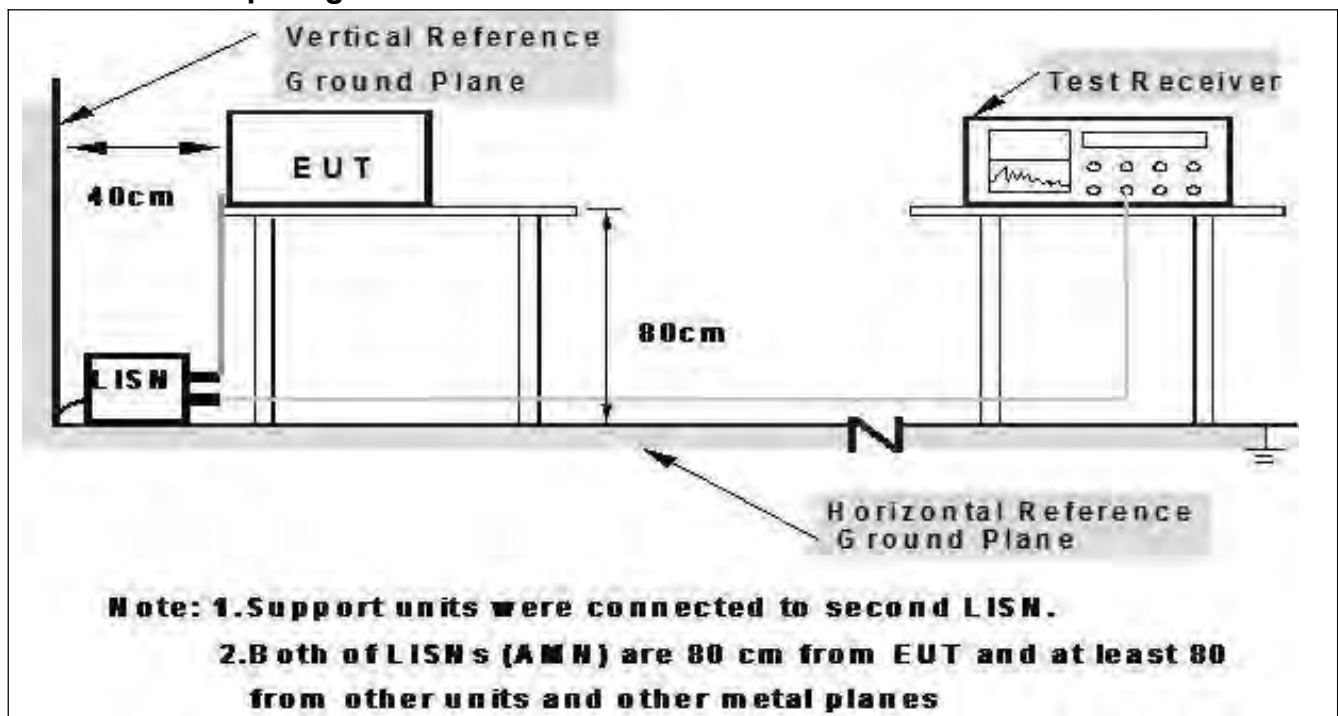
5.1 Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
Test Method:	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.			

5.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.6 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	4: Normal Operating: Normal Operating_Keep the EUT works in normal operating mode and connect to companion device
Final test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 4: Normal Operating: Normal Operating_Keep the EUT works in normal operating mode and connect to companion device

5.1.2 Test Setup Diagram:

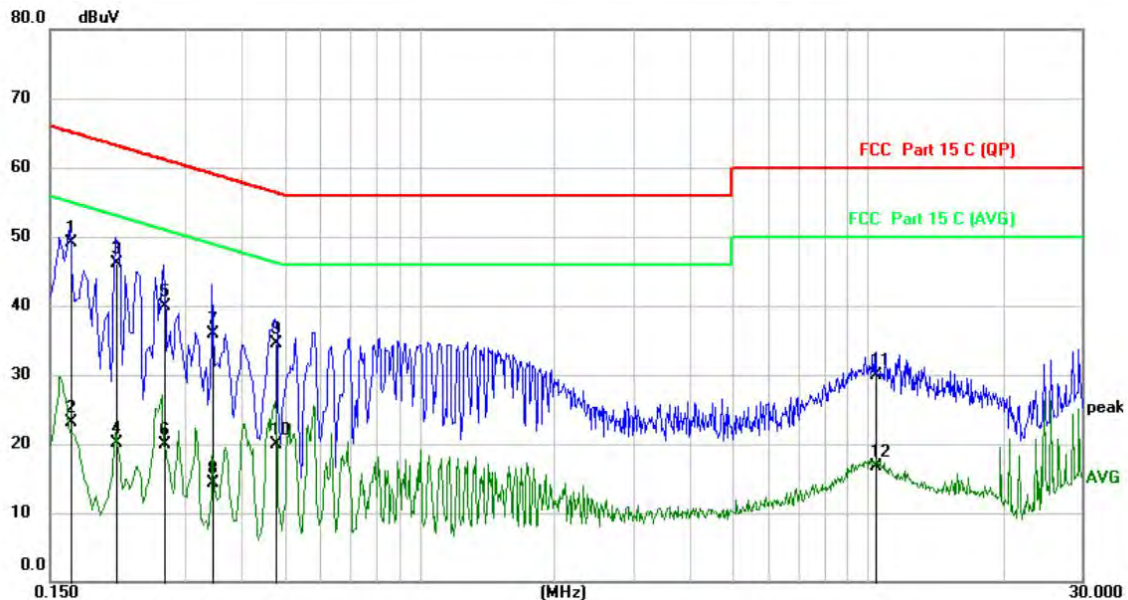


5.1.3 Test Data:

Note:

All frequency bands and modes have been tested, found 802.11a_5180MHz which it is worse case for conducted emission , so only show the test data for worse case.

Test Voltage:	AC 120V/60 Hz
Terminal:	Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1660	38.32	10.72	49.04	65.16	-16.12	QP
2		0.1660	12.31	10.72	23.03	55.16	-32.13	AVG
3		0.2100	35.39	10.75	46.14	63.21	-17.07	QP
4		0.2100	9.38	10.75	20.13	53.21	-33.08	AVG
5		0.2700	29.31	10.65	39.96	61.12	-21.16	QP
6		0.2700	9.23	10.65	19.88	51.12	-31.24	AVG
7		0.3460	25.38	10.55	35.93	59.06	-23.13	QP
8		0.3460	3.85	10.55	14.40	49.06	-34.66	AVG
9		0.4780	23.99	10.42	34.41	56.37	-21.96	QP
10		0.4780	9.40	10.42	19.82	46.37	-26.55	AVG
11		10.4140	19.33	10.64	29.97	60.00	-30.03	QP
12		10.4140	5.97	10.64	16.61	50.00	-33.39	AVG

Remarks:

1.Measurement = Reading Level+ Correct Factor

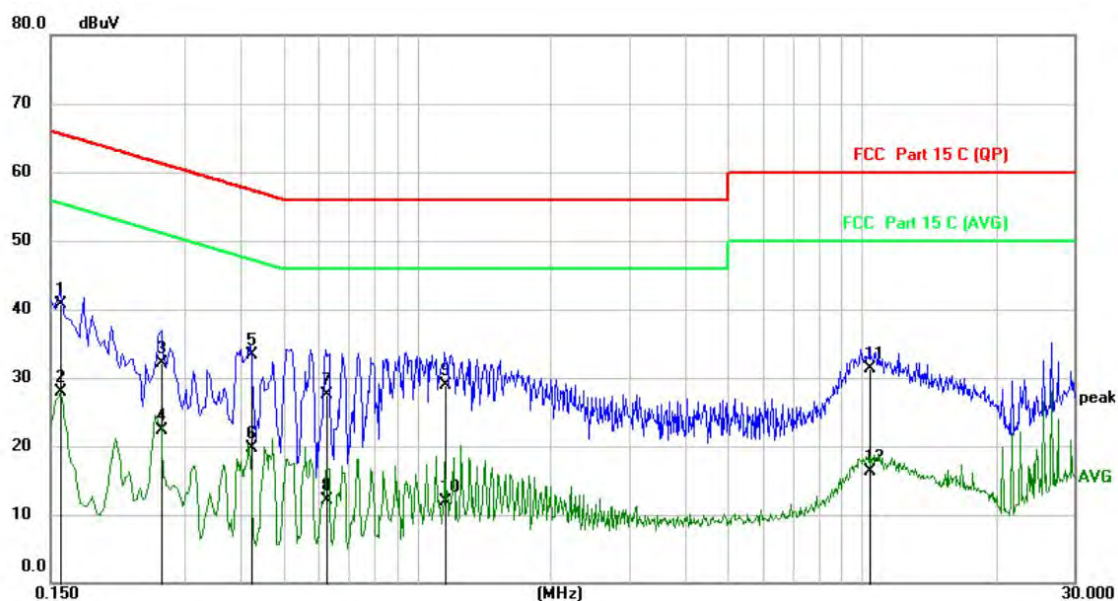
2.Over = Measurement -Limit

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Voltage:	AC 120V/60 Hz
Terminal:	Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1580	29.90	10.71	40.61	65.57	-24.96	QP
2	0.1580	17.24	10.71	27.95	55.57	-27.62	AVG
3	0.2660	21.47	10.64	32.11	61.24	-29.13	QP
4	0.2660	11.70	10.64	22.34	51.24	-28.90	AVG
5 *	0.4220	22.74	10.51	33.25	57.41	-24.16	QP
6	0.4220	9.23	10.51	19.74	47.41	-27.67	AVG
7	0.6260	17.08	10.45	27.53	56.00	-28.47	QP
8	0.6260	1.64	10.45	12.09	46.00	-33.91	AVG
9	1.1580	18.51	10.48	28.99	56.00	-27.01	QP
10	1.1580	1.43	10.48	11.91	46.00	-34.09	AVG
11	10.3979	20.78	10.61	31.39	60.00	-28.61	QP
12	10.3979	5.75	10.61	16.36	50.00	-33.64	AVG

Remarks:

1.Measurement = Reading Level+ Correct Factor

2.Over = Measurement -Limit

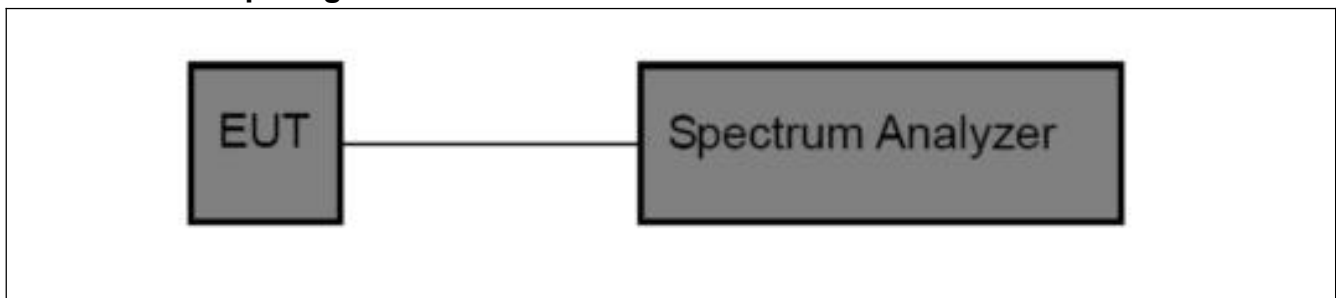
5.2 Duty Cycle

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.

5.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.
Final test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.

5.2.2 Test Setup Diagram:



5.2.3 Test Data:

Please Refer to Appendix H for Details.

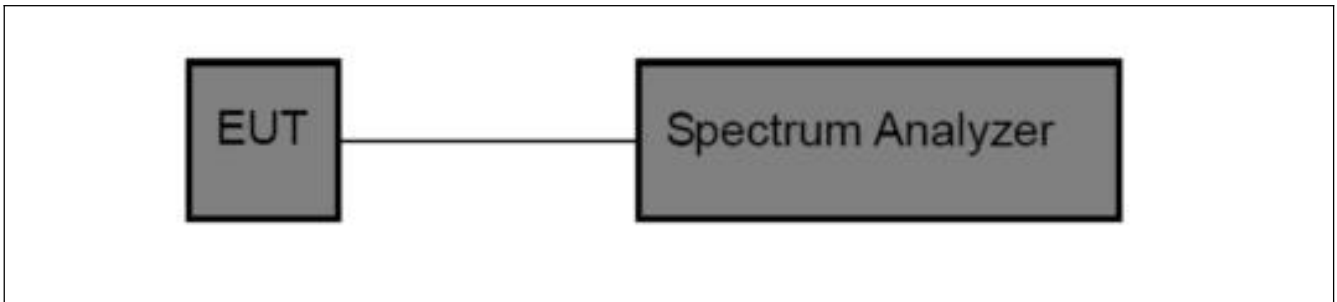
5.3 Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Method:	ANSI C63.10-2013, section 12.3
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 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 colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

	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.
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5.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.
Final test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.

5.3.2 Test Setup Diagram:**5.3.3 Test Data:**

Please Refer to Appendix B for Details.

5.4 Peak power spectral density

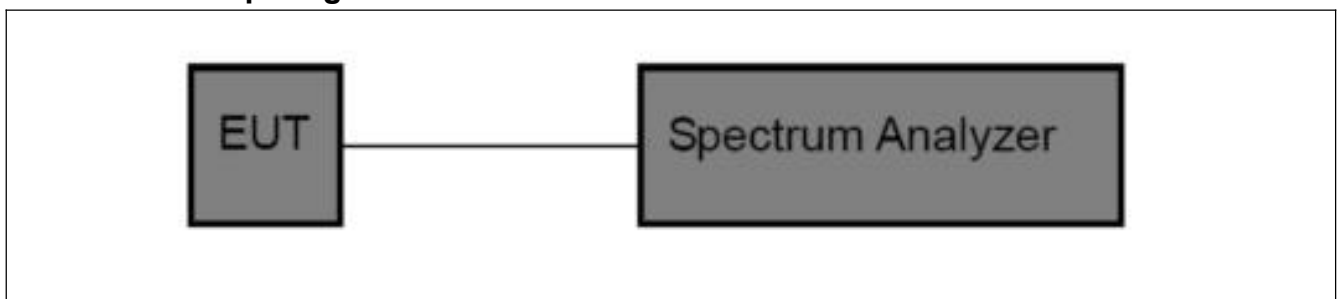
Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Method:	ANSI C63.10-2013, section 12.5
Test Limit:	For an outdoor access point operating in the band 5.15-5.25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

Operating Environment:	
Temperature:	23 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.
Final test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.

5.4.2 Test Setup Diagram:



5.4.3 Test Data:

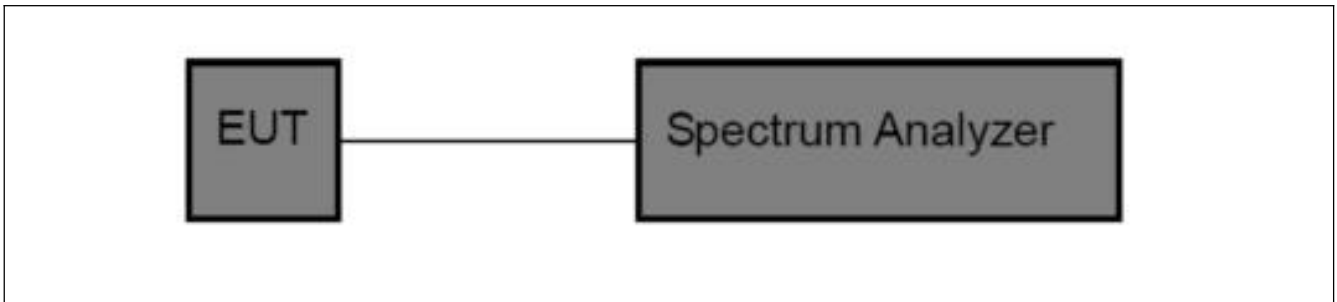
Please Refer to Appendix C for Details.

5.5 26dB emission bandwidth & 99% Occupied bandwidth and 6dB emission bandwidth

Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Test Method:	ANSI C63.10-2013, section 6.9.3 & 12.4 KDB 789033 D02, Clause C.2
Test Limit:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 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.

5.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.
Final test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.

5.5.2 Test Setup Diagram:**5.5.3 Test Data:**

Please Refer to Appendix A1,A2 and A3 for Details.

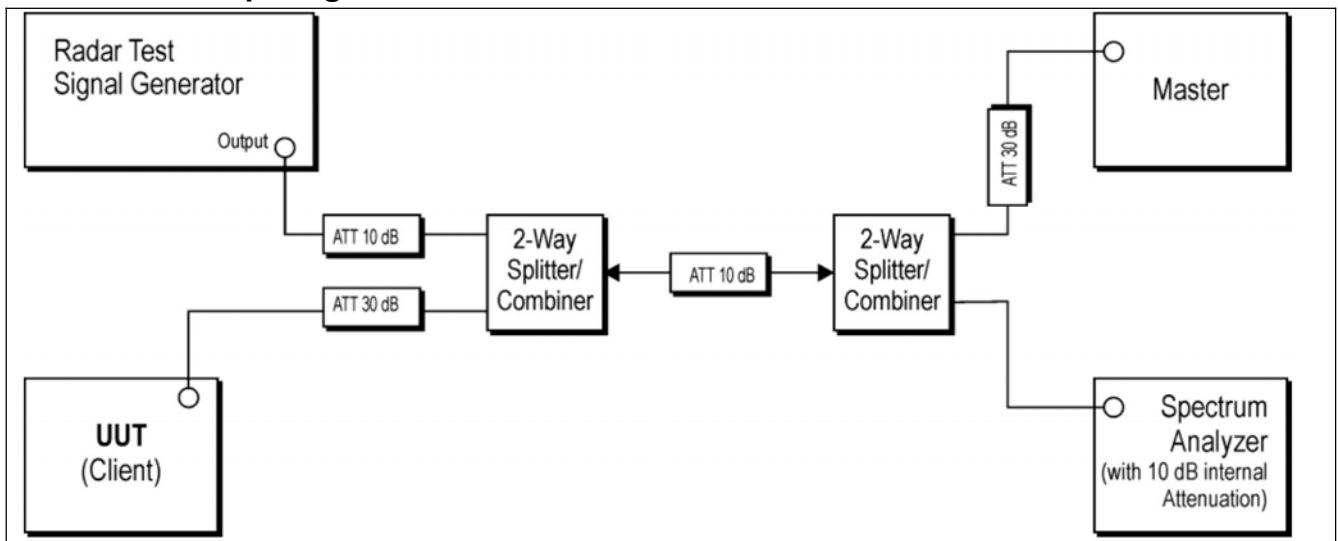
5.6 Channel Move Time, Channel Closing Transmission Time

Test Requirement:	47 CFR Part 15.407(h)(2)(iii)
Test Method:	KDB 905462 D02, Clause 7.8.3
Test Limit:	Channel Move Time: within 10 seconds Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.)

5.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	4: Normal Operating: Normal Operating_Keep the EUT works in normal operating mode and connect to companion device
Final test mode:	4: Normal Operating: Normal Operating_Keep the EUT works in normal operating mode and connect to companion device

5.6.2 Test Setup Diagram:



TEST PROCEDURE:

1. When a Client Device without Radar Detection is the UUT, the Master Device is the Radar Detection Device.
2. A spectrum analyzer is used to establish the test signal level for each radar type.
3. During this process, there are no transmissions by either the Master Device or Client Device.
4. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) are set to at least 3 MHz.
5. The measured channels are 5530MHz in 80MHz Bandwidth. The Radar signal was the same as transmitted channels, and injected into the antenna port of AP(master), measured the DFS parameters. The master transmitted the test data to client, the transmitted duty cycle is 37%.

NOTE :

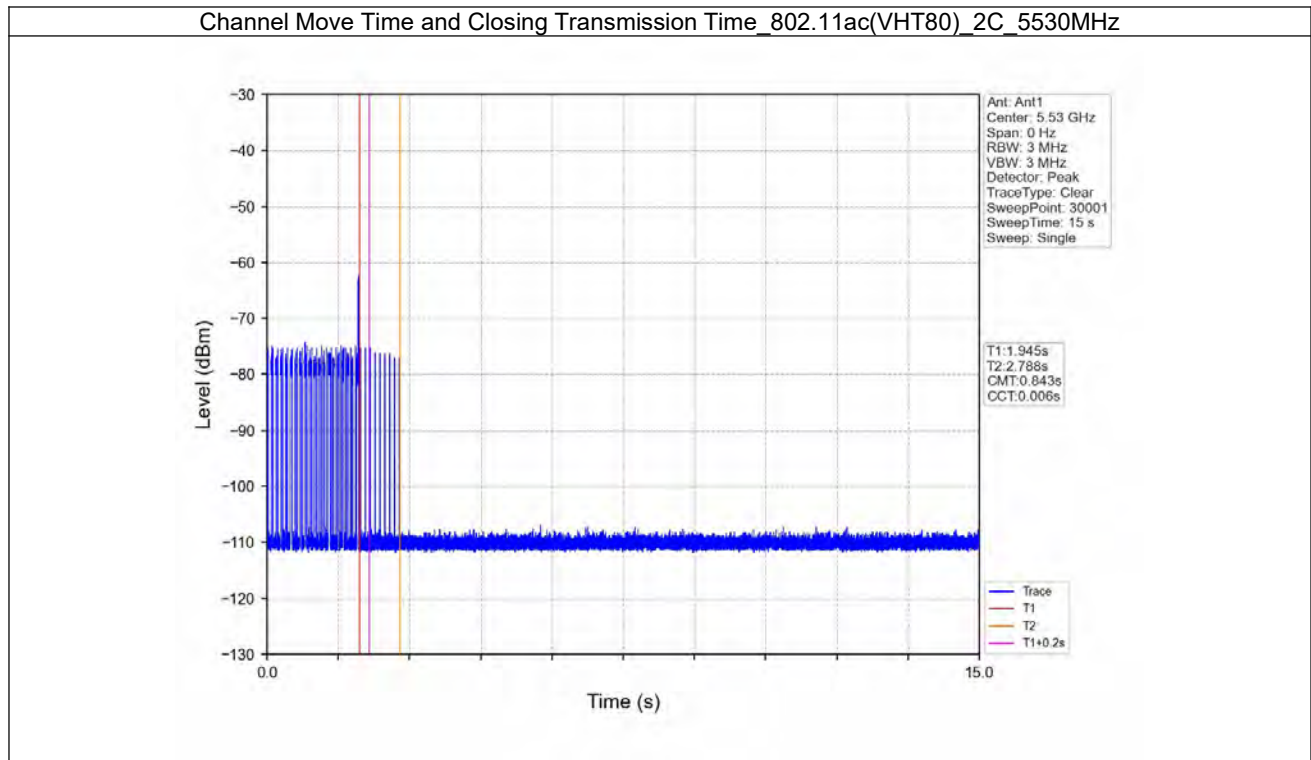
1. EUT nonsupport TPC
2. Master device startup is 5s, Client device startup is 3s.
3. Master device Model: RT-AC88U, FCC ID: MSQ-RTGW00.

5.6.3 Test Data:

Channel Move Time and Channel Closing Transmission Time

Test Frequency	Requirement	Measurement Level	Limit
5530MHz	Channel Closing Transmission Time	0.006s	$\leq 0.26s$
	Channel Move Time	0.843s	$\leq 10s$

Channel Move Time and Closing Transmission Time_802.11ac(VHT80)_2C_5530MHz



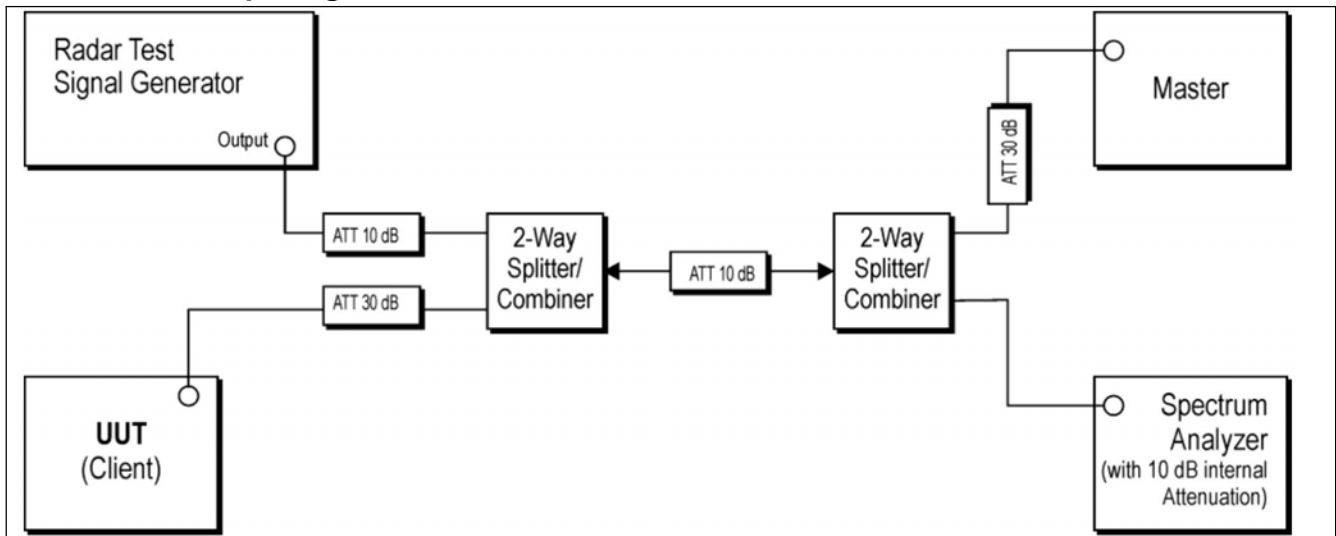
5.7 Non-Occupancy Period Test

Test Requirement:	47 CFR Part 15.407(h)(2)(iv)
Test Method:	KDB 905462 D02, Clause 7.8.3
Test Limit:	A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

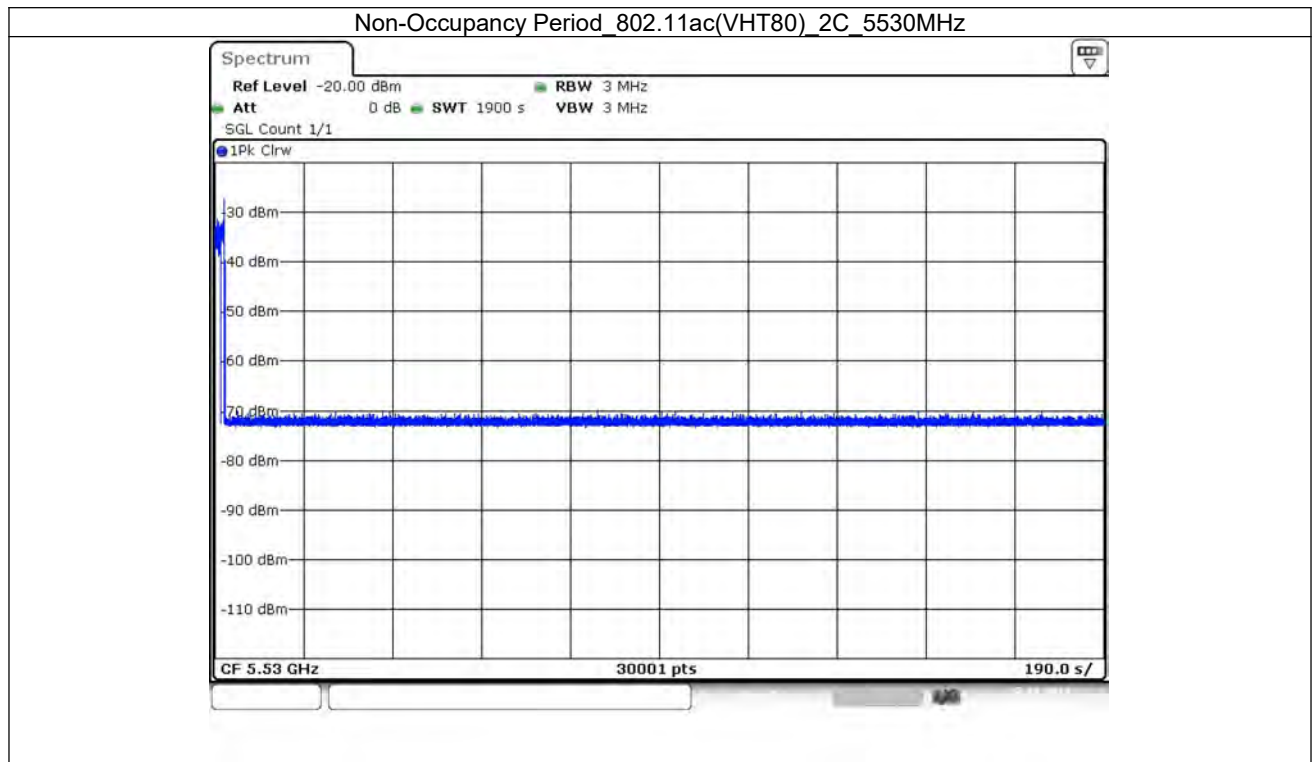
5.7.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	4: Normal Operating: Normal Operating_Keep the EUT works in normal operating mode and connect to companion device
Final test mode:	4: Normal Operating: Normal Operating_Keep the EUT works in normal operating mode and connect to companion device

5.7.2 Test Setup Diagram:



5.7.3 Test Data:



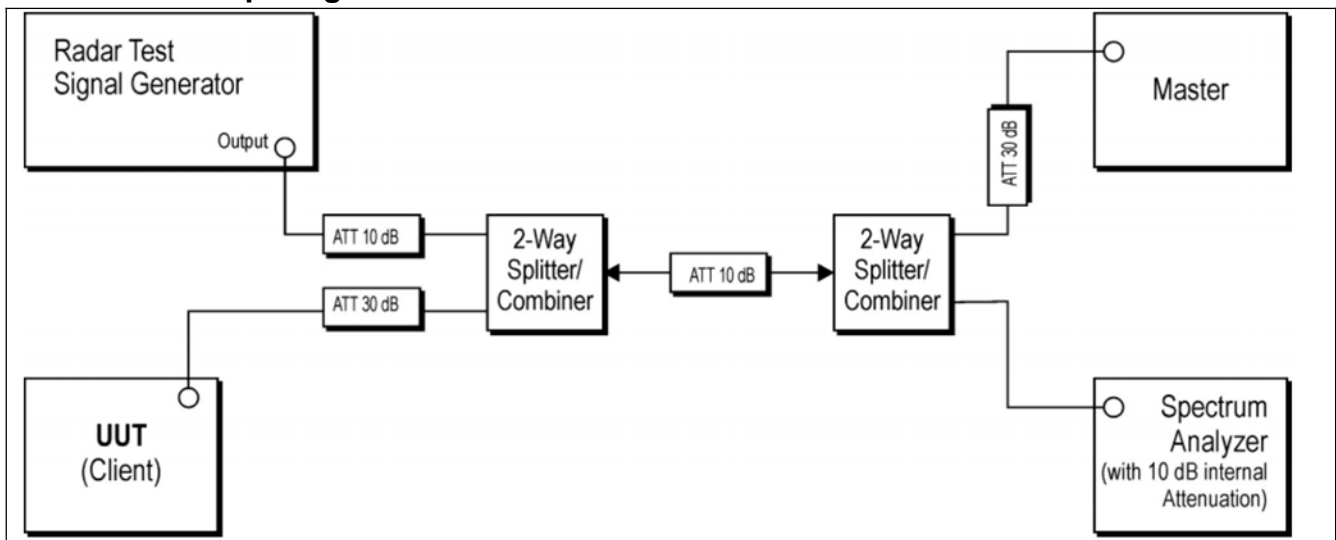
5.8 DFS Detection Thresholds

Test Requirement:	KDB 905462 D02, Clause 5.2 Table 3								
Test Method:	KDB 905462 D02, Clause 7.4.1.1								
Test Limit:	Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection <table border="1"> <thead> <tr> <th>Maximum Transmit Power</th><th>Value (See Notes 1, 2, and 3)</th></tr> </thead> <tbody> <tr> <td>EIRP $\geq$ 200 milliwatt</td><td>-64 dBm</td></tr> <tr> <td>EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz</td><td>-62 dBm</td></tr> <tr> <td>EIRP < 200 milliwatt that do not meet the power spectral density requirement</td><td>-64 dBm</td></tr> </tbody> </table> Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	Maximum Transmit Power	Value (See Notes 1, 2, and 3)	EIRP $\geq$ 200 milliwatt	-64 dBm	EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm	EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Maximum Transmit Power	Value (See Notes 1, 2, and 3)								
EIRP $\geq$ 200 milliwatt	-64 dBm								
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm								
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm								

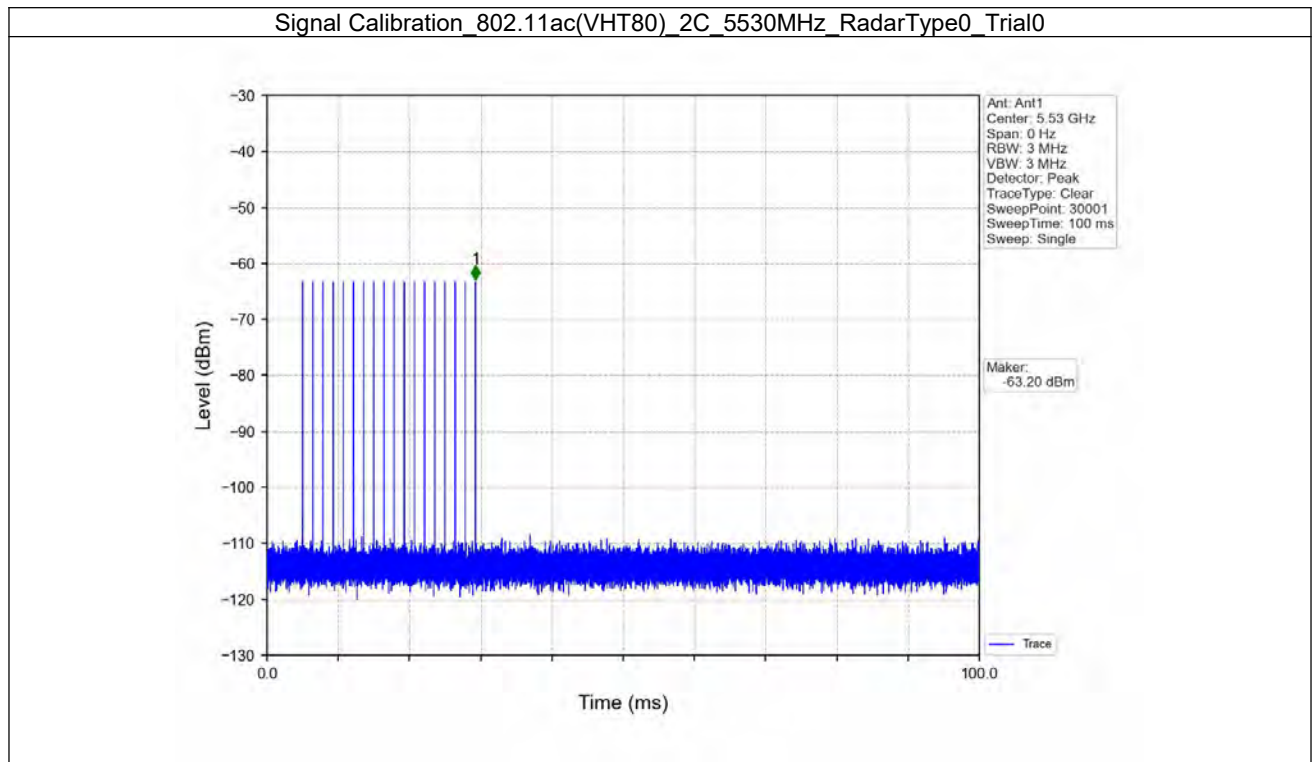
5.8.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	4: Normal Operating: Normal Operating_Keep the EUT works in normal operating mode and connect to companion device
Final test mode:	4: Normal Operating: Normal Operating_Keep the EUT works in normal operating mode and connect to companion device

5.8.2 Test Setup Diagram:



5.8.3 Test Data:



5.9 Band edge measurements

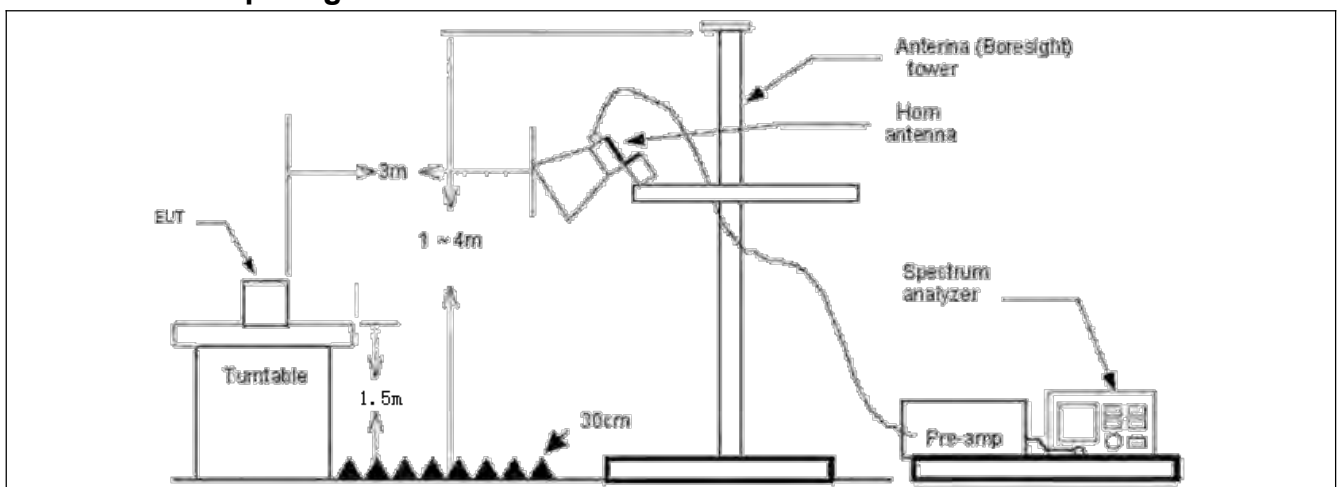
Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)			
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6			
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of 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. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. 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.			
	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			
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6 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. Except as provided elsewhere in this subpart, the emissions from an			

	intentional radiator shall not exceed the field strength levels specified in the following table:		
	Frequency (MHz)	Field strength (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

5.9.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.6 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.
Final test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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.

5.9.2 Test Setup Diagram:



5.9.3 Test Data:

Please Refer to Appendix D,E and F for Details.

5.10 Radiated emission limits (Below 1G)

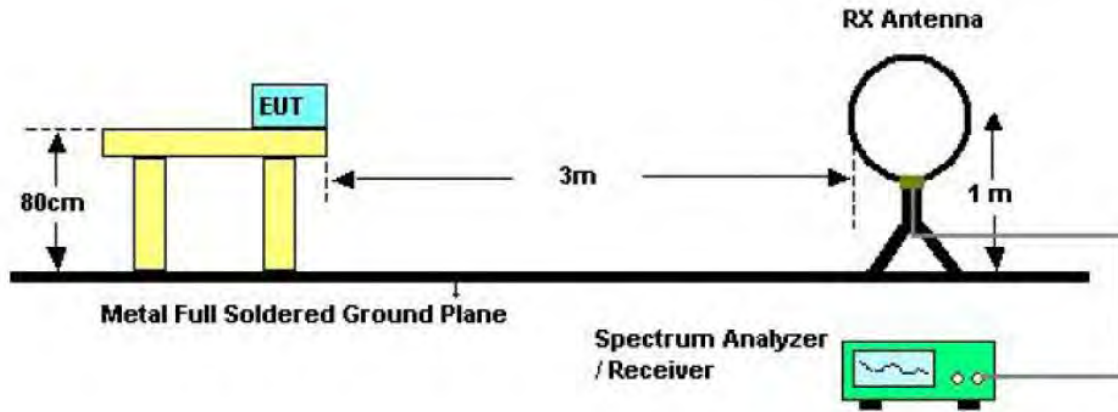
Test Requirement:	47 CFR Part 15.407(b)(9)		
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6		
Test Limit:	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.		
	Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:		
	Frequency (MHz)	Field strength (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

5.10.1 E.U.T. Operation:

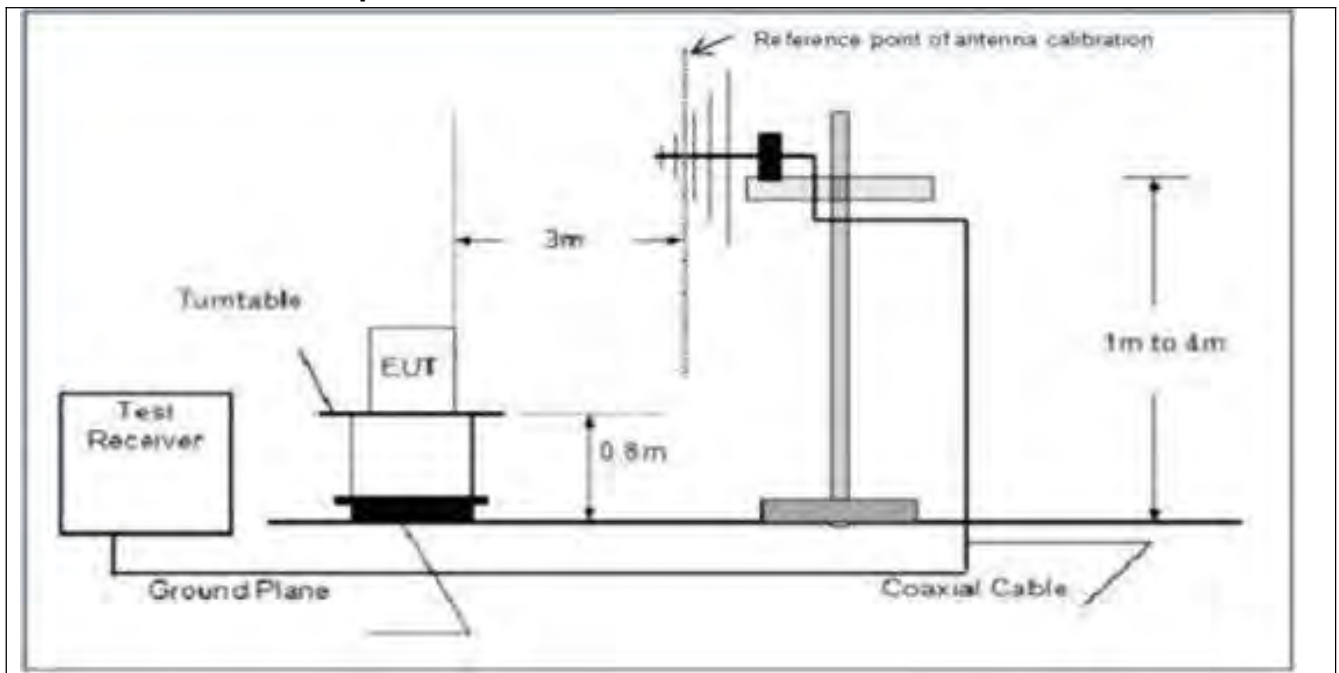
Operating Environment:	
Temperature:	24.6 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.
Final test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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.

5.10.2 Test Setup Diagram:

Below 30MHz Test Setup



Below 1GHz Test Setup

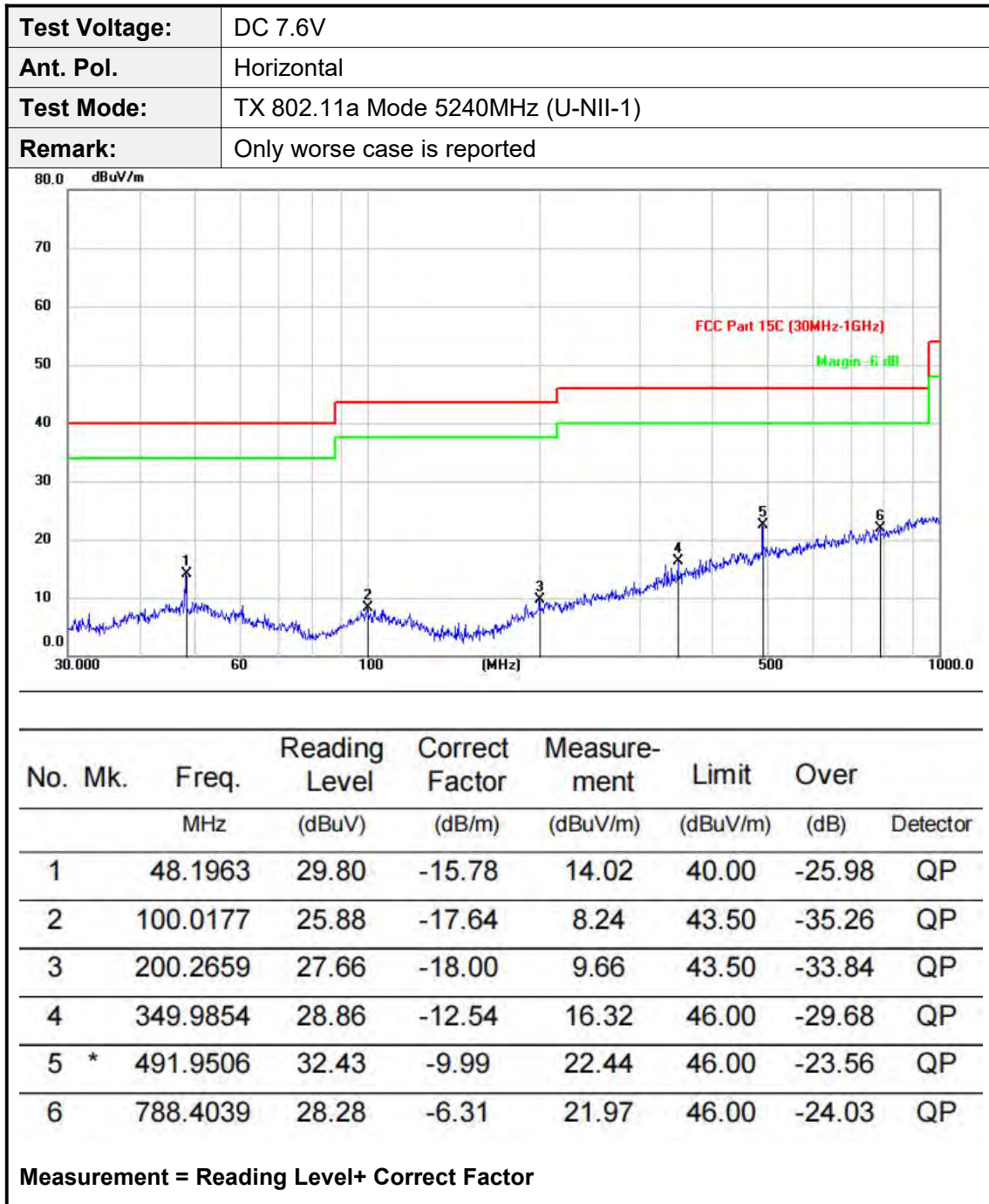


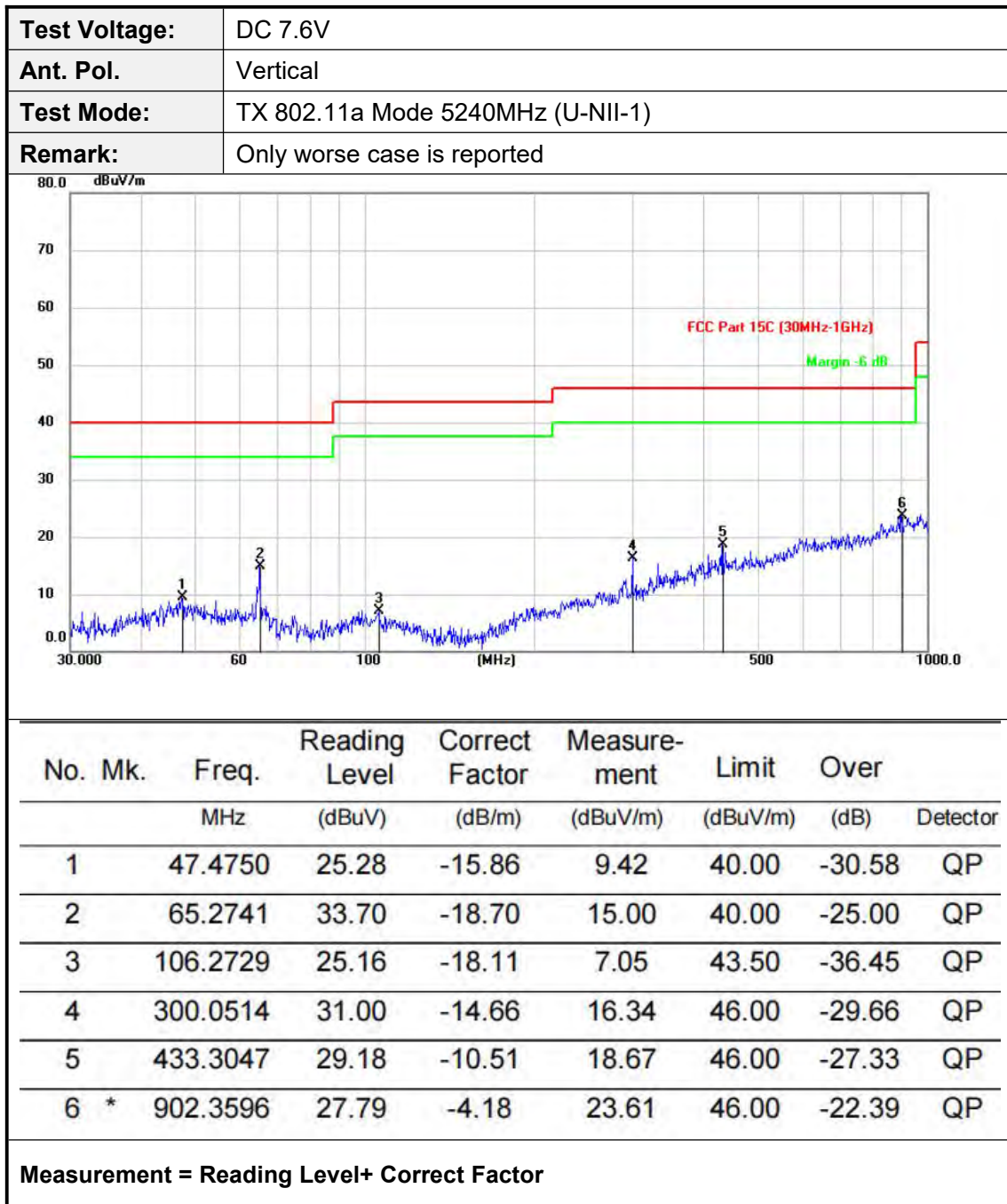
5.10.3 Test Data:

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

30MHz-1GHz





Note:

- 1) All frequency bands and modes have been tested, found 802.11a_5180MHz which it is worse case for 30MHz-1GHz , so only show the test data for worse case.

5.11 Radiated emission limits (above 1GHz)

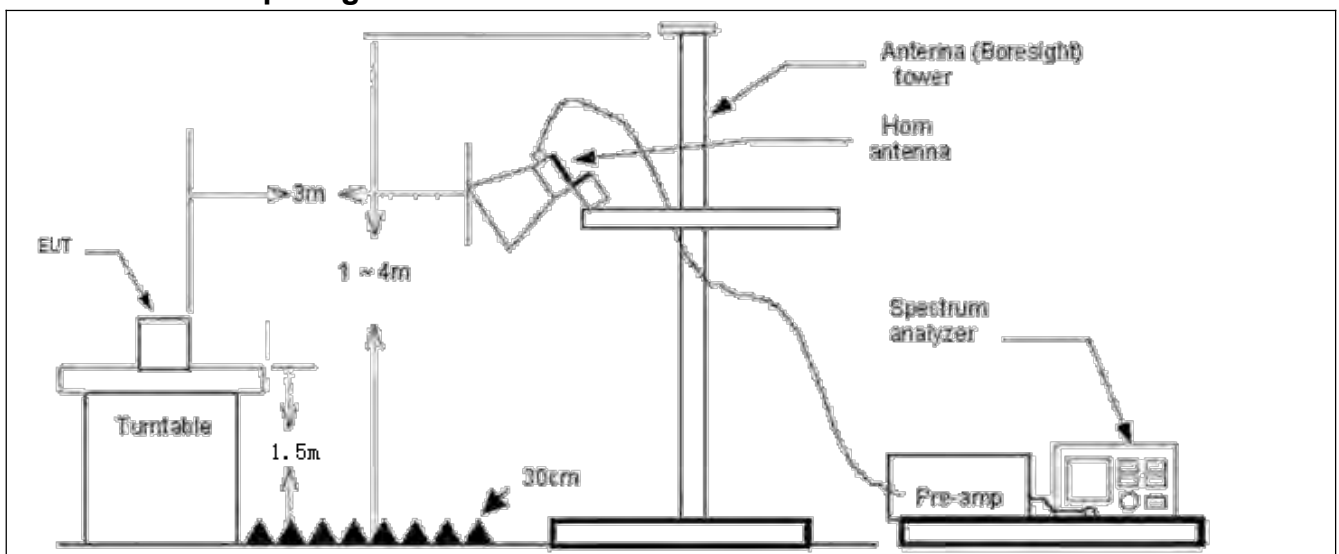
Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)			
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6			
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of 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. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. 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.			
	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			
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6 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.			

	Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:		
	Frequency (MHz)	Field strength (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

5.11.1 E.U.T. Operation:

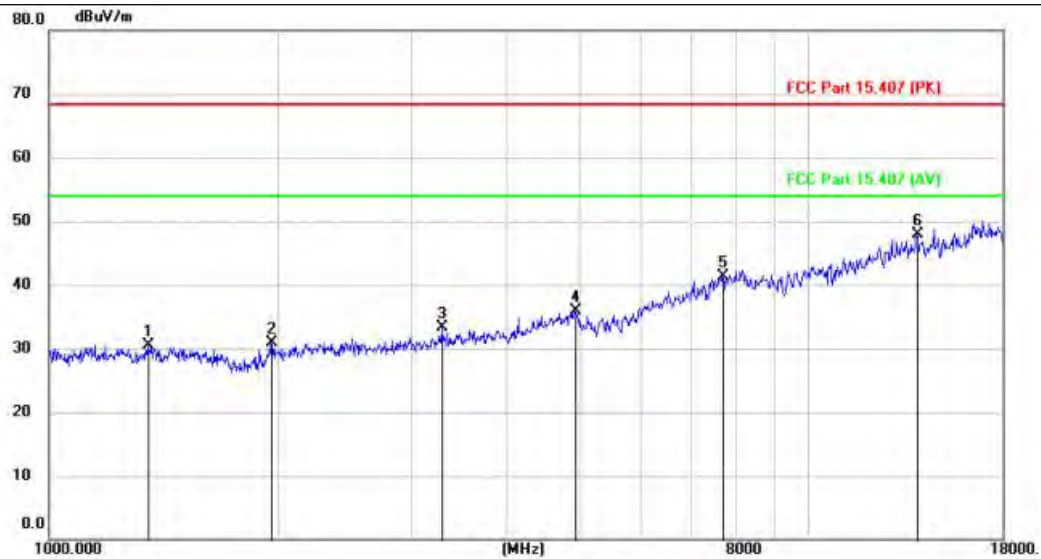
Operating Environment:	
Temperature:	24.6 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Pre test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: TX mode IEEE 802.11n: TX mode IEEE 802.11n_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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. 3: TX mode IEEE 802.11ac: TX mode IEEE 802.11ac_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 802.11ac 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.
Final test mode:	1: TX mode IEEE 802.11a: TX mode IEEE 802.11a_Keep the EUT connect to AC power line and works in continuously transmitting mode with IEEE 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.

5.11.2 Test Setup Diagram:



5.11.3 Test Data:

Test Mode:1 / Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: L



Site 966 Chamber

Limit: FCC Part 15.407 (PK)

EUT: 平板电脑

M/N: AIWO1001A

Mode: 5G-Band 1 -5180

Note:

Polarization: **Horizontal**

Power:

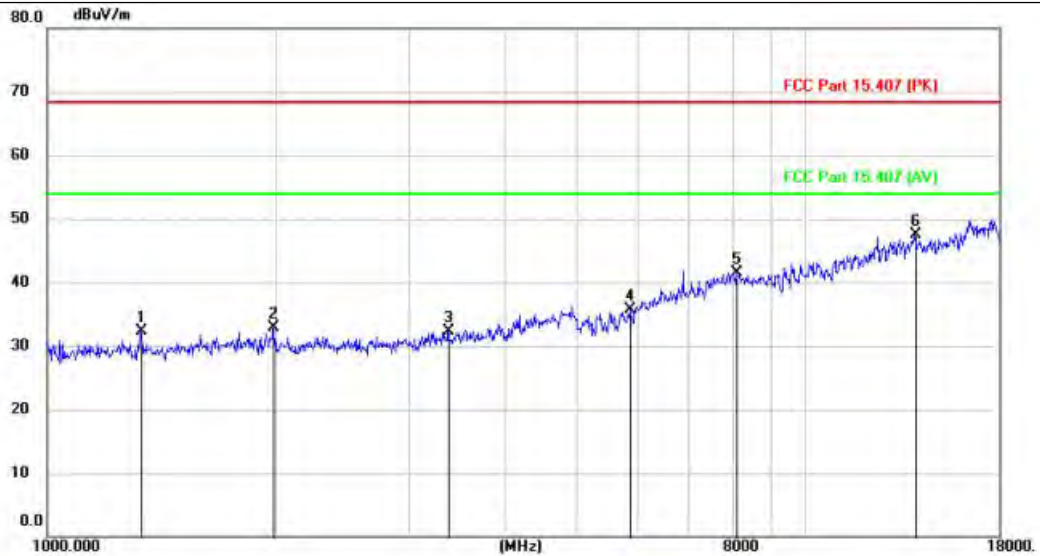
Distance: 3m

Temperature: 26

Humidity: 60 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	cm	degree	
1		1351.900	42.39	-11.94	30.45	68.20	-37.75	peak		
2		1965.600	42.03	-11.08	30.95	68.20	-37.25	peak		
3		3295.000	43.30	-10.05	33.25	68.20	-34.95	peak		
4		4927.000	41.44	-5.59	35.85	68.20	-32.35	peak		
5		7698.000	40.07	1.32	41.39	68.20	-26.81	peak		
6	*	13913.200	36.85	11.12	47.97	68.20	-20.23	peak		

Test Mode:1 / Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: L



Site: 966 Chamber

Limit: FCC Part 15.407 (PK)

EUT: 平板电脑

M/N: AIWO1001A

Mode: 5G-Band I -5180

Note:

Polarization: **Vertical**

Power:

Distance: 3m

Temperature: 26

Humidity: 60 %

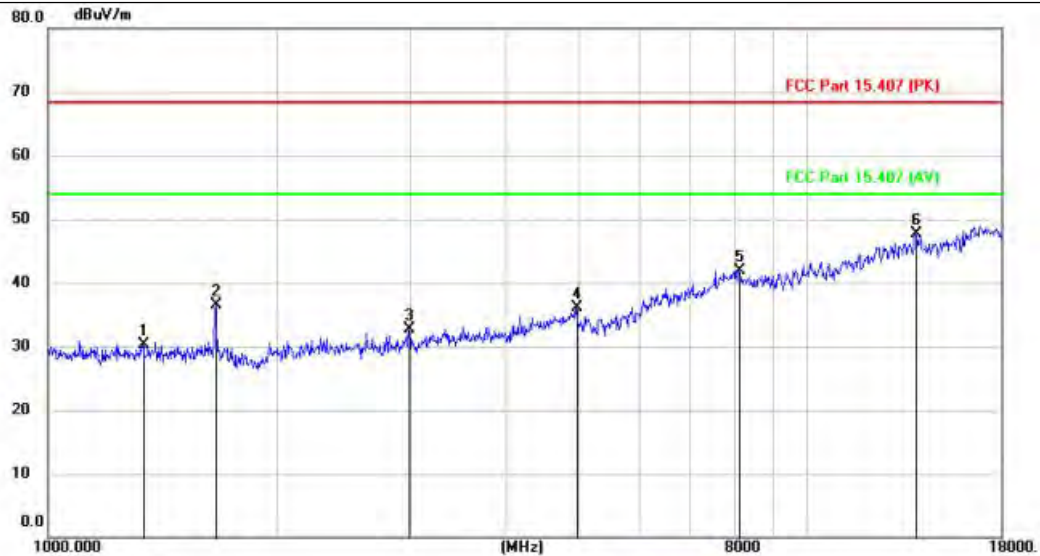
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1329.800	44.18	-11.95	32.23	68.20	-35.97	peak			
2		1986.000	43.97	-11.06	32.91	68.20	-35.29	peak			
3		3380.000	42.24	-9.90	32.34	68.20	-35.86	peak			
4		5877.300	39.73	-4.08	35.65	68.20	-32.55	peak			
5		8123.000	39.53	2.03	41.56	68.20	-26.64	peak			
6	*	13925.100	36.41	11.13	47.54	68.20	-20.66	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: M



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band 1-5200
Note:

Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

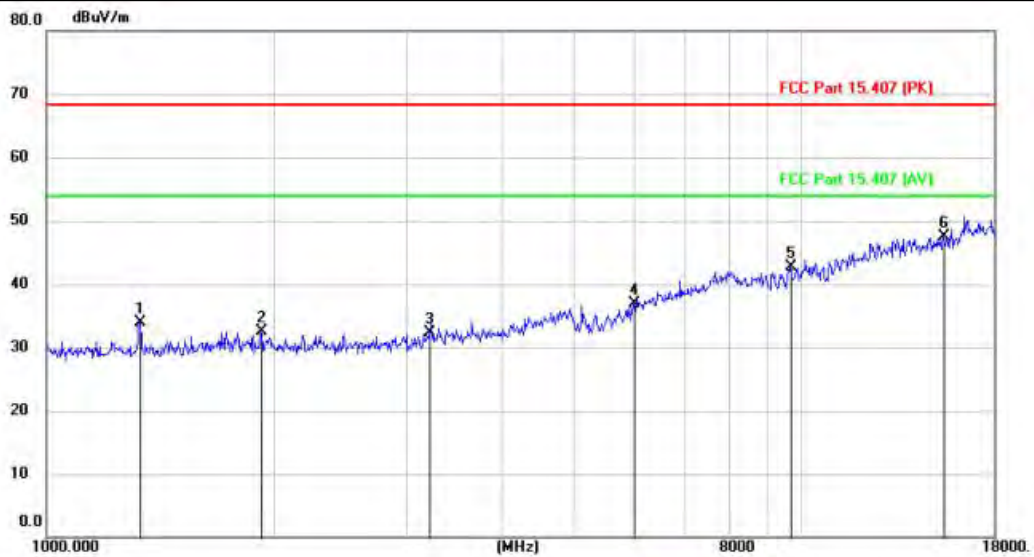
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1331.500	42.22	-11.94	30.28	68.20	-37.92	peak			
2		1664.700	47.91	-11.48	36.43	68.20	-31.77	peak			
3		2989.000	43.37	-10.60	32.77	68.20	-35.43	peak			
4		4962.700	41.62	-5.49	36.13	68.20	-32.07	peak			
5		8150.200	39.87	2.03	41.90	68.20	-26.30	peak			
6	*	13887.700	36.62	11.09	47.71	68.20	-20.49	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: M



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band 1 -5200
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

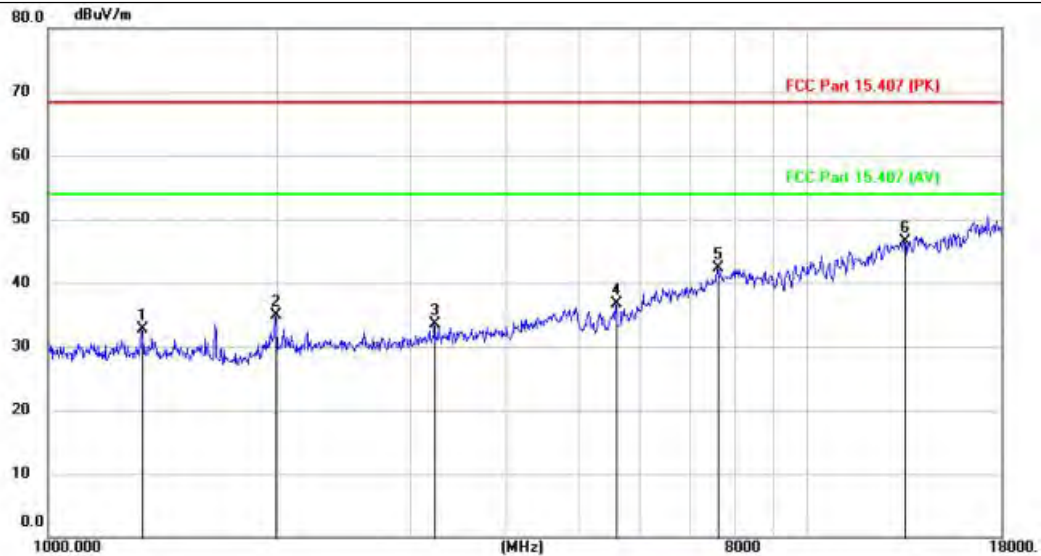
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1329.800	45.83	-11.95	33.88	68.20	-34.32	peak			
2		1926.500	43.70	-11.12	32.58	68.20	-35.62	peak			
3		3218.500	42.43	-10.19	32.24	68.20	-35.96	peak			
4		5998.000	40.74	-3.81	36.93	68.20	-31.27	peak			
5		9680.200	39.35	3.37	42.72	68.20	-25.48	peak			
6	*	15417.700	35.44	11.98	47.42	68.20	-20.78	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: H



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band 1 -5240
Note:

Polarization: **Horizontal**
Power:
Distance: 3m
Temperature: 26
Humidity: 60 %

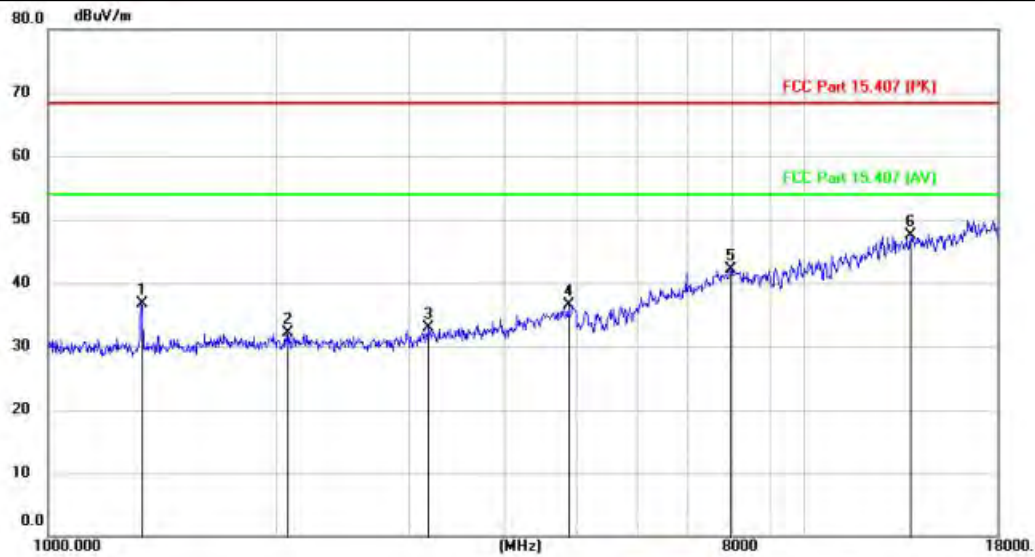
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Antenna Height cm	Table Degree degree	Comment
1		1329.800	44.61	-11.95	32.66	68.20	-35.54	peak		
2		1994.500	46.07	-11.07	35.00	68.20	-33.20	peak		
3		3228.700	43.65	-10.18	33.47	68.20	-34.73	peak		
4		5595.100	41.52	-4.72	36.80	68.20	-31.40	peak		
5		7614.700	41.20	1.11	42.31	68.20	-25.89	peak		
6	*	13438.900	35.93	10.53	46.46	68.20	-21.74	peak		

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: H



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band I -5240
Note:

Polarization: **Vertical**
Power:
Distance: 3m
Temperature: 26
Humidity: 60 %

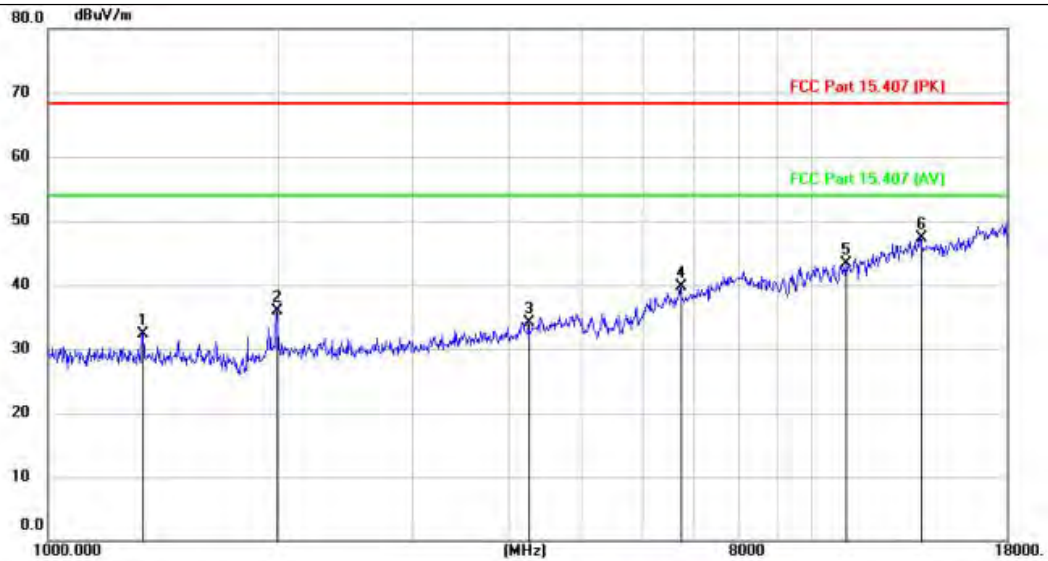
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1328.100	48.60	-11.96	36.64	68.20	-31.56	peak			
2		2065.900	43.06	-11.04	32.02	68.20	-36.18	peak			
3		3184.500	43.15	-10.26	32.89	68.20	-35.31	peak			
4		4879.400	42.14	-5.72	36.42	68.20	-31.78	peak			
5		7985.300	39.99	2.03	42.02	68.20	-26.18	peak			
6	*	13812.900	36.49	10.99	47.48	68.20	-20.72	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 2A / BW: 20 / CH: L



Site: 966 Chamber

Limit: FCC Part 15.407 (PK)

EUT: 平板电脑

M/N: AIWO1001A

Mode: 5G-Band II-5260

Note:

Polarization: **Horizontal**

Power:

Distance: 3m

Temperature: 26

Humidity: 60 %

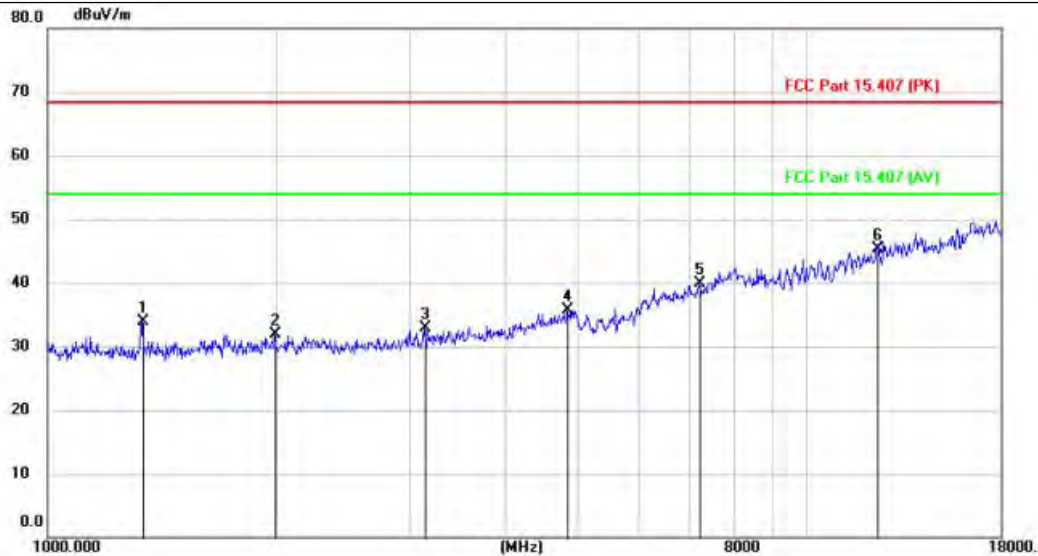
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1328.100	44.29	-11.96	32.33	68.20	-35.87	peak			
2		1992.800	46.95	-11.07	35.88	68.20	-32.32	peak			
3		4262.300	41.66	-7.56	34.10	68.20	-34.10	peak			
4		6735.800	41.06	-1.44	39.62	68.20	-28.58	peak			
5		11098.000	37.37	5.93	43.30	68.20	-24.90	peak			
6	*	13914.900	36.27	11.12	47.39	68.20	-20.81	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 2A / BW: 20 / CH: L



Site 966 Chamber

Limit: FCC Part 15.407 (PK)

EUT: 平板电脑

M/N: AIWO1001A

Mode: 5G-Band II-5260

Note:

Polarization: **Vertical**

Power:

Distance: 3m

Temperature: 26

Humidity: 60 %

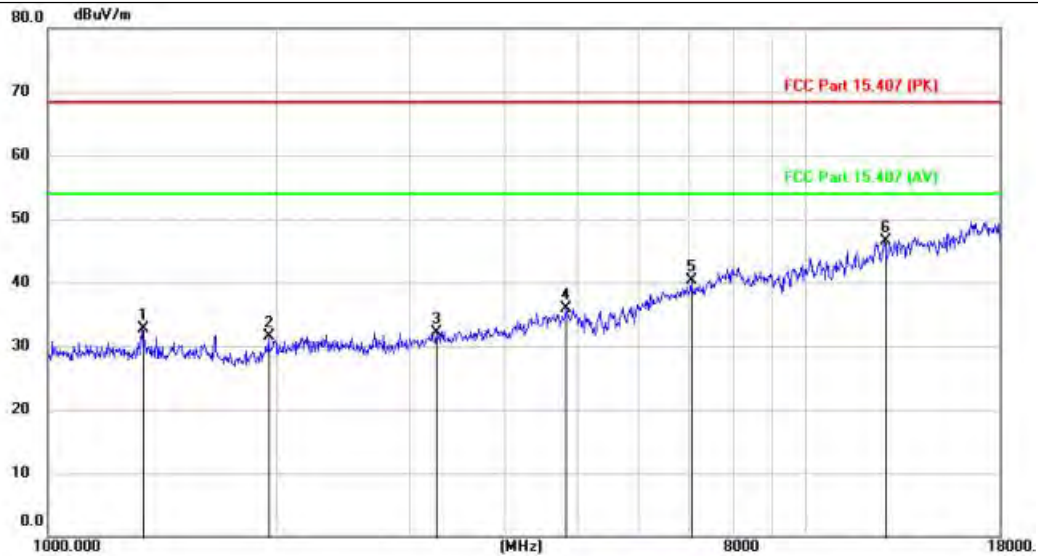
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1333.200	45.79	-11.95	33.84	68.20	-34.36	peak			
2		1994.500	42.90	-11.07	31.83	68.20	-36.37	peak			
3		3135.200	43.24	-10.34	32.90	68.20	-35.30	peak			
4		4842.000	41.59	-5.82	35.77	68.20	-32.43	peak			
5		7220.300	39.86	-0.04	39.82	68.20	-28.38	peak			
6	*	12371.300	36.56	8.69	45.25	68.20	-22.95	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 2A / BW: 20 / CH: M



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band II-5300
Note:

Polarization: **Horizontal**
Power:
Distance: 3m
Temperature: 26
Humidity: 60 %

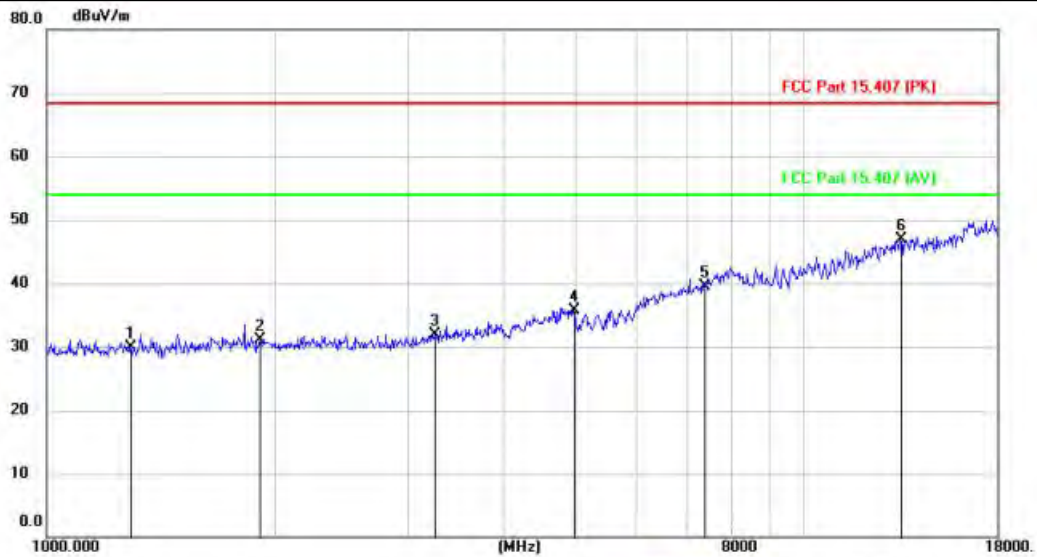
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1333.200	44.56	-11.95	32.61	68.20	-35.59	peak			
2		1960.500	42.51	-11.10	31.41	68.20	-36.79	peak			
3		3252.500	42.27	-10.13	32.14	68.20	-36.06	peak			
4		4826.700	41.70	-5.86	35.84	68.20	-32.36	peak			
5		7067.300	40.89	-0.50	40.39	68.20	-27.81	peak			
6	*	12713.000	37.03	9.38	46.41	68.20	-21.79	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 2A / BW: 20 / CH: M



Site: 966 Chamber

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15.407 (PK)

Power:

Humidity: 60 %

EUT: 平板电脑

Distance: 3m

M/N: AIWO1001A

Mode: 5G-Band II-5300

Note:

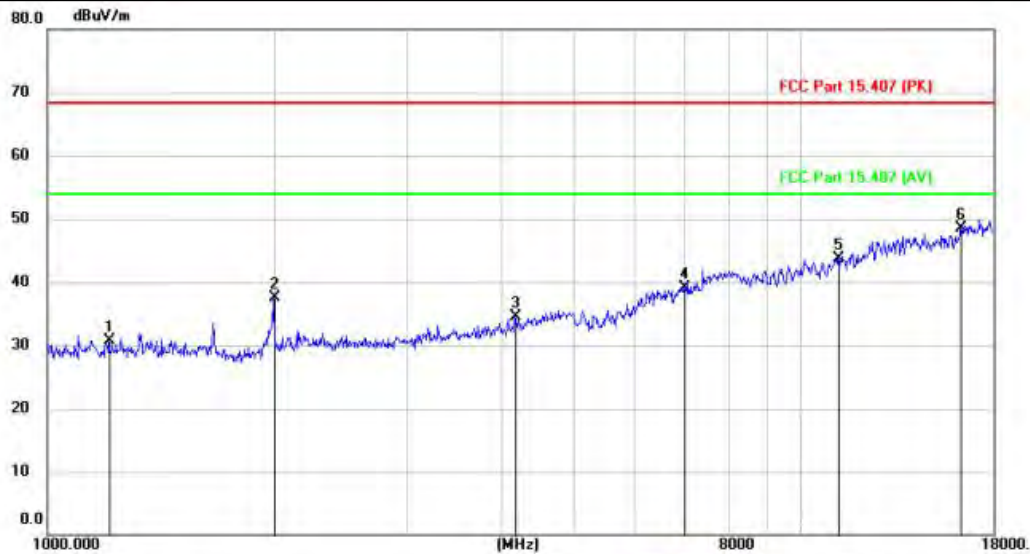
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	cm	degree	Comment
1		1287.300	41.98	-11.99	29.99	68.20	-38.21	peak		
2		1914.600	42.26	-11.14	31.12	68.20	-37.08	peak		
3		3259.300	41.95	-10.11	31.84	68.20	-36.36	peak		
4		4962.700	41.18	-5.49	35.69	68.20	-32.51	peak		
5		7383.500	39.13	0.46	39.59	68.20	-28.61	peak		
6	*	13437.200	36.43	10.53	46.96	68.20	-21.24	peak		

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 2A / BW: 20 / CH: H



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band II -5320
Note:

Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

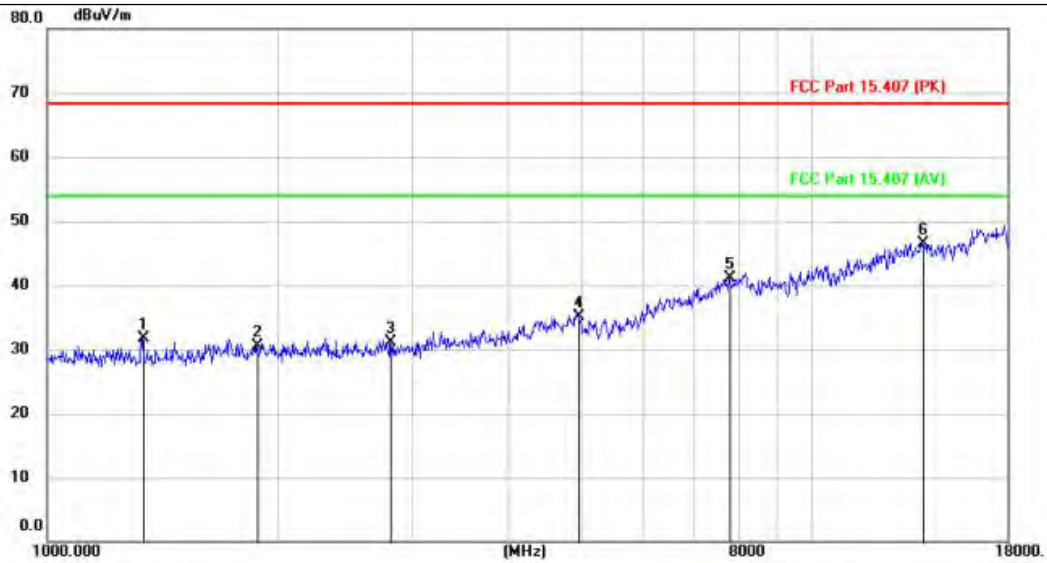
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1207.400	42.65	-12.03	30.62	68.20	-37.58	peak			
2		1997.900	48.51	-11.06	37.45	68.20	-30.75	peak			
3		4179.000	42.36	-7.83	34.53	68.20	-33.67	peak			
4		7011.200	39.71	-0.67	39.04	68.20	-29.16	peak			
5		11198.300	37.45	6.16	43.61	68.20	-24.59	peak			
6	*	16311.900	35.05	13.36	48.41	68.20	-19.79	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 2A / BW: 20 / CH: H



Site 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
MN: AIWO1001A
Mode: 5G-Band II-5320
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

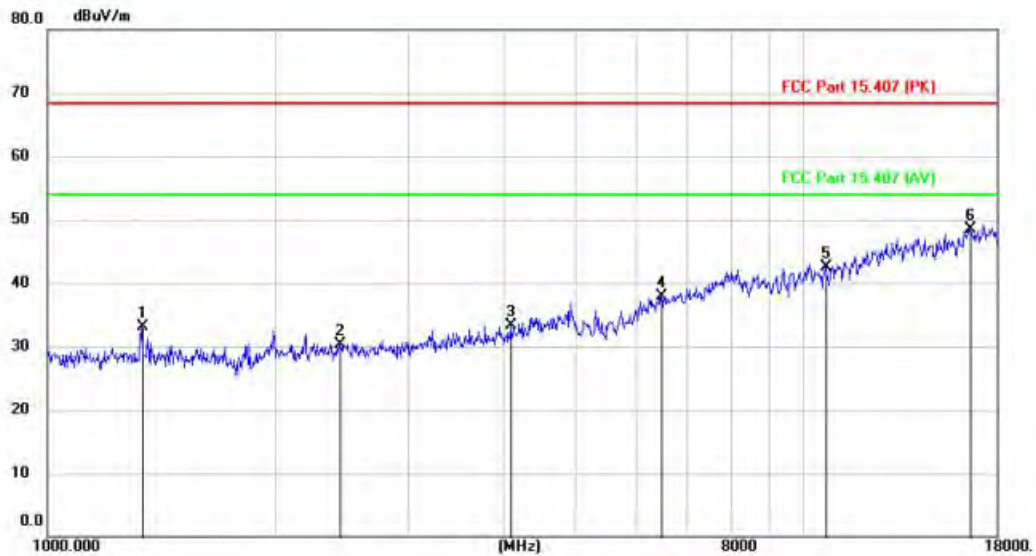
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1333.200	43.68	-11.95	31.73	68.20	-36.47	peak			
2		1880.600	41.57	-11.16	30.41	68.20	-37.79	peak			
3		2807.100	41.79	-10.70	31.09	68.20	-37.11	peak			
4		4949.100	40.61	-5.52	35.09	68.20	-33.11	peak			
5		7796.600	39.50	1.56	41.06	68.20	-27.14	peak			
6	*	13954.000	35.34	11.17	46.51	68.20	-21.69	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 2C / BW: 20 / CH: L



Site 966 Chamber

Limit: FCC Part 15.407 (PK)

EUT: 平板电脑

M/N: AIWO1001A

Mode: 5G-Band III-5500

Note:

Polarization: **Horizontal**

Power:

Distance: 3m

Temperature: 26

Humidity: 60 %

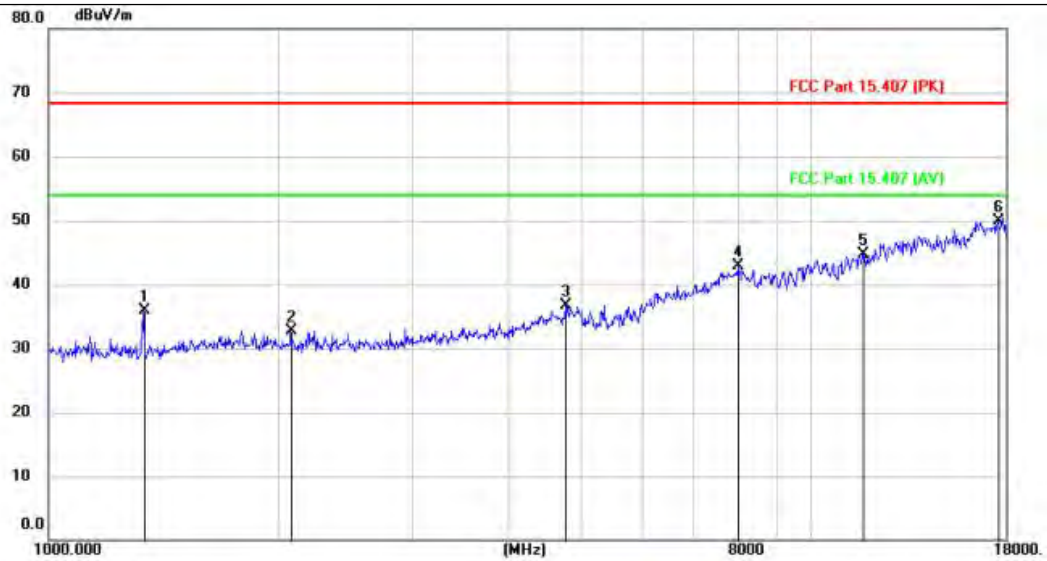
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1331.500	45.14	-11.94	33.20	68.20	-35.00	peak			
2		2431.400	41.14	-10.91	30.23	68.20	-37.97	peak			
3		4107.600	41.41	-8.07	33.34	68.20	-34.86	peak			
4		6470.600	40.19	-2.20	37.99	68.20	-30.21	peak			
5		10725.700	37.20	5.27	42.47	68.20	-25.73	peak			
6	*	16561.800	34.84	13.71	48.55	68.20	-19.65	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 2C / BW: 20 / CH: L



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band III-5500
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

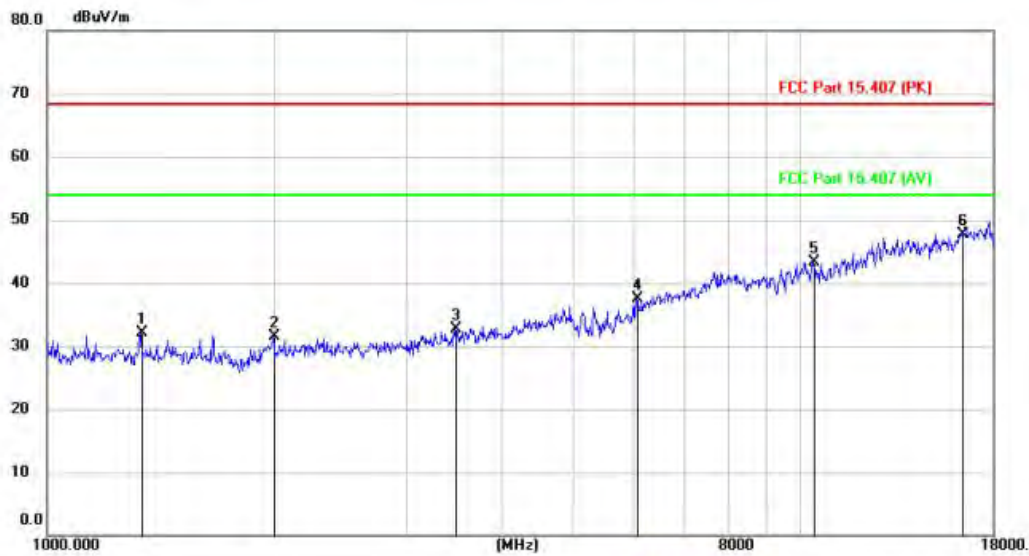
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Antenna Height cm	Table Degree degree	Comment
1		1331.500	47.90	-11.94	35.96	68.20	-32.24	peak		
2		2077.800	43.74	-11.03	32.71	68.20	-35.49	peak		
3		4768.900	42.70	-6.02	36.68	68.20	-31.52	peak		
4		8017.600	40.77	2.07	42.84	68.20	-25.36	peak		
5		11694.700	37.48	7.26	44.74	68.20	-23.46	peak		
6	*	17558.000	36.44	13.42	49.86	68.20	-18.34	peak		

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 2C / BW: 20 / CH: M



Site: 966 Chamber

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15.407 (PK)

Power:

Humidity: 60 %

EUT: 平板电脑

Distance: 3m

M/N: AIWO1001A

Mode: 5G-Band III-5580

Note:

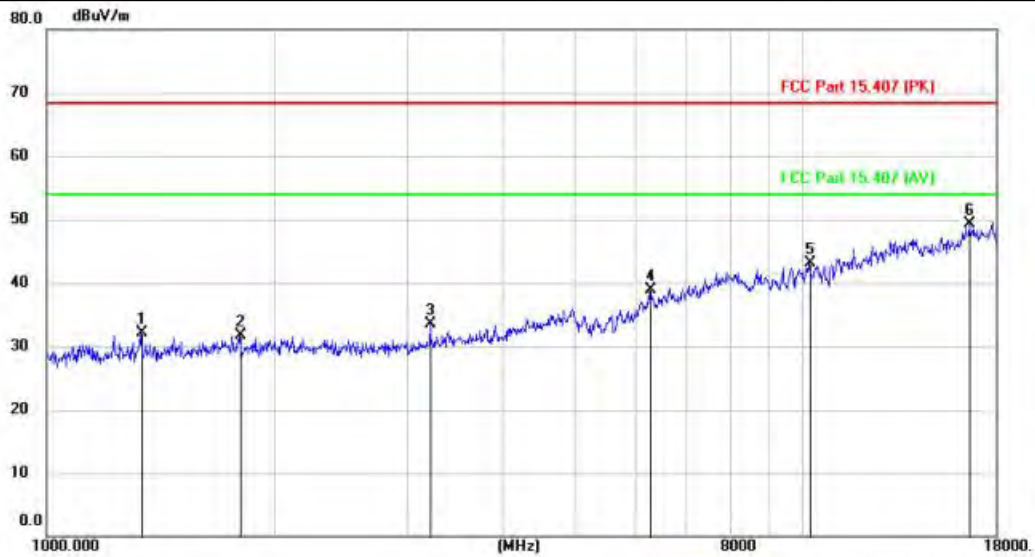
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	cm	degree	Comment
1		1331.500	43.99	-11.94	32.05	68.20	-36.15	peak		
2		1996.200	42.60	-11.06	31.54	68.20	-36.66	peak		
3		3482.000	42.42	-9.71	32.71	68.20	-35.49	peak		
4		6057.500	41.08	-3.60	37.48	68.20	-30.72	peak		
5		10423.100	38.59	4.78	43.37	68.20	-24.83	peak		
6	*	16396.900	34.13	13.56	47.69	68.20	-20.51	peak		

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: M



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band III-5580
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

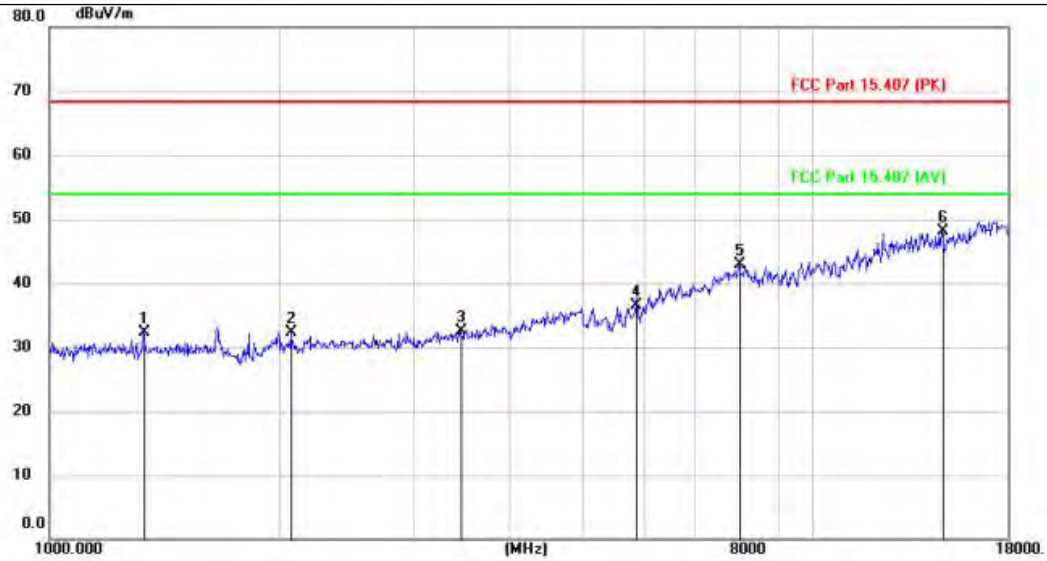
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1333.200	44.03	-11.95	32.08	68.20	-36.12	peak			
2		1799.000	42.87	-11.23	31.64	68.20	-36.56	peak			
3		3223.600	43.63	-10.19	33.44	68.20	-34.76	peak			
4		6283.600	41.82	-2.84	38.98	68.20	-29.22	peak			
5		10186.800	38.62	4.39	43.01	68.20	-25.19	peak			
6	*	16626.400	35.66	13.61	49.27	68.20	-18.93	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 2C / BW: 20 / CH: H



Site 966 Chamber

Limit: FCC Part 15.407 (PK)

EUT: 平板电脑

M/N: AIWO1001A

Mode: 5G-Band III-5700

Note:

Polarization: **Horizontal**

Power:

Distance: 3m

Temperature: 26

Humidity: 60 %

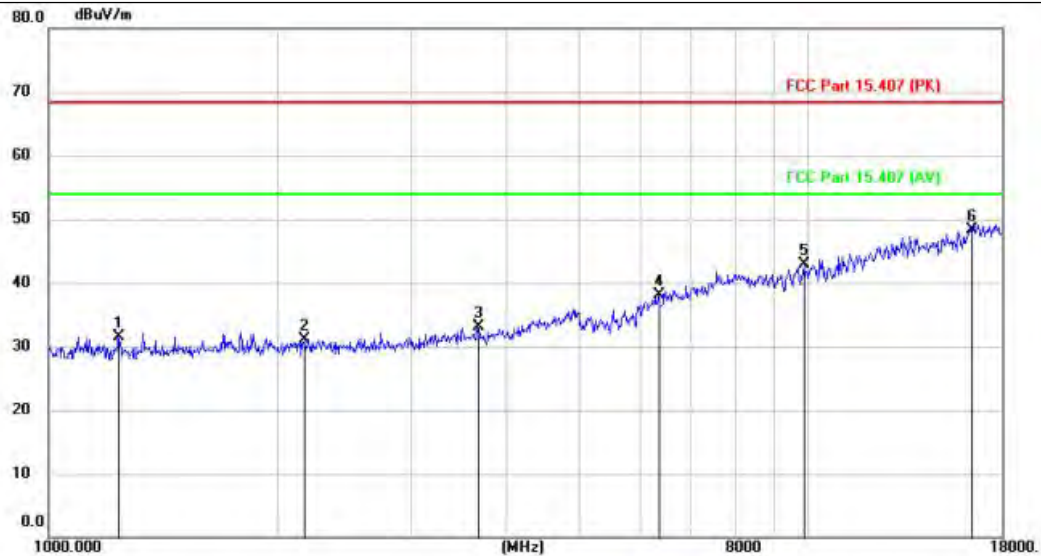
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1328.100	44.29	-11.96	32.33	68.20	-35.87	peak			
2		2076.100	43.43	-11.03	32.40	68.20	-35.80	peak			
3		3456.500	42.17	-9.76	32.41	68.20	-35.79	peak			
4		5867.100	40.51	-4.10	36.41	68.20	-31.79	peak			
5		7990.400	40.84	2.04	42.88	68.20	-25.32	peak			
6	*	14781.900	36.98	11.11	48.09	68.20	-20.11	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 2C / BW: 20 / CH: H



Site: 966 Chamber

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15.407 (PK)

Power:

Humidity: 60 %

EUT: 平板电脑

Distance: 3m

M/N: AIWO1001A

Mode: 5G-Band III-5700

Note:

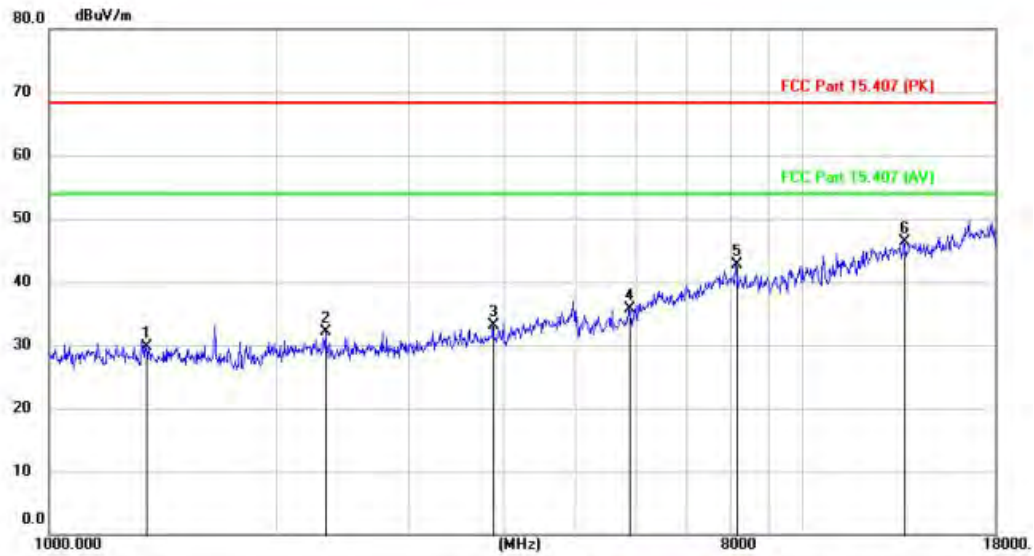
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1238.000	43.58	-12.00	31.58	68.20	-36.62	peak			
2		2174.700	42.17	-11.00	31.17	68.20	-37.03	peak			
3		3674.100	42.25	-9.24	33.01	68.20	-35.19	peak			
4		6375.400	40.62	-2.53	38.09	68.20	-30.11	peak			
5		9884.200	39.04	3.82	42.86	68.20	-25.34	peak			
6	*	16403.700	34.65	13.58	48.23	68.20	-19.97	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 3 / BW: 20 / CH: L



Site 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band IV-5745
Note:

Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

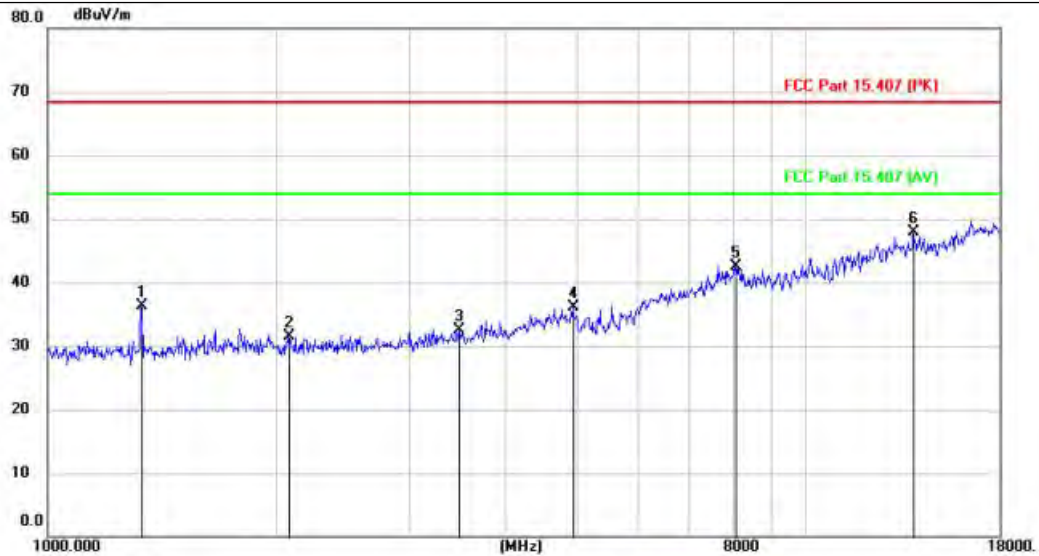
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	cm	degree	Comment
1	1343.400	41.73	-11.95	29.78	68.20	-38.42	peak		
2	2329.400	43.14	-10.95	32.19	68.20	-36.01	peak		
3	3884.900	41.85	-8.72	33.13	68.20	-35.07	peak		
4	5884.100	39.67	-4.06	35.61	68.20	-32.59	peak		
5	8157.000	40.72	2.03	42.75	68.20	-25.45	peak		
6 *	13625.900	35.50	10.77	46.27	68.20	-21.93	peak		

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 3 / BW: 20 / CH: L



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band IV-5745
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

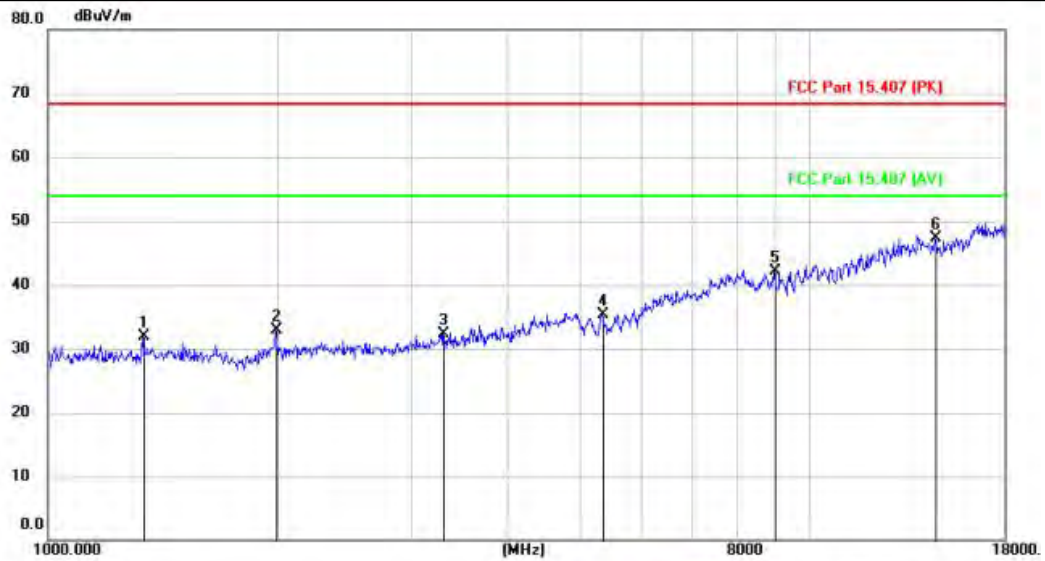
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1329.800	48.32	-11.95	36.37	68.20	-31.83	peak			
2		2082.900	42.48	-11.03	31.45	68.20	-36.75	peak			
3		3495.600	42.26	-9.68	32.58	68.20	-35.62	peak			
4		4933.800	41.58	-5.57	36.01	68.20	-32.19	peak			
5		8073.700	40.56	2.04	42.60	68.20	-25.60	peak			
6	*	13860.500	36.85	11.06	47.91	68.20	-20.29	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 3 / BW: 20 / CH: M



Site: 966 Chamber

Limit: FCC Part 15.407 (PK)

EUT: 平板电脑

M/N: AIWO1001A

Mode: 5G-Band IV-5785

Note:

Polarization: **Horizontal**

Power:

Distance: 3m

Temperature: 26

Humidity: 60 %

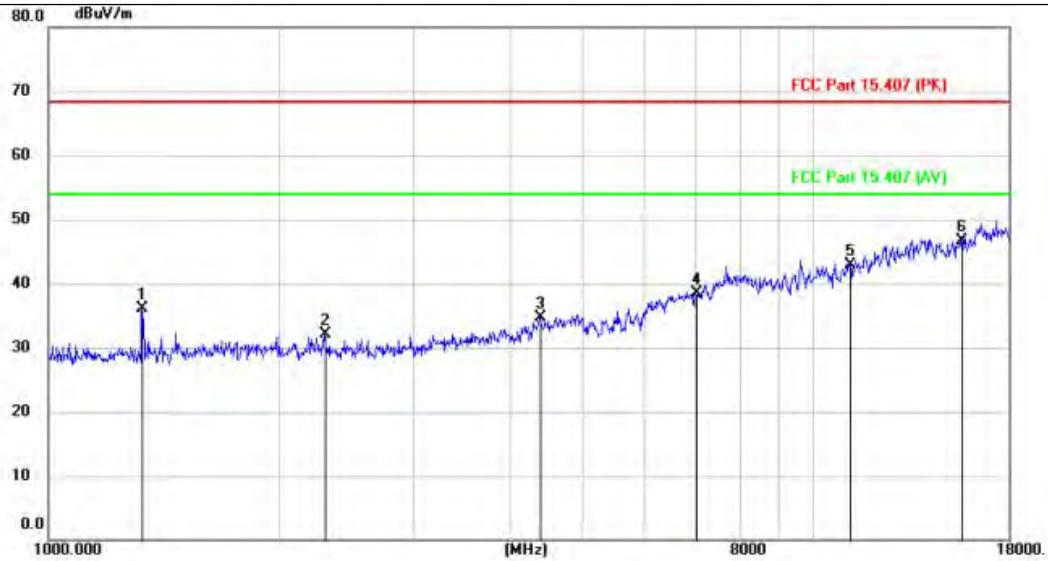
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1331.500	43.88	-11.94	31.94	68.20	-36.26	peak			
2		1994.500	43.88	-11.07	32.81	68.20	-35.39	peak			
3		3306.900	42.30	-10.04	32.26	68.20	-35.94	peak			
4		5340.100	40.42	-5.07	35.35	68.20	-32.85	peak			
5		8971.300	40.22	1.83	42.05	68.20	-26.15	peak			
6	*	14603.400	36.63	10.77	47.40	68.20	-20.80	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 3 / BW: 20 / CH: M



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band IV-5785
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

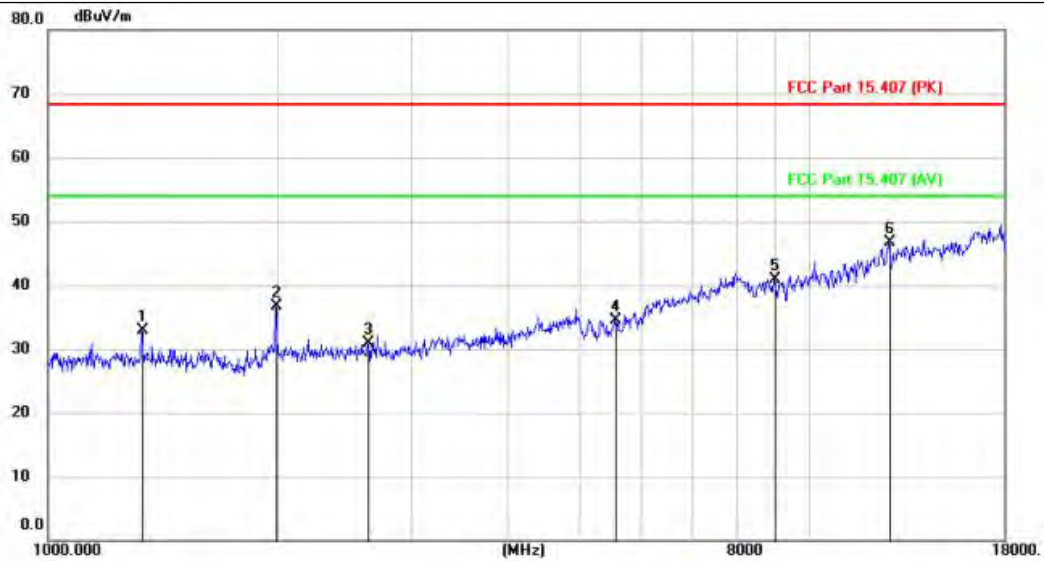
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1326.400	48.02	-11.96	36.06	68.20	-32.14	peak			
2		2293.700	43.09	-10.96	32.13	68.20	-36.07	peak			
3		4401.700	41.73	-7.08	34.65	68.20	-33.55	peak			
4		7021.400	39.12	-0.65	38.47	68.20	-29.73	peak			
5		11149.000	36.96	6.04	43.00	68.20	-25.20	peak			
6	*	15582.600	34.62	12.13	46.75	68.20	-21.45	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

Test Mode:1 / Polarization: Horizontal / Band: U-NII 3 / BW: 20 / CH: H



Site 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band IV-5825
Note:

Polarization: **Horizontal** Temperature: 26
Power: Humidity: 60 %
Distance: 3m

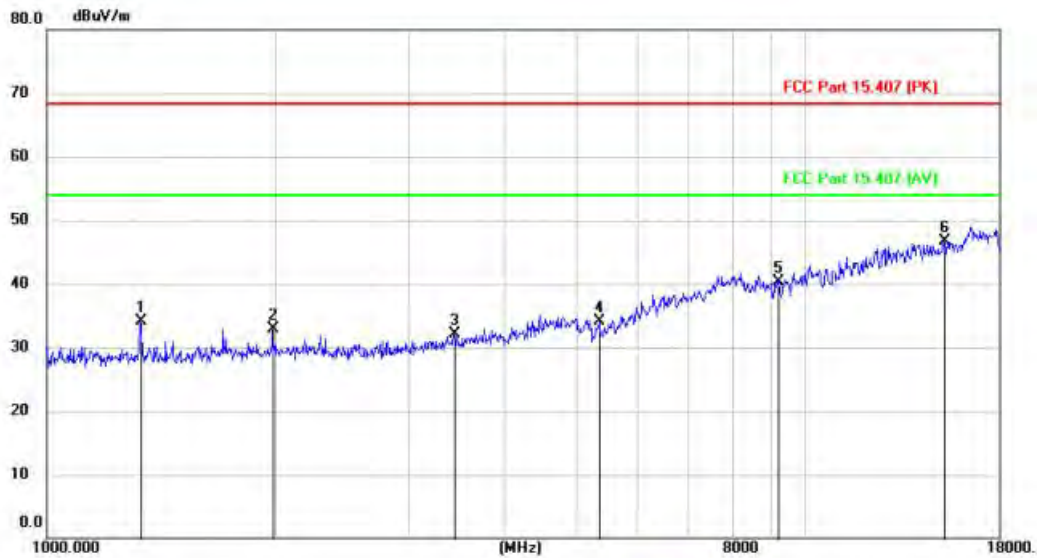
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Antenna Height cm	Table Degree degree	Comment
1		1329.800	44.93	-11.95	32.98	68.20	-35.22	peak			
2		1991.100	47.75	-11.07	36.68	68.20	-31.52	peak			
3		2628.600	41.78	-10.81	30.97	68.20	-37.23	peak			
4		5561.100	39.26	-4.79	34.47	68.20	-33.73	peak			
5		8976.400	39.00	1.83	40.83	68.20	-27.37	peak			
6	*	12702.800	37.31	9.36	46.67	68.20	-21.53	peak			

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode:1 / Polarization: Vertical / Band: U-NII 3 / BW: 20 / CH: H



Site: 966 Chamber
Limit: FCC Part 15.407 (PK)
EUT: 平板电脑
M/N: AIWO1001A
Mode: 5G-Band IV-5825
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	cm	degree	Comment
1		1328.100	46.09	-11.96	34.13	68.20	-34.07	peak		
2		1984.300	43.95	-11.07	32.88	68.20	-35.32	peak		
3		3437.800	41.84	-9.79	32.05	68.20	-36.15	peak		
4		5350.300	39.14	-5.07	34.07	68.20	-34.13	peak		
5		9187.200	37.99	2.25	40.24	68.20	-27.96	peak		
6	*	15227.300	34.84	11.78	46.62	68.20	-21.58	peak		

Note:

- 1) All modes have been tested, found 802.11a which it is worse case for 1GHz-40GHz , so only show the test data for worse case.
- 2) 18GHz-40GHz is the background of the site, there is no radiated spurious.

TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

6. Test Setup Photos



TRF No. FCC Part 15.407_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

7. EUT Constructional Details (EUT Photos)

Please refer to External Photographs and Internal Photographs.

Appendix

Appendix A1: 26dB Emission Bandwidth

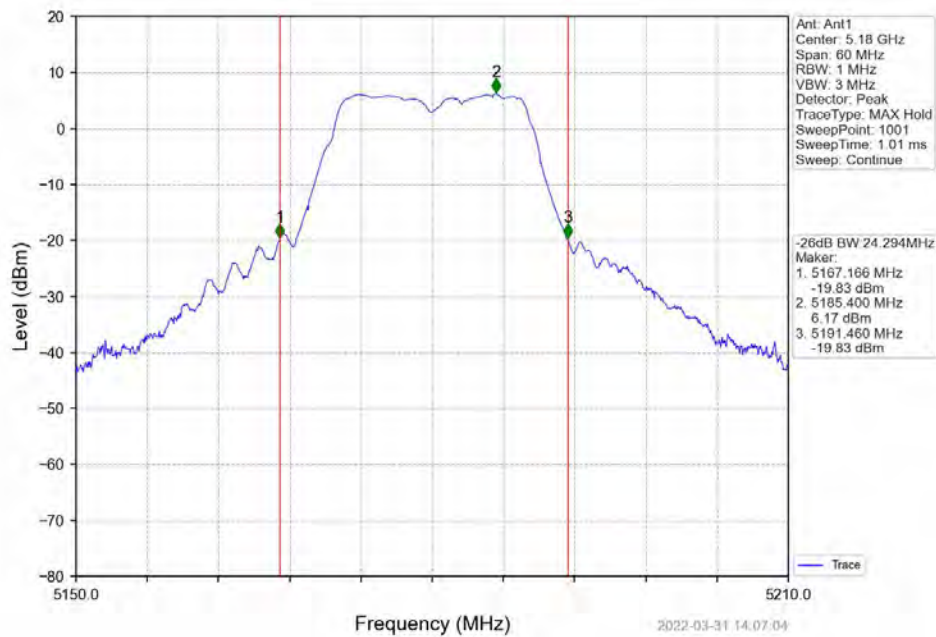
Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.294	---	PASS
		5200	22.640	---	PASS
		5240	22.747	---	PASS
		5260	22.735	---	PASS
		5300	22.808	---	PASS
		5320	22.787	---	PASS
		5500	22.609	---	PASS
		5580	22.566	---	PASS
11N20SISO	Ant1	5700	29.502	---	PASS
		5180	23.304	---	PASS
		5200	23.236	---	PASS
		5240	23.323	---	PASS
		5260	23.229	---	PASS
		5300	23.365	---	PASS
		5320	27.184	---	PASS
		5500	23.410	---	PASS
11N40SISO	Ant1	5580	23.319	---	PASS
		5700	39.292	---	PASS
		5190	44.683	---	PASS
		5230	44.771	---	PASS
		5270	44.727	---	PASS
		5310	44.829	---	PASS
		5510	44.788	---	PASS
11AC20SISO	Ant1	5550	44.509	---	PASS
		5670	46.667	---	PASS
		5180	23.314	---	PASS
		5200	23.212	---	PASS
		5240	23.300	---	PASS
		5260	23.319	---	PASS
		5300	23.347	---	PASS
		5320	24.246	---	PASS
		5500	23.376	---	PASS
		5580	23.212	---	PASS
		5700	32.375	---	PASS

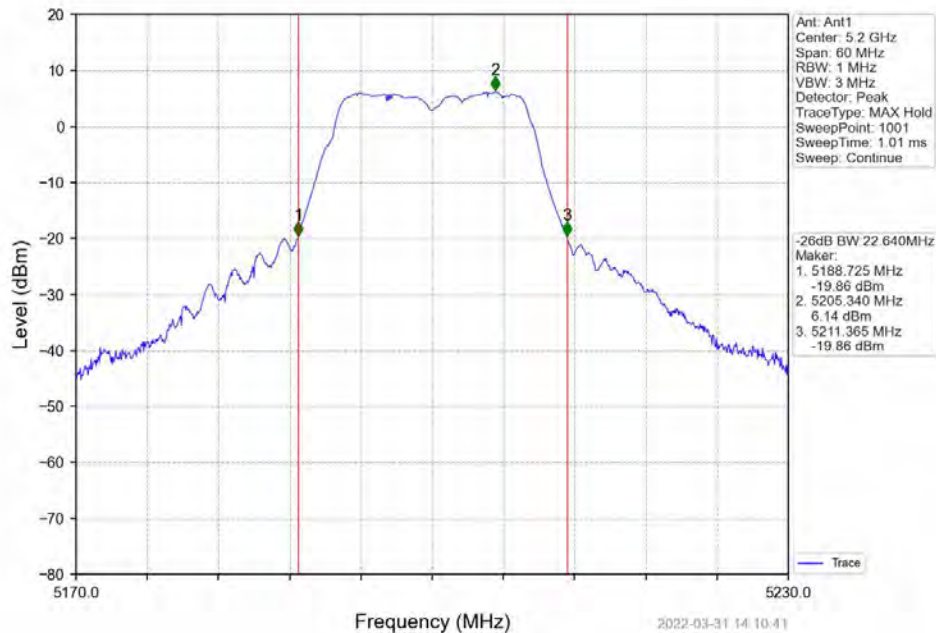
11AC40SISO	Ant1	5190	44.639	---	PASS
		5230	44.651	---	PASS
		5270	44.497	---	PASS
		5310	45.170	---	PASS
		5510	44.751	---	PASS
		5550	44.547	---	PASS
		5670	46.484	---	PASS
11AC80SISO	Ant1	5210	84.082	---	PASS
		5290	84.583	---	PASS
		5530	84.538	---	PASS
		5610	84.521	---	PASS

Test Graphs

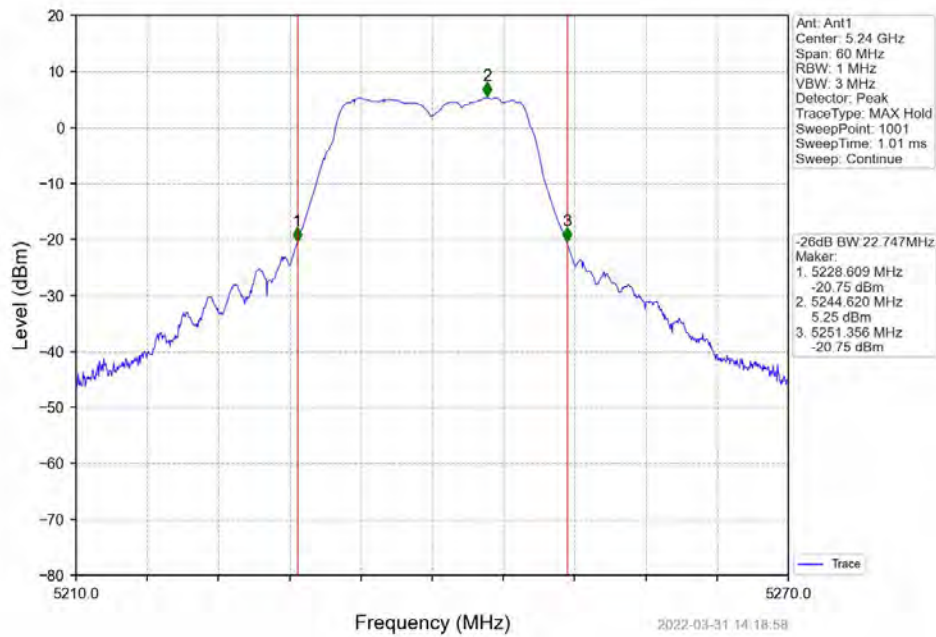
802.11a_LCH_5180MHz_Ant1_NTNV



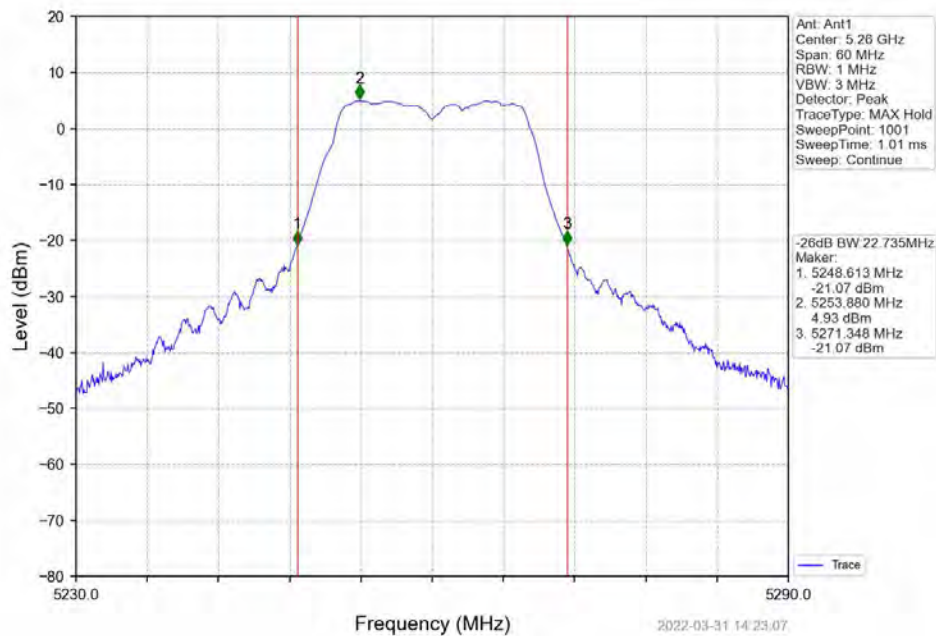
802.11a_MCH_5200MHz_Ant1_NTNV



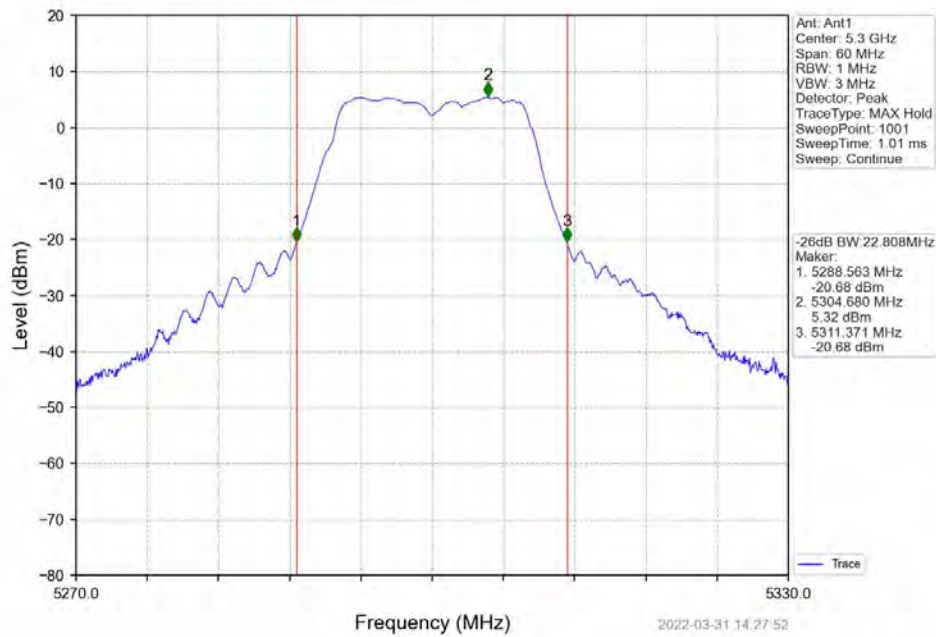
802.11a_HCH_5240MHz_Ant1_NTNV



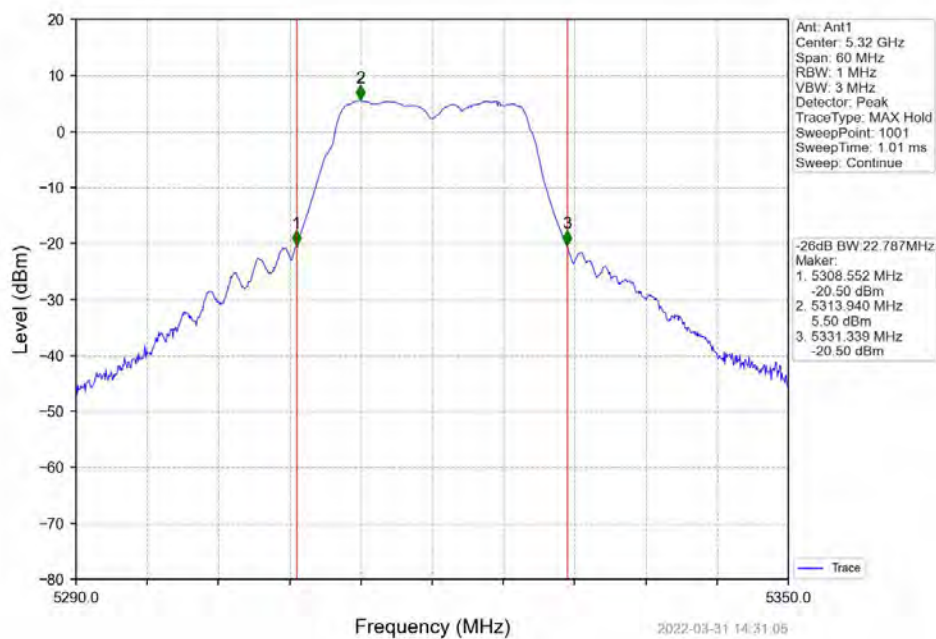
802.11a_LCH_5260MHz_Ant1_NTNV



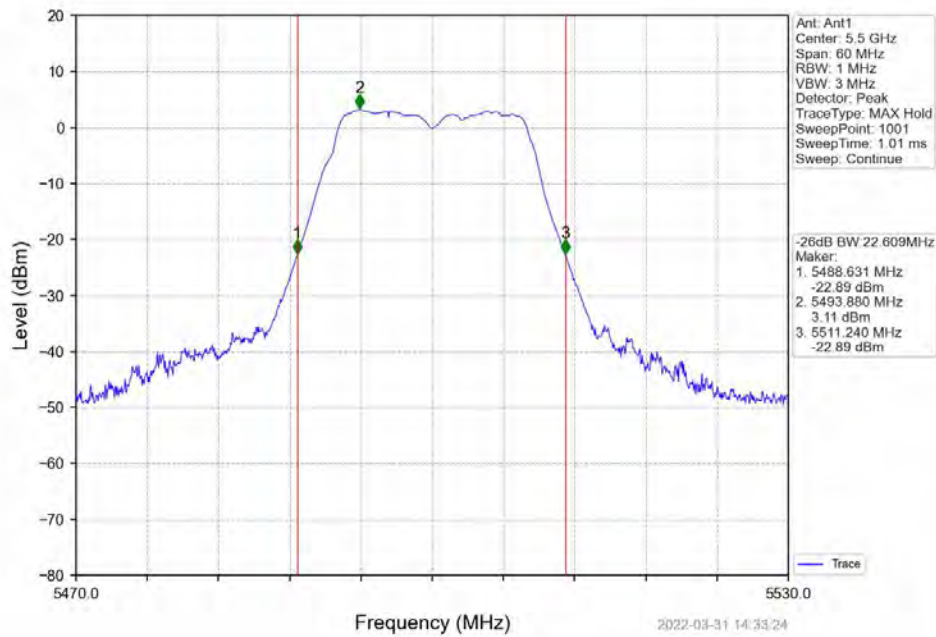
802.11a_MCH_5300MHz_Ant1_NTNV



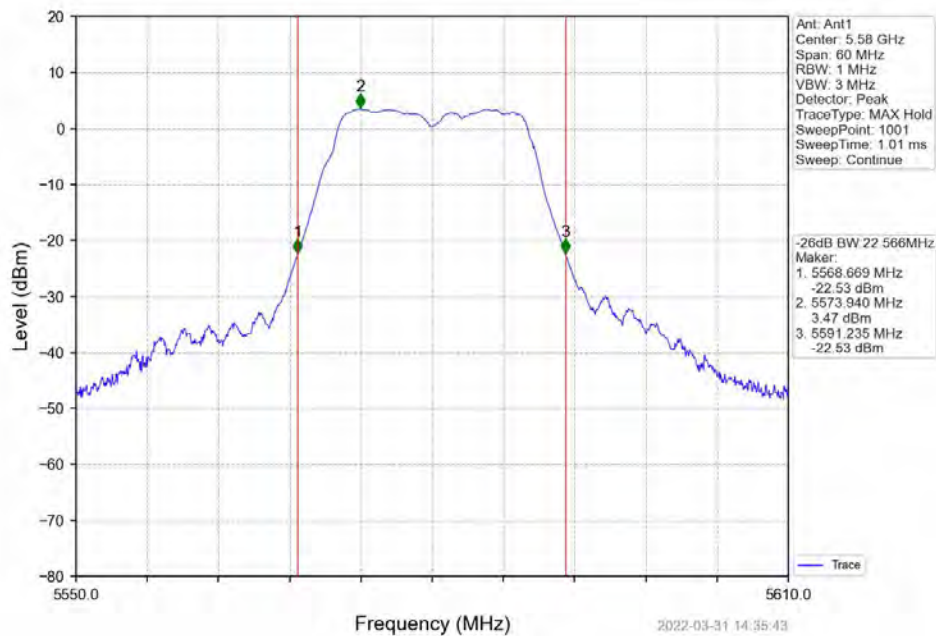
802.11a_HCH_5320MHz_Ant1_NTNV



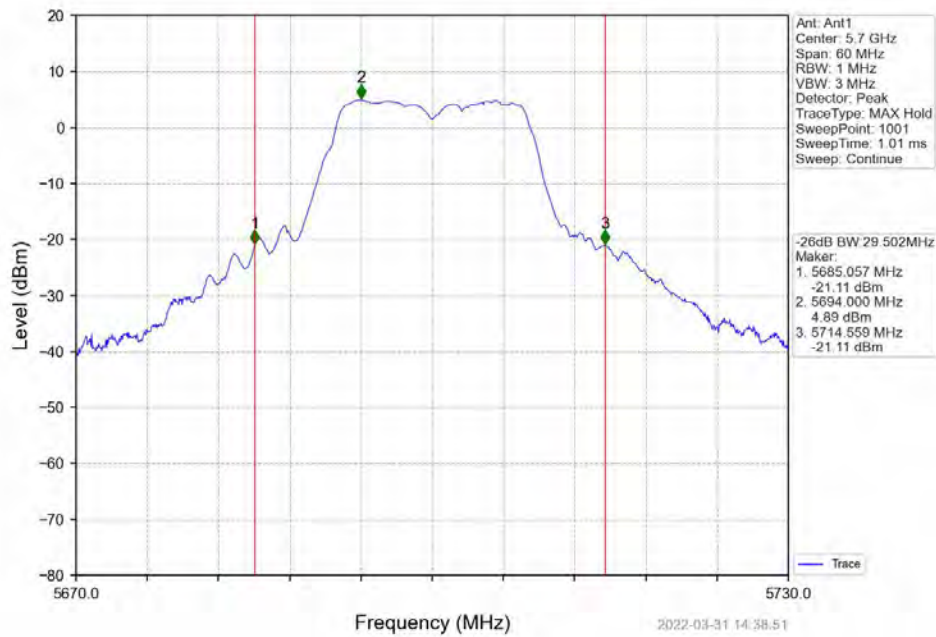
802.11a_LCH_5500MHz_Ant1_NTNV



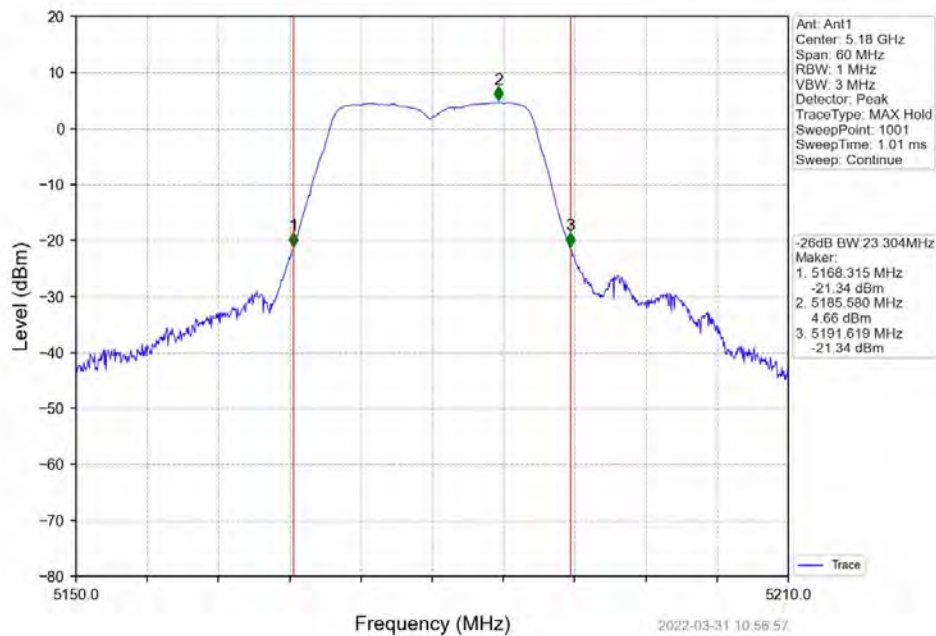
802.11a_MCH_5580MHz_Ant1_NTNV



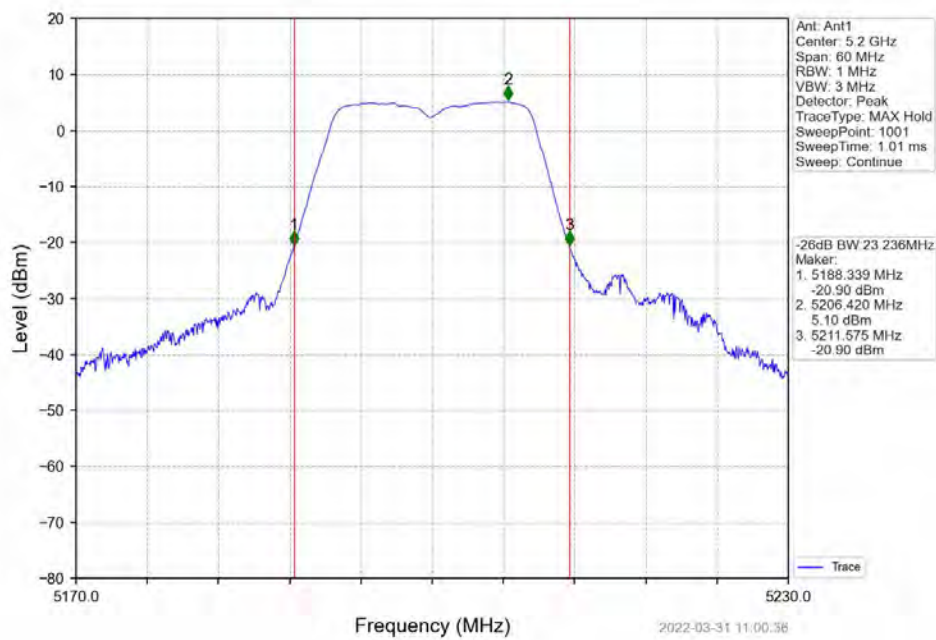
802.11a_HCH_5700MHz_Ant1_NTNV



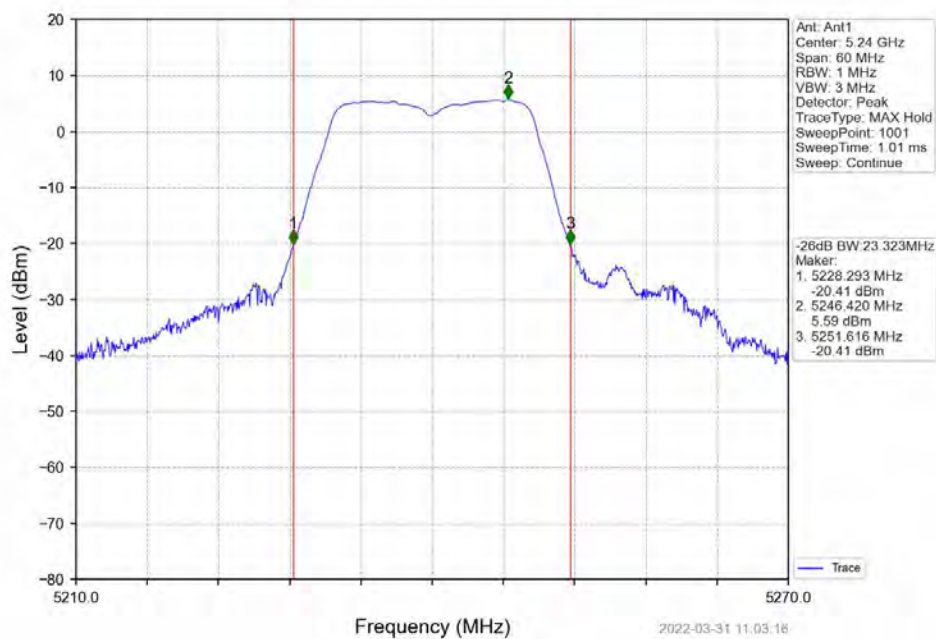
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



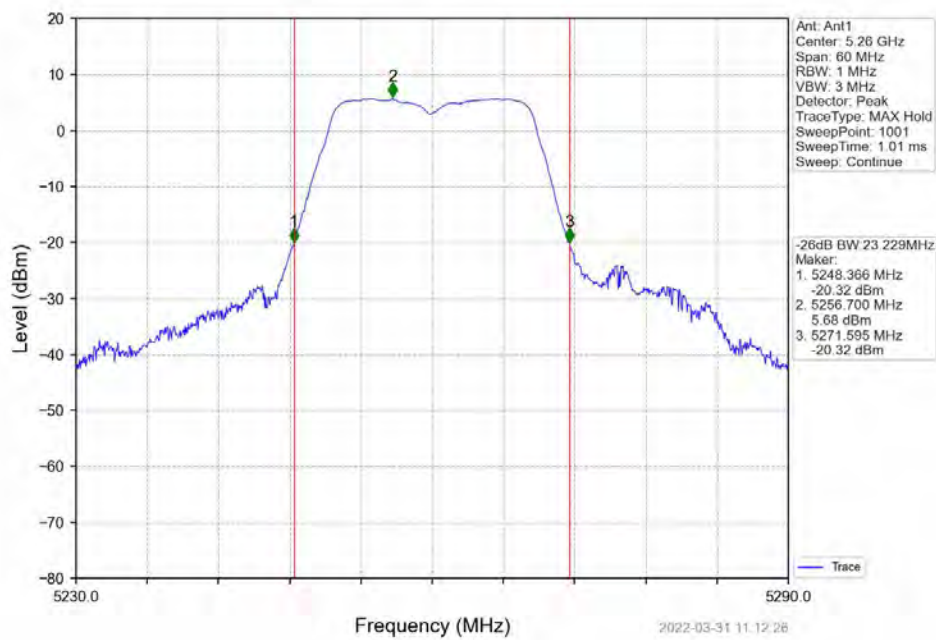
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



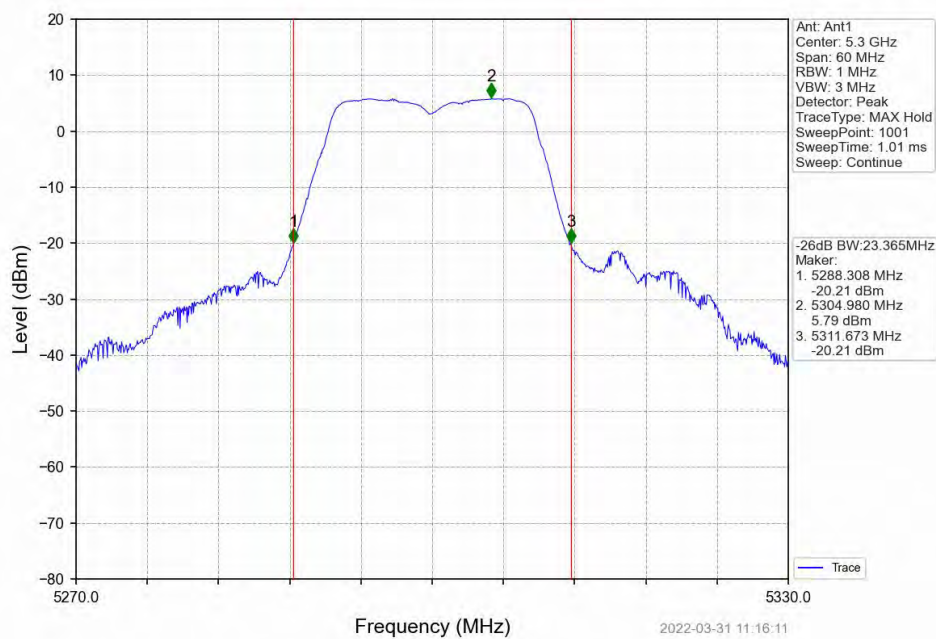
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



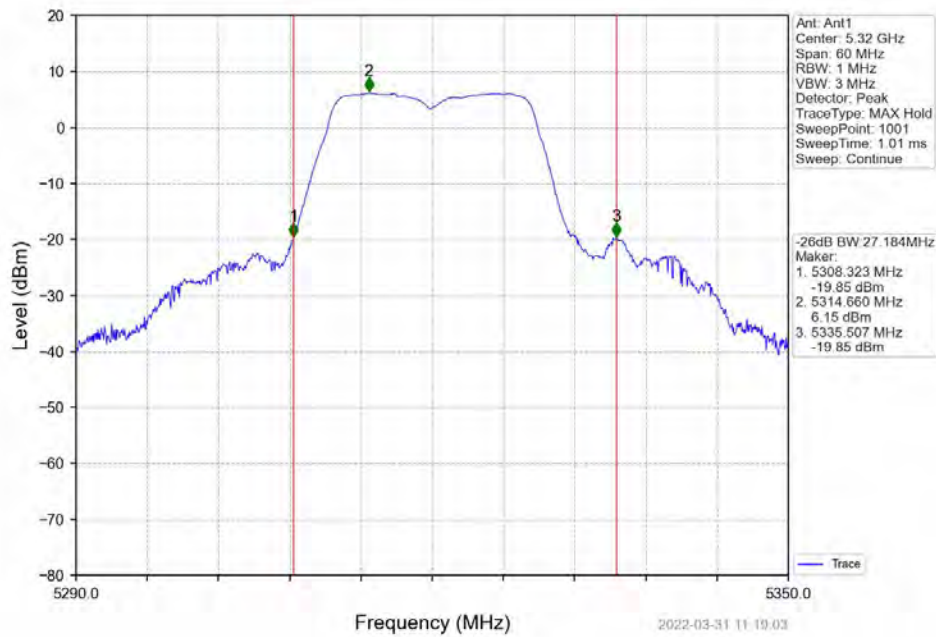
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



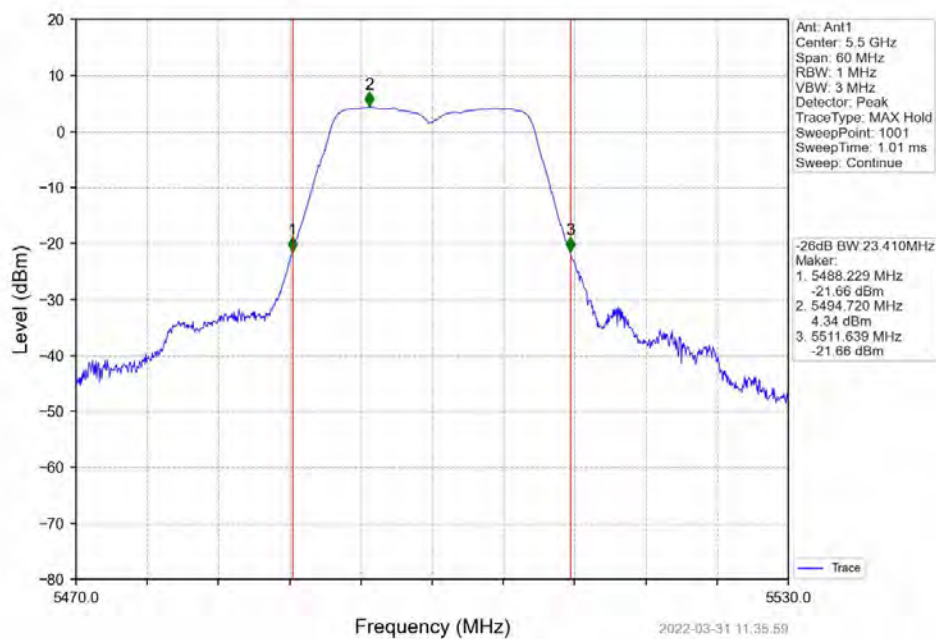
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



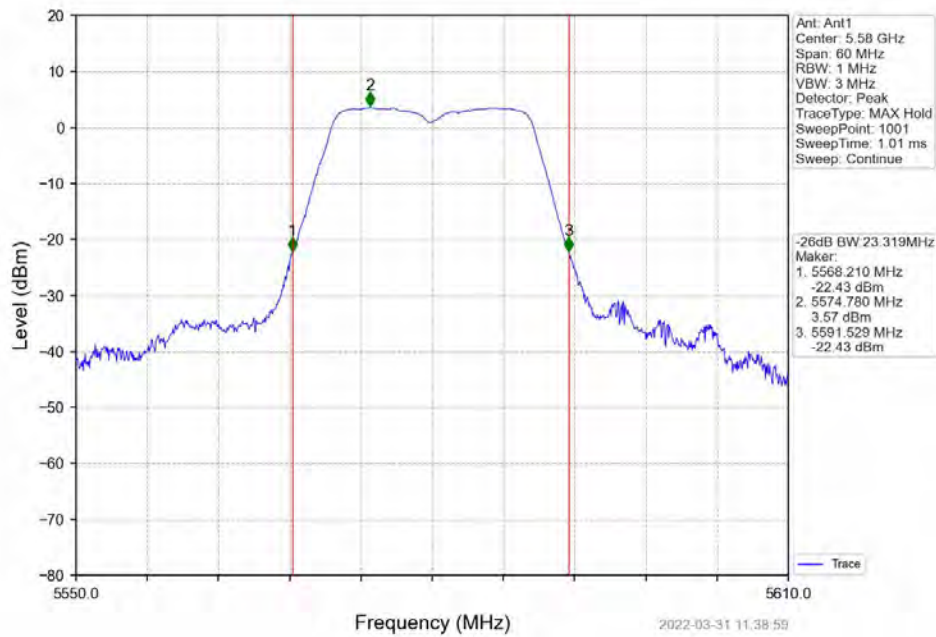
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



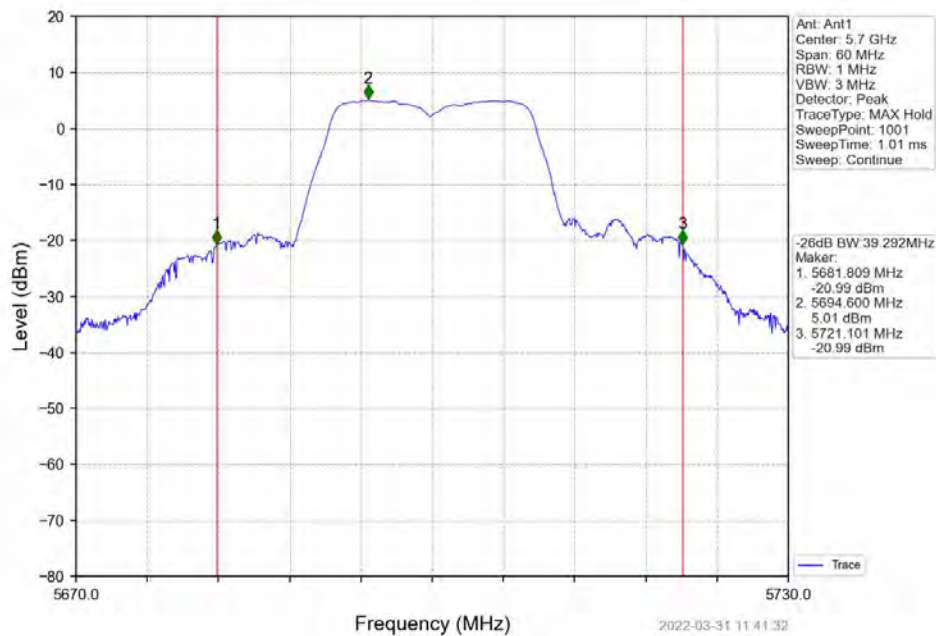
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



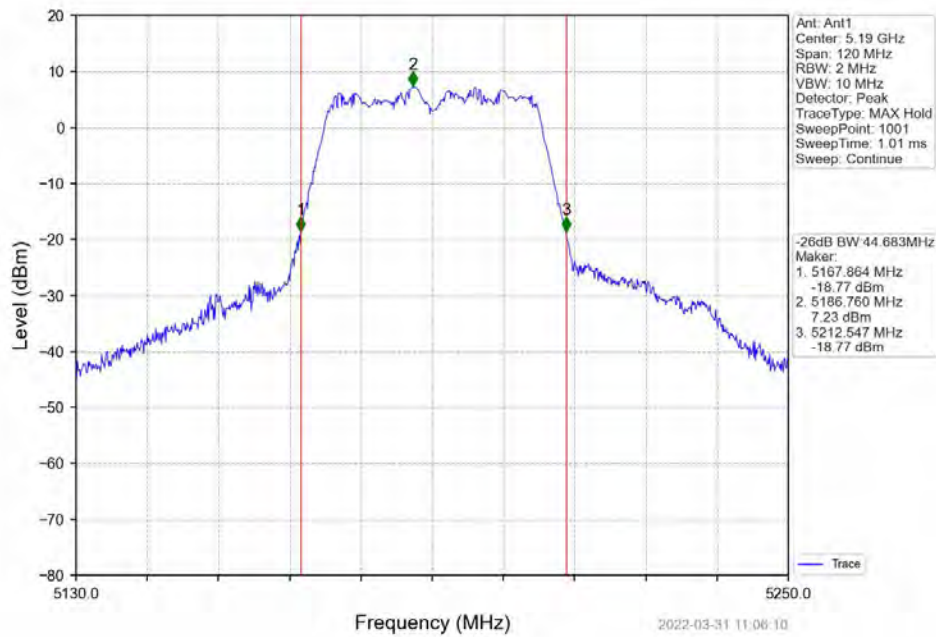
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



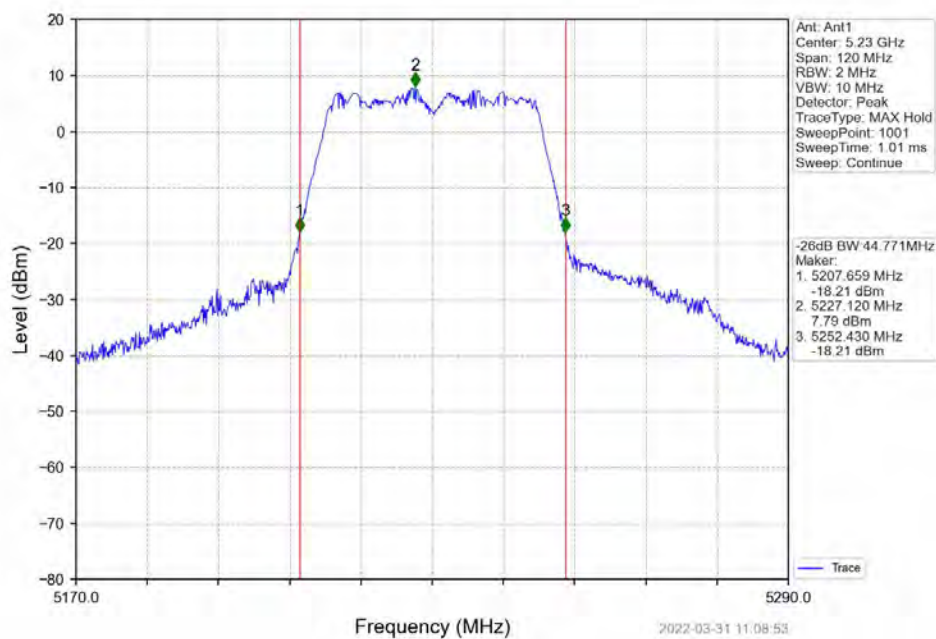
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



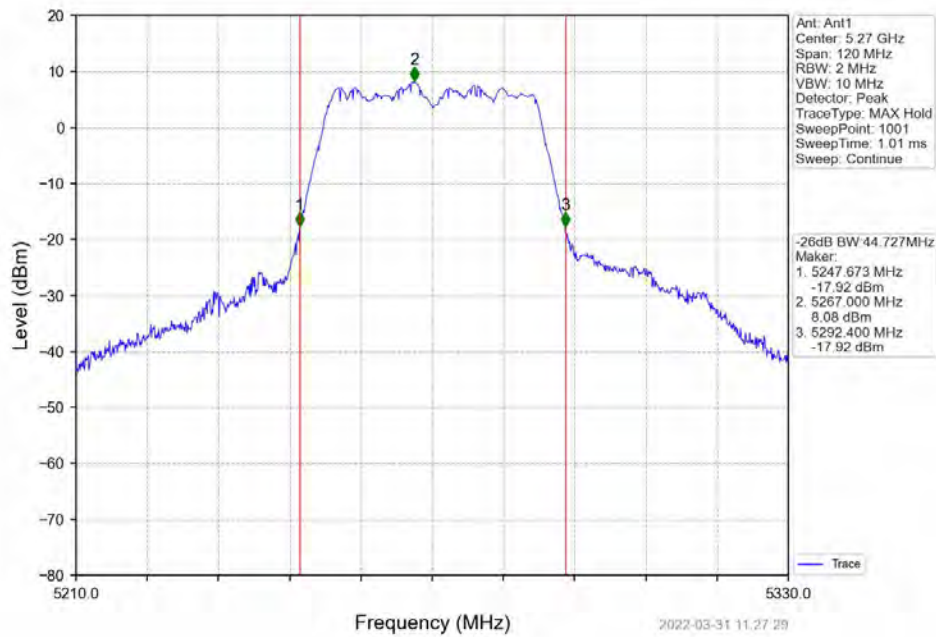
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



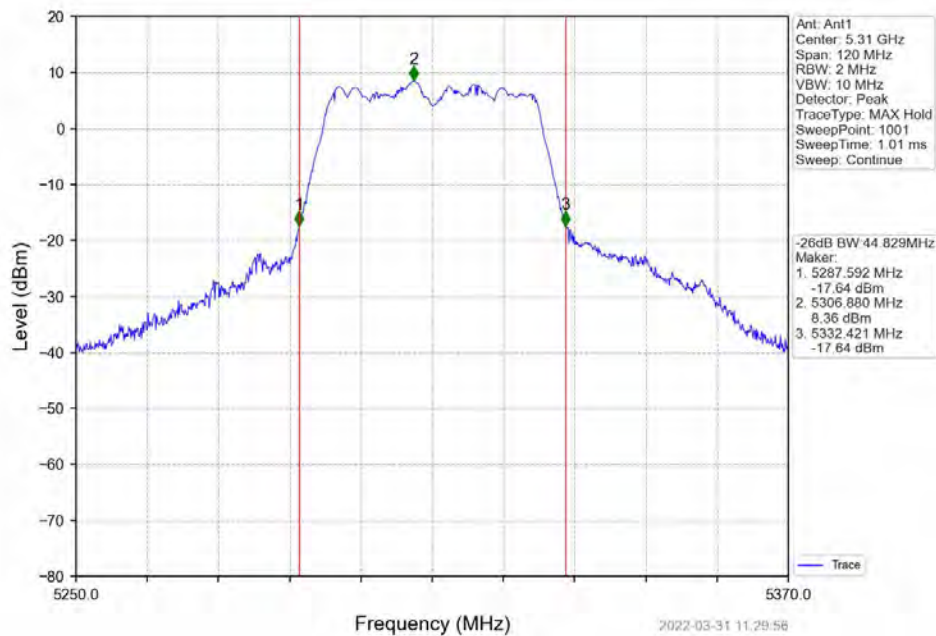
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



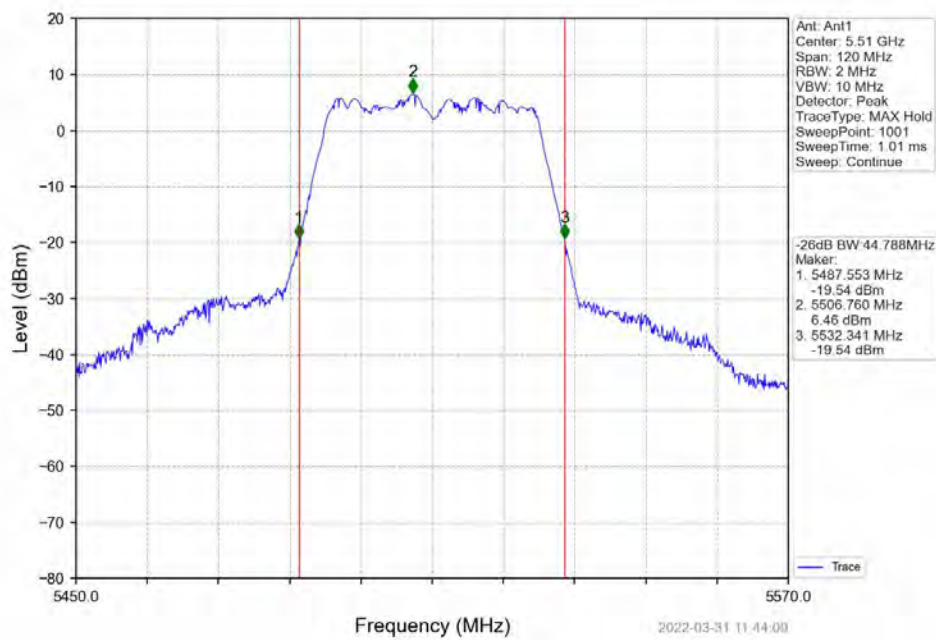
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



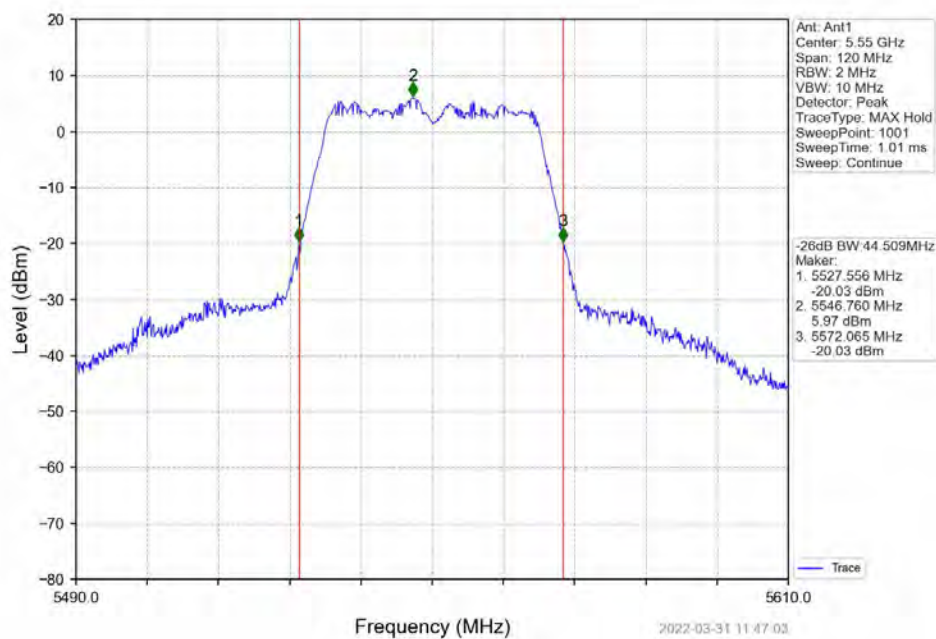
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



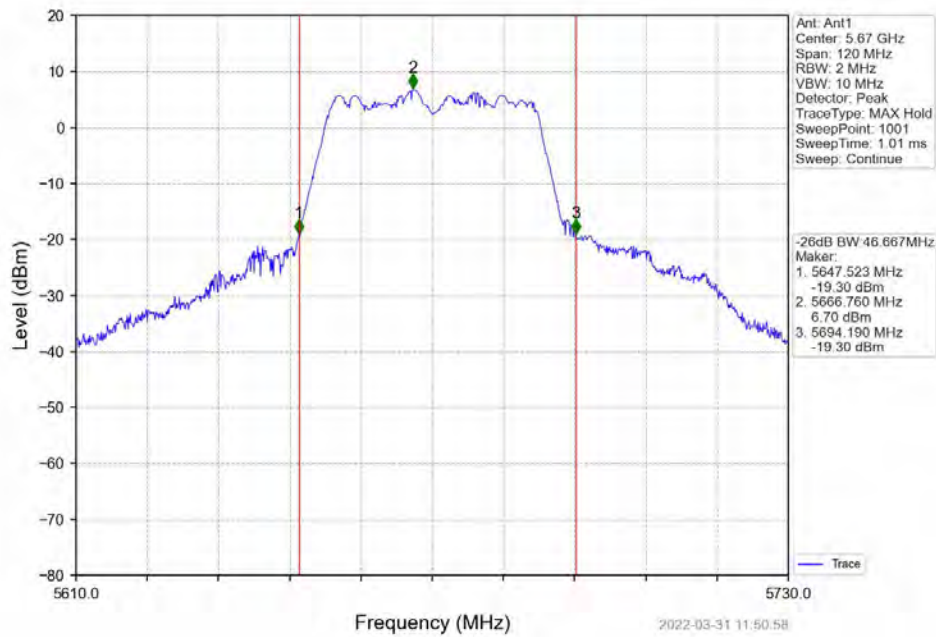
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



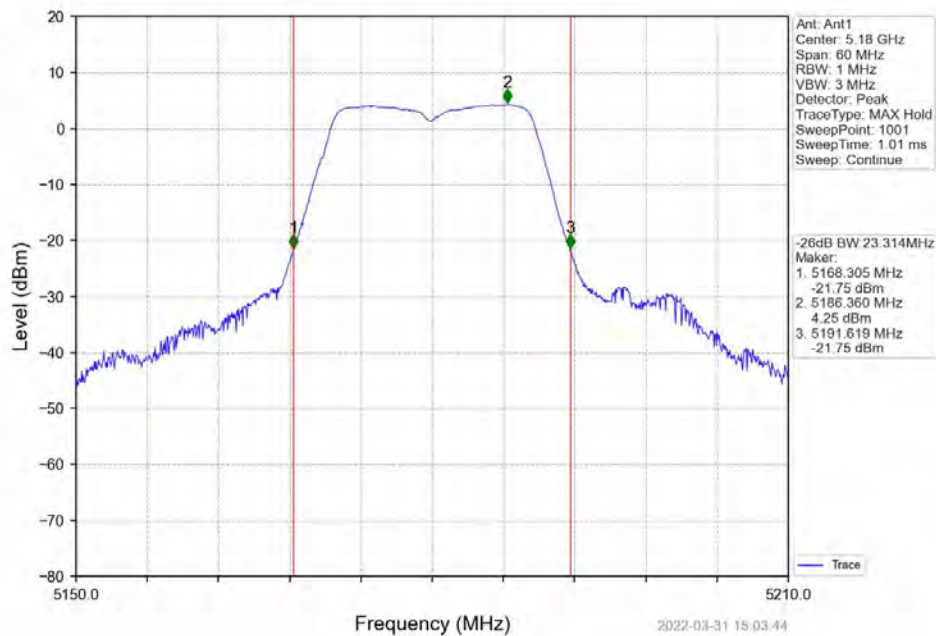
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



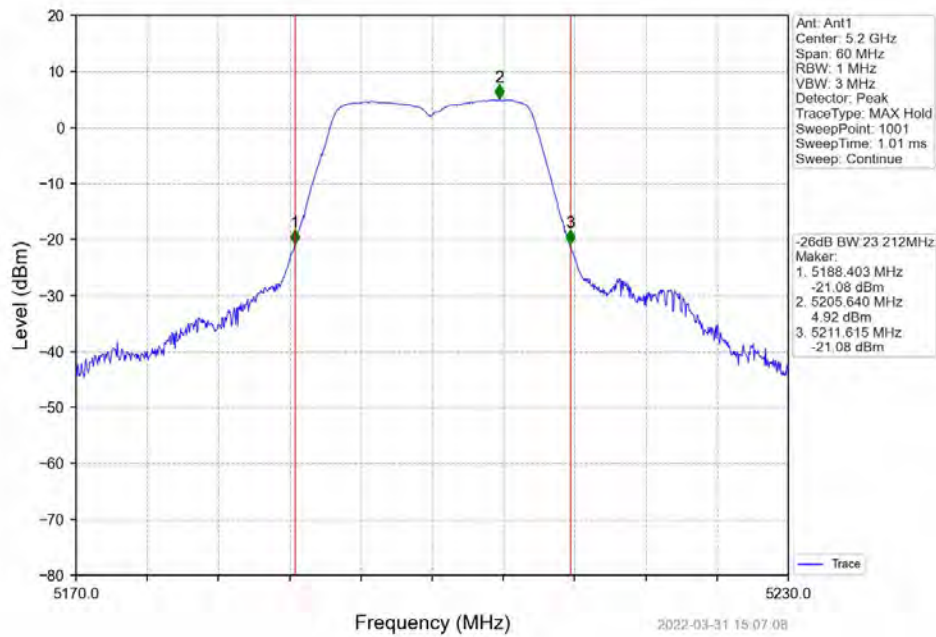
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



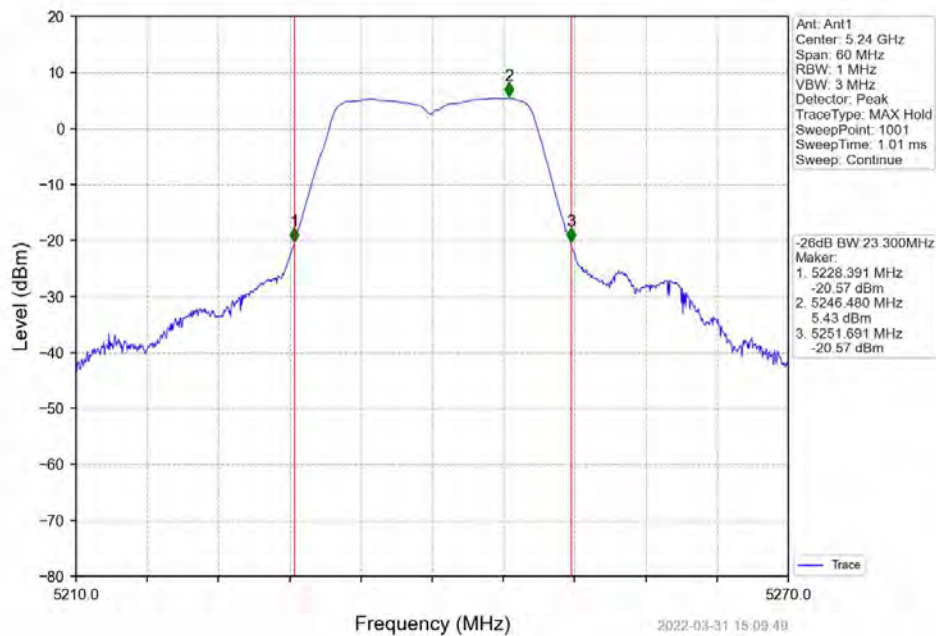
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



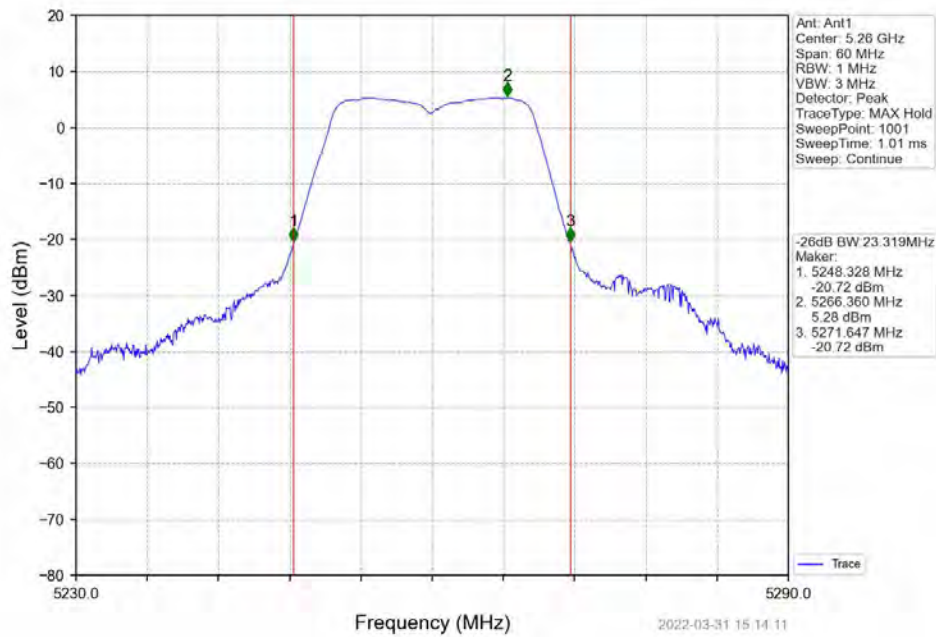
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



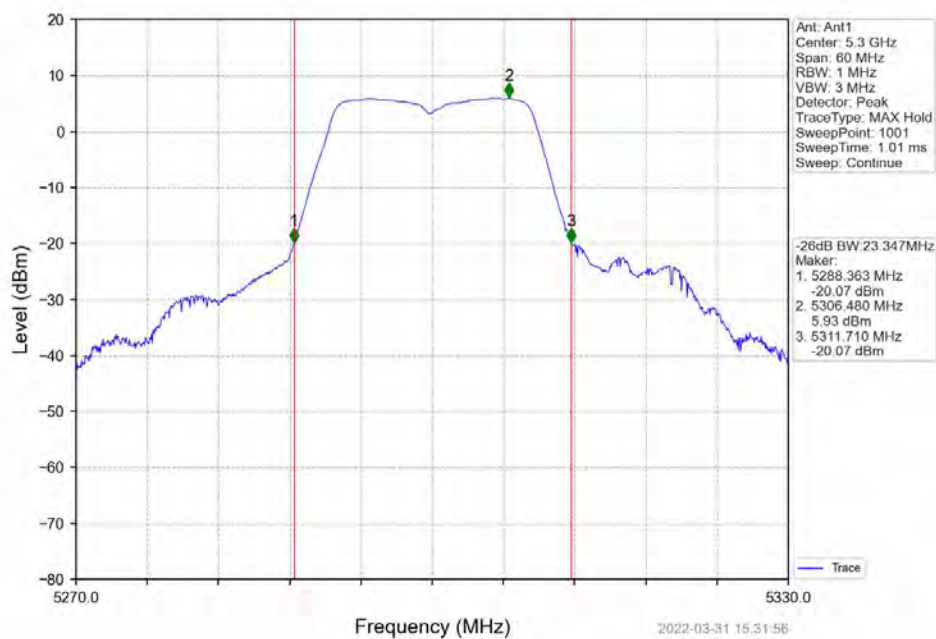
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



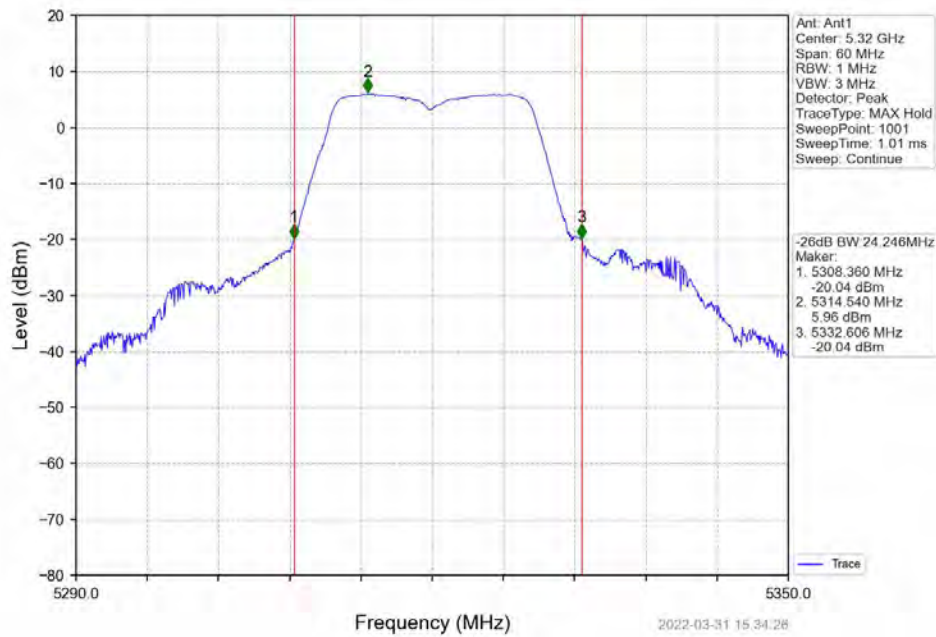
802.11ac(VHT20) LCH_5260MHz_Ant1_NTNV



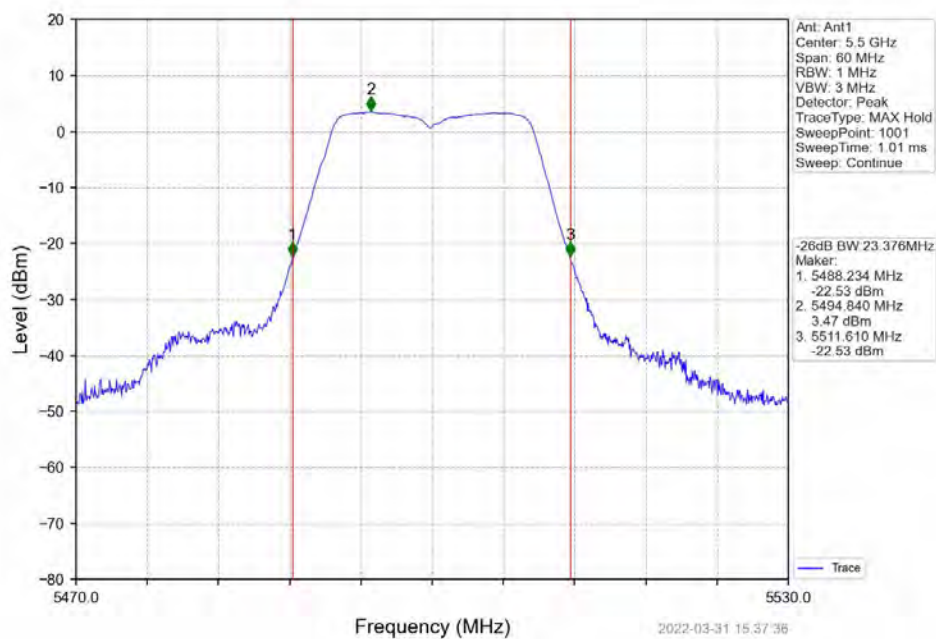
802.11ac(VHT20) MCH_5300MHz_Ant1_NTNV



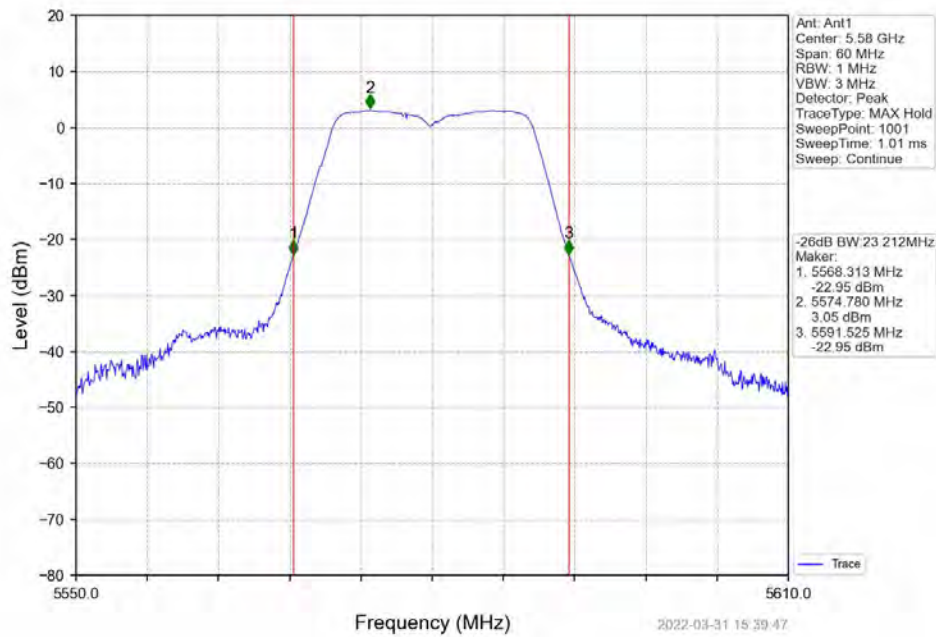
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



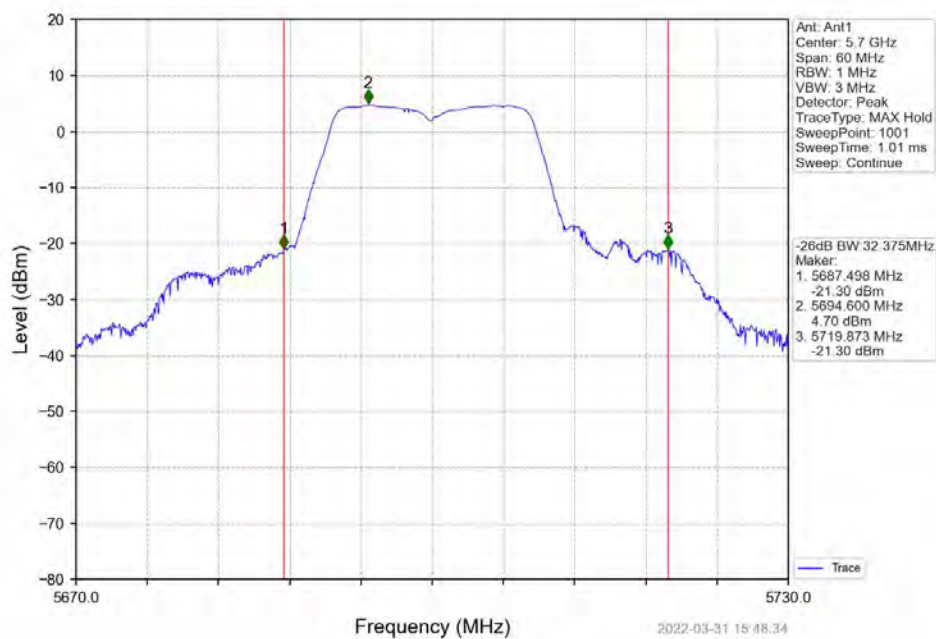
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



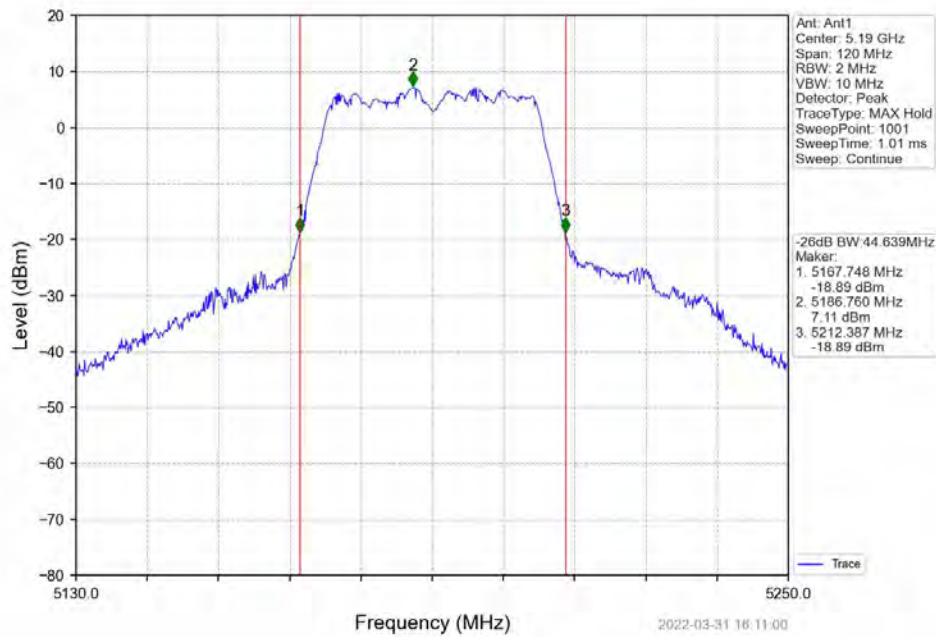
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



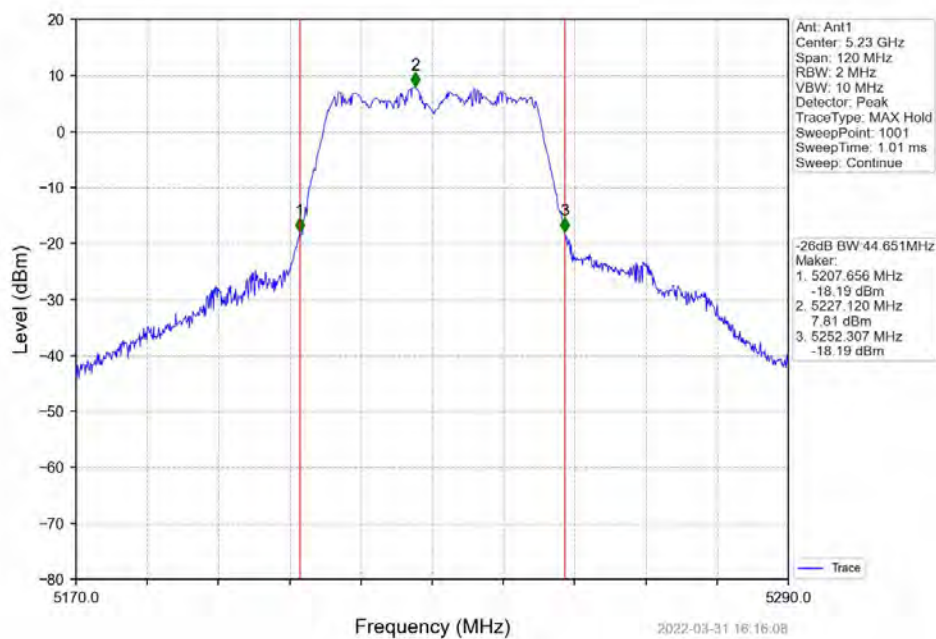
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



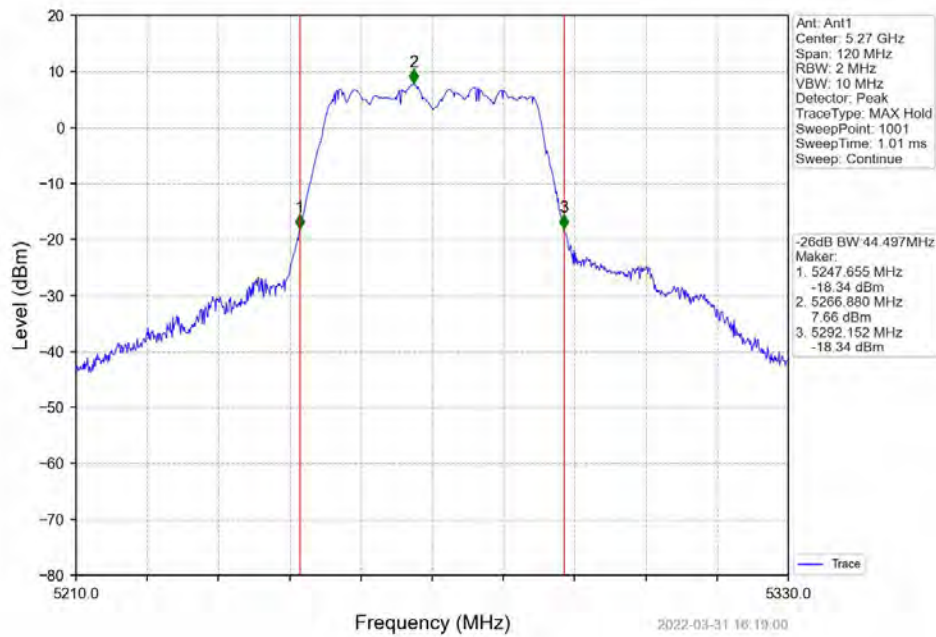
802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV



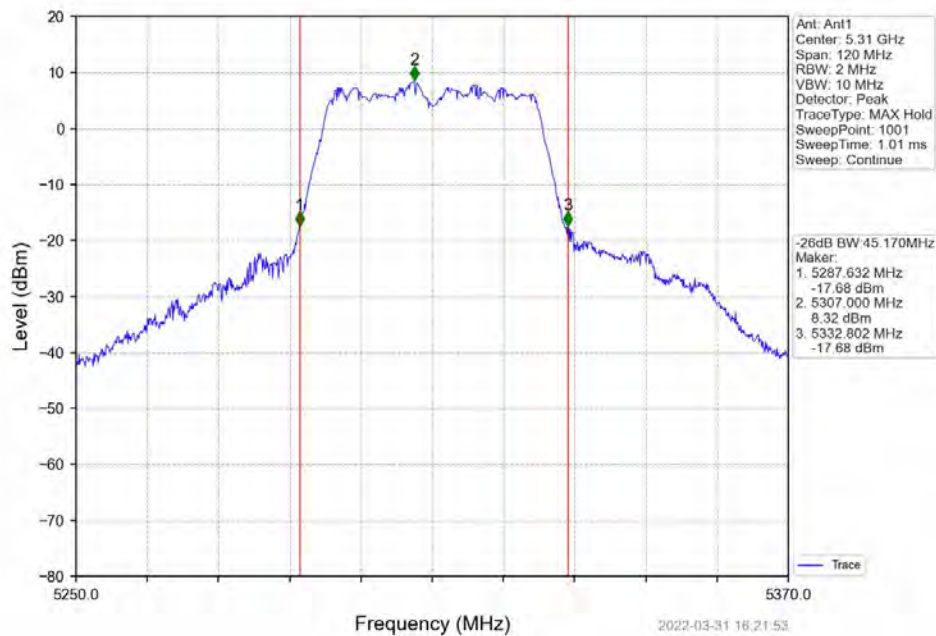
802.11ac(VHT40) HCH_5230MHz_Ant1_NTNV



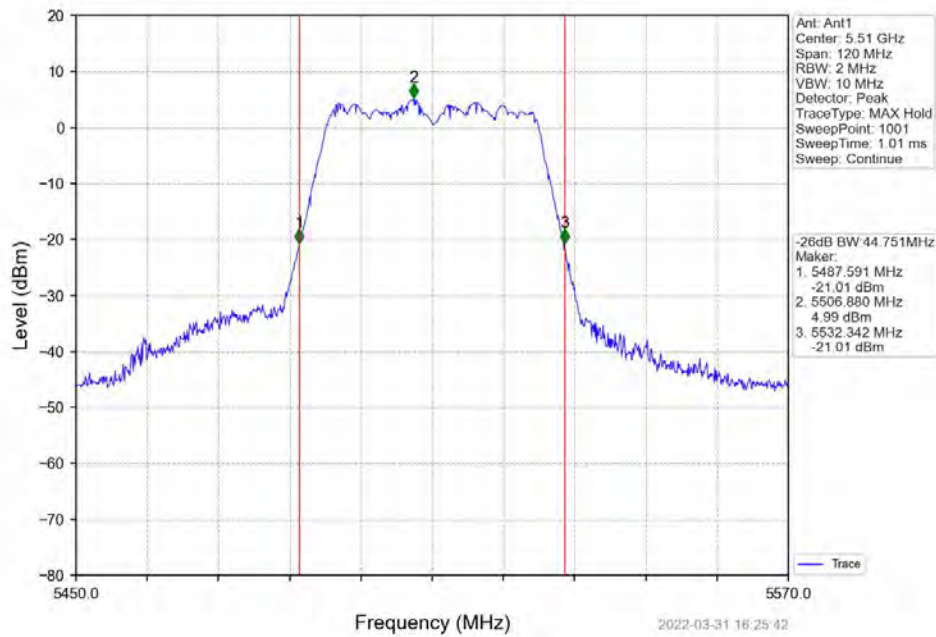
802.11ac(VHT40) LCH_5270MHz_Ant1_NTNV



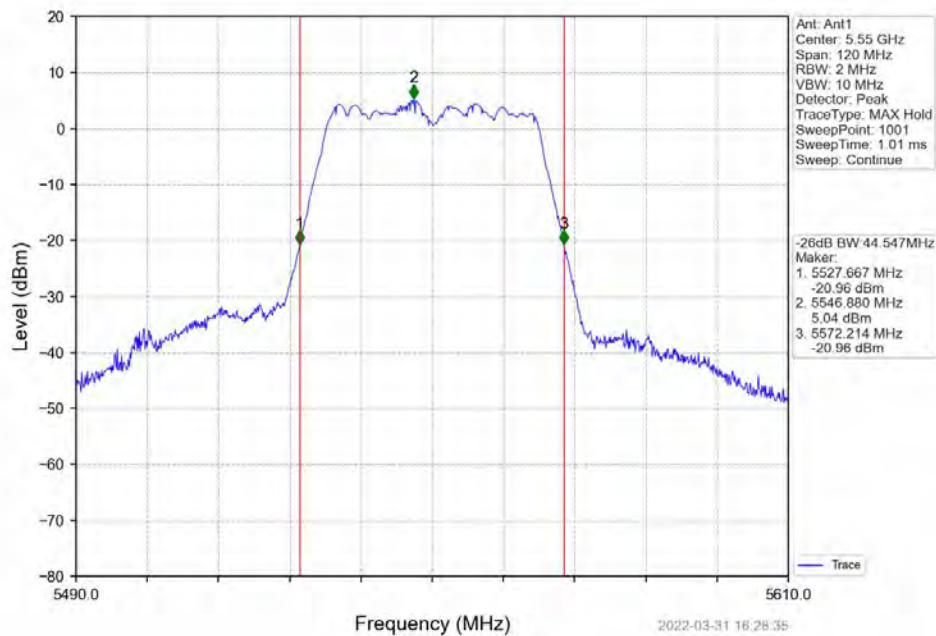
802.11ac(VHT40) HCH_5310MHz_Ant1_NTNV



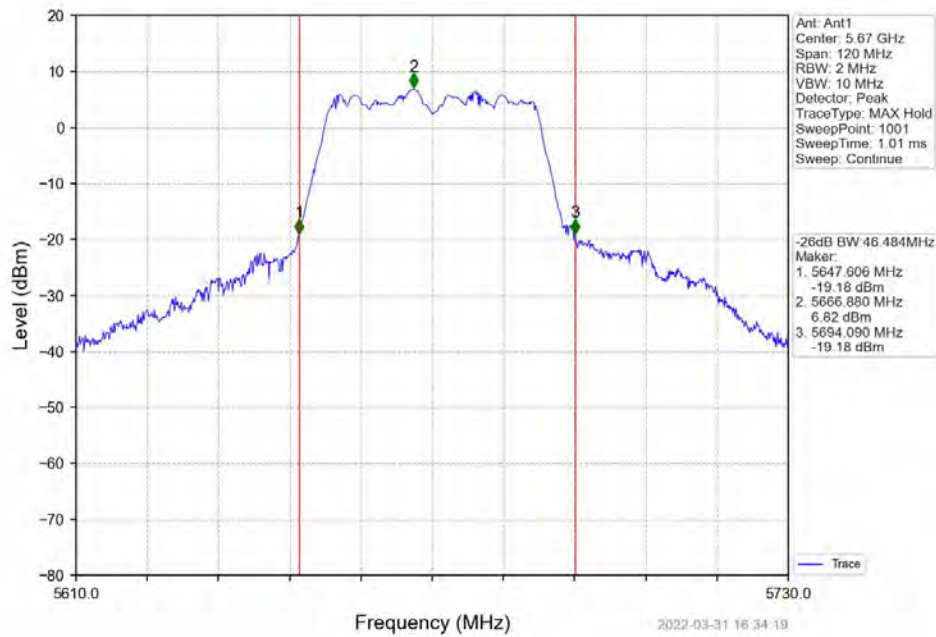
802.11ac(VHT40) LCH_5510MHz_Ant1_NTNV



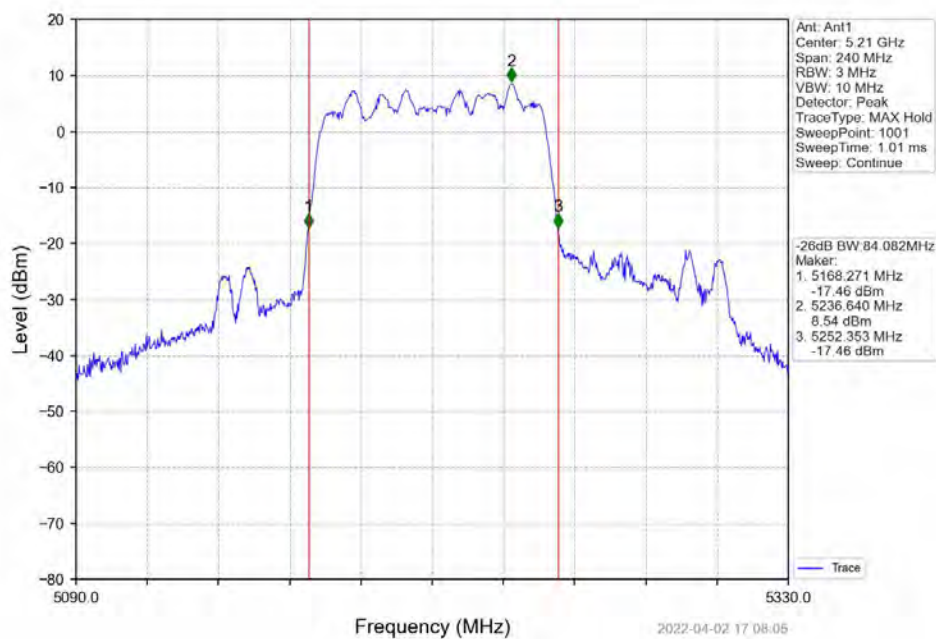
802.11ac(VHT40) MCH_5550MHz_Ant1_NTNV



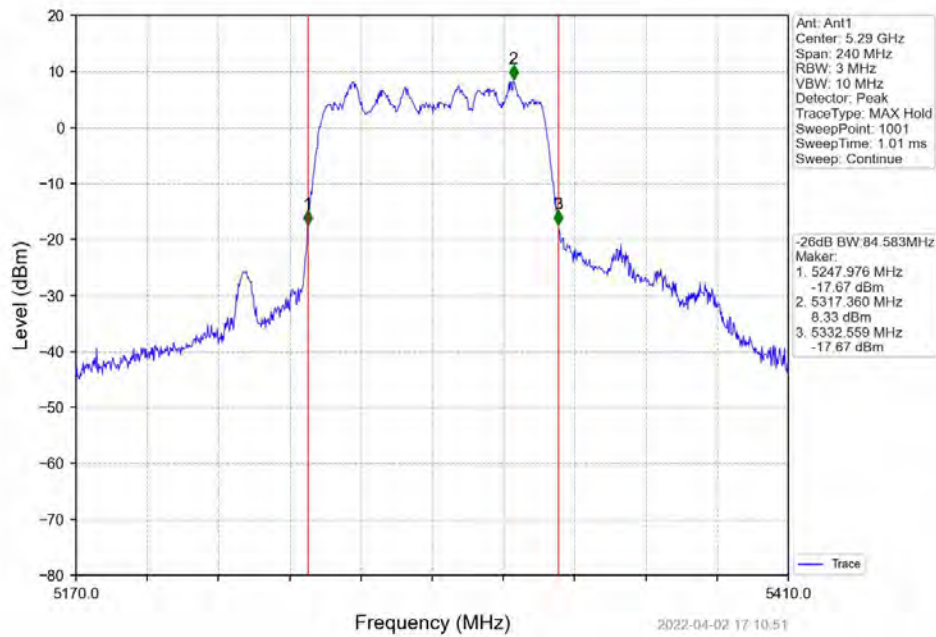
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



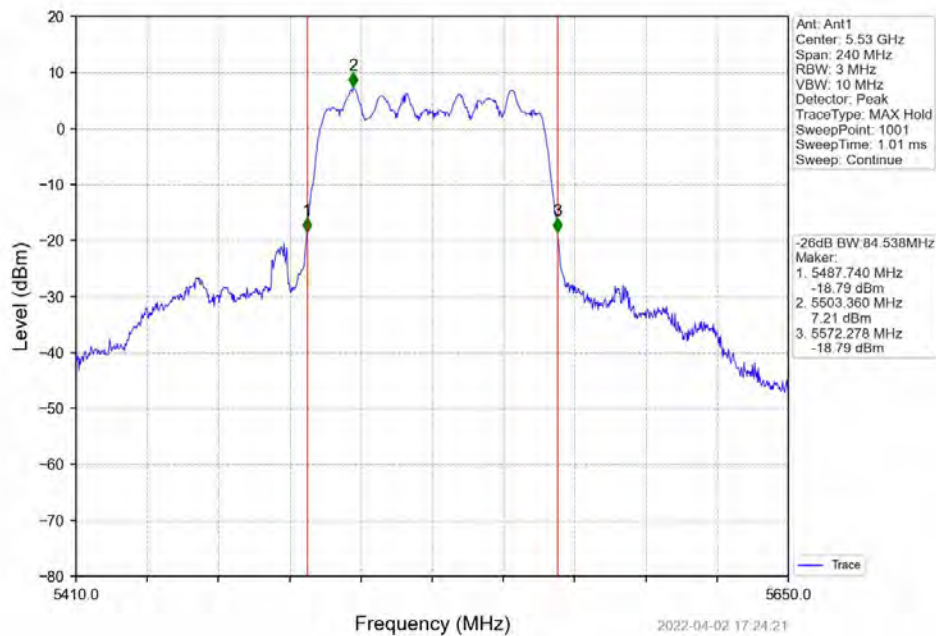
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

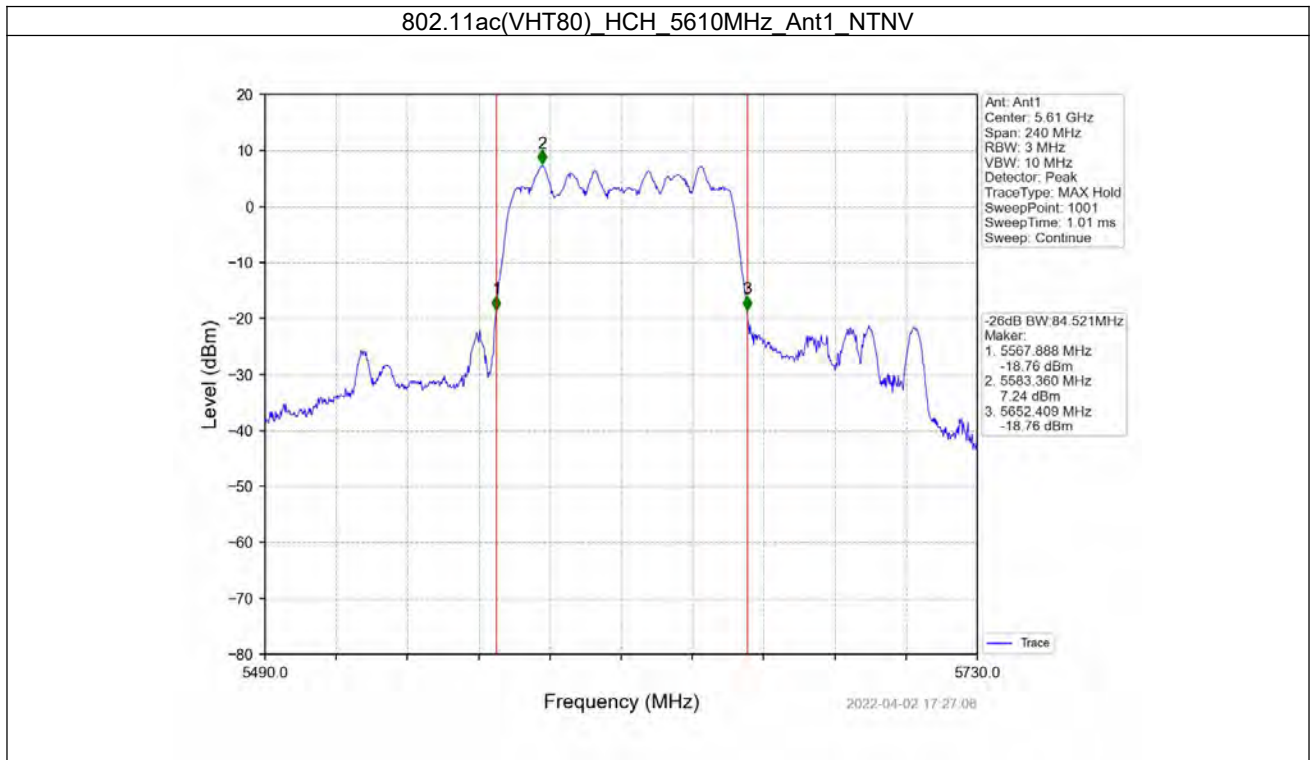


802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV





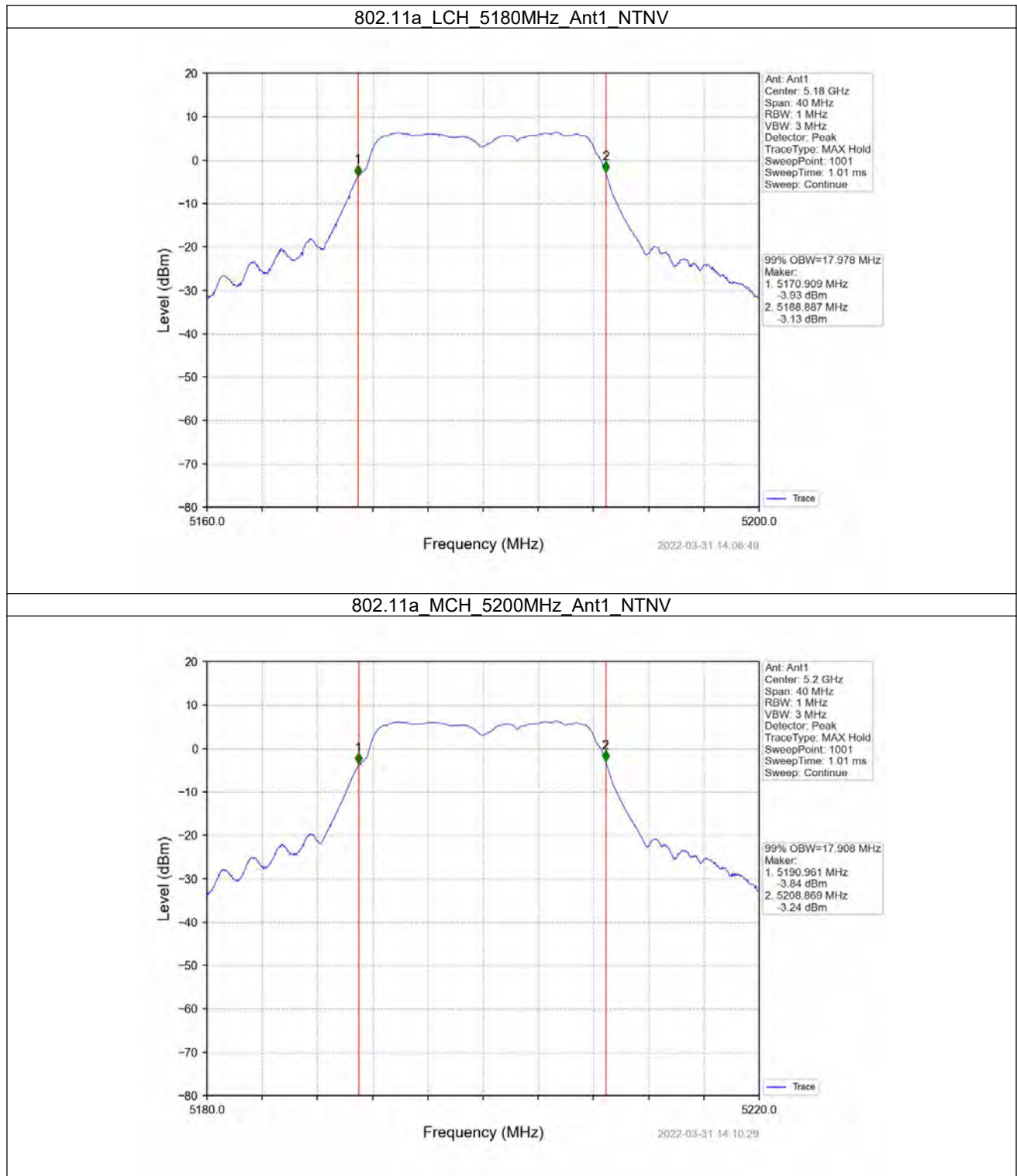
Appendix A2: 99% Occupied channel bandwidth

Test Result

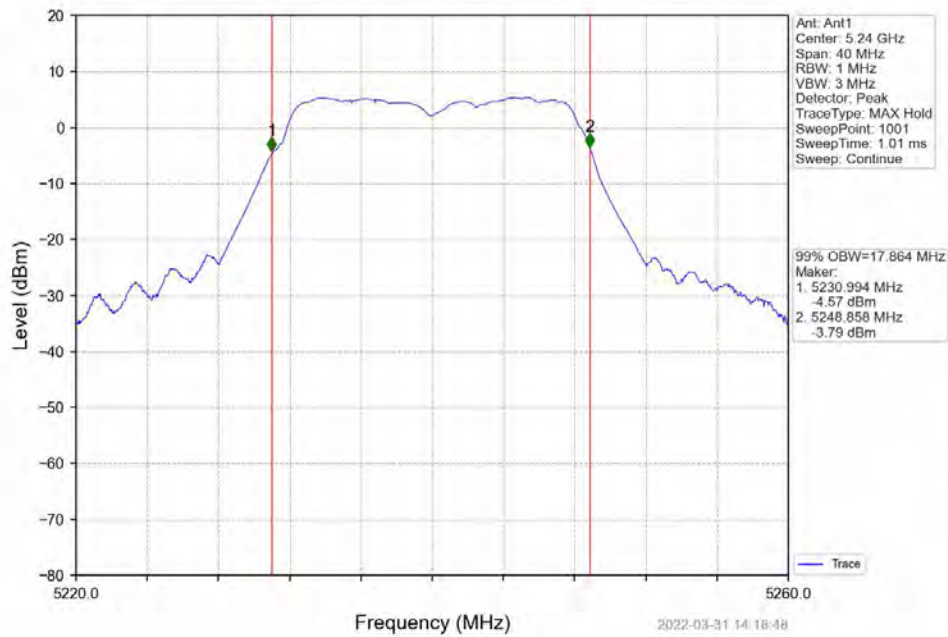
TestMode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.978	---	PASS
		5200	17.908	---	PASS
		5240	17.864	---	PASS
		5260	17.819	---	PASS
		5300	17.878	---	PASS
		5320	17.916	---	PASS
		5500	17.818	---	PASS
		5580	17.794	---	PASS
		5700	18.136	---	PASS
		5745	18.001	---	PASS
		5785	17.936	---	PASS
		5825	17.884	---	PASS
11N20SISO	Ant1	5180	18.629	---	PASS
		5200	18.611	---	PASS
		5240	18.634	---	PASS
		5260	18.598	---	PASS
		5300	18.680	---	PASS
		5320	18.734	---	PASS
		5500	18.601	---	PASS
		5580	18.553	---	PASS
		5700	19.263	---	PASS
		5745	18.920	---	PASS
		5785	18.995	---	PASS
		5825	18.788	---	PASS
11N40SISO	Ant1	5190	37.535	---	PASS
		5230	37.588	---	PASS
		5270	37.531	---	PASS
		5310	37.591	---	PASS
		5510	37.483	---	PASS
		5550	37.458	---	PASS
		5670	37.827	---	PASS
		5755	37.999	---	PASS
		5795	37.820	---	PASS
11AC20SISO	Ant1	5180	18.631	---	PASS
		5200	18.608	---	PASS
		5240	18.632	---	PASS
		5260	18.607	---	PASS
		5300	18.727	---	PASS
		5320	18.715	---	PASS
		5500	18.591	---	PASS
		5580	18.556	---	PASS
		5700	18.964	---	PASS
		5745	18.826	---	PASS
		5785	18.864	---	PASS
		5825	18.772	---	PASS

11AC40SISO	Ant1	5190	37.539	---	PASS
		5230	37.552	---	PASS
		5270	37.465	---	PASS
		5310	37.582	---	PASS
		5510	37.436	---	PASS
		5550	37.460	---	PASS
		5670	37.715	---	PASS
		5755	37.827	---	PASS
		5795	37.555	---	PASS
11AC80SISO	Ant1	5210	76.074	---	PASS
		5290	76.132	---	PASS
		5530	76.155	---	PASS
		5610	75.959	---	PASS
		5775	76.376	---	PASS

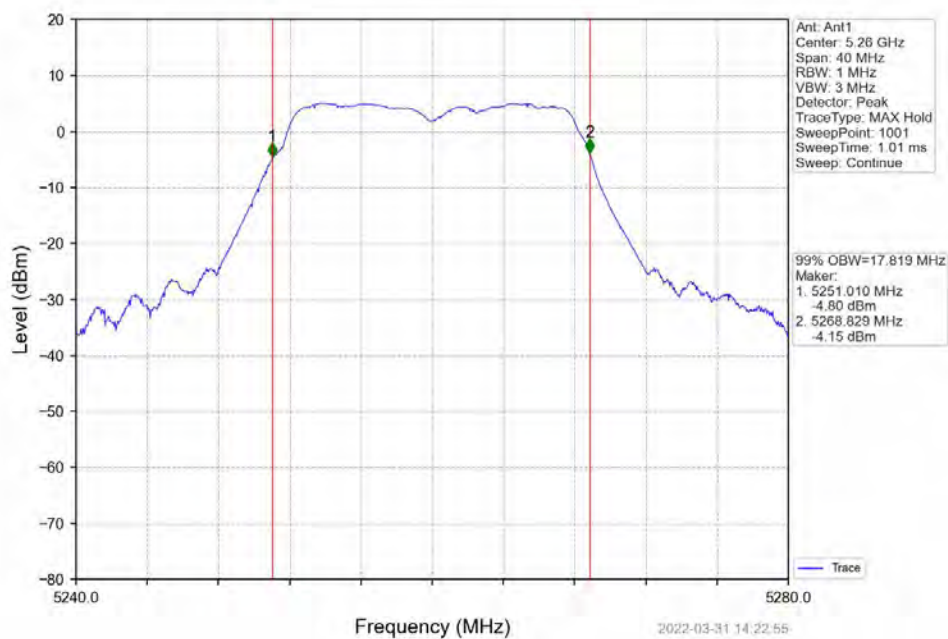
Test Graphs



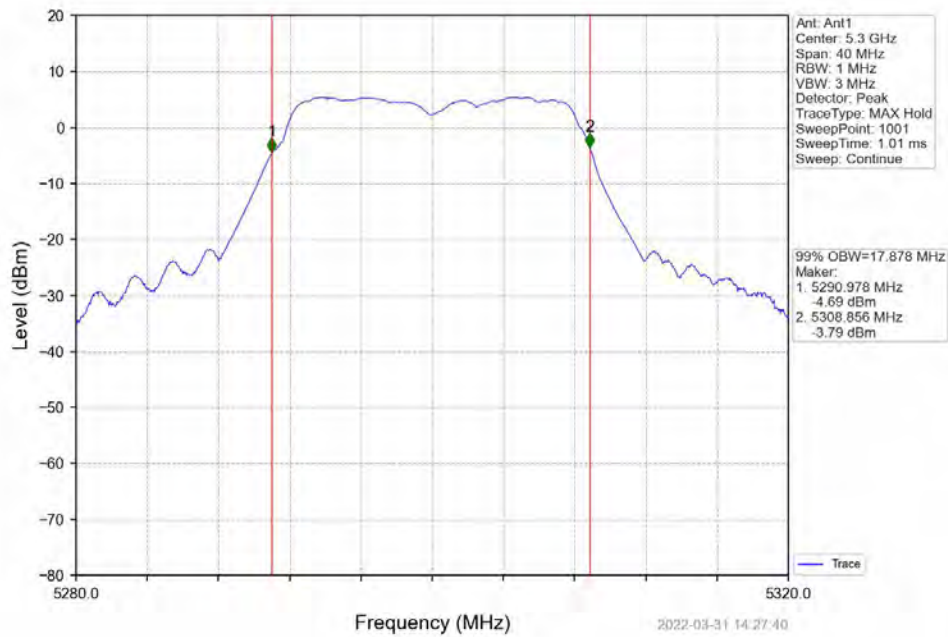
802.11a_HCH_5240MHz_Ant1_NTNV



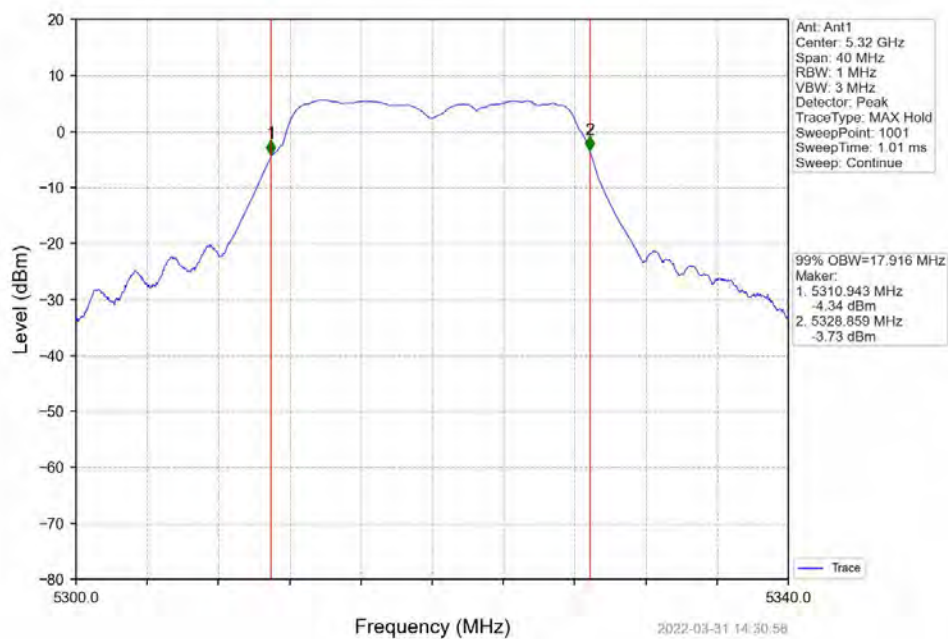
802.11a_LCH_5260MHz_Ant1_NTNV



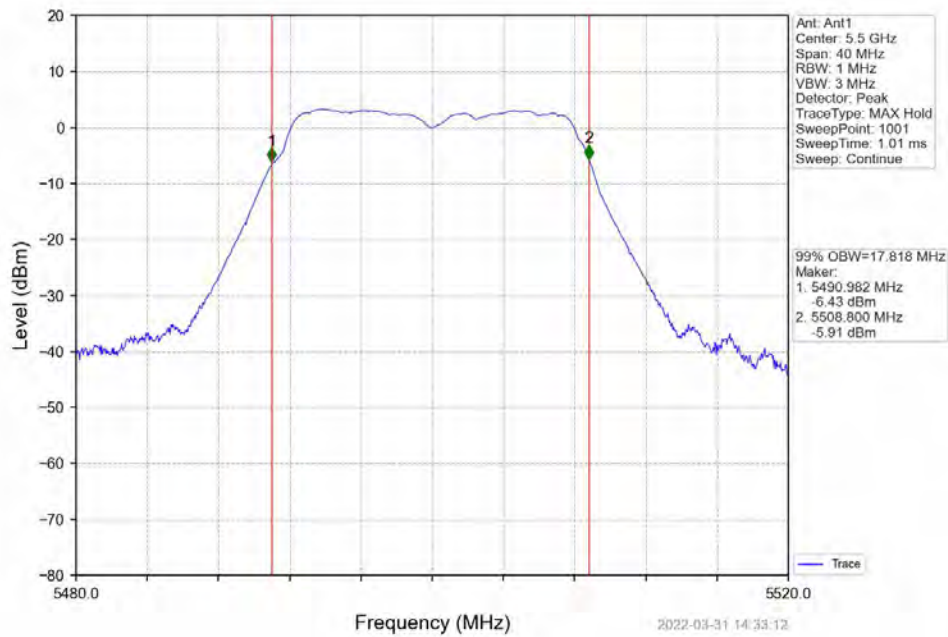
802.11a_MCH_5300MHz_Ant1_NTNV



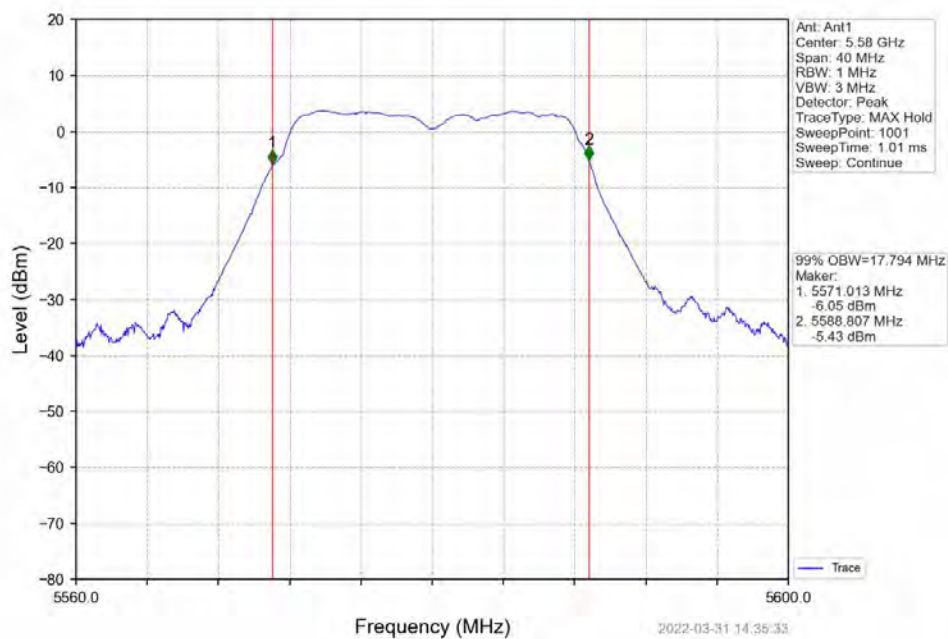
802.11a_HCH_5320MHz_Ant1_NTNV



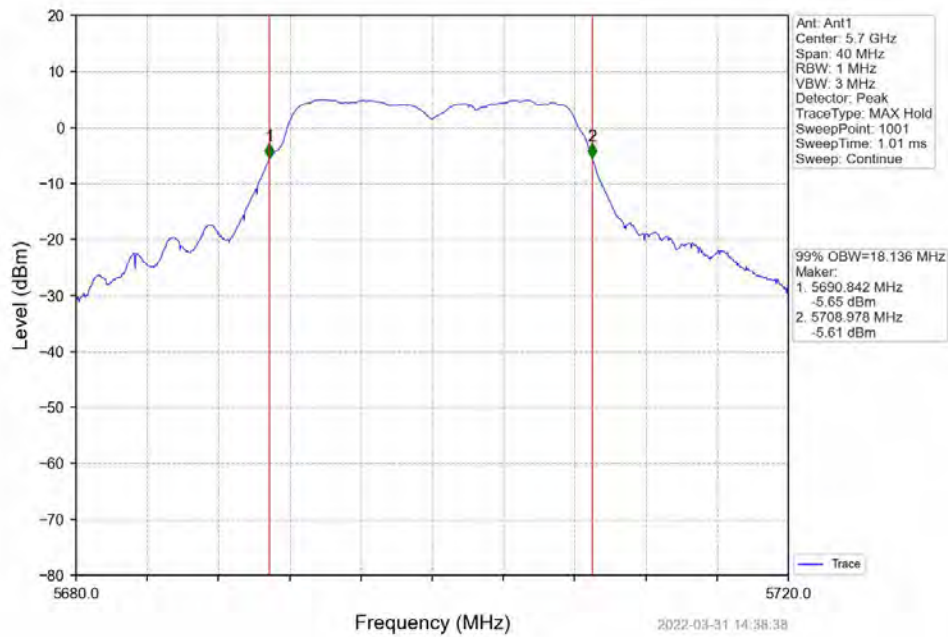
802.11a_LCH_5500MHz_Ant1_NTNV



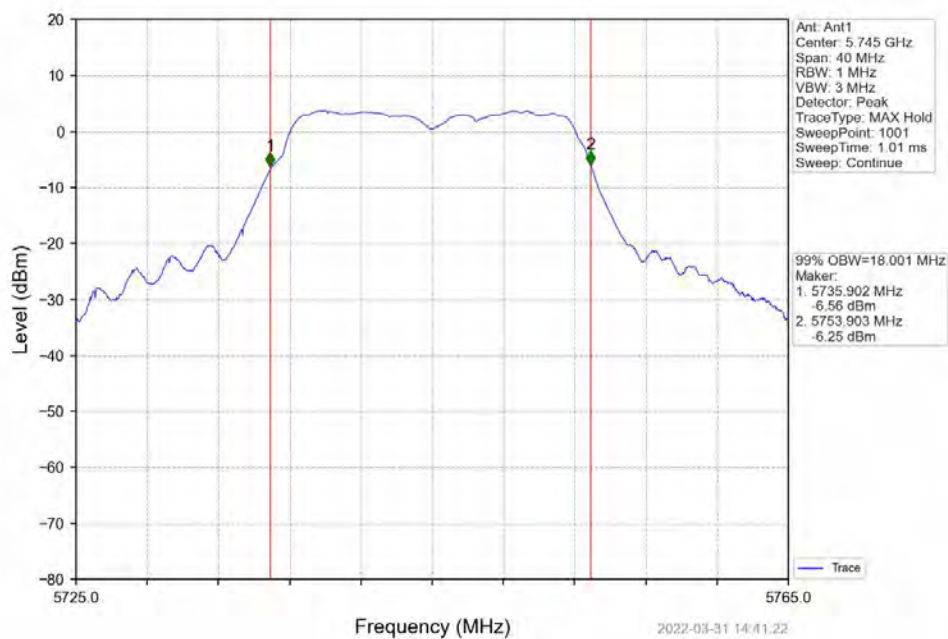
802.11a_MCH_5580MHz_Ant1_NTNV



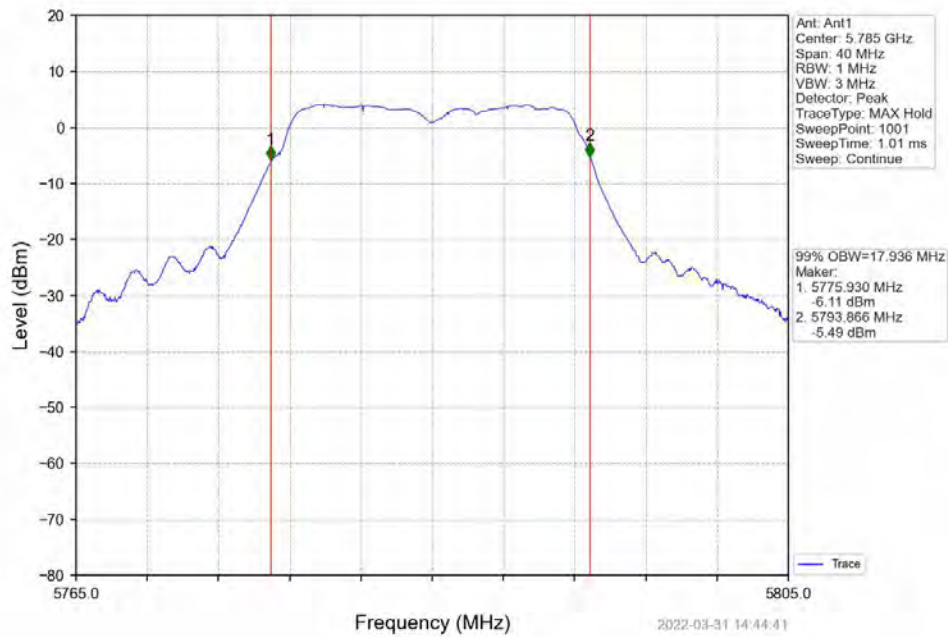
802.11a_HCH_5700MHz_Ant1_NTNV



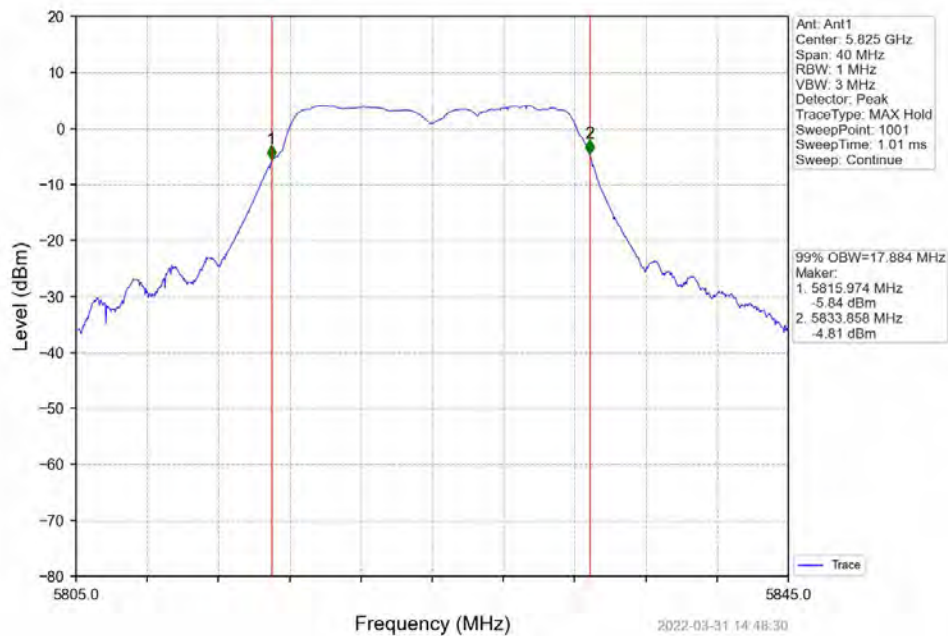
802.11a_LCH_5745MHz_Ant1_NTNV



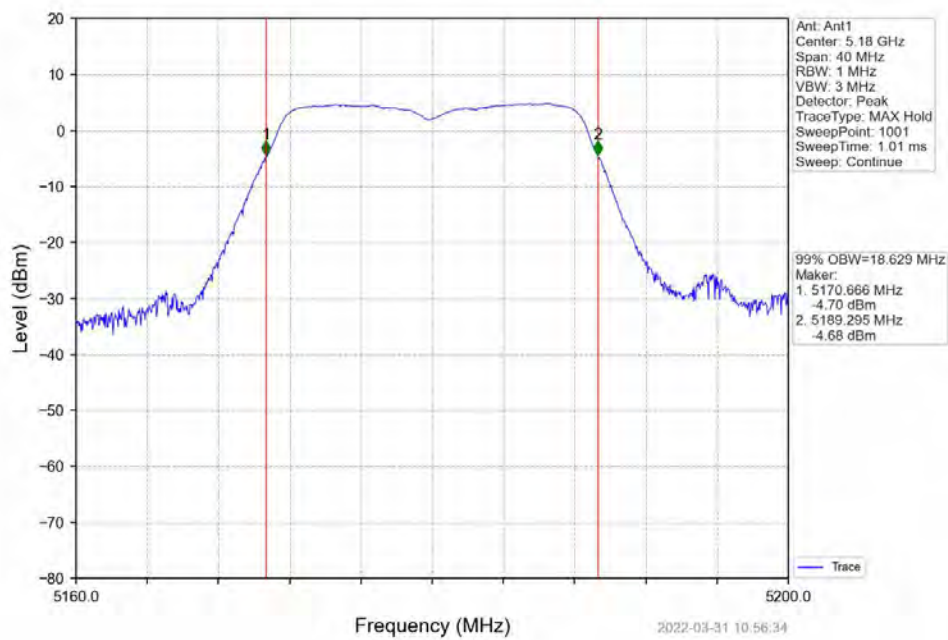
802.11a_MCH_5785MHz_Ant1_NTNV



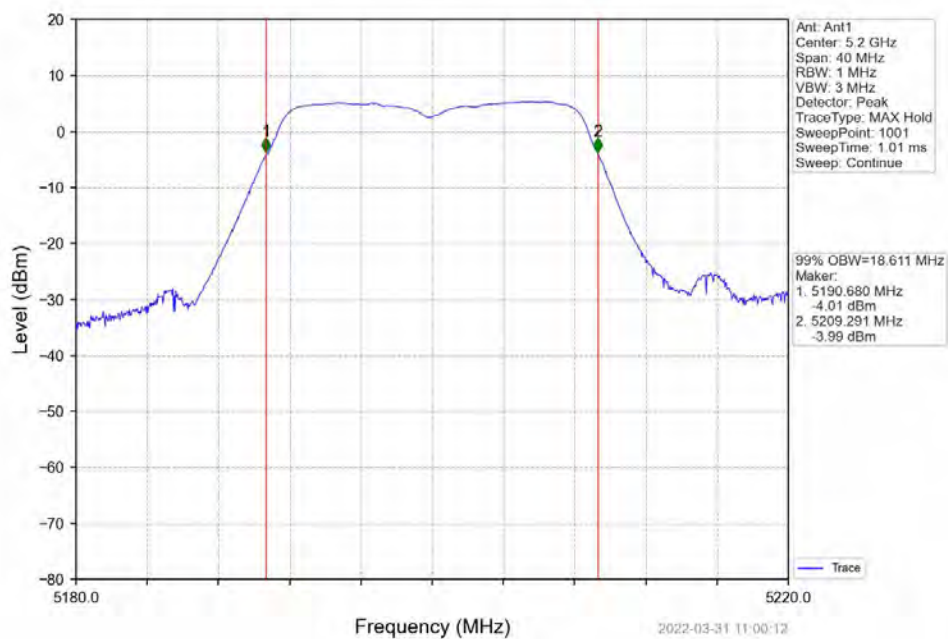
802.11a_HCH_5825MHz_Ant1_NTNV



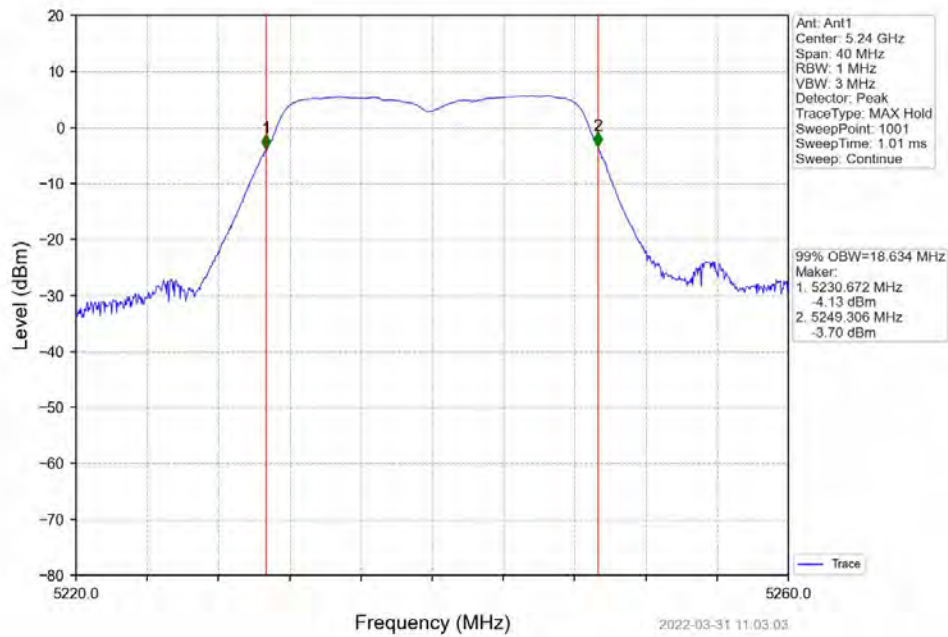
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



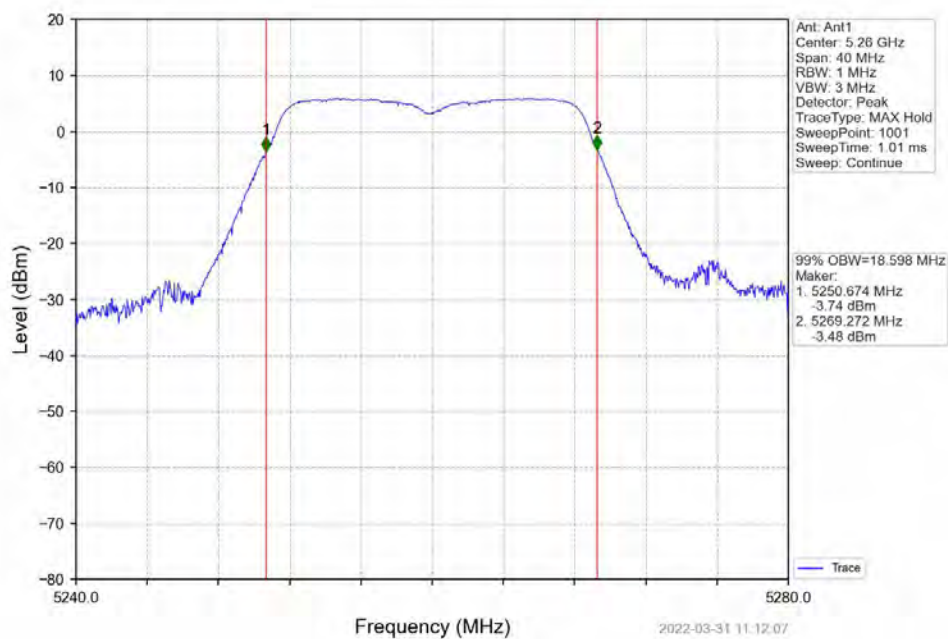
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



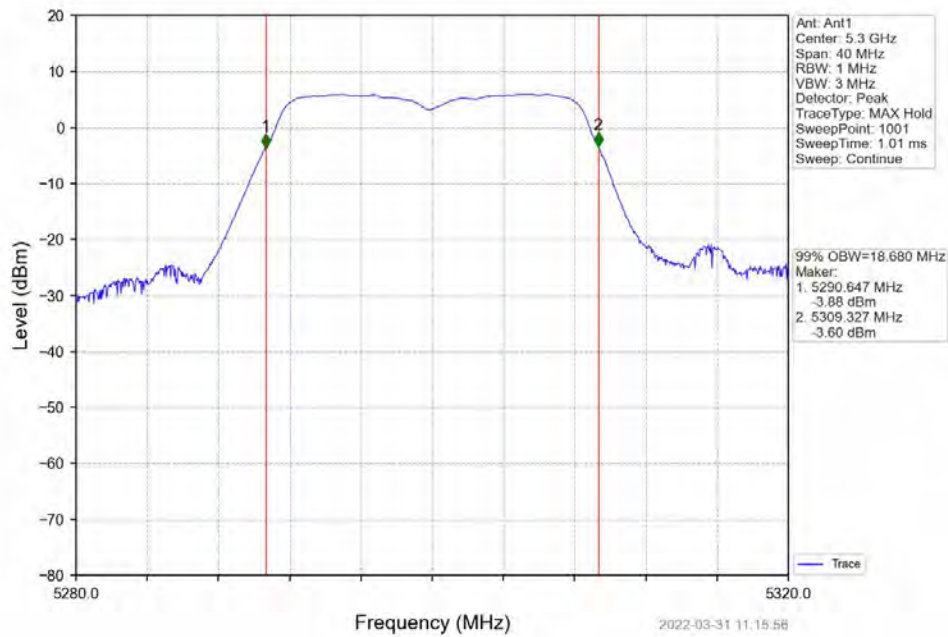
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



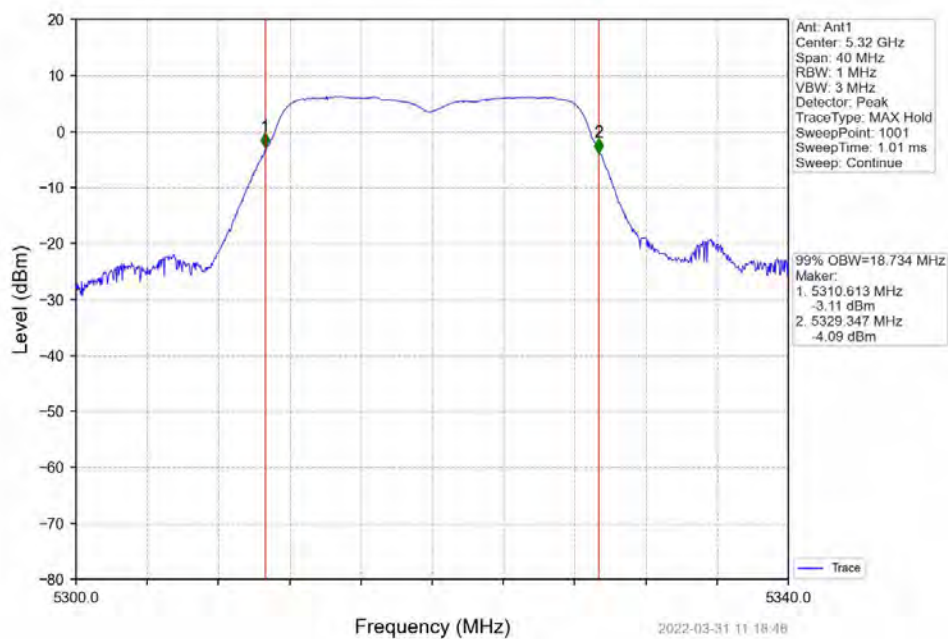
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



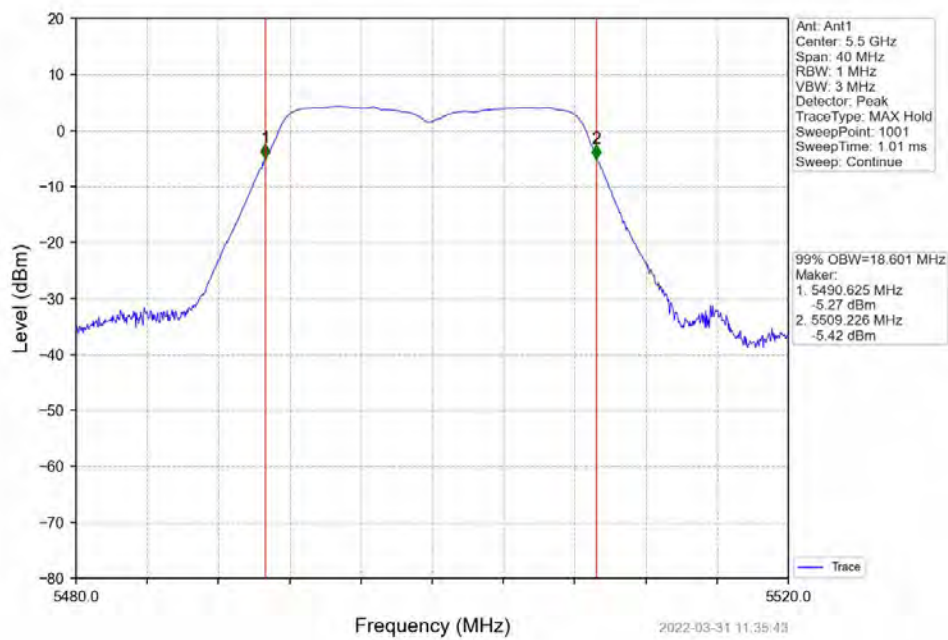
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



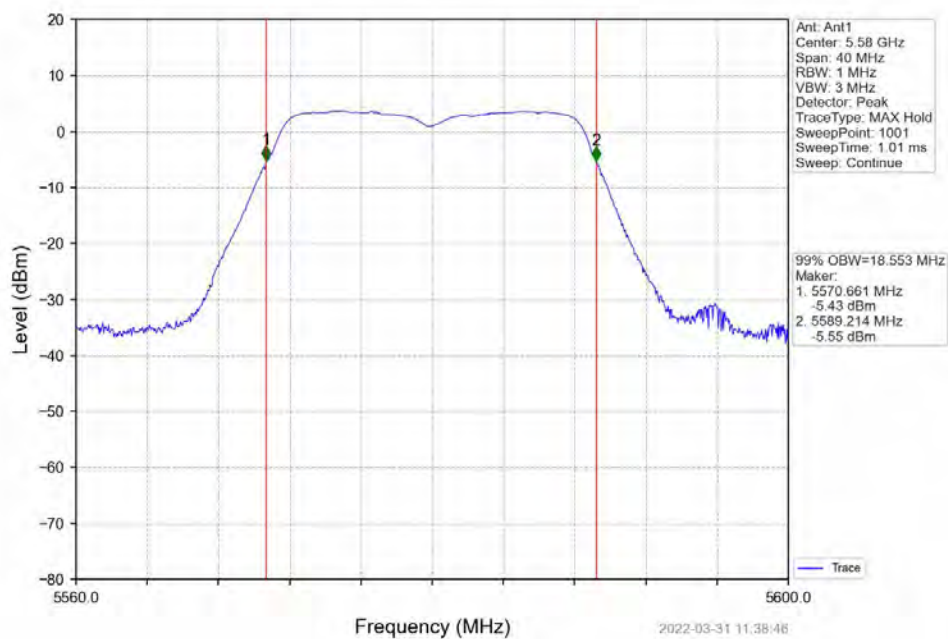
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



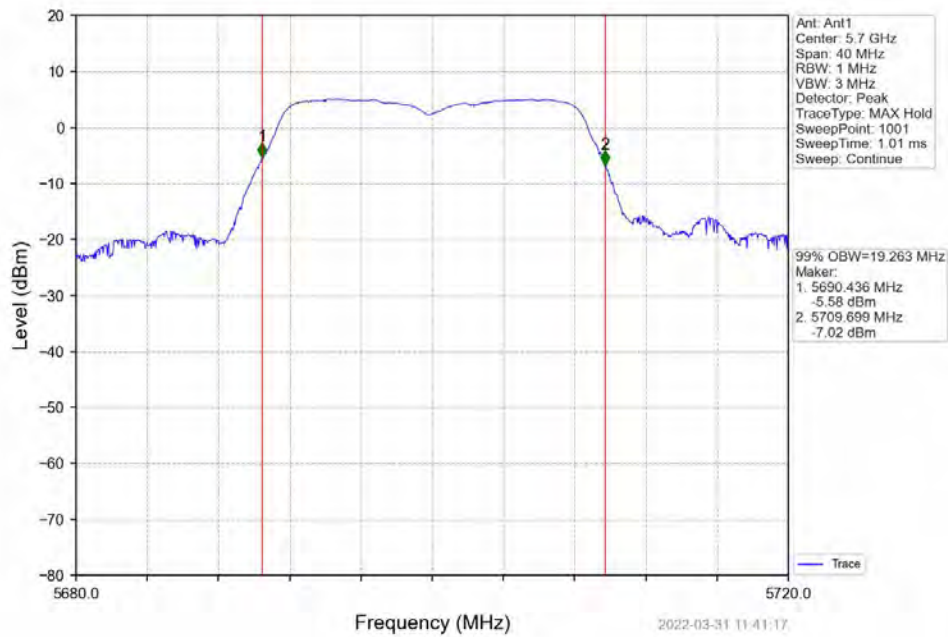
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



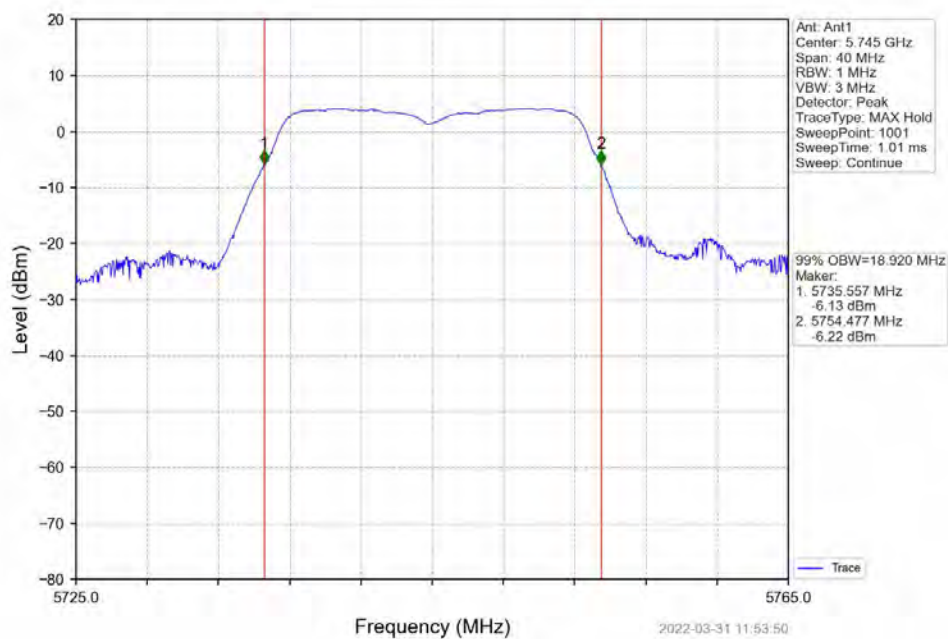
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



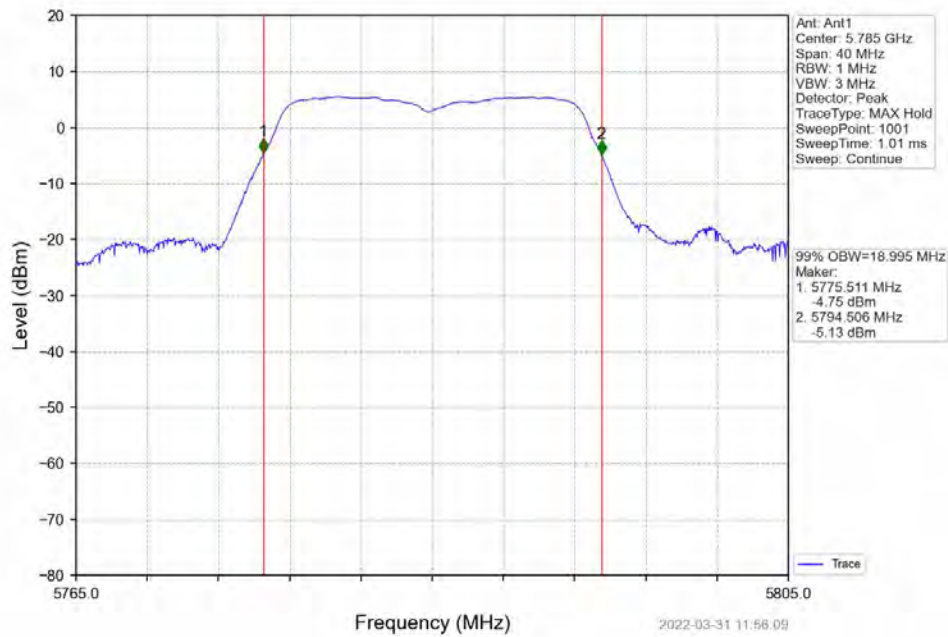
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



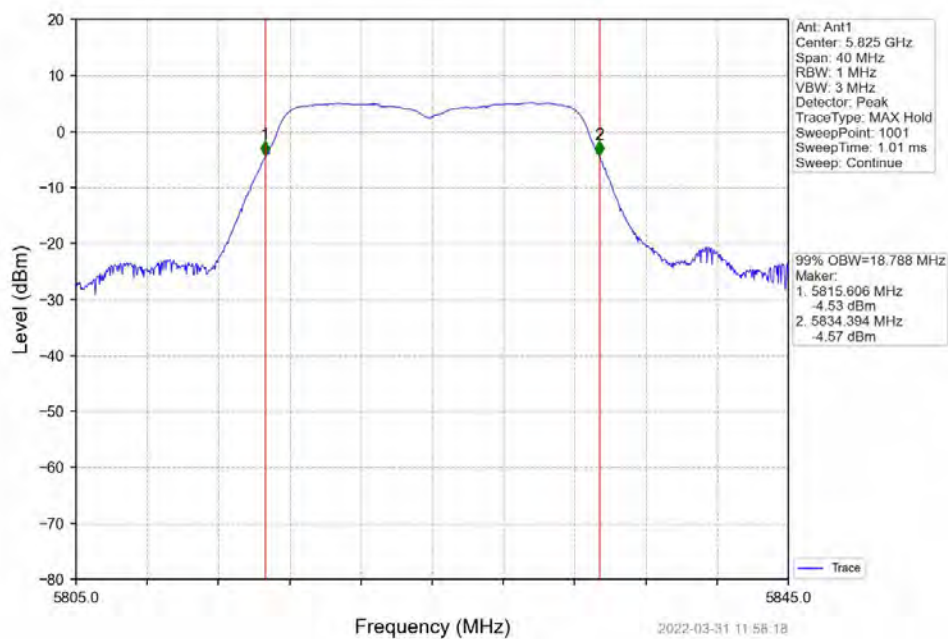
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



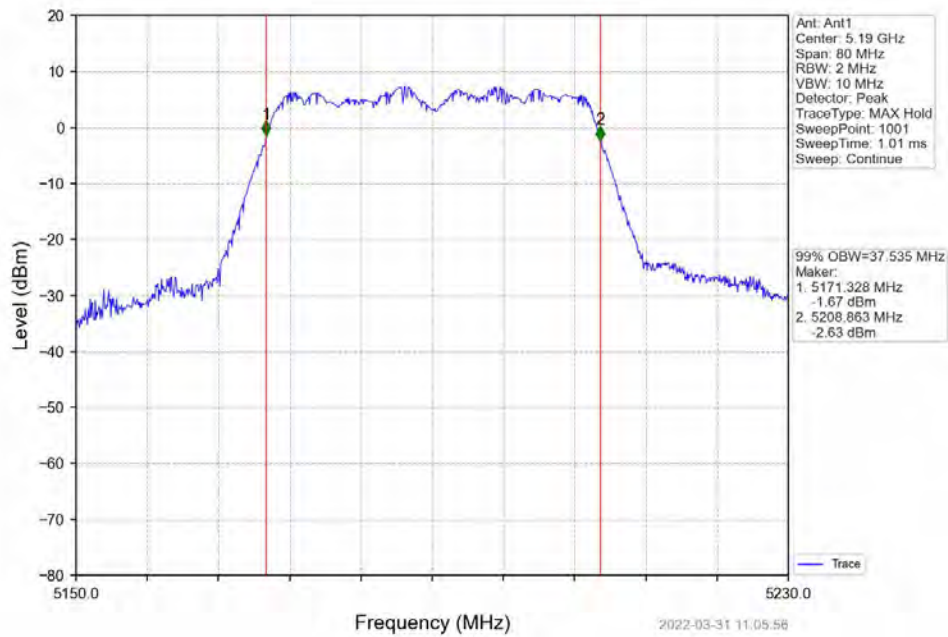
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



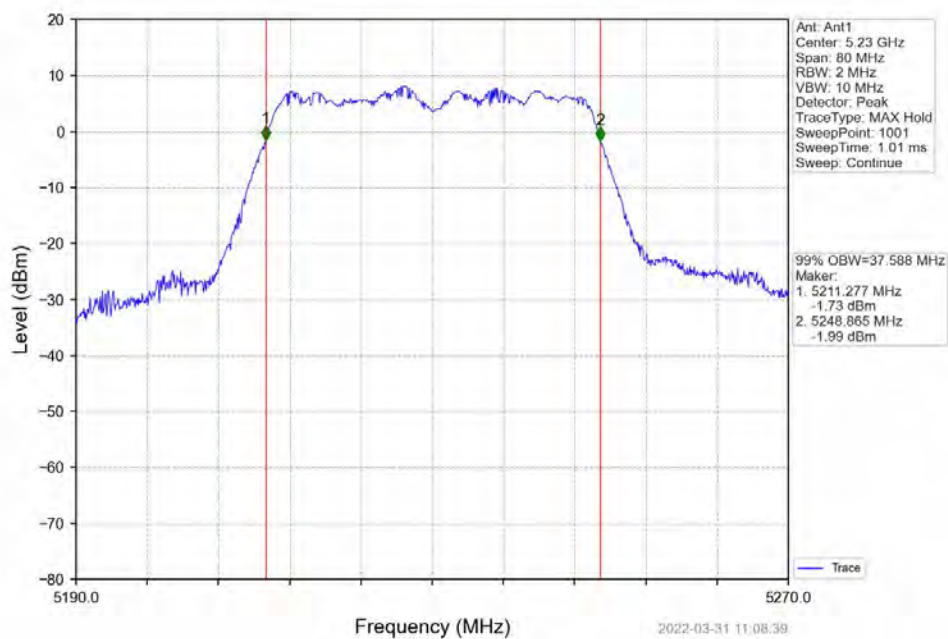
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



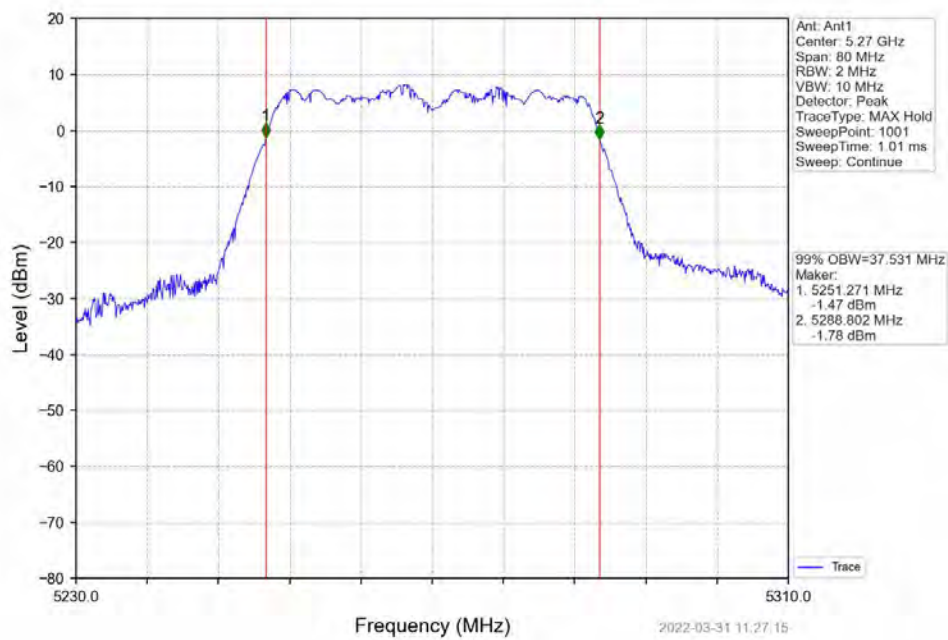
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



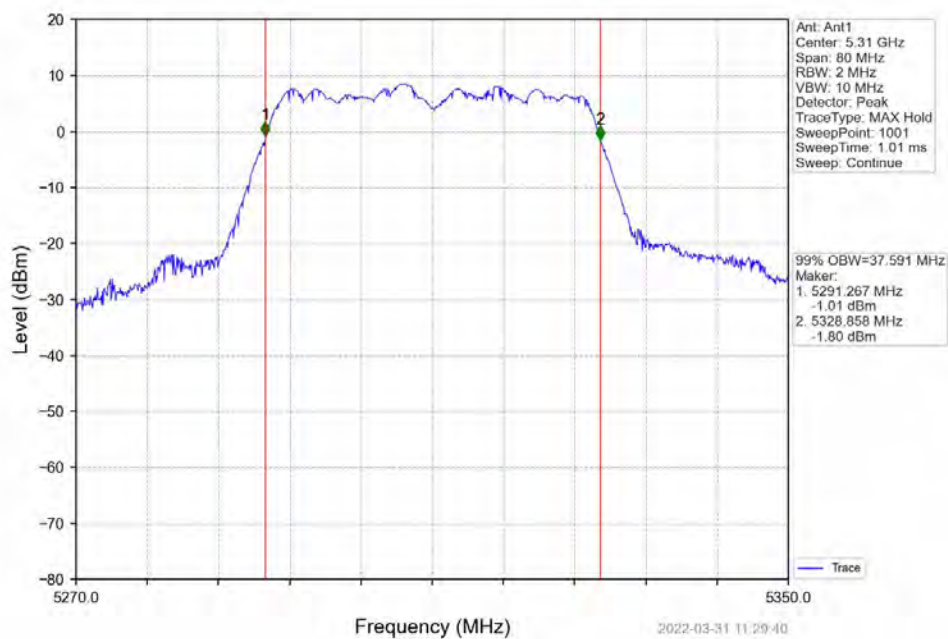
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



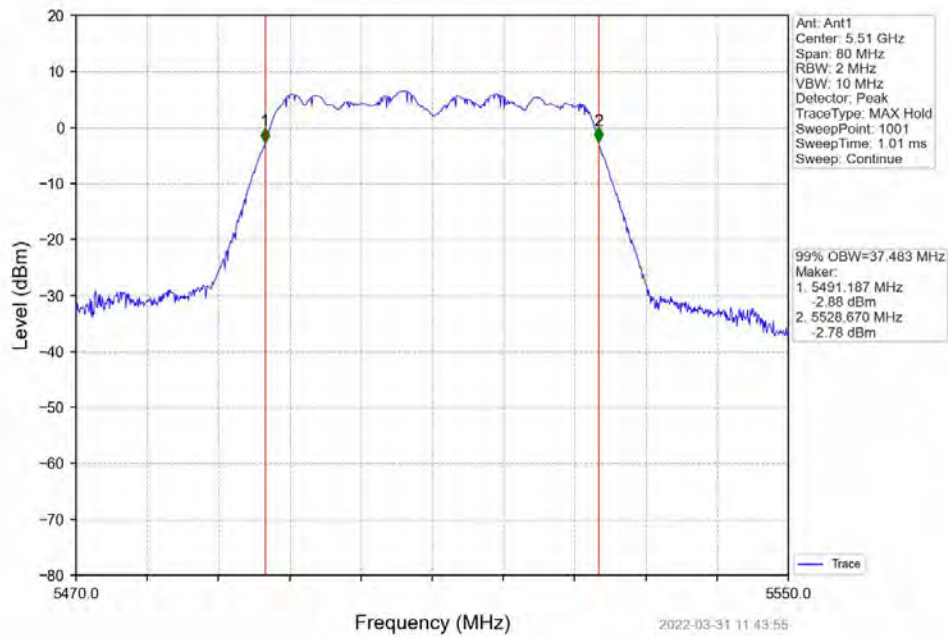
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



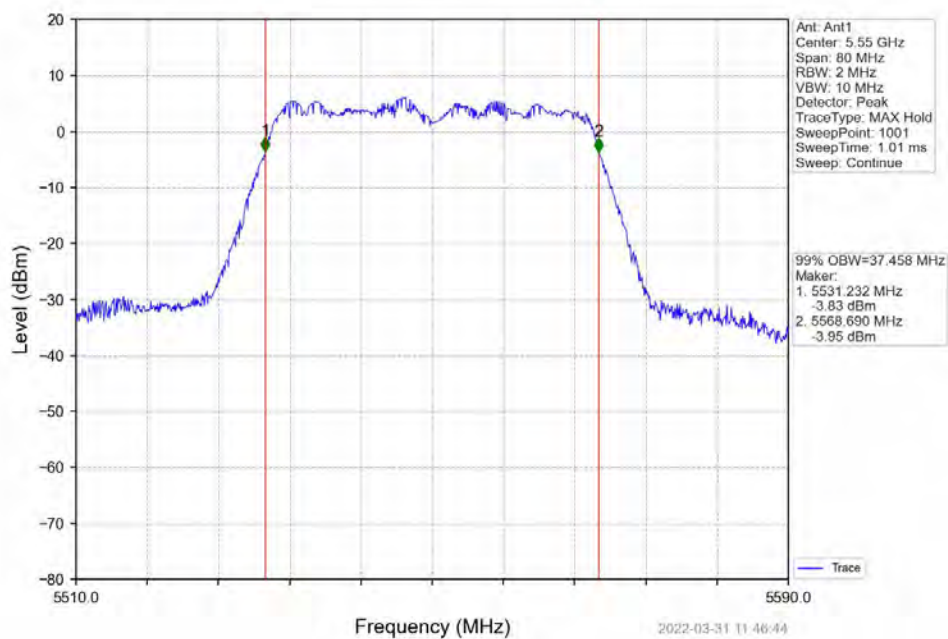
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



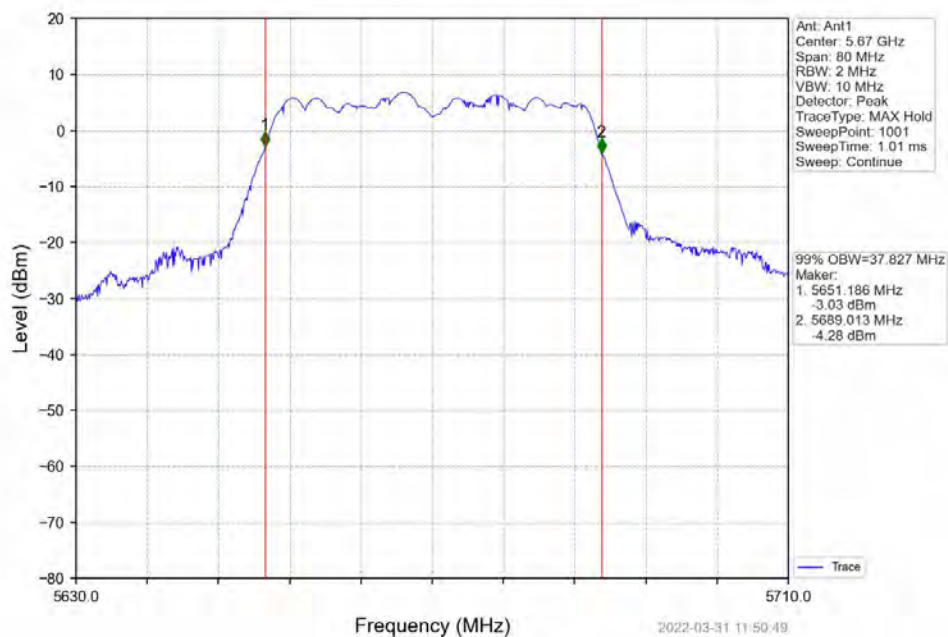
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



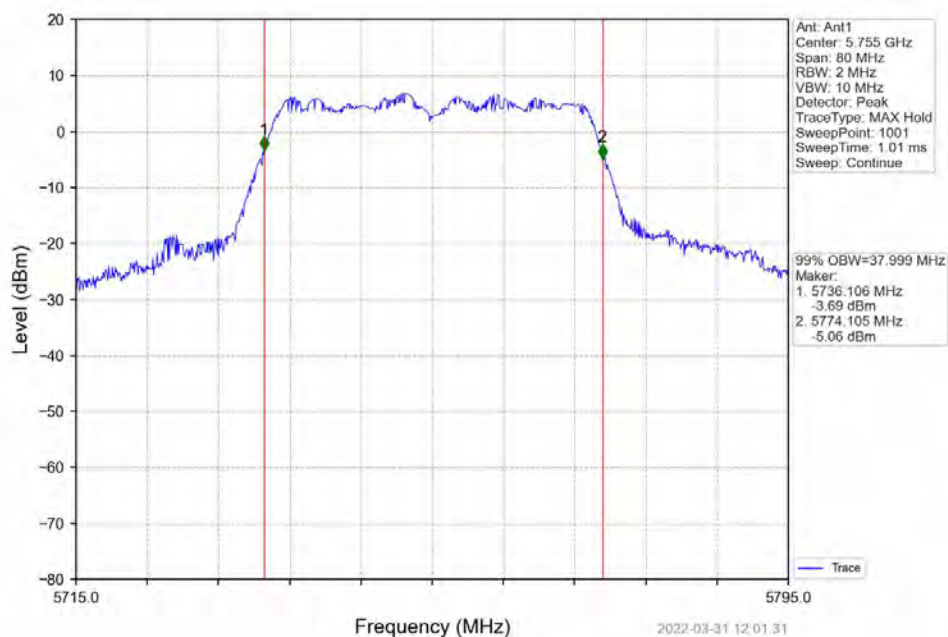
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



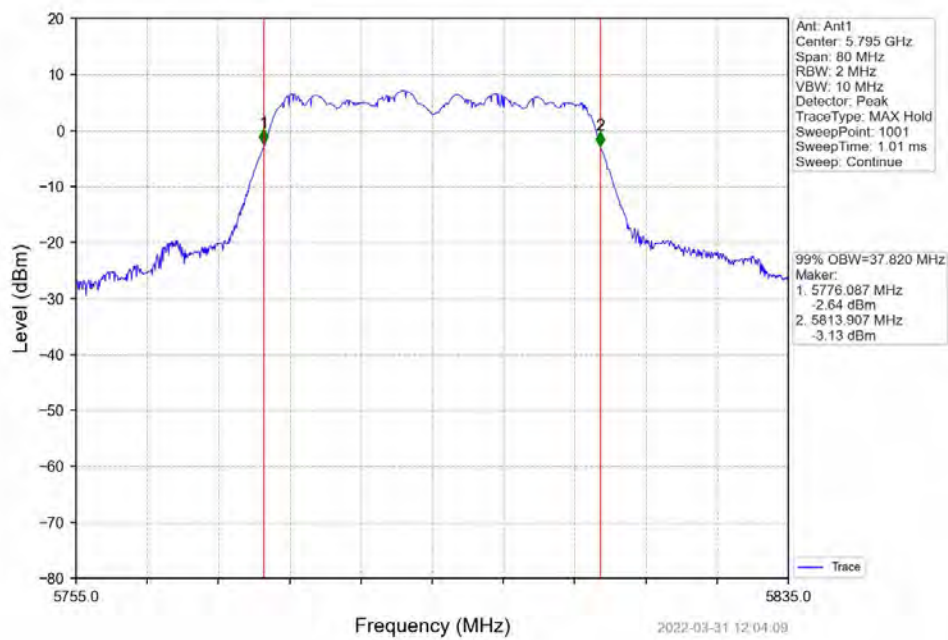
802.11n(HT40) HCH 5670MHz_Ant1_NTNV



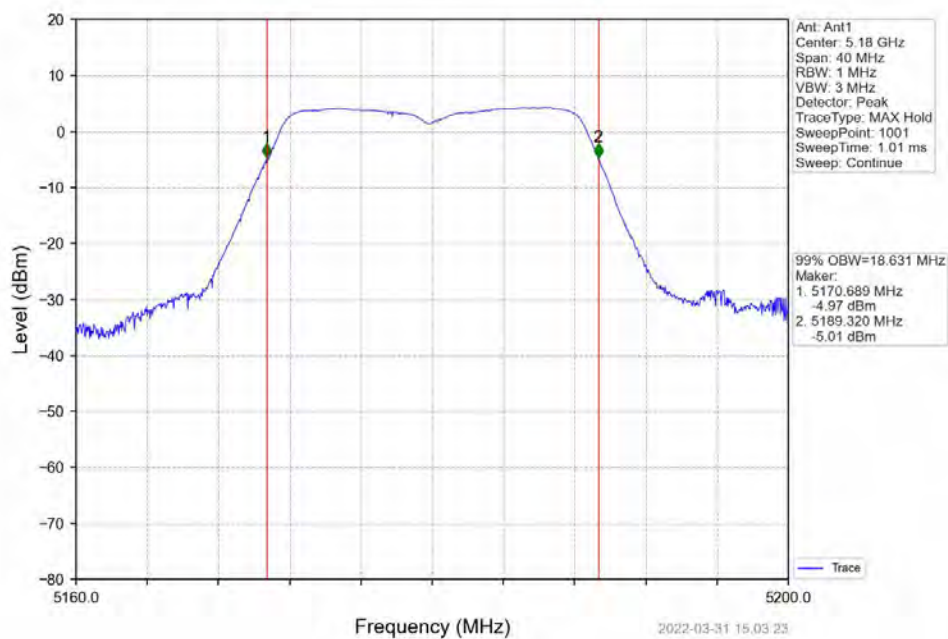
802.11n(HT40) LCH 5755MHz_Ant1_NTNV



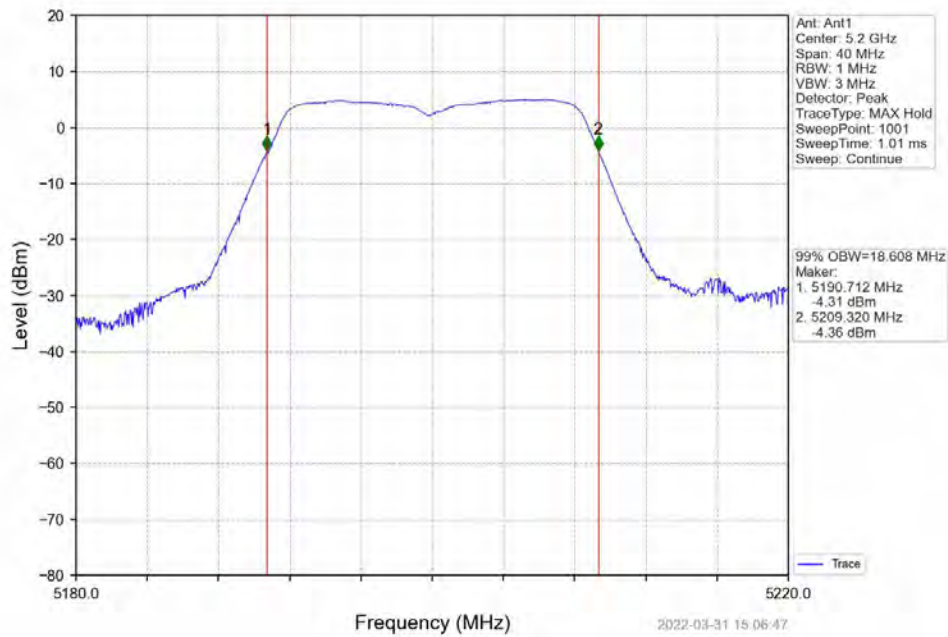
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



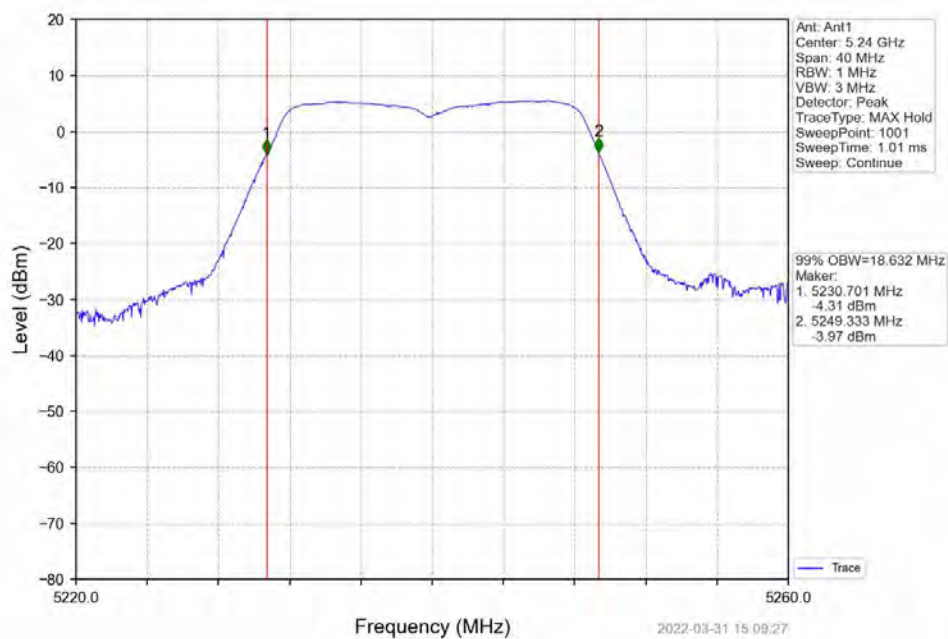
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



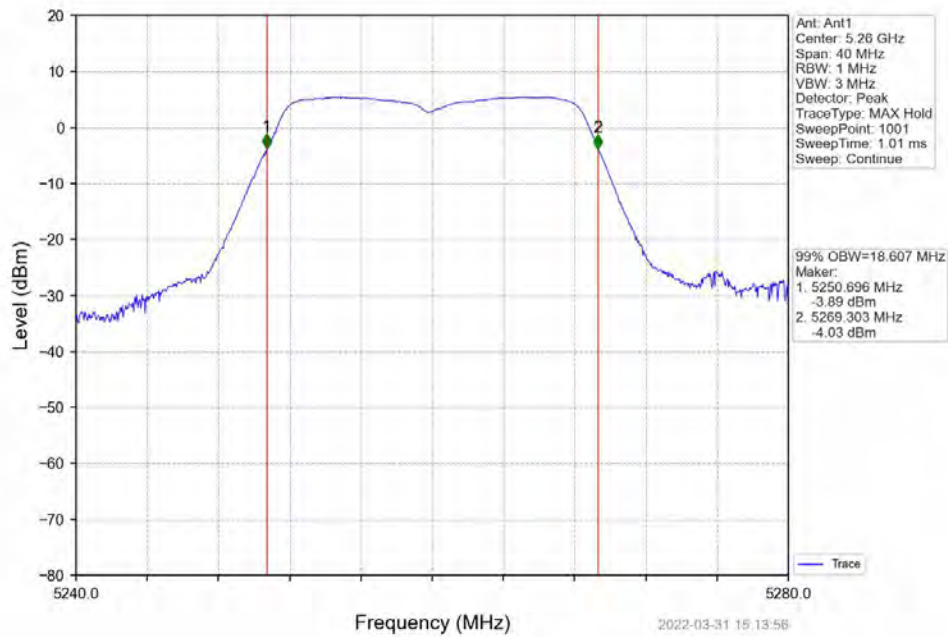
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



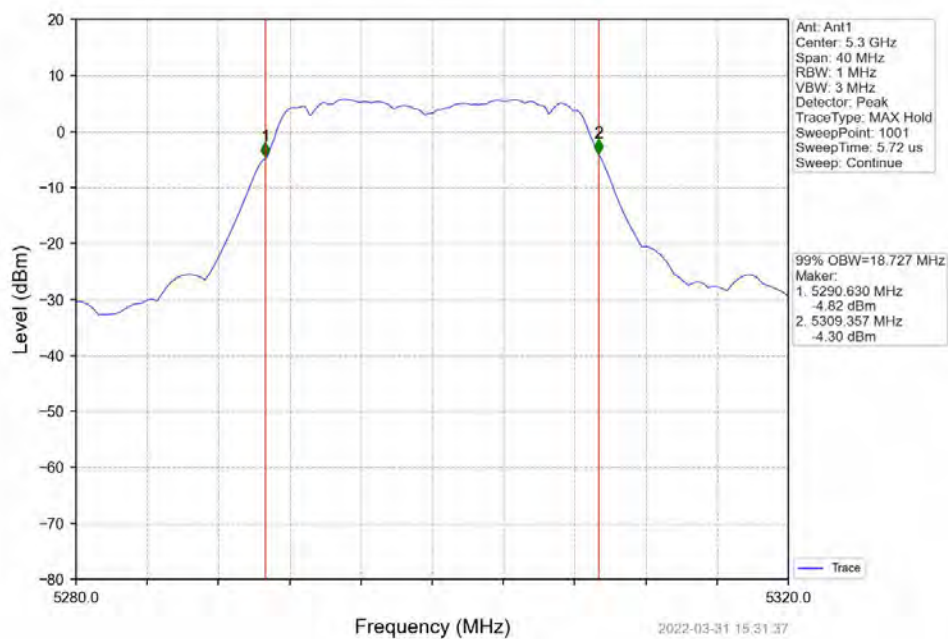
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



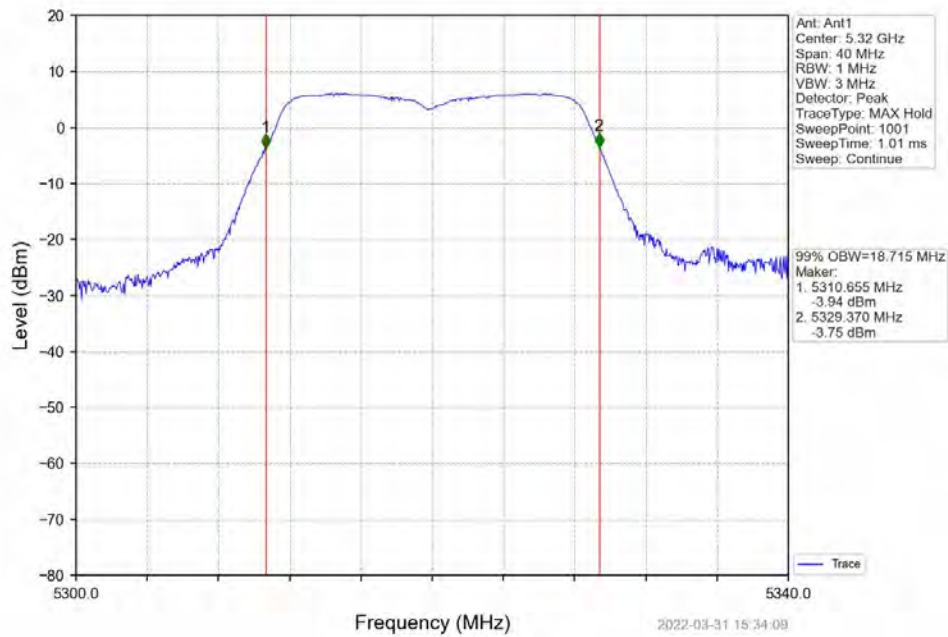
802.11ac(VHT20) LCH_5260MHz_Ant1_NTNV



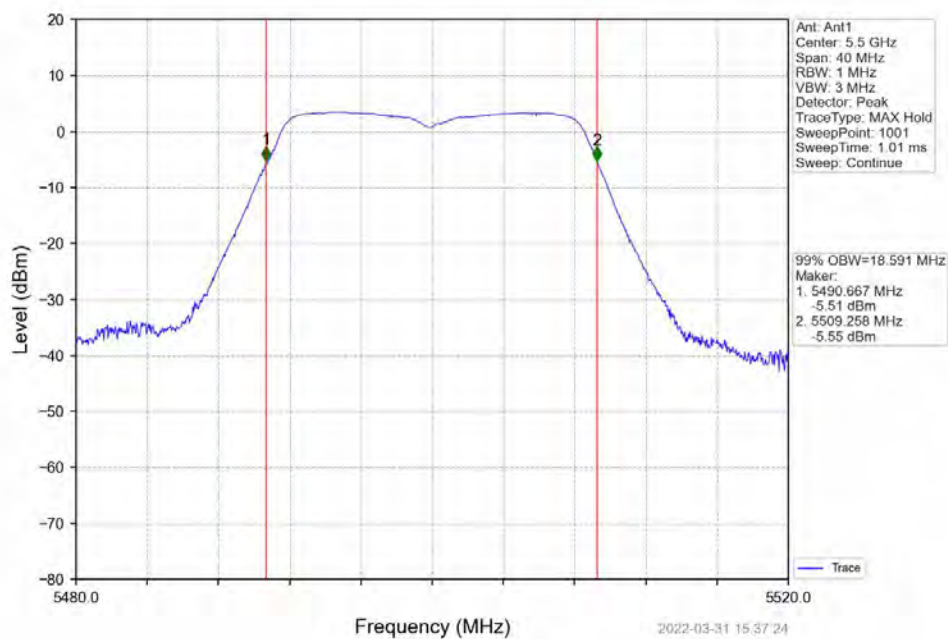
802.11ac(VHT20) MCH_5300MHz_Ant1_NTNV



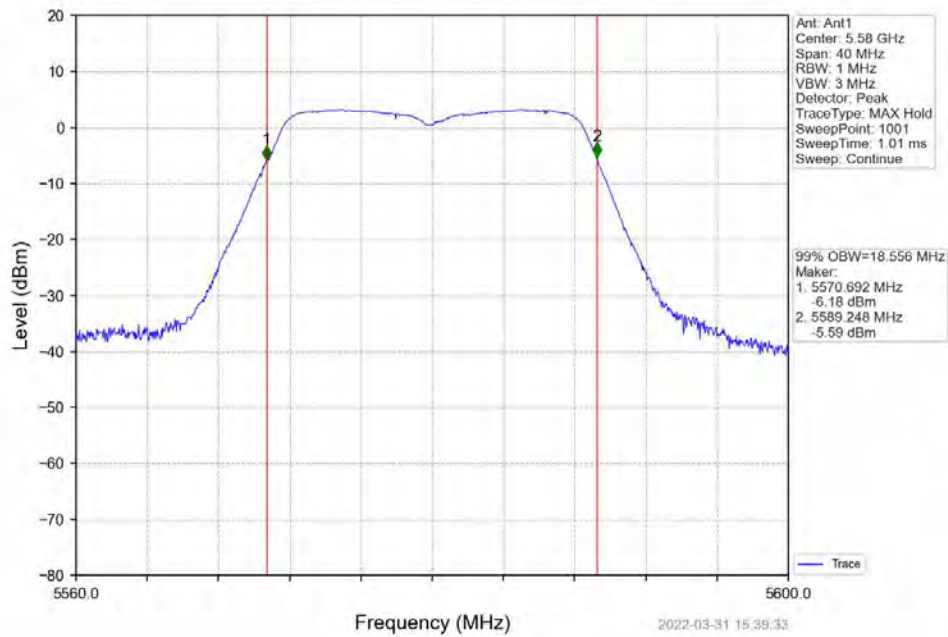
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



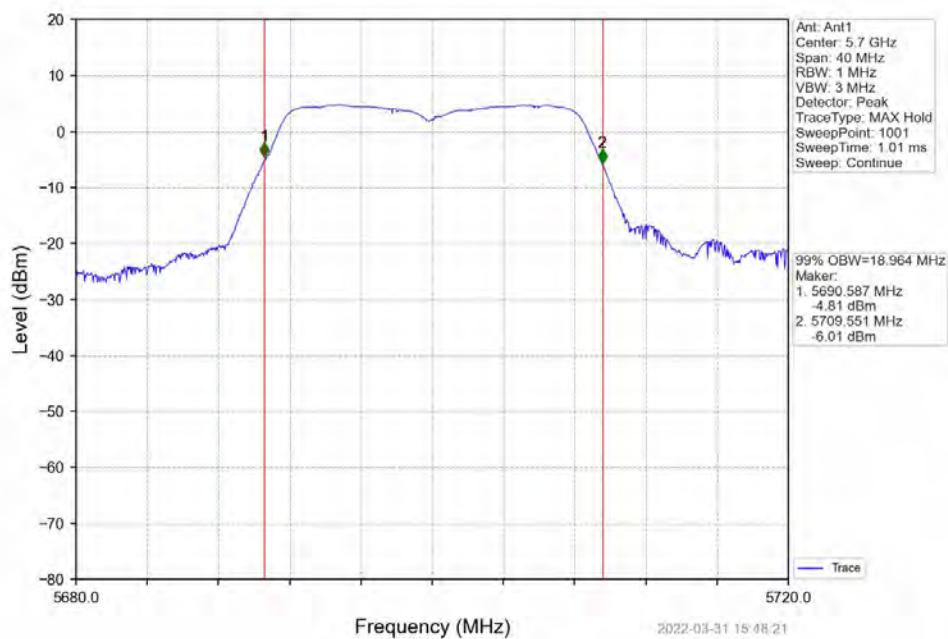
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



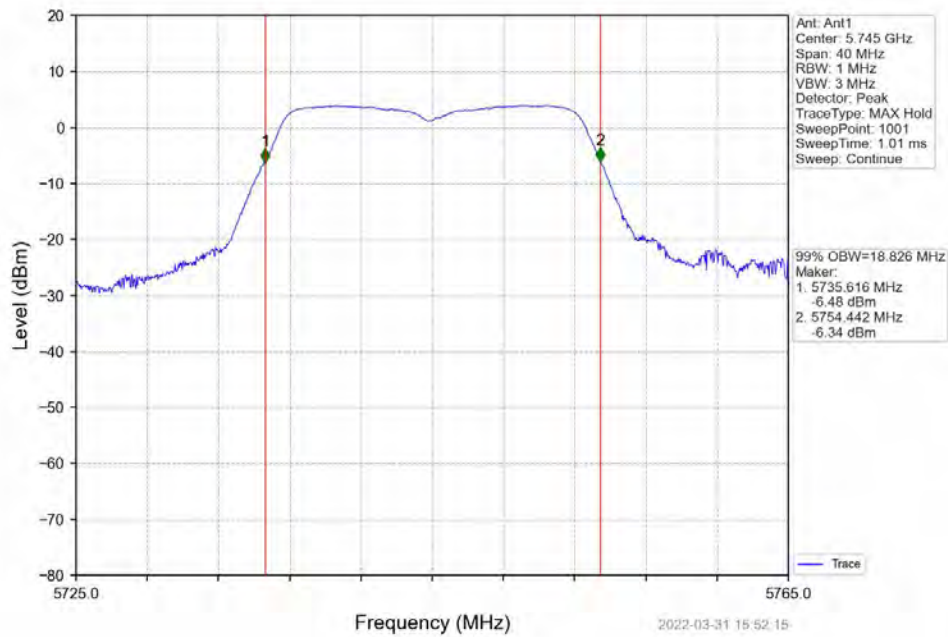
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



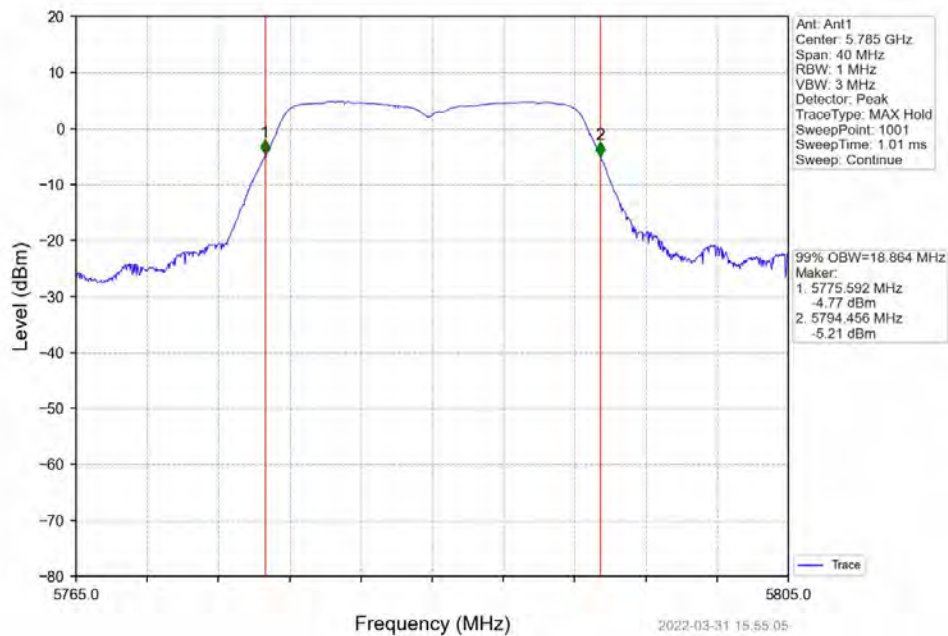
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



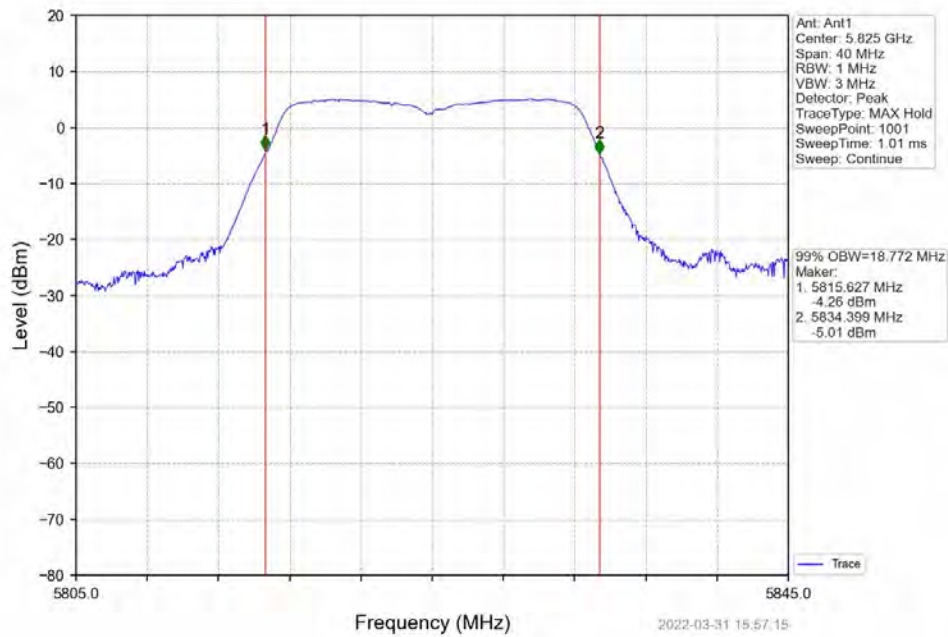
802.11ac(VHT20) LCH_5745MHz_Ant1_NTNV



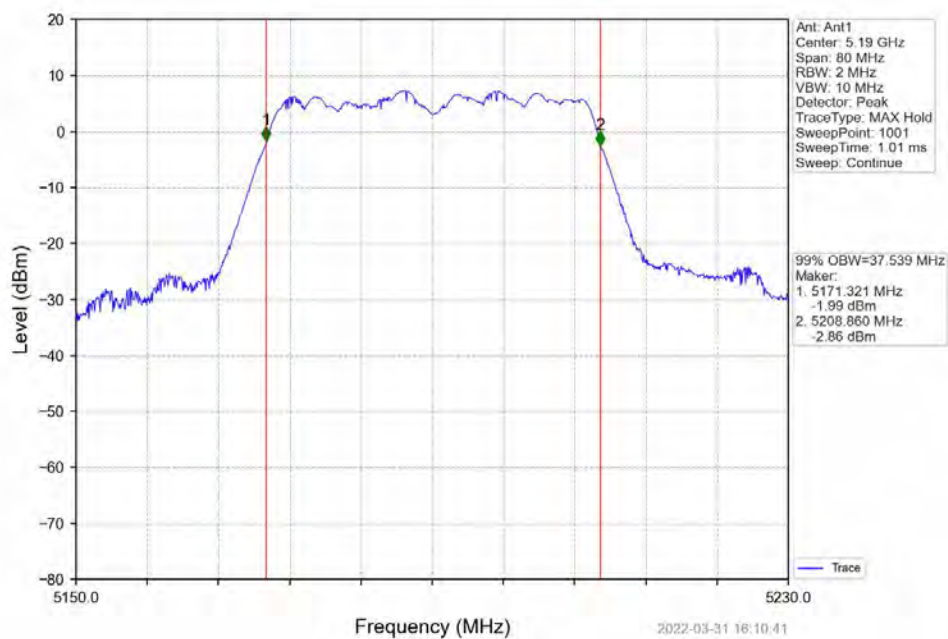
802.11ac(VHT20) MCH_5785MHz_Ant1_NTNV



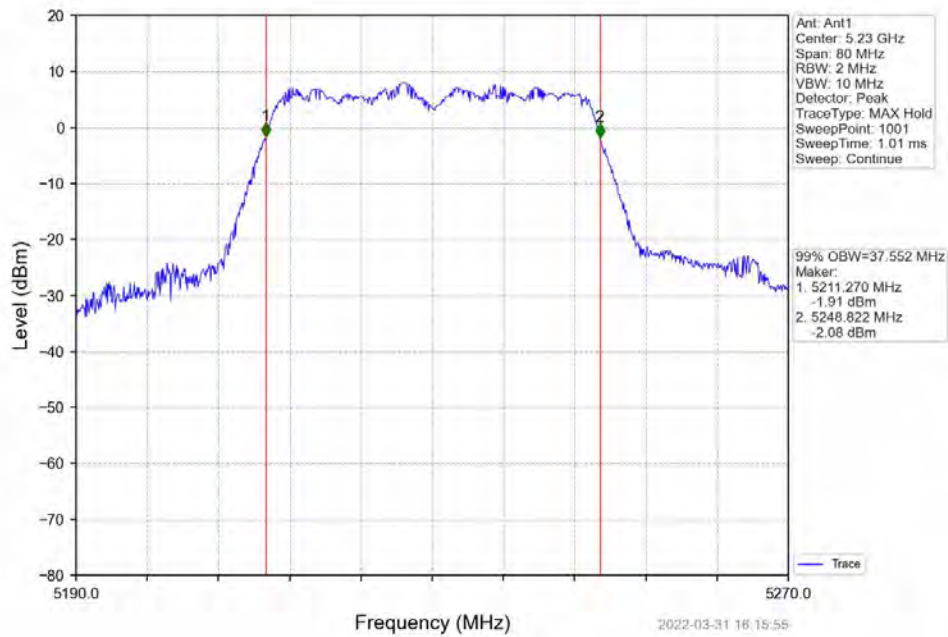
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



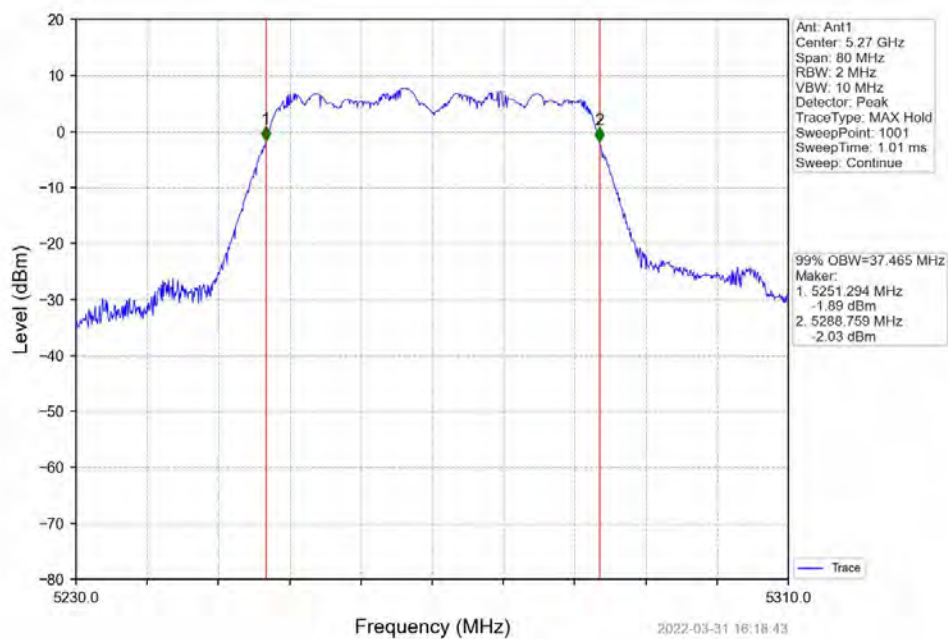
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



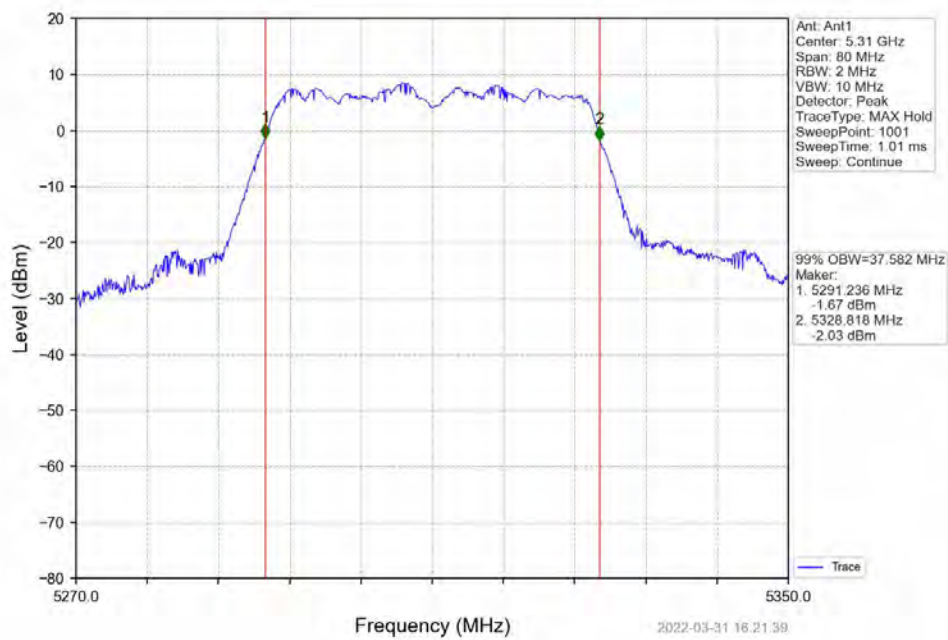
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



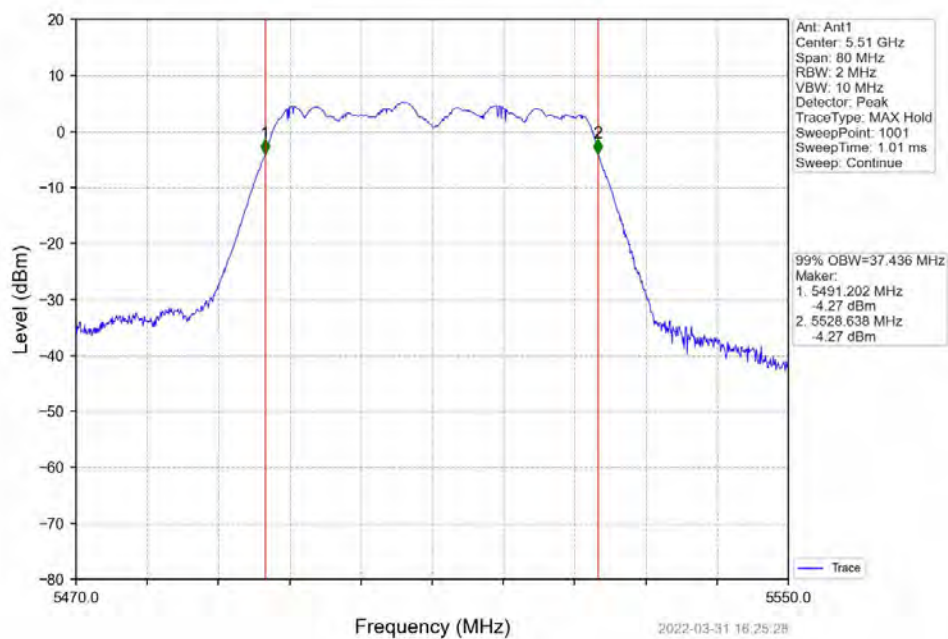
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



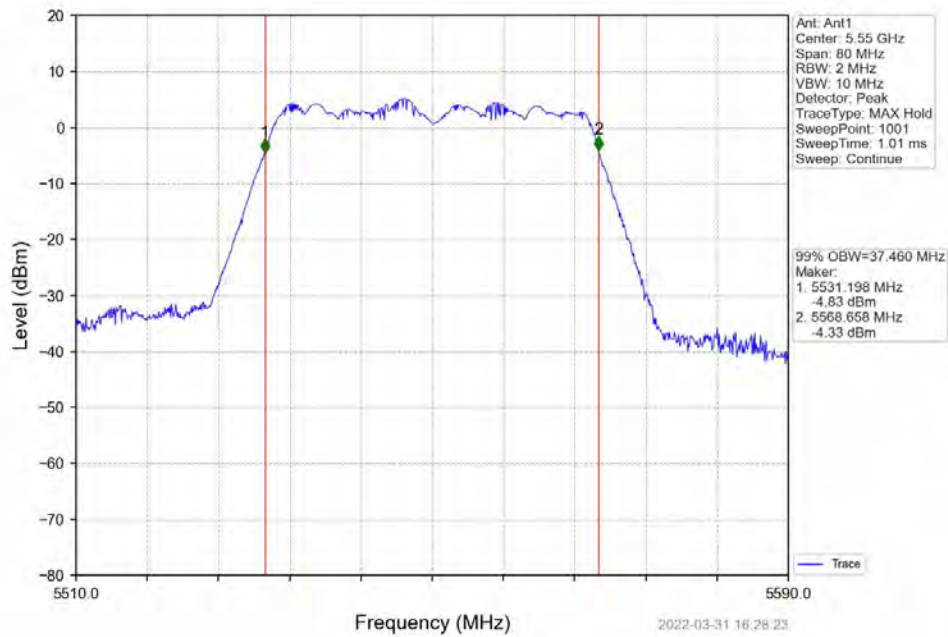
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



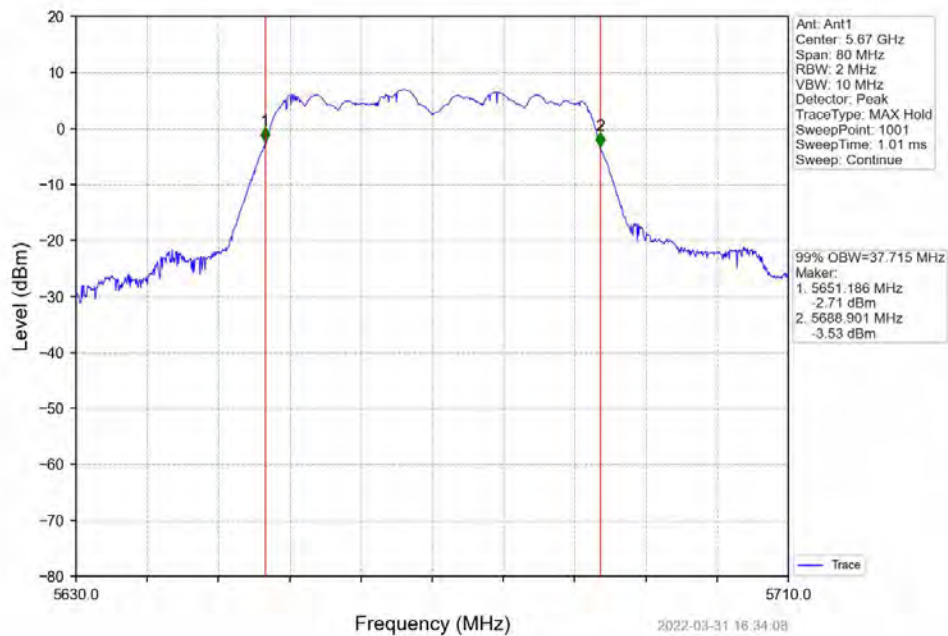
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



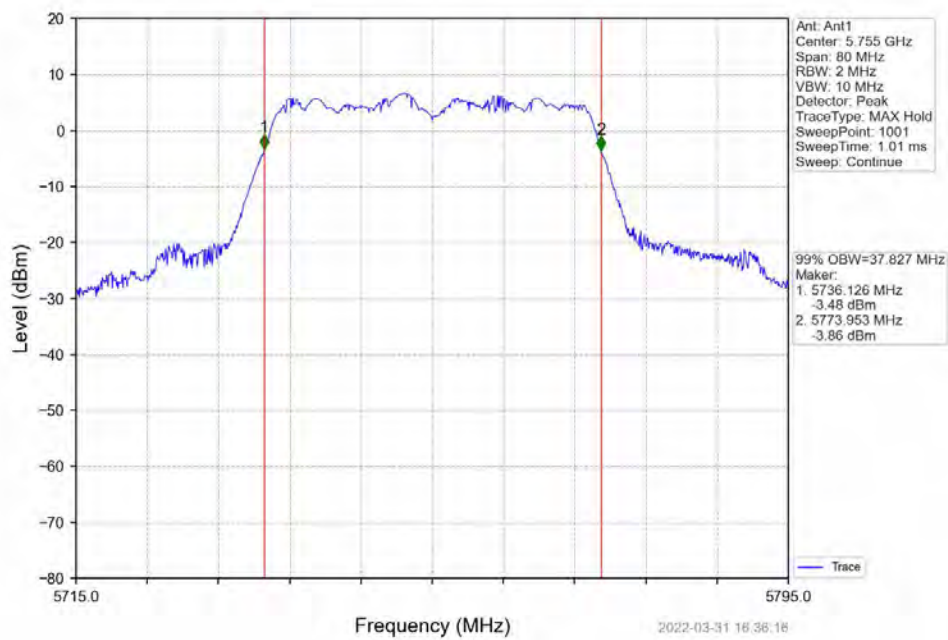
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



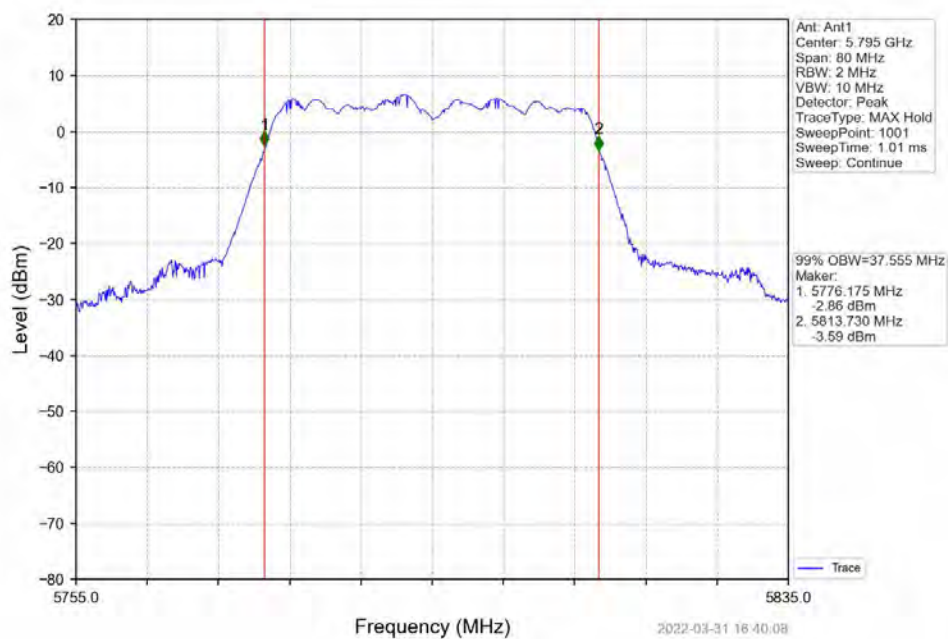
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



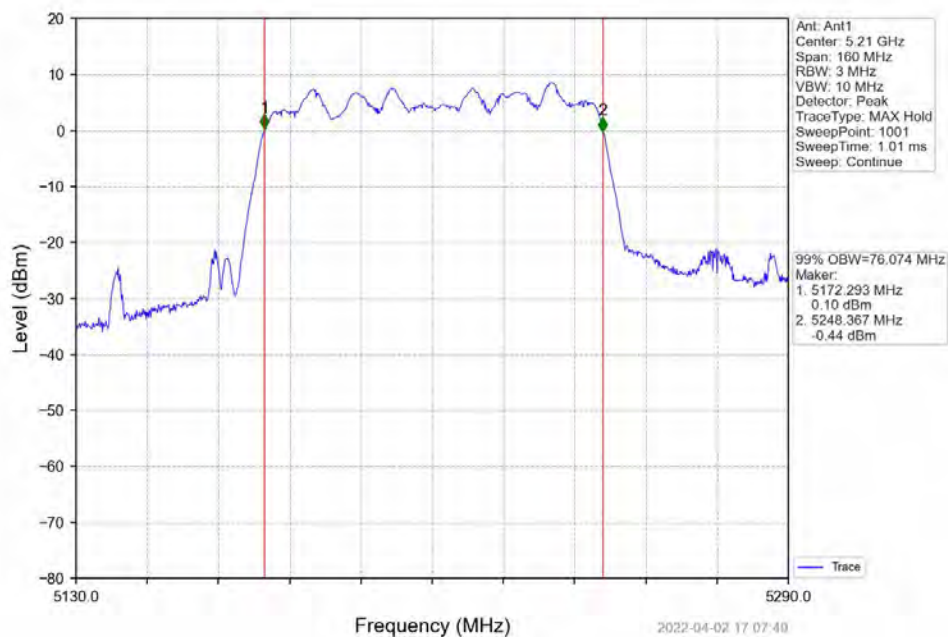
802.11ac(VHT40) LCH_5755MHz_Ant1_NTNV



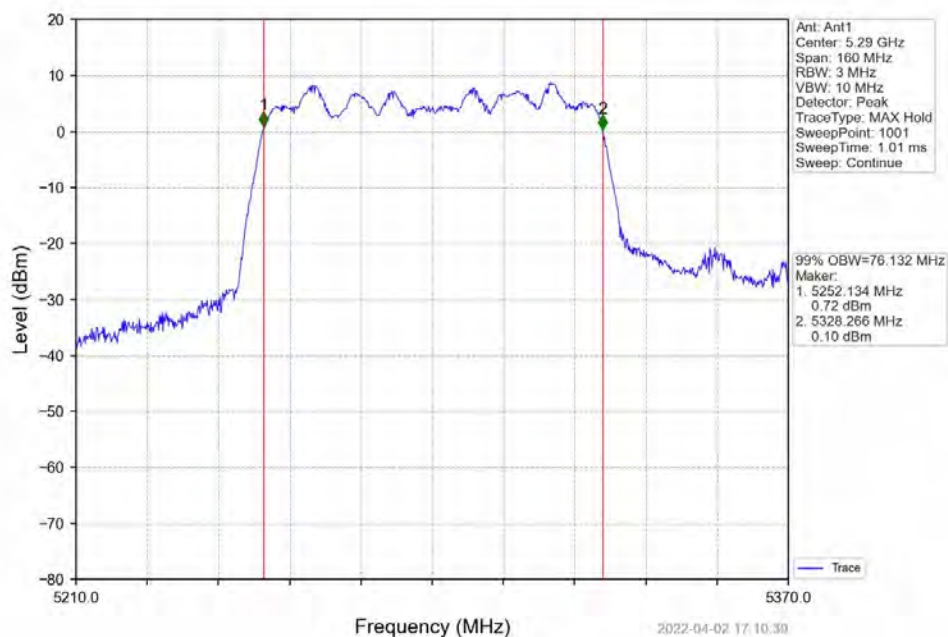
802.11ac(VHT40) HCH_5795MHz_Ant1_NTNV



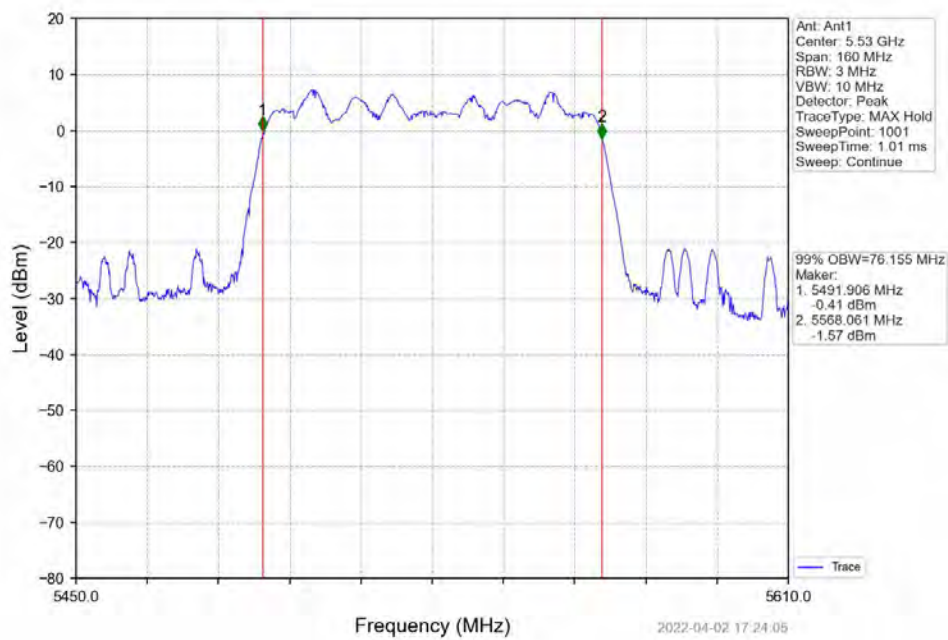
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



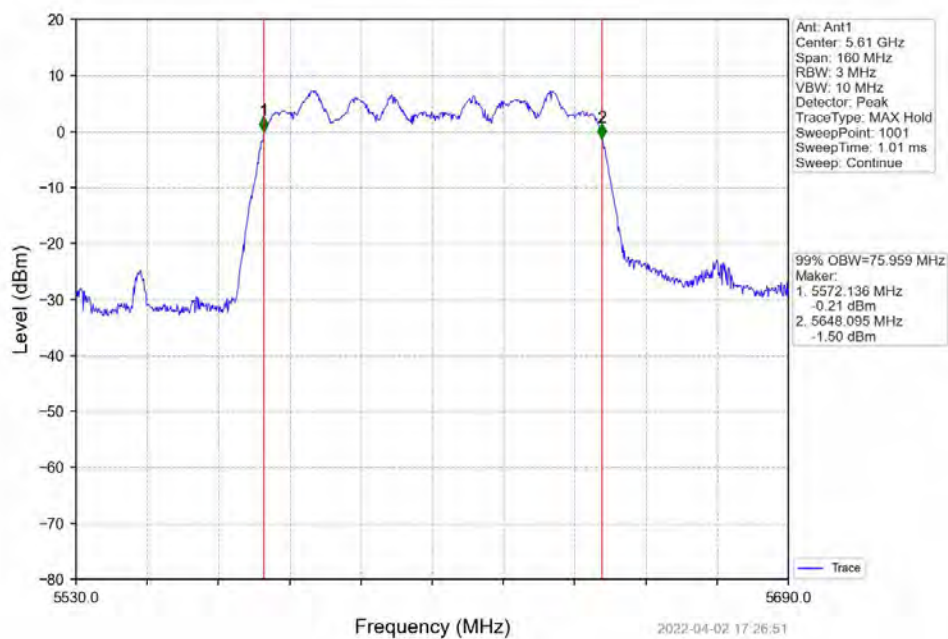
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

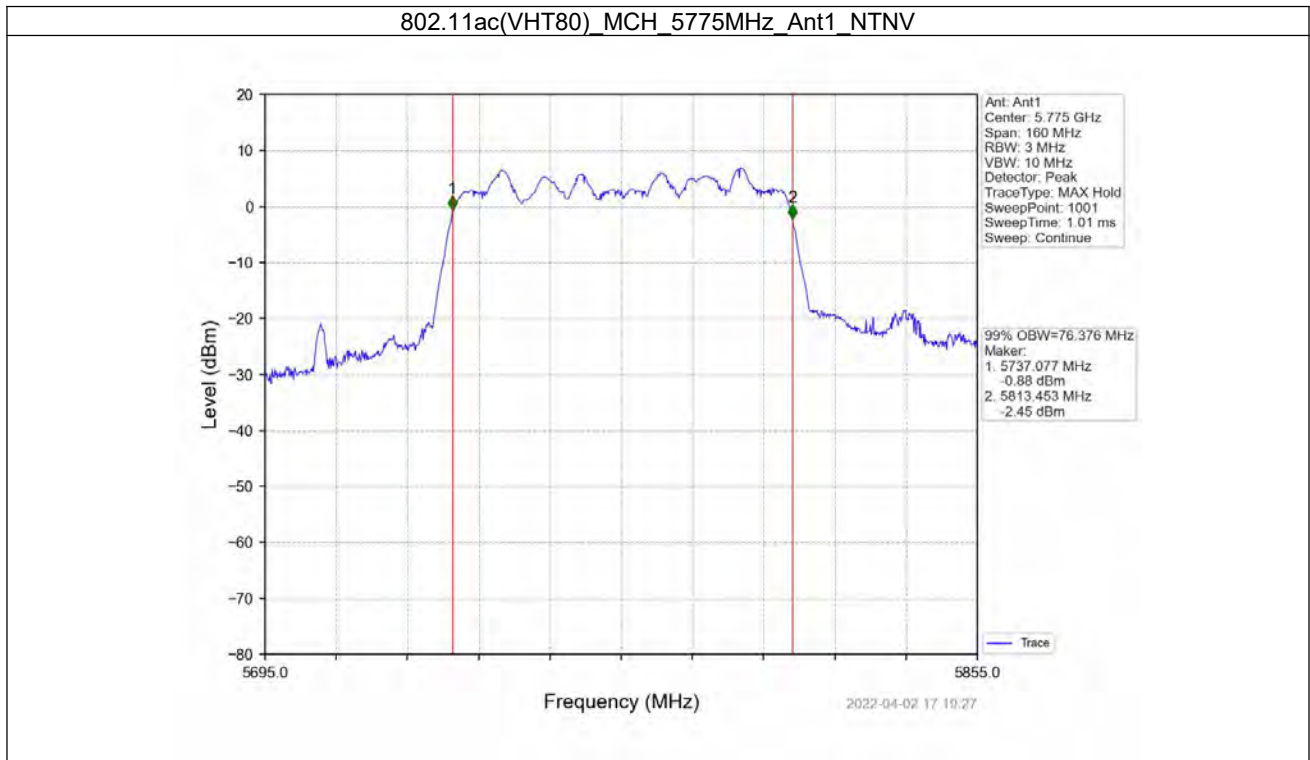


802.11ac(VHT80) LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80) HCH_5610MHz_Ant1_NTNV





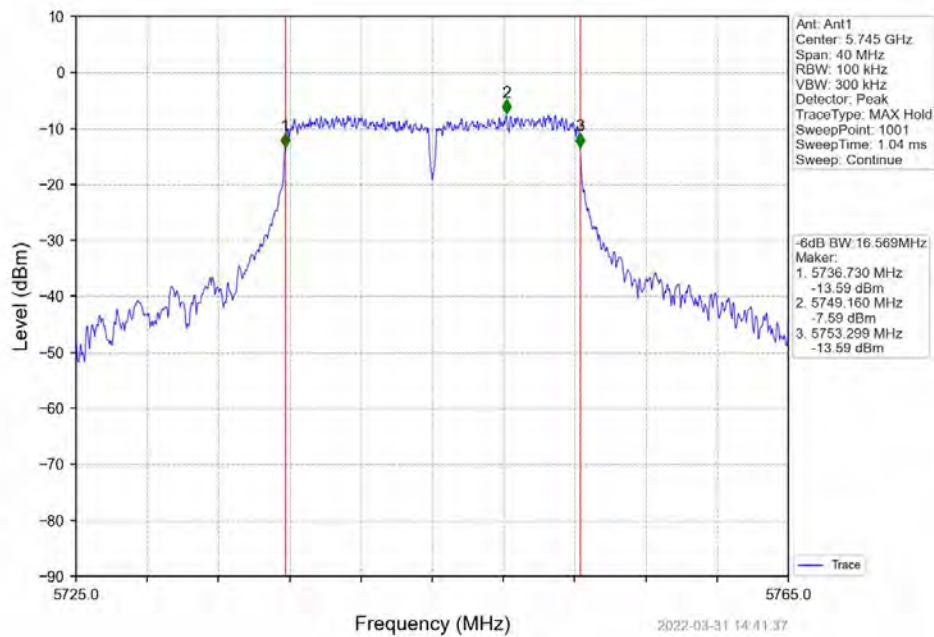
Appendix A3: 6dB emission bandwidth

Test Result

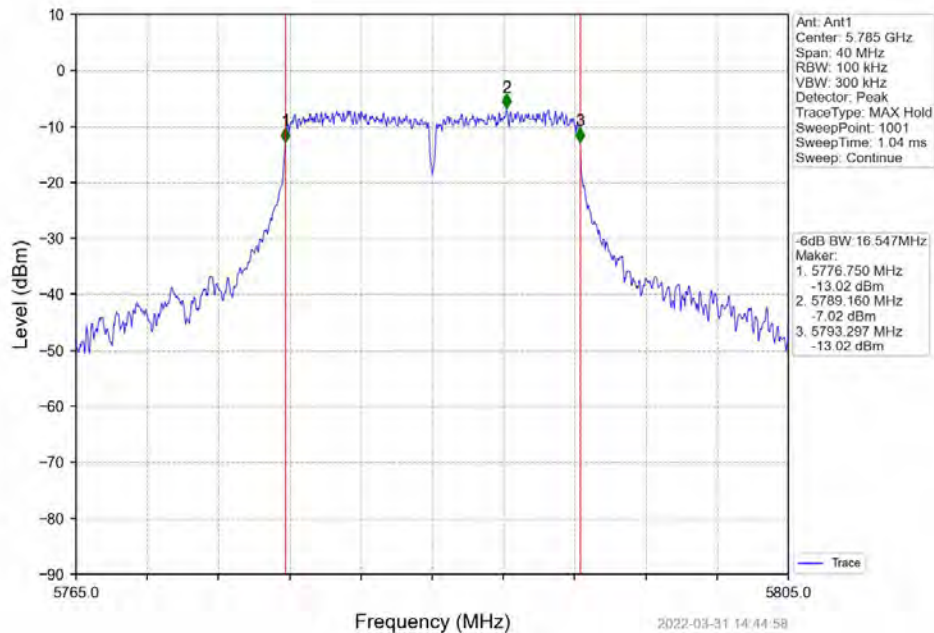
Test Mode	Antenna	Channel	6dB EBW [MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.569	0.5	PASS
		5785	16.547	0.5	PASS
		5825	16.539	0.5	PASS
11N20SISO	Ant1	5745	17.659	0.5	PASS
		5785	17.664	0.5	PASS
		5825	17.662	0.5	PASS
11N40SISO	Ant1	5755	36.452	0.5	PASS
		5795	36.445	0.5	PASS
11AC20SISO	Ant1	5745	17.682	0.5	PASS
		5785	17.666	0.5	PASS
		5825	17.656	0.5	PASS
11AC40SISO	Ant1	5755	36.457	0.5	PASS
		5795	36.449	0.5	PASS
11AC80SISO	Ant1	5775	75.851	0.5	PASS

Test Graphs

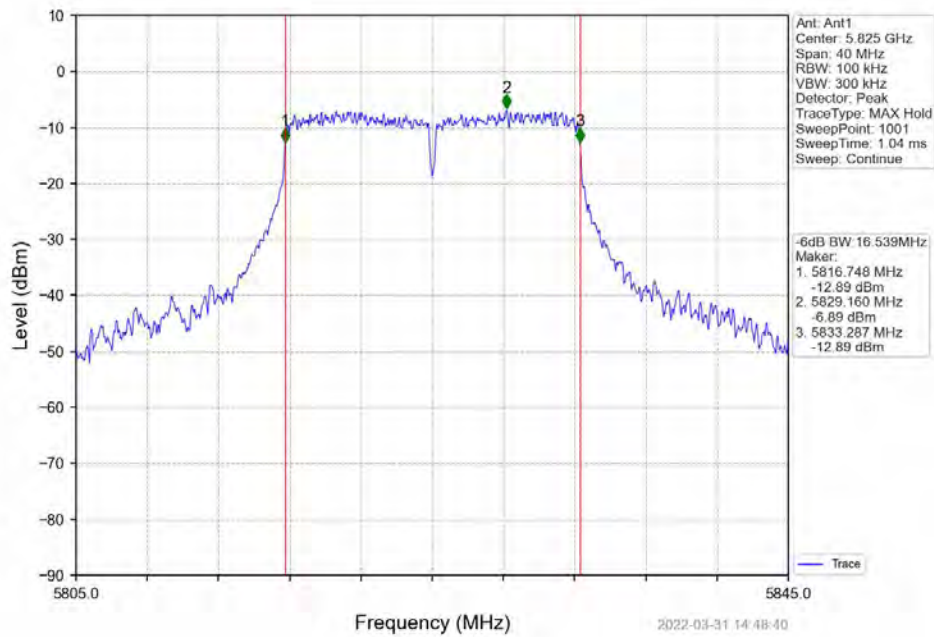
802.11a_LCH_5745MHz_Ant1_NTNV



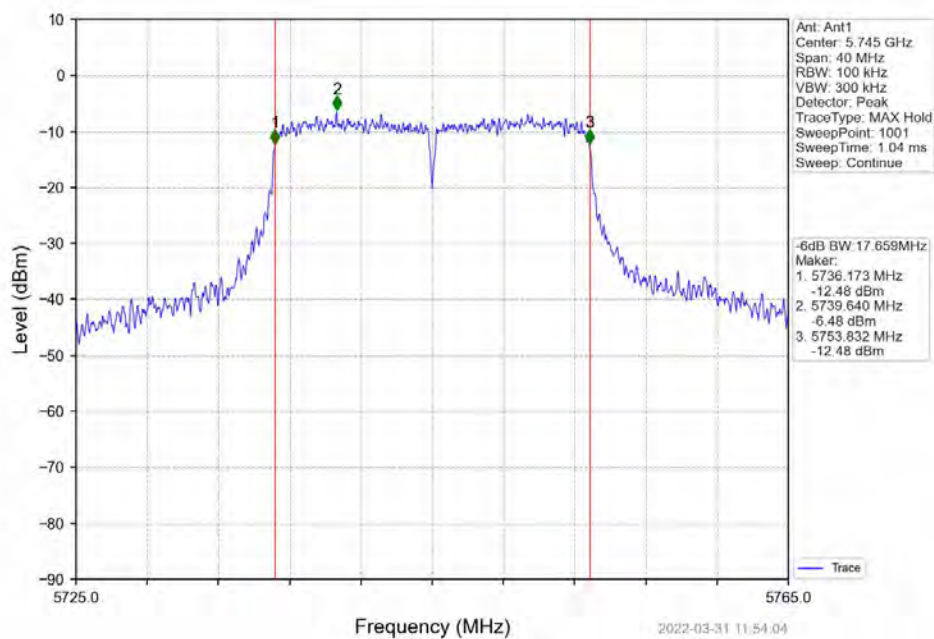
802.11a_MCH_5785MHz_Ant1_NTNV



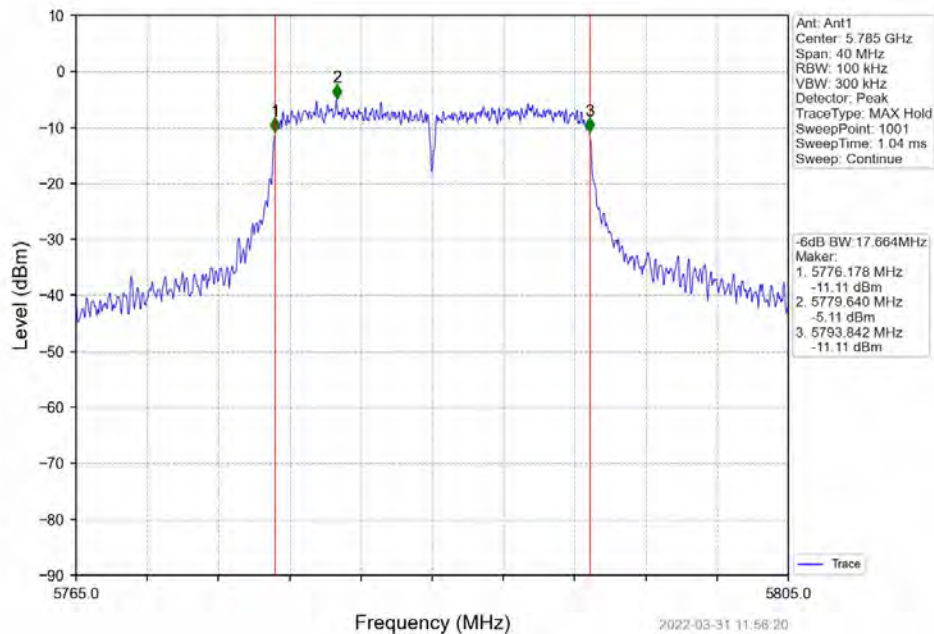
802.11a_HCH_5825MHz_Ant1_NTNV



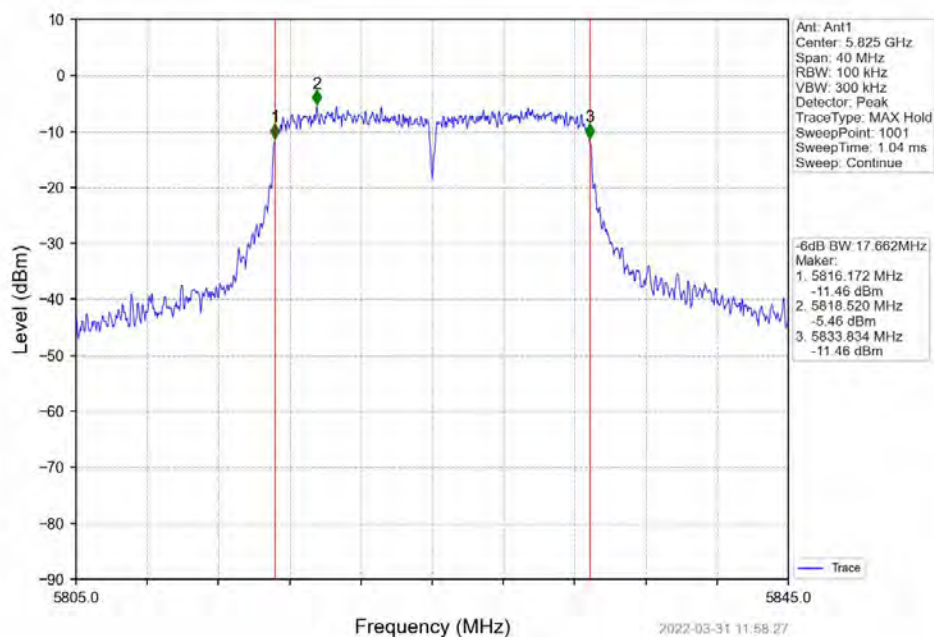
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



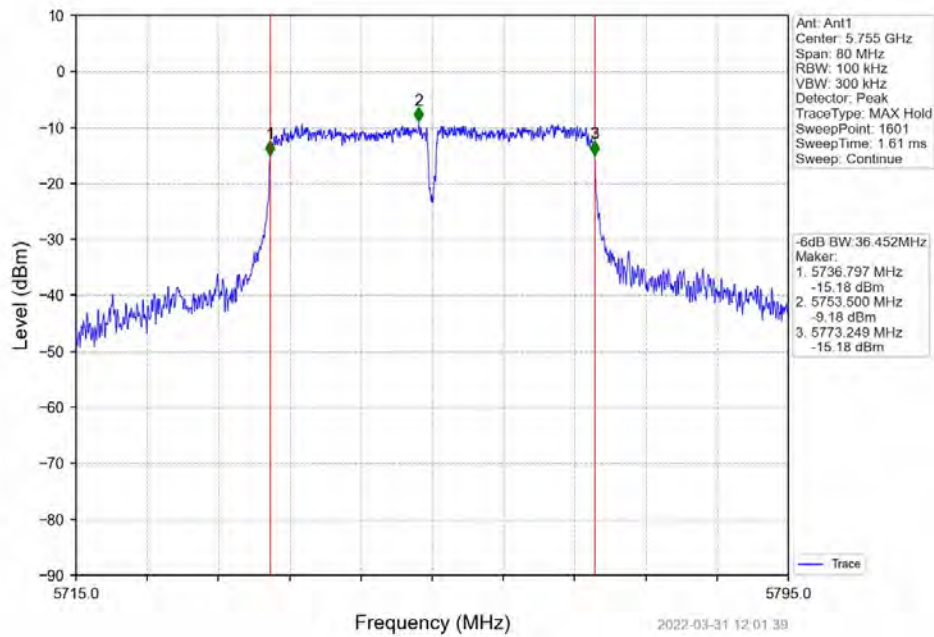
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



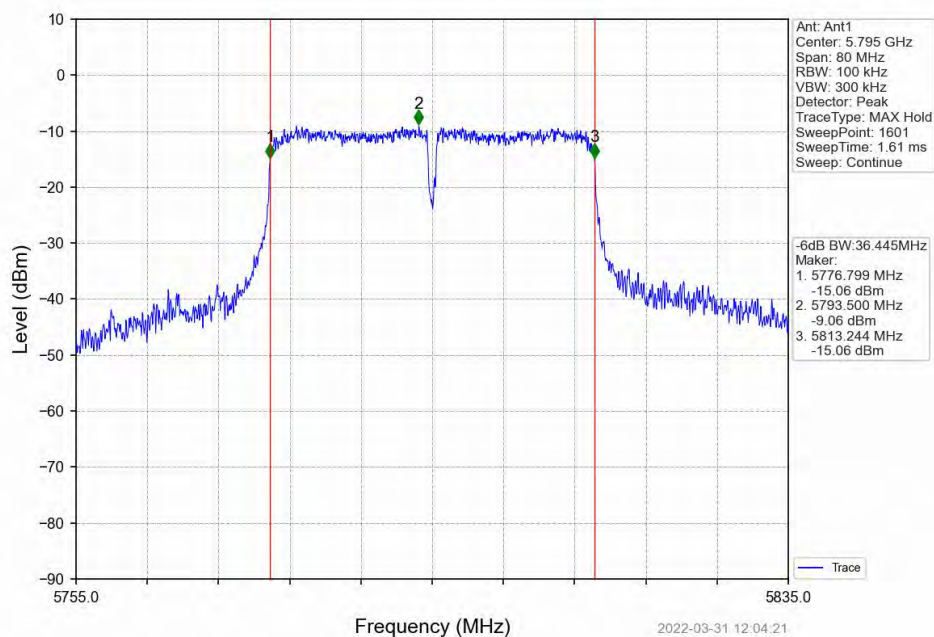
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



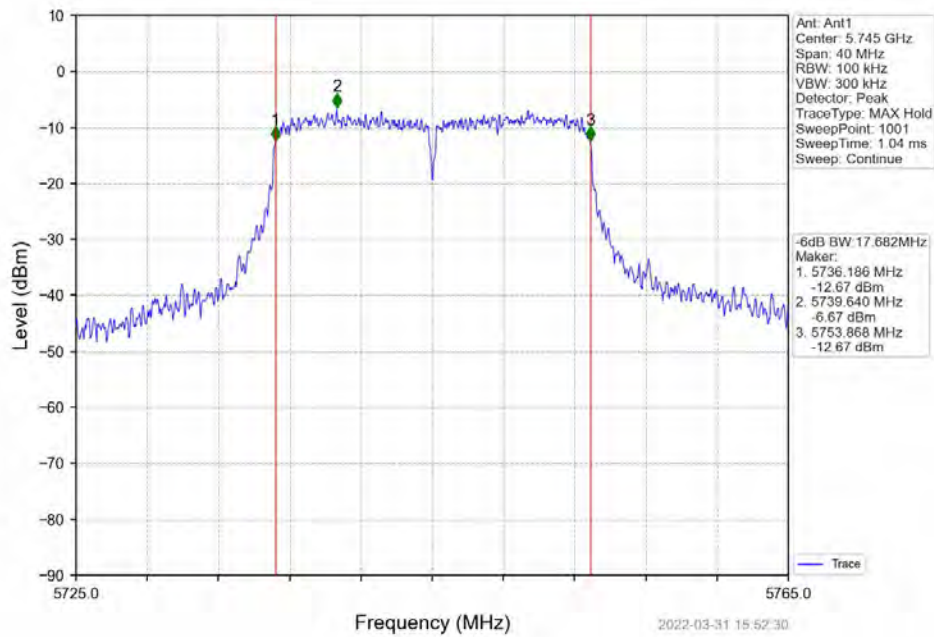
802.11n(HT40) LCH 5755MHz Ant1_NTNV



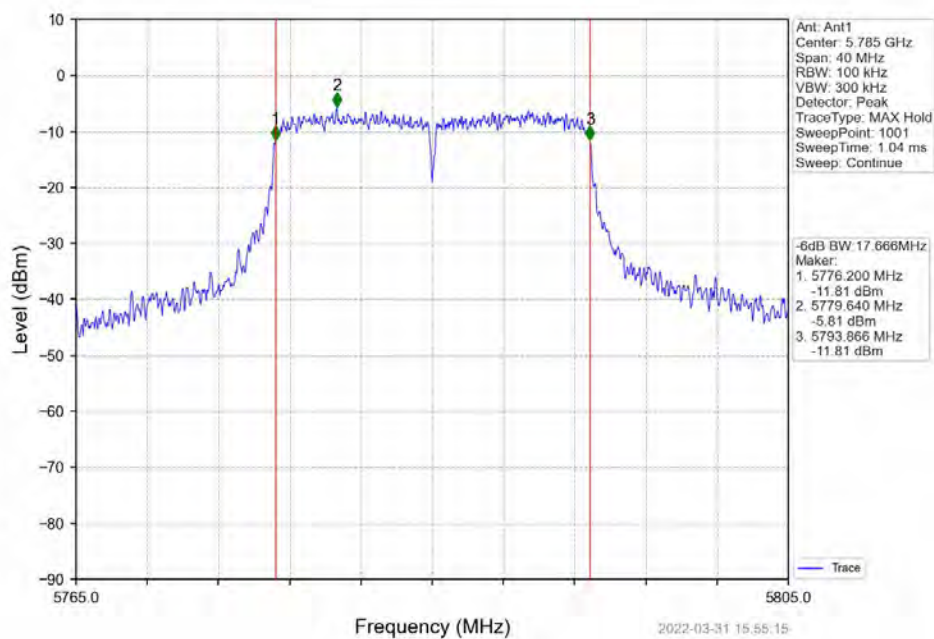
802.11n(HT40) HCH 5795MHz Ant1_NTNV



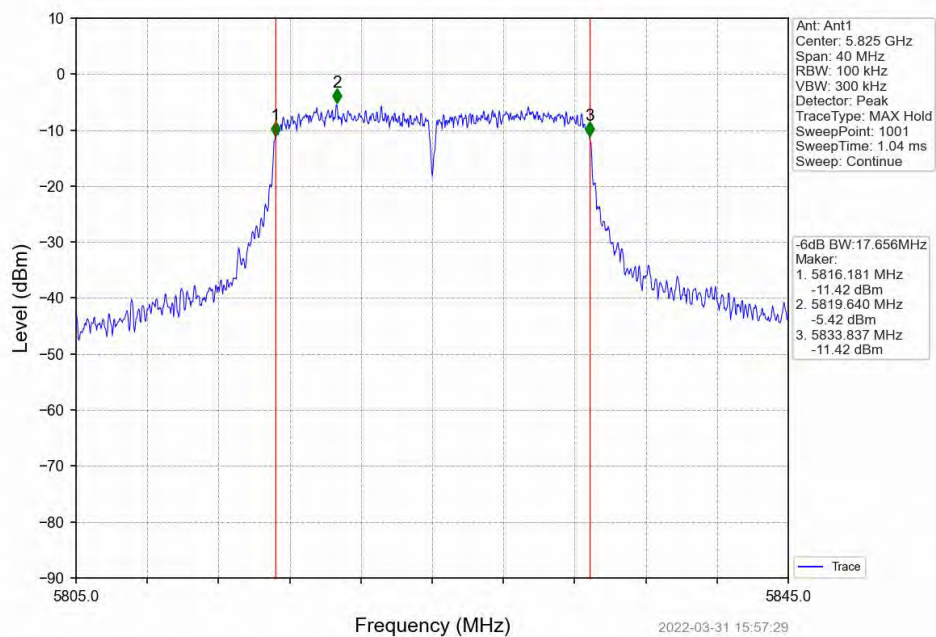
802.11ac(VHT20) LCH_5745MHz_Ant1_NTNV



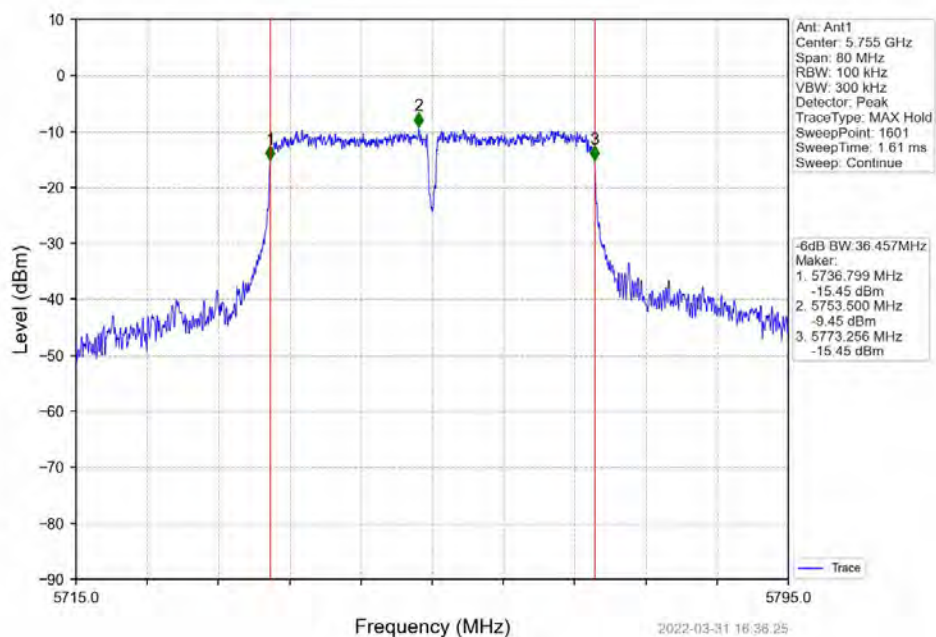
802.11ac(VHT20) MCH_5785MHz_Ant1_NTNV



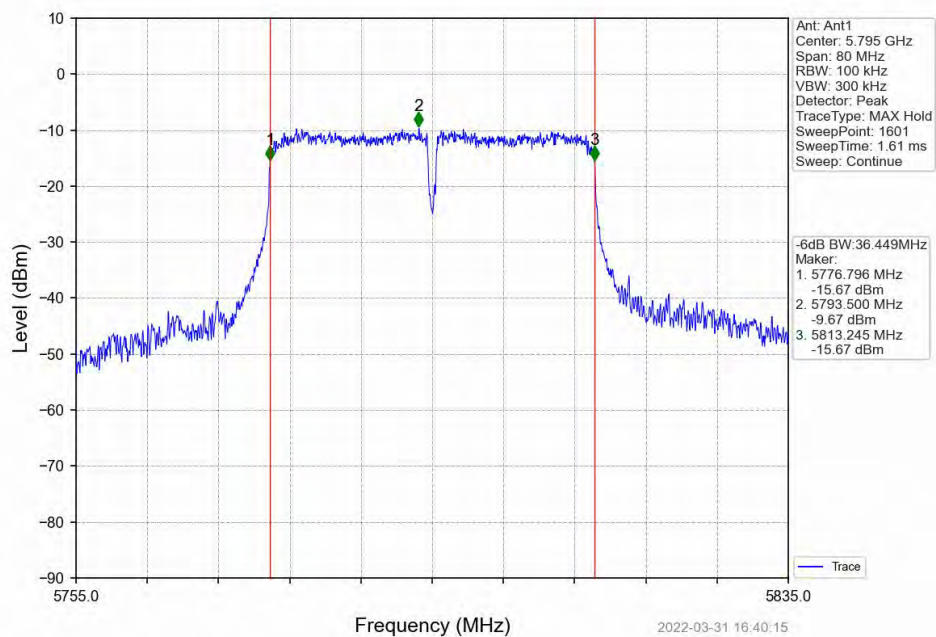
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



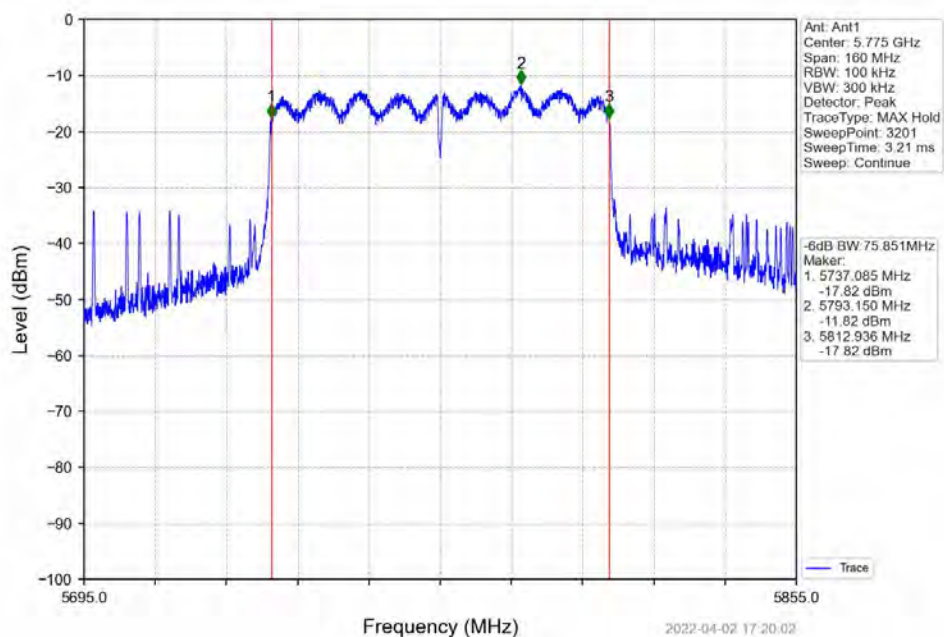
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.89	≤23.98	PASS
		5200	7.88	≤23.98	PASS
		5240	8.04	≤23.98	PASS
		5260	7.77	≤23.98	PASS
		5300	7.14	≤23.96	PASS
		5320	7.27	≤23.98	PASS
		5500	6.81	≤23.98	PASS
		5580	6.20	≤23.98	PASS
		5700	7.62	≤23.98	PASS
		5745	6.29	≤30	PASS
		5785	6.81	≤30	PASS
		5825	6.85	≤30	PASS
11N20SISO	Ant1	5180	7.47	≤23.98	PASS
		5200	7.92	≤23.98	PASS
		5240	7.41	≤23.98	PASS
		5260	7.42	≤23.98	PASS
		5300	7.67	≤23.98	PASS
		5320	7.57	≤23.98	PASS
		5500	7.24	≤23.98	PASS
		5580	6.44	≤23.98	PASS
		5700	7.89	≤23.98	PASS
		5745	6.79	≤30	PASS
		5785	6.16	≤30	PASS
		5825	6.05	≤30	PASS
11N40SISO	Ant1	5190	7.00	≤23.98	PASS
		5230	7.56	≤23.98	PASS
		5270	7.63	≤23.98	PASS
		5310	7.02	≤23.98	PASS
		5510	7.13	≤23.98	PASS
		5550	6.59	≤23.98	PASS
		5670	7.29	≤23.98	PASS
		5755	6.64	≤30	PASS
		5795	5.92	≤30	PASS
11AC20SISO	Ant1	5180	7.11	≤23.98	PASS
		5200	7.70	≤23.98	PASS
		5240	7.24	≤23.98	PASS
		5260	7.14	≤23.98	PASS
		5300	7.79	≤23.98	PASS
		5320	7.45	≤23.98	PASS
		5500	6.40	≤23.98	PASS
		5580	5.89	≤23.98	PASS
		5700	7.61	≤23.98	PASS
		5745	6.70	≤30	PASS
		5785	6.76	≤30	PASS
		5825	6.83	≤30	PASS

11AC40SISO	Ant1	5190	7.01	≤ 23.98	PASS
		5230	7.63	≤ 23.98	PASS
		5270	7.31	≤ 23.98	PASS
		5310	7.43	≤ 23.98	PASS
		5510	5.66	≤ 23.98	PASS
		5550	5.63	≤ 23.98	PASS
		5670	7.39	≤ 23.98	PASS
		5755	6.27	≤ 30	PASS
		5795	6.14	≤ 30	PASS
11AC80SISO	Ant1	5210	7.35	≤ 23.98	PASS
		5290	7.46	≤ 23.98	PASS
		5530	7.29	≤ 23.98	PASS
		5610	7.38	≤ 23.98	PASS
		5775	6.83	≤ 30	PASS

Note: The Duty Cycle Factor is compensated in the graph.

Appendix C: Maximum power spectral density

Test Result

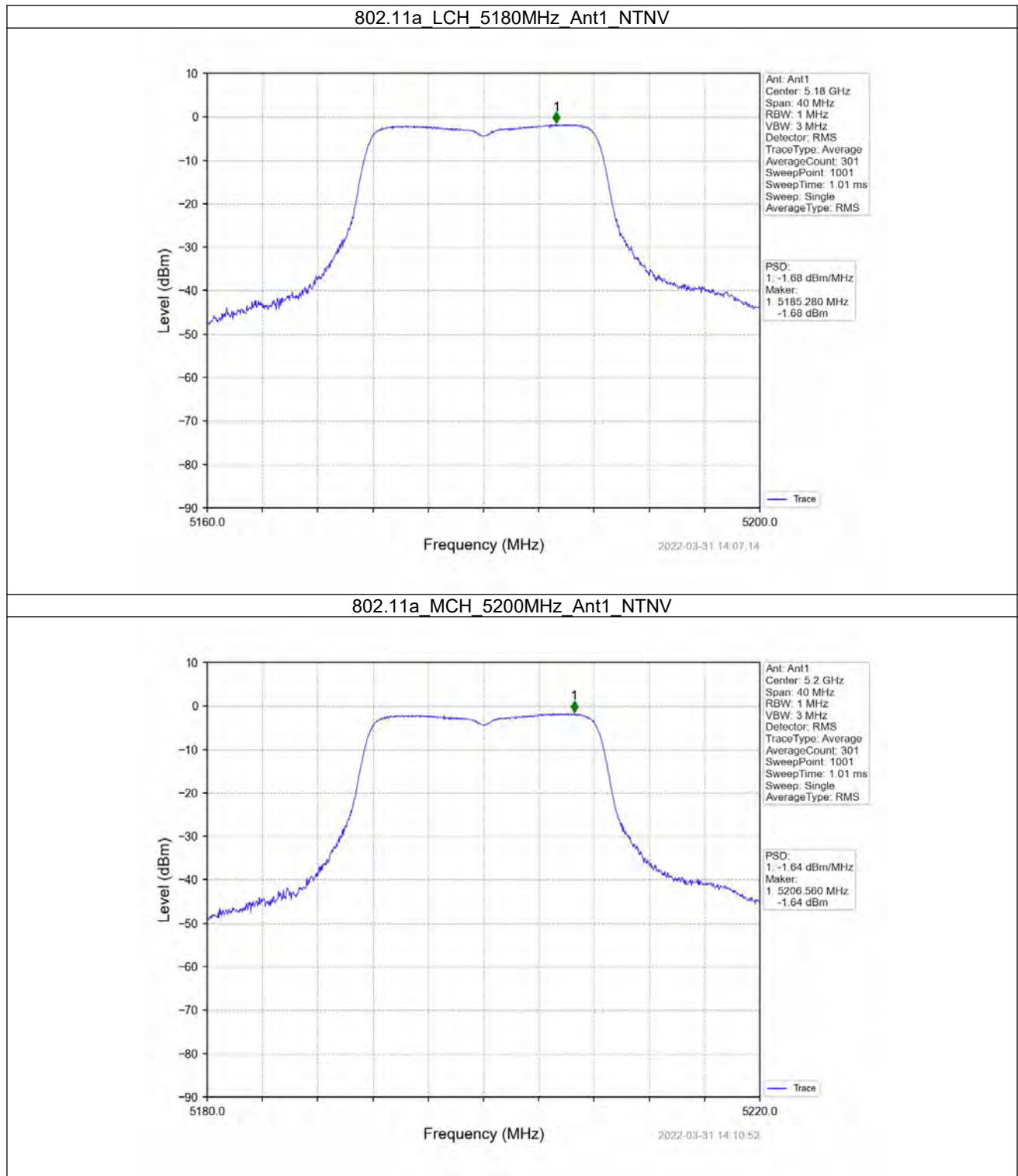
Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.68	≤11	PASS
		5200	-1.64	≤11	PASS
		5240	-2.56	≤11	PASS
		5260	-2.86	≤11	PASS
		5300	-2.53	≤11	PASS
		5320	-2.41	≤11	PASS
		5500	-4.78	≤11	PASS
		5580	-4.40	≤11	PASS
		5700	-2.98	≤11	PASS
		5745	-7.25	≤30	PASS
		5785	-6.82	≤30	PASS
		5825	-6.70	≤30	PASS
11N20SISO	Ant1	5180	-1.68	≤11	PASS
		5200	-1.64	≤11	PASS
		5240	-2.56	≤11	PASS
		5260	-2.86	≤11	PASS
		5300	-2.53	≤11	PASS
		5320	-2.41	≤11	PASS
		5500	-4.78	≤11	PASS
		5580	-4.40	≤11	PASS
		5700	-2.98	≤11	PASS
		5745	-6.99	≤30	PASS
		5785	-5.60	≤30	PASS
		5825	-5.55	≤30	PASS
11N40SISO	Ant1	5190	-5.78	≤11	PASS
		5230	-5.31	≤11	PASS
		5270	-5.30	≤11	PASS
		5310	-4.99	≤11	PASS
		5510	-6.77	≤11	PASS
		5550	-7.41	≤11	PASS
		5670	-6.66	≤11	PASS
		5755	-9.22	≤30	PASS
		5795	-8.96	≤30	PASS
11AC20SISO	Ant1	5180	-3.67	≤11	PASS
		5200	-3.06	≤11	PASS
		5240	-2.53	≤11	PASS
		5260	-2.82	≤11	PASS
		5300	-1.90	≤11	PASS
		5320	-1.93	≤11	PASS
		5500	-4.32	≤11	PASS
		5580	-4.94	≤11	PASS
		5700	-3.12	≤11	PASS
		5745	-7.09	≤30	PASS
		5785	-6.05	≤30	PASS
		5825	-5.95	≤30	PASS

11AC40SISO	Ant1	5190	-5.70	≤11	PASS
		5230	-5.24	≤11	PASS
		5270	-5.79	≤11	PASS
		5310	-5.07	≤11	PASS
		5510	-8.32	≤11	PASS
		5550	-8.40	≤11	PASS
		5670	-6.65	≤11	PASS
		5755	-9.48	≤30	PASS
		5795	-9.82	≤30	PASS
11AC80SISO	Ant1	5210	-7.29	≤11	PASS
		5290	-7.28	≤11	PASS
		5530	-11.90	≤11	PASS
		5610	-8.36	≤11	PASS
		5775	-8.81	≤30	PASS

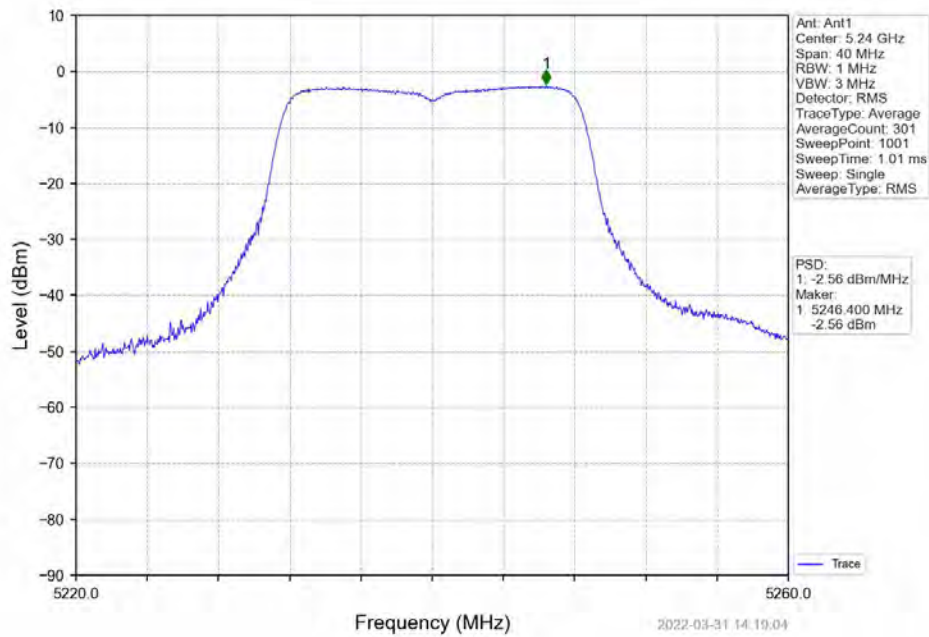
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

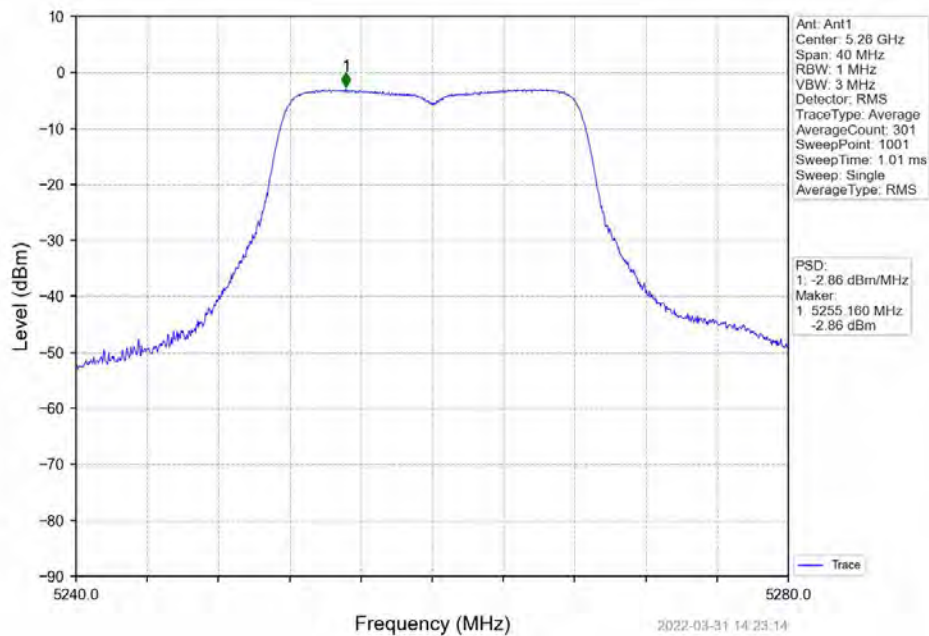
Test Graphs



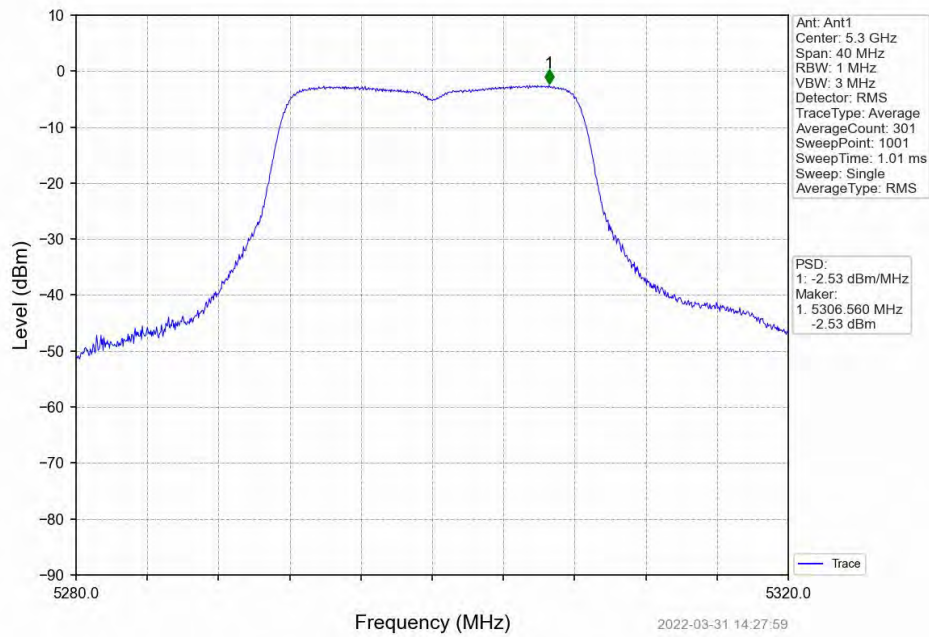
802.11a_HCH_5240MHz_Ant1_NTNV



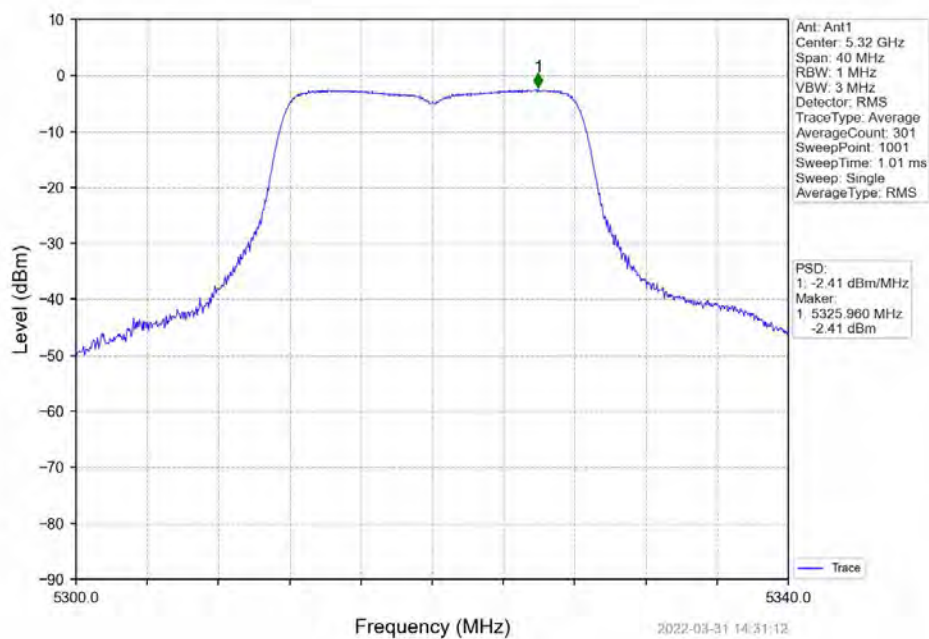
802.11a_LCH_5260MHz_Ant1_NTNV



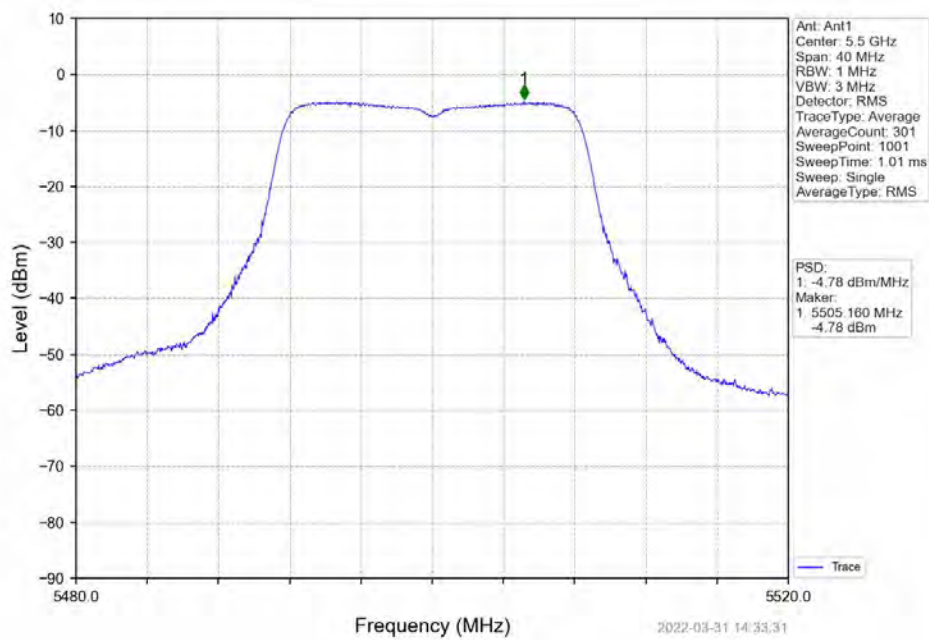
802.11a_MCH_5300MHz_Ant1_NTNV



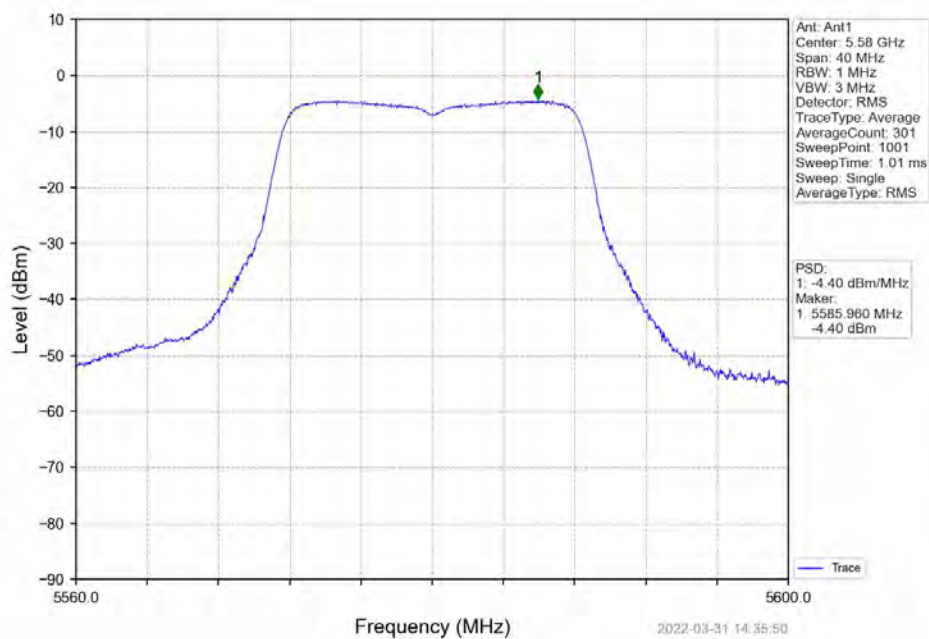
802.11a_HCH_5320MHz_Ant1_NTNV



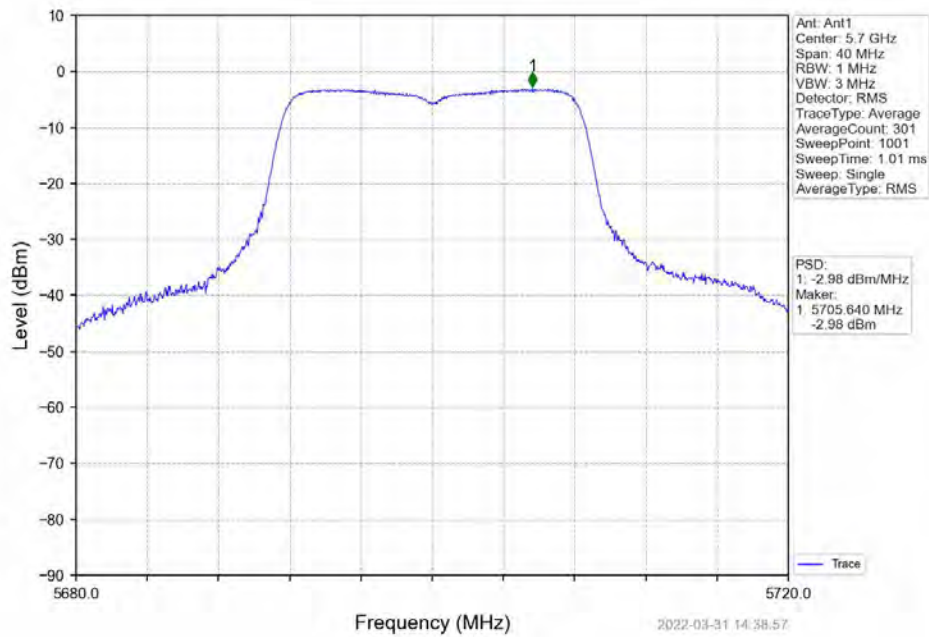
802.11a_LCH_5500MHz_Ant1_NTNV



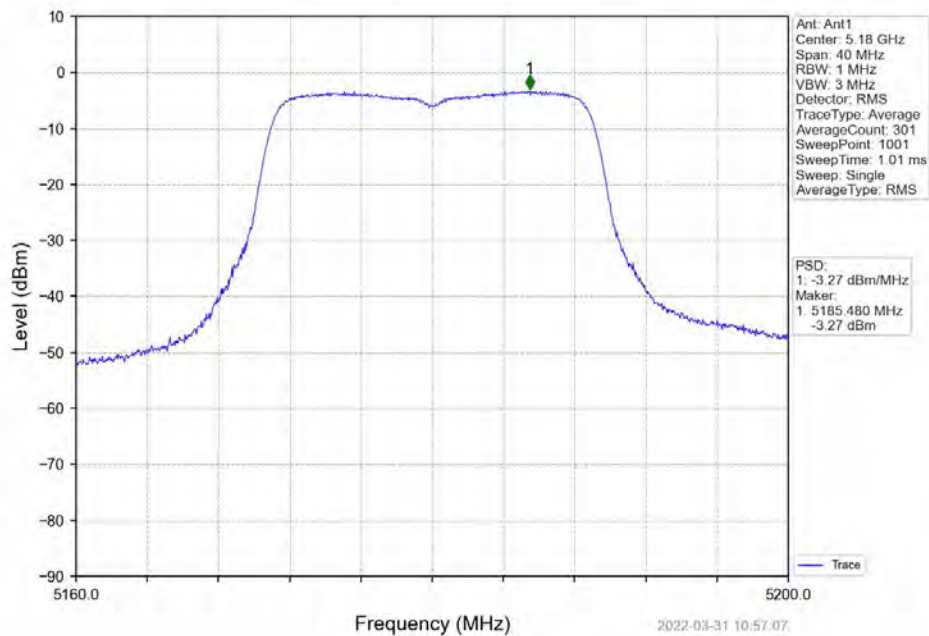
802.11a_MCH_5580MHz_Ant1_NTNV



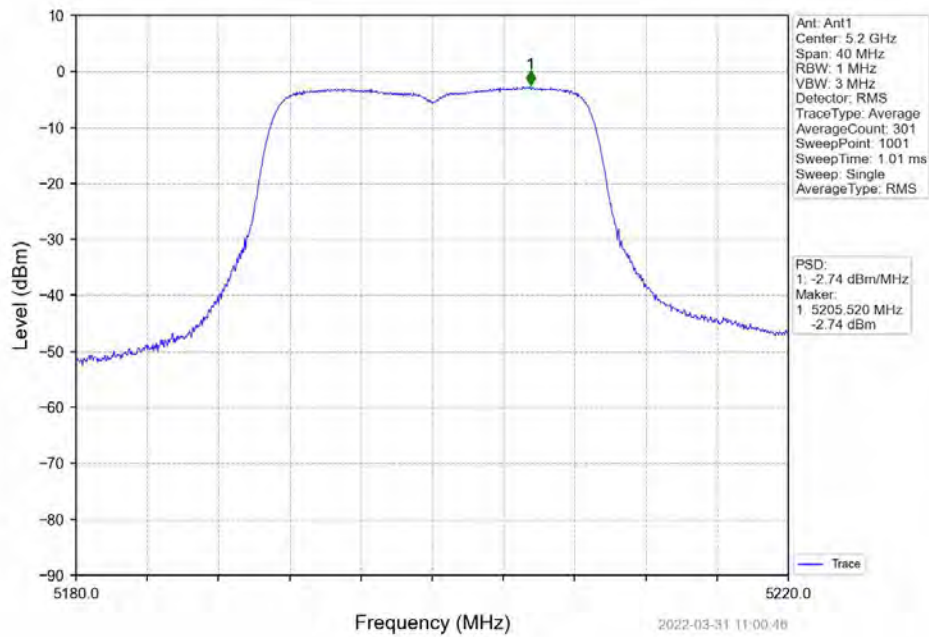
802.11a_HCH_5700MHz_Ant1_NTNV



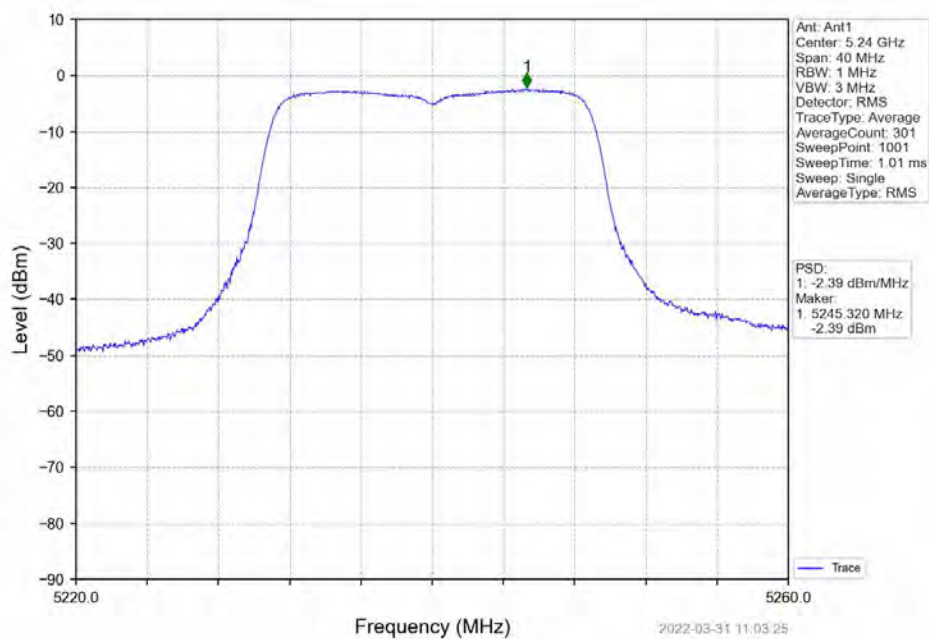
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



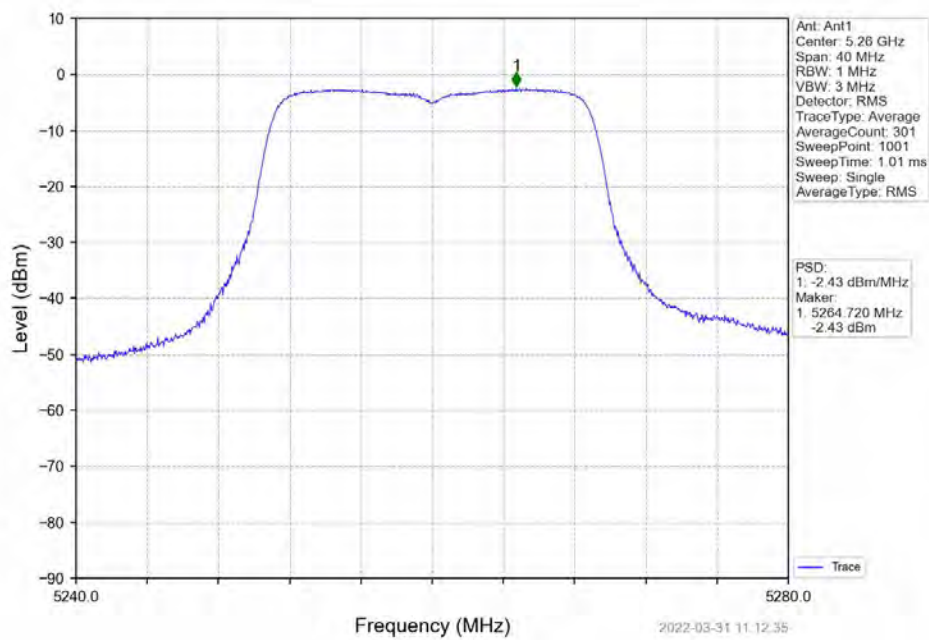
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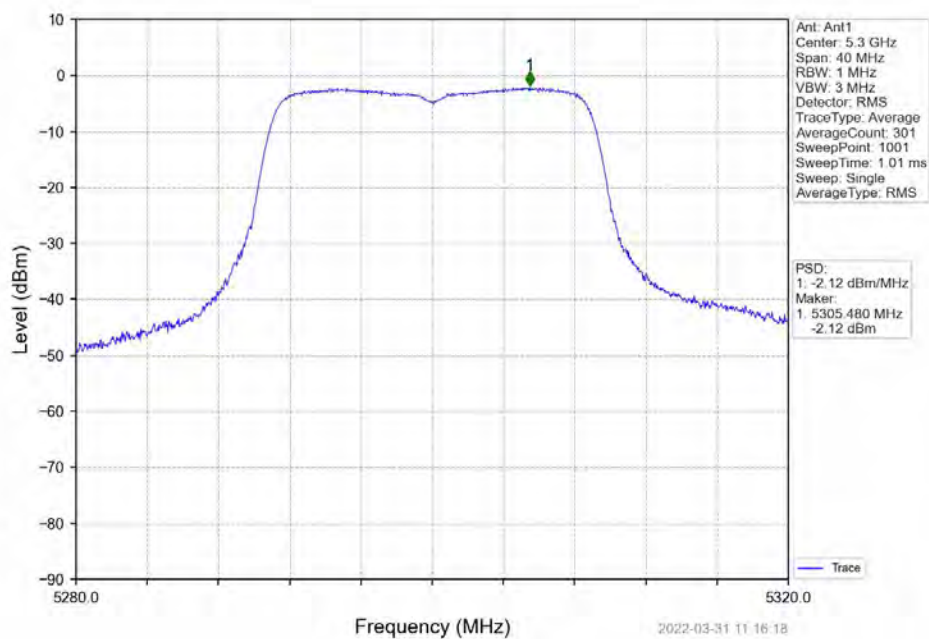
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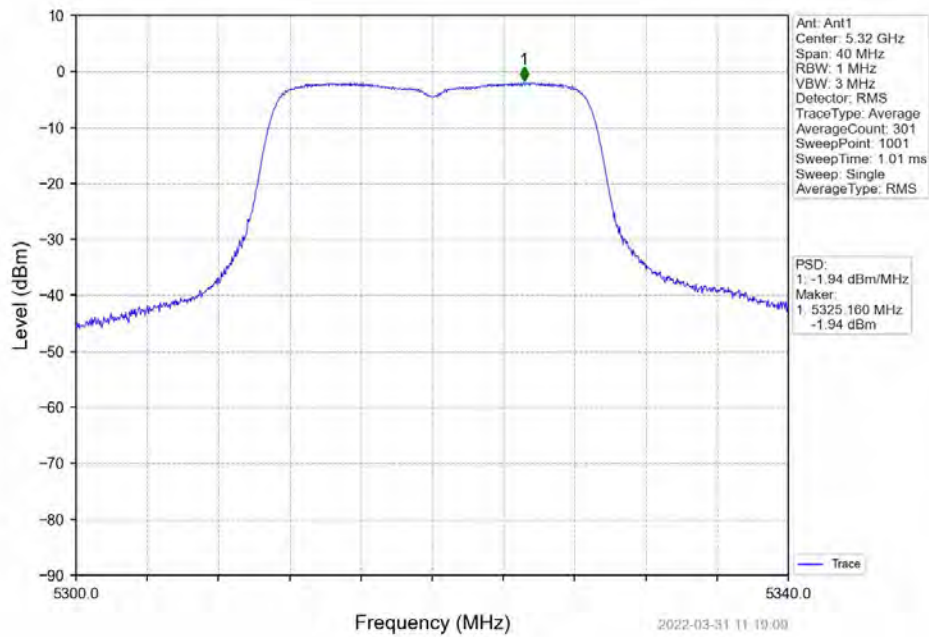
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



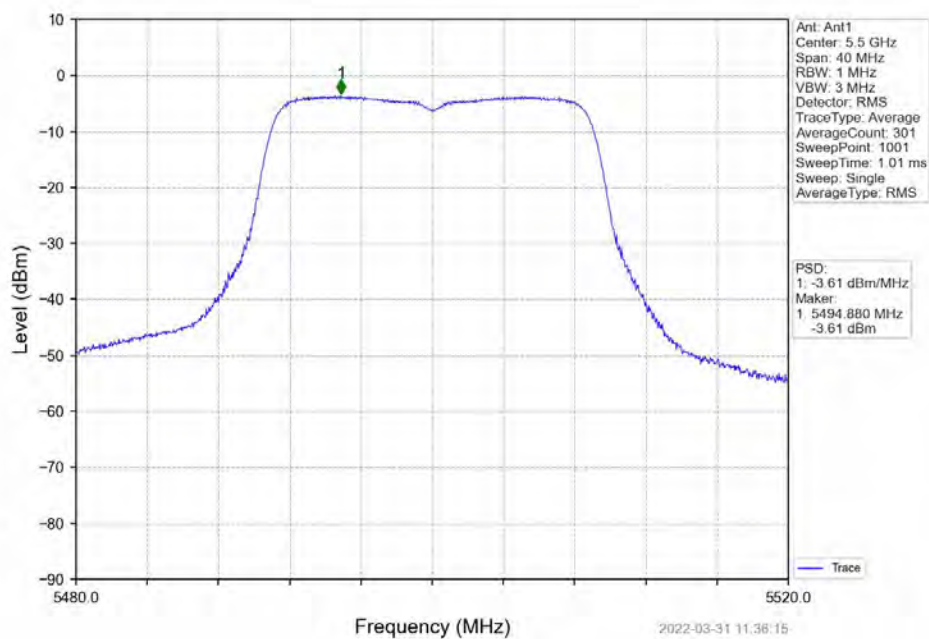
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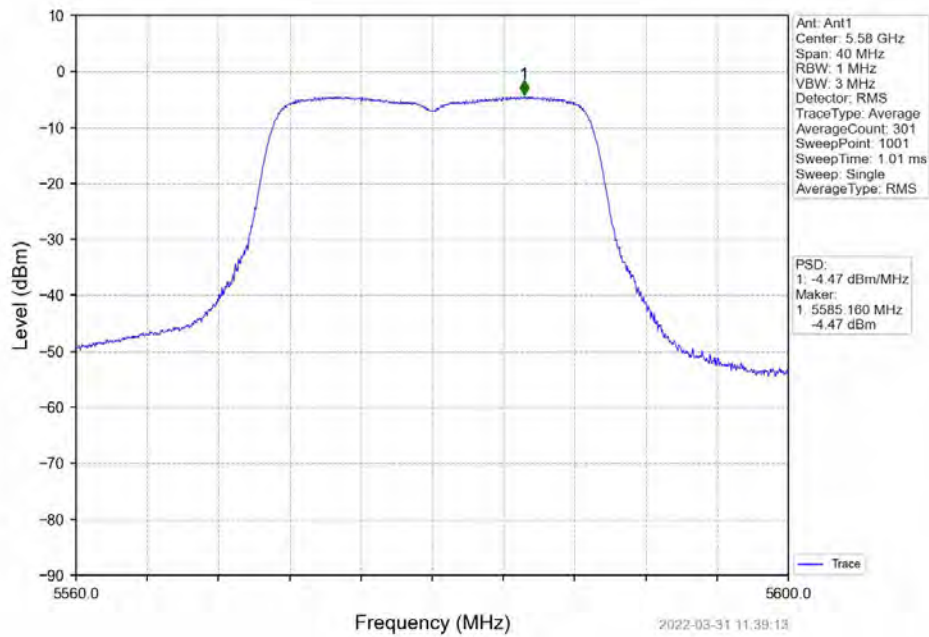
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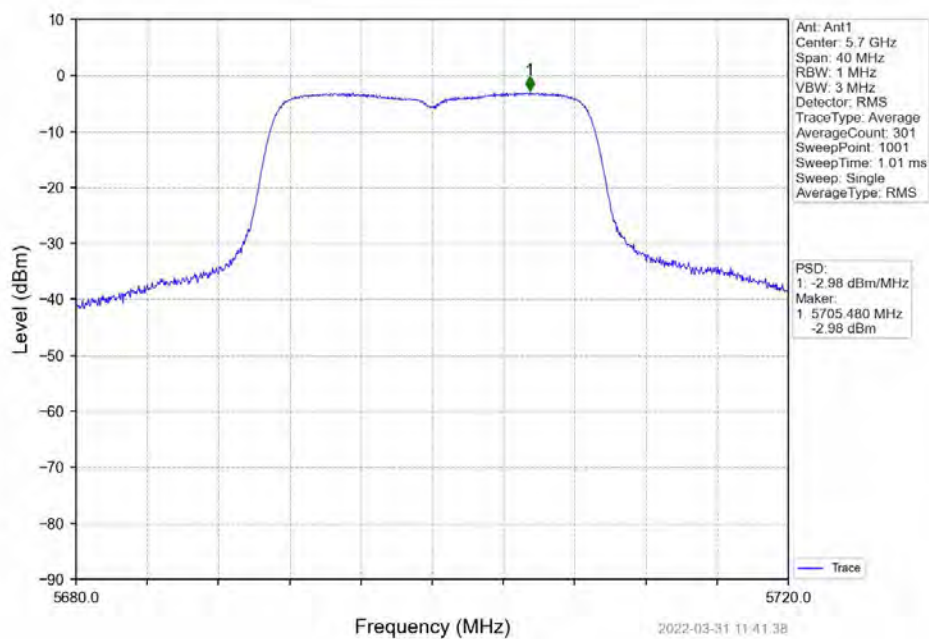
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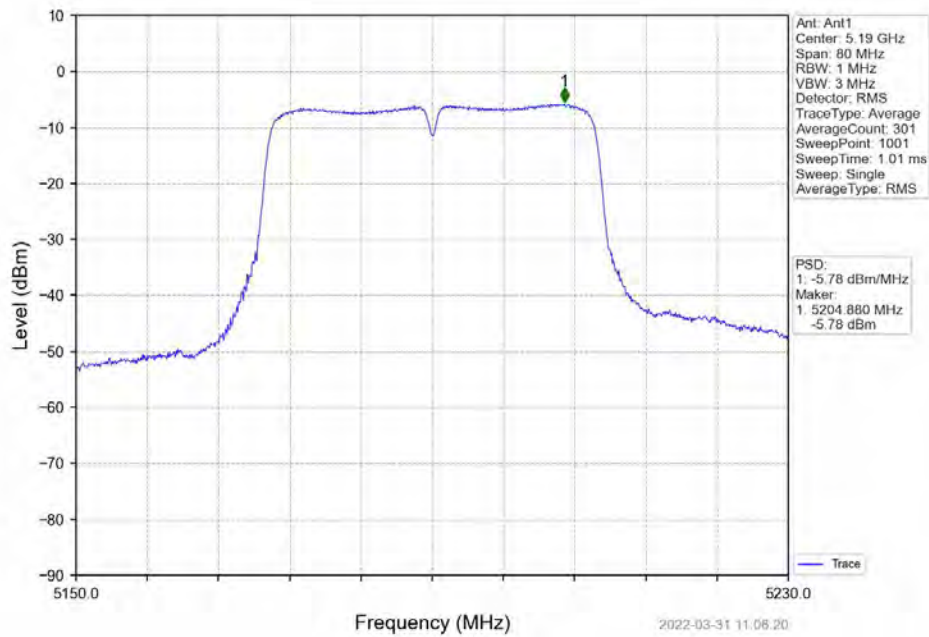
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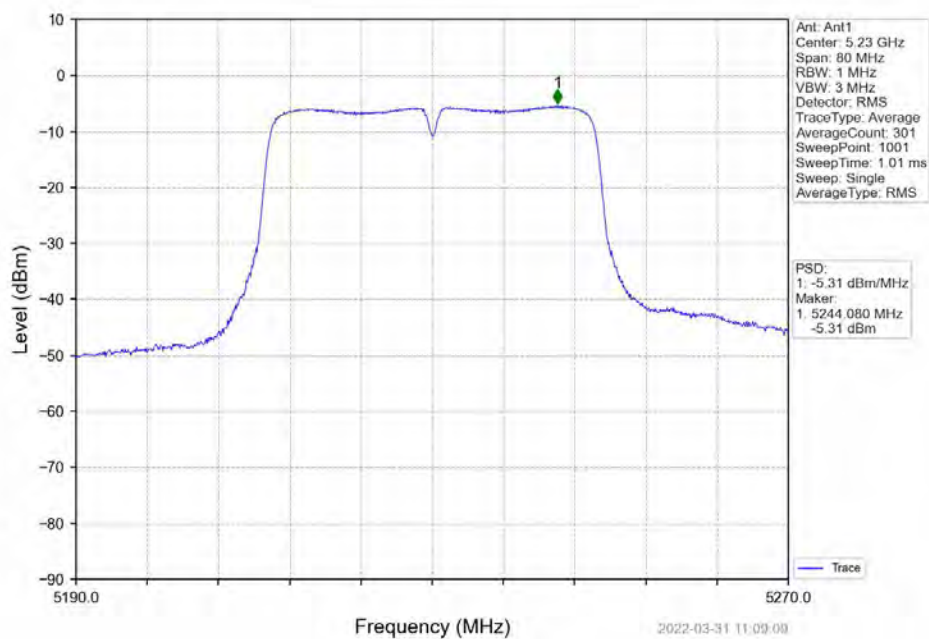
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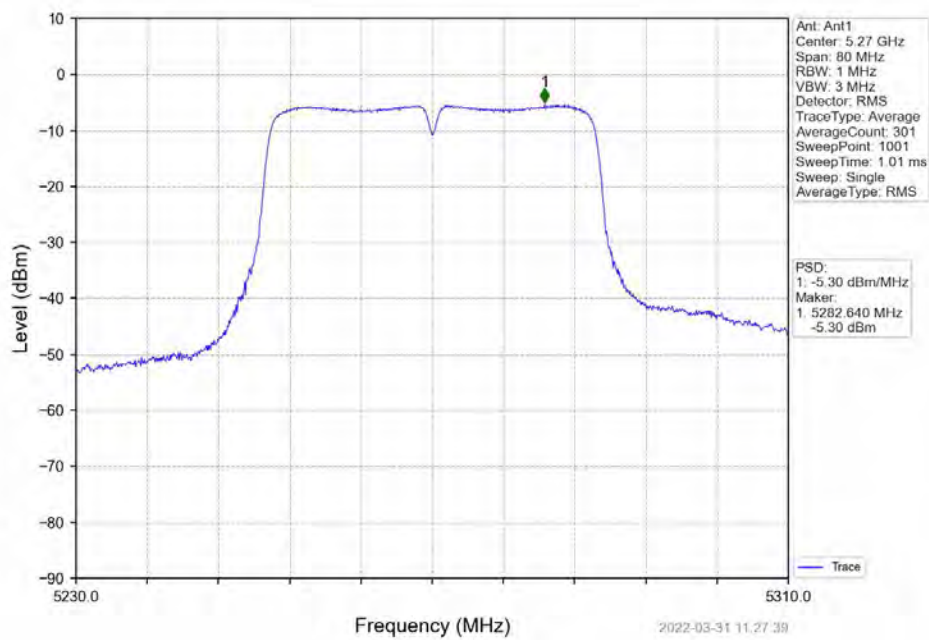
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



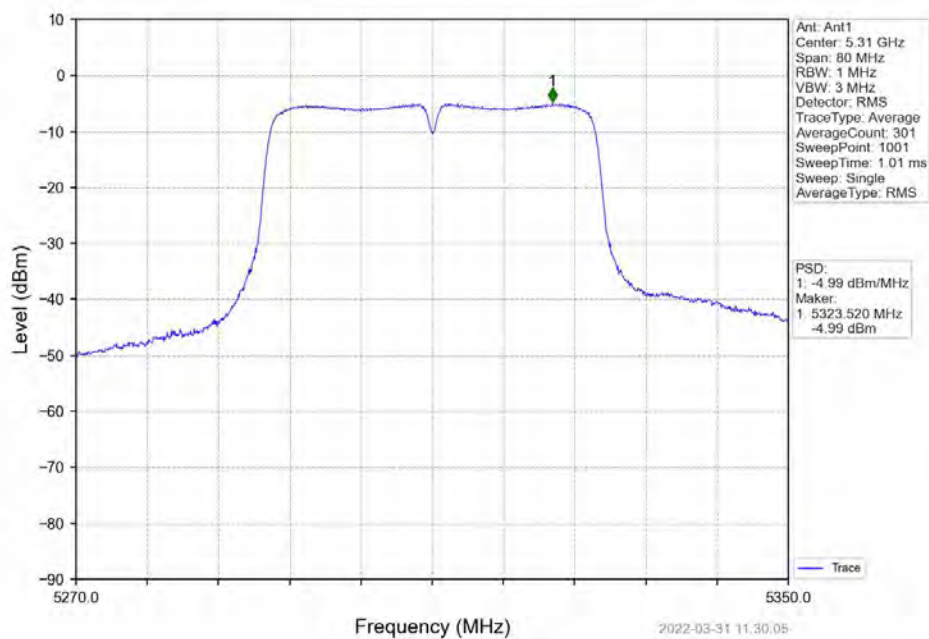
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



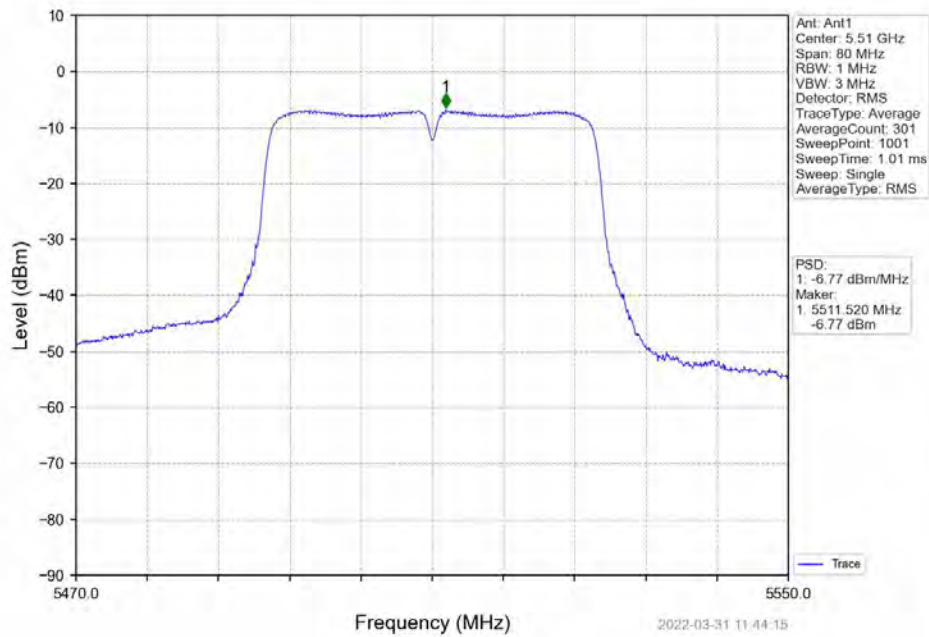
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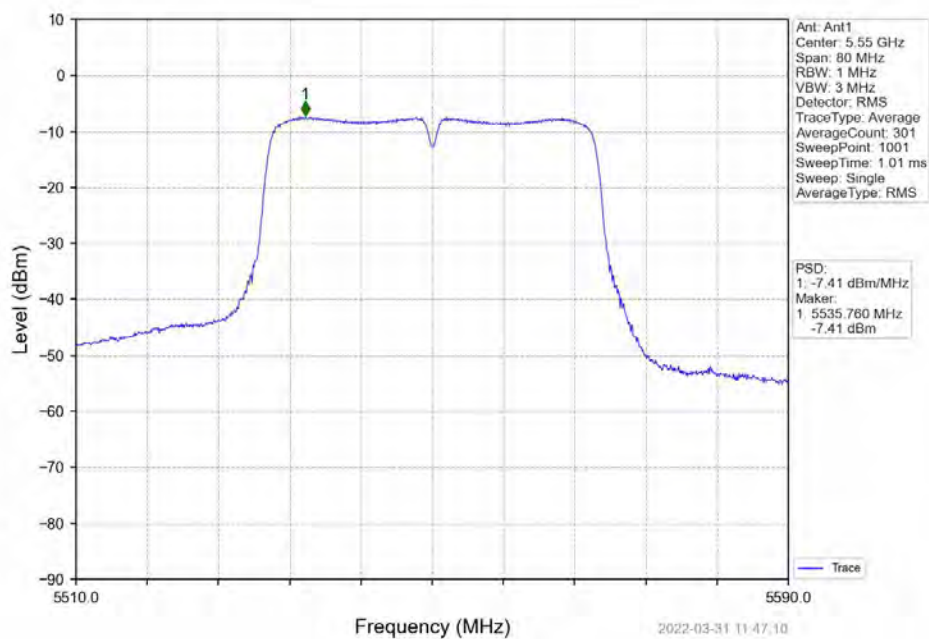
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



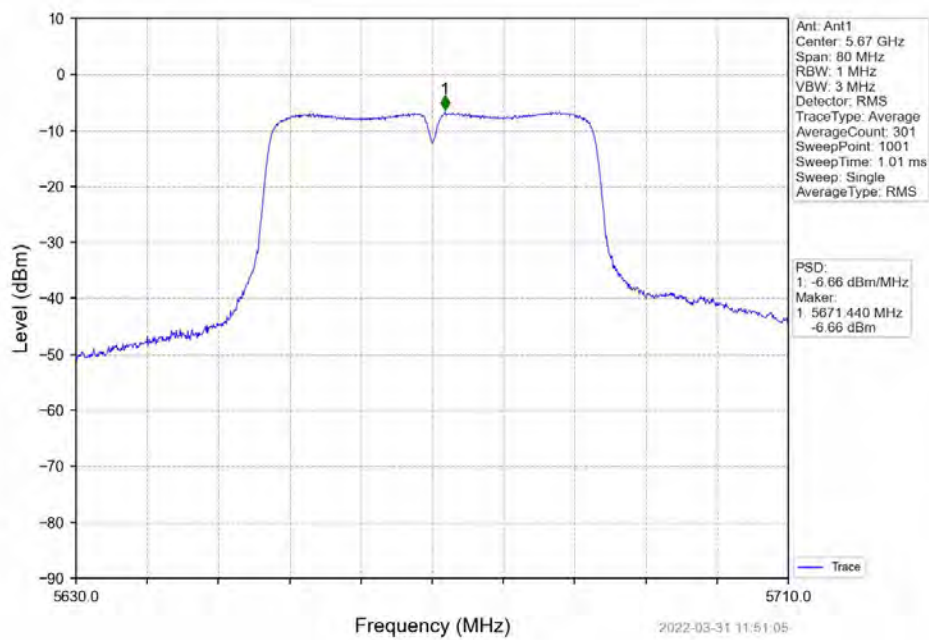
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



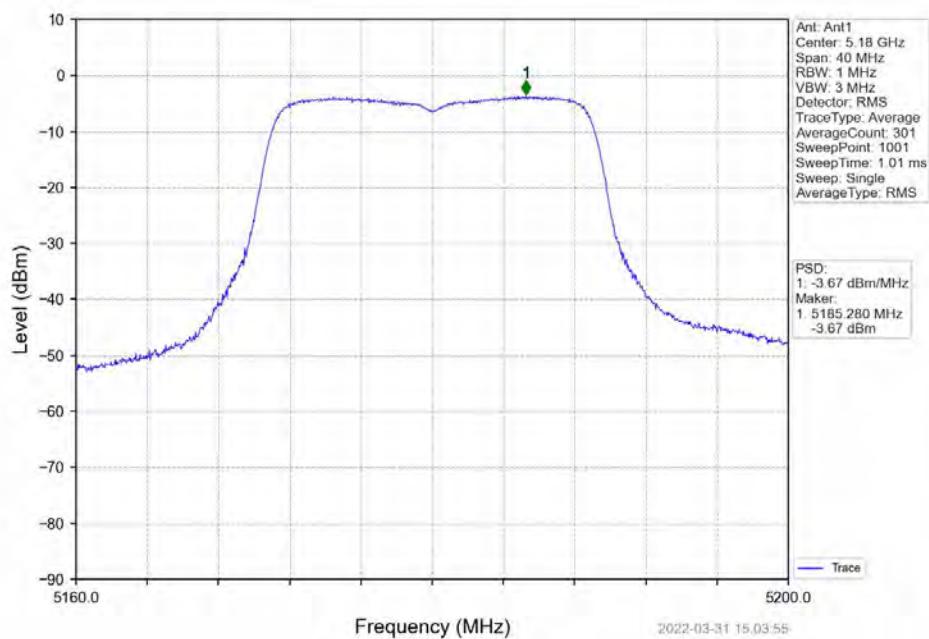
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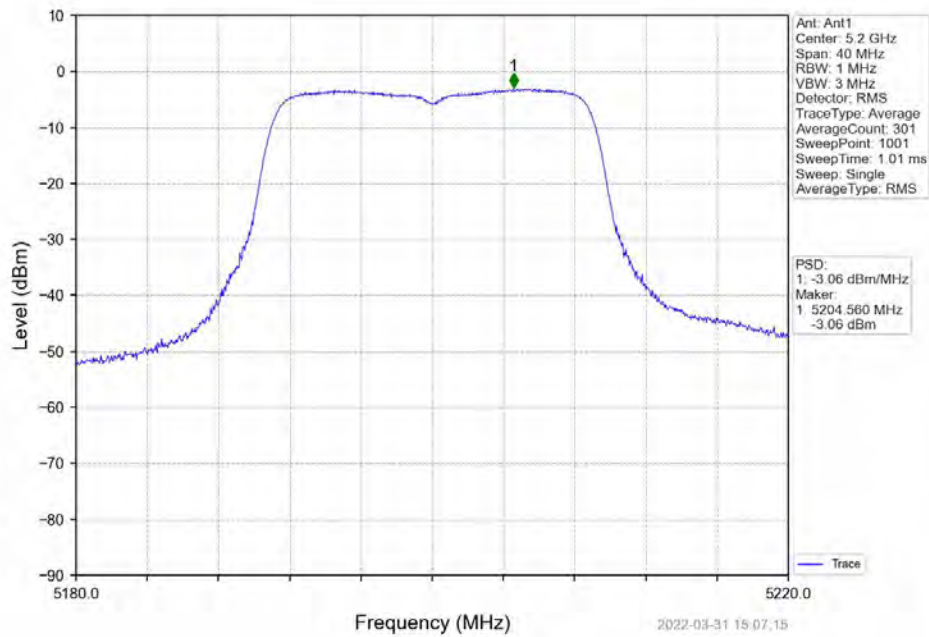
802.11n(HT40) HCH 5670MHz_Ant1_NTNV



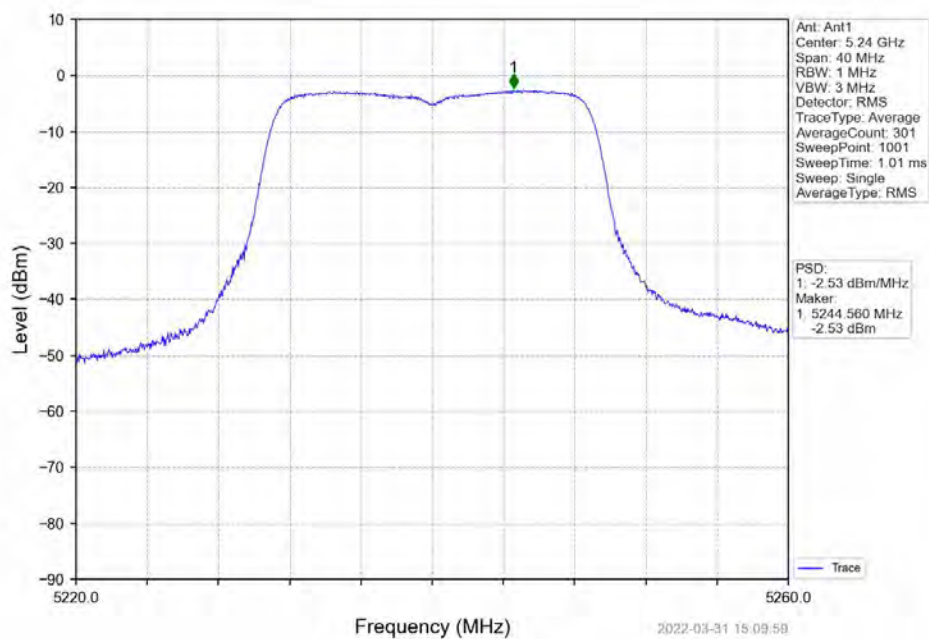
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



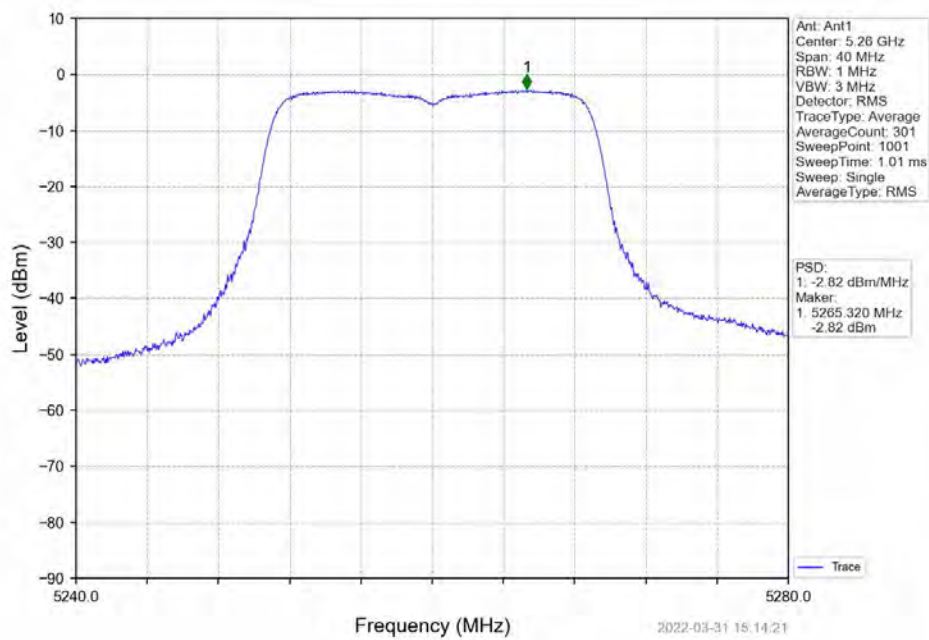
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20) LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20) MCH_5300MHz_Ant1_NTNV

