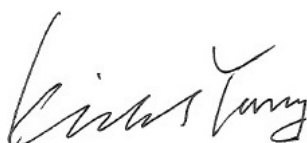


TEST REPORT

Application No.: FYCR2203000002AT
Applicant: Wyze Labs, Inc.
Address of Applicant: 5808 Lake Washington Blvd NE Ste 300 Kirkland Washington 98033 United States
Manufacturer: ShenZhen Dophigo IoT Technology Co., Ltd
Address of Manufacturer: B02, first floor, building No.9, Nanshan Yungu start-up business industrial park second part, No.2, Pingshan first road, Pingshan Community, Taoyuan Street, Nanshan district, Shenzhen.
Factory: Shenzhen Point Electronics Tech Co., Ltd.
Address of Factory: Building3, Shangyuan Industrial Zone, Liantang, Gongming, Guangming District, Shenzhen
Equipment Under Test (EUT):
EUT Name: Wyze Chime Pro
Model No.: WWDPCA
Trade Mark: WYZE
FCC ID: 2AUIUWWDPCA
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-03-08
Date of Test: 2022-03-11 to 2022-04-08
Date of Issue: 2022-04-08

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Kidd Yang
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-08		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		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 C 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	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 C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 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 & 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass



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4 General Information

4.1 Details of E.U.T.

Power Supply:	Input: 100V-240V 0.1A 50/60Hz
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-3: 5745-5825MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11a/n(HT20): 20MHz
DFS Function:	Without DFS function
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	3.15dBi
Remark: EUT was tested at 120 VAC, 50 / 60Hz and 240 VAC, 50 / 60Hz, and only the worst data 120 VAC, 60Hz were retained in the report.	

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

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



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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(9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2021/7/13	2022/7/12
Two-Line V-Network(9kHz-30MHz)	Rohde & Schwarz	ENV216	SEM007-16	2021/7/13	2022/7/12
Two-Line V-Network(9kHz-30MHz)	Rohde & Schwarz	ESH3-Z5	SEM007-22	2021/7/13	2022/7/12

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

26dB Emission bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12



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Analyzer(10Hz-26.5GHz)					
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

Maximum Conducted output power

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

Peak Power spectrum density

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12



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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	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

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	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24



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Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

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	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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Shenzhen Branch

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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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna: 3.15dBi.

Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

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

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: 21.6 °C

Humidity: 55.3 % RH

Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

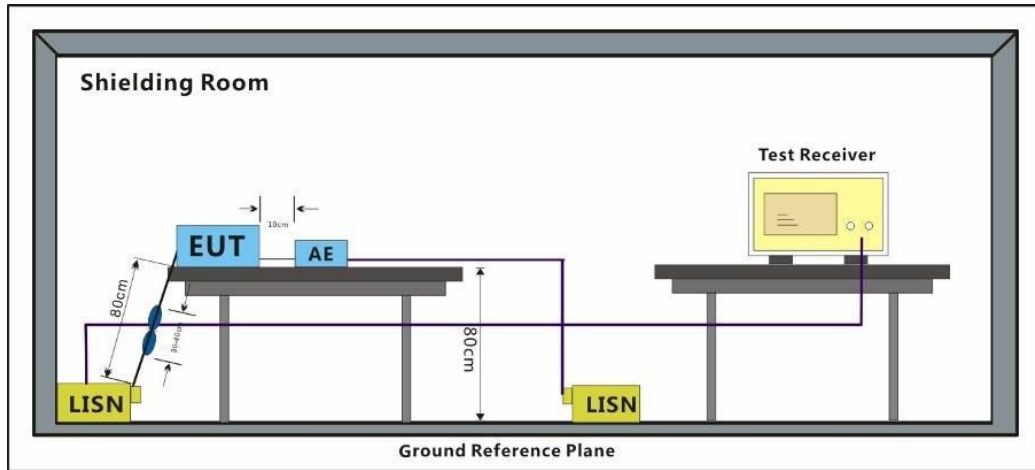
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Pre-scan	03	TX mode (U-NII-3)_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). 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 + 5ohm 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.

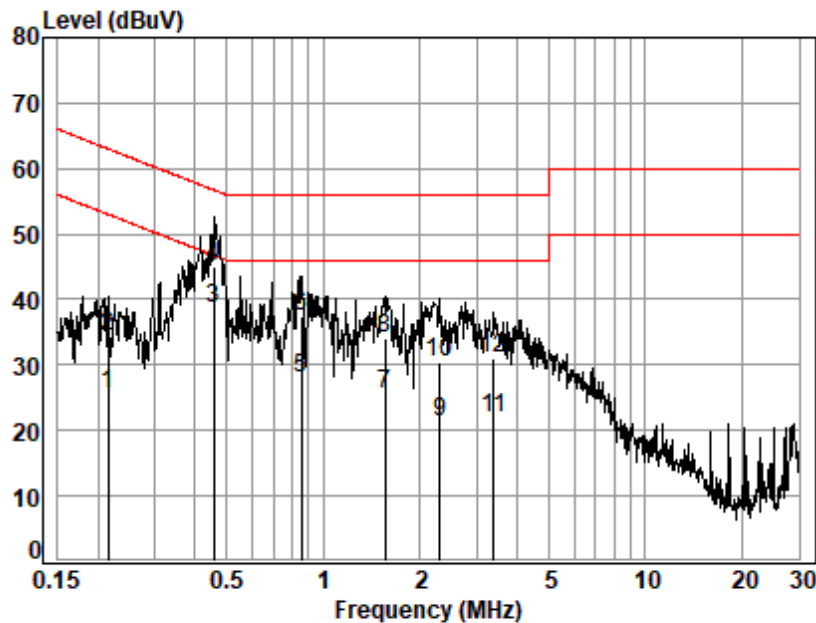
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 02; Line: Live line



Site : Shielding Room
Condition: Line
Job No : 00002AT
Test mode: 02

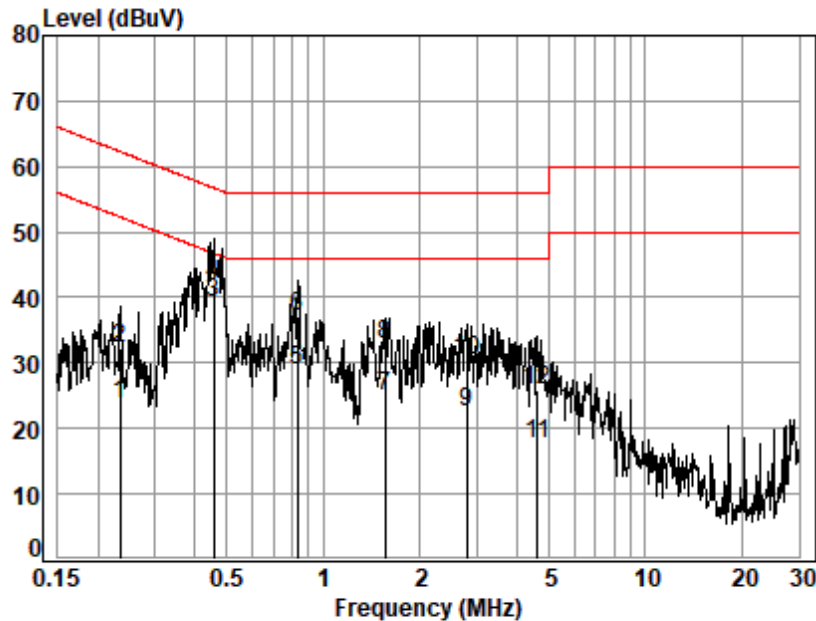
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.22	0.03	0.10	25.57	25.70	53.01	-27.31	Average
2	0.22	0.03	0.10	34.11	34.24	63.01	-28.77	QP
3	0.46	0.06	0.10	38.56	38.72	46.76	-8.04	Average
4	0.46	0.06	0.10	44.94	45.10	56.76	-11.66	QP
5	0.86	0.08	0.12	27.72	27.92	46.00	-18.08	Average
6	0.86	0.08	0.12	37.29	37.49	56.00	-18.51	QP
7	1.56	0.13	0.14	25.29	25.56	46.00	-20.44	Average
8	1.56	0.13	0.14	33.72	33.99	56.00	-22.01	QP
9	2.31	0.16	0.16	21.09	21.41	46.00	-24.59	Average
10	2.31	0.16	0.16	30.13	30.45	56.00	-25.55	QP
11	3.38	0.16	0.20	21.55	21.91	46.00	-24.09	Average
12	3.38	0.16	0.20	30.53	30.89	56.00	-25.11	QP



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Test Mode: 02; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No : 00002AT
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.23	0.03	0.10	23.64	23.77	52.30	-28.53	Average
2	0.23	0.03	0.10	32.04	32.17	62.30	-30.13	QP
3	0.46	0.06	0.11	39.13	39.30	46.76	-7.46	Average
4	0.46	0.06	0.11	41.78	41.95	56.76	-14.81	QP
5	0.83	0.08	0.11	28.63	28.82	46.00	-17.18	Average
6	0.83	0.08	0.11	36.90	37.09	56.00	-18.91	QP
7	1.55	0.13	0.14	24.69	24.96	46.00	-21.04	Average
8	1.55	0.13	0.14	32.44	32.71	56.00	-23.29	QP
9	2.79	0.16	0.17	22.19	22.52	46.00	-23.48	Average
10	2.79	0.16	0.17	30.16	30.49	56.00	-25.51	QP
11	4.62	0.17	0.23	17.26	17.66	46.00	-28.34	Average
12	4.62	0.17	0.23	25.52	25.92	56.00	-30.08	QP



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7.2 Duty Cycle

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

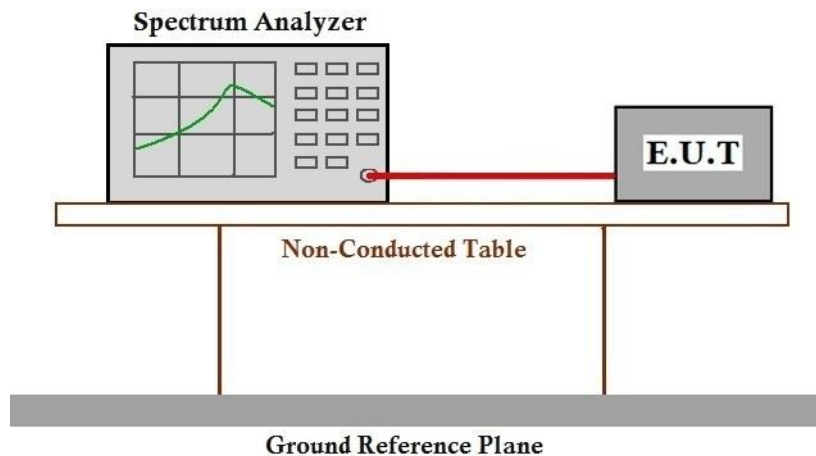
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.1 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_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). 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

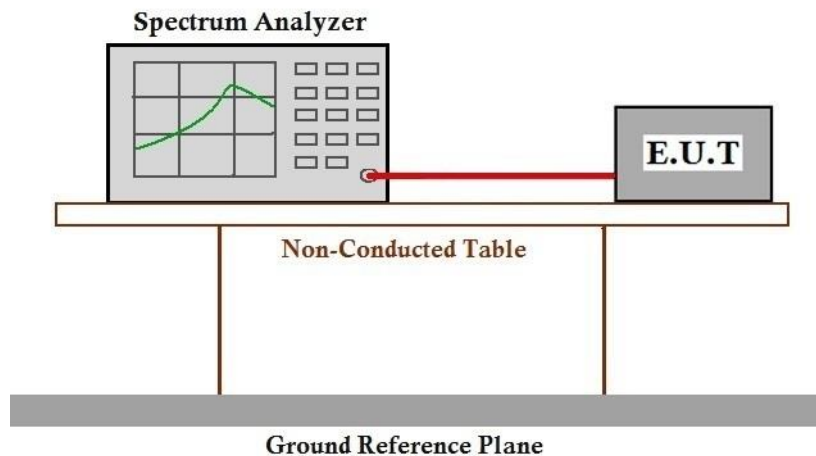
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 24.1 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_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). 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 C 15.407 (a)
Test Method: KDB 789033 D02 II C 1

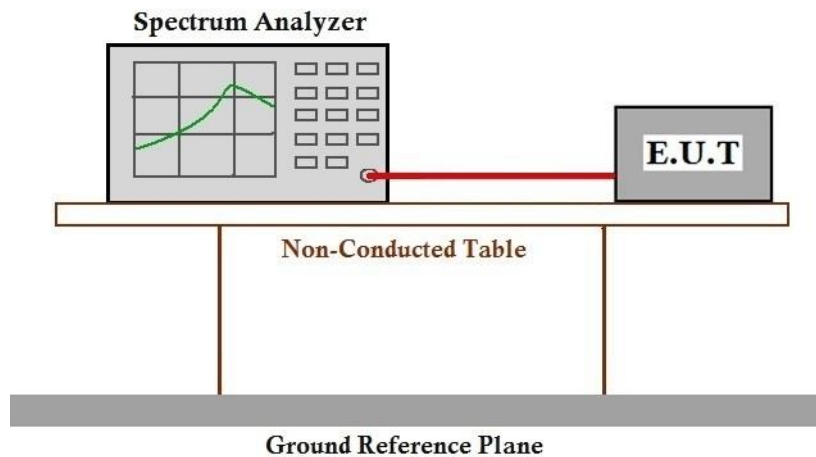
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 24.1 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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). 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 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C

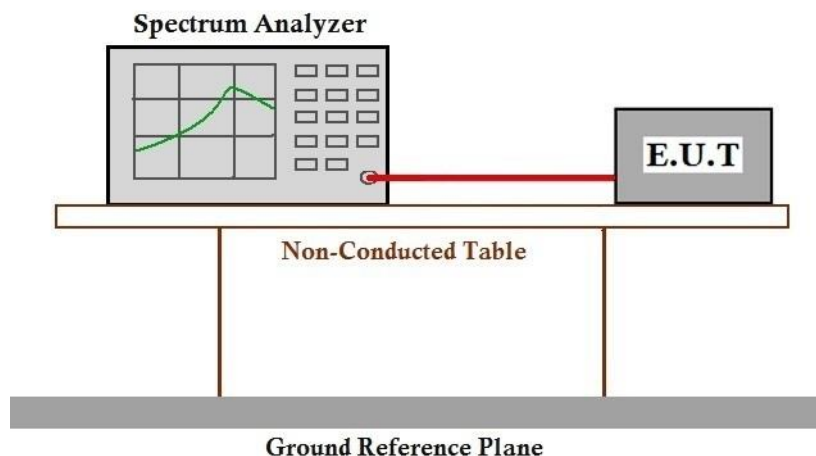
Humidity: 51.5 % RH

Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-3)_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). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 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:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

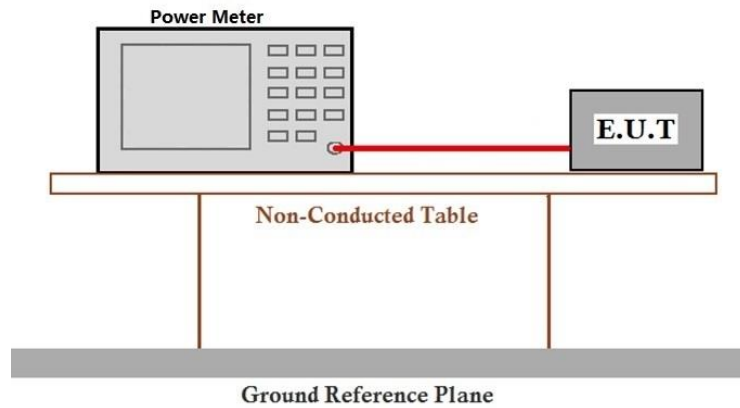
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_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). Only the data of worst case is recorded in the report.



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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 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

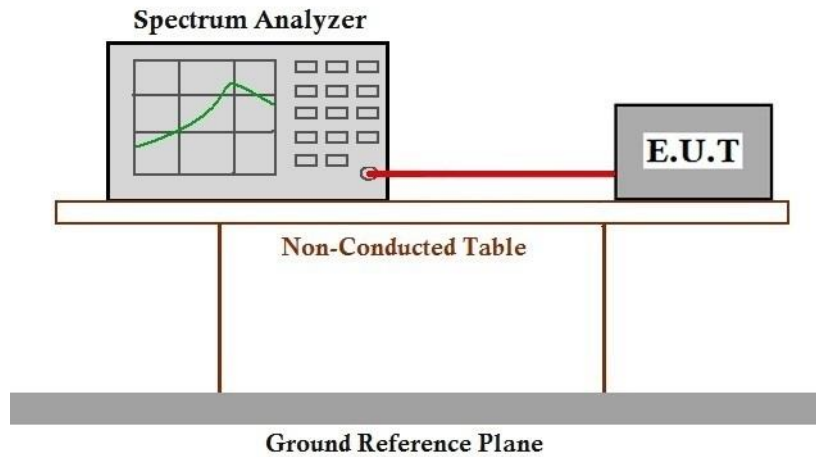
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_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). Only the data of worst case is recorded in the report.



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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 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>		

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1015 mbar



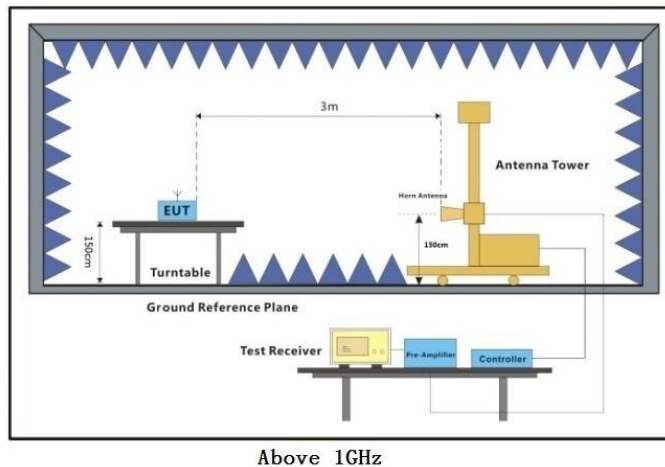
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7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_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). 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 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:

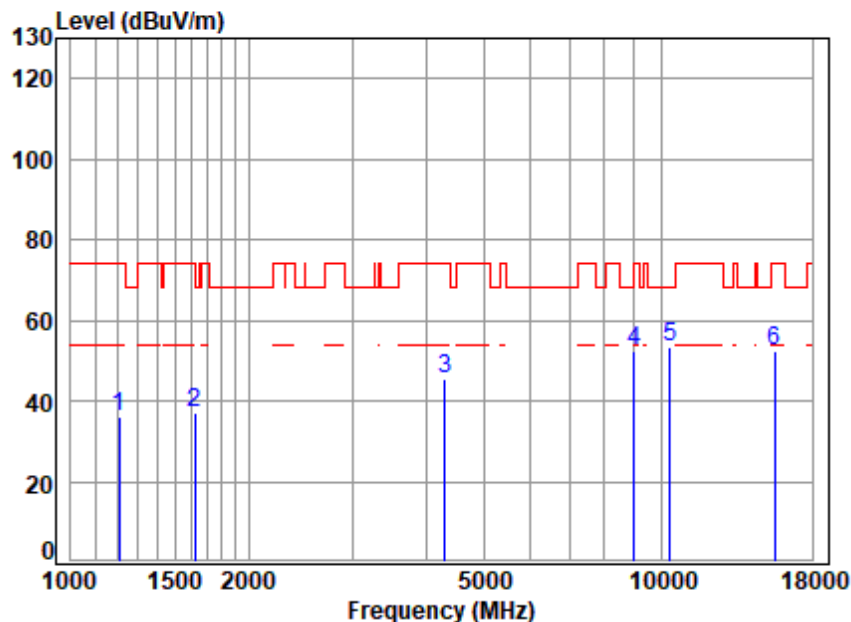
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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.



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

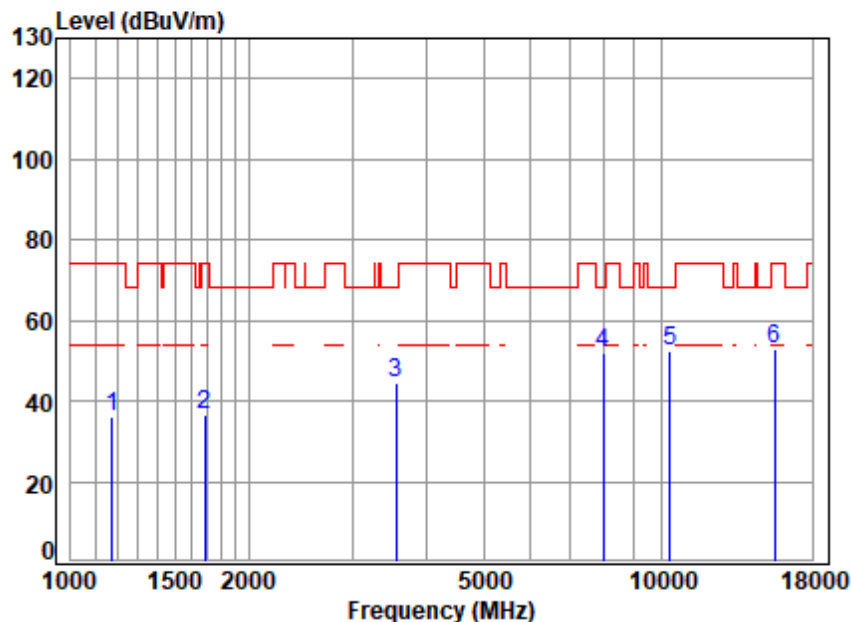
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	3.16	24.30	46.52	55.39	36.33	74.00	-37.67	peak
2	1620.431	4.03	24.84	46.39	54.59	37.07	74.00	-36.93	peak
3	4304.400	7.48	29.94	46.19	54.12	45.35	74.00	-28.65	peak
4	8995.123	10.74	36.10	46.70	52.11	52.25	68.20	-15.95	peak
5	p10360.000	11.08	38.85	47.07	50.49	53.35	68.20	-14.85	peak
6	15540.000	13.49	39.74	46.26	45.61	52.58	74.00	-21.42	peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

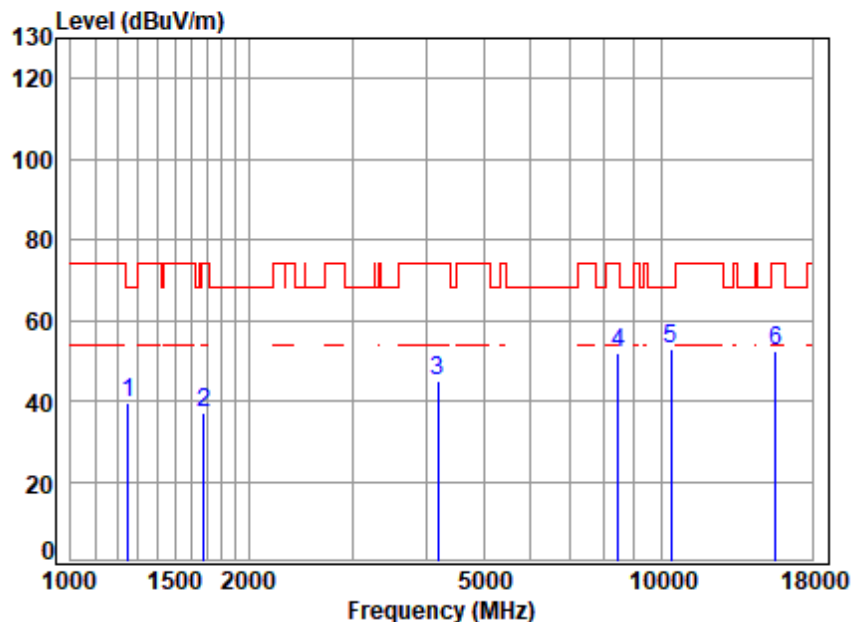
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	3.09	24.28	46.53	55.40	36.24	74.00	-37.76	peak
2	1687.347	4.17	24.98	46.37	53.96	36.74	74.00	-37.26	peak
3	3556.843	7.05	28.80	46.21	54.78	44.42	68.20	-23.78	peak
4	7989.893	9.41	36.20	45.81	52.05	51.85	68.20	-16.35	peak
5	p10360.000	11.08	38.85	47.07	49.37	52.23	68.20	-15.97	peak
6	15540.000	13.49	39.74	46.26	45.91	52.88	74.00	-21.12	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

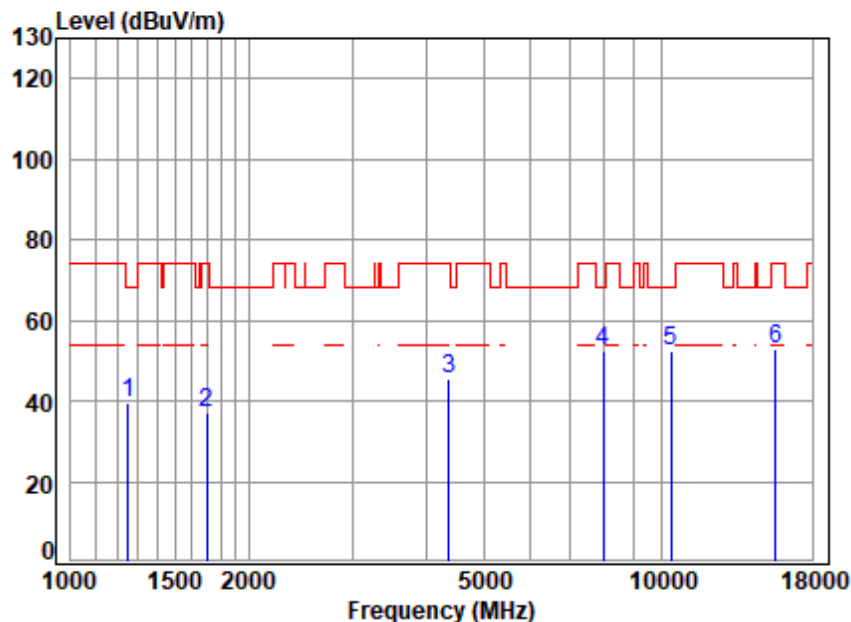
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	58.76	39.79	68.20	-28.41	peak
2	1677.621	4.15	24.96	46.38	54.50	37.23	74.00	-36.77	peak
3	4181.768	7.48	29.76	46.04	53.88	45.08	74.00	-28.92	peak
4	8440.945	9.64	36.15	46.21	52.48	52.06	74.00	-21.94	peak
5	p10400.000	11.07	38.89	47.03	49.81	52.74	68.20	-15.46	peak
6	15600.000	13.50	39.53	46.21	45.76	52.58	74.00	-21.42	peak



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Test Mode: 02; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

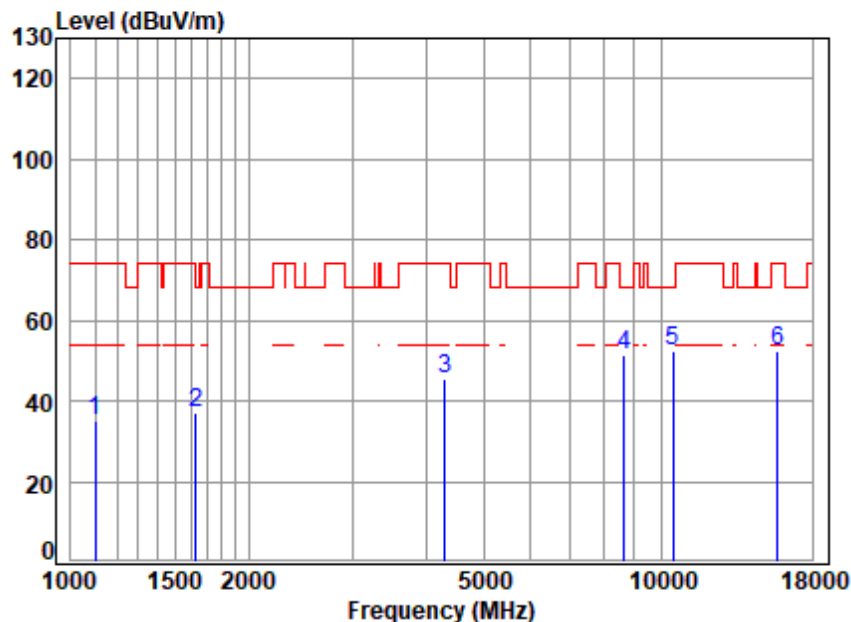
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	58.72	39.75	68.20	-28.45	peak
2	1697.129	4.19	25.00	46.37	54.37	37.19	74.00	-36.81	peak
3	4367.058	7.48	30.02	46.27	54.18	45.41	74.00	-28.59	peak
4	7989.893	9.41	36.20	45.81	52.54	52.34	68.20	-15.86	peak
5	p10400.000	11.07	38.89	47.03	49.61	52.54	68.20	-15.66	peak
6	15600.000	13.50	39.53	46.21	45.85	52.67	74.00	-21.33	peak



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

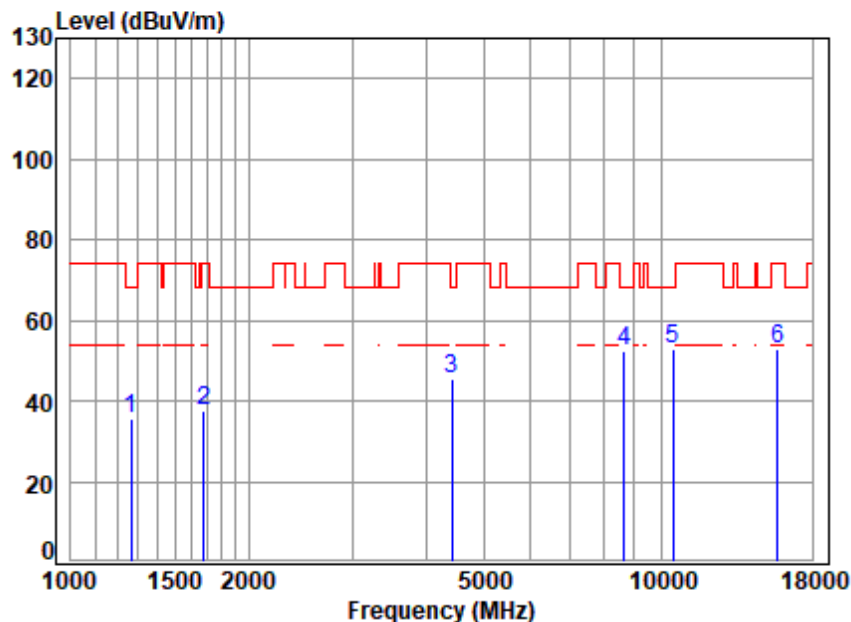
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1100.079	2.91	24.20	46.56	54.46	35.01	74.00	-38.99	peak
2	1629.825	4.05	24.86	46.39	54.33	36.85	68.20	-31.35	peak
3	4304.400	7.48	29.94	46.19	54.08	45.31	74.00	-28.69	peak
4	8663.404	10.03	36.13	46.41	51.77	51.52	68.20	-16.68	peak
5	p10480.000	11.06	38.99	46.96	49.39	52.48	68.20	-15.72	peak
6	15720.000	13.50	39.13	46.12	45.84	52.35	74.00	-21.65	peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

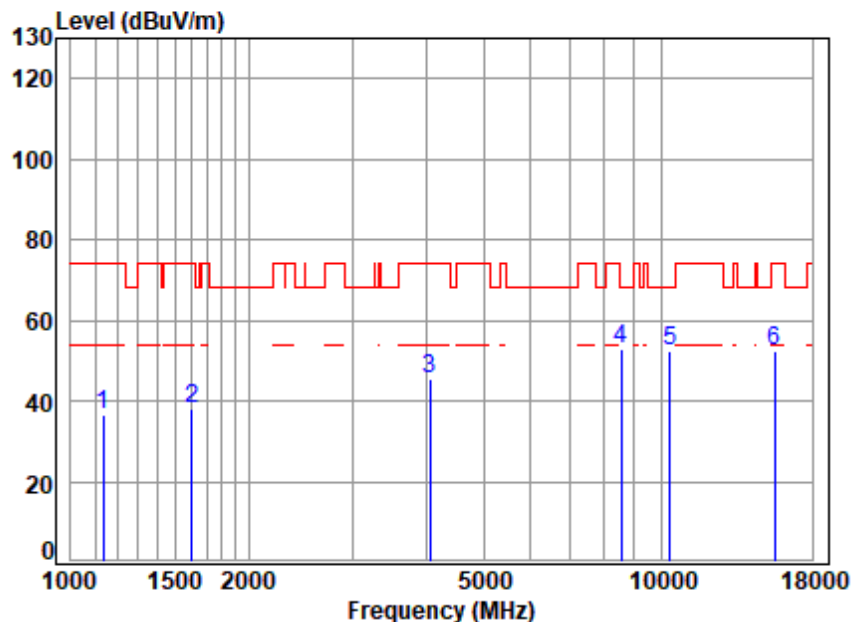
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.29	24.27	46.50	54.36	35.42	68.20	-32.78	peak
2	1677.621	4.15	24.96	46.38	54.98	37.71	74.00	-36.29	peak
3	4417.841	7.47	30.09	46.33	54.23	45.46	68.20	-22.74	peak
4	8638.399	9.98	36.13	46.39	52.90	52.62	68.20	-15.58	peak
5	10480.000	11.06	38.99	46.96	49.60	52.69	68.20	-15.51	peak
6	15720.000	13.50	39.13	46.12	46.42	52.93	74.00	-21.07	peak



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

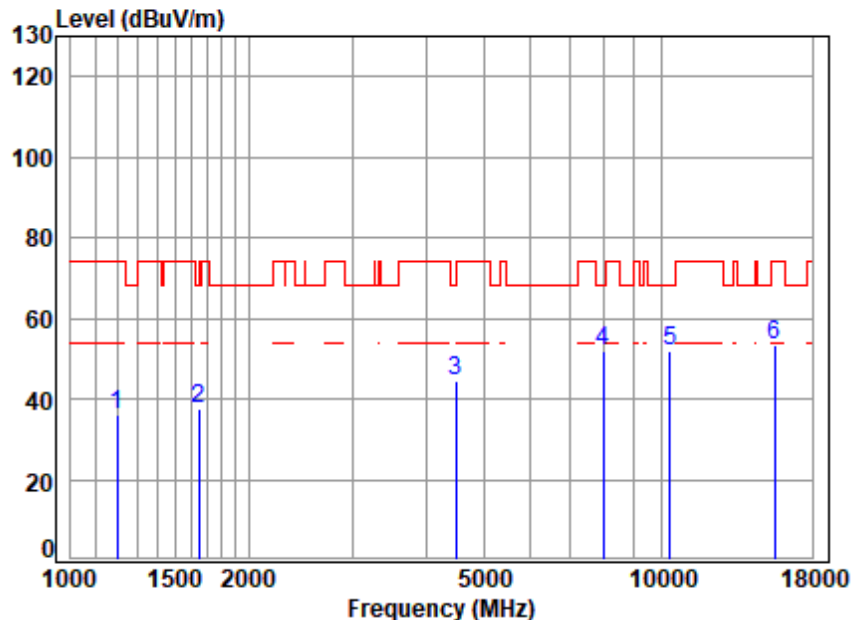
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1135.617	2.99	24.24	46.54	55.67	36.36	74.00	-37.64	peak
2	1606.441	4.00	24.81	46.39	55.54	37.96	74.00	-36.04	peak
3	4062.629	7.49	29.59	45.88	54.51	45.71	74.00	-28.29	peak
4 p	8563.818	9.81	36.14	46.32	53.28	52.91	68.20	-15.29	peak
5	10360.000	11.08	38.85	47.07	49.46	52.32	68.20	-15.88	peak
6	15540.000	13.49	39.74	46.26	45.32	52.29	74.00	-21.71	peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

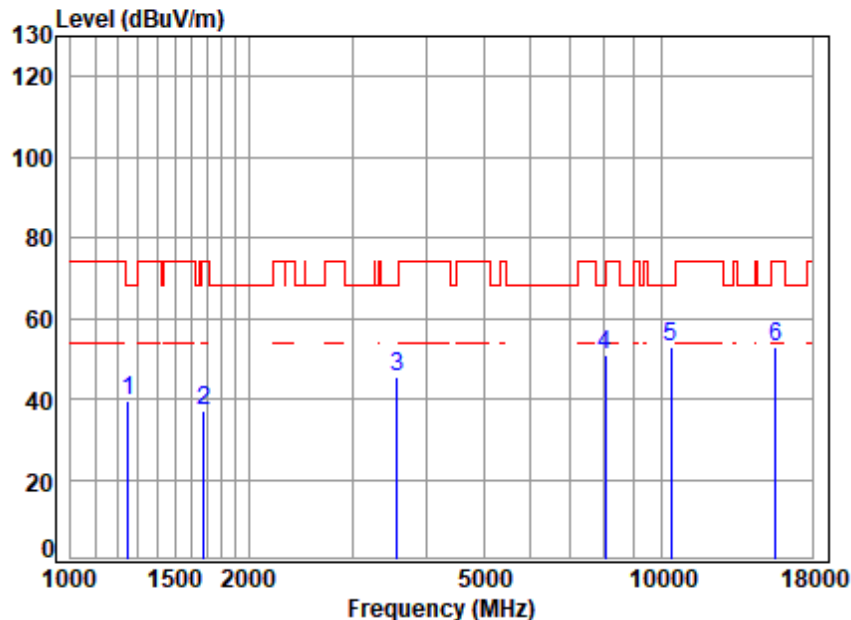
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.14	24.30	46.52	55.35	36.27	74.00	-37.73	peak
2	1648.778	4.09	24.90	46.38	54.83	37.44	68.20	-30.76	peak
3	4482.150	7.47	30.18	46.41	53.36	44.60	68.20	-23.60	peak
4	7989.893	9.41	36.20	45.81	51.90	51.70	68.20	-16.50	peak
5	p10360.000	11.08	38.85	47.07	49.02	51.88	68.20	-16.32	peak
6	15540.000	13.49	39.74	46.26	46.31	53.28	74.00	-20.72	peak



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

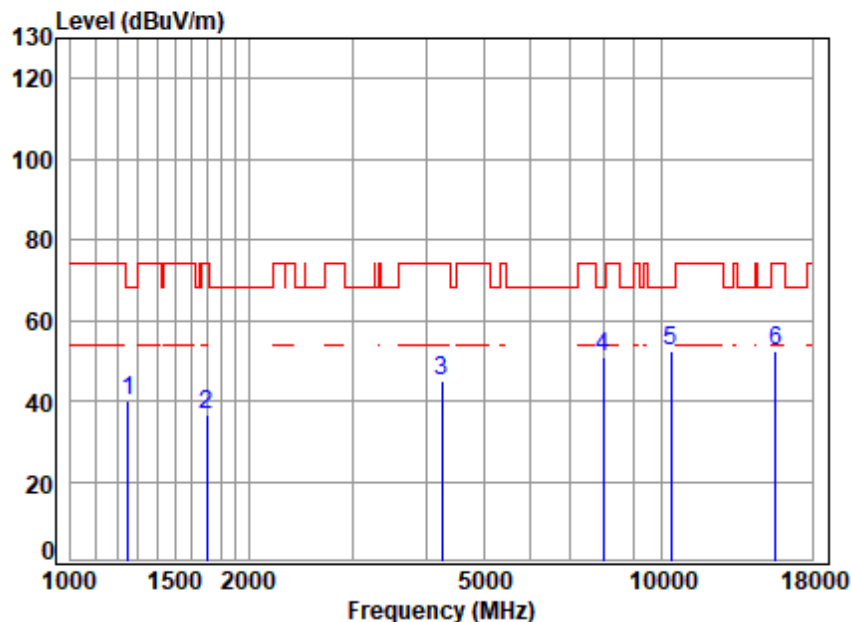
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	58.30	39.33	68.20	-28.87	peak
2	1677.621	4.15	24.96	46.38	54.38	37.11	74.00	-36.89	peak
3	3567.138	7.06	28.81	46.20	55.92	45.59	68.20	-22.61	peak
4	8036.214	9.45	36.20	45.83	51.22	51.04	74.00	-22.96	peak
5	10400.000	11.07	38.89	47.03	50.01	52.94	68.20	-15.26	peak
6	15600.000	13.50	39.53	46.21	45.89	52.71	74.00	-21.29	peak



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Test Mode: 02; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

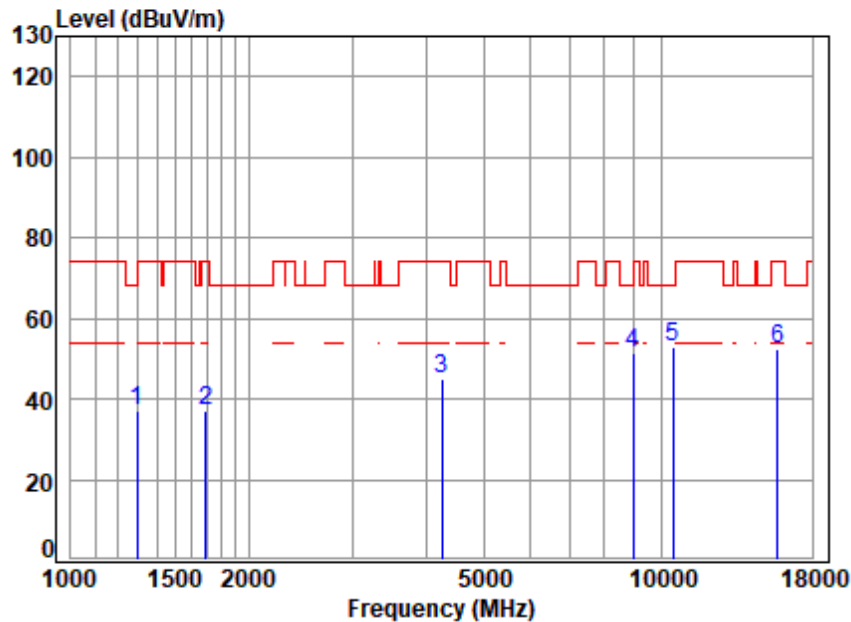
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	58.84	39.87	68.20	-28.33	peak
2	1702.042	4.20	25.01	46.37	53.75	36.59	74.00	-37.41	peak
3	4242.641	7.48	29.85	46.12	53.74	44.95	74.00	-29.05	peak
4	7966.832	9.37	36.21	45.83	51.14	50.89	68.20	-17.31	peak
5	p10400.000	11.07	38.89	47.03	49.54	52.47	68.20	-15.73	peak
6	15600.000	13.50	39.53	46.21	45.77	52.59	74.00	-21.41	peak



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

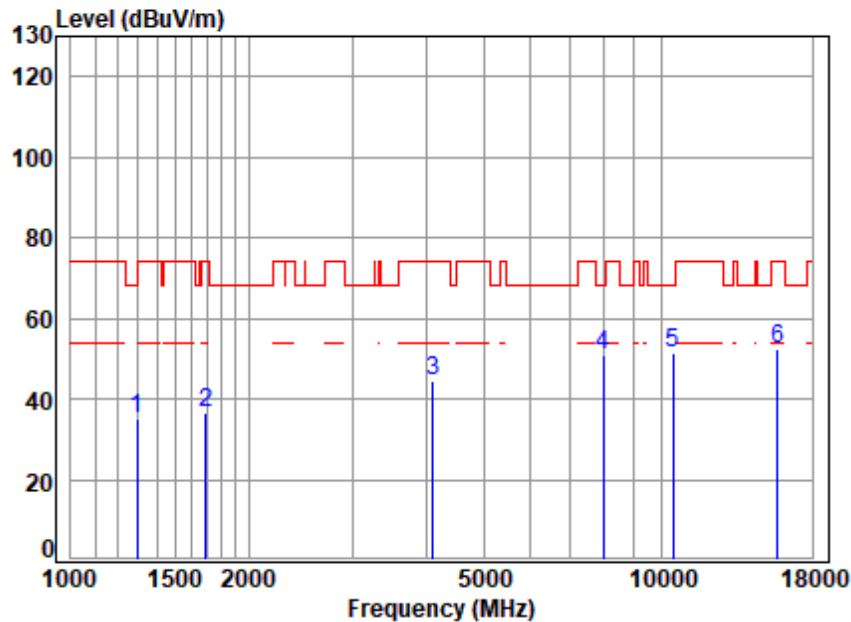
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.36	24.25	46.49	55.91	37.03	68.20	-31.17	peak
2	1692.231	4.18	24.99	46.37	54.35	37.15	74.00	-36.85	peak
3	4242.641	7.48	29.85	46.12	54.00	45.21	74.00	-28.79	peak
4	8943.274	10.63	36.11	46.65	51.18	51.27	68.20	-16.93	peak
5	10480.000	11.06	38.99	46.96	49.75	52.84	68.20	-15.36	peak
6	15720.000	13.50	39.13	46.12	45.91	52.42	74.00	-21.58	peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

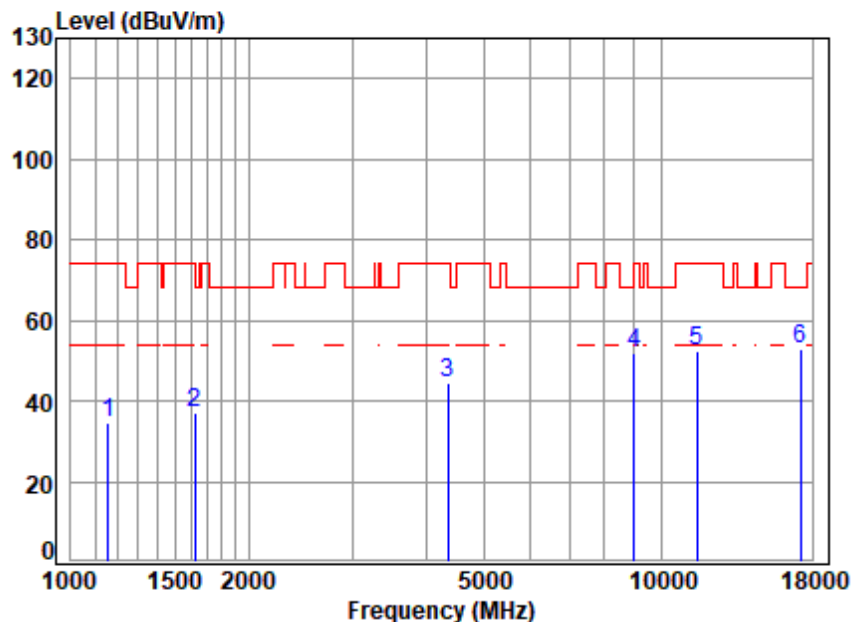
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.36	24.25	46.49	54.08	35.20	68.20	-33.00	peak
2	1692.231	4.18	24.99	46.37	53.93	36.73	74.00	-37.27	peak
3	4109.872	7.49	29.66	45.95	53.49	44.69	74.00	-29.31	peak
4	7966.832	9.37	36.21	45.83	51.26	51.01	68.20	-17.19	peak
5	p10480.000	11.06	38.99	46.96	48.35	51.44	68.20	-16.76	peak
6	15720.000	13.50	39.13	46.12	45.95	52.46	74.00	-21.54	peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

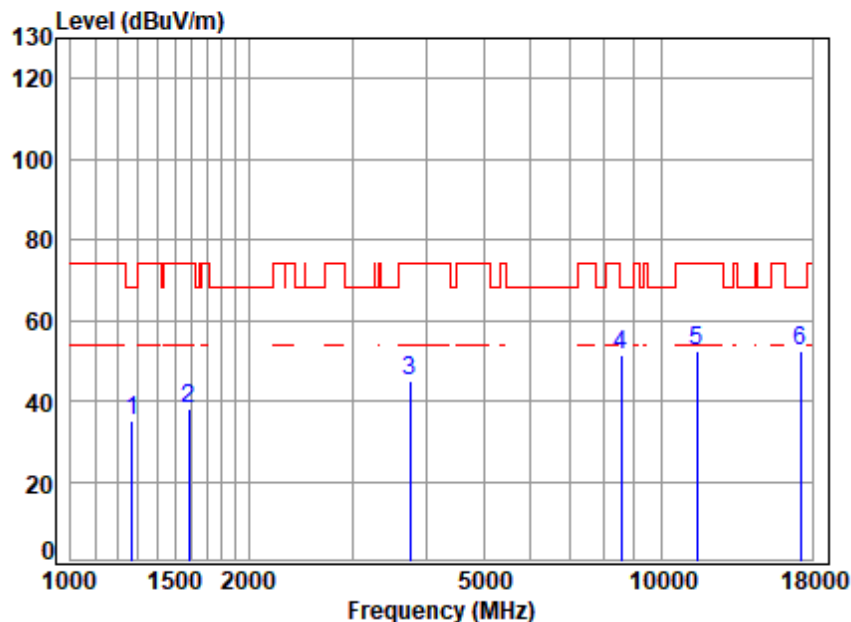
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	3.04	24.26	46.54	53.60	34.36	74.00	-39.64	peak
2	1625.121	4.04	24.85	46.39	54.78	37.28	74.00	-36.72	peak
3	4354.454	7.48	30.00	46.26	53.45	44.67	74.00	-29.33	peak
4	8995.123	10.74	36.10	46.70	51.92	52.06	68.20	-16.14	peak
5	11490.000	11.60	39.70	46.50	47.76	52.56	74.00	-21.44	peak
6	p17235.000	14.39	42.87	46.17	41.56	52.65	68.20	-15.55	peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

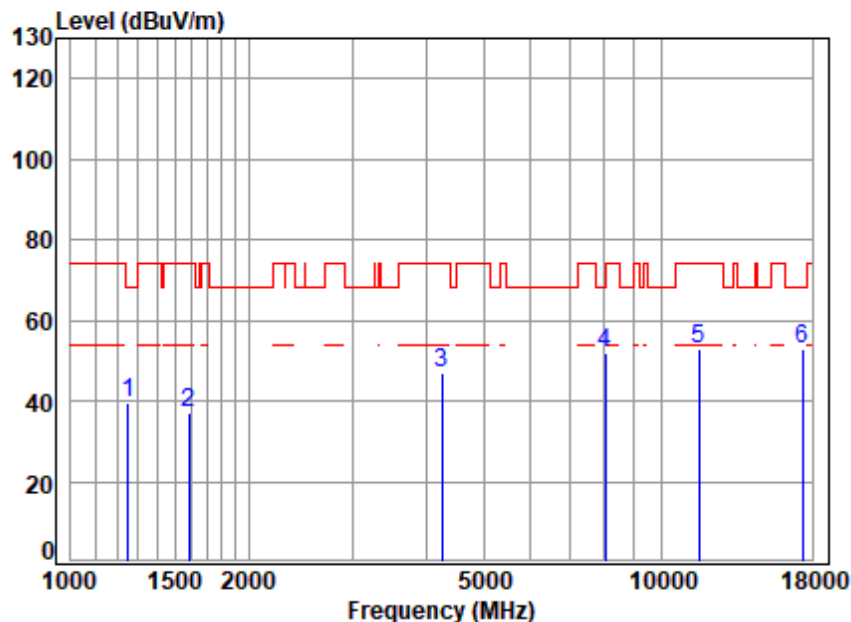
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.31	24.26	46.50	54.26	35.33	68.20	-32.87	peak
2	1583.392	3.95	24.75	46.40	55.87	38.17	74.00	-35.83	peak
3	3757.637	7.26	29.13	46.02	54.74	45.11	74.00	-28.89	peak
4	8563.818	9.81	36.14	46.32	51.72	51.35	68.20	-16.85	peak
5	11490.000	11.60	39.70	46.50	47.77	52.57	74.00	-21.43	peak
6	p17235.000	14.39	42.87	46.17	41.31	52.40	68.20	-15.80	peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

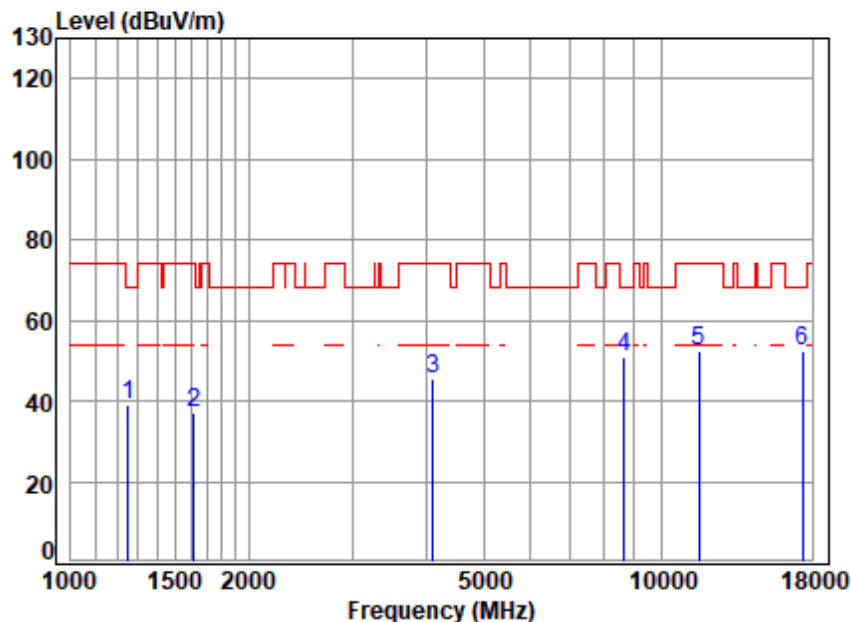
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	58.38	39.41	68.20	-28.79	peak
2	1583.392	3.95	24.75	46.40	54.60	36.90	74.00	-37.10	peak
3	4242.641	7.48	29.85	46.12	55.60	46.81	74.00	-27.19	peak
4	8036.214	9.45	36.20	45.83	52.31	52.13	74.00	-21.87	peak
5	11570.000	11.60	39.72	46.50	48.30	53.12	74.00	-20.88	peak
6	p17355.000	14.44	43.52	46.25	41.06	52.77	68.20	-15.43	peak



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Test Mode: 03; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

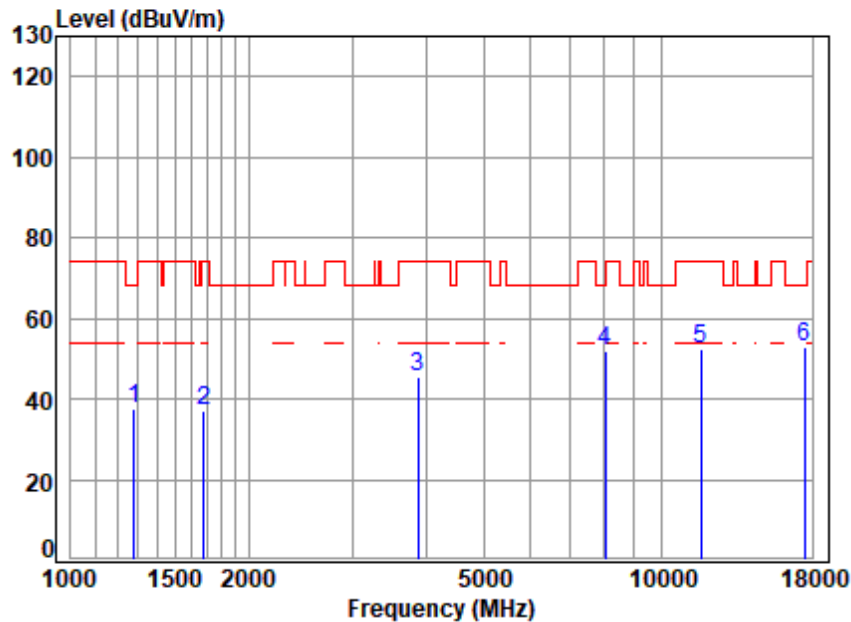
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	57.84	38.87	68.20	-29.33	peak
2	1615.754	4.02	24.83	46.39	54.42	36.88	74.00	-37.12	peak
3	4109.872	7.49	29.66	45.95	54.10	45.30	74.00	-28.70	peak
4	8638.399	9.98	36.13	46.39	51.17	50.89	68.20	-17.31	peak
5	11570.000	11.60	39.72	46.50	47.66	52.48	74.00	-21.52	peak
6	p17355.000	14.44	43.52	46.25	40.59	52.30	68.20	-15.90	peak



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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

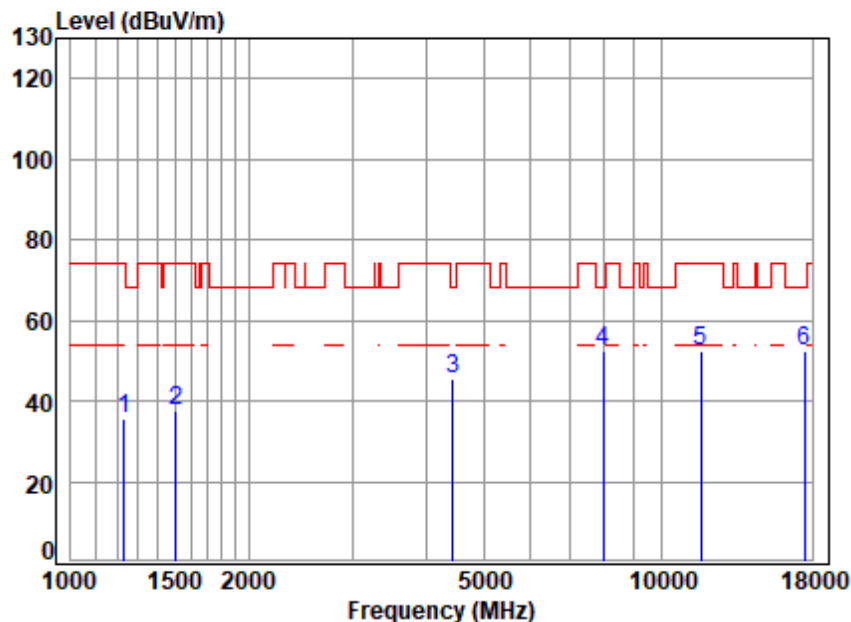
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.33	24.26	46.49	56.66	37.76	68.20	-30.44	peak
2	1677.621	4.15	24.96	46.38	54.52	37.25	74.00	-36.75	peak
3	3867.831	7.36	29.30	45.92	54.53	45.27	74.00	-28.73	peak
4	8036.214	9.45	36.20	45.83	52.19	52.01	74.00	-21.99	peak
5	11650.000	11.60	39.73	46.50	47.65	52.48	74.00	-21.52	peak
6	17475.000	14.48	44.16	46.34	40.47	52.77	68.20	-15.43	peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

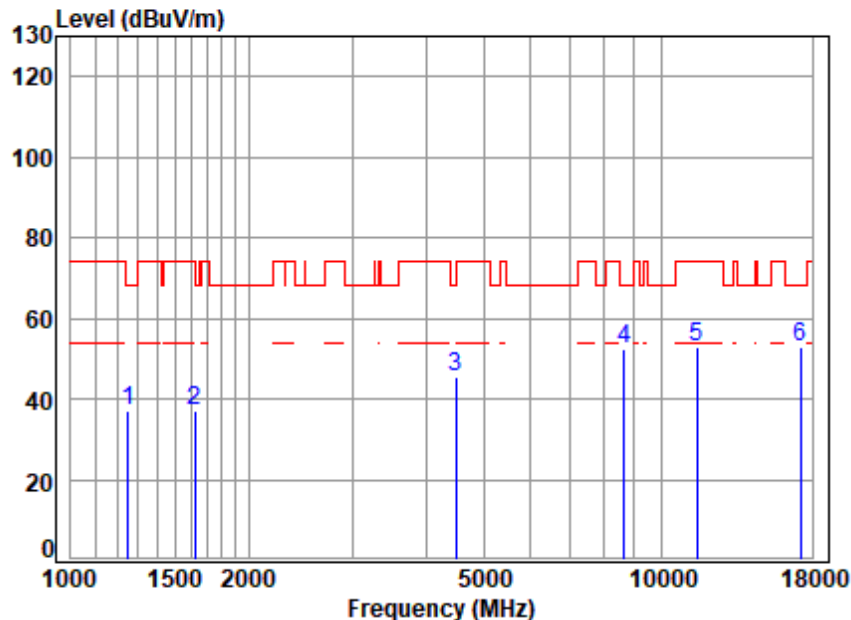
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.22	24.28	46.51	54.82	35.81	74.00	-38.19	peak
2	1507.470	3.79	24.53	46.42	55.47	37.37	74.00	-36.63	peak
3	4430.628	7.47	30.11	46.35	54.00	45.23	68.20	-22.97	peak
4	7966.832	9.37	36.21	45.83	52.66	52.41	68.20	-15.79	peak
5	11650.000	11.60	39.73	46.50	47.68	52.51	74.00	-21.49	peak
6	p17475.000	14.48	44.16	46.34	40.33	52.63	68.20	-15.57	peak



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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

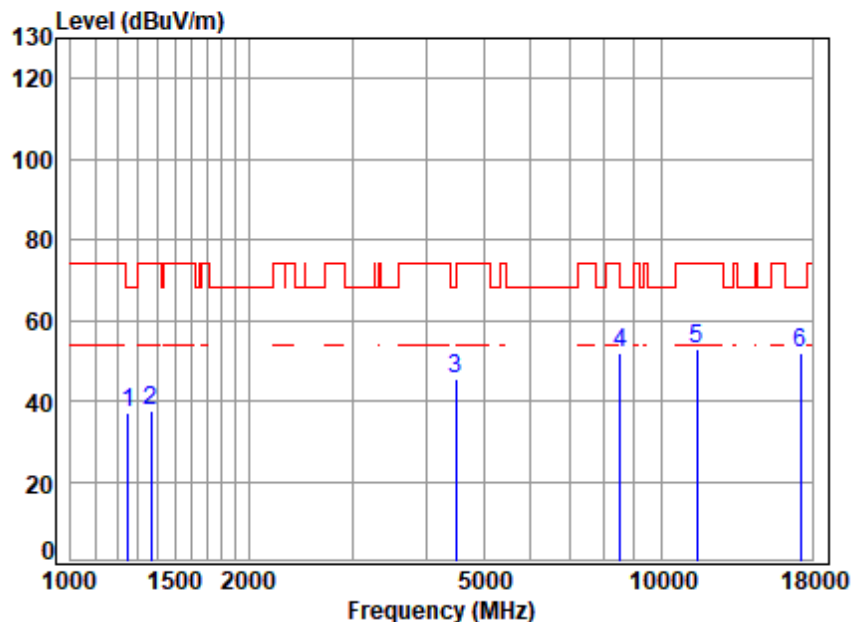
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.27	24.27	46.50	55.98	37.02	68.20	-31.18	peak
2	1620.431	4.03	24.84	46.39	54.53	37.01	74.00	-36.99	peak
3	4482.150	7.47	30.18	46.41	54.27	45.51	68.20	-22.69	peak
4	8638.399	9.98	36.13	46.39	52.91	52.63	68.20	-15.57	peak
5	11490.000	11.60	39.70	46.50	47.86	52.66	74.00	-21.34	peak
6	p17235.000	14.39	42.87	46.17	41.80	52.89	68.20	-15.31	peak



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Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

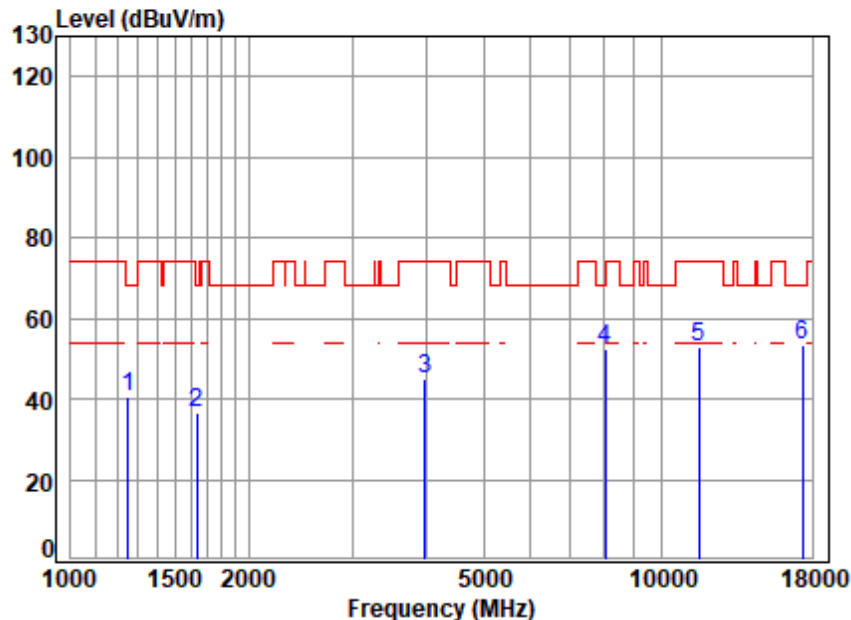
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.27	24.27	46.50	55.98	37.02	68.20	-31.18	peak
2	1366.374	3.51	24.22	46.46	56.32	37.59	74.00	-36.41	peak
3	4482.150	7.47	30.18	46.41	54.27	45.51	68.20	-22.69	peak
4	8514.456	9.70	36.15	46.28	52.25	51.82	68.20	-16.38	peak
5	11490.000	11.60	39.70	46.50	47.86	52.66	74.00	-21.34	peak
6	p17235.000	14.39	42.87	46.17	41.00	52.09	68.20	-16.11	peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

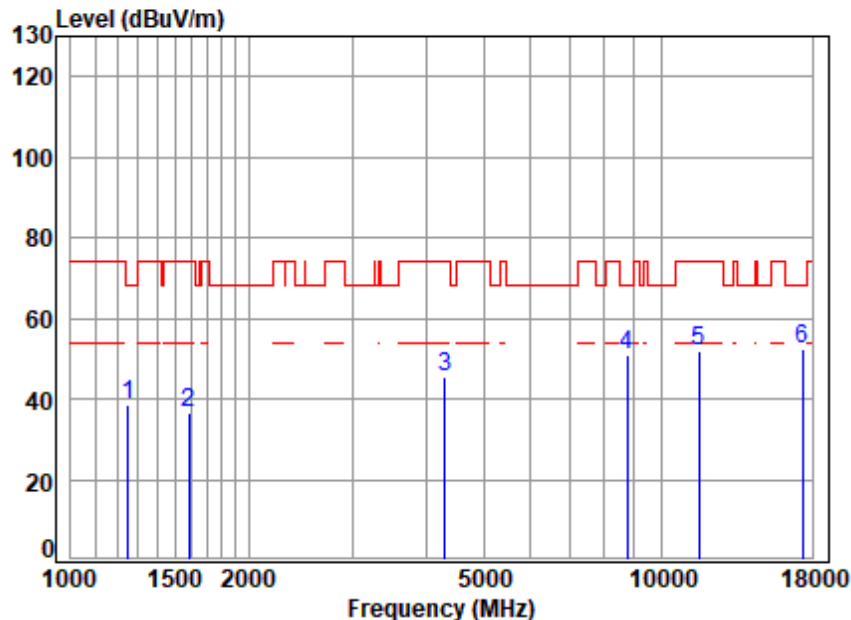
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	59.51	40.54	68.20	-27.66	peak
2	1634.543	4.06	24.87	46.39	54.20	36.74	68.20	-31.46	peak
3	3981.257	7.47	29.47	45.82	54.02	45.14	74.00	-28.86	peak
4	8036.214	9.45	36.20	45.83	52.43	52.25	74.00	-21.75	peak
5	11570.000	11.60	39.72	46.50	48.25	53.07	74.00	-20.93	peak
6	p17355.000	14.44	43.52	46.25	41.51	53.22	68.20	-14.98	peak



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Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

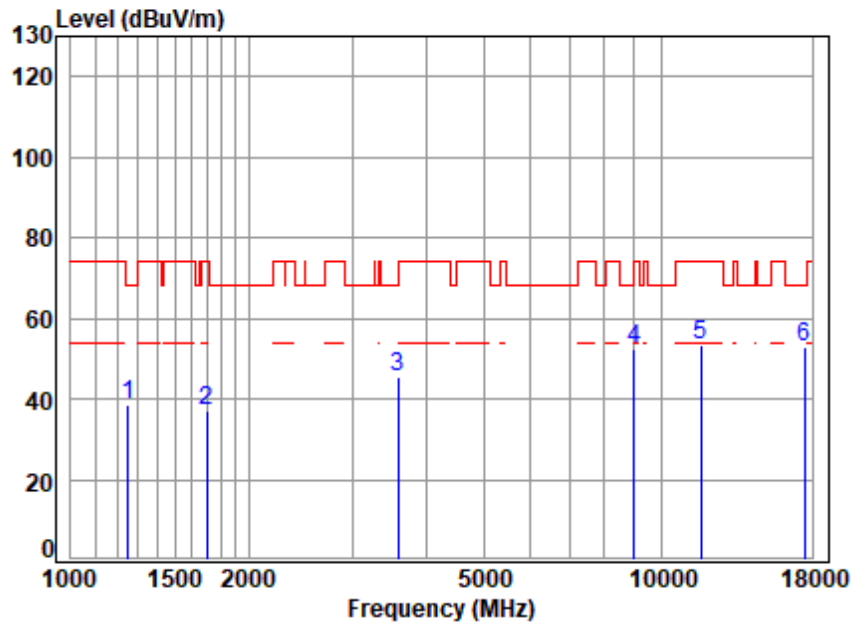
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	57.71	38.74	68.20	-29.46	peak
2	1587.975	3.96	24.77	46.40	54.41	36.74	74.00	-37.26	peak
3	4304.400	7.48	29.94	46.19	54.34	45.57	74.00	-28.43	peak
4	8764.146	10.25	36.12	46.50	50.96	50.83	68.20	-17.37	peak
5	11570.000	11.60	39.72	46.50	47.19	52.01	74.00	-21.99	peak
6	17355.000	14.44	43.52	46.25	40.82	52.53	68.20	-15.67	peak



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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

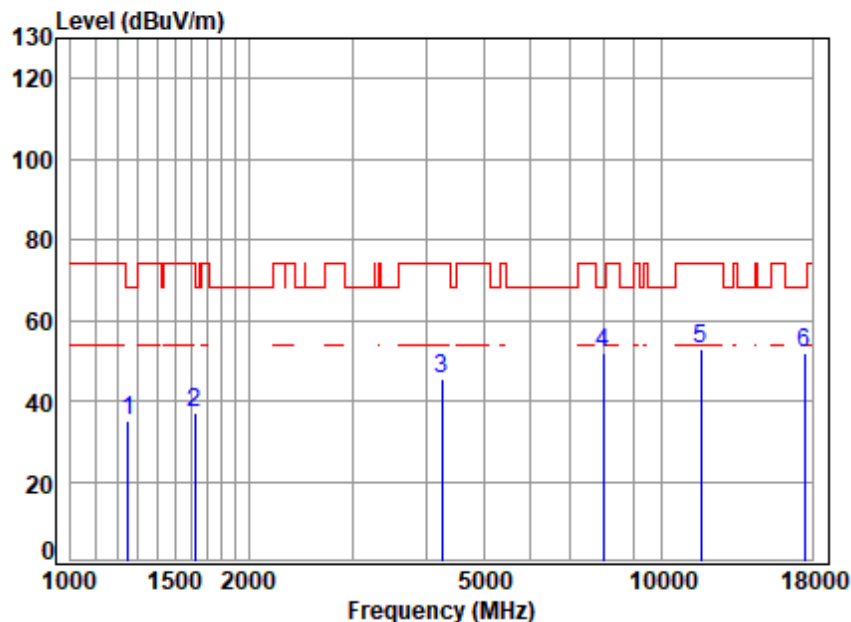
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	46.50	57.48	38.51	68.20	-29.69	peak
2	1702.042	4.20	25.01	46.37	54.21	37.05	74.00	-36.95	peak
3	3577.463	7.07	28.83	46.19	55.63	45.34	68.20	-22.86	peak
4	8995.123	10.74	36.10	46.70	52.11	52.25	68.20	-15.95	peak
5	11650.000	11.60	39.73	46.50	48.42	53.25	74.00	-20.75	peak
6	17475.000	14.48	44.16	46.34	40.52	52.82	68.20	-15.38	peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5825 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	1252.885	3.27	24.27	46.50	54.24	35.28	68.20	-32.92	peak
2	1620.431	4.03	24.84	46.39	54.43	36.91	74.00	-37.09	peak
3	4242.641	7.48	29.85	46.12	54.34	45.55	74.00	-28.45	peak
4	7989.893	9.41	36.20	45.81	51.90	51.70	68.20	-16.50	peak
5	11650.000	11.60	39.73	46.50	48.13	52.96	74.00	-21.04	peak
6	p17475.000	14.48	44.16	46.34	39.40	51.70	68.20	-16.50	peak



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7.9 Radiated Emissions which fall in the restricted bands

Test Requirement: 47 CFR Part 15, Subpart C 15.209 & 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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar



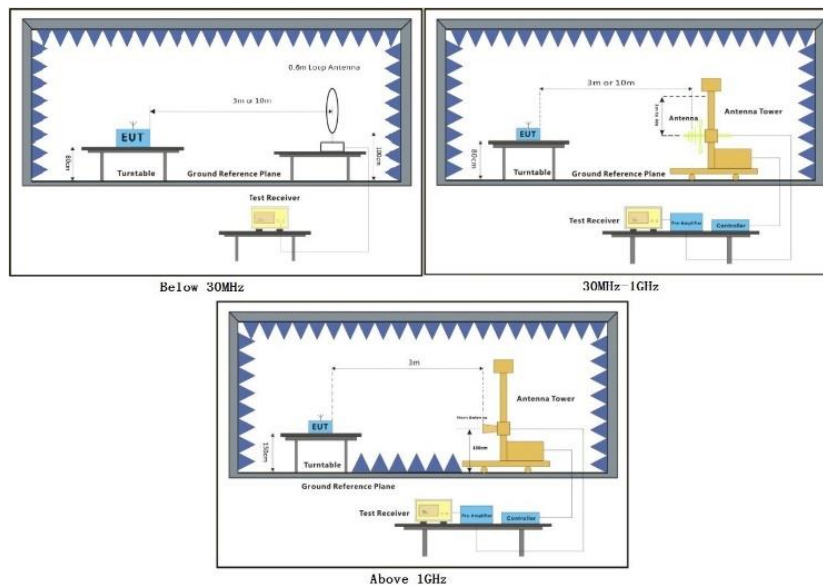
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_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). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



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7.9.4 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.

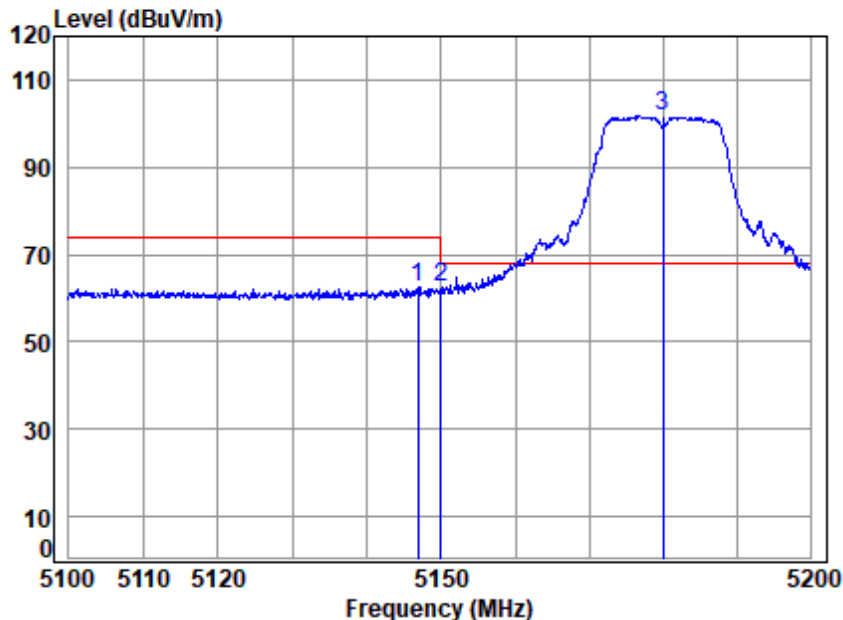
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5180 Band edge
: 5G WIFI 11A

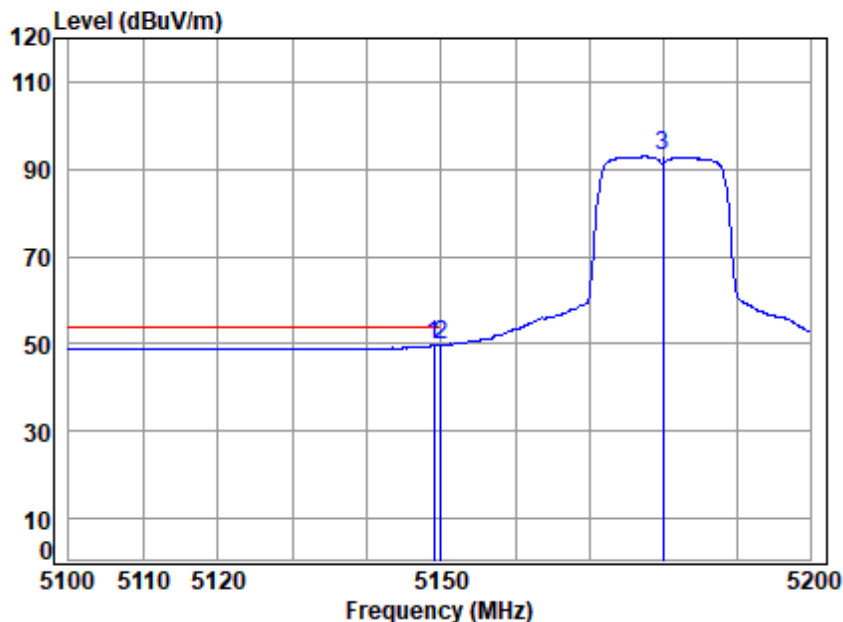
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	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.858	8.29	31.76	46.92	69.59	62.72	74.00	-11.28	peak
2	5149.980	8.29	31.77	46.92	69.44	62.58	74.00	-11.42	peak
3	5180.000	8.29	31.85	46.90	108.51	101.75	68.20	33.55	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5180 Band edge
: 5G WIFI 11A

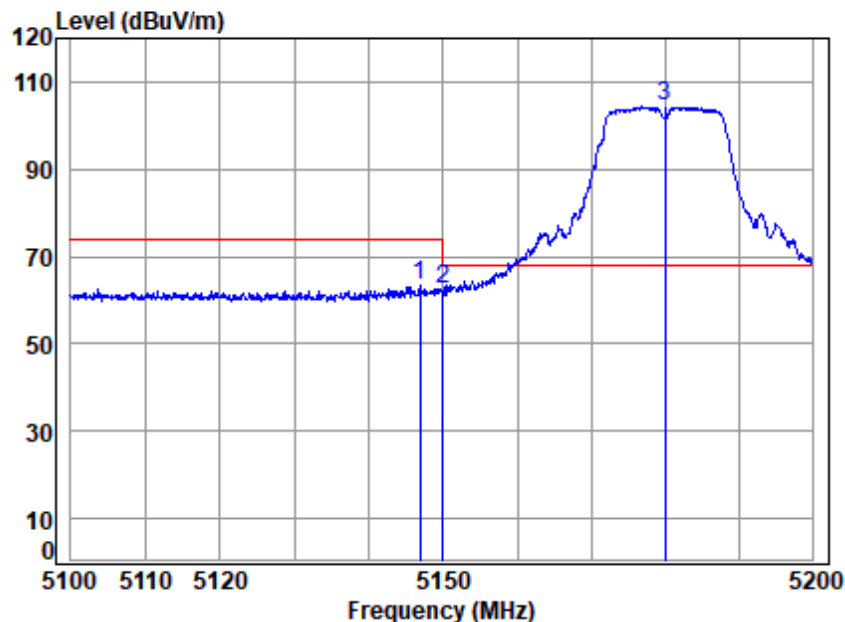
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.958	8.29	31.77	46.92	56.51	49.65	54.00	-4.35 Average
2	5149.980	8.29	31.77	46.92	56.79	49.93	54.00	-4.07 Average
3	5180.000	8.29	31.85	46.90	99.77	93.01	-----	----- Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5180 Band edge
: 5G WIFI 11A

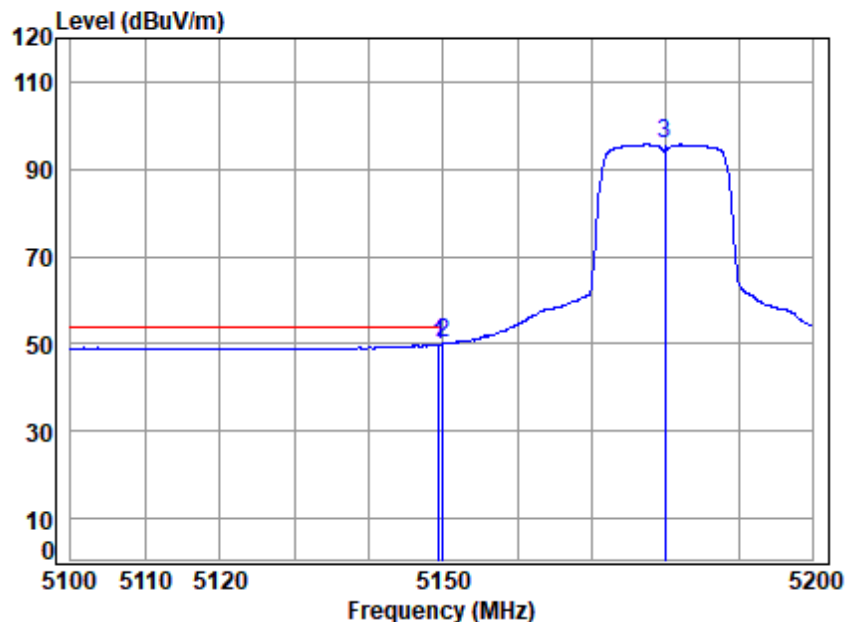
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.858	8.29	31.76	46.92	70.49	63.62	74.00	-10.38 Peak
2	5149.980	8.29	31.77	46.92	69.30	62.44	74.00	-11.56 Peak
3	5180.000	8.29	31.85	46.90	111.12	104.36	68.20	36.16 Peak



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Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5180 Band edge
: 5G WIFI 11A

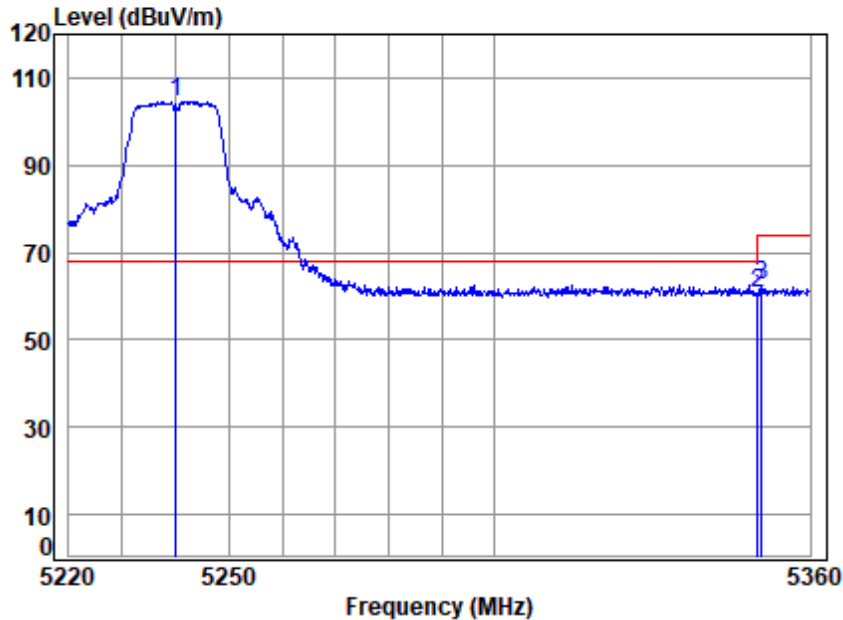
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.458	8.29	31.77	46.92	56.72	49.86	54.00	-4.14 Average
2	5149.980	8.29	31.77	46.92	57.05	50.19	54.00	-3.81 Average
3	5180.000	8.29	31.85	46.90	102.49	95.73	-----	----- Average



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5240 Band edge
: 5G WIFI 11A

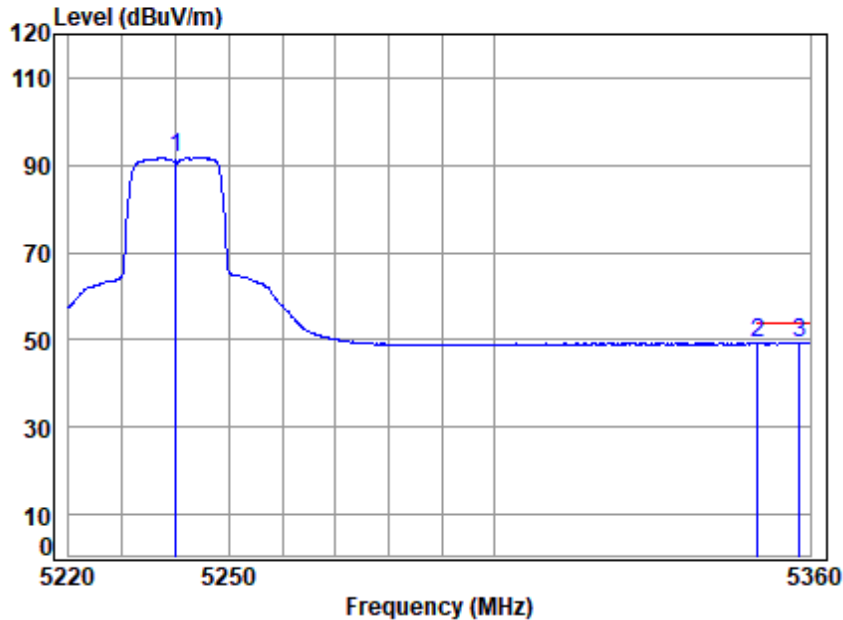
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Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5240.000		8.29	31.99	46.87	111.29	104.70	68.20	36.50 peak
2 5350.020		8.28	32.25	46.81	67.00	60.72	74.00	-13.28 peak
3 5350.787		8.28	32.25	46.81	68.57	62.29	74.00	-11.71 peak



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5240 Band edge
: 5G WIFI 11A

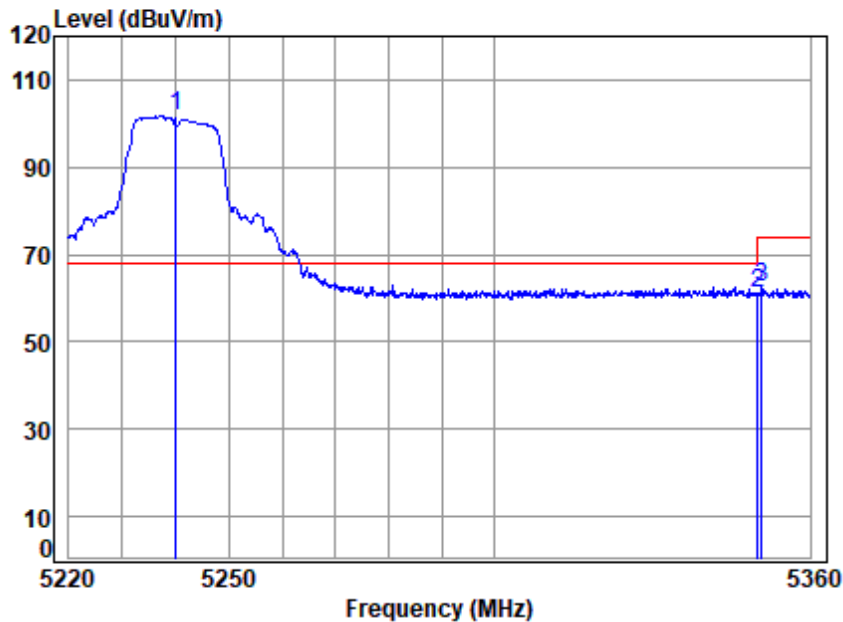
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	46.87	98.29	91.70	-----	----- Average
2	5350.020	8.28	32.25	46.81	55.39	49.11	54.00	-4.89 Average
3	5358.014	8.28	32.27	46.81	55.50	49.24	54.00	-4.76 Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5240 Band edge
: 5G WIFI 11A

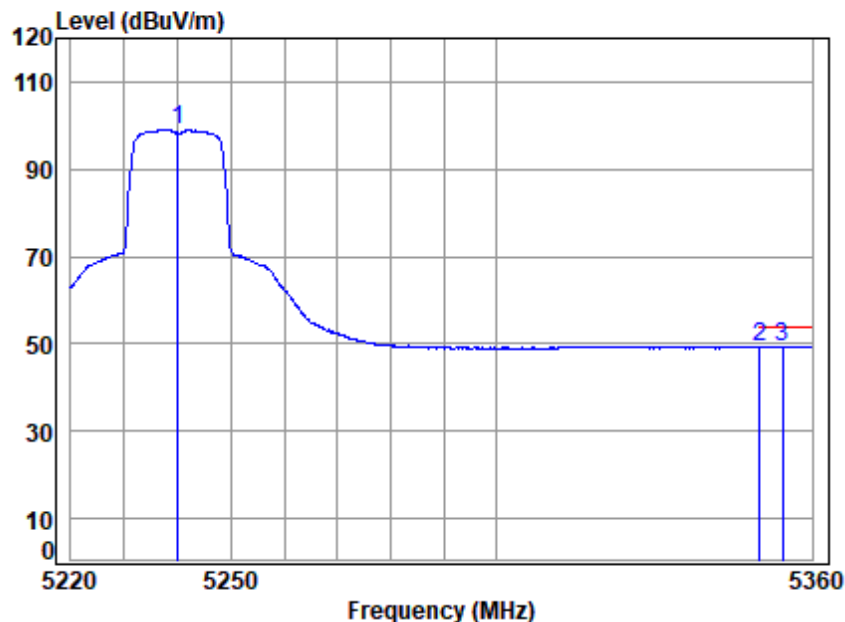
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5240.000		8.29	31.99	46.87	108.23	101.64	68.20	33.44 Peak
2 5350.020		8.28	32.25	46.81	67.54	61.26	74.00	-12.74 Peak
3 5350.787		8.28	32.25	46.81	68.67	62.39	74.00	-11.61 Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5240 Band edge
: 5G WIFI 11A

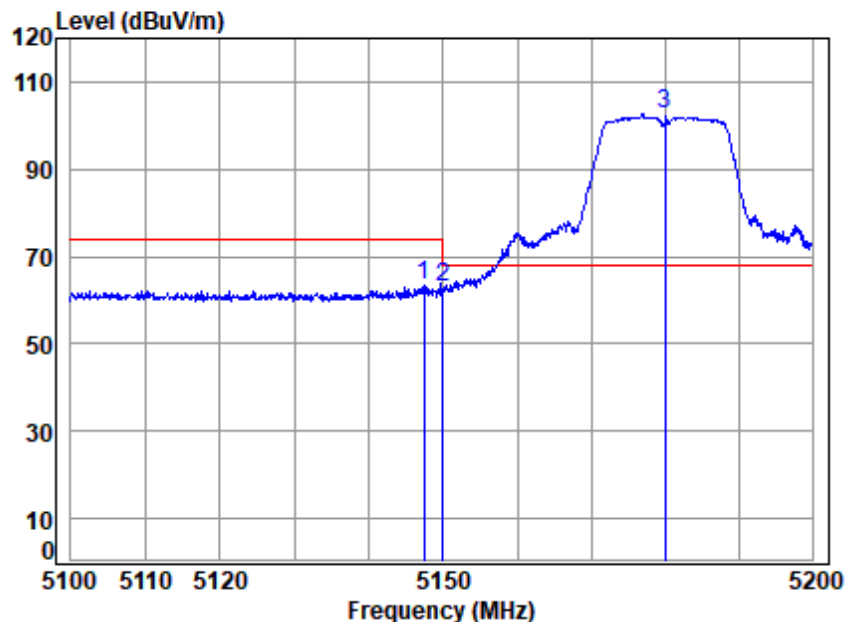
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	46.87	105.68	99.09	-----	----- Average
2	5350.020	8.28	32.25	46.81	55.44	49.16	54.00	-4.84 Average
3	5354.329	8.28	32.26	46.81	55.68	49.41	54.00	-4.59 Average



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
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	5147.358	8.29	31.77	46.92	70.22	63.36	74.00	-10.64	peak
2	5149.980	8.29	31.77	46.92	69.70	62.84	74.00	-11.16	peak
3	5180.000	8.29	31.85	46.90	109.56	102.80	68.20	34.60	peak

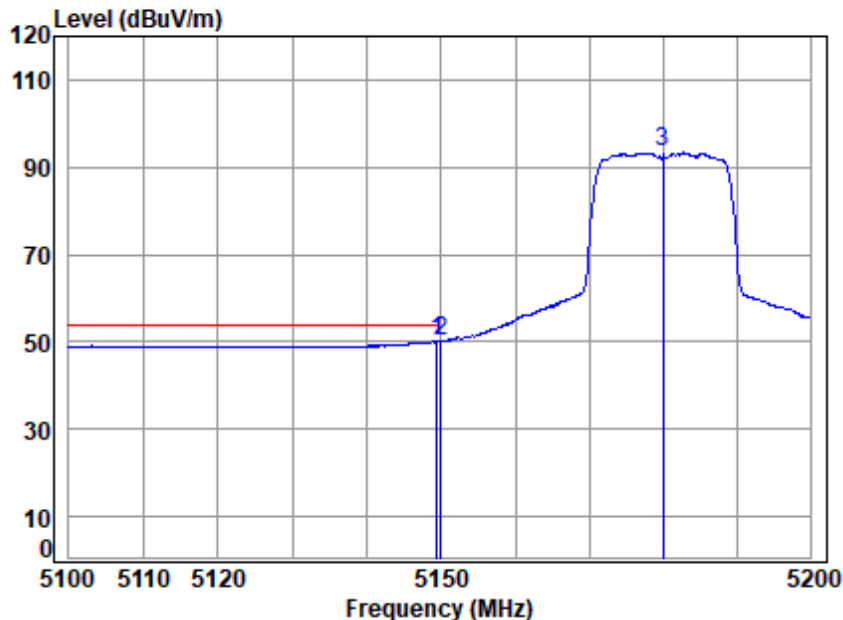


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Shenzhen Branch

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5180 Band edge
: 5G WIFI 11N20

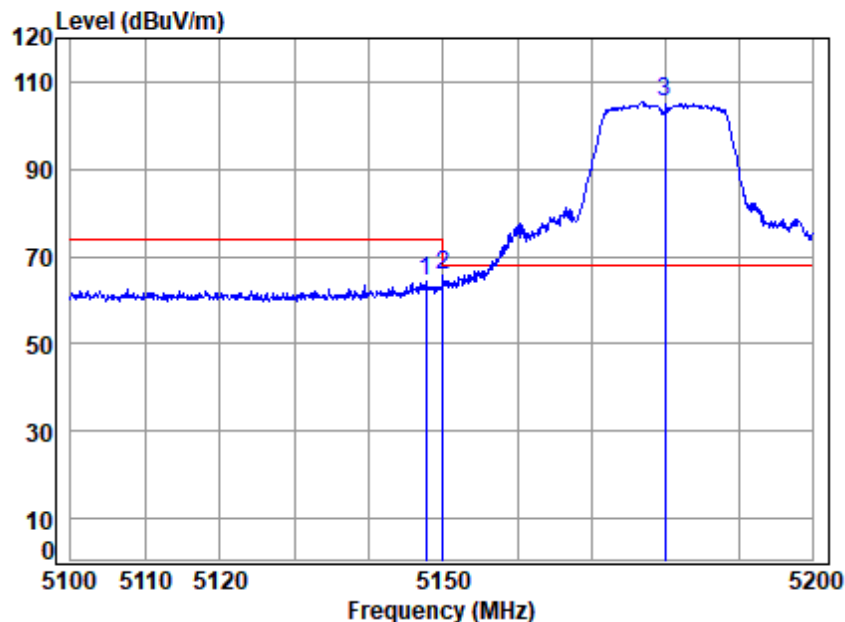
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.458	8.29	31.77	46.92	56.93	50.07	54.00	-3.93 Average
2	5149.980	8.29	31.77	46.92	57.27	50.41	54.00	-3.59 Average
3	5180.000	8.29	31.85	46.90	100.09	93.33	-----	----- Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5180 Band edge
: 5G WIFI 11N20

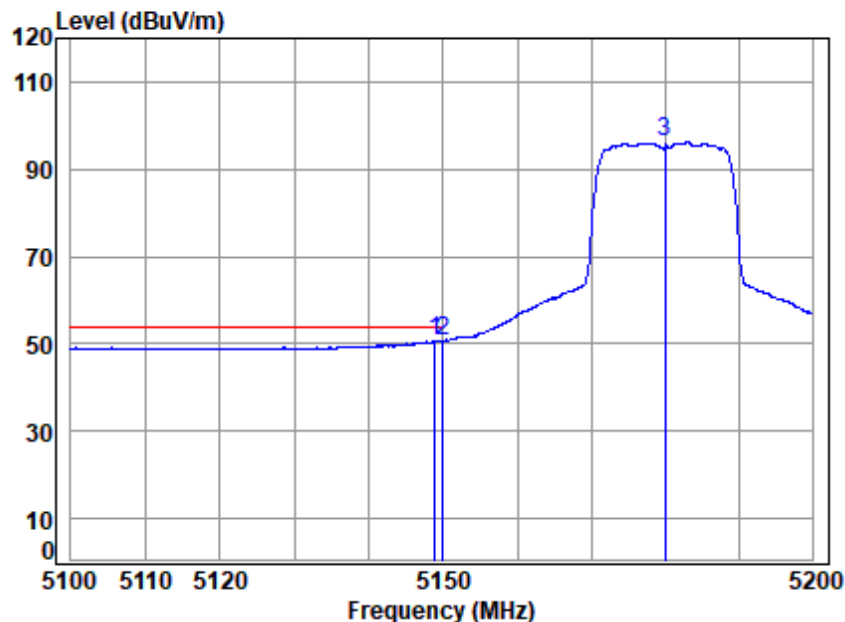
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.658	8.29	31.77	46.92	71.39	64.53	74.00	-9.47 Peak
2	5149.980	8.29	31.77	46.92	72.41	65.55	74.00	-8.45 Peak
3	5180.000	8.29	31.85	46.90	112.13	105.37	68.20	37.17 Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5180 Band edge
: 5G WIFI 11N20

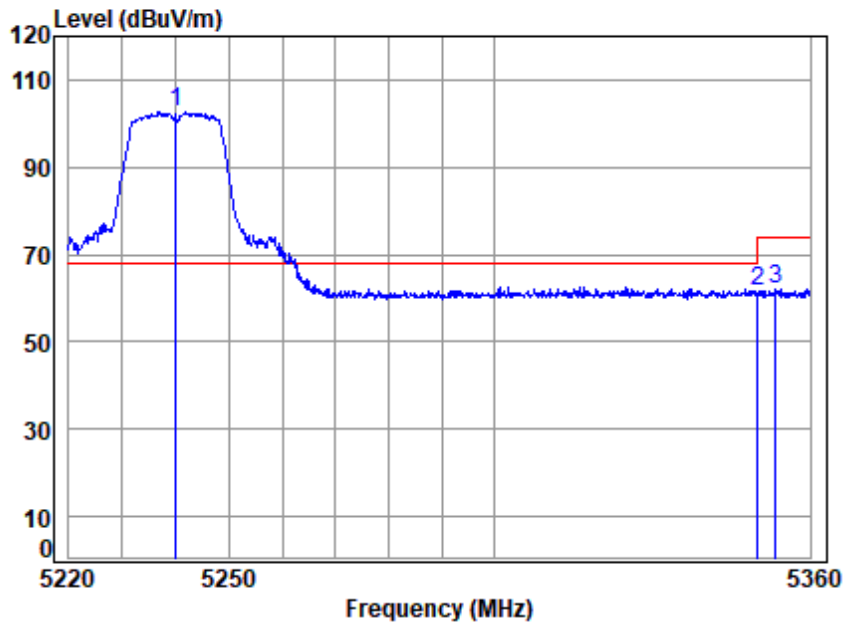
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.857	8.29	31.77	46.92	57.45	50.59	54.00	-3.41	Average
2	5149.980	8.29	31.77	46.92	57.66	50.80	54.00	-3.20	Average
3	5180.000	8.29	31.85	46.90	102.98	96.22	-----	-----	Average



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5240 Band edge
: 5G WIFI 11N20

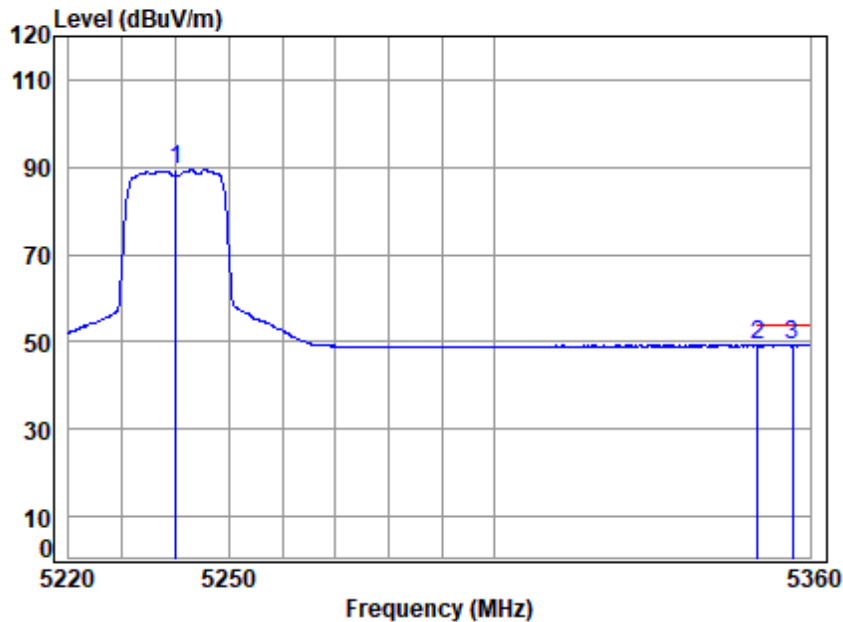
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.29	31.99	46.87	109.29	102.70	68.20	34.50	peak
2	5350.020	8.28	32.25	46.81	67.80	61.52	74.00	-12.48	peak
3	5353.337	8.28	32.26	46.81	68.52	62.25	74.00	-11.75	peak



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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5240 Band edge
: 5G WIFI 11N20

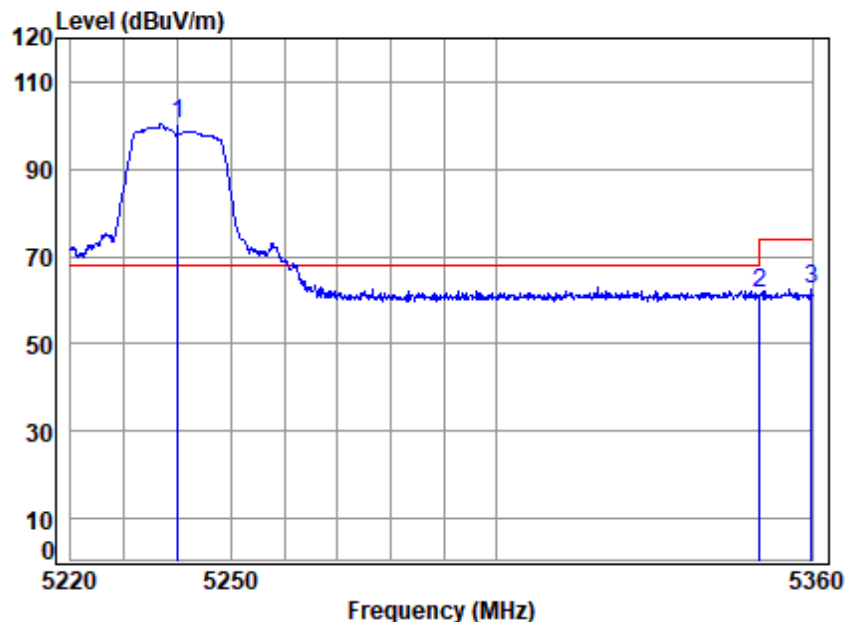
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	46.87	95.95	89.36	-----	----- Average
2	5350.020	8.28	32.25	46.81	55.38	49.10	54.00	-4.90 Average
3	5356.596	8.28	32.27	46.81	55.51	49.25	54.00	-4.75 Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5240 Band edge
: 5G WIFI 11N20

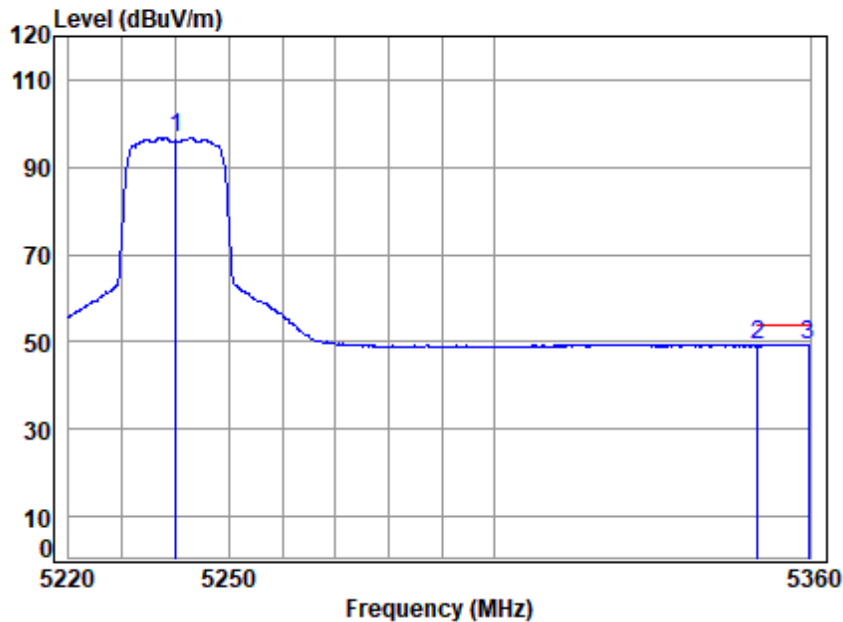
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	46.87	106.90	100.31	68.20	32.11 Peak
2	5350.020	8.28	32.25	46.81	67.70	61.42	74.00	-12.58 Peak
3	5359.858	8.28	32.28	46.81	68.67	62.42	74.00	-11.58 Peak



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Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5240 Band edge
: 5G WIFI 11N20

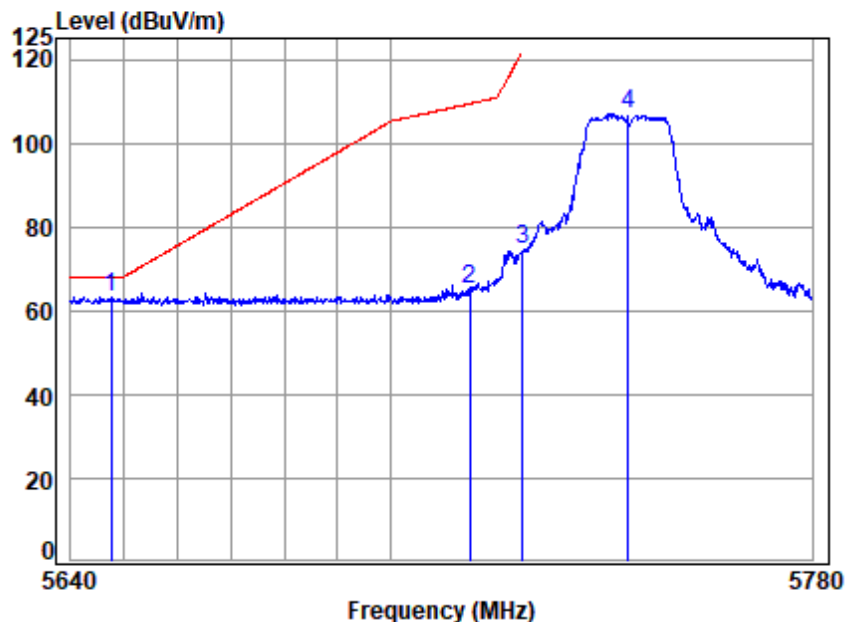
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	46.87	103.29	96.70	-----	----- Average
2	5350.020	8.28	32.25	46.81	55.37	49.09	54.00	-4.91 Average
3	5359.716	8.28	32.27	46.81	55.54	49.28	54.00	-4.72 Average



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5745 Band edge
: 5G WIFI 11A

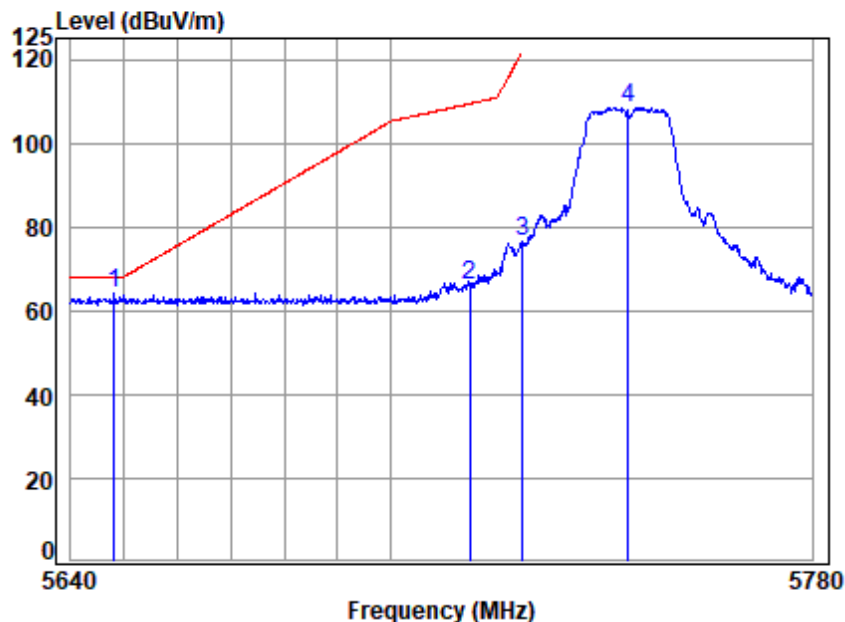
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5647.611	8.08	32.54	46.67	69.29	63.24	68.20	-4.96 peak
2	5715.000	7.99	32.51	46.63	71.31	65.18	109.40	-44.22 peak
3	5725.000	7.98	32.51	46.63	80.81	74.67	122.20	-47.53 peak
4	5745.000	7.95	32.50	46.62	113.04	106.87	-----	----- peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5745 Band edge
: 5G WIFI 11A

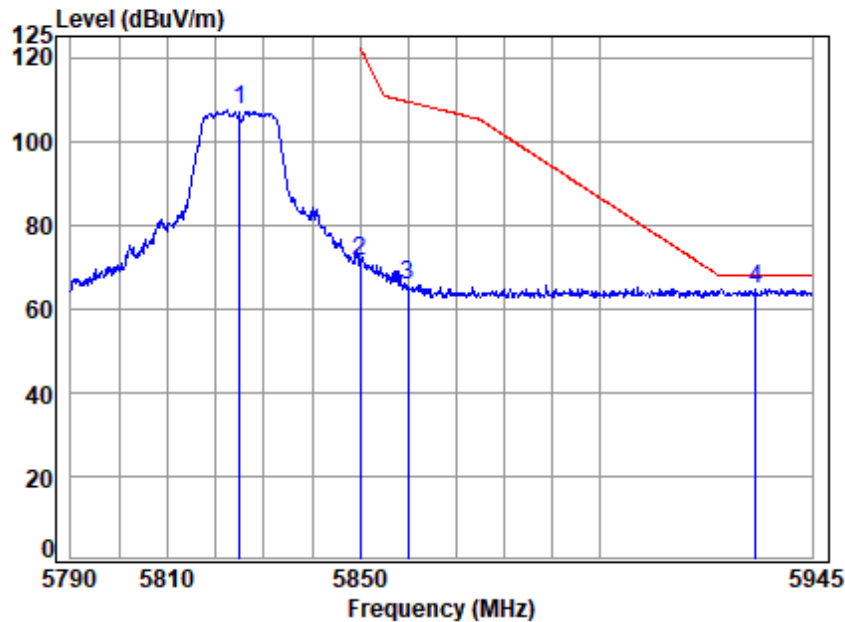
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5648.165	8.08	32.54	46.67	70.01	63.96	68.20	-4.24	peak
2	5715.000	7.99	32.51	46.63	72.38	66.25	109.40	-43.15	peak
3	5725.000	7.98	32.51	46.63	82.49	76.35	122.20	-45.85	peak
4	5745.000	7.95	32.50	46.62	114.66	108.49	-----	-----	peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5825 Band edge
: 5G WIFI 11A

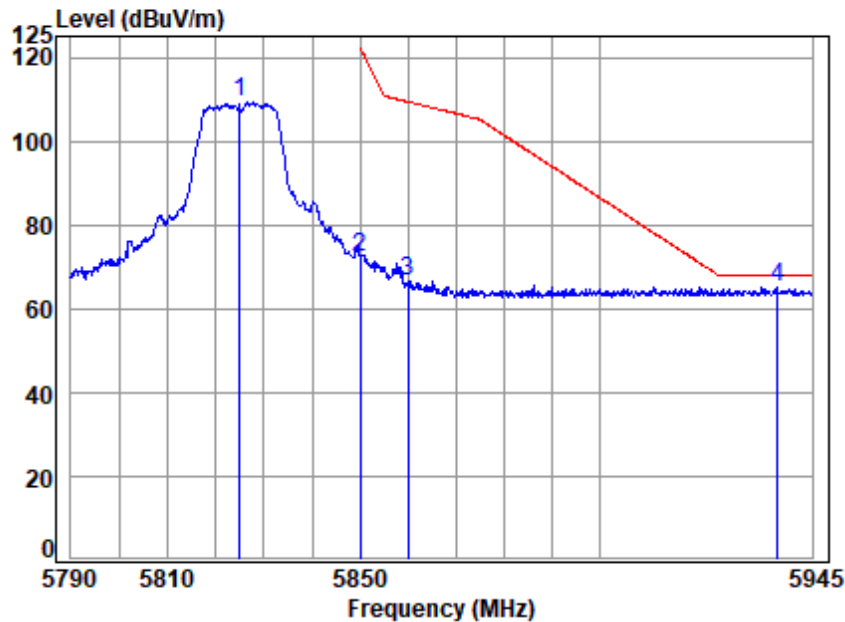
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	7.85	32.47	46.58	113.49	107.23	-----	-----	peak
2	5850.000	7.82	32.46	46.57	77.37	71.08	122.20	-51.12	peak
3	5860.000	7.81	32.45	46.56	71.80	65.50	109.40	-43.90	peak
4	5933.076	7.72	32.43	46.53	71.09	64.71	68.20	-3.49	peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5825 Band edge
: 5G WIFI 11A

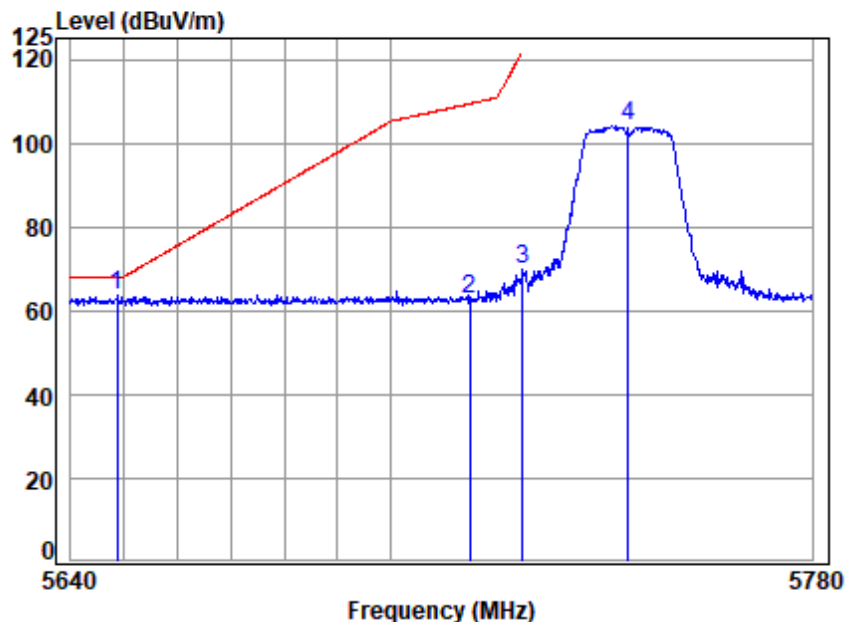
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	7.85	32.47	46.58	115.40	109.14	-----	-----	peak
2	5850.000	7.82	32.46	46.57	78.65	72.36	122.20	-49.84	peak
3	5860.000	7.81	32.45	46.56	72.84	66.54	109.40	-42.86	peak
4	5937.623	7.72	32.42	46.53	71.52	65.13	68.20	-3.07	peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5745 Band edge
: 5G WIFI 11N20

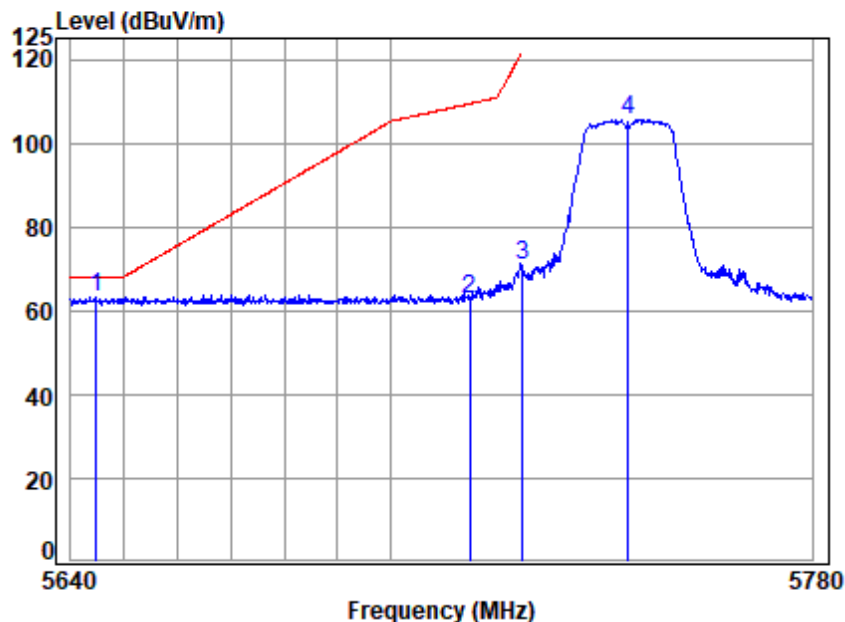
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5648.719	8.08	32.54	46.67	69.80	63.75	68.20	-4.45 peak
2	5715.000	7.99	32.51	46.63	68.64	62.51	109.40	-46.89 peak
3	5725.000	7.98	32.51	46.63	76.21	70.07	122.20	-52.13 peak
4	5745.000	7.95	32.50	46.62	110.40	104.23	-----	----- peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5745 Band edge
: 5G WIFI 11N20

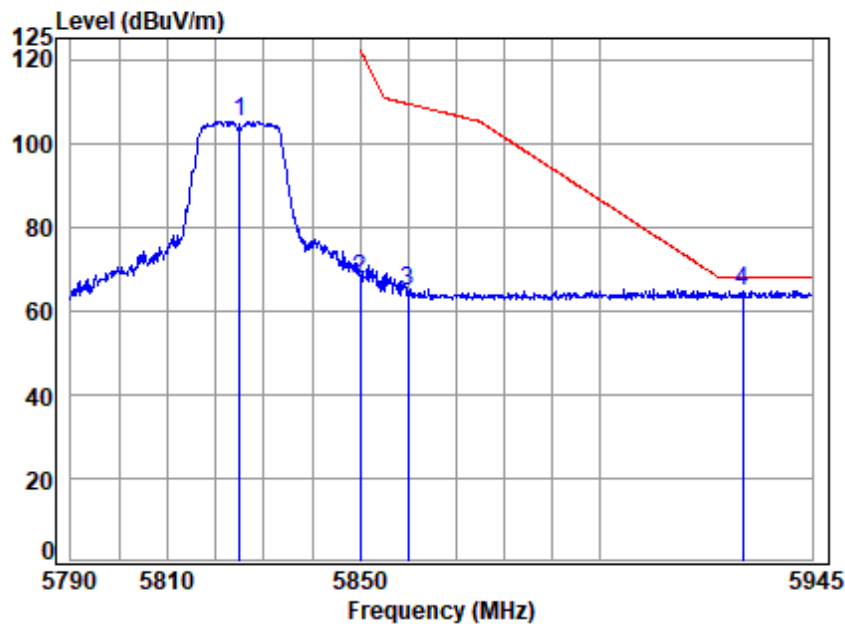
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5644.704	8.08	32.54	46.67	69.27	63.22	68.20	-4.98 peak
2	5715.000	7.99	32.51	46.63	68.78	62.65	109.40	-46.75 peak
3	5725.000	7.98	32.51	46.63	77.12	70.98	122.20	-51.22 peak
4	5745.000	7.95	32.50	46.62	111.76	105.59	-----	----- peak



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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT/00003AT
Mode : 5825 Band edge
: 5G WIFI 11N20

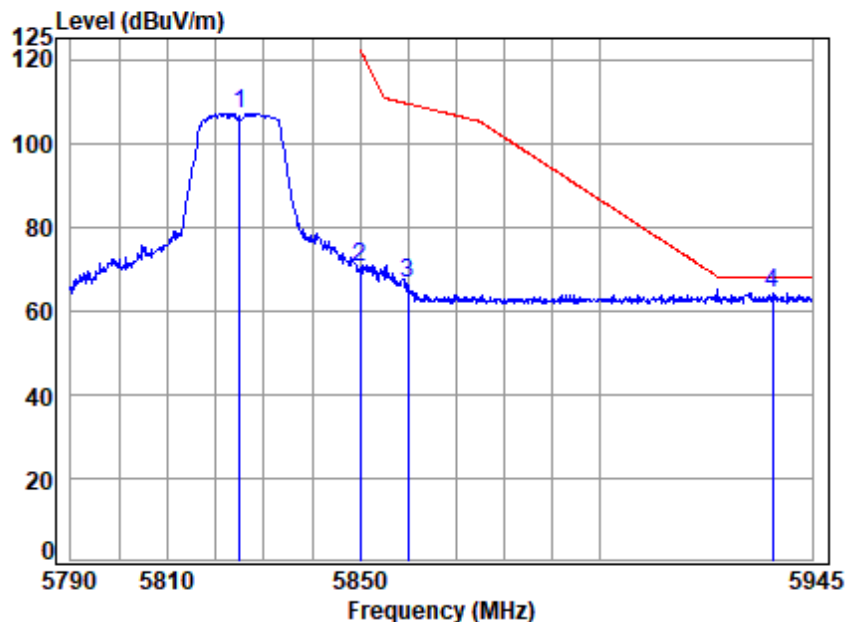
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	7.85	32.47	46.58	111.48	105.22	-----	----- peak
2	5850.000	7.82	32.46	46.57	73.99	67.70	122.20	-54.50 peak
3	5860.000	7.81	32.45	46.56	70.78	64.48	109.40	-44.92 peak
4	5930.255	7.72	32.43	46.53	71.23	64.85	68.20	-3.35 peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT/00003AT
Mode : 5825 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	5825.000	7.85	32.47	46.58	113.34	107.08	-----	----- peak
2	5850.000	7.82	32.46	46.57	76.82	70.53	122.20	-51.67 peak
3	5860.000	7.81	32.45	46.56	72.66	66.36	109.40	-43.04 peak
4	5936.682	7.72	32.42	46.53	70.71	64.32	68.20	-3.88 peak



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7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)
Test Method: ANSI C63.10 (2013) Section 6.8

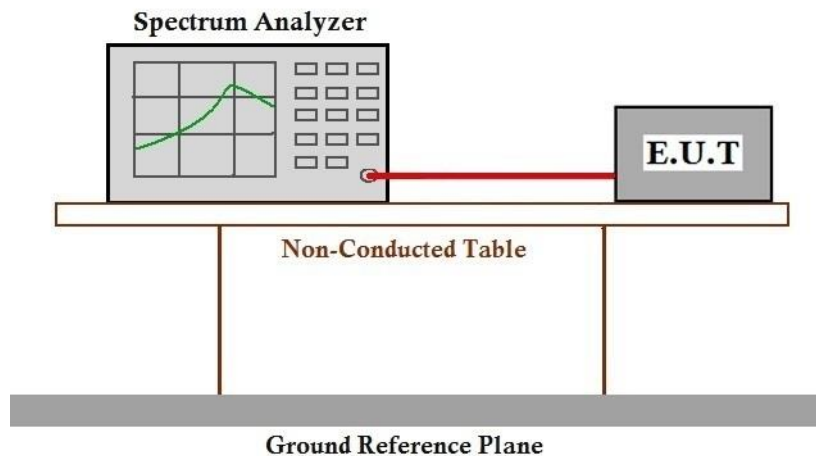
7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 24.1 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_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). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



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7.11 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1015 mbar

7.11.2 Test Mode Description

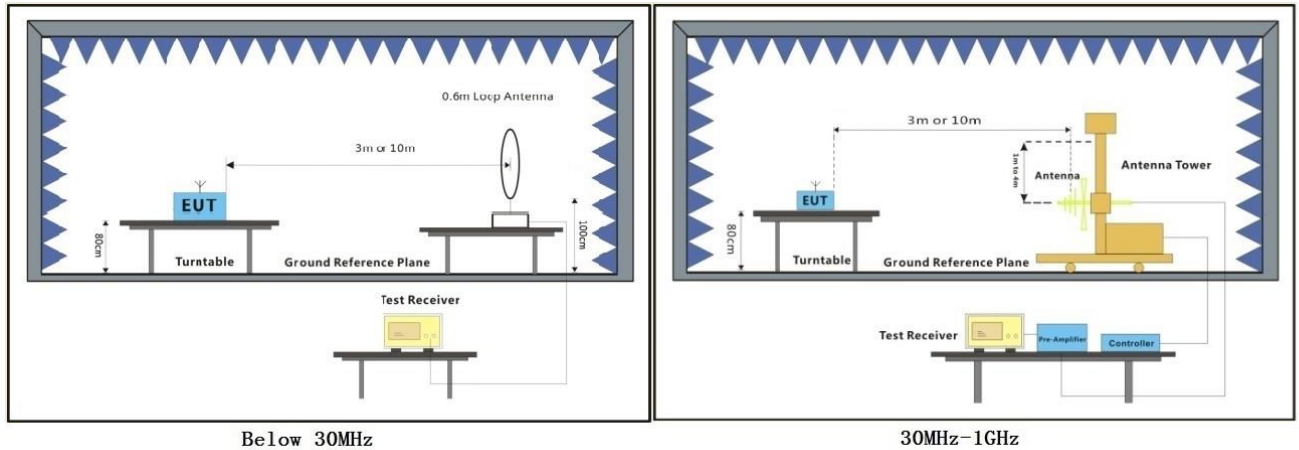
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Pre-scan	03	TX mode (U-NII-3)_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). Only the data of worst case is recorded in the report.



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7.11.3 Test Setup Diagram



7.11.4 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:

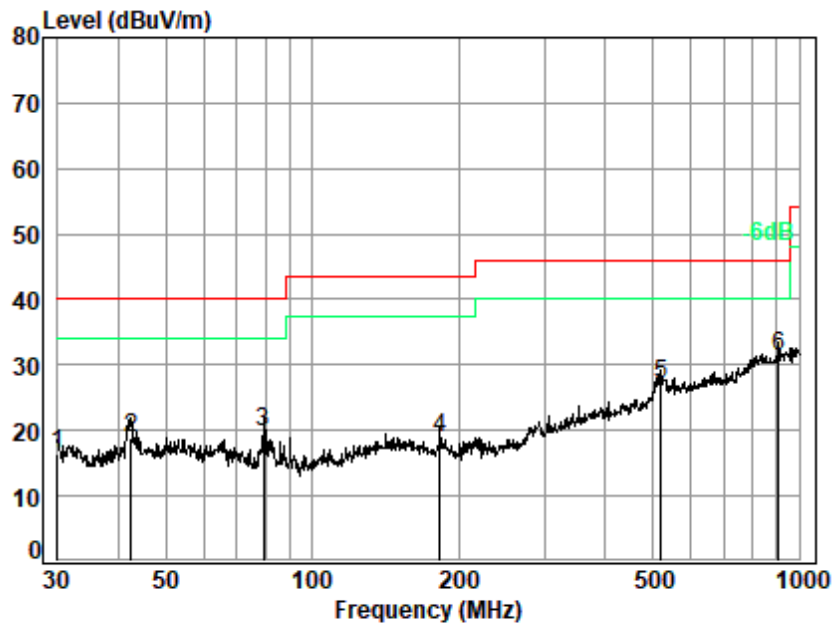
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked 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. For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.



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Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00002AT
Mode : 02

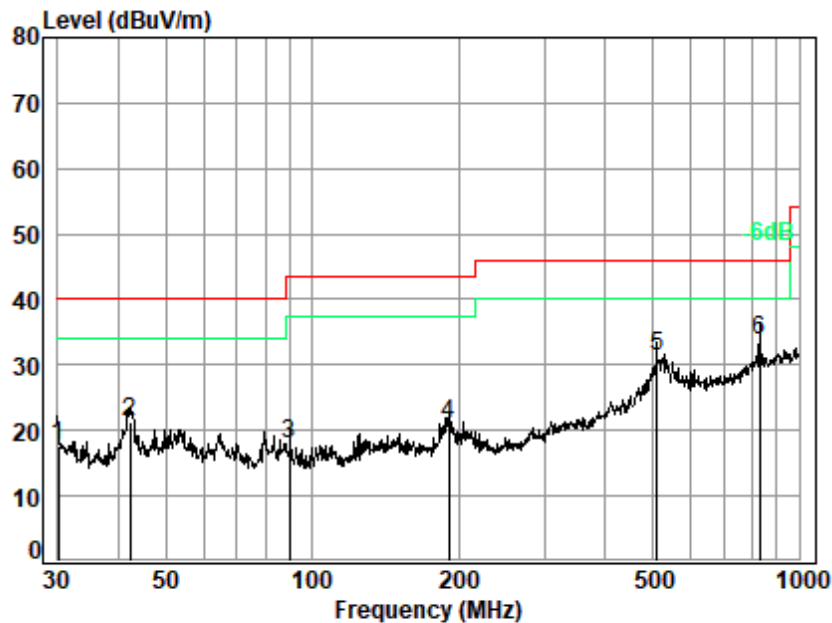
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.0000	0.18	16.39	25.90	25.87	16.54	40.00	-23.46	QP
2	42.4508	0.21	17.19	25.87	27.24	18.77	40.00	-21.23	QP
3	79.5210	0.43	14.48	25.82	30.76	19.85	40.00	-20.15	QP
4	183.2005	0.67	15.95	25.41	27.57	18.78	43.50	-24.72	QP
5	520.8882	1.58	23.29	26.45	28.65	27.07	46.00	-18.93	QP
6 p	906.4824	2.25	28.71	26.38	26.79	31.37	46.00	-14.63	QP



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Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00002AT
Mode : 02

		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	30.1054	0.18	16.30	25.90	27.09	17.67	40.00	-22.33 QP
2	42.1542	0.20	17.17	25.88	29.92	21.41	40.00	-18.59 QP
3	89.9047	0.67	13.61	25.81	29.51	17.98	43.50	-25.52 QP
4	190.4050	0.68	15.49	25.39	30.07	20.85	43.50	-22.65 QP
5	510.0436	1.49	23.22	26.40	33.17	31.48	46.00	-14.52 QP
6 p	830.4001	2.85	27.74	26.53	29.58	33.64	46.00	-12.36 QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photos for FYCR2203000002AT.

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2203000002AT.



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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	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00

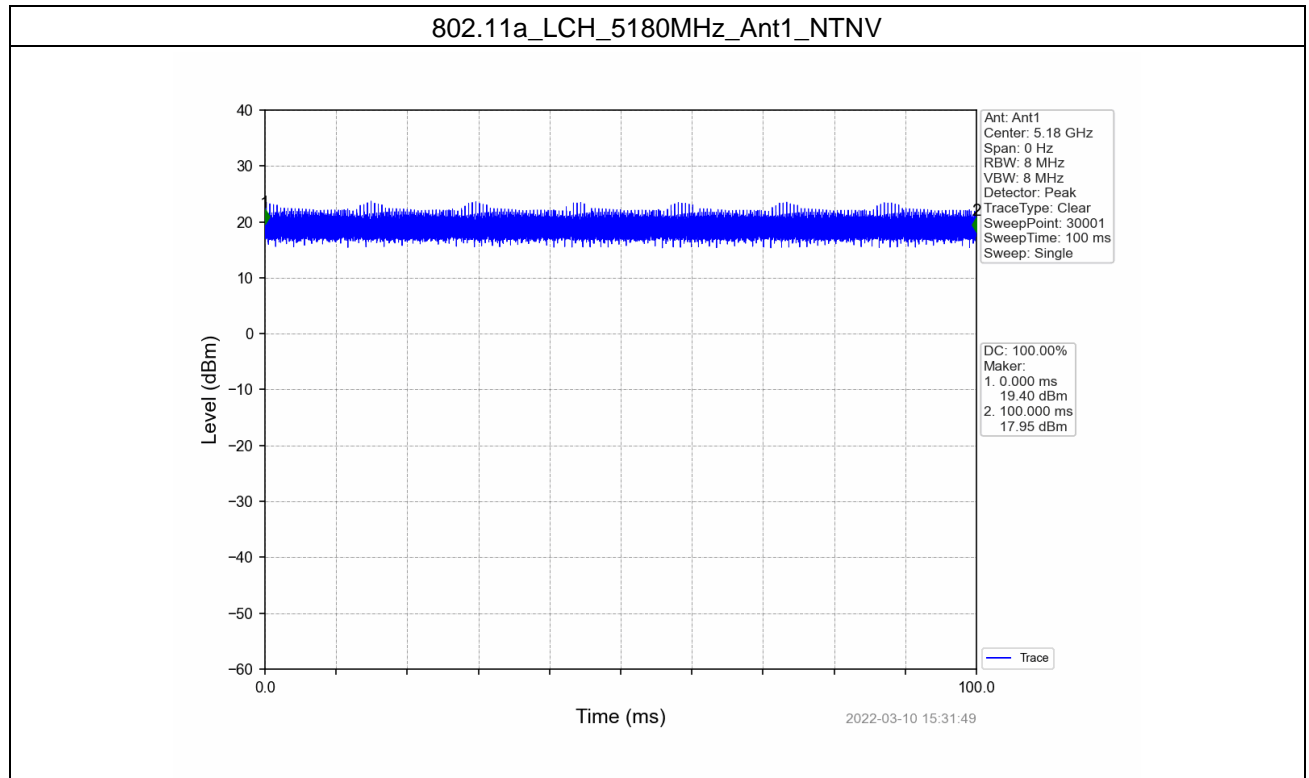


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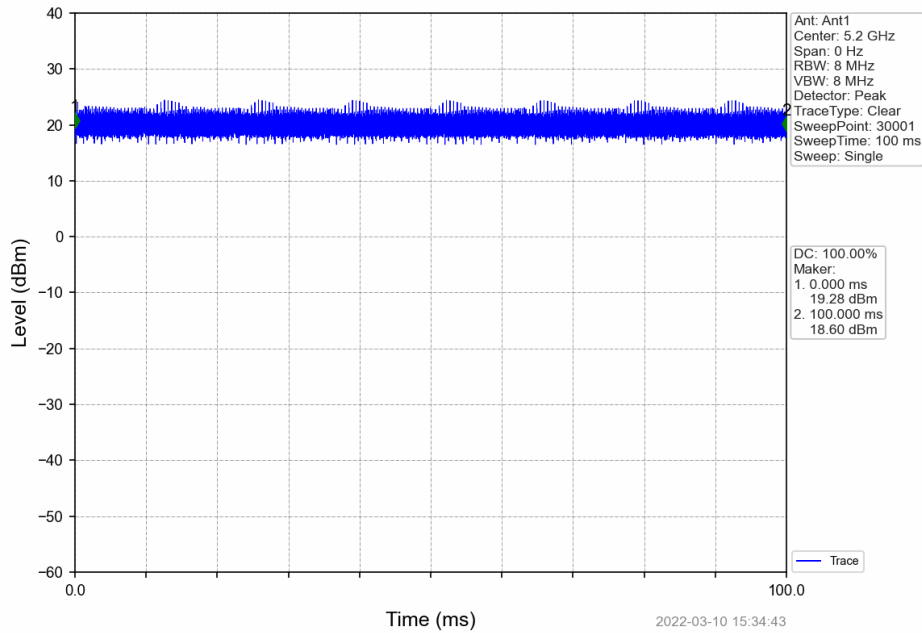
1.1.2 Test Graph



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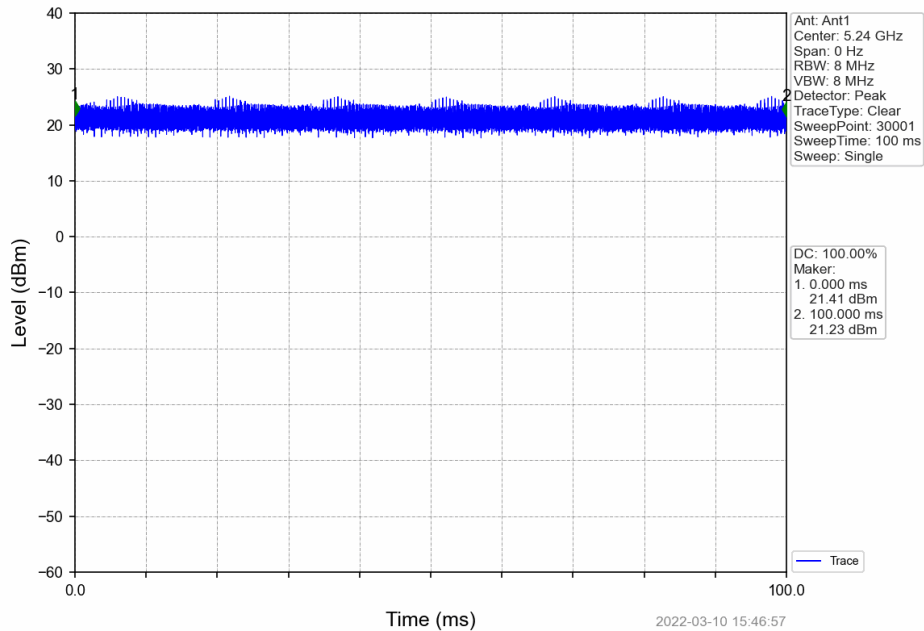
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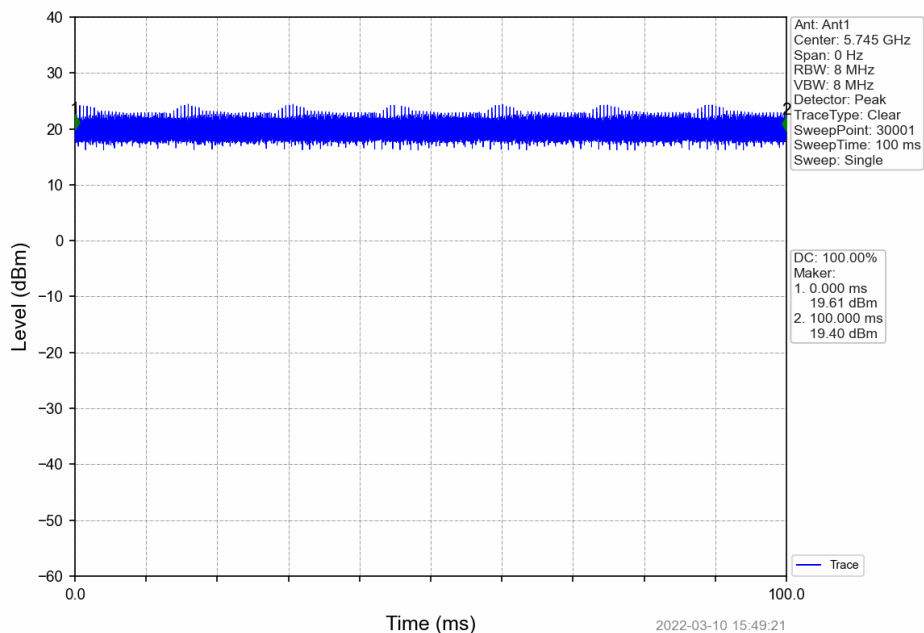
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802.11a_HCH_5240MHz_Ant1_NTNV



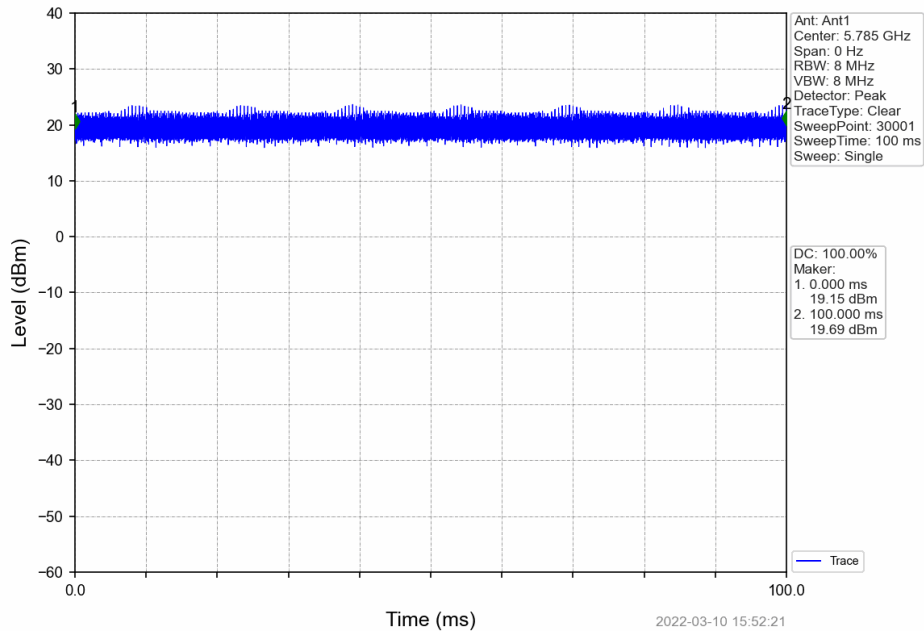
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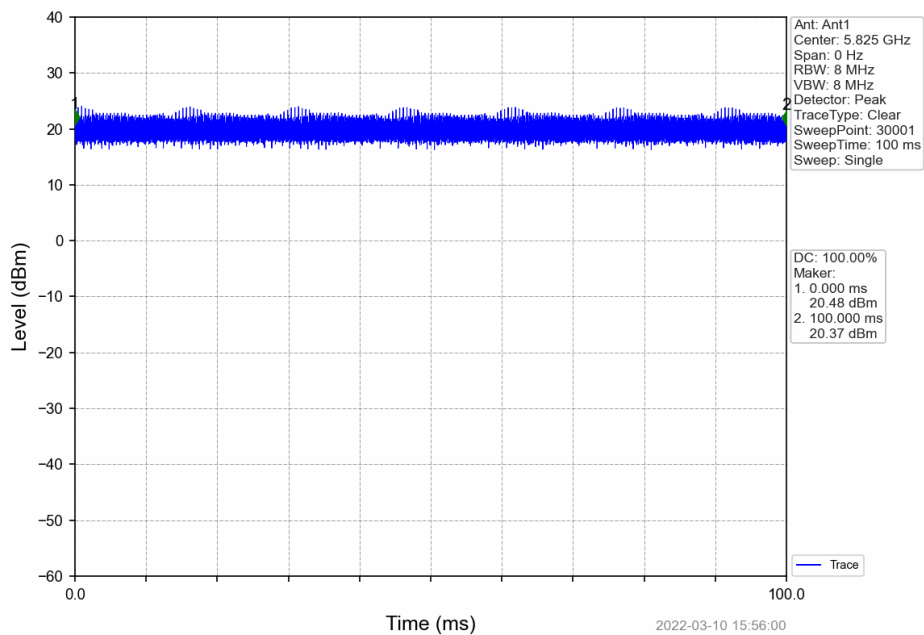
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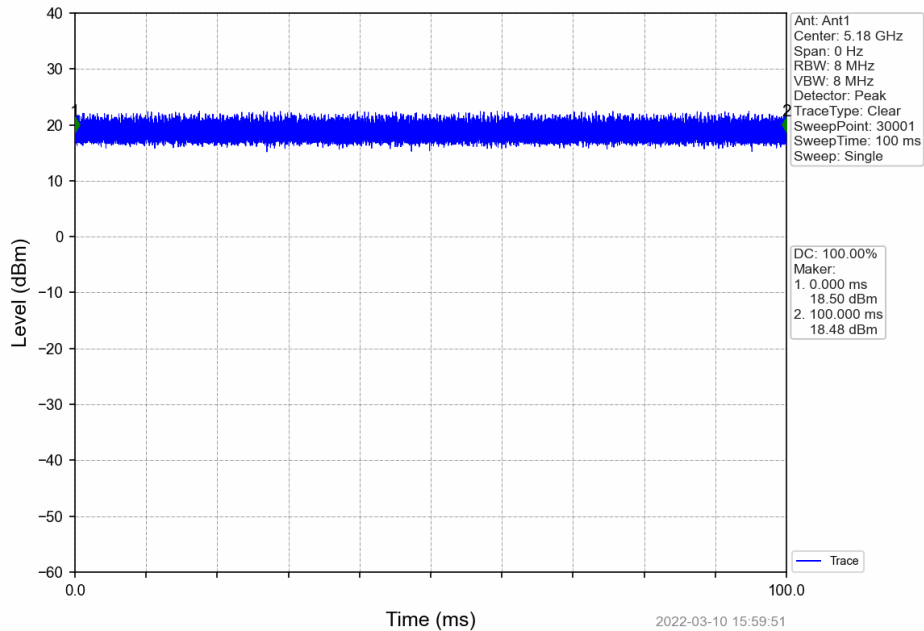
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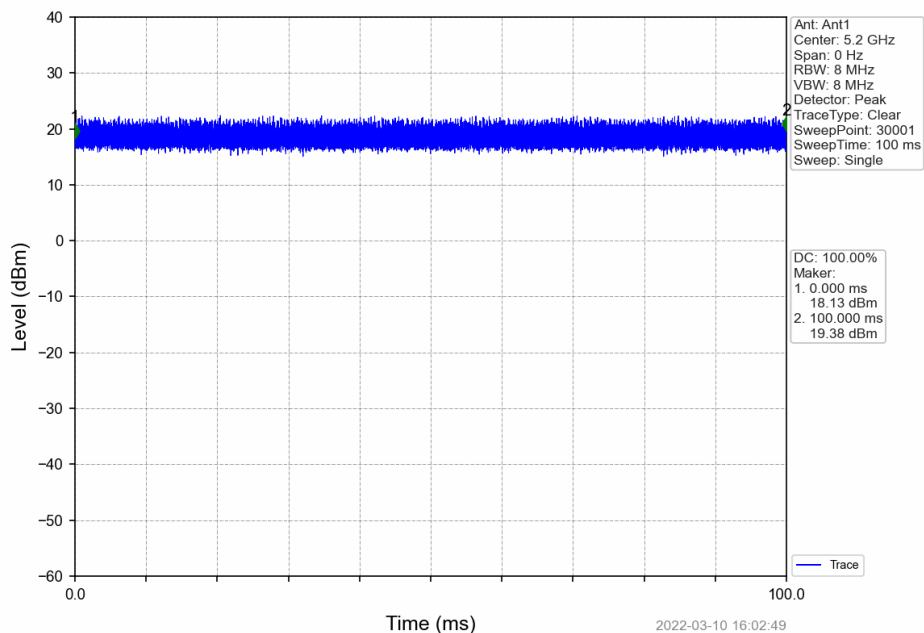
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



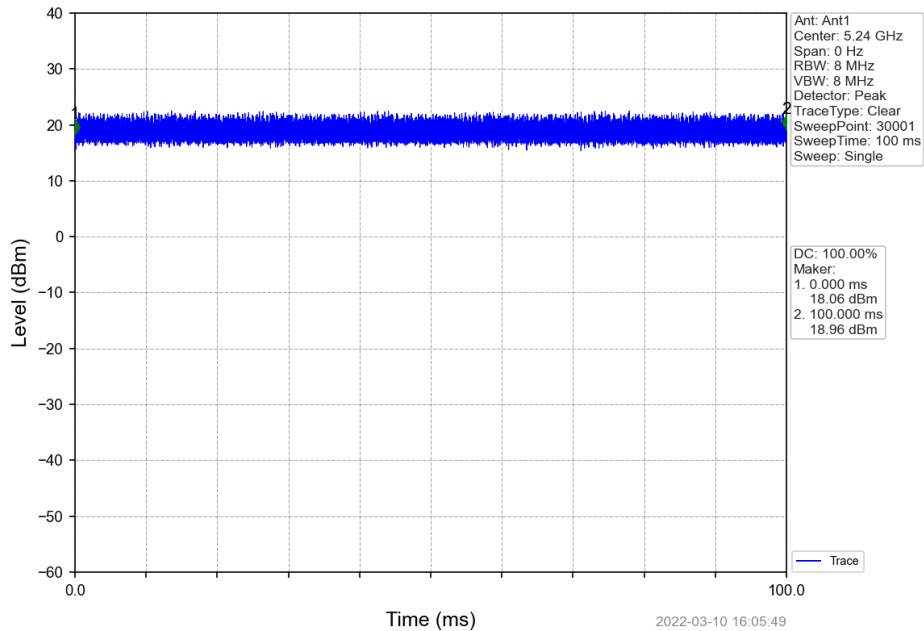
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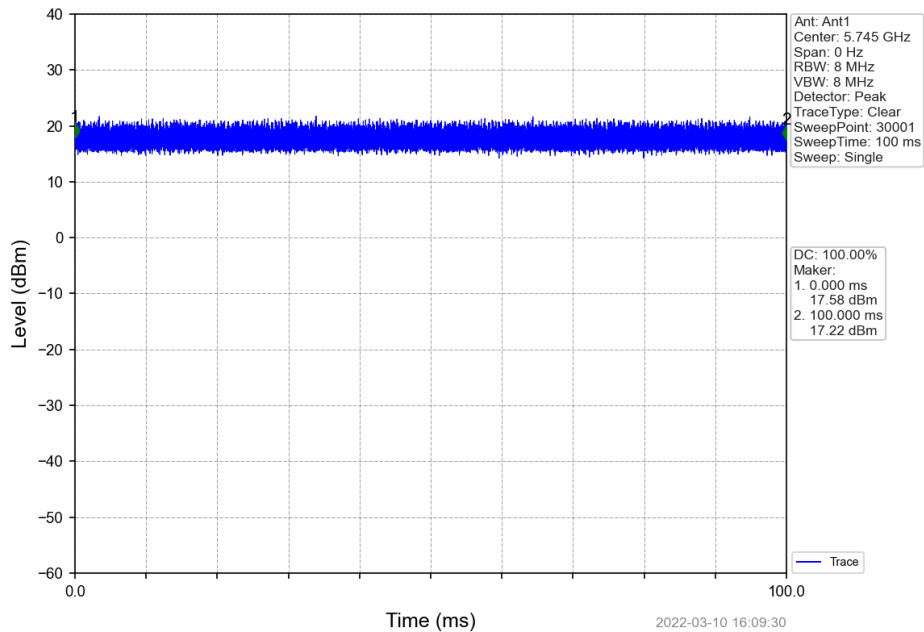
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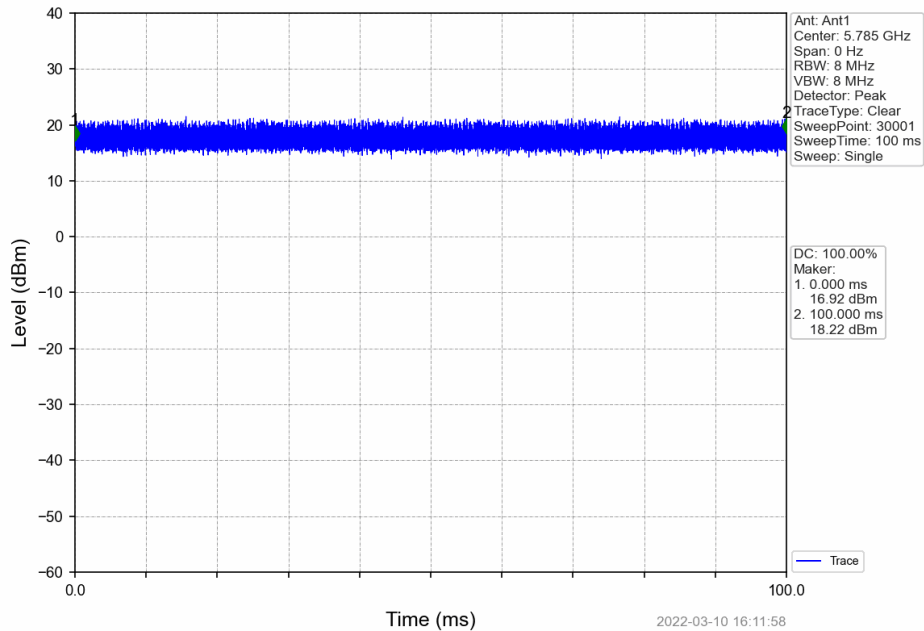
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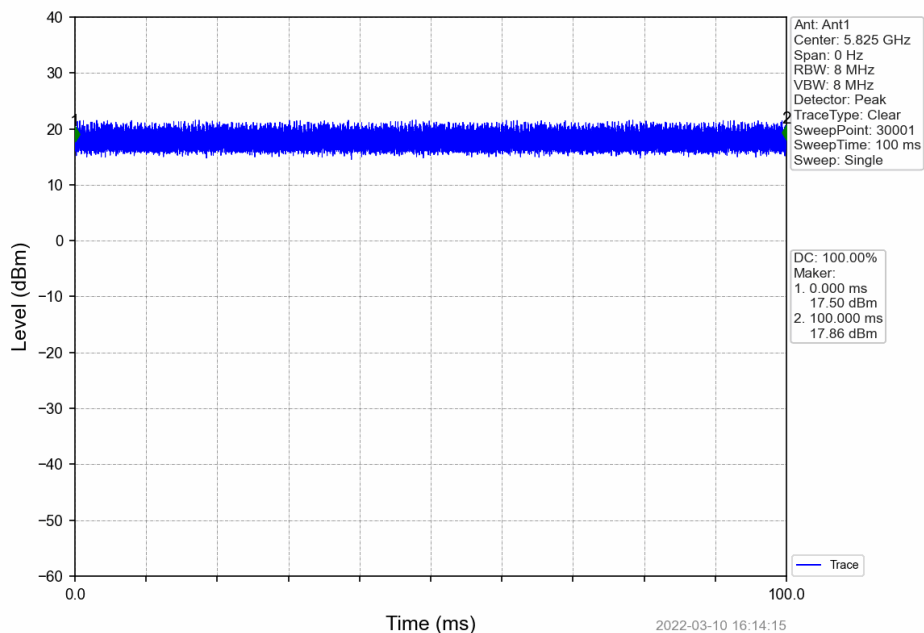
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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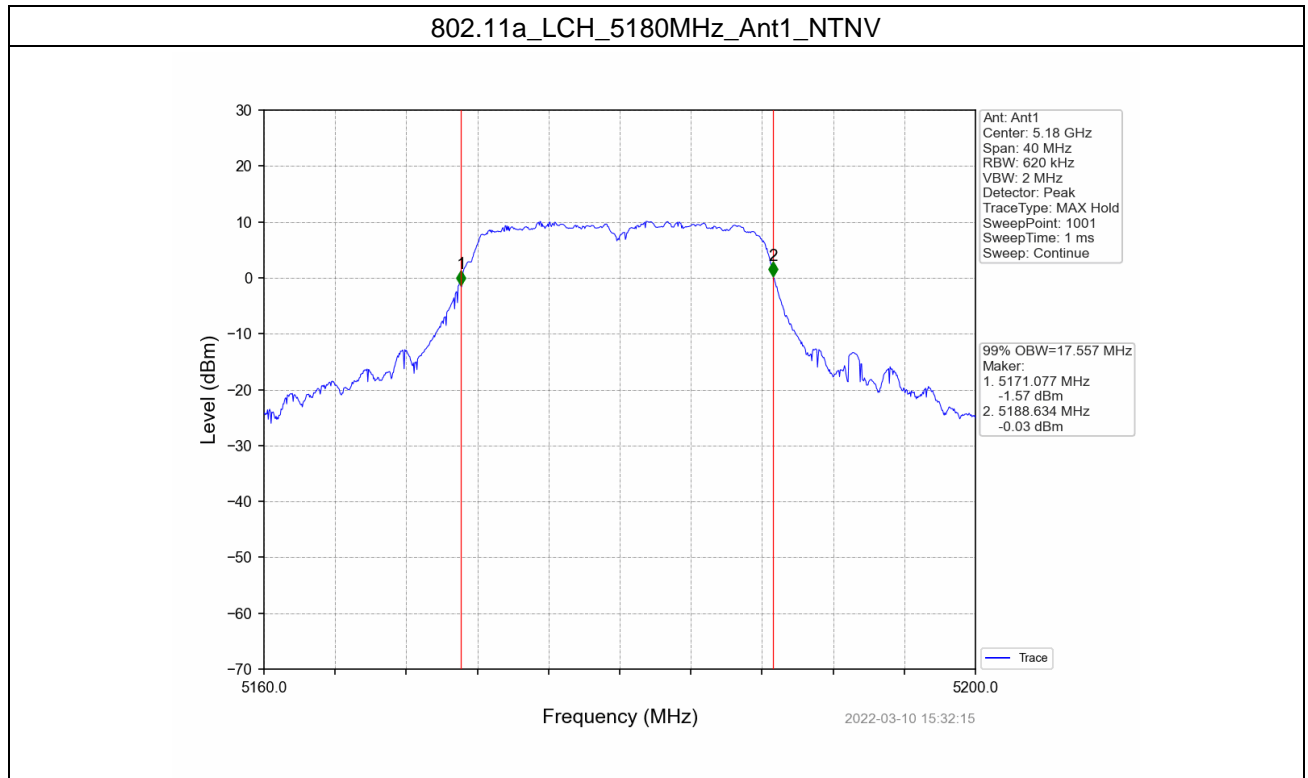
2. Bandwidth

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	17.557	Pass
		5200	1	17.818	Pass
		5240	1	18.979	Pass
		5745	1	17.700	Pass
		5785	1	17.422	Pass
		5825	1	17.485	Pass
802.11n (HT20)	SISO	5180	1	18.370	Pass
		5200	1	18.451	Pass
		5240	1	18.611	Pass
		5745	1	18.265	Pass
		5785	1	18.246	Pass
		5825	1	18.288	Pass

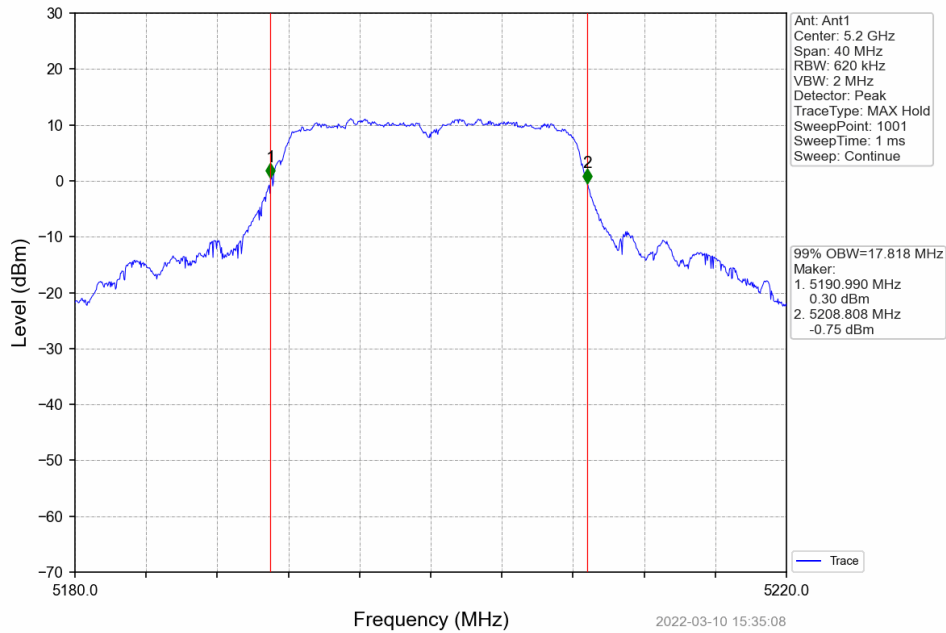
2.1.2 Test Graph



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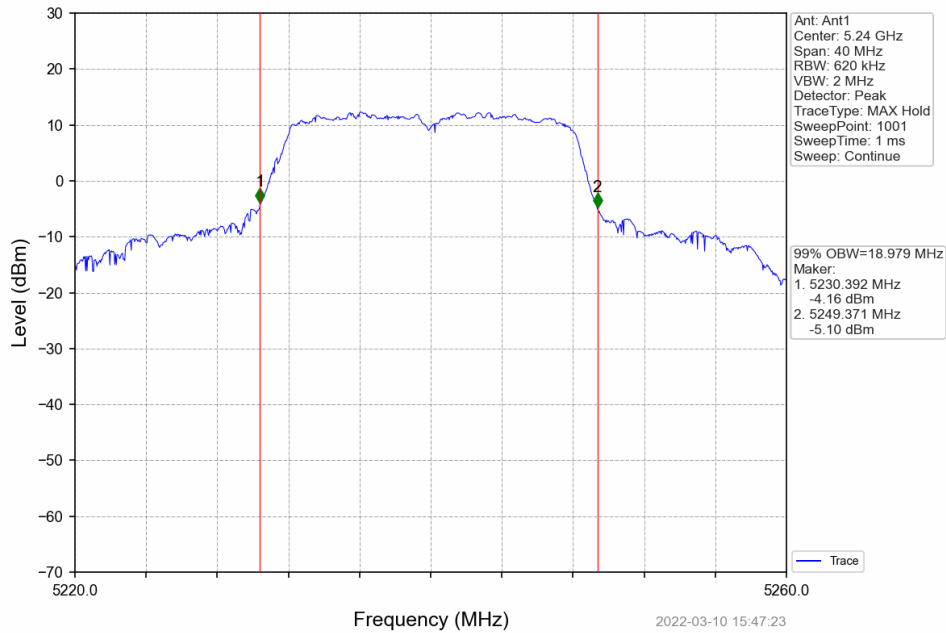
802.11a_MCH_5200MHz_Ant1_NTNV



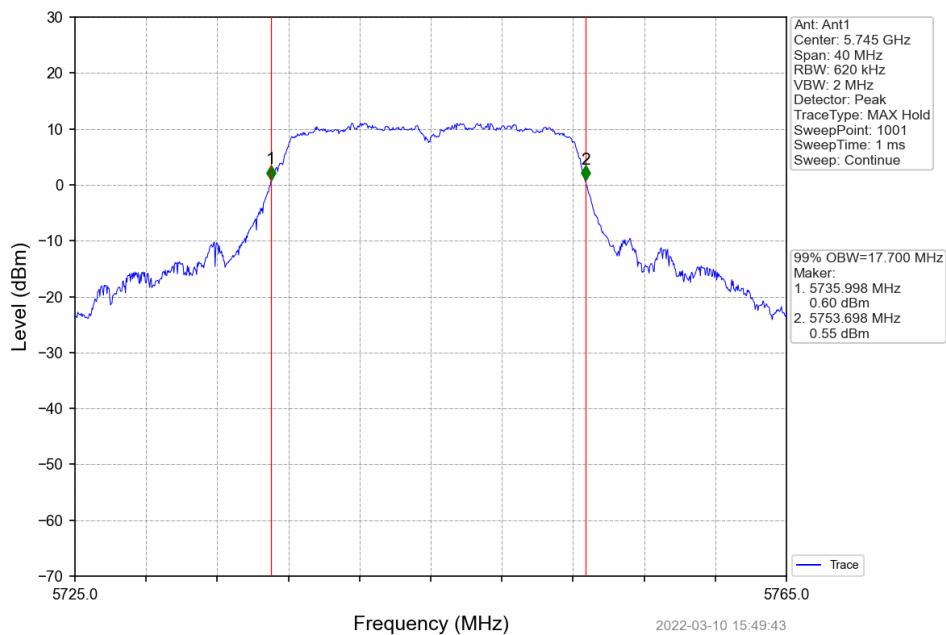
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802.11a_HCH_5240MHz_Ant1_NTNV



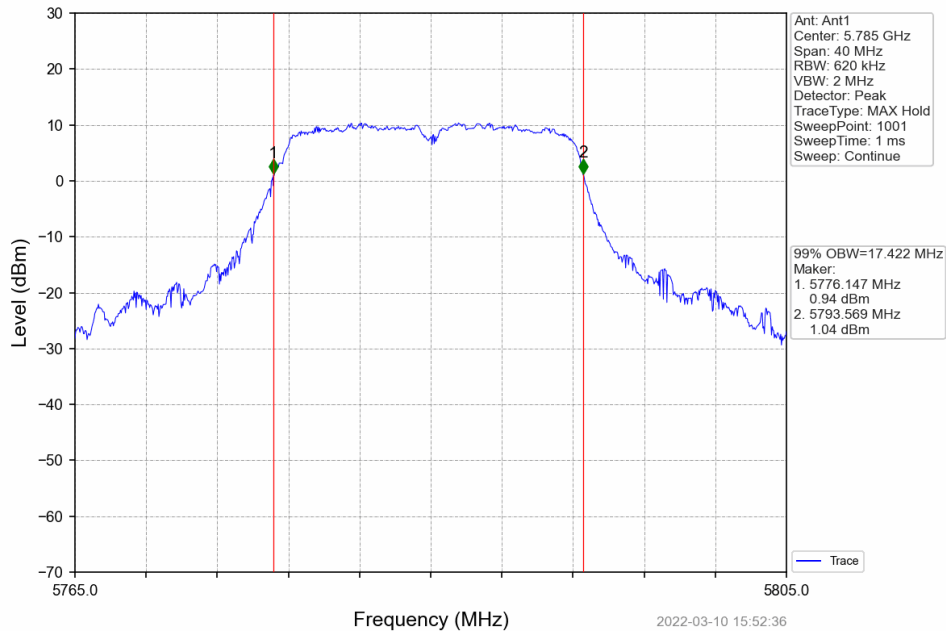
802.11a_LCH_5745MHz_Ant1_NTNV



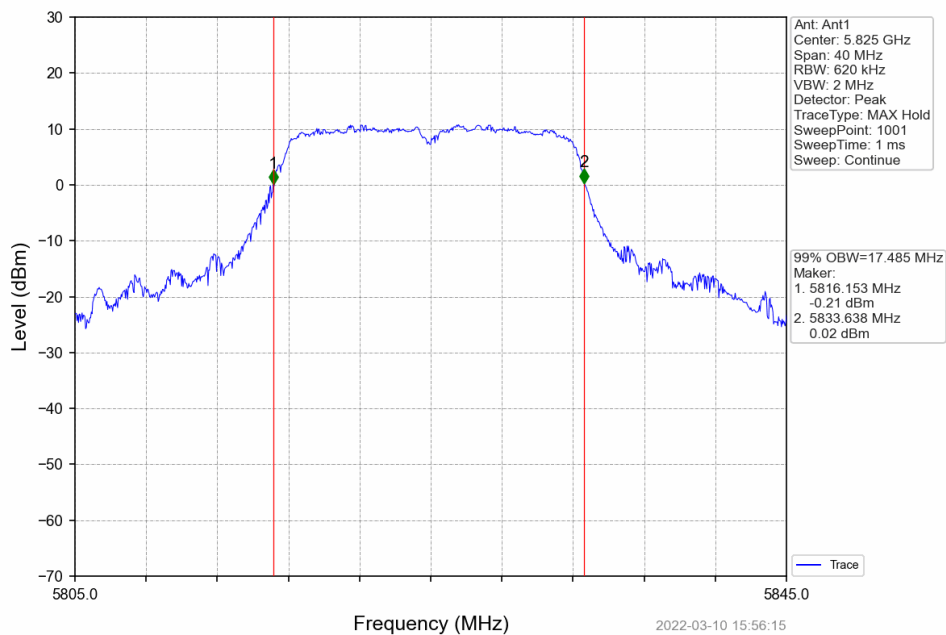
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802.11a_MCH_5785MHz_Ant1_NTNV



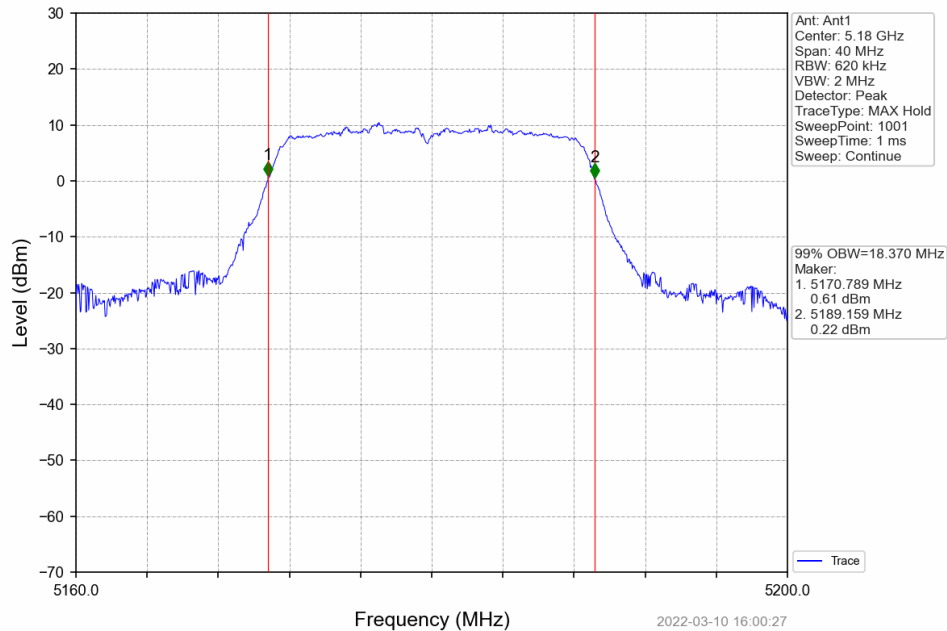
802.11a_HCH_5825MHz_Ant1_NTNV



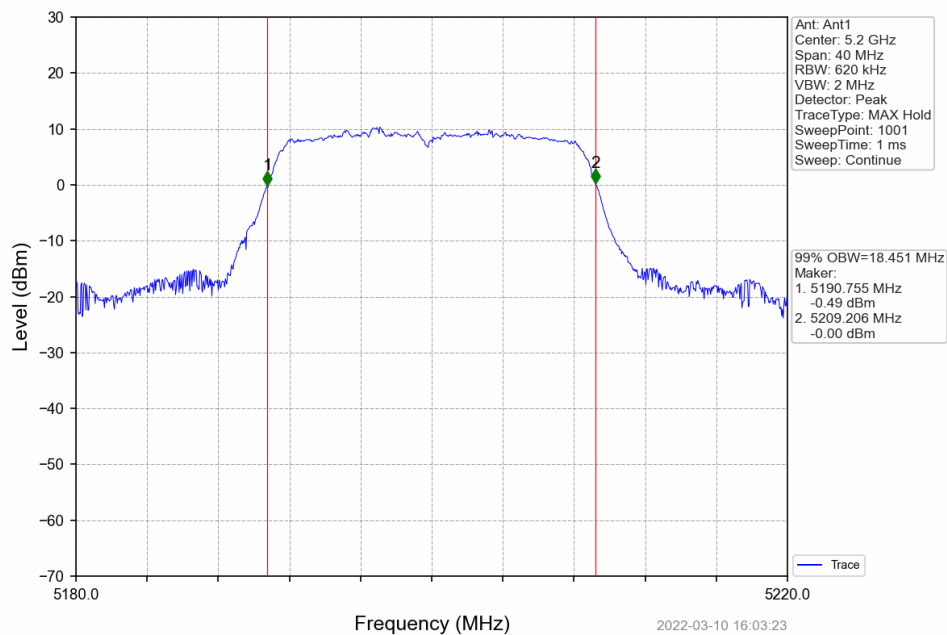
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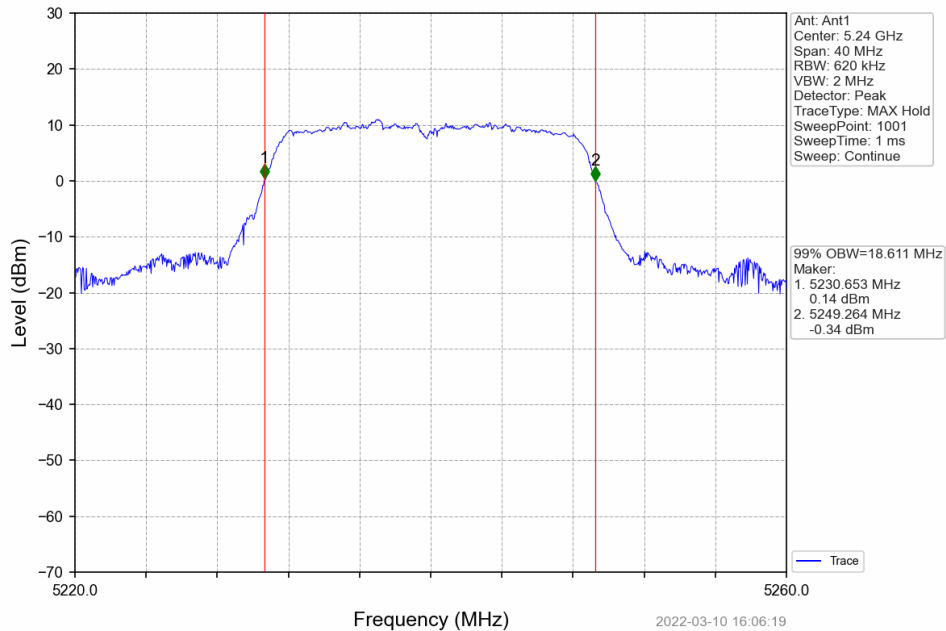
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



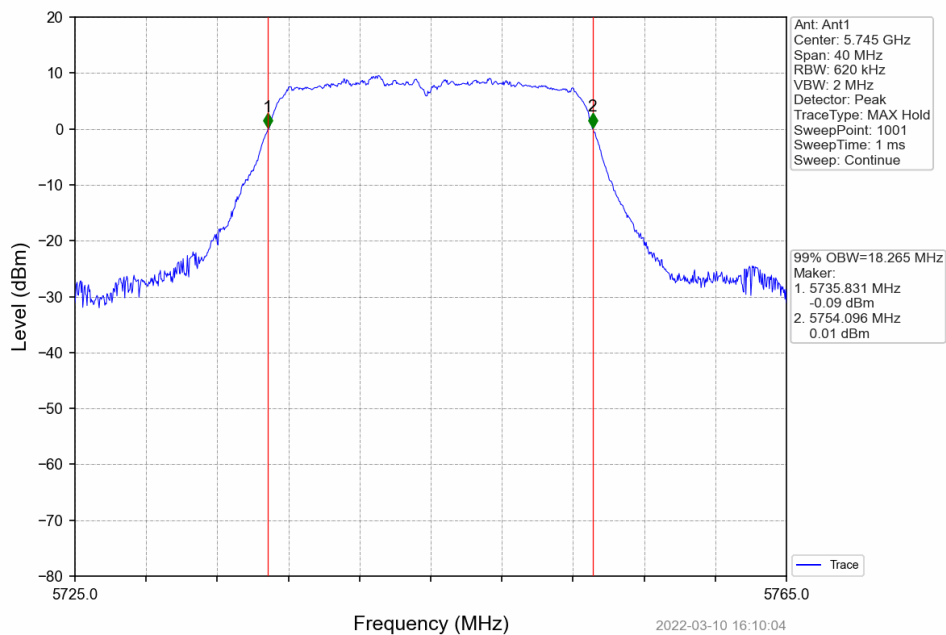
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



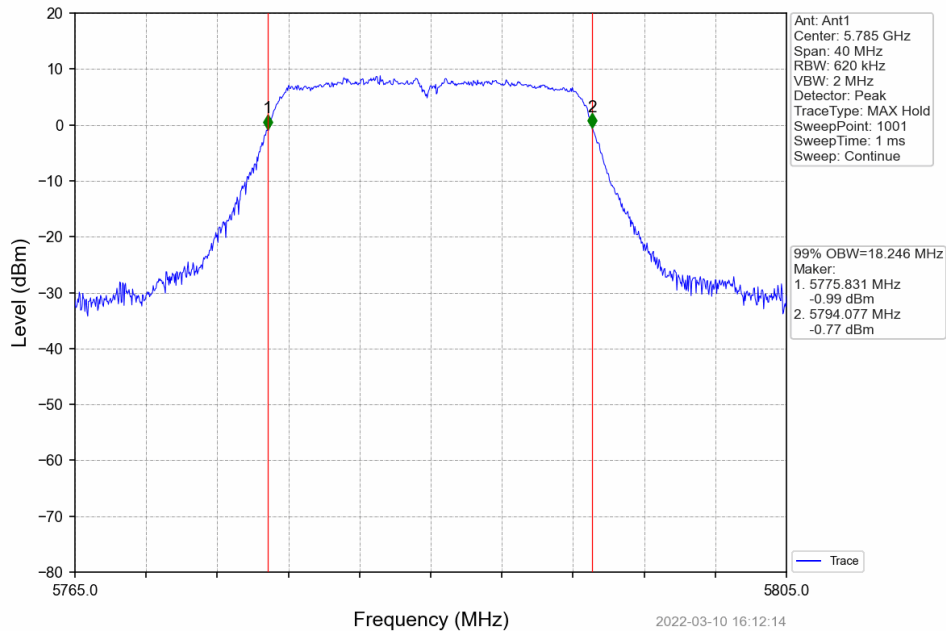
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



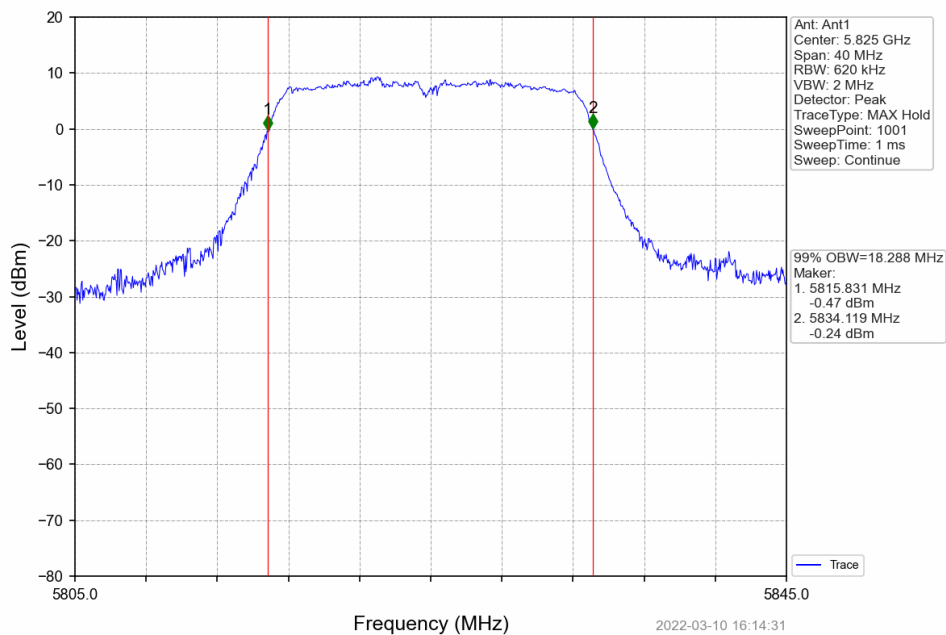
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



2.2 6dB BW

2.2.1 Test Result

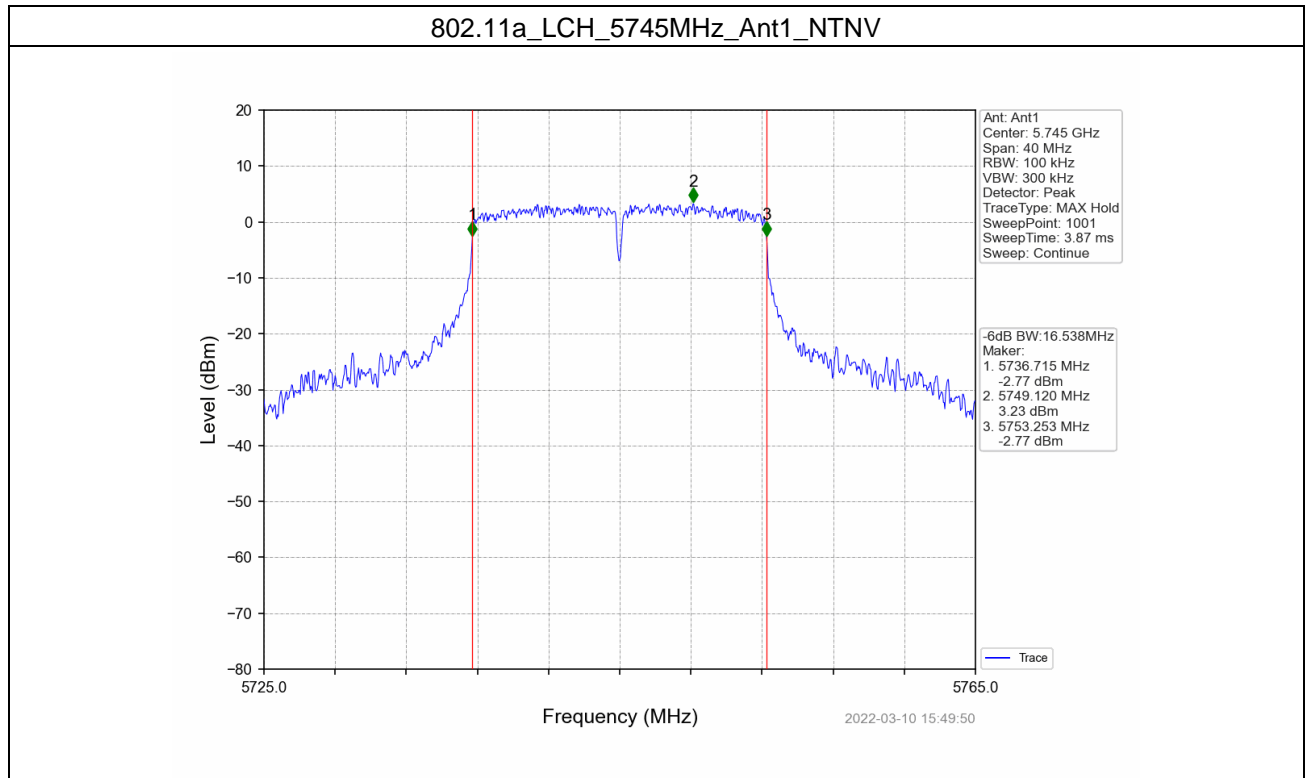
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.538	≥ 0.5	Pass
		5785	1	16.504	≥ 0.5	Pass
		5825	1	16.496	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.660	≥ 0.5	Pass
		5785	1	17.721	≥ 0.5	Pass
		5825	1	17.663	≥ 0.5	Pass



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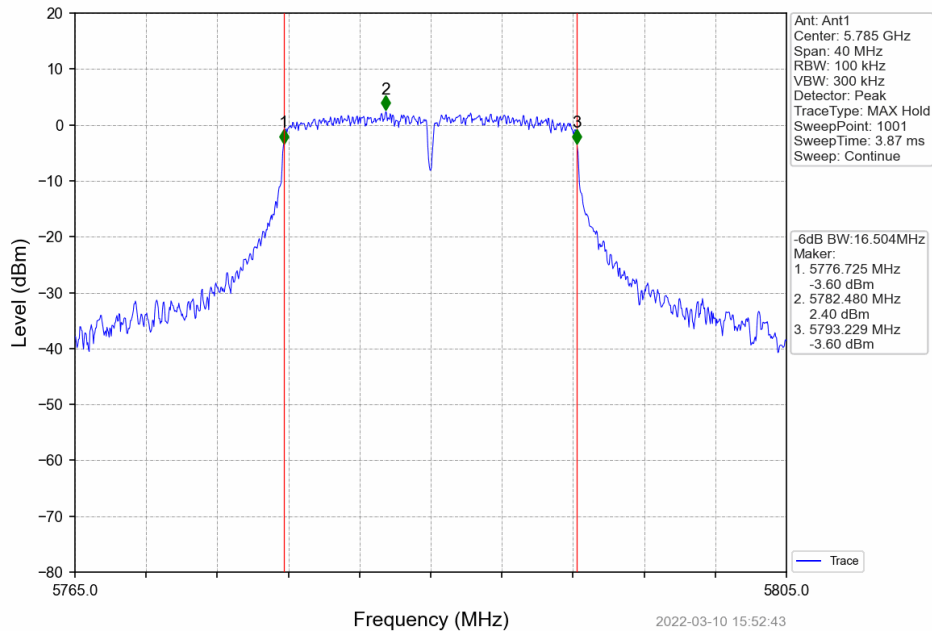
2.2.2 Test Graph



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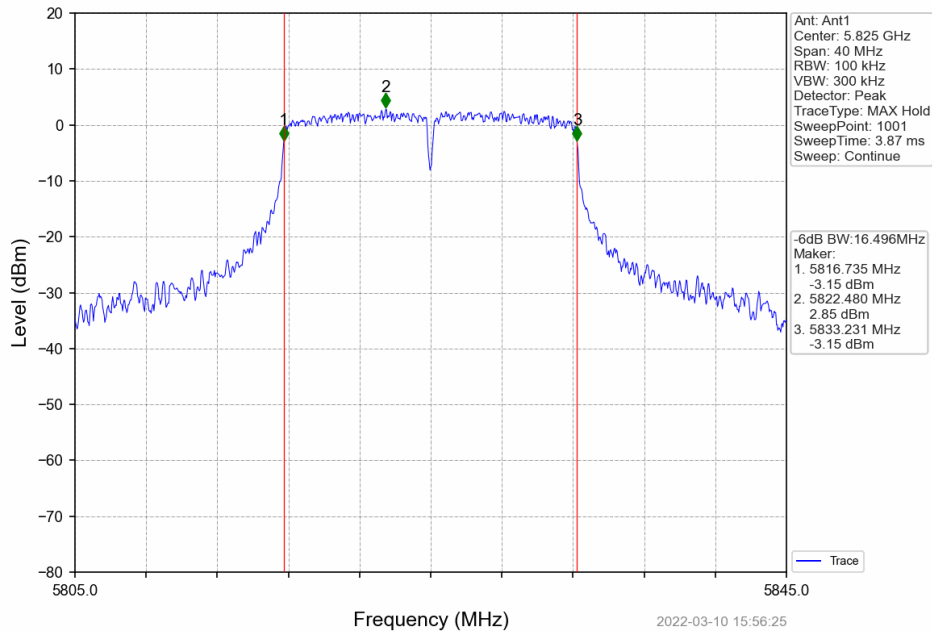
802.11a_MCH_5785MHz_Ant1_NTNV



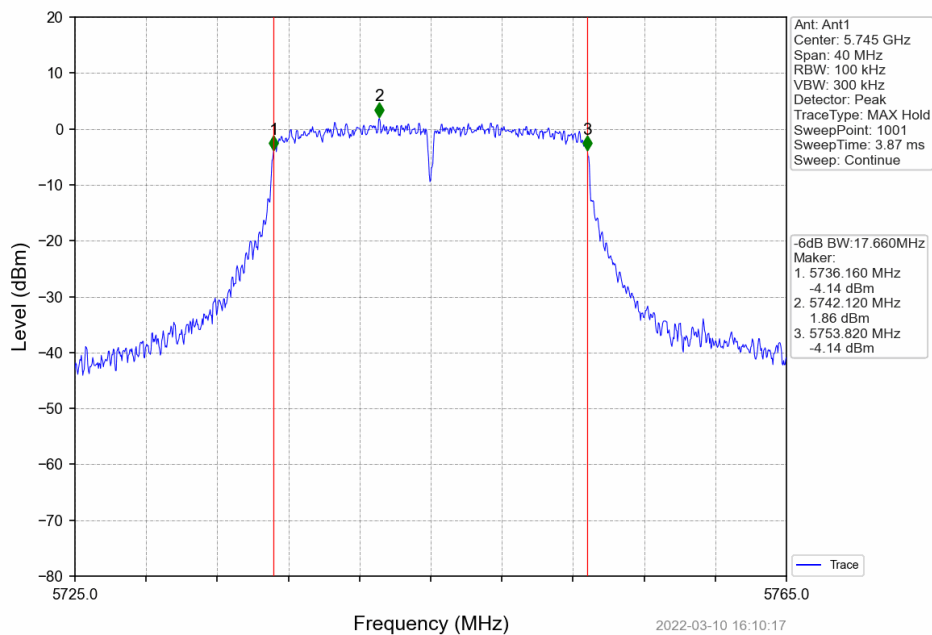
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802.11a_HCH_5825MHz_Ant1_NTNV



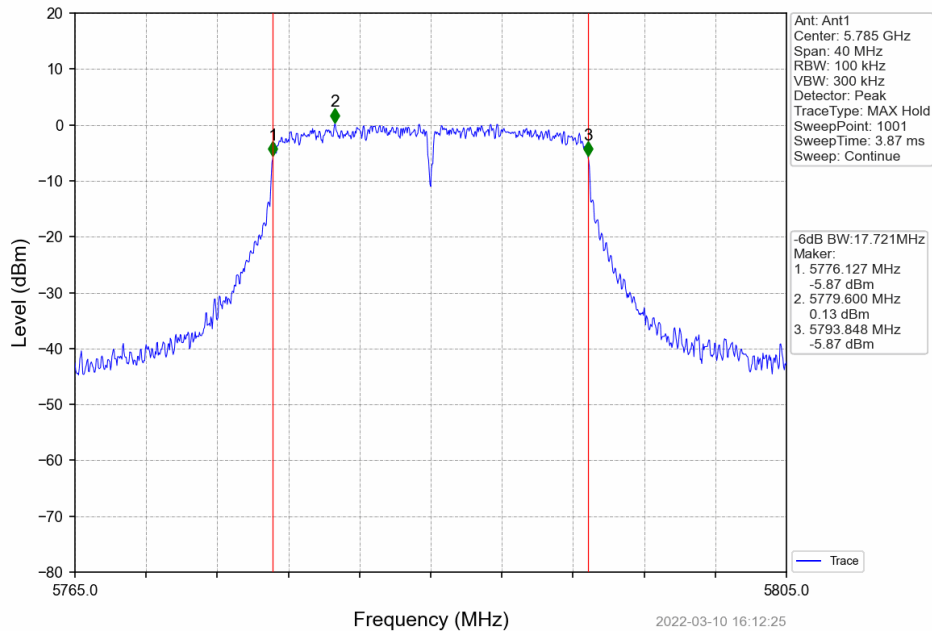
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



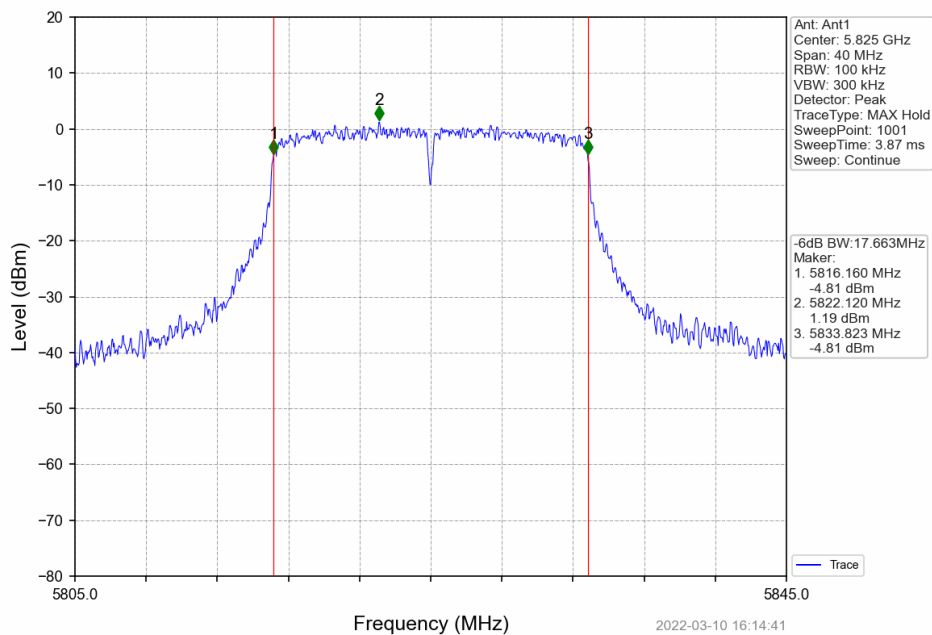
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

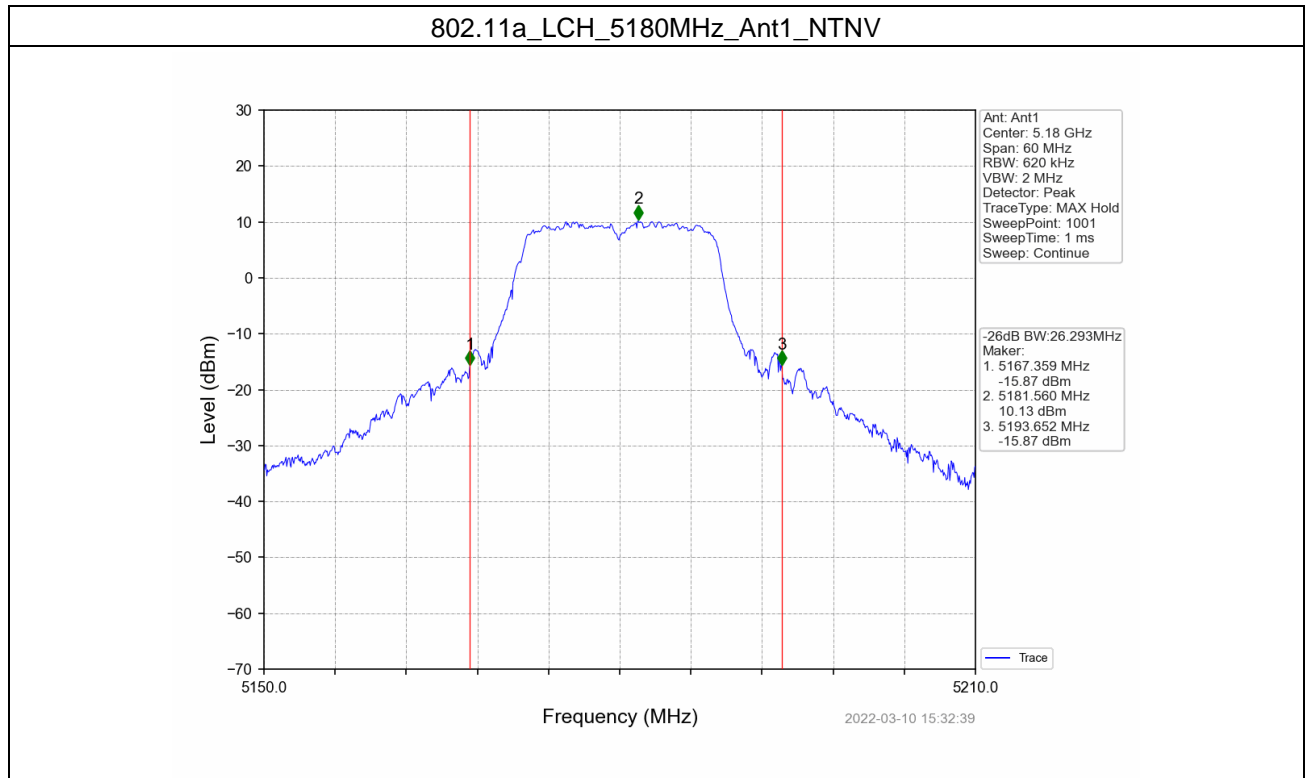
Mode	TX Type	Frequency (MHz)	Ant	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	26.293	Pass
		5200	1	33.342	Pass
		5240	1	37.953	Pass
802.11n (HT20)	SISO	5180	1	22.748	Pass
		5200	1	26.595	Pass
		5240	1	34.688	Pass



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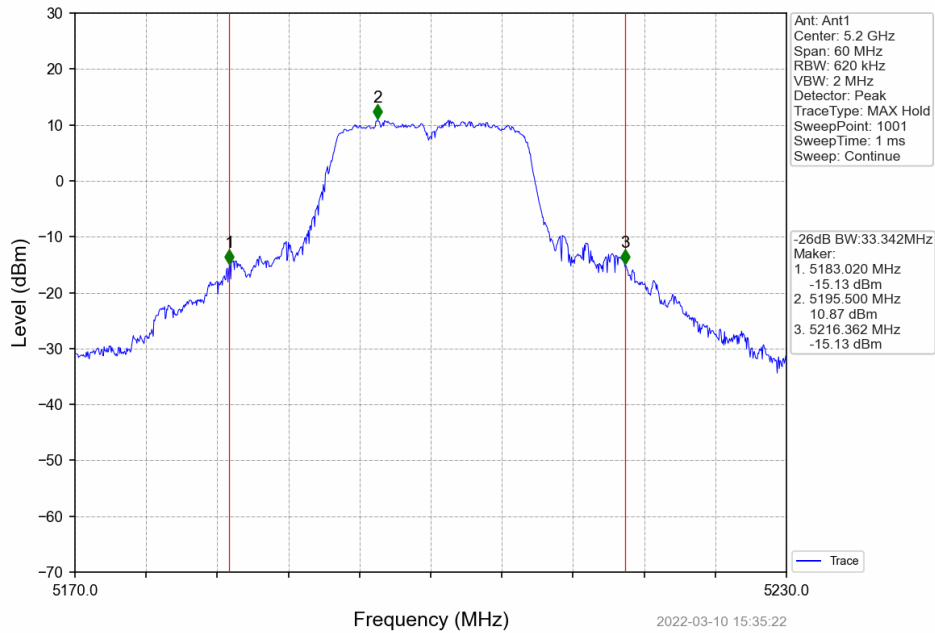
2.3.2 Test Graph



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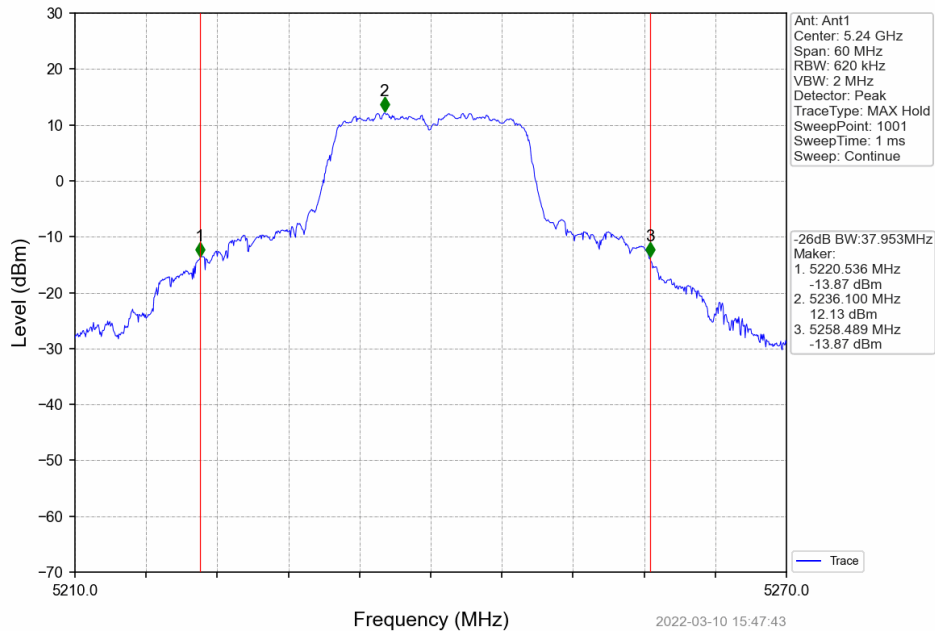
802.11a_MCH_5200MHz_Ant1_NTNV



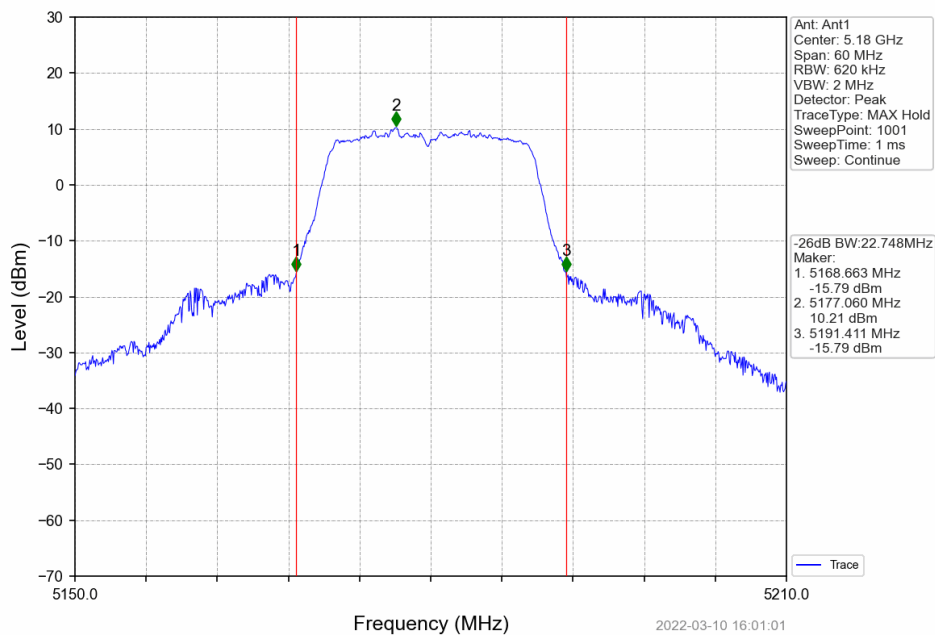
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802.11a_HCH_5240MHz_Ant1_NTNV



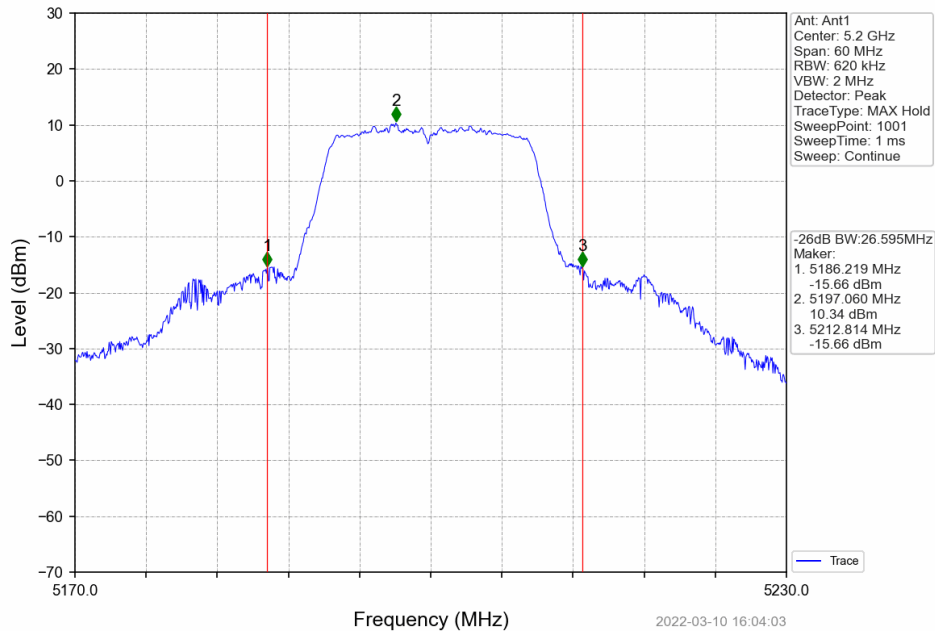
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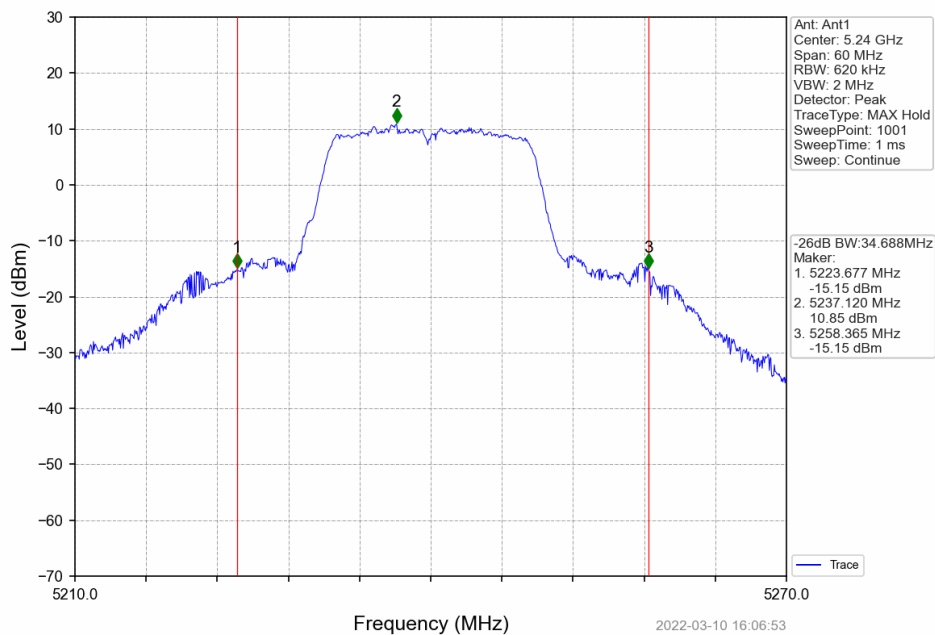
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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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	15.85	≤ 23.98	Pass
		5200	16.06	≤ 23.98	Pass
		5240	16.11	≤ 23.98	Pass
		5745	17.38	≤ 30	Pass
		5785	16.25	≤ 30	Pass
		5825	16.65	≤ 30	Pass
802.11n (HT20)	SISO	5180	15.90	≤ 23.98	Pass
		5200	16.01	≤ 23.98	Pass
		5240	15.96	≤ 23.98	Pass
		5745	15.26	≤ 30	Pass
		5785	14.32	≤ 30	Pass
		5825	14.79	≤ 30	Pass

Note1: Antenna Gain: Ant1: 3.15dBi;



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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	4.63	≤ 11	Pass
		5200	4.82	≤ 11	Pass
		5240	4.83	≤ 11	Pass
802.11n (HT20)	SISO	5180	4.70	≤ 11	Pass
		5200	4.66	≤ 11	Pass
		5240	4.53	≤ 11	Pass

Note1: Antenna Gain: Ant1: 3.15dBi;

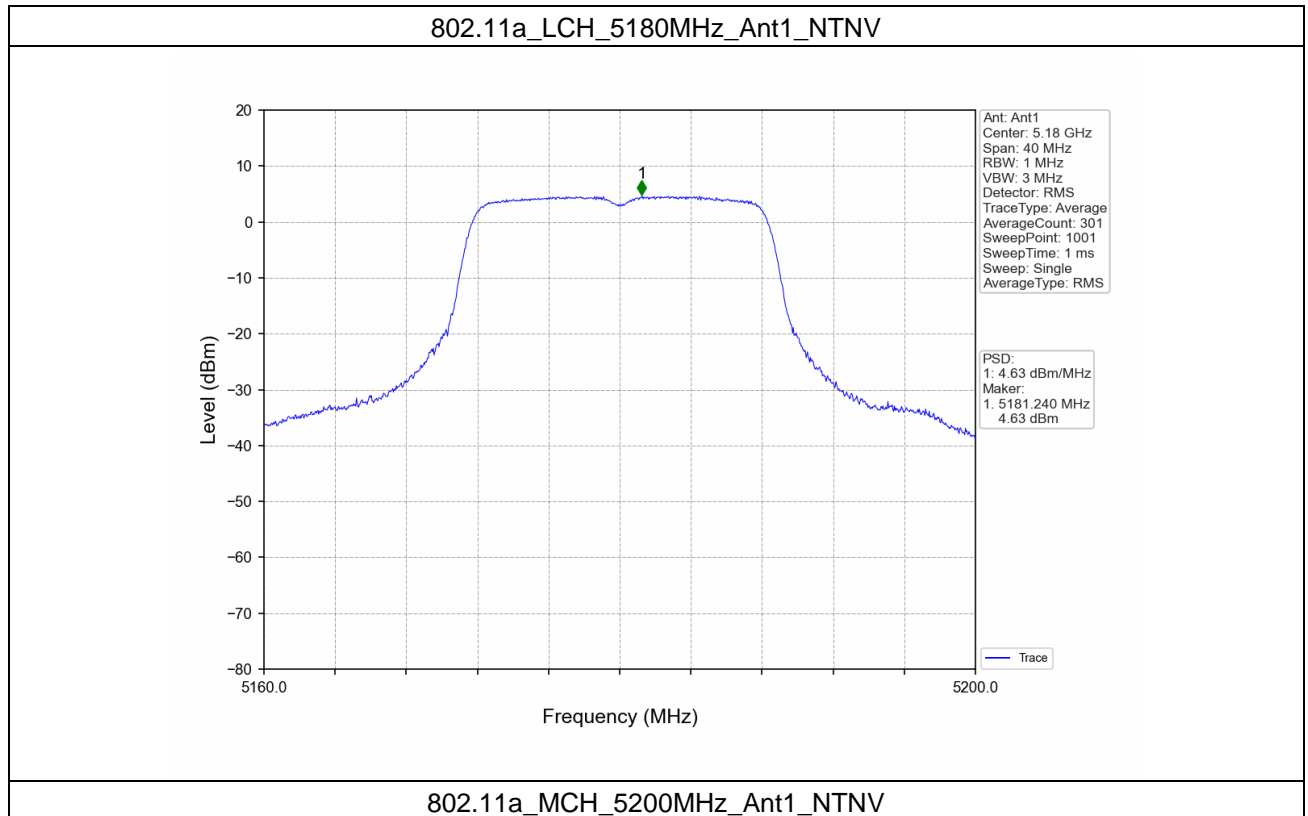


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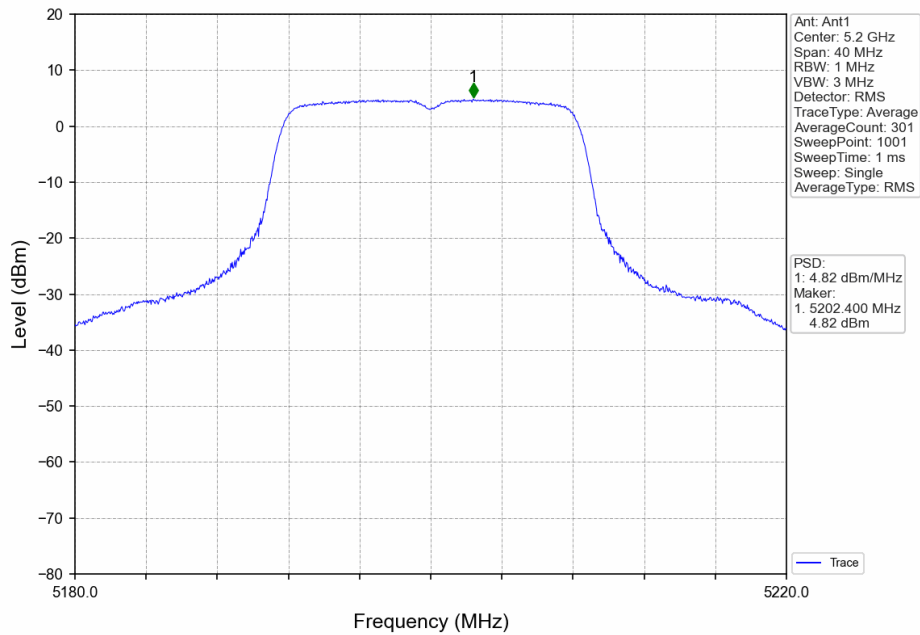
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4.1.2 Test Graph



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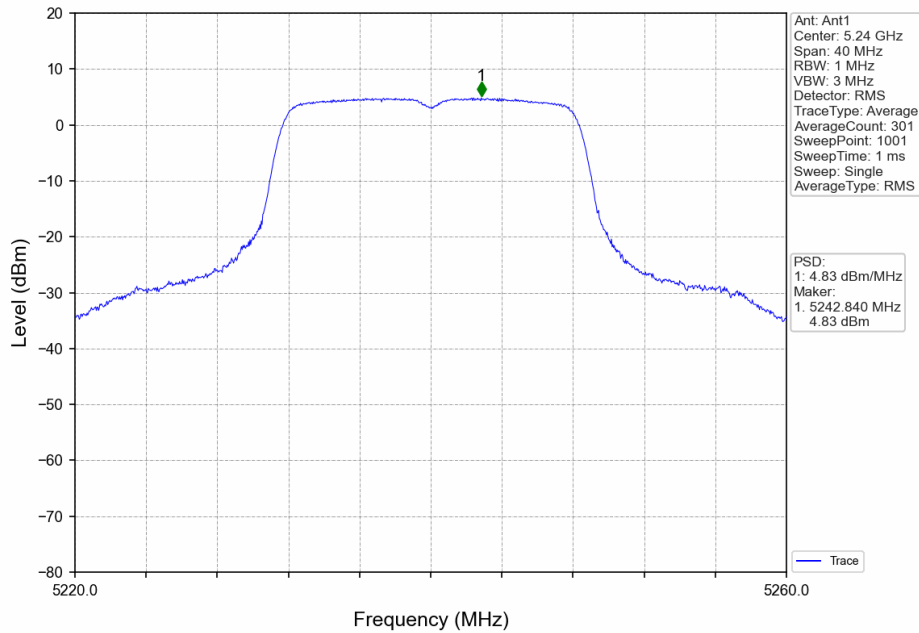
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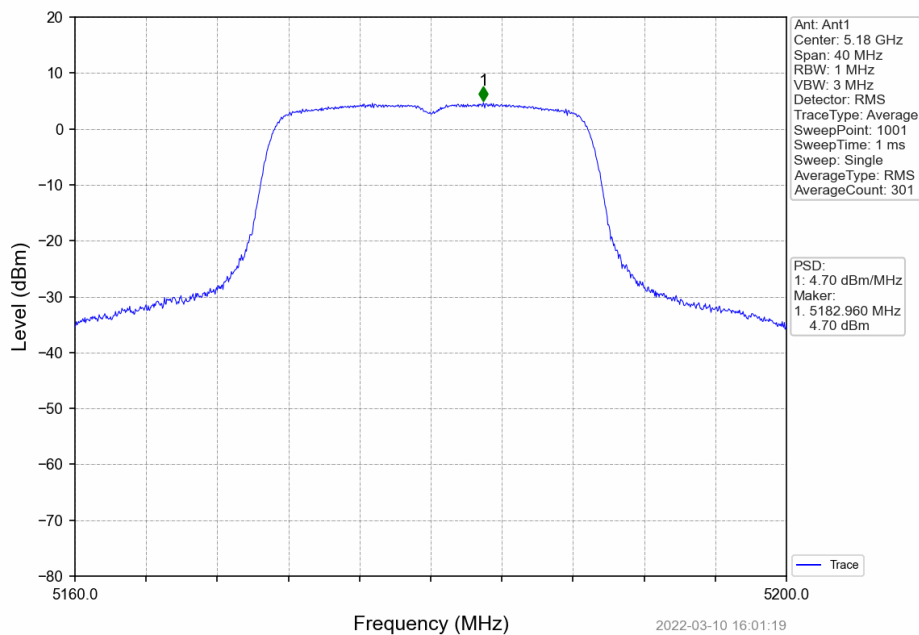
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



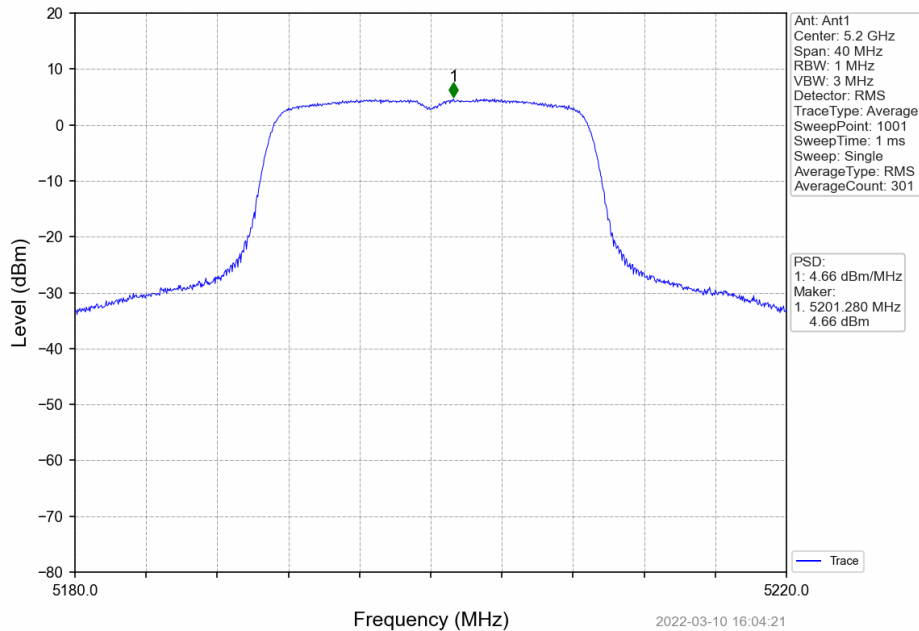
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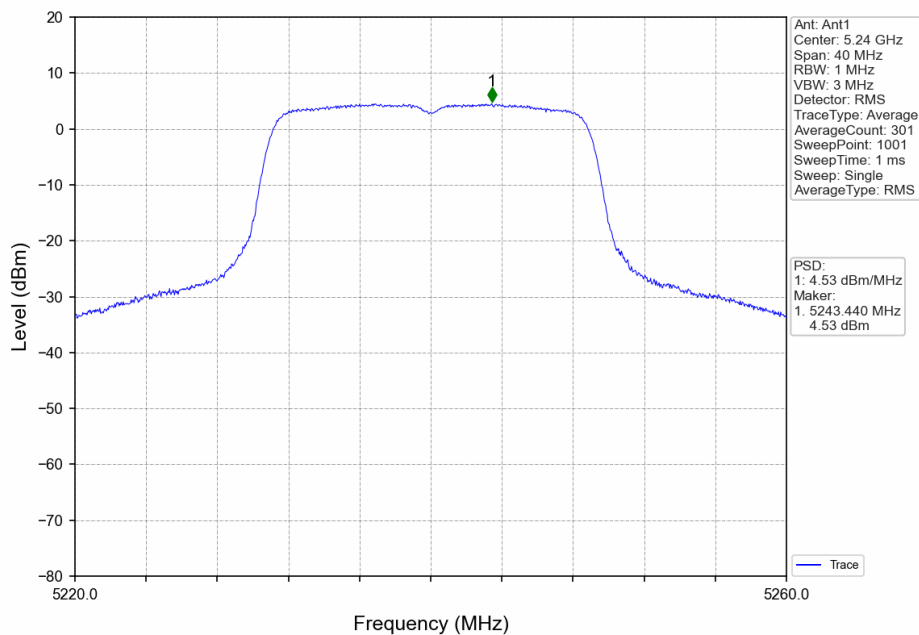
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5745	3.20	≤ 30	Pass
		5785	2.14	≤ 30	Pass
		5825	2.52	≤ 30	Pass
802.11n (HT20)	SISO	5745	1.13	≤ 30	Pass
		5785	0.07	≤ 30	Pass
		5825	0.48	≤ 30	Pass

Note1: Antenna Gain: Ant1: 3.15dBi;

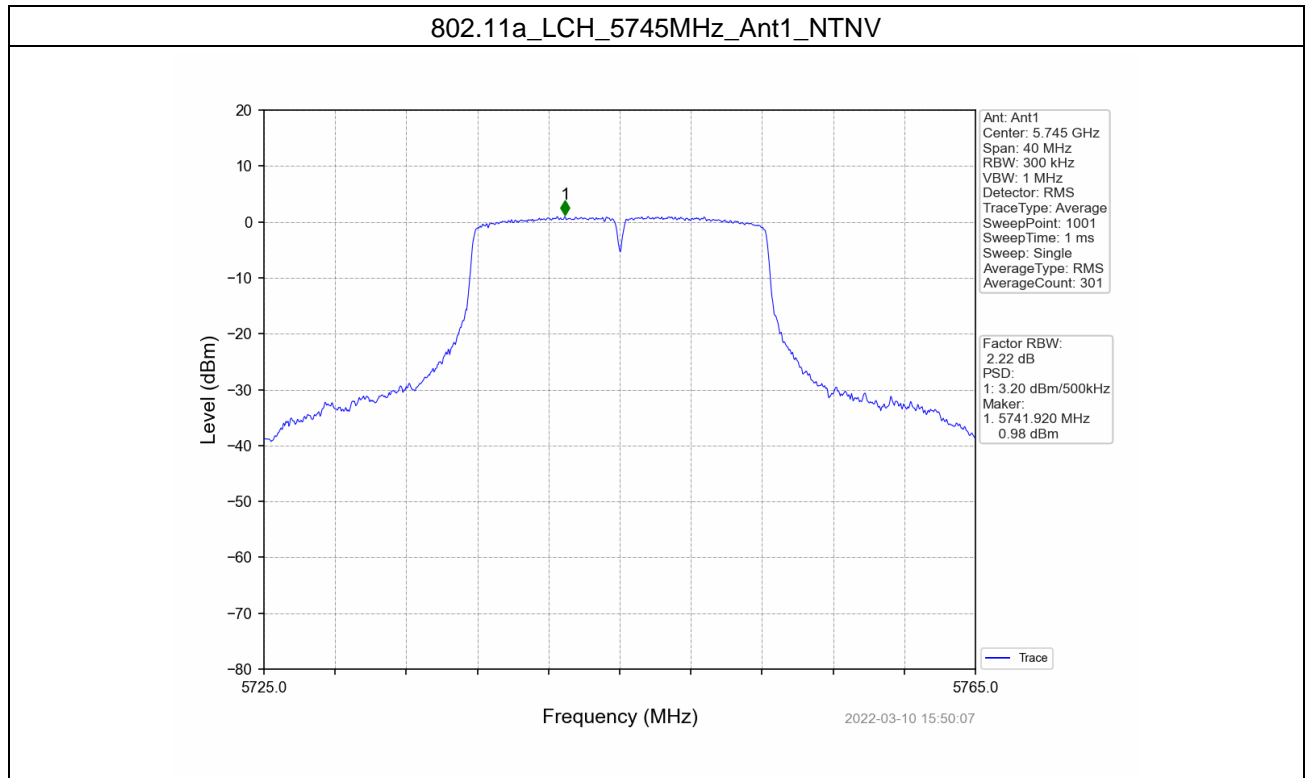


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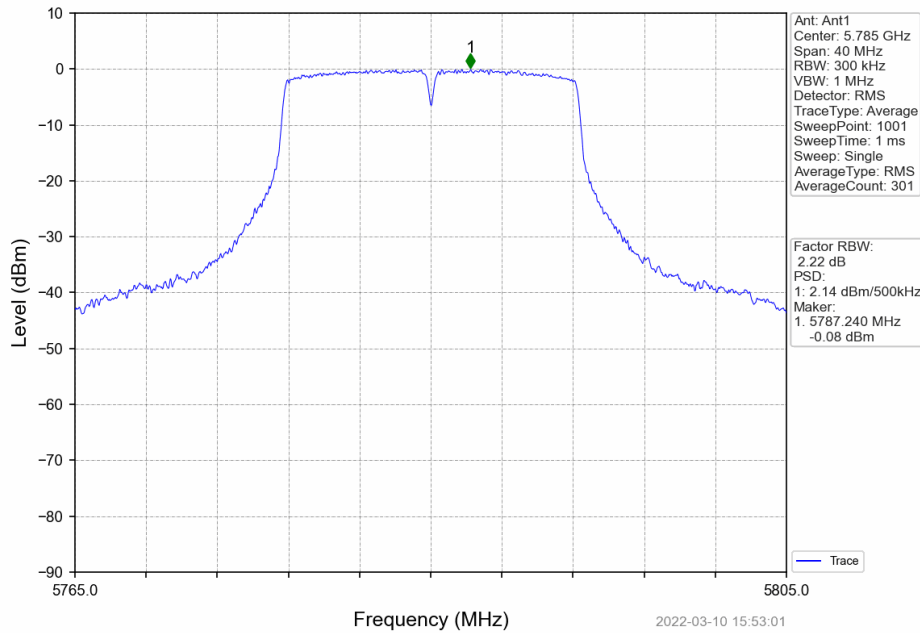
4.2.2 Test Graph



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802.11a_MCH_5785MHz_Ant1_NTNV

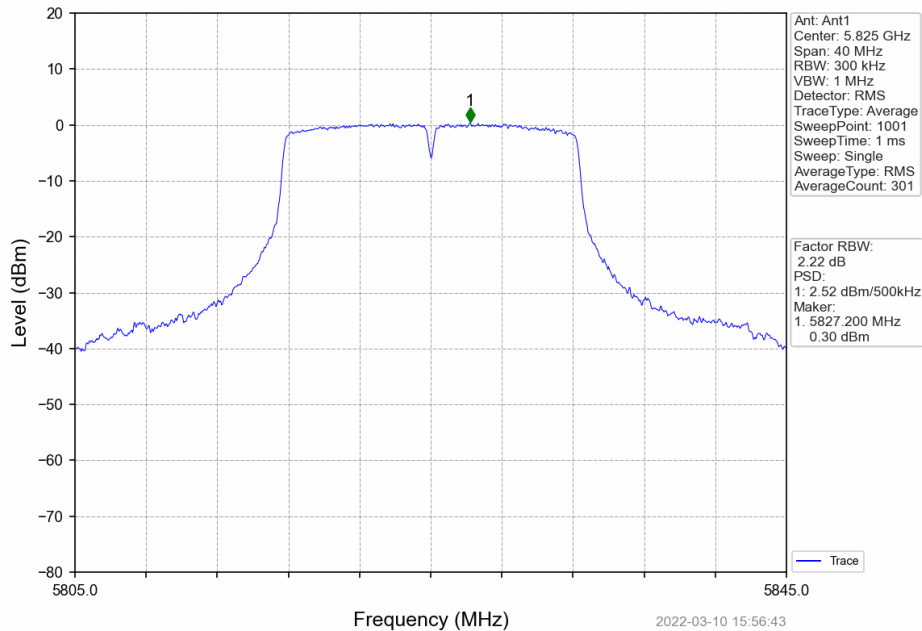


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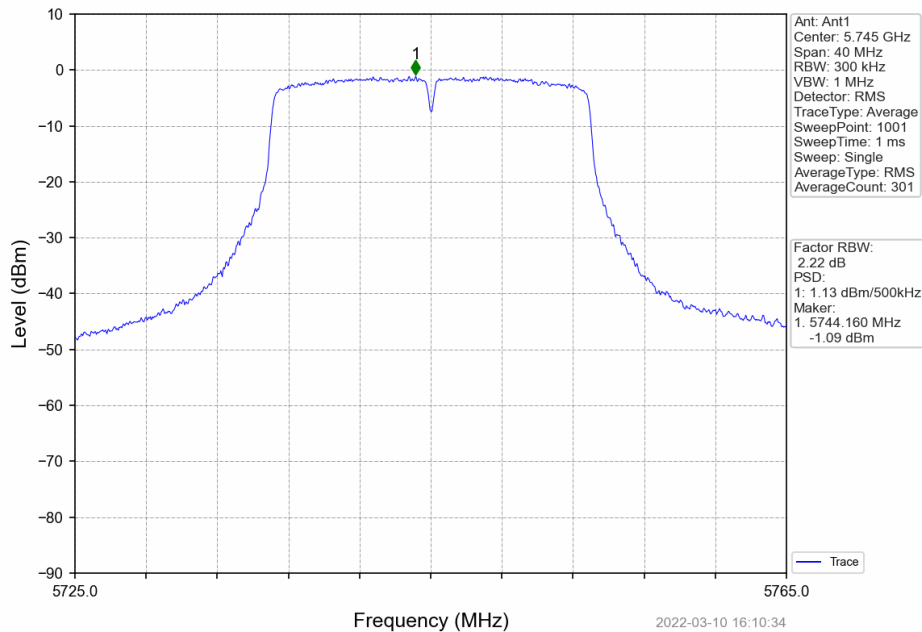
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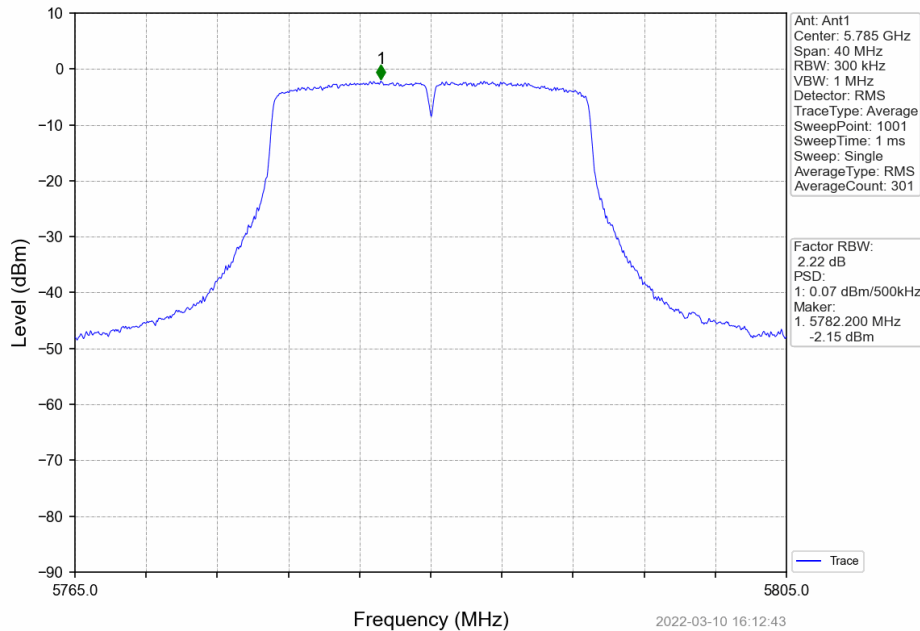
802.11a_HCH_5825MHz_Ant1_NTNV



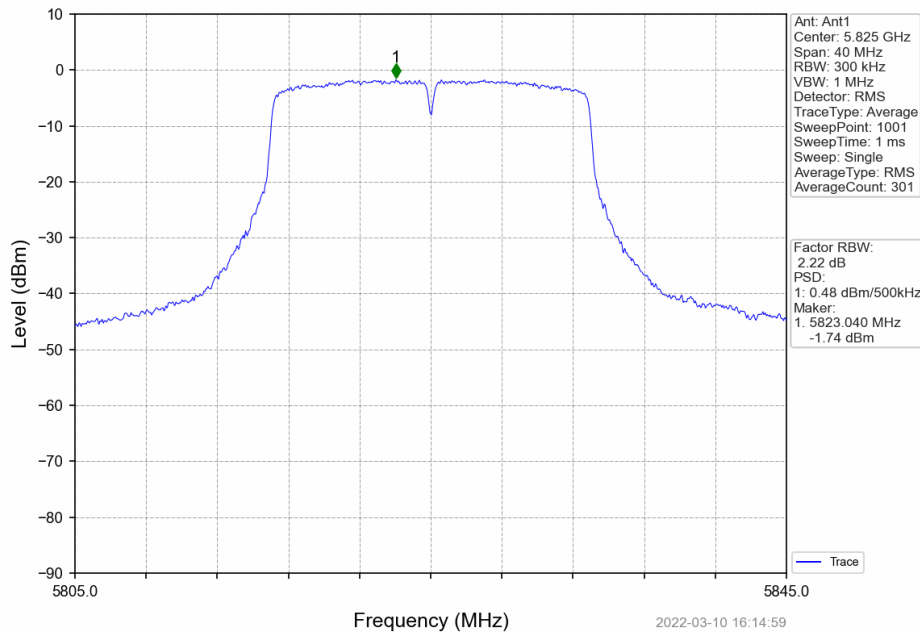
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5179.960	5150 to 5250	Pass
				120	5179.960	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5179.960	5150 to 5250	Pass
			-20	120	5179.960	5150 to 5250	Pass
			-10	120	5179.980	5150 to 5250	Pass
			0	120	5179.960	5150 to 5250	Pass
			10	120	5179.960	5150 to 5250	Pass
			30	120	5179.960	5150 to 5250	Pass
			40	120	5179.960	5150 to 5250	Pass
			50	120	5180.000	5150 to 5250	Pass
		5200	20	102	5199.960	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				138	5199.920	5150 to 5250	Pass
			-30	120	5199.940	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5200.000	5150 to 5250	Pass
			0	120	5199.960	5150 to 5250	Pass
			10	120	5199.940	5150 to 5250	Pass
			30	120	5199.940	5150 to 5250	Pass
			40	120	5200.040	5150 to 5250	Pass
			50	120	5200.000	5150 to 5250	Pass
		5240	20	102	5239.980	5150 to 5250	Pass
				120	5239.960	5150 to 5250	Pass
				138	5239.980	5150 to 5250	Pass
			-30	120	5239.960	5150 to 5250	Pass
			-20	120	5240.000	5150 to 5250	Pass
			-10	120	5240.000	5150 to 5250	Pass
			0	120	5239.960	5150 to 5250	Pass
			10	120	5240.000	5150 to 5250	Pass



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			30	120	5239.960	5150 to 5250	Pass
			40	120	5239.960	5150 to 5250	Pass
			50	120	5239.960	5150 to 5250	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5745.000	5725 to 5850	Pass
				138	5744.960	5725 to 5850	Pass
			-30	120	5745.020	5725 to 5850	Pass
			-20	120	5744.980	5725 to 5850	Pass
			-10	120	5744.980	5725 to 5850	Pass
			0	120	5744.980	5725 to 5850	Pass
			10	120	5744.960	5725 to 5850	Pass
			30	120	5744.960	5725 to 5850	Pass
			40	120	5744.940	5725 to 5850	Pass
			50	120	5744.960	5725 to 5850	Pass
		5785	20	102	5785.000	5725 to 5850	Pass
				120	5785.000	5725 to 5850	Pass
				138	5784.940	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
			-20	120	5784.960	5725 to 5850	Pass
			-10	120	5784.940	5725 to 5850	Pass
			0	120	5784.920	5725 to 5850	Pass
			10	120	5784.960	5725 to 5850	Pass
			30	120	5785.020	5725 to 5850	Pass
			40	120	5784.940	5725 to 5850	Pass
		5825	20	102	5824.960	5725 to 5850	Pass
				120	5824.960	5725 to 5850	Pass
				138	5824.980	5725 to 5850	Pass
			-30	120	5824.960	5725 to 5850	Pass
			-20	120	5824.980	5725 to 5850	Pass
			-10	120	5824.940	5725 to 5850	Pass
			0	120	5824.960	5725 to 5850	Pass
			10	120	5824.960	5725 to 5850	Pass
			30	120	5824.960	5725 to 5850	Pass
			40	120	5824.960	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	102	5180.000	5150 to 5250	Pass
				120	5179.980	5150 to 5250	Pass
				138	5180.000	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass



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			-20	120	5180.000	5150 to 5250	Pass
			-10	120	5180.080	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
			10	120	5180.040	5150 to 5250	Pass
			30	120	5180.000	5150 to 5250	Pass
			40	120	5180.020	5150 to 5250	Pass
			50	120	5179.980	5150 to 5250	Pass
		5200	20	102	5199.980	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.040	5150 to 5250	Pass
			-20	120	5199.980	5150 to 5250	Pass
			-10	120	5200.060	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5200.020	5150 to 5250	Pass
			30	120	5200.000	5150 to 5250	Pass
			40	120	5200.000	5150 to 5250	Pass
			50	120	5200.000	5150 to 5250	Pass
		5240	20	102	5239.980	5150 to 5250	Pass
				120	5240.020	5150 to 5250	Pass
				138	5239.980	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
			-20	120	5240.040	5150 to 5250	Pass
			-10	120	5239.980	5150 to 5250	Pass
			0	120	5240.000	5150 to 5250	Pass
			10	120	5240.040	5150 to 5250	Pass
			30	120	5239.980	5150 to 5250	Pass
			40	120	5239.960	5150 to 5250	Pass
			50	120	5239.960	5150 to 5250	Pass
		5745	20	102	5745.040	5725 to 5850	Pass
				120	5744.980	5725 to 5850	Pass
				138	5744.980	5725 to 5850	Pass
			-30	120	5745.000	5725 to 5850	Pass
			-20	120	5744.960	5725 to 5850	Pass
			-10	120	5745.000	5725 to 5850	Pass
			0	120	5744.980	5725 to 5850	Pass
			10	120	5745.000	5725 to 5850	Pass
			30	120	5744.980	5725 to 5850	Pass
			40	120	5745.020	5725 to 5850	Pass
			50	120	5744.980	5725 to 5850	Pass



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		5785	20	102	5785.020	5725 to 5850	Pass
				120	5785.020	5725 to 5850	Pass
				138	5785.020	5725 to 5850	Pass
			-30	120	5784.980	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass
			-10	120	5785.020	5725 to 5850	Pass
			0	120	5784.980	5725 to 5850	Pass
			10	120	5785.000	5725 to 5850	Pass
			30	120	5785.000	5725 to 5850	Pass
			40	120	5784.980	5725 to 5850	Pass
			50	120	5784.980	5725 to 5850	Pass
		5825	20	102	5825.020	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5825.000	5725 to 5850	Pass
			-30	120	5824.980	5725 to 5850	Pass
			-20	120	5825.060	5725 to 5850	Pass
			-10	120	5825.040	5725 to 5850	Pass
			0	120	5825.020	5725 to 5850	Pass
			10	120	5825.020	5725 to 5850	Pass
			30	120	5825.000	5725 to 5850	Pass
			40	120	5825.000	5725 to 5850	Pass
			50	120	5825.000	5725 to 5850	Pass



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6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5180	5240	0.0408	16.11
5745	5825	0.0547	17.38

- End of the Report -



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