

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 1 of 133

TEST REPORT

Application No.: FYCR2212000519AT
Applicant: WeHome Technology Company Limited
Address of Applicant: Room 12A, Kiu Fu Comm Building, 300 Lockhart Road, Wan Chai Hong Kong
Manufacturer: Fuzhi Technology (Shenzhen) Co., Ltd.
Address of Manufacturer: Room 302-303, 3rd Floor, Building 10, Qianhai Shengang Youth Dreamworks, No. 35 Qianwan 1st Road, Qianhai-Hong Kong Cooperation Zone, Shenzhen
Factory: Shenzhen Zowee Smart Manufacturing Co., Ltd.
Address of Factory: Factory 1, Factory 2-3 and Dormitory No.1 & Dormitory No.2, No.149, Tangxiachong Second Industrial Road, Tangxiachong Community, Yanluo Street, Bao'an District, Shenzhen City, Guangdong

Equipment Under Test (EUT):

EUT Name: EBO X Family Companion Robot
Model No.: EBO X
Trade Mark: Enabot
FCC ID: 2AUR8-EBOX01
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-12-21
Date of Test: 2023-03-09 to 2023-03-16
Date of Issue: 2023-03-21

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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Compliance Certification Services (Kunshan) Inc.
Shenzhen Branch

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-03-21		Original

Authorized for issue by:			
		<i>Tree Zhan</i>	

		Tree Zhan/Project Engineer	
		<i>Winkey Wang</i>	

		Winkey Wang/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Charged by charging panel via AC adapter AC Adapter information Model: K36V190180J Input: 100-240V~ 50/60Hz 0.9A Output: 19.0V 1.8A Rechargeable Li-ion Battery pack information Model: B0750 Nominal voltage: 10.8V Rated Capacity: 2400mAh/25.92Wh
Operation Frequency (20MHz):	U-NII-1: 5180MHz-5240MHz
Operation Frequency (40MHz):	U-NII-1: 5190MHz-5230MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz
Channel number (20MHz):	U-NII-1: 4
Channel number (40MHz):	U-NII-1: 2
Channel number (80MHz):	U-NII-1: 1
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	U-NII-1: 4.21dBi

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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Duty Cycle	± 0.3%
99% Bandwidth	± 0.3%
26dB Emission bandwidth	± 0.3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 0.3%
Maximum Conducted output power	± 0.8dB
Peak Power spectrum density	± 0.4dB
Radiated Emissions (Above 1GHz)	± 4.4dB (Above 1GHz)
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Frequency Stability	± 5.4 x 10-8
Radiated Emissions (Below 1GHz)	± 3.1dB (Below 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR/ETSI} (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2023/1/9	2024/1/8
Coaxial Cable	CCS	N/A	SEM033-02	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

26dB Emission bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022/7/12	2023/7/11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022/7/12	2023/7/11
Barometer	DUMAI	DYM3	SEM002-24	2022/7/12	2023/7/11



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4.21dBi

Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 FR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar



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7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

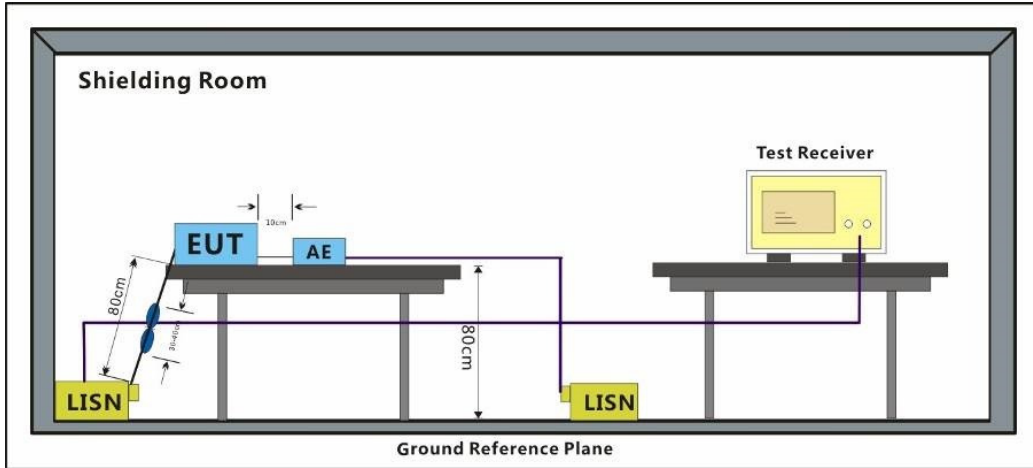


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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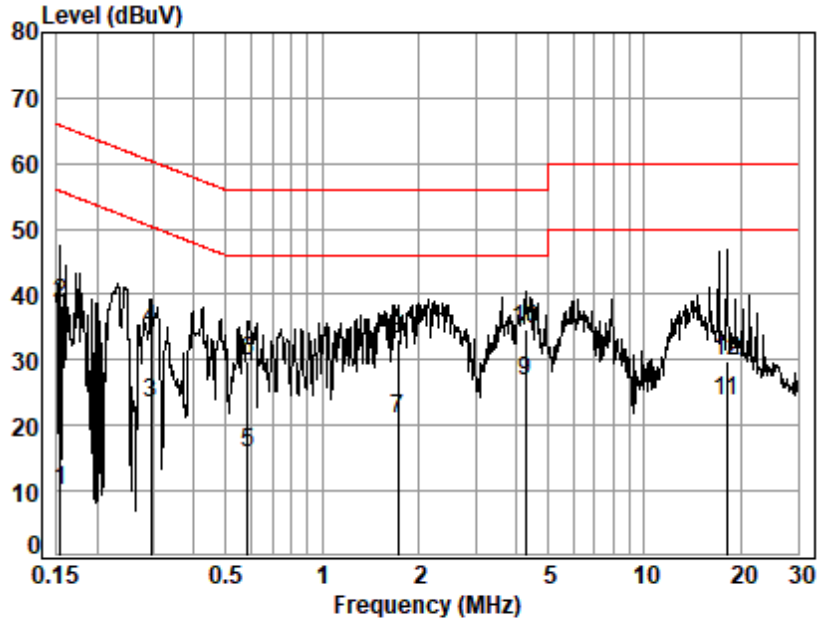
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Test Mode: 09; Line: Live line



Site : Shielding Room
 Condition: Line
 Job No. : 00519AT
 Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1540	0.02	9.82	0.10	9.94	55.78	-45.84 Average
2	0.1540	0.02	9.82	28.88	38.72	65.78	-27.06 QP
3	0.2940	0.03	9.78	13.59	23.40	50.41	-27.01 Average
4	0.2940	0.03	9.78	24.79	34.60	60.41	-25.81 QP
5	0.5854	0.04	9.85	5.90	15.79	46.00	-30.21 Average
6	0.5854	0.04	9.85	20.05	29.94	56.00	-26.06 QP
7	1.7253	0.01	9.87	11.19	21.07	46.00	-24.93 Average
8	1.7253	0.01	9.87	23.35	33.23	56.00	-22.77 QP
9	4.2692	0.03	9.85	16.94	26.82	46.00	-19.18 Average
10	4.2692	0.03	9.85	24.92	34.80	56.00	-21.20 QP
11	18.0394	0.06	9.83	13.99	23.88	50.00	-26.12 Average
12	18.0394	0.06	9.83	20.07	29.96	60.00	-30.04 QP



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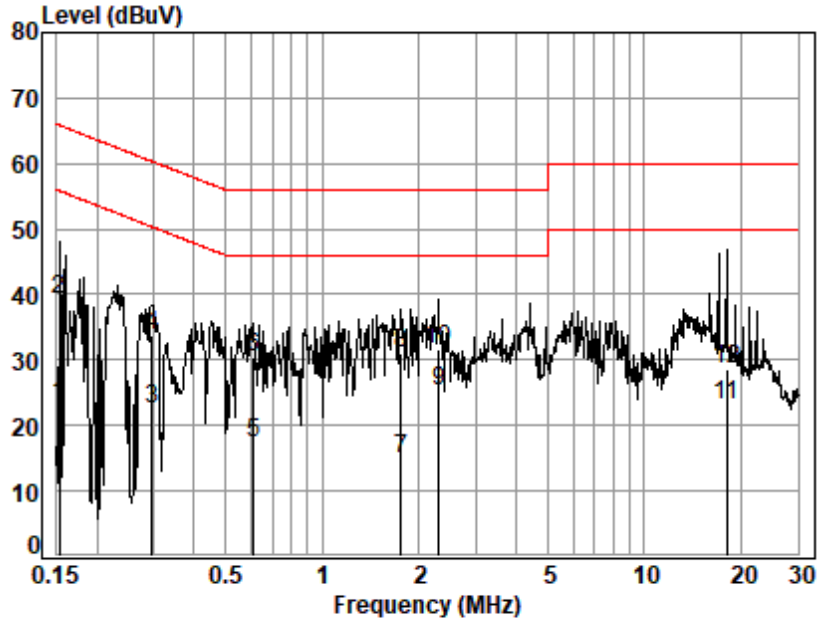
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Test Mode: 09; Line: Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 00519AT
 Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1532	0.02	9.86	13.23	55.82	-32.71	Average
2	0.1532	0.02	9.86	29.32	65.82	-26.62	QP
3	0.2955	0.03	9.82	12.69	50.37	-27.83	Average
4	0.2955	0.03	9.82	23.97	60.37	-26.55	QP
5	0.6140	0.04	9.83	7.33	46.00	-28.80	Average
6	0.6140	0.04	9.83	20.43	56.00	-25.70	QP
7	1.7529	0.01	9.84	5.17	46.00	-30.98	Average
8	1.7529	0.01	9.84	21.06	56.00	-25.09	QP
9	2.2968	0.01	9.82	15.30	46.00	-20.87	Average
10	2.2968	0.01	9.82	21.93	56.00	-24.24	QP
11	18.0394	0.06	9.82	13.19	50.00	-26.93	Average
12	18.0394	0.06	9.82	18.85	60.00	-31.27	QP



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
 Test Method: KDB 789033 II B 1

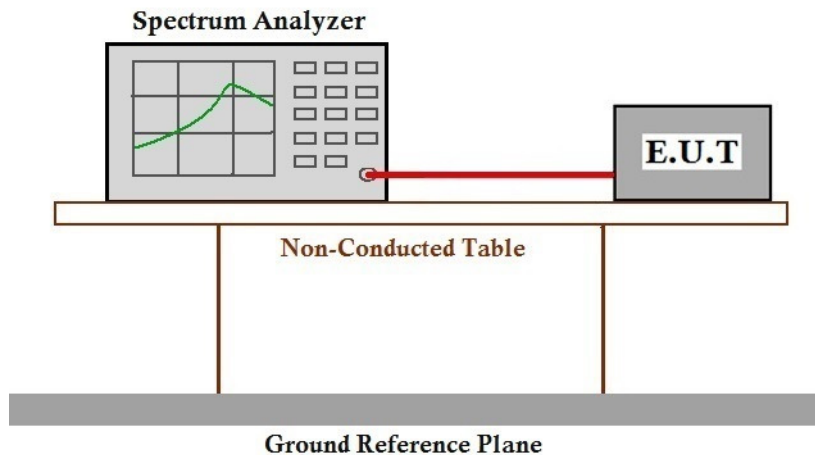
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.0 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 99% Bandwidth

Test Requirement N/A
 Test Method: KDB 789033 II D

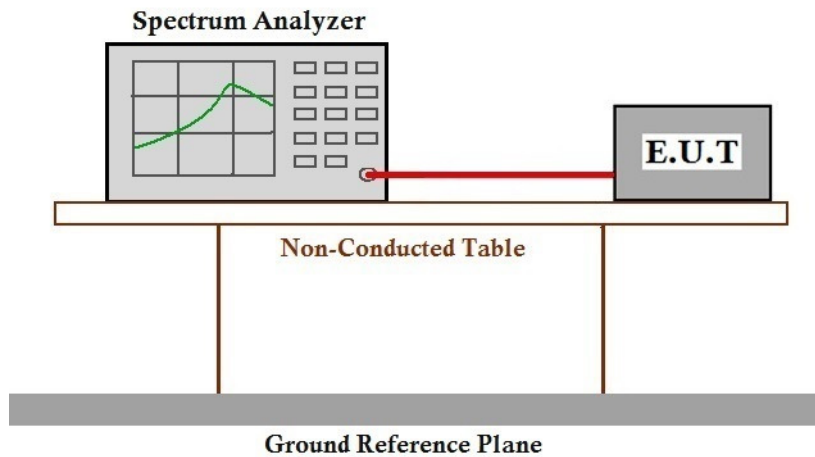
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.0 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

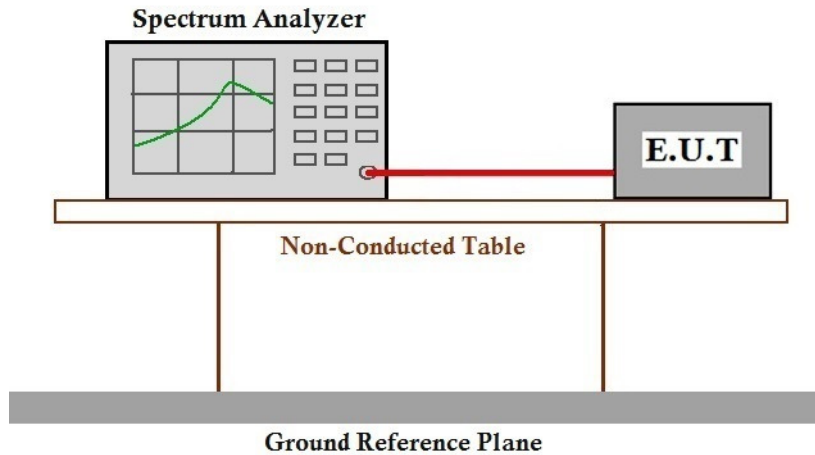
Operating Environment:

Temperature: 24.0 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

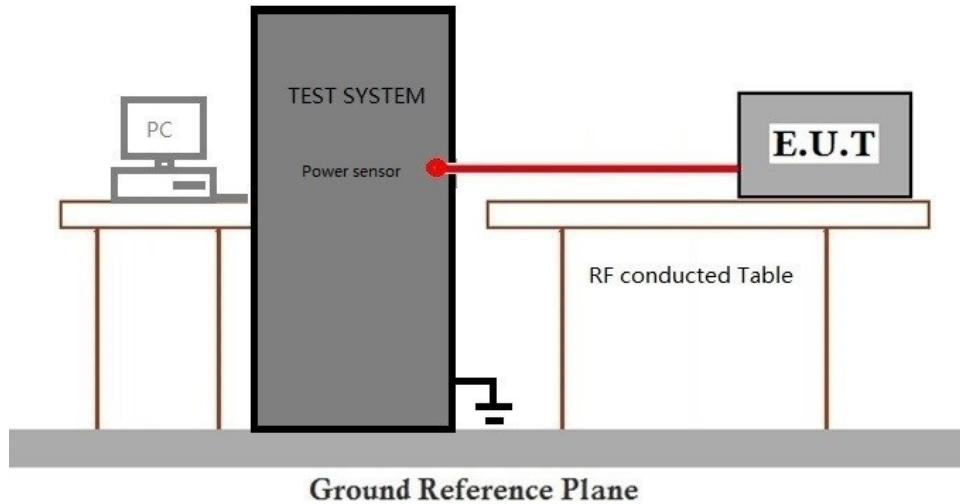
Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar



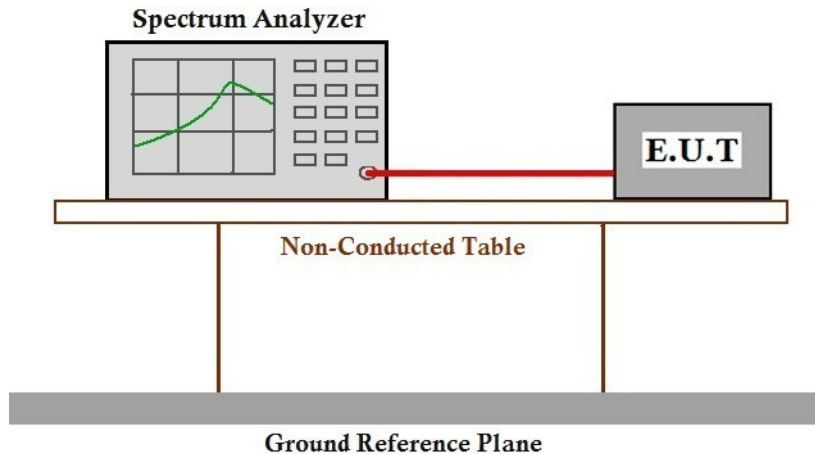
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7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) 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.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.</p>		

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all



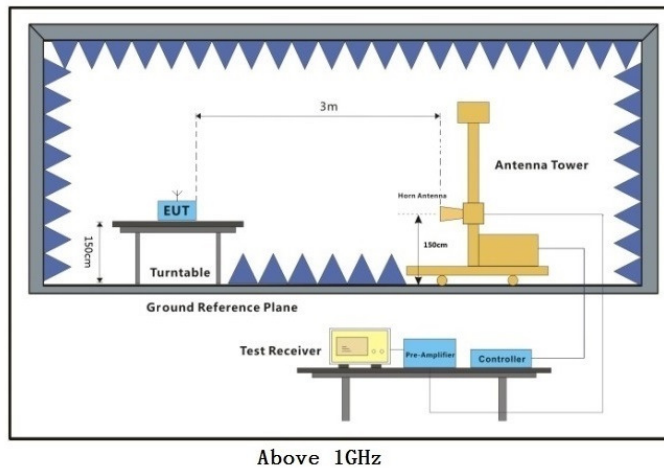
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		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	09	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



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7.7.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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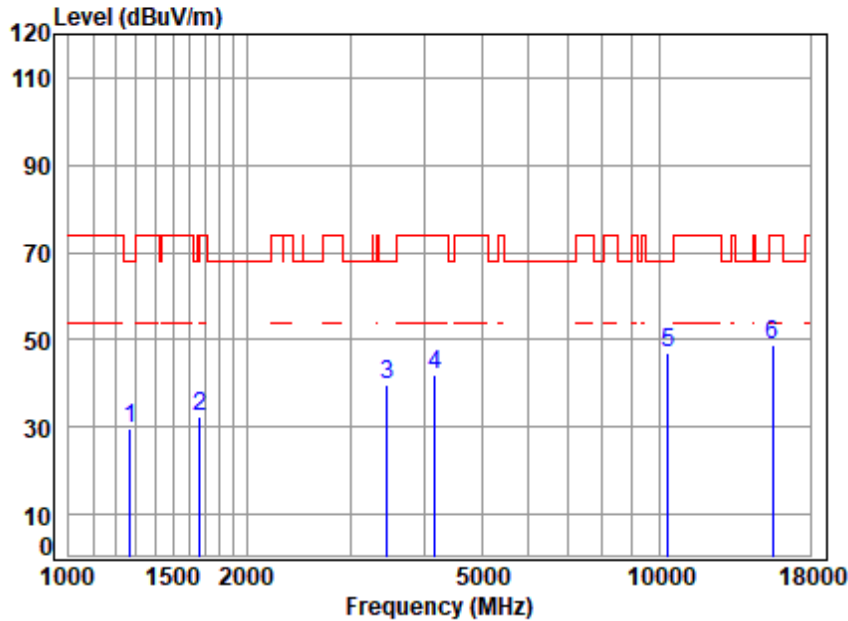
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 29 of 133

Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.31	24.26	52.71	54.79	29.65	68.20	-38.55	peak
2	1667.951	4.13	24.94	52.94	56.20	32.33	74.00	-41.67	peak
3	3465.510	6.91	28.69	52.95	56.85	39.50	68.20	-28.70	peak
4	4169.698	7.48	29.75	52.86	57.59	41.96	74.00	-32.04	peak
5	10360.000	11.08	38.85	53.35	50.36	46.94	68.20	-21.26	peak
6	15540.000	13.49	39.74	53.43	48.96	48.76	74.00	-25.24	peak



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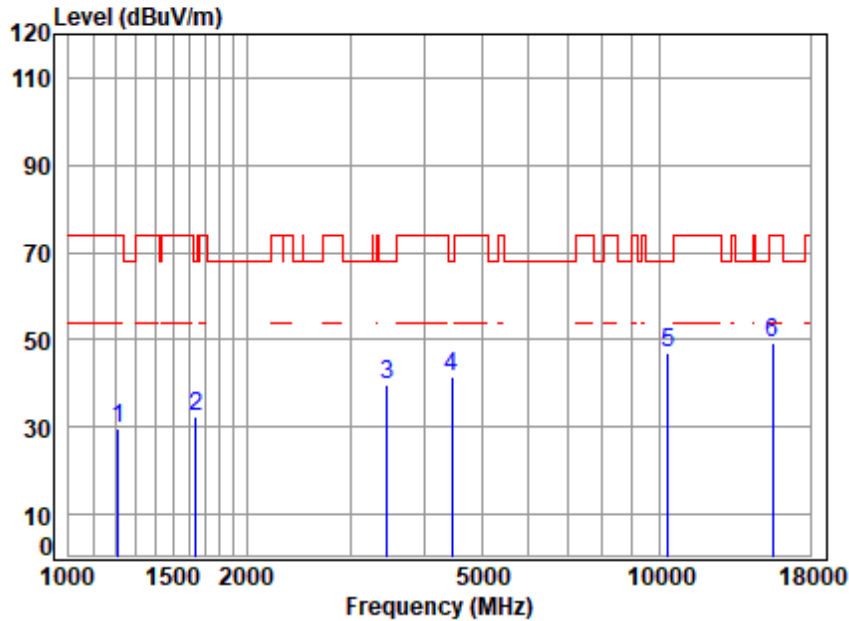
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 30 of 133

Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	3.18	24.29	52.67	54.96	29.76	74.00	-44.24	peak
2	1644.019	4.08	24.89	52.93	56.53	32.57	68.20	-35.63	peak
3	3465.510	6.91	28.69	52.95	57.19	39.84	68.20	-28.36	peak
4	4456.315	7.47	30.14	52.95	57.04	41.70	68.20	-26.50	peak
5	10360.000	11.08	38.85	53.35	50.44	47.02	68.20	-21.18	peak
6	15540.000	13.49	39.74	53.43	49.46	49.26	74.00	-24.74	peak



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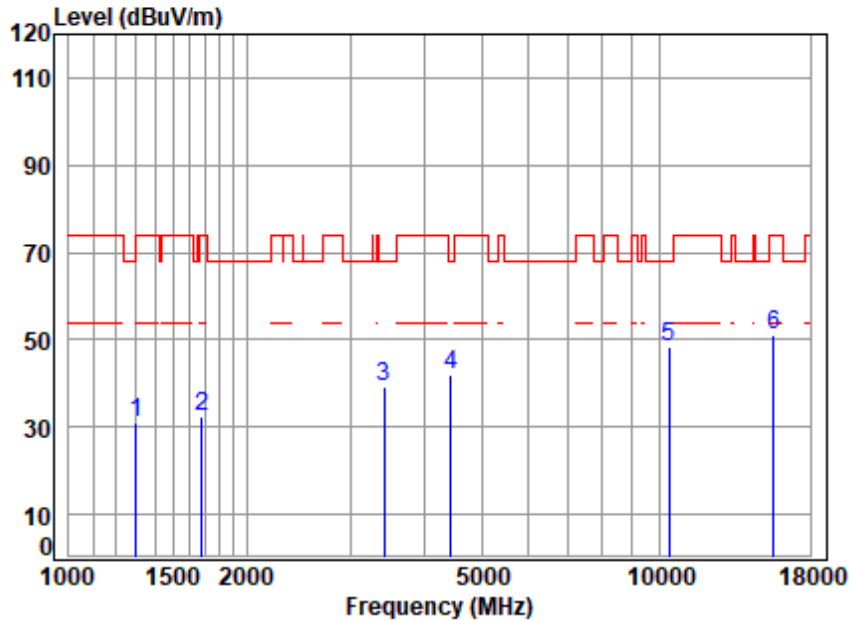
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	56.21	31.10	74.00	-42.90	peak
2	1682.477	4.16	24.97	52.95	56.29	32.47	74.00	-41.53	peak
3	3425.675	6.81	28.69	52.96	56.68	39.22	68.20	-28.98	peak
4	4430.628	7.47	30.11	52.94	57.13	41.77	68.20	-26.43	peak
5	10400.000	11.07	38.89	53.36	51.67	48.27	68.20	-19.93	peak
6	15600.000	13.50	39.53	53.40	51.33	50.96	74.00	-23.04	peak



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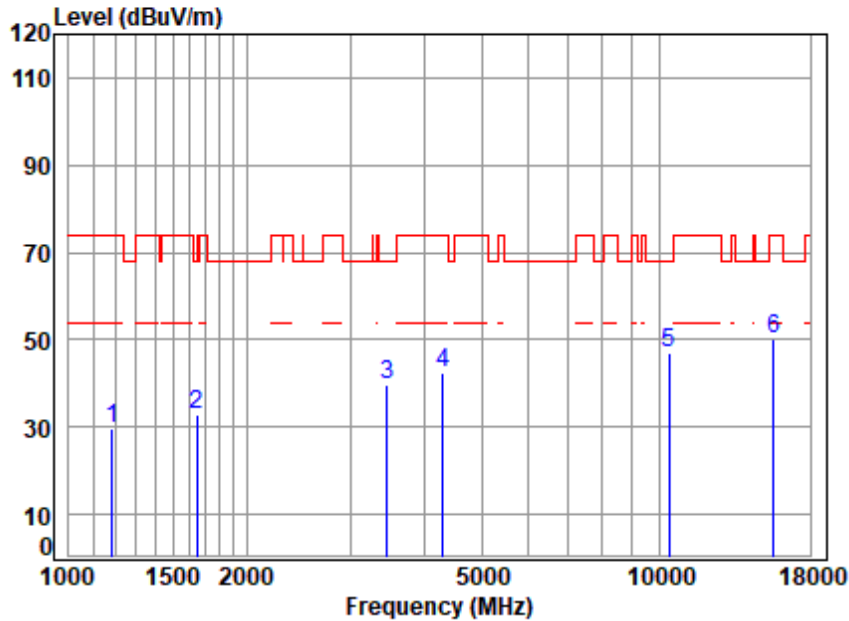
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 32 of 133

Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	3.12	24.29	52.65	55.12	29.88	74.00	-44.12	peak
2	1648.778	4.09	24.90	52.93	56.59	32.65	68.20	-35.55	peak
3	3465.510	6.91	28.69	52.95	56.96	39.61	68.20	-28.59	peak
4	4304.400	7.48	29.94	52.90	58.06	42.58	74.00	-31.42	peak
5	10400.000	11.07	38.89	53.36	50.54	47.14	68.20	-21.06	peak
6	15600.000	13.50	39.53	53.40	50.35	49.98	74.00	-24.02	peak



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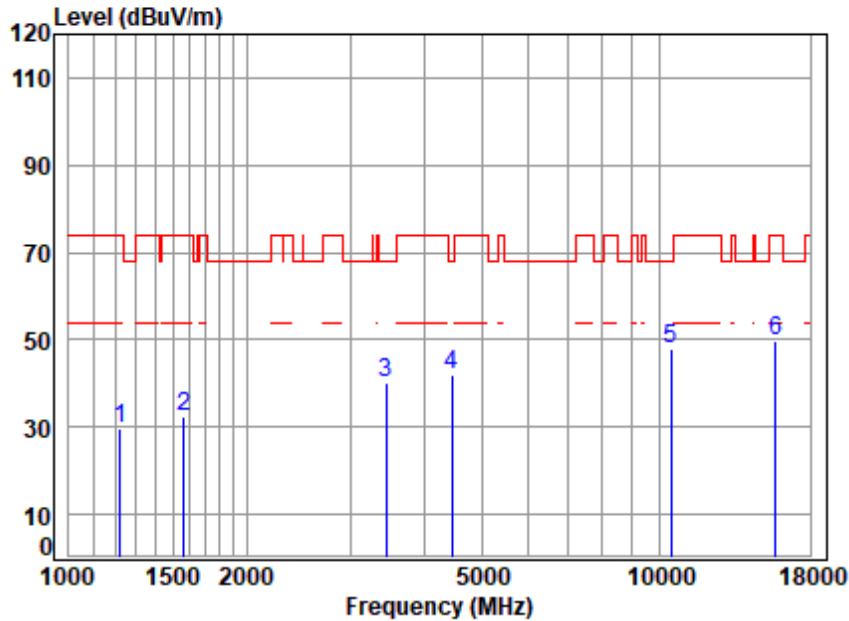
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

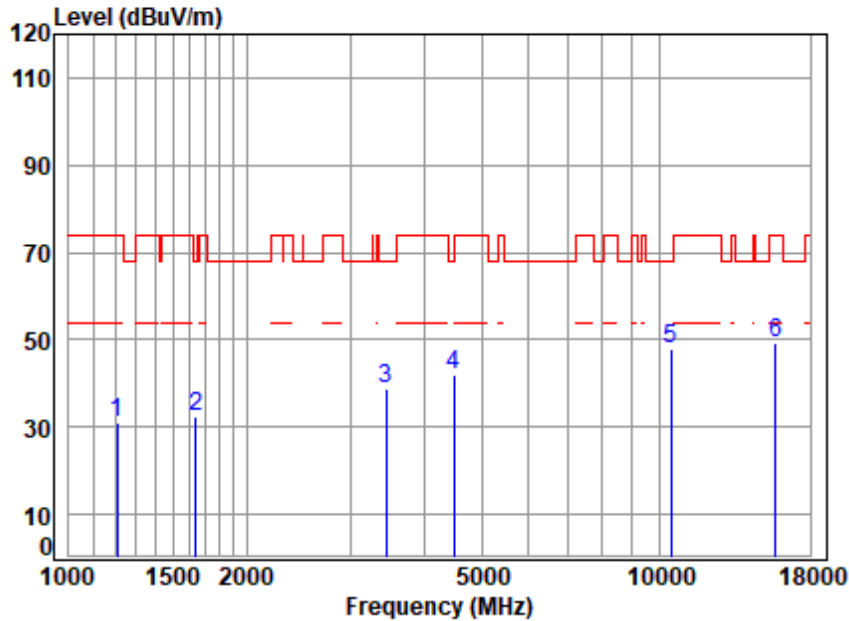
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.20	24.29	52.68	54.76	29.57	74.00	-44.43	peak
2	1569.721	3.92	24.71	52.89	56.55	32.29	74.00	-41.71	peak
3	3445.535	6.86	28.69	52.96	57.35	39.94	68.20	-28.26	peak
4	4456.315	7.47	30.14	52.95	57.47	42.13	68.20	-26.07	peak
5	10480.000	11.06	38.99	53.40	51.07	47.72	68.20	-20.48	peak
6	15720.000	13.50	39.13	53.34	50.41	49.70	74.00	-24.30	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	3.16	24.30	52.66	56.25	31.05	74.00	-42.95	peak
2	1644.019	4.08	24.89	52.93	56.37	32.41	68.20	-35.79	peak
3	3445.535	6.86	28.69	52.96	56.16	38.75	68.20	-29.45	peak
4	4482.150	7.47	30.18	52.95	57.11	41.81	68.20	-26.39	peak
5	10480.000	11.06	38.99	53.40	51.37	48.02	68.20	-20.18	peak
6	15720.000	13.50	39.13	53.34	50.15	49.44	74.00	-24.56	peak



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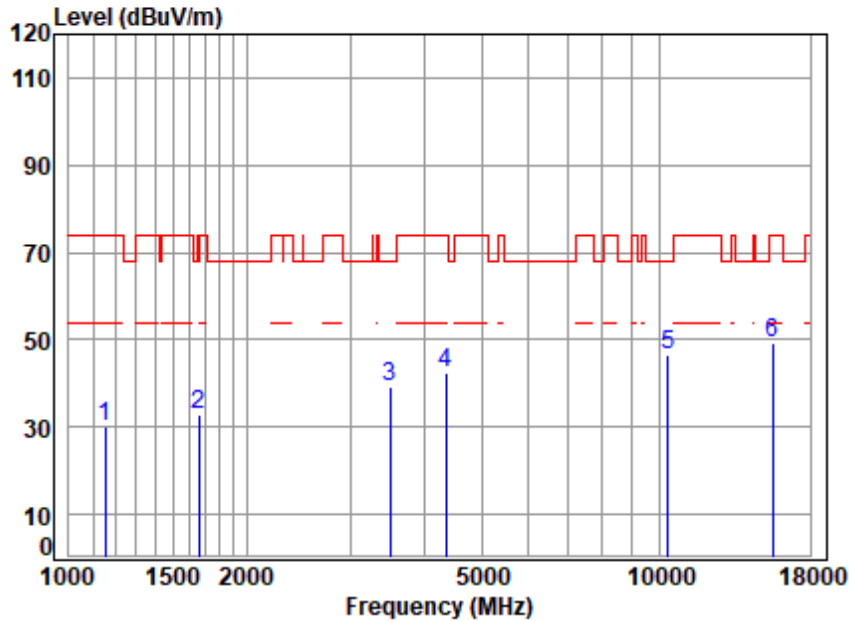
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Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11N20

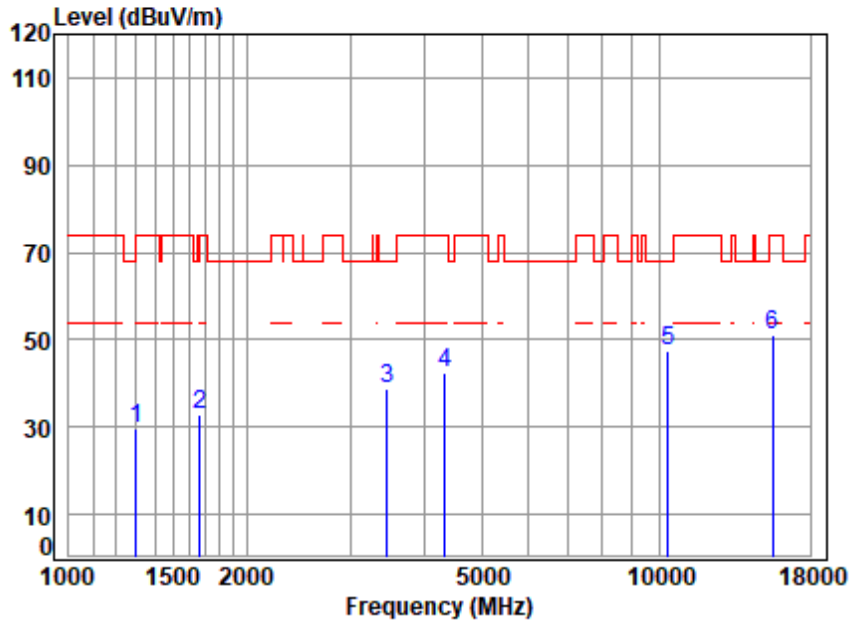
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	3.03	24.26	52.62	55.45	30.12	74.00	-43.88	peak
2	1663.137	4.12	24.93	52.94	56.58	32.69	74.00	-41.31	peak
3	3495.691	6.98	28.70	52.94	56.29	39.03	68.20	-29.17	peak
4	4354.454	7.48	30.00	52.91	57.84	42.41	74.00	-31.59	peak
5	10360.000	11.08	38.85	53.35	49.96	46.54	68.20	-21.66	peak
6	15540.000	13.49	39.74	53.43	49.36	49.16	74.00	-24.84	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	54.95	29.84	74.00	-44.16	peak
2	1667.951	4.13	24.94	52.94	56.66	32.79	74.00	-41.21	peak
3	3465.510	6.91	28.69	52.95	56.30	38.95	68.20	-29.25	peak
4	4329.354	7.48	29.97	52.91	57.71	42.25	74.00	-31.75	peak
5	10360.000	11.08	38.85	53.35	50.72	47.30	68.20	-20.90	peak
6	15540.000	13.49	39.74	53.43	51.42	51.22	74.00	-22.78	peak



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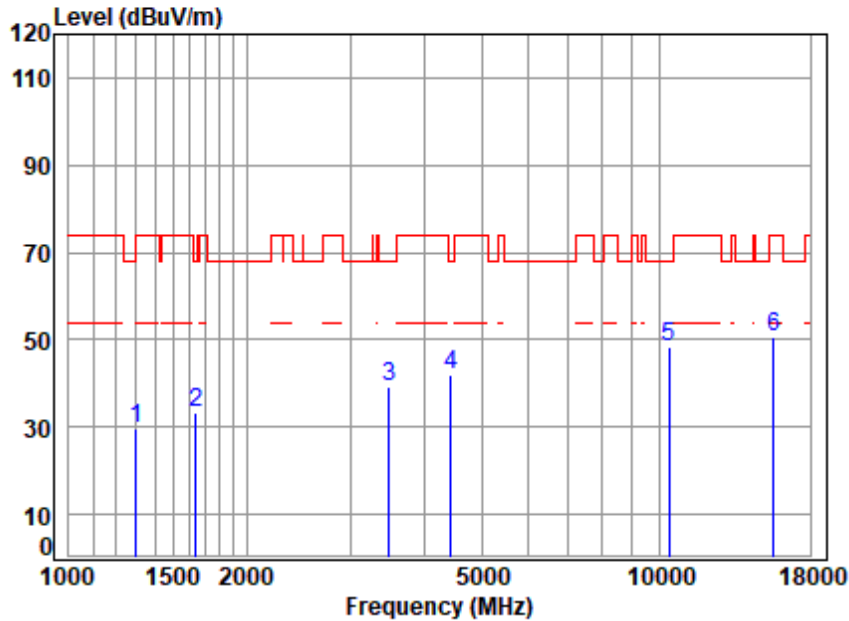
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	54.62	29.51	74.00	-44.49	peak
2	1644.019	4.08	24.89	52.93	57.08	33.12	68.20	-35.08	peak
3	3485.601	6.96	28.70	52.94	56.38	39.10	68.20	-29.10	peak
4	4443.453	7.47	30.12	52.94	57.27	41.92	68.20	-26.28	peak
5	10400.000	11.07	38.89	53.36	51.67	48.27	68.20	-19.93	peak
6	15600.000	13.50	39.53	53.40	50.88	50.51	74.00	-23.49	peak



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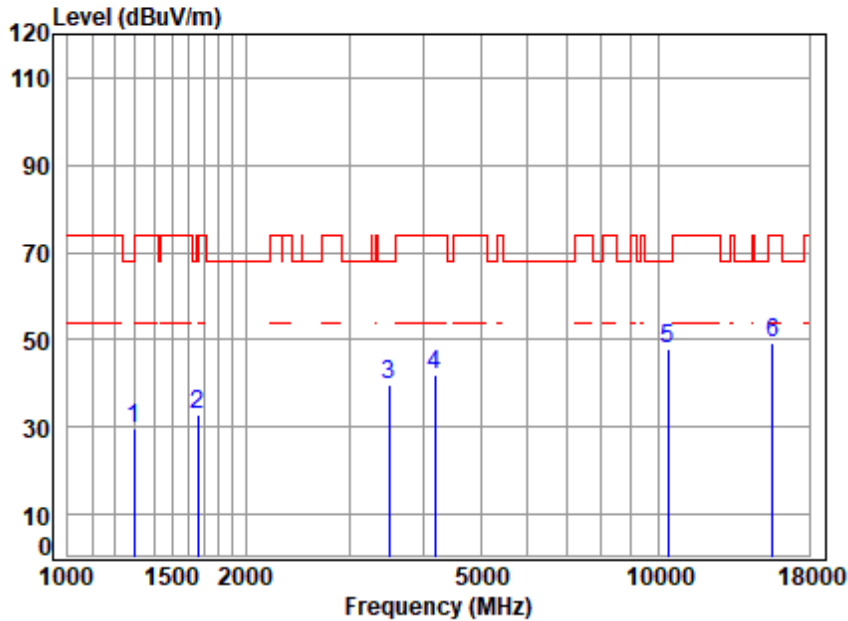
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 38 of 133

Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.36	24.25	52.73	54.73	29.61	68.20	-38.59	peak
2	1663.137	4.12	24.93	52.94	56.61	32.72	74.00	-41.28	peak
3	3495.691	6.98	28.70	52.94	56.77	39.51	68.20	-28.69	peak
4	4181.768	7.48	29.76	52.86	57.46	41.84	74.00	-32.16	peak
5	10400.000	11.07	38.89	53.36	51.50	48.10	68.20	-20.10	peak
6	15600.000	13.50	39.53	53.40	49.84	49.47	74.00	-24.53	peak



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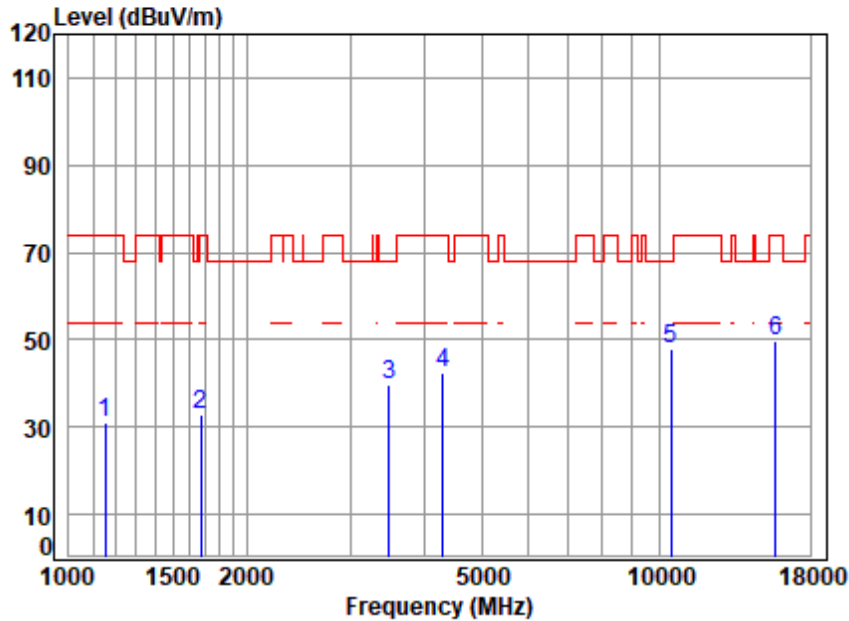
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11N20

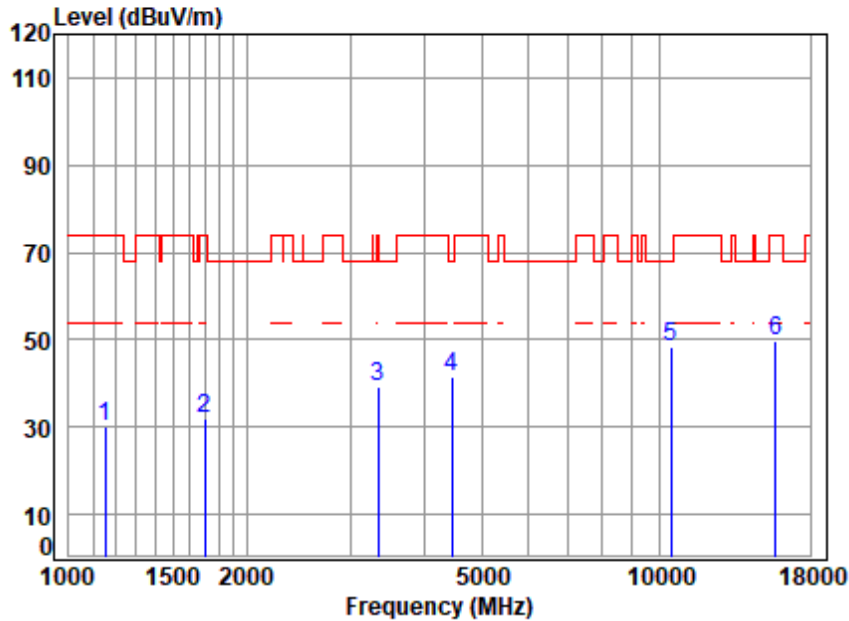
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	3.03	24.26	52.62	56.43	31.10	74.00	-42.90	peak
2	1672.779	4.14	24.95	52.95	56.62	32.76	74.00	-41.24	peak
3	3485.601	6.96	28.70	52.94	56.76	39.48	68.20	-28.72	peak
4	4304.400	7.48	29.94	52.90	57.69	42.21	74.00	-31.79	peak
5	10480.000	11.06	38.99	53.40	51.24	47.89	68.20	-20.31	peak
6	15720.000	13.50	39.13	53.34	50.43	49.72	74.00	-24.28	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	3.03	24.26	52.62	55.42	30.09	74.00	-43.91	peak
2	1702.042	4.20	25.01	52.96	55.91	32.16	74.00	-41.84	peak
3	3347.371	6.62	28.67	52.99	57.08	39.38	74.00	-34.62	peak
4	4456.315	7.47	30.14	52.95	56.96	41.62	68.20	-26.58	peak
5	10480.000	11.06	38.99	53.40	51.87	48.52	68.20	-19.68	peak
6	15720.000	13.50	39.13	53.34	50.25	49.54	74.00	-24.46	peak



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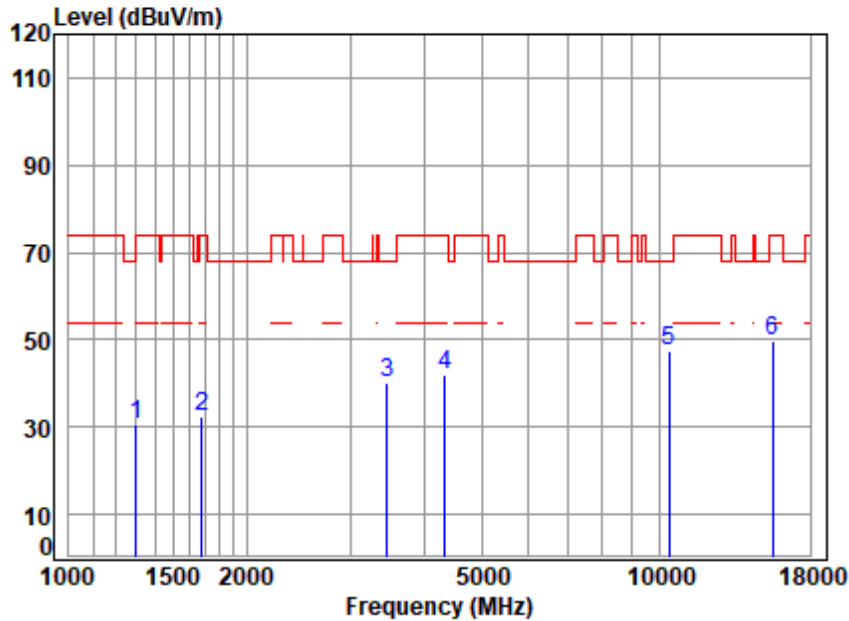
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5190 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	55.46	30.35	74.00	-43.65	peak
2	1682.477	4.16	24.97	52.95	56.18	32.36	74.00	-41.64	peak
3	3455.508	6.88	28.69	52.95	57.49	40.11	68.20	-28.09	peak
4	4329.354	7.48	29.97	52.91	57.35	41.89	74.00	-32.11	peak
5	10380.000	11.07	38.87	53.36	50.93	47.51	68.20	-20.69	peak
6	15570.000	13.49	39.64	53.41	49.93	49.65	74.00	-24.35	peak



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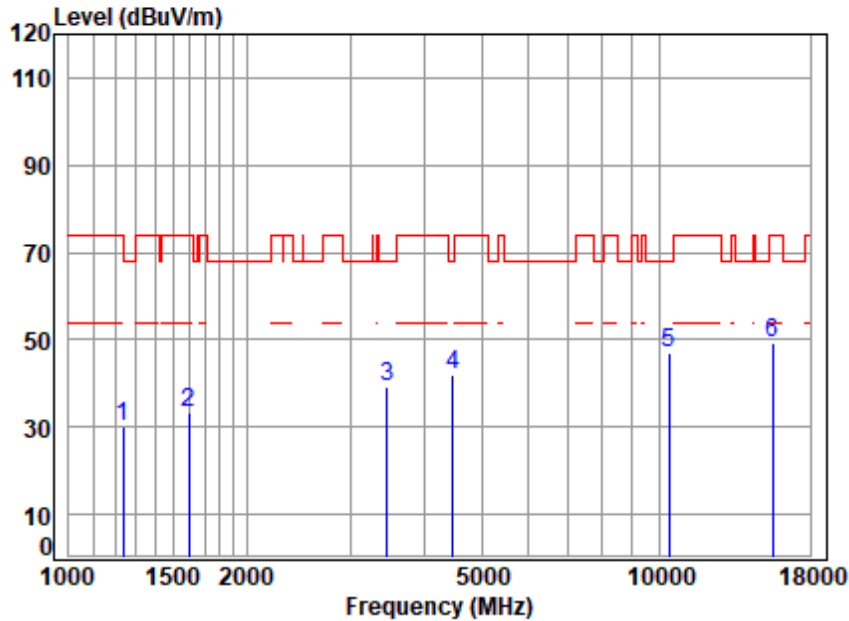
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5190 TX RSE
 Note : 5G WIFI 11N40

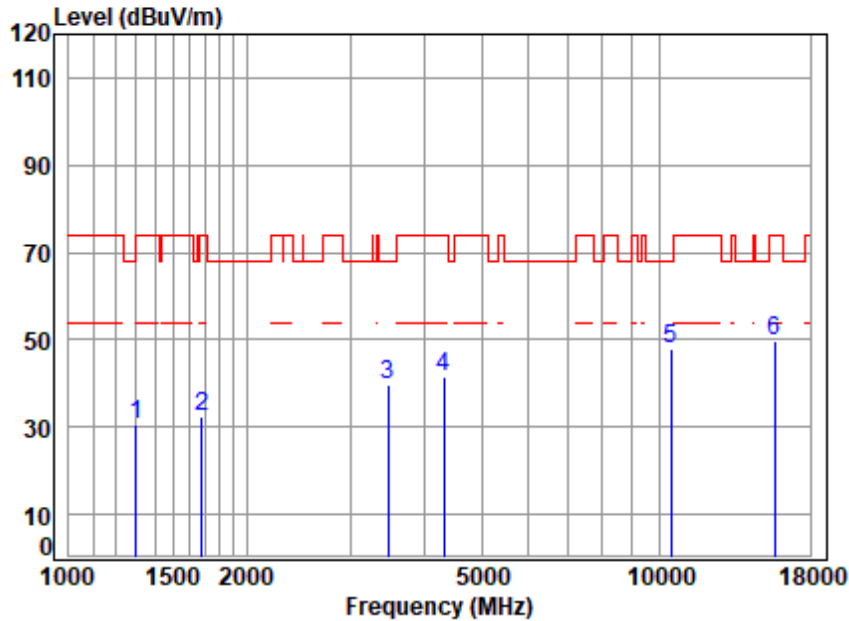
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.23	24.28	52.68	55.20	30.03	74.00	-43.97	peak
2	1597.181	3.98	24.79	52.91	57.52	33.38	74.00	-40.62	peak
3	3455.508	6.88	28.69	52.95	56.76	39.38	68.20	-28.82	peak
4	4469.214	7.47	30.16	52.95	57.16	41.84	68.20	-26.36	peak
5	10380.000	11.07	38.87	53.36	50.35	46.93	68.20	-21.27	peak
6	15570.000	13.49	39.64	53.41	49.54	49.26	74.00	-24.74	peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5230 TX RSE
 Note : 5G WIFI 11N40

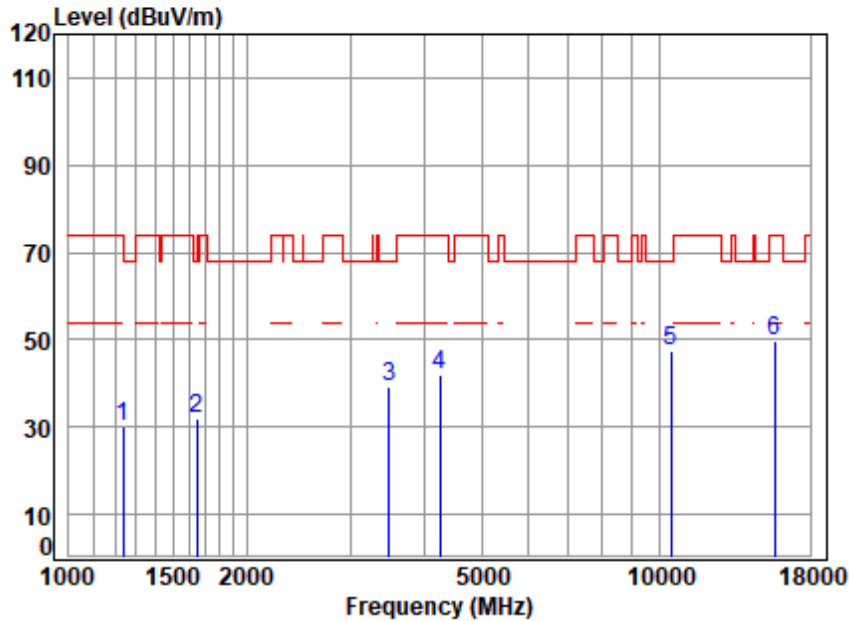
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	55.47	30.36	74.00	-43.64	peak
2	1677.621	4.15	24.96	52.95	56.29	32.45	74.00	-41.55	peak
3	3475.541	6.93	28.70	52.95	57.10	39.78	68.20	-28.42	peak
4	4316.859	7.48	29.95	52.90	56.95	41.48	74.00	-32.52	peak
5	10460.000	11.06	38.97	53.39	51.07	47.71	68.20	-20.49	peak
6	15690.000	13.50	39.23	53.35	50.31	49.69	74.00	-24.31	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5230 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.24	24.28	52.69	55.42	30.25	74.00	-43.75	peak
2	1648.778	4.09	24.90	52.93	56.06	32.12	68.20	-36.08	peak
3	3485.601	6.96	28.70	52.94	56.47	39.19	68.20	-29.01	peak
4	4254.921	7.48	29.87	52.88	57.58	42.05	74.00	-31.95	peak
5	10460.000	11.06	38.97	53.39	51.02	47.66	68.20	-20.54	peak
6	15690.000	13.50	39.23	53.35	50.21	49.59	74.00	-24.41	peak



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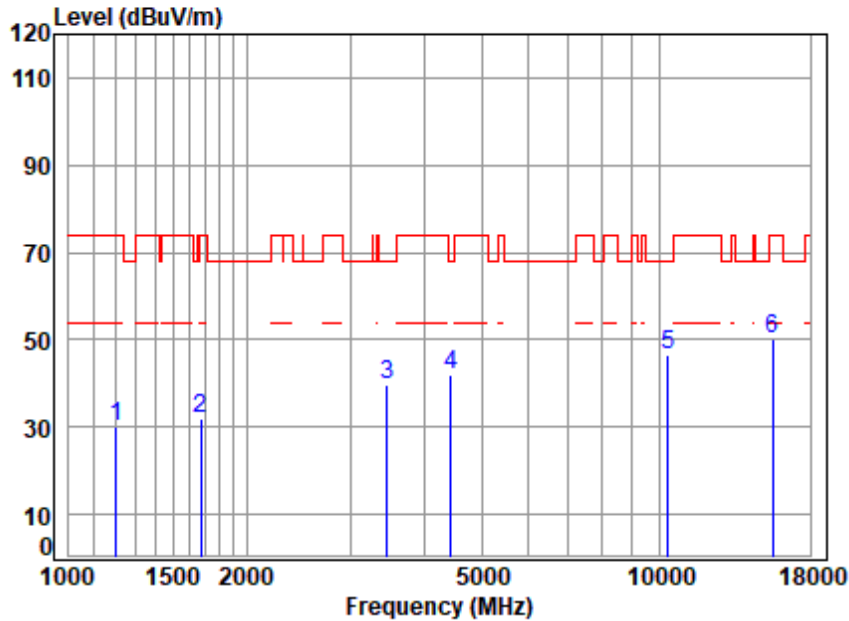
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 45 of 133

Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	3.16	24.30	52.66	55.22	30.02	74.00	-43.98	peak
2	1672.779	4.14	24.95	52.95	55.66	31.80	74.00	-42.20	peak
3	3465.510	6.91	28.69	52.95	57.24	39.89	68.20	-28.31	peak
4	4443.453	7.47	30.12	52.94	57.13	41.78	68.20	-26.42	peak
5	10360.000	11.08	38.85	53.35	50.02	46.60	68.20	-21.60	peak
6	15540.000	13.49	39.74	53.43	50.49	50.29	74.00	-23.71	peak



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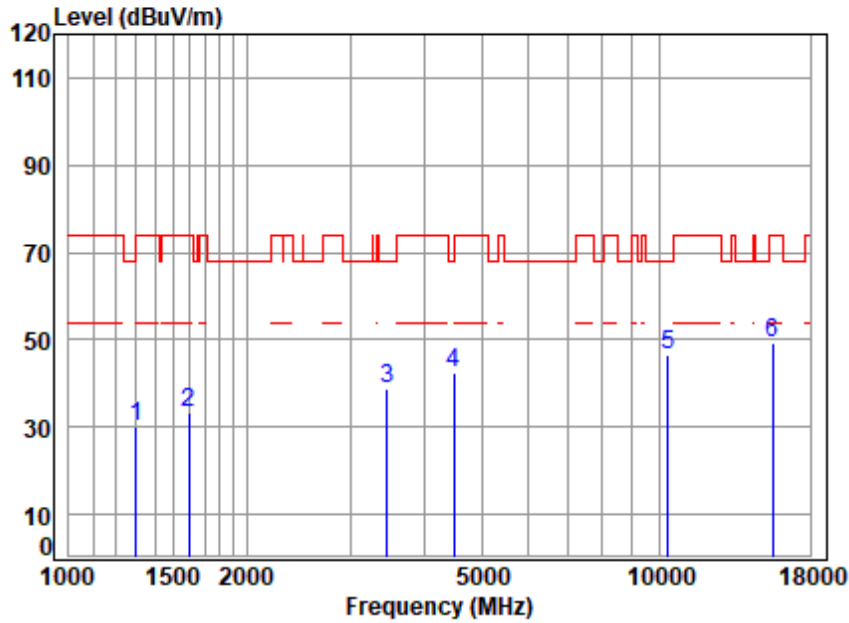
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1300.858	3.37	24.25	52.73	55.10	29.99	74.00	-44.01
2	1597.181	3.98	24.79	52.91	57.26	33.12	74.00	-40.88
3	3455.508	6.88	28.69	52.95	56.21	38.83	68.20	-29.37
4	4495.125	7.47	30.19	52.96	57.76	42.46	68.20	-25.74
5	10360.000	11.08	38.85	53.35	50.11	46.69	68.20	-21.51
6	15540.000	13.49	39.74	53.43	49.40	49.20	74.00	-24.80



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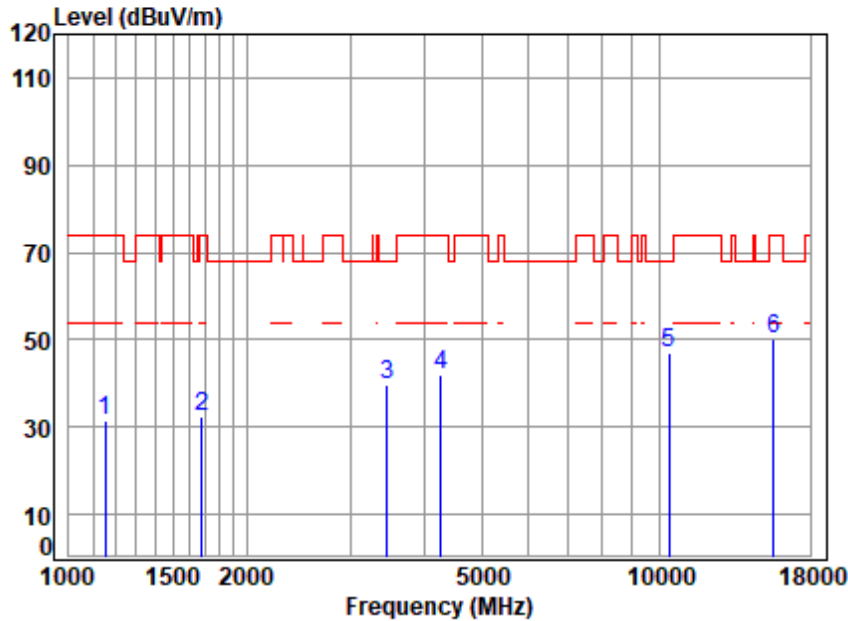
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11AC20

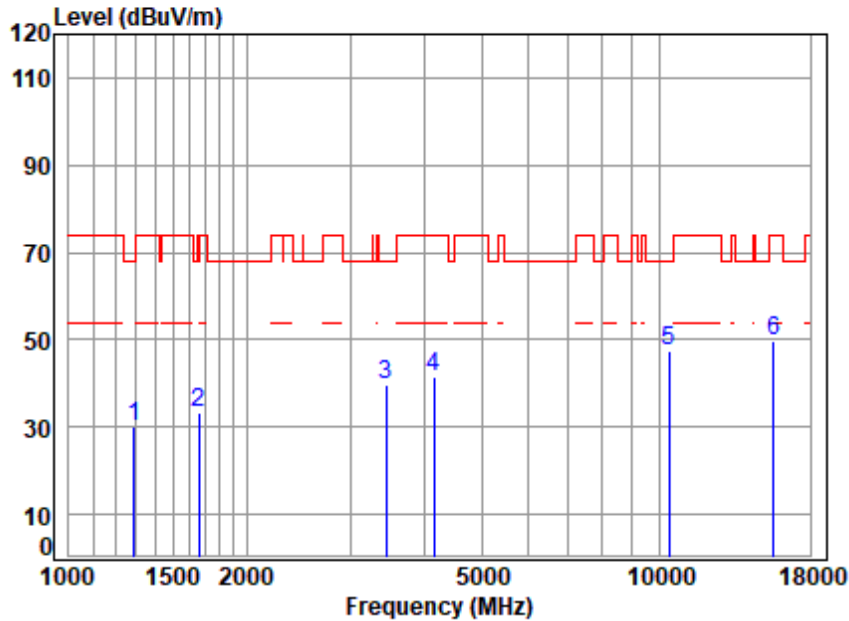
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1152.148	3.03	24.26	52.62	56.78	31.45	74.00	-42.55 peak
2	1682.477	4.16	24.97	52.95	56.27	32.45	74.00	-41.55 peak
3	3465.510	6.91	28.69	52.95	56.87	39.52	68.20	-28.68 peak
4	4267.237	7.48	29.88	52.89	57.37	41.84	74.00	-32.16 peak
5	10400.000	11.07	38.89	53.36	50.57	47.17	68.20	-21.03 peak
6	15600.000	13.50	39.53	53.40	50.48	50.11	74.00	-23.89 peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11 ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	3.35	24.25	52.72	55.05	29.93	68.20	-38.27	peak
2	1658.337	4.11	24.92	52.94	57.15	33.24	68.20	-34.96	peak
3	3445.535	6.86	28.69	52.96	57.15	39.74	68.20	-28.46	peak
4	4157.664	7.48	29.73	52.85	57.19	41.55	74.00	-32.45	peak
5	10400.000	11.07	38.89	53.36	50.97	47.57	68.20	-20.63	peak
6	15600.000	13.50	39.53	53.40	50.30	49.93	74.00	-24.07	peak



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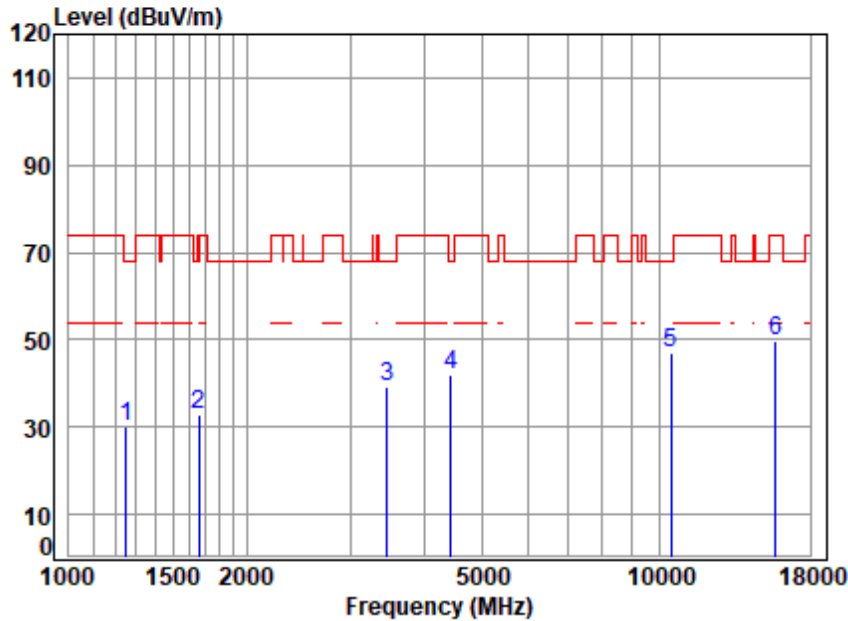
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.27	24.27	52.70	55.27	30.11	68.20	-38.09	peak
2	1658.337	4.11	24.92	52.94	56.66	32.75	68.20	-35.45	peak
3	3455.508	6.88	28.69	52.95	56.77	39.39	68.20	-28.81	peak
4	4430.628	7.47	30.11	52.94	57.56	42.20	68.20	-26.00	peak
5	10480.000	11.06	38.99	53.40	50.47	47.12	68.20	-21.08	peak
6	15720.000	13.50	39.13	53.34	50.44	49.73	74.00	-24.27	peak



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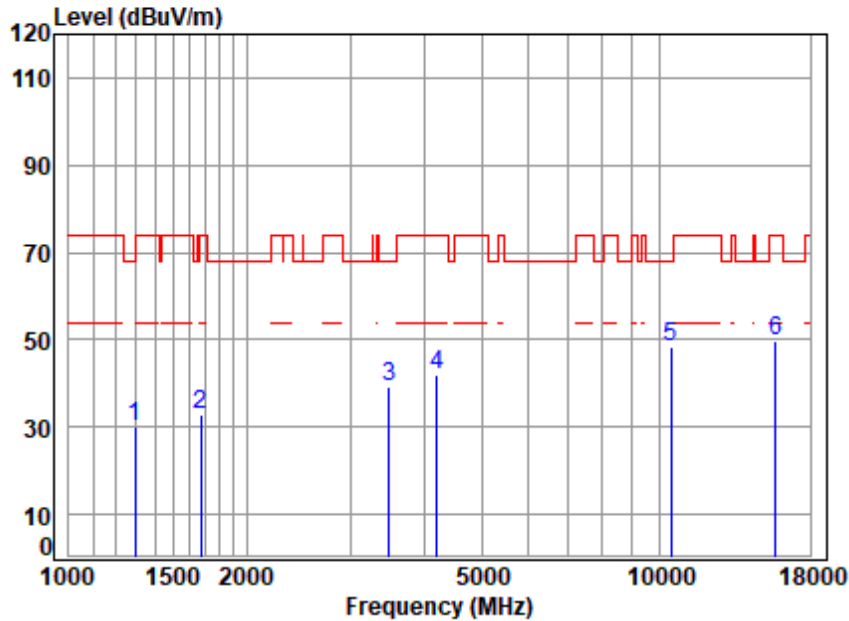
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11AC20

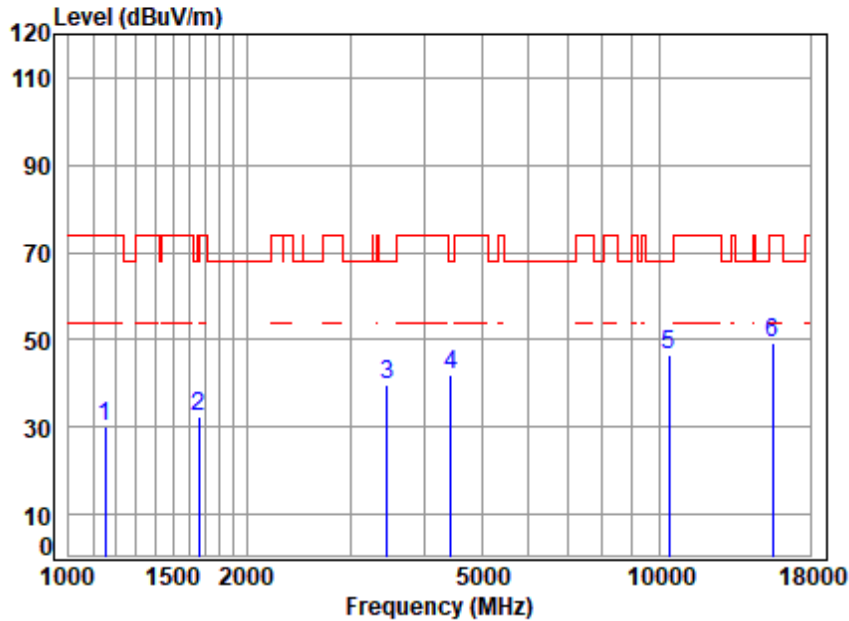
		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.36	24.25	52.73	55.13	30.01	68.20	-38.19	peak
2	1672.779	4.14	24.95	52.95	56.50	32.64	74.00	-41.36	peak
3	3485.601	6.96	28.70	52.94	56.46	39.18	68.20	-29.02	peak
4	4206.011	7.48	29.80	52.87	57.41	41.82	74.00	-32.18	peak
5	10480.000	11.06	38.99	53.40	51.66	48.31	68.20	-19.89	peak
6	15720.000	13.50	39.13	53.34	50.37	49.66	74.00	-24.34	peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5190 TX RSE
 Note : 5G WIFI 11AC40

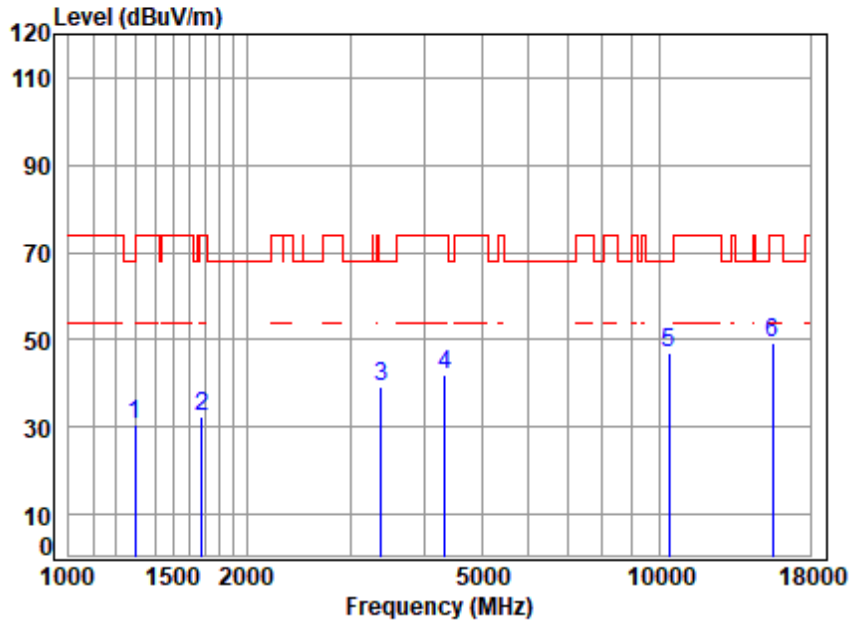
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1152.148	3.03	24.26	52.62	55.60	30.27	74.00	-43.73 peak
2	1658.337	4.11	24.92	52.94	56.15	32.24	68.20	-35.96 peak
3	3465.510	6.91	28.69	52.95	56.92	39.57	68.20	-28.63 peak
4	4430.628	7.47	30.11	52.94	57.52	42.16	68.20	-26.04 peak
5	10380.000	11.07	38.87	53.36	49.77	46.35	68.20	-21.85 peak
6	15570.000	13.49	39.64	53.41	49.67	49.39	74.00	-24.61 peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5190 TX RSE
 Note : 5G WIFI 11AC40

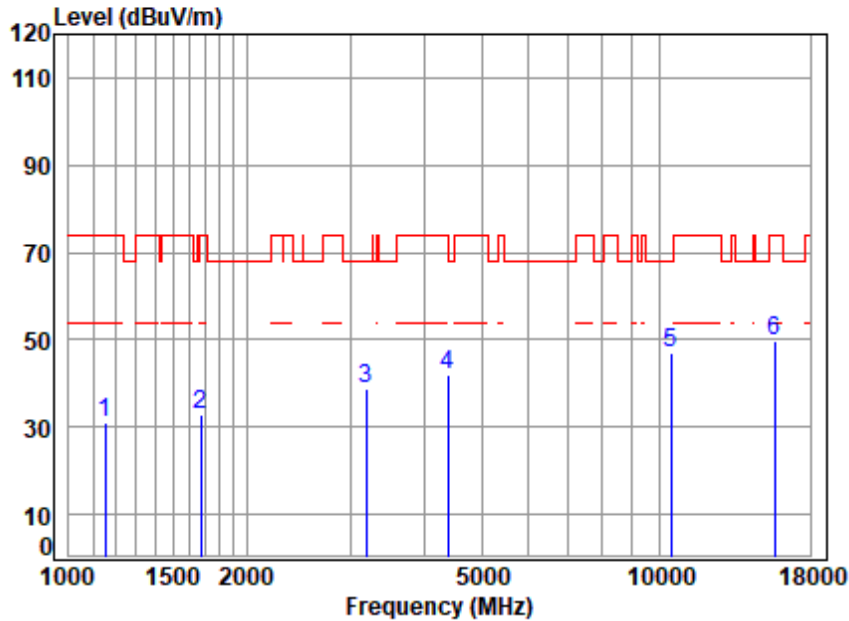
		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.36	24.25	52.73	55.49	30.37	68.20	-37.83	peak
2	1682.477	4.16	24.97	52.95	56.18	32.36	74.00	-41.64	peak
3	3376.523	6.69	28.68	52.98	56.74	39.13	68.20	-29.07	peak
4	4329.354	7.48	29.97	52.91	57.63	42.17	74.00	-31.83	peak
5	10380.000	11.07	38.87	53.36	50.62	47.20	68.20	-21.00	peak
6	15570.000	13.49	39.64	53.41	49.67	49.39	74.00	-24.61	peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5230 TX RSE
 Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	3.03	24.26	52.62	56.25	30.92	74.00	-43.08	peak
2	1672.779	4.14	24.95	52.95	56.56	32.70	74.00	-41.30	peak
3	3186.869	6.22	28.64	53.04	57.06	38.88	68.20	-29.32	peak
4	4392.376	7.47	30.06	52.93	57.39	41.99	74.00	-32.01	peak
5	10460.000	11.06	38.97	53.39	50.51	47.15	68.20	-21.05	peak
6	15690.000	13.50	39.23	53.35	50.22	49.60	74.00	-24.40	peak



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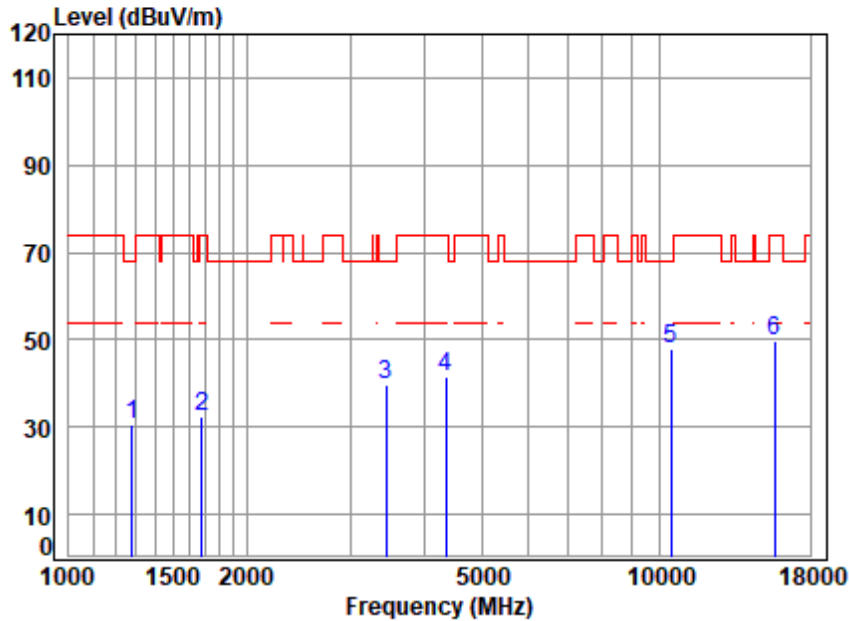
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 54 of 133

Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5230 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	3.32	24.26	52.71	55.49	30.36	68.20	-37.84	peak
2	1677.621	4.15	24.96	52.95	56.17	32.33	74.00	-41.67	peak
3	3445.535	6.86	28.69	52.96	57.33	39.92	68.20	-28.28	peak
4	4354.454	7.48	30.00	52.91	57.14	41.71	74.00	-32.29	peak
5	10460.000	11.06	38.97	53.39	51.11	47.75	68.20	-20.45	peak
6	15690.000	13.50	39.23	53.35	50.19	49.57	74.00	-24.43	peak



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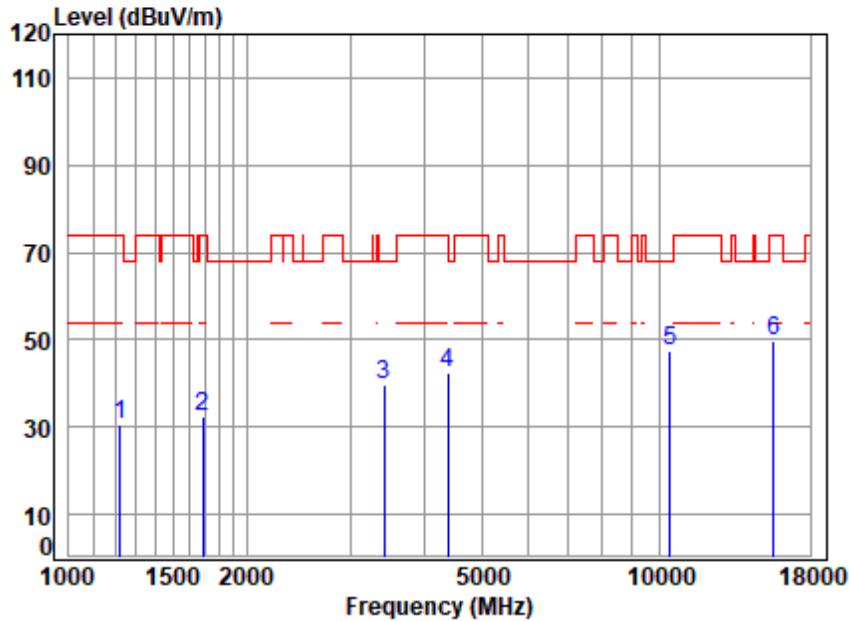
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5210 TX RSE
 Note : 5G WIFI 11AC80

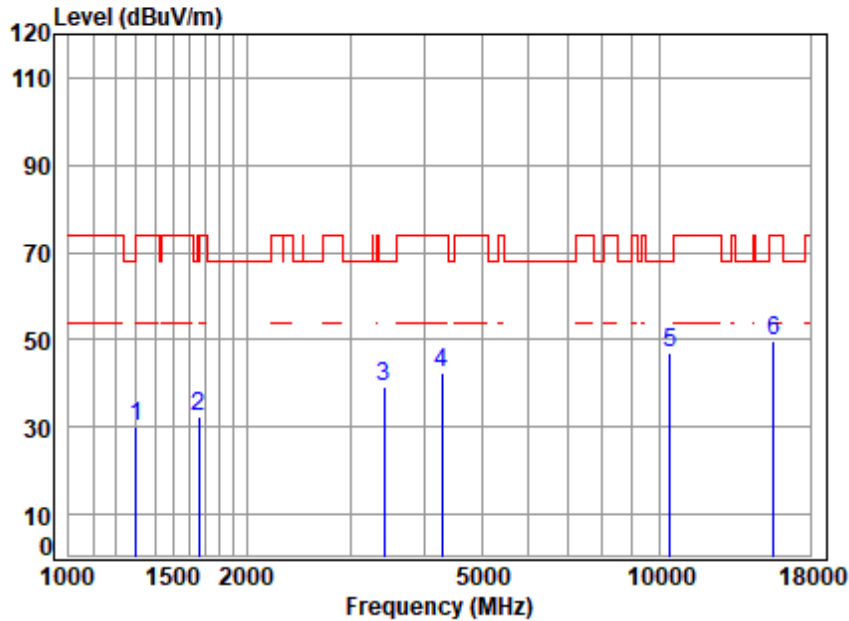
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	3.20	24.29	52.67	55.71	30.53	74.00	-43.47	peak
2	1687.347	4.17	24.98	52.95	56.30	32.50	74.00	-41.50	peak
3	3415.787	6.79	28.68	52.96	57.10	39.61	68.20	-28.59	peak
4	4379.699	7.47	30.04	52.92	57.91	42.50	74.00	-31.50	peak
5	10420.000	11.07	38.92	53.37	50.88	47.50	68.20	-20.70	peak
6	15630.000	13.50	39.43	53.38	50.14	49.69	74.00	-24.31	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5210 TX RSE
 Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	55.02	29.91	74.00	-44.09	peak
2	1663.137	4.12	24.93	52.94	56.44	32.55	74.00	-41.45	peak
3	3415.787	6.79	28.68	52.96	56.86	39.37	68.20	-28.83	peak
4	4291.977	7.48	29.92	52.89	57.98	42.49	74.00	-31.51	peak
5	10420.000	11.07	38.92	53.37	50.55	47.17	68.20	-21.03	peak
6	15630.000	13.50	39.43	53.38	50.38	49.93	74.00	-24.07	peak



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7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: KDB 789033 D02 II G
 Measurement Distance: 3m

Limit:

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

*(1) 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.

(2) 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.

(3) 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.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) 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.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.8.1 E.U.T. Operation

Operating Environment:



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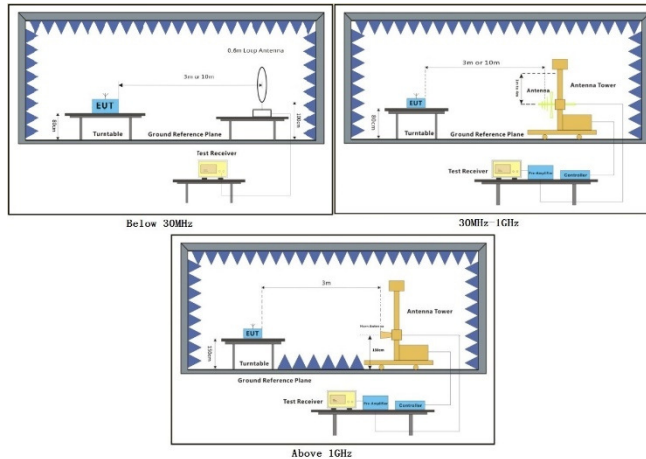
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Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	09	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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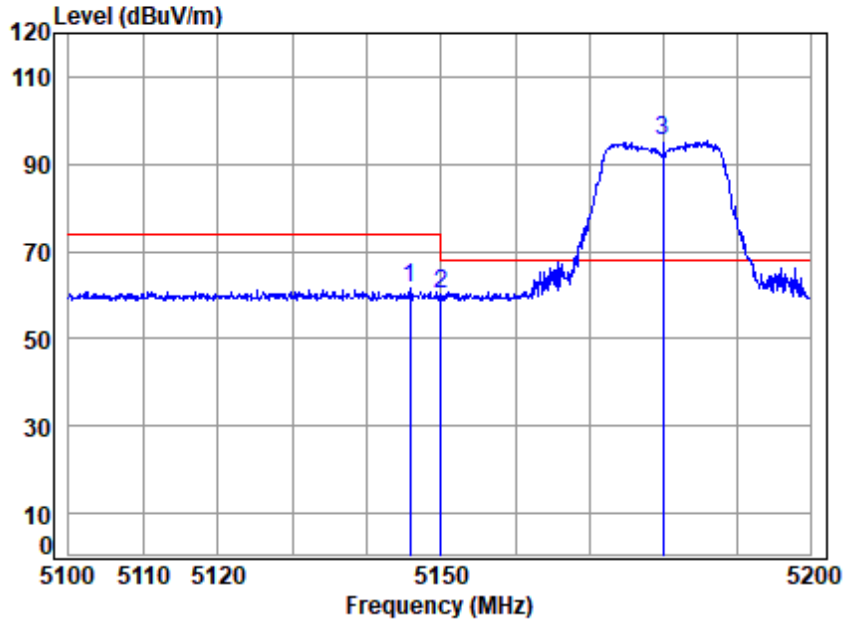
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5180 Band edge
 : 5G WIFI 11A

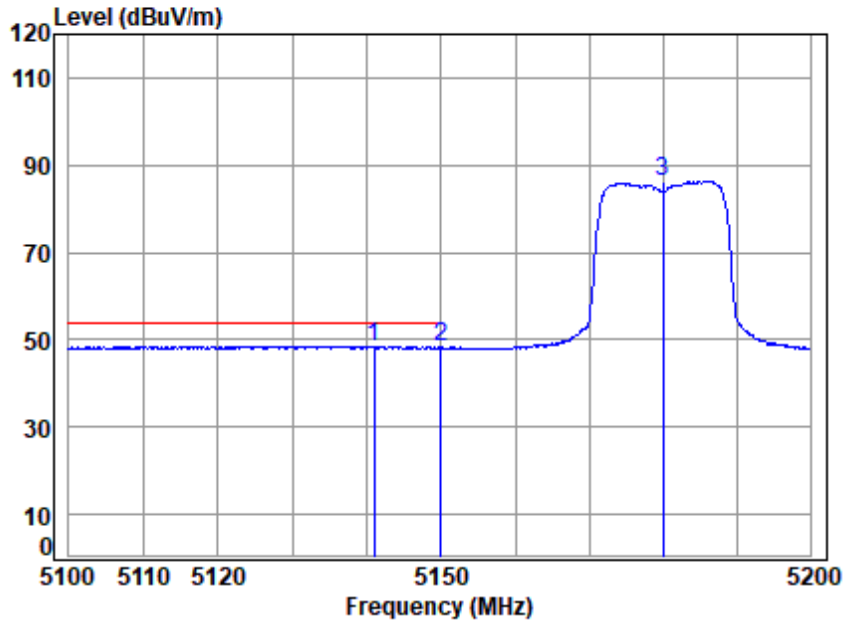
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.759	8.29	31.76	31.81	53.16	61.40	74.00	-12.60 peak
2	5149.980	8.29	31.77	31.82	51.97	60.21	74.00	-13.79 peak
3	5180.000	8.29	31.85	31.86	87.14	95.42	68.20	27.22 peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5180 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5140.965	8.29	31.75	31.80	40.16	48.40	54.00	-5.60	Average
2	5149.980	8.29	31.77	31.82	40.00	48.24	54.00	-5.76	Average
3	5180.000	8.29	31.85	31.86	77.99	86.27	-----	-----	Average



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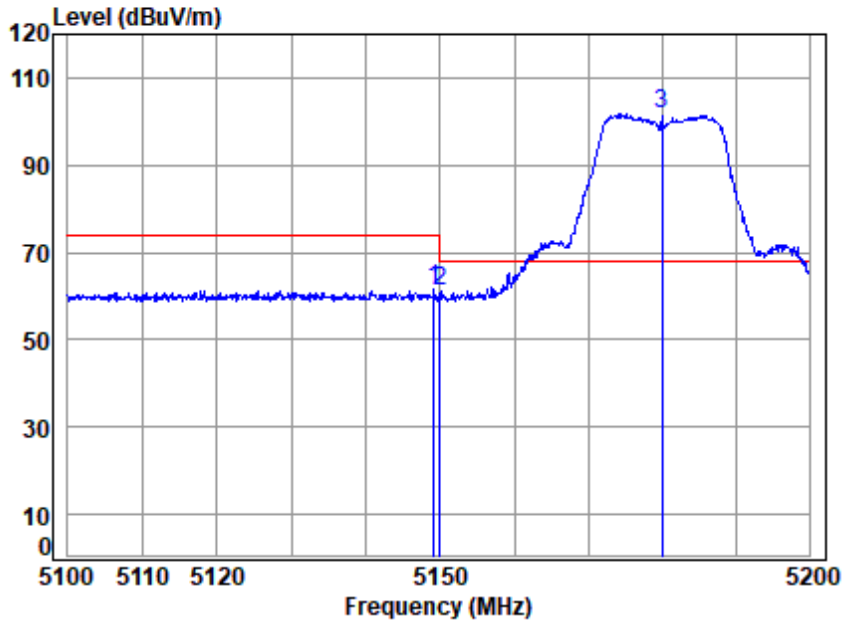
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 62 of 133

Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5180 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.157	8.29	31.77	31.82	53.18	61.42	74.00	-12.58 Peak
2	5149.980	8.29	31.77	31.82	52.93	61.17	74.00	-12.83 Peak
3	5180.000	8.29	31.85	31.86	93.62	101.90	68.20	33.70 Peak



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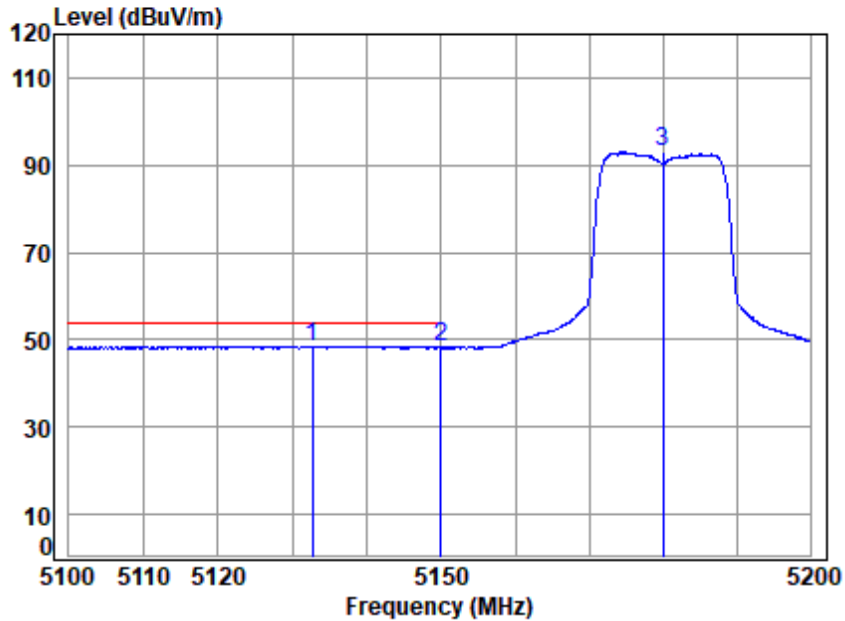
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5180 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5132.686	8.29	31.73	31.79	40.30	48.53	54.00	-5.47	Average
2	5149.980	8.29	31.77	31.82	40.00	48.24	54.00	-5.76	Average
3	5180.000	8.29	31.85	31.86	84.64	92.92	-----	-----	Average



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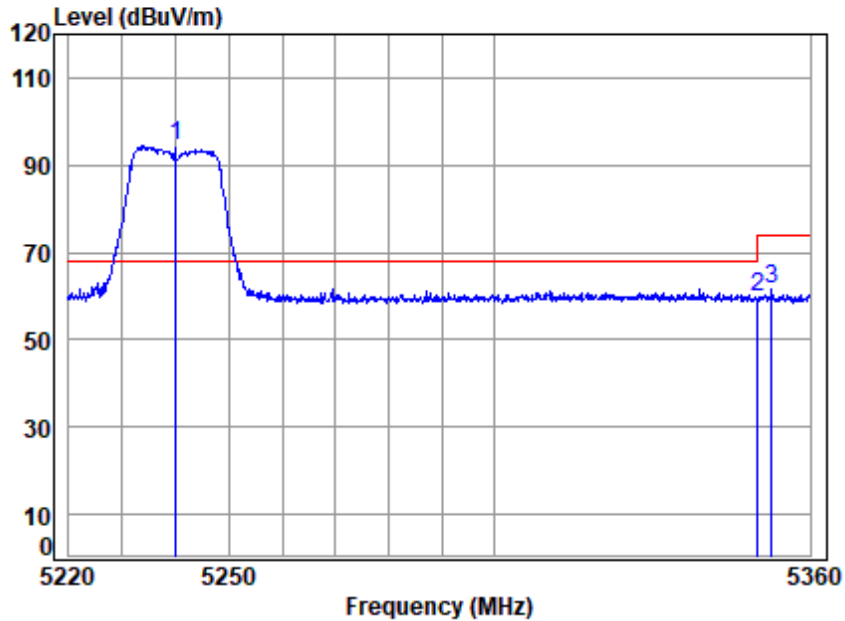
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Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5240 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	86.04	94.38	68.20	26.18 peak
2	5350.020	8.28	32.25	32.10	51.42	59.85	74.00	-14.15 peak
3	5352.628	8.28	32.26	32.10	53.10	61.54	74.00	-12.46 peak



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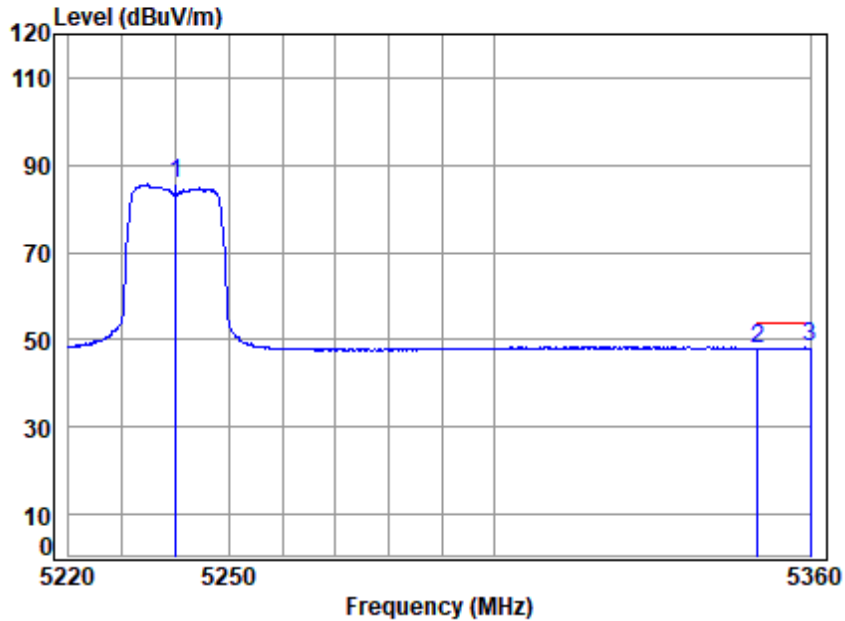
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 65 of 133

Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5240 Band edge
 : 5G WIFI 11A

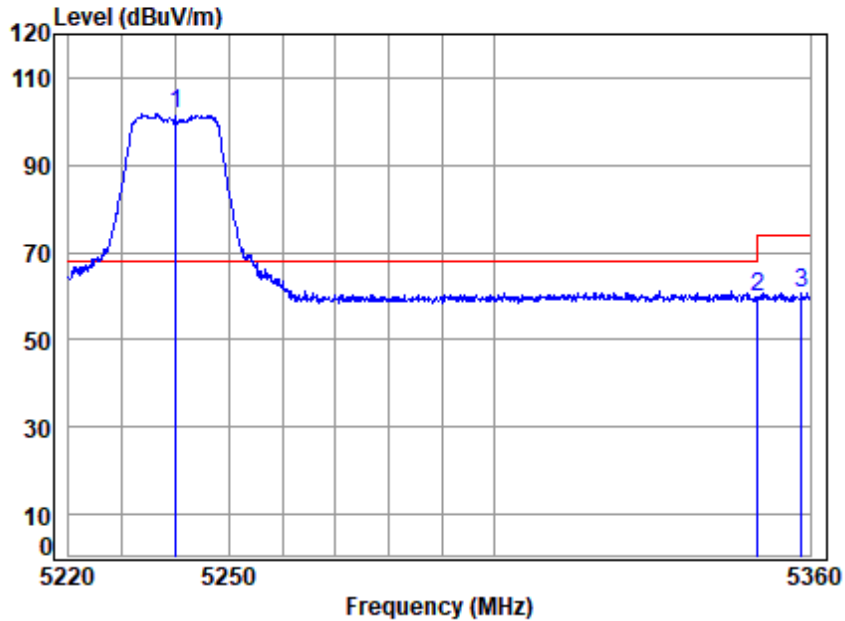
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.29	31.99	31.94	77.36	85.70	-----	-----	Average
2	5350.020	8.28	32.25	32.10	39.56	47.99	54.00	-6.01	Average
3	5360.000	8.28	32.28	32.11	39.74	48.19	54.00	-5.81	Average



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5240 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	93.49	101.83	68.20	33.63 Peak
2	5350.020	8.28	32.25	32.10	51.27	59.70	74.00	-14.30 Peak
3	5358.298	8.28	32.27	32.11	52.32	60.76	74.00	-13.24 Peak



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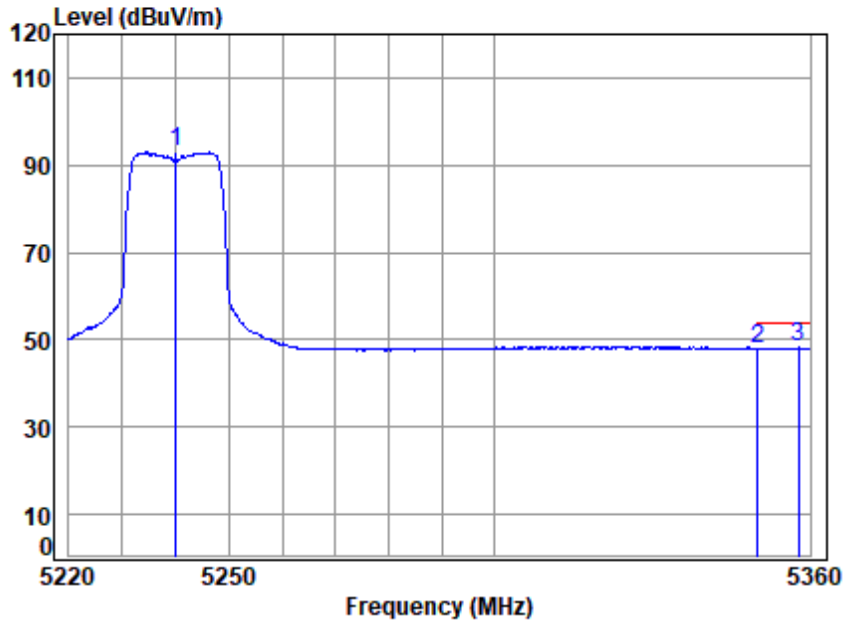
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5240 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.29	31.99	31.94	84.63	92.97	-----	-----	Average
2	5350.020	8.28	32.25	32.10	39.63	48.06	54.00	-5.94	Average
3	5357.873	8.28	32.27	32.11	39.77	48.21	54.00	-5.79	Average



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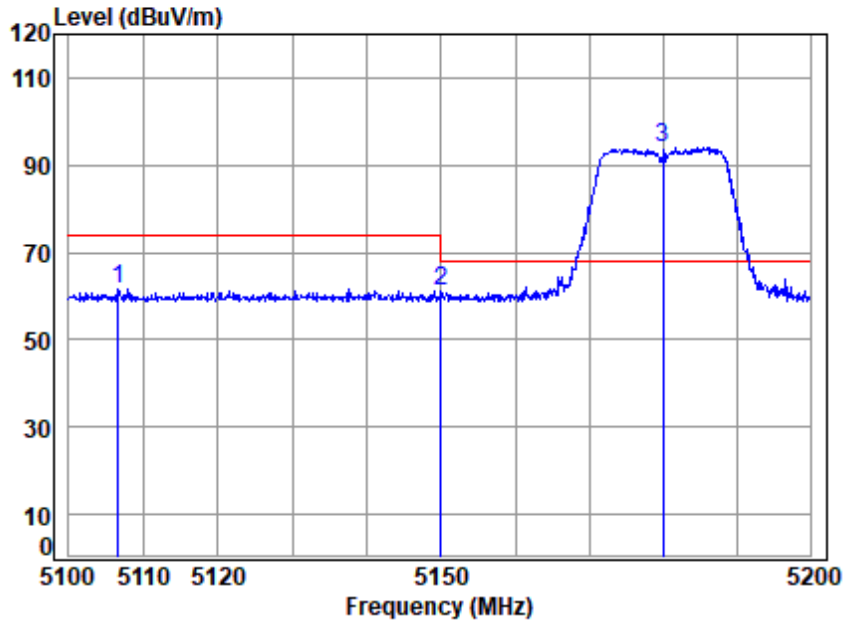
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5180 Band edge
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5106.640	8.29	31.67	31.75	53.31	61.52	74.00	-12.48 peak
2	5149.980	8.29	31.77	31.82	53.09	61.33	74.00	-12.67 peak
3	5180.000	8.29	31.85	31.86	85.78	94.06	68.20	25.86 peak



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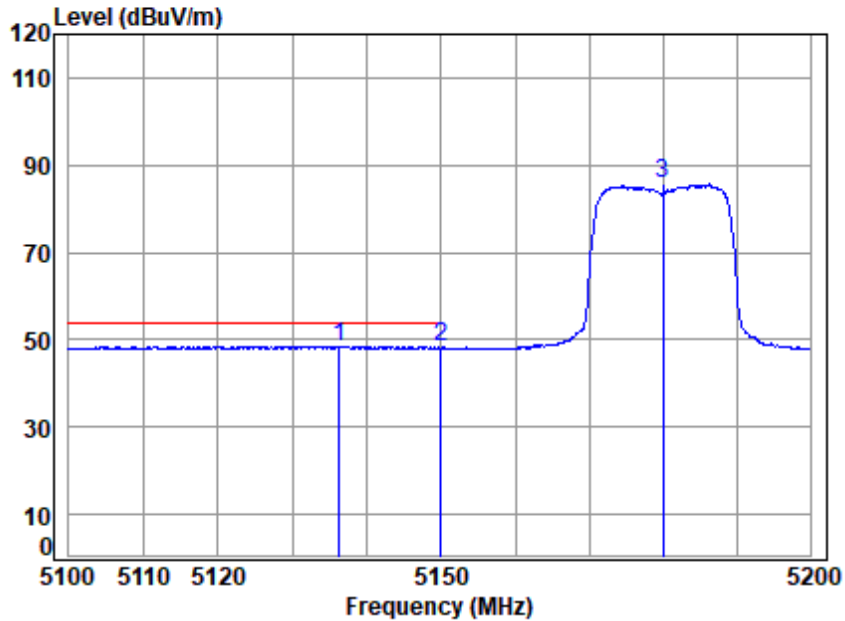
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5180 Band edge
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5136.275	8.29	31.74	31.80	40.19	48.42	54.00	-5.58	Average
2	5149.980	8.29	31.77	31.82	39.98	48.22	54.00	-5.78	Average
3	5180.000	8.29	31.85	31.86	77.27	85.55	-----	-----	Average



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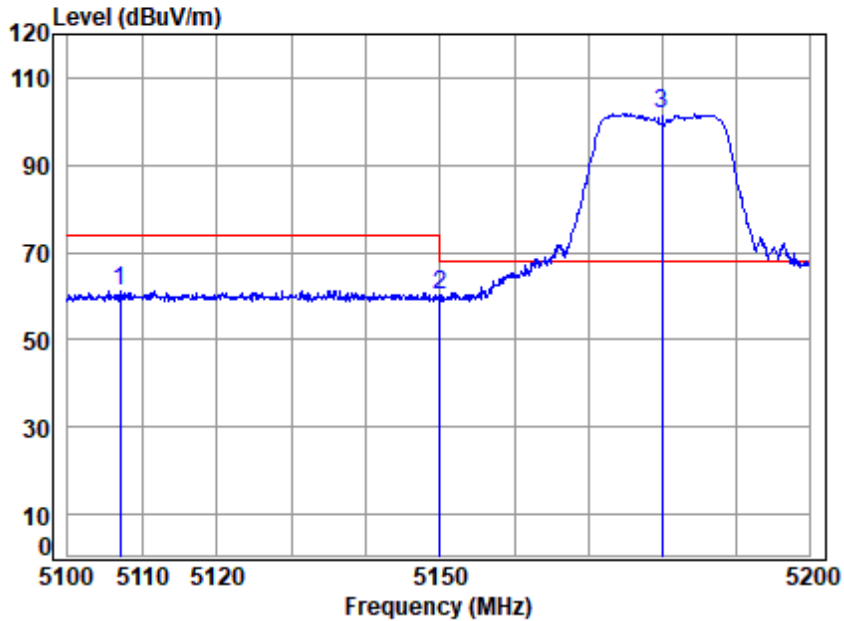
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Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5180 Band edge
 : 5G WIFI 11N20

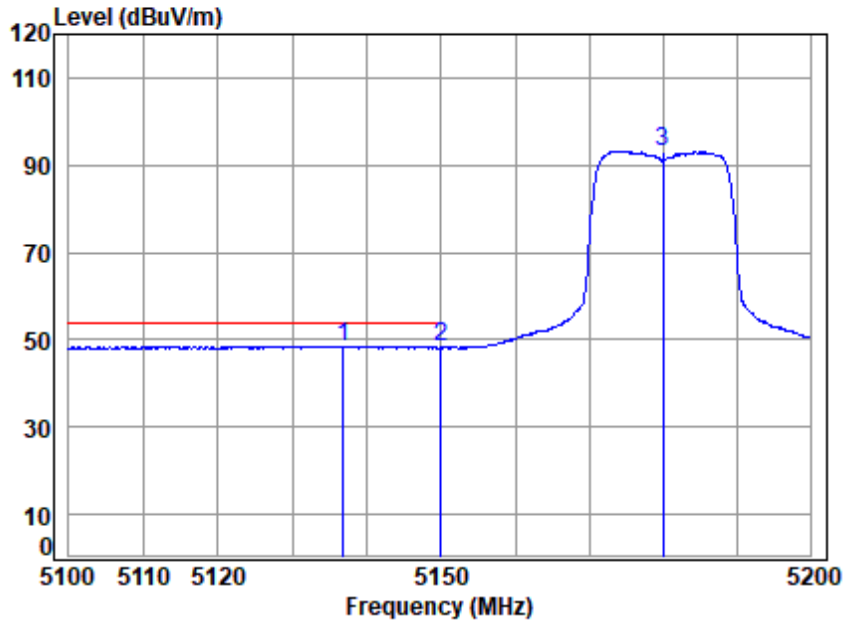
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5107.036	8.29	31.67	31.76	53.04	61.24	74.00	-12.76 Peak
2	5149.980	8.29	31.77	31.82	52.20	60.44	74.00	-13.56 Peak
3	5180.000	8.29	31.85	31.86	93.34	101.62	68.20	33.42 Peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



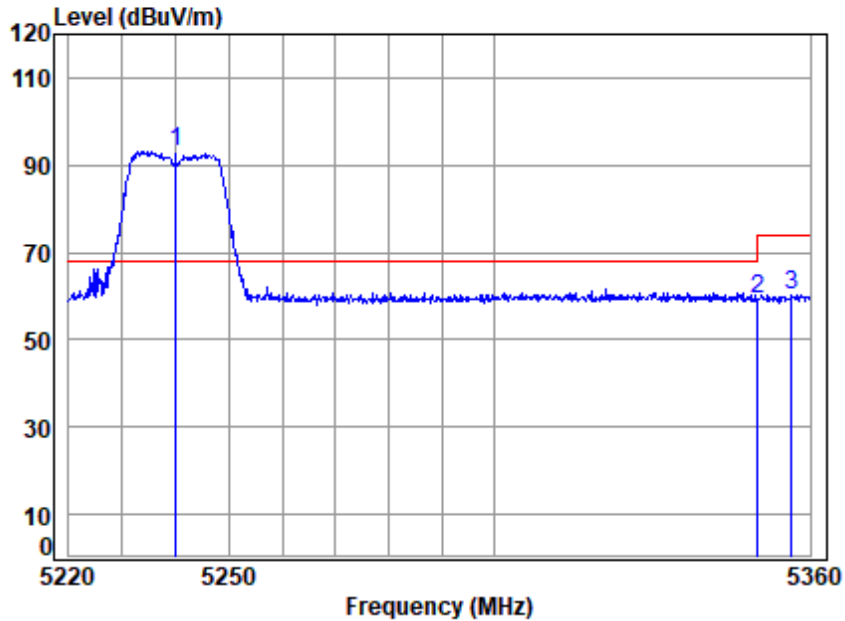
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5180 Band edge
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5136.874	8.29	31.74	31.80	40.28	48.51	54.00	-5.49	Average
2	5149.980	8.29	31.77	31.82	39.95	48.19	54.00	-5.81	Average
3	5180.000	8.29	31.85	31.86	84.87	93.15	-----	-----	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5240 Band edge
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	84.91	93.25	68.20	25.05 peak
2	5350.020	8.28	32.25	32.10	51.06	59.49	74.00	-14.51 peak
3	5356.455	8.28	32.27	32.11	51.91	60.35	74.00	-13.65 peak



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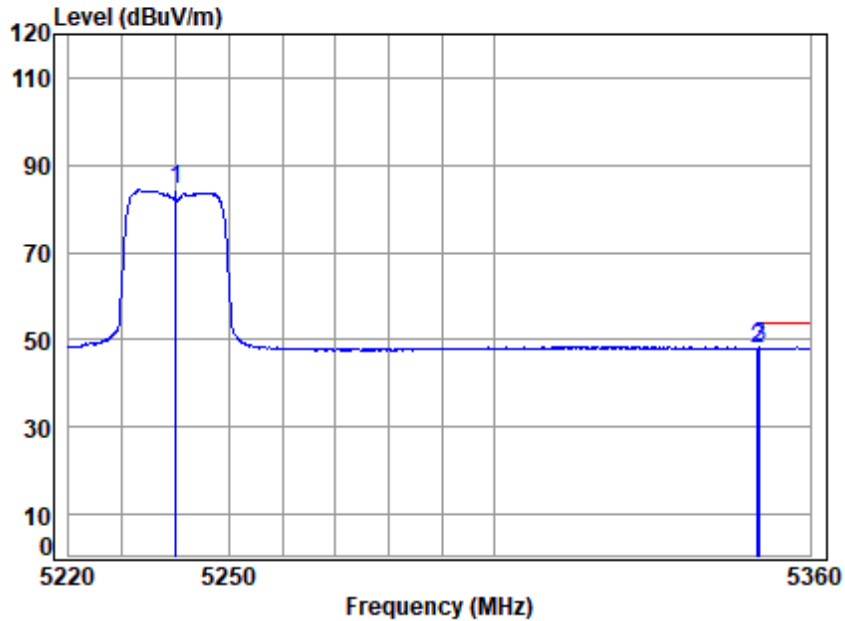
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5240 Band edge
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	75.94	84.28	-----	----- Average
2	5350.020	8.28	32.25	32.10	39.50	47.93	54.00	-6.07 Average
3	5350.362	8.28	32.25	32.10	39.74	48.17	54.00	-5.83 Average



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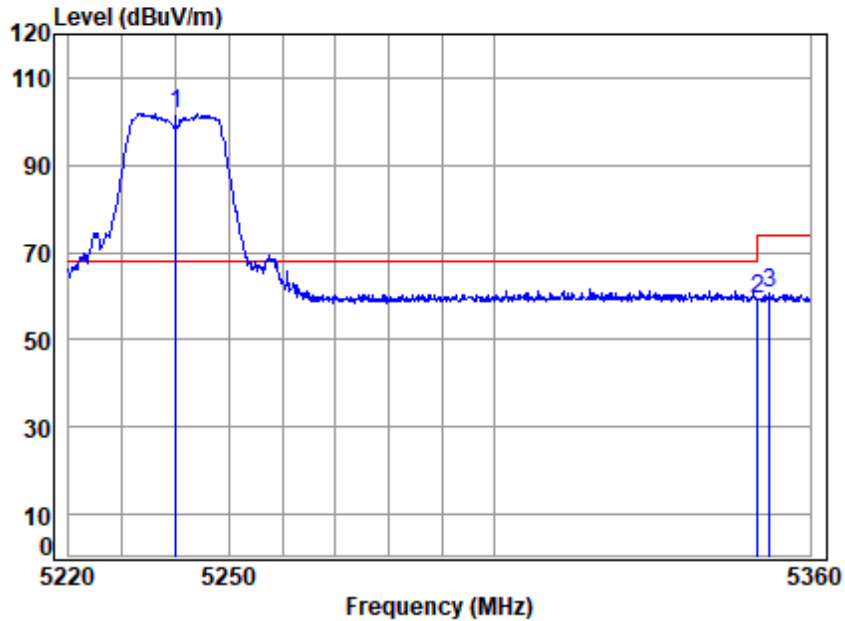
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5240 Band edge
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	93.32	101.66	68.20	33.46 Peak
2	5350.020	8.28	32.25	32.10	51.01	59.44	74.00	-14.56 Peak
3	5352.203	8.28	32.26	32.10	52.11	60.55	74.00	-13.45 Peak



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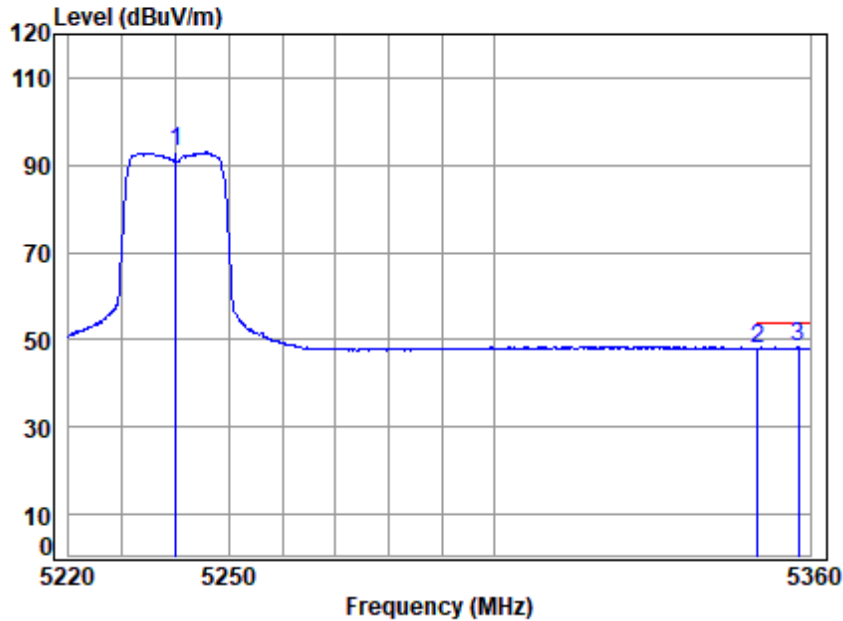
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5240 Band edge
 : 5G WIFI 11N20

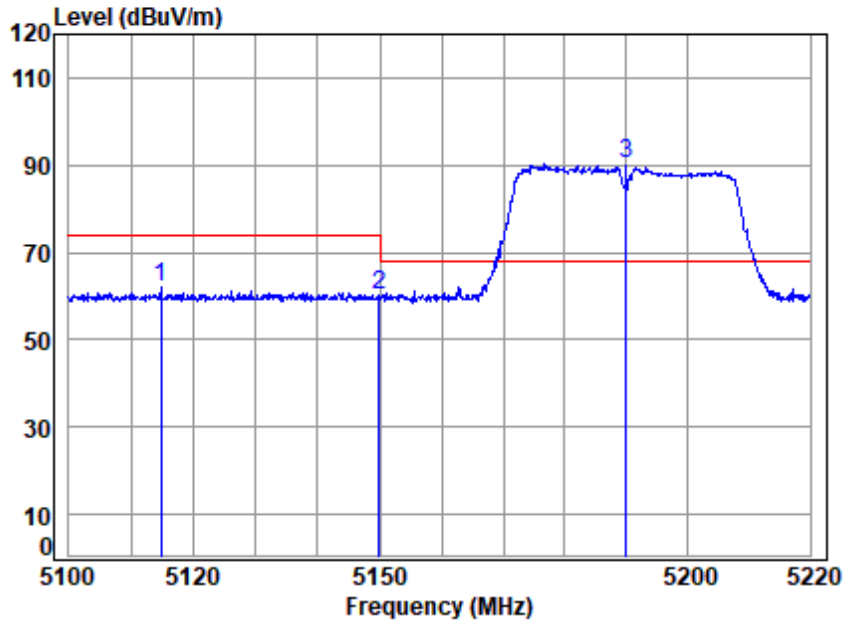
		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.29	31.99	31.94	84.64	92.98	-----	-----	Average
2	5350.020	8.28	32.25	32.10	39.60	48.03	54.00	-5.97	Average
3	5357.730	8.28	32.27	32.11	39.78	48.22	54.00	-5.78	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5190 Band edge
 : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5114.729	8.29	31.69	31.77	53.82	62.03	74.00	-11.97 peak
2	5149.980	8.29	31.77	31.82	52.06	60.30	74.00	-13.70 peak
3	5190.000	8.29	31.87	31.87	82.14	90.43	68.20	22.23 peak



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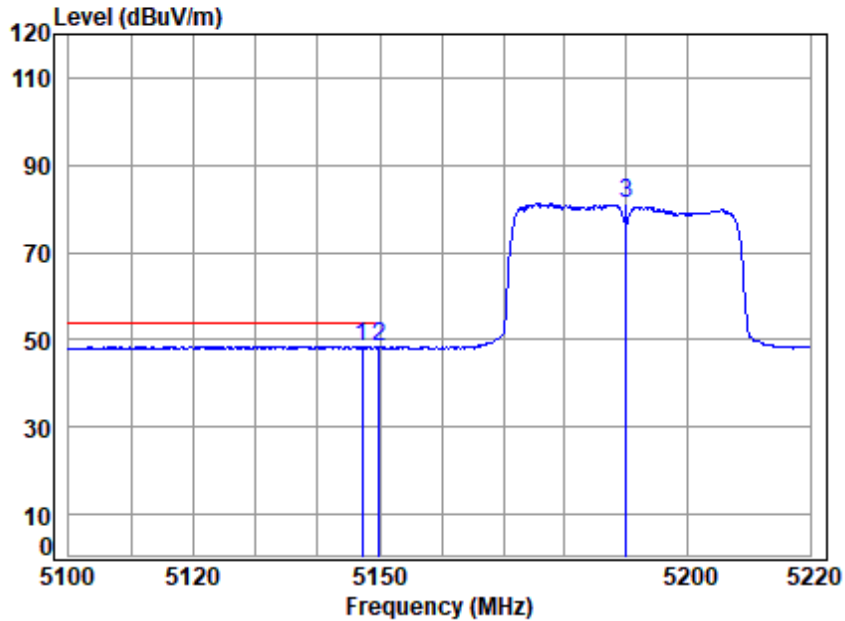
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5190 Band edge
 : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.187	8.29	31.77	31.81	40.29	48.54	54.00	-5.46	Average
2	5149.980	8.29	31.77	31.82	39.95	48.19	54.00	-5.81	Average
3	5190.000	8.29	31.87	31.87	72.89	81.18	-----	-----	Average



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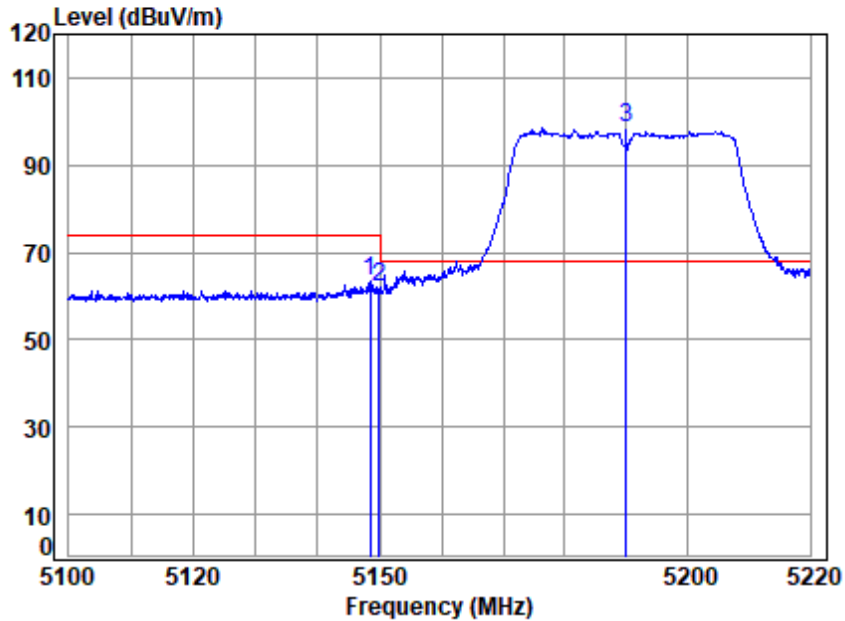
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5190 Band edge
 : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.384	8.29	31.77	31.81	55.38	63.63	74.00	-10.37 Peak
2	5149.980	8.29	31.77	31.82	53.65	61.89	74.00	-12.11 Peak
3	5190.000	8.29	31.87	31.87	90.04	98.33	68.20	30.13 Peak



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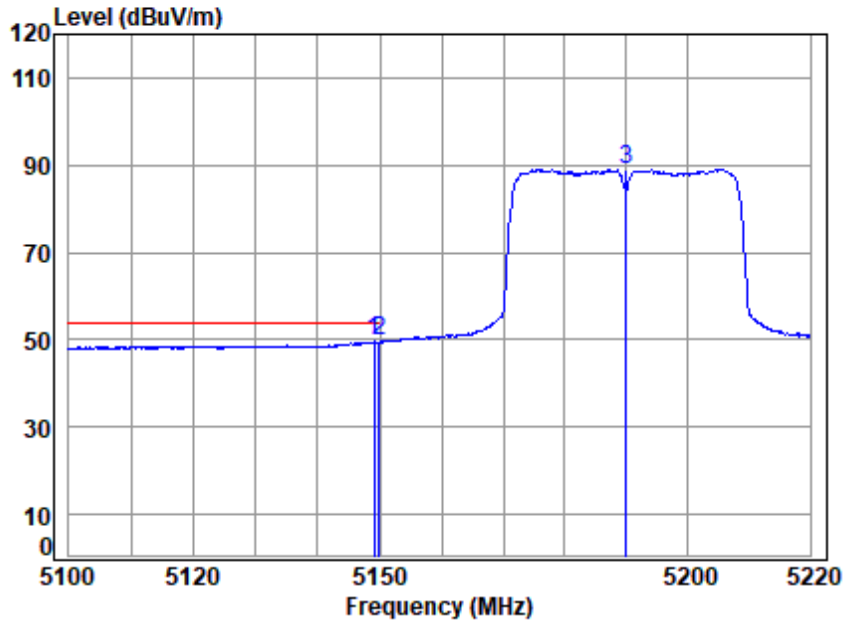
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5190 Band edge
 : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.102	8.29	31.77	31.82	41.29	49.53	54.00	-4.47	Average
2	5149.980	8.29	31.77	31.82	41.33	49.57	54.00	-4.43	Average
3	5190.000	8.29	31.87	31.87	80.79	89.08	-----	-----	Average



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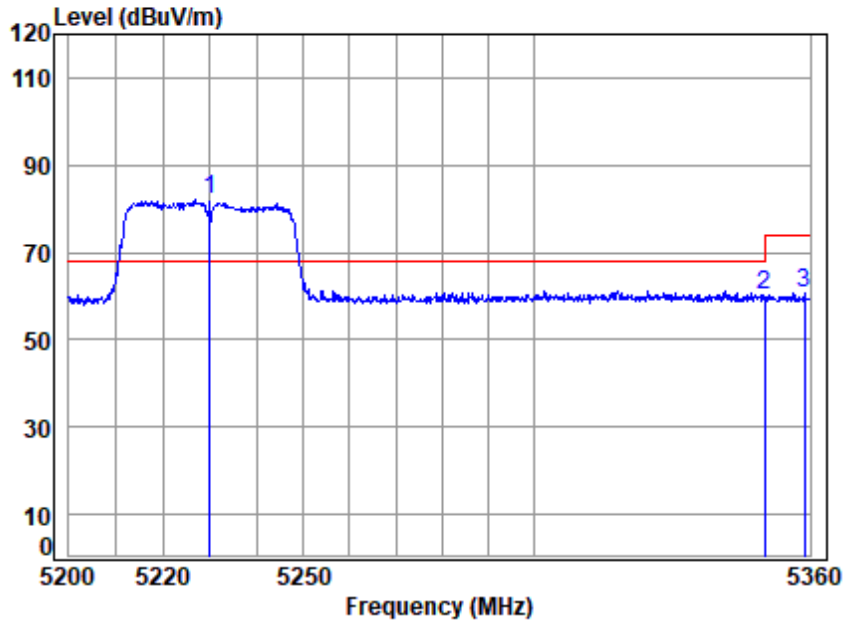
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5230 Band edge
 : 5G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5230.000	8.29	31.97	31.93	73.60	81.93	68.20	13.73	peak
2 5350.020	8.28	32.25	32.10	51.78	60.21	74.00	-13.79	peak
3 5358.863	8.28	32.27	32.11	52.35	60.79	74.00	-13.21	peak



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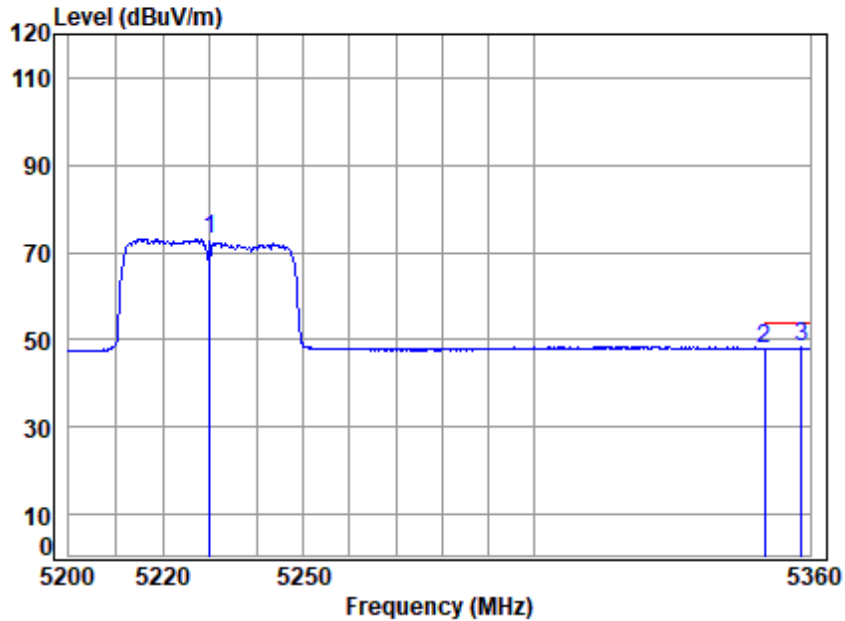
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5230 Band edge
 : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	8.29	31.97	31.93	64.85	73.18	-----	-----	Average
2	5350.020	8.28	32.25	32.10	39.53	47.96	54.00	-6.04	Average
3	5358.213	8.28	32.27	32.11	39.79	48.23	54.00	-5.77	Average



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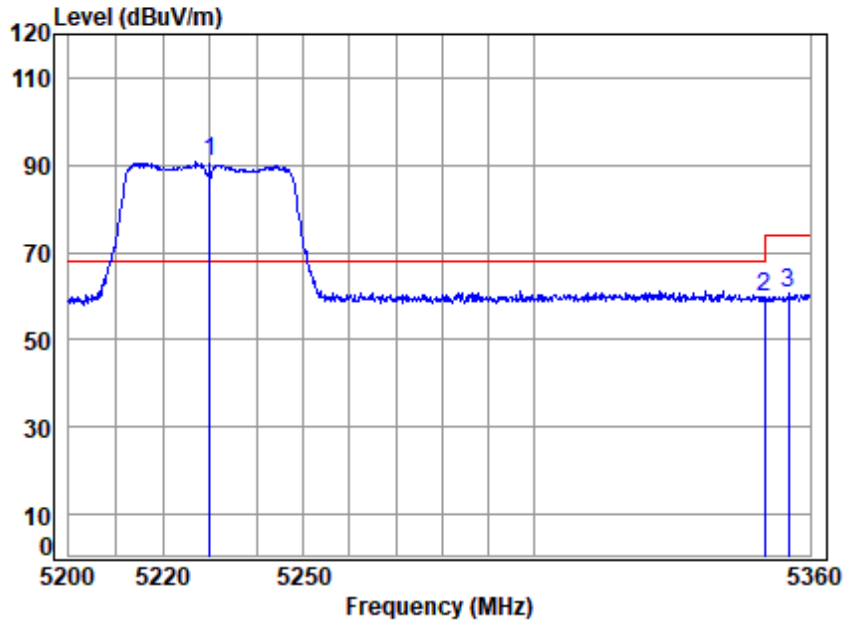
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5230 Band edge
 : 5G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5230.000	8.29	31.97	31.93	82.37	90.70	68.20	22.50	Peak
2 5350.020	8.28	32.25	32.10	51.23	59.66	74.00	-14.34	Peak
3 5355.292	8.28	32.26	32.10	52.22	60.66	74.00	-13.34	Peak



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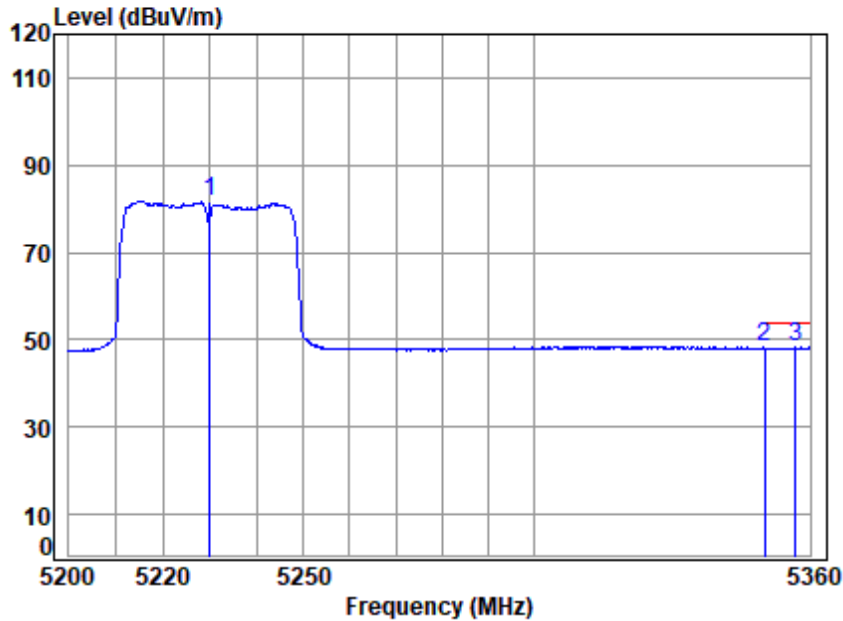
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5230 Band edge
 : 5G WIFI 11N40

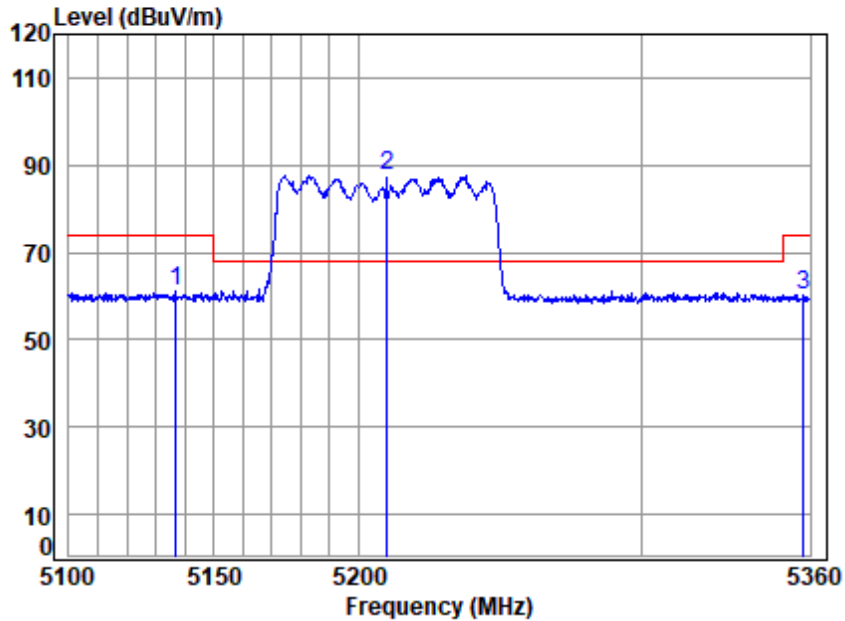
		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	8.29	31.97	31.93	73.56	81.89	-----	-----	Average
2	5350.020	8.28	32.25	32.10	39.71	48.14	54.00	-5.86	Average
3	5356.915	8.28	32.27	32.11	39.75	48.19	54.00	-5.81	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5210 Band edge
 : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5136.648	8.29	31.74	31.80	52.88	61.11	74.00	-12.89 peak
2	5210.000	8.29	31.92	31.90	79.27	87.58	68.20	19.38 peak
3	5357.602	8.28	32.27	32.11	51.81	60.25	74.00	-13.75 peak



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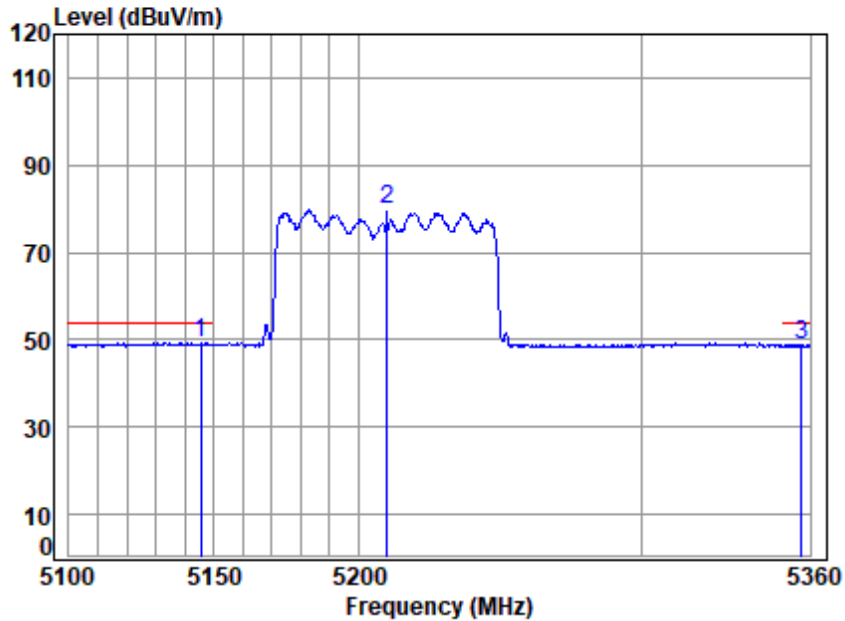
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT/00520AT
 Mode : 5210 Band edge
 : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5145.339	8.29	31.76	31.81	40.97	49.21	54.00	-4.79 Average
2	5210.000	8.29	31.92	31.90	71.51	79.82	-----	----- Average
3	5356.803	8.28	32.27	32.11	40.39	48.83	54.00	-5.17 Average



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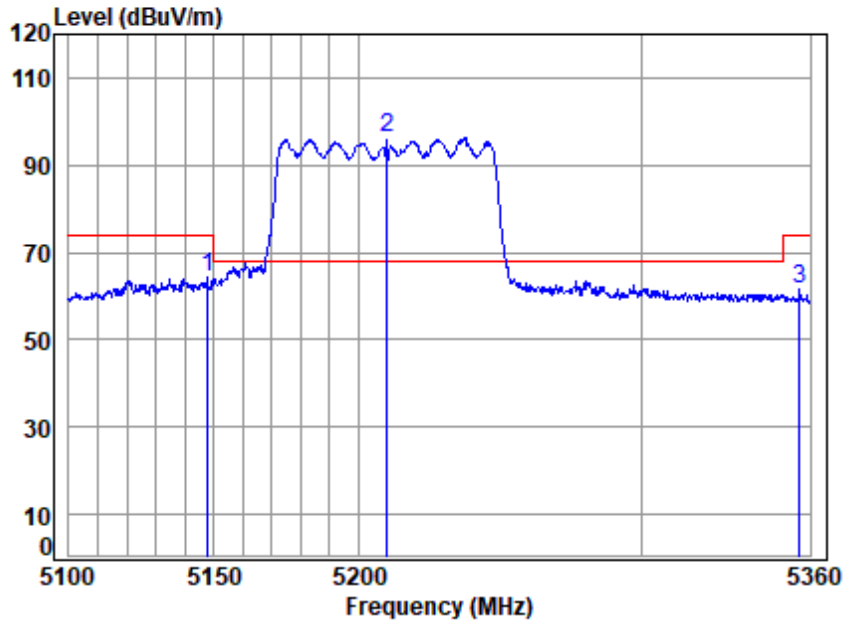
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5210 Band edge
 : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.643	8.29	31.77	31.81	56.06	64.31	74.00	-9.69 Peak
2	5210.000	8.29	31.92	31.90	88.04	96.35	68.20	28.15 Peak
3	5356.270	8.28	32.27	32.11	52.99	61.43	74.00	-12.57 Peak



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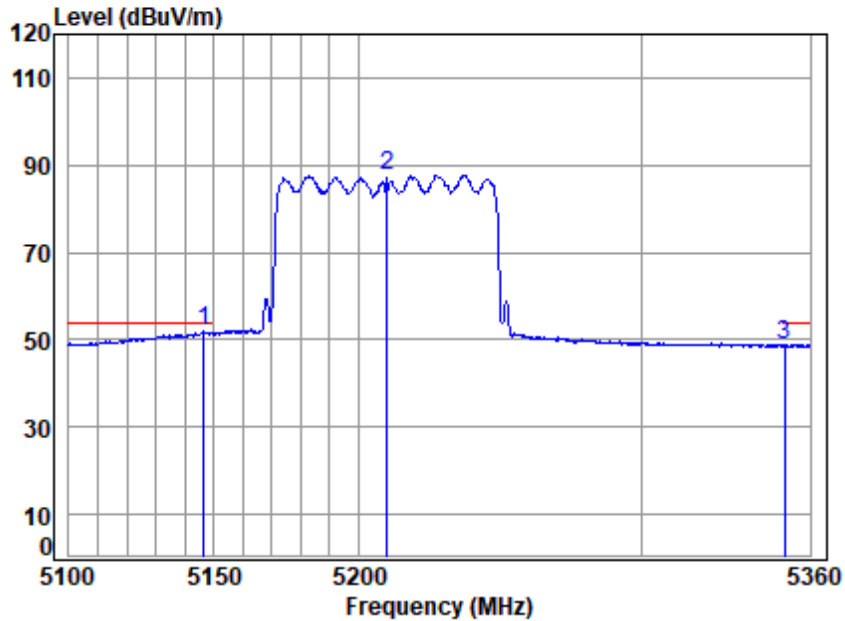
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT/00520AT
 Mode : 5210 Band edge
 : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.363	8.29	31.76	31.81	43.65	51.89	54.00	-2.11	Average
2	5210.000	8.29	31.92	31.90	79.46	87.77	-----	-----	Average
3	5350.680	8.28	32.25	32.10	40.34	48.77	54.00	-5.23	Average



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7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 41.7 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

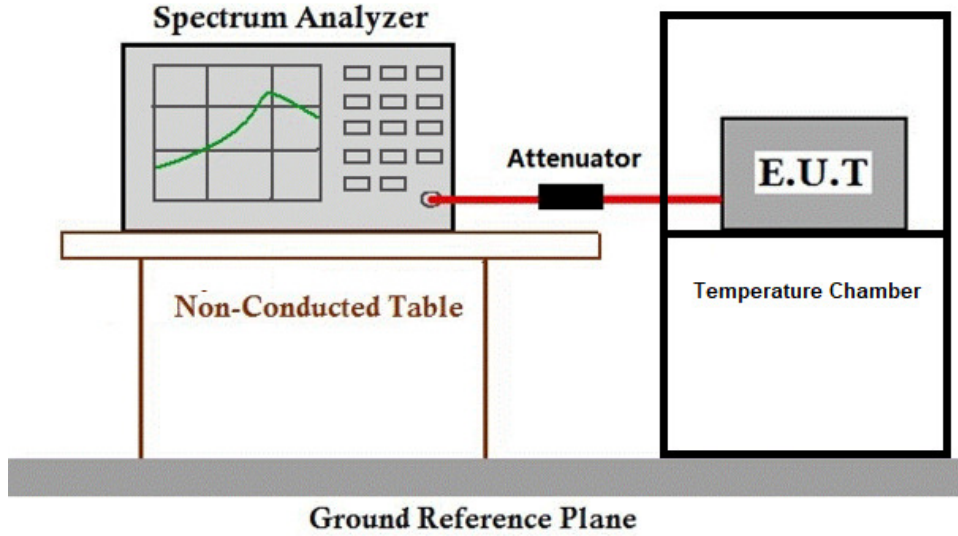


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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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
960-1000	500	3

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 52.1 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	09	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

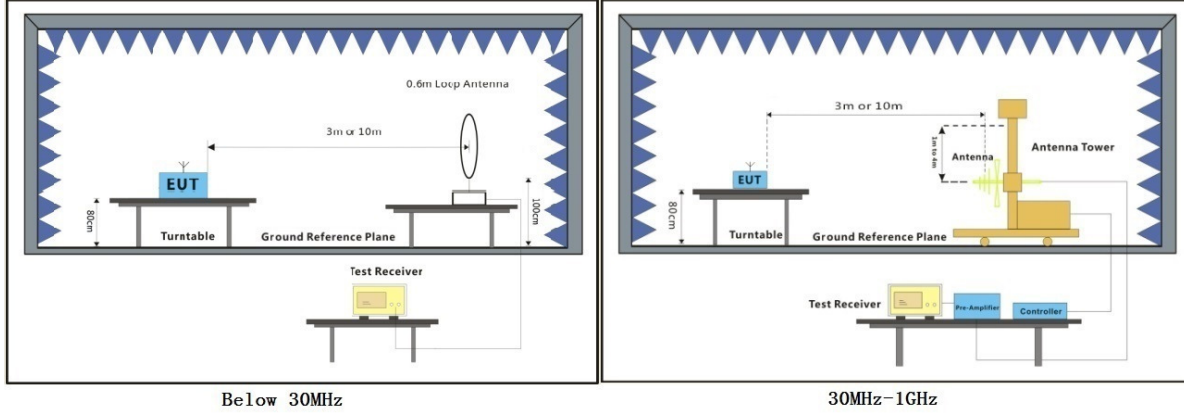


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7.10.3 Test Setup Diagram



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7.10.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11 a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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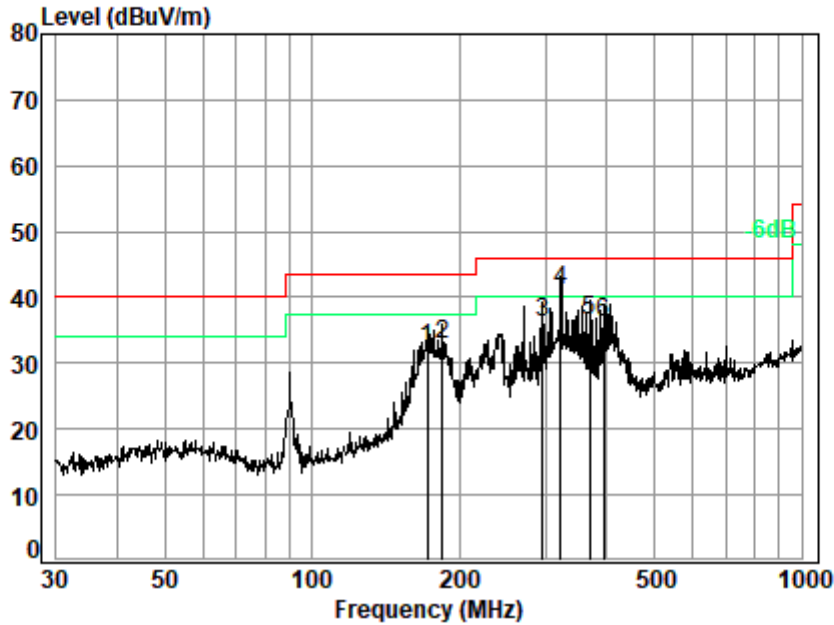
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00519AT
 Mode : 09

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	171.995	0.74	16.74	25.45	40.27	32.30	43.50	-11.20 QP
2	184.490	0.67	15.86	25.41	41.80	32.92	43.50	-10.58 QP
3	295.147	1.00	18.12	25.11	42.18	36.19	46.00	-9.81 QP
4	322.189	1.25	19.32	25.12	45.70	41.15	46.00	-4.85 QP
5	368.112	1.58	19.80	25.16	40.23	36.45	46.00	-9.55 QP
6	393.472	1.66	20.62	25.18	38.95	36.05	46.00	-9.95 QP



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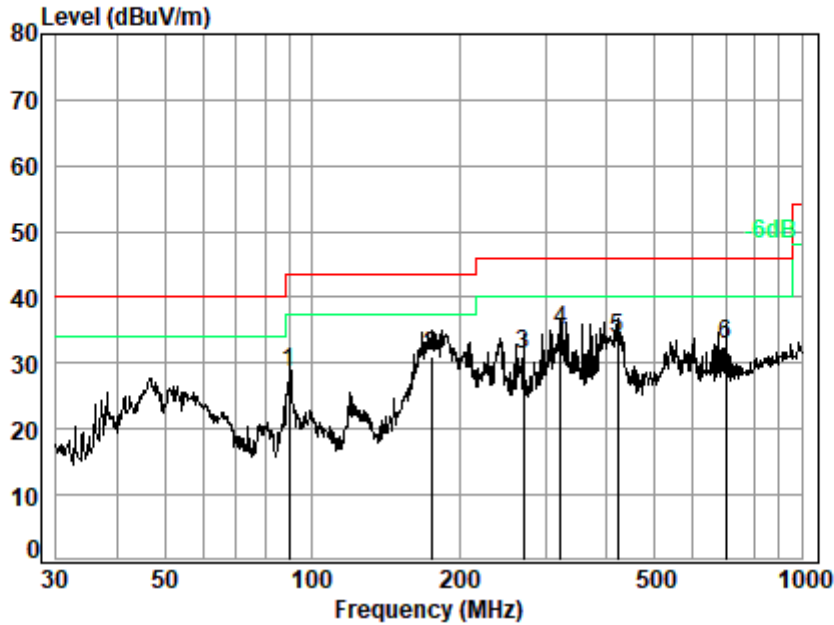
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Report No.: FYCR221200051905

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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00519AT
 Mode : 09

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	89.905	0.67	13.61	25.81	40.03	28.50	43.50	-15.00 QP
2	175.037	0.71	16.52	25.44	39.25	31.04	43.50	-12.46 QP
3	270.375	0.92	17.28	25.17	38.38	31.41	46.00	-14.59 QP
4	322.189	1.25	19.32	25.12	39.44	34.89	46.00	-11.11 QP
5	420.580	1.60	21.08	25.20	36.38	33.86	46.00	-12.14 QP
6	699.305	1.73	25.62	26.05	31.61	32.91	46.00	-13.09 QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2212000519AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2212000519AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.070	2.182	94.87	0.23	3.64
		5200	2.071	2.201	94.09	0.26	4.47
		5240	2.071	2.236	92.62	0.33	5.54
802.11n (HT20)	SISO	5180	1.911	2.093	91.30	0.40	6.29
		5200	1.922	2.094	91.79	0.37	5.89
		5240	1.921	2.075	92.58	0.33	4.17
802.11n (HT40)	SISO	5190	0.944	1.108	85.20	0.70	10.95
		5230	0.945	1.117	84.60	0.73	11.63
802.11ac (VHT20)	SISO	5180	1.933	2.087	92.62	0.33	5.08
		5200	1.934	2.078	93.07	0.31	5.06
		5240	1.939	2.097	92.47	0.34	5.96
802.11ac (VHT40)	SISO	5190	0.954	1.125	84.80	0.72	11.56
		5230	0.953	1.125	84.71	0.72	10.66
802.11ac (VHT80)	SISO	5210	0.460	0.633	72.67	1.39	16.51

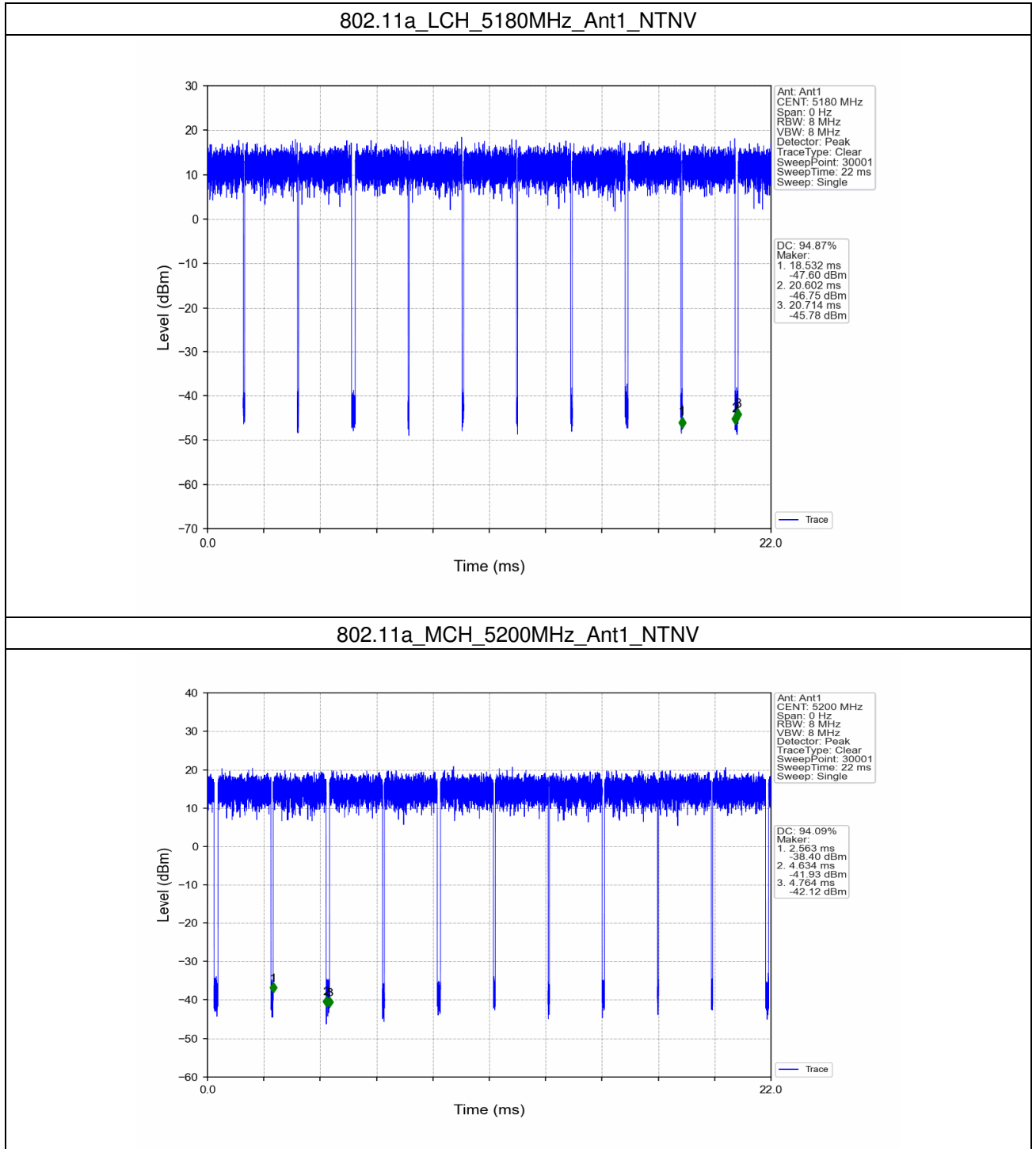


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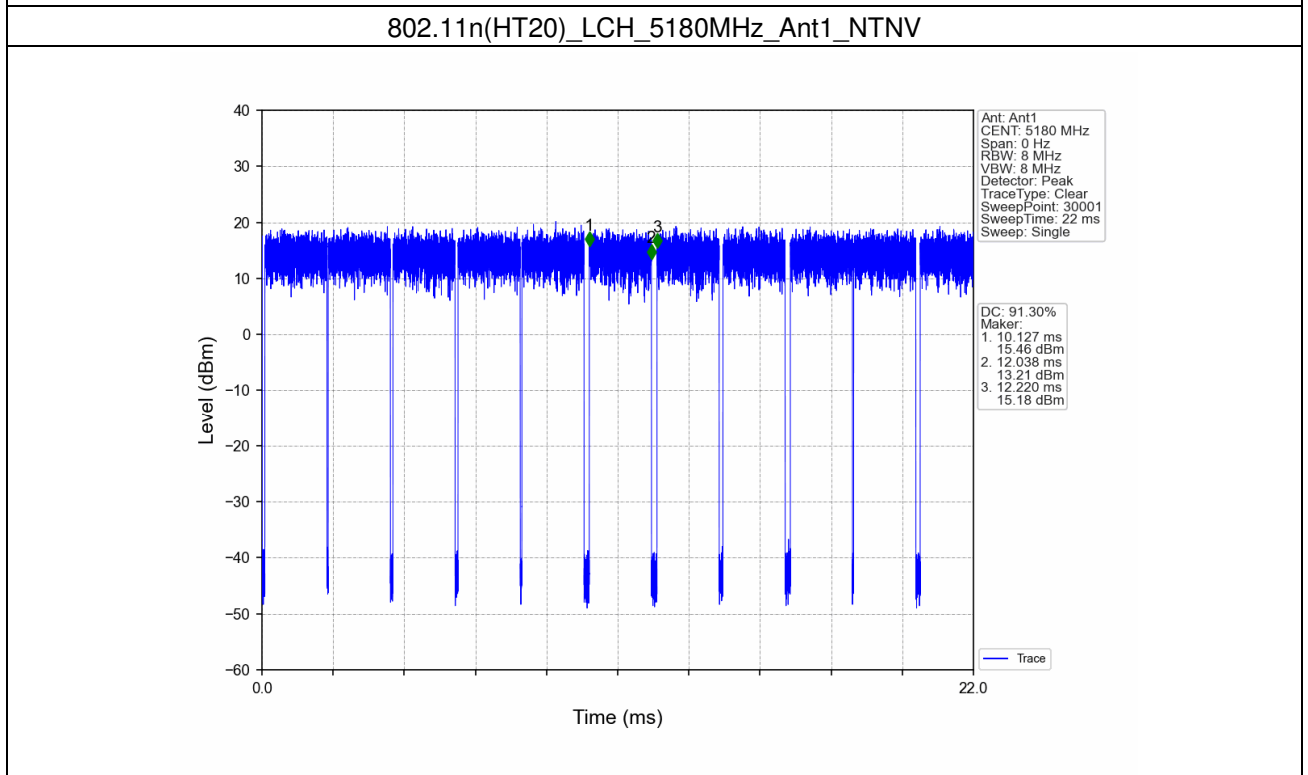
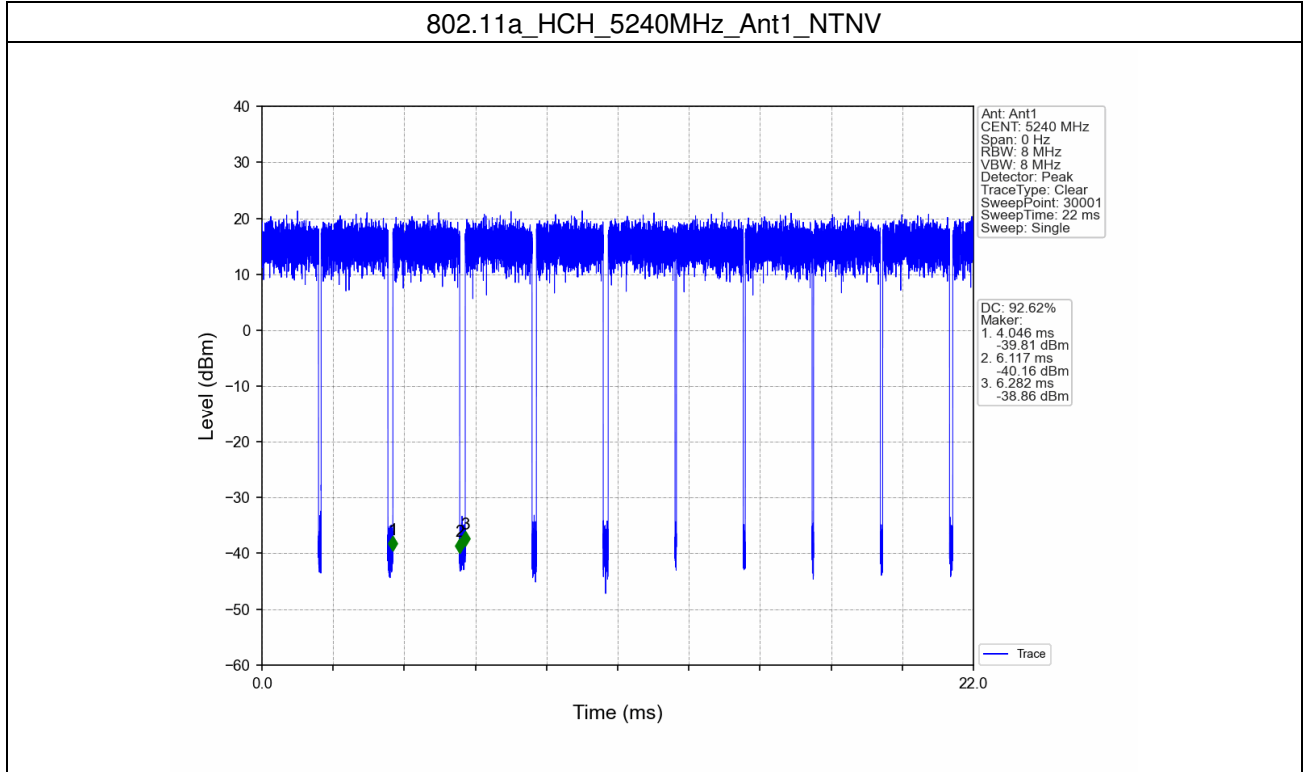
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1.1.2 Test Graph

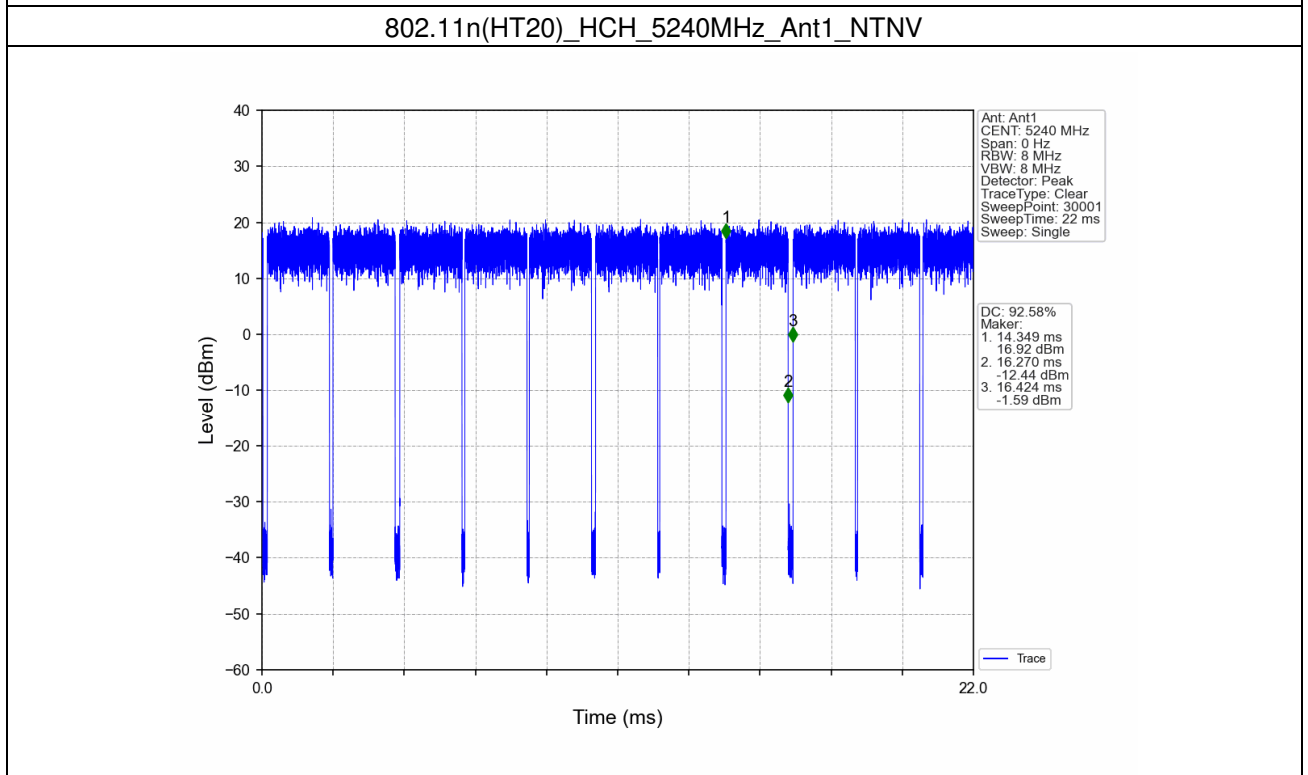
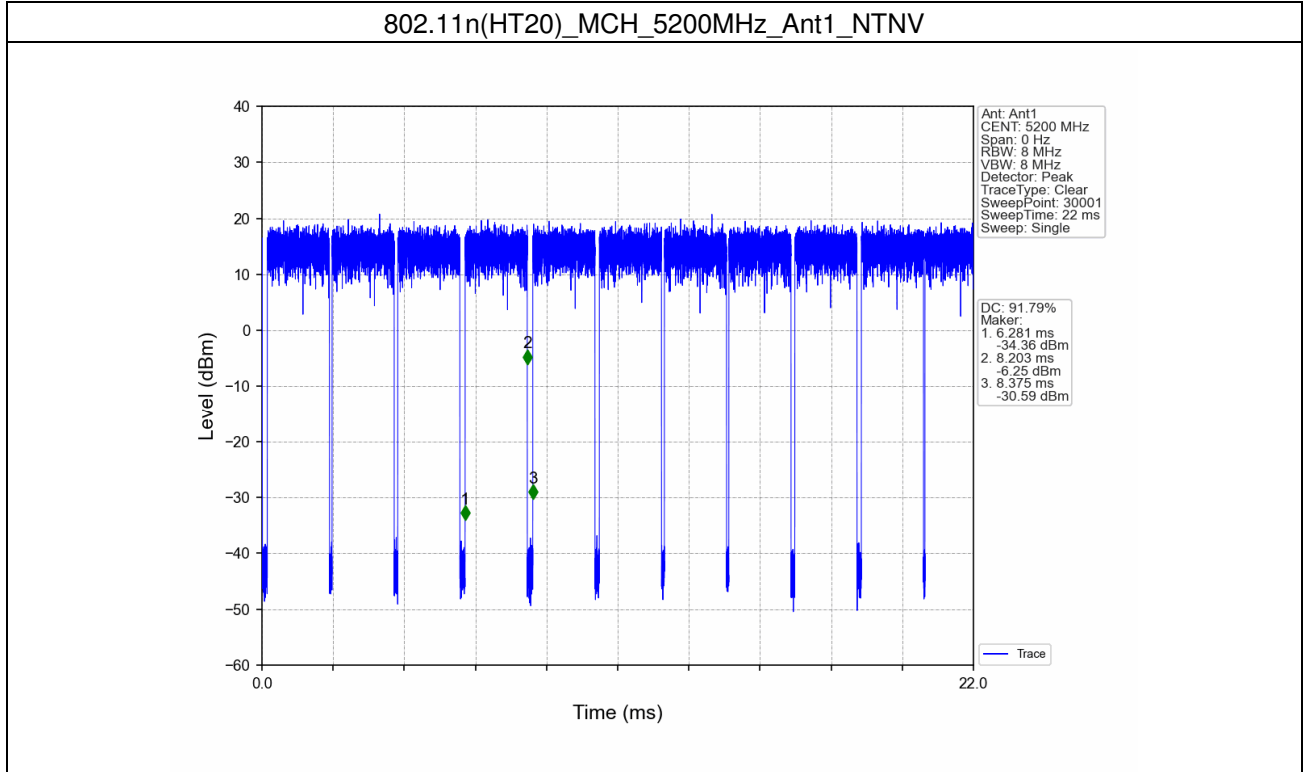


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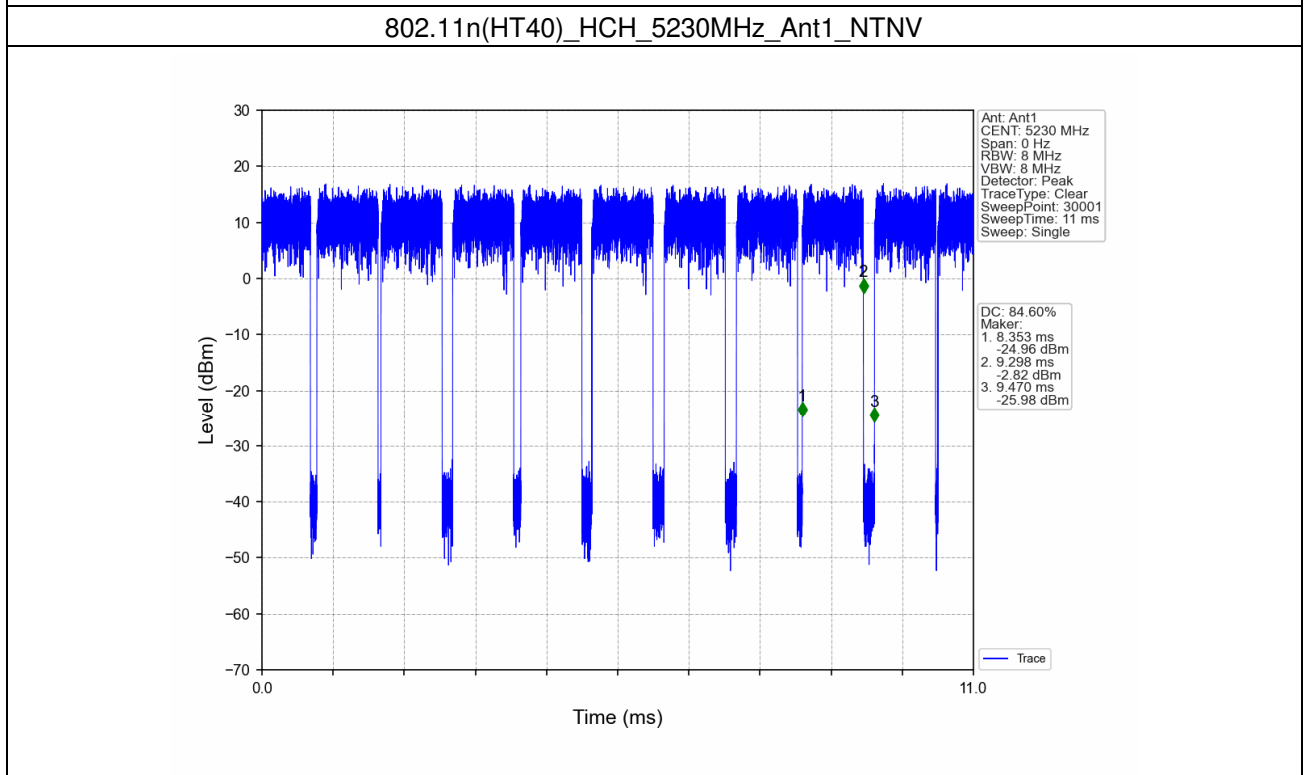
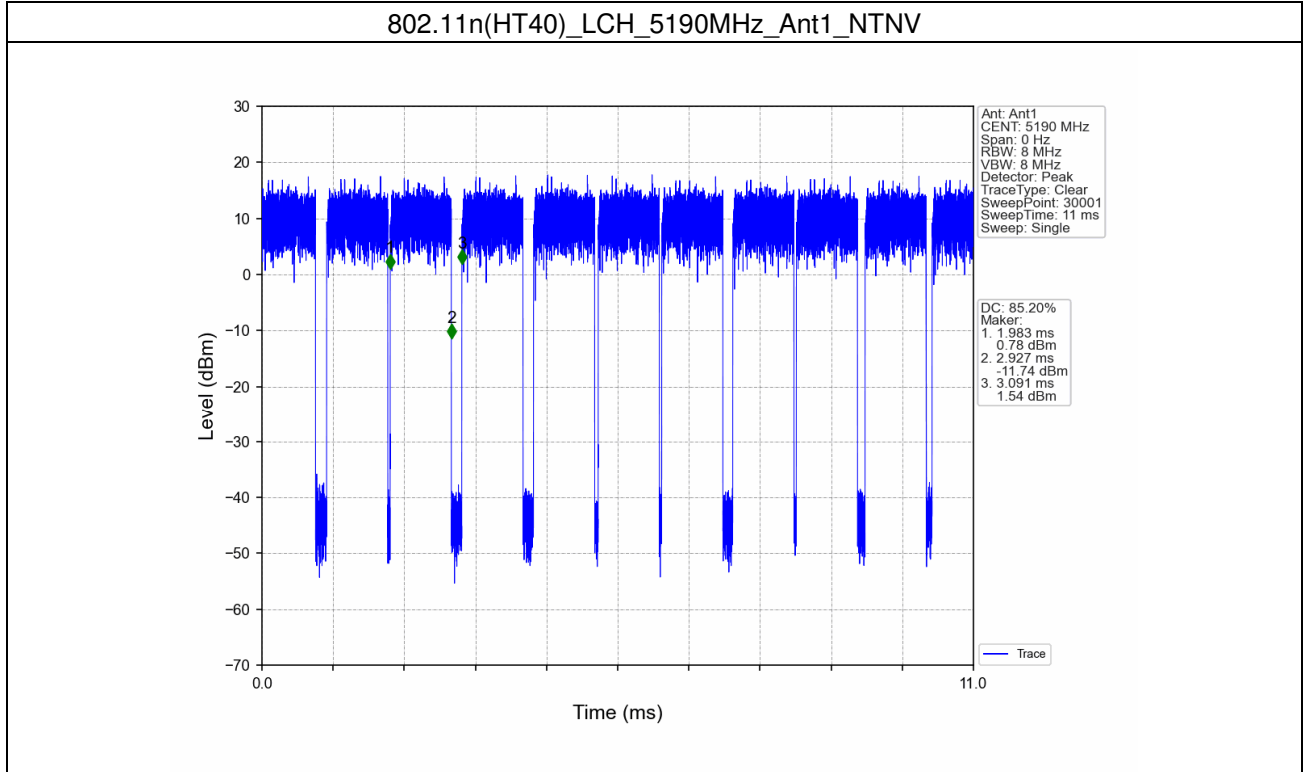
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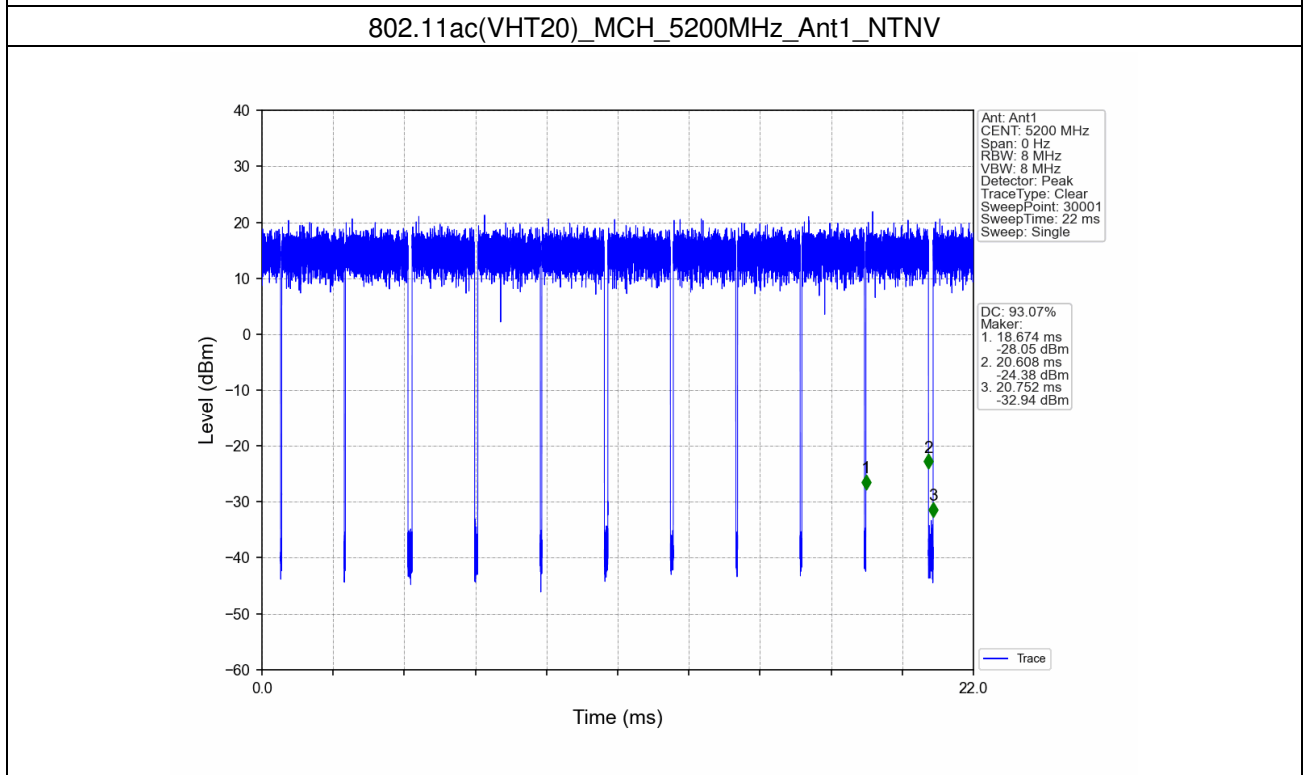
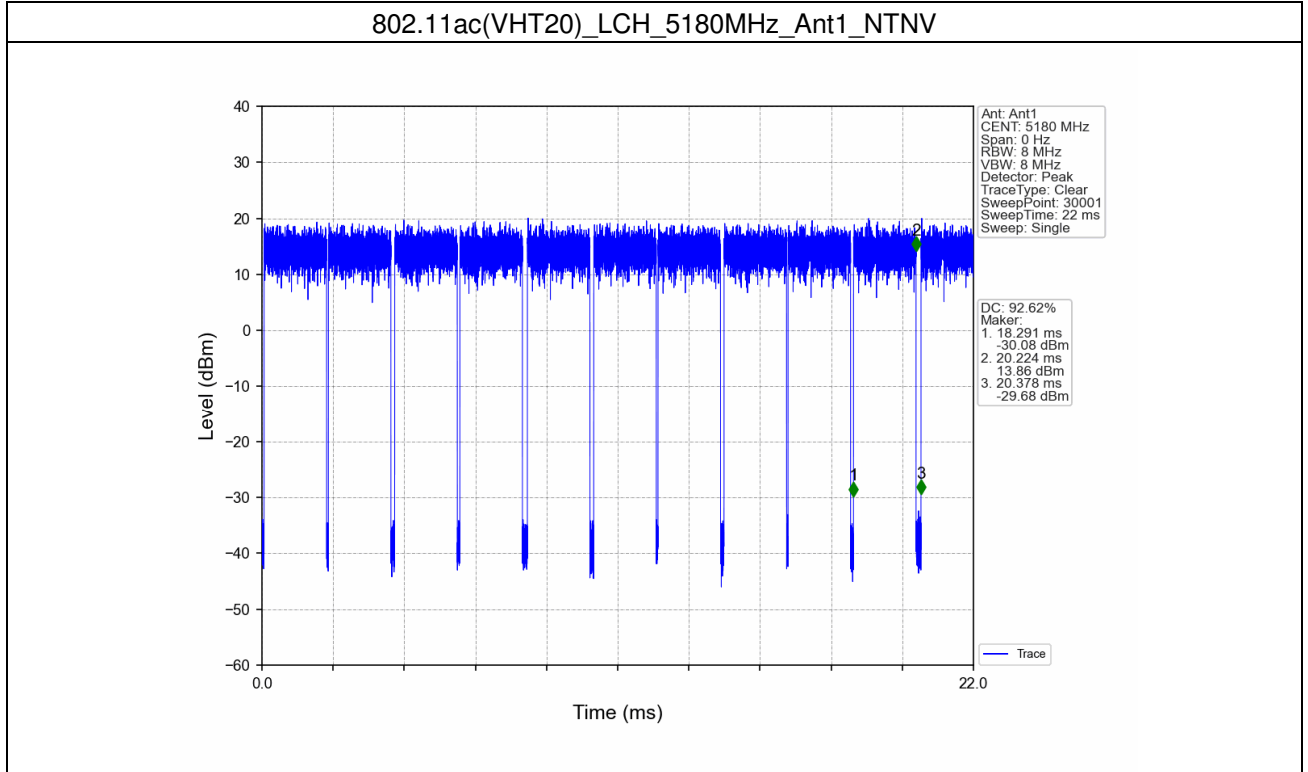
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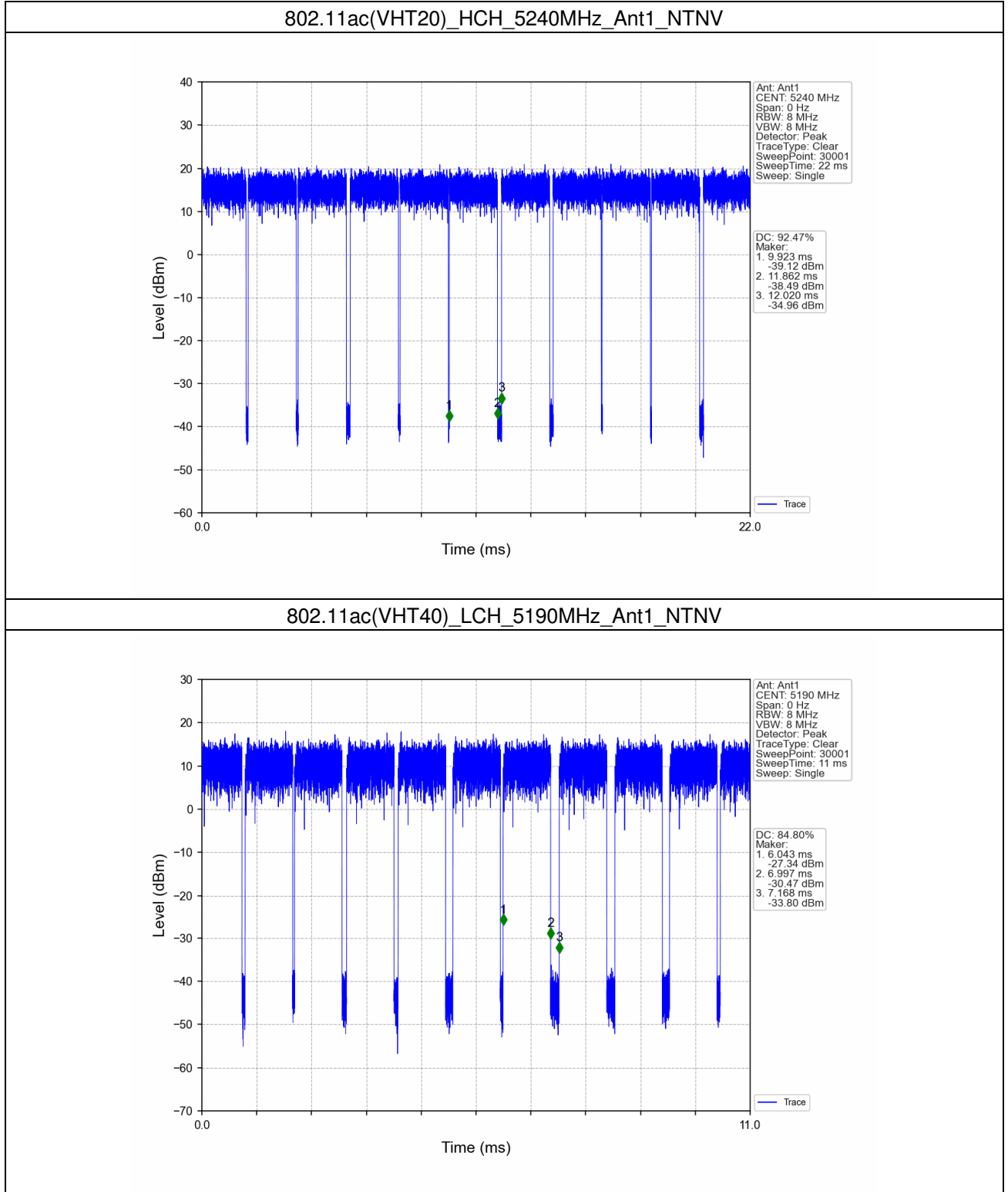
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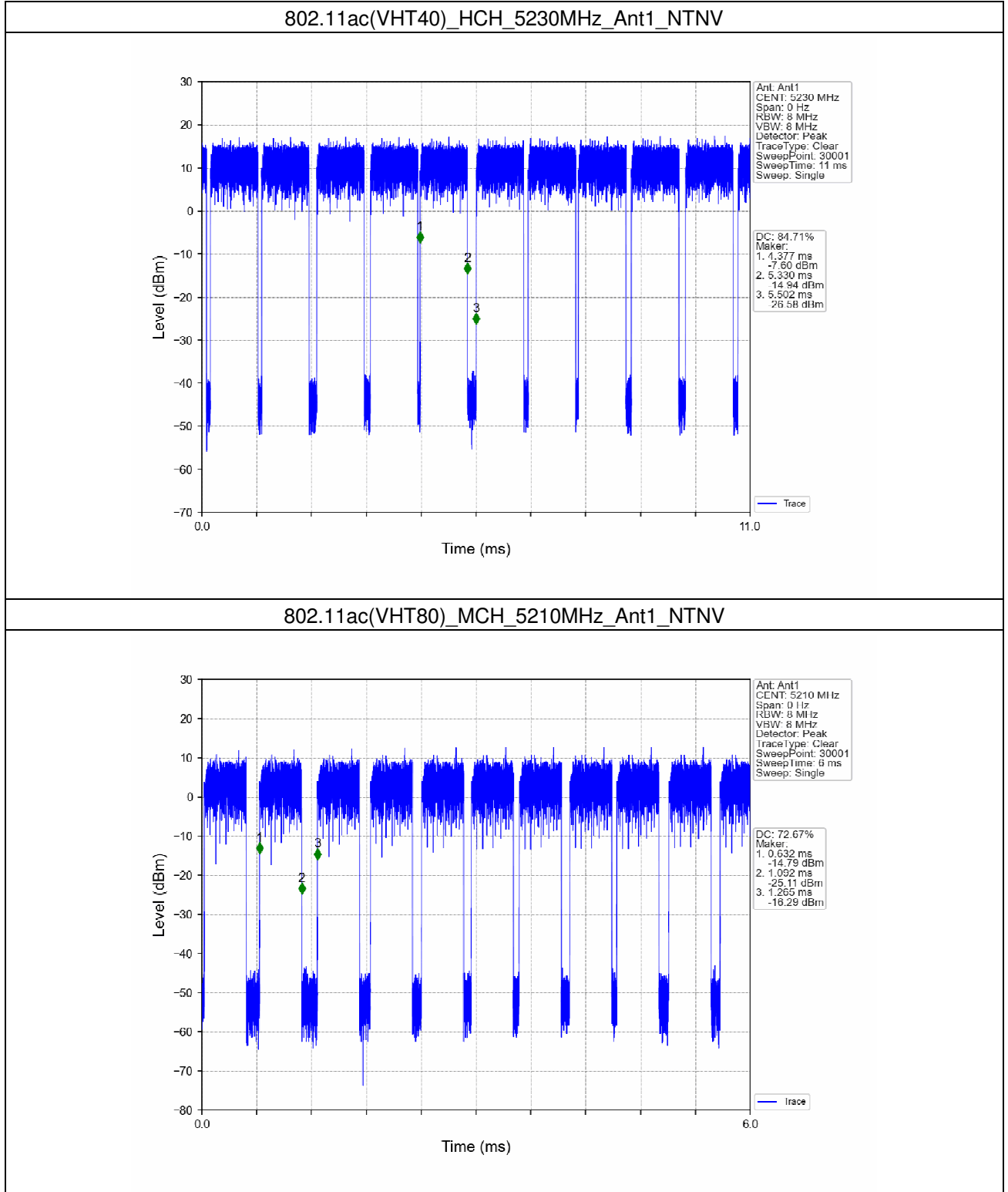


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2. Bandwidth

2.1 OBW

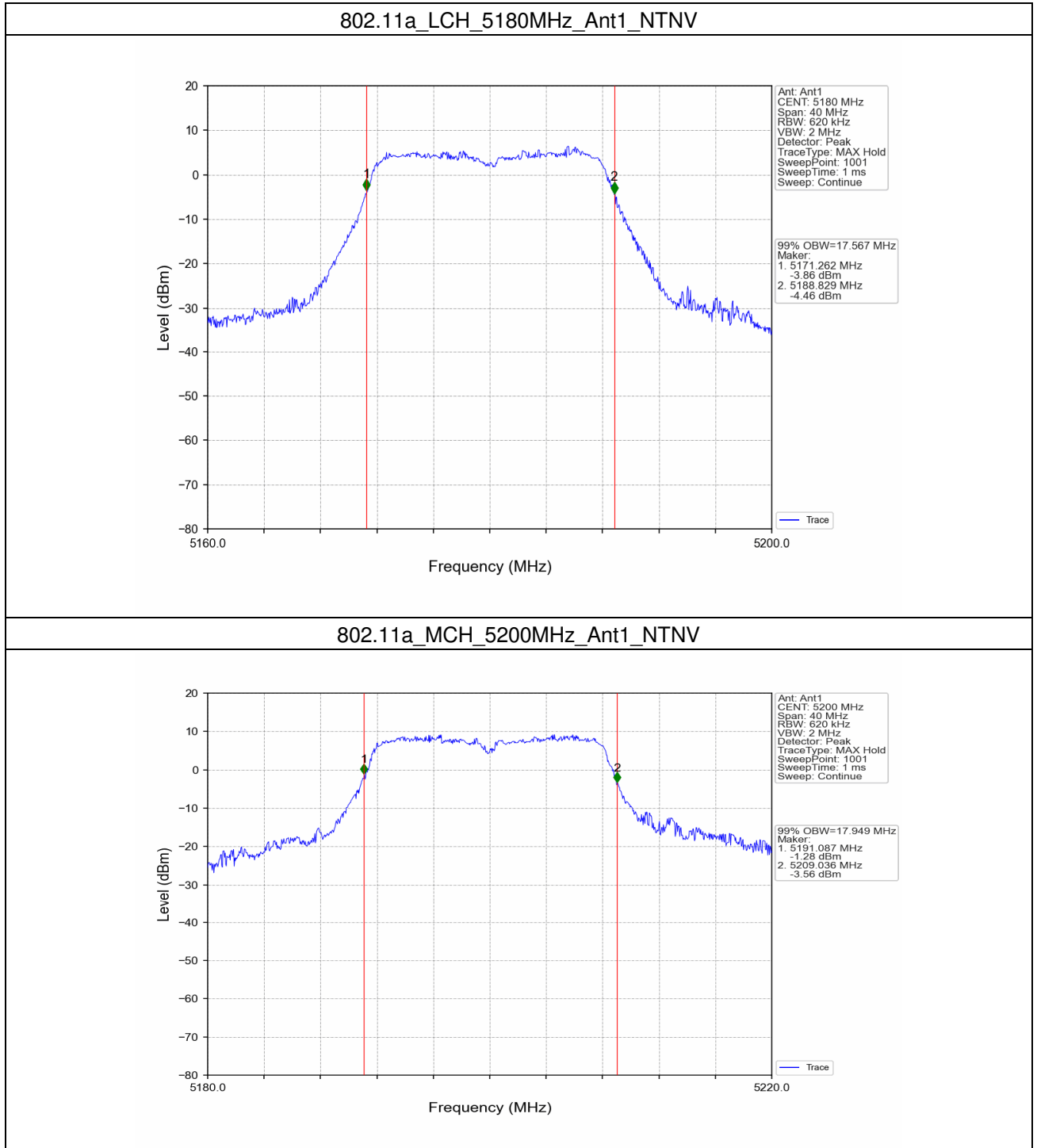
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.567	Pass
		5200	1	17.949	Pass
		5240	1	19.765	Pass
802.11n (HT20)	SISO	5180	1	18.795	Pass
		5200	1	18.801	Pass
		5240	1	19.074	Pass
802.11n (HT40)	SISO	5190	1	37.302	Pass
		5230	1	37.573	Pass
802.11ac (VHT20)	SISO	5180	1	18.745	Pass
		5200	1	18.813	Pass
		5240	1	19.110	Pass
802.11ac (VHT40)	SISO	5190	1	37.245	Pass
		5230	1	37.336	Pass
802.11ac (VHT80)	SISO	5210	1	77.325	Pass



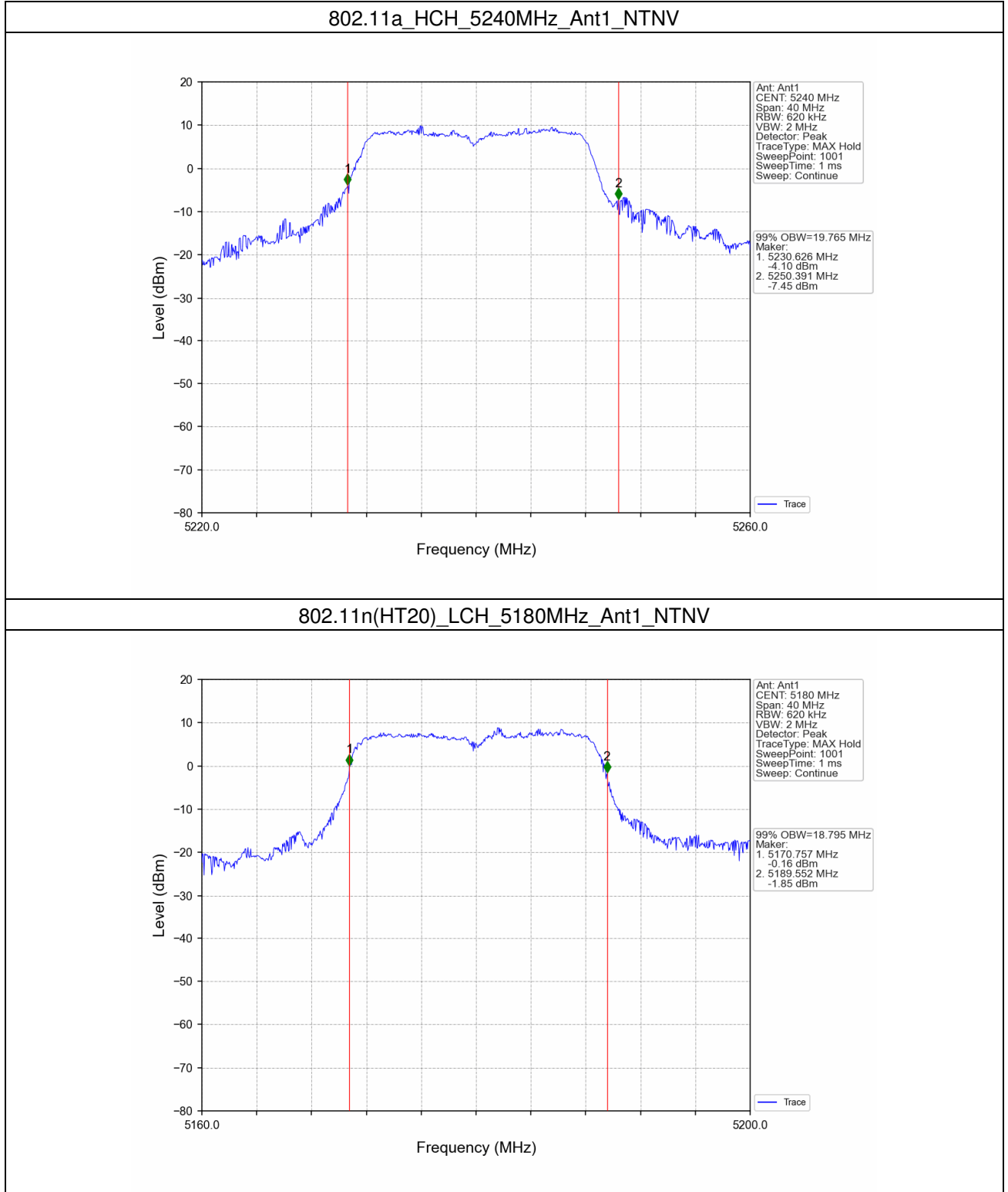
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2.1.2 Test Graph



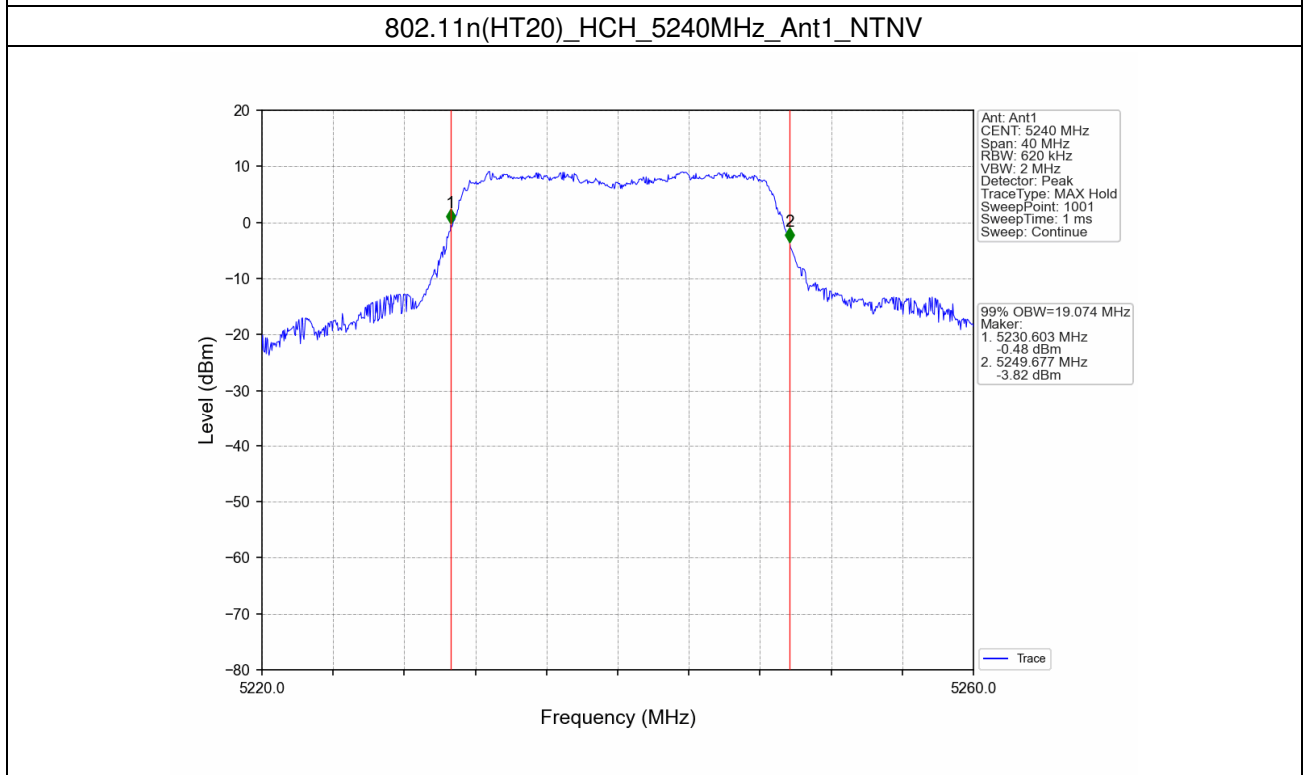
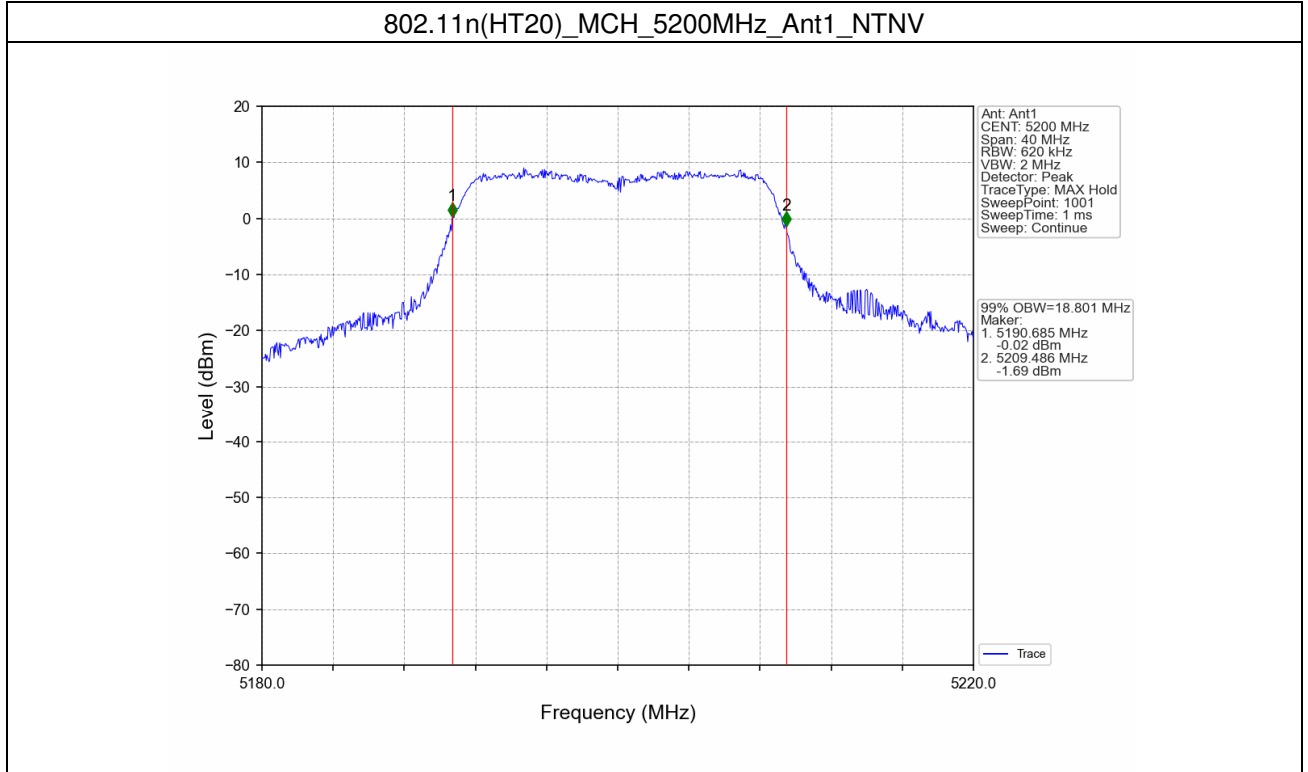
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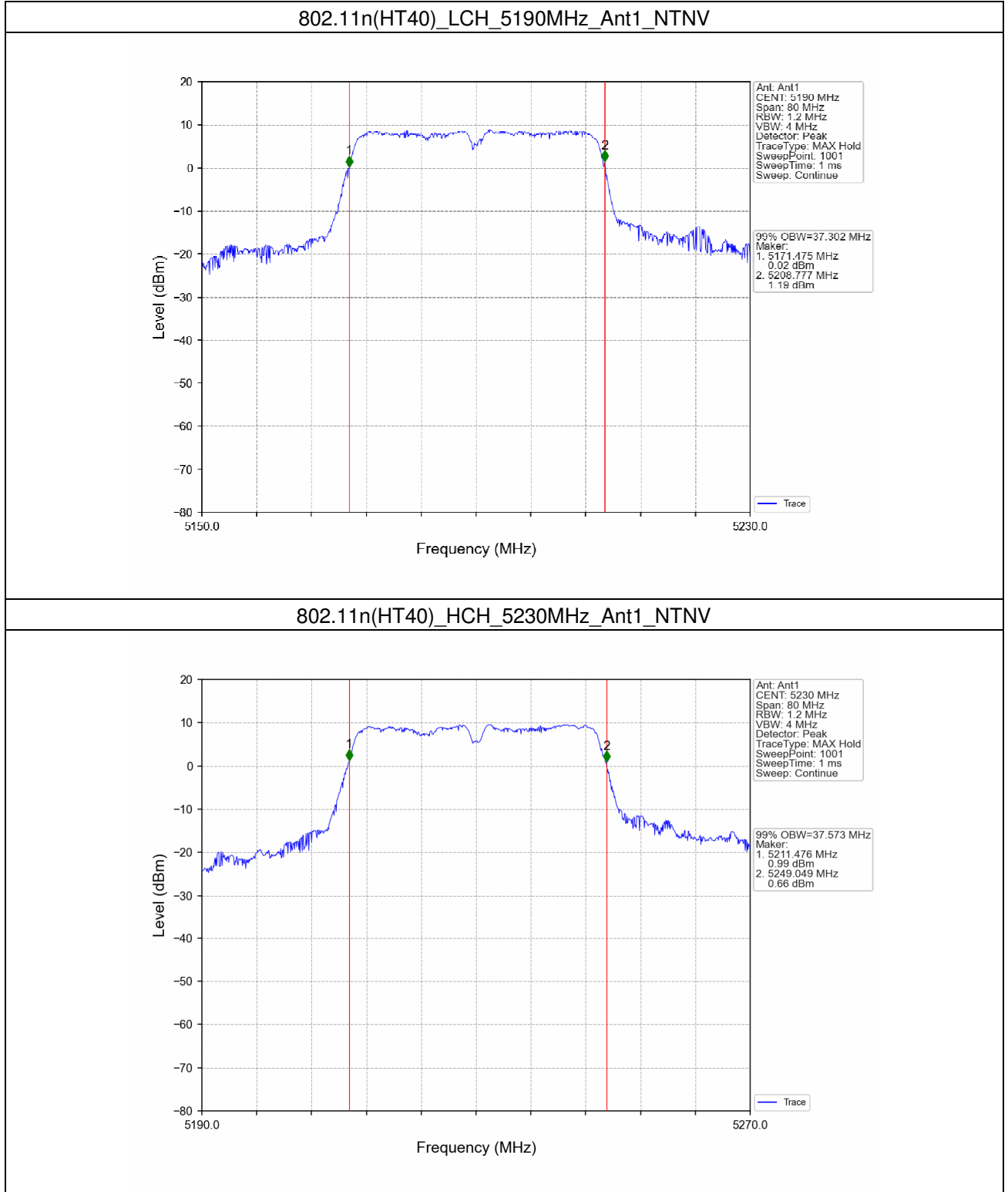


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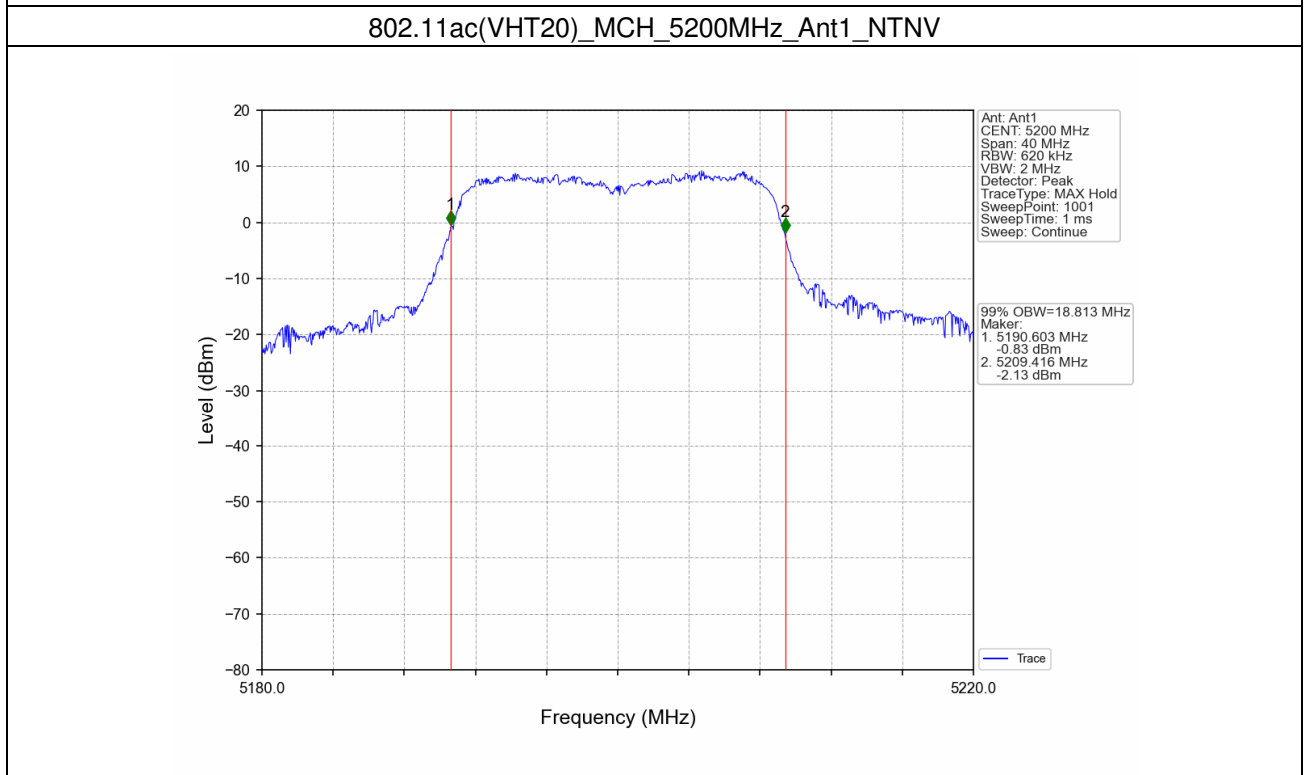
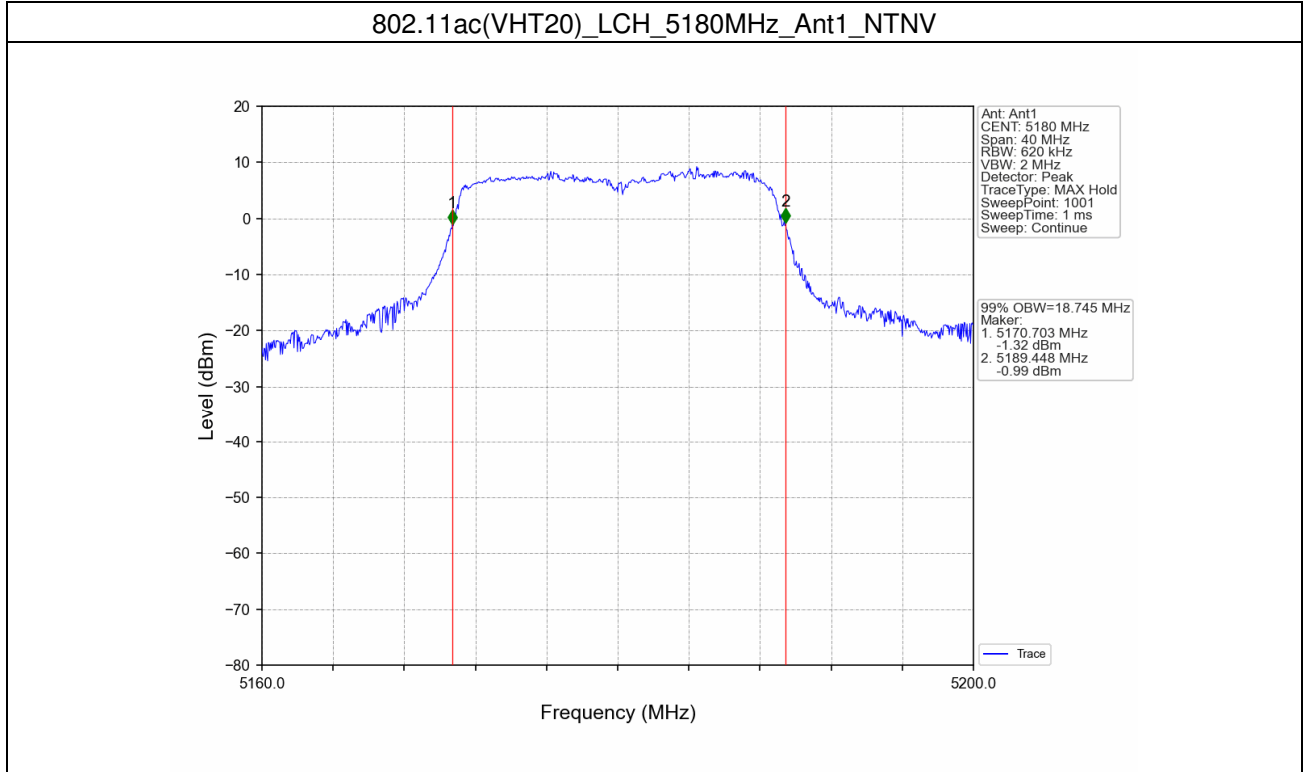


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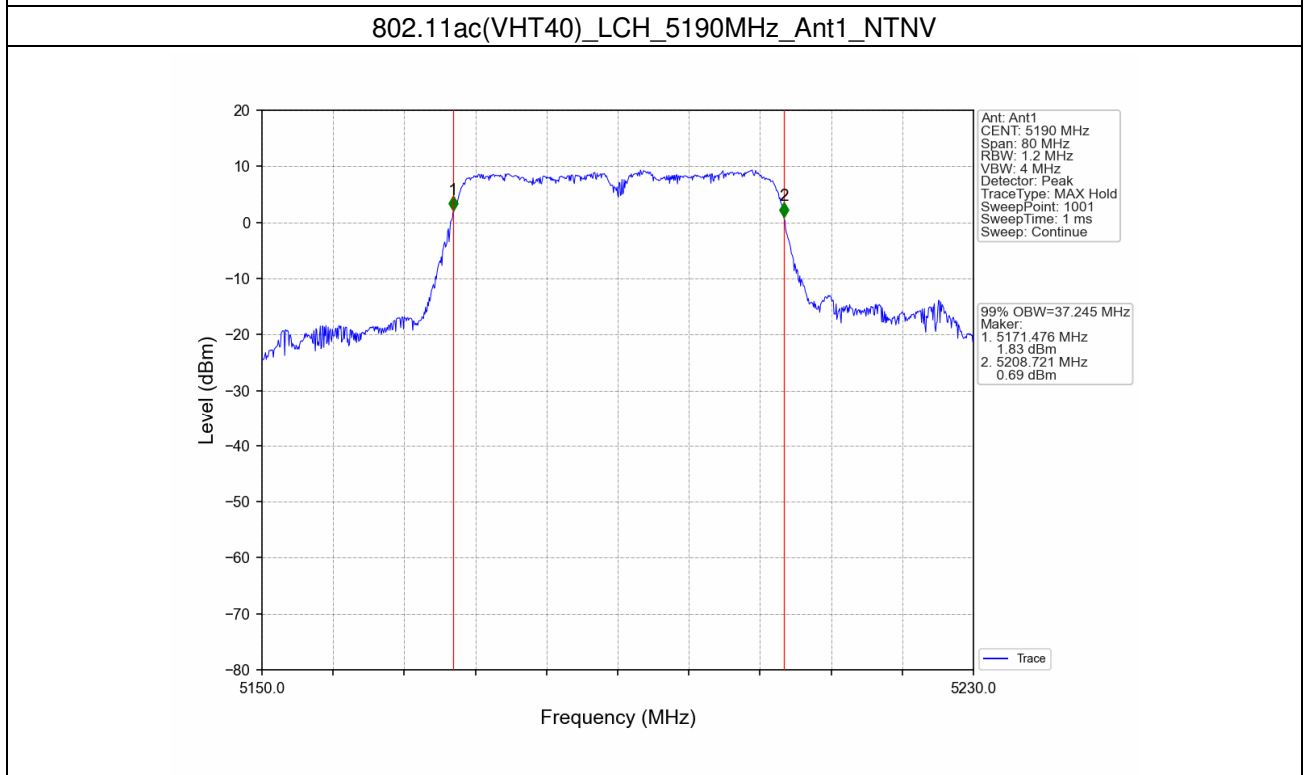
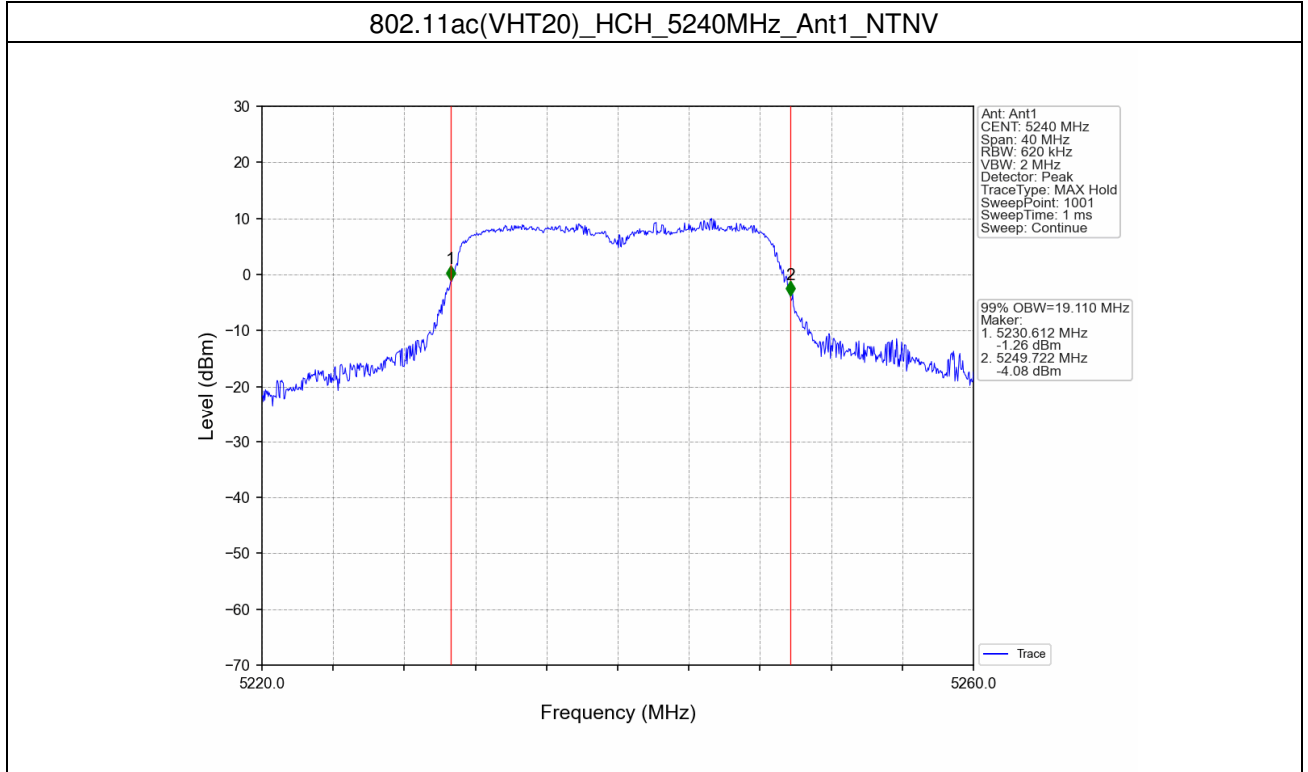


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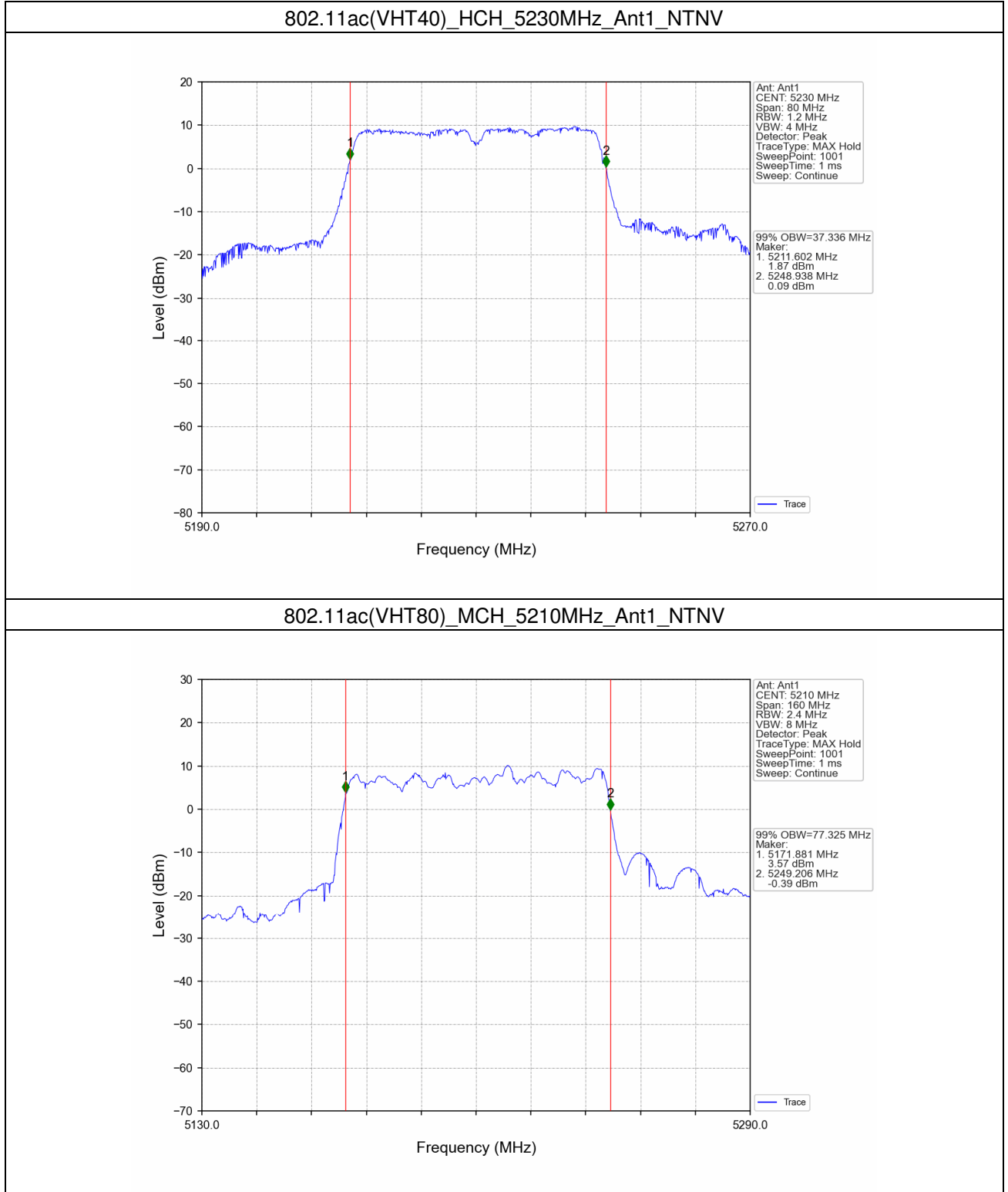
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051905

Page: 112 of 133

2.2 26dB BW

2.2.1 Test Result

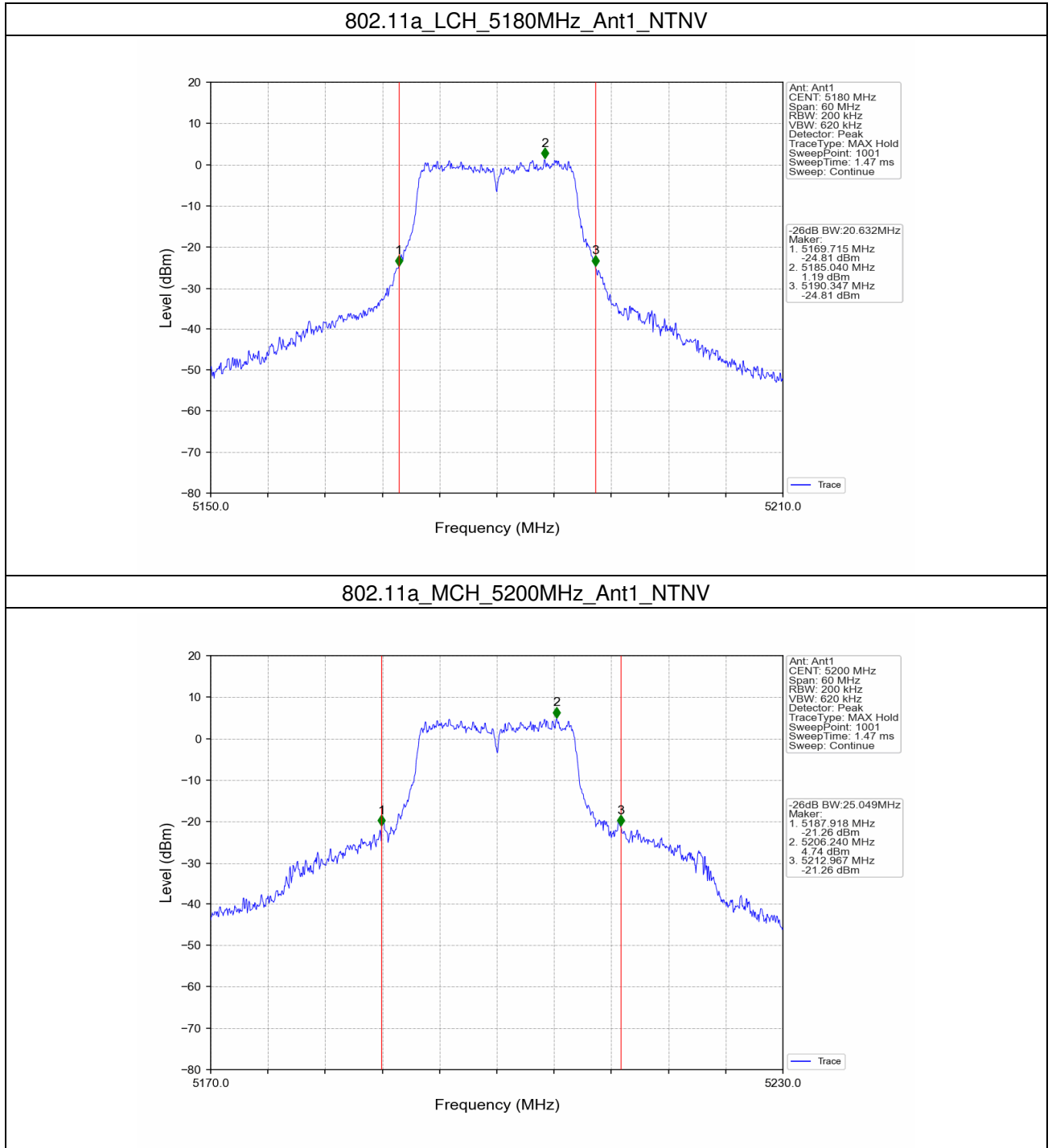
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	20.632	Pass
		5200	1	25.049	Pass
		5240	1	29.437	Pass
802.11n (HT20)	SISO	5180	1	23.693	Pass
		5200	1	22.778	Pass
		5240	1	26.820	Pass
802.11n (HT40)	SISO	5190	1	54.979	Pass
		5230	1	55.059	Pass
802.11ac (VHT20)	SISO	5180	1	23.816	Pass
		5200	1	25.181	Pass
		5240	1	27.727	Pass
802.11ac (VHT40)	SISO	5190	1	57.279	Pass
		5230	1	58.603	Pass
802.11ac (VHT80)	SISO	5210	1	91.605	Pass



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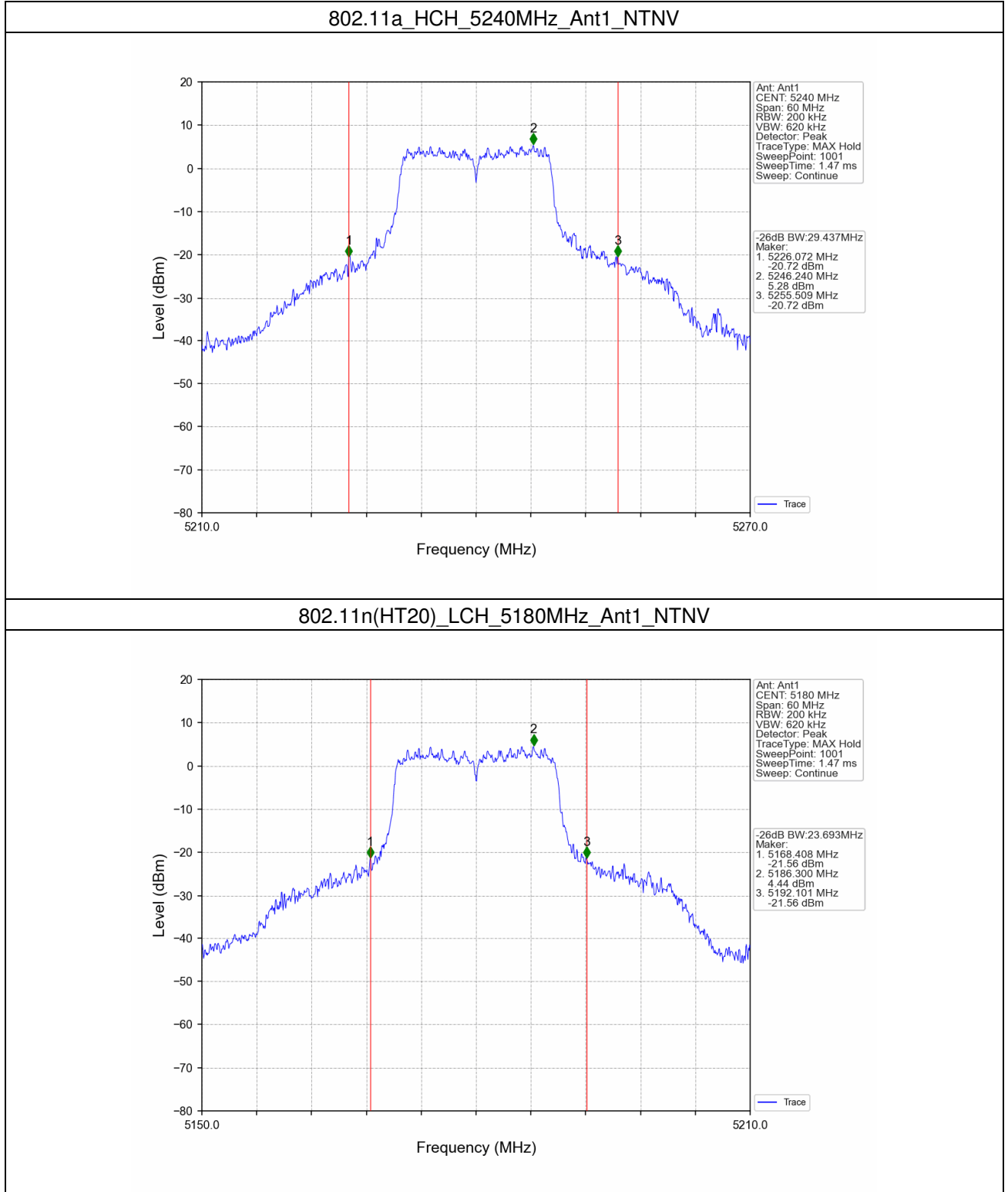
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2.2.2 Test Graph



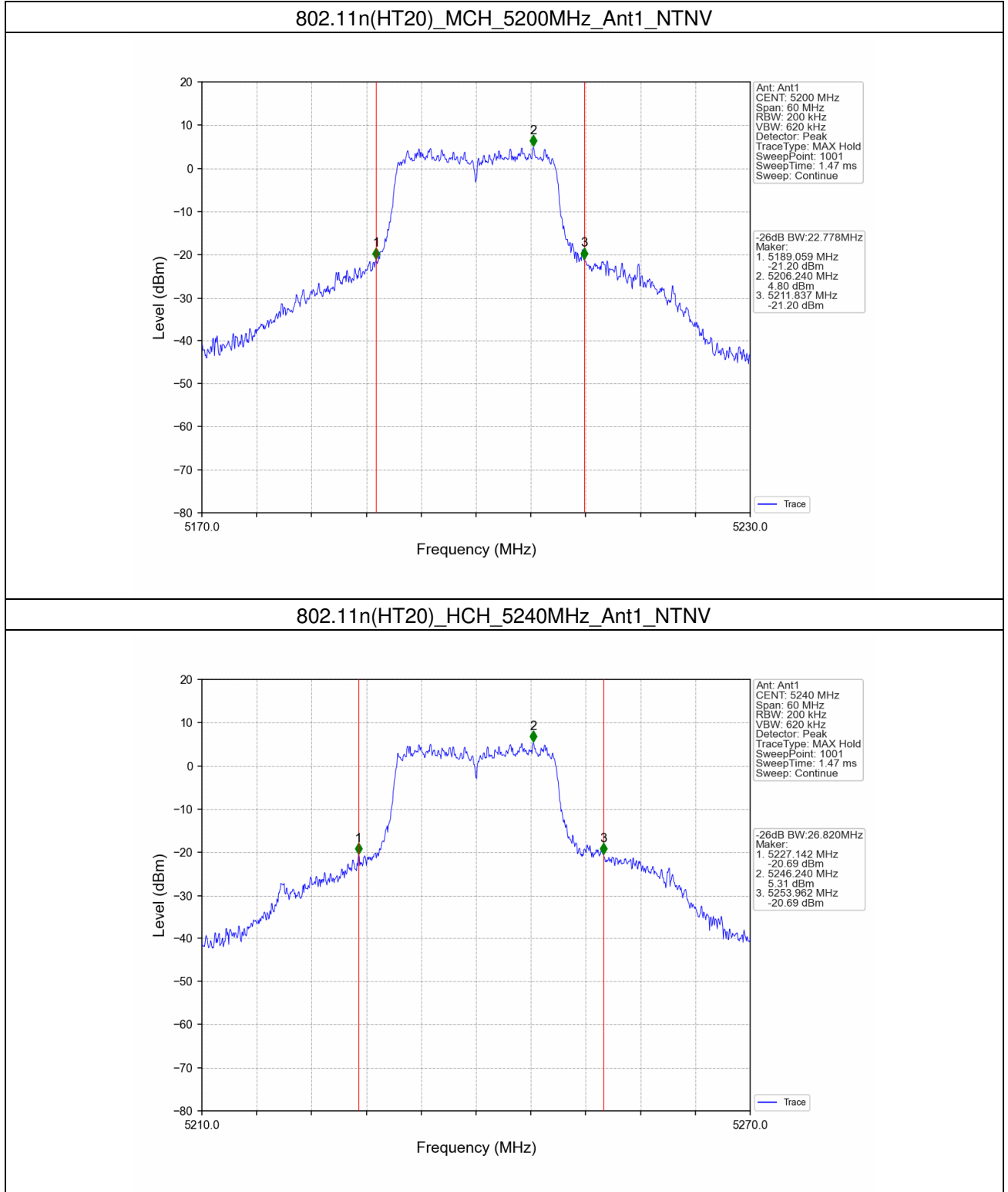
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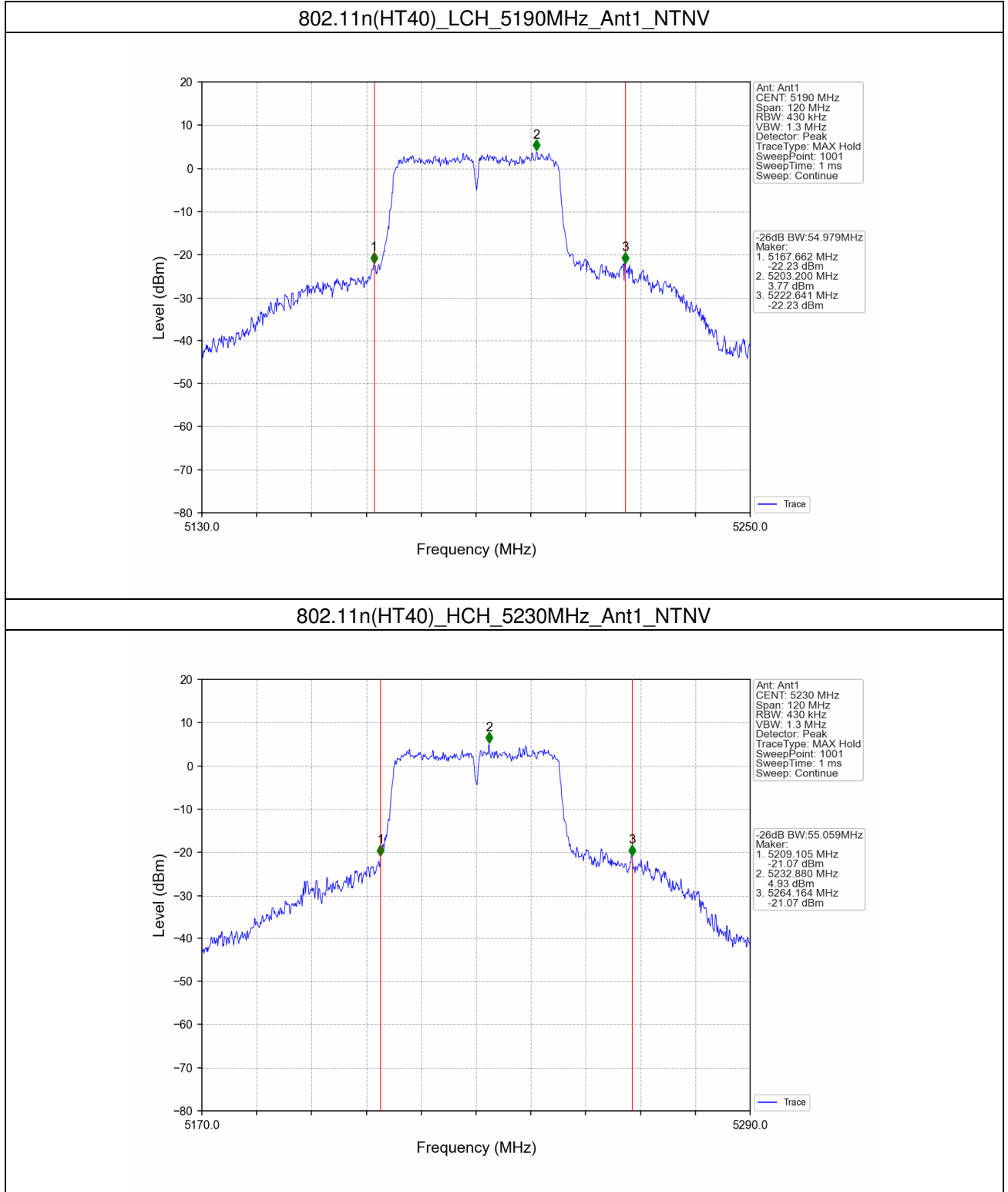
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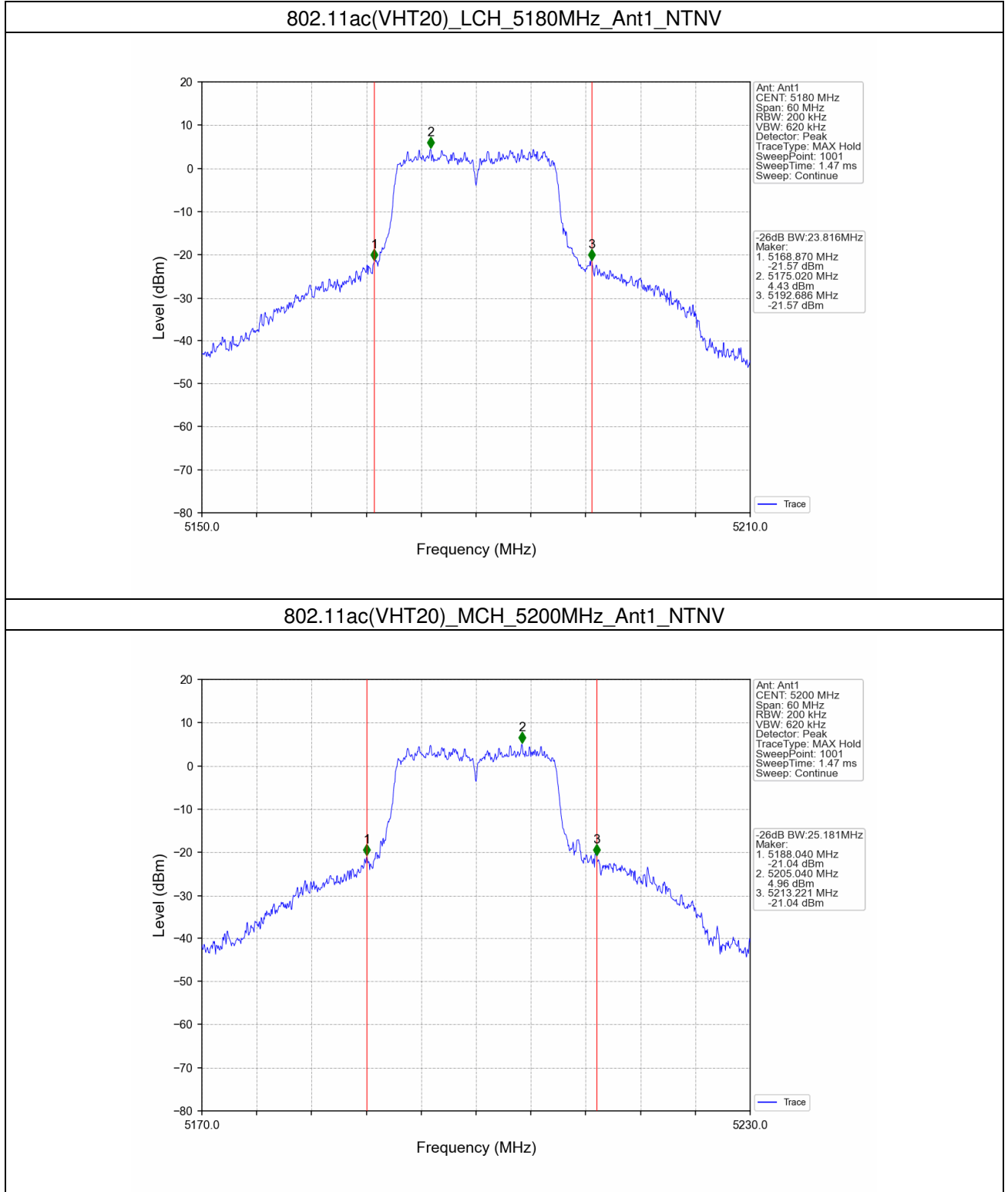
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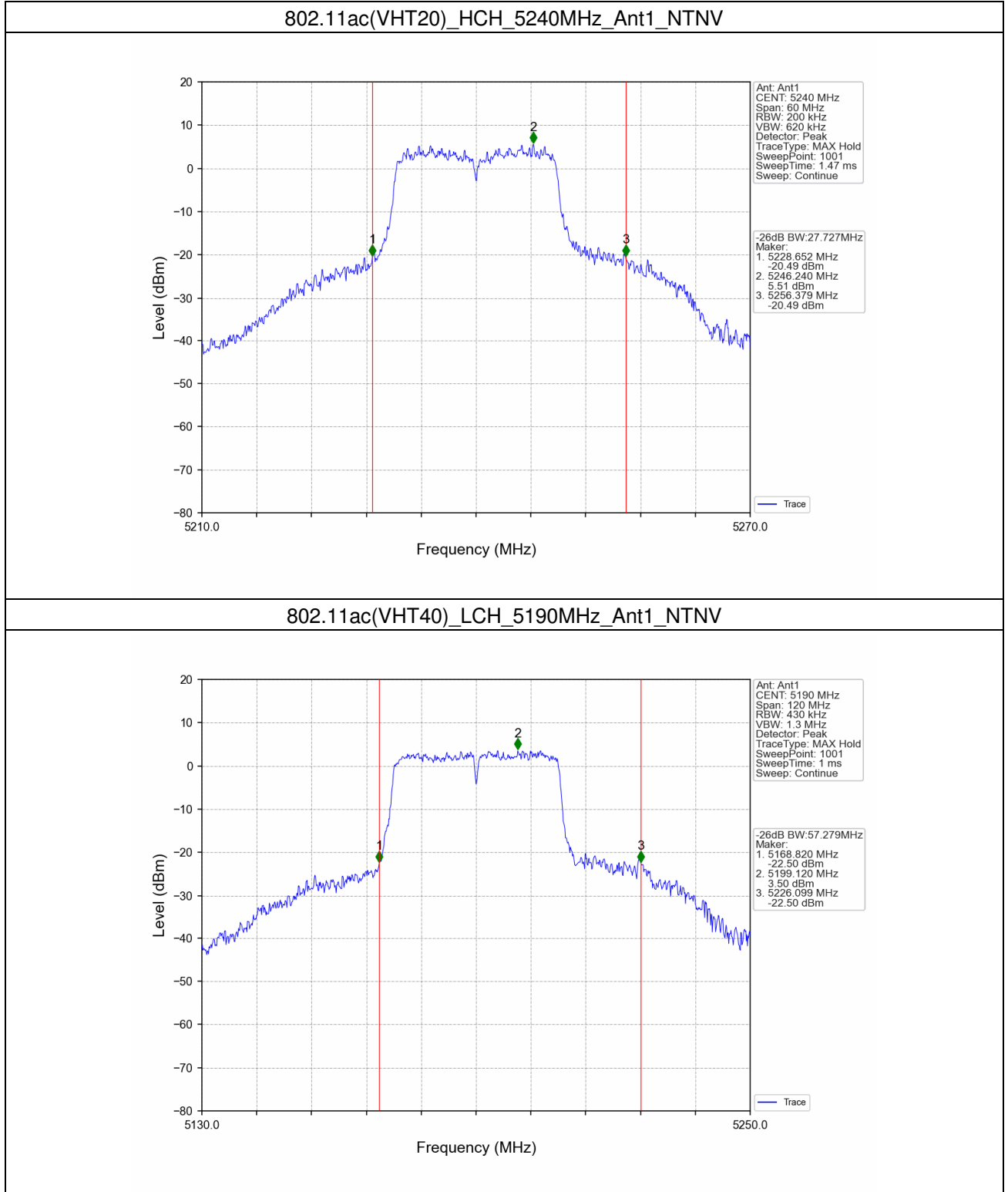
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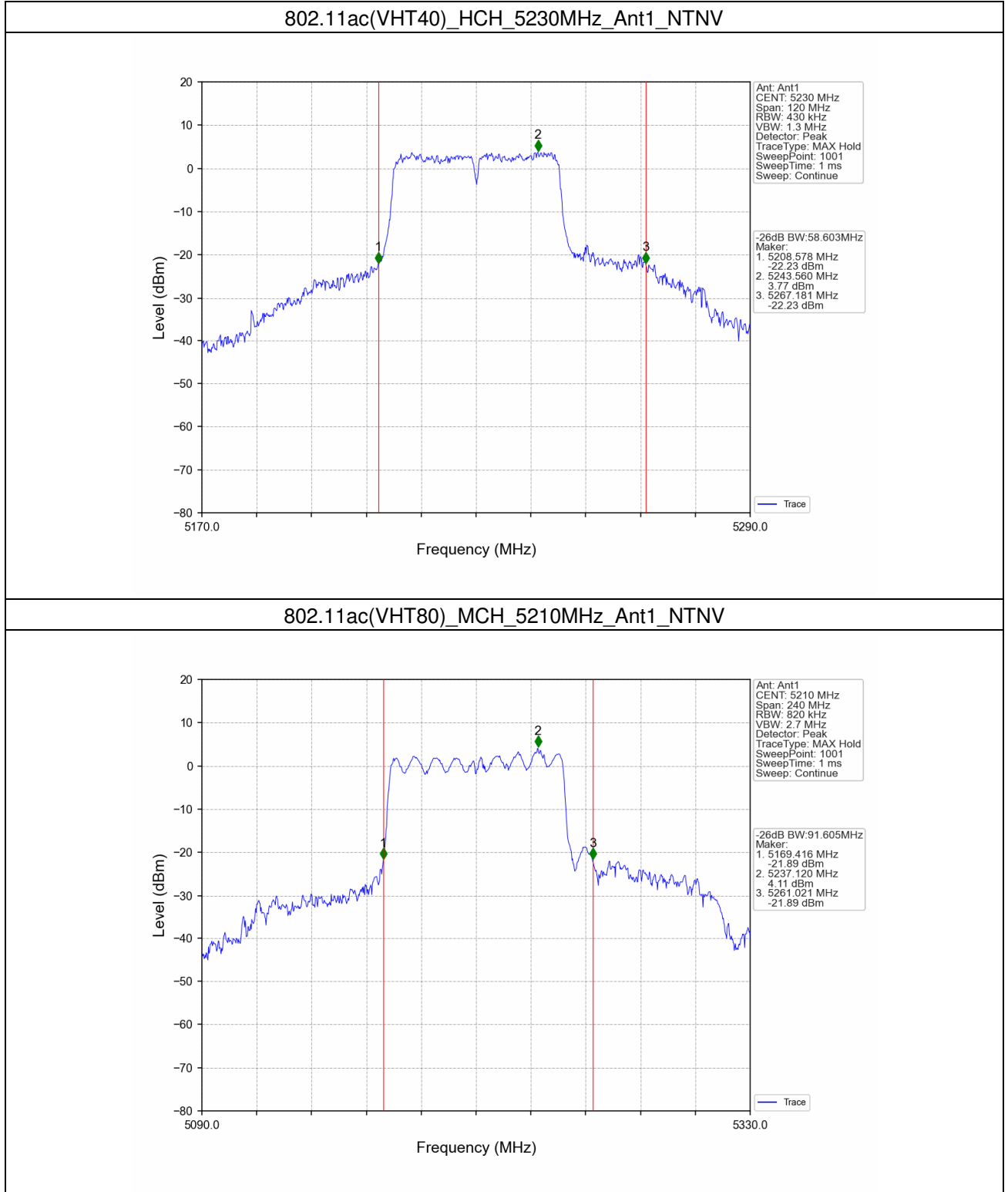
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	14.31	<=23.98	Pass
		5200	14.46	<=23.98	Pass
		5240	14.96	<=23.98	Pass
802.11n (HT20)	SISO	5180	13.94	<=23.98	Pass
		5200	14.39	<=23.98	Pass
		5240	14.89	<=23.98	Pass
802.11n (HT40)	SISO	5190	13.77	<=23.98	Pass
		5230	14.43	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	14.08	<=23.98	Pass
		5200	14.45	<=23.98	Pass
		5240	14.39	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	14.03	<=23.98	Pass
		5230	14.43	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	11.11	<=23.98	Pass

Note1: Antenna Gain: Ant1: 4.21dBi;



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.96	<=11	Pass
		5200	3.17	<=11	Pass
		5240	3.75	<=11	Pass
802.11n (HT20)	SISO	5180	2.39	<=11	Pass
		5200	2.90	<=11	Pass
		5240	3.36	<=11	Pass
802.11n (HT40)	SISO	5190	-0.63	<=11	Pass
		5230	-0.21	<=11	Pass
802.11ac (VHT20)	SISO	5180	2.56	<=11	Pass
		5200	2.92	<=11	Pass
		5240	2.87	<=11	Pass
802.11ac (VHT40)	SISO	5190	-0.53	<=11	Pass
		5230	-0.13	<=11	Pass
802.11ac (VHT80)	SISO	5210	-5.14	<=11	Pass

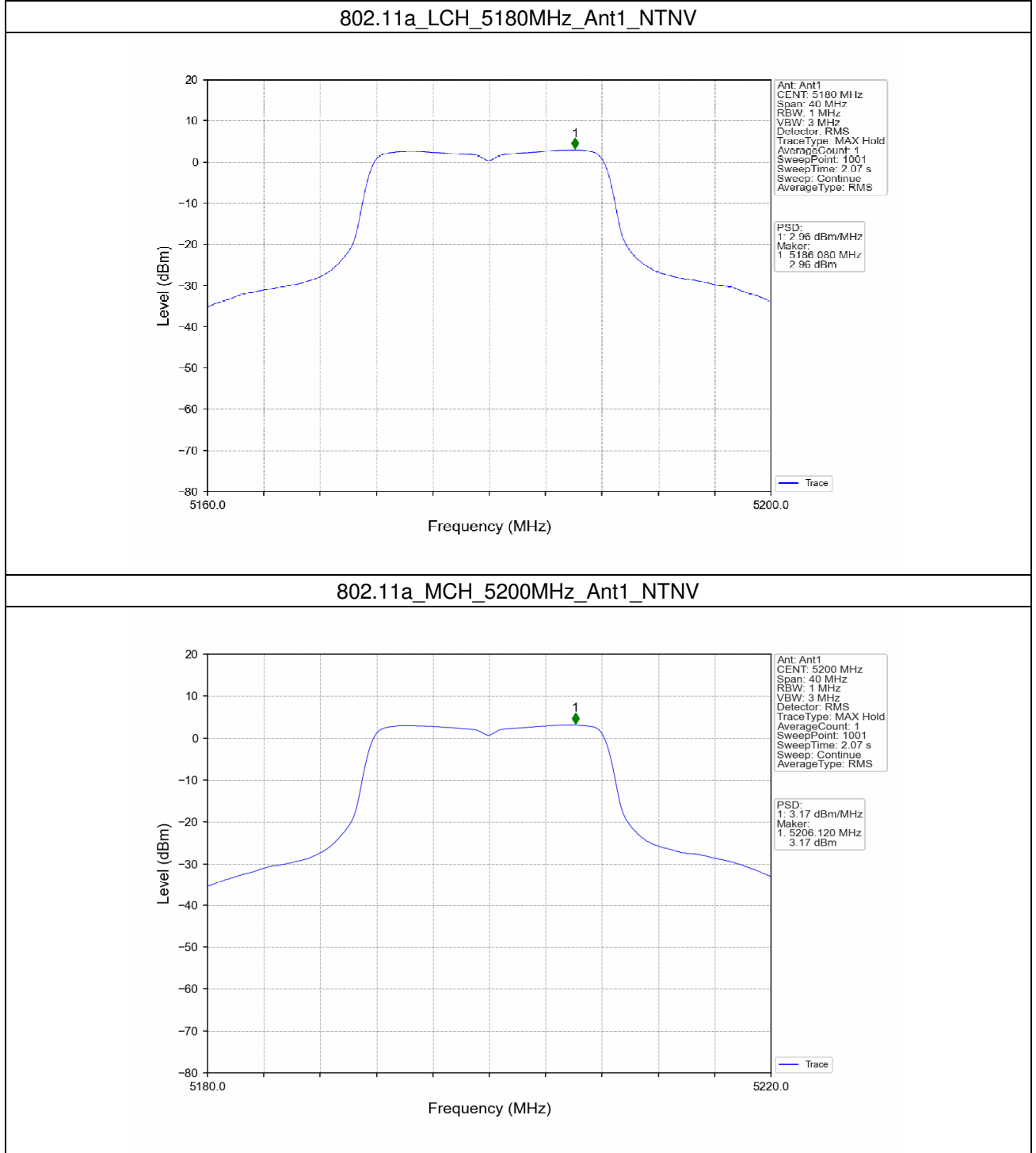
Note1: Antenna Gain: Ant1: 4.21dBi;



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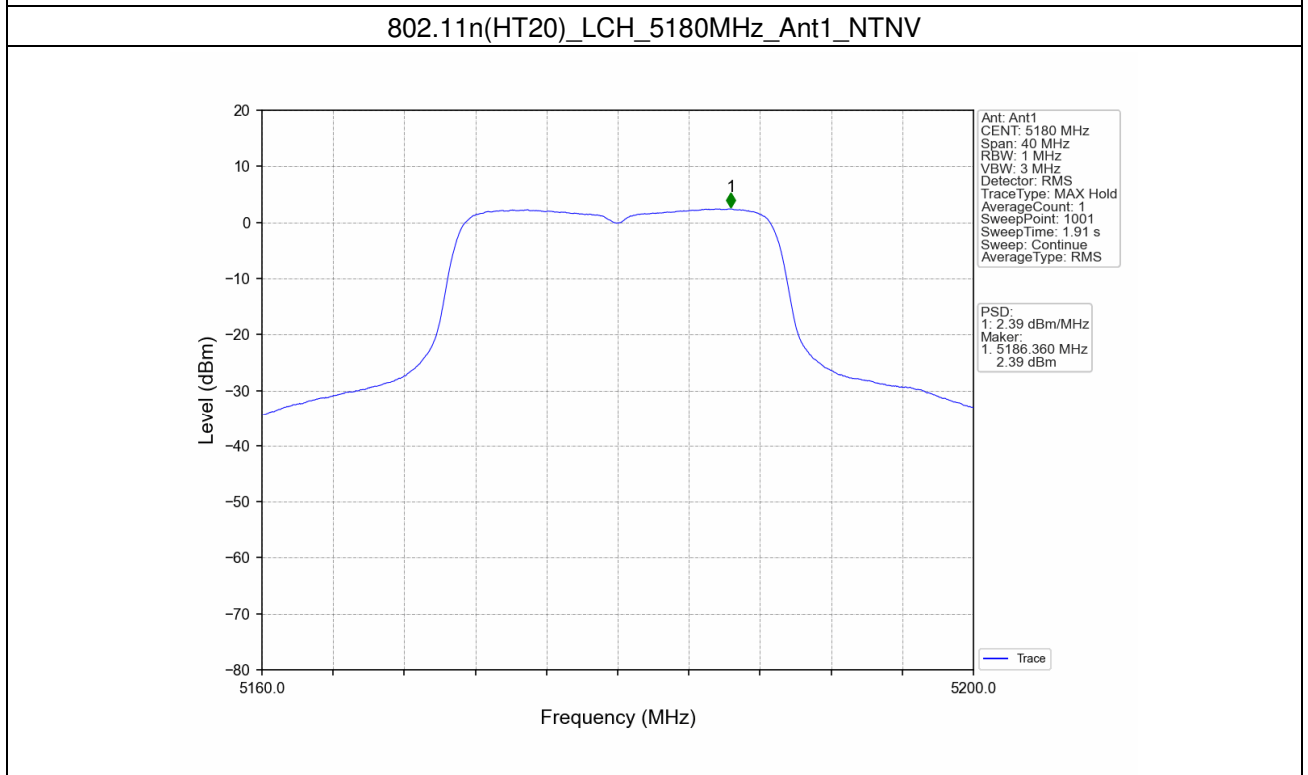
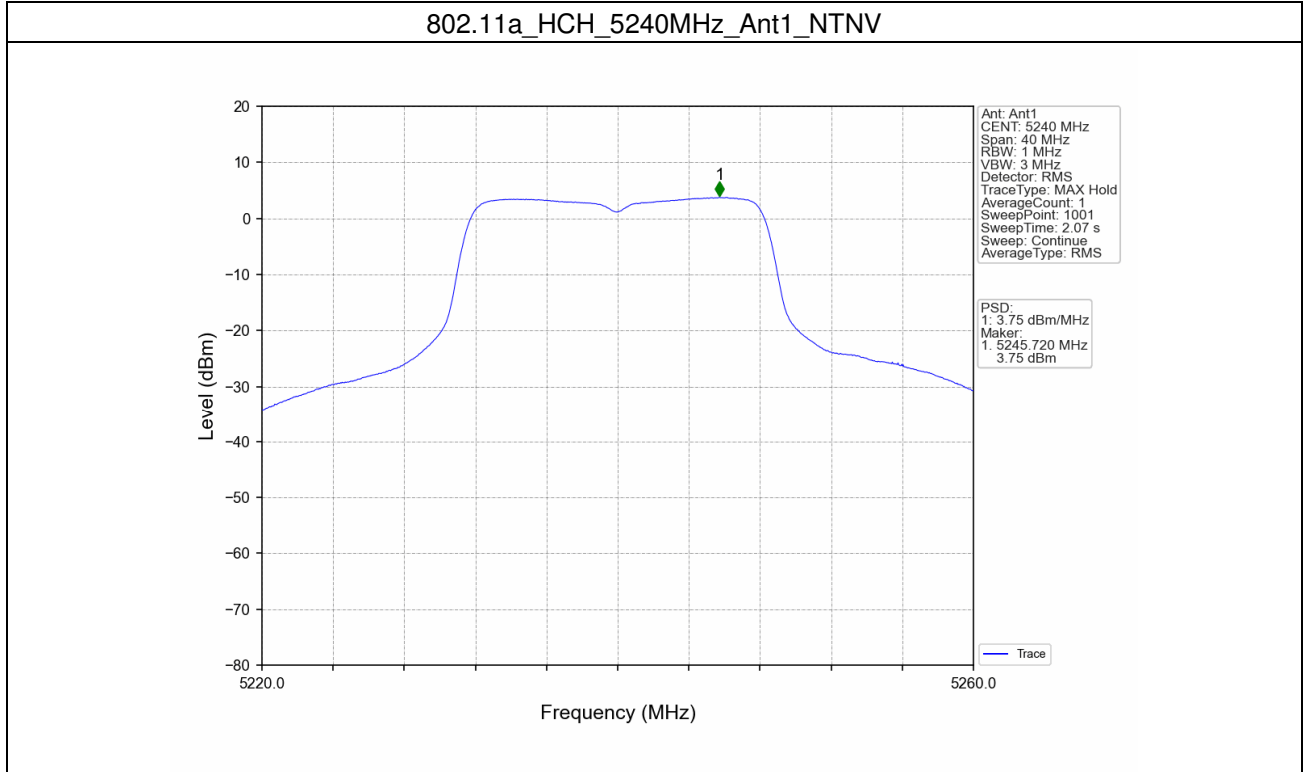
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4.1.2 Test Graph

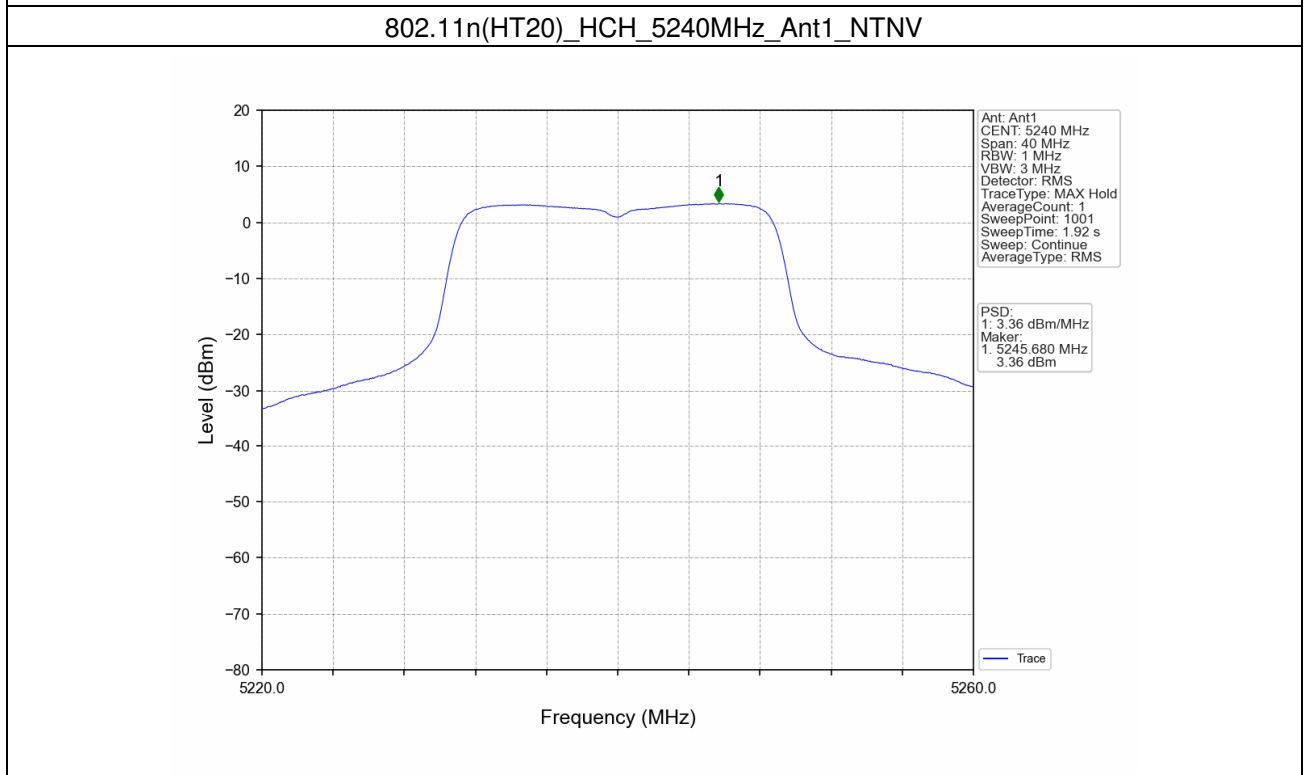
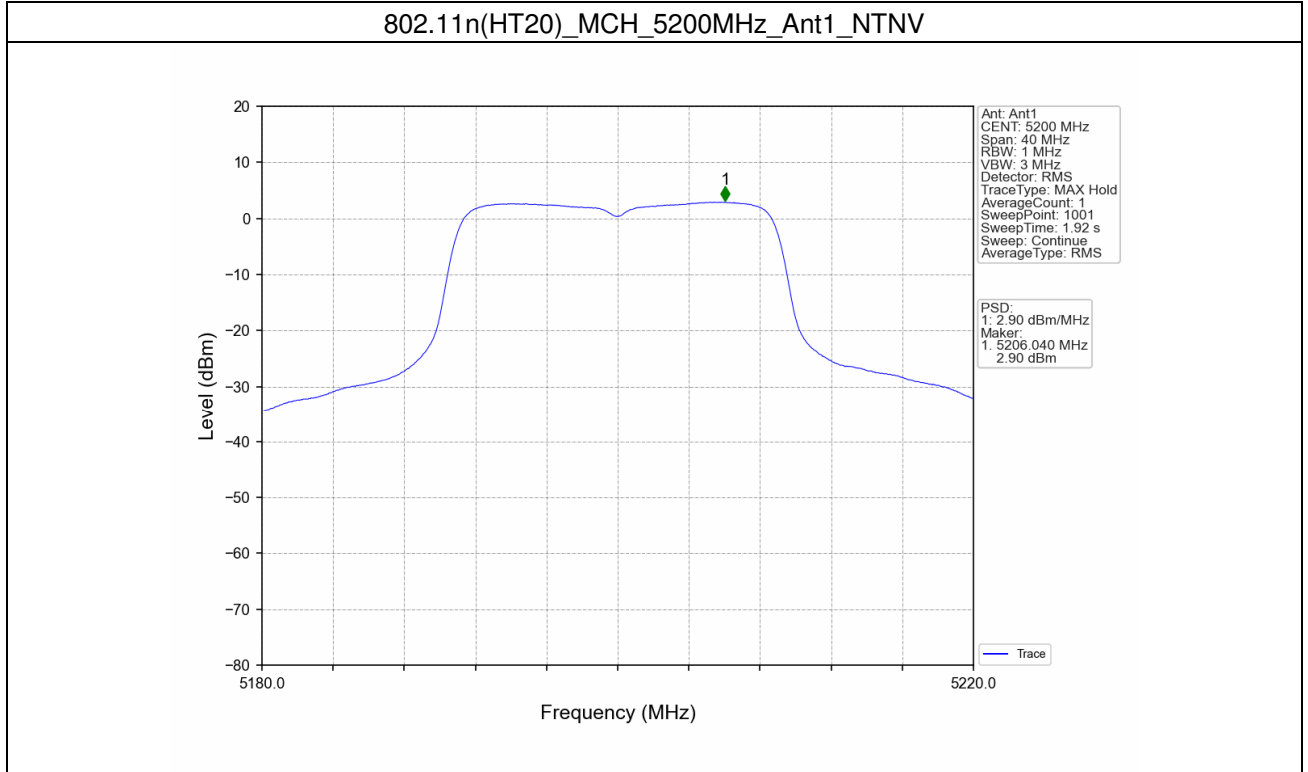


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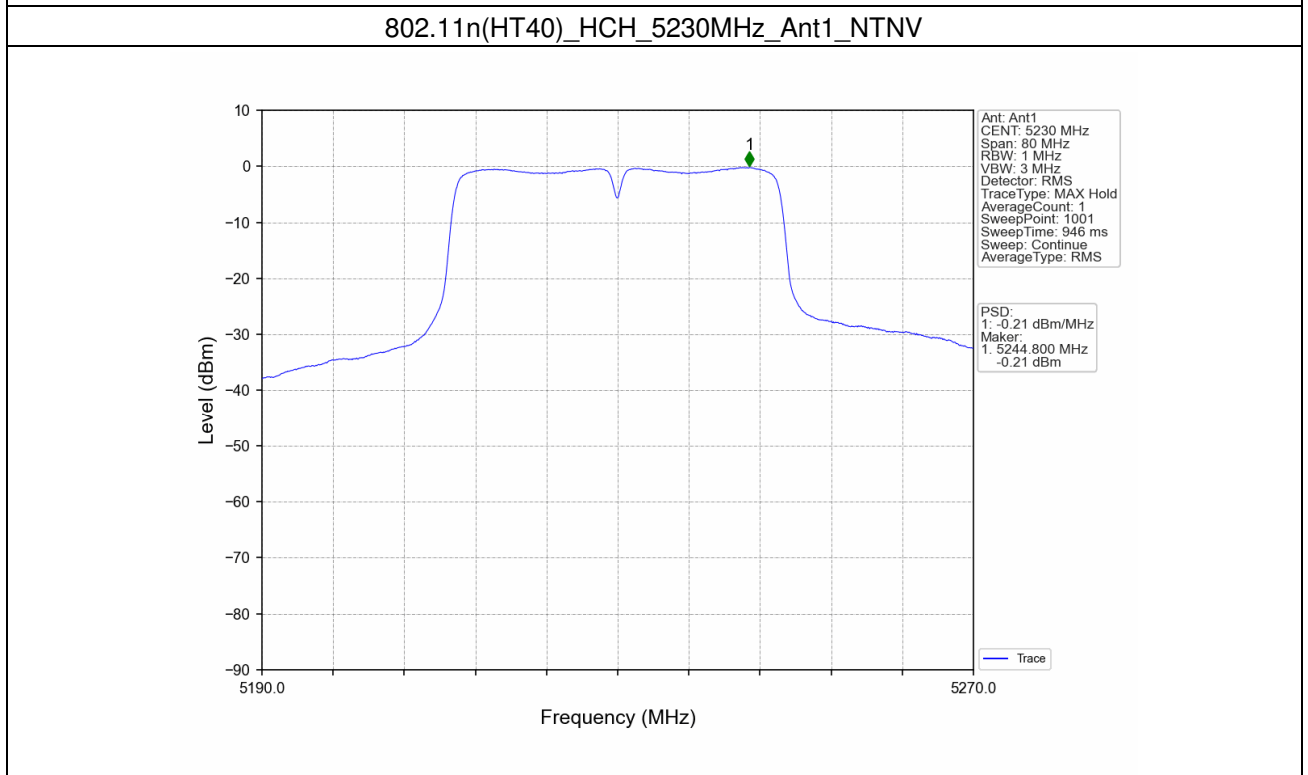
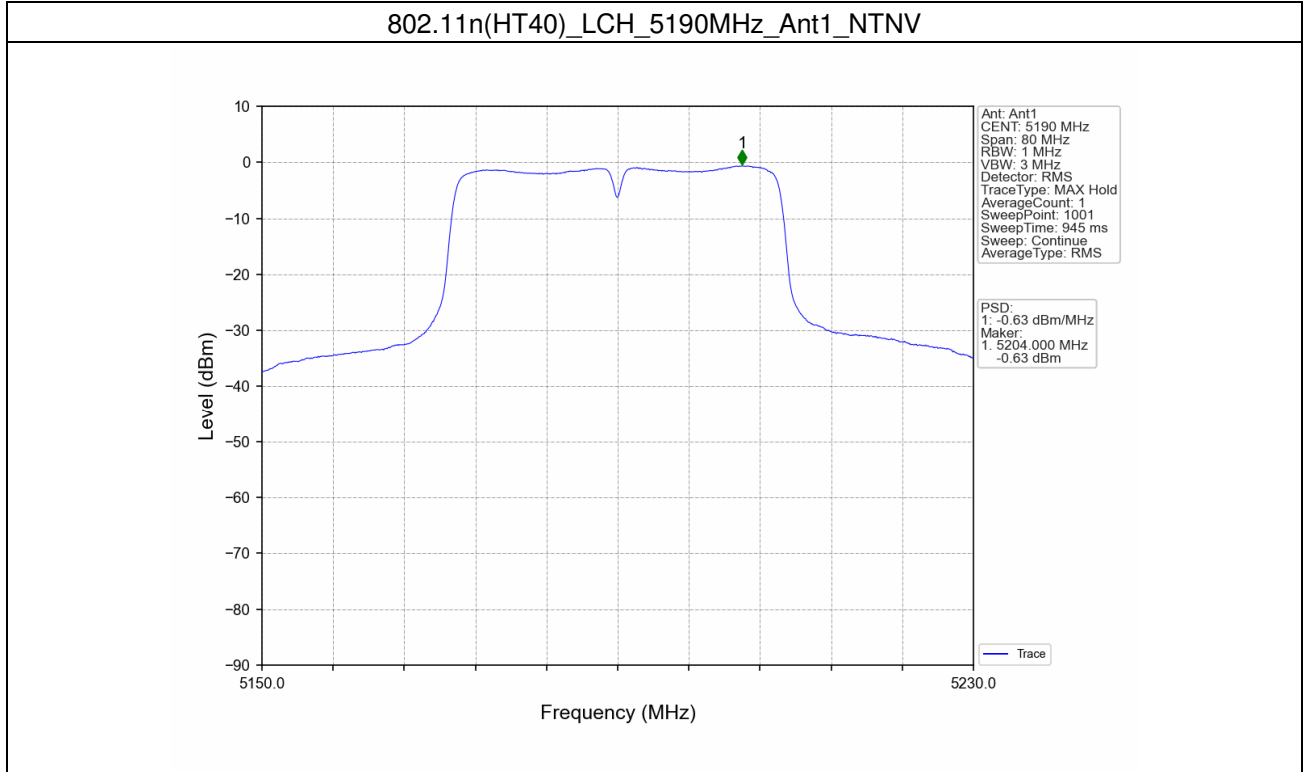


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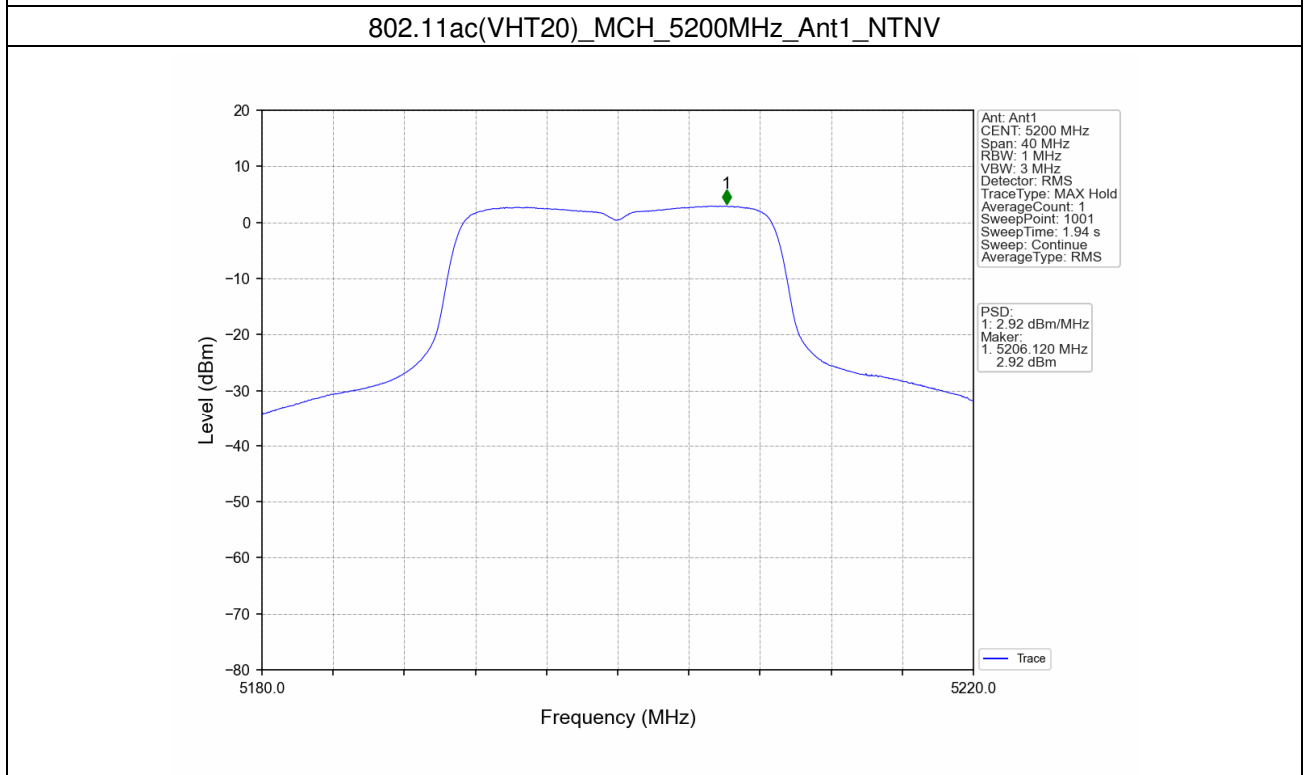
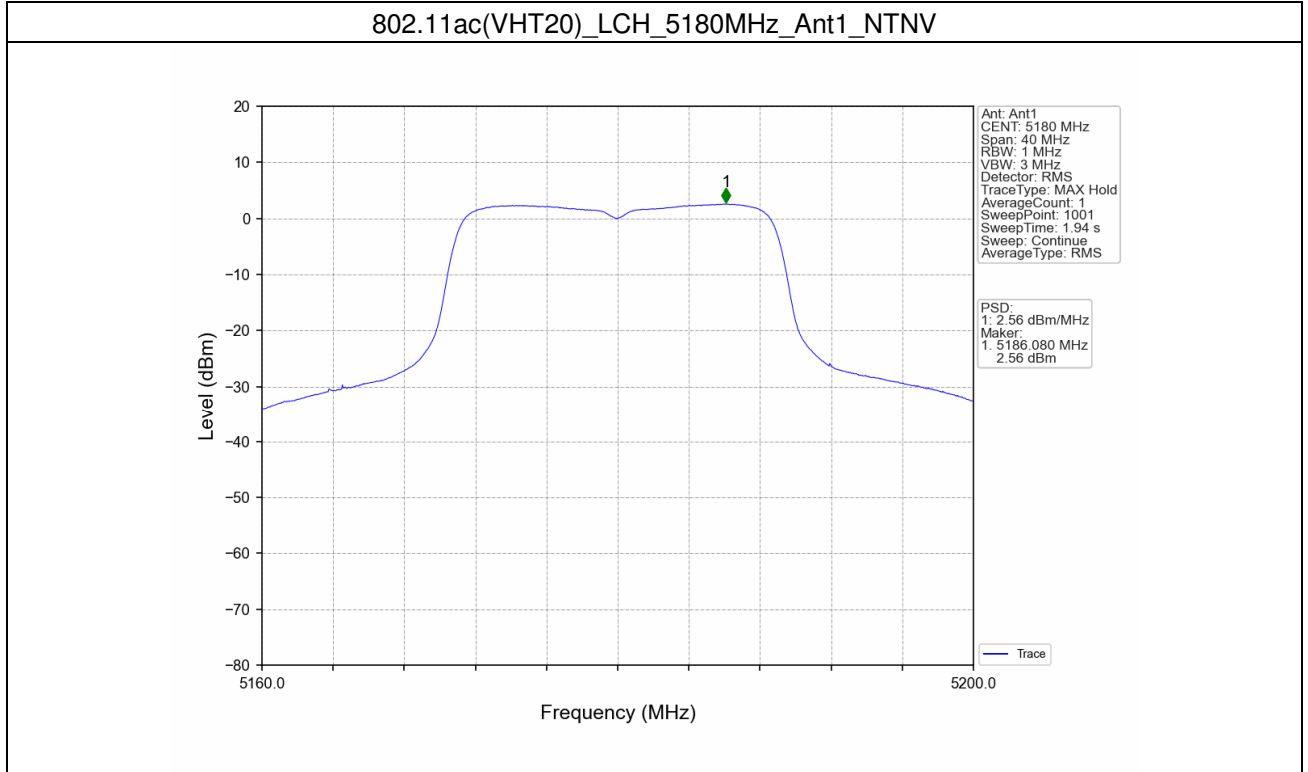


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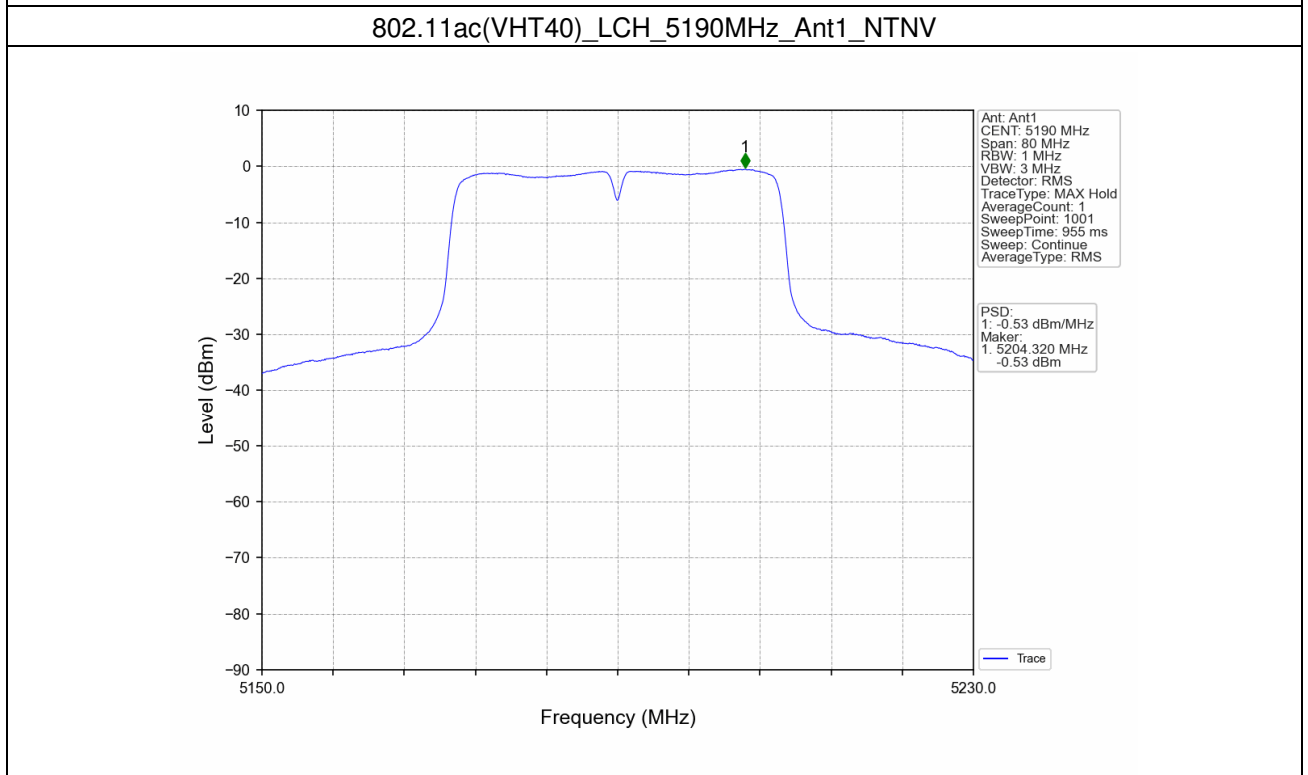
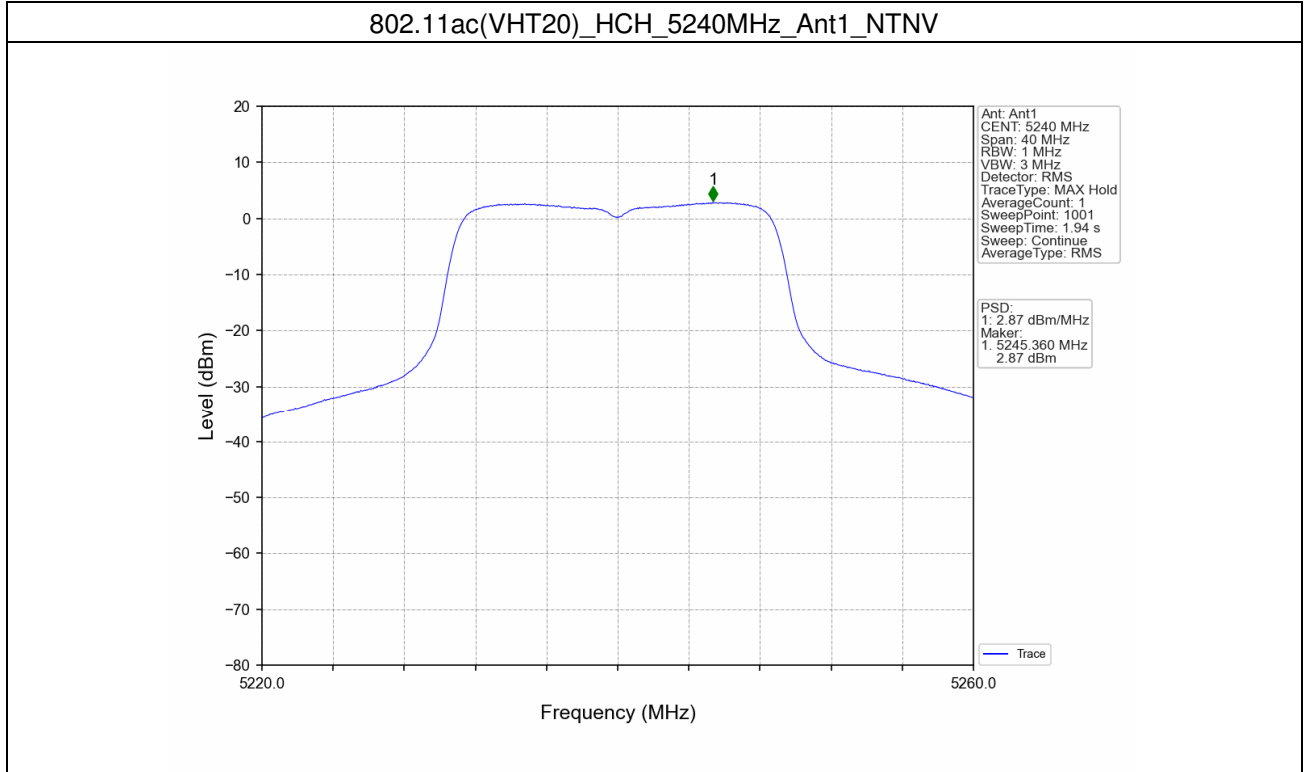


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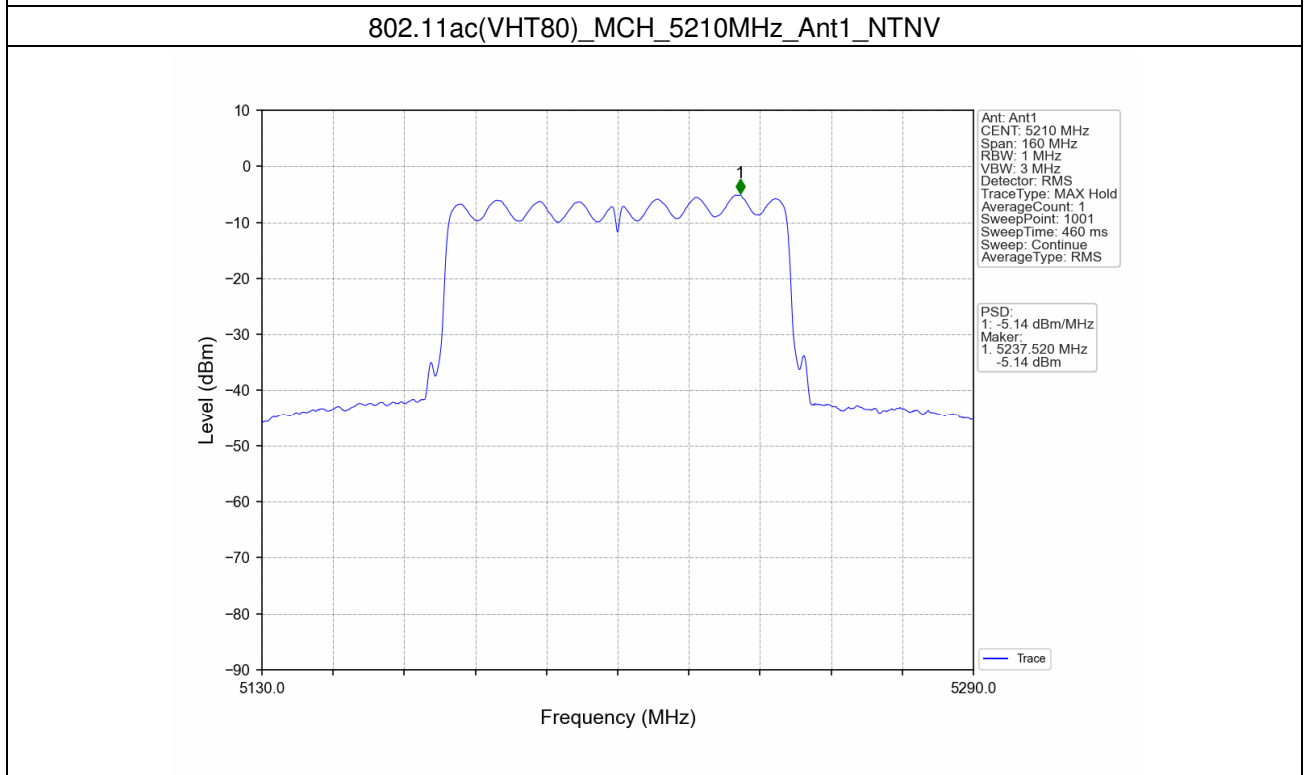
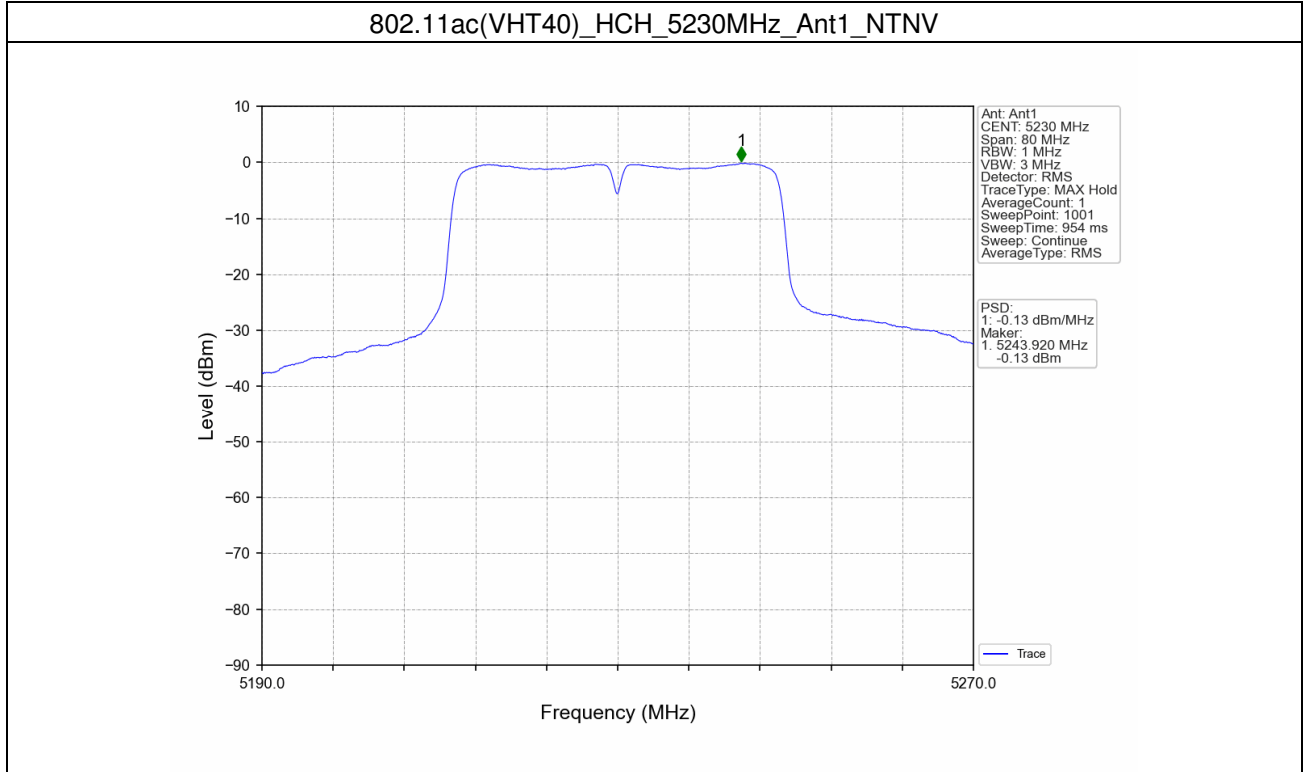
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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	9.18	5180.060	5150 to 5250	Pass
				10.80	5180.020	5150 to 5250	Pass
				12.42	5180.020	5150 to 5250	Pass
			-30	10.80	5180.040	5150 to 5250	Pass
			-20	10.80	5180.040	5150 to 5250	Pass
			-10	10.80	5180.000	5150 to 5250	Pass
			0	10.80	5180.000	5150 to 5250	Pass
			10	10.80	5180.040	5150 to 5250	Pass
			30	10.80	5180.020	5150 to 5250	Pass
		40	10.80	5180.020	5150 to 5250	Pass	
		50	10.80	5180.000	5150 to 5250	Pass	
		5200	20	9.18	5200.040	5150 to 5250	Pass
				10.80	5200.040	5150 to 5250	Pass
				12.42	5200.040	5150 to 5250	Pass
			-30	10.80	5200.040	5150 to 5250	Pass
			-20	10.80	5200.040	5150 to 5250	Pass
			-10	10.80	5200.040	5150 to 5250	Pass
			0	10.80	5200.000	5150 to 5250	Pass
			10	10.80	5200.000	5150 to 5250	Pass
			30	10.80	5200.040	5150 to 5250	Pass
		40	10.80	5200.080	5150 to 5250	Pass	
		50	10.80	5200.040	5150 to 5250	Pass	
		5240	20	9.18	5240.040	5150 to 5250	Pass
				10.80	5240.000	5150 to 5250	Pass
				12.42	5240.000	5150 to 5250	Pass
			-30	10.80	5239.960	5150 to 5250	Pass
			-20	10.80	5240.020	5150 to 5250	Pass
-10	10.80		5240.020	5150 to 5250	Pass		
0	10.80	5240.000	5150 to 5250	Pass			



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			10	10.80	5240.000	5150 to 5250	Pass		
			30	10.80	5240.000	5150 to 5250	Pass		
			40	10.80	5240.000	5150 to 5250	Pass		
			50	10.80	5240.000	5150 to 5250	Pass		
802.11n (HT20)	SISO	5180	20	9.18	5180.080	5150 to 5250	Pass		
				10.80	5180.080	5150 to 5250	Pass		
				12.42	5180.060	5150 to 5250	Pass		
			-30	10.80	5180.040	5150 to 5250	Pass		
			-20	10.80	5180.000	5150 to 5250	Pass		
			-10	10.80	5180.060	5150 to 5250	Pass		
			0	10.80	5180.000	5150 to 5250	Pass		
			10	10.80	5180.000	5150 to 5250	Pass		
			30	10.80	5180.000	5150 to 5250	Pass		
			40	10.80	5180.020	5150 to 5250	Pass		
			50	10.80	5180.000	5150 to 5250	Pass		
			5200	20	9.18	5199.980	5150 to 5250	Pass	
		10.80			5200.040	5150 to 5250	Pass		
		12.42			5200.000	5150 to 5250	Pass		
		-30		10.80	5200.060	5150 to 5250	Pass		
		-20		10.80	5200.020	5150 to 5250	Pass		
		-10		10.80	5199.960	5150 to 5250	Pass		
		0		10.80	5200.000	5150 to 5250	Pass		
		10		10.80	5200.020	5150 to 5250	Pass		
		30		10.80	5200.000	5150 to 5250	Pass		
		40		10.80	5200.020	5150 to 5250	Pass		
		50		10.80	5200.000	5150 to 5250	Pass		
		5240		20	9.18	5239.980	5150 to 5250	Pass	
			10.80		5240.060	5150 to 5250	Pass		
			12.42		5240.080	5150 to 5250	Pass		
			-30	10.80	5240.040	5150 to 5250	Pass		
			-20	10.80	5239.980	5150 to 5250	Pass		
			-10	10.80	5240.000	5150 to 5250	Pass		
			0	10.80	5240.060	5150 to 5250	Pass		
			10	10.80	5240.020	5150 to 5250	Pass		
			30	10.80	5240.060	5150 to 5250	Pass		
			40	10.80	5239.960	5150 to 5250	Pass		
			50	10.80	5240.040	5150 to 5250	Pass		
			802.11n (HT40)	SISO	5190	20	9.18	5190.080	5150 to 5250
		10.80					5190.040	5150 to 5250	Pass



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		5230		12.42	5190.040	5150 to 5250	Pass	
			-30	10.80	5190.000	5150 to 5250	Pass	
			-20	10.80	5190.000	5150 to 5250	Pass	
			-10	10.80	5190.040	5150 to 5250	Pass	
			0	10.80	5190.080	5150 to 5250	Pass	
			10	10.80	5190.040	5150 to 5250	Pass	
			30	10.80	5190.000	5150 to 5250	Pass	
			40	10.80	5190.000	5150 to 5250	Pass	
			50	10.80	5190.080	5150 to 5250	Pass	
			20	9.18	5230.000	5150 to 5250	Pass	
				10.80	5230.080	5150 to 5250	Pass	
				12.42	5230.040	5150 to 5250	Pass	
				-30	10.80	5230.120	5150 to 5250	Pass
				-20	10.80	5230.080	5150 to 5250	Pass
		-10		10.80	5230.160	5150 to 5250	Pass	
		0	10.80	5230.080	5150 to 5250	Pass		
			10	10.80	5230.040	5150 to 5250	Pass	
			30	10.80	5229.960	5150 to 5250	Pass	
			40	10.80	5230.040	5150 to 5250	Pass	
			50	10.80	5230.080	5150 to 5250	Pass	
5180	9.18		5179.980	5150 to 5250	Pass			
	20	10.80	5180.040	5150 to 5250	Pass			
		12.42	5179.940	5150 to 5250	Pass			
		-30	10.80	5180.080	5150 to 5250	Pass		
	-20	10.80	5179.980	5150 to 5250	Pass			
	-10	10.80	5180.040	5150 to 5250	Pass			
	0	10.80	5180.000	5150 to 5250	Pass			
	10	10.80	5179.960	5150 to 5250	Pass			
	30	10.80	5180.000	5150 to 5250	Pass			
	40	10.80	5179.980	5150 to 5250	Pass			
50	10.80	5180.040	5150 to 5250	Pass				
5200	20	9.18	5200.020	5150 to 5250	Pass			
		10.80	5200.020	5150 to 5250	Pass			
		12.42	5200.020	5150 to 5250	Pass			
	-30	10.80	5200.000	5150 to 5250	Pass			
	-20	10.80	5199.980	5150 to 5250	Pass			
	-10	10.80	5200.000	5150 to 5250	Pass			
	0	10.80	5199.960	5150 to 5250	Pass			
	10	10.80	5200.060	5150 to 5250	Pass			

802.11ac
(VHT20)

SISO



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		5240	30	10.80	5200.020	5150 to 5250	Pass	
			40	10.80	5200.000	5150 to 5250	Pass	
			50	10.80	5200.000	5150 to 5250	Pass	
			20	9.18	5240.000	5150 to 5250	Pass	
				10.80	5240.040	5150 to 5250	Pass	
				12.42	5240.020	5150 to 5250	Pass	
			-30	10.80	5240.060	5150 to 5250	Pass	
			-20	10.80	5240.020	5150 to 5250	Pass	
			-10	10.80	5240.040	5150 to 5250	Pass	
			0	10.80	5240.020	5150 to 5250	Pass	
			10	10.80	5240.020	5150 to 5250	Pass	
			30	10.80	5240.060	5150 to 5250	Pass	
			40	10.80	5240.000	5150 to 5250	Pass	
			50	10.80	5240.020	5150 to 5250	Pass	
802.11ac (VHT40)	SISO	5190	20	9.18	5189.960	5150 to 5250	Pass	
				10.80	5190.120	5150 to 5250	Pass	
				12.42	5190.040	5150 to 5250	Pass	
			-30	10.80	5190.040	5150 to 5250	Pass	
			-20	10.80	5190.000	5150 to 5250	Pass	
			-10	10.80	5190.080	5150 to 5250	Pass	
			0	10.80	5190.000	5150 to 5250	Pass	
			10	10.80	5190.000	5150 to 5250	Pass	
			30	10.80	5190.040	5150 to 5250	Pass	
			40	10.80	5190.080	5150 to 5250	Pass	
			50	10.80	5190.000	5150 to 5250	Pass	
			5230	20	9.18	5230.120	5150 to 5250	Pass
					10.80	5230.120	5150 to 5250	Pass
					12.42	5230.080	5150 to 5250	Pass
-30	10.80	5230.160		5150 to 5250	Pass			
-20	10.80	5230.080		5150 to 5250	Pass			
-10	10.80	5230.080		5150 to 5250	Pass			
0	10.80	5230.120		5150 to 5250	Pass			
10	10.80	5230.120		5150 to 5250	Pass			
30	10.80	5230.080		5150 to 5250	Pass			
40	10.80	5230.080		5150 to 5250	Pass			
50	10.80	5230.080		5150 to 5250	Pass			
802.11ac (VHT80)	SISO	5210	20	9.18	5210.075	5150 to 5250	Pass	
				10.80	5210.075	5150 to 5250	Pass	
				12.42	5210.000	5150 to 5250	Pass	



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			-30	10.80	5210.000	5150 to 5250	Pass
			-20	10.80	5210.075	5150 to 5250	Pass
			-10	10.80	5210.000	5150 to 5250	Pass
			0	10.80	5210.075	5150 to 5250	Pass
			10	10.80	5210.075	5150 to 5250	Pass
			30	10.80	5210.000	5150 to 5250	Pass
			40	10.80	5210.000	5150 to 5250	Pass
			50	10.80	5210.075	5150 to 5250	Pass

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