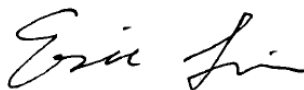


Test Report

Application No.: KSCR2204000420AT
FCC ID: 2AAGE-TAB10RK664G
Applicant: Chengdu Vantron Technology Co., Ltd.
Address of Applicant: No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China
Manufacturer: Chengdu Vantron Technology Co., Ltd.
Address of Manufacturer: No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China
Factory: Chengdu Vantron Technology Co., Ltd.
Address of Factory: No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China
Equipment Under Test (EUT):
EUT Name: Tablet
Model No.: M10 Pro
Trade Mark: Vantron
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-04-02
Date of Test: 2022-04-09 to 2022-05-22
Date of Issue: 2022-07-28

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

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



Eric Lin
Laboratory Manager

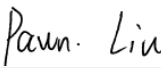
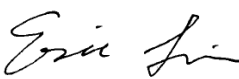


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-28		Original

Authorized for issue by:			
		 <hr/> Pawn.Liu/Project Engineer	
		 <hr/> Eric Lin/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 & 15.407 b(6)	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:	DC 3.8V by Battery Battery Model:GSP27103107 Battery:8000mAh,3.8V,30.4Wh Adapter Model:MX15U-0503000UU Input: AC 100-240V,0.5A,50-60Hz Output: DC 5V,3A
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-3: 5775MHz
Moudulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	U-NII-1:4.3dBi(Provided by the manufacturer) U-NII-3:3dBi(Provided by the manufacturer)
Test Voltage:	AC 120V/60Hz

4.2 Power level setting using in test:

Channel	802.11a	802.11n(HT20)	802.11ac(VHT20)
	Ant 1	Ant 1	Ant 1
36	Default	Default	Default
40	Default	Default	Default
48	Default	Default	Default
149	Default	Default	Default
157	Default	Default	Default
165	Default	Default	Default
Channel	802.11n(HT40)	802.11ac(VHT40)	
	Ant 1	Ant 1	
38	Default	Default	
46	Default	Default	
151	Default	Default	
159	Default	Default	
Channel	802.11ac(VHT80)		
	Ant 1		



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42	Default
155	Default

4.3 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	25	120

Note:
 NV:Normal Voltage LV:Low Extreme Test Voltage HV:High Extreme Test Voltage
 NT:Normal Temperature LT:Low Extreme Test Temperature HT:High Extreme Test Temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	/	/	/

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation Park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.7 Test Facility

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

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

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

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/14/2021	11/13/2022
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	10/11/2021	10/10/2022
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	09/17/2021	09/16/2022
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	10/12/2021	10/11/2022
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/27/2021	08/26/2022
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	09/23/2021	09/22/2022
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	10/12/2021	10/11/2022
9	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/01/2021	03/31/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	10/11/2021	10/10/2022
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	10/18/2021	10/17/2022
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	10/26/2020	10/25/2022
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/22/2022	03/21/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMC-v 3A1	/	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the U-NII-1:4.3dBi;U-NII-3:3dBi;

Antenna location: Refer to Appendix (Internal Photos)



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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

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 signaling 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:

RF chip (XXXXX) 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 & 15.407 b(6)

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: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

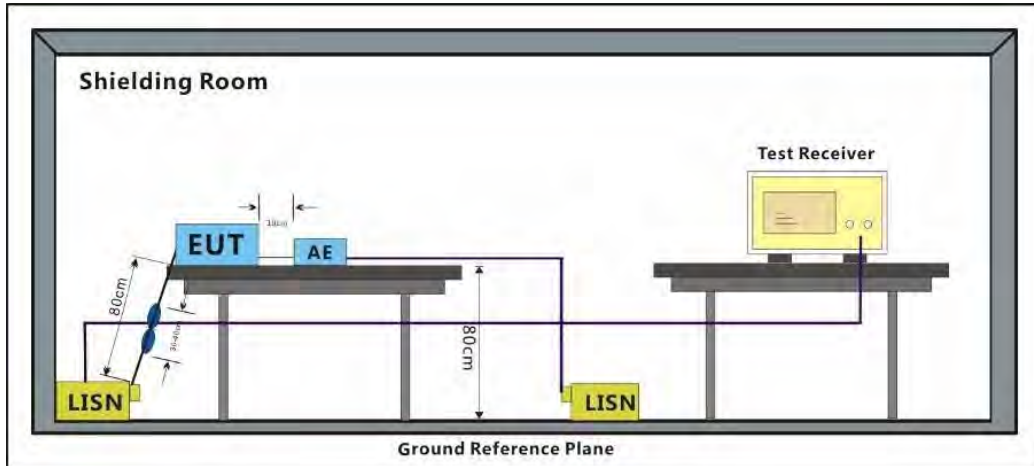
Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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

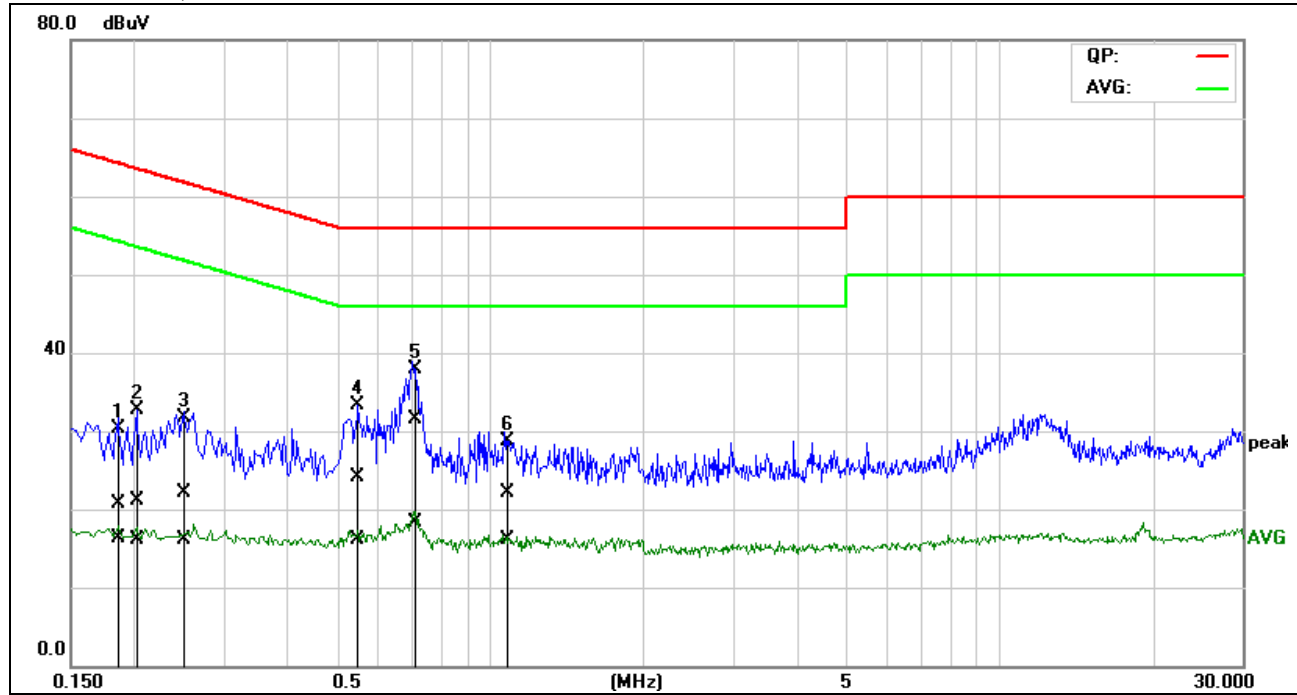


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Test Mode: 00; Line: Live line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1871	1.25	-3.22	19.50	20.75	16.28	64.16	54.16	-43.41	-37.88	Pass
2	0.2036	1.63	-3.34	19.50	21.13	16.16	63.46	53.46	-42.33	-37.30	Pass
3	0.2524	2.66	-3.50	19.51	22.17	16.01	61.68	51.68	-39.51	-35.67	Pass
4	0.5488	4.60	-3.44	19.56	24.16	16.12	56.00	46.00	-31.84	-29.88	Pass
5*	0.7186	11.93	-1.21	19.57	31.50	18.36	56.00	46.00	-24.50	-27.64	Pass
6	1.0780	2.56	-3.43	19.60	22.16	16.17	56.00	46.00	-33.84	-29.83	Pass



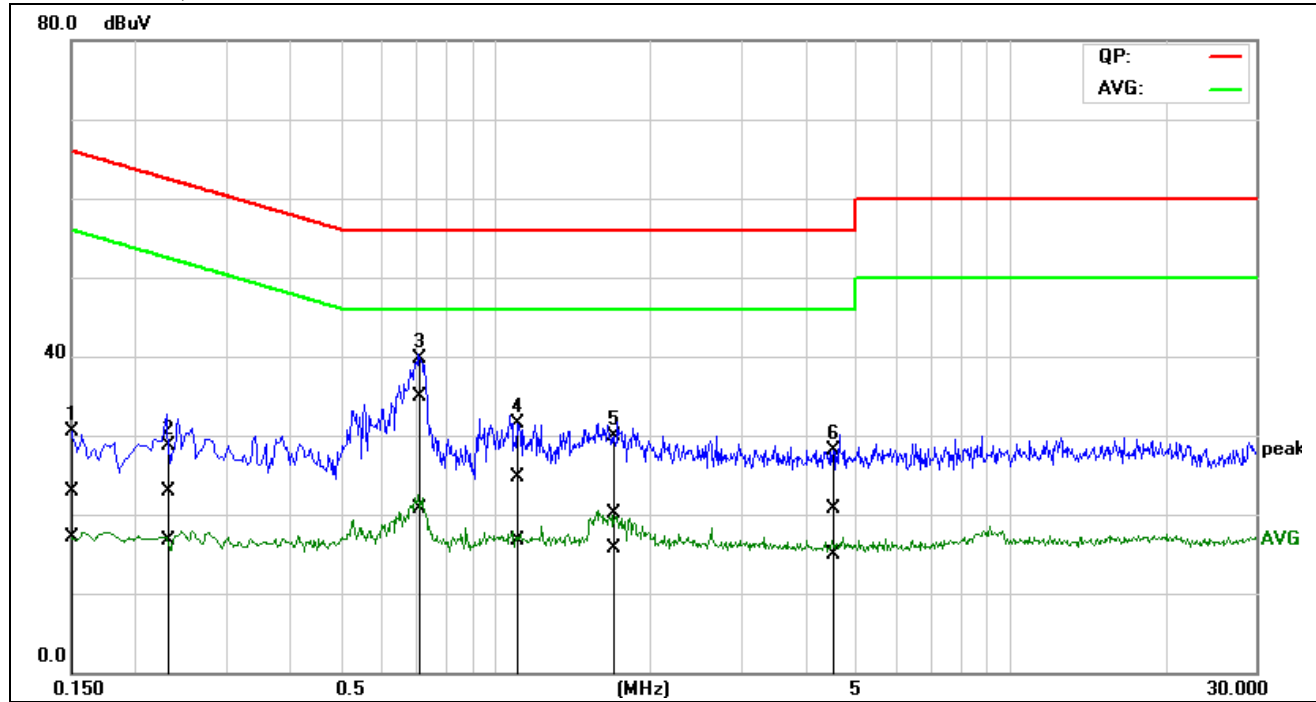
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Test Mode: 00; Line: Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1519	3.49	-2.29	19.48	22.97	17.19	65.90	55.90	-42.93	-38.71	Pass
2	0.2332	3.50	-2.73	19.49	22.99	16.76	62.33	52.33	-39.34	-35.57	Pass
3*	0.7161	15.30	1.11	19.56	34.86	20.67	56.00	46.00	-21.14	-25.33	Pass
4	1.0938	5.19	-2.81	19.60	24.79	16.79	56.00	46.00	-31.21	-29.21	Pass
5	1.6893	0.52	-3.87	19.63	20.15	15.76	56.00	46.00	-35.85	-30.24	Pass
6	4.5700	0.82	-4.92	19.79	20.61	14.87	56.00	46.00	-35.39	-31.13	Pass



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7.2 Duty Cycle

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

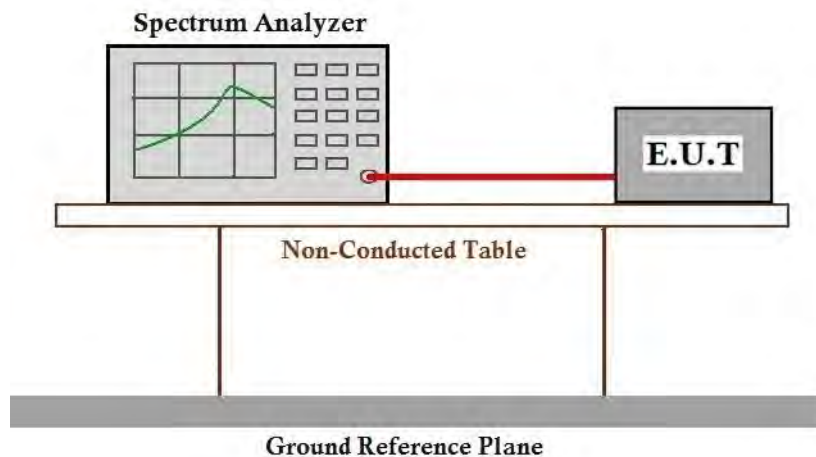
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220400042004



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EMC Laboratory

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7.3 99% Bandwidth

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

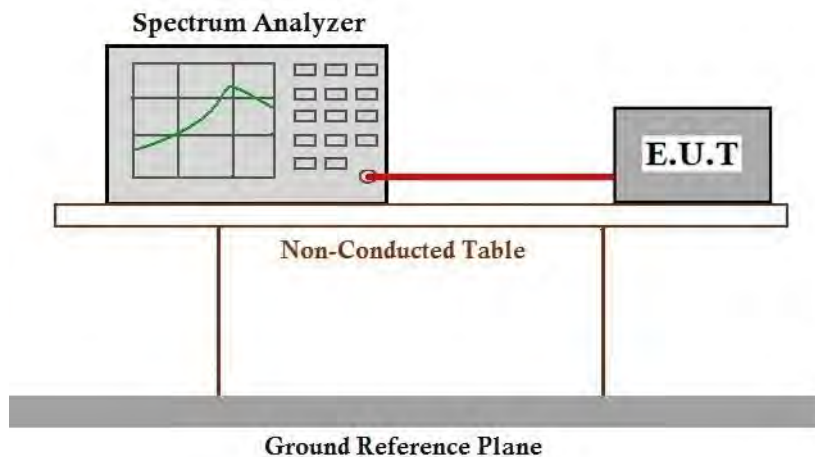
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220400042004



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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

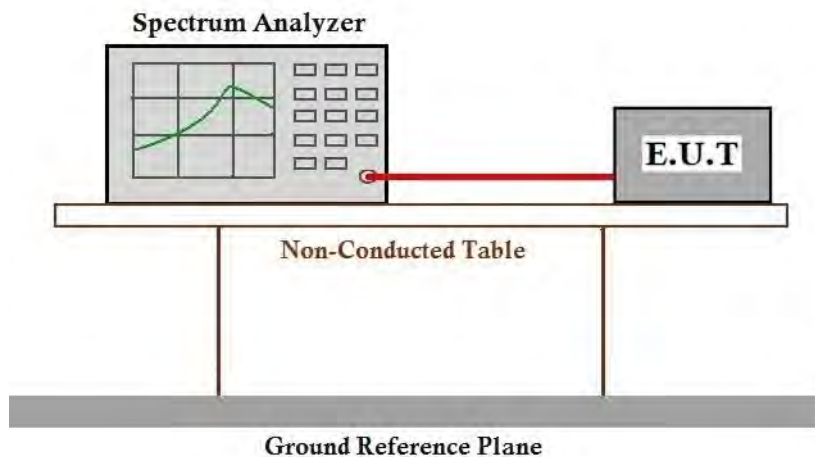
7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220400042004



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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

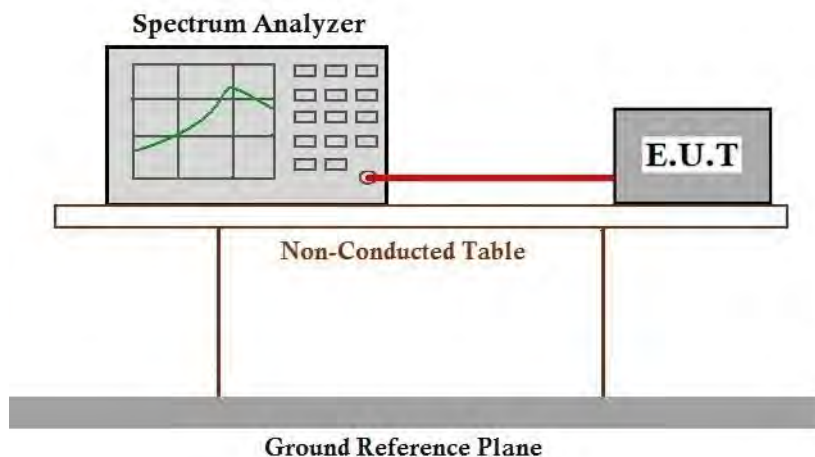
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220400042004



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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> <p>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</p> <p>The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The Gain of each antenna is Ant 1: 4.3dBi, Ant 2: 3dBi, so the Directional Gain: 6.68dBi. Therefore, the power limit should be reduced from the part exceeding 6, 5150-5250MHz: 10.83dBm & 5725-5850MHz: 29.83dBm.</p>

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80).

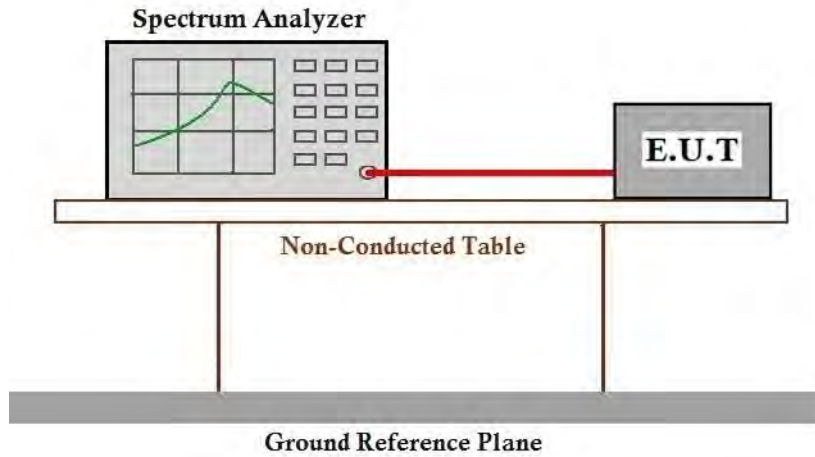


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		Only the data of worst case is recorded in the report.
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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

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7.7 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 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

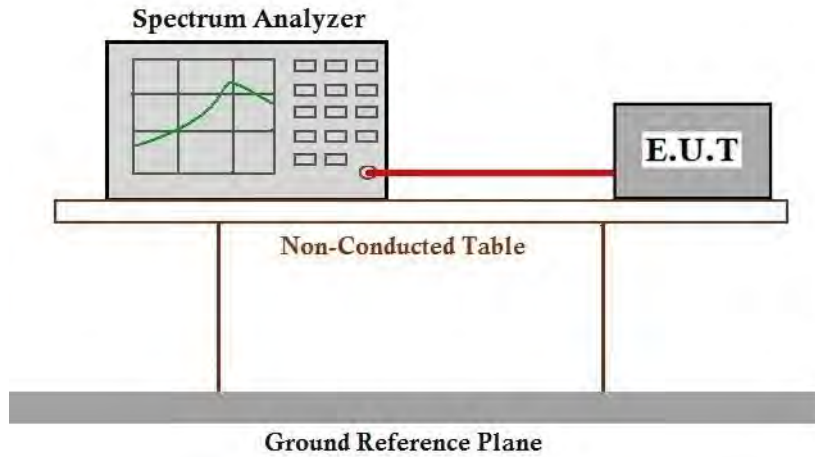
Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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 D for KSCR220400042004



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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

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: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80).

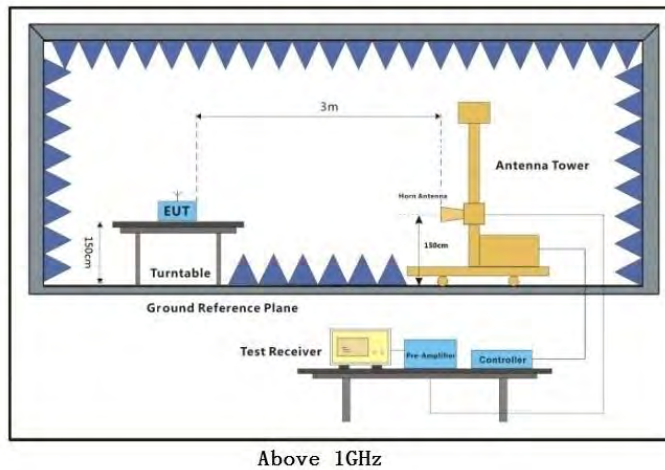


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		Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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.

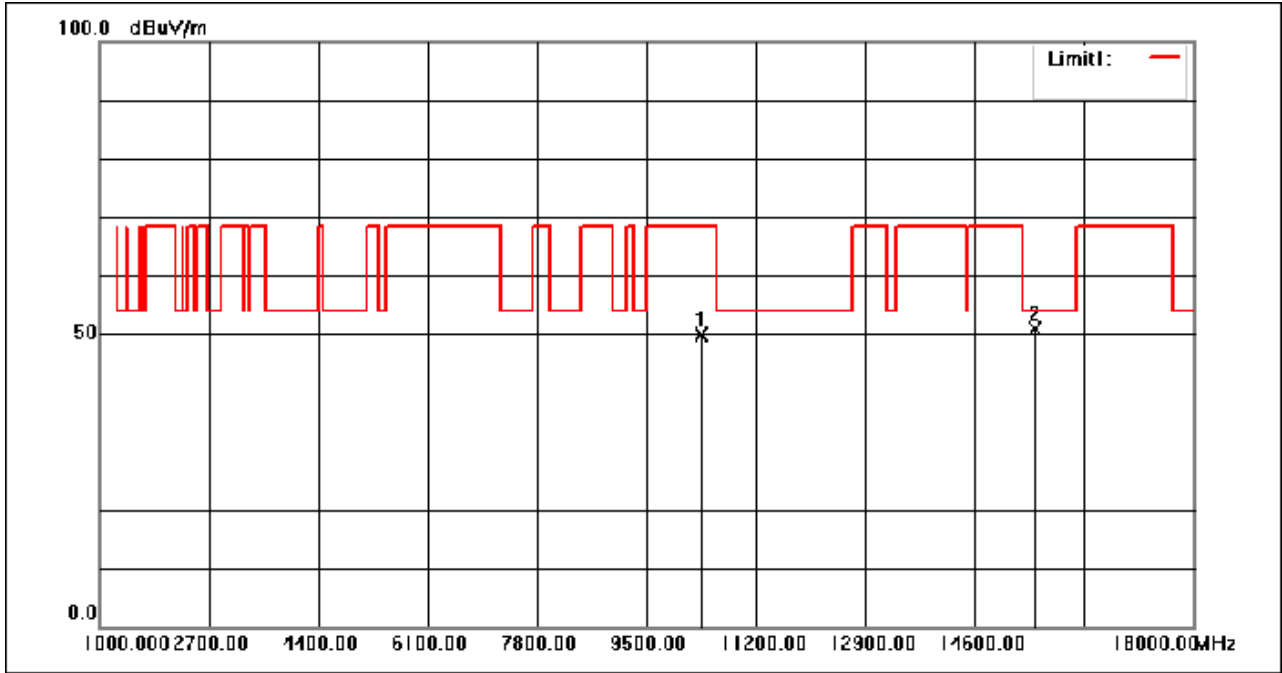


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.60	0.16	49.76	68.30	-18.54	peak
2	15540.000	45.03	5.73	50.76	54.00	-3.24	peak

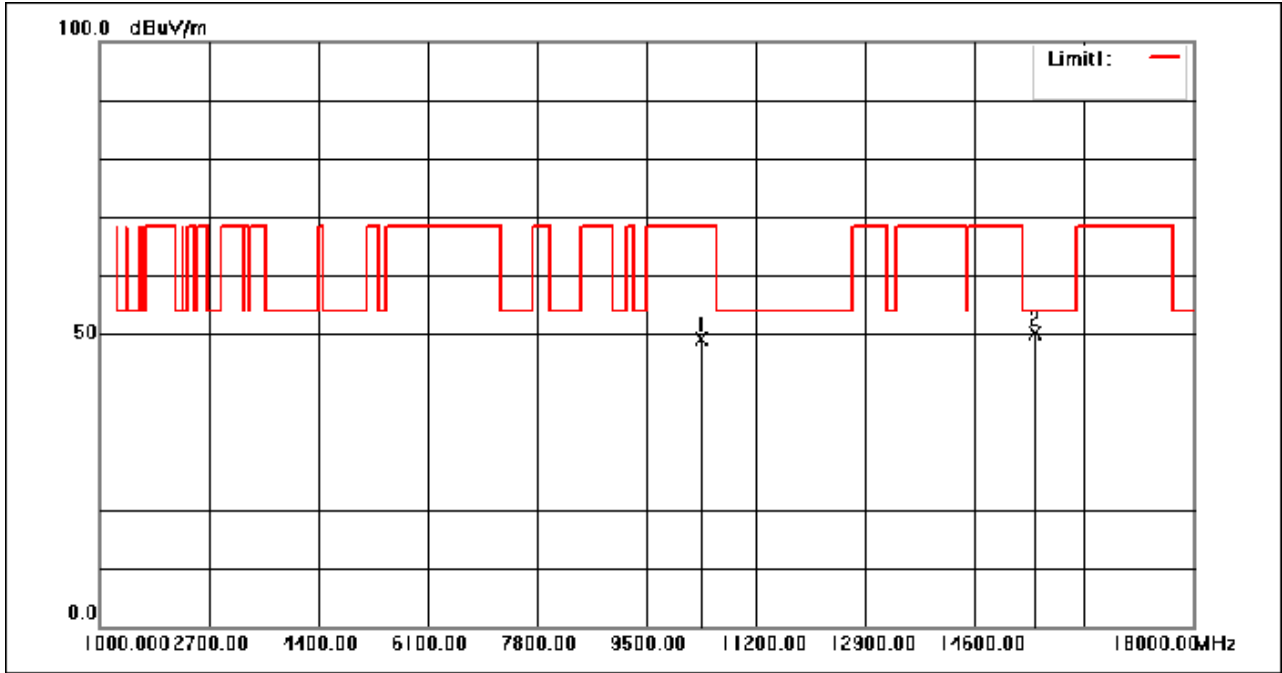


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	48.90	0.16	49.06	68.30	-19.24	peak
2	15540.000	44.30	5.73	50.03	54.00	-3.97	peak

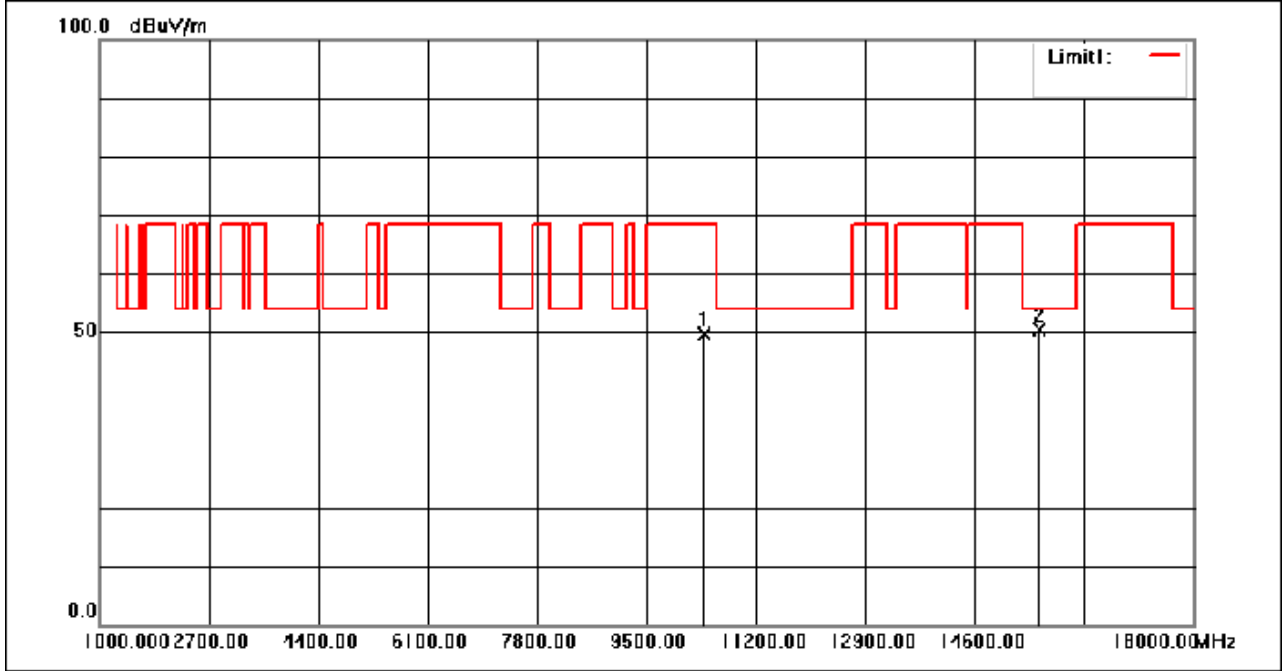


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.27	0.24	49.51	68.30	-18.79	peak
2	15600.000	44.49	5.85	50.34	54.00	-3.66	peak

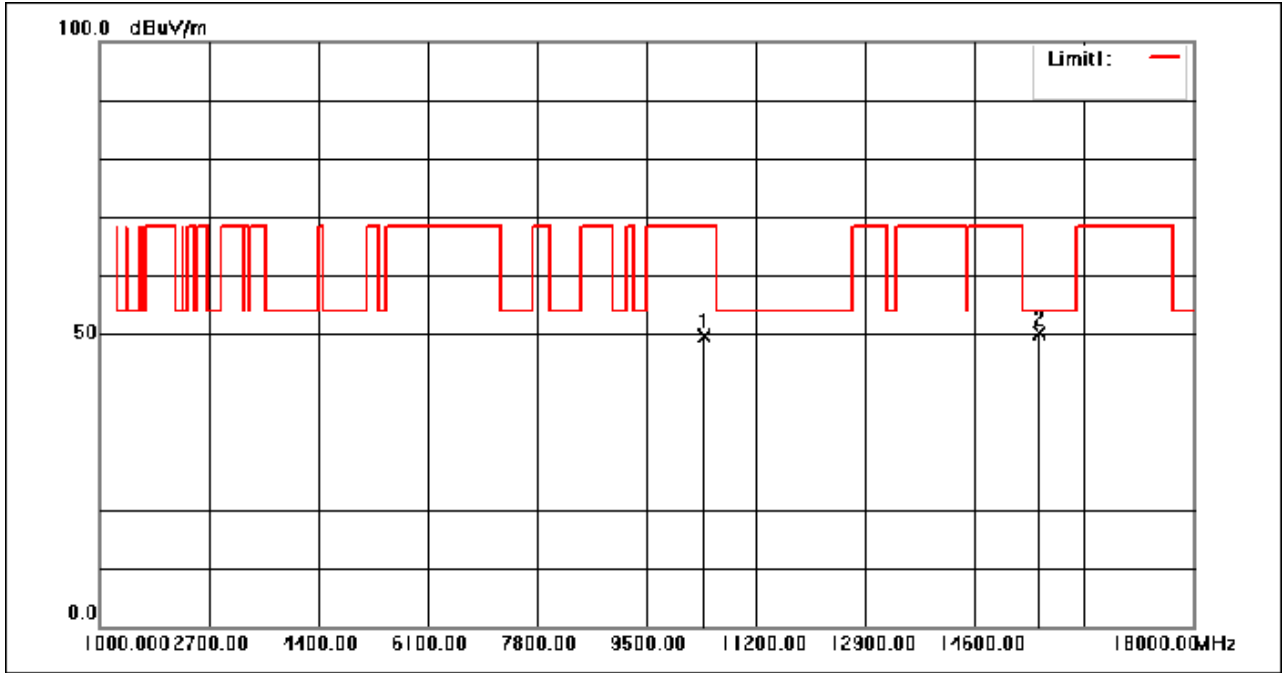


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.47	0.24	49.71	68.30	-18.59	peak
2	15600.000	44.16	5.85	50.01	54.00	-3.99	peak

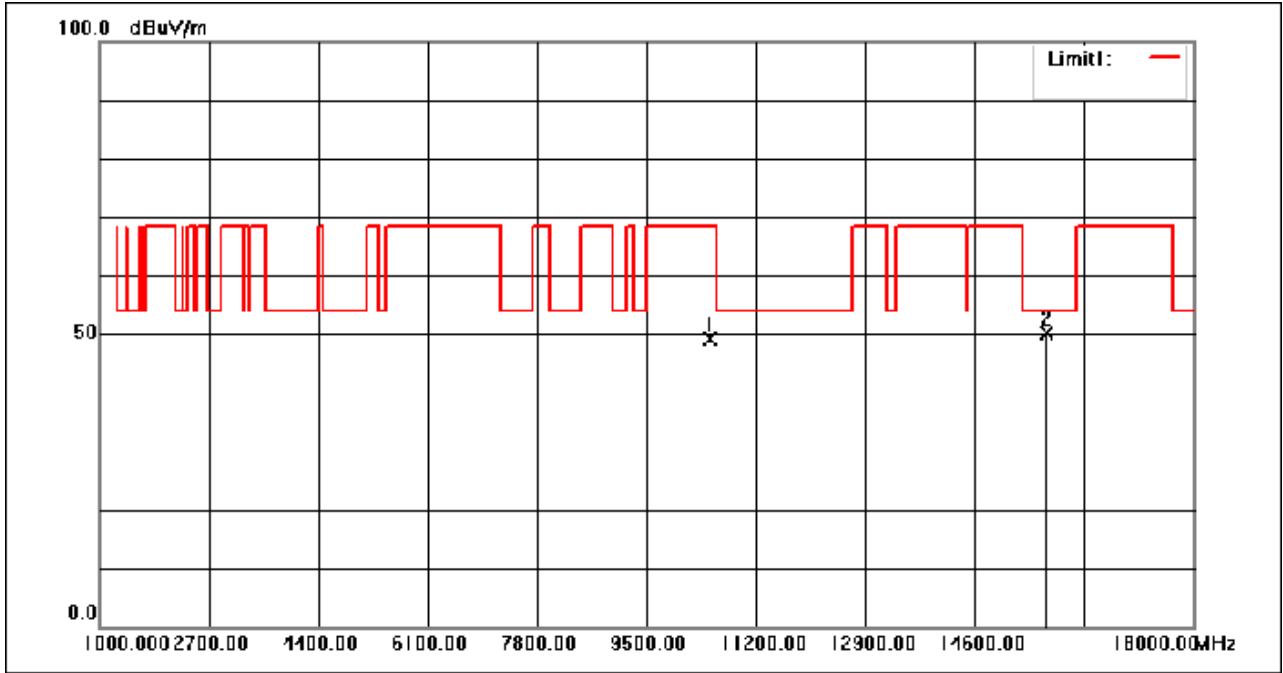


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.77	0.40	49.17	68.30	-19.13	peak
2	15720.000	44.12	6.10	50.22	54.00	-3.78	peak

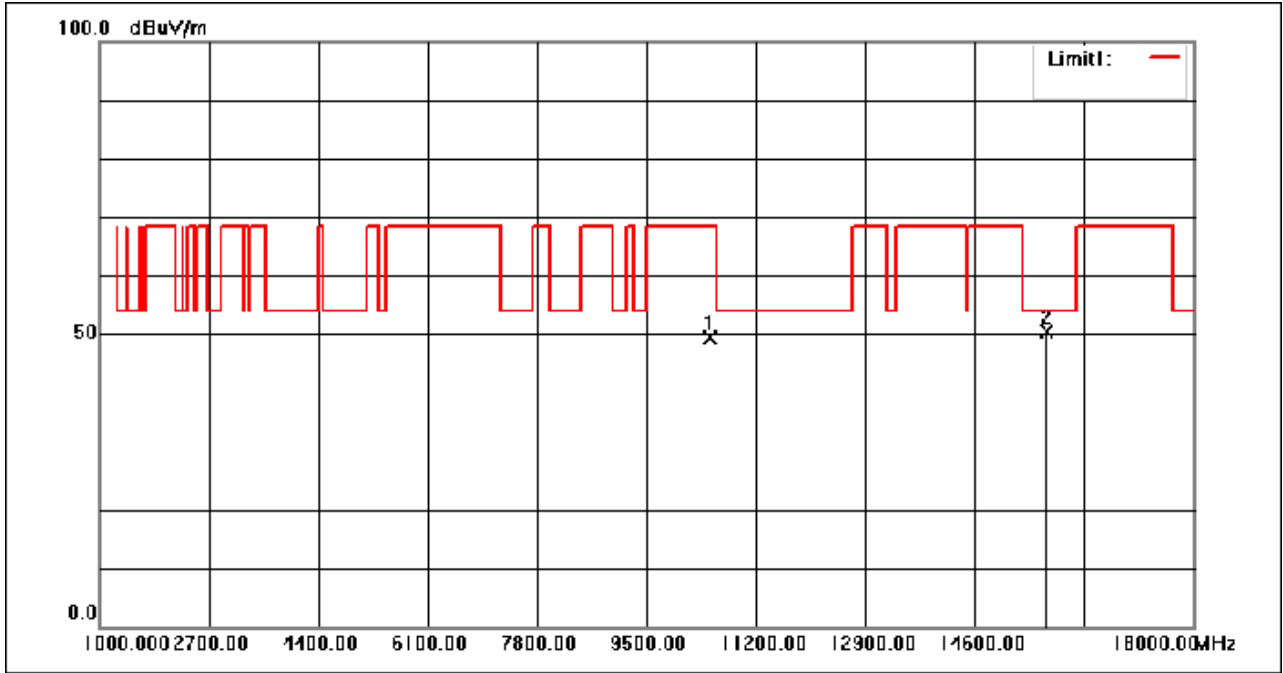


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.03	0.40	49.43	68.30	-18.87	peak
2	15720.000	44.37	6.10	50.47	54.00	-3.53	peak

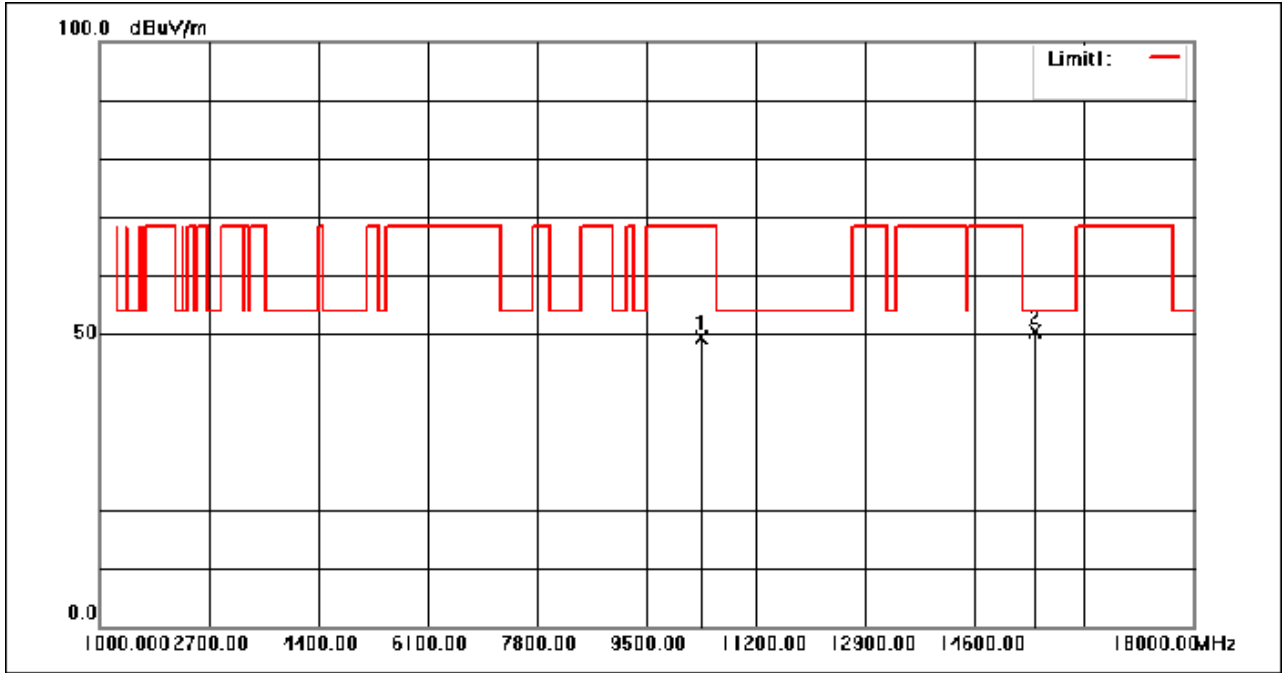


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.34	0.16	49.50	68.30	-18.80	peak
2	15540.000	44.56	5.73	50.29	54.00	-3.71	peak

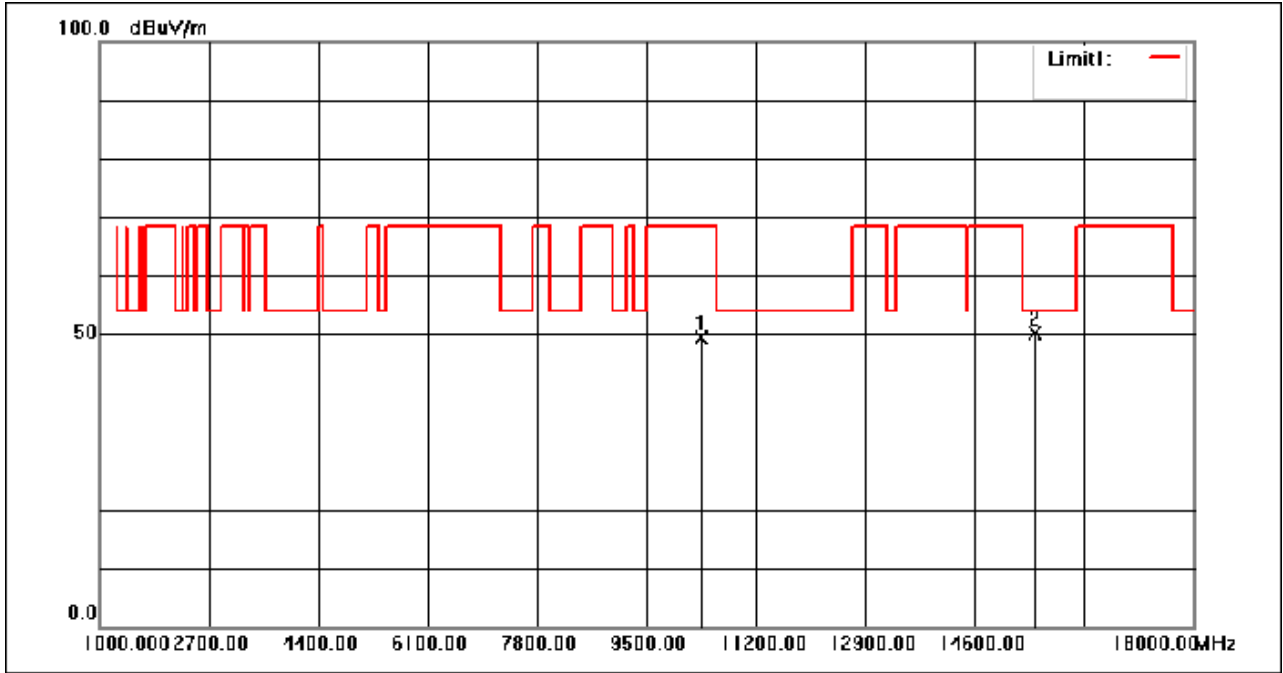


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.15	0.16	49.31	68.30	-18.99	peak
2	15540.000	44.45	5.73	50.18	54.00	-3.82	peak

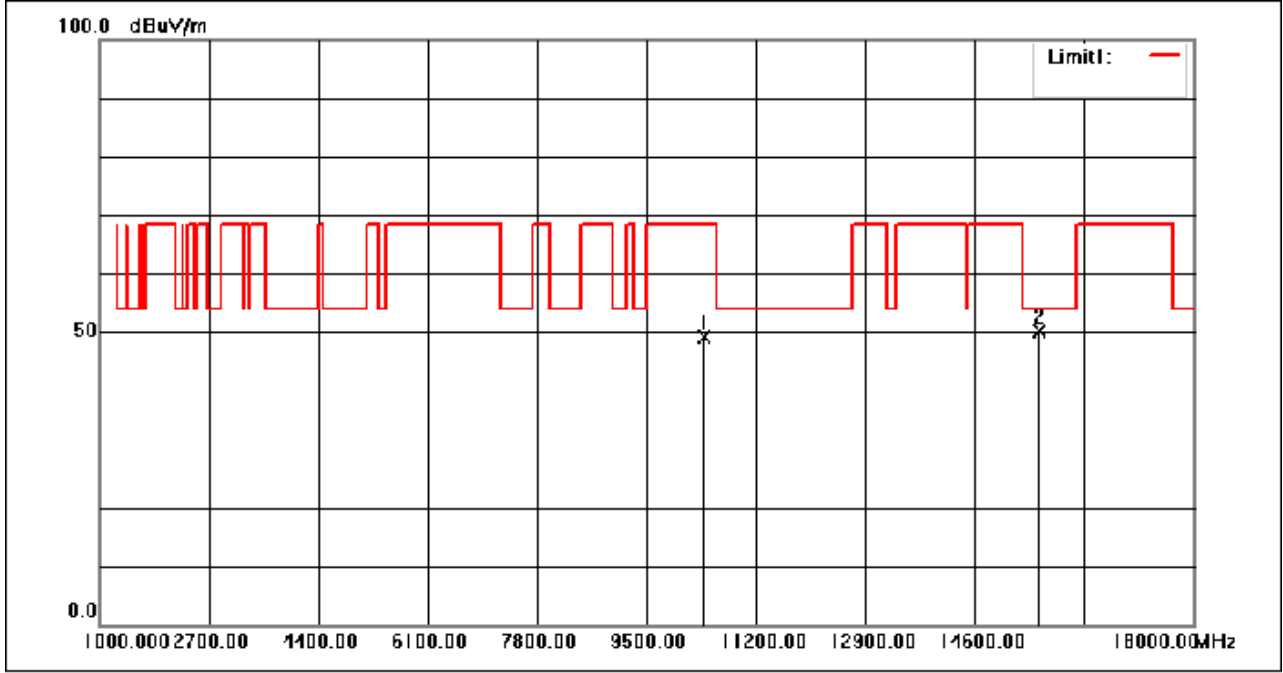


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	48.96	0.24	49.20	68.30	-19.10	peak
2	15600.000	44.29	5.85	50.14	54.00	-3.86	peak

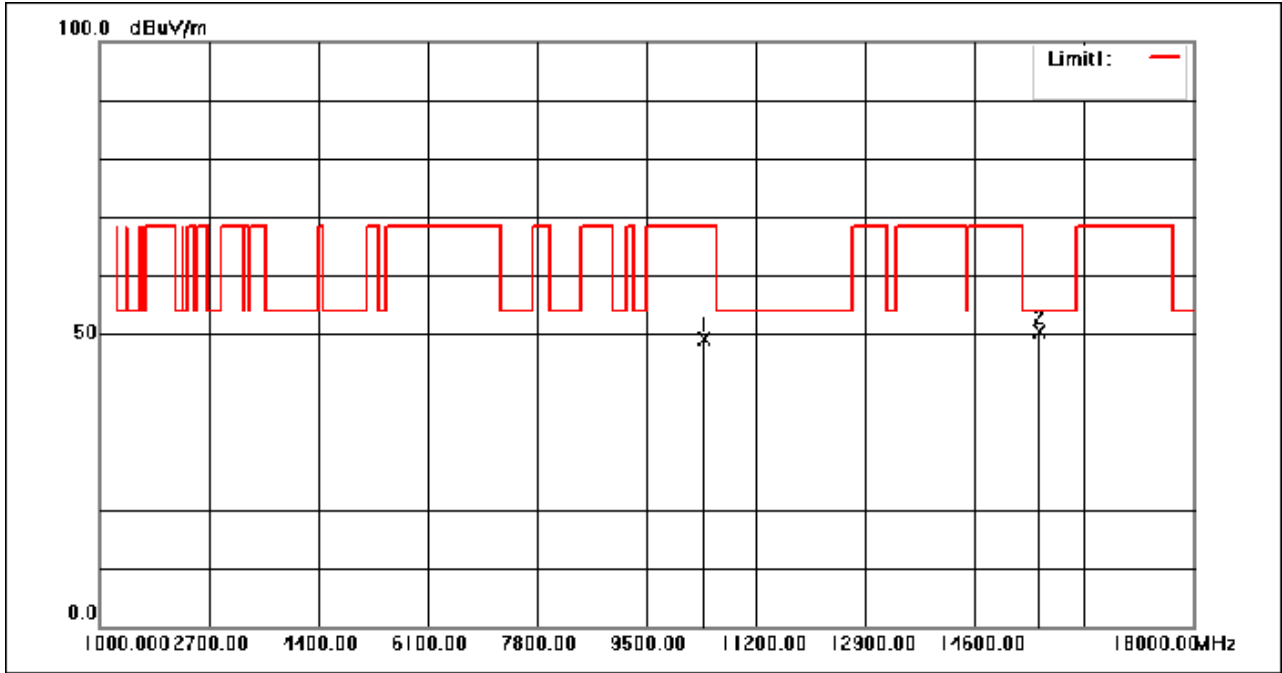


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.01	0.24	49.25	68.30	-19.05	peak
2	15600.000	44.55	5.85	50.40	54.00	-3.60	peak

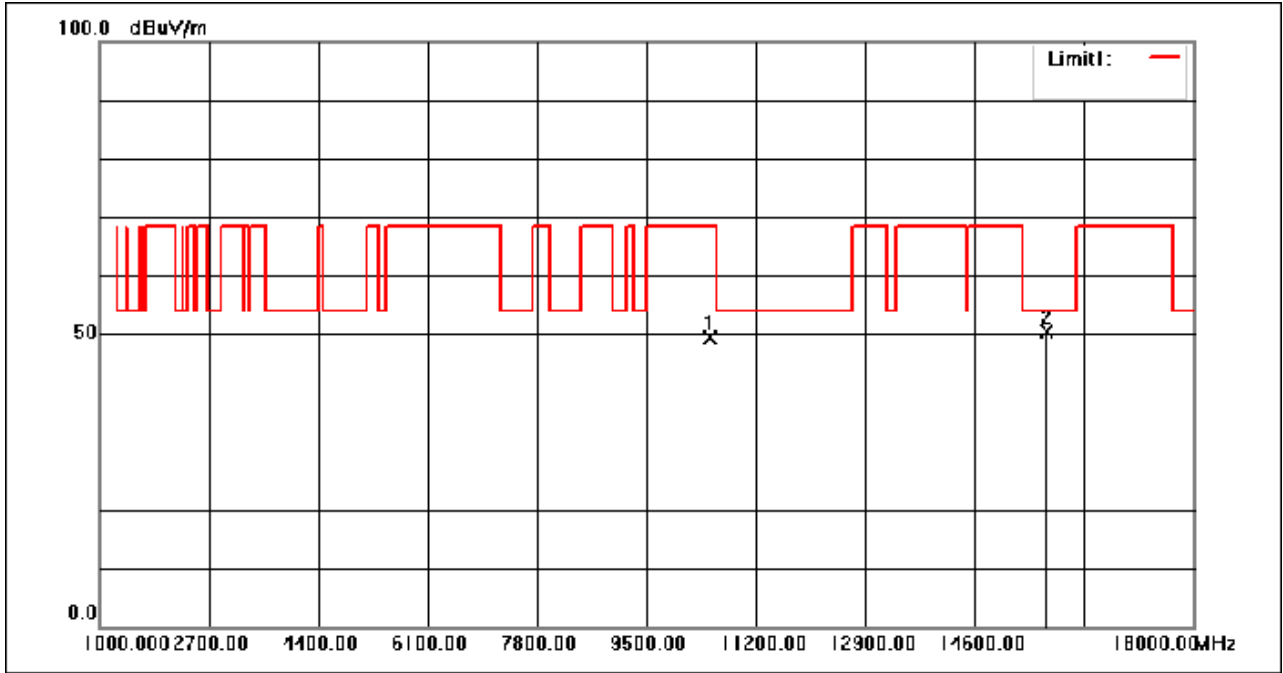


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.10	0.40	49.50	68.30	-18.80	peak
2	15720.000	44.16	6.10	50.26	54.00	-3.74	peak

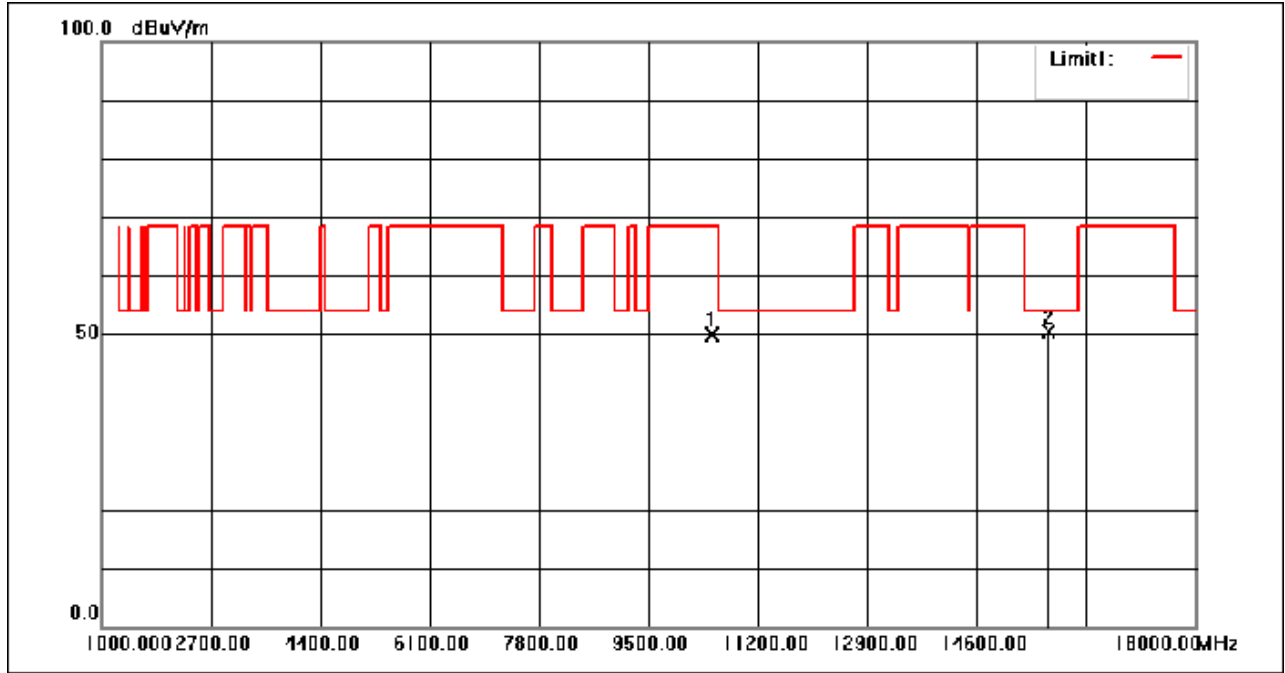


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.58	0.40	49.98	68.30	-18.32	peak
2	15720.000	44.39	6.10	50.49	54.00	-3.51	peak

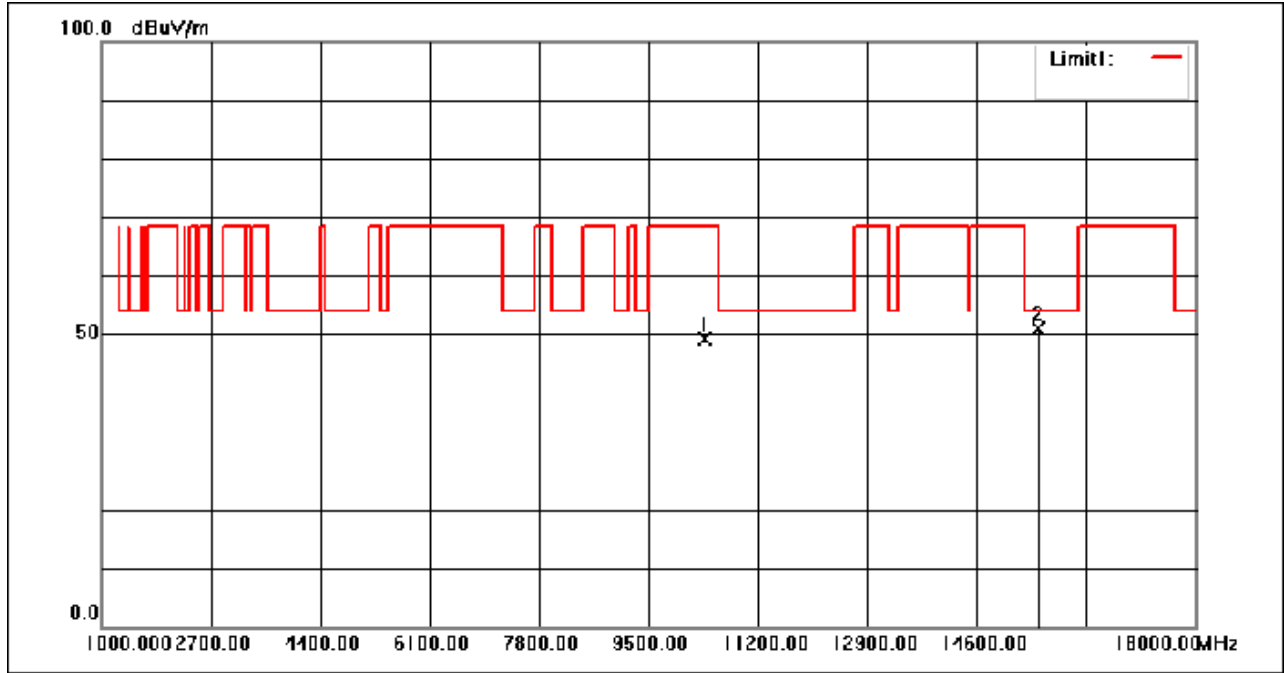


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	48.84	0.20	49.04	68.30	-19.26	peak
2	15570.000	45.10	5.79	50.89	54.00	-3.11	peak

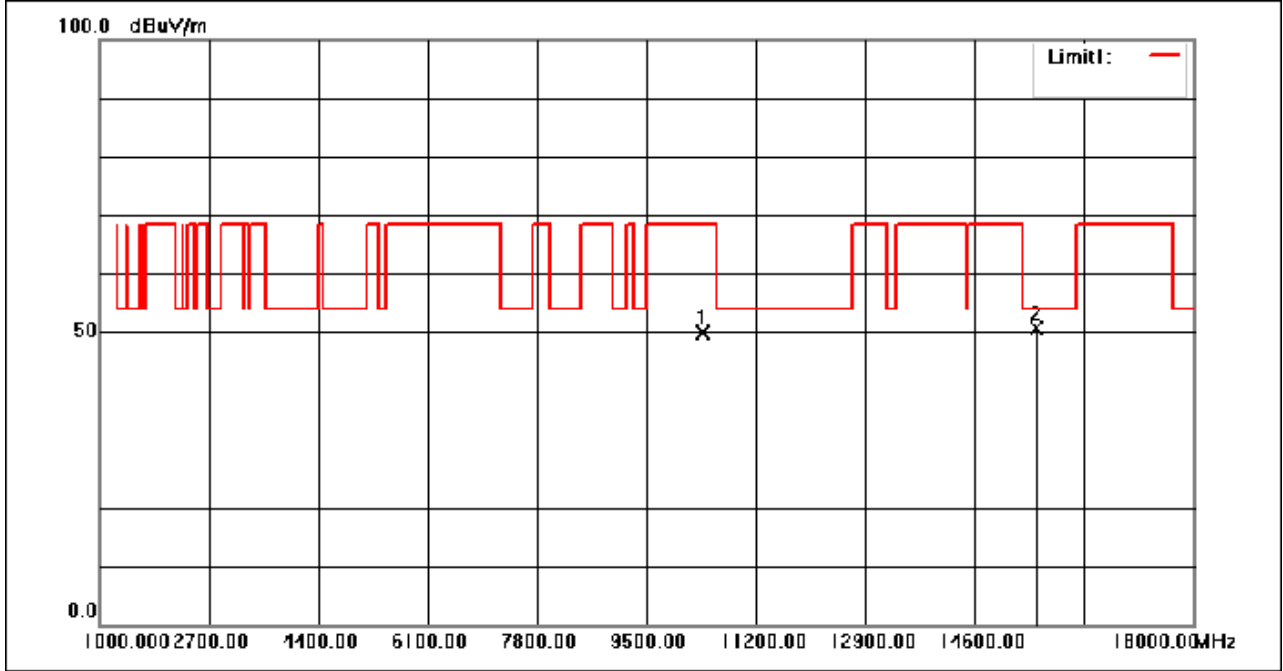


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	49.64	0.20	49.84	68.30	-18.46	peak
2	15570.000	44.91	5.79	50.70	54.00	-3.30	peak

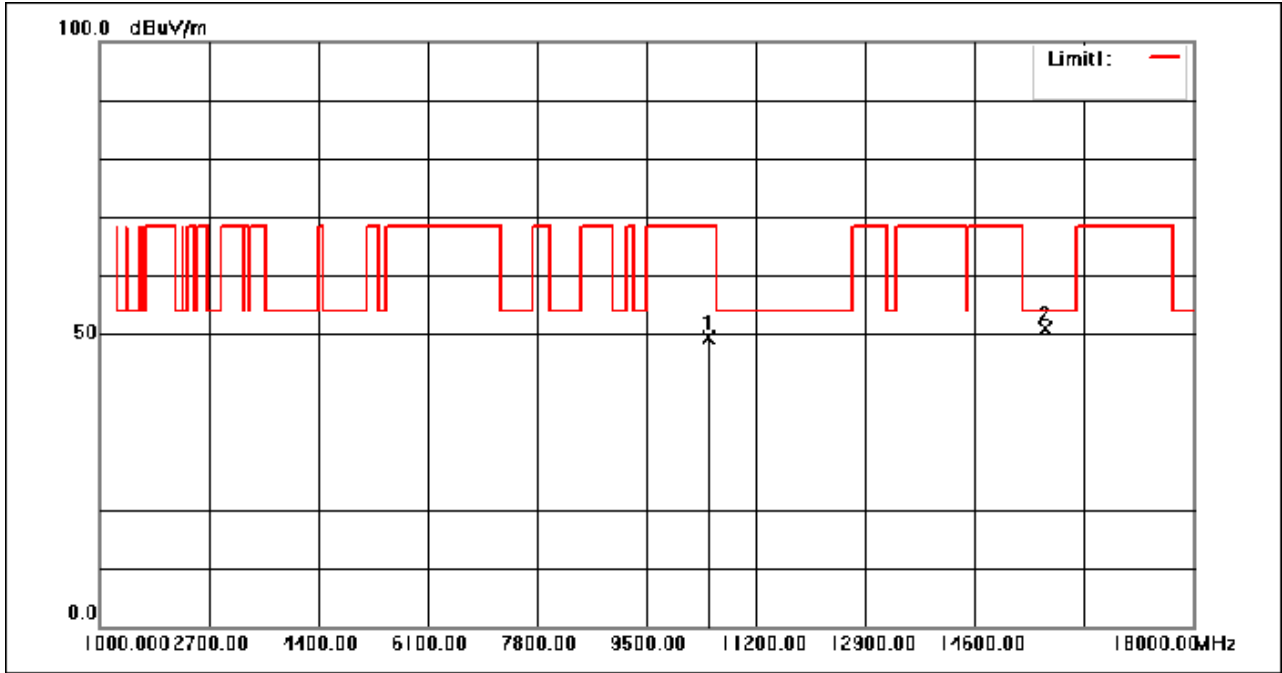


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	48.97	0.36	49.33	68.30	-18.97	peak
2	15690.000	44.81	6.04	50.85	54.00	-3.15	peak

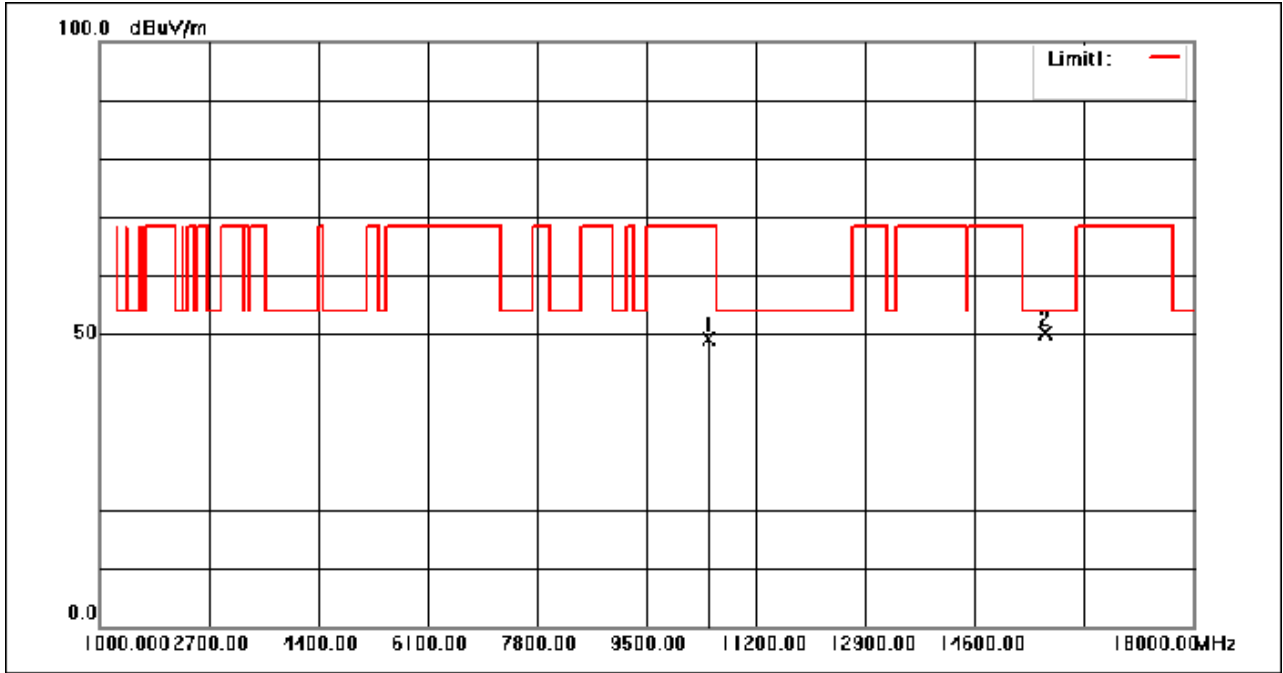


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	48.84	0.36	49.20	68.30	-19.10	peak
2	15690.000	44.18	6.04	50.22	54.00	-3.78	peak

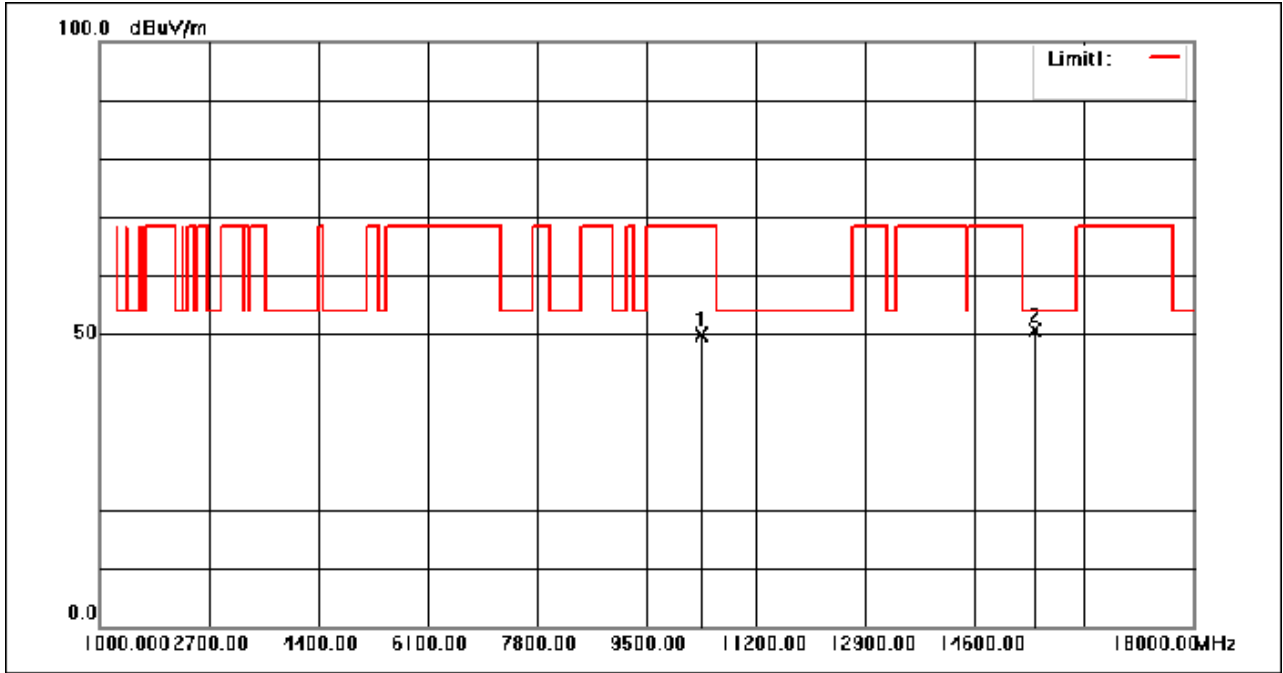


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.80	0.16	49.96	68.30	-18.34	peak
2	15540.000	44.79	5.73	50.52	54.00	-3.48	peak

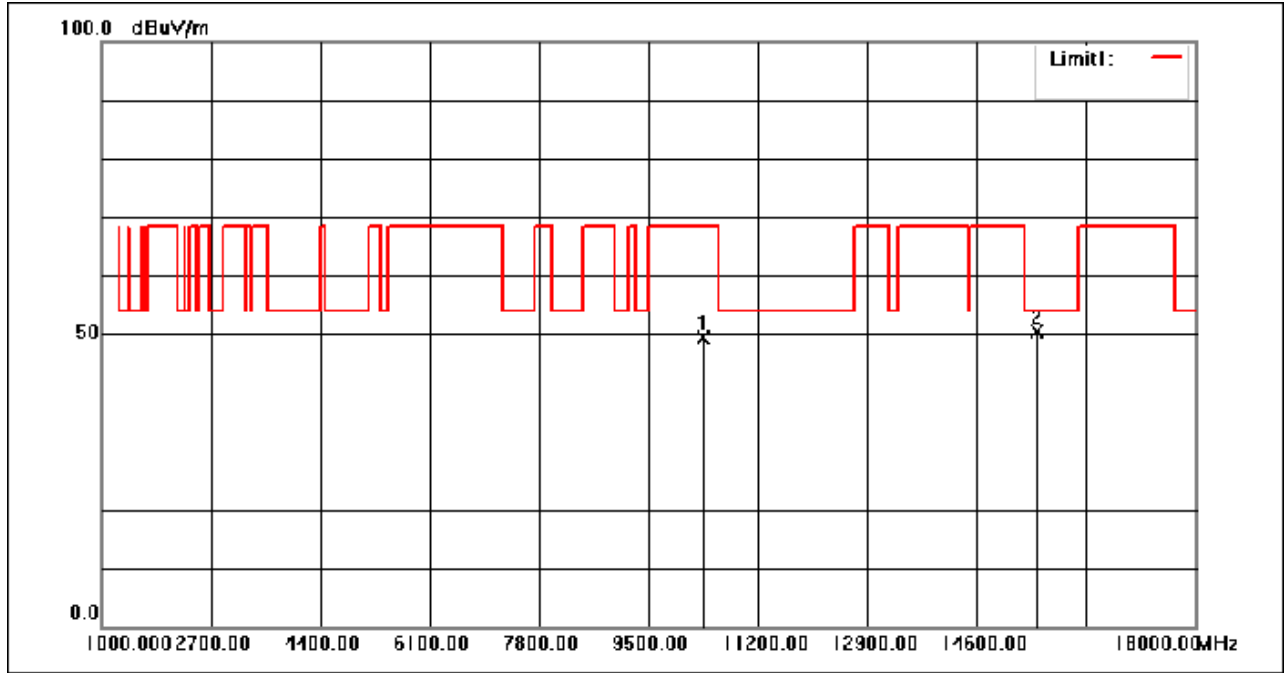


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.26	0.16	49.42	68.30	-18.88	peak
2	15540.000	44.64	5.73	50.37	54.00	-3.63	peak

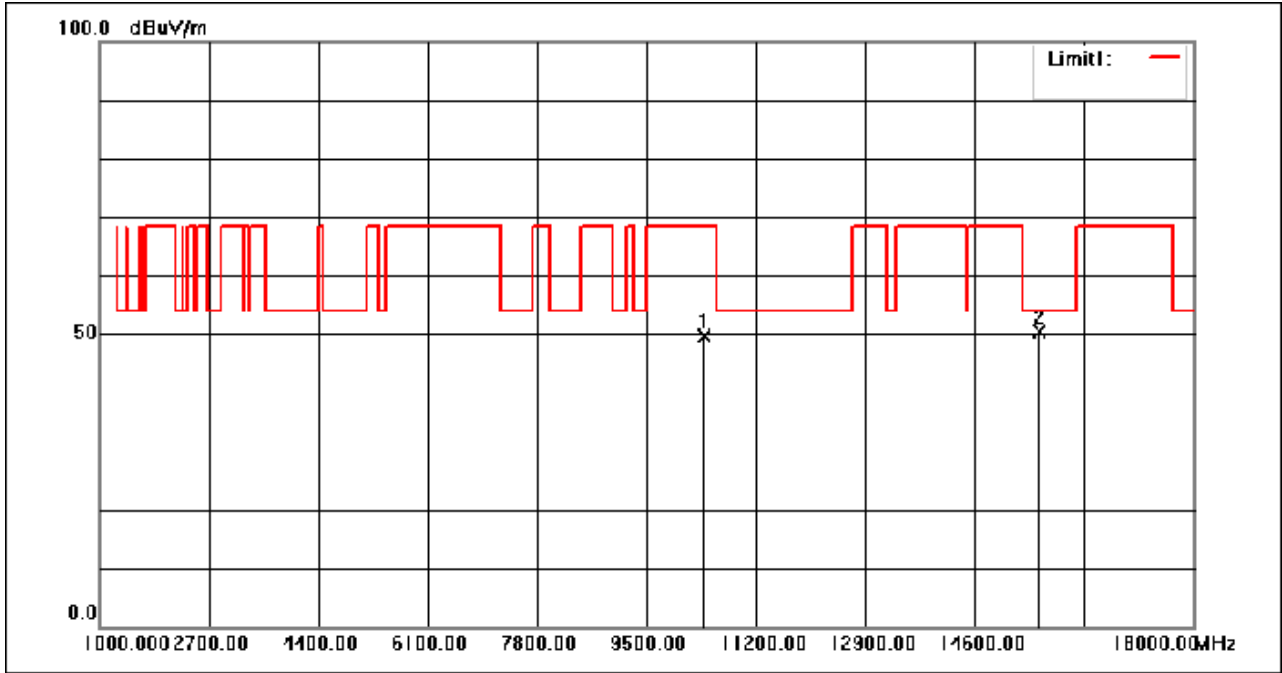


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.50	0.24	49.74	68.30	-18.56	peak
2	15600.000	44.64	5.85	50.49	54.00	-3.51	peak

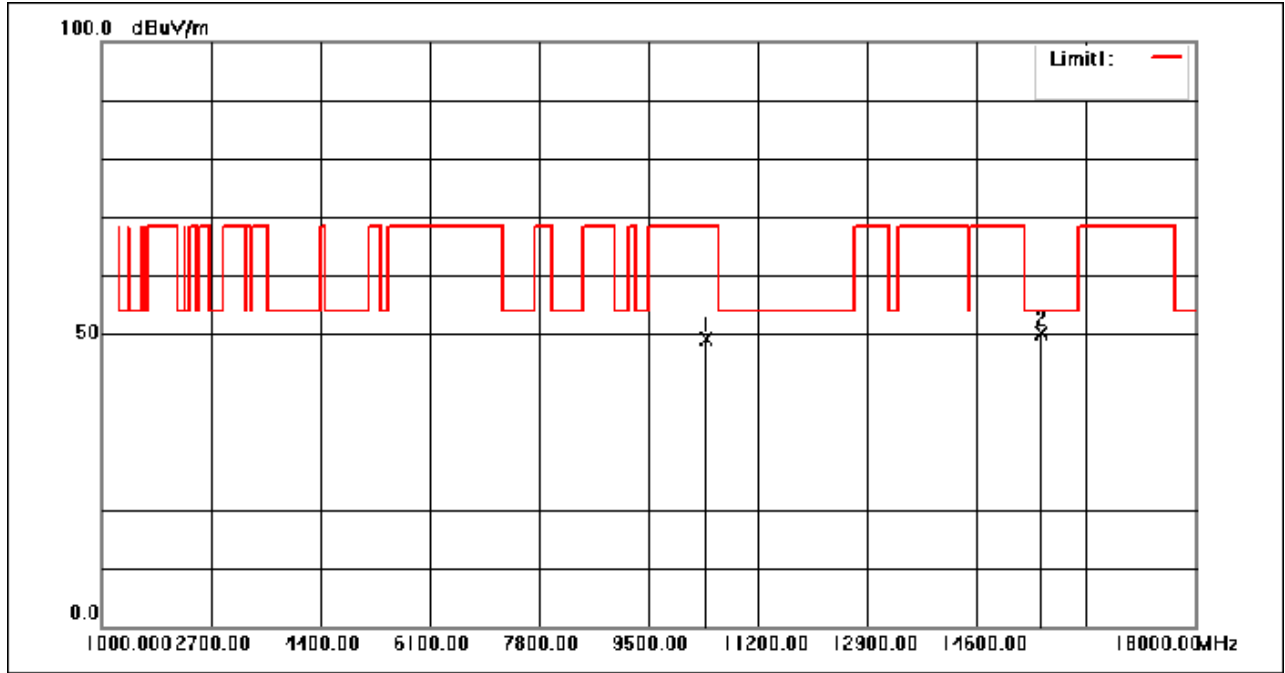


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Test Mode: 01; Polarity: Vertical; Modulation:802.11 ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	48.84	0.24	49.08	68.30	-19.22	peak
2	15600.000	44.33	5.85	50.18	54.00	-3.82	peak

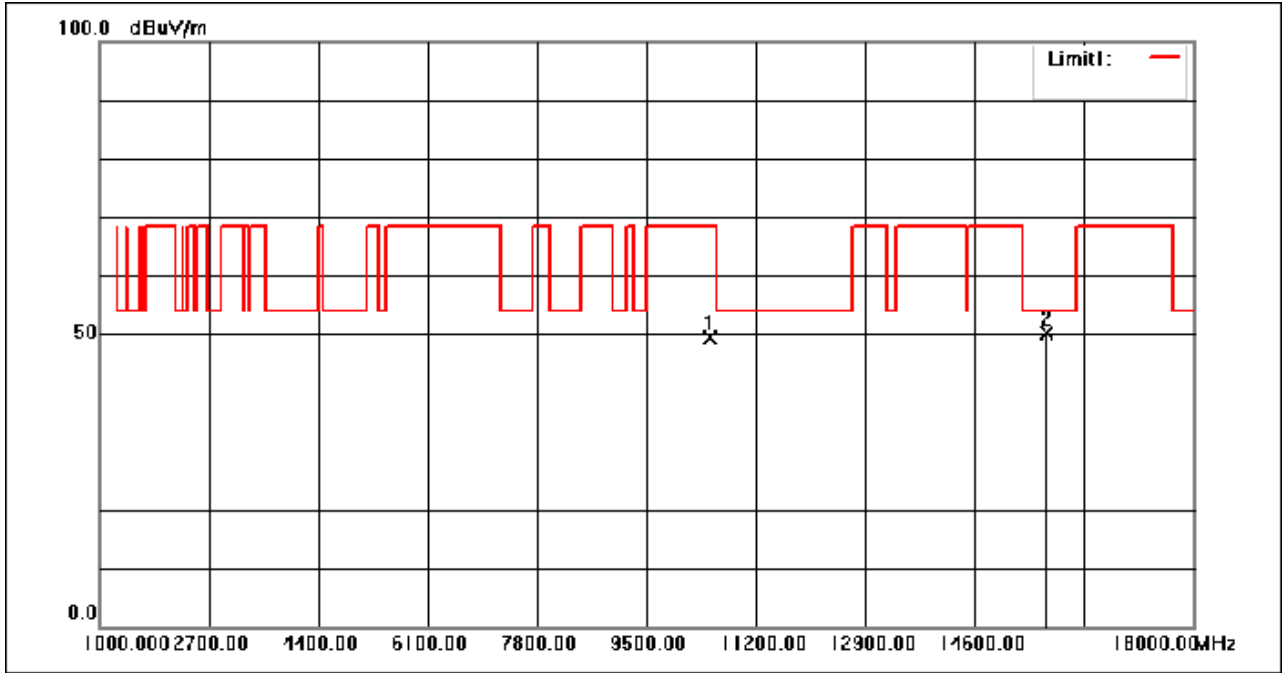


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.93	0.40	49.33	68.30	-18.97	peak
2	15720.000	43.91	6.10	50.01	54.00	-3.99	peak

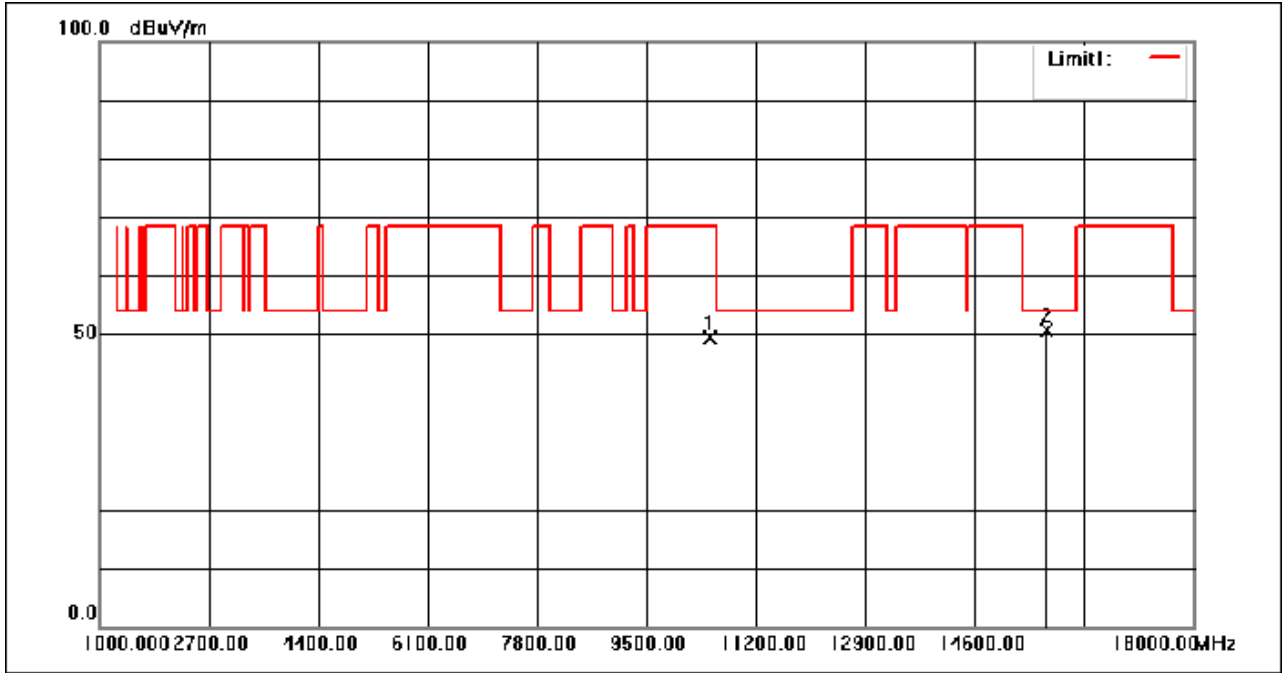


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.07	0.40	49.47	68.30	-18.83	peak
2	15720.000	44.49	6.10	50.59	54.00	-3.41	peak

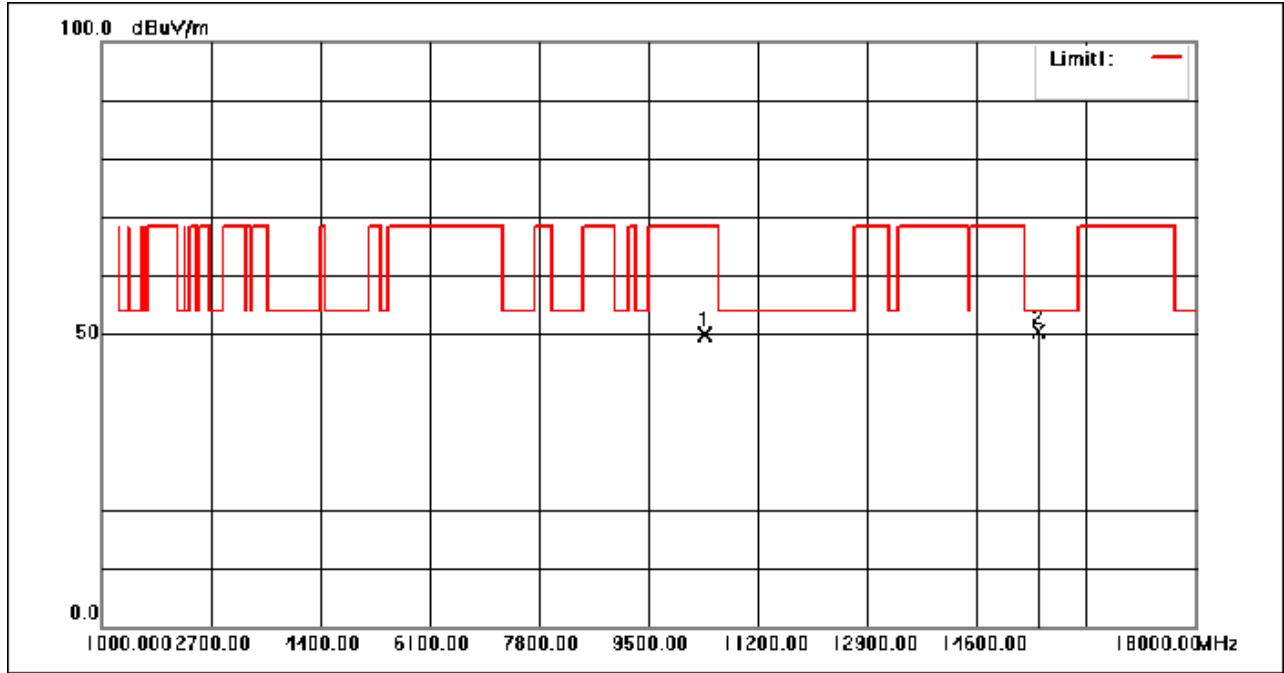


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	49.59	0.20	49.79	68.30	-18.51	peak
2	15570.000	44.71	5.79	50.50	54.00	-3.50	peak



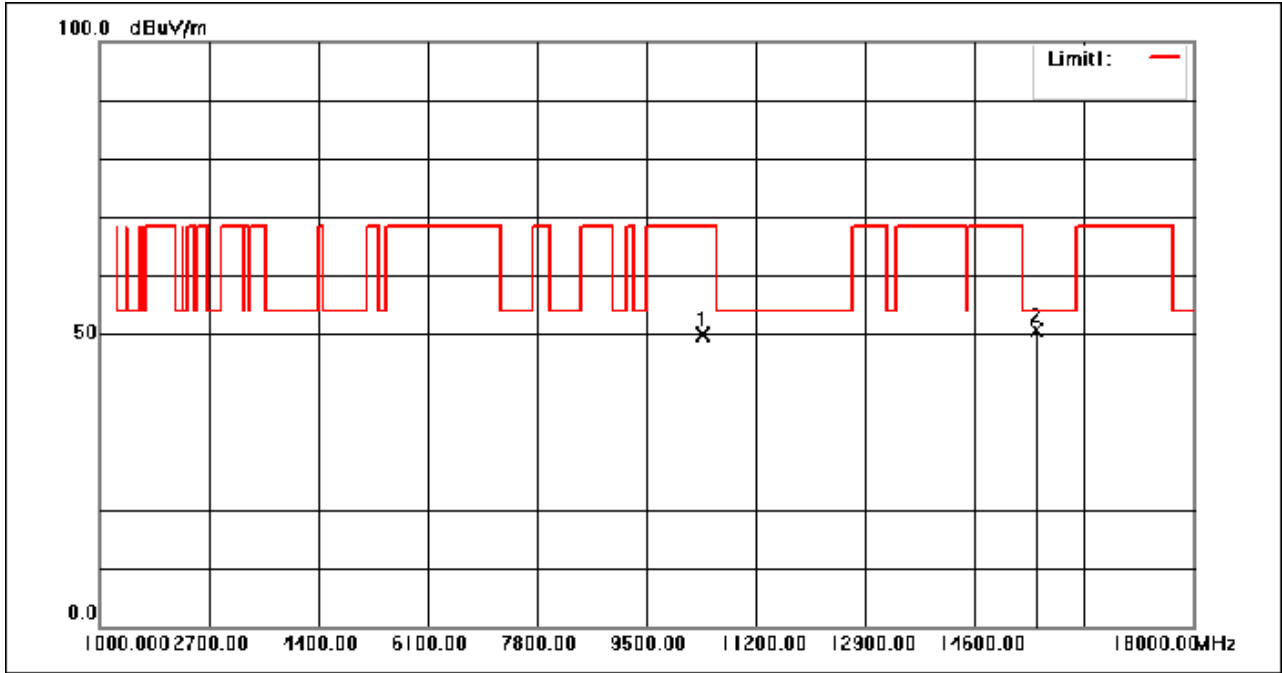
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	49.75	0.20	49.95	68.30	-18.35	peak
2	15570.000	44.90	5.79	50.69	54.00	-3.31	peak

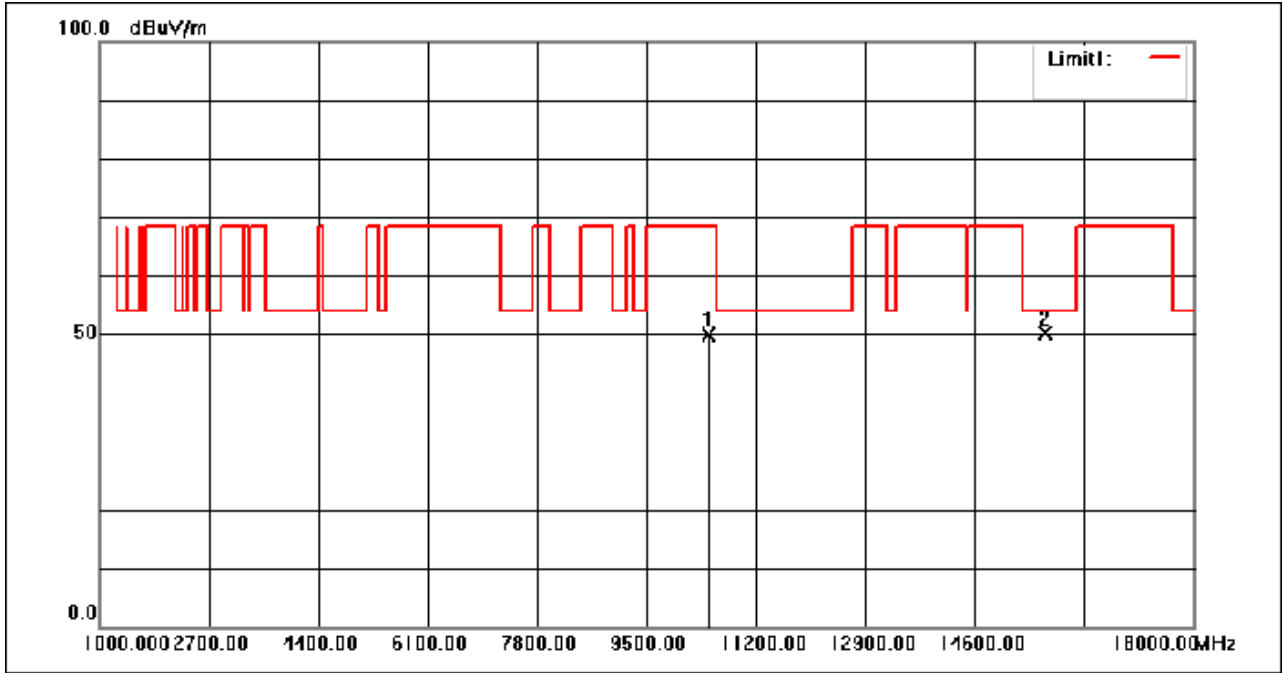


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.40	0.36	49.76	68.30	-18.54	peak
2	15690.000	44.03	6.04	50.07	54.00	-3.93	peak

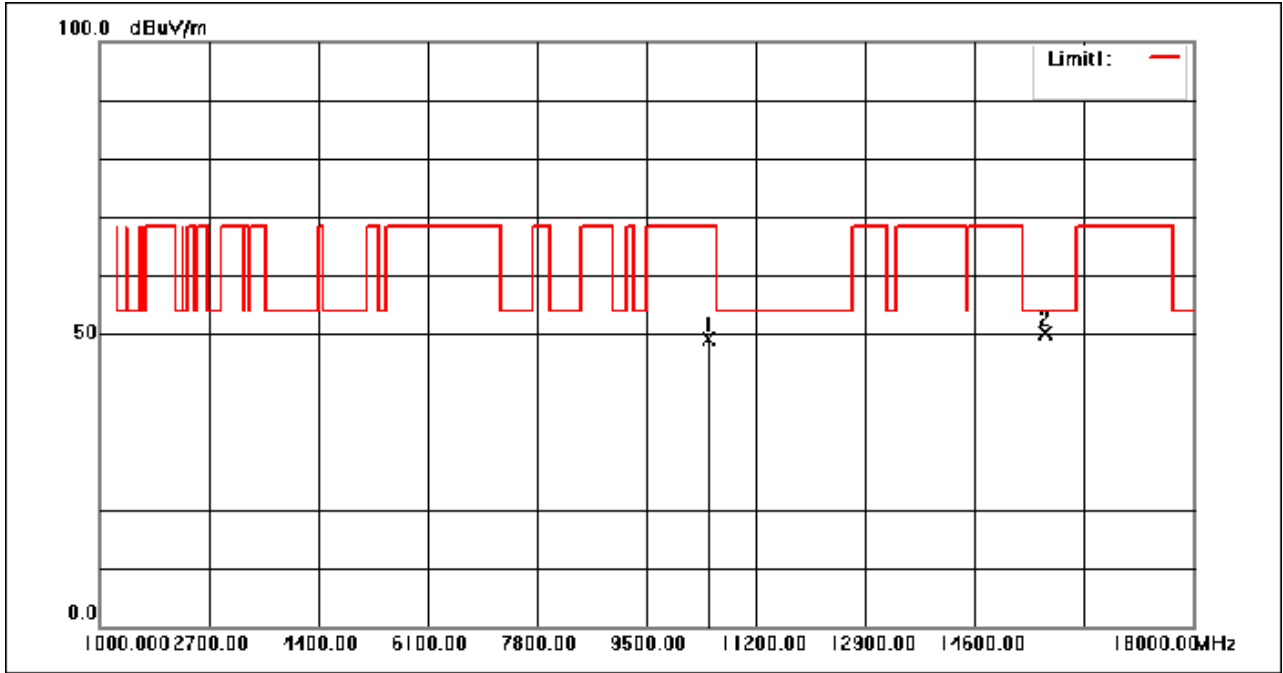


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	48.76	0.36	49.12	68.30	-19.18	peak
2	15690.000	44.21	6.04	50.25	54.00	-3.75	peak

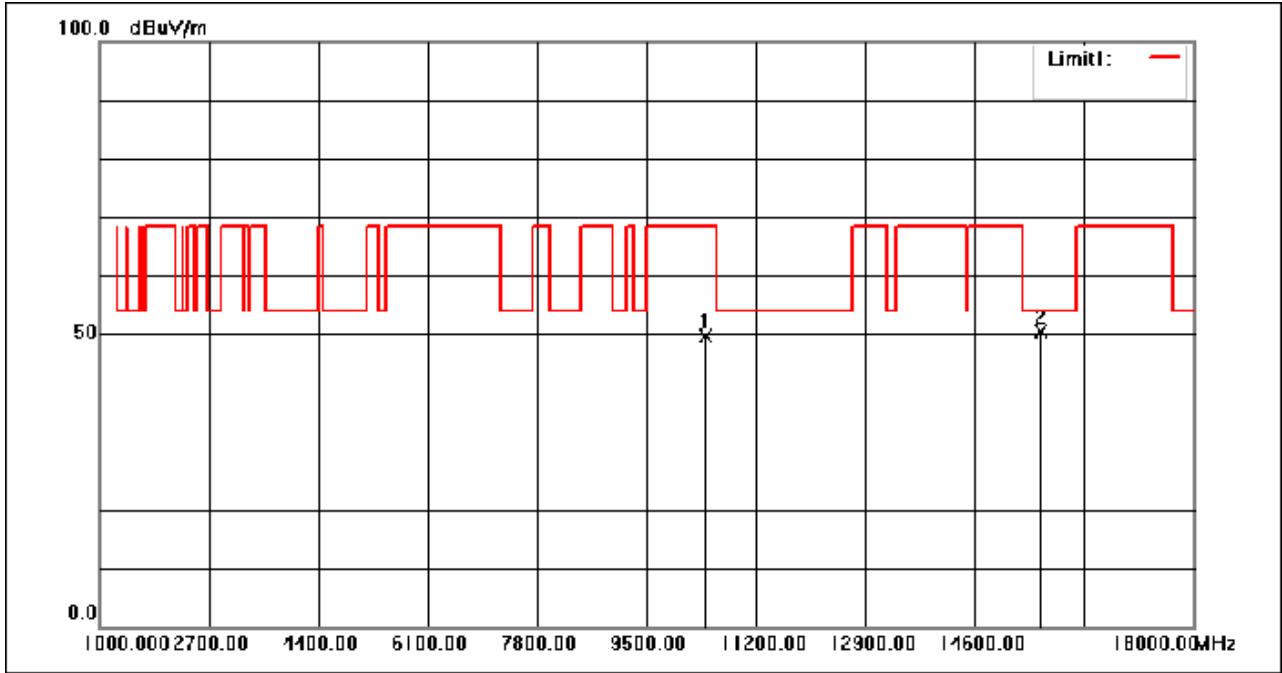


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	49.44	0.28	49.72	68.30	-18.58	peak
2	15630.000	44.36	5.92	50.28	54.00	-3.72	peak

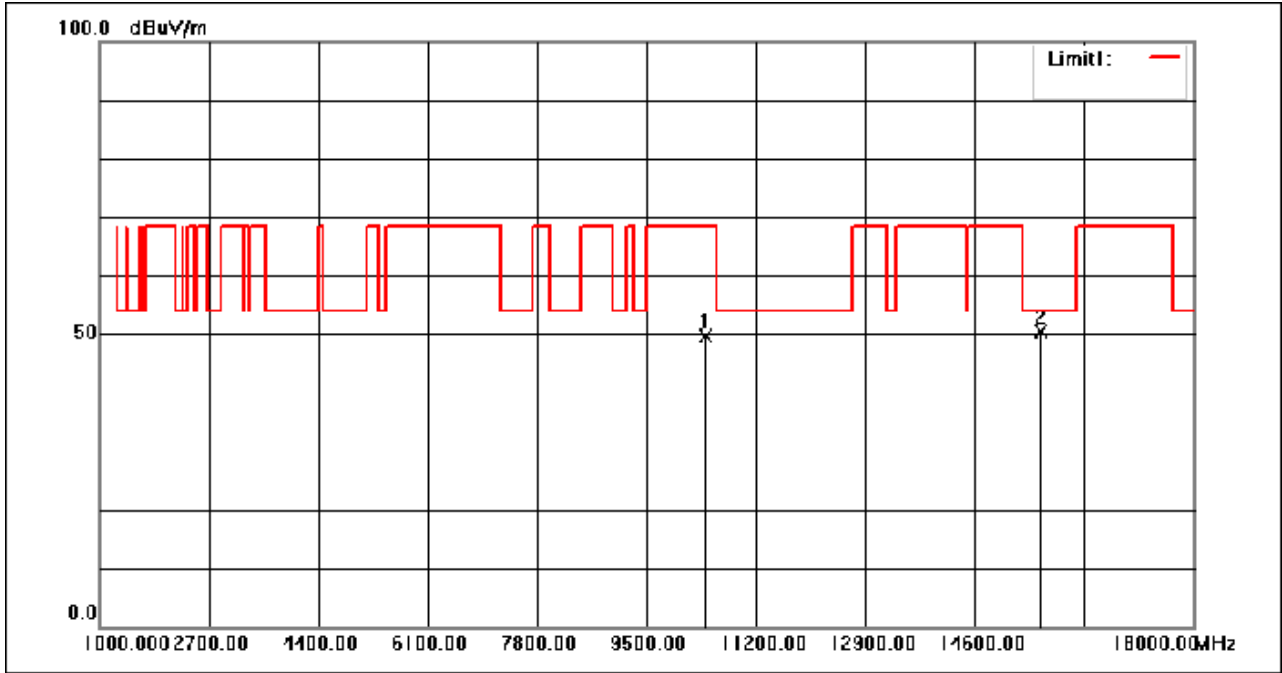


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	49.47	0.28	49.75	68.30	-18.55	peak
2	15630.000	44.49	5.92	50.41	54.00	-3.59	peak

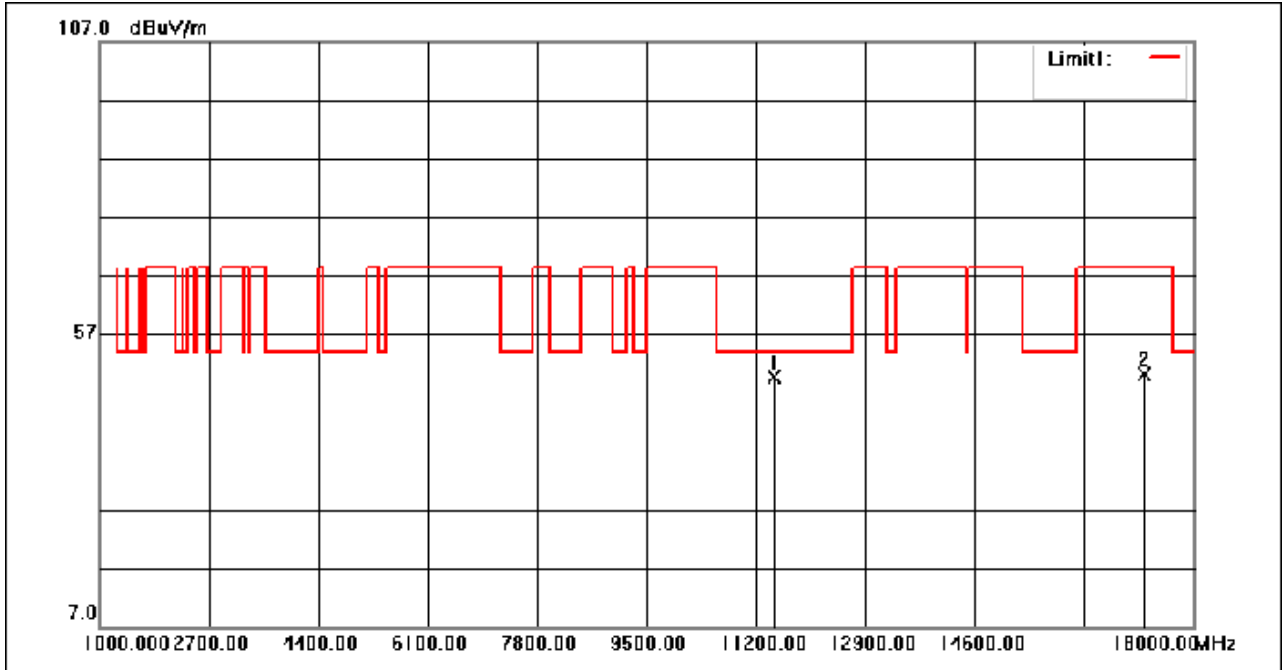


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.76	0.94	49.70	54.00	-4.30	peak
2	17235.000	41.16	9.05	50.21	68.30	-18.09	peak

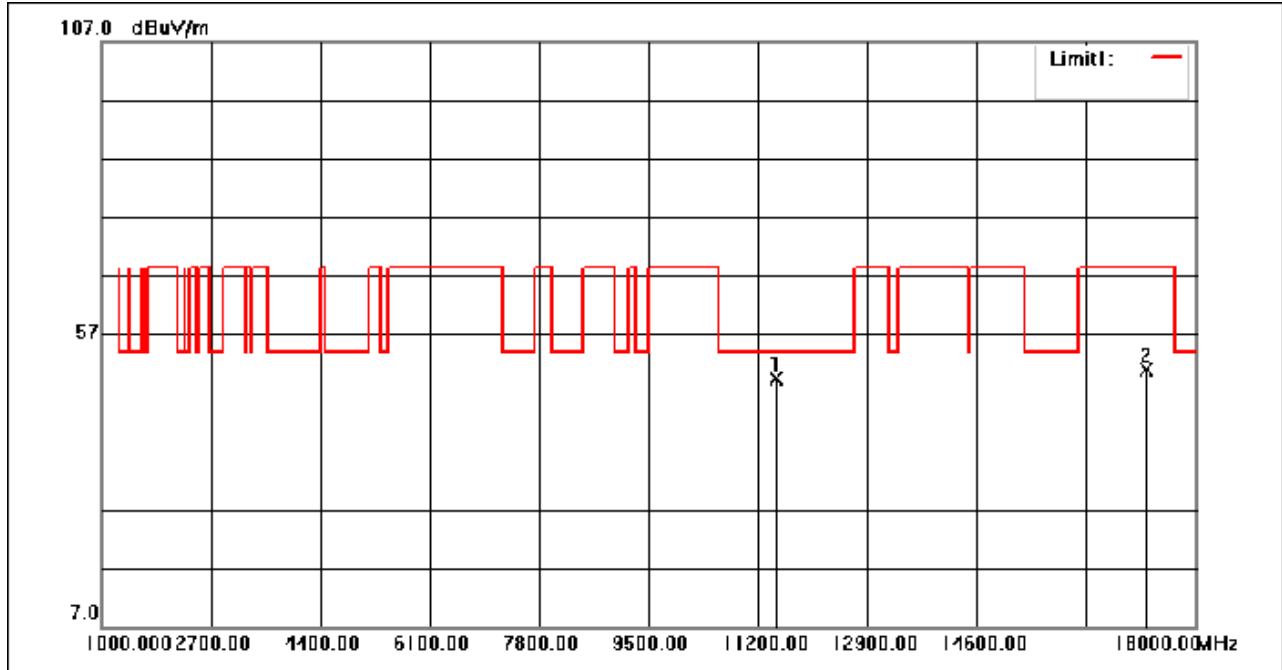


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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.48	0.94	49.42	54.00	-4.58	peak
2	17235.000	41.83	9.05	50.88	68.30	-17.42	peak

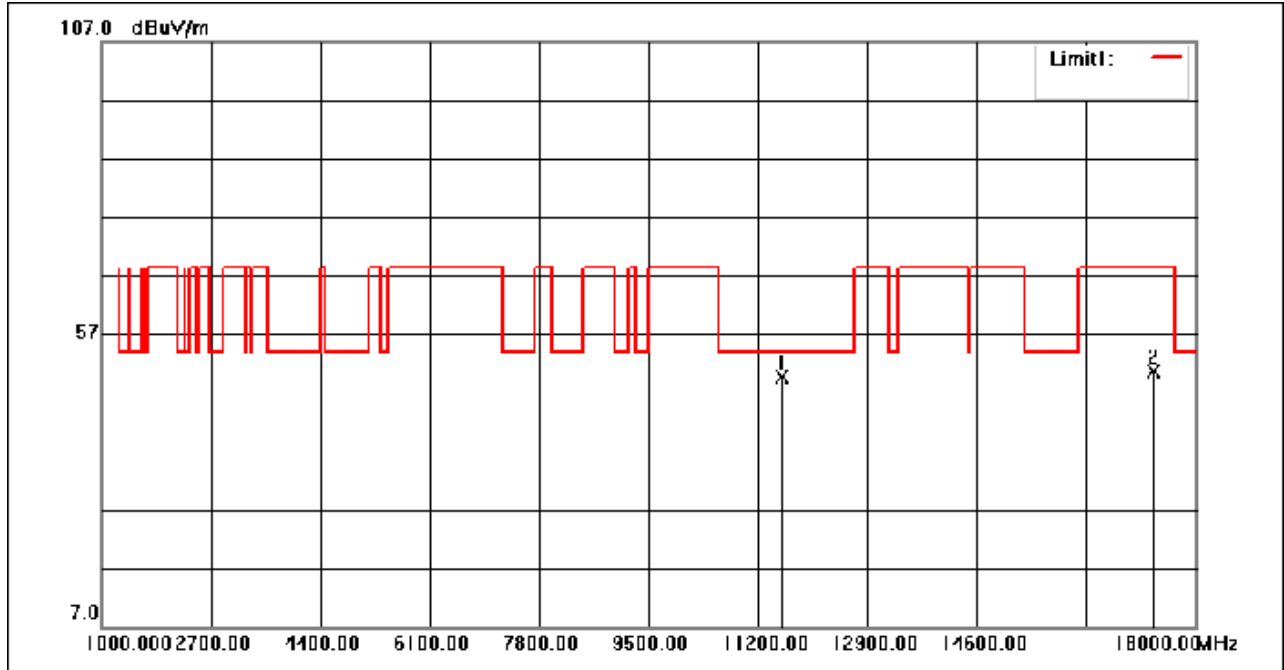


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.37	1.18	49.55	54.00	-4.45	peak
2	17355.000	41.57	8.98	50.55	68.30	-17.75	peak

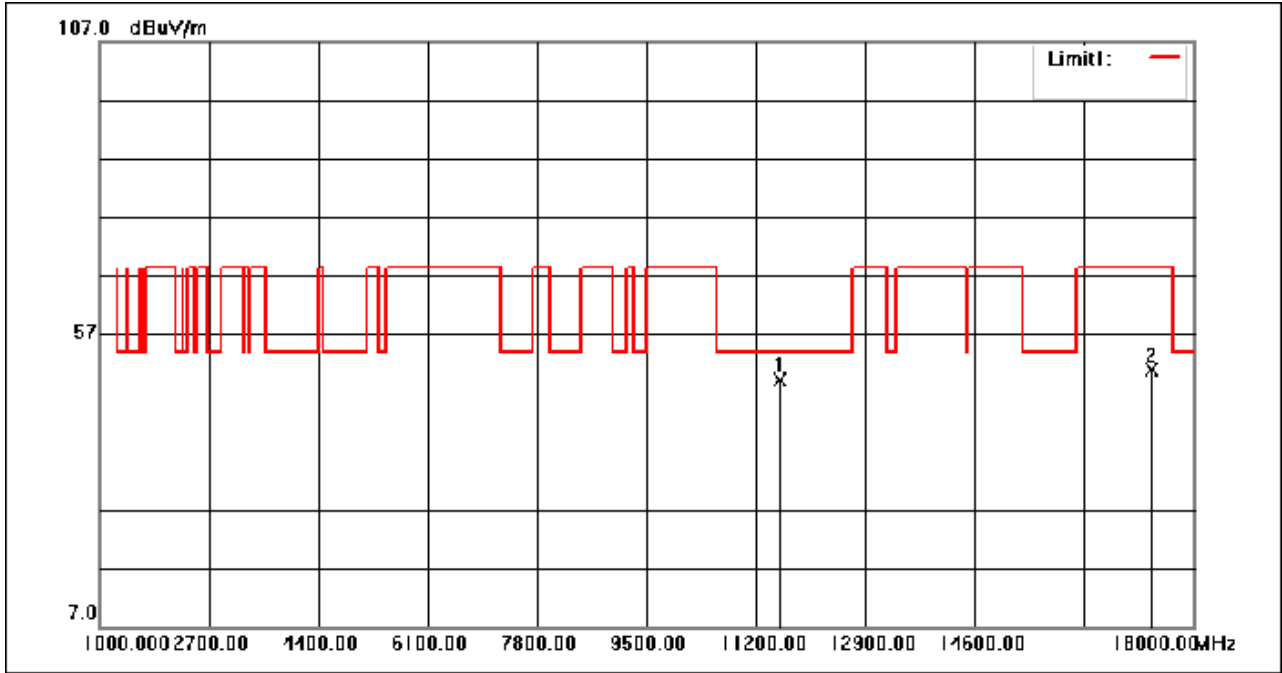


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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.03	1.18	49.21	54.00	-4.79	peak
2	17355.000	41.88	8.98	50.86	68.30	-17.44	peak

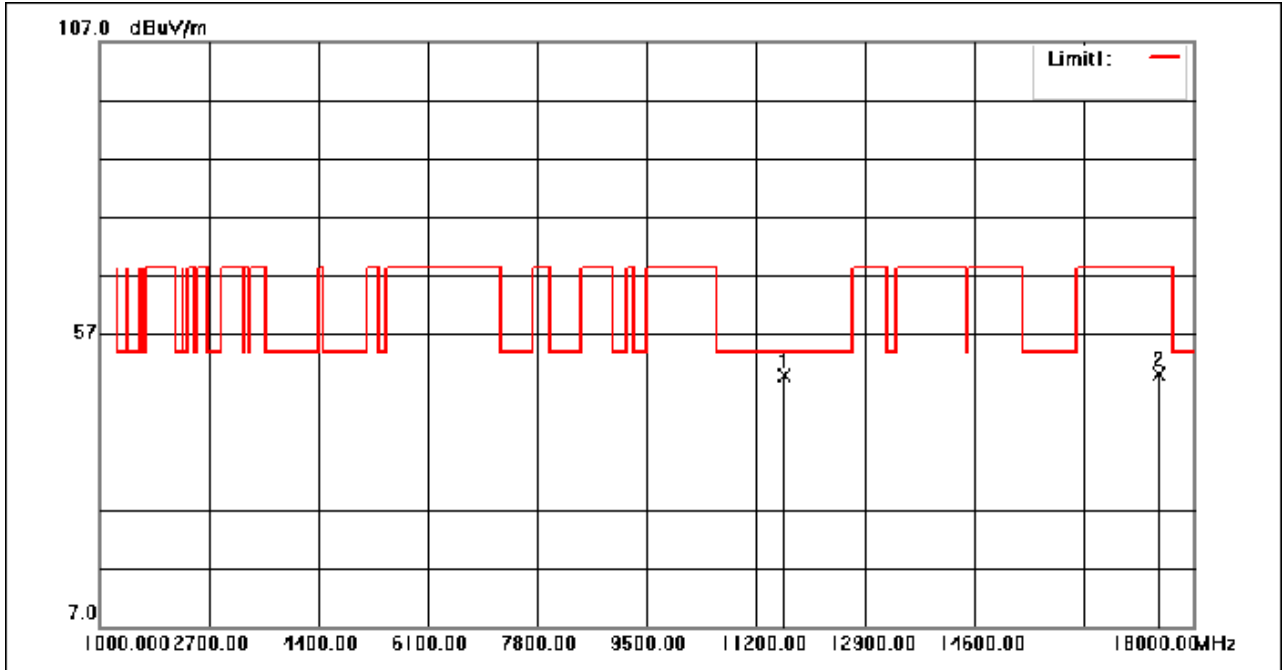


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.32	1.45	49.77	54.00	-4.23	peak
2	17475.000	41.23	8.90	50.13	68.30	-18.17	peak

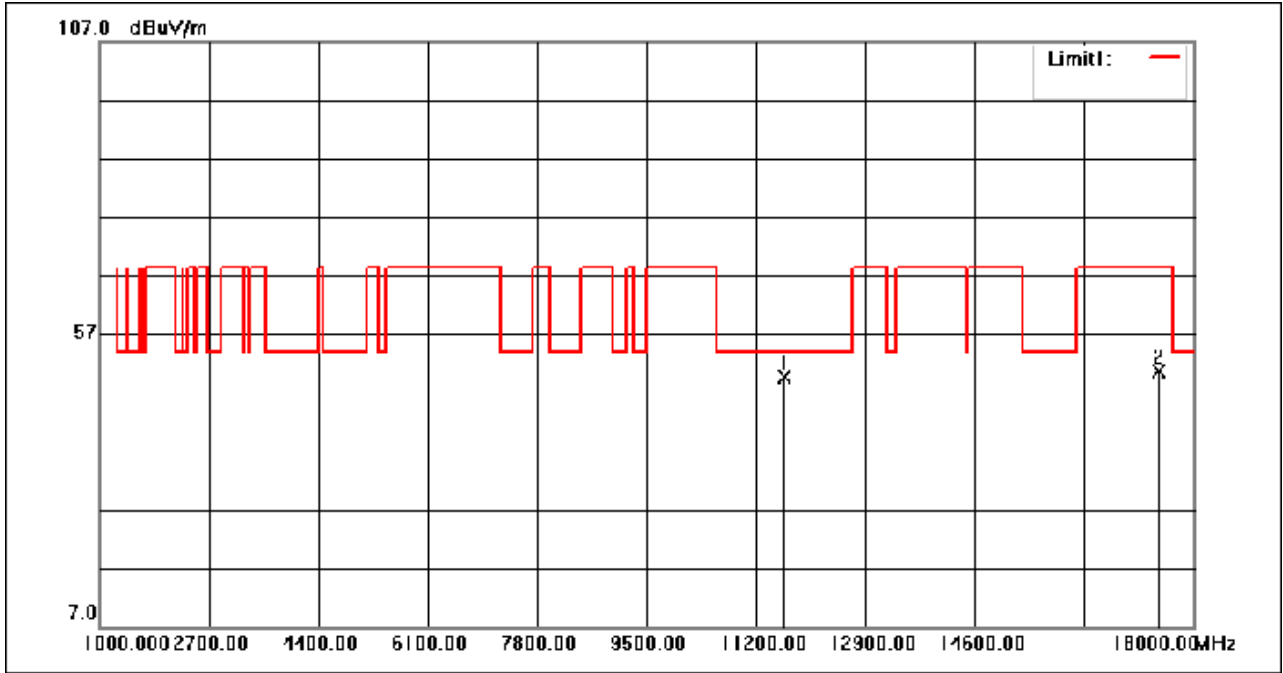


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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.09	1.45	49.54	54.00	-4.46	peak
2	17475.000	41.75	8.90	50.65	68.30	-17.65	peak

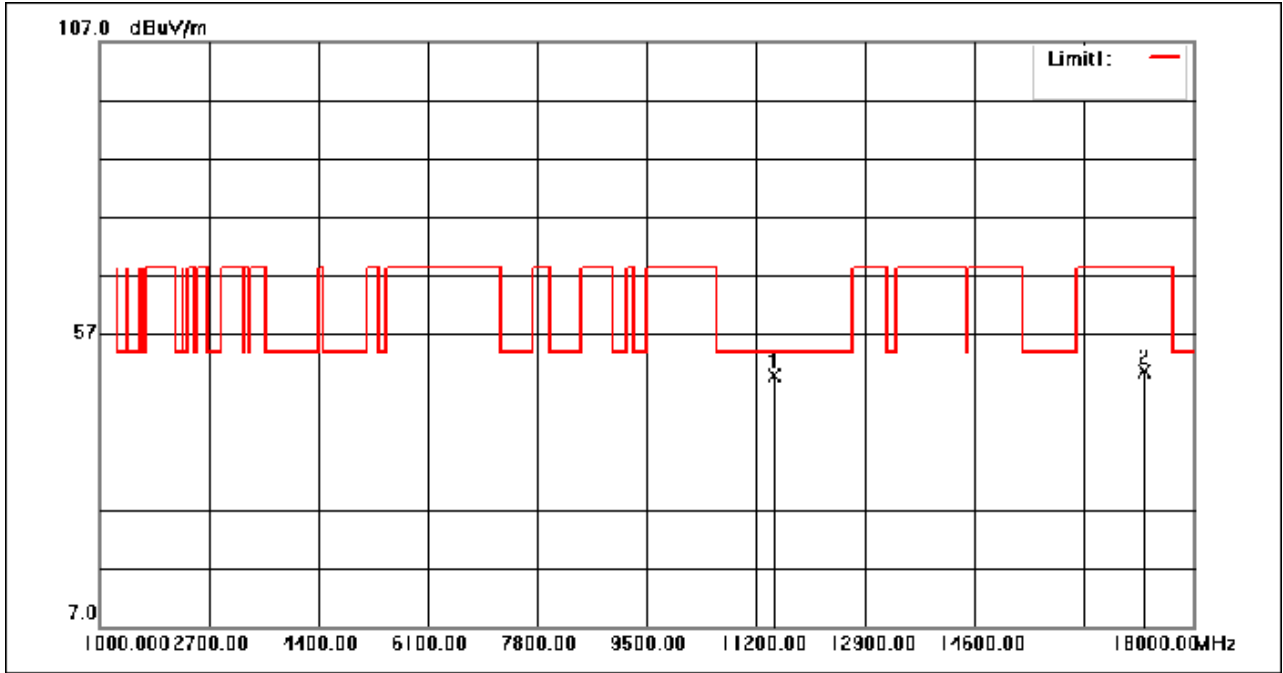


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.85	0.94	49.79	54.00	-4.21	peak
2	17235.000	41.51	9.05	50.56	68.30	-17.74	peak



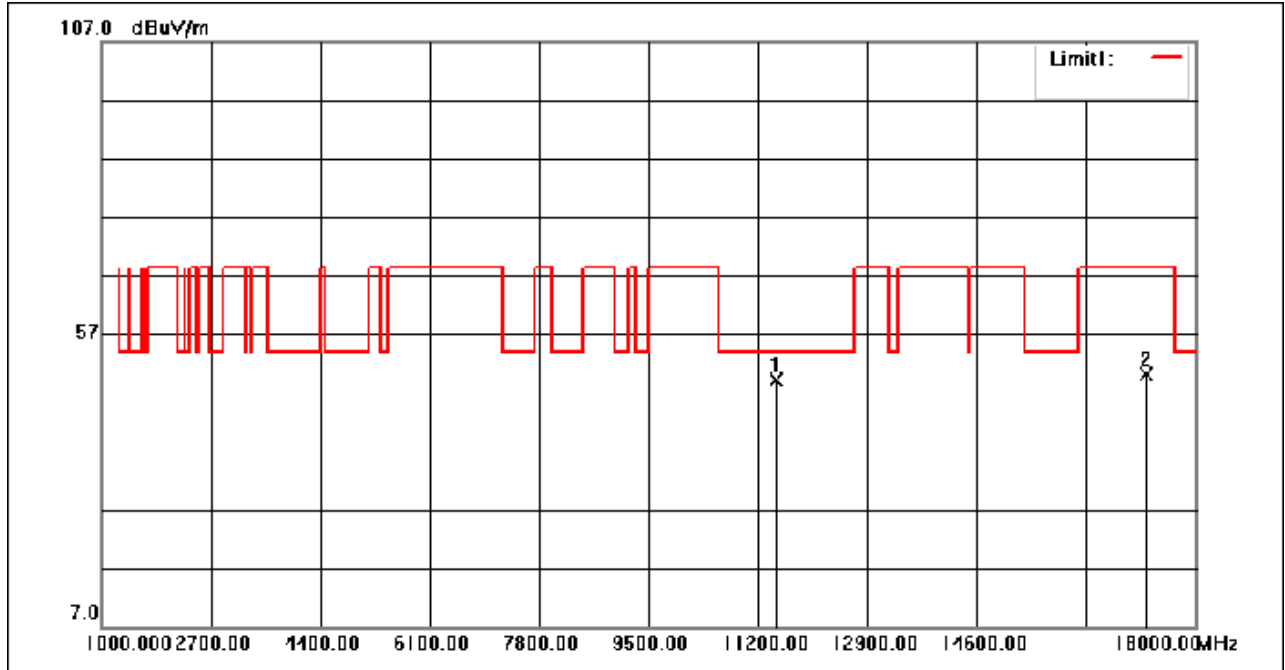
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.07	0.94	49.01	54.00	-4.99	peak
2	17235.000	41.08	9.05	50.13	68.30	-18.17	peak

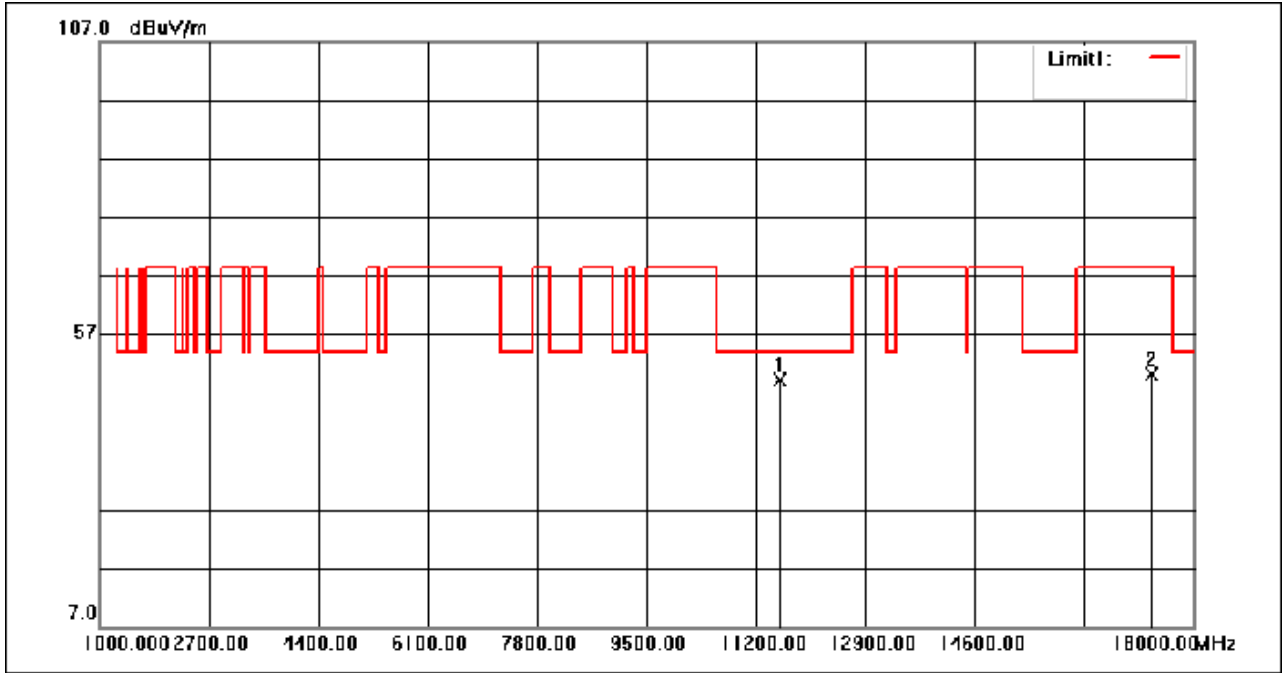


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.03	1.18	49.21	54.00	-4.79	peak
2	17355.000	41.03	8.98	50.01	68.30	-18.29	peak



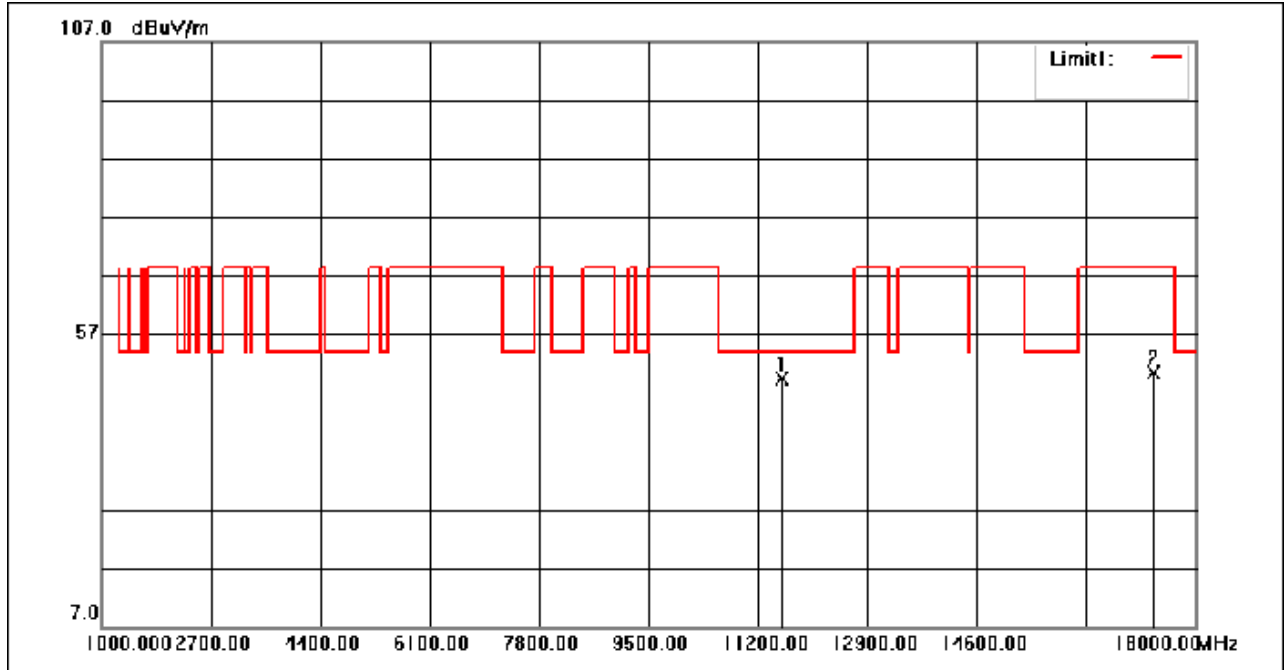
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.22	1.18	49.40	54.00	-4.60	peak
2	17355.000	41.32	8.98	50.30	68.30	-18.00	peak

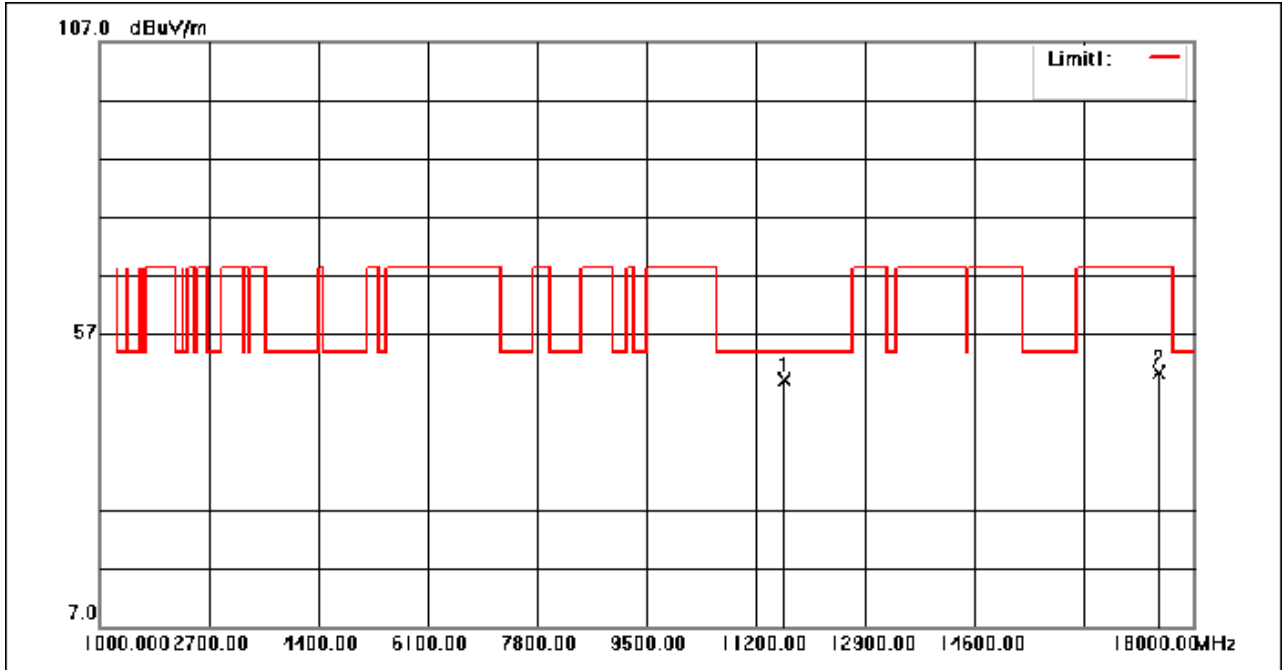


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	47.59	1.45	49.04	54.00	-4.96	peak
2	17475.000	41.42	8.90	50.32	68.30	-17.98	peak

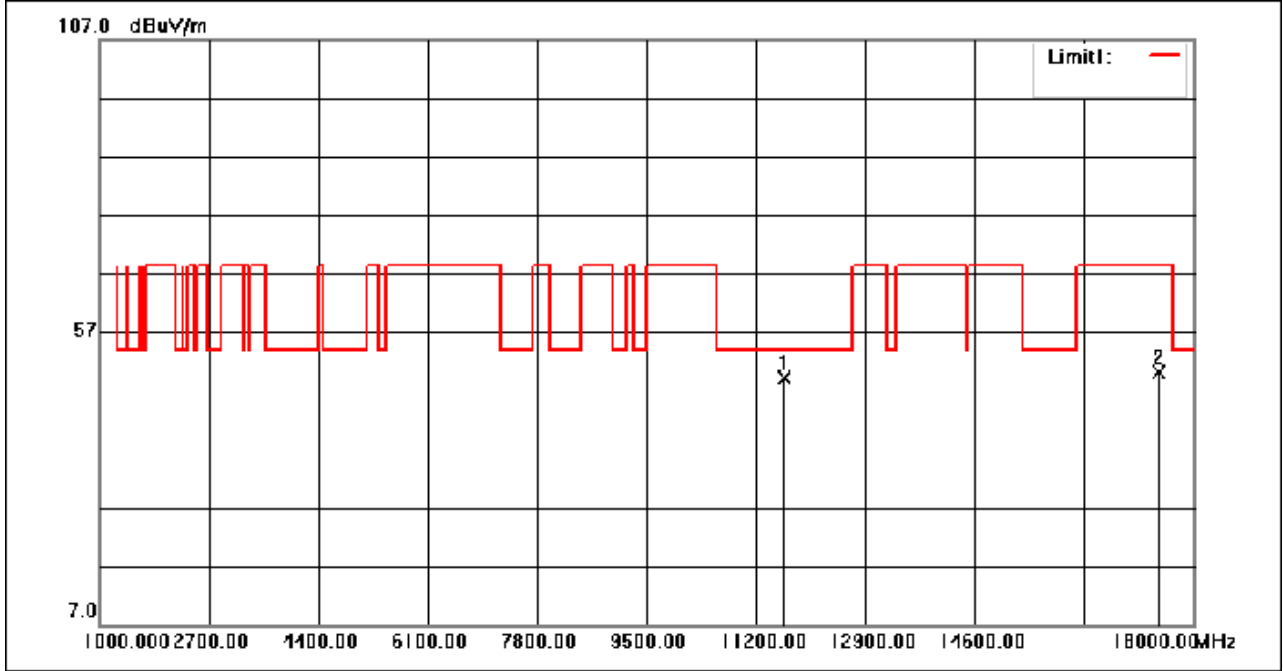


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	47.61	1.45	49.06	54.00	-4.94	peak
2	17475.000	41.17	8.90	50.07	68.30	-18.23	peak

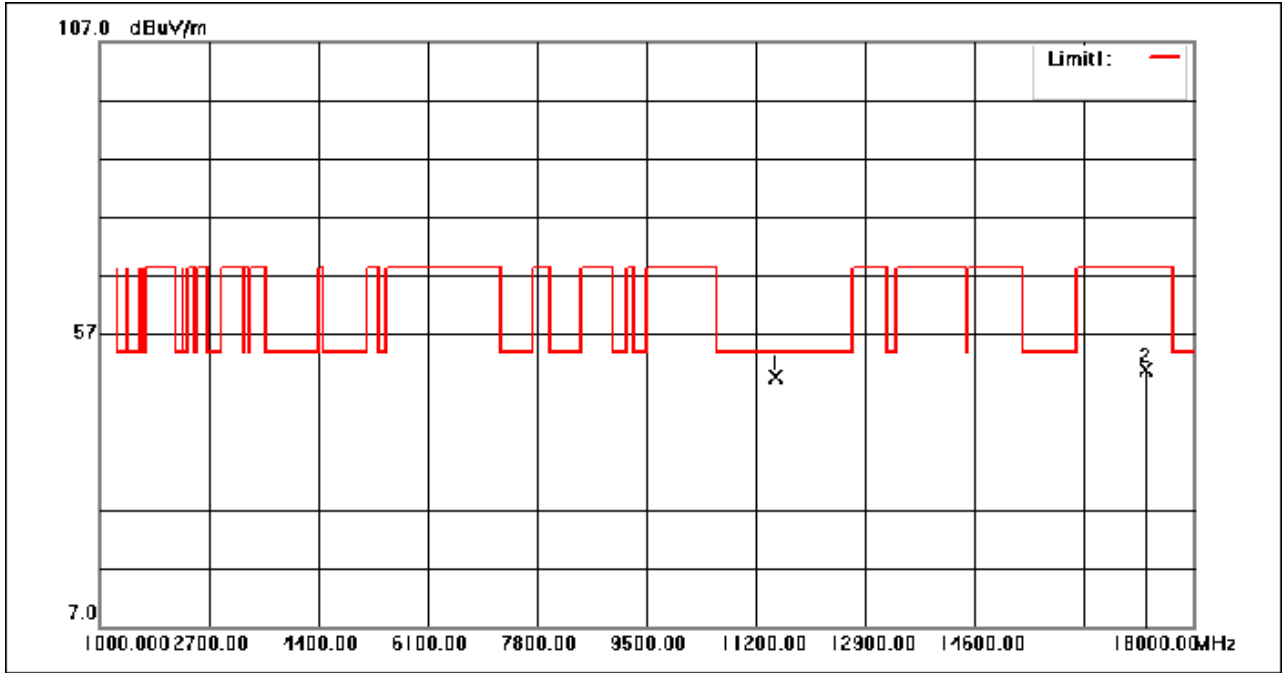


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.52	0.99	49.51	54.00	-4.49	peak
2	17265.000	41.83	9.03	50.86	68.30	-17.44	peak

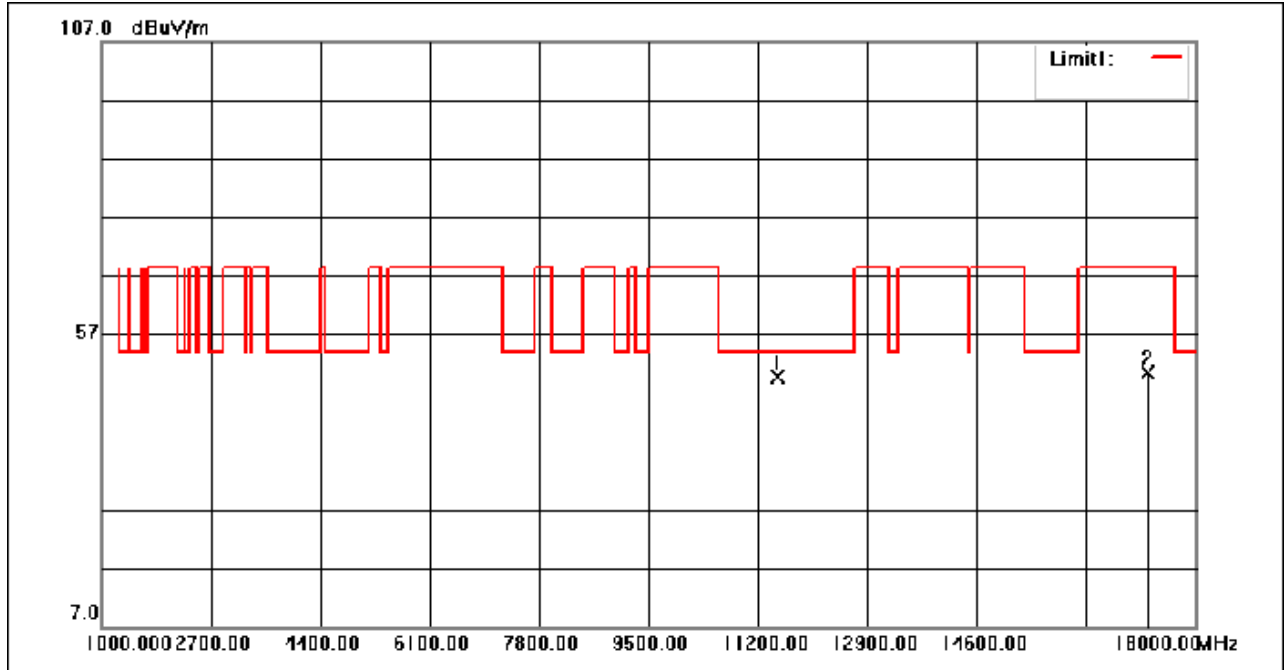


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.75	0.99	49.74	54.00	-4.26	peak
2	17265.000	41.36	9.03	50.39	68.30	-17.91	peak

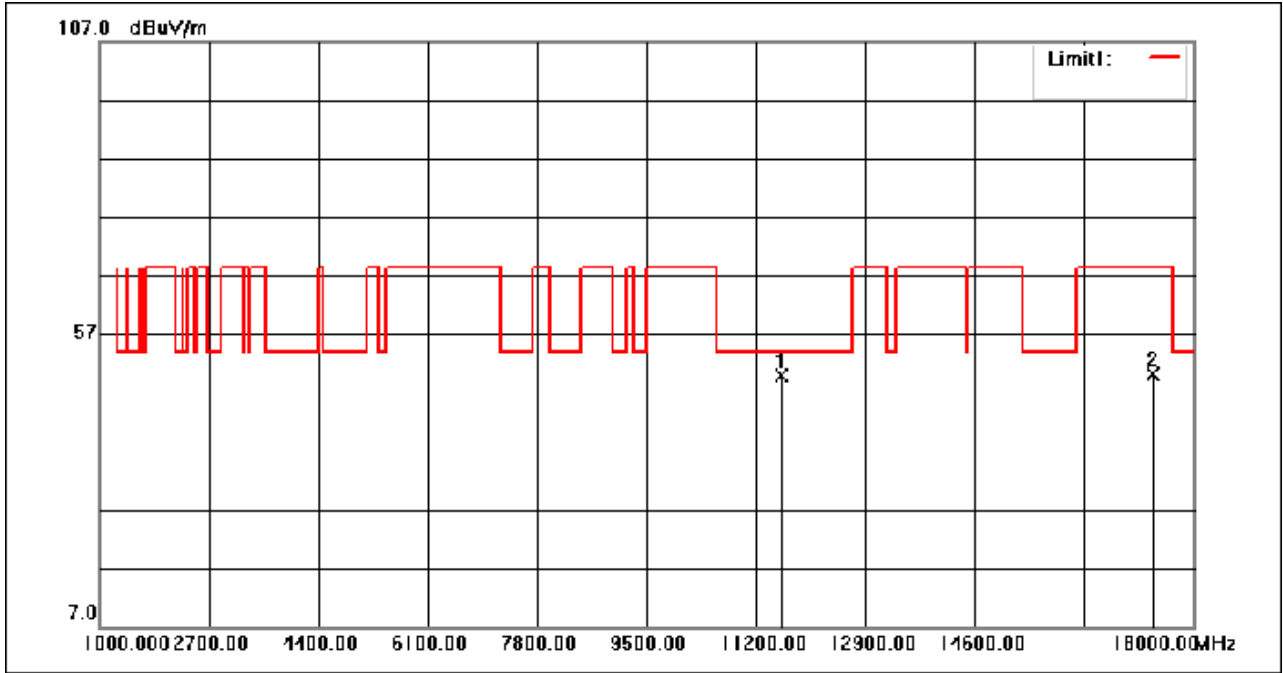


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.69	1.25	49.94	54.00	-4.06	peak
2	17385.000	41.15	8.96	50.11	68.30	-18.19	peak

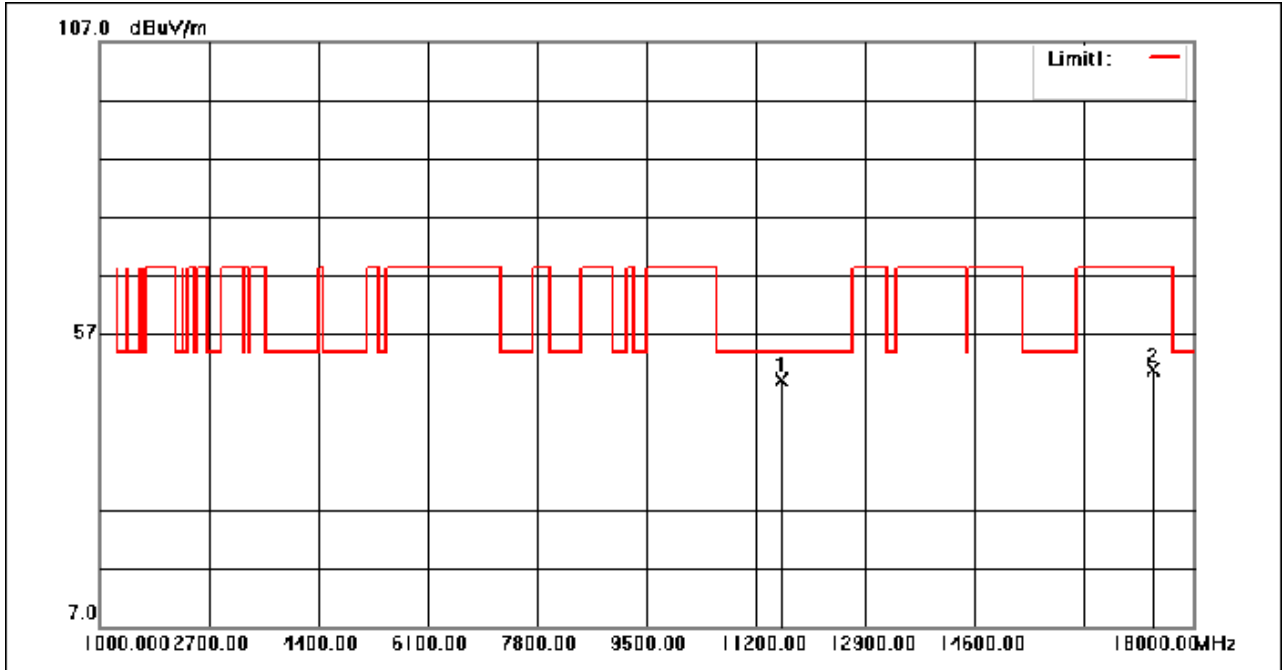


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	47.92	1.25	49.17	54.00	-4.83	peak
2	17385.000	41.82	8.96	50.78	68.30	-17.52	peak

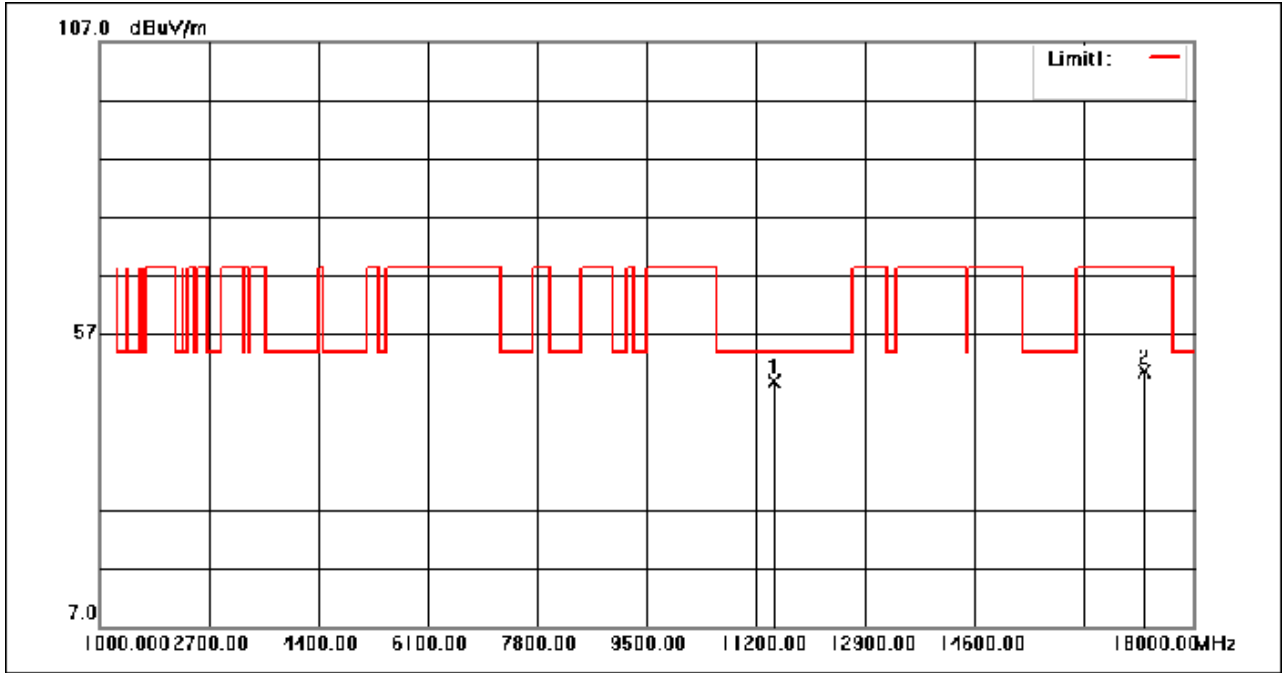


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.06	0.94	49.00	54.00	-5.00	peak
2	17235.000	41.52	9.05	50.57	68.30	-17.73	peak

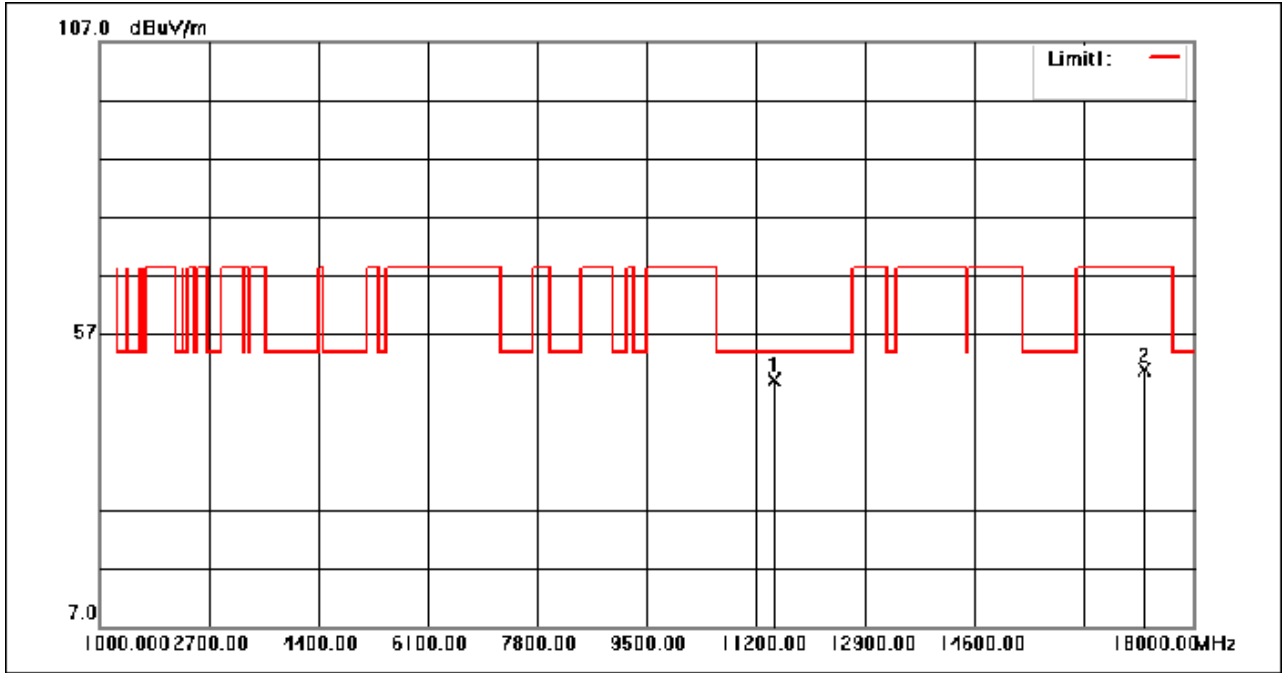


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.19	0.94	49.13	54.00	-4.87	peak
2	17235.000	41.84	9.05	50.89	68.30	-17.41	peak

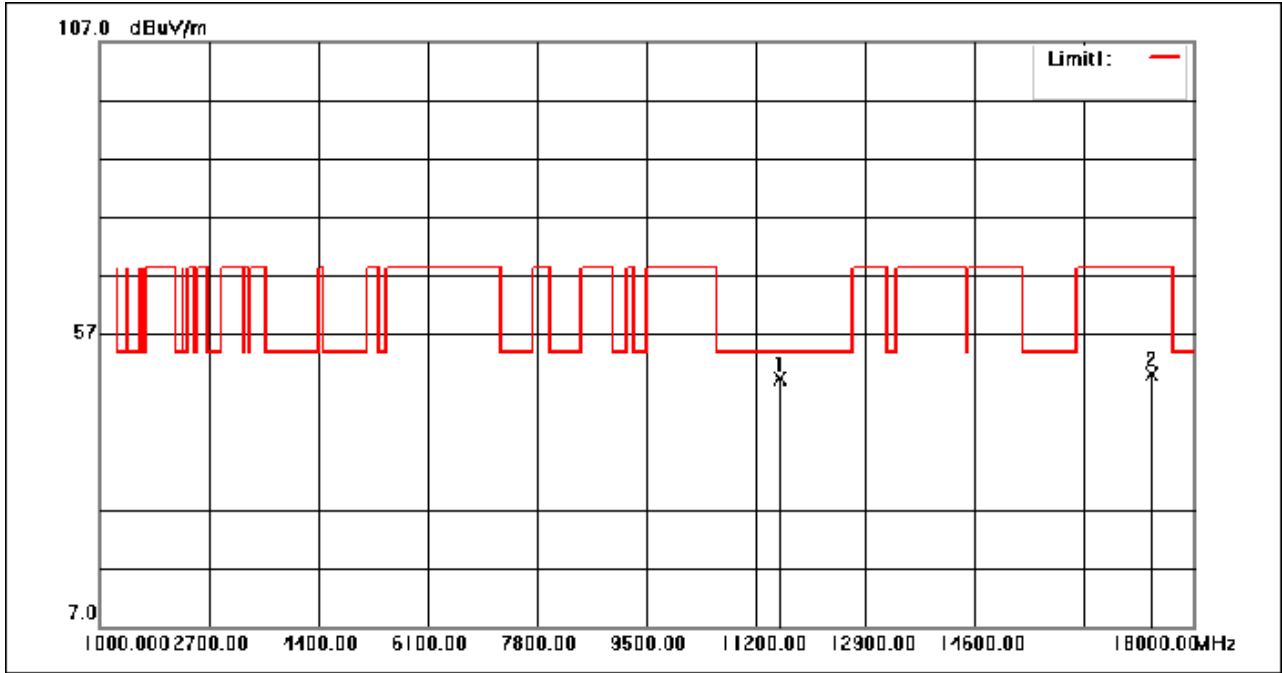


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.22	1.18	49.40	54.00	-4.60	peak
2	17355.000	41.15	8.98	50.13	68.30	-18.17	peak

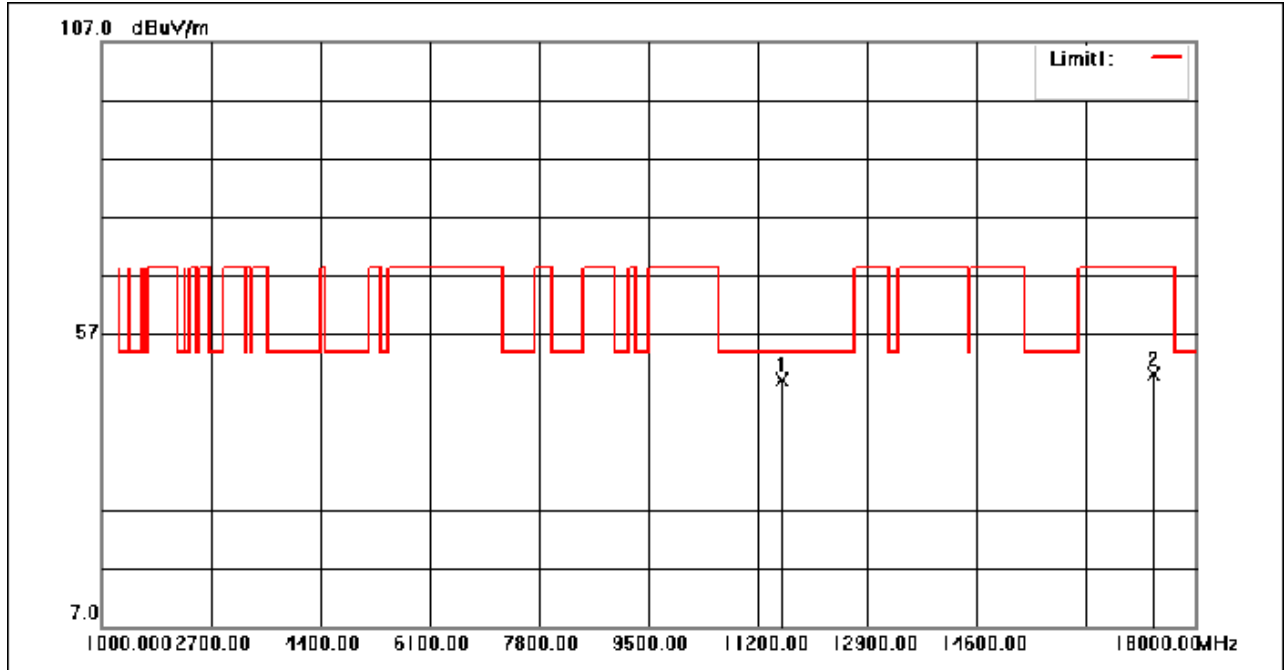


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.06	1.18	49.24	54.00	-4.76	peak
2	17355.000	41.19	8.98	50.17	68.30	-18.13	peak

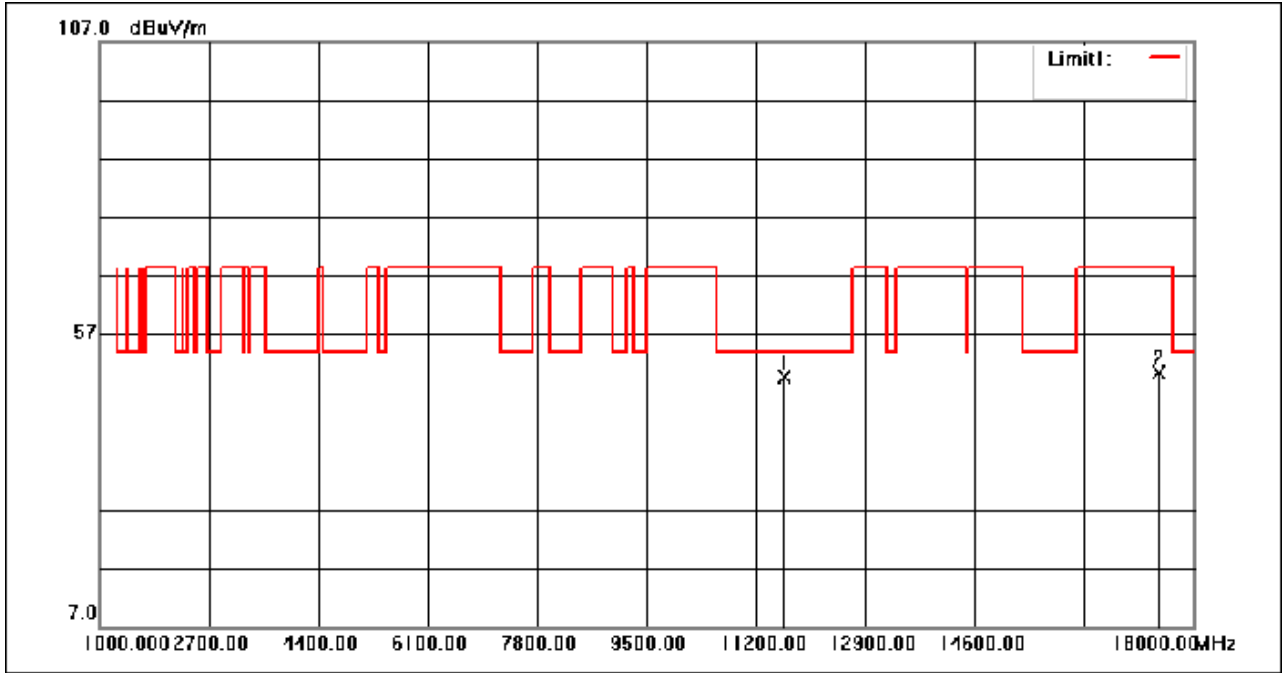


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.22	1.45	49.67	54.00	-4.33	peak
2	17475.000	41.55	8.90	50.45	68.30	-17.85	peak

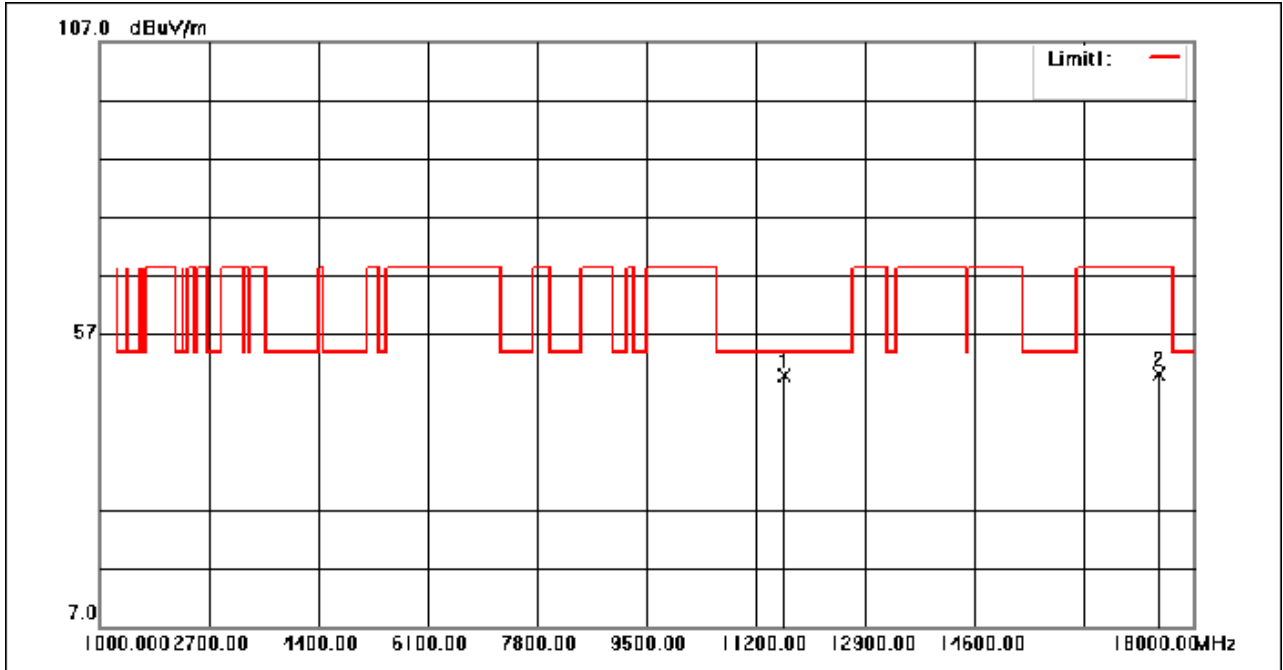


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.51	1.45	49.96	54.00	-4.04	peak
2	17475.000	41.33	8.90	50.23	68.30	-18.07	peak

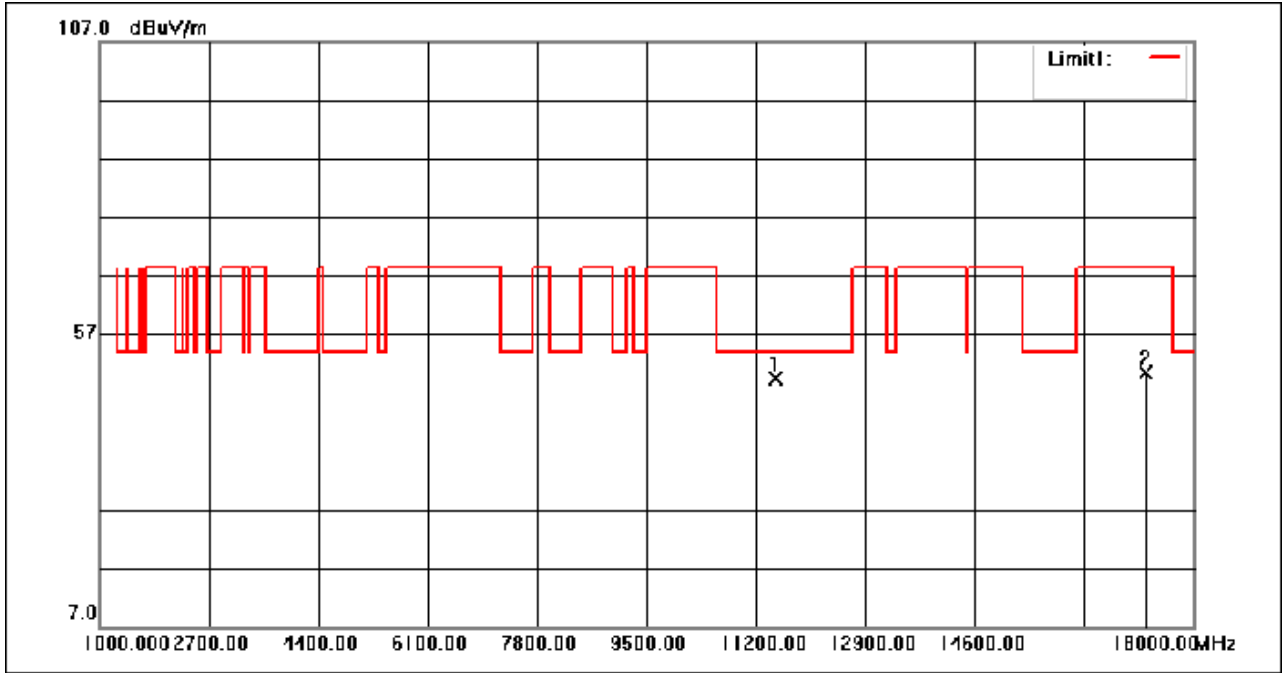


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.27	0.99	49.26	54.00	-4.74	peak
2	17265.000	41.38	9.03	50.41	68.30	-17.89	peak

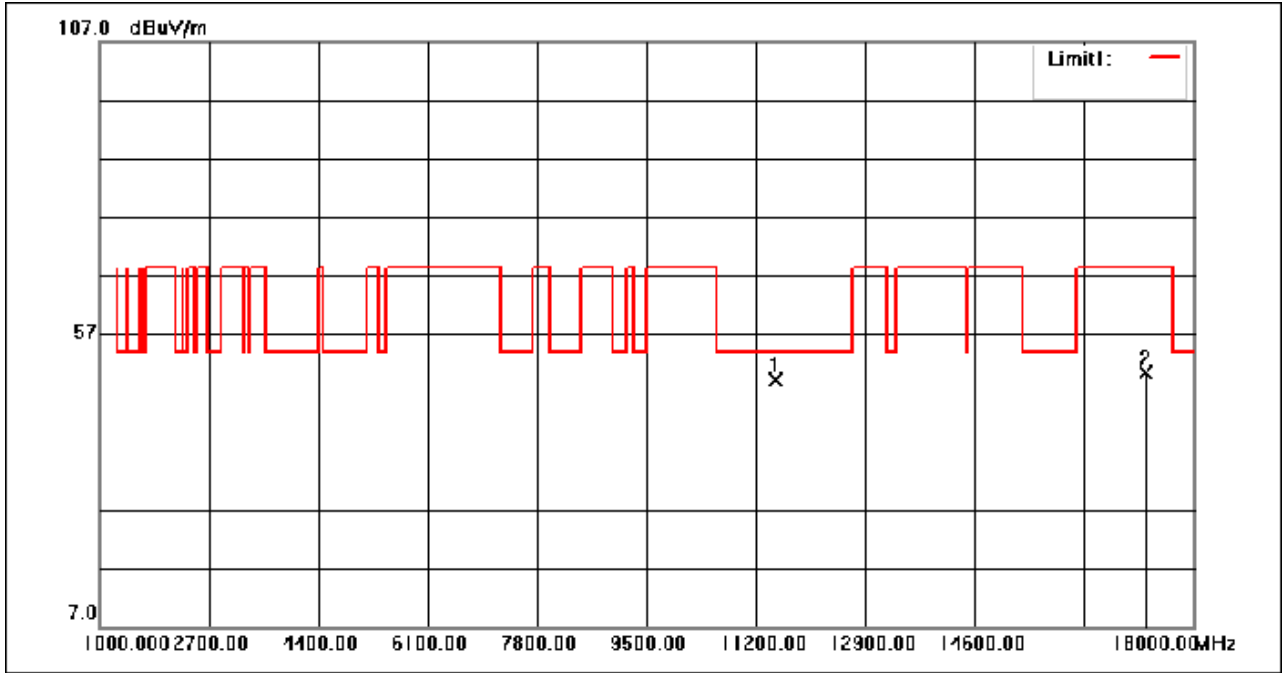


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.06	0.99	49.05	54.00	-4.95	peak
2	17265.000	41.23	9.03	50.26	68.30	-18.04	peak

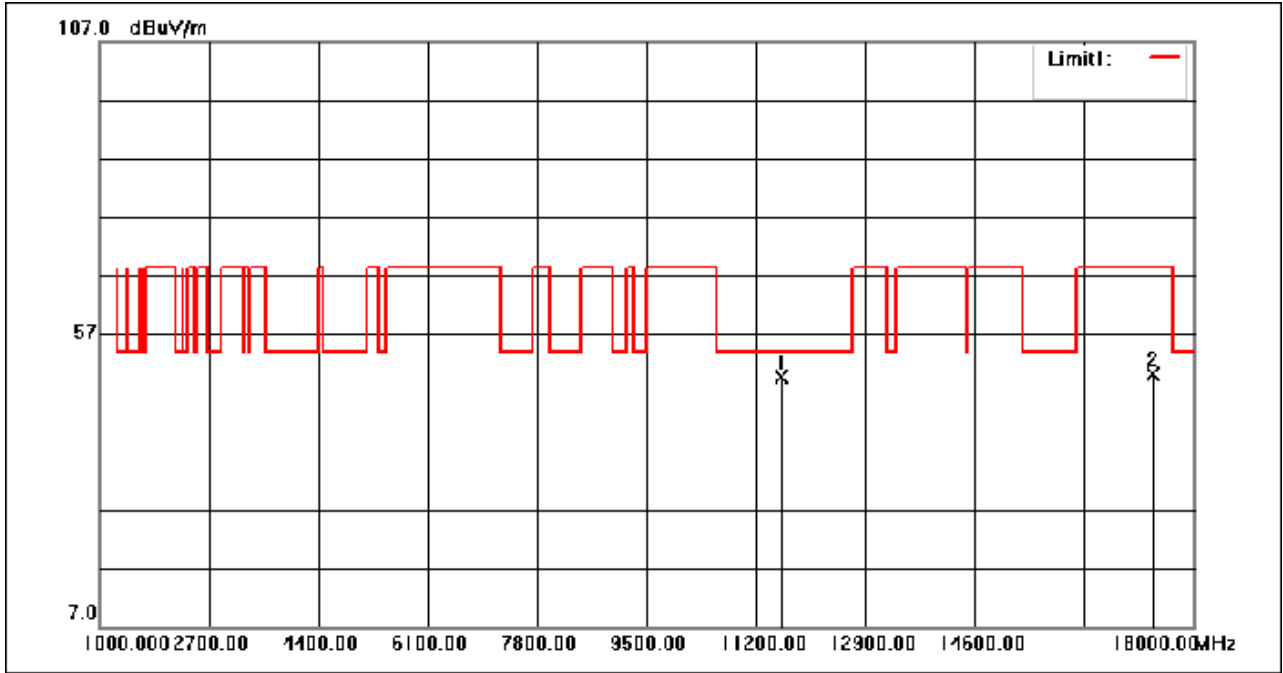


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.43	1.25	49.68	54.00	-4.32	peak
2	17385.000	41.23	8.96	50.19	68.30	-18.11	peak

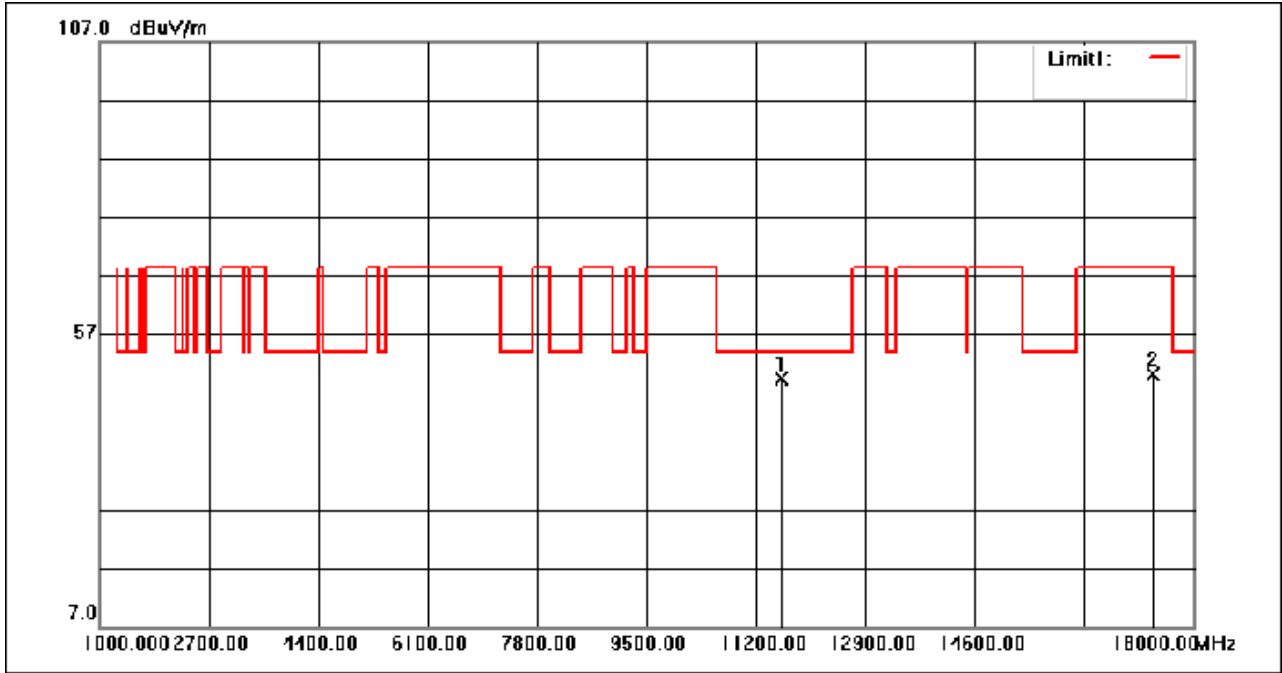


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.18	1.25	49.43	54.00	-4.57	peak
2	17385.000	41.18	8.96	50.14	68.30	-18.16	peak

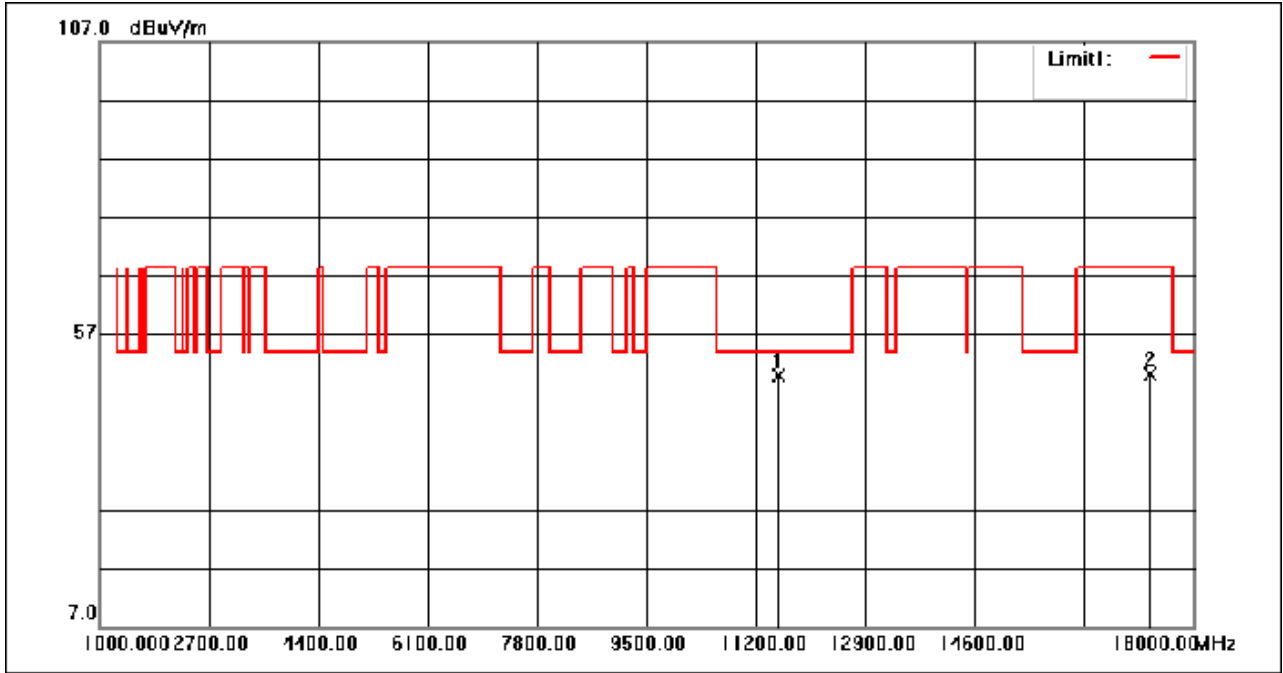


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	48.64	1.12	49.76	54.00	-4.24	peak
2	17325.000	41.05	8.99	50.04	68.30	-18.26	peak

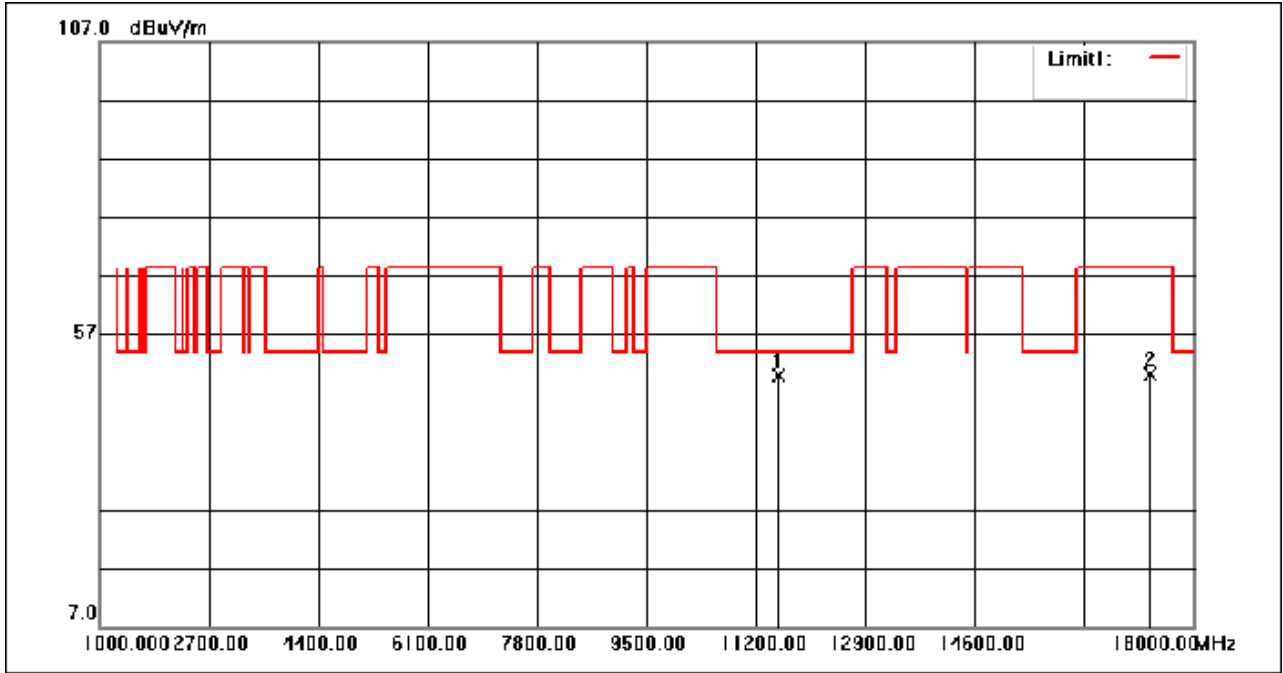


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	48.72	1.12	49.84	54.00	-4.16	peak
2	17325.000	41.02	8.99	50.01	68.30	-18.29	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

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: 24.5 °C Humidity: 42.2 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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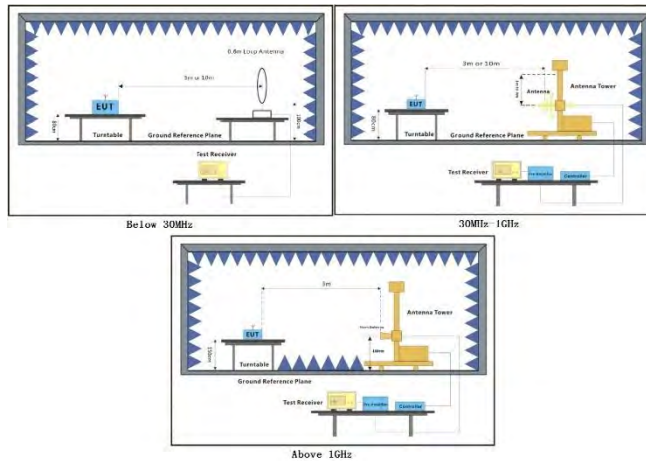


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Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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

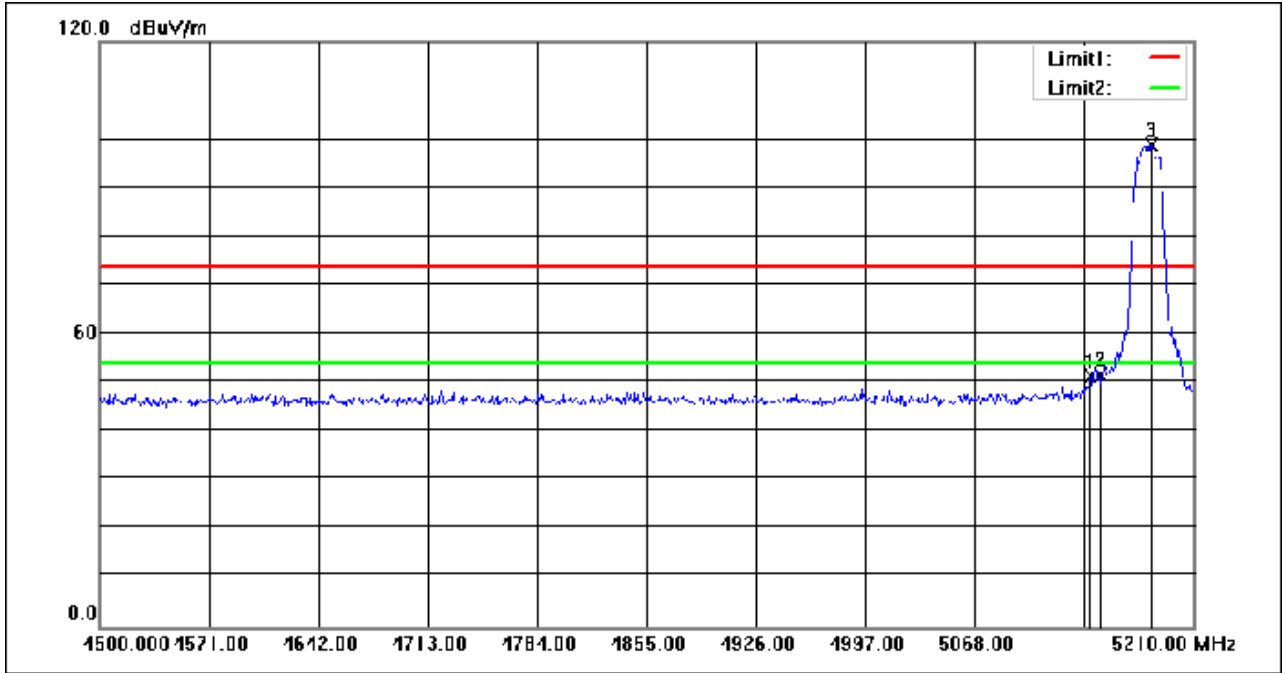


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



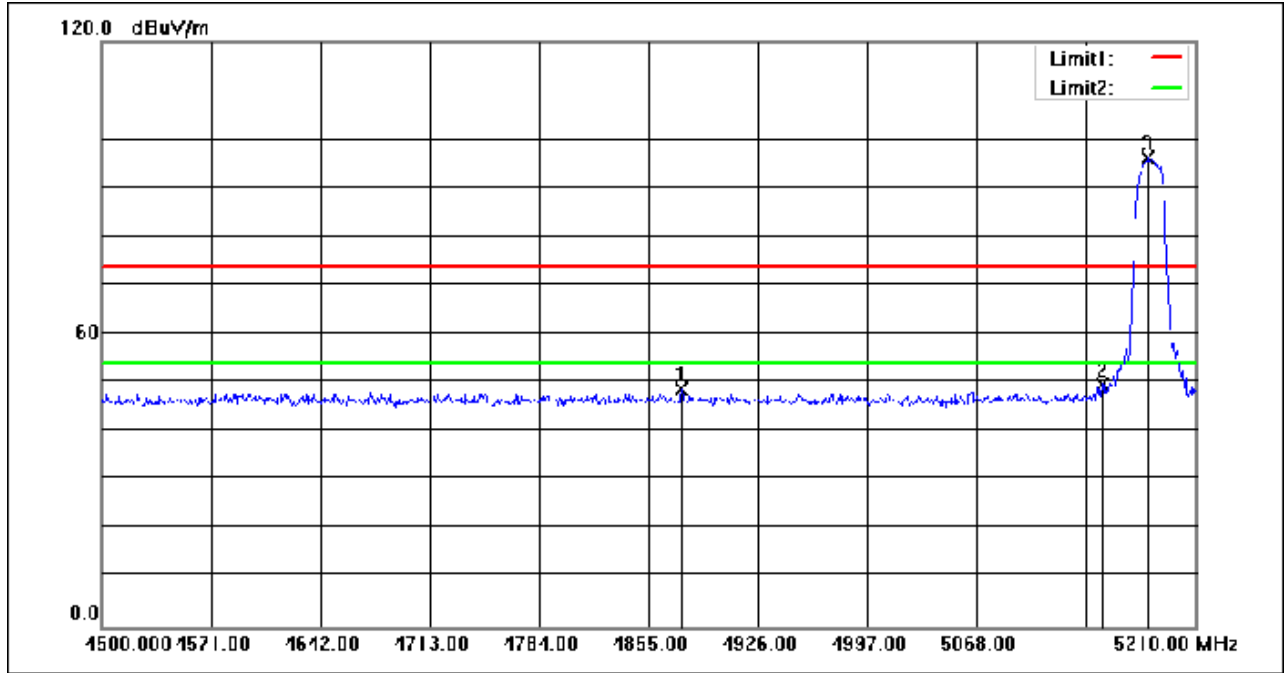
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.260	59.40	-7.86	51.54	74.00	-22.46	peak
2	5150.000	59.72	-7.84	51.88	74.00	-22.12	peak
3	5183.020	106.71	-7.76	98.95	74.00	24.95	peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4876.300	57.24	-8.61	48.63	74.00	-25.37	peak
2	5150.000	57.61	-7.84	49.77	74.00	-24.23	peak
3	5179.470	104.06	-7.77	96.29	74.00	22.29	peak

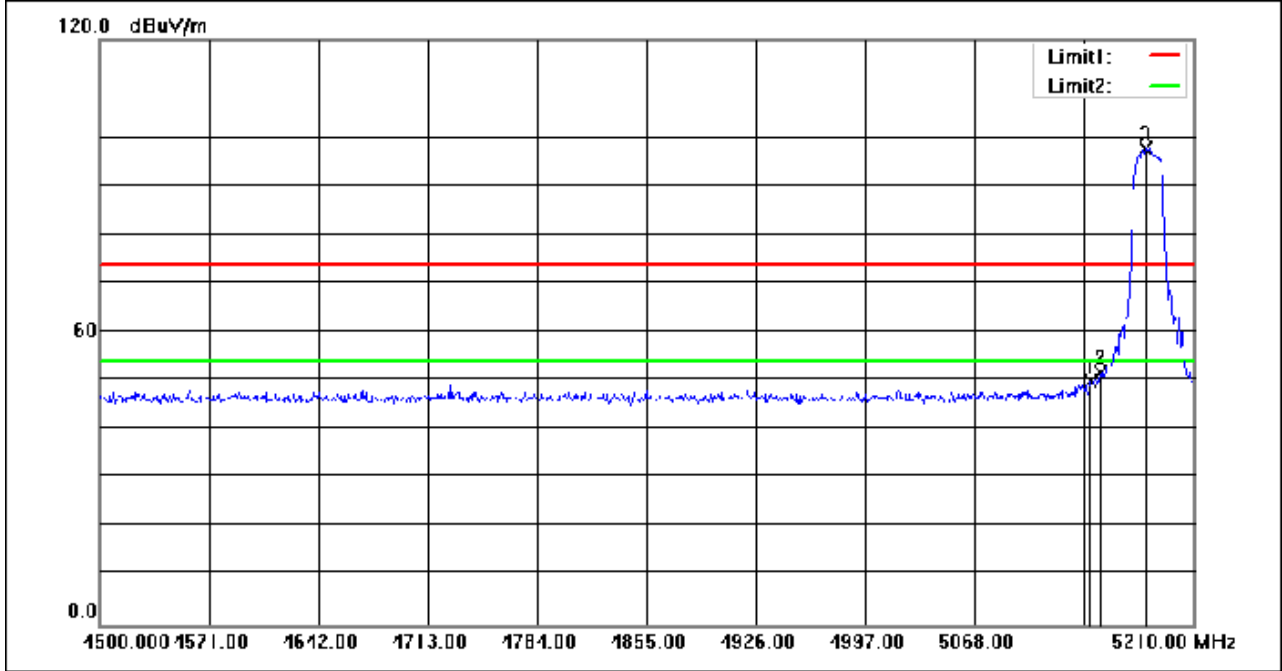


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



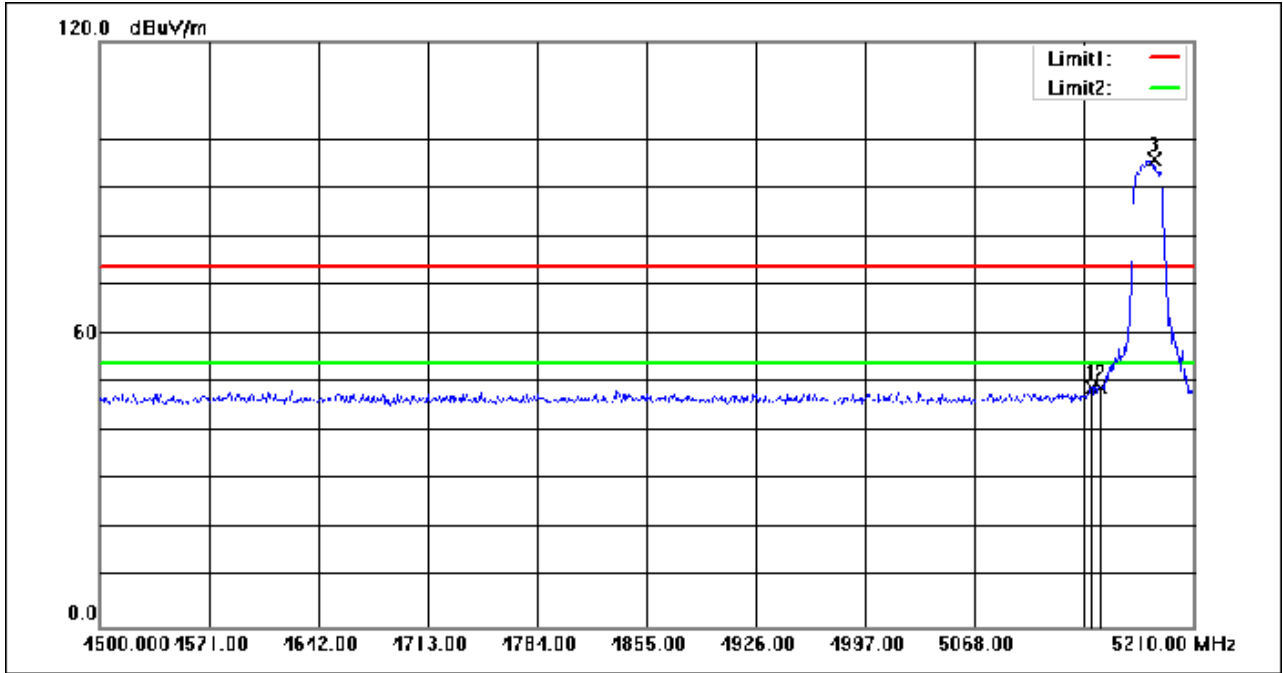
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.260	57.77	-7.86	49.91	74.00	-24.09	peak
2	5150.000	59.50	-7.84	51.66	74.00	-22.34	peak
3	5178.760	105.57	-7.78	97.79	74.00	23.79	peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.970	56.81	-7.86	48.95	74.00	-25.05	peak
2	5150.000	57.03	-7.84	49.19	74.00	-24.81	peak
3	5184.440	103.49	-7.76	95.73	74.00	21.73	peak

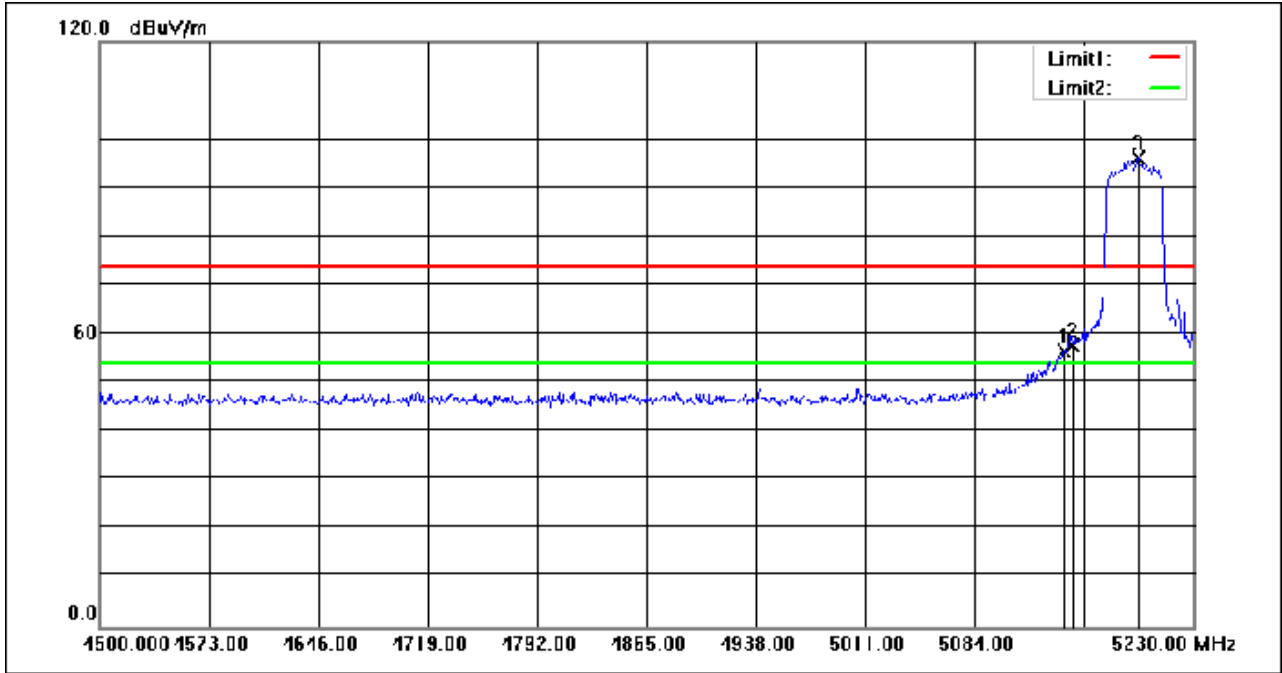


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	64.39	-7.86	56.53	74.00	-17.47	peak
2	5150.000	65.52	-7.84	57.68	74.00	-16.32	peak
3	5193.500	103.79	-7.75	96.04	74.00	22.04	peak

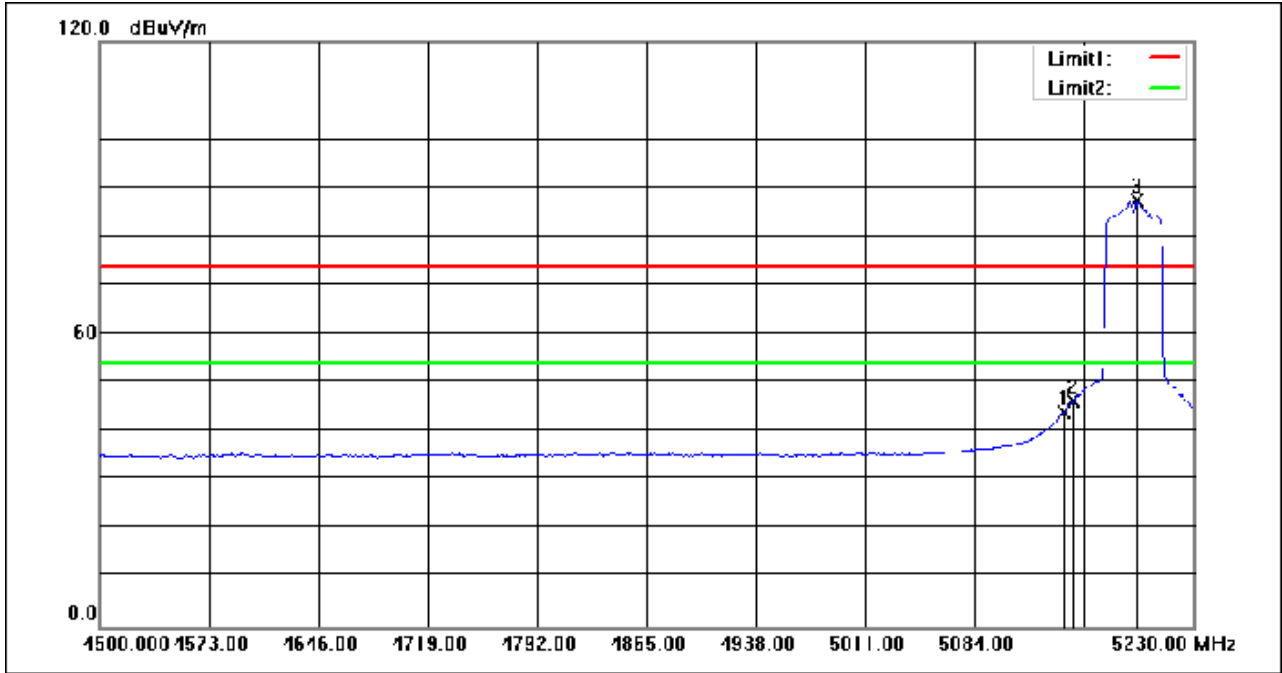


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	51.95	-7.86	44.09	54.00	-9.91	AVG
2	5150.000	54.24	-7.84	46.40	54.00	-7.60	AVG
3	5192.040	95.25	-7.75	87.50	54.00	33.50	AVG

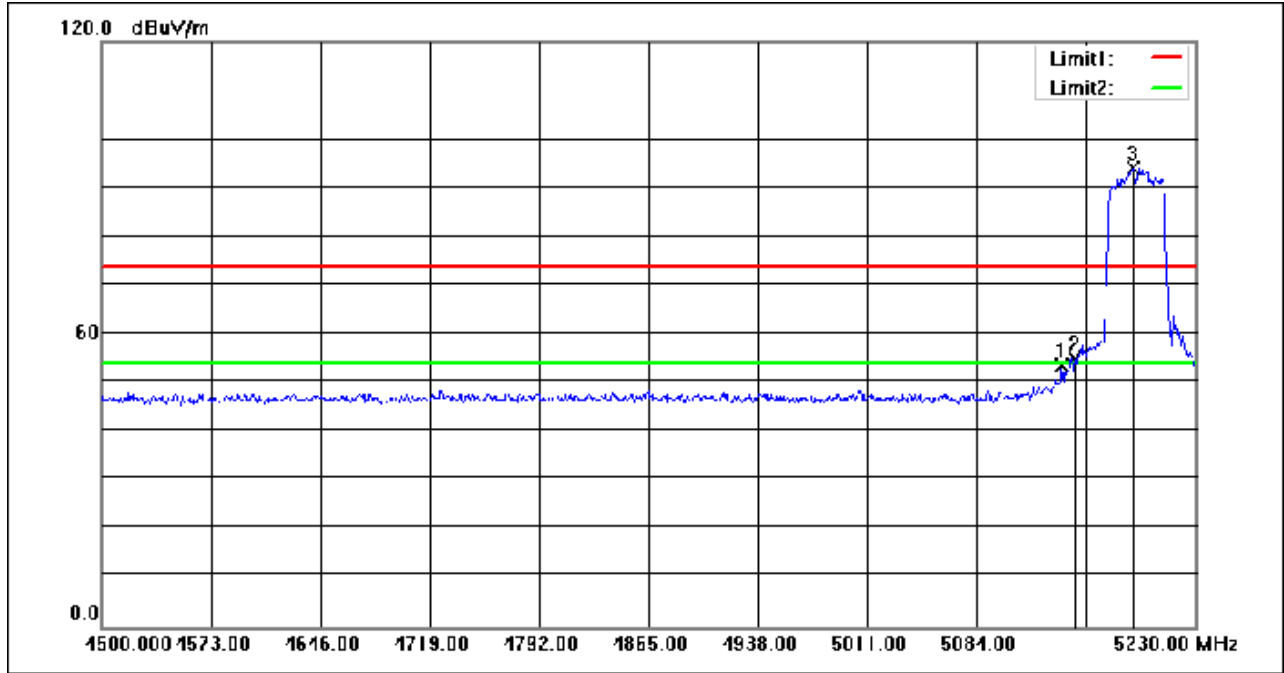


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5140.940	61.52	-7.86	53.66	74.00	-20.34	peak
2	5150.000	62.89	-7.84	55.05	74.00	-18.95	peak
3	5188.390	101.81	-7.76	94.05	74.00	20.05	peak



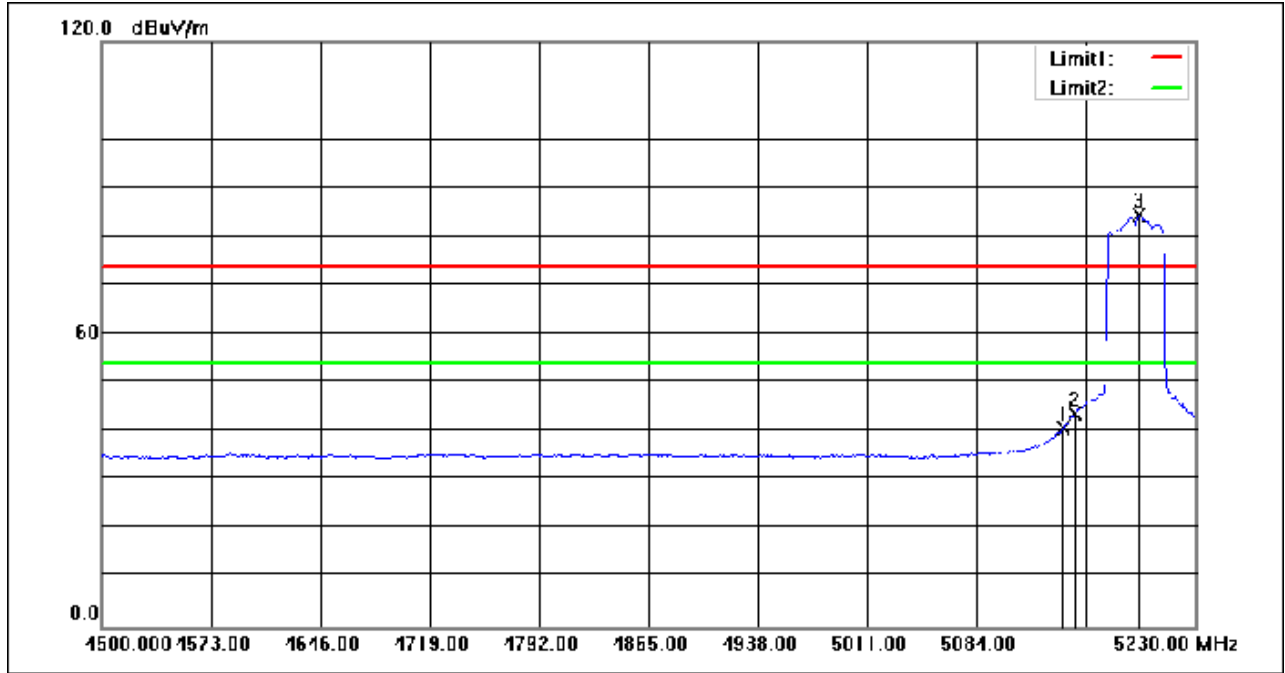
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5141.670	48.38	-7.86	40.52	54.00	-13.48	AVG
2	5150.000	51.54	-7.84	43.70	54.00	-10.30	AVG
3	5192.040	92.13	-7.75	84.38	54.00	30.38	AVG

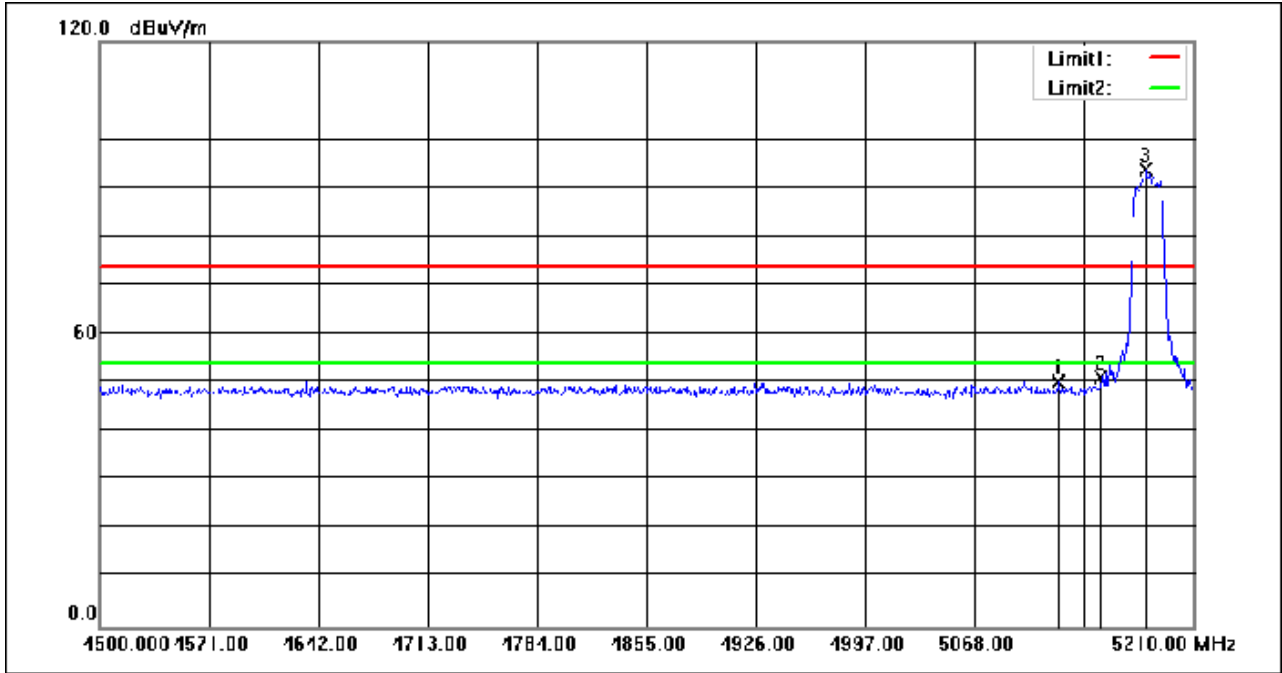


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5122.670	58.16	-7.90	50.26	74.00	-23.74	peak
2	5150.000	59.13	-7.84	51.29	74.00	-22.71	peak
3	5179.470	101.41	-7.77	93.64	74.00	19.64	peak

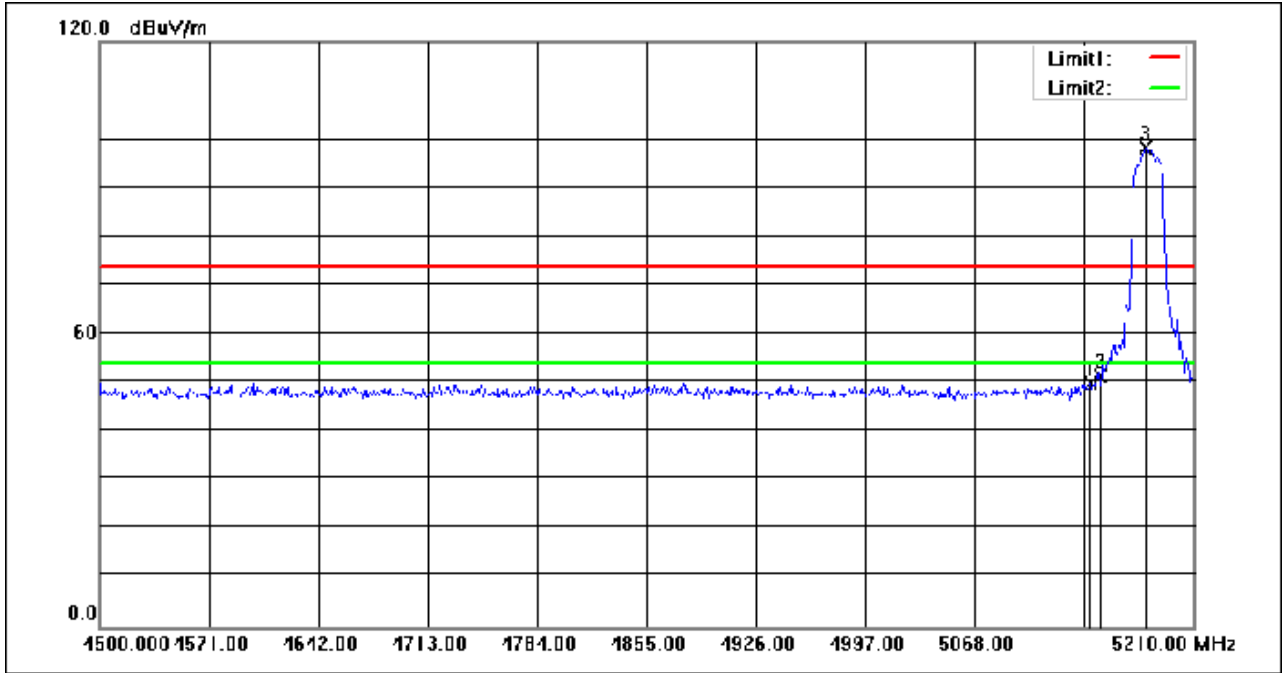


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.260	57.88	-7.86	50.02	74.00	-23.98	peak
2	5150.000	59.20	-7.84	51.36	74.00	-22.64	peak
3	5178.760	106.14	-7.78	98.36	74.00	24.36	peak

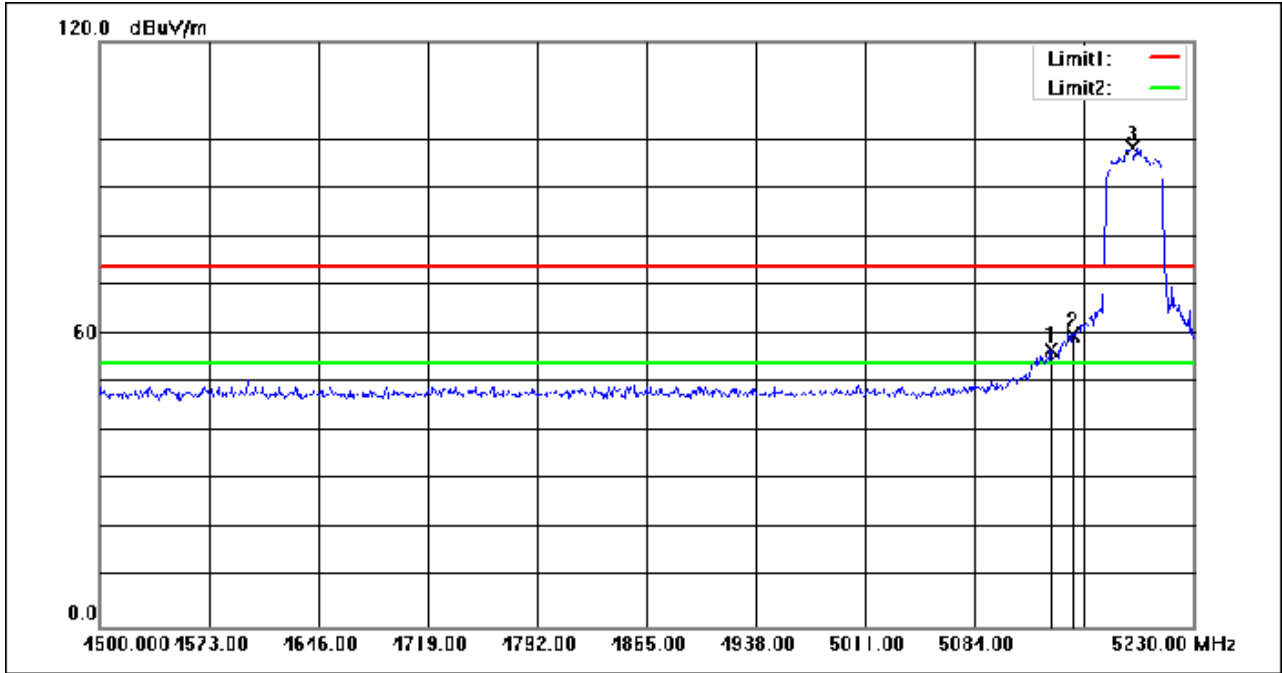


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.100	64.67	-7.88	56.79	74.00	-17.21	peak
2	5150.000	67.69	-7.84	59.85	74.00	-14.15	peak
3	5189.850	106.11	-7.76	98.35	74.00	24.35	peak

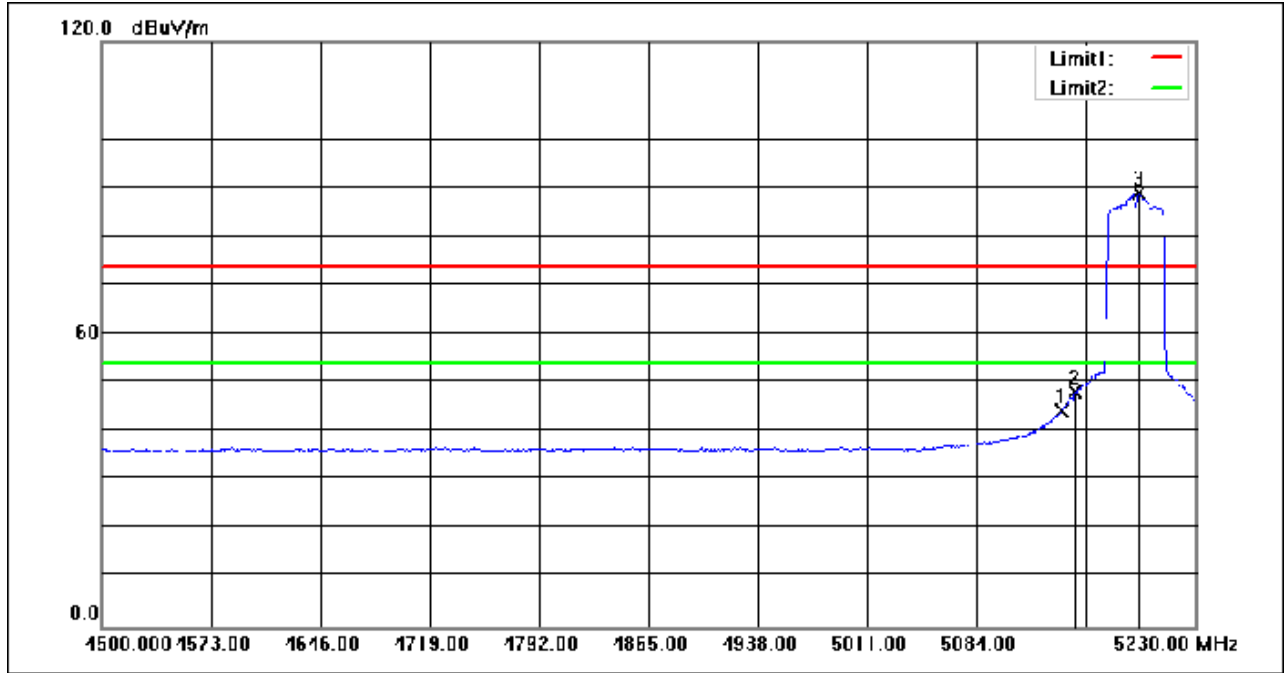


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5140.940	52.22	-7.86	44.36	54.00	-9.64	AVG
2	5150.000	55.99	-7.84	48.15	54.00	-5.85	AVG
3	5192.040	96.60	-7.75	88.85	54.00	34.85	AVG

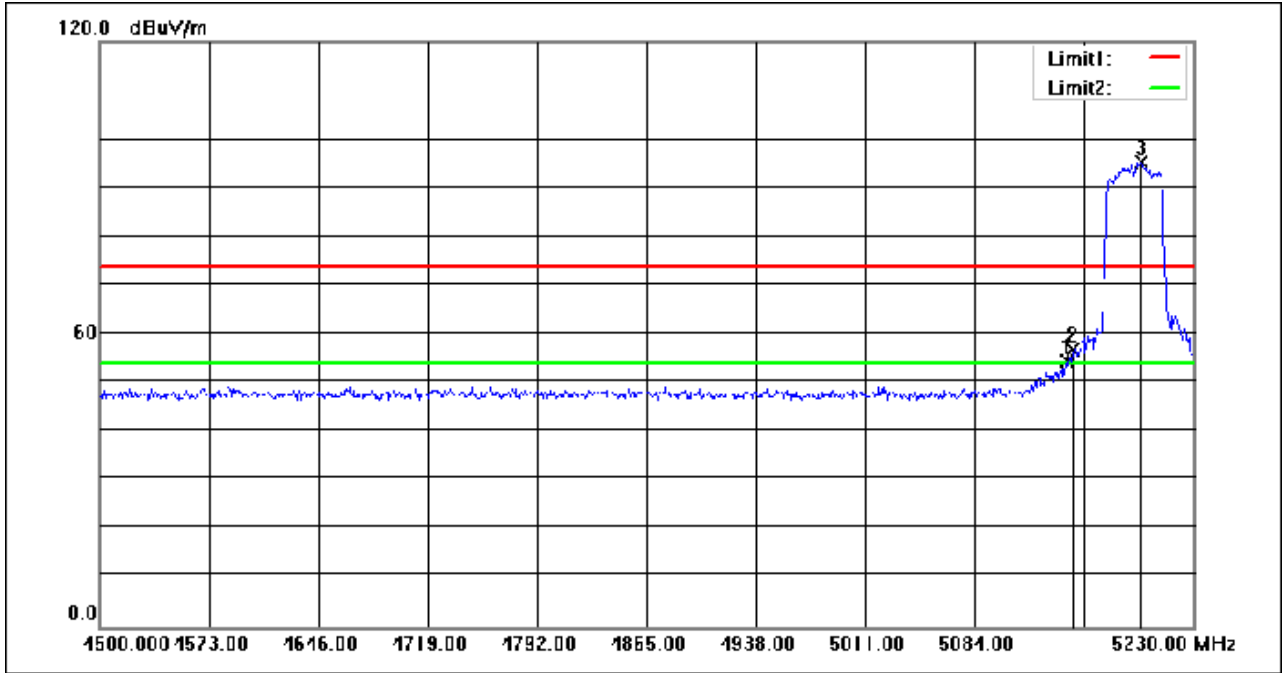


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.320	62.29	-7.85	54.44	74.00	-19.56	peak
2	5150.000	64.56	-7.84	56.72	74.00	-17.28	peak
3	5195.690	102.93	-7.74	95.19	74.00	21.19	peak

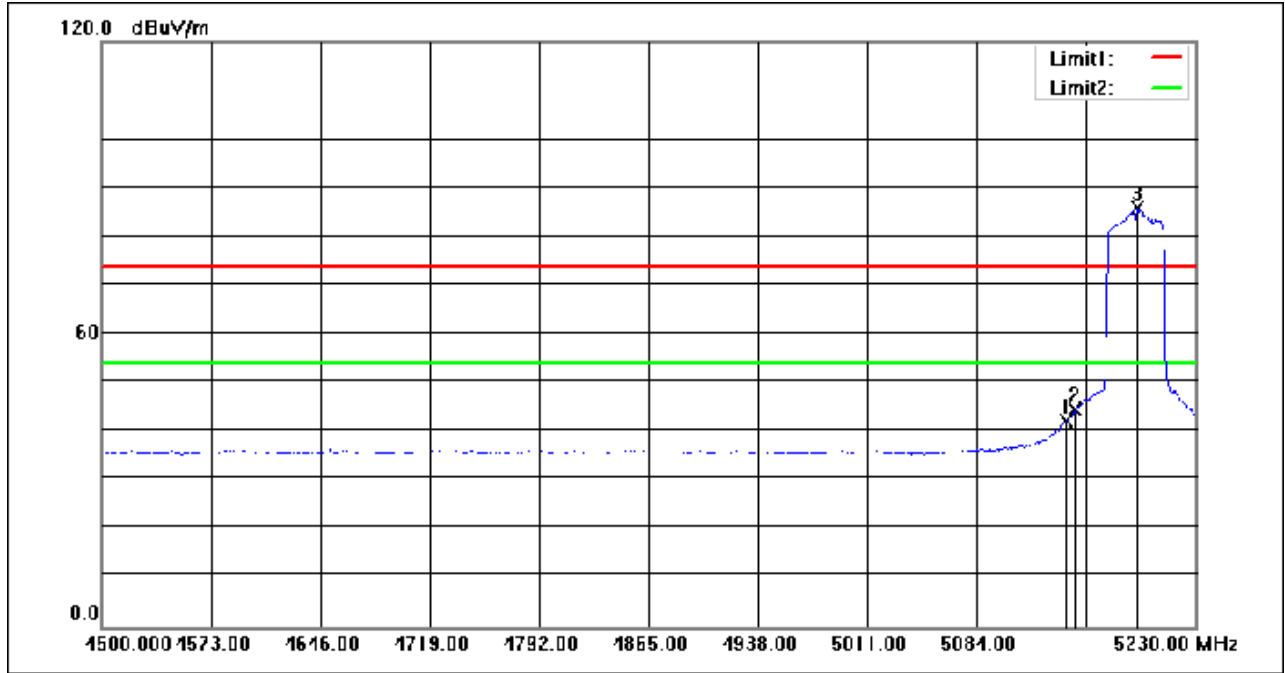


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	49.91	-7.86	42.05	54.00	-11.95	AVG
2	5150.000	52.48	-7.84	44.64	54.00	-9.36	AVG
3	5191.310	93.56	-7.75	85.81	54.00	31.81	AVG

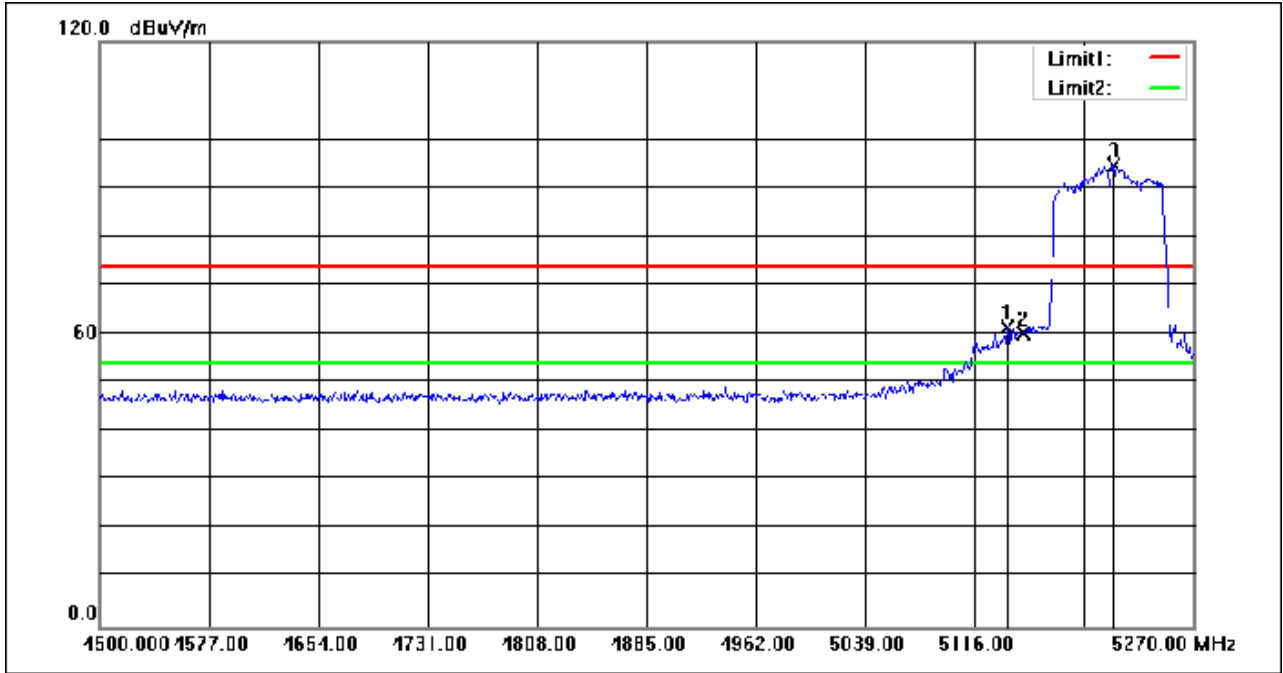


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.100	69.16	-7.87	61.29	74.00	-12.71	peak
2	5150.000	68.12	-7.84	60.28	74.00	-13.72	peak
3	5213.790	102.25	-7.68	94.57	74.00	20.57	peak

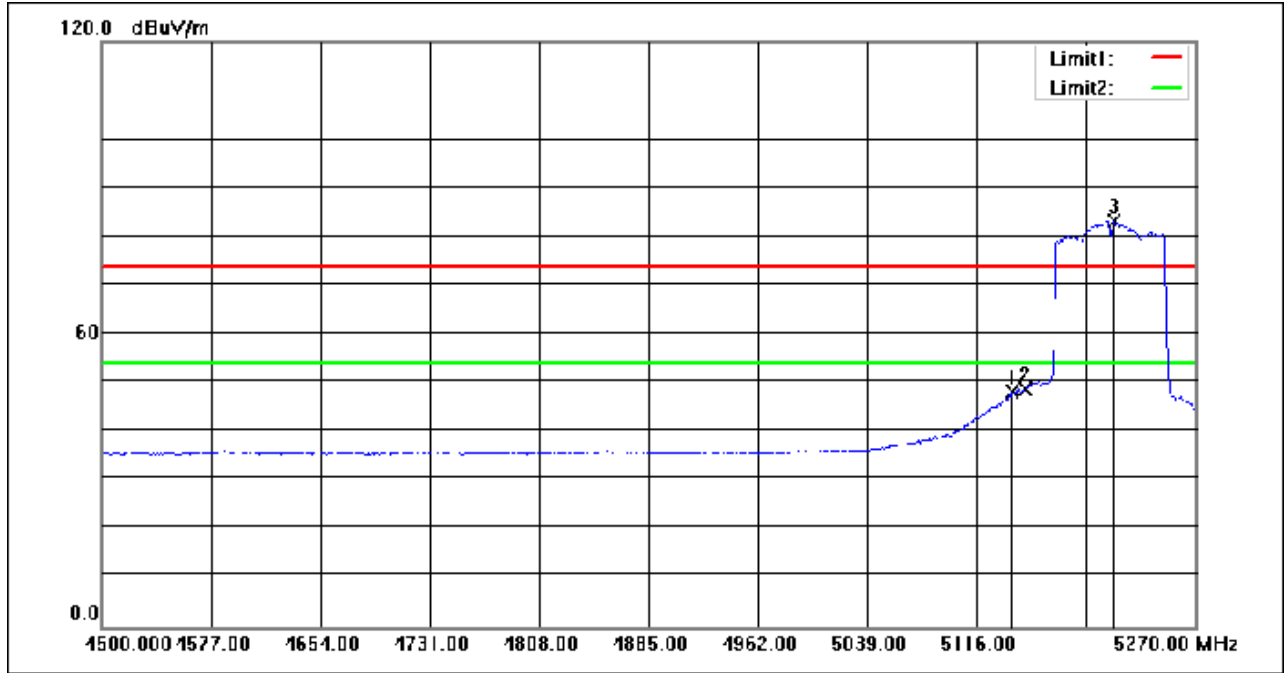


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5141.410	55.91	-7.86	48.05	54.00	-5.95	AVG
2	5150.000	56.69	-7.84	48.85	54.00	-5.15	AVG
3	5213.020	91.06	-7.68	83.38	54.00	29.38	AVG

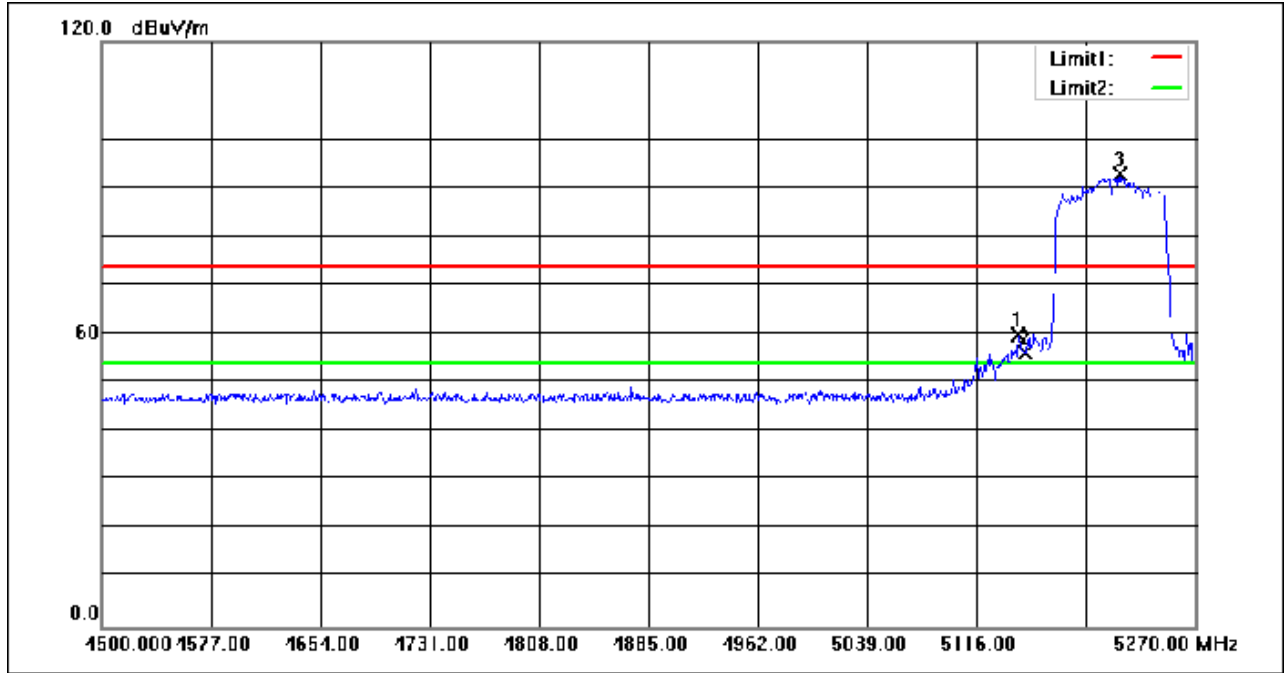


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.260	67.69	-7.85	59.84	74.00	-14.16	peak
2	5150.000	64.09	-7.84	56.25	74.00	-17.75	peak
3	5216.870	100.49	-7.66	92.83	74.00	18.83	peak

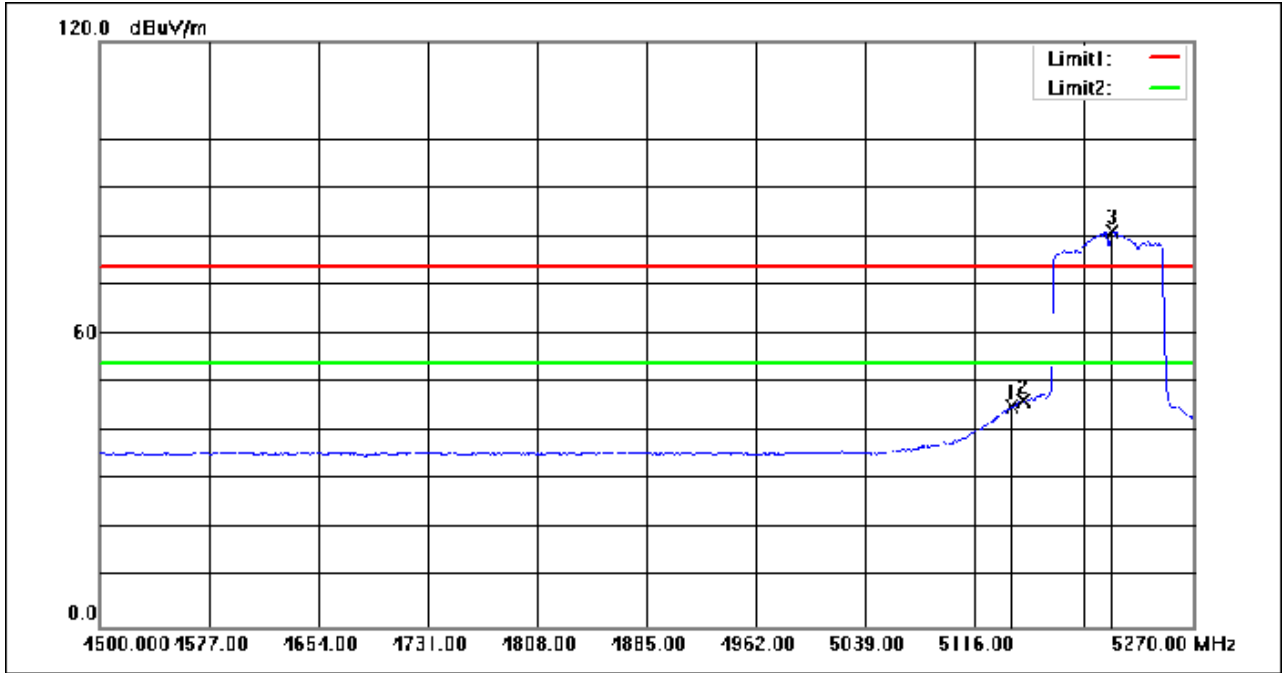


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.180	53.08	-7.86	45.22	54.00	-8.78	AVG
2	5150.000	54.06	-7.84	46.22	54.00	-7.78	AVG
3	5213.020	88.71	-7.68	81.03	54.00	27.03	AVG



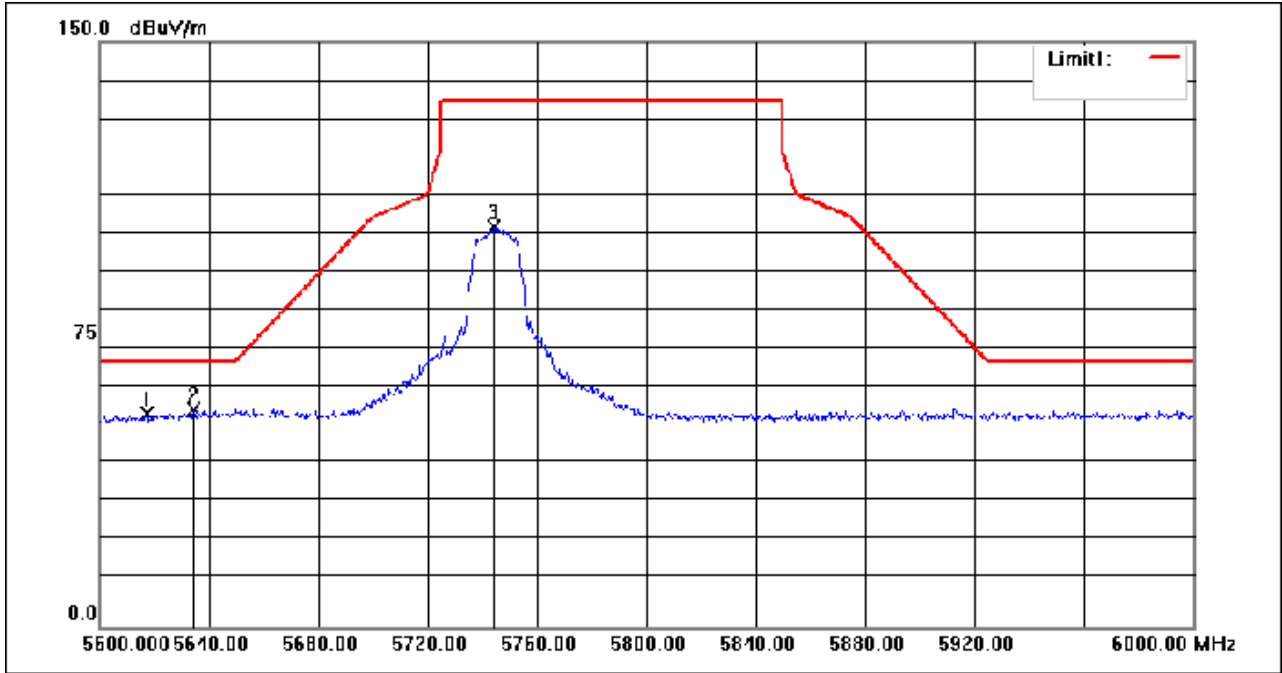
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5617.200	61.61	-6.92	54.69	68.20	-13.51	peak
2	5634.400	62.49	-6.88	55.61	68.20	-12.59	peak
3	5744.000	109.18	-6.60	102.58	135.00	-32.42	peak



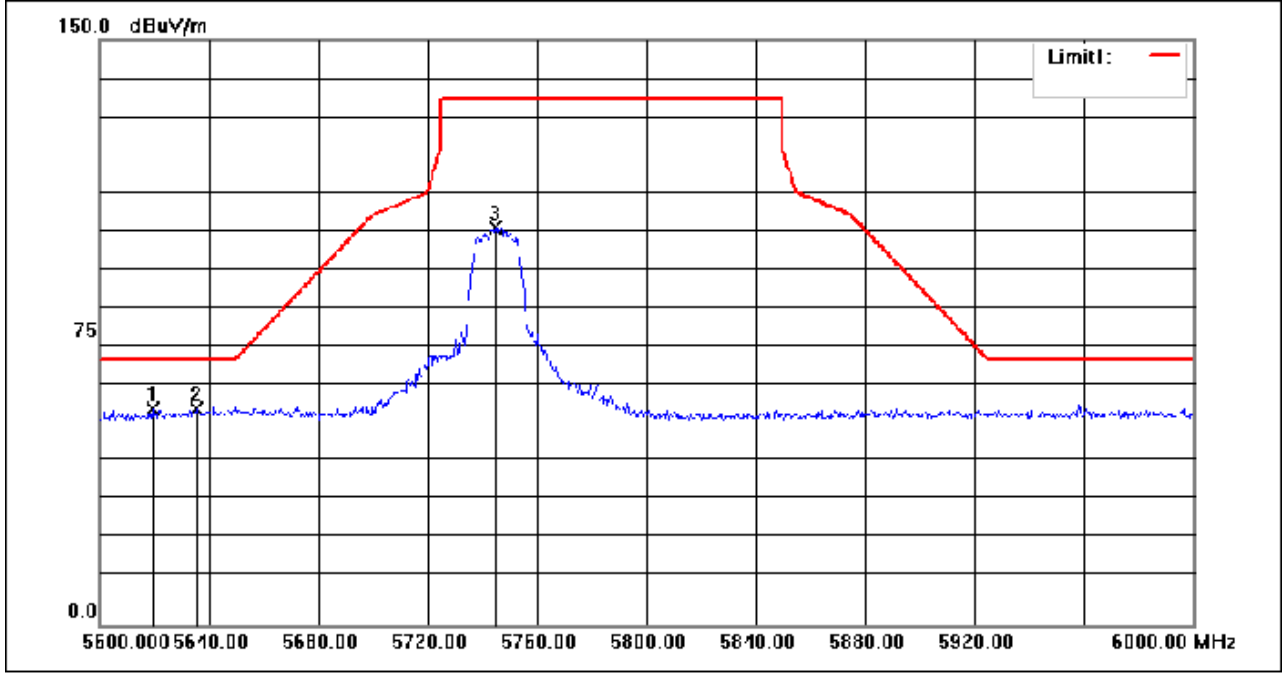
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5619.200	62.19	-6.92	55.27	68.20	-12.93	peak
2	5635.600	62.17	-6.88	55.29	68.20	-12.91	peak
3	5744.800	108.30	-6.60	101.70	135.00	-33.30	peak



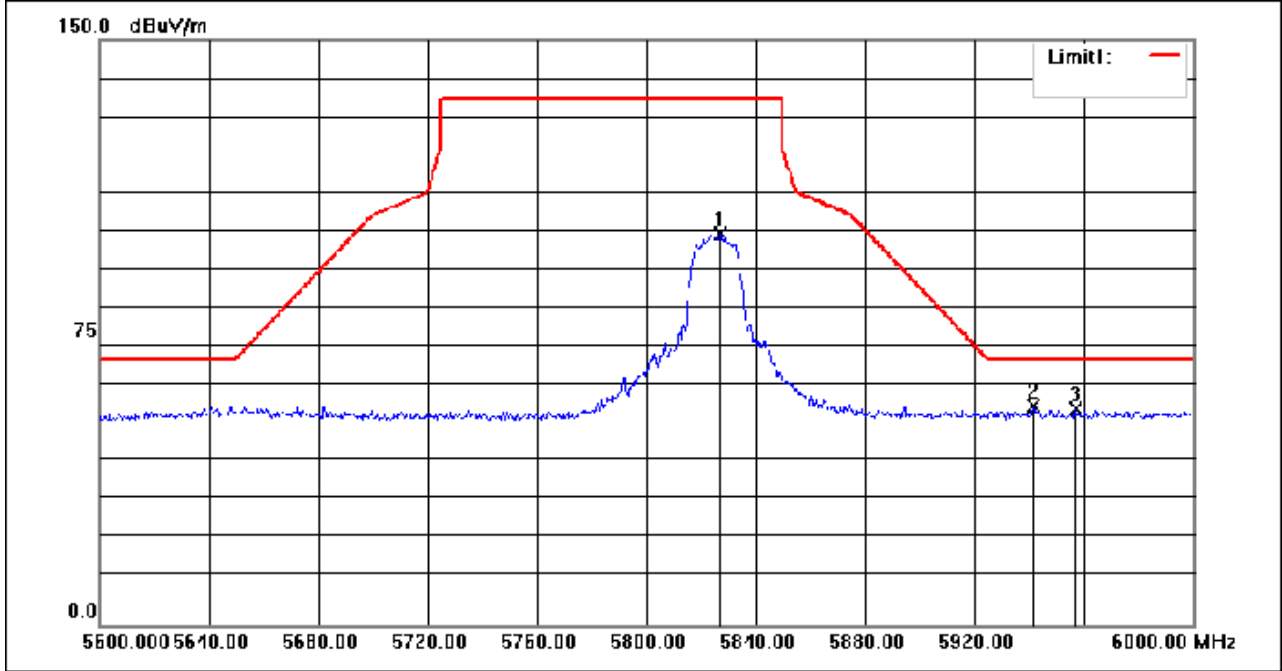
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	106.47	-6.31	100.16	135.00	-34.84	peak
2	5941.600	61.56	-5.68	55.88	68.20	-12.32	peak
3	5956.800	61.06	-5.60	55.46	68.20	-12.74	peak

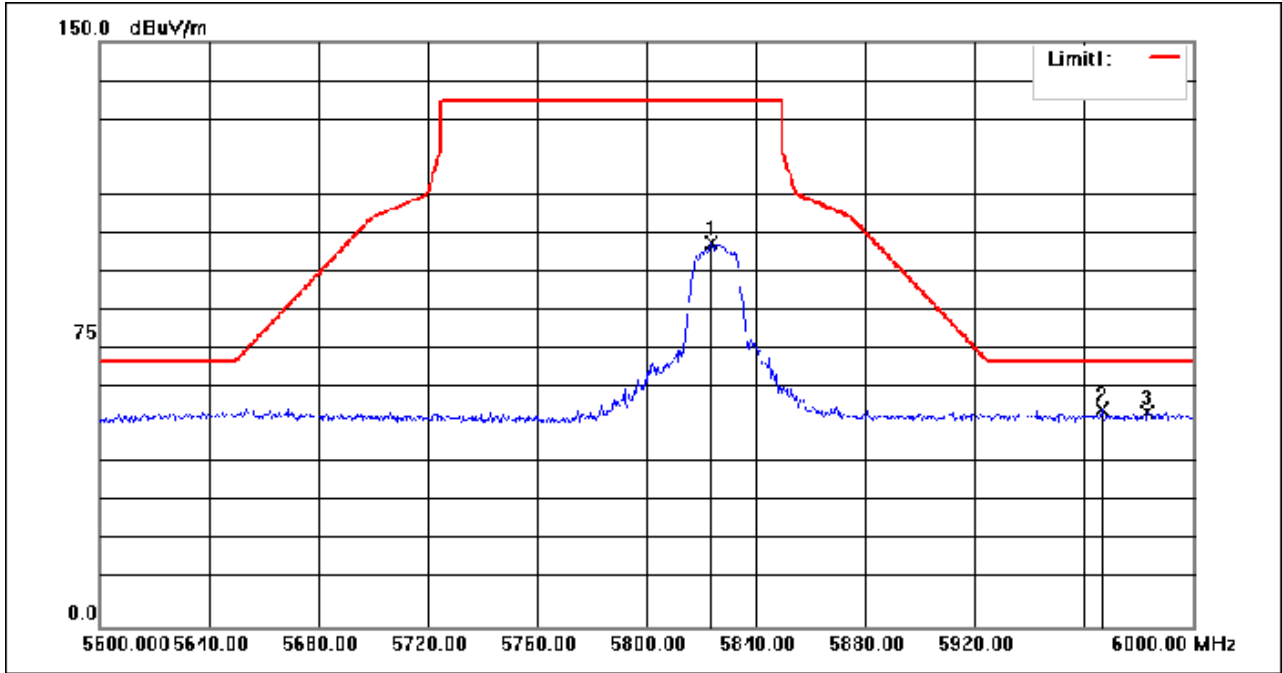


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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.600	104.81	-6.33	98.48	135.00	-36.52	peak
2	5966.800	61.35	-5.54	55.81	68.20	-12.39	peak
3	5983.200	60.45	-5.45	55.00	68.20	-13.20	peak

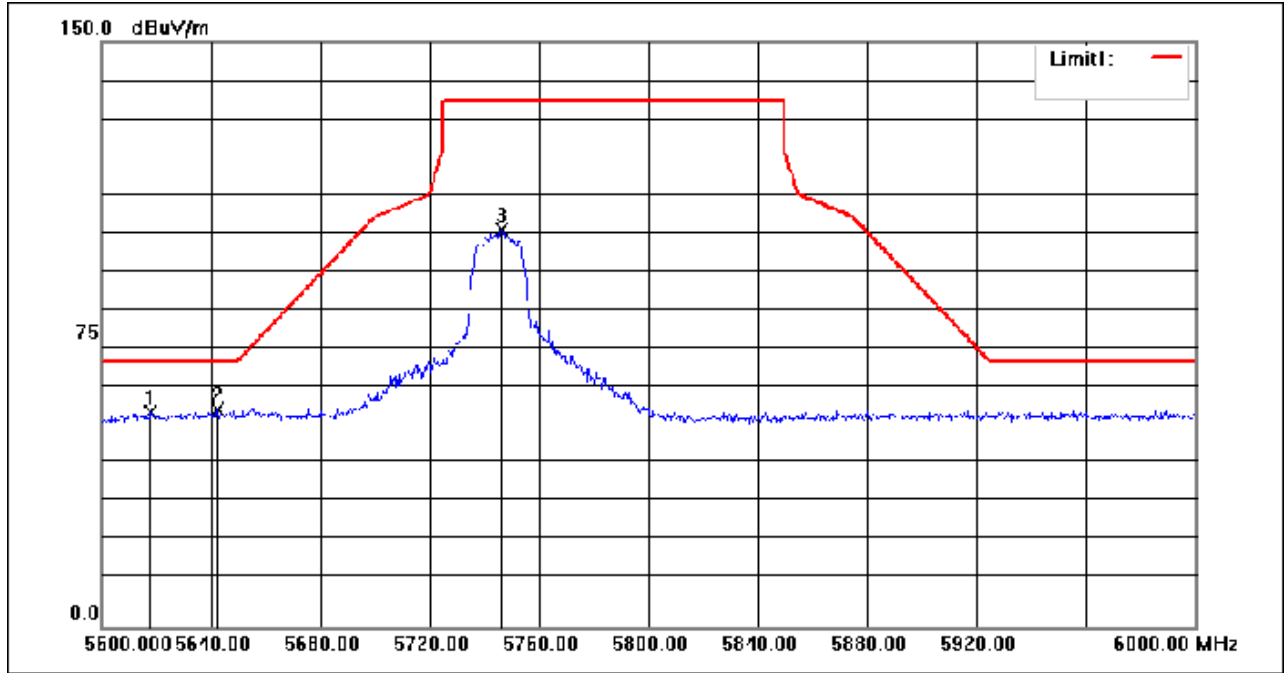


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5618.000	61.97	-6.92	55.05	68.20	-13.15	peak
2	5642.400	62.40	-6.87	55.53	68.20	-12.67	peak
3	5746.400	108.39	-6.60	101.79	135.00	-33.21	peak

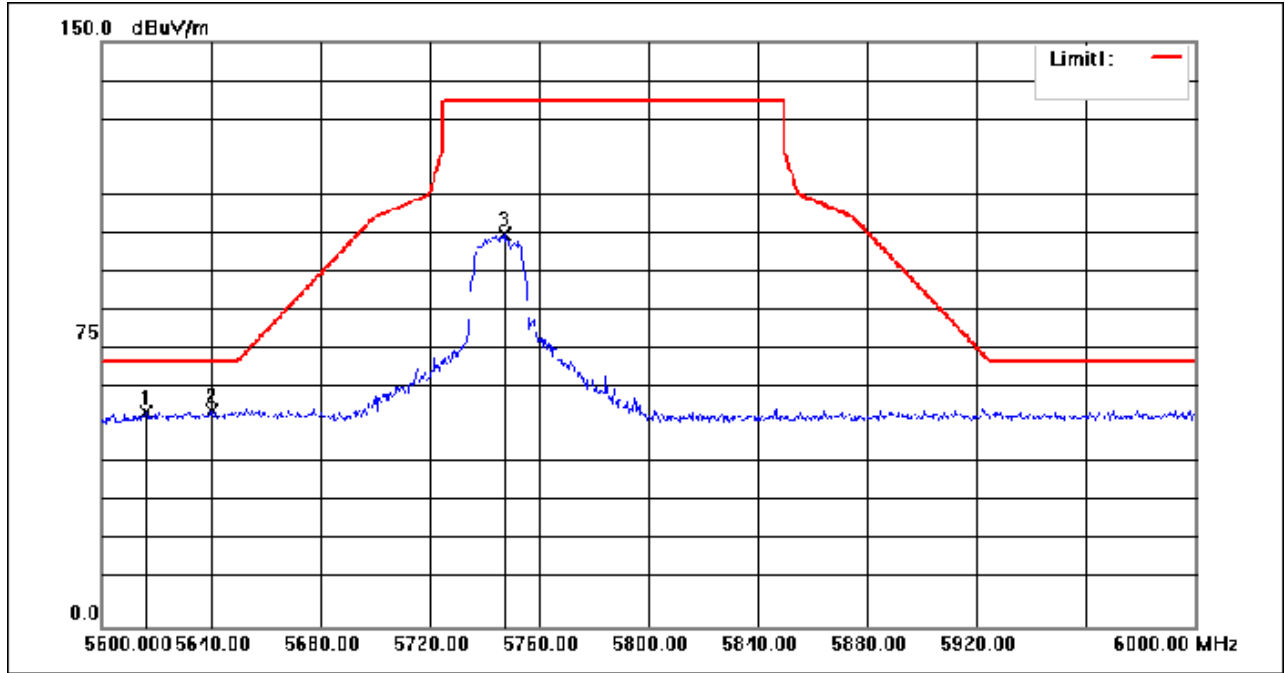


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



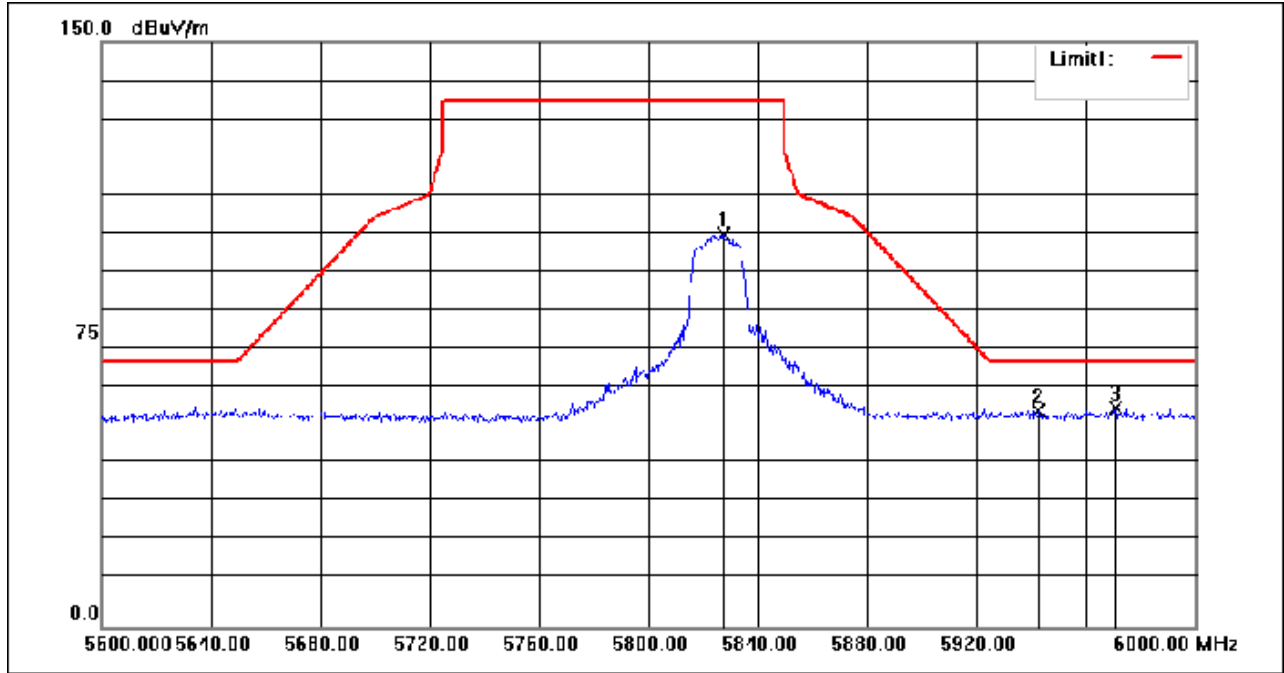
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.400	61.81	-6.93	54.88	68.20	-13.32	peak
2	5640.000	62.14	-6.87	55.27	68.20	-12.93	peak
3	5747.200	107.15	-6.60	100.55	135.00	-34.45	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5827.200	107.01	-6.31	100.70	135.00	-34.30	peak
2	5942.800	61.01	-5.67	55.34	68.20	-12.86	peak
3	5970.800	61.51	-5.52	55.99	68.20	-12.21	peak

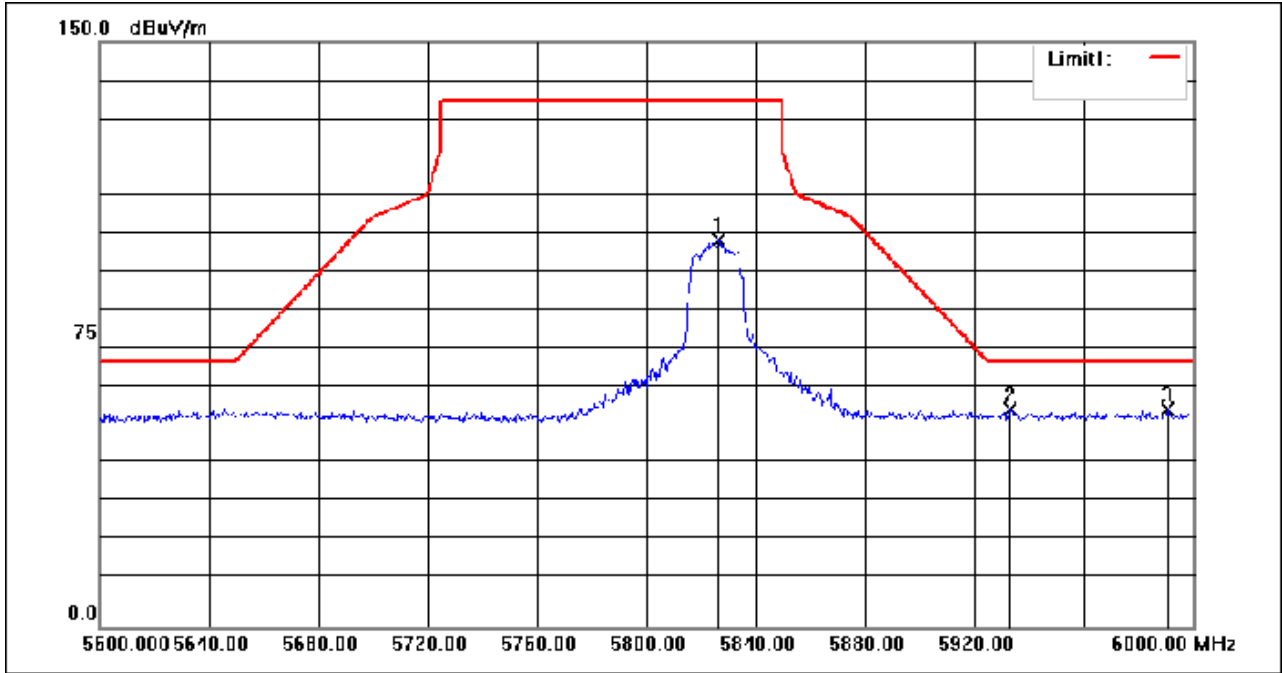


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	105.34	-6.32	99.02	135.00	-35.98	peak
2	5932.800	61.47	-5.73	55.74	68.20	-12.46	peak
3	5990.400	60.93	-5.41	55.52	68.20	-12.68	peak

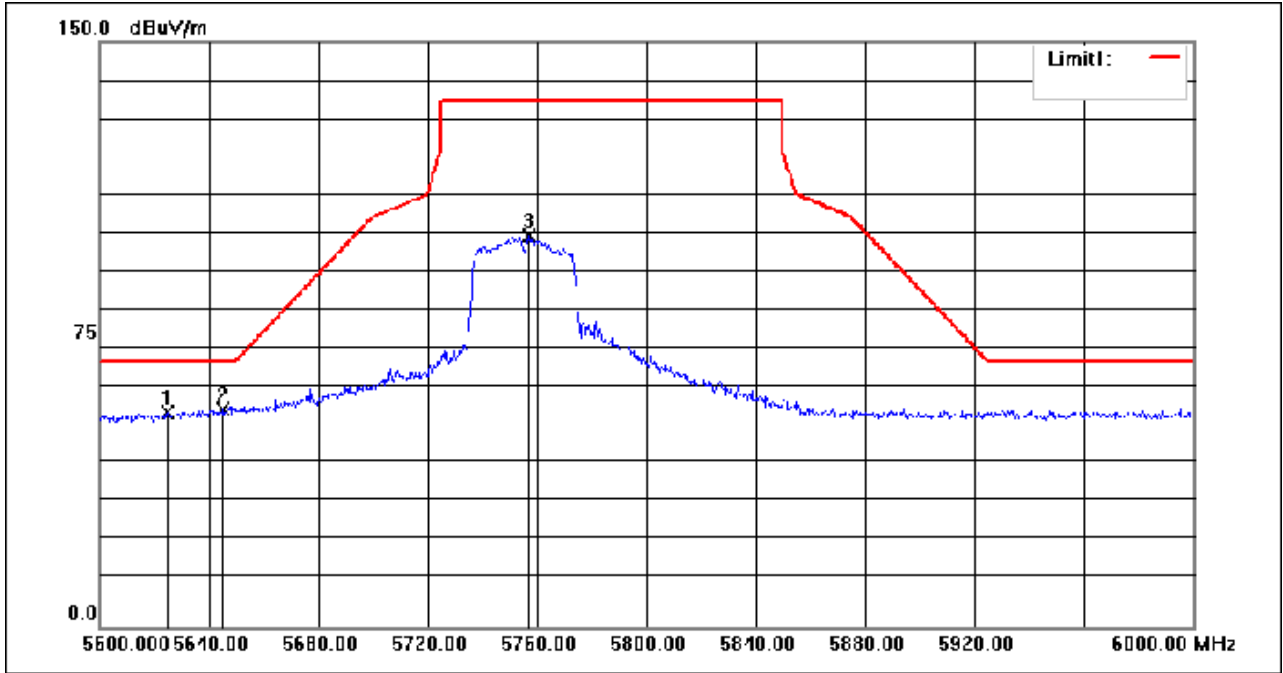


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.800	61.66	-6.90	54.76	68.20	-13.44	peak
2	5645.200	62.66	-6.85	55.81	68.20	-12.39	peak
3	5757.200	106.75	-6.56	100.19	135.00	-34.81	peak

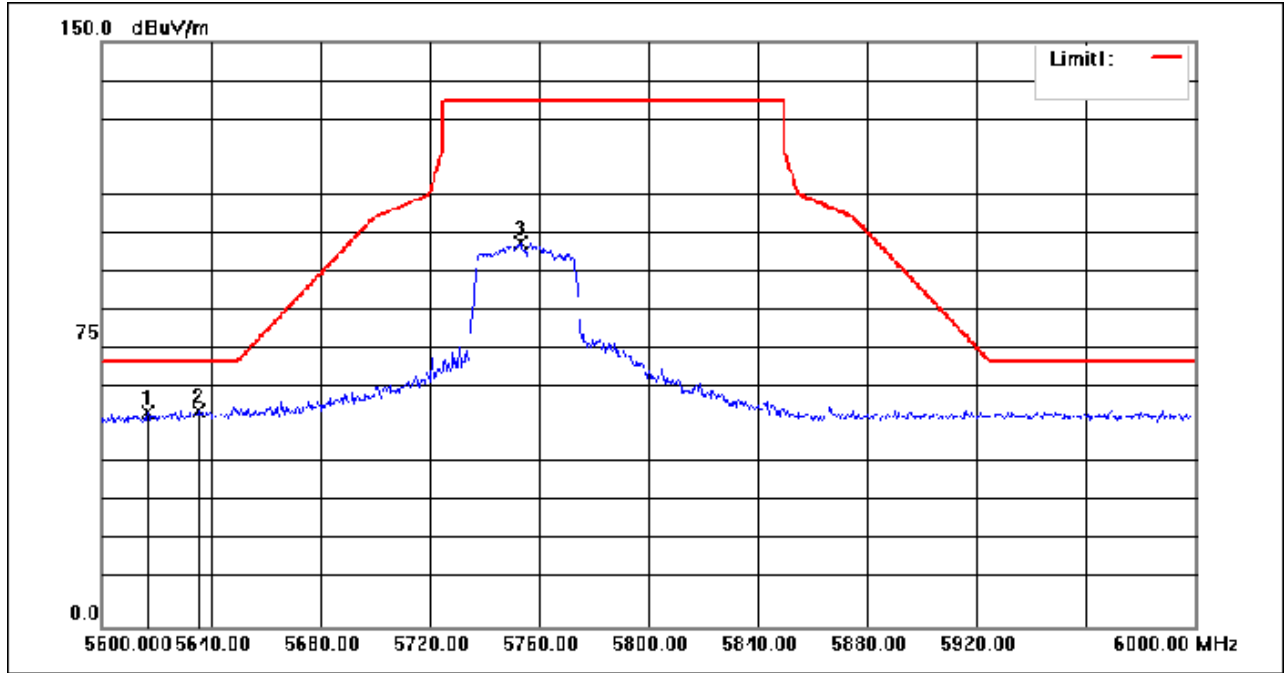


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.800	61.92	-6.92	55.00	68.20	-13.20	peak
2	5635.200	62.26	-6.88	55.38	68.20	-12.82	peak
3	5753.200	104.99	-6.58	98.41	135.00	-36.59	peak

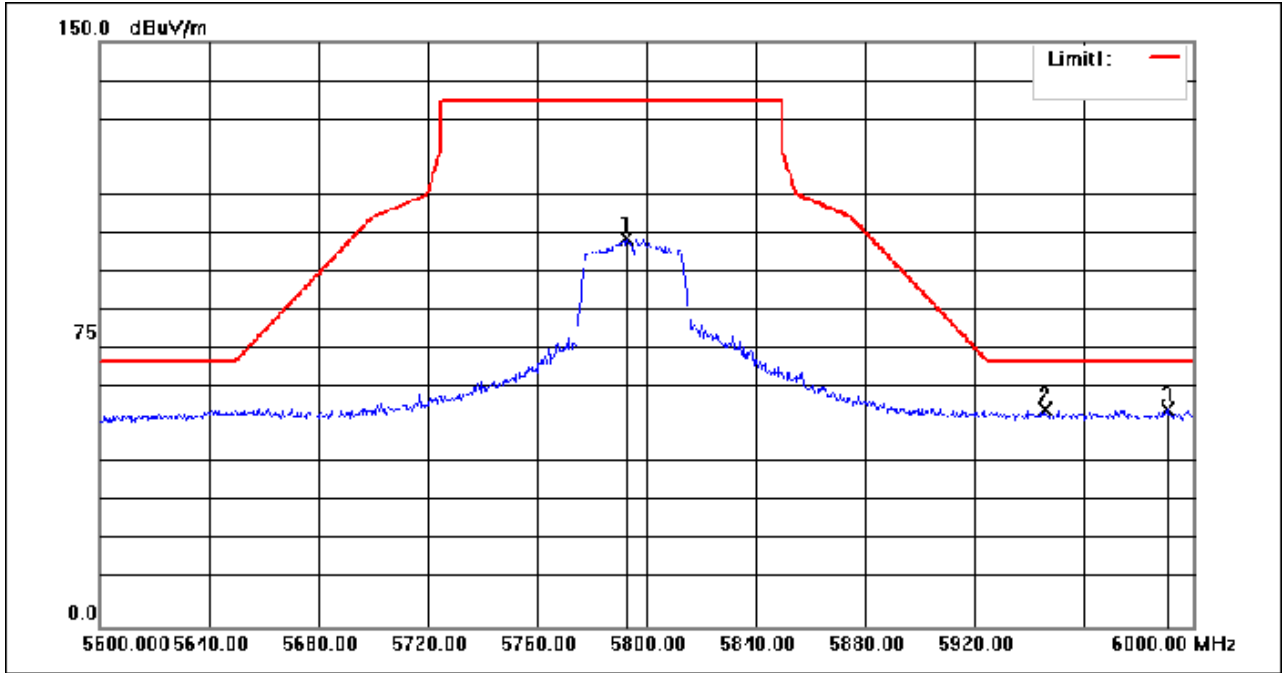


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.800	105.96	-6.48	99.48	135.00	-35.52	peak
2	5945.600	61.49	-5.66	55.83	68.20	-12.37	peak
3	5990.400	61.23	-5.41	55.82	68.20	-12.38	peak

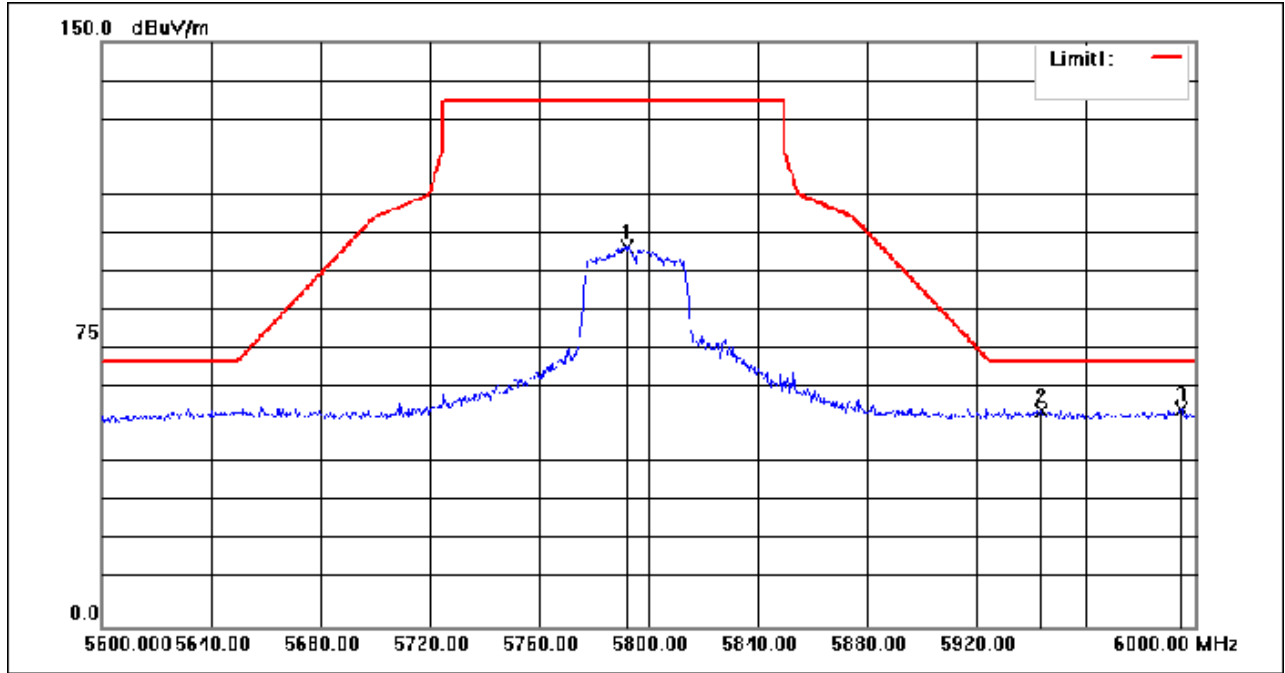


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.400	103.94	-6.48	97.46	135.00	-37.54	peak
2	5943.600	61.06	-5.67	55.39	68.20	-12.81	peak
3	5994.800	60.95	-5.39	55.56	68.20	-12.64	peak

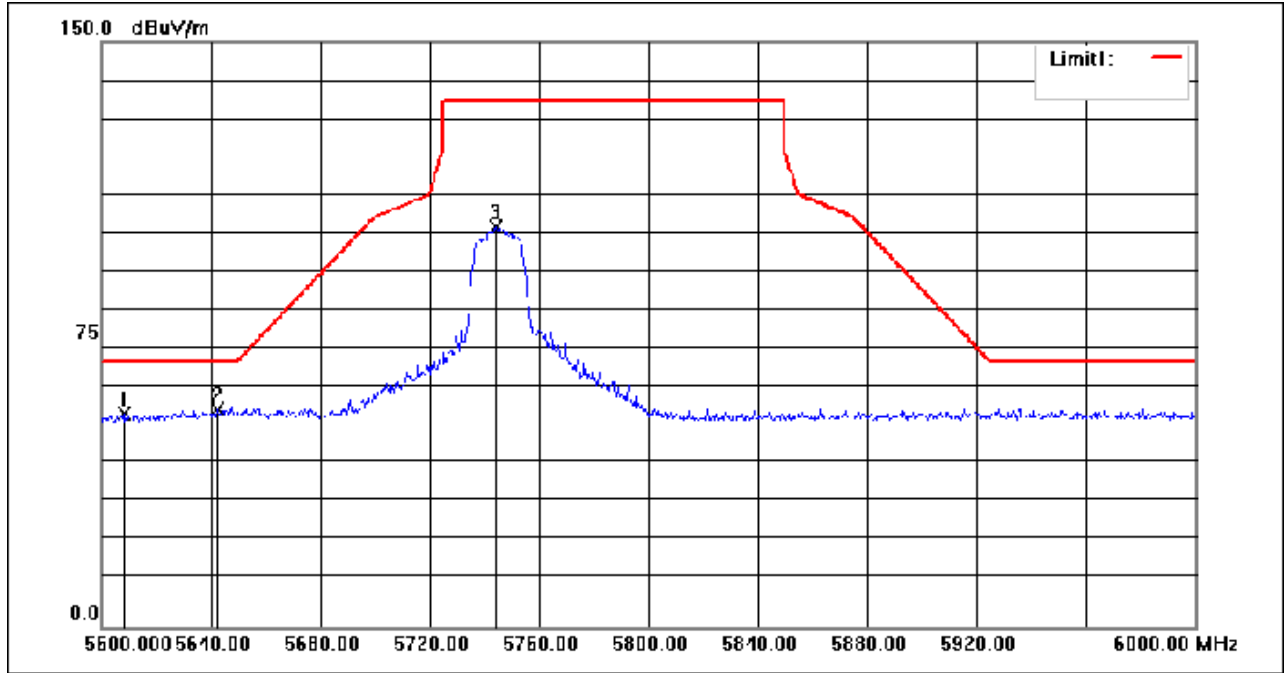


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5608.000	61.48	-6.95	54.53	68.20	-13.67	peak
2	5642.400	62.52	-6.87	55.65	68.20	-12.55	peak
3	5744.000	109.05	-6.60	102.45	135.00	-32.55	peak

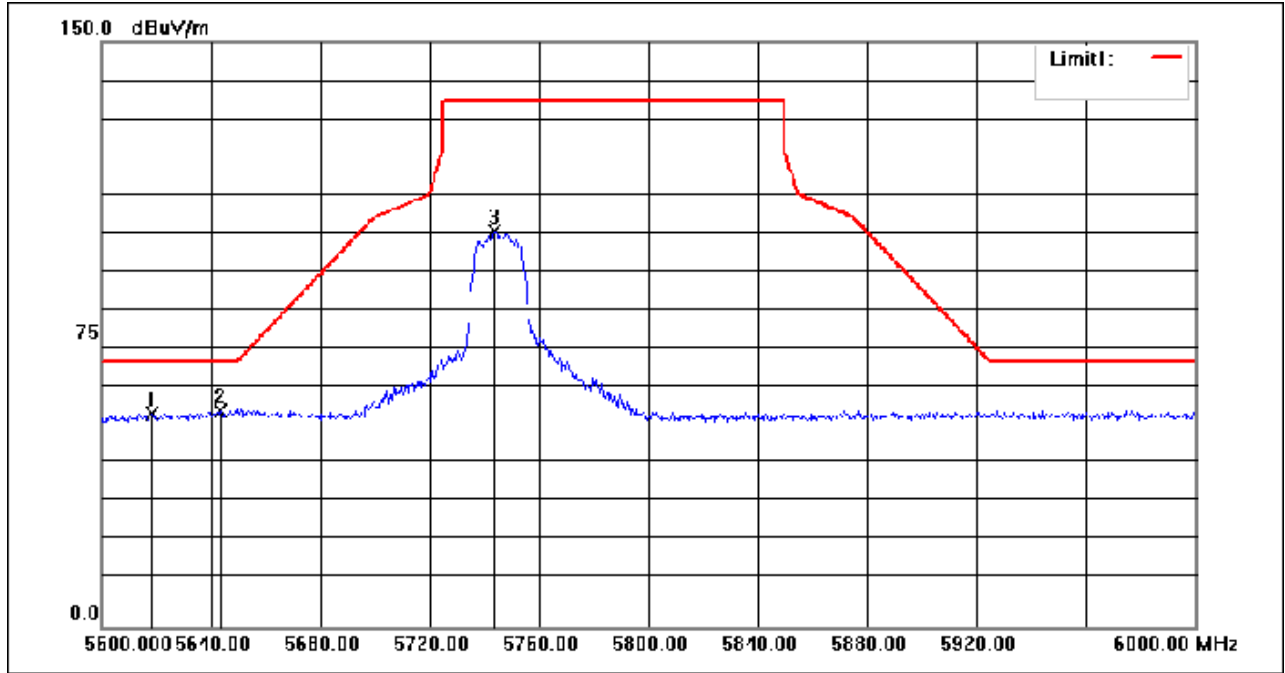


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5618.400	61.48	-6.92	54.56	68.20	-13.64	peak
2	5643.200	62.24	-6.86	55.38	68.20	-12.82	peak
3	5743.600	108.02	-6.60	101.42	135.00	-33.58	peak

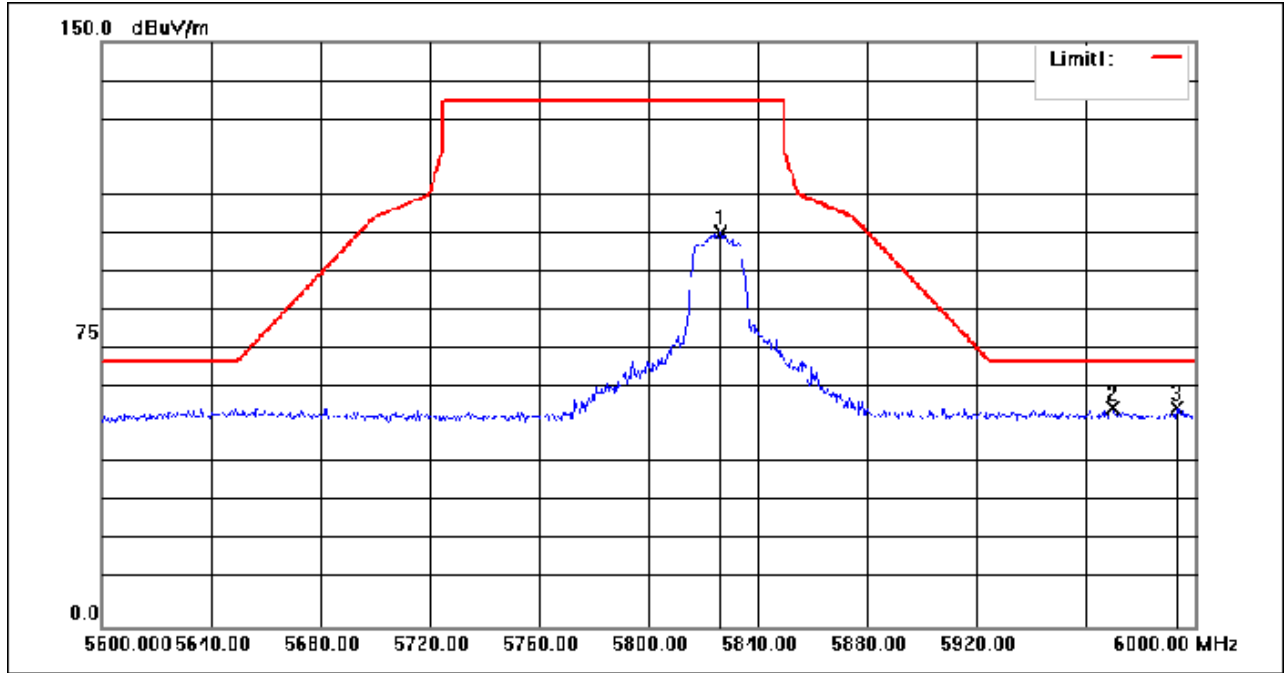


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	107.32	-6.32	101.00	135.00	-34.00	peak
2	5970.000	61.43	-5.52	55.91	68.20	-12.29	peak
3	5993.200	61.43	-5.40	56.03	68.20	-12.17	peak

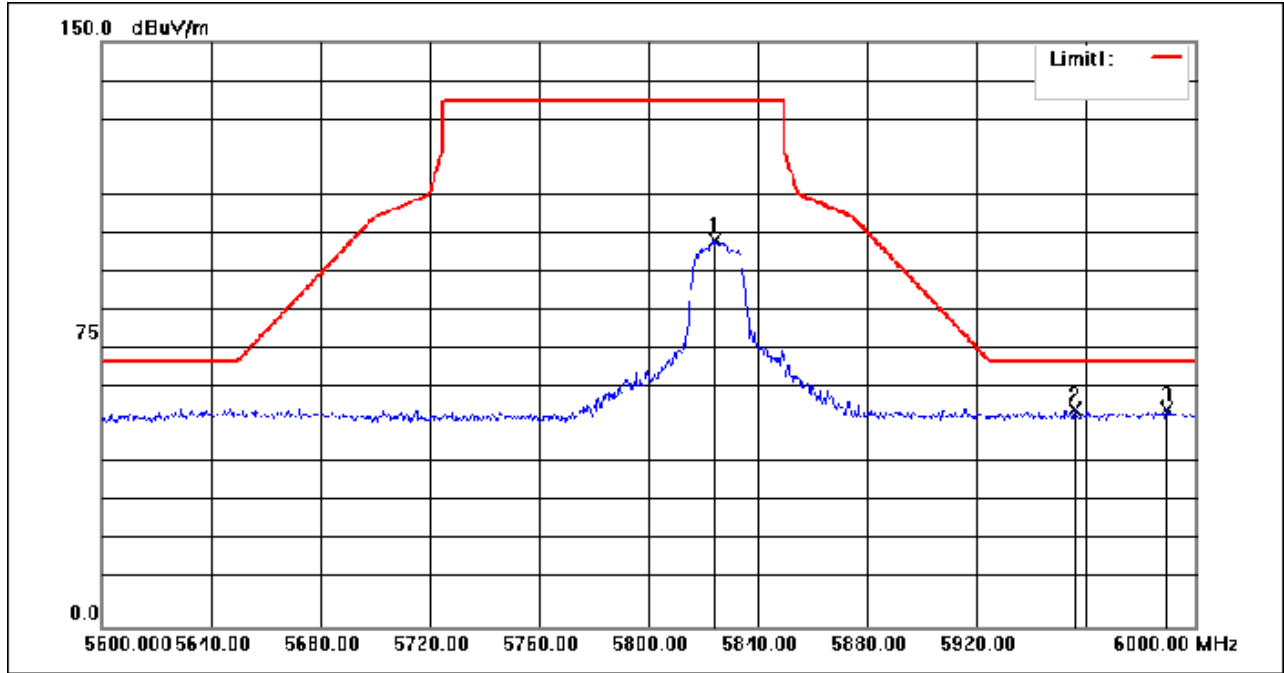


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5824.000	105.38	-6.32	99.06	135.00	-35.94	peak
2	5956.000	61.19	-5.60	55.59	68.20	-12.61	peak
3	5989.600	61.21	-5.42	55.79	68.20	-12.41	peak

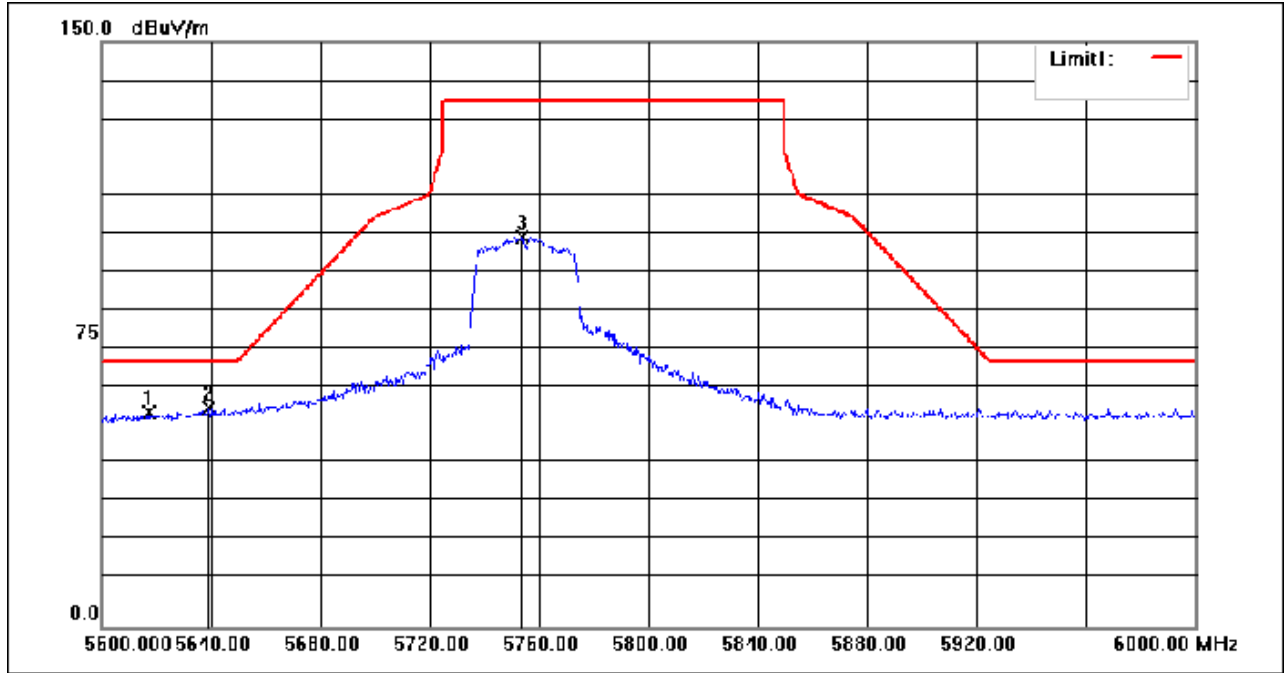


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5617.200	61.88	-6.92	54.96	68.20	-13.24	peak
2	5639.200	63.00	-6.87	56.13	68.20	-12.07	peak
3	5754.000	106.64	-6.58	100.06	135.00	-34.94	peak

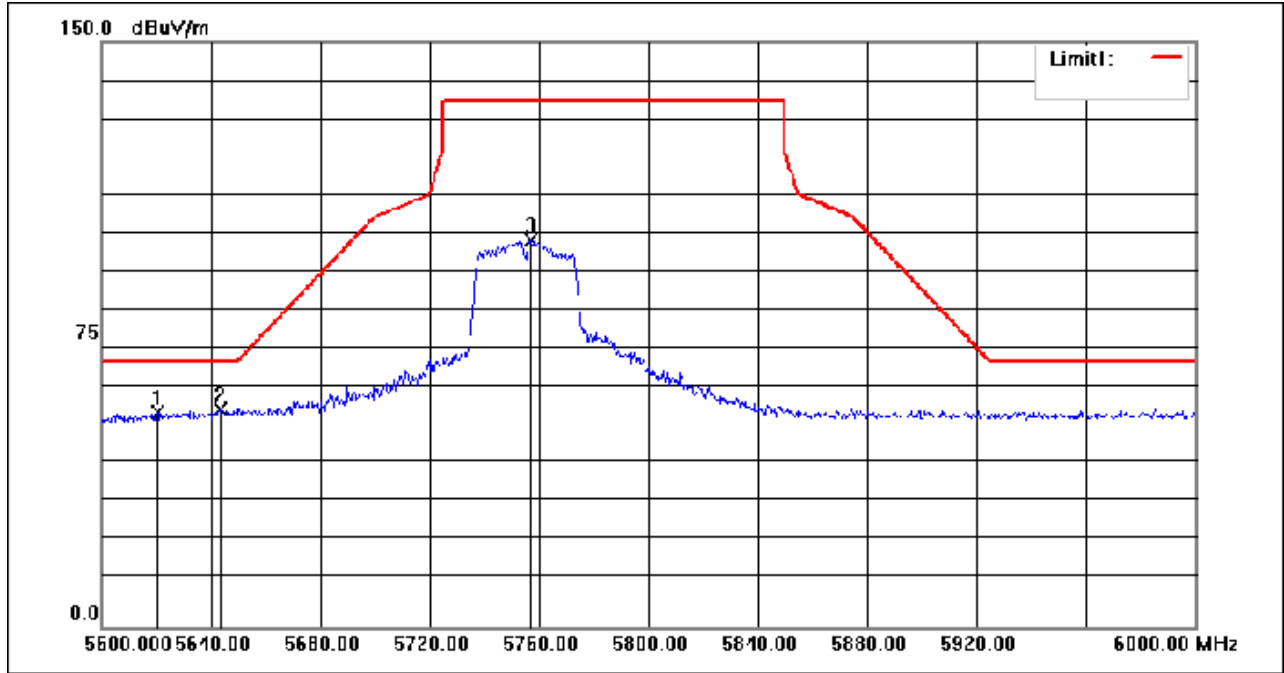


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5620.400	61.94	-6.92	55.02	68.20	-13.18	peak
2	5643.200	62.62	-6.86	55.76	68.20	-12.44	peak
3	5756.800	105.88	-6.57	99.31	135.00	-35.69	peak

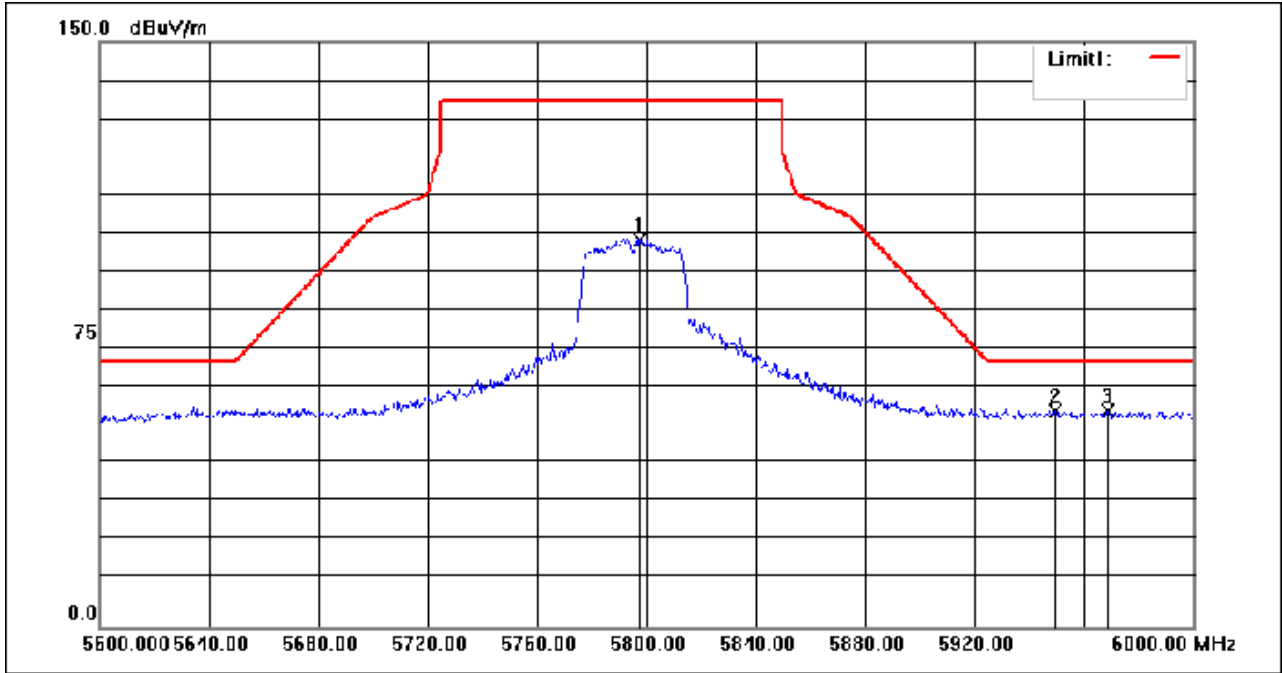


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.600	105.77	-6.46	99.31	135.00	-35.69	peak
2	5949.600	60.88	-5.64	55.24	68.20	-12.96	peak
3	5968.800	60.86	-5.53	55.33	68.20	-12.87	peak

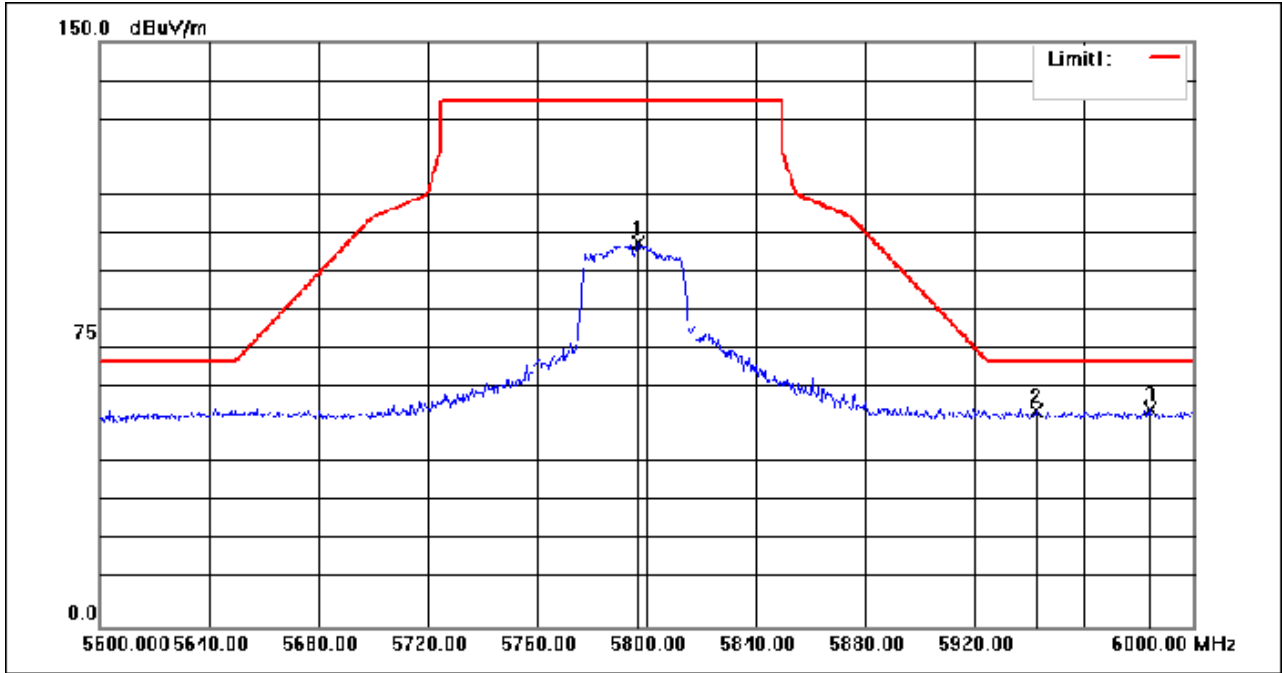


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5796.800	105.01	-6.46	98.55	135.00	-36.45	peak
2	5942.400	60.94	-5.67	55.27	68.20	-12.93	peak
3	5984.000	61.32	-5.45	55.87	68.20	-12.33	peak

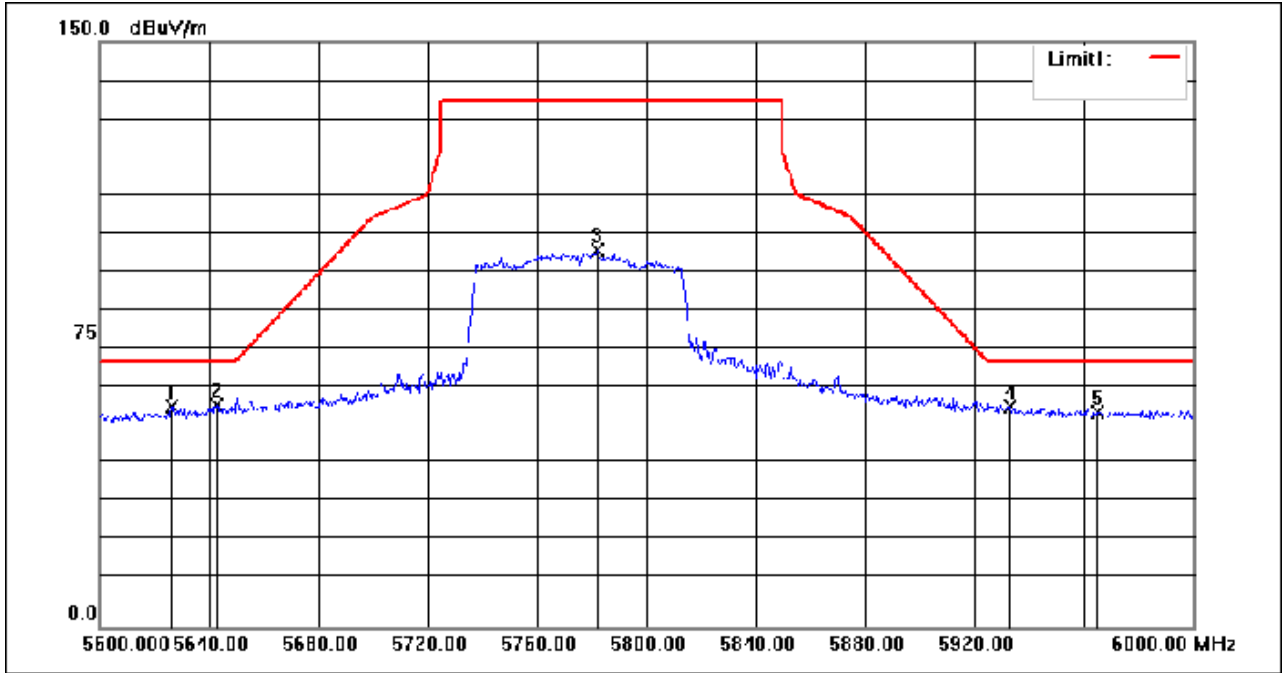


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5626.400	63.21	-6.90	56.31	68.20	-11.89	peak
2	5642.800	63.63	-6.87	56.76	68.20	-11.44	peak
3	5782.000	102.91	-6.51	96.40	135.00	-38.60	peak
4	5933.200	62.22	-5.73	56.49	68.20	-11.71	peak
5	5965.200	60.58	-5.56	55.02	68.20	-13.18	peak

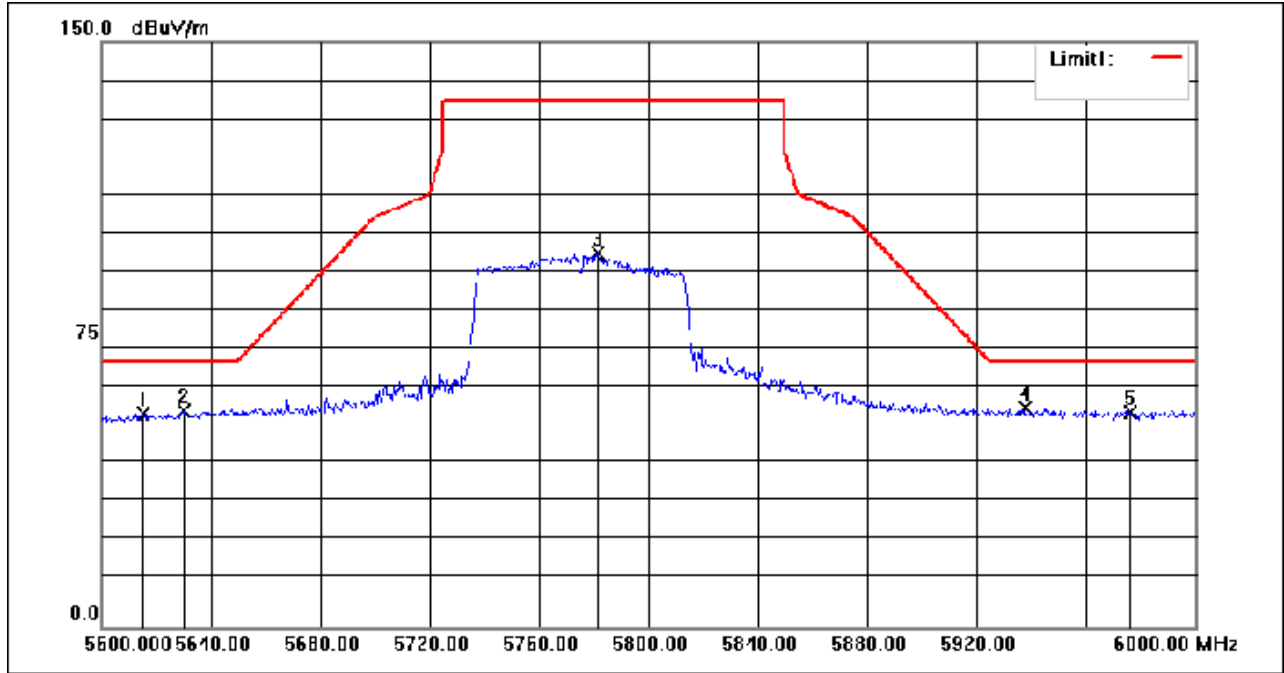


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5615.200	61.54	-6.93	54.61	68.20	-13.59	peak
2	5630.000	62.32	-6.89	55.43	68.20	-12.77	peak
3	5781.600	102.24	-6.51	95.73	135.00	-39.27	peak
4	5937.600	61.95	-5.70	56.25	68.20	-11.95	peak
5	5976.400	60.47	-5.49	54.98	68.20	-13.22	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

Limit:

7.10.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram

7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

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: 24.5 °C Humidity: 42.2 % RH Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

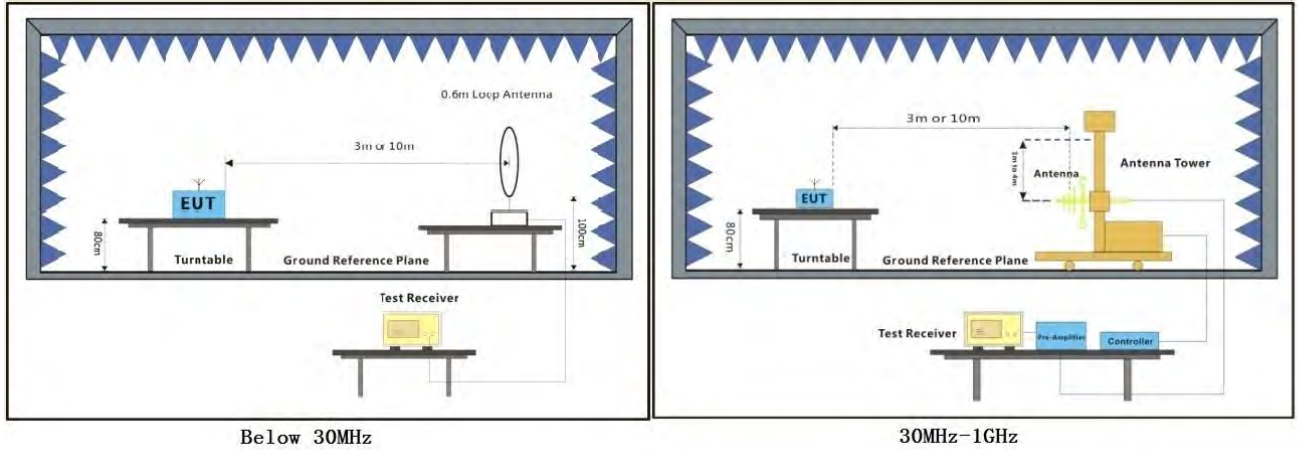
Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	02	Charge +TX mode (U-NII-3)_Keep the EUT in charging and in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.11.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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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:

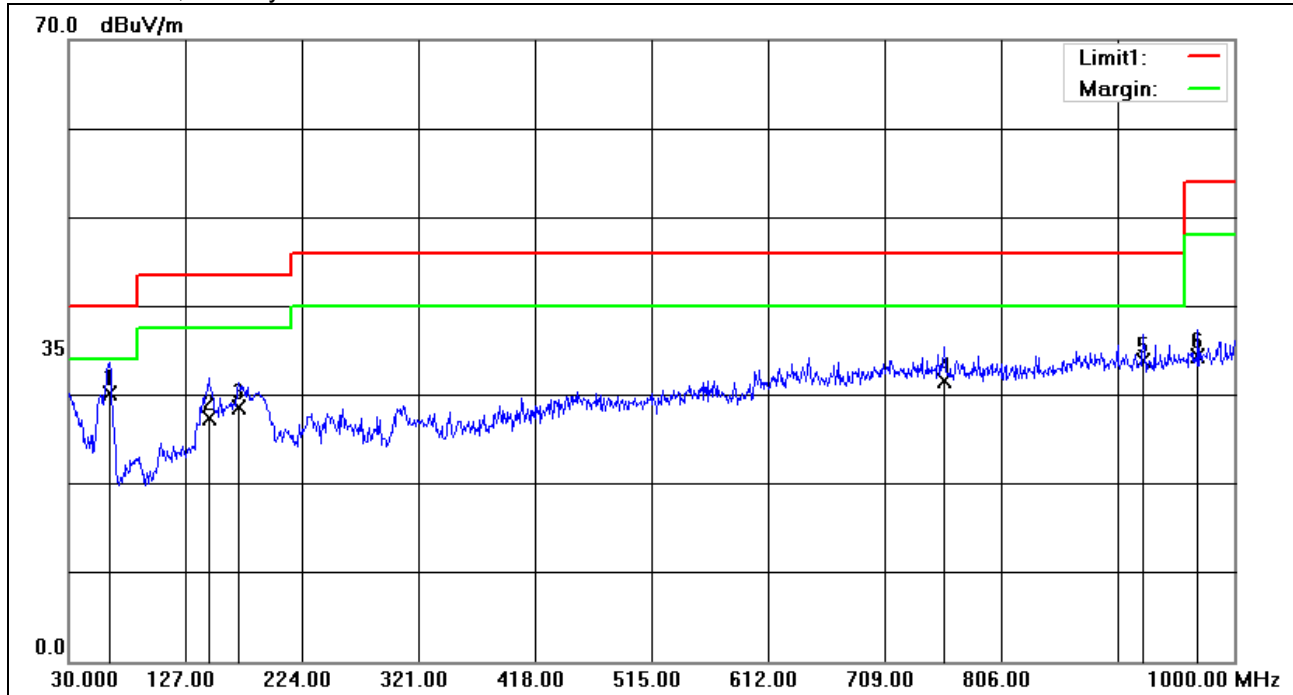
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 00; Polarity: Horizontal



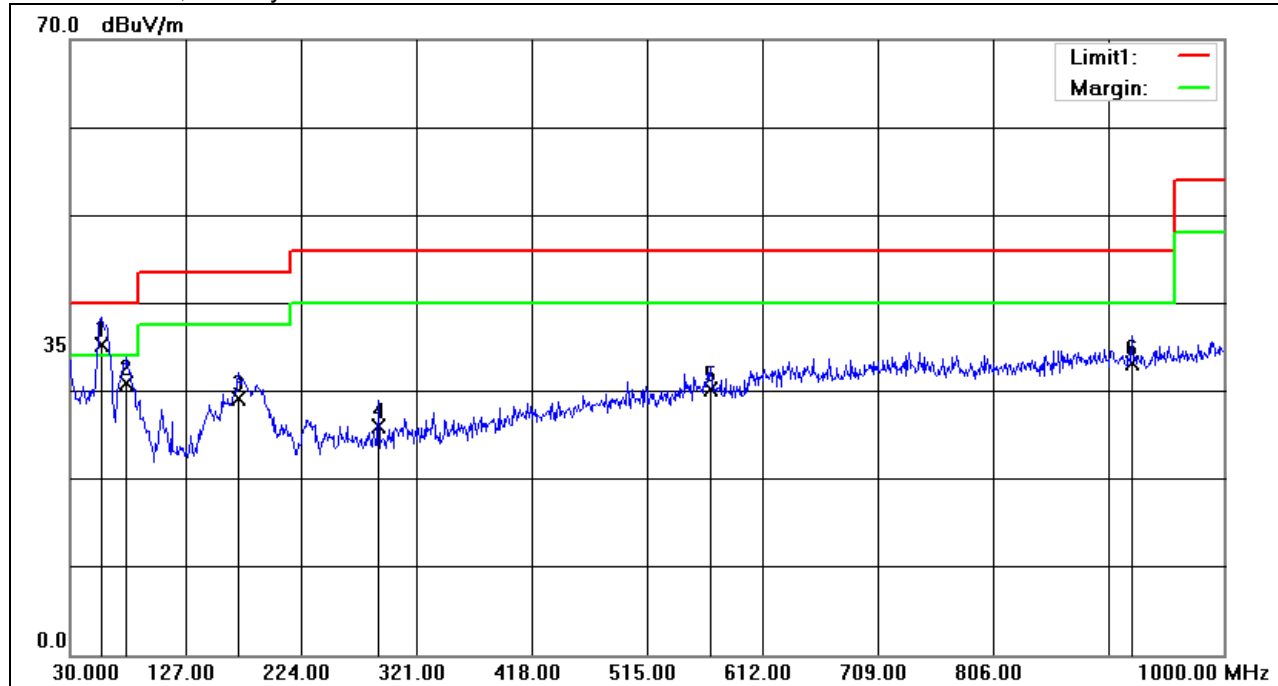
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	63.9500	15.38	14.78	30.16	40.00	-9.84	QP
2	146.4000	9.48	17.98	27.46	43.50	-16.04	QP
3	171.6200	11.64	16.90	28.54	43.50	-14.96	QP
4	758.4700	29.33	2.34	31.67	46.00	-14.33	QP
5	924.3400	31.29	2.54	33.83	46.00	-12.17	QP
6	969.9300	31.83	2.52	34.35	54.00	-19.65	QP



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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	56.1900	19.60	15.74	35.34	40.00	-4.66	QP
2	77.5300	16.39	14.47	30.86	40.00	-9.14	QP
3	171.6200	12.21	16.90	29.11	43.50	-14.39	QP
4	288.9900	5.49	20.46	25.95	46.00	-20.05	QP
5	568.3500	2.85	27.29	30.14	46.00	-15.86	QP
6	922.4000	30.63	2.53	33.16	46.00	-12.84	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2204000420AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2204000420AT



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10 Appendix

Appendix for KSCR220400042004

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.397	1.438	97.15	0.13	0.03
		5200	1.396	1.437	97.15	0.13	0.03
		5240	1.397	1.438	97.15	0.13	0.03
		5745	1.397	1.437	97.22	0.12	0.03
		5785	1.398	1.438	97.22	0.12	0.03
		5825	1.397	1.438	97.15	0.13	0.03
802.11n (HT20)	SISO	5180	1.309	1.350	96.96	0.13	0.03
		5200	1.309	1.350	96.96	0.13	0.03
		5240	1.309	1.350	96.96	0.13	0.03
		5745	1.309	1.349	97.03	0.13	0.07
		5785	1.309	1.350	96.96	0.13	0.03
		5825	1.309	1.349	97.03	0.13	0.03
802.11n (HT40)	SISO	5190	0.650	0.689	94.34	0.25	0.03
		5230	0.651	0.690	94.35	0.25	0.10
		5755	0.652	0.690	94.49	0.25	0.10
		5795	0.651	0.689	94.48	0.25	0.07
802.11ac (VHT20)	SISO	5180	1.317	1.357	97.05	0.13	0.03
		5200	1.317	1.357	97.05	0.13	0.03
		5240	1.316	1.357	96.98	0.13	0.07
		5745	1.317	1.358	96.98	0.13	0.07
		5785	1.316	1.357	96.98	0.13	0.03
		5825	1.316	1.357	96.98	0.13	0.03
802.11ac (VHT40)	SISO	5190	0.658	0.697	94.40	0.25	0.03
		5230	0.658	0.697	94.40	0.25	0.04
		5755	0.660	0.698	94.56	0.24	0.03
		5795	0.659	0.697	94.55	0.24	0.03



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802.11ac (VHT80)	SISO	5210	0.327	0.366	89.34	0.49	0.03
		5775	0.328	0.365	89.86	0.46	0.14



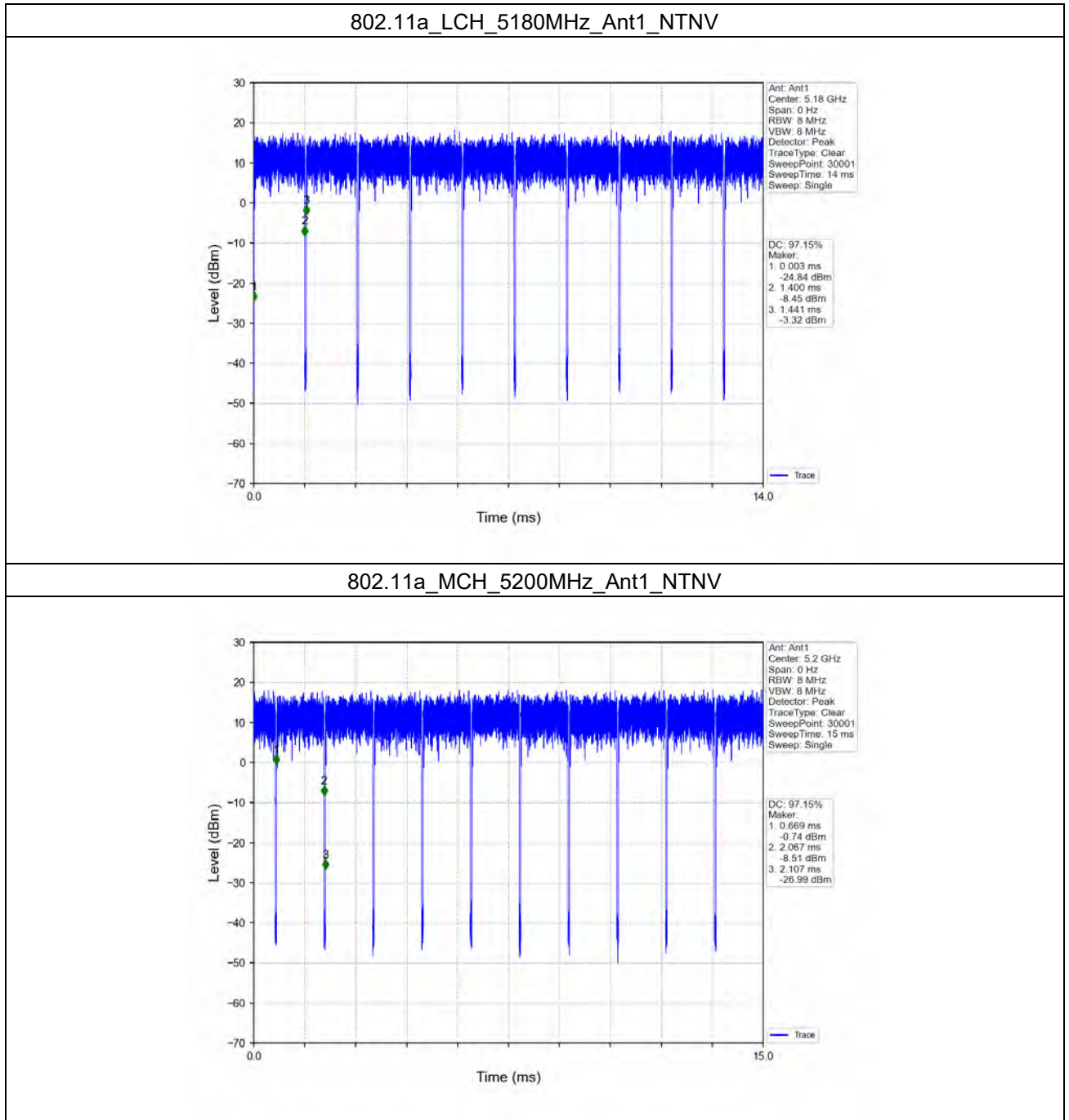
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1.1.2 Test Graph



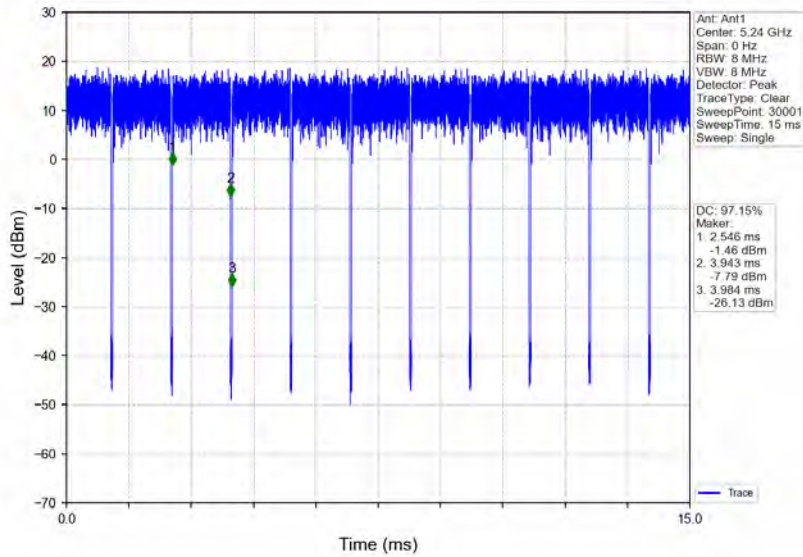
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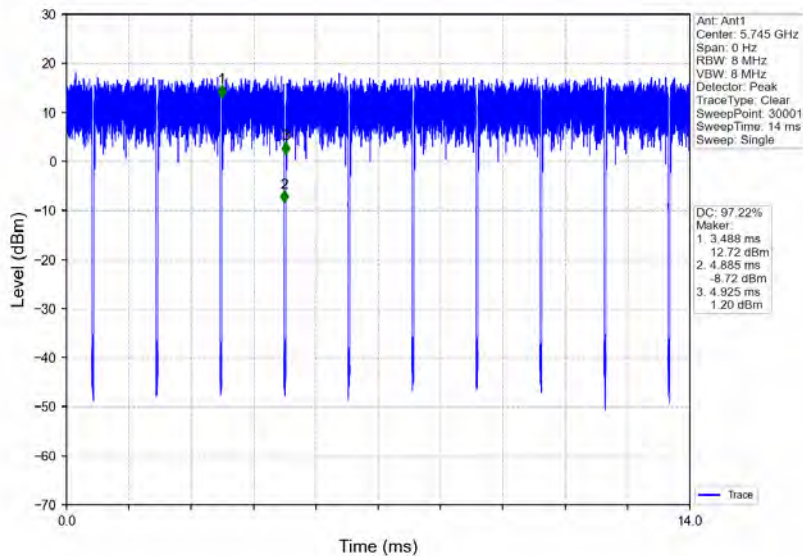
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



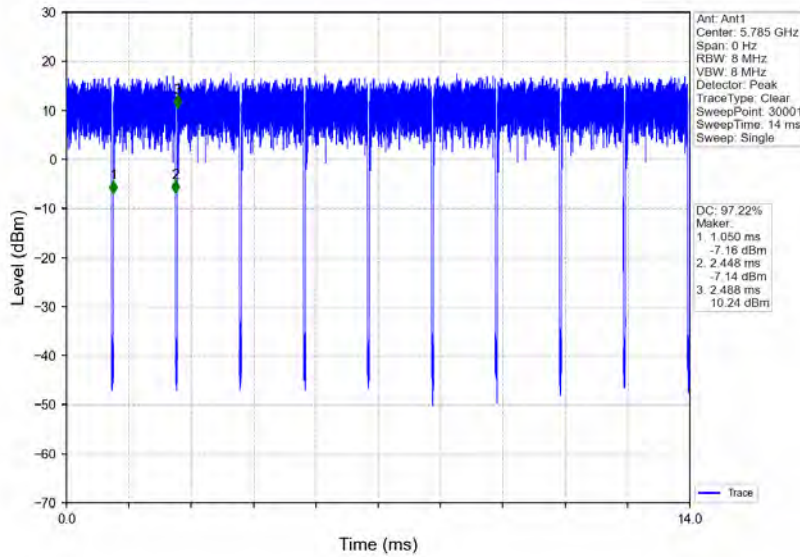
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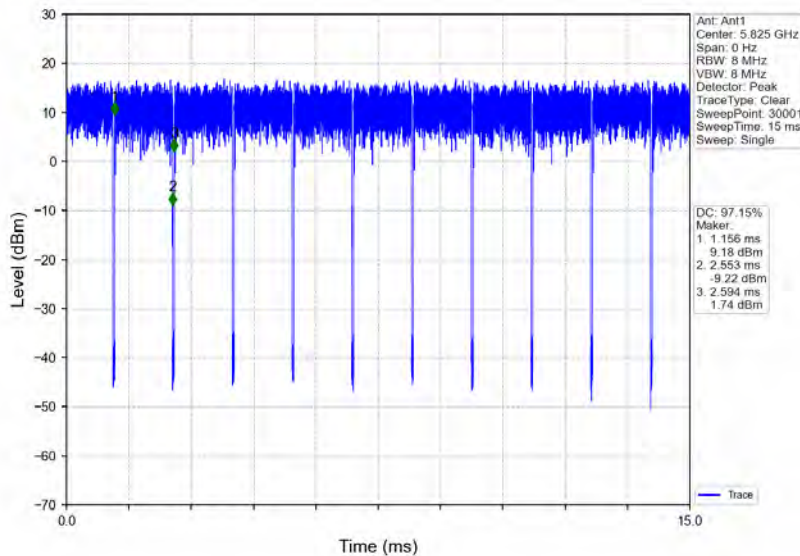
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



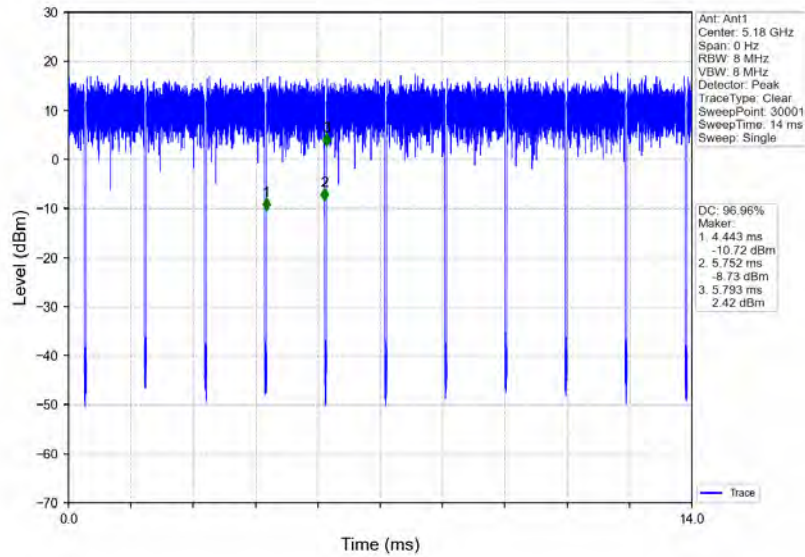
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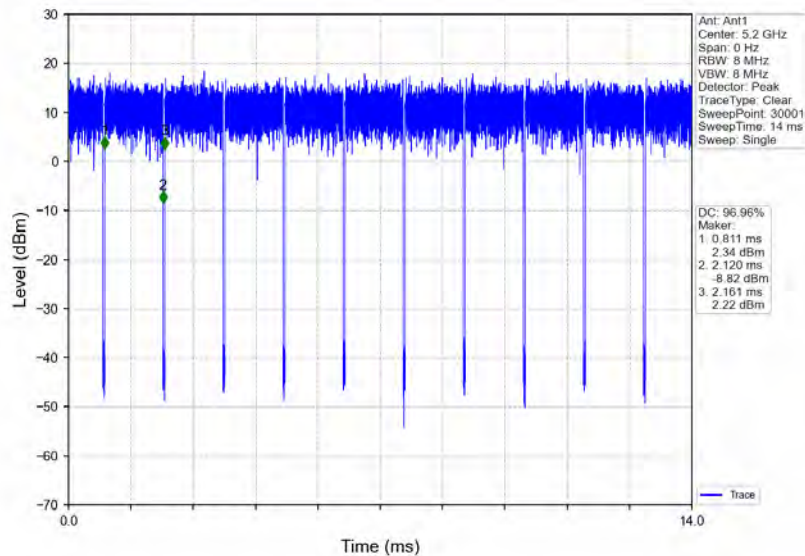
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



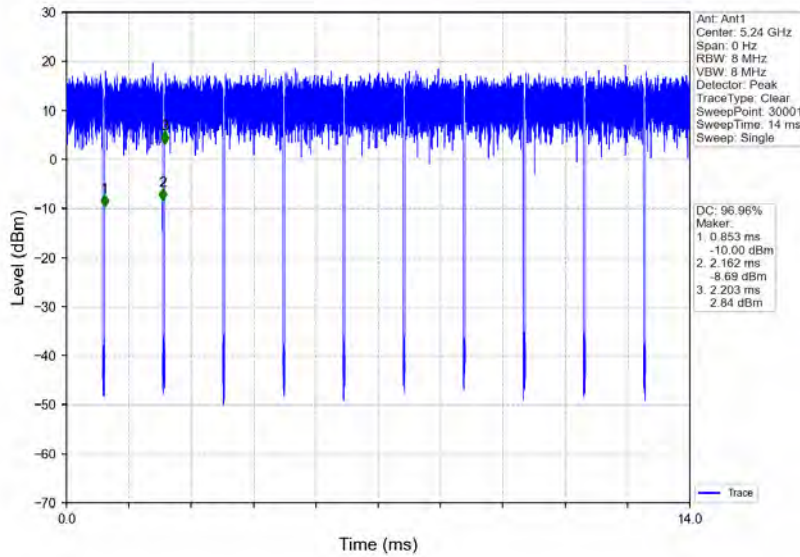
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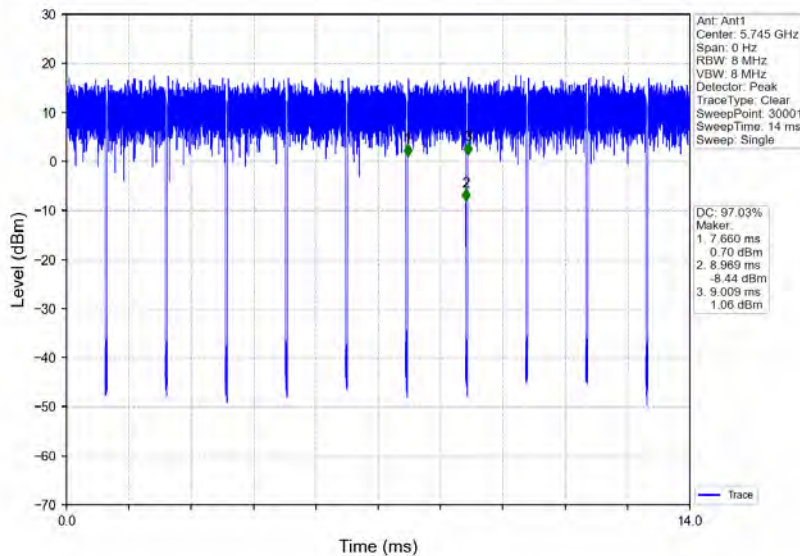
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



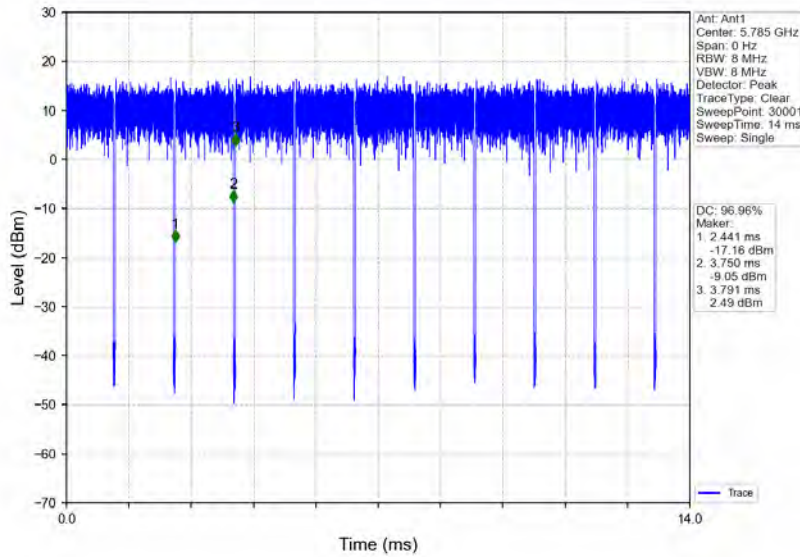
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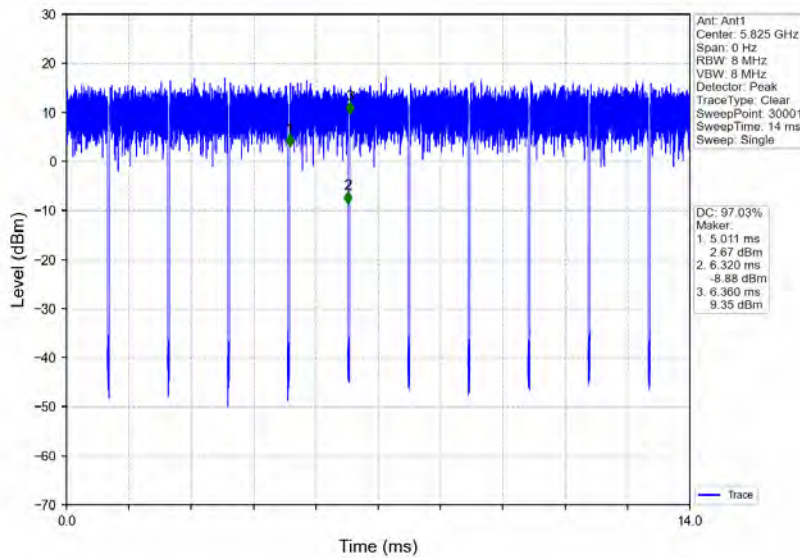
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



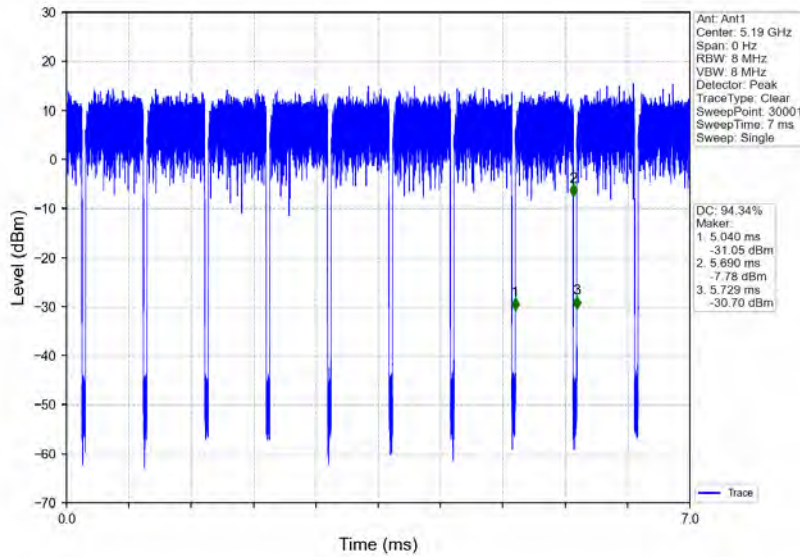
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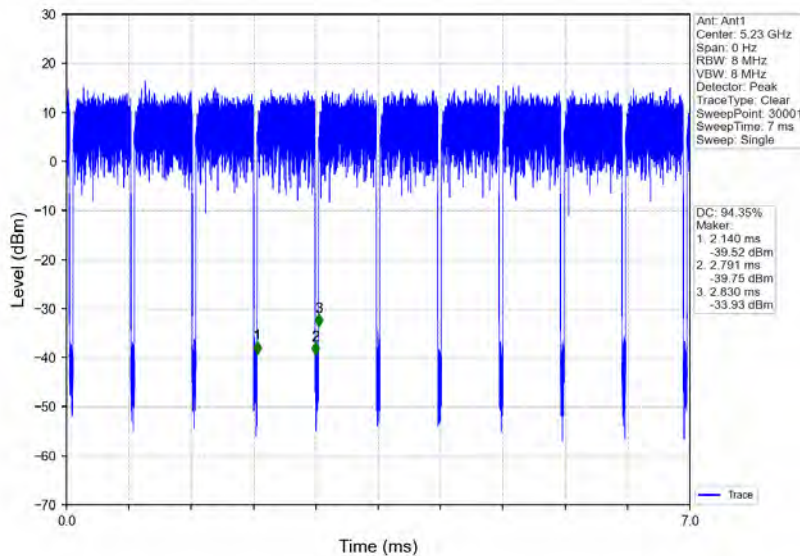
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



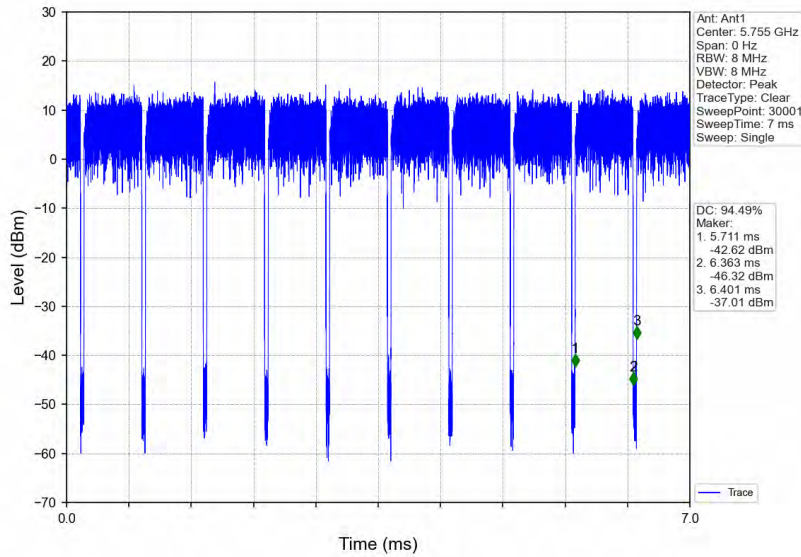
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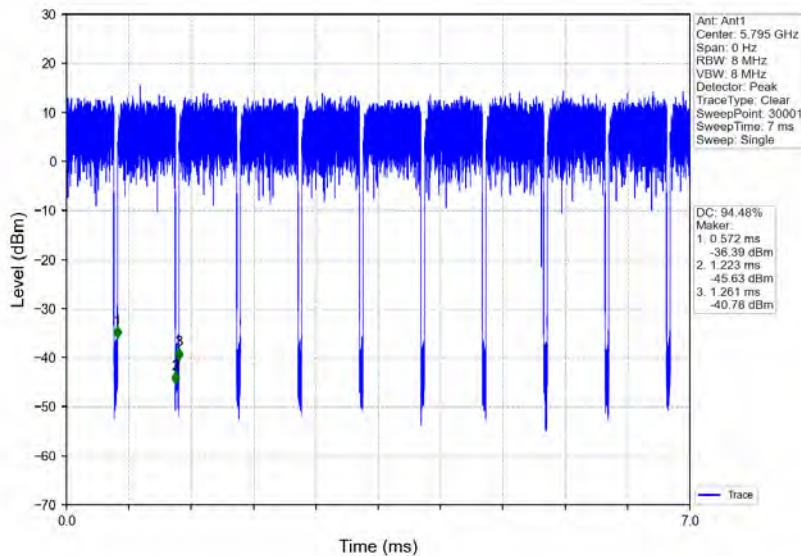
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



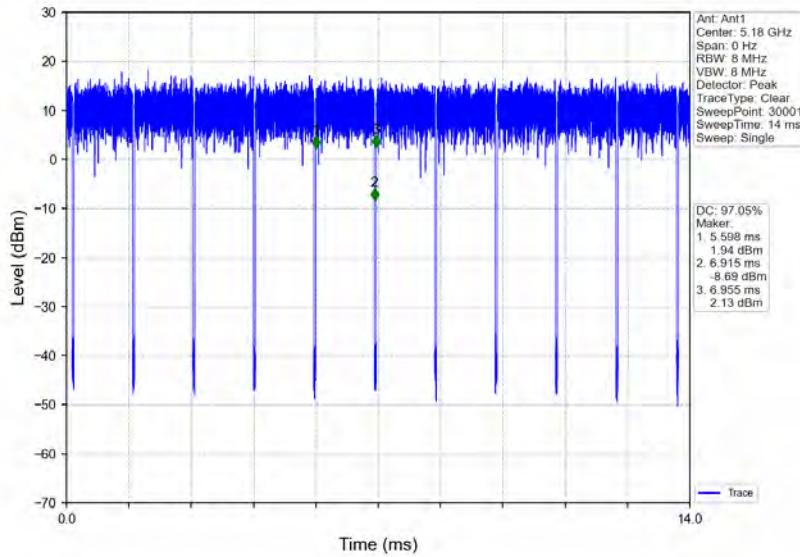
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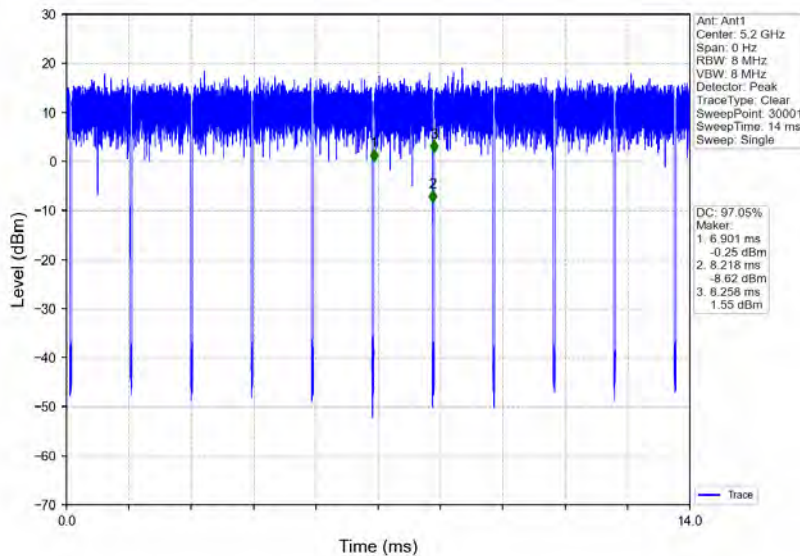
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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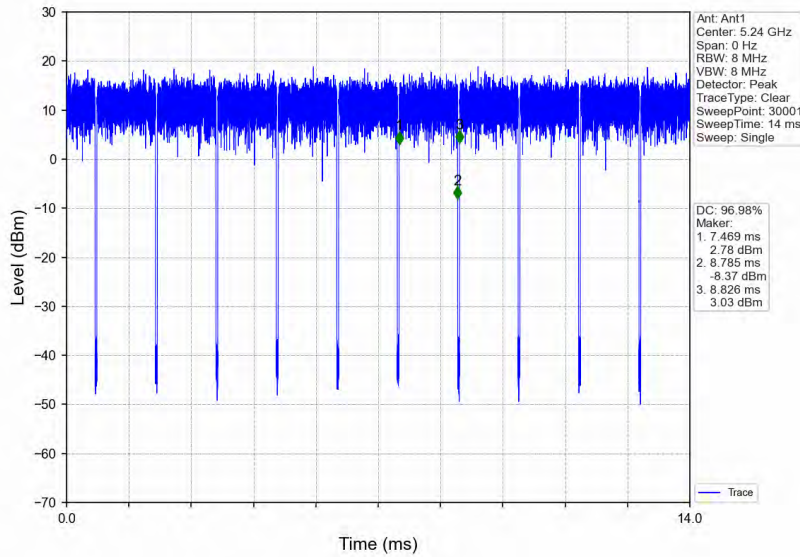
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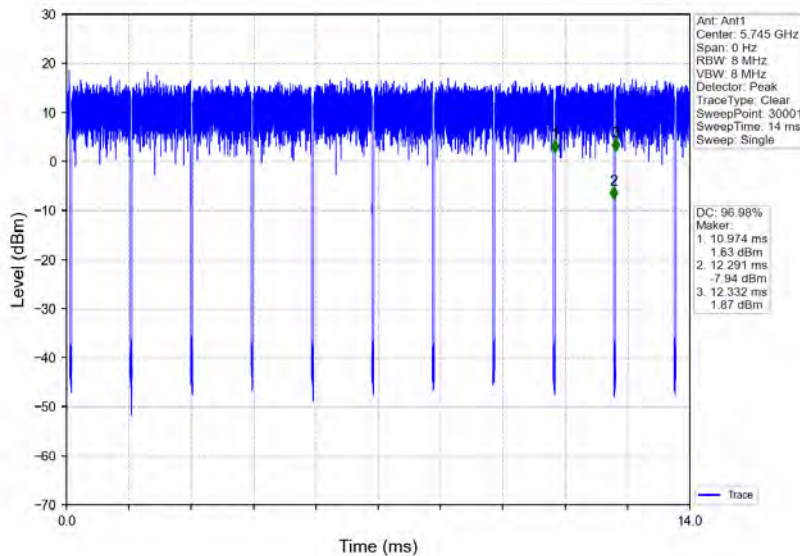
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



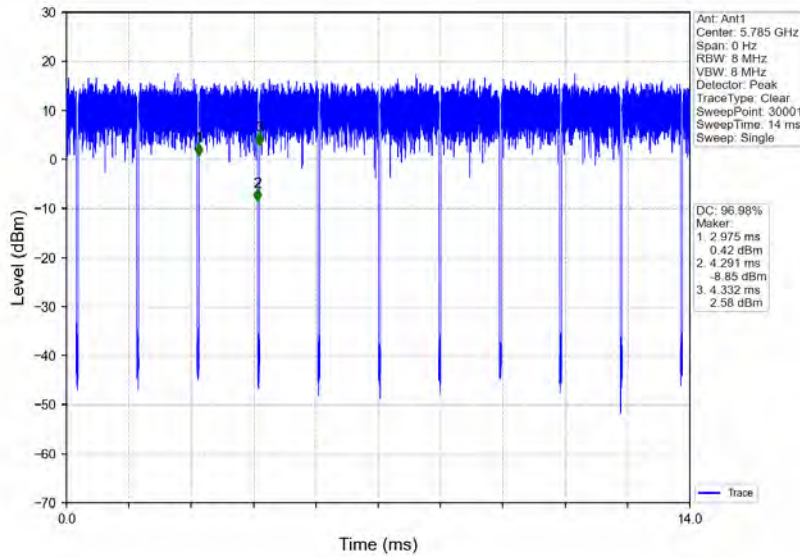
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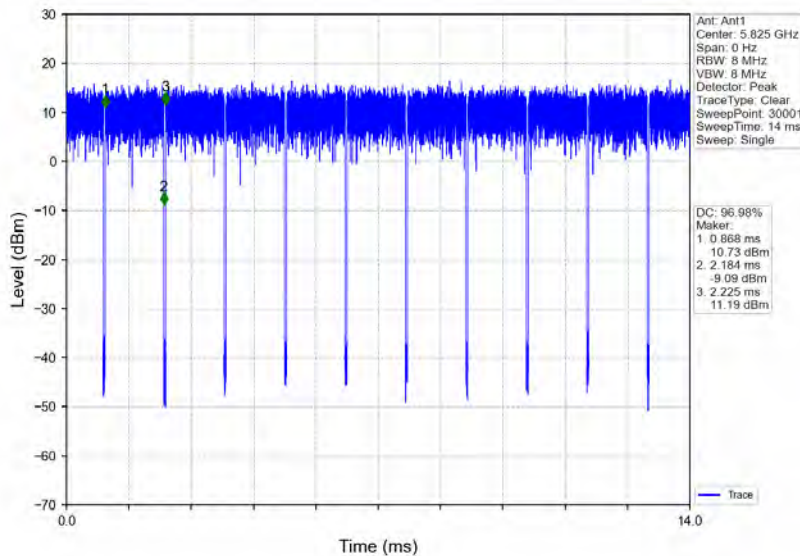
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



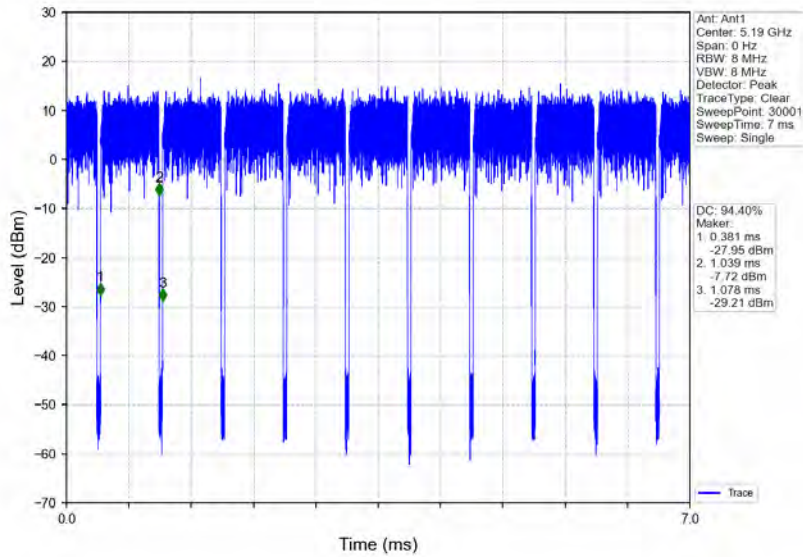
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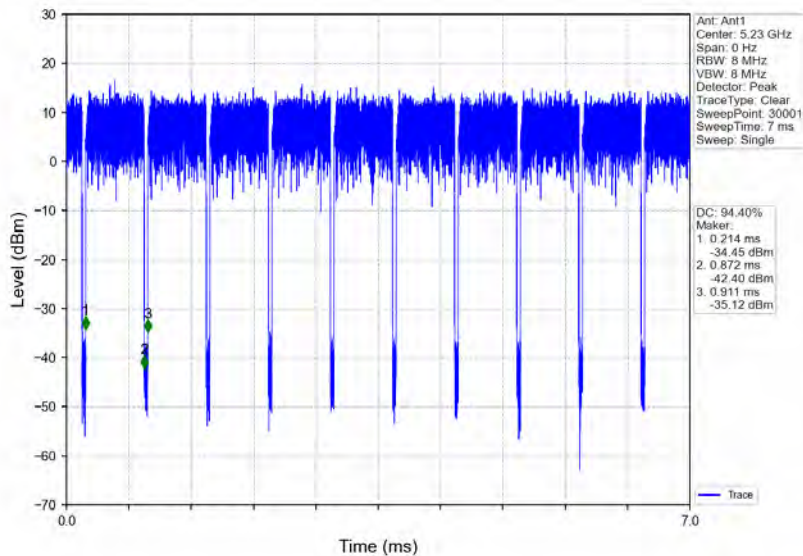
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



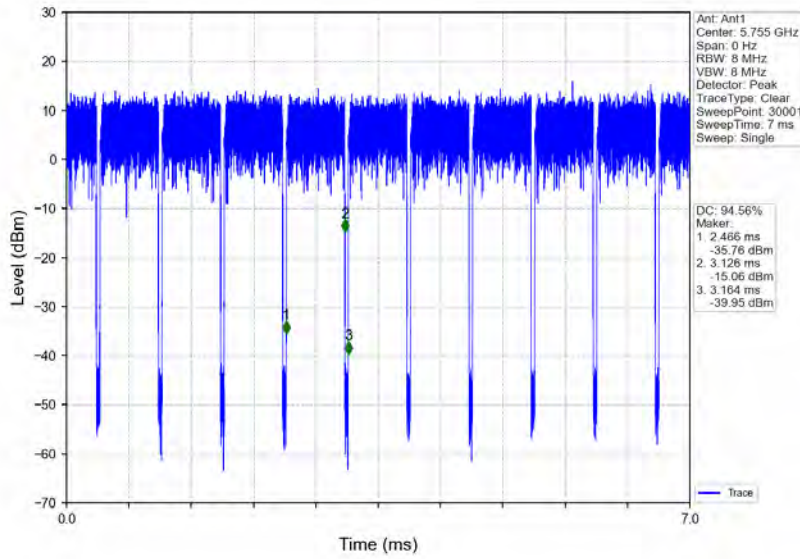
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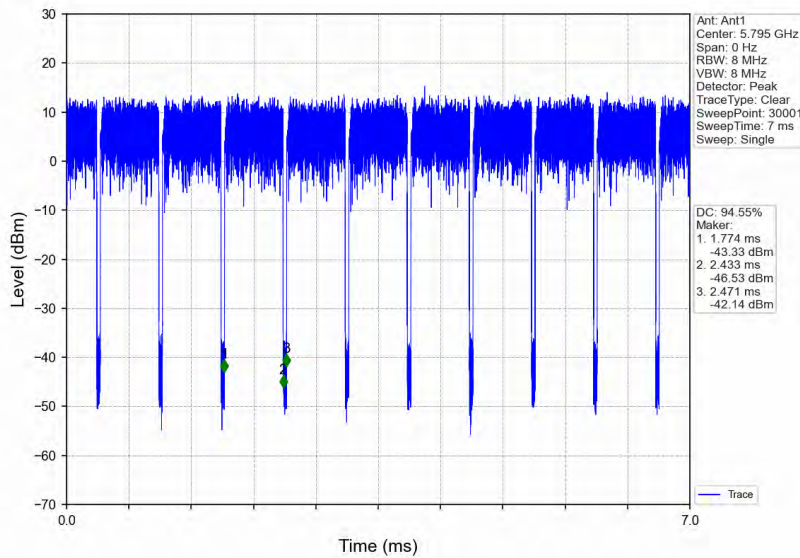
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



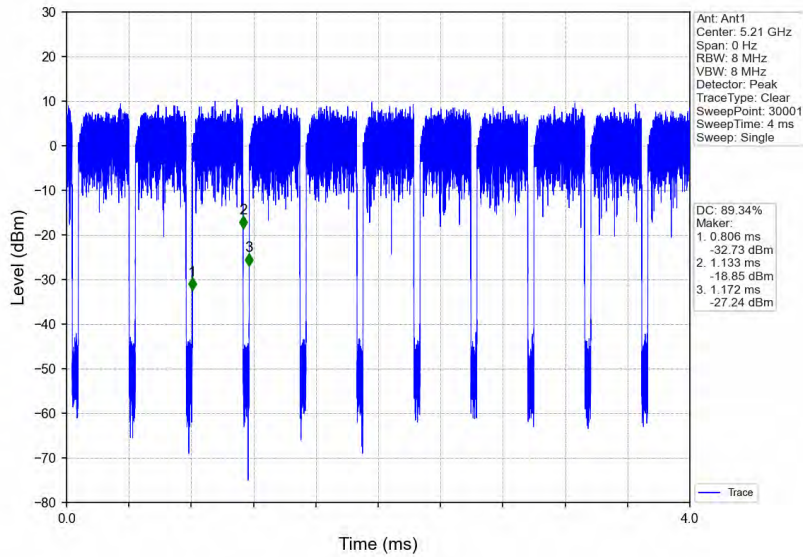
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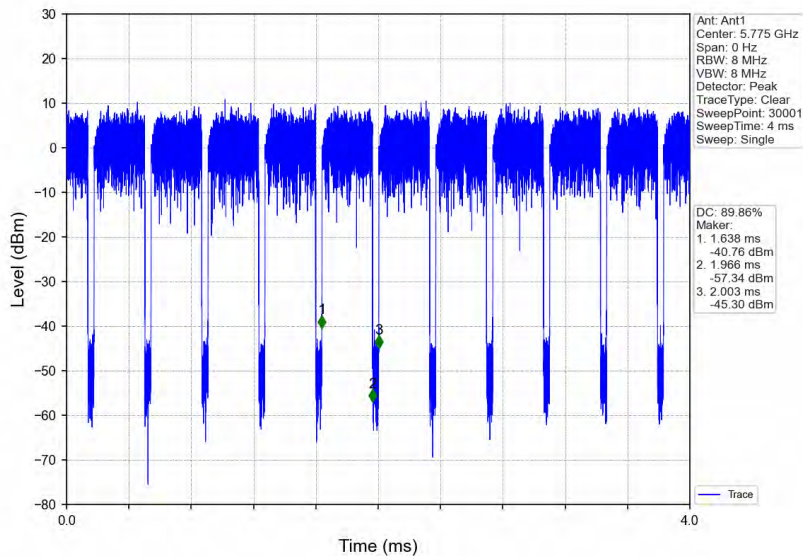
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_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	17.999	Pass
		5200	1	17.897	Pass
		5240	1	18.037	Pass
		5745	1	19.115	Pass
		5785	1	18.946	Pass
		5825	1	18.691	Pass
802.11n (HT20)	SISO	5180	1	18.743	Pass
		5200	1	18.792	Pass
		5240	1	18.736	Pass
		5745	1	19.939	Pass
		5785	1	20.117	Pass
		5825	1	19.254	Pass
802.11n (HT40)	SISO	5190	1	36.654	Pass
		5230	1	36.566	Pass
		5755	1	37.821	Pass
		5795	1	39.766	Pass
802.11ac (VHT20)	SISO	5180	1	18.812	Pass
		5200	1	18.783	Pass
		5240	1	18.832	Pass
		5745	1	19.968	Pass
		5785	1	19.944	Pass
		5825	1	19.231	Pass
802.11ac (VHT40)	SISO	5190	1	36.538	Pass
		5230	1	36.546	Pass
		5755	1	38.783	Pass
		5795	1	41.167	Pass
802.11ac (VHT80)	SISO	5210	1	76.122	Pass
		5775	1	78.289	Pass



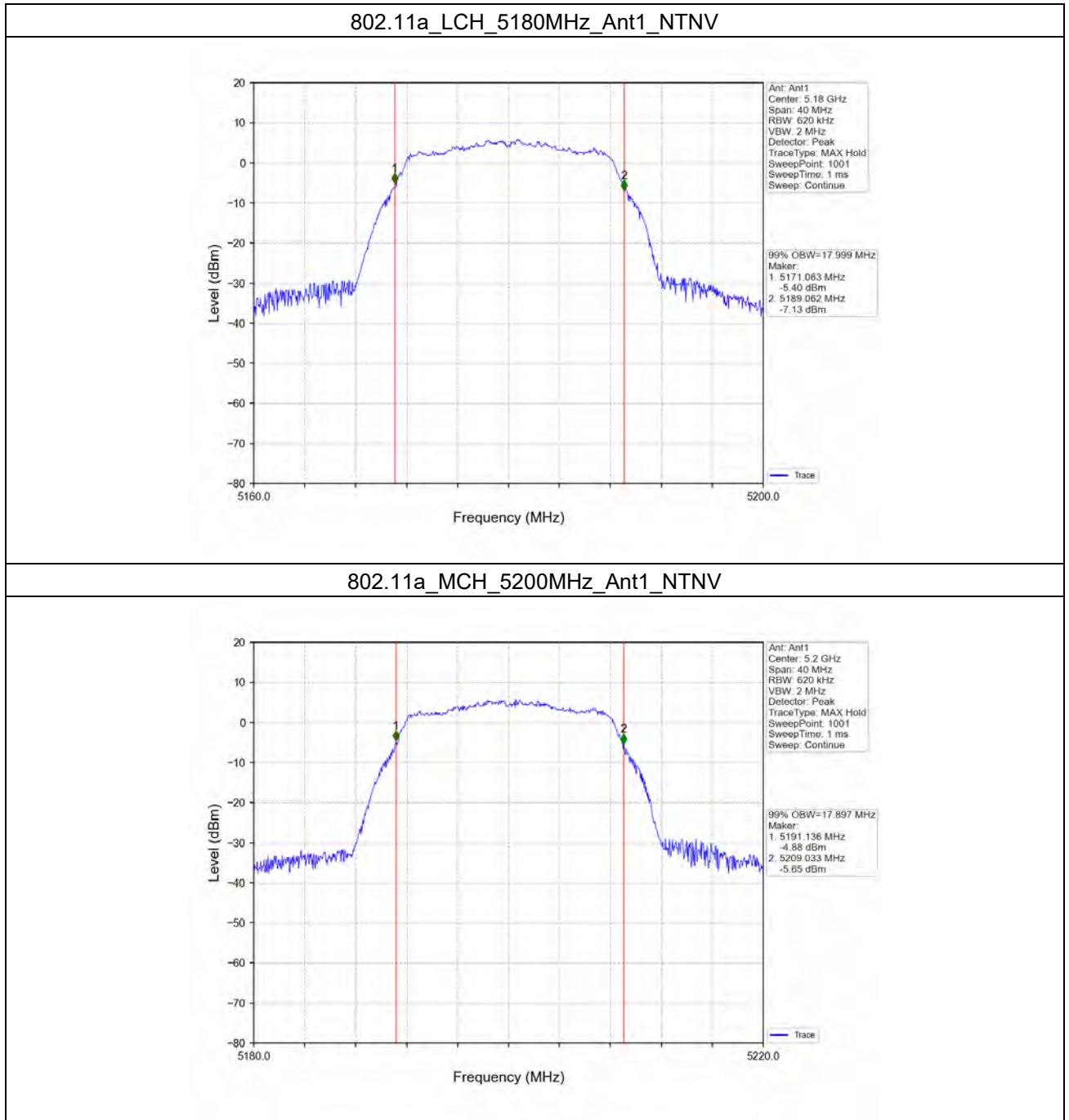
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2.1.2 Test Graph

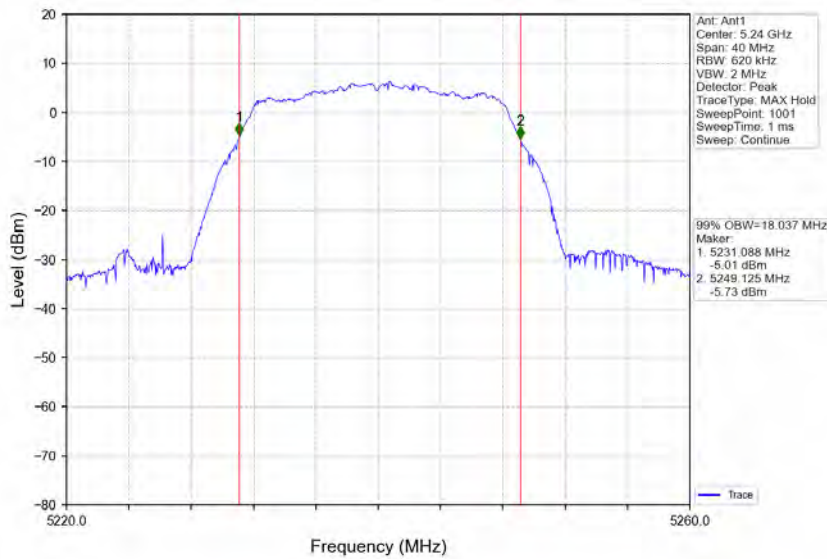


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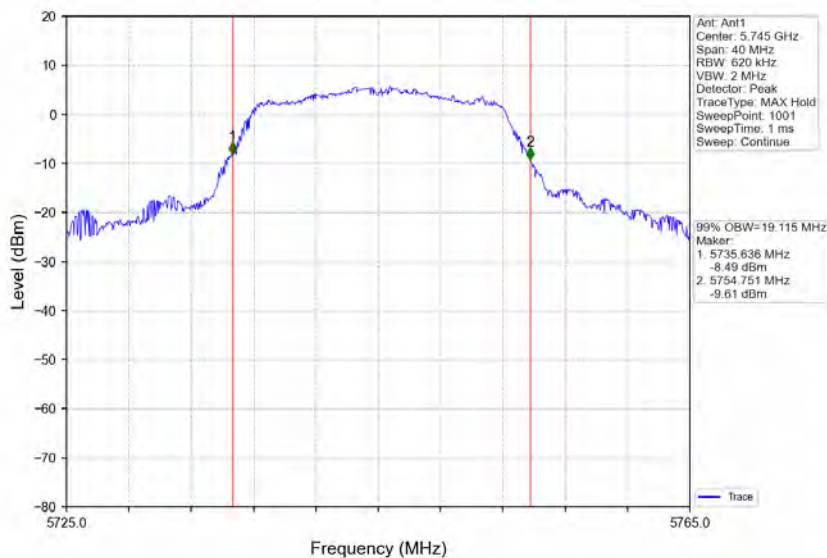
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



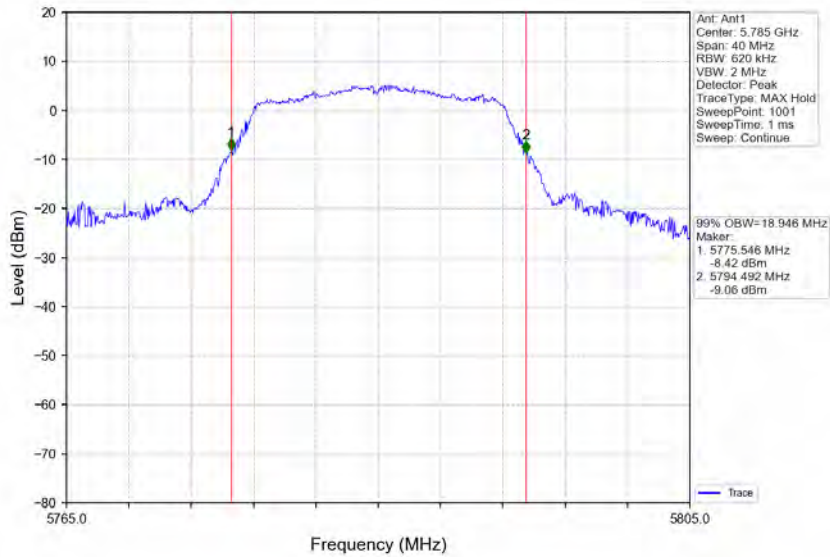
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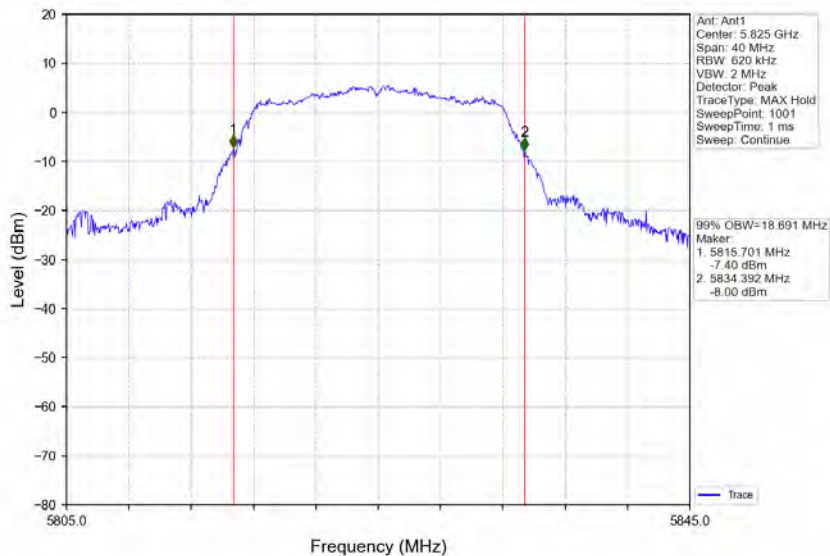
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



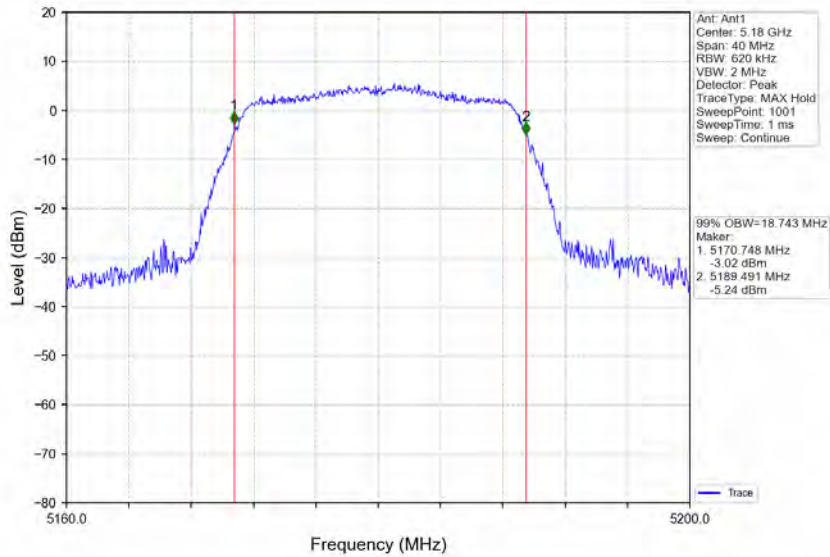
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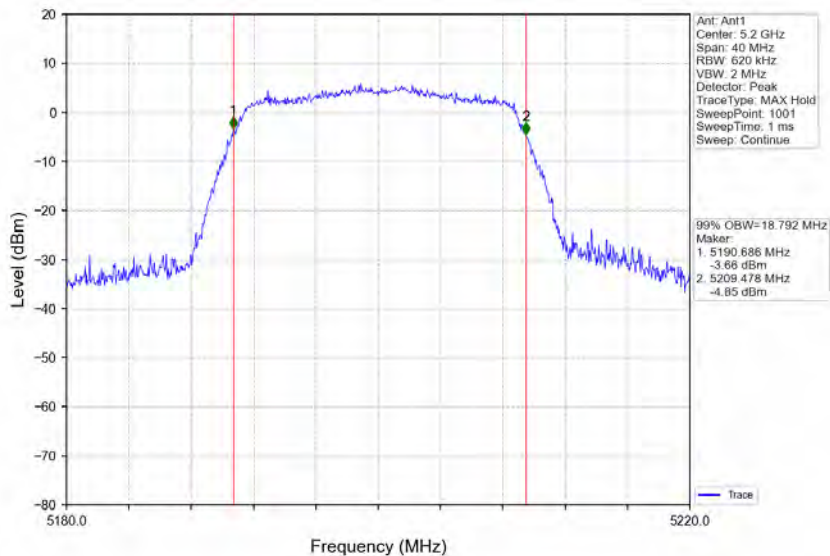
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



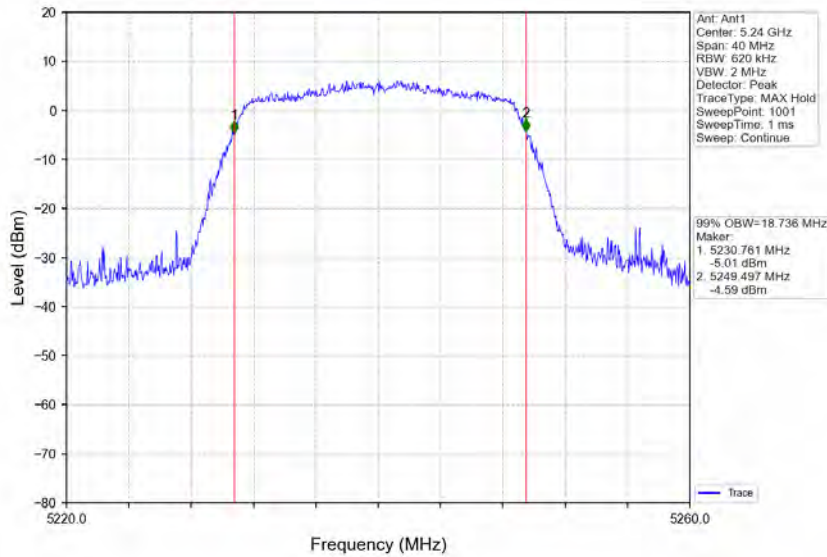
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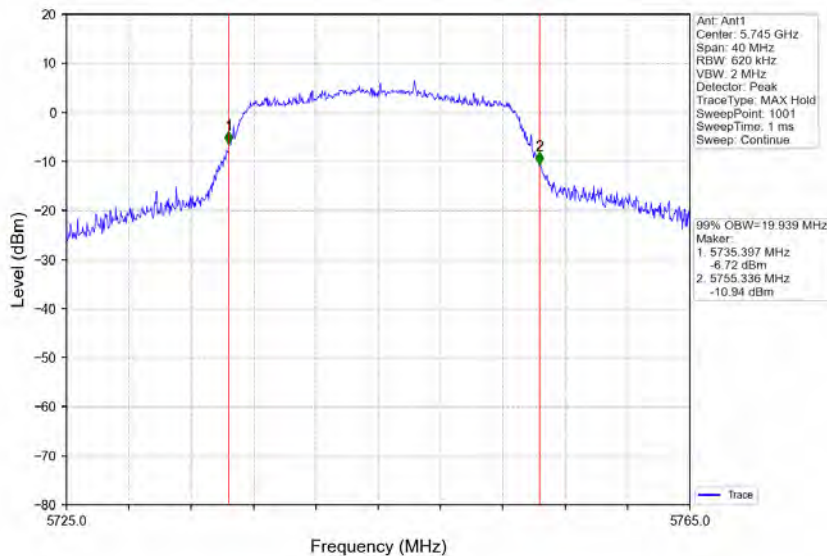
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



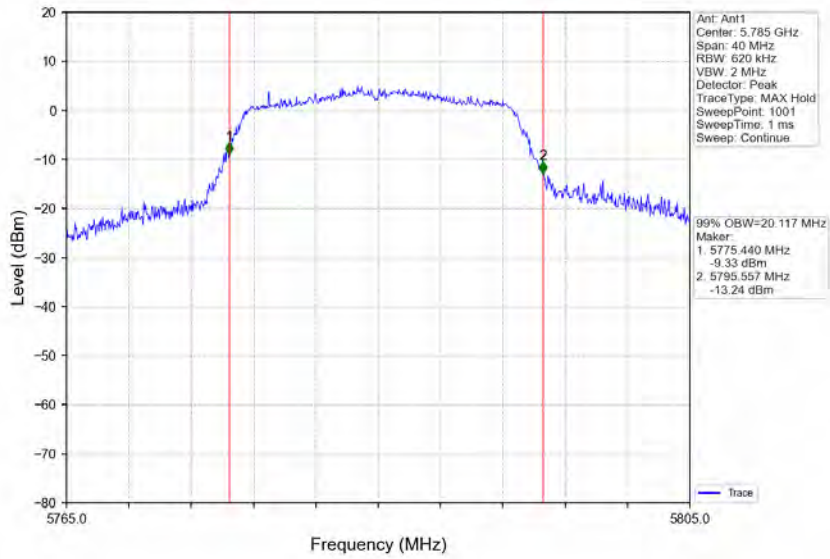
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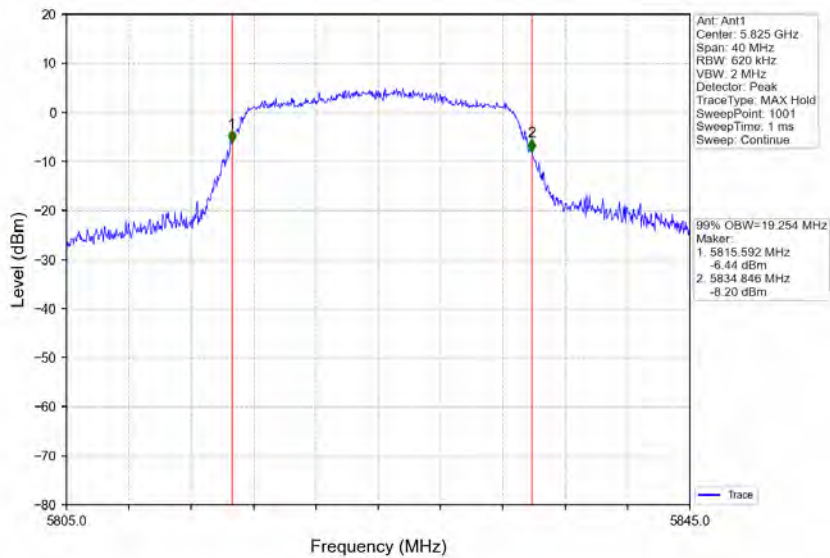
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



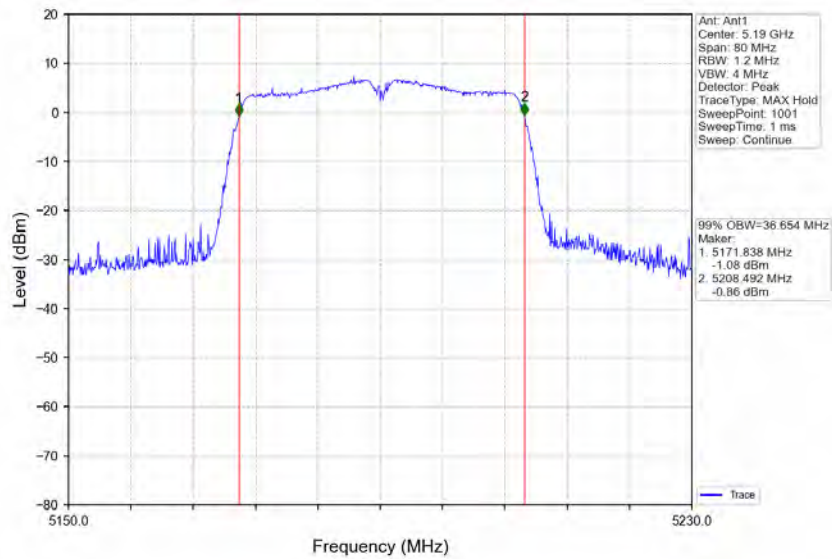
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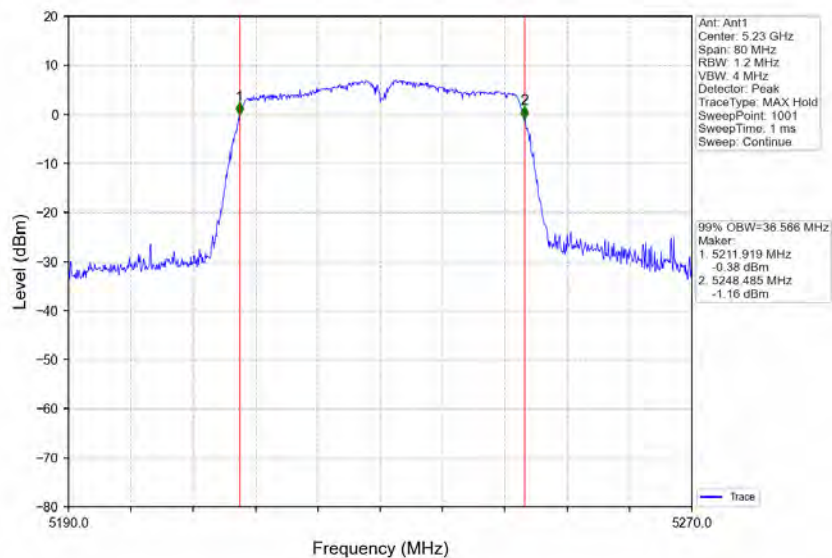
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



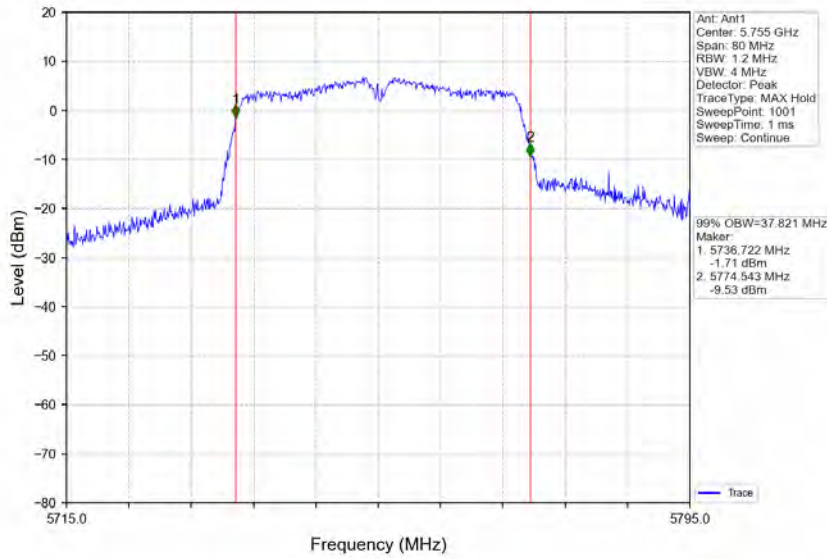
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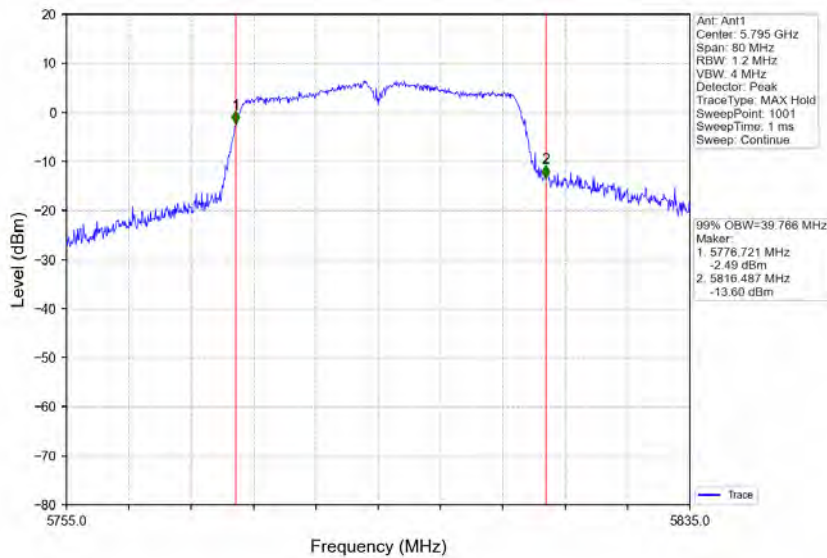
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



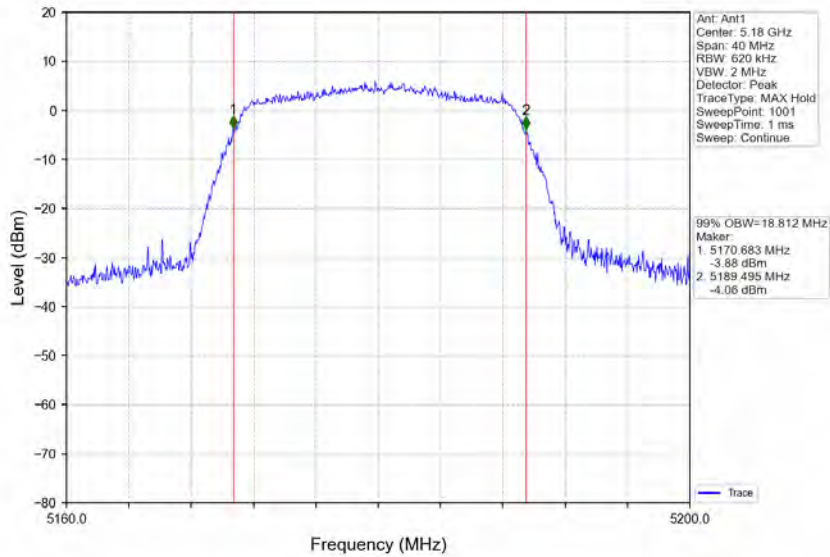
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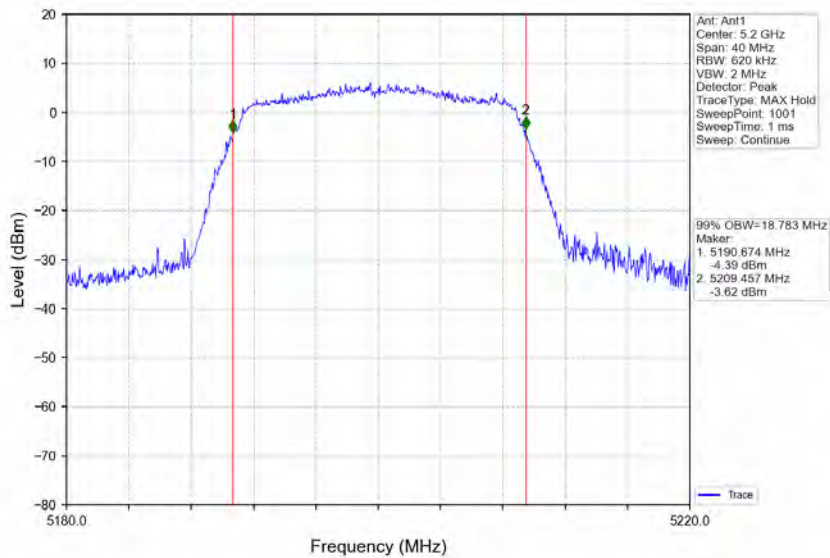
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



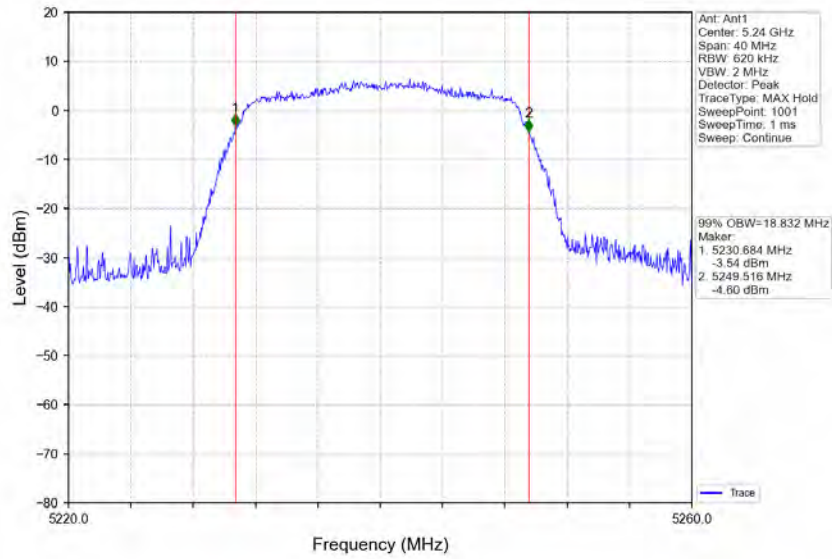
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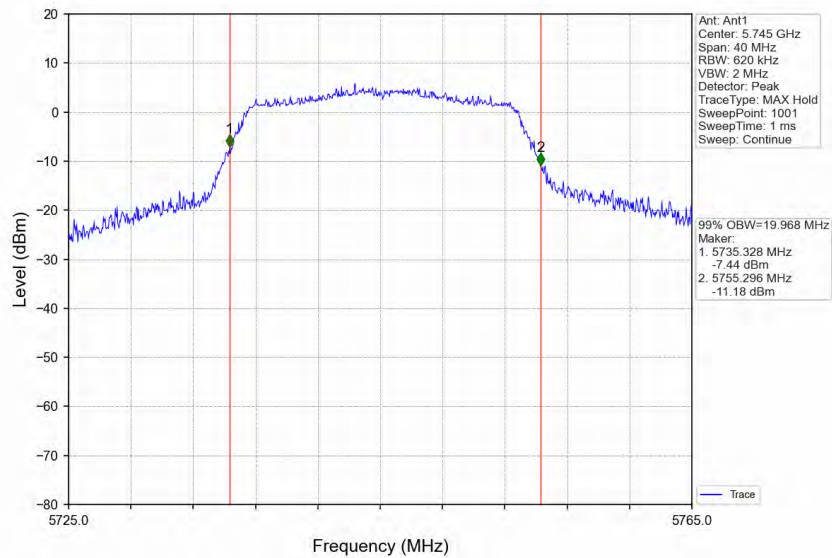
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



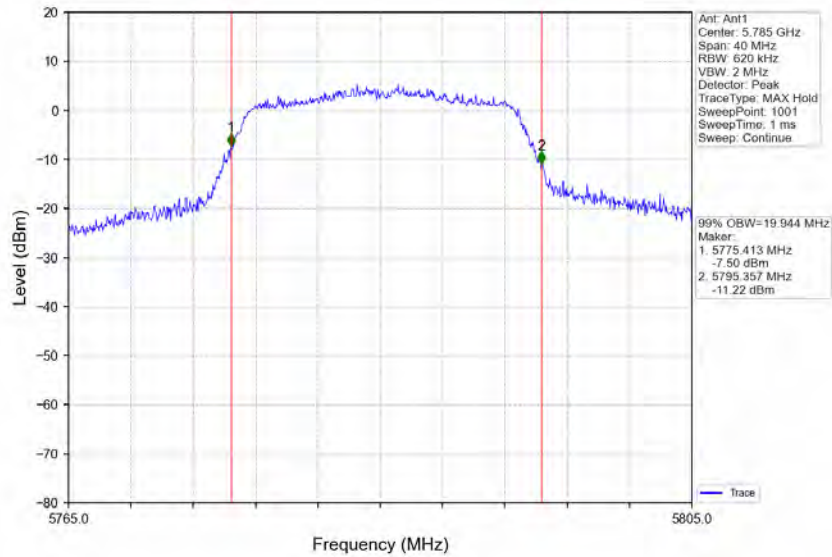
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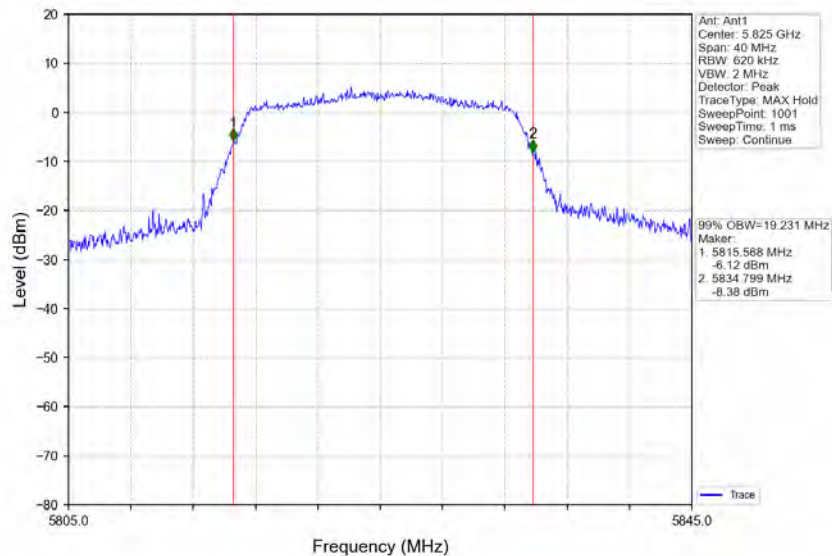
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



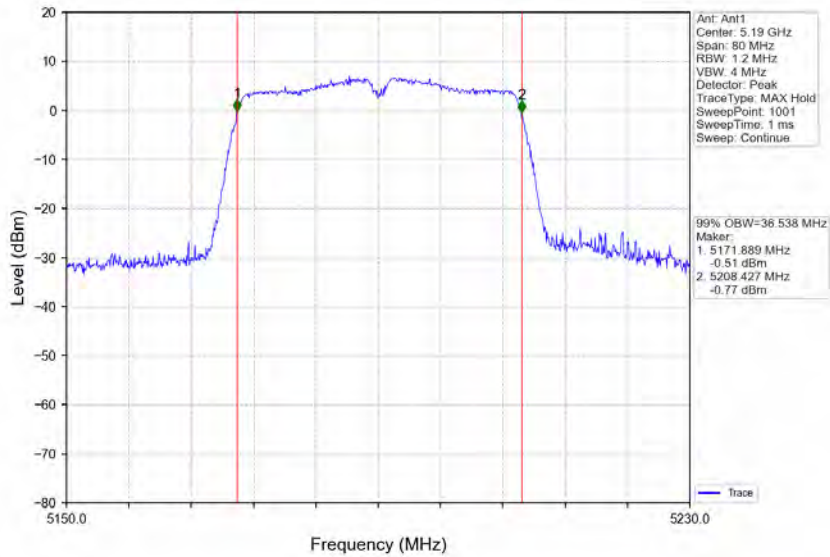
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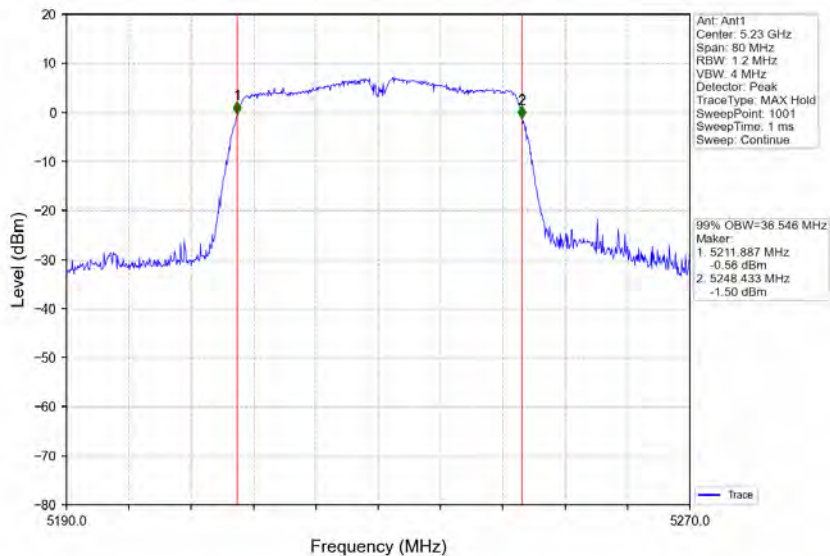
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



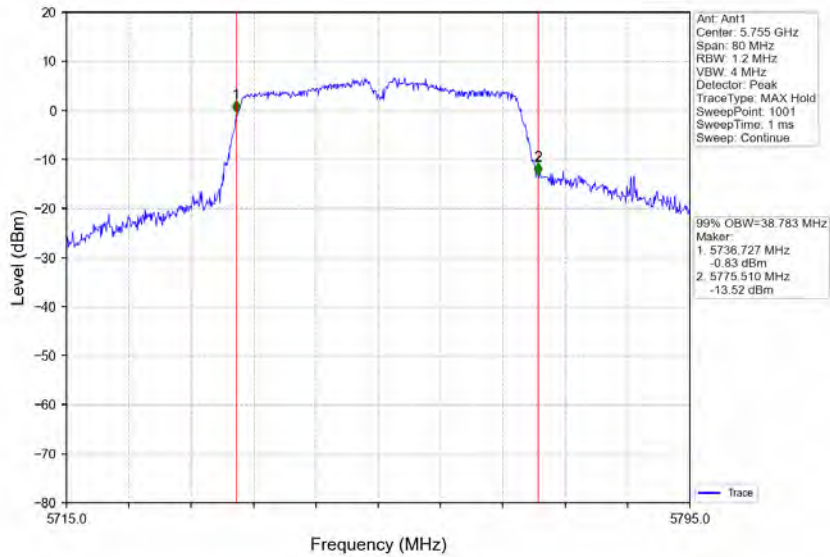
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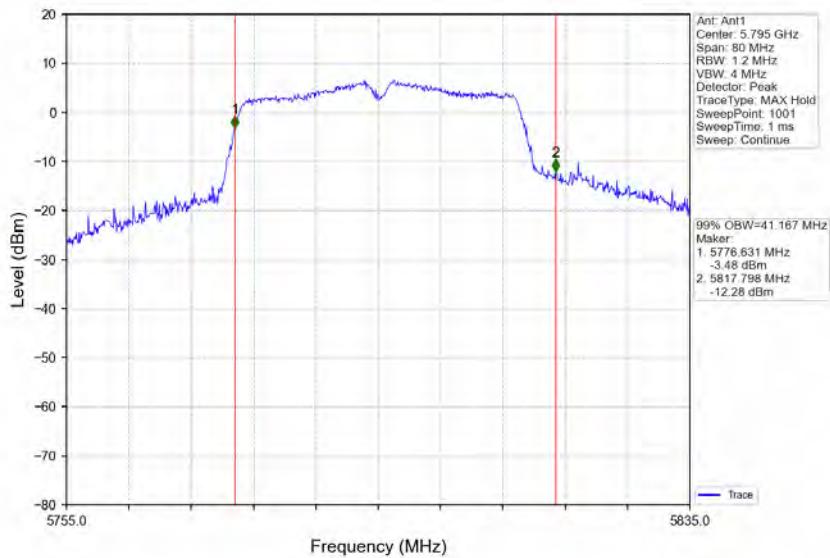
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



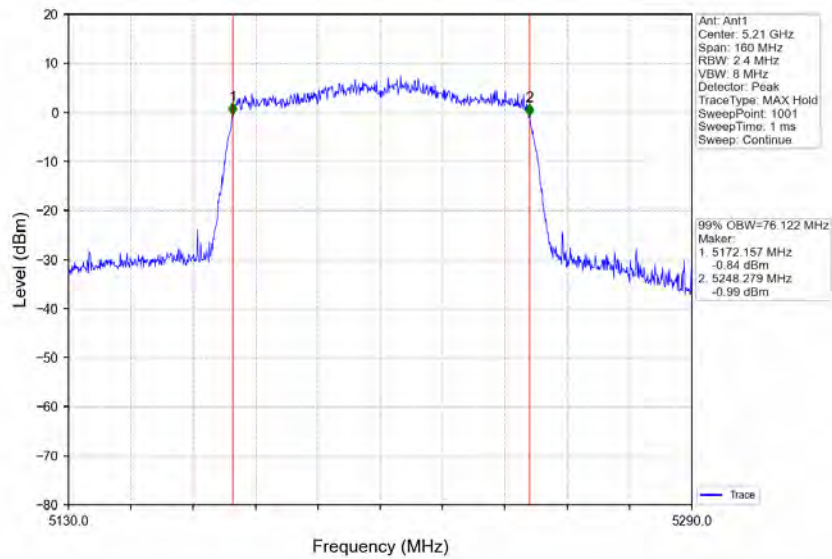
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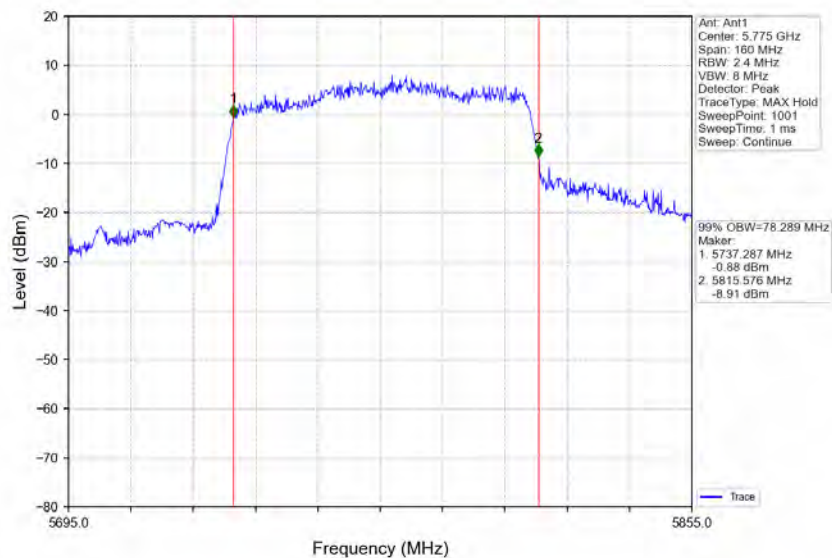
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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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	16.355	>=0.5	Pass
		5785	1	16.355	>=0.5	Pass
		5825	1	16.349	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.540	>=0.5	Pass
		5785	1	17.316	>=0.5	Pass
		5825	1	17.546	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	36.071	>=0.5	Pass
		5795	1	35.774	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.572	>=0.5	Pass
		5785	1	17.320	>=0.5	Pass
		5825	1	17.060	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.054	>=0.5	Pass
		5795	1	35.741	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.468	>=0.5	Pass



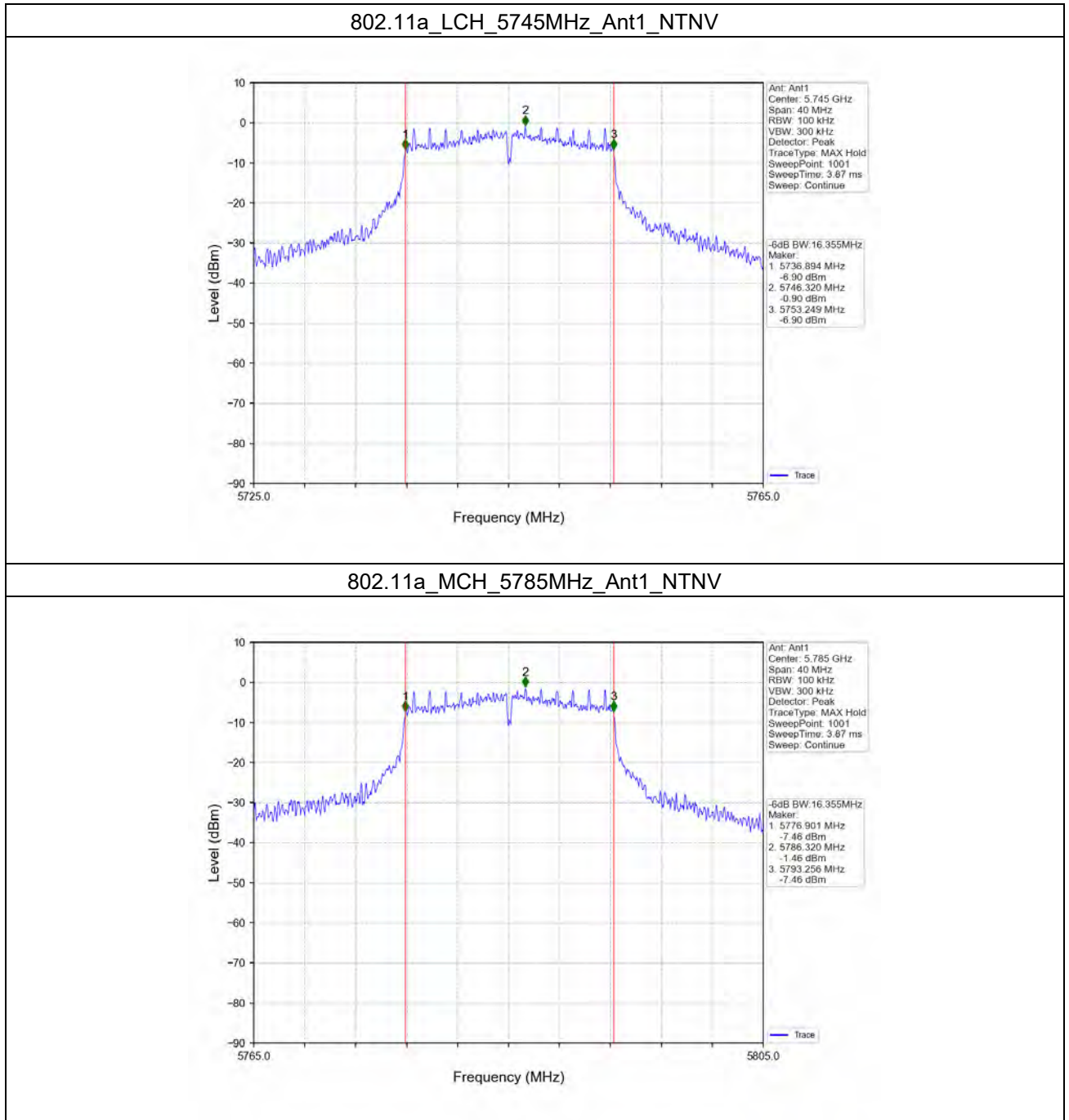
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2.2.2 Test Graph



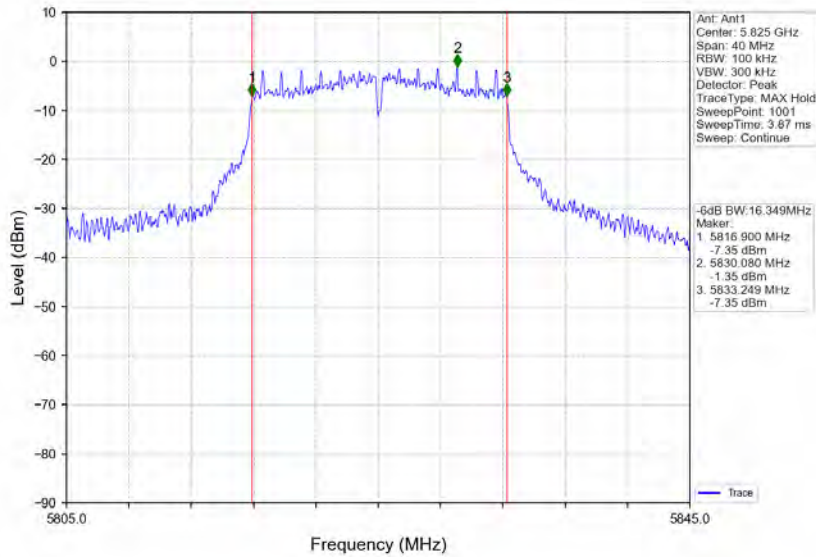
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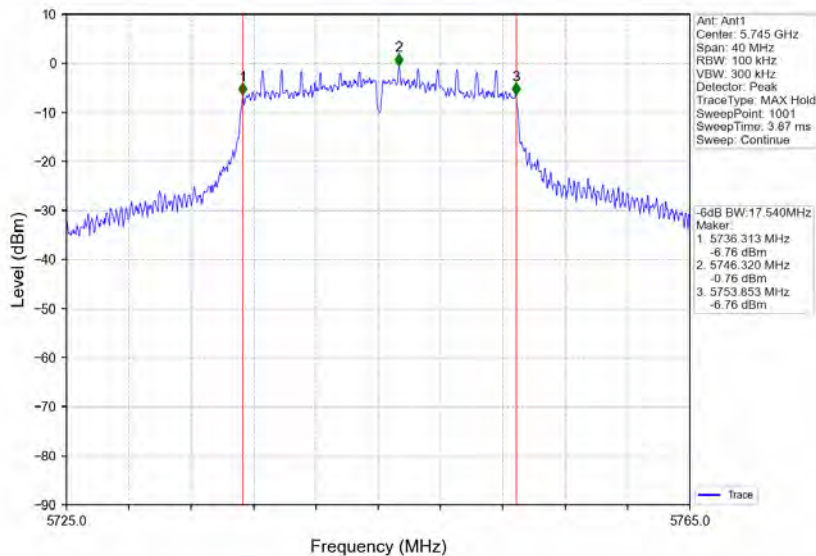
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



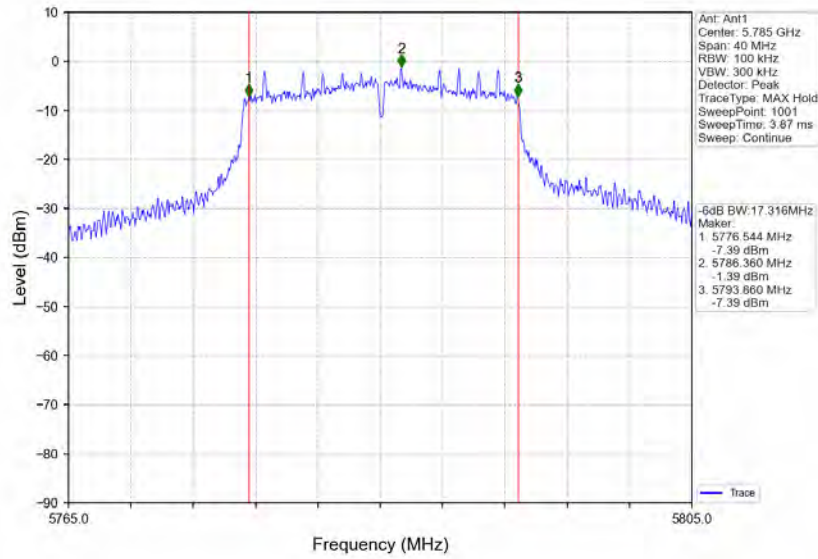
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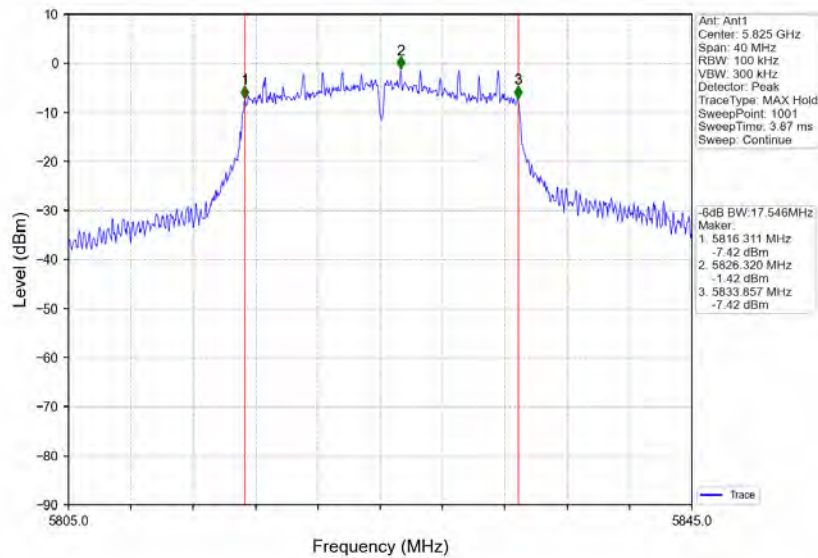
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



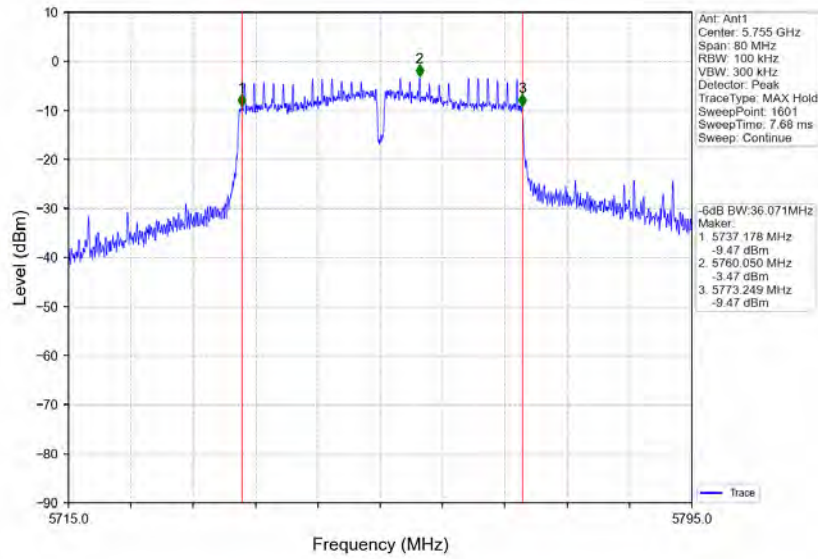
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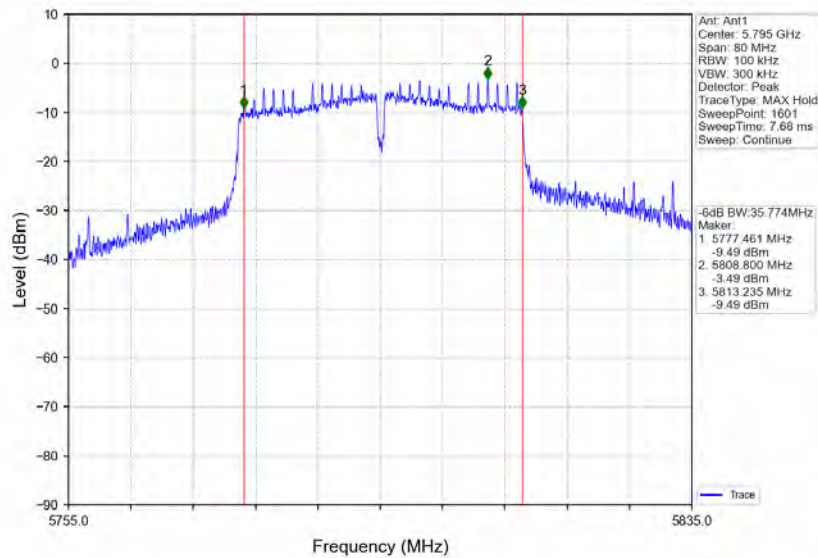
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



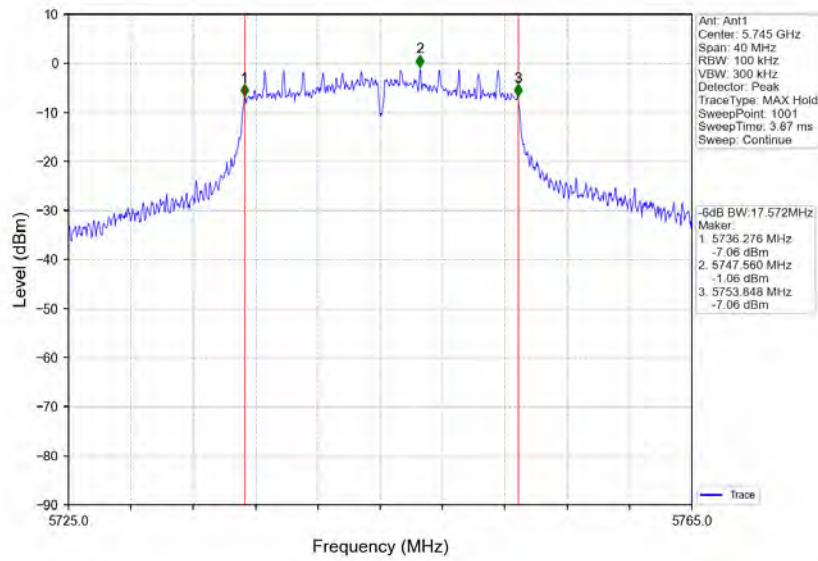
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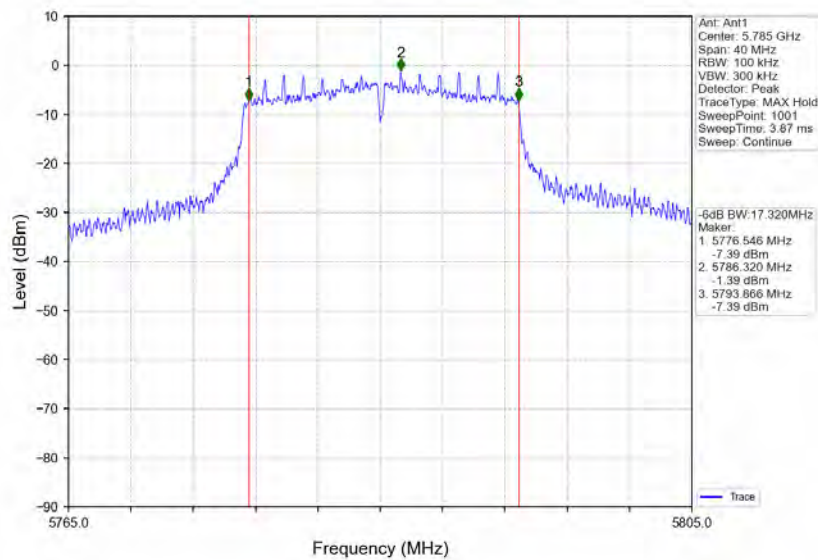
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



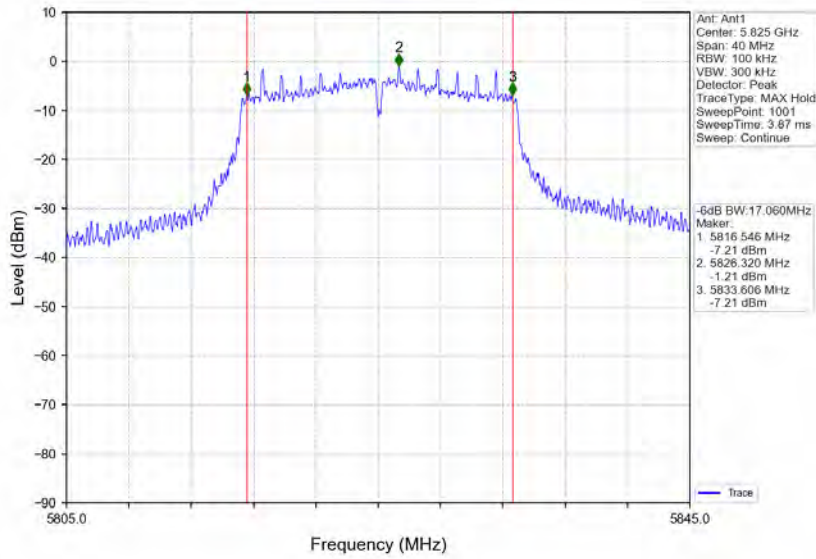
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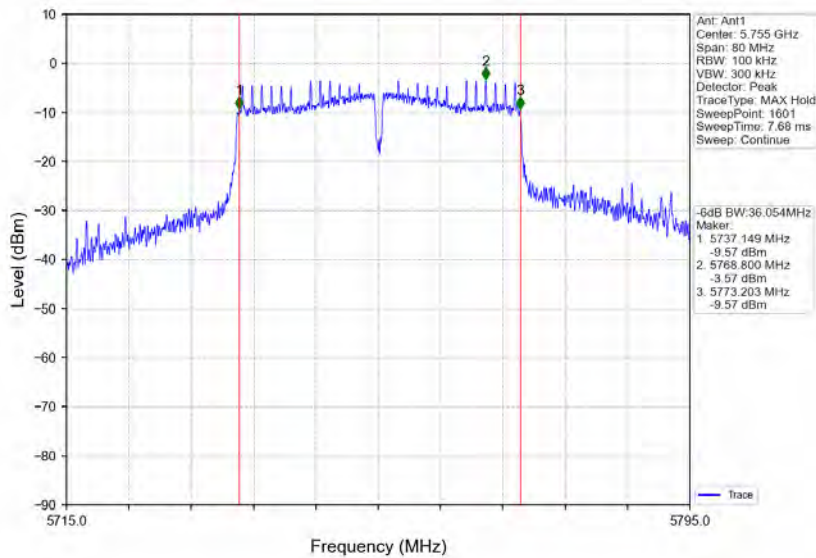
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



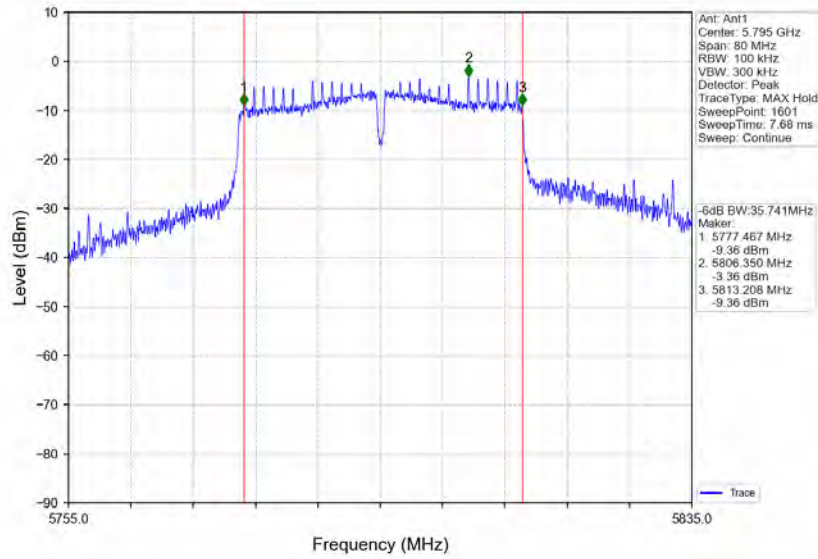
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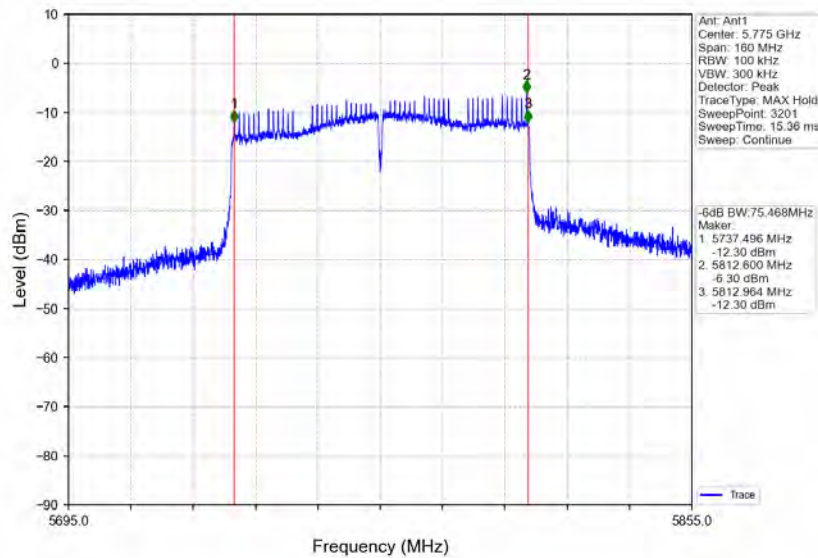
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

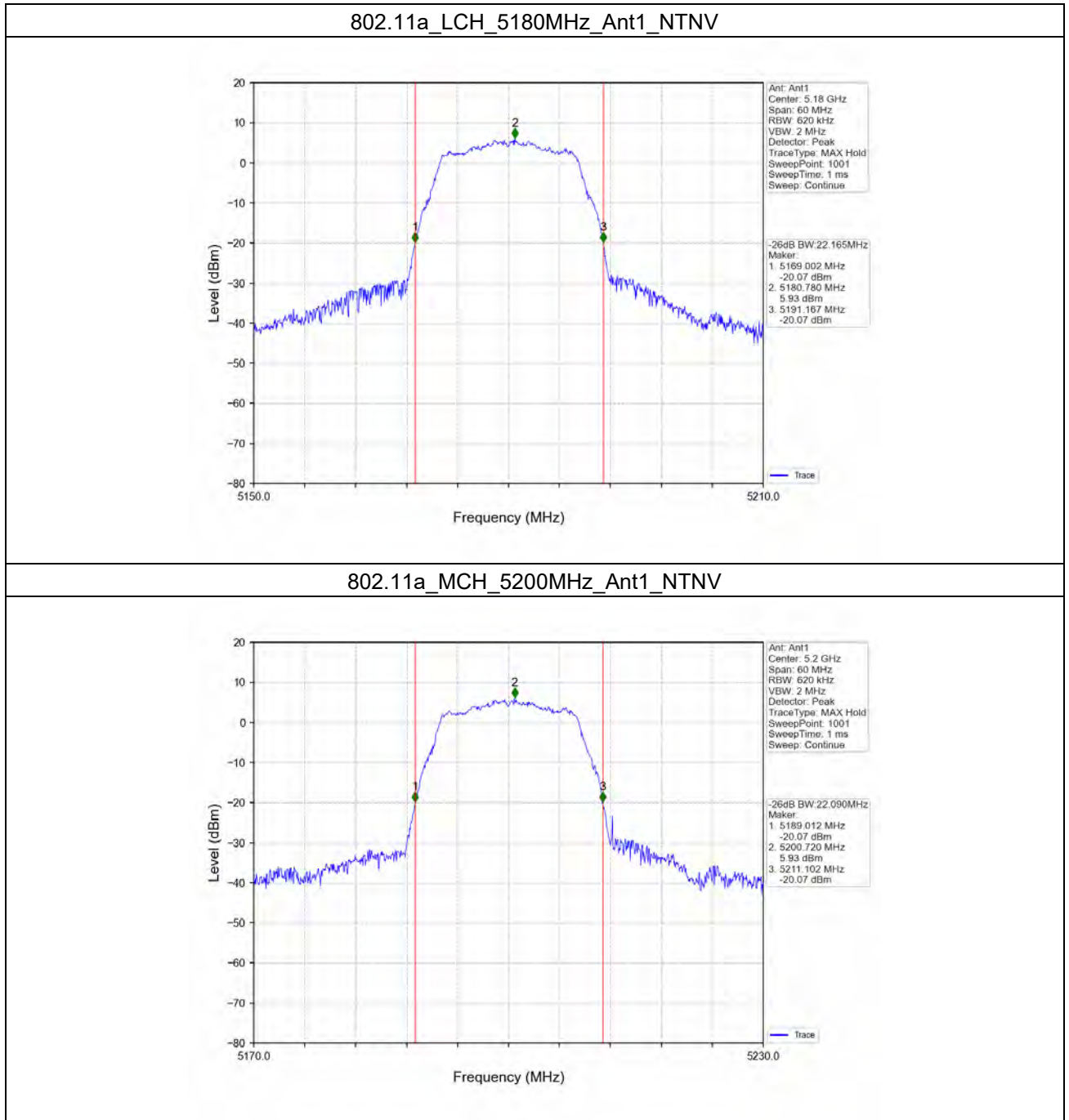
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	22.165	Pass
		5200	1	22.090	Pass
		5240	1	22.186	Pass
802.11n (HT20)	SISO	5180	1	22.440	Pass
		5200	1	22.286	Pass
		5240	1	22.293	Pass
802.11n (HT40)	SISO	5190	1	41.089	Pass
		5230	1	40.983	Pass
802.11ac (VHT20)	SISO	5180	1	22.422	Pass
		5200	1	22.227	Pass
		5240	1	22.480	Pass
802.11ac (VHT40)	SISO	5190	1	41.124	Pass
		5230	1	41.130	Pass
802.11ac (VHT80)	SISO	5210	1	83.582	Pass



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2.3.2 Test Graph



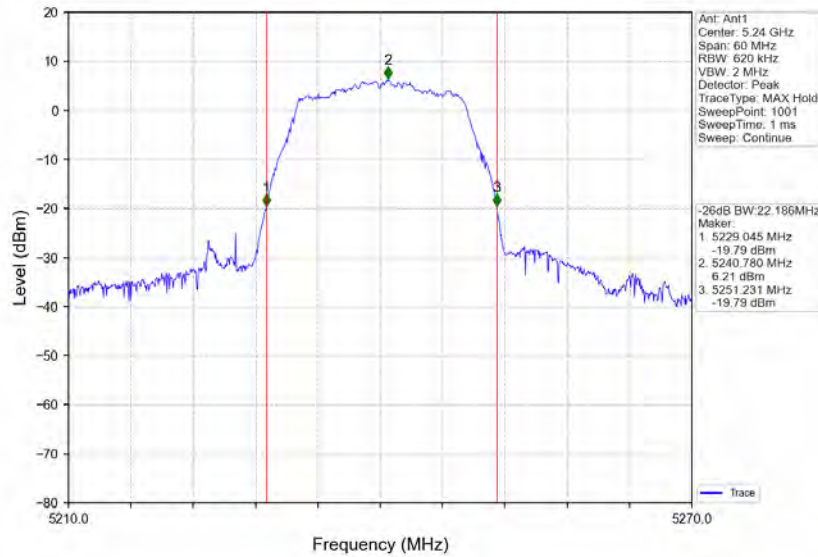
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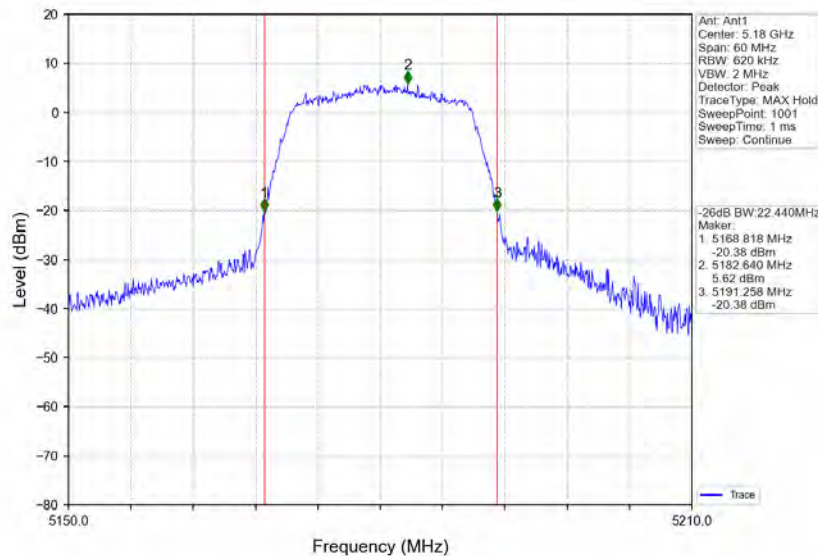
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



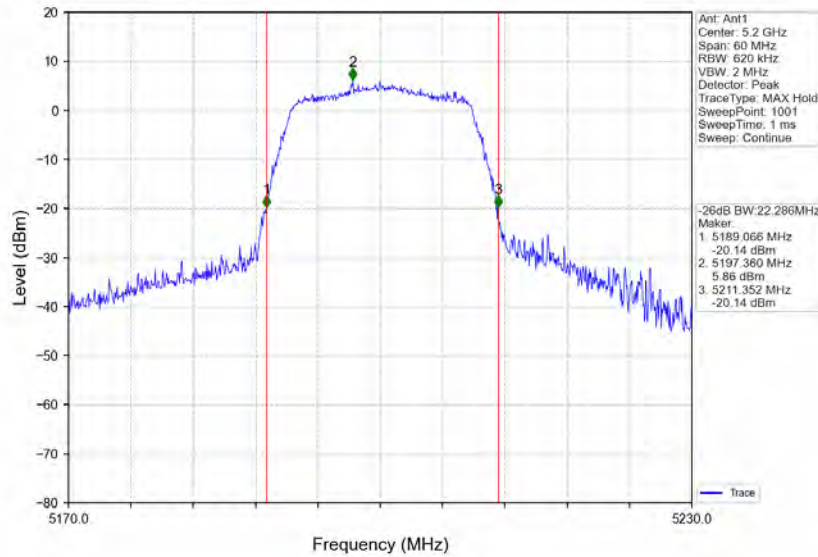
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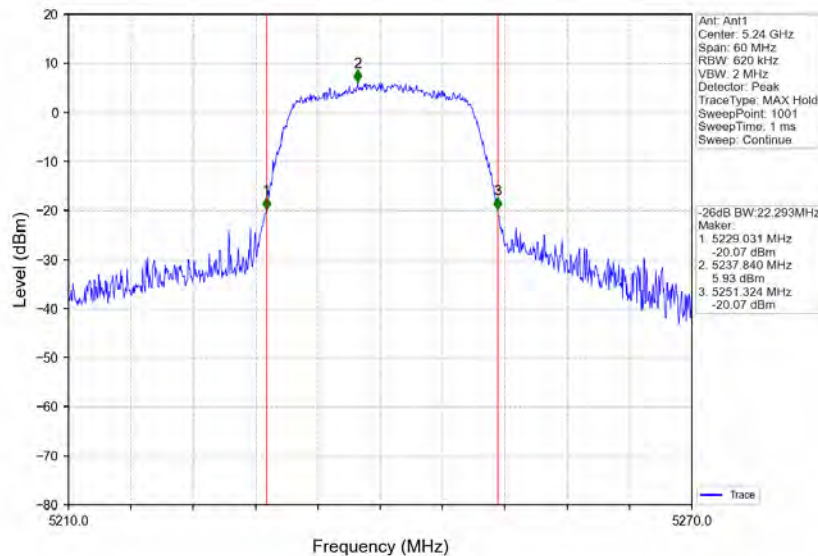
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



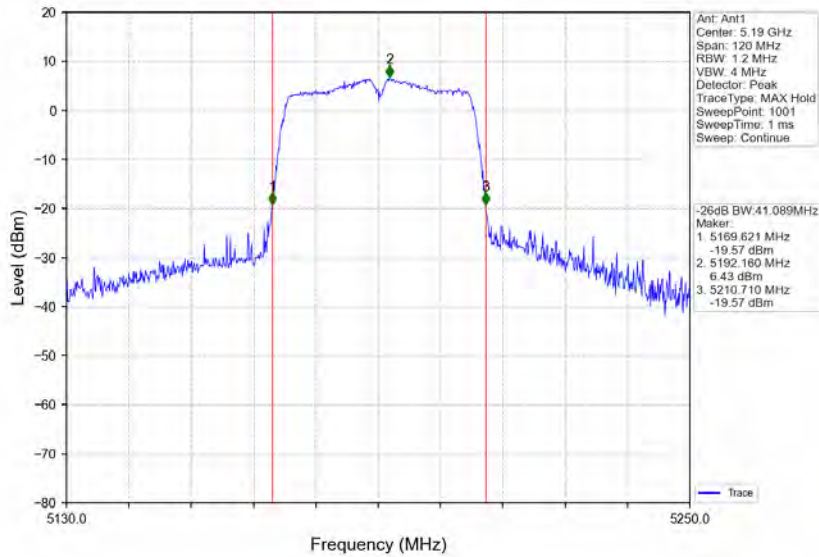
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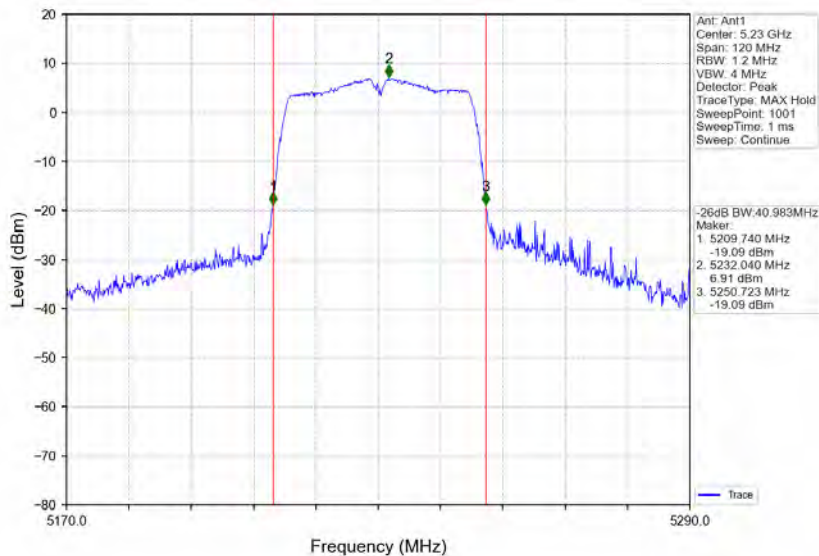
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



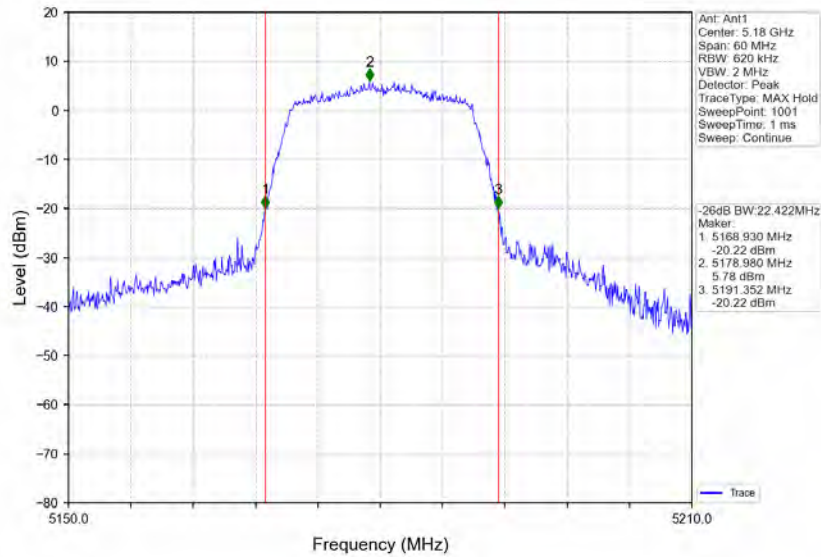
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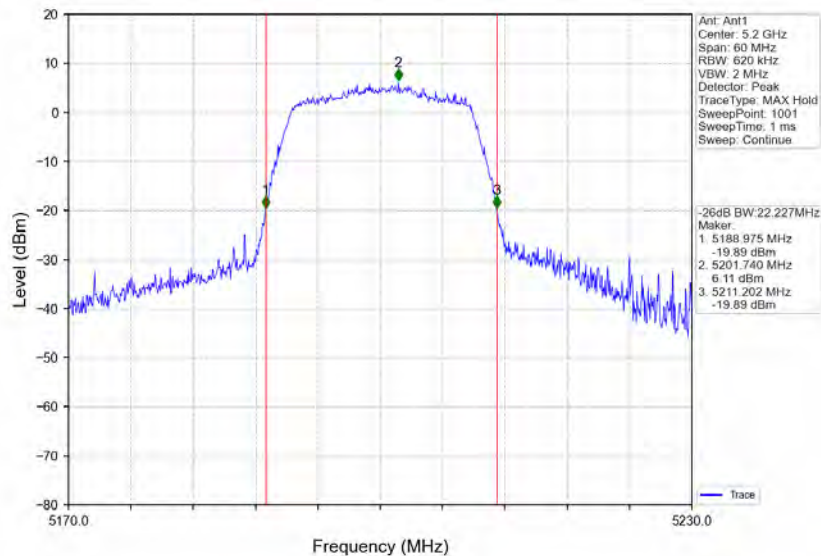
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



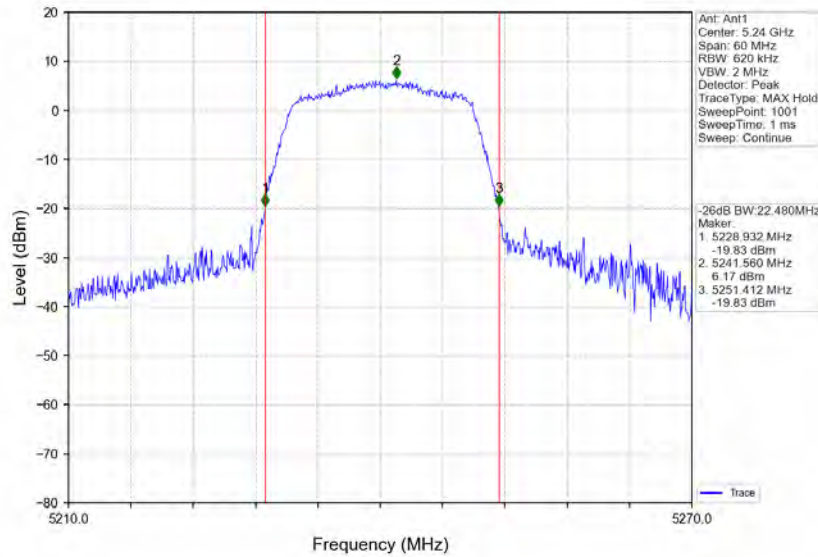
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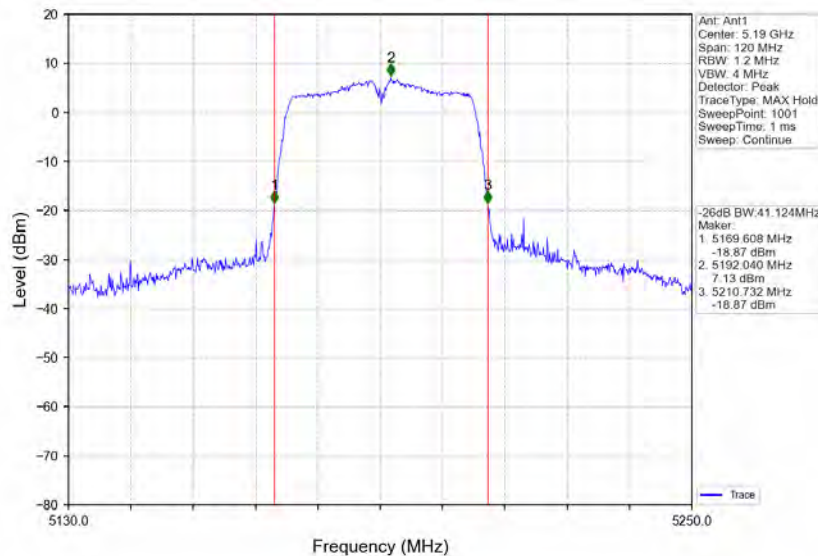
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



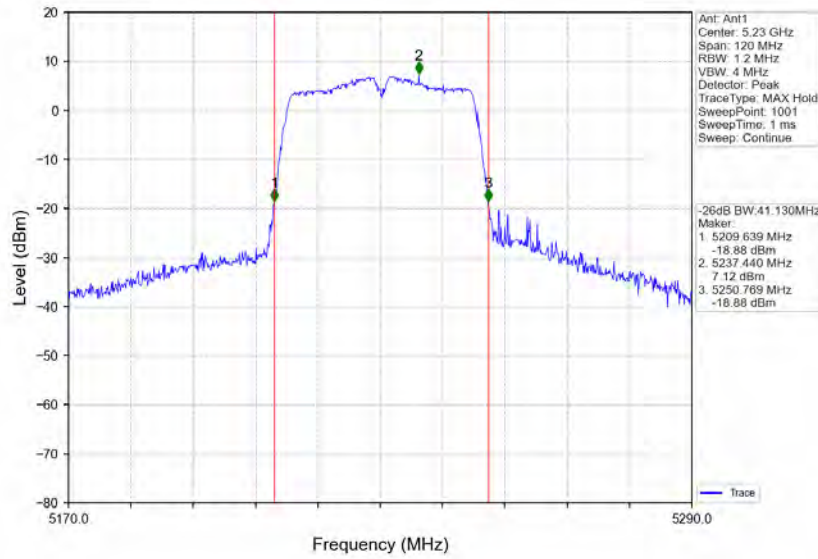
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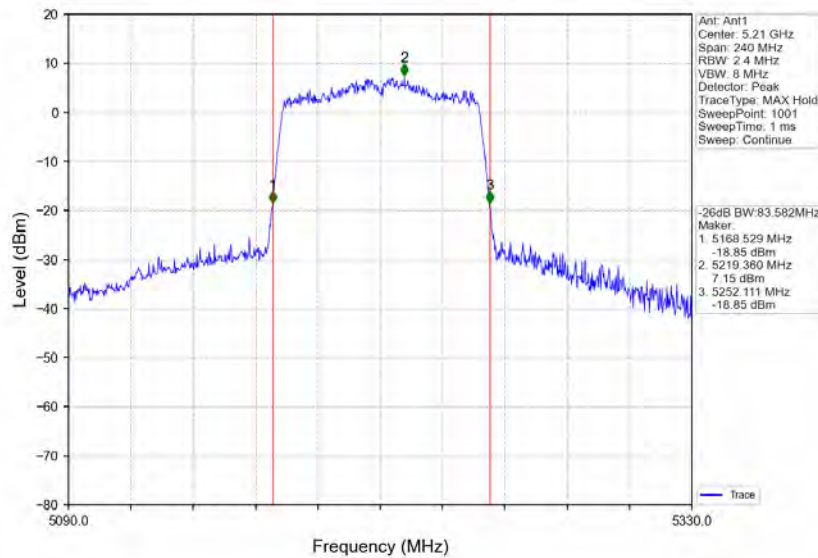
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_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	10.63	<=23.98	Pass
		5200	10.65	<=23.98	Pass
		5240	11.12	<=23.98	Pass
		5745	10.74	<=30	Pass
		5785	10.17	<=30	Pass
		5825	10.21	<=30	Pass
802.11n (HT20)	SISO	5180	10.18	<=23.98	Pass
		5200	10.51	<=23.98	Pass
		5240	10.75	<=23.98	Pass
		5745	10.23	<=30	Pass
		5785	9.64	<=30	Pass
		5825	9.60	<=30	Pass
802.11n (HT40)	SISO	5190	10.57	<=23.98	Pass
		5230	10.87	<=23.98	Pass
		5755	10.39	<=30	Pass
		5795	10.07	<=30	Pass
802.11ac (VHT20)	SISO	5180	10.17	<=23.98	Pass
		5200	10.49	<=23.98	Pass
		5240	10.80	<=23.98	Pass
		5745	10.24	<=30	Pass
		5785	9.75	<=30	Pass
		5825	9.73	<=30	Pass
802.11ac (VHT40)	SISO	5190	10.56	<=23.98	Pass
		5230	10.87	<=23.98	Pass
		5755	10.30	<=30	Pass
		5795	10.02	<=30	Pass
802.11ac (VHT80)	SISO	5210	8.88	<=23.98	Pass
		5775	9.18	<=30	Pass

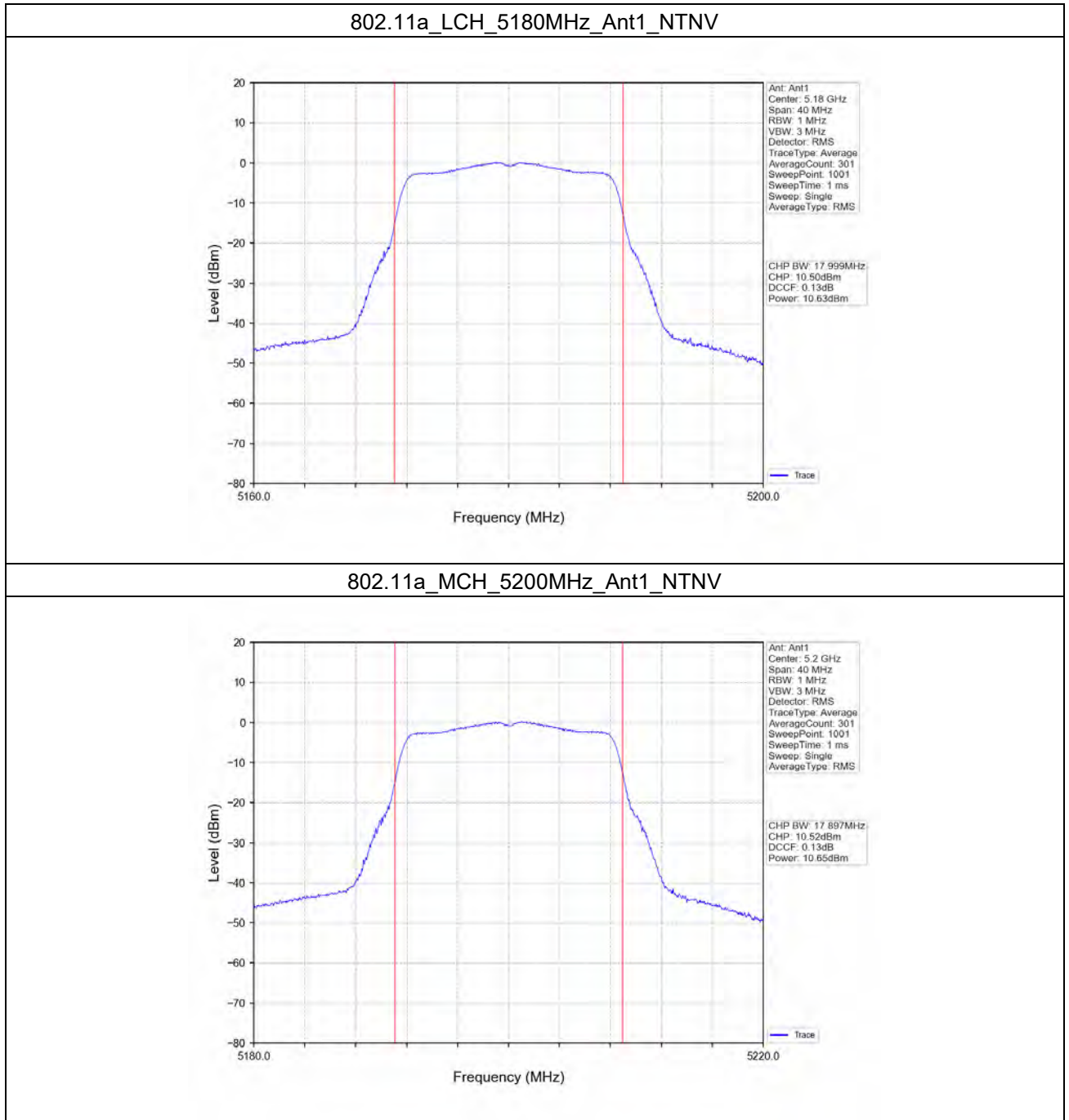
Note1: Antenna Gain: Ant1: 4.30dBi; Ant2: 3dBi;



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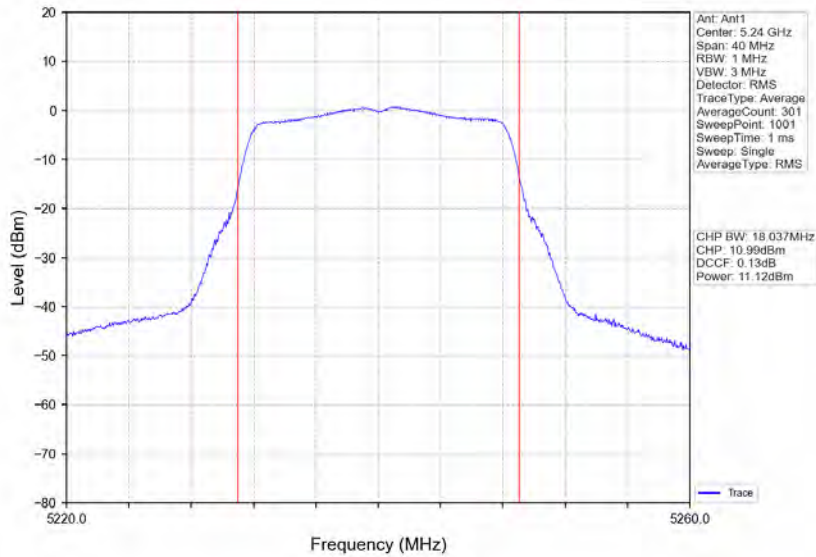
3.1.2 Test Graph



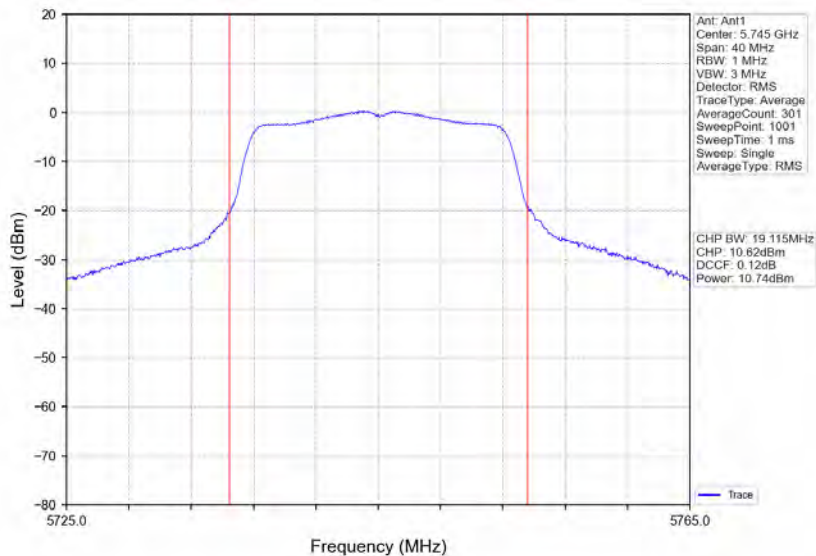
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



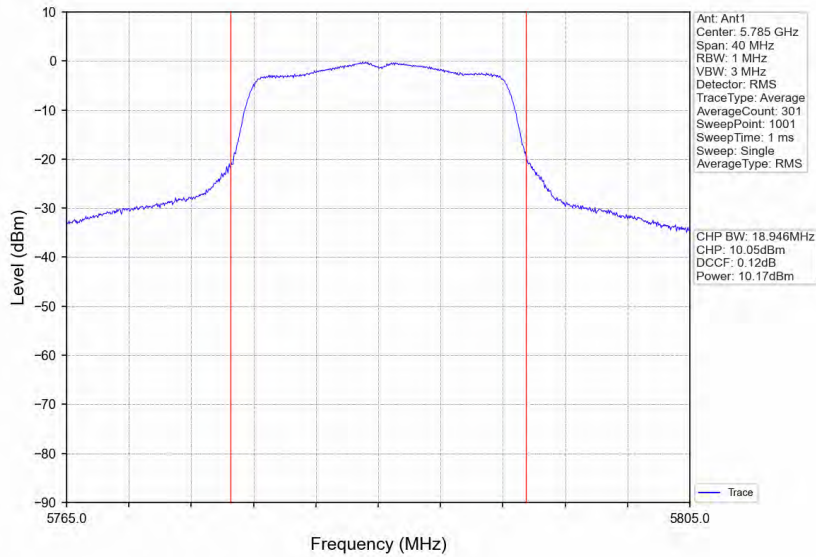
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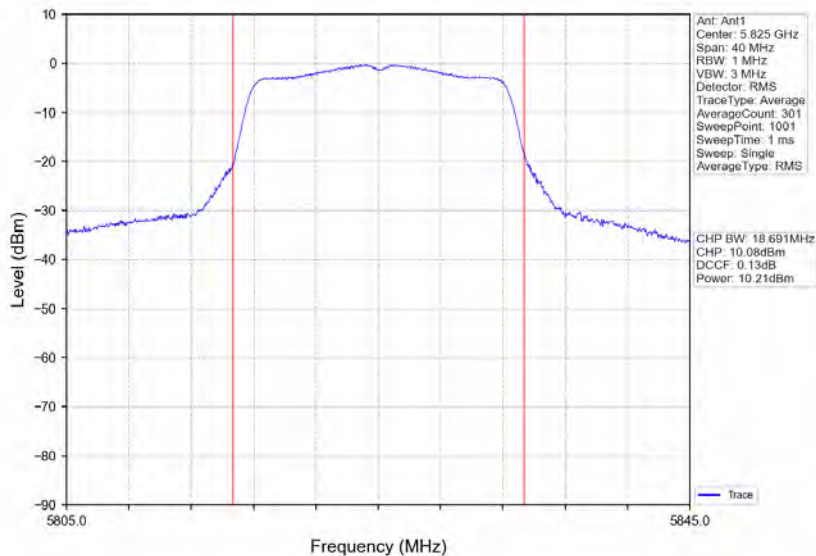
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802.11a_HCH_5825MHz_Ant1_NTNV



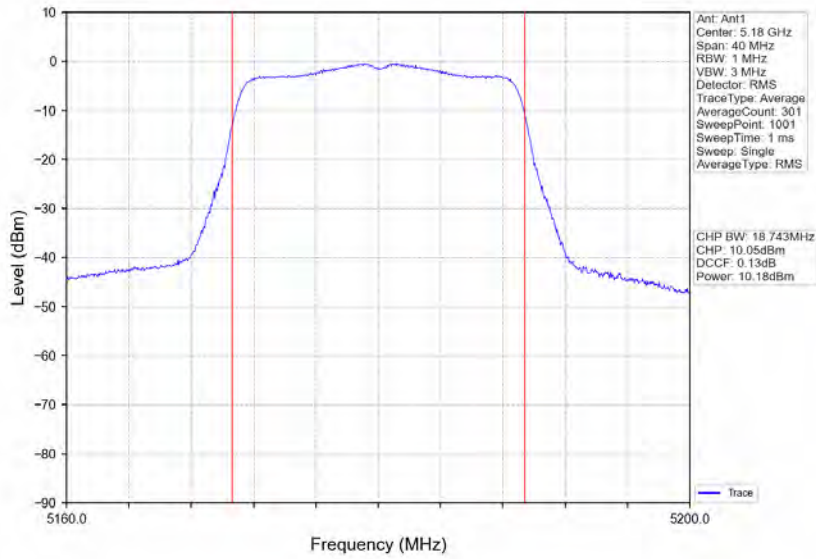
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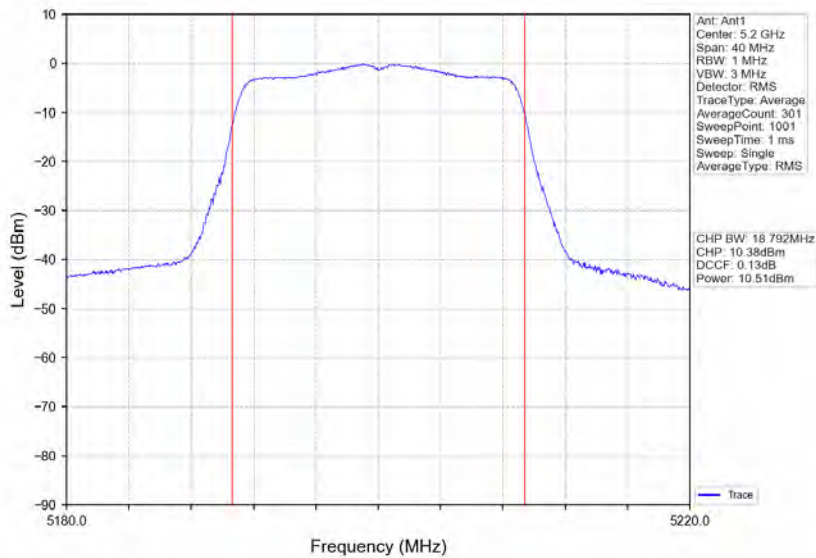
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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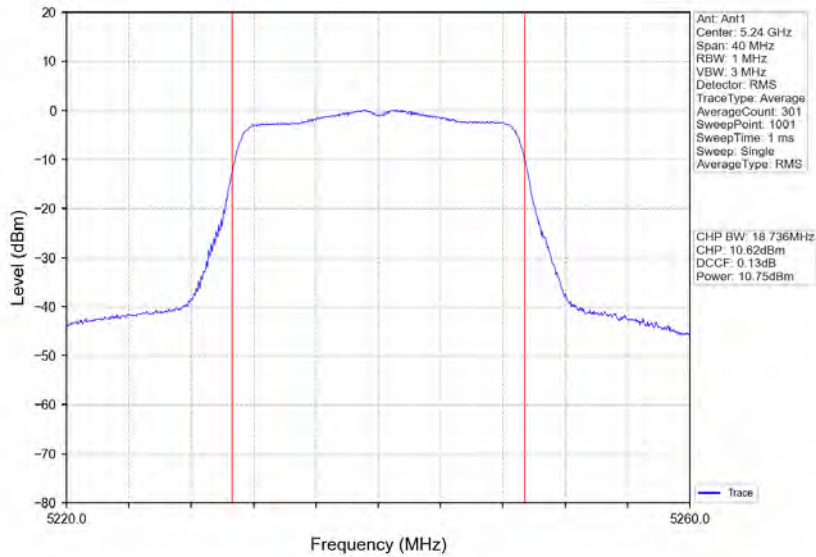
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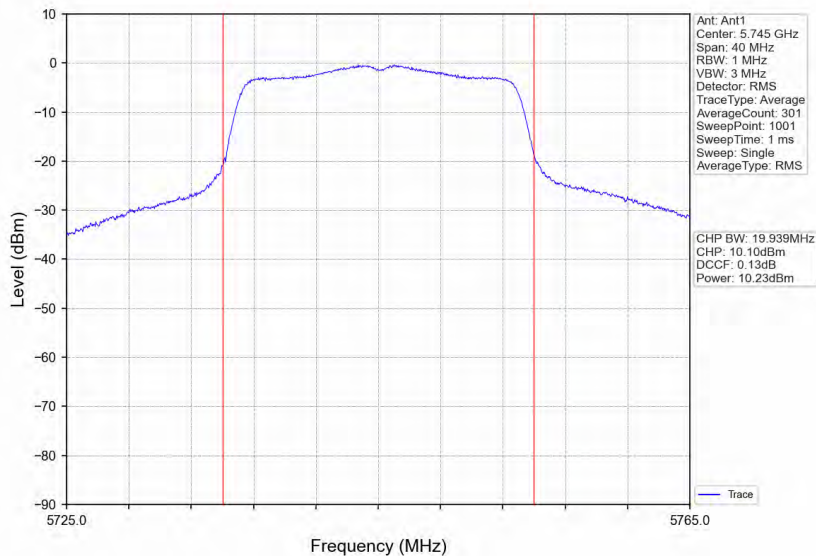
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



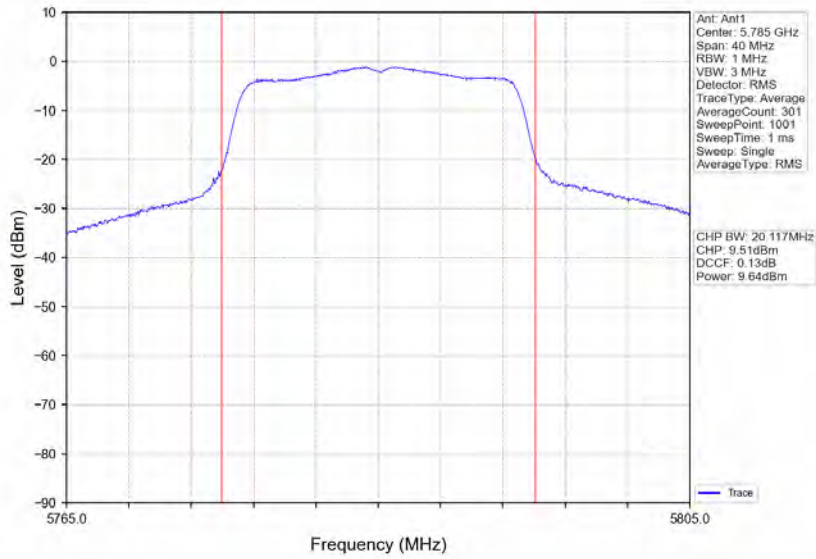
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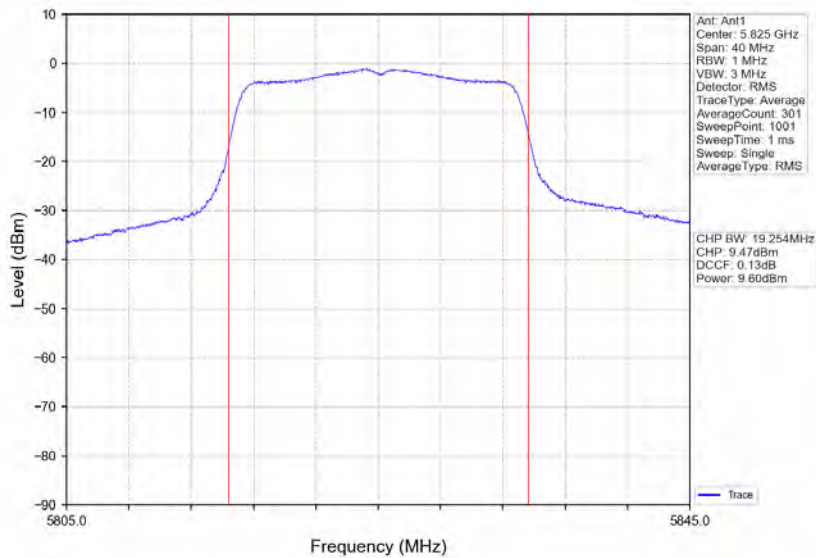
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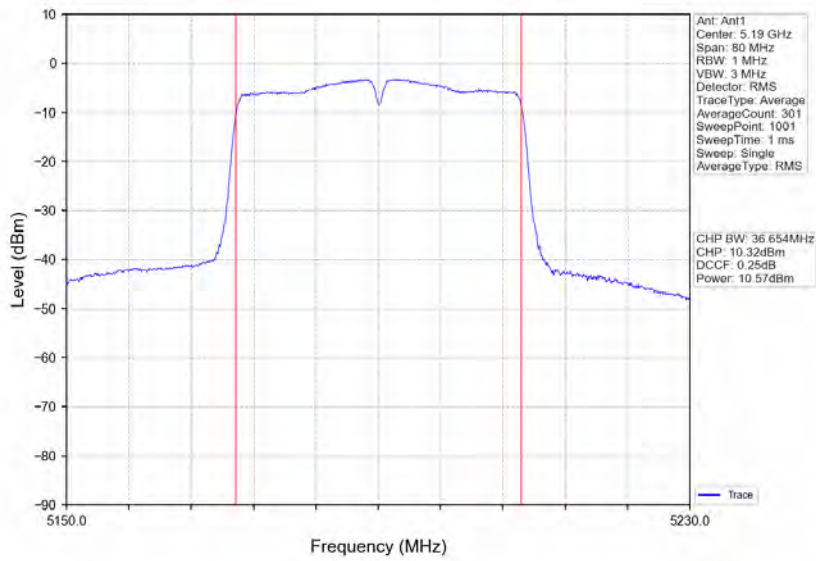
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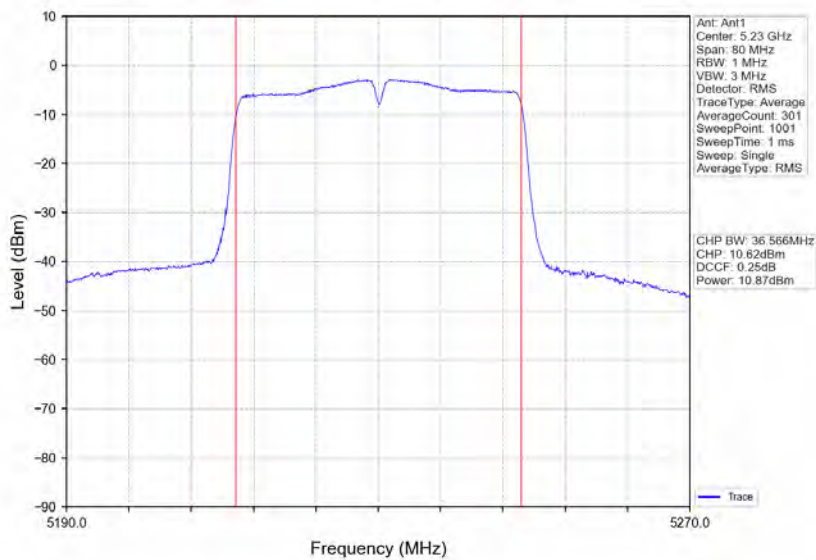
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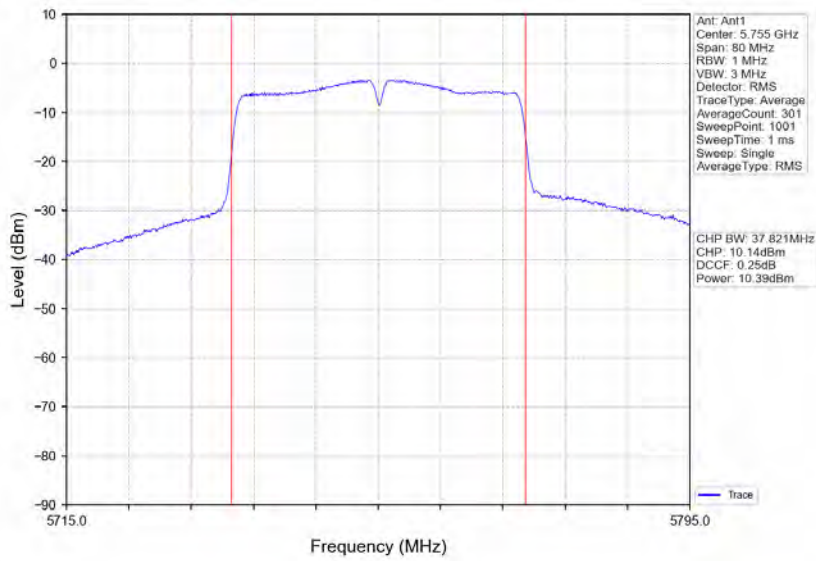
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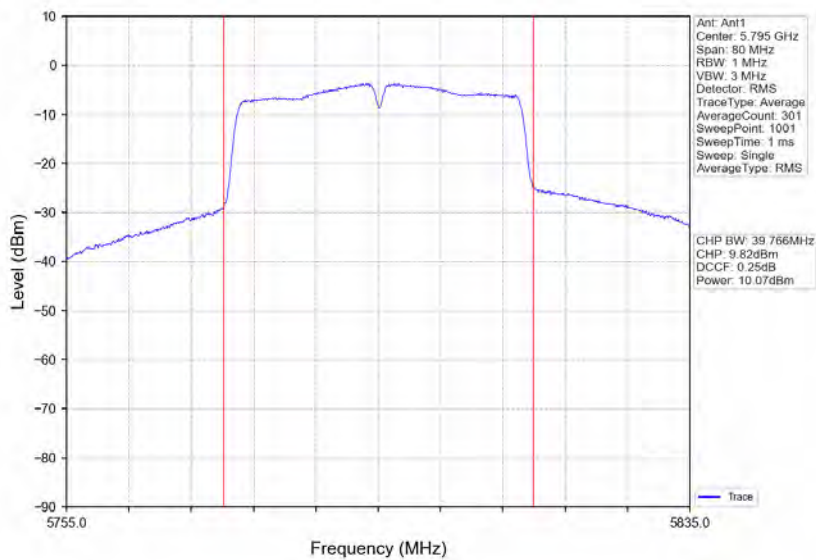
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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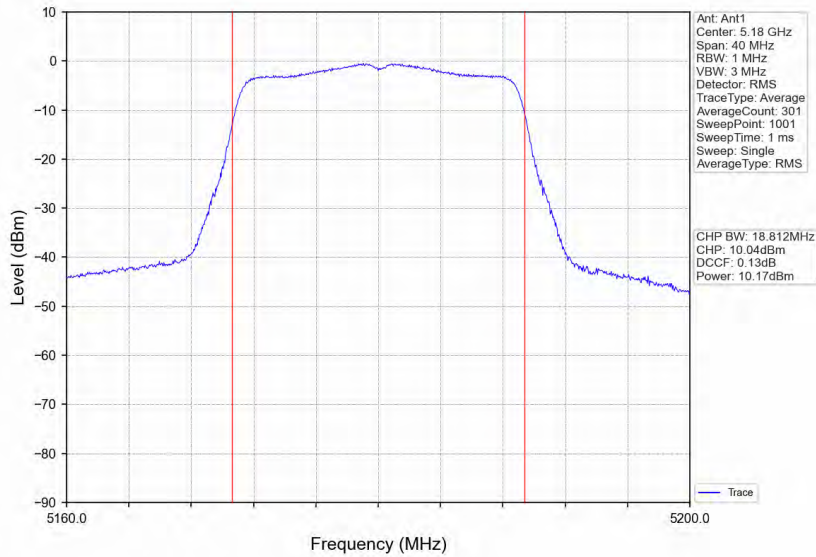
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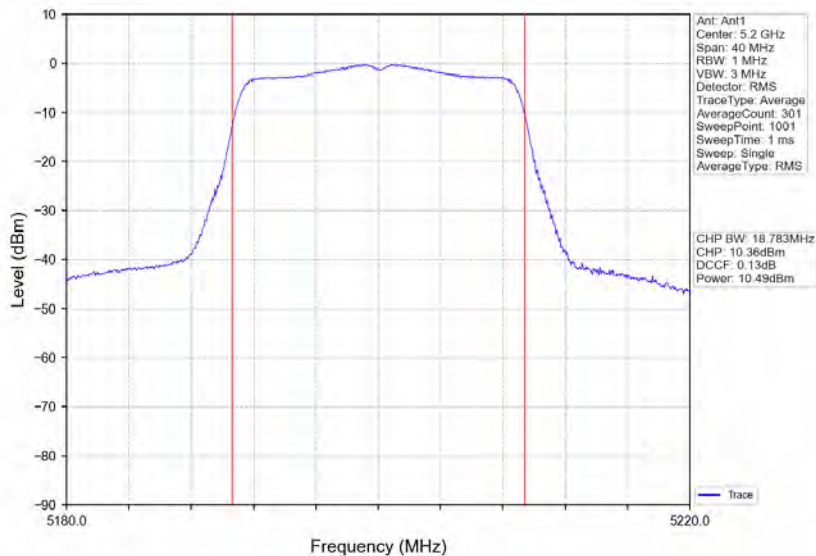
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



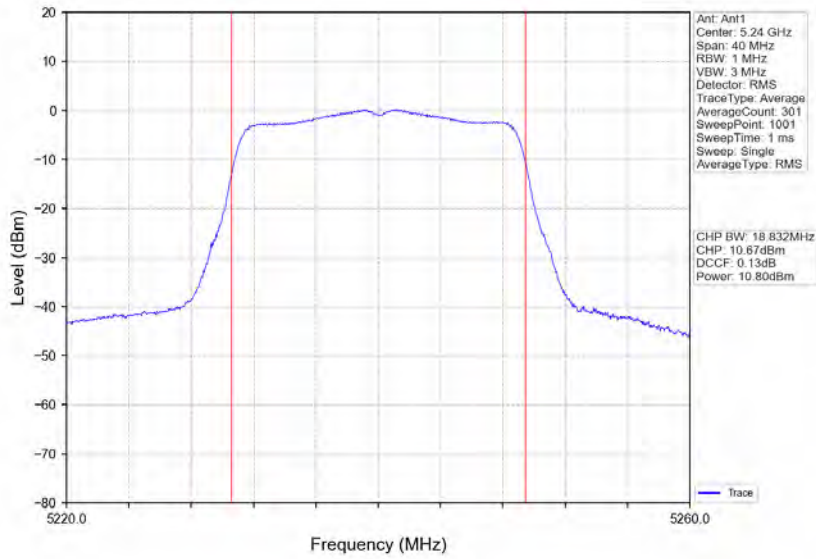
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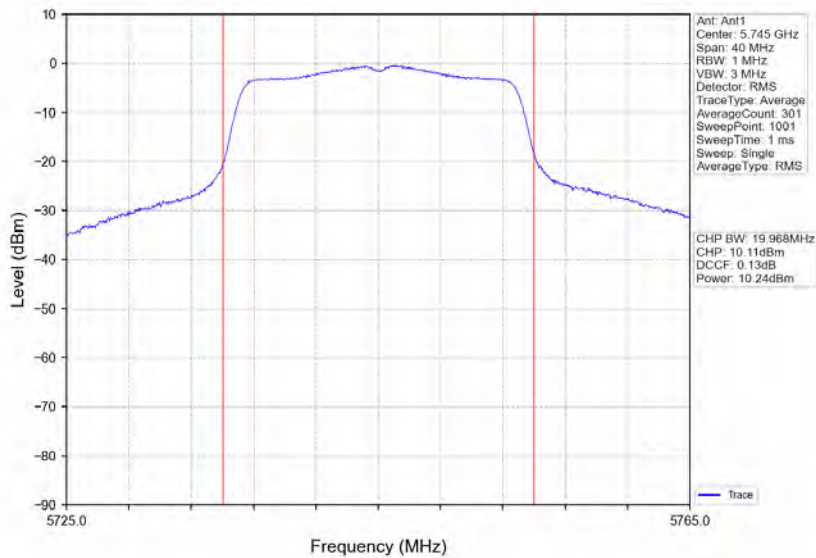
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



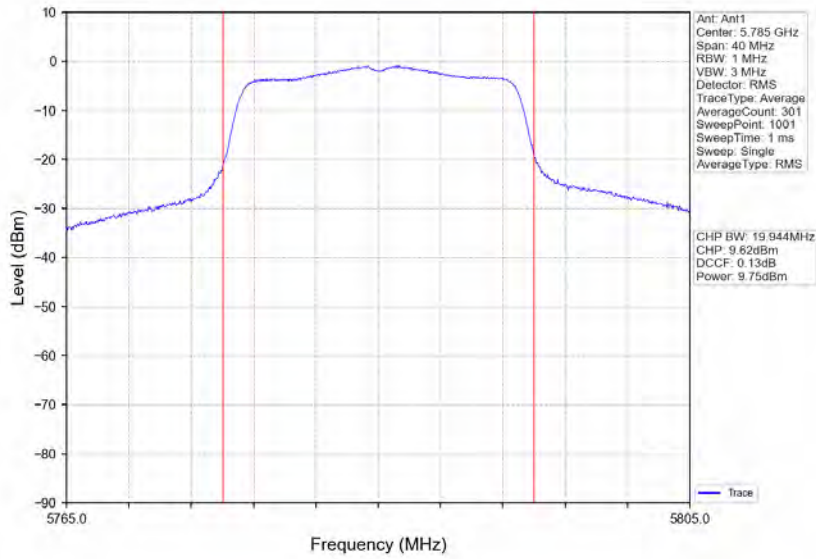
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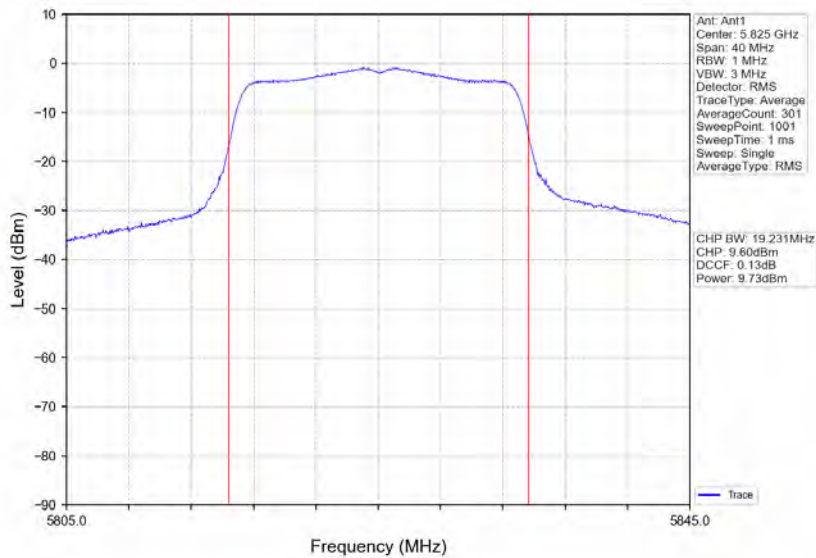
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



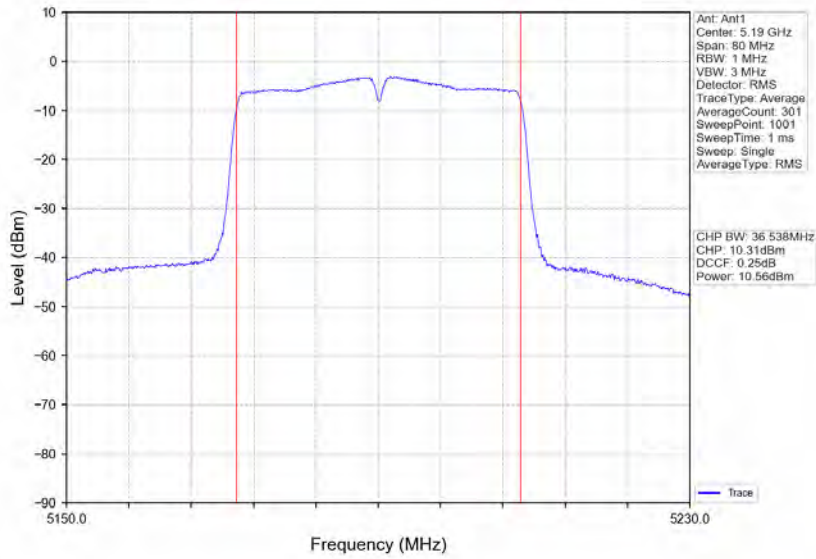
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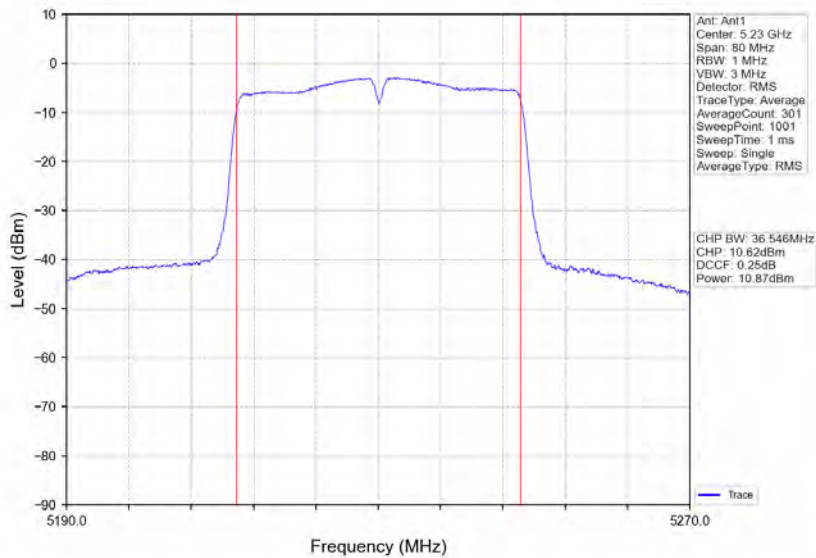
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



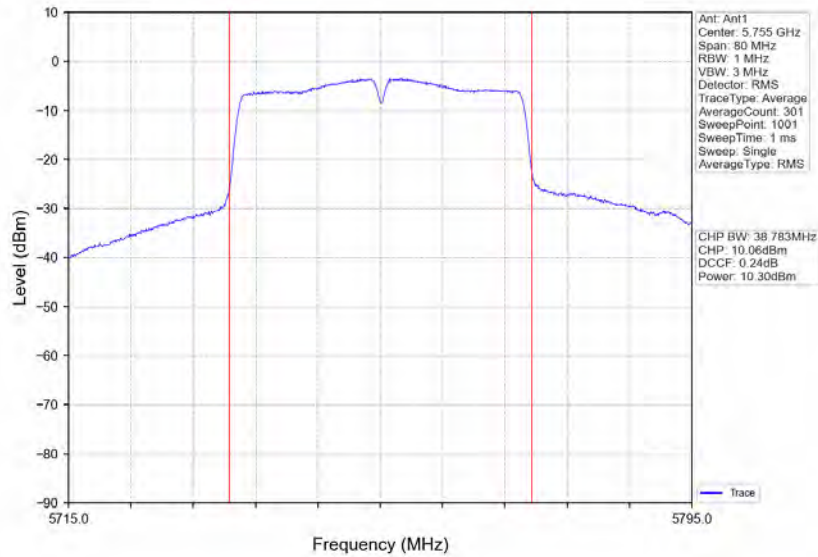
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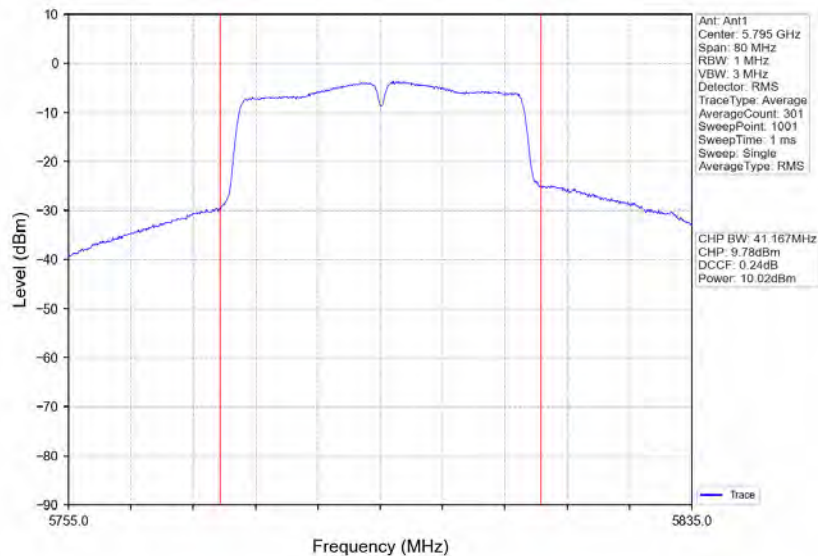
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



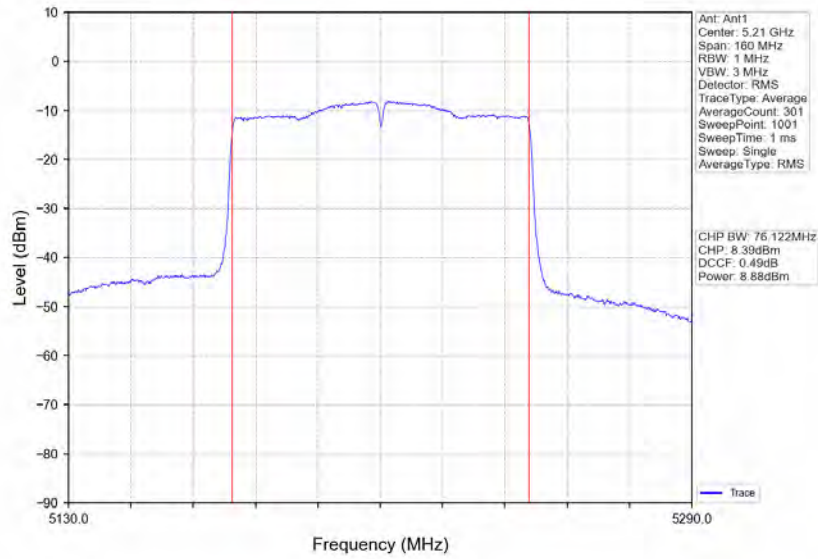
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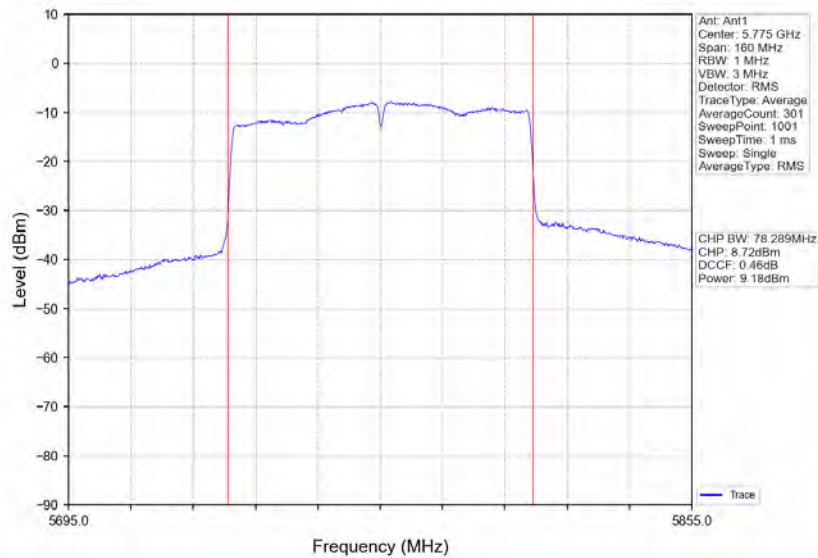
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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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	0.43	<=11	Pass
		5200	0.63	<=11	Pass
		5240	0.98	<=11	Pass
802.11n (HT20)	SISO	5180	-0.36	<=11	Pass
		5200	0.15	<=11	Pass
		5240	0.27	<=11	Pass
802.11n (HT40)	SISO	5190	-2.91	<=11	Pass
		5230	-2.34	<=11	Pass
802.11ac (VHT20)	SISO	5180	-0.29	<=11	Pass
		5200	0.09	<=11	Pass
		5240	0.33	<=11	Pass
802.11ac (VHT40)	SISO	5190	-2.84	<=11	Pass
		5230	-2.44	<=11	Pass
802.11ac (VHT80)	SISO	5210	-7.57	<=11	Pass

Note1: Antenna Gain: Ant1: 4.30dBi; Ant2: 3dBi;



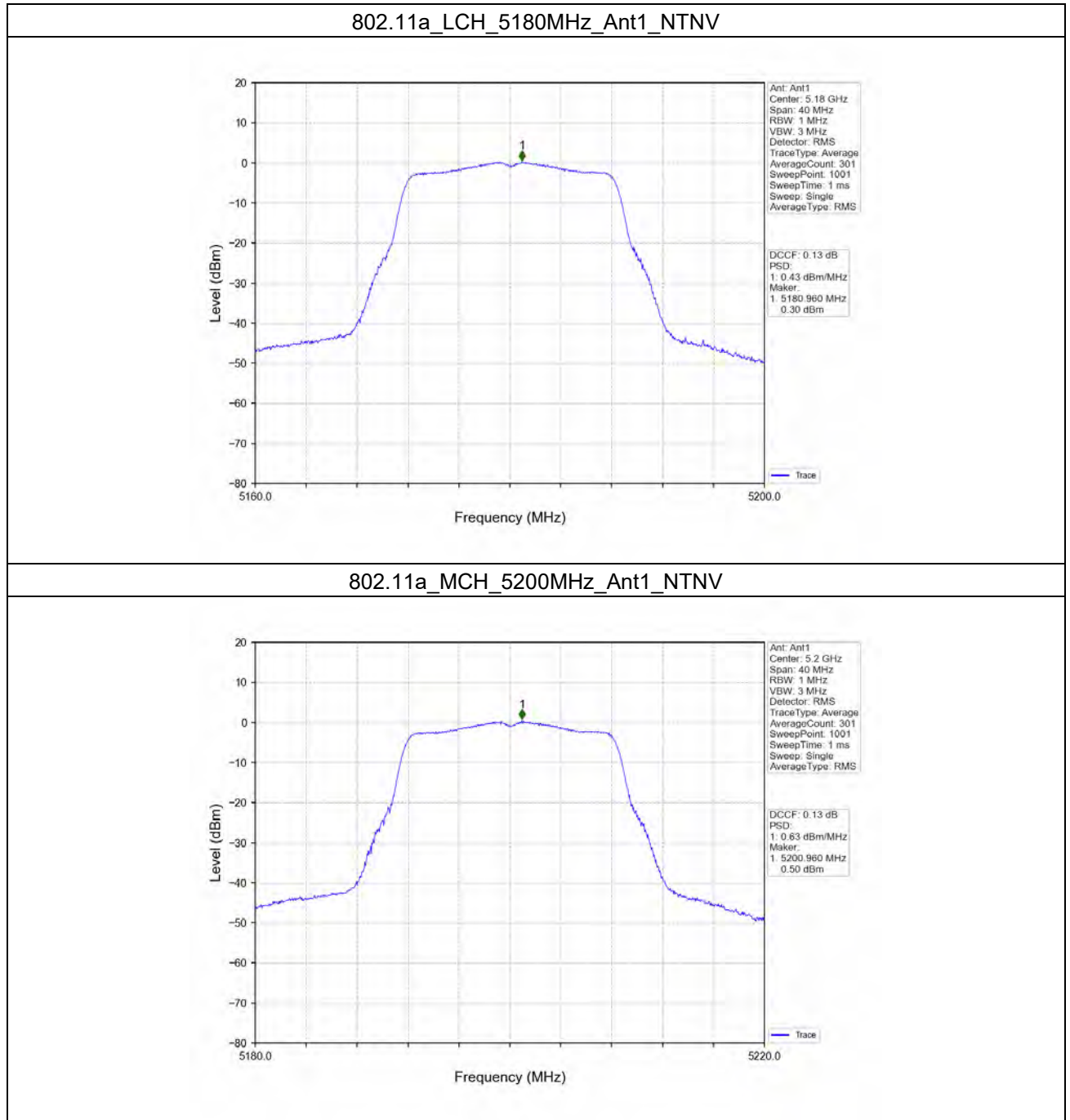
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4.1.2 Test Graph



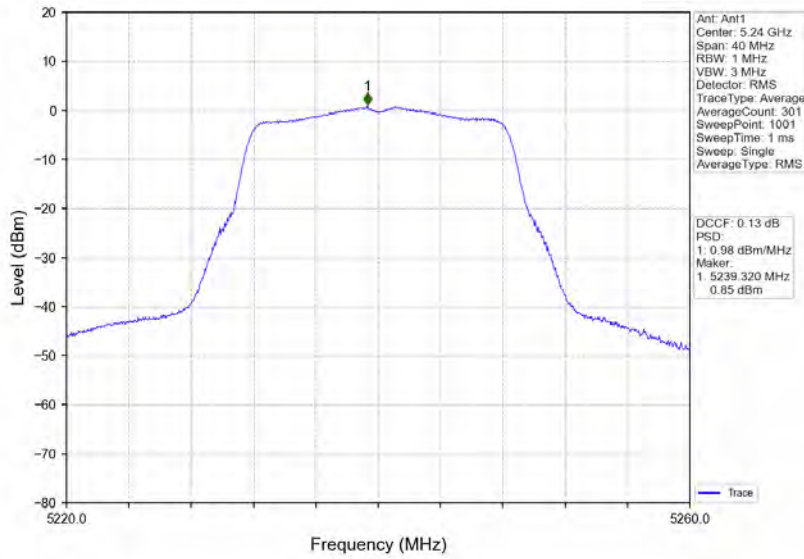
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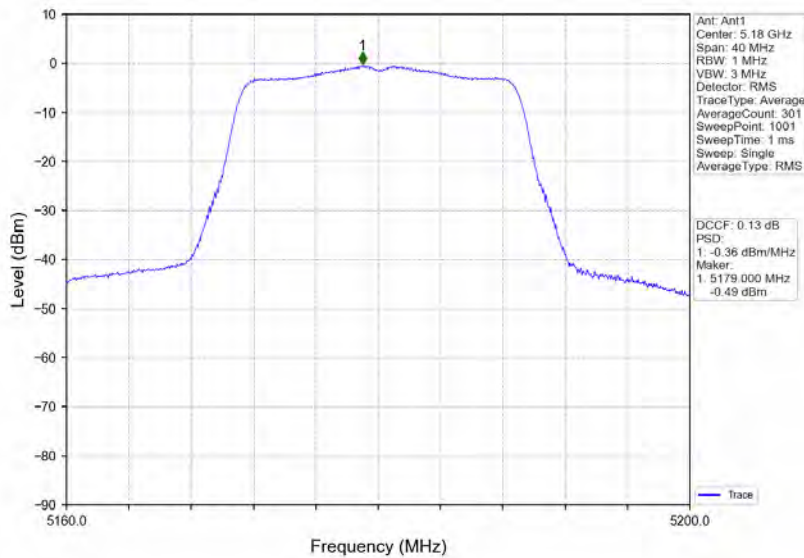
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



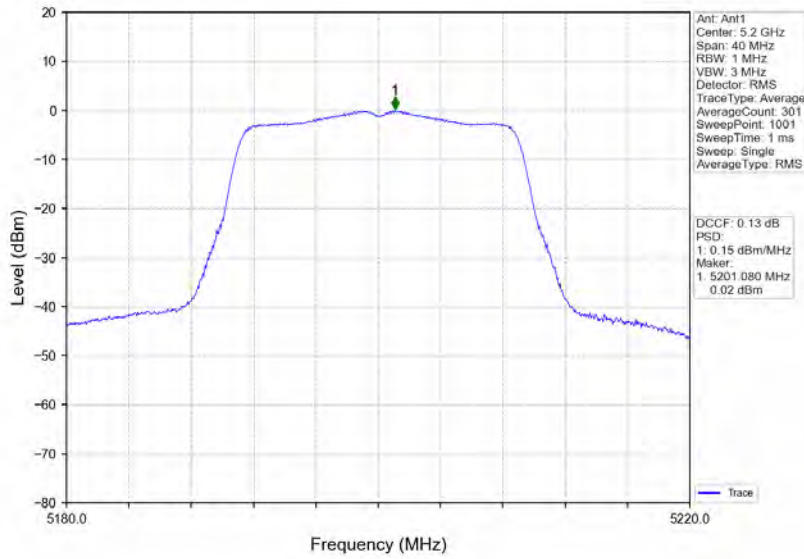
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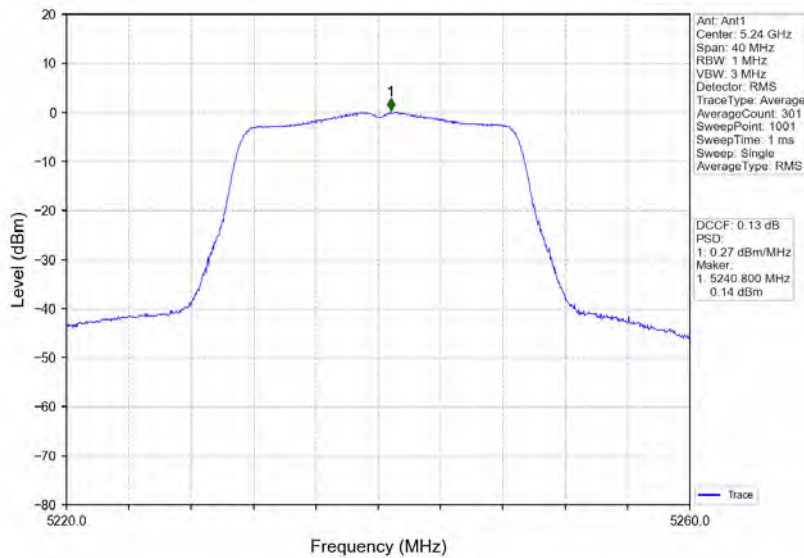
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



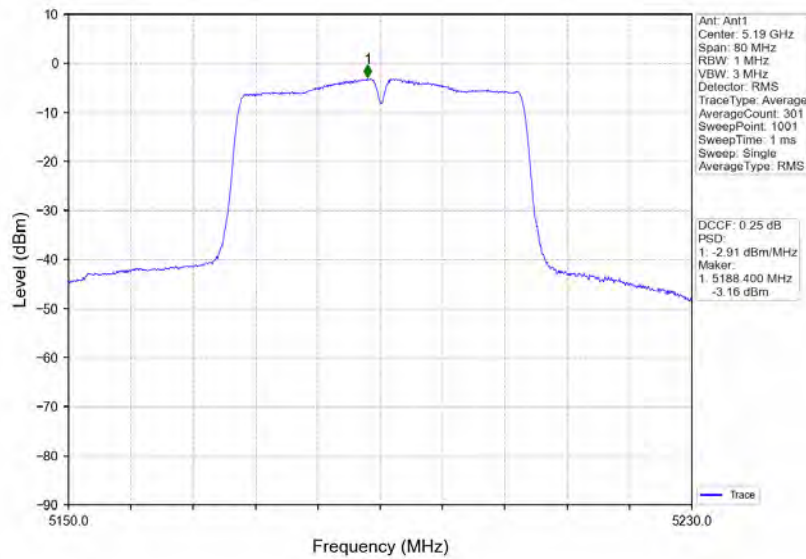
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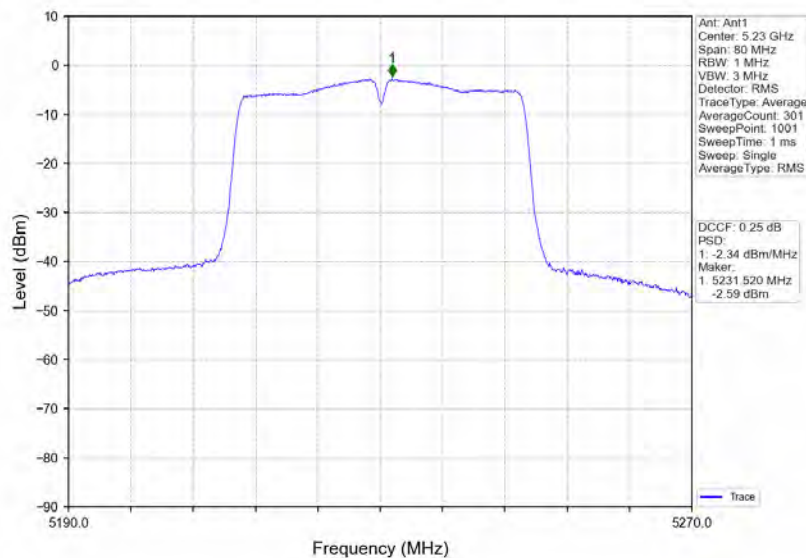
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



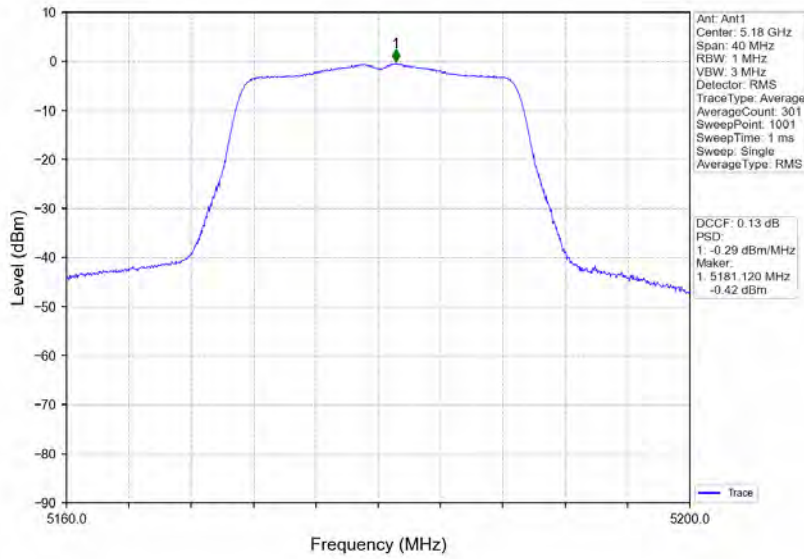
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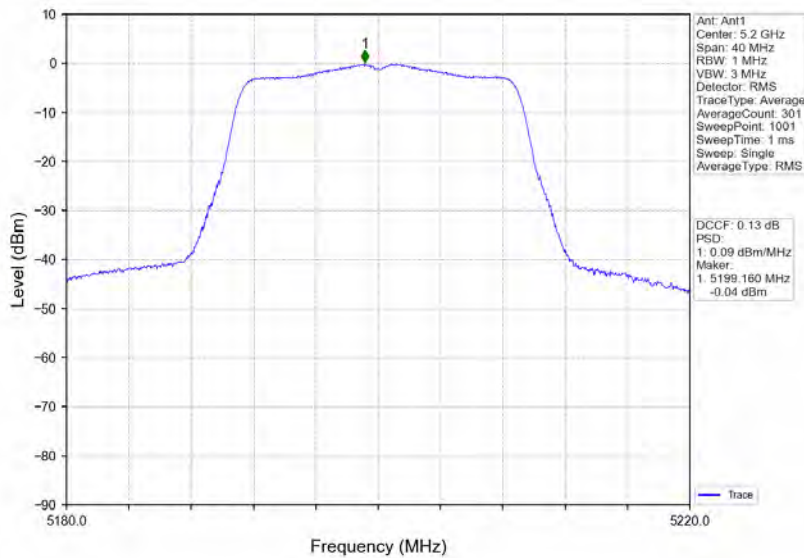
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



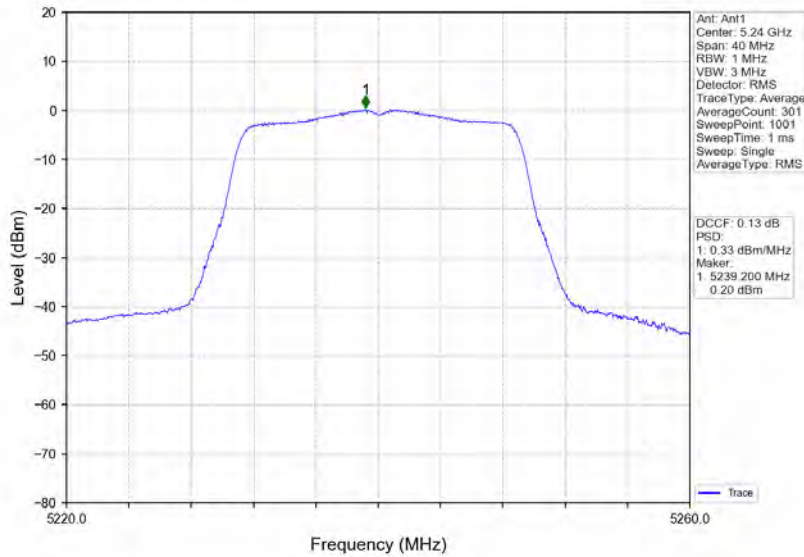
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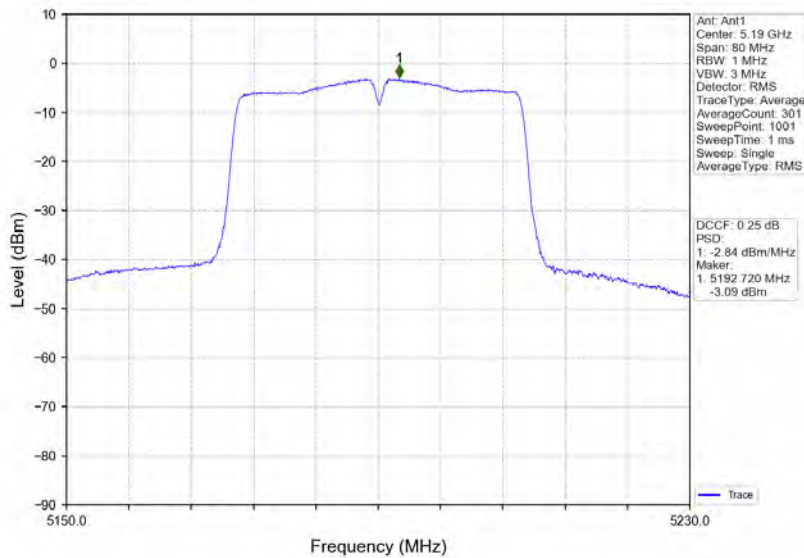
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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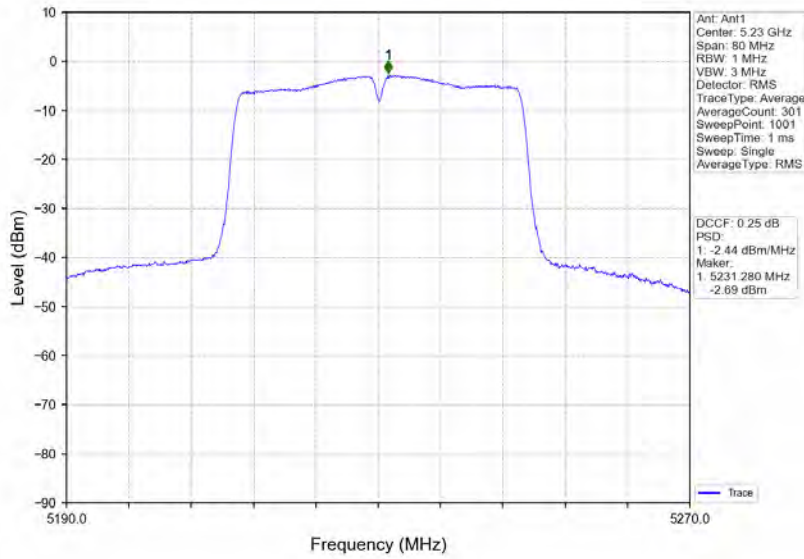
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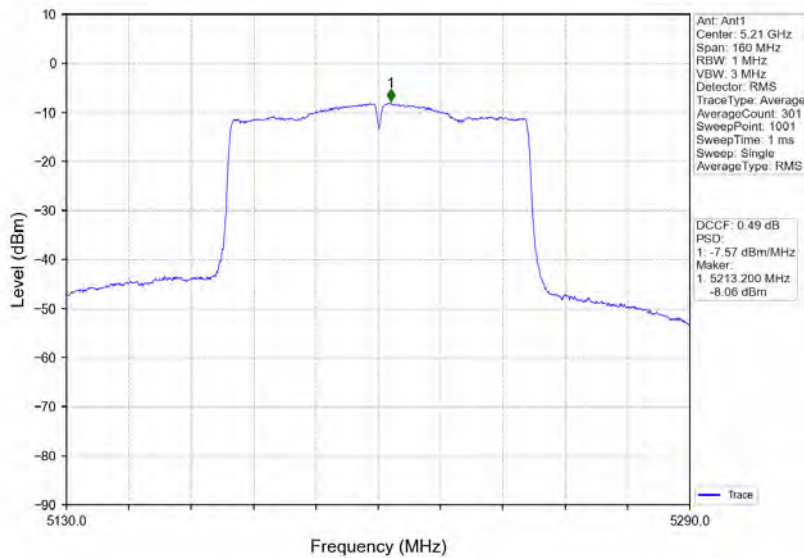
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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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	-2.26	<=30	Pass
		5785	-2.98	<=30	Pass
		5825	-2.68	<=30	Pass
802.11n (HT20)	SISO	5745	-3.27	<=30	Pass
		5785	-3.63	<=30	Pass
		5825	-3.59	<=30	Pass
802.11n (HT40)	SISO	5755	-5.97	<=30	Pass
		5795	-6.37	<=30	Pass
802.11ac (VHT20)	SISO	5745	-3.20	<=30	Pass
		5785	-3.69	<=30	Pass
		5825	-3.68	<=30	Pass
802.11ac (VHT40)	SISO	5755	-6.12	<=30	Pass
		5795	-6.36	<=30	Pass
802.11ac (VHT80)	SISO	5775	-9.98	<=30	Pass

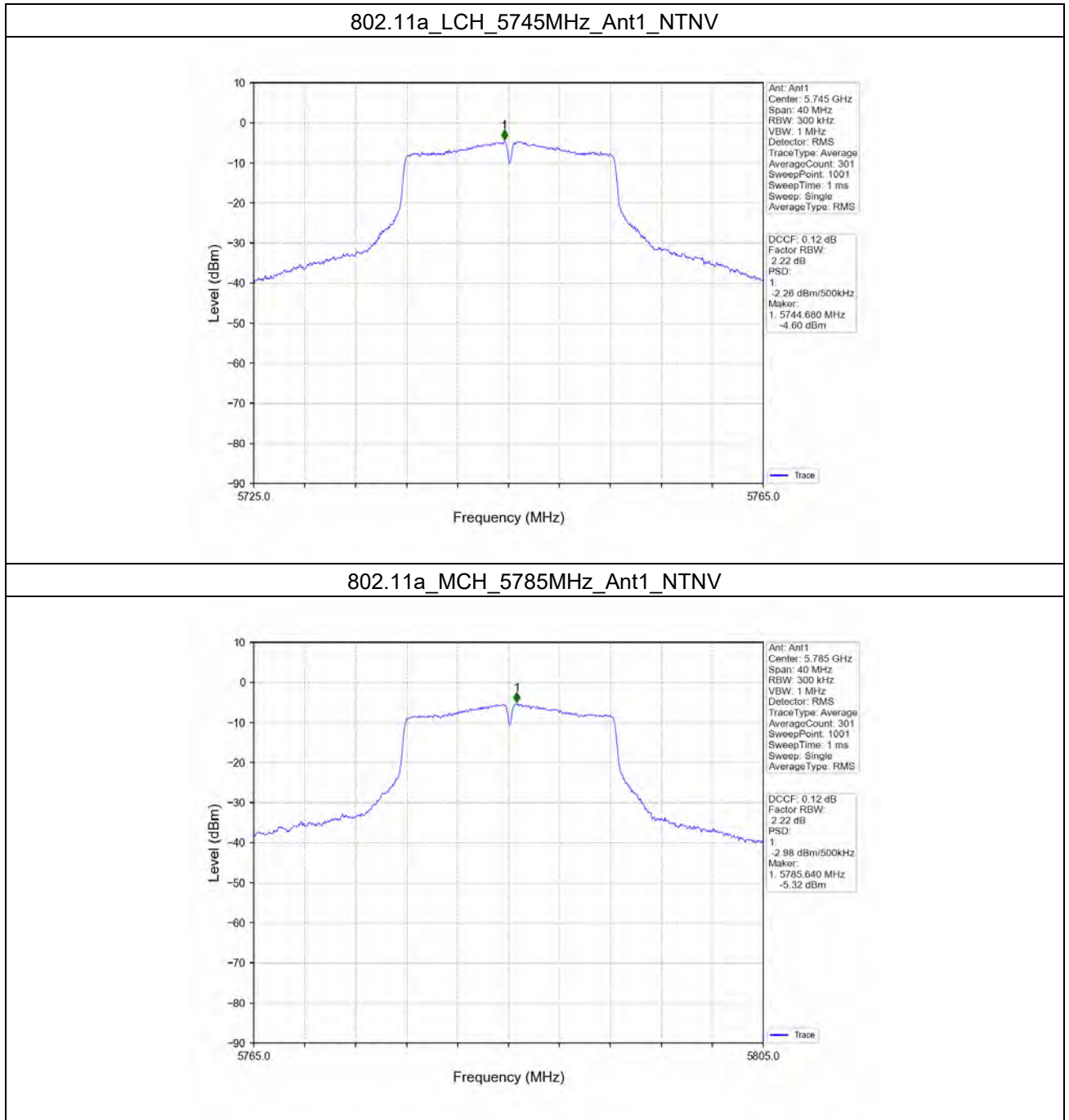
Note1: Antenna Gain: Ant1: 4.30dBi; Ant2: 3dBi;



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4.2.2 Test Graph



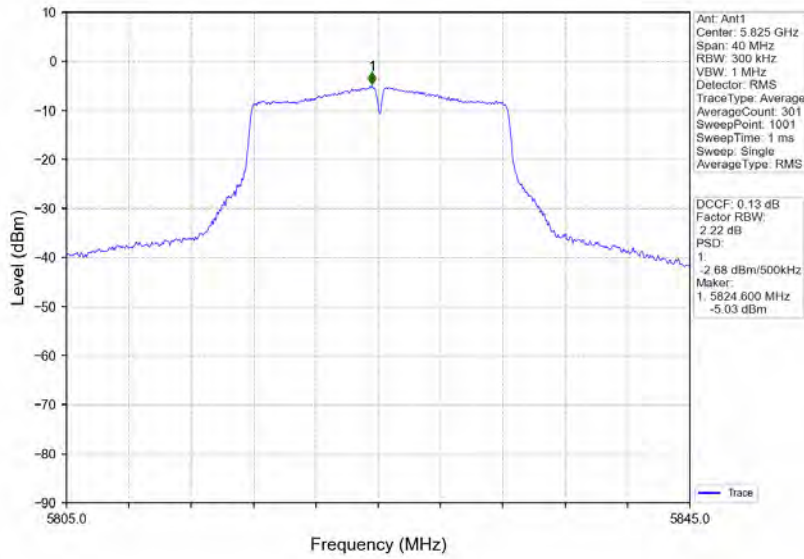
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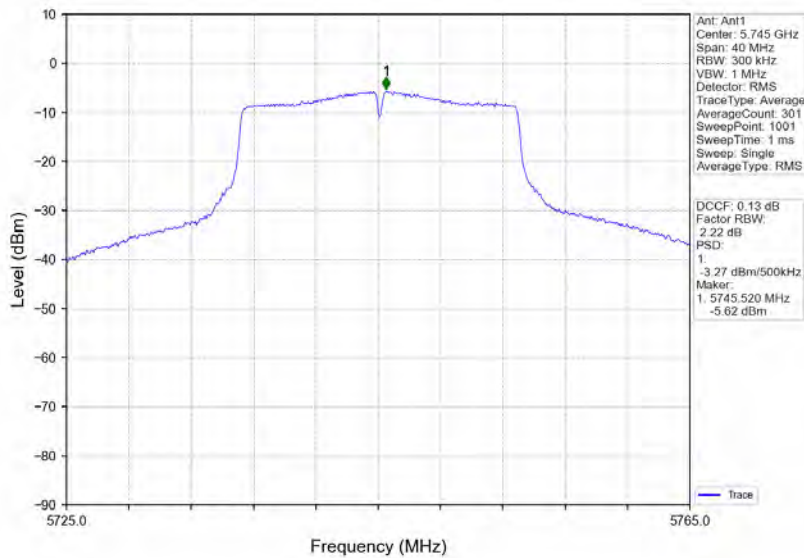
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



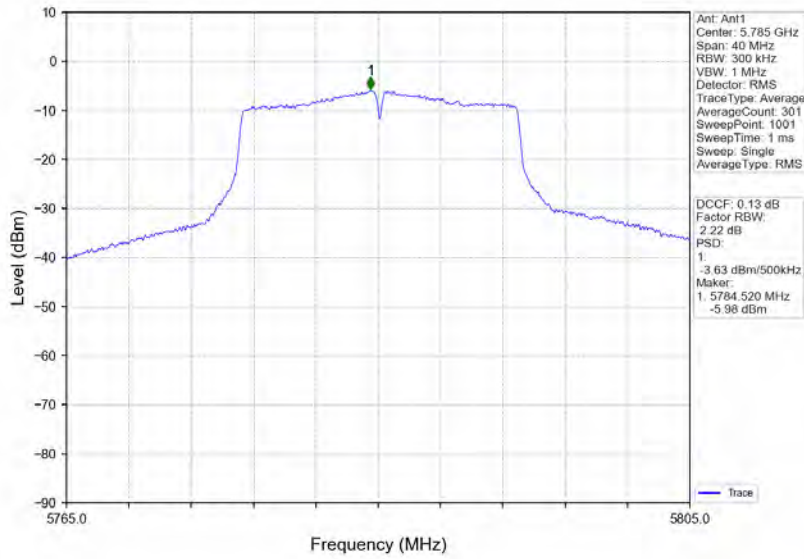
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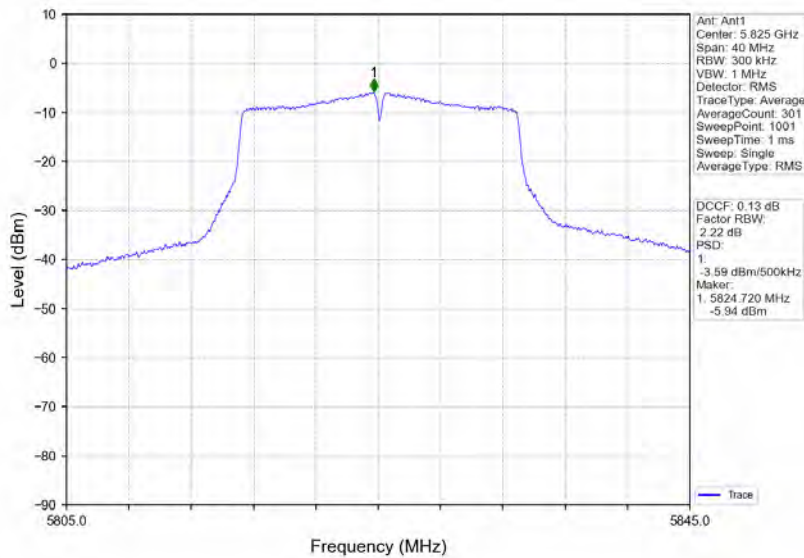
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



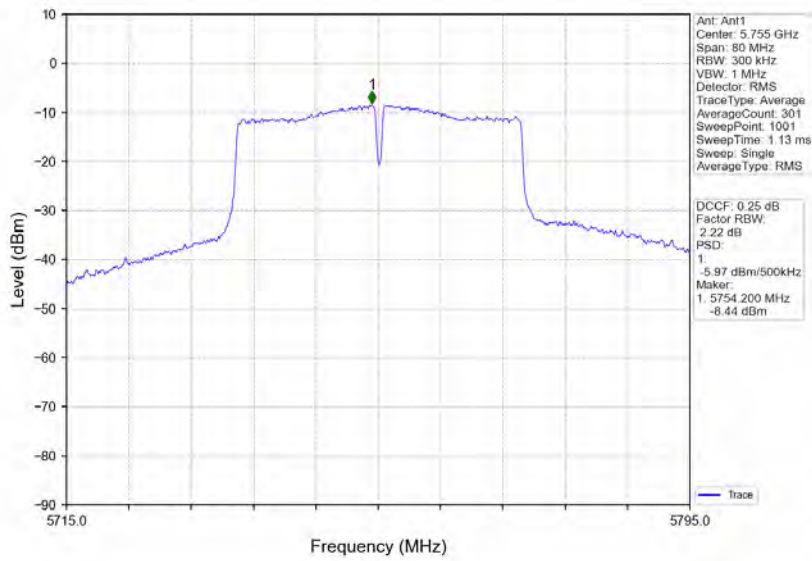
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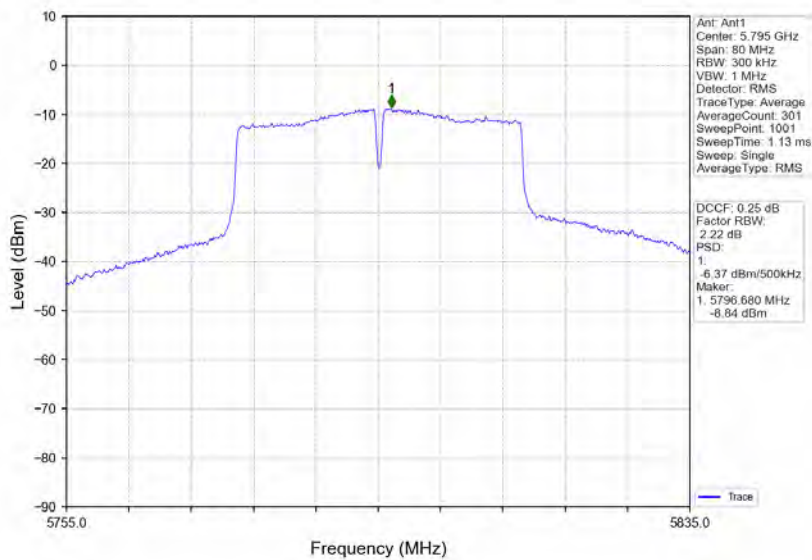
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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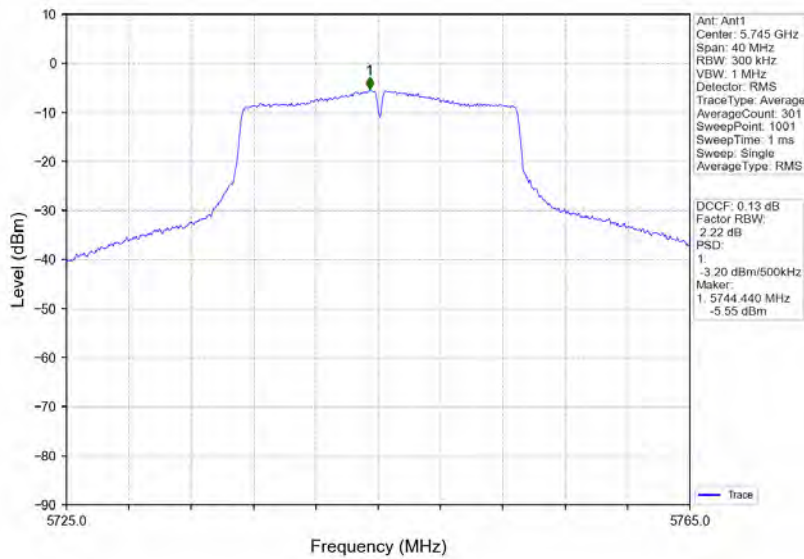
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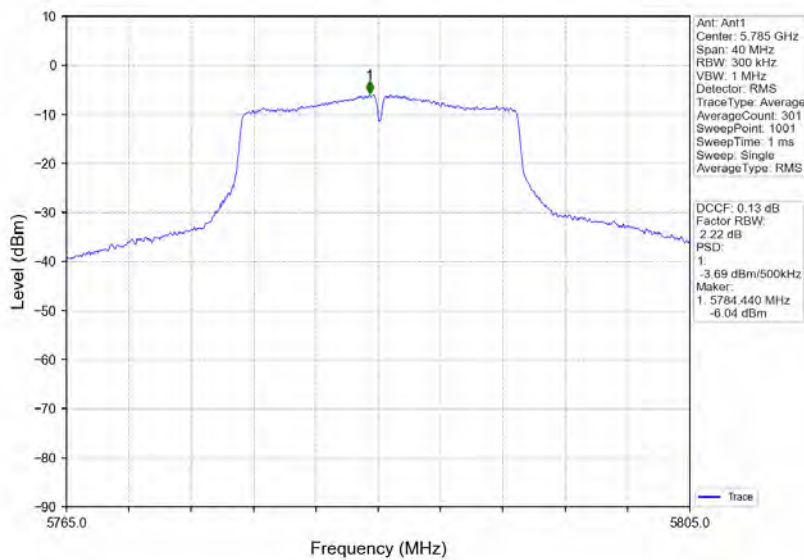
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

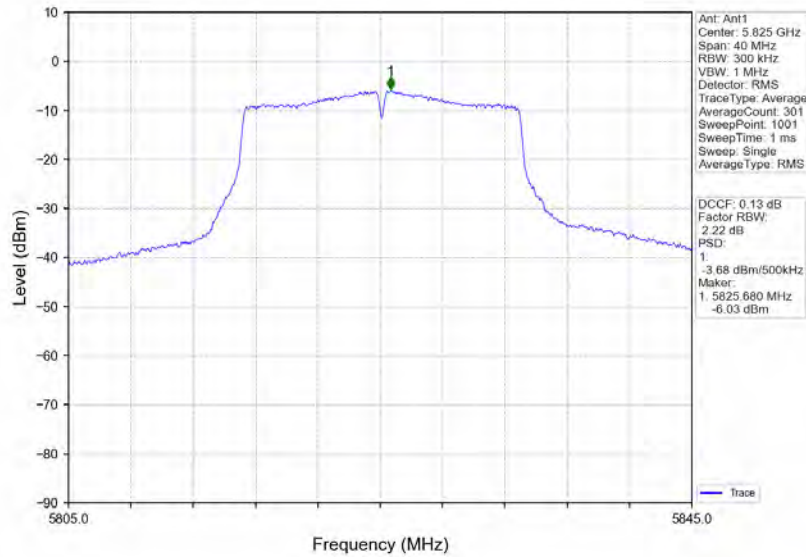


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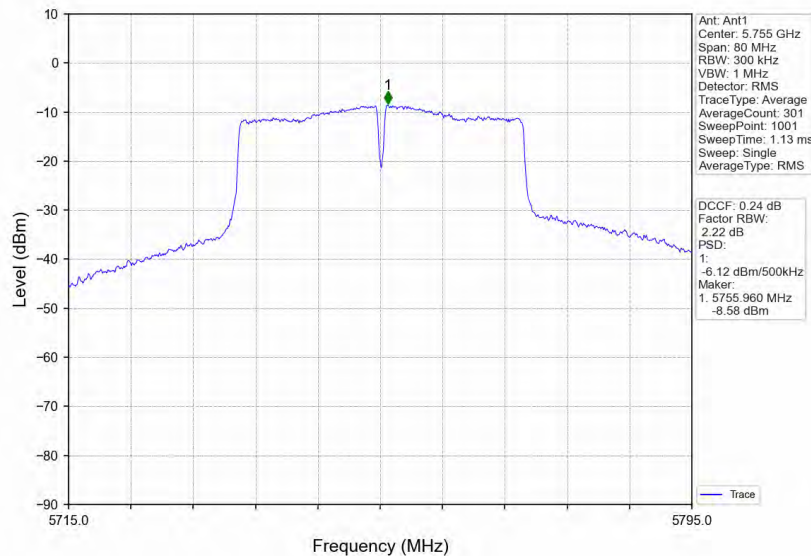
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



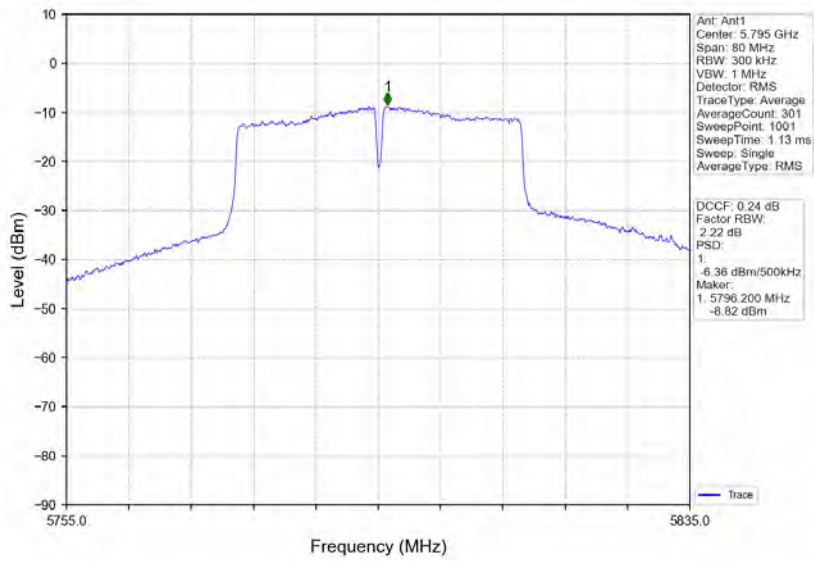
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



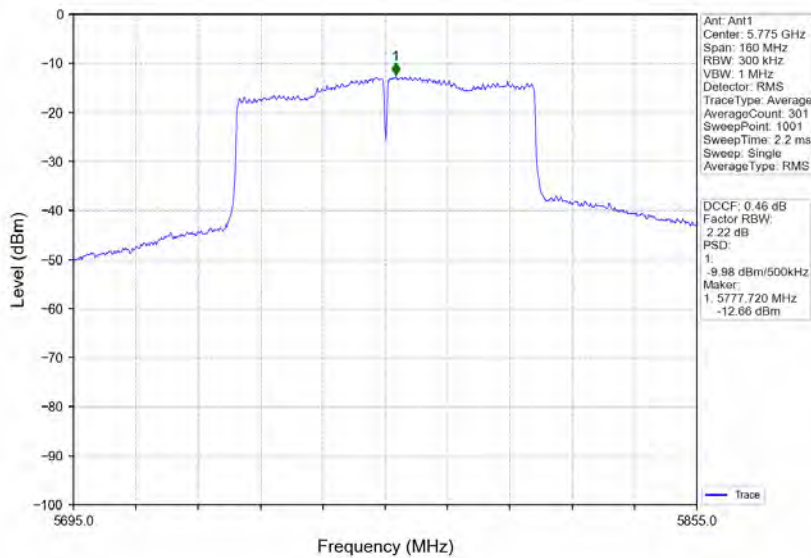
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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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	5180.140	5150 to 5250	Pass	
				120	5180.080	5150 to 5250	Pass	
				138	5180.100	5150 to 5250	Pass	
			-30	120	5180.080	5150 to 5250	Pass	
				-20	120	5180.100	5150 to 5250	Pass
					-10	120	5180.080	5150 to 5250
			0	120	5180.080	5150 to 5250	Pass	
				10	120	5180.080	5150 to 5250	Pass
			30	120	5180.080	5150 to 5250	Pass	
			40	120	5180.100	5150 to 5250	Pass	
		50	120	5180.040	5150 to 5250	Pass		
		5200	20	102	5200.100	5150 to 5250	Pass	
				120	5200.120	5150 to 5250	Pass	
				138	5200.100	5150 to 5250	Pass	
			-30	120	5200.080	5150 to 5250	Pass	
				-20	120	5200.080	5150 to 5250	Pass
					-10	120	5200.080	5150 to 5250
			0	120	5200.100	5150 to 5250	Pass	
				10	120	5200.140	5150 to 5250	Pass
			30	120	5200.080	5150 to 5250	Pass	
			40	120	5200.080	5150 to 5250	Pass	
		50	120	5200.120	5150 to 5250	Pass		
		5240	20	102	5240.120	5150 to 5250	Pass	
				120	5240.080	5150 to 5250	Pass	
				138	5240.080	5150 to 5250	Pass	
			-30	120	5240.060	5150 to 5250	Pass	
				-20	120	5240.100	5150 to 5250	Pass
					-10	120	5240.100	5150 to 5250
			0	120	5240.100	5150 to 5250	Pass	
				10	120	5240.120	5150 to 5250	Pass
30	120	5240.100	5150 to 5250	Pass				



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			40	120	5240.120	5150 to 5250	Pass	
			50	120	5240.120	5150 to 5250	Pass	
			20	102	5745.120	5725 to 5850	Pass	
				120	5745.060	5725 to 5850	Pass	
				138	5745.020	5725 to 5850	Pass	
			-30	120	5745.100	5725 to 5850	Pass	
			-20	120	5745.060	5725 to 5850	Pass	
			-10	120	5745.140	5725 to 5850	Pass	
			0	120	5745.060	5725 to 5850	Pass	
			10	120	5745.040	5725 to 5850	Pass	
			30	120	5745.040	5725 to 5850	Pass	
			40	120	5745.100	5725 to 5850	Pass	
			50	120	5745.080	5725 to 5850	Pass	
			5745	20	102	5785.080	5725 to 5850	Pass
					120	5785.060	5725 to 5850	Pass
					138	5785.100	5725 to 5850	Pass
				-30	120	5785.160	5725 to 5850	Pass
				-20	120	5785.140	5725 to 5850	Pass
				-10	120	5785.120	5725 to 5850	Pass
				0	120	5785.100	5725 to 5850	Pass
				10	120	5785.120	5725 to 5850	Pass
				30	120	5785.120	5725 to 5850	Pass
				40	120	5785.020	5725 to 5850	Pass
			5785	20	102	5825.100	5725 to 5850	Pass
					120	5825.080	5725 to 5850	Pass
					138	5825.020	5725 to 5850	Pass
				-30	120	5825.100	5725 to 5850	Pass
				-20	120	5825.080	5725 to 5850	Pass
				-10	120	5825.140	5725 to 5850	Pass
				0	120	5825.040	5725 to 5850	Pass
				10	120	5825.040	5725 to 5850	Pass
				30	120	5825.040	5725 to 5850	Pass
				40	120	5825.040	5725 to 5850	Pass
			5825	20	102	5180.120	5150 to 5250	Pass
					120	5180.120	5150 to 5250	Pass
					138	5180.060	5150 to 5250	Pass
				-30	120	5180.080	5150 to 5250	Pass
				-20	120	5180.100	5150 to 5250	Pass



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		-10	120	5180.040	5150 to 5250	Pass
		0	120	5180.120	5150 to 5250	Pass
		10	120	5180.060	5150 to 5250	Pass
		30	120	5180.100	5150 to 5250	Pass
		40	120	5180.120	5150 to 5250	Pass
		50	120	5180.120	5150 to 5250	Pass
	5200	20	102	5200.100	5150 to 5250	Pass
			120	5200.080	5150 to 5250	Pass
			138	5200.120	5150 to 5250	Pass
		-30	120	5200.120	5150 to 5250	Pass
		-20	120	5200.040	5150 to 5250	Pass
		-10	120	5200.140	5150 to 5250	Pass
		0	120	5200.100	5150 to 5250	Pass
		10	120	5200.180	5150 to 5250	Pass
		30	120	5200.160	5150 to 5250	Pass
		40	120	5200.120	5150 to 5250	Pass
		50	120	5200.100	5150 to 5250	Pass
		5240	20	102	5240.120	5150 to 5250
	120			5240.140	5150 to 5250	Pass
	138			5240.200	5150 to 5250	Pass
	-30		120	5240.120	5150 to 5250	Pass
	-20		120	5240.080	5150 to 5250	Pass
	-10		120	5240.120	5150 to 5250	Pass
	0		120	5240.140	5150 to 5250	Pass
	10		120	5240.140	5150 to 5250	Pass
	30		120	5240.220	5150 to 5250	Pass
	40		120	5240.100	5150 to 5250	Pass
	50	120	5240.060	5150 to 5250	Pass	
	5745	20	102	5745.080	5725 to 5850	Pass
			120	5745.140	5725 to 5850	Pass
			138	5745.080	5725 to 5850	Pass
		-30	120	5745.120	5725 to 5850	Pass
		-20	120	5745.120	5725 to 5850	Pass
		-10	120	5745.100	5725 to 5850	Pass
		0	120	5745.100	5725 to 5850	Pass
		10	120	5745.080	5725 to 5850	Pass
30		120	5745.080	5725 to 5850	Pass	
40		120	5745.120	5725 to 5850	Pass	
50	120	5745.000	5725 to 5850	Pass		
5785	20	102	5785.140	5725 to 5850	Pass	



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		5825		120	5785.140	5725 to 5850	Pass	
				138	5785.120	5725 to 5850	Pass	
			-30	120	5785.100	5725 to 5850	Pass	
			-20	120	5785.140	5725 to 5850	Pass	
			-10	120	5785.140	5725 to 5850	Pass	
			0	120	5785.120	5725 to 5850	Pass	
			10	120	5785.120	5725 to 5850	Pass	
			30	120	5785.120	5725 to 5850	Pass	
			40	120	5785.100	5725 to 5850	Pass	
			50	120	5785.140	5725 to 5850	Pass	
		5825	20		102	5825.100	5725 to 5850	Pass
					120	5825.100	5725 to 5850	Pass
					138	5825.080	5725 to 5850	Pass
			-30	120	5825.100	5725 to 5850	Pass	
			-20	120	5825.160	5725 to 5850	Pass	
			-10	120	5825.100	5725 to 5850	Pass	
			0	120	5825.100	5725 to 5850	Pass	
			10	120	5825.140	5725 to 5850	Pass	
			30	120	5825.080	5725 to 5850	Pass	
			40	120	5825.060	5725 to 5850	Pass	
50	120	5825.100	5725 to 5850	Pass				
802.11n (HT40)	SISO	5190	20		102	5190.080	5150 to 5250	Pass
					120	5190.160	5150 to 5250	Pass
					138	5190.200	5150 to 5250	Pass
			-30	120	5190.120	5150 to 5250	Pass	
			-20	120	5190.200	5150 to 5250	Pass	
			-10	120	5190.160	5150 to 5250	Pass	
			0	120	5190.080	5150 to 5250	Pass	
		10	120	5190.080	5150 to 5250	Pass		
		30	120	5190.160	5150 to 5250	Pass		
		40	120	5190.120	5150 to 5250	Pass		
		50	120	5190.160	5150 to 5250	Pass		
		5230	20		102	5230.080	5150 to 5250	Pass
					120	5230.120	5150 to 5250	Pass
					138	5230.200	5150 to 5250	Pass
-30	120		5230.120	5150 to 5250	Pass			
-20	120		5230.160	5150 to 5250	Pass			
-10	120		5230.160	5150 to 5250	Pass			
0	120		5230.200	5150 to 5250	Pass			
10	120	5230.160	5150 to 5250	Pass				



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		5755	30	120	5230.160	5150 to 5250	Pass
			40	120	5230.200	5150 to 5250	Pass
			50	120	5230.120	5150 to 5250	Pass
			20	102	5755.200	5725 to 5850	Pass
				120	5755.160	5725 to 5850	Pass
				138	5755.120	5725 to 5850	Pass
			-30	120	5755.160	5725 to 5850	Pass
			-20	120	5755.240	5725 to 5850	Pass
			-10	120	5755.160	5725 to 5850	Pass
		0	120	5755.200	5725 to 5850	Pass	
		10	120	5755.160	5725 to 5850	Pass	
		30	120	5755.160	5725 to 5850	Pass	
		40	120	5755.240	5725 to 5850	Pass	
		50	120	5755.160	5725 to 5850	Pass	
		5795	20	102	5795.200	5725 to 5850	Pass
				120	5795.160	5725 to 5850	Pass
				138	5795.200	5725 to 5850	Pass
			-30	120	5795.120	5725 to 5850	Pass
			-20	120	5795.200	5725 to 5850	Pass
			-10	120	5795.160	5725 to 5850	Pass
			0	120	5795.160	5725 to 5850	Pass
			10	120	5795.240	5725 to 5850	Pass
			30	120	5795.200	5725 to 5850	Pass
			40	120	5795.200	5725 to 5850	Pass
50	120		5795.200	5725 to 5850	Pass		
802.11ac (VHT20)	SISO		5180	20	102	5180.100	5150 to 5250
		120			5180.120	5150 to 5250	Pass
		138			5180.120	5150 to 5250	Pass
		-30		120	5180.080	5150 to 5250	Pass
		-20		120	5180.060	5150 to 5250	Pass
		-10		120	5180.080	5150 to 5250	Pass
		0		120	5179.980	5150 to 5250	Pass
		10		120	5180.060	5150 to 5250	Pass
		30		120	5180.060	5150 to 5250	Pass
		40	120	5180.100	5150 to 5250	Pass	
		50	120	5180.060	5150 to 5250	Pass	
		5200	20	102	5200.080	5150 to 5250	Pass
120	5200.120			5150 to 5250	Pass		
138	5200.120			5150 to 5250	Pass		
-30	120			5200.140	5150 to 5250	Pass	



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			-20	120	5200.080	5150 to 5250	Pass	
			-10	120	5200.100	5150 to 5250	Pass	
			0	120	5200.120	5150 to 5250	Pass	
			10	120	5200.120	5150 to 5250	Pass	
			30	120	5200.100	5150 to 5250	Pass	
			40	120	5200.180	5150 to 5250	Pass	
			50	120	5200.100	5150 to 5250	Pass	
		5240	20	102	5240.120	5150 to 5250	Pass	
				120	5240.120	5150 to 5250	Pass	
				138	5240.140	5150 to 5250	Pass	
			-30	120	5240.060	5150 to 5250	Pass	
			-20	120	5240.080	5150 to 5250	Pass	
			-10	120	5240.140	5150 to 5250	Pass	
			0	120	5240.100	5150 to 5250	Pass	
			10	120	5240.060	5150 to 5250	Pass	
			30	120	5240.060	5150 to 5250	Pass	
			40	120	5240.100	5150 to 5250	Pass	
			50	120	5240.080	5150 to 5250	Pass	
			5745	20	102	5745.100	5725 to 5850	Pass
					120	5745.100	5725 to 5850	Pass
		138			5745.100	5725 to 5850	Pass	
		-30		120	5745.060	5725 to 5850	Pass	
		-20		120	5745.100	5725 to 5850	Pass	
		-10		120	5745.080	5725 to 5850	Pass	
		0		120	5745.120	5725 to 5850	Pass	
		10		120	5745.020	5725 to 5850	Pass	
		30		120	5745.020	5725 to 5850	Pass	
		40		120	5745.160	5725 to 5850	Pass	
		50	120	5745.080	5725 to 5850	Pass		
		5785	20	102	5785.140	5725 to 5850	Pass	
				120	5785.100	5725 to 5850	Pass	
				138	5785.080	5725 to 5850	Pass	
			-30	120	5785.100	5725 to 5850	Pass	
			-20	120	5785.140	5725 to 5850	Pass	
			-10	120	5785.100	5725 to 5850	Pass	
			0	120	5785.100	5725 to 5850	Pass	
			10	120	5785.120	5725 to 5850	Pass	
			30	120	5785.100	5725 to 5850	Pass	
			40	120	5785.080	5725 to 5850	Pass	
		50	120	5785.100	5725 to 5850	Pass		



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		5825	20	102	5825.140	5725 to 5850	Pass
				120	5825.080	5725 to 5850	Pass
				138	5825.060	5725 to 5850	Pass
			-30	120	5825.080	5725 to 5850	Pass
			-20	120	5825.120	5725 to 5850	Pass
			-10	120	5825.100	5725 to 5850	Pass
			0	120	5825.060	5725 to 5850	Pass
			10	120	5825.040	5725 to 5850	Pass
			30	120	5825.060	5725 to 5850	Pass
			40	120	5825.060	5725 to 5850	Pass
50	120	5825.120	5725 to 5850	Pass			
802.11ac (VHT40)	SISO	5190	20	102	5190.160	5150 to 5250	Pass
				120	5190.040	5150 to 5250	Pass
				138	5190.200	5150 to 5250	Pass
			-30	120	5190.120	5150 to 5250	Pass
			-20	120	5190.200	5150 to 5250	Pass
			-10	120	5190.160	5150 to 5250	Pass
			0	120	5190.160	5150 to 5250	Pass
			10	120	5190.120	5150 to 5250	Pass
			30	120	5190.120	5150 to 5250	Pass
			40	120	5190.160	5150 to 5250	Pass
		50	120	5190.120	5150 to 5250	Pass	
		5230	20	102	5230.240	5150 to 5250	Pass
				120	5230.200	5150 to 5250	Pass
				138	5230.200	5150 to 5250	Pass
			-30	120	5230.240	5150 to 5250	Pass
			-20	120	5230.200	5150 to 5250	Pass
			-10	120	5230.160	5150 to 5250	Pass
			0	120	5230.240	5150 to 5250	Pass
			10	120	5230.160	5150 to 5250	Pass
			30	120	5230.200	5150 to 5250	Pass
40	120		5230.160	5150 to 5250	Pass		
50	120	5230.160	5150 to 5250	Pass			
5755	20	102	5755.160	5725 to 5850	Pass		
		120	5755.080	5725 to 5850	Pass		
		138	5755.200	5725 to 5850	Pass		
	-30	120	5755.200	5725 to 5850	Pass		
	-20	120	5755.200	5725 to 5850	Pass		
	-10	120	5755.200	5725 to 5850	Pass		
	0	120	5755.160	5725 to 5850	Pass		



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			10	120	5755.160	5725 to 5850	Pass		
			30	120	5755.160	5725 to 5850	Pass		
			40	120	5755.200	5725 to 5850	Pass		
			50	120	5755.120	5725 to 5850	Pass		
		5795	20	102	5795.120	5725 to 5850	Pass		
				120	5795.200	5725 to 5850	Pass		
				138	5795.200	5725 to 5850	Pass		
			-30	120	5795.200	5725 to 5850	Pass		
			-20	120	5795.200	5725 to 5850	Pass		
			-10	120	5795.200	5725 to 5850	Pass		
			0	120	5795.200	5725 to 5850	Pass		
			10	120	5795.200	5725 to 5850	Pass		
			30	120	5795.160	5725 to 5850	Pass		
			40	120	5795.120	5725 to 5850	Pass		
			50	120	5795.200	5725 to 5850	Pass		
			802.11ac (VHT80)	SISO	5210	20	102	5210.150	5150 to 5250
		120					5210.150	5150 to 5250	Pass
		138					5210.150	5150 to 5250	Pass
		-30				120	5210.150	5150 to 5250	Pass
		-20				120	5210.150	5150 to 5250	Pass
-10	120	5210.150				5150 to 5250	Pass		
0	120	5210.150				5150 to 5250	Pass		
10	120	5210.150				5150 to 5250	Pass		
30	120	5210.075				5150 to 5250	Pass		
40	120	5210.150			5150 to 5250	Pass			
50	120	5210.150			5150 to 5250	Pass			
5775	20	102			5775.225	5725 to 5850	Pass		
		120			5775.225	5725 to 5850	Pass		
		138			5775.225	5725 to 5850	Pass		
	-30	120			5775.225	5725 to 5850	Pass		
	-20	120			5775.225	5725 to 5850	Pass		
	-10	120			5775.225	5725 to 5850	Pass		
	0	120			5775.225	5725 to 5850	Pass		
	10	120	5775.300	5725 to 5850	Pass				
	30	120	5775.225	5725 to 5850	Pass				
40	120	5775.150	5725 to 5850	Pass					
50	120	5775.225	5725 to 5850	Pass					

- End of the Report -



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