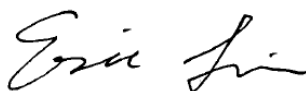


TEST REPORT

Application No.: KSCR2304000708AT
FCC ID: 2AOQI-SRD1
IC: 25690-SRD1
Applicant: NextVPU (Shanghai) Co., Ltd.
Address of Applicant: Room 501, Building 7, No. 3000 Longdong Avenue, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China
Manufacturer: NextVPU (Shanghai) Co., Ltd.
Address of Manufacturer: Room 501, Building 7, No. 3000 Longdong Avenue, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China
Equipment Under Test (EUT):
EUT Name: Desktop Reader
Model No.: SR-D1
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2023-04-23
Date of Test: 2023-04-25 to 2023-05-15
Date of Issue: 2023-05-16

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

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



Eric Lin
Laboratory Manager



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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Revision Record			
Version	Description	Date	Remark
00	Original	2023-05-16	/

Authorized for issue by:			
		<i>Tommie Tang</i>	
		<u>Tommie_Tang/Project Engineer</u>	
		<i>Eric Lin</i>	
		<u>Eric Lin /Reviewer</u>	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart C 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass
99% Bandwidth	N/A	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1(1)	KDB 789033 D02 II C 1	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart C 15.407 (e)	RSS-247 Section 6.2.4	KDB 789033 D02 II C 2	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II E	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II F	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Frequency Stability	47 CFR Part 15, Subpart C 15.407 (g)	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass



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Compliance Certification Services (Kunshan) Inc.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.6V by rechargeable Li-ion battery charged by adapter Battery Model: YJ18650/2P Rated Voltage: 3.6V Rated Capacity: 24.12Wh, 6700mAh Adapter Model: SG-0502000AU Input: 100-240V,50/60Hz,0.3A MAX Output: 5.0V,2.0A,10.0W
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7 802.11ac: MCS0-9
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
Antenna Type:	FPC Antenna
Antenna Gain:	5150-5250MHz:1.47dBi, (Provided by the manufacturer) 5725-5850MHz:1.42dBi (Provided by the manufacturer)
S/N:	SRD1226180044
Firmware Version:	V1.0

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	Y7000P	/



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-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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4.4 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).

4.5 Test Facility

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

• A2LA

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

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

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

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.

4.6 Deviation from Standards

None

4.7 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	02/03/2023	02/02/2024
2	LISN	R&S	ENV216	KS301197	01/17/2023	01/16/2024
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/17/2023	01/16/2024
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/17/2023	01/16/2024
5	CE test Cable	Thermax	/	CZ301102	01/17/2023	01/16/2024
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	02/03/2023	02/02/2024
4	Signal Generator	R&S	SMBV100B	KSEM032	03/16/2023	03/15/2024
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/16/2023	03/15/2024
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
10	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
11	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	02/03/2023	02/02/2024
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	11/16/2022	11/15/2023
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/22/2023	03/21/2024
16	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	03/16/2023	03/15/2024
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	03/18/2023	03/17/2025
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	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/21/2023	02/20/2024
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	02/26/2023	02/25/2024
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/17/2023	01/16/2024
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/21/2023	01/20/2024



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12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/12/2022	11/11/2023
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01- 6J	KSEM024-4	03/22/2023	03/21/2024
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 integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna for 5150-5250MHz is 1.47 dBi; for 5745-5850MHz is 1.42 dBi. Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

6.2.2 Conclusion Standard Requirement: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met. EUT Details: WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

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

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

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C

Humidity: 45.6 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

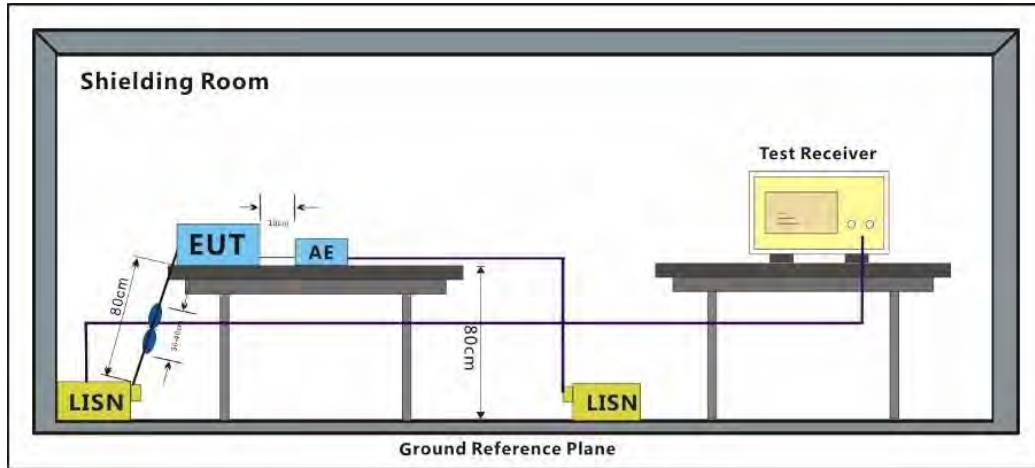


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 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.

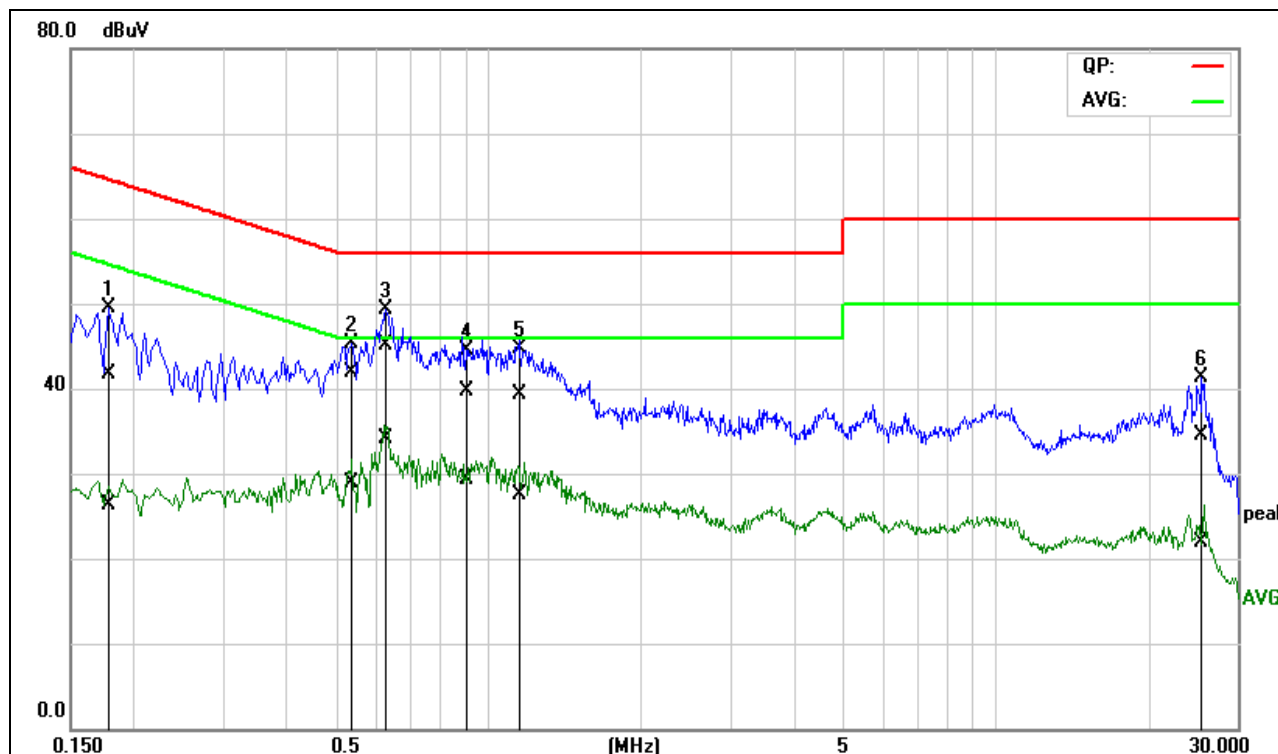
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 01; 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	0.1784	21.56	6.16	20.10	41.66	26.26	64.56	54.56	-22.90	-28.30	Pass
2	0.5309	21.83	8.96	20.03	41.86	28.99	56.00	46.00	-14.14	-17.01	Pass
3*	0.6313	25.21	14.25	19.95	45.16	34.20	56.00	46.00	-10.84	-11.80	Pass
4	0.8971	19.82	9.37	19.91	39.73	29.28	56.00	46.00	-16.27	-16.72	Pass
5	1.1624	19.42	7.66	19.94	39.36	27.60	56.00	46.00	-16.64	-18.40	Pass
6	25.6125	14.43	1.79	20.03	34.46	21.82	60.00	50.00	-25.54	-28.18	Pass



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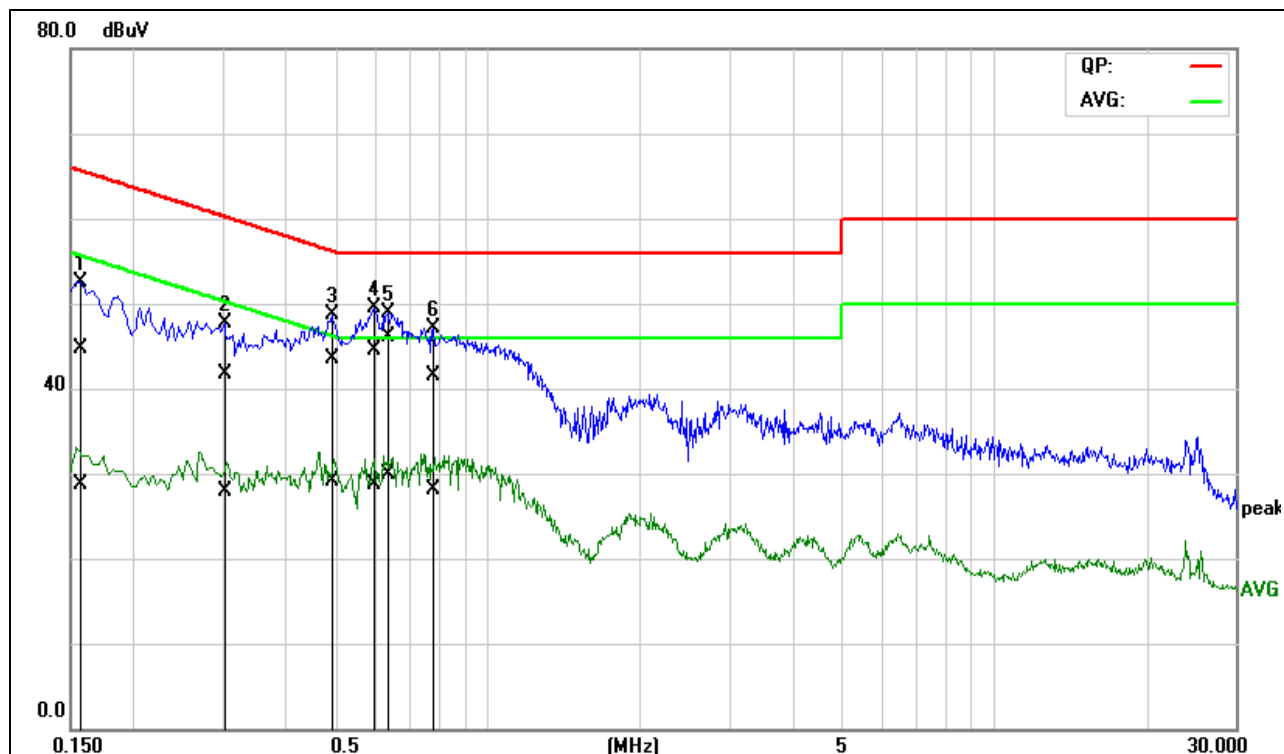
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Test Mode: 01; Line: Neutral Line



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	0.1550	24.52	8.48	20.25	44.77	28.73	65.73	55.73	-20.96	-27.00	Pass
2	0.3019	21.50	7.83	20.15	41.65	27.98	60.19	50.19	-18.54	-22.21	Pass
3	0.4934	23.42	9.03	20.06	43.48	29.09	56.11	46.11	-12.63	-17.02	Pass
4	0.6014	24.46	8.64	19.98	44.44	28.62	56.00	46.00	-11.56	-17.38	Pass
5*	0.6332	26.18	9.91	19.96	46.14	29.87	56.00	46.00	-9.86	-16.13	Pass
6	0.7797	21.47	8.20	19.94	41.41	28.14	56.00	46.00	-14.59	-17.86	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

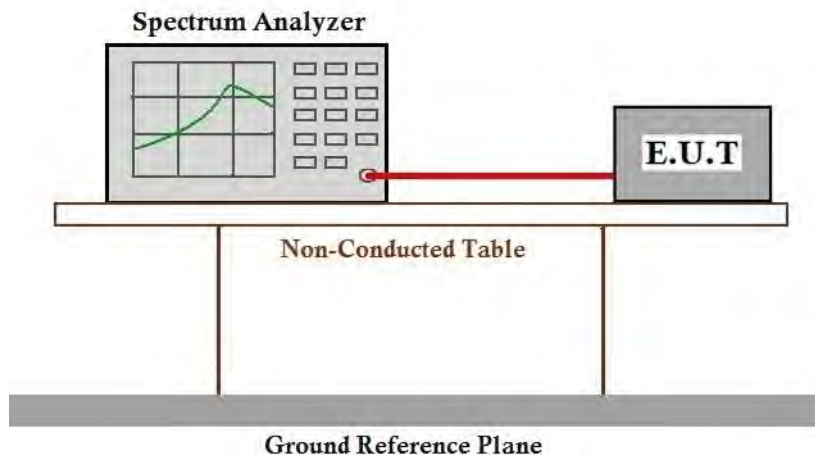
Operating Environment:

Temperature: 23.7 °C Humidity: 45.8 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

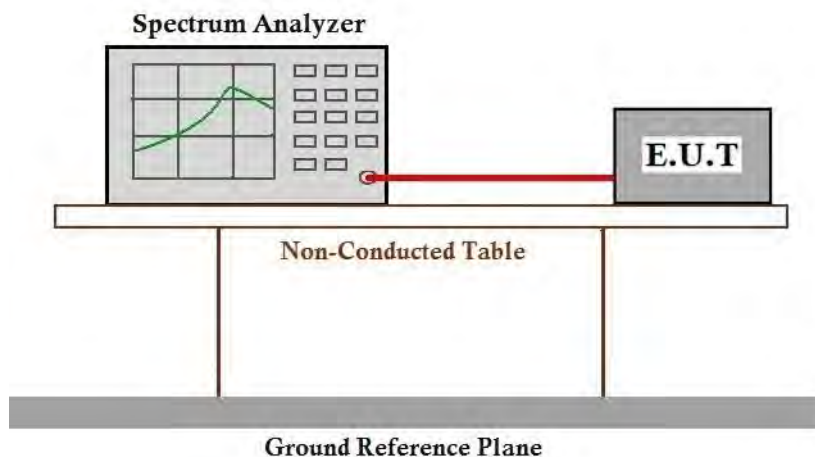
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.7 °C Humidity: 45.6 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

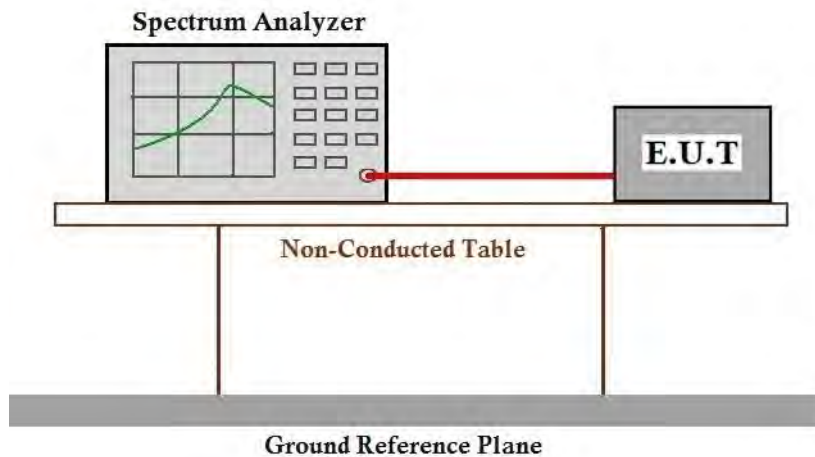
Operating Environment:

Temperature: 23.7 °C Humidity: 45.3 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 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: 23.7 °C

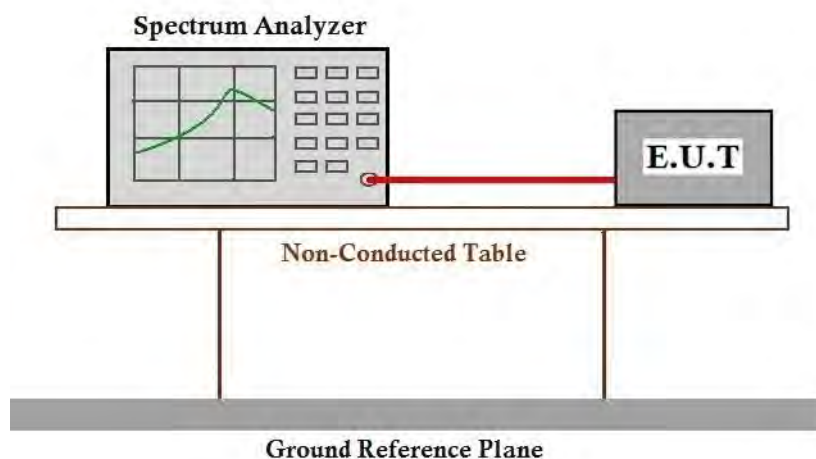
Humidity: 45.7 % RH

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

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 45.6 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data

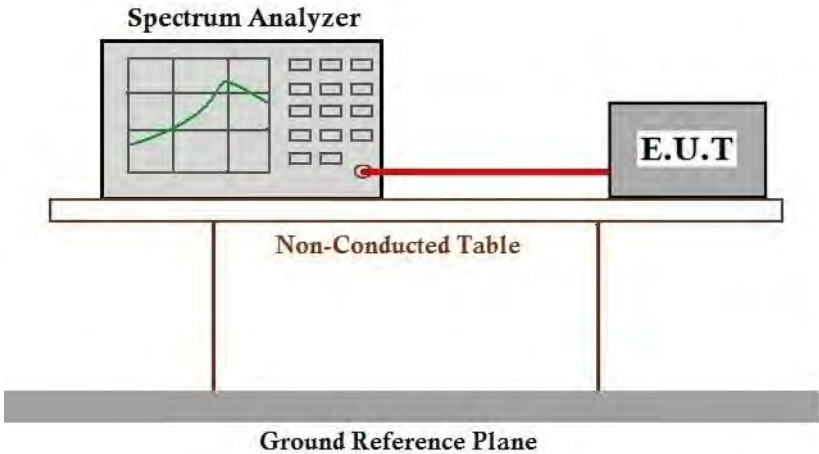


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	of worst case is recorded in the report.
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7.6.3 Test Setup Diagram



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 E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 45.4 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

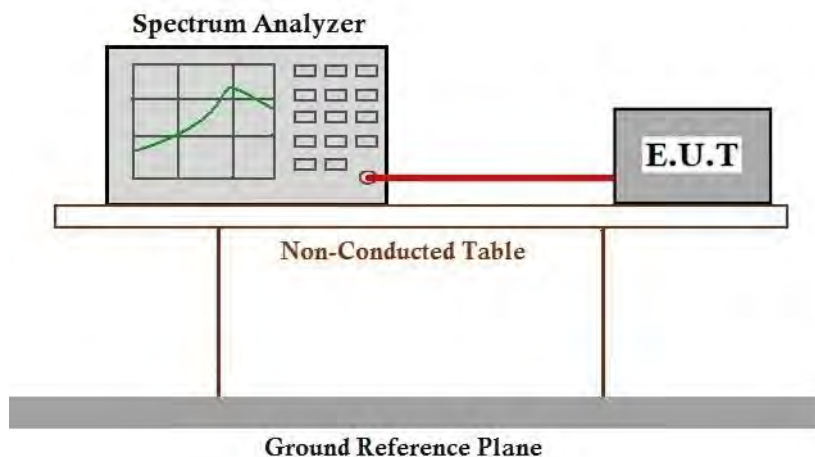


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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C

Humidity: 44.2 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

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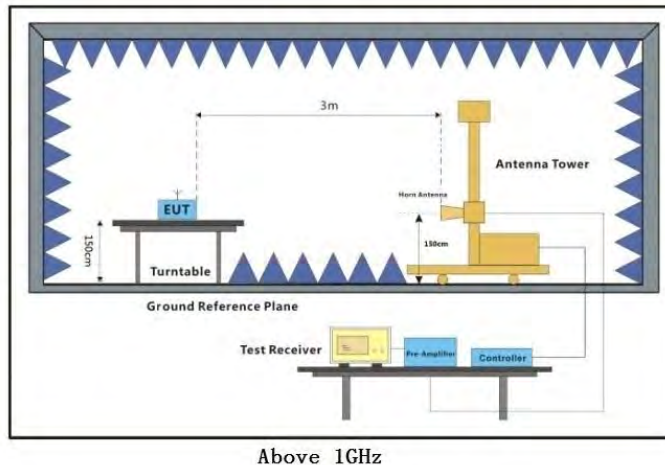
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Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;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

7.8.3 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.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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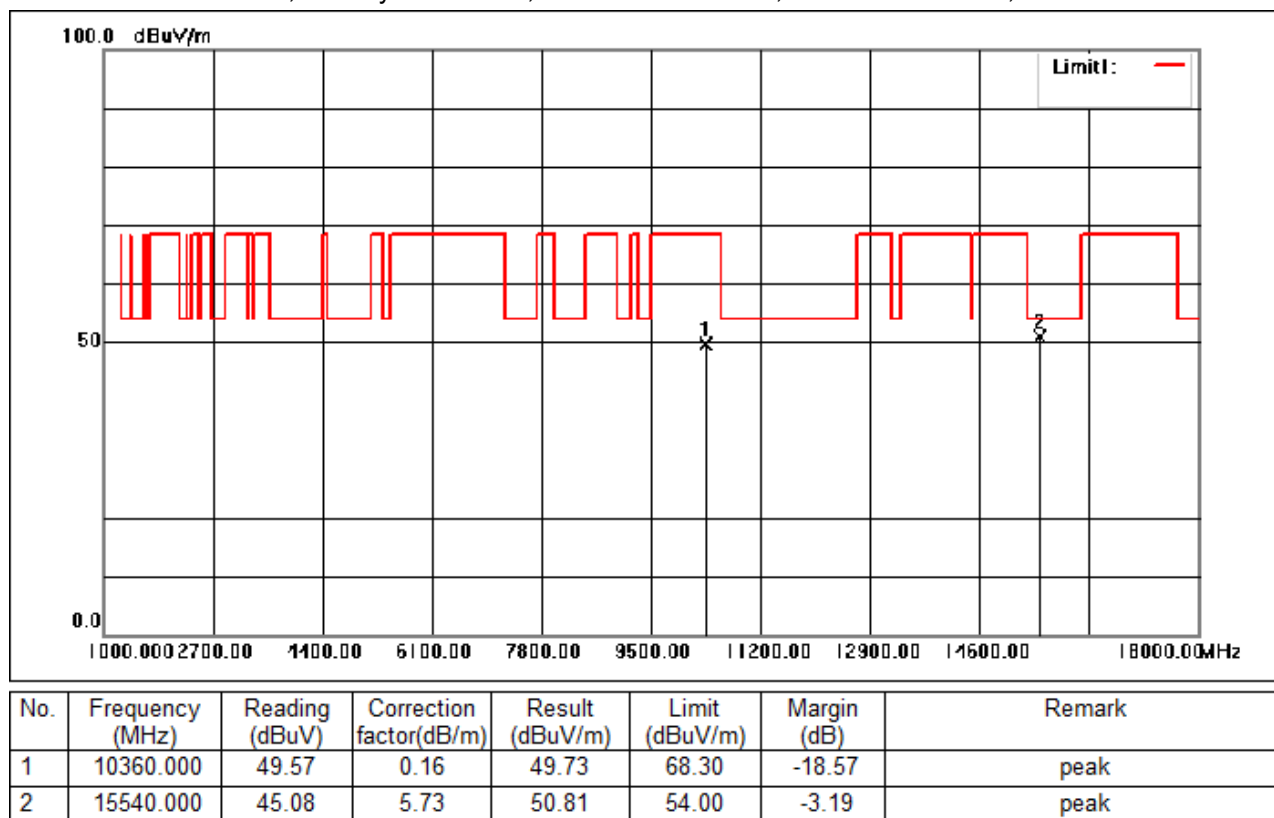
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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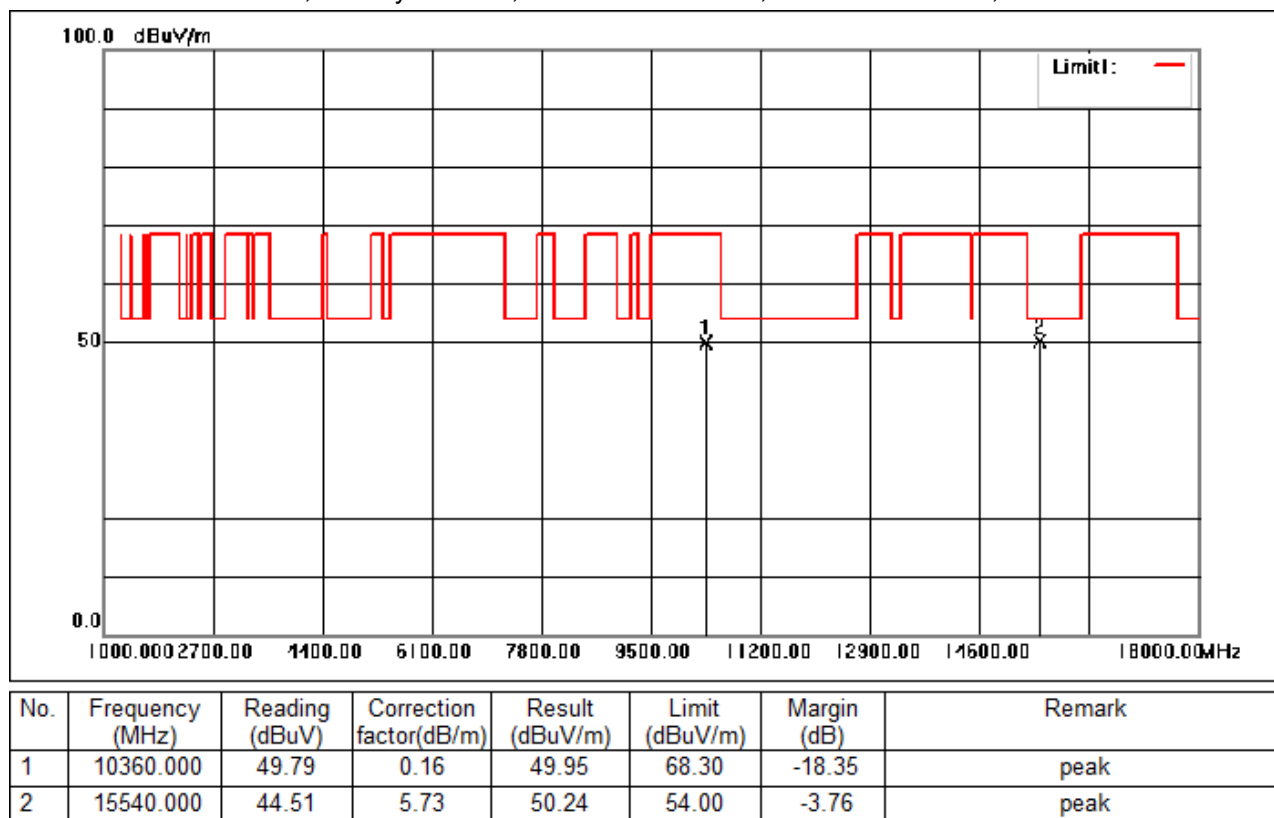
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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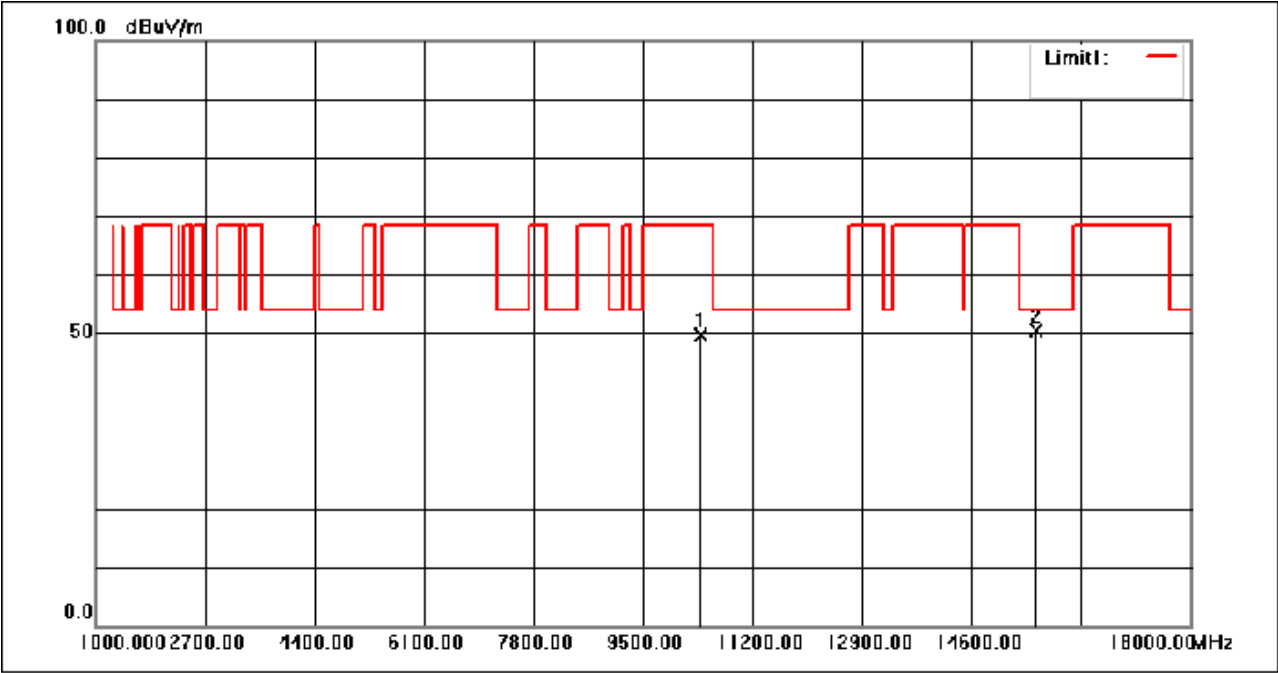
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	49.48	0.24	49.72	68.30	-18.58	peak
2	15600.000	44.52	5.85	50.37	54.00	-3.63	peak



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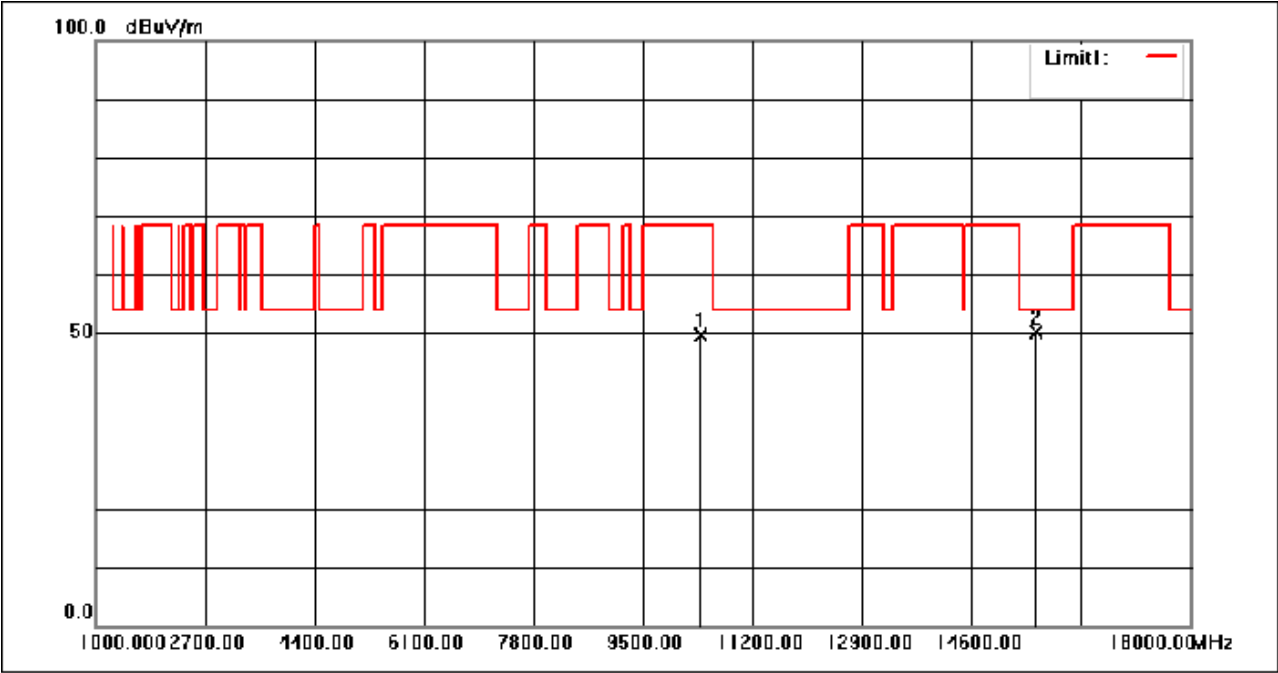
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Compliance Certification Services (Kunshan) Inc.

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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	49.46	0.24	49.70	68.30	-18.60	peak
2	15600.000	44.24	5.85	50.09	54.00	-3.91	peak



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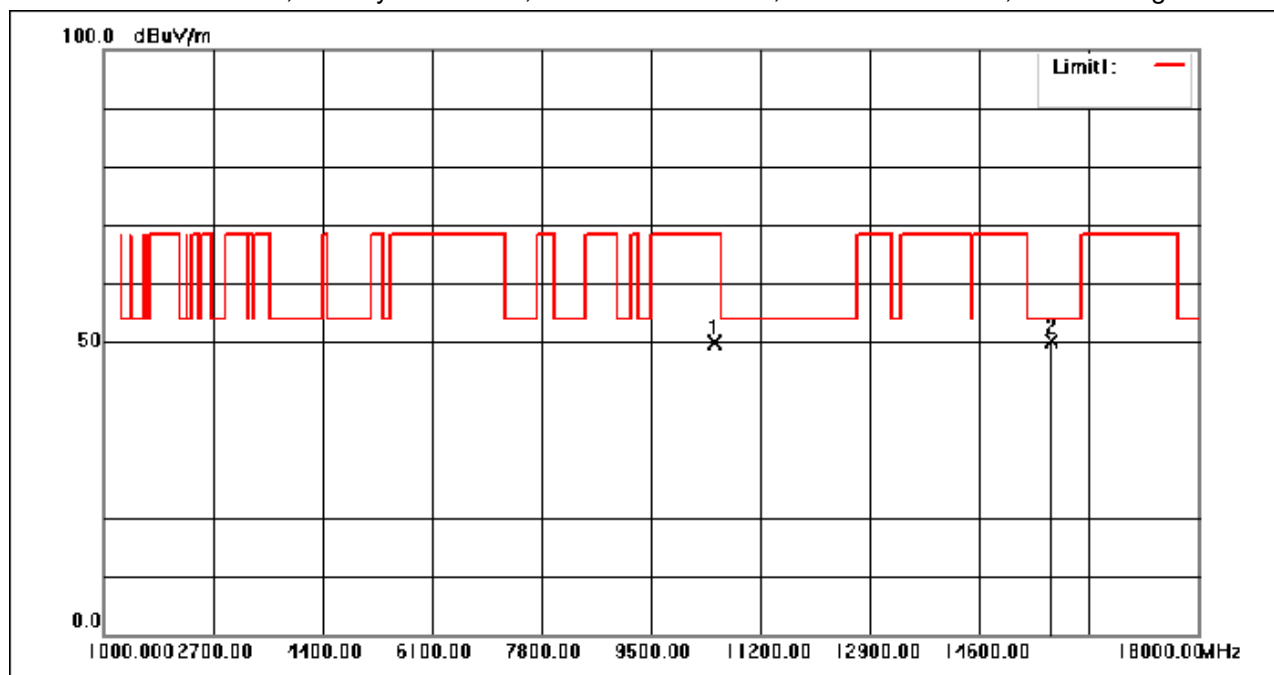
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	49.45	0.40	49.85	68.30	-18.45	peak
2	15720.000	43.99	6.10	50.09	54.00	-3.91	peak



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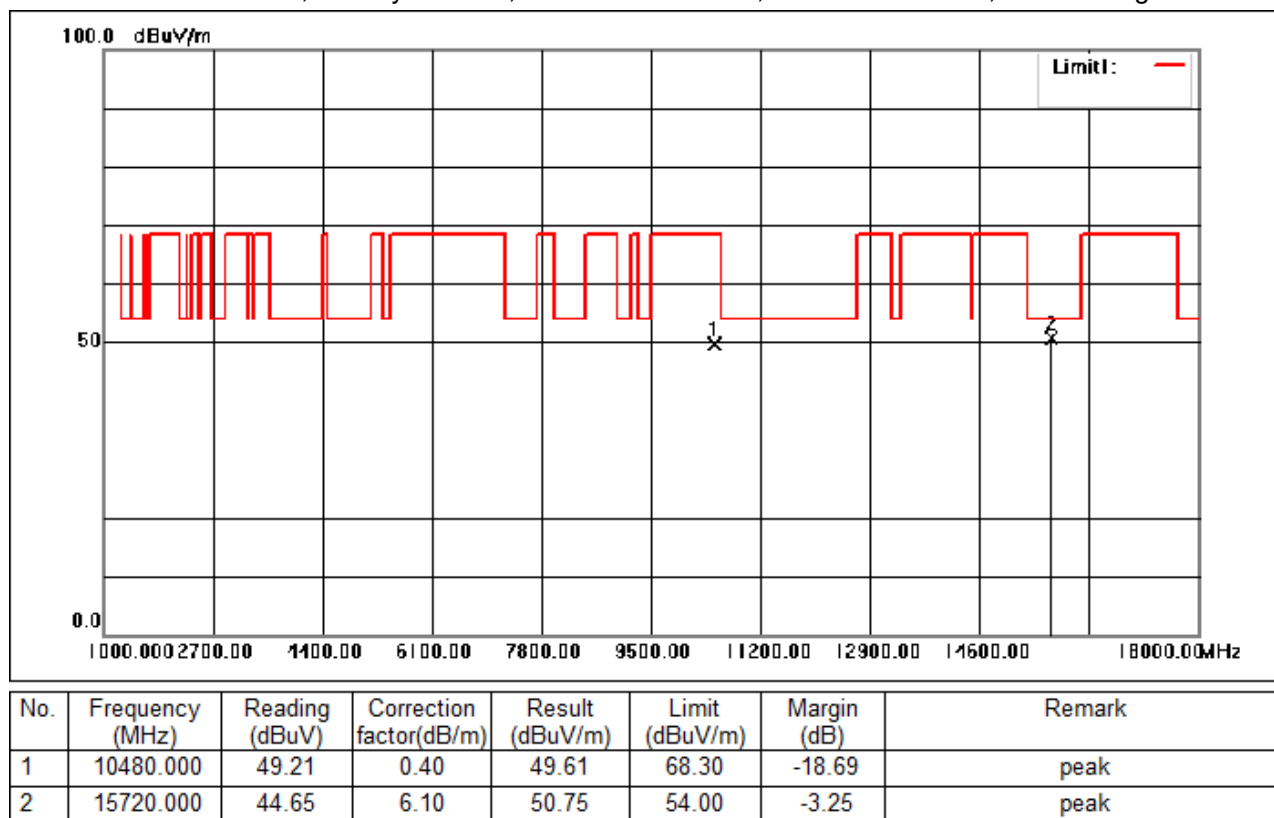
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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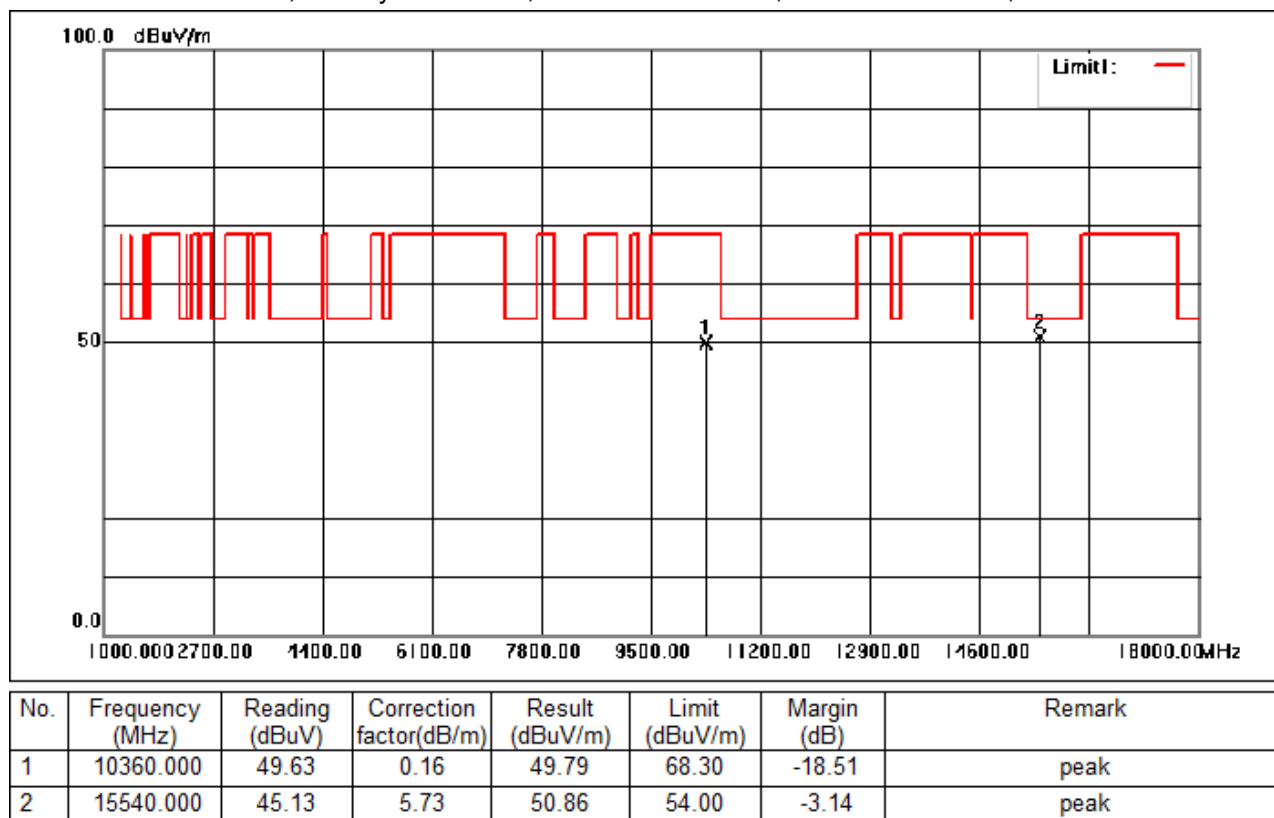
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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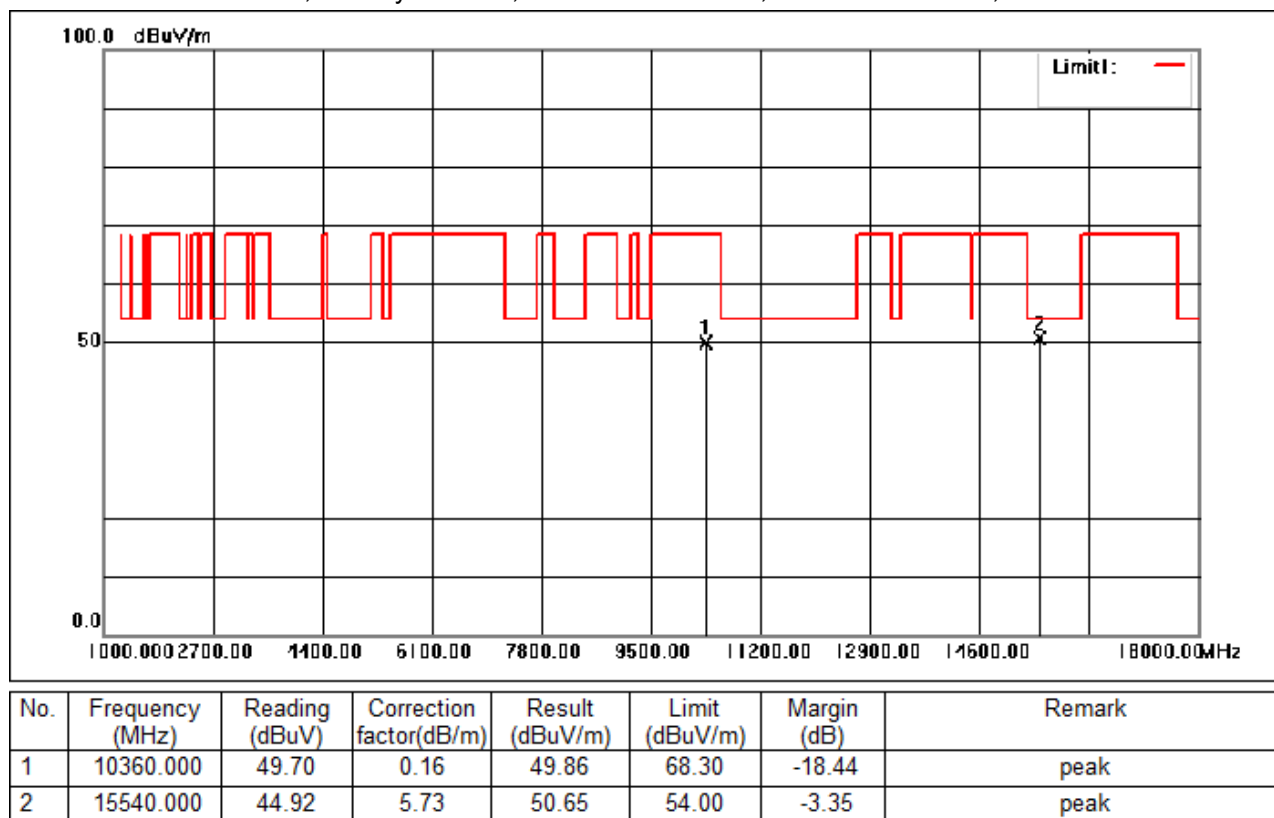
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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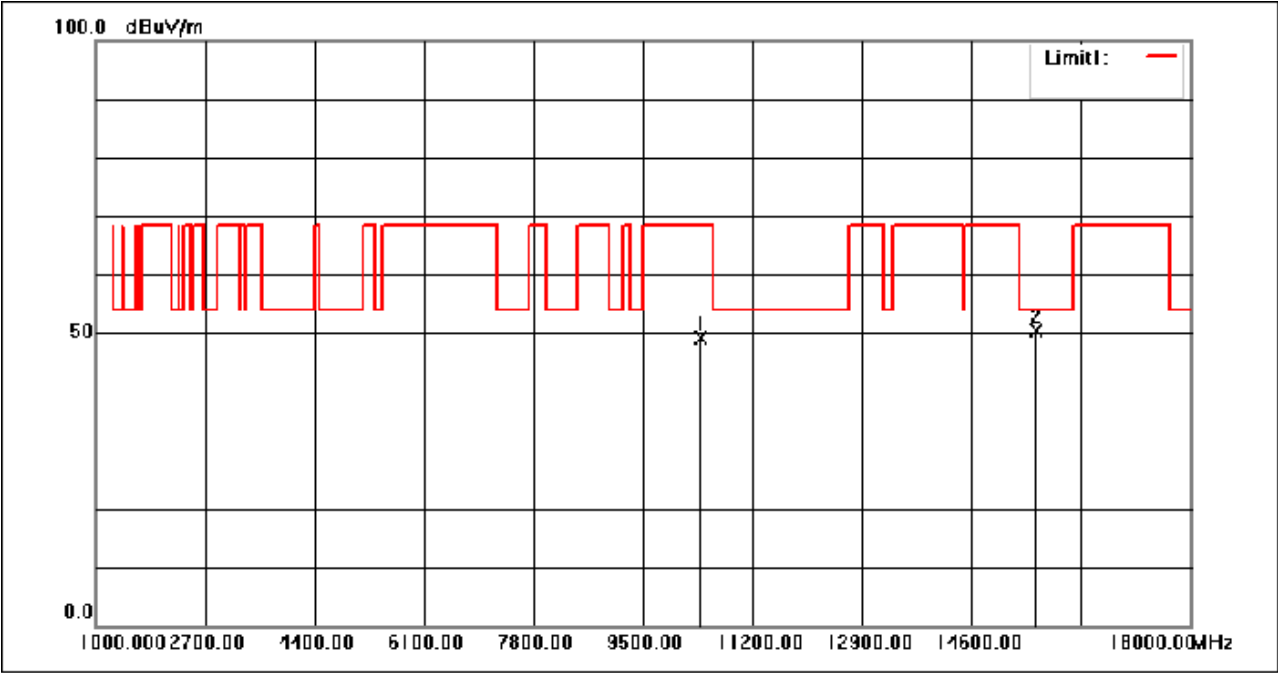
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.77	0.24	49.01	68.30	-19.29	peak
2	15600.000	44.49	5.85	50.34	54.00	-3.66	peak



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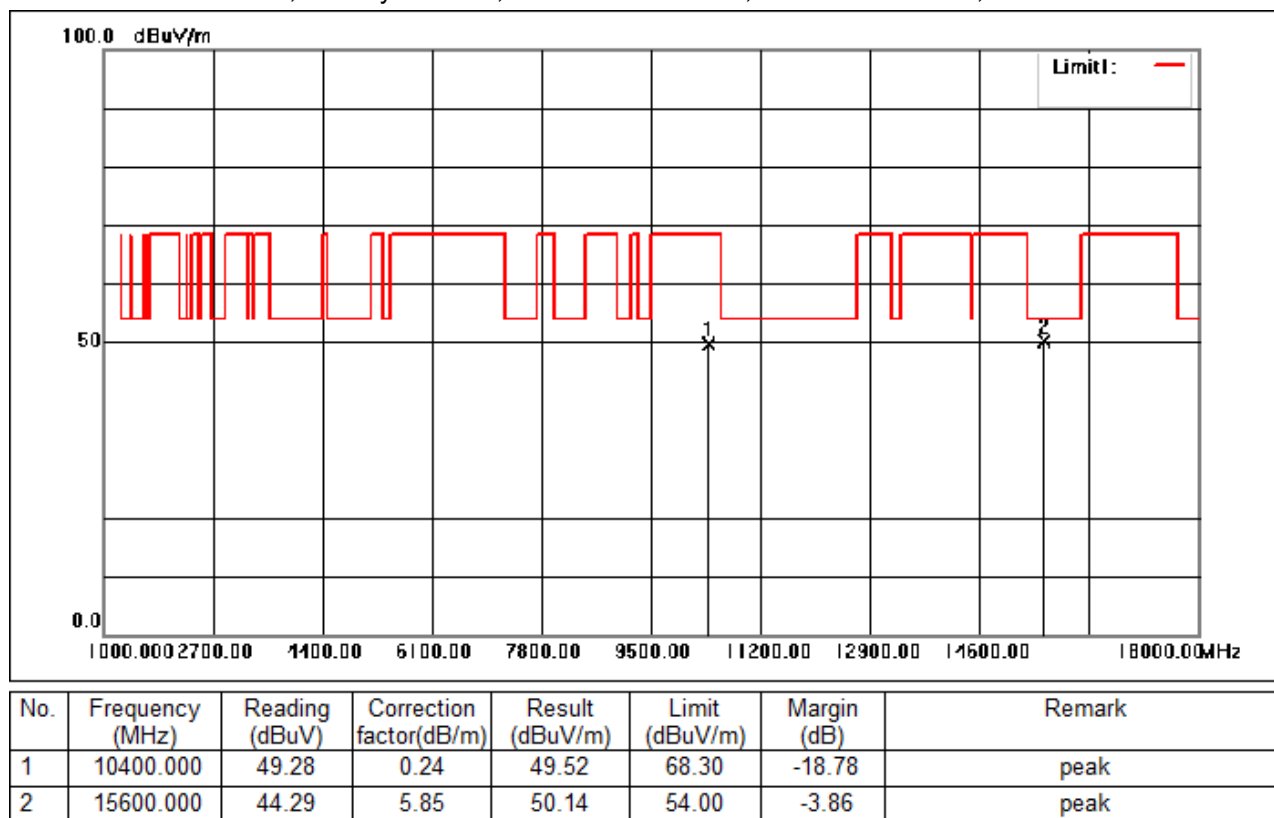
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



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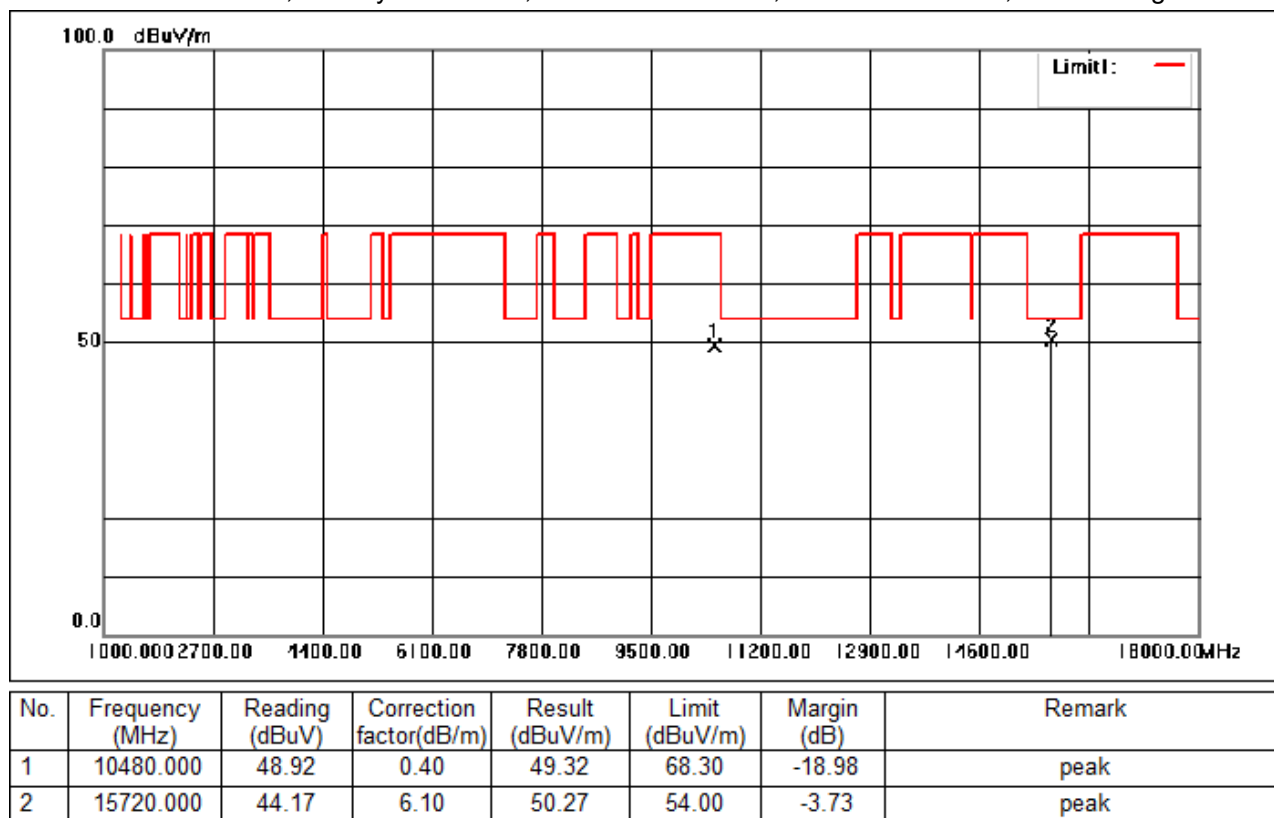
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Compliance Certification Services (Kunshan) Inc.

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



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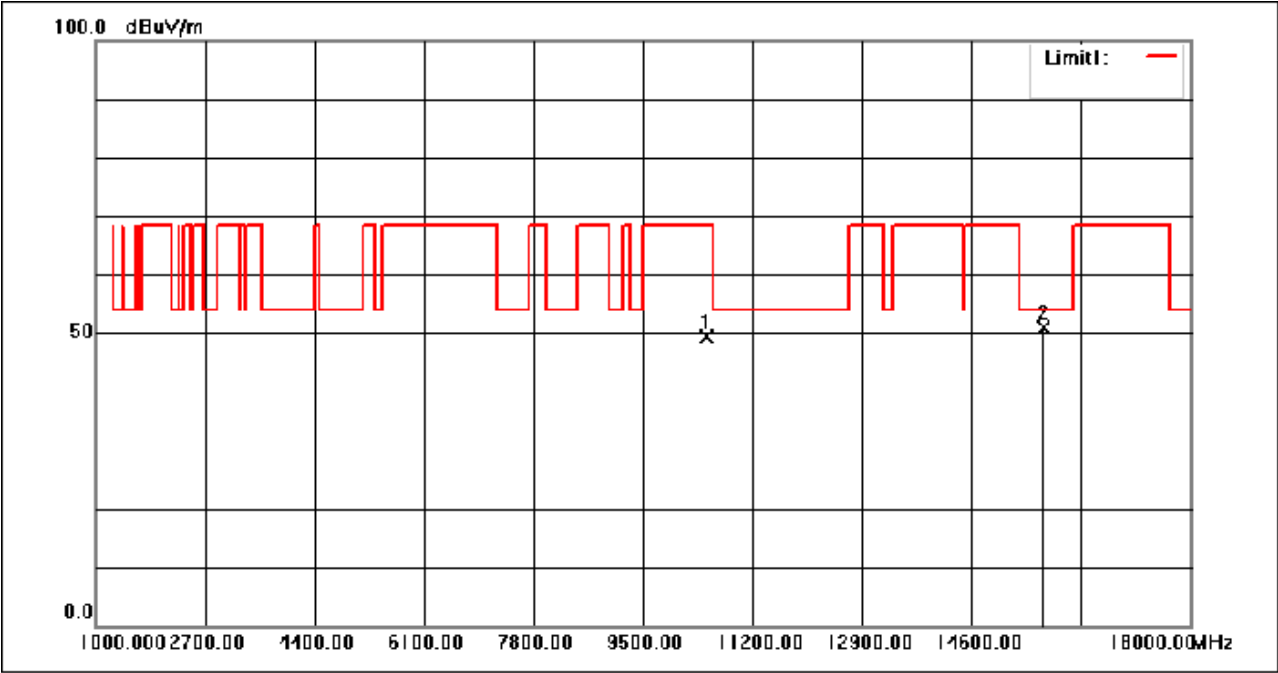
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Compliance Certification Services (Kunshan) Inc.

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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	49.06	0.40	49.46	68.30	-18.84	peak
2	15720.000	44.69	6.10	50.79	54.00	-3.21	peak



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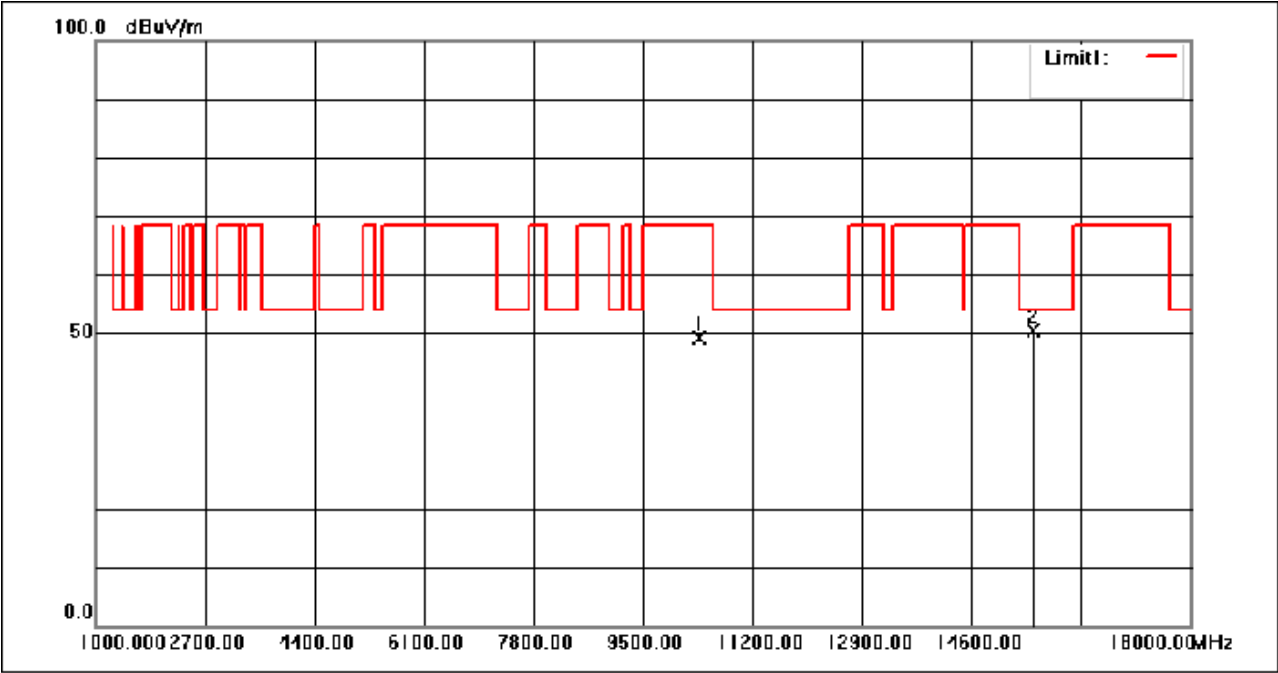
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	48.85	0.20	49.05	68.30	-19.25	peak
2	15570.000	44.58	5.79	50.37	54.00	-3.63	peak



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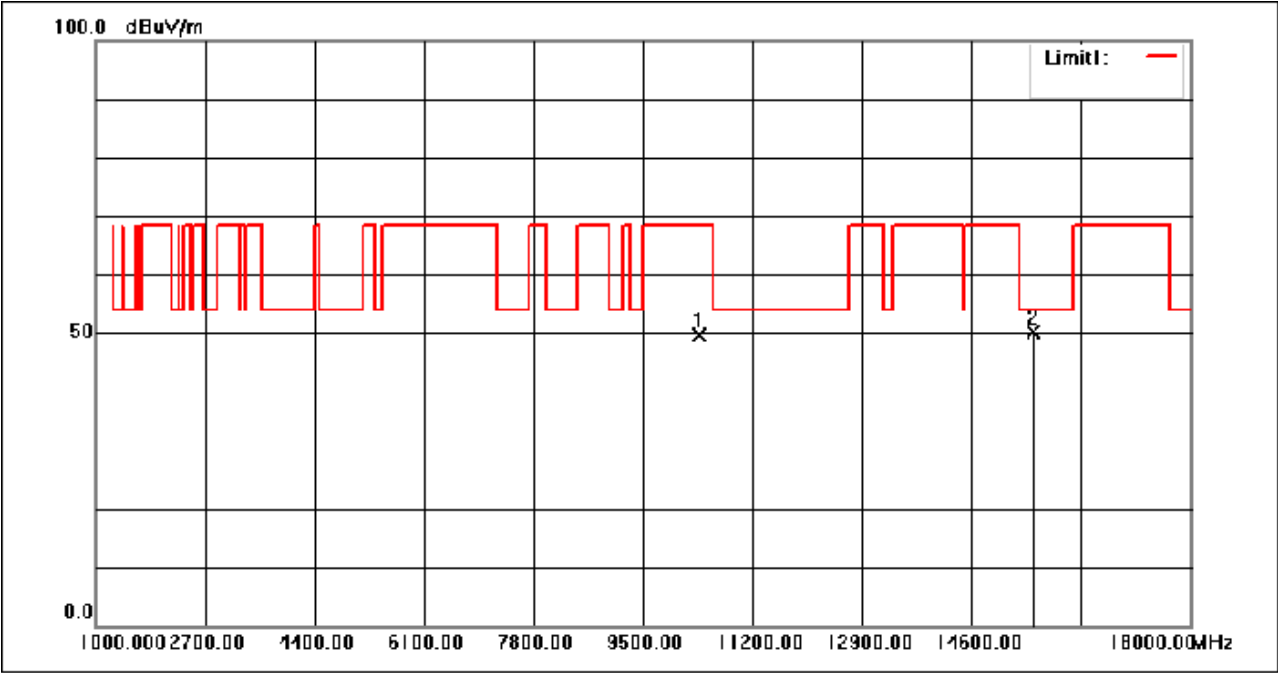
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	49.41	0.20	49.61	68.30	-18.69	peak
2	15570.000	44.30	5.79	50.09	54.00	-3.91	peak



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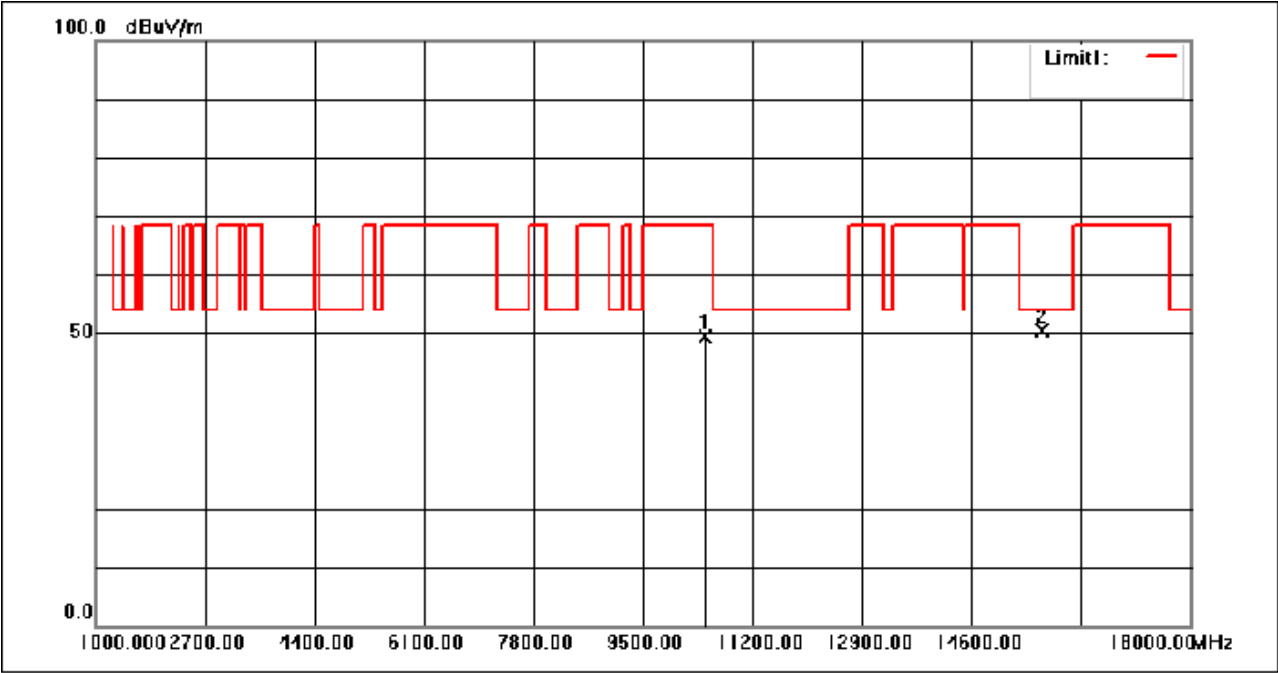
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.92	0.36	49.28	68.30	-19.02	peak
2	15690.000	44.29	6.04	50.33	54.00	-3.67	peak



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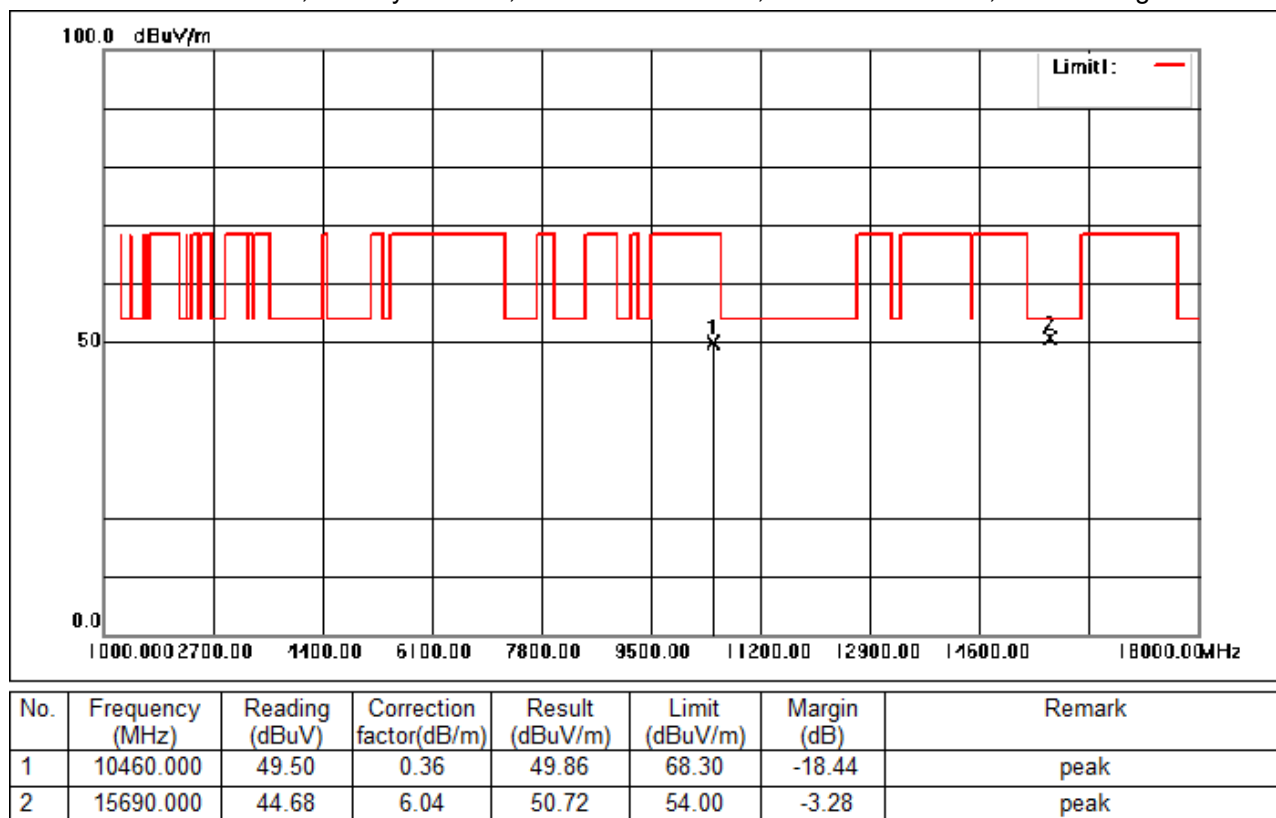
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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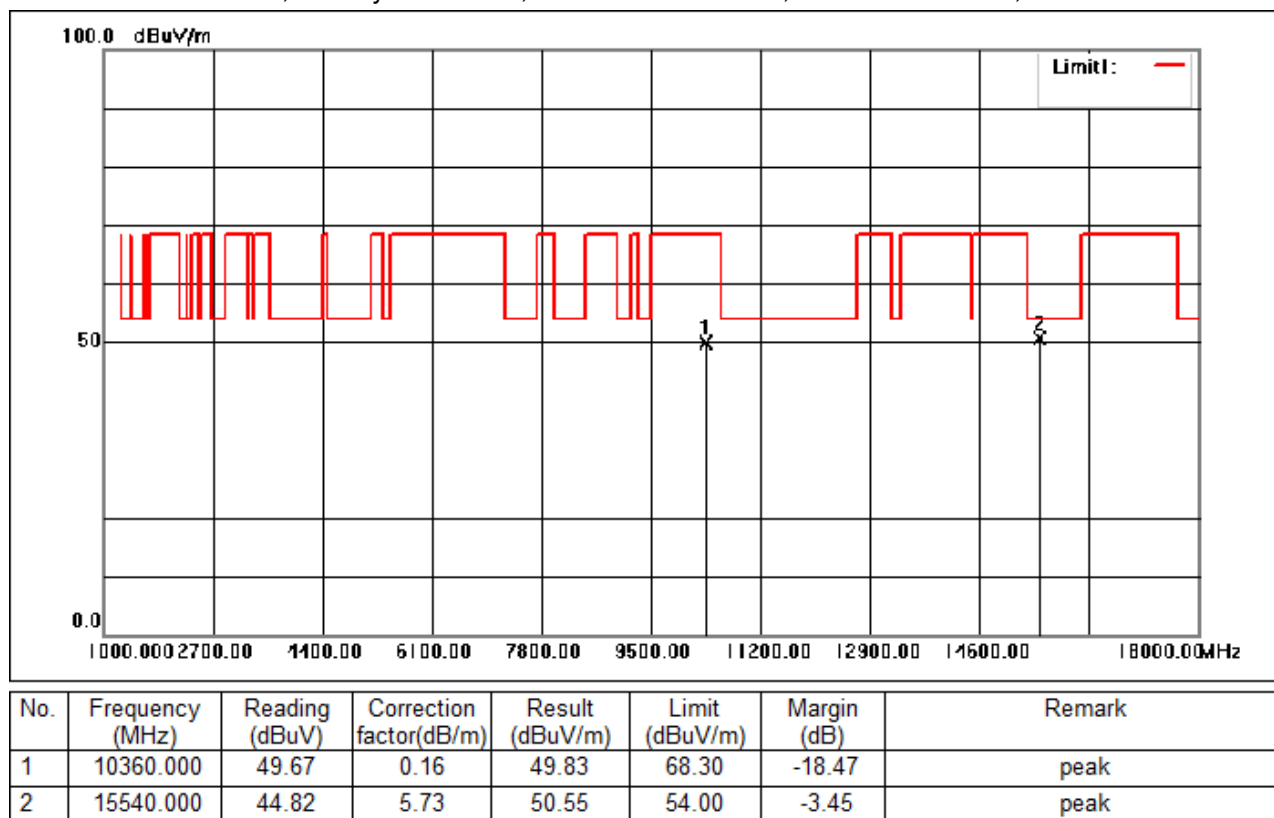
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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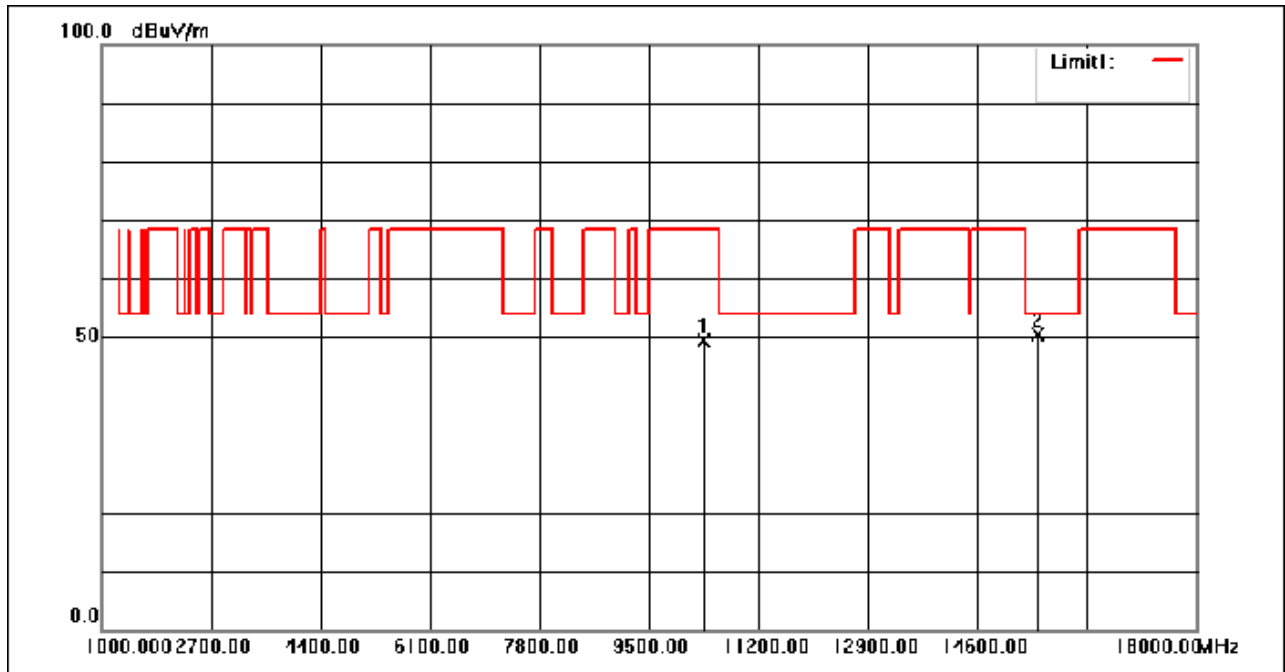
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	49.30	0.16	49.46	68.30	-18.84	peak
2	15540.000	44.56	5.73	50.29	54.00	-3.71	peak



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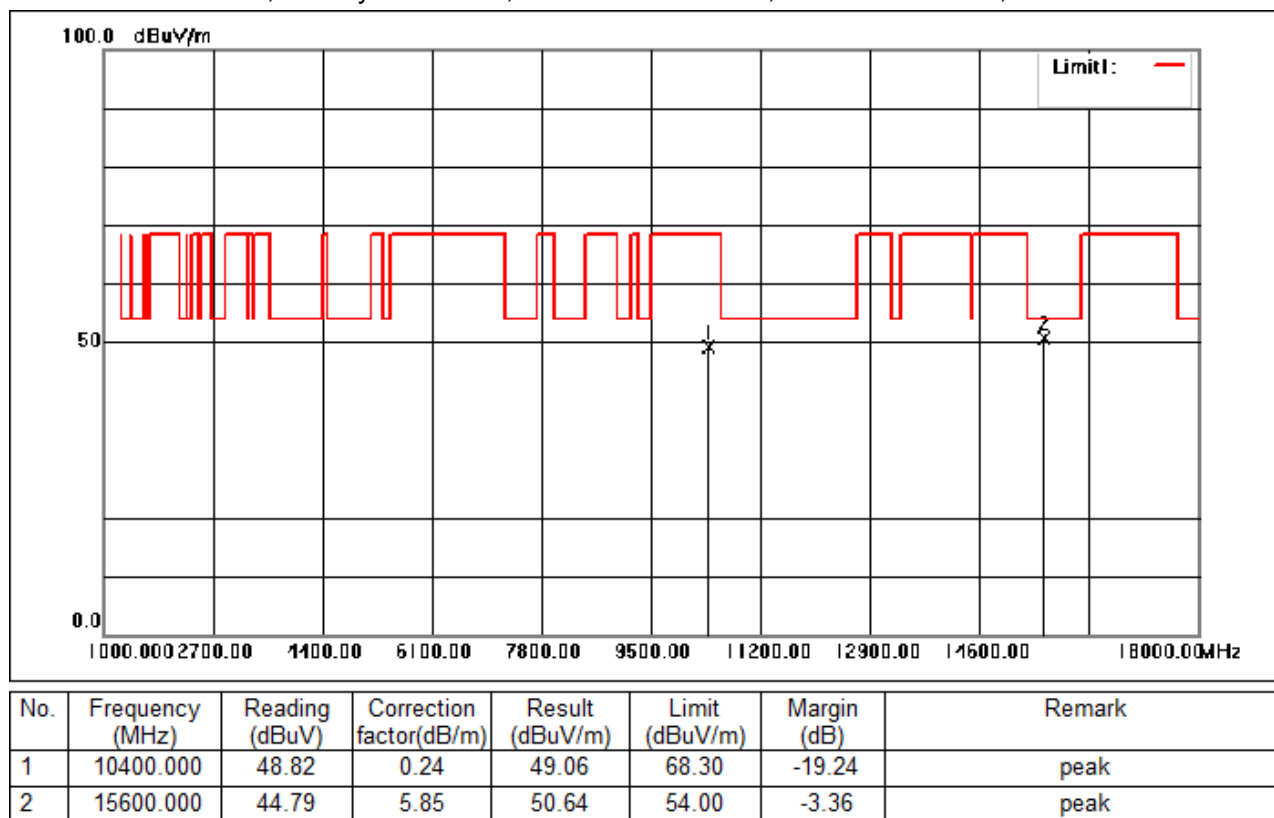
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



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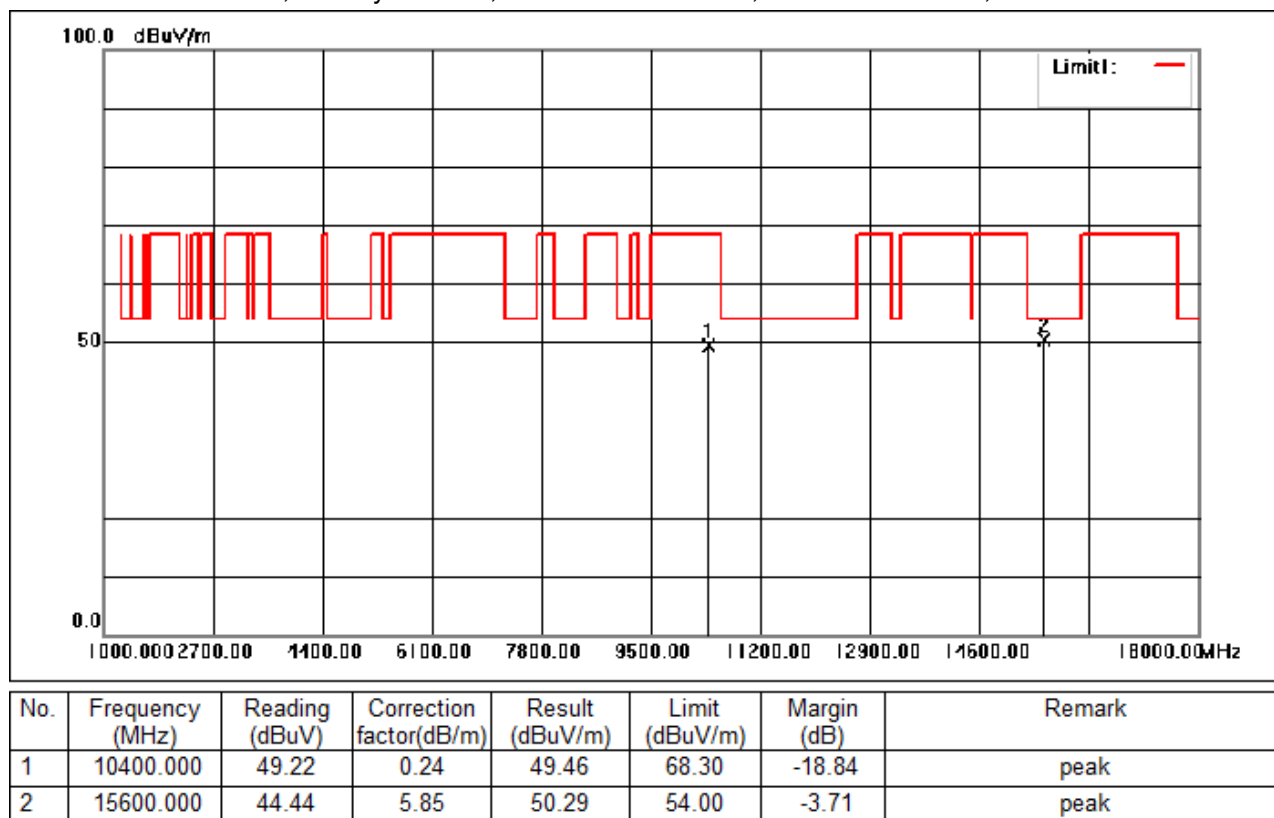
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Compliance Certification Services (Kunshan) Inc.

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



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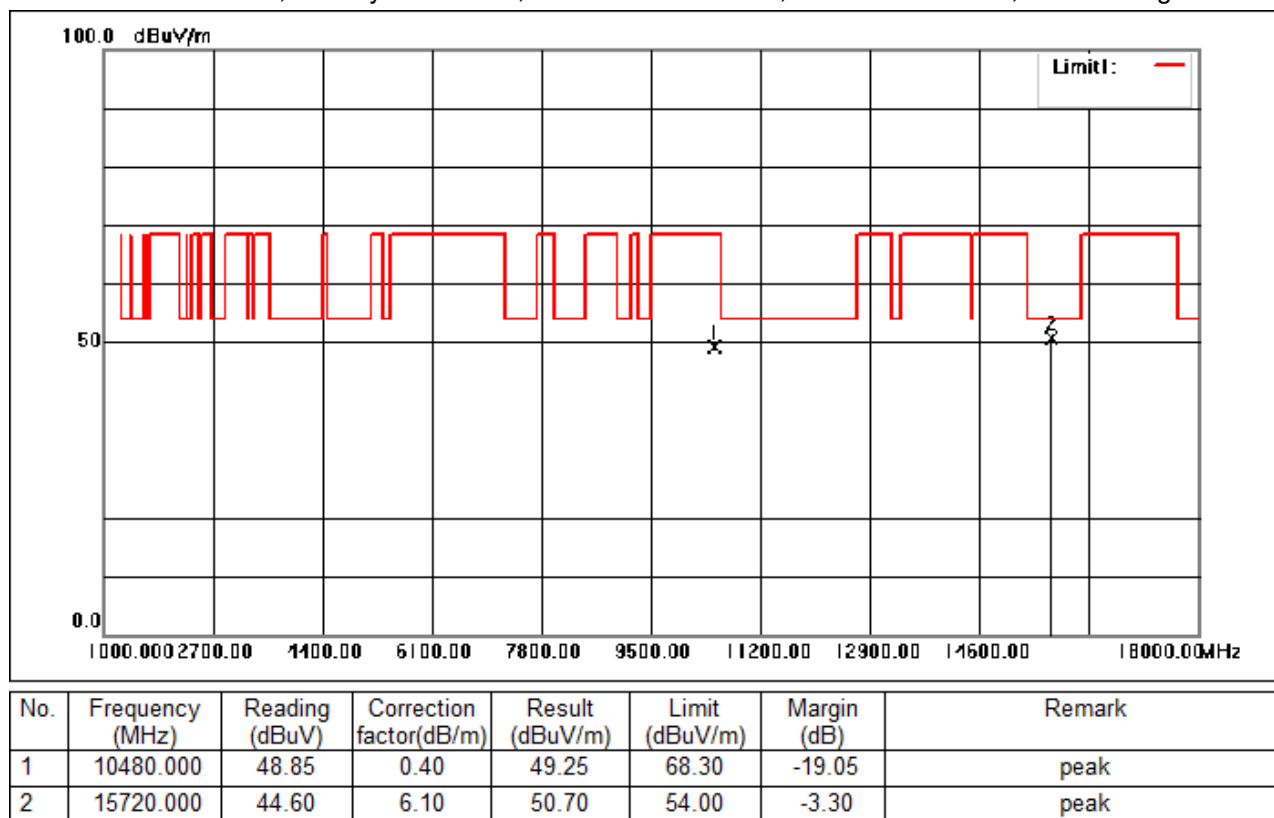
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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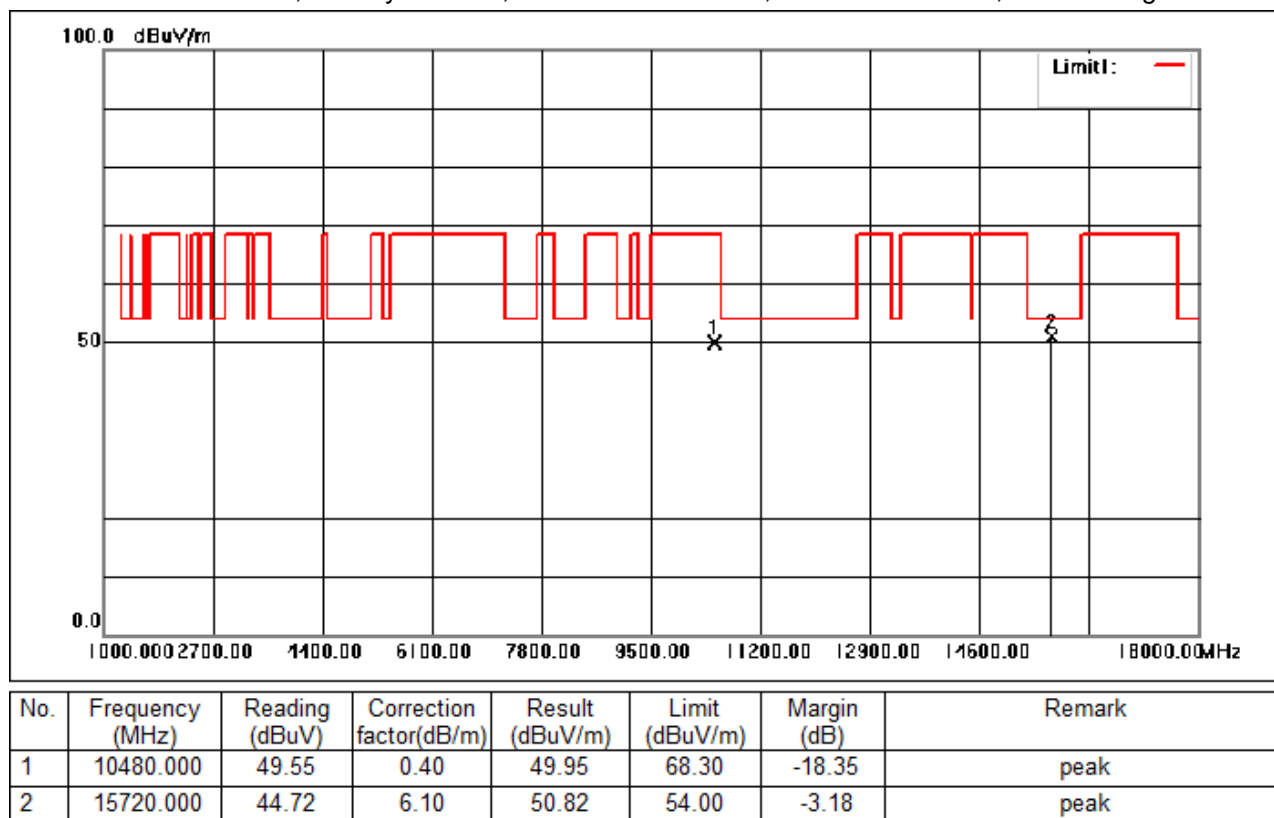
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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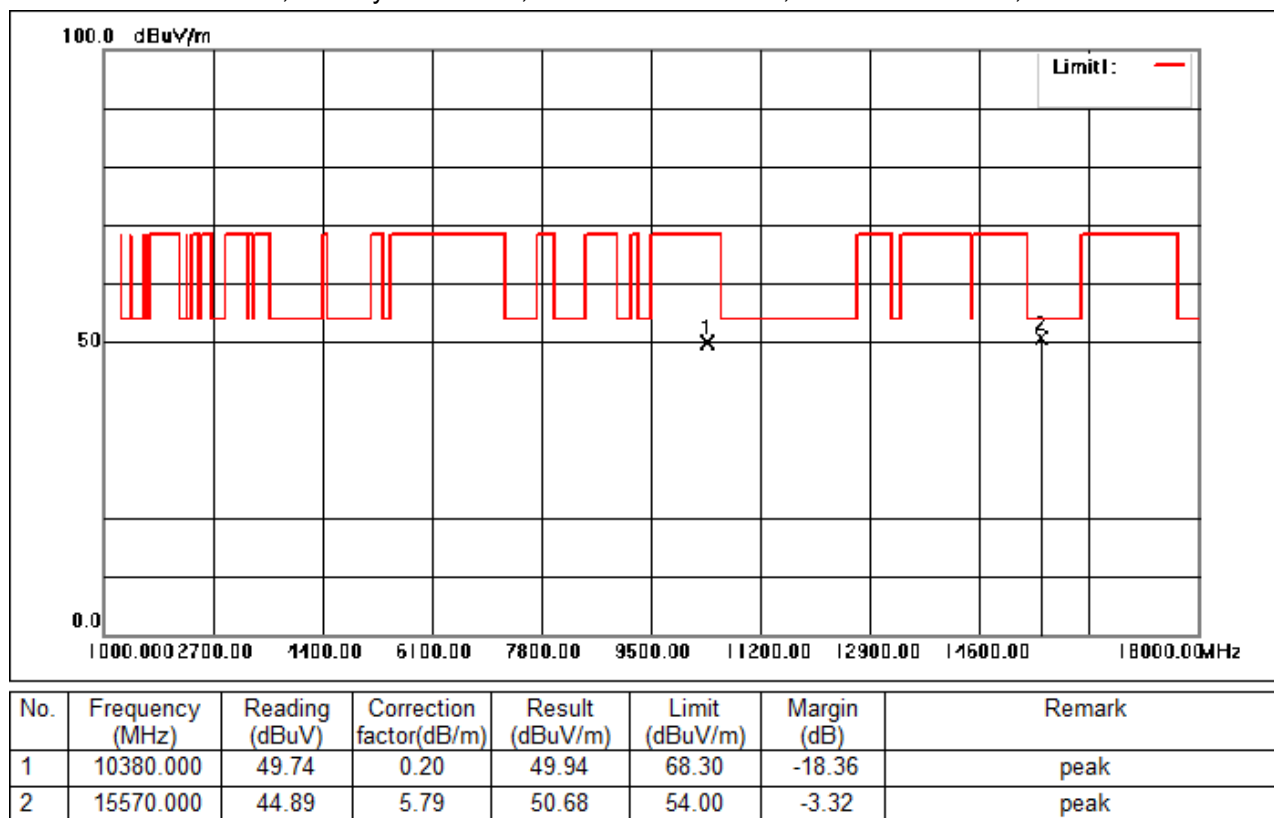
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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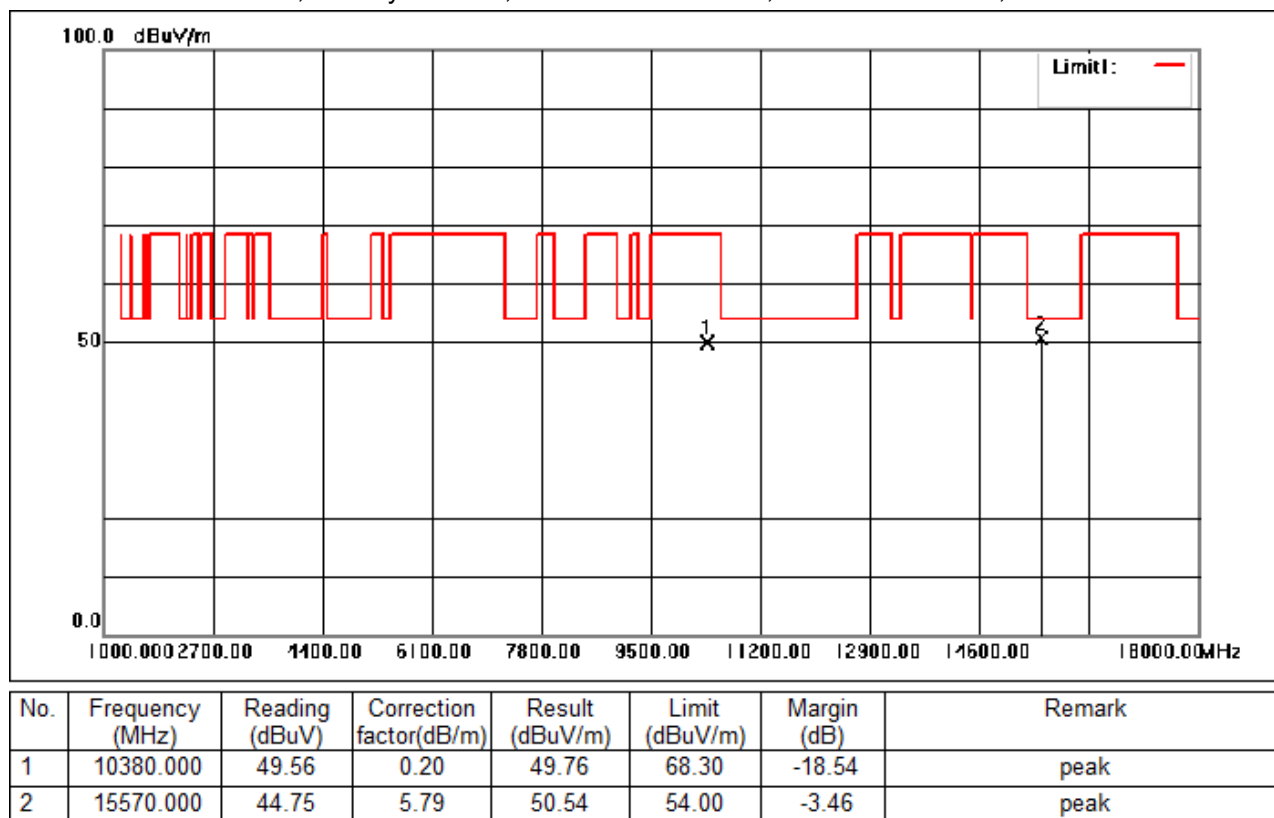
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Compliance Certification Services (Kunshan) Inc.

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



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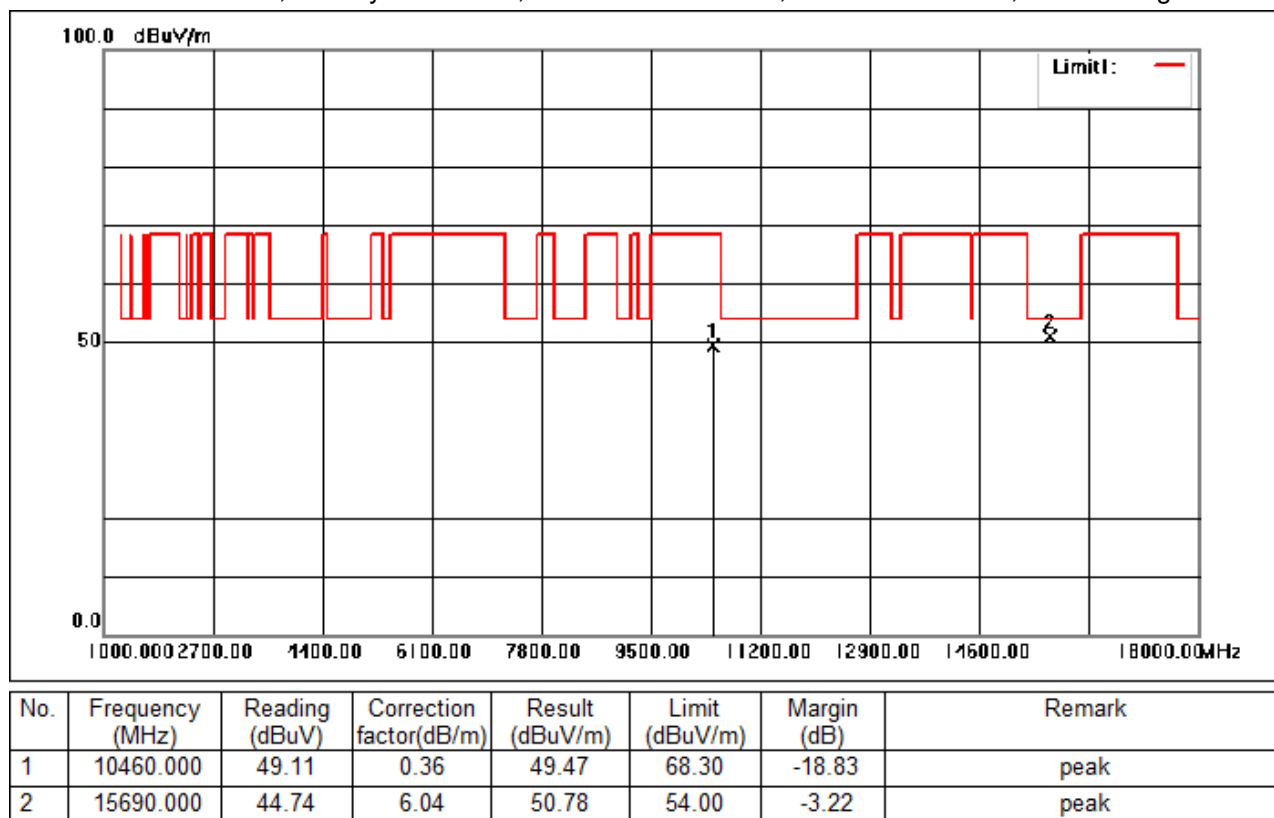
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



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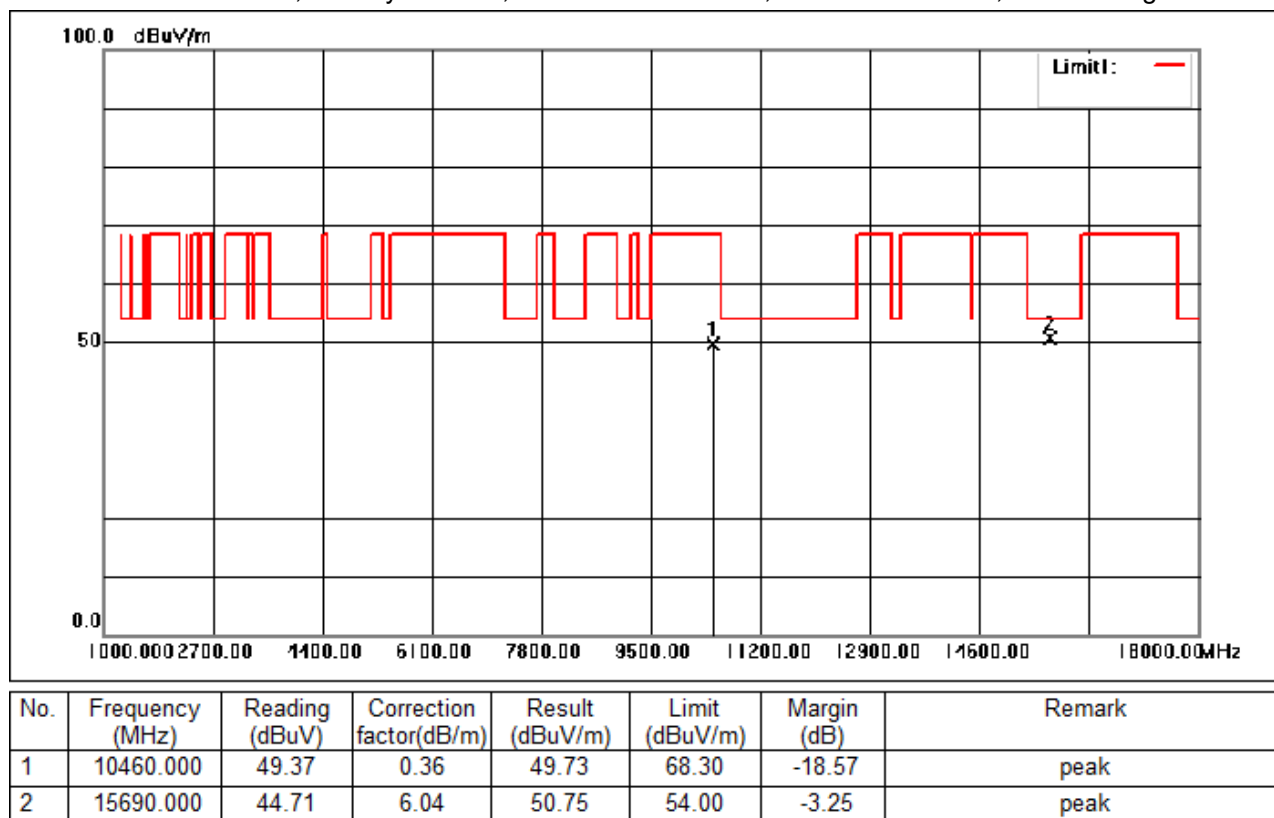
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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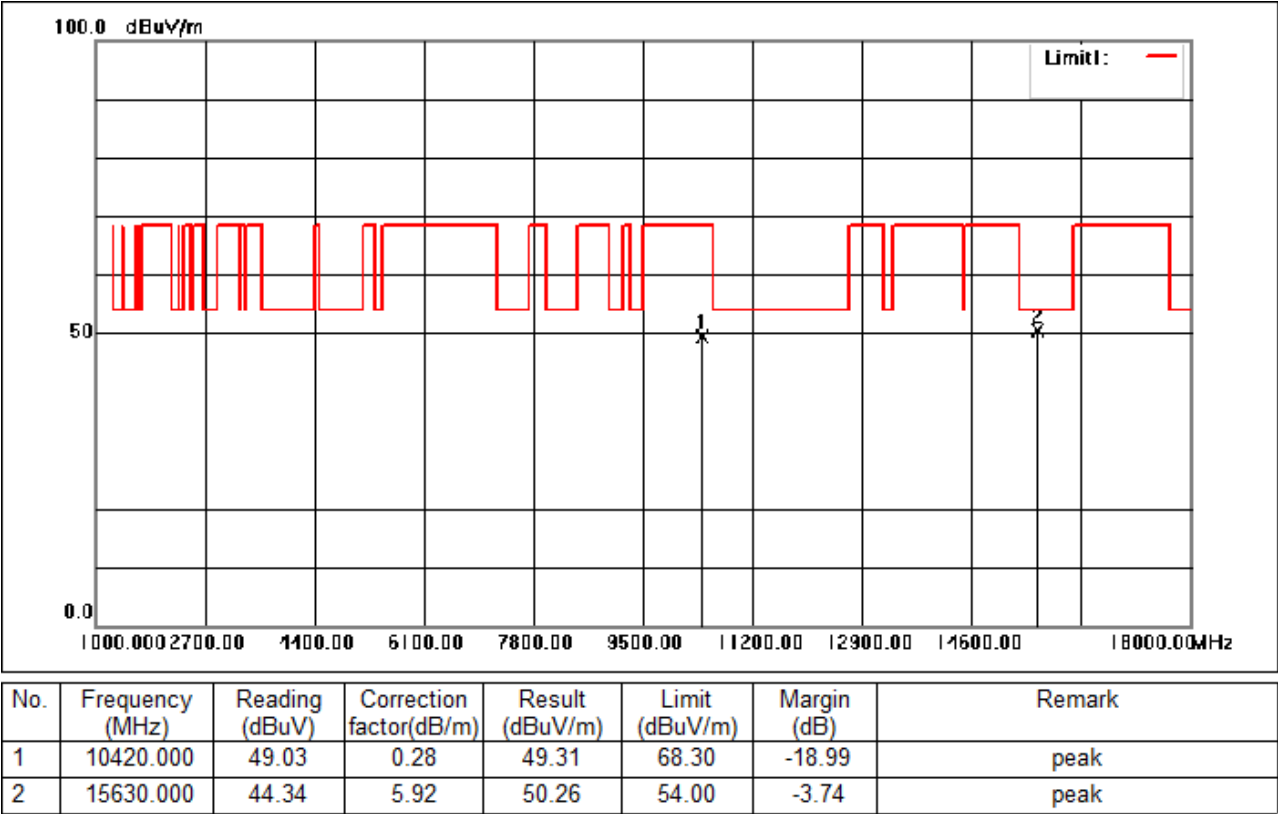
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Compliance Certification Services (Kunshan) Inc.

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



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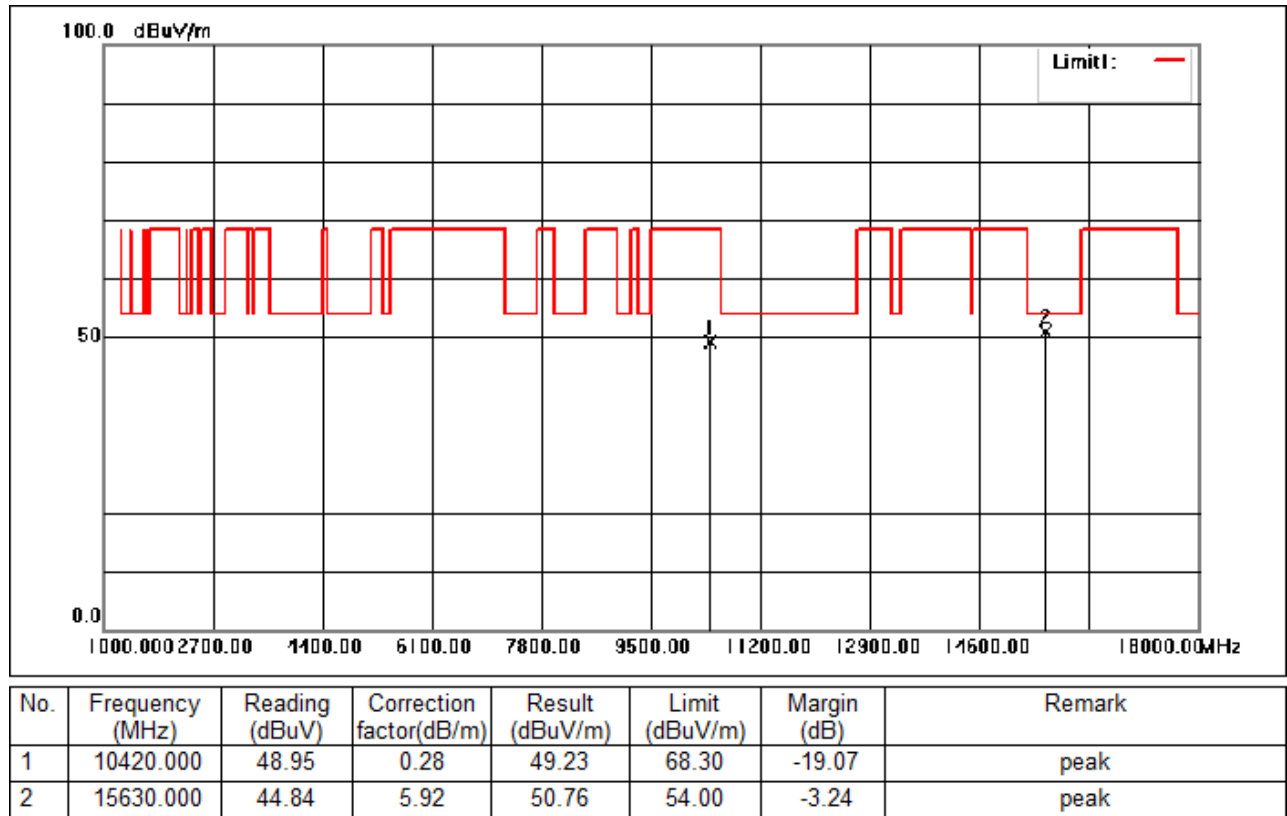
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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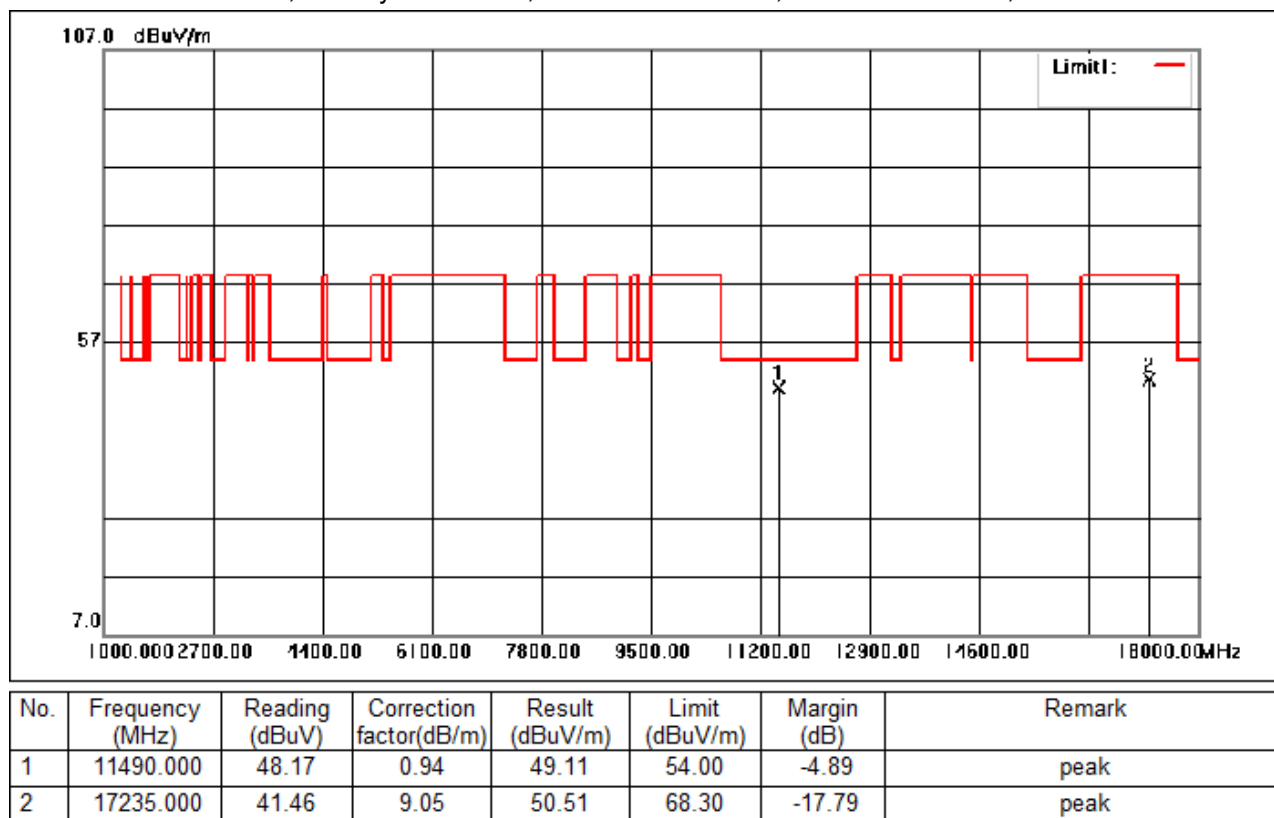
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

Page: 59 of 226

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



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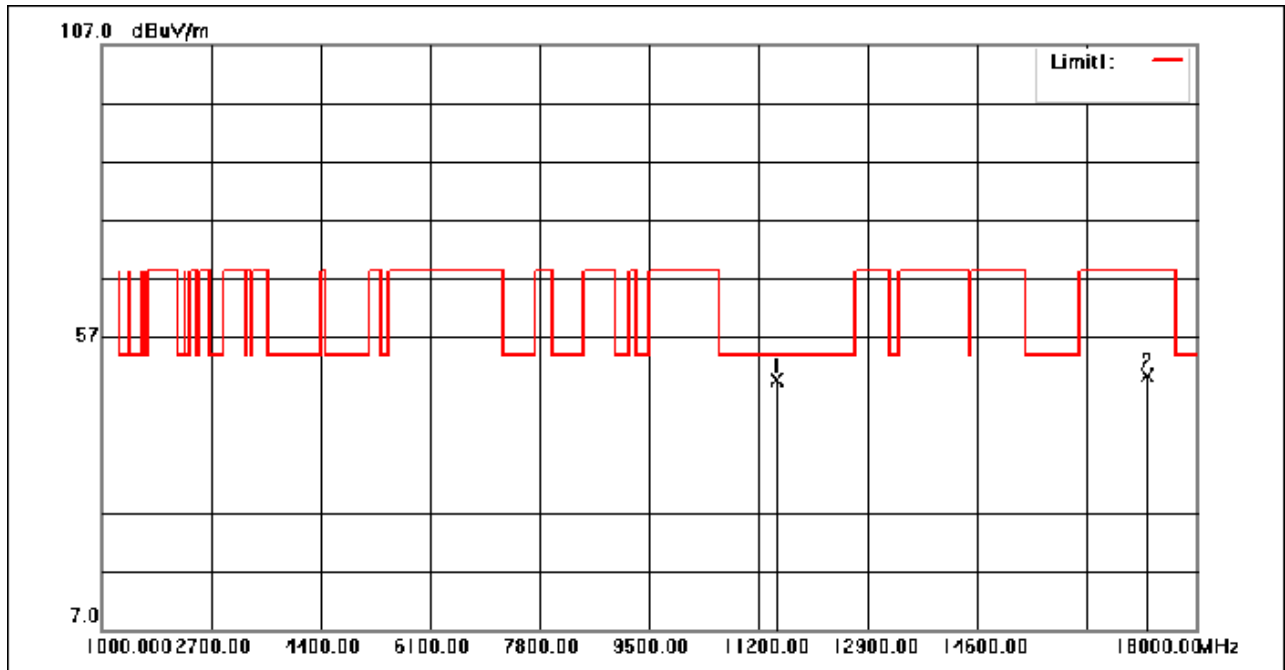
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.64	0.94	49.58	54.00	-4.42	peak
2	17235.000	41.34	9.05	50.39	68.30	-17.91	peak



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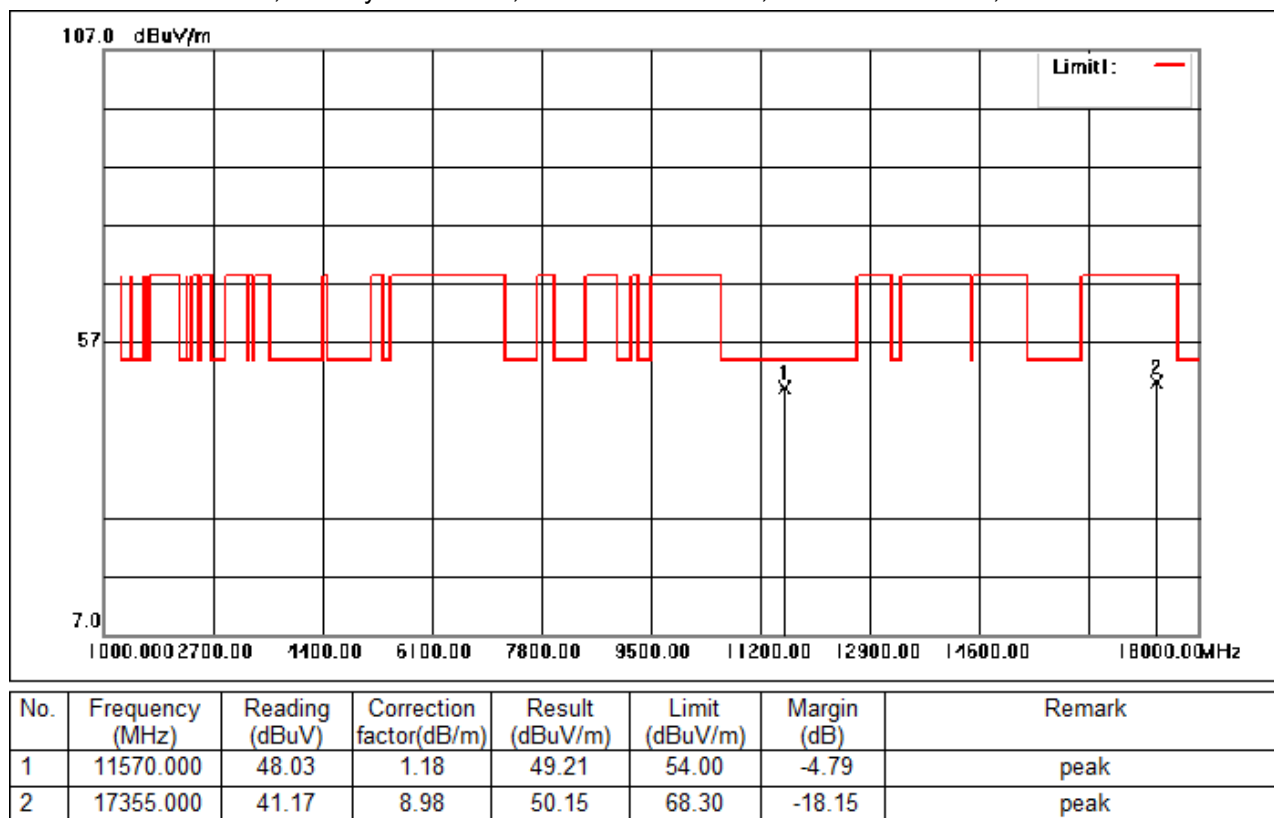
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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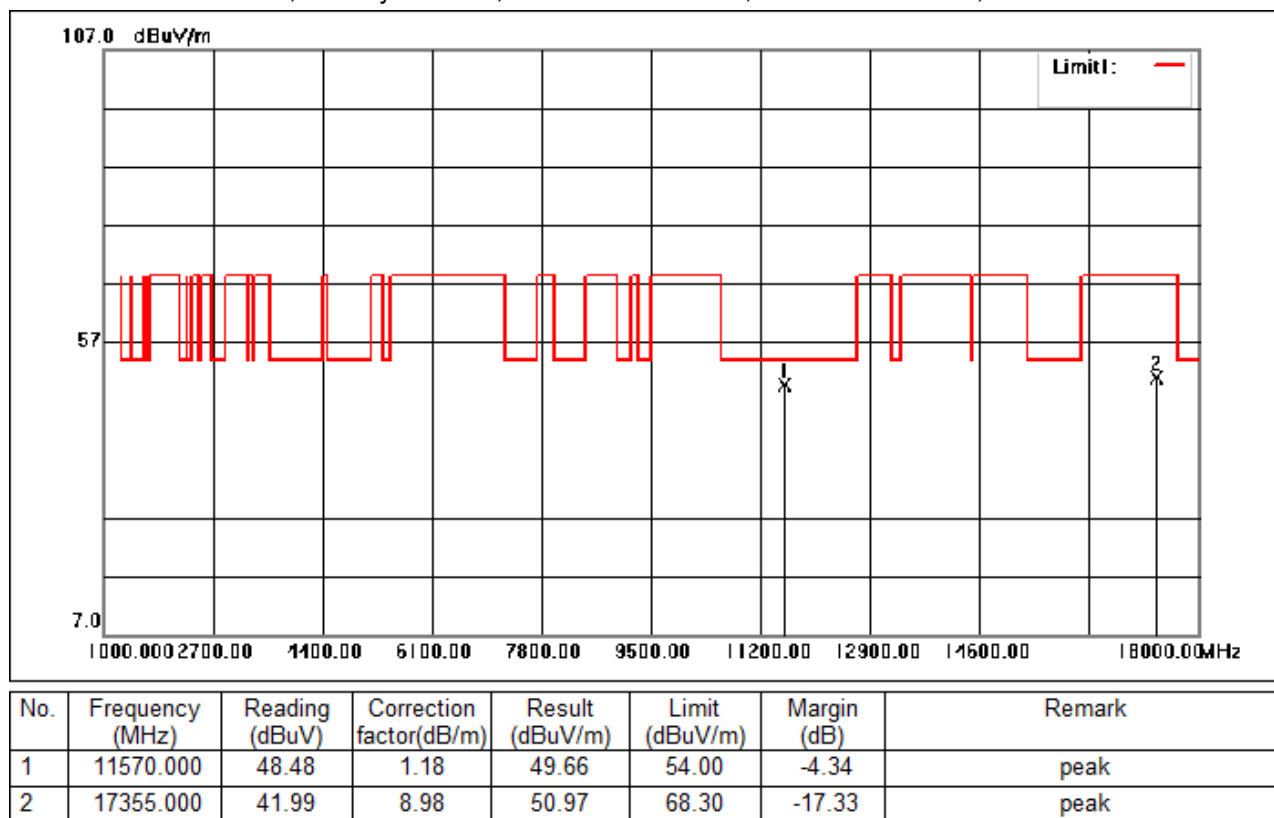
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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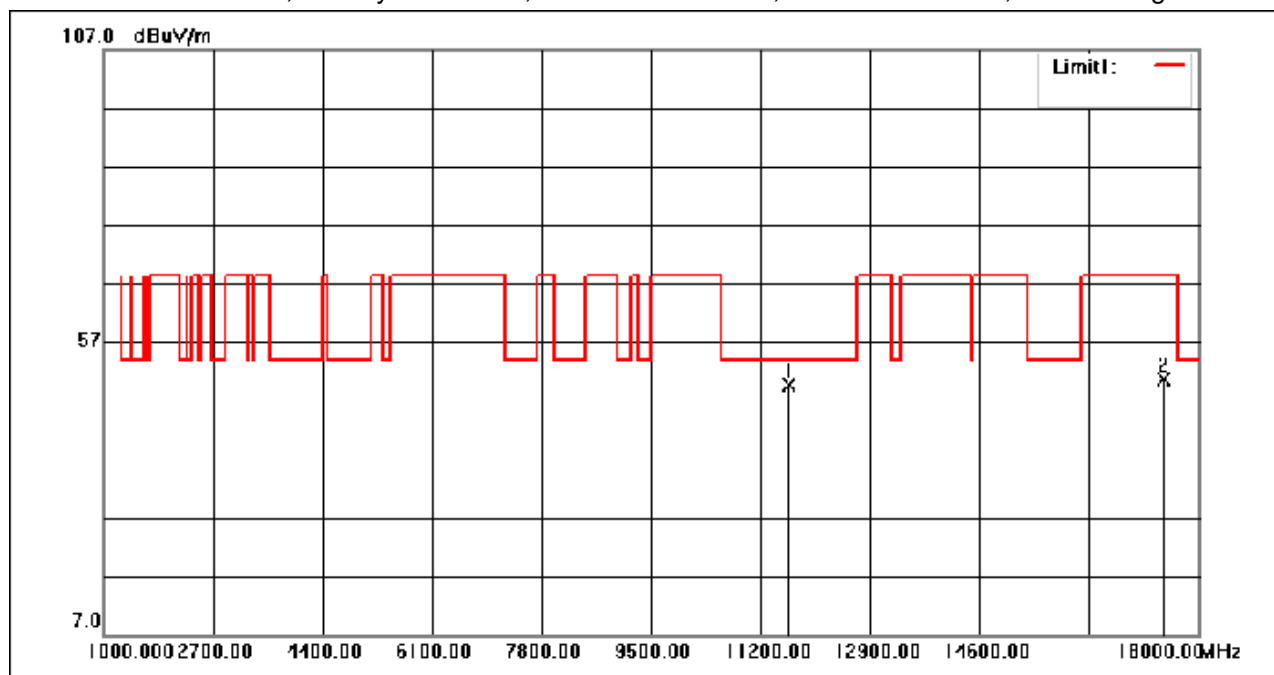
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.24	1.45	49.69	54.00	-4.31	peak
2	17475.000	41.82	8.90	50.72	68.30	-17.58	peak



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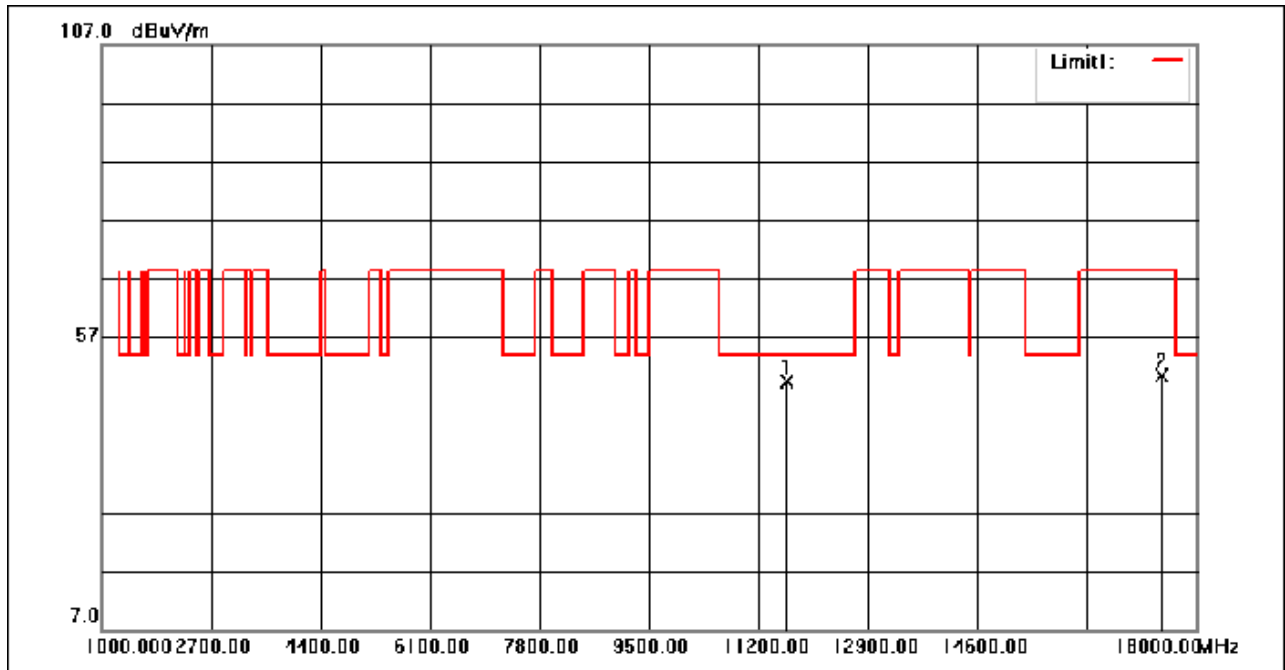
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	47.85	1.45	49.30	54.00	-4.70	peak
2	17475.000	41.39	8.90	50.29	68.30	-18.01	peak



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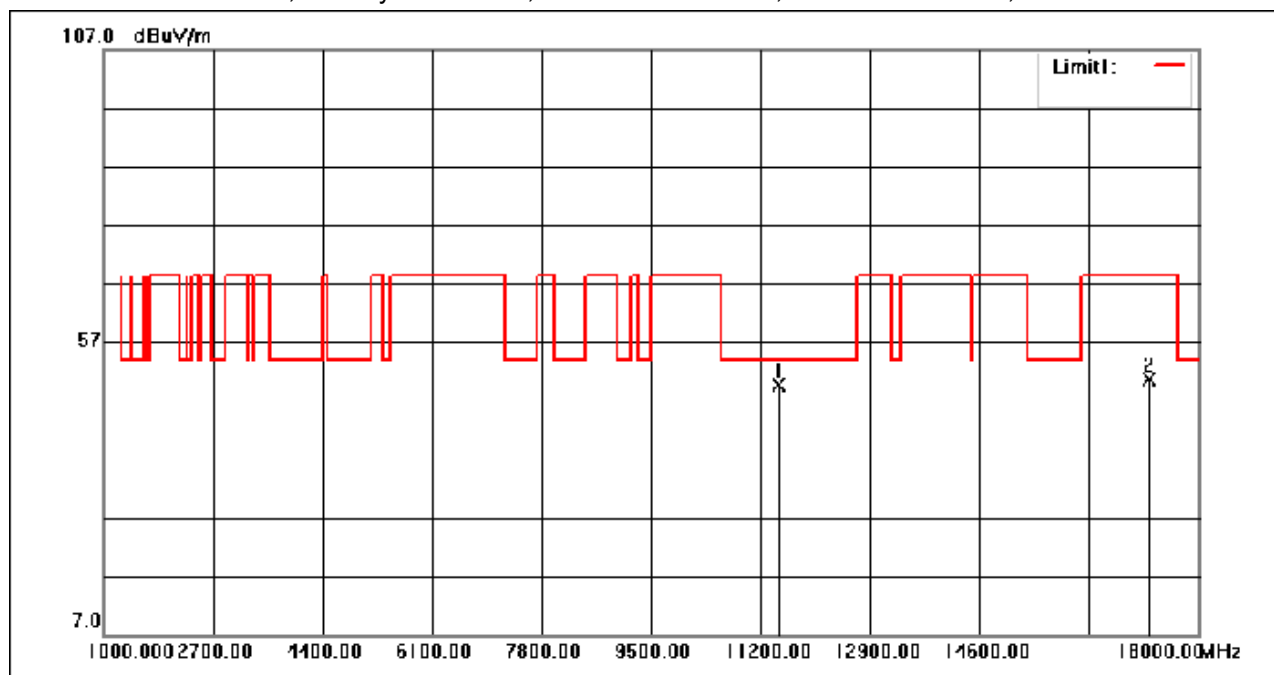
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

Page: 65 of 226

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	48.58	0.94	49.52	54.00	-4.48	peak
2	17235.000	41.70	9.05	50.75	68.30	-17.55	peak



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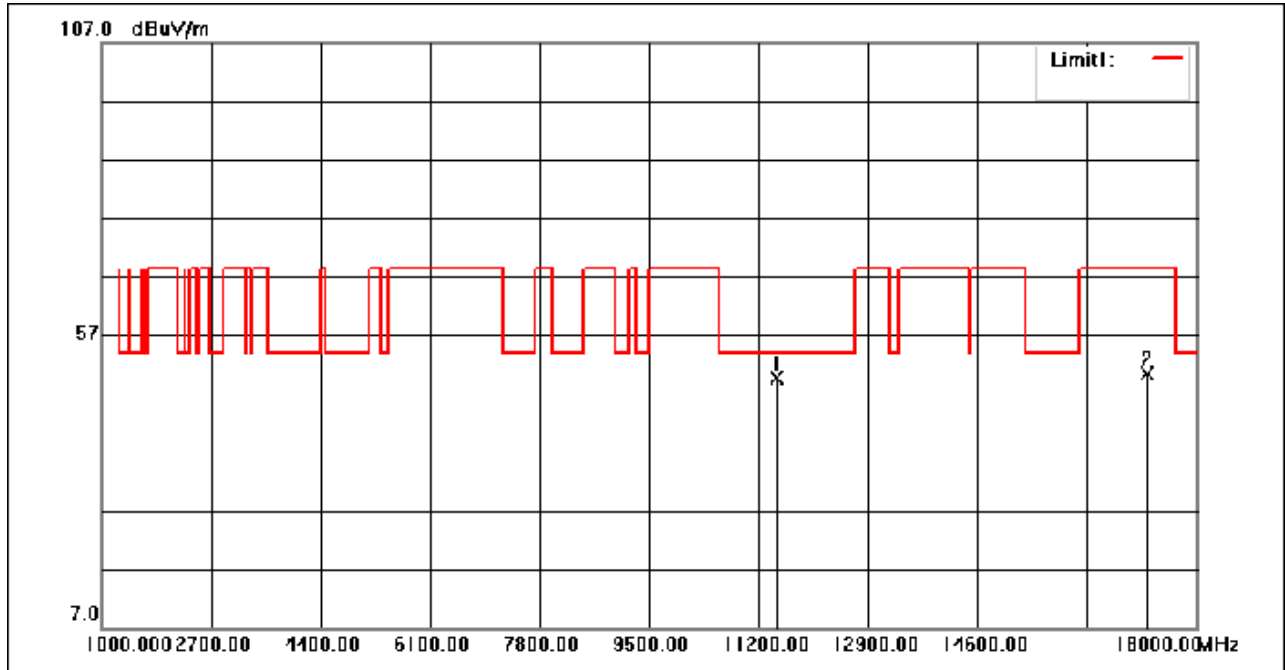
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

Page: 66 of 226

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	48.68	0.94	49.62	54.00	-4.38	peak
2	17235.000	41.43	9.05	50.48	68.30	-17.82	peak



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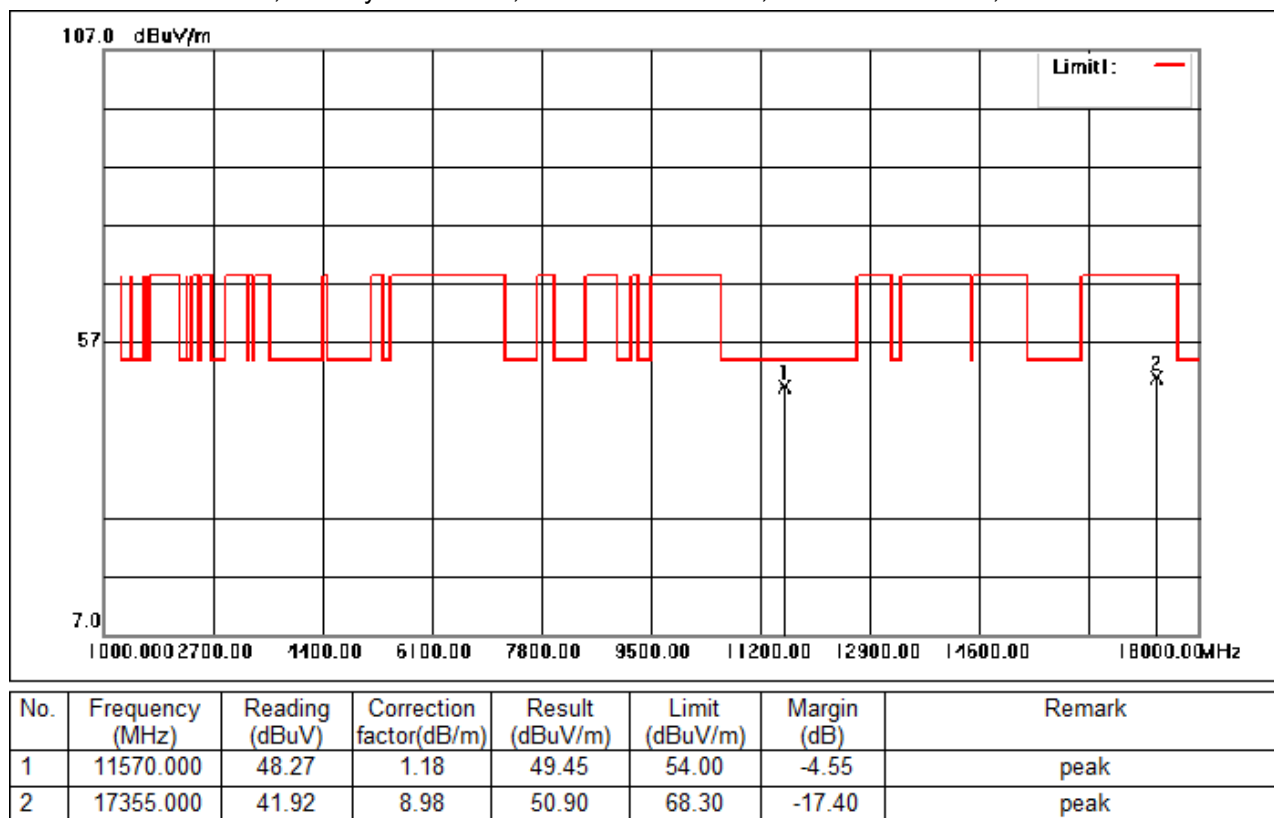
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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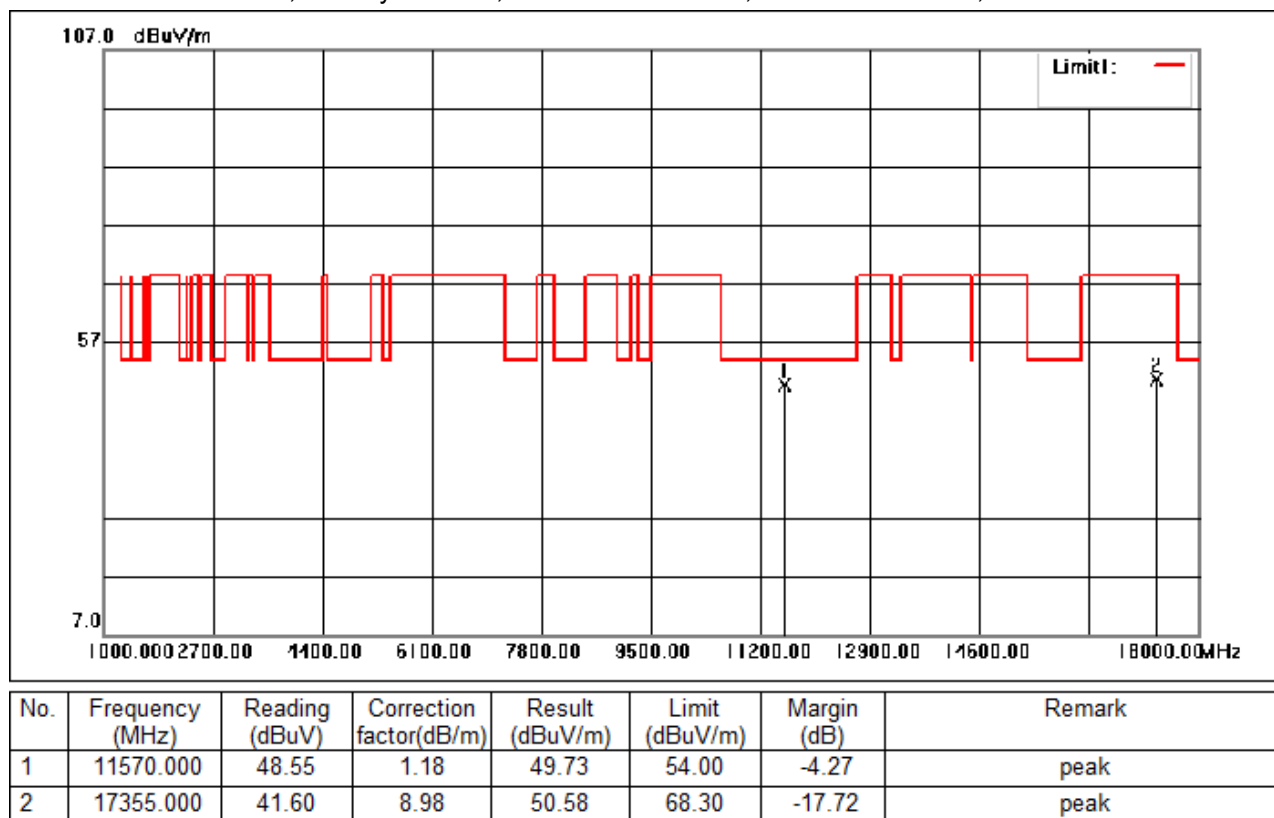
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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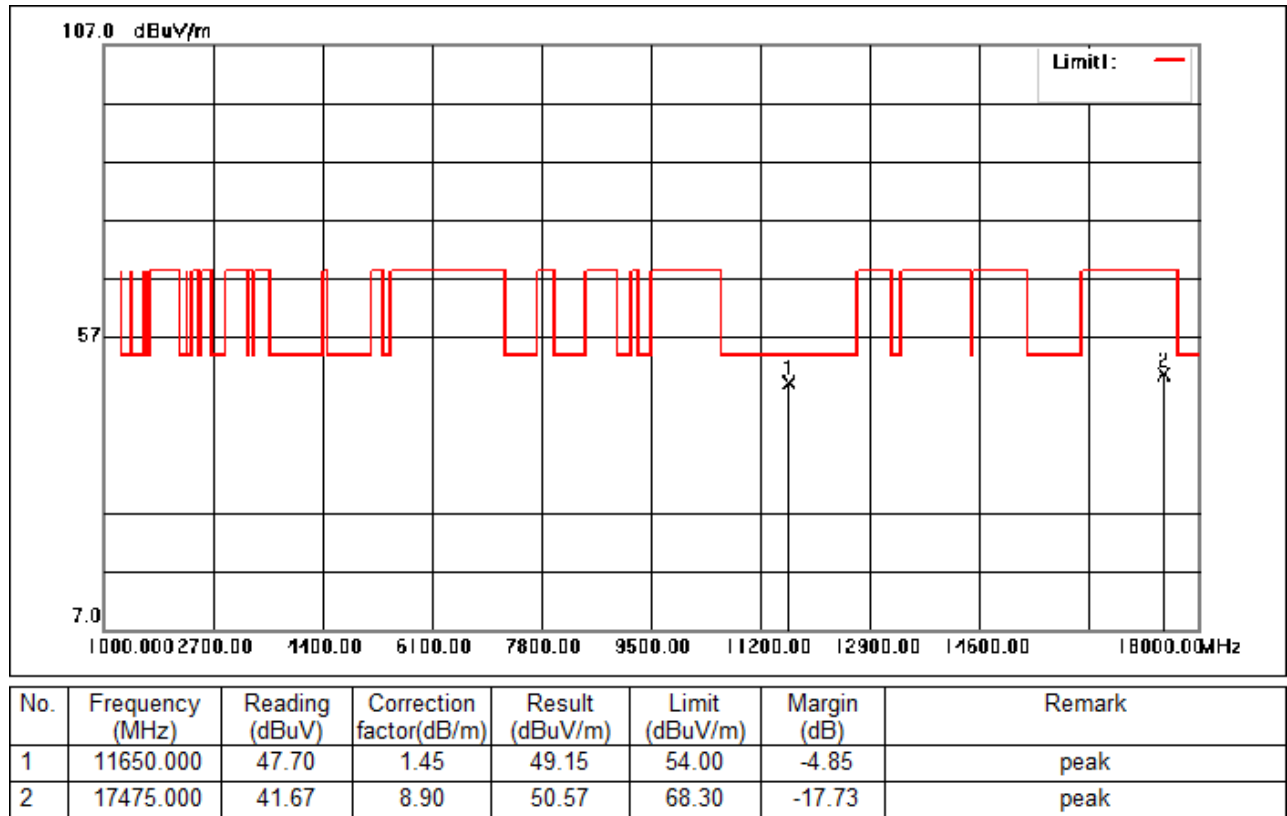
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

Page: 69 of 226

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



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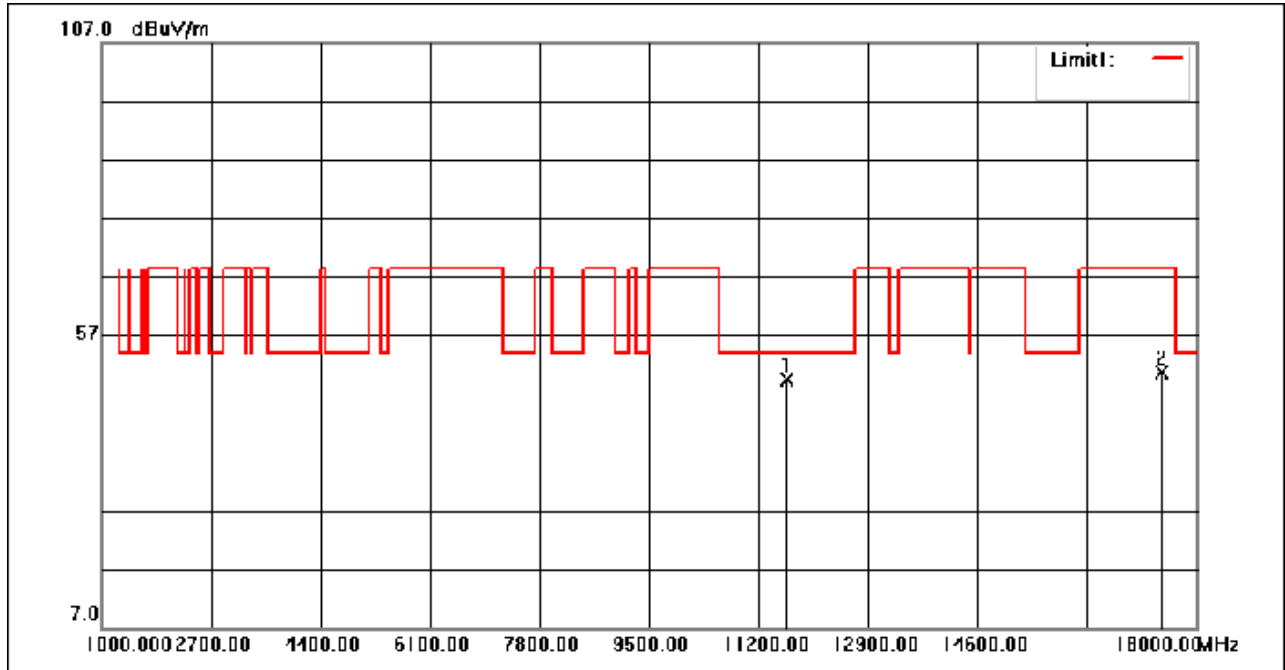
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.04	1.45	49.49	54.00	-4.51	peak
2	17475.000	41.81	8.90	50.71	68.30	-17.59	peak



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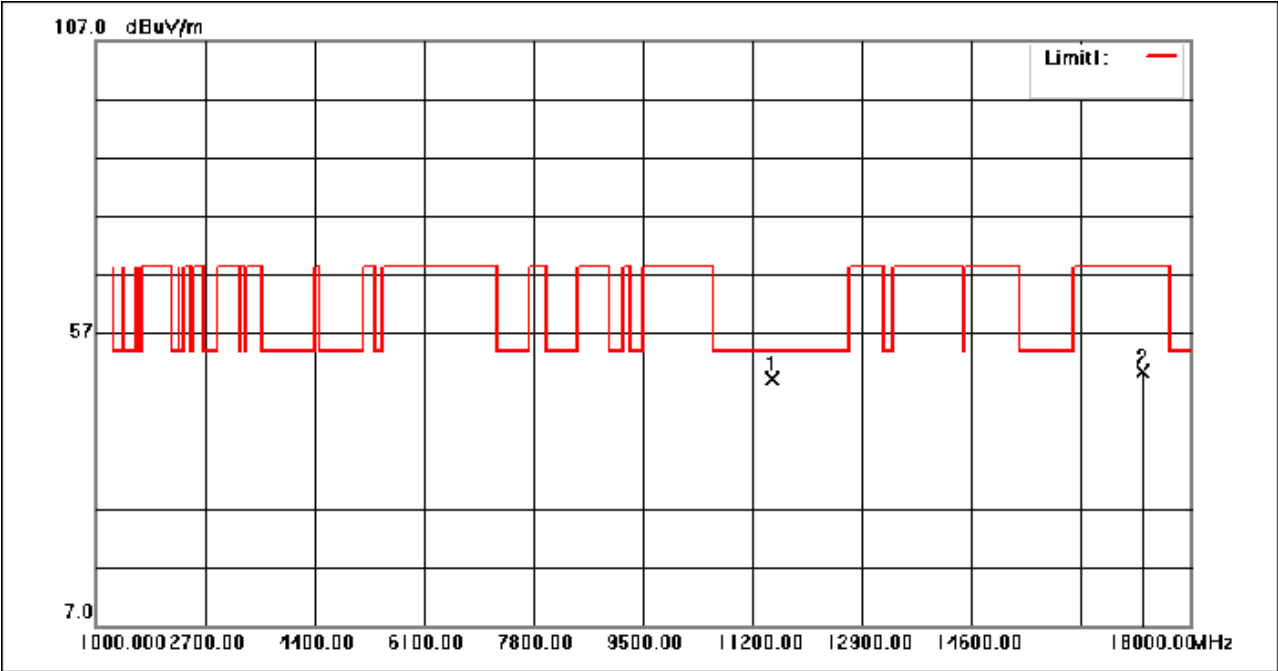
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.22	0.99	49.21	54.00	-4.79	peak
2	17265.000	41.36	9.03	50.39	68.30	-17.91	peak



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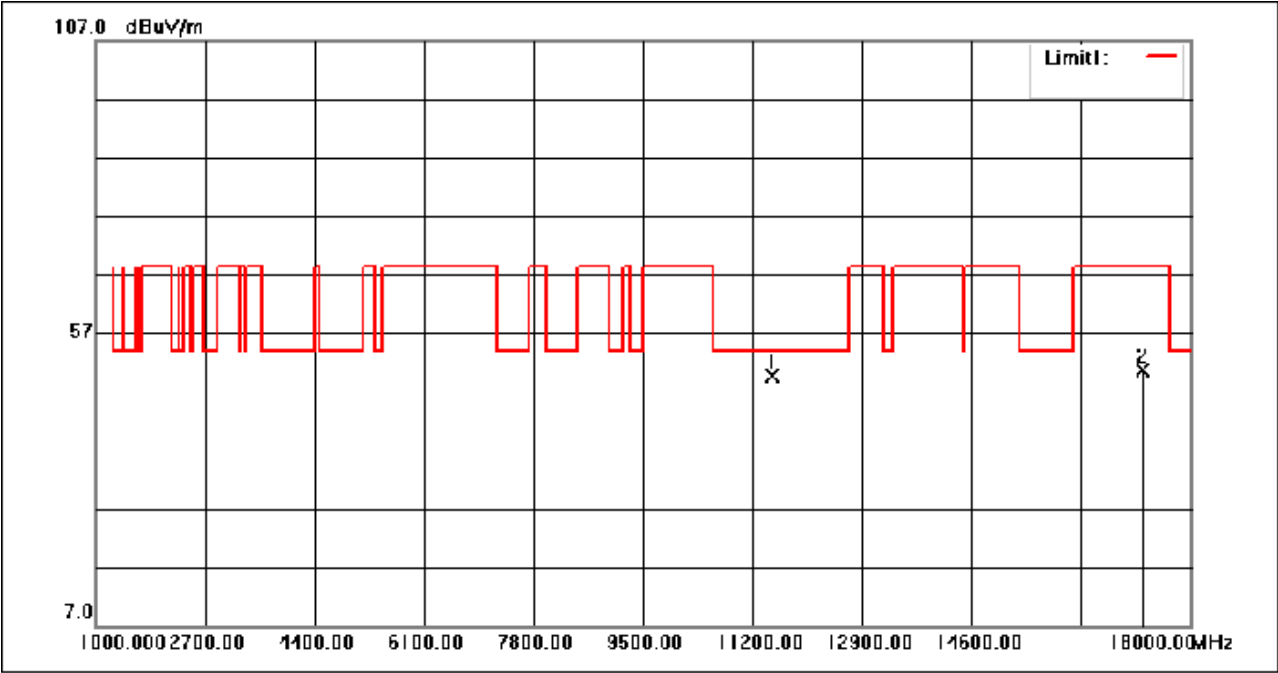
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.65	0.99	49.64	54.00	-4.36	peak
2	17265.000	41.64	9.03	50.67	68.30	-17.63	peak



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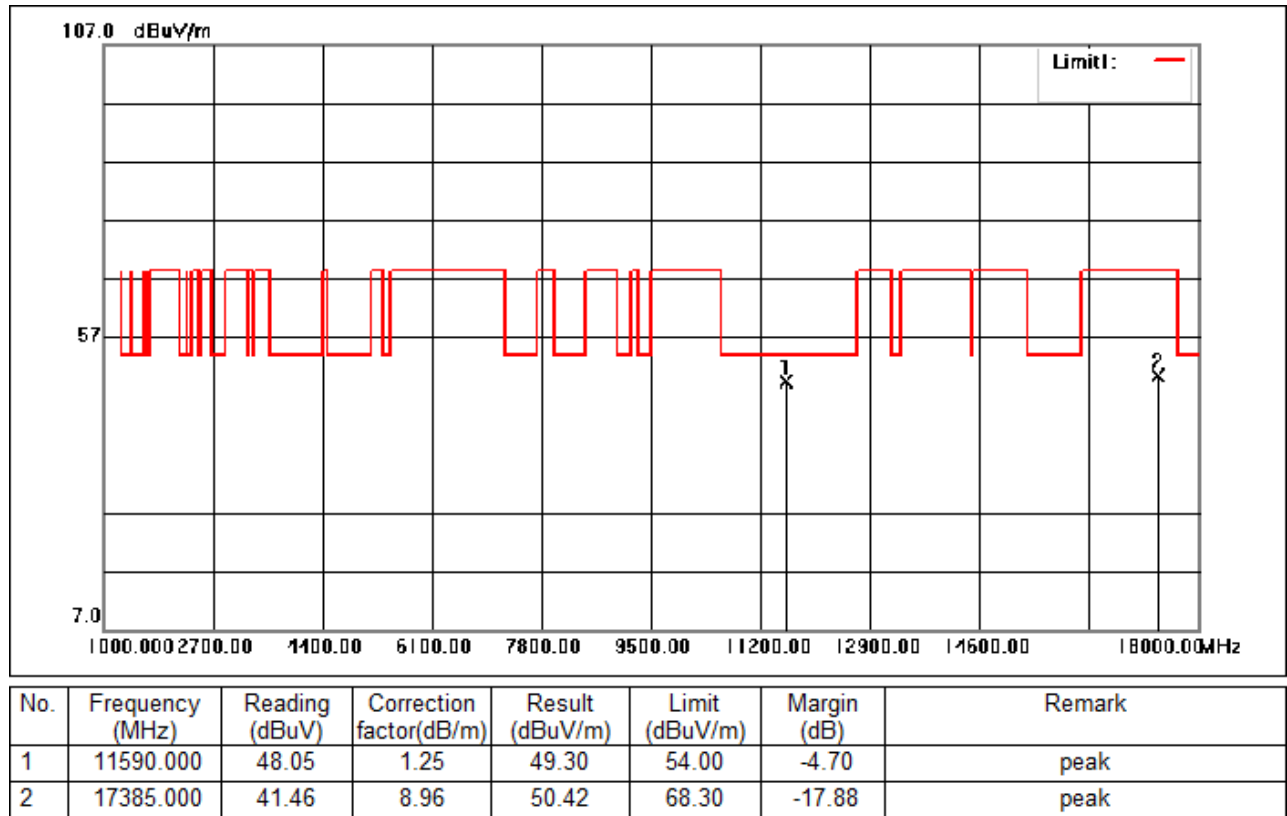
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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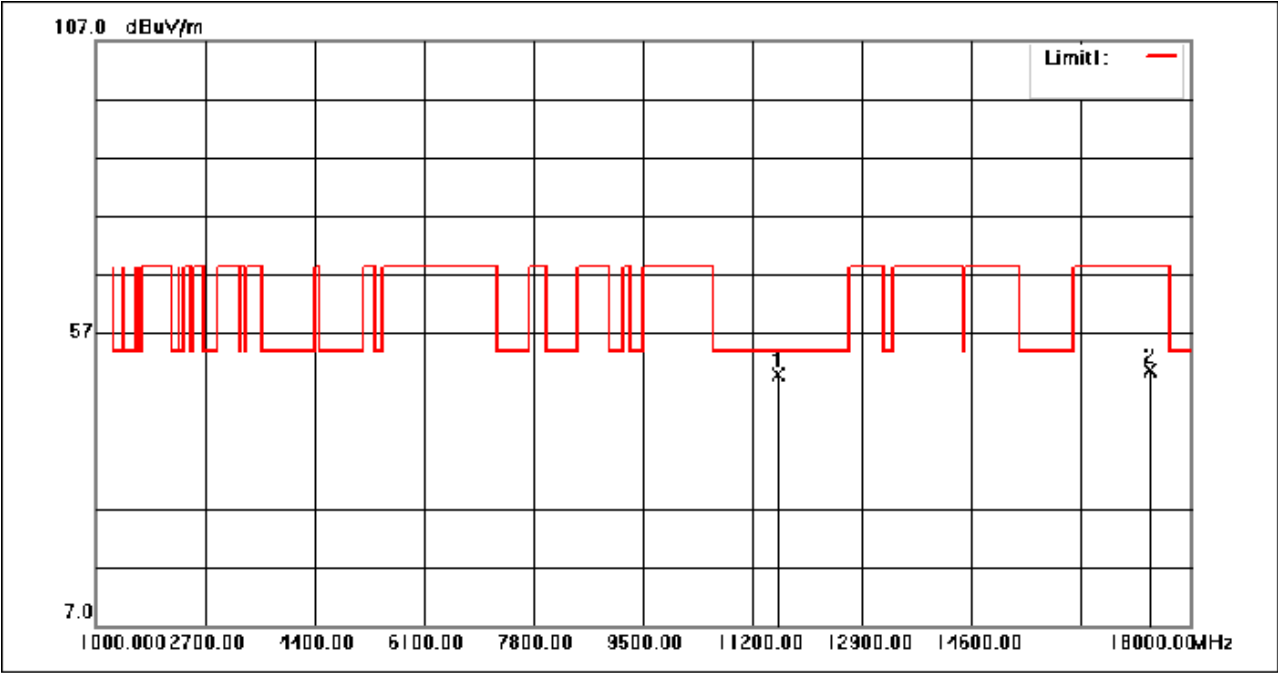
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.70	1.25	49.95	54.00	-4.05	peak
2	17385.000	41.56	8.96	50.52	68.30	-17.78	peak



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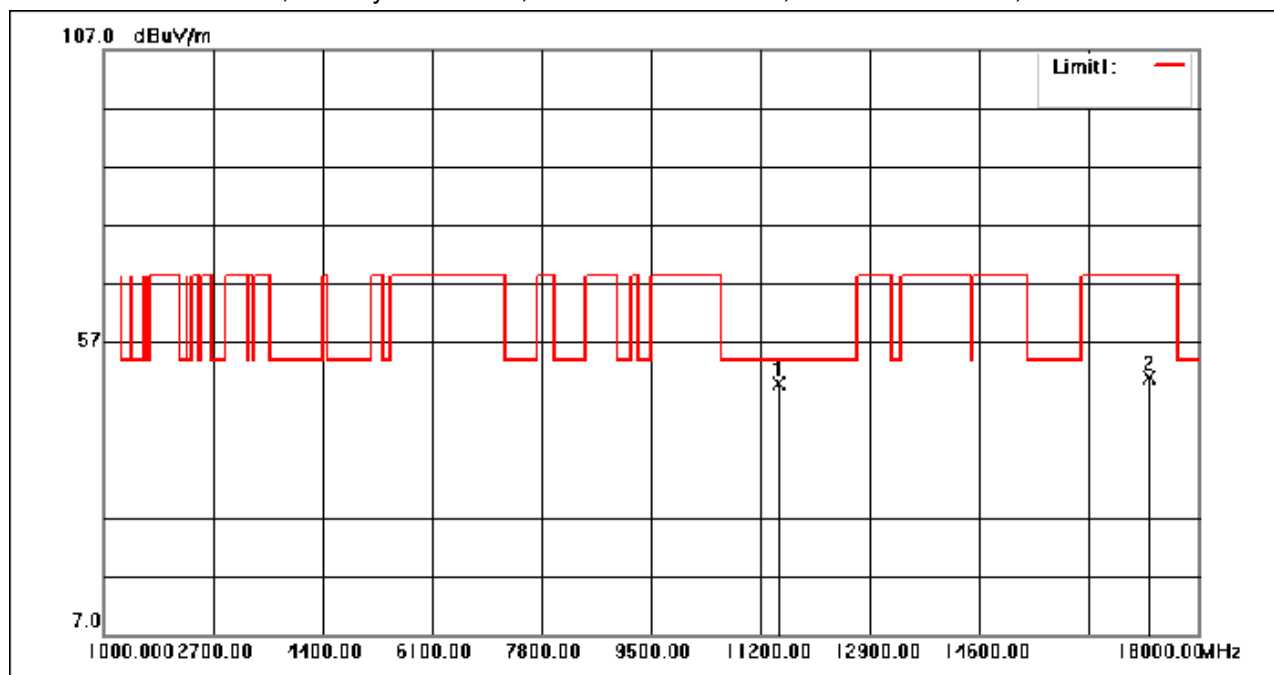
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.88	0.94	49.82	54.00	-4.18	peak
2	17235.000	41.90	9.05	50.95	68.30	-17.35	peak



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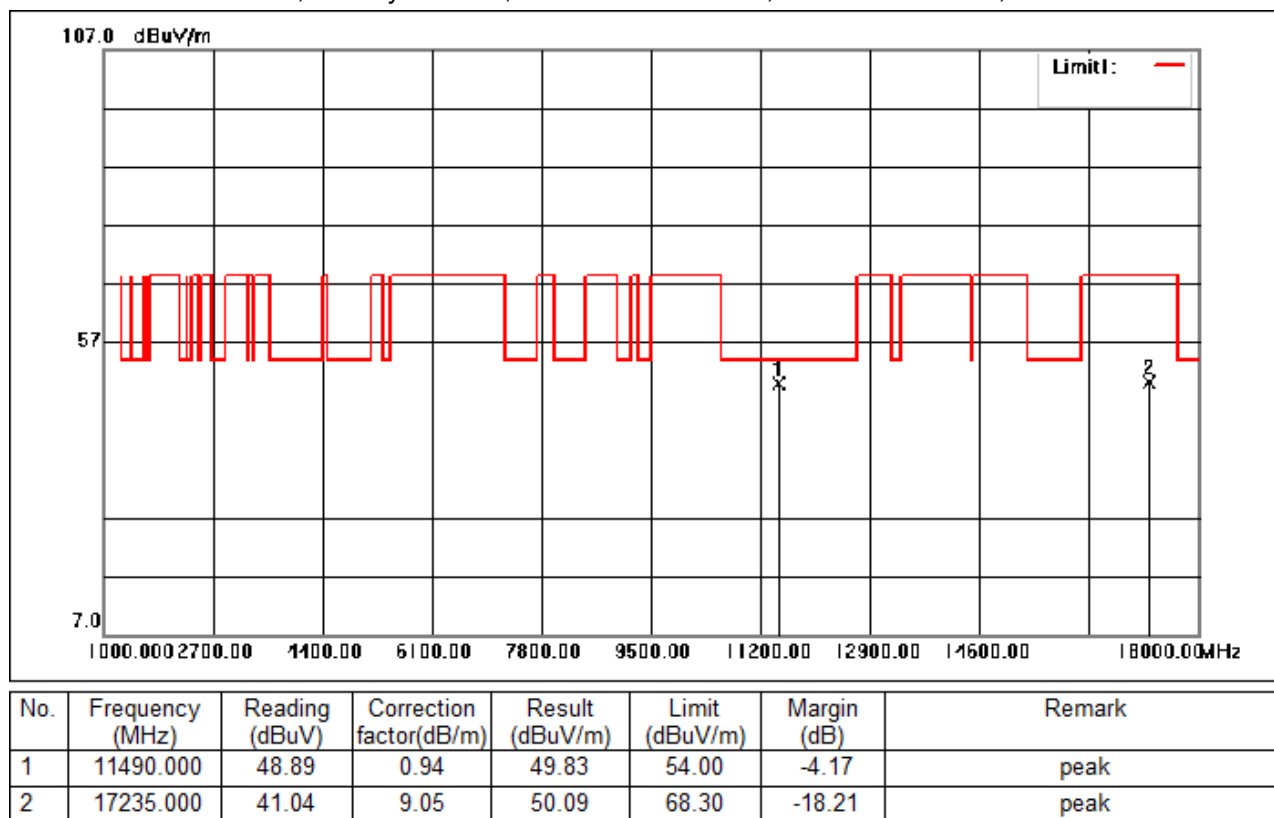
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



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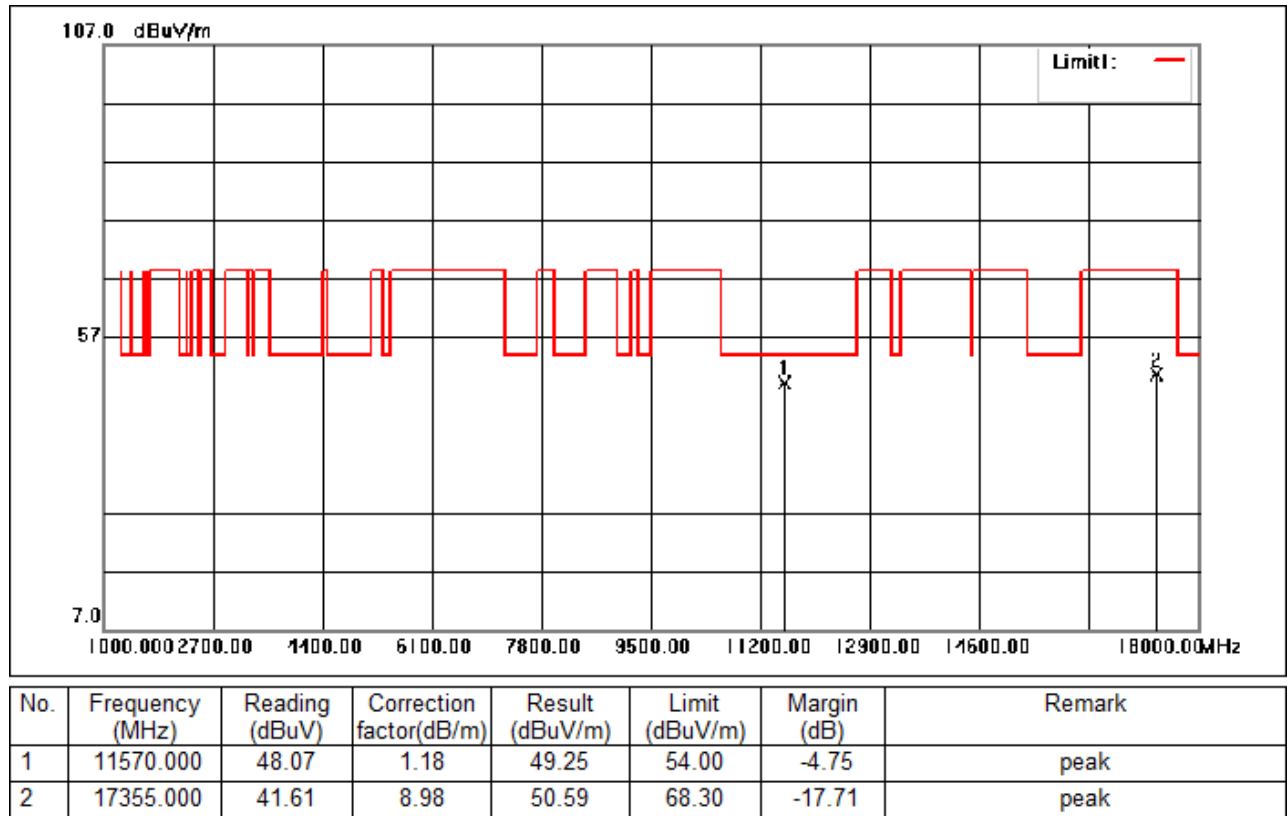
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



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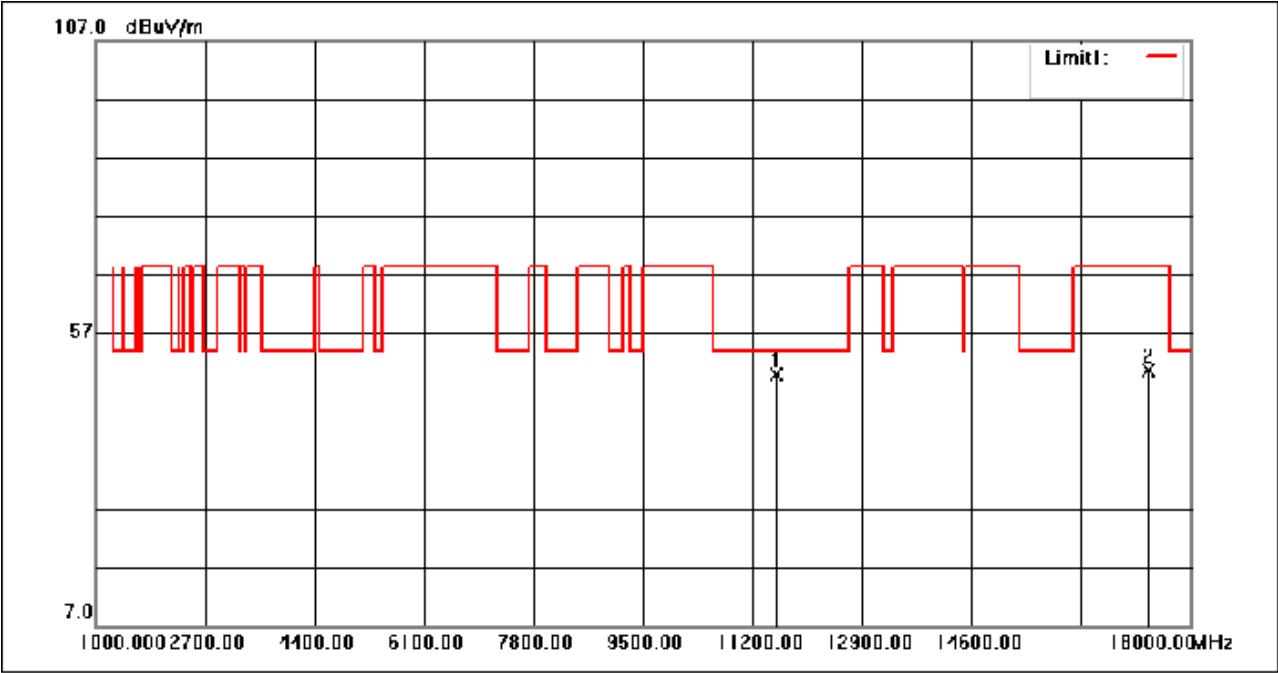
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.68	1.18	49.86	54.00	-4.14	peak
2	17355.000	41.64	8.98	50.62	68.30	-17.68	peak



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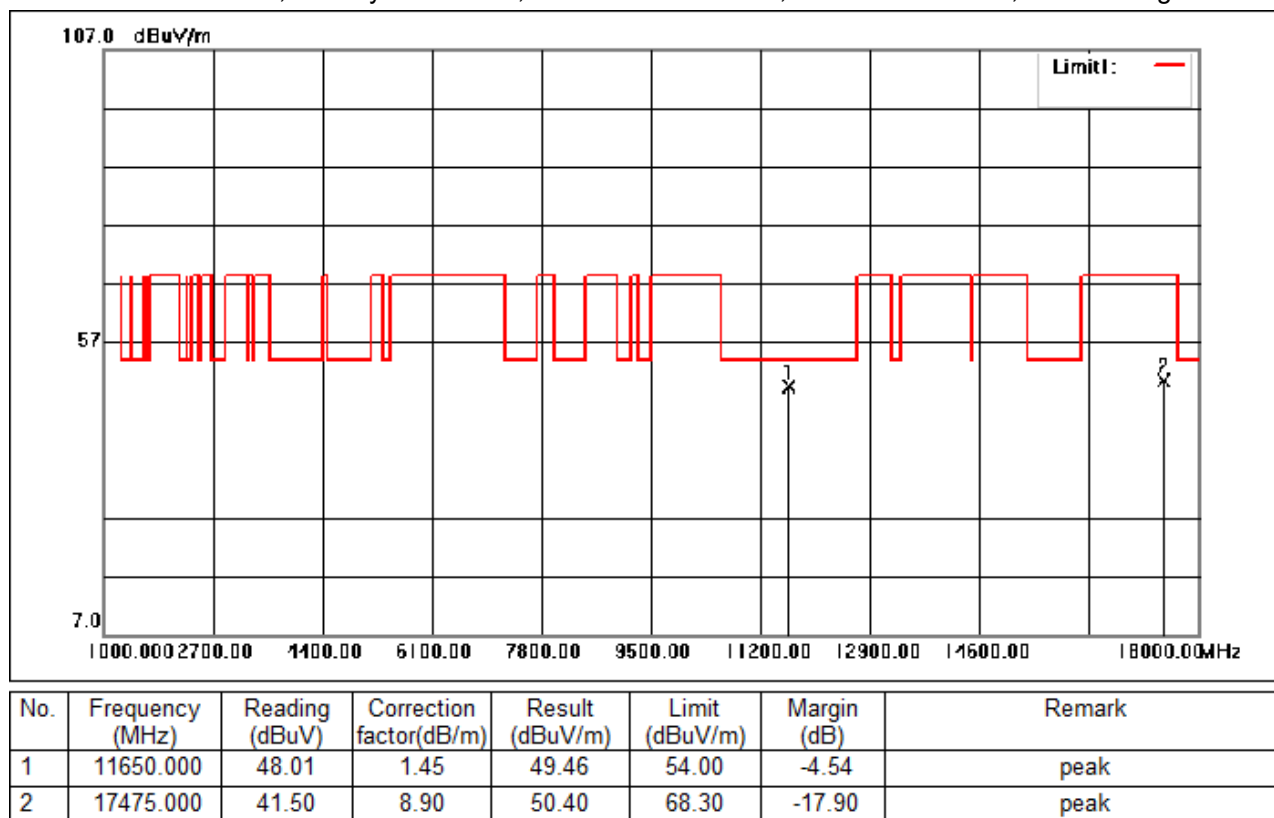
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



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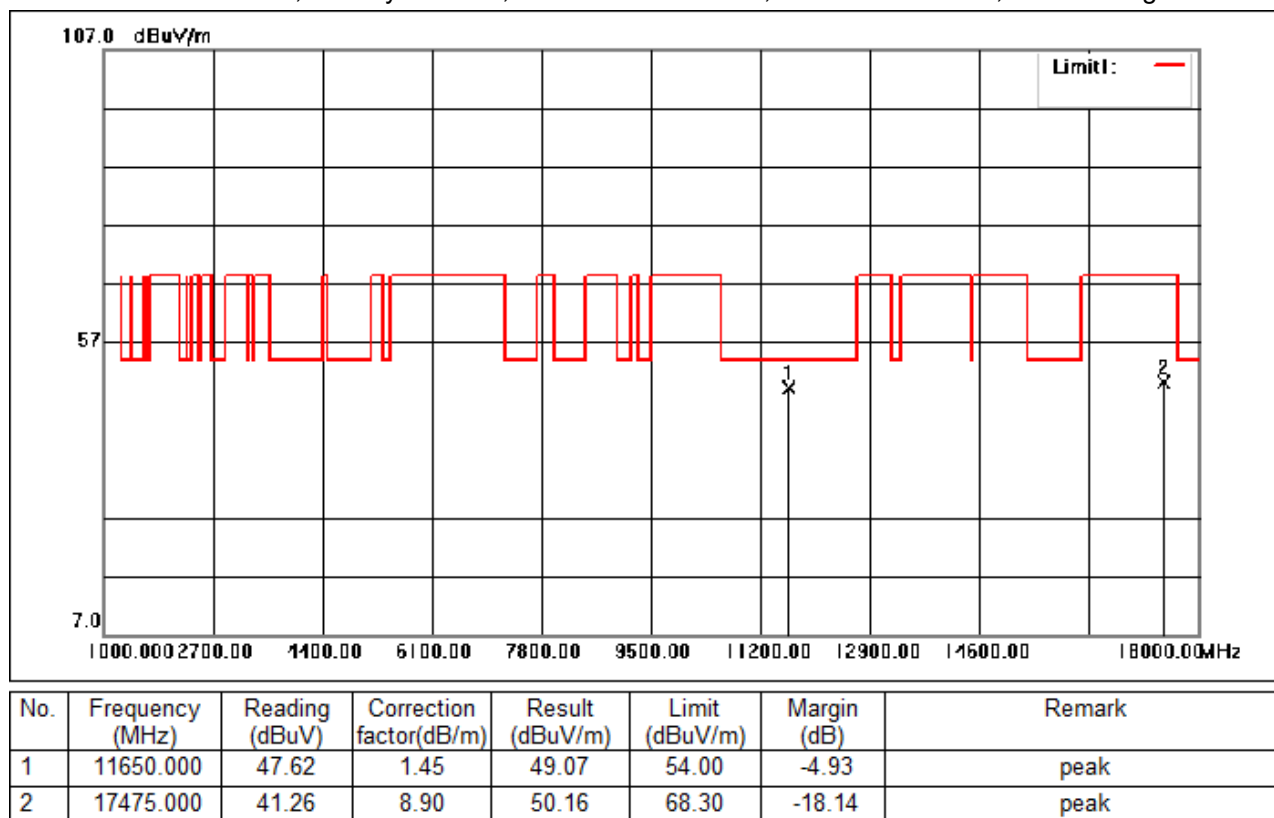
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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



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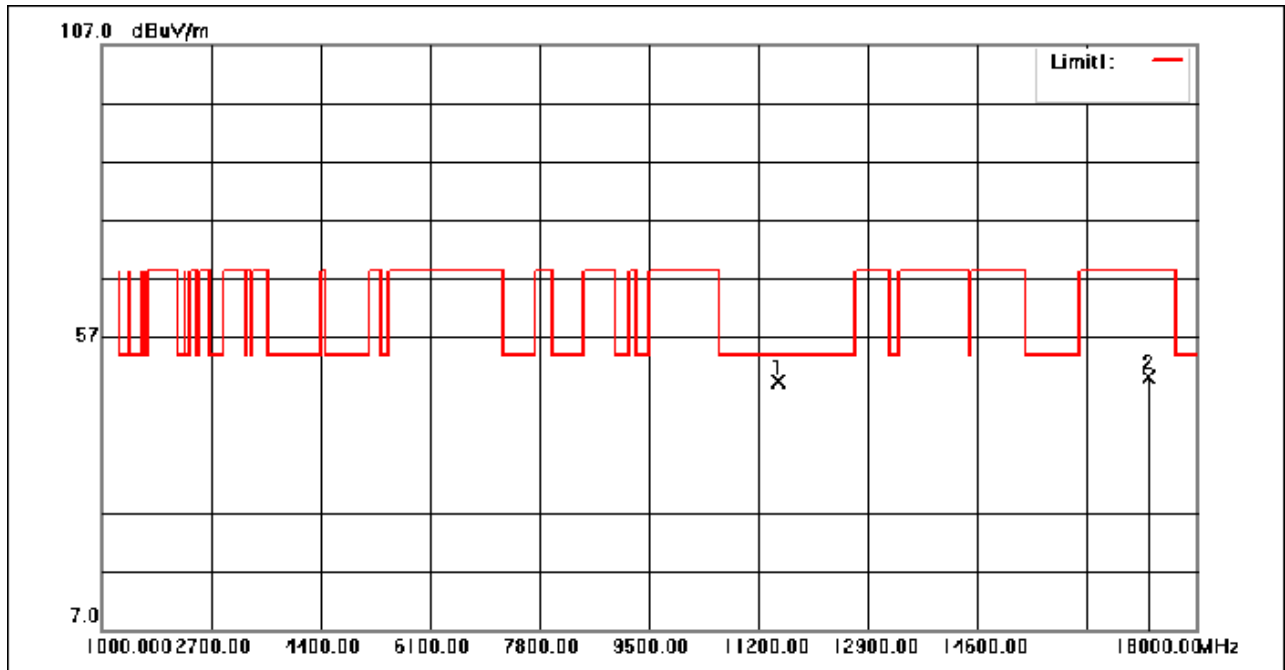
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	48.37	0.99	49.36	54.00	-4.64	peak
2	17265.000	41.14	9.03	50.17	68.30	-18.13	peak



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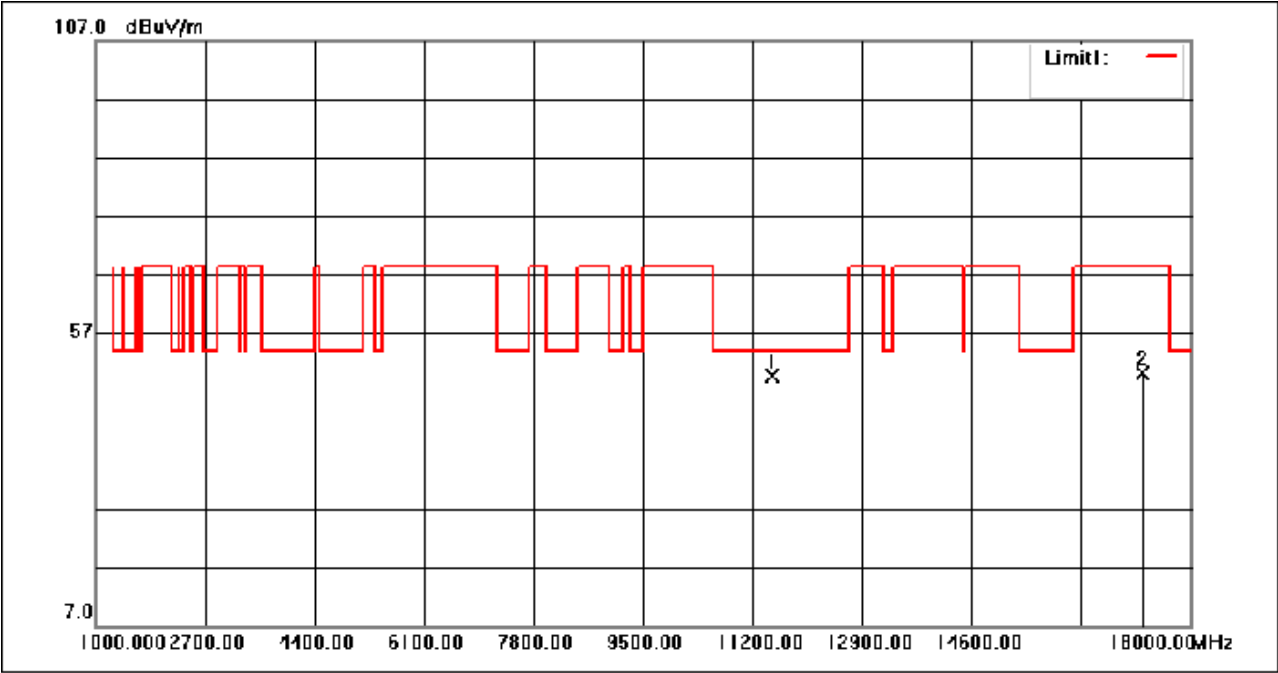
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.76	0.99	49.75	54.00	-4.25	peak
2	17265.000	41.22	9.03	50.25	68.30	-18.05	peak



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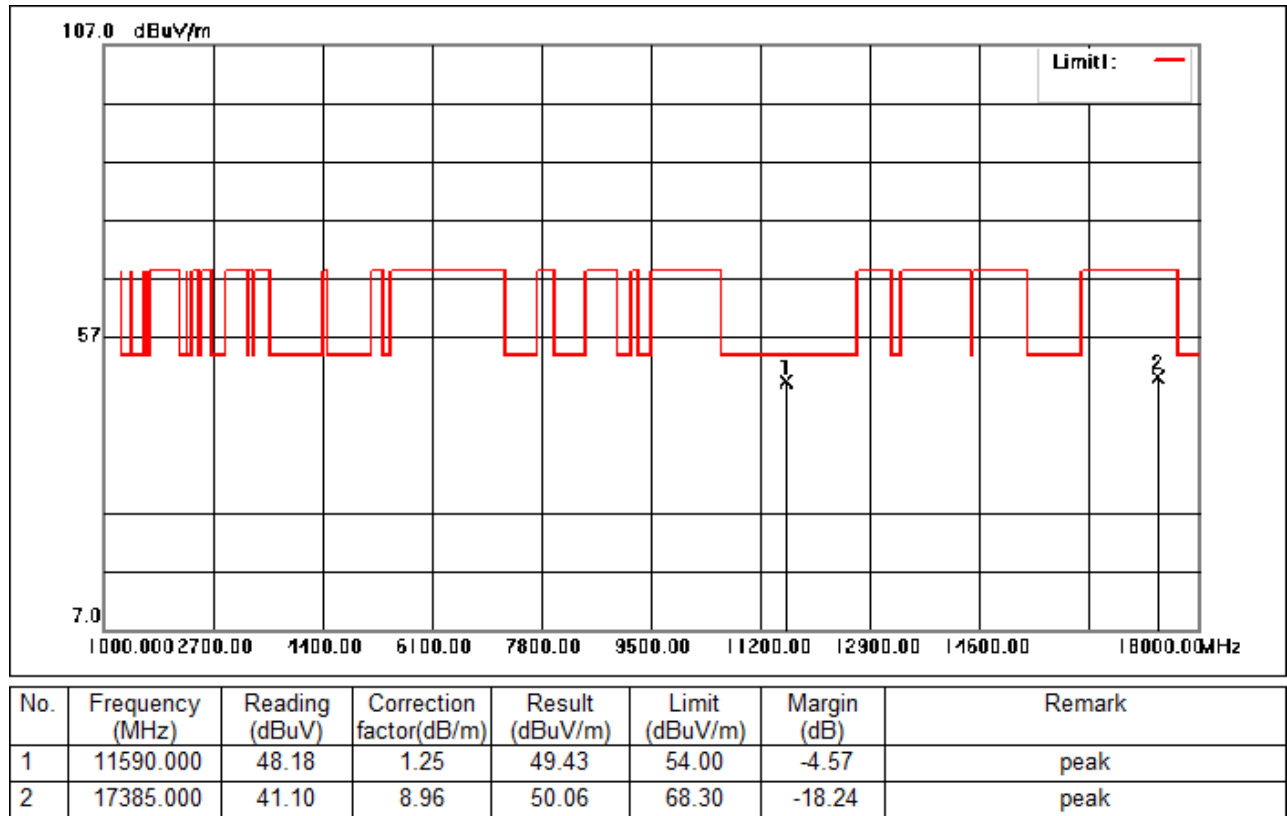
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



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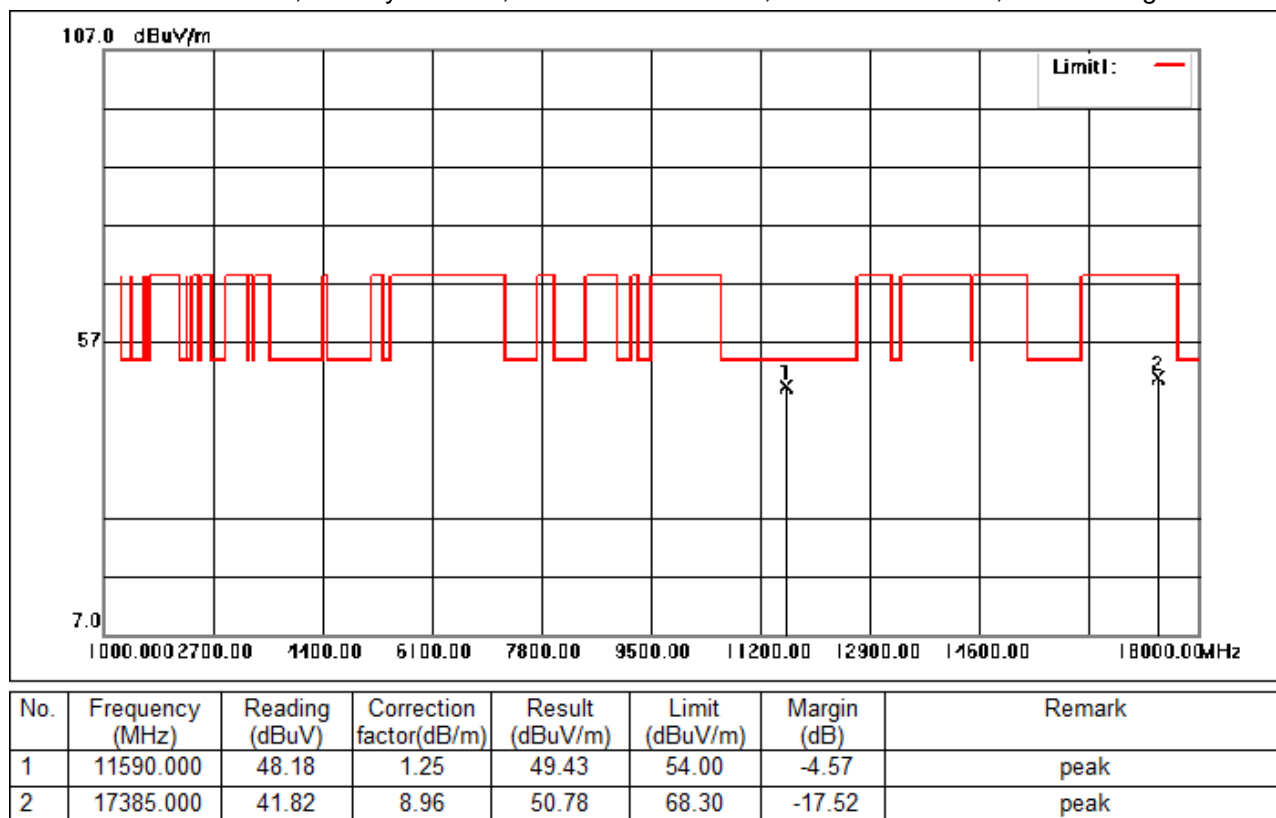
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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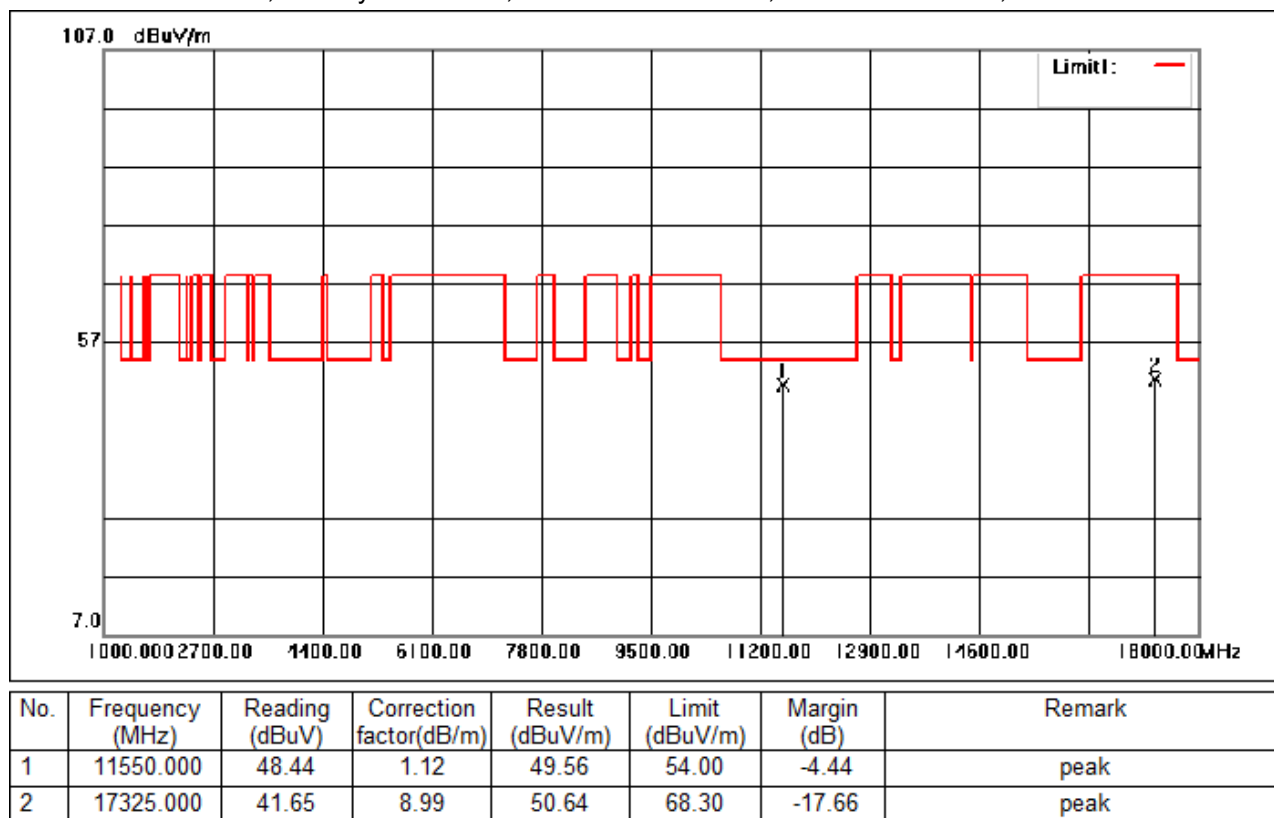
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



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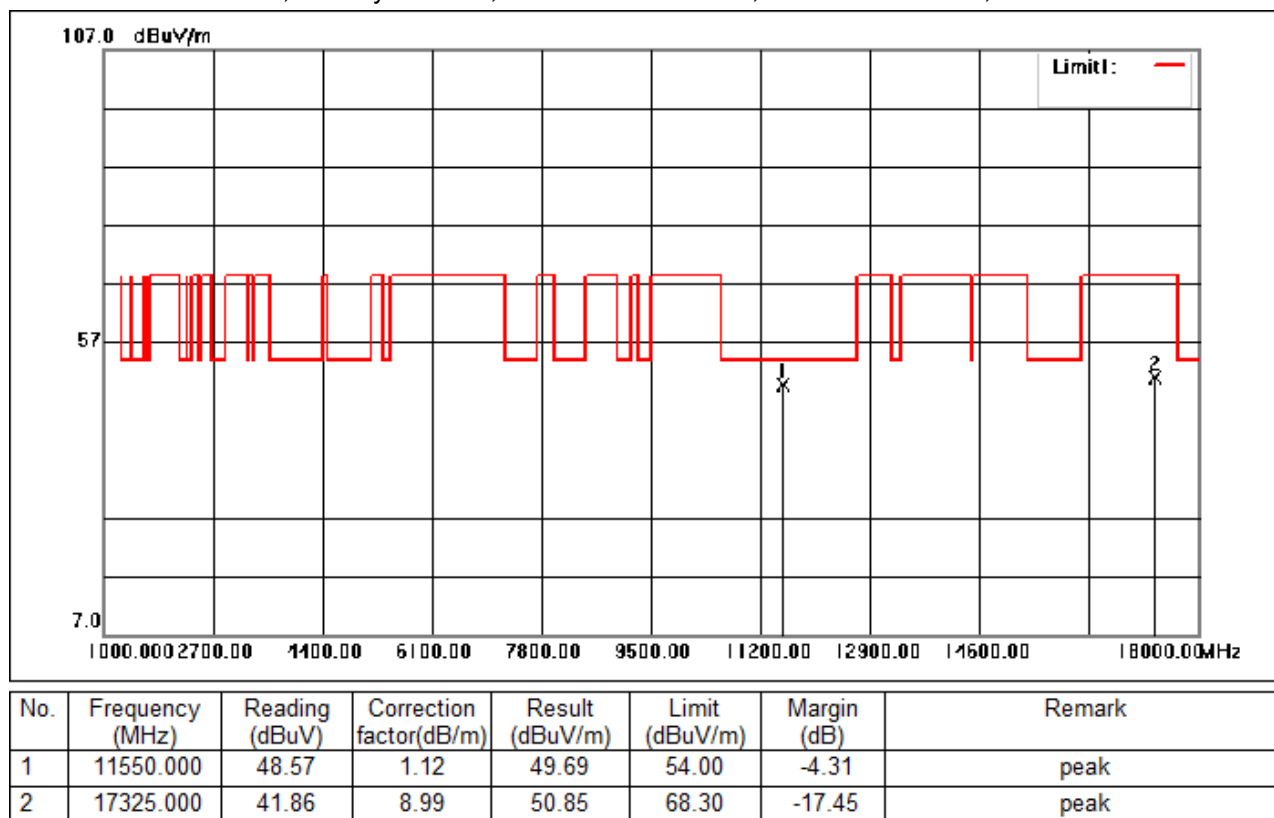
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



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7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

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

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C

Humidity: 44.2 % RH

Atmospheric Pressure: 1010 mbar



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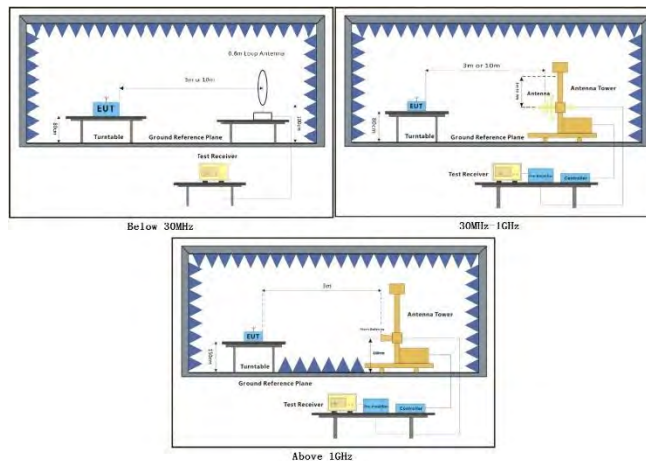
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7.9.2 Test Mode Description

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

7.9.3 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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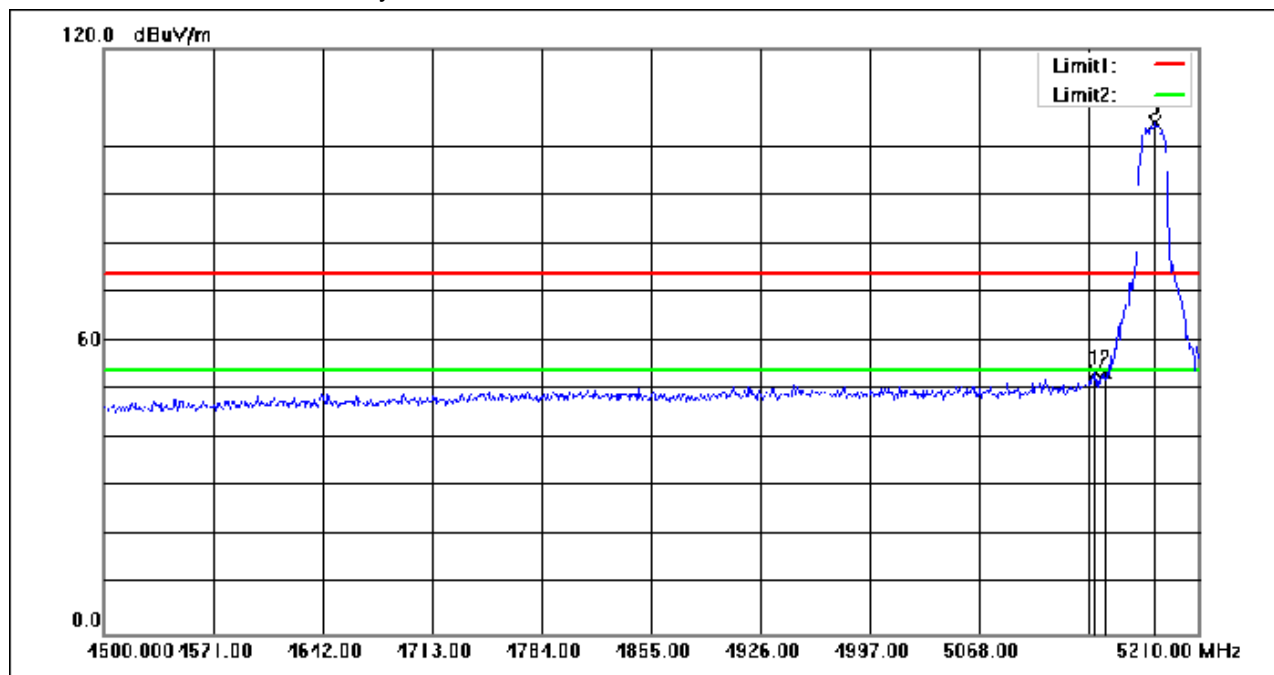
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.260	64.37	-10.90	53.47	74.00	-20.53	peak
2	5150.000	64.41	-10.95	53.46	74.00	-20.54	peak
3	5182.310	115.81	-10.86	104.95	74.00	30.95	peak



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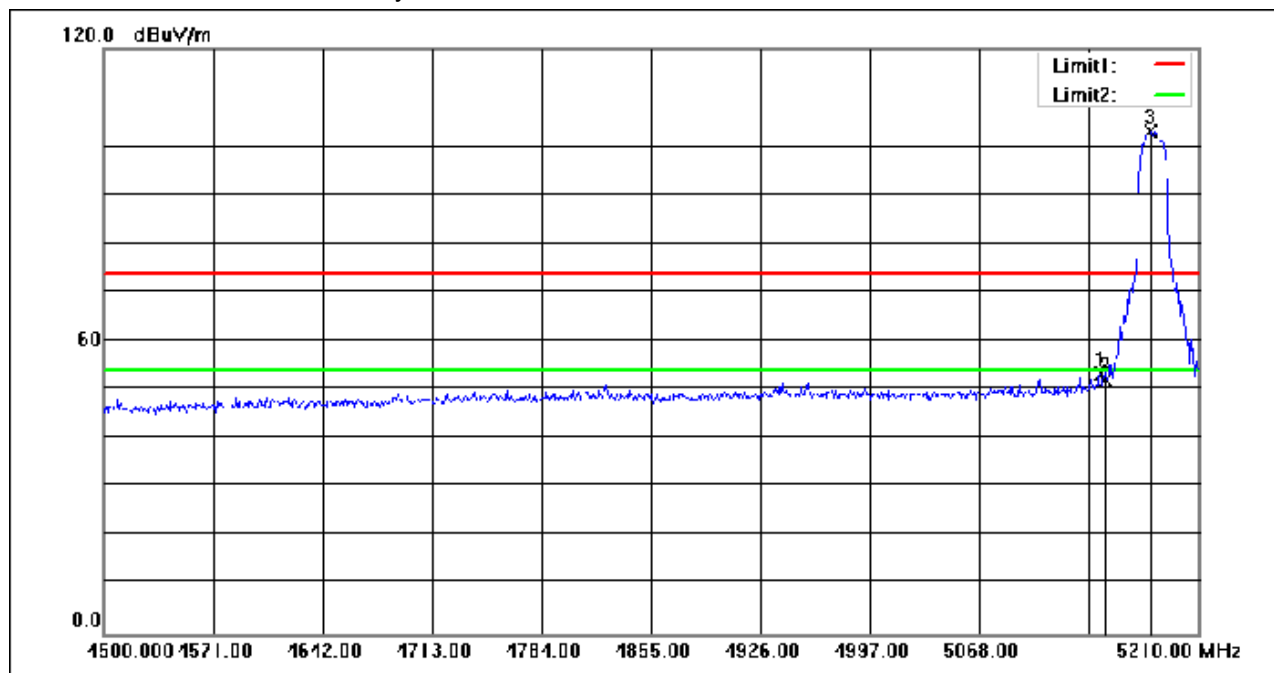
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.810	64.28	-10.93	53.35	74.00	-20.65	peak
2	5150.000	63.08	-10.95	52.13	74.00	-21.87	peak
3	5179.470	114.06	-10.87	103.19	74.00	29.19	peak



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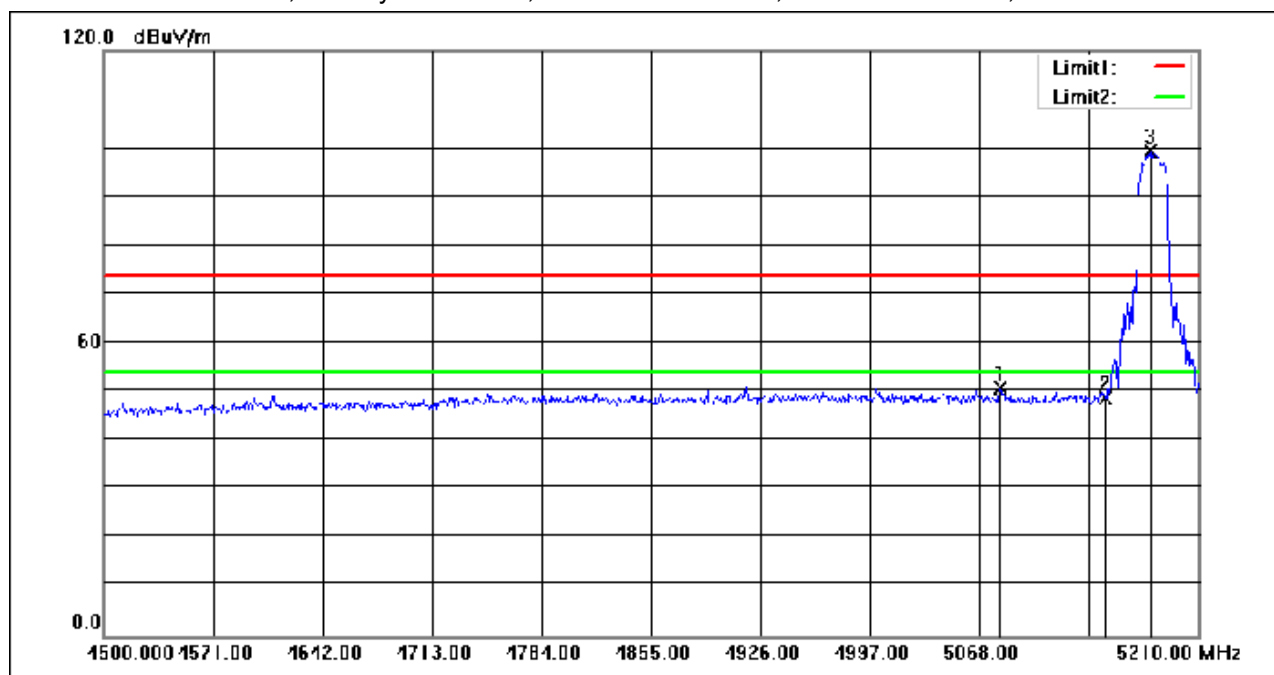
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5081.490	61.30	-10.50	50.80	74.00	-23.20	peak
2	5150.000	59.77	-10.95	48.82	74.00	-25.18	peak
3	5179.470	110.22	-10.87	99.35	74.00	25.35	peak



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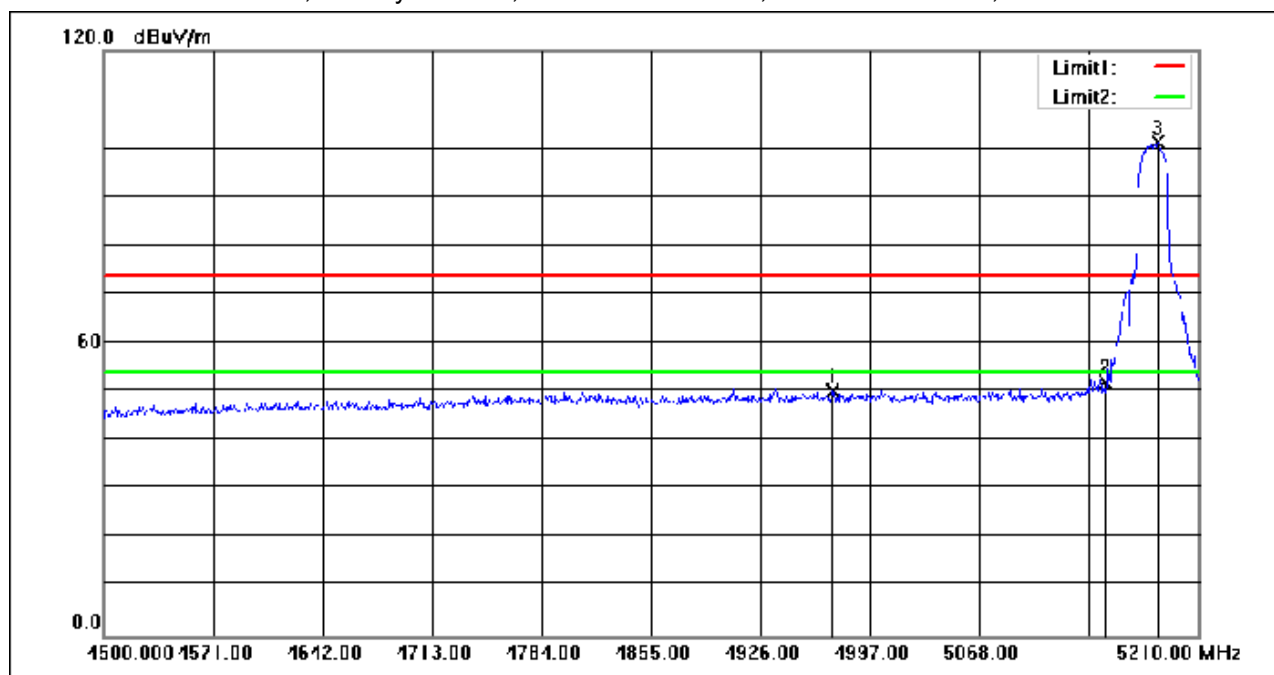
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4972.860	60.25	-10.11	50.14	74.00	-23.86	peak
2	5150.000	63.00	-10.95	52.05	74.00	-21.95	peak
3	5183.730	112.11	-10.85	101.26	74.00	27.26	peak



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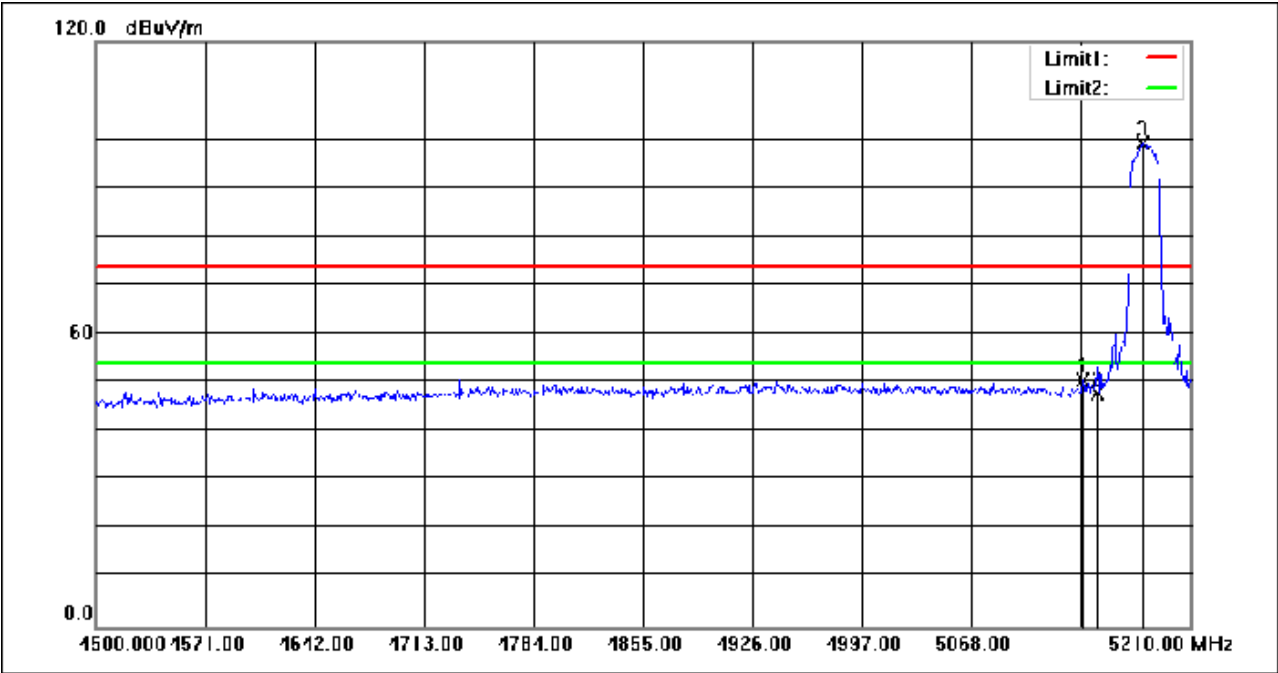
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5140.420	61.37	-10.89	50.48	74.00	-23.52	peak
2	5150.000	58.95	-10.95	48.00	74.00	-26.00	peak
3	5178.760	110.09	-10.87	99.22	74.00	25.22	peak



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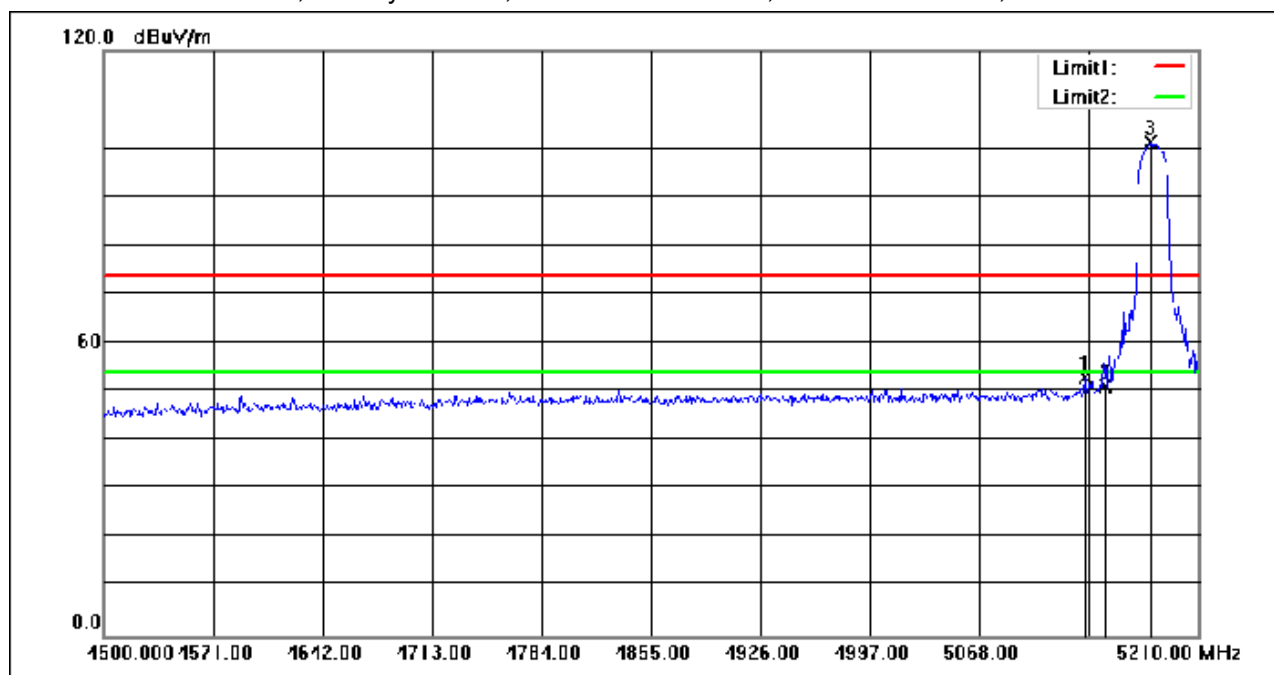
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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5136.160	63.88	-10.86	53.02	74.00	-20.98	peak
2	5150.000	61.98	-10.95	51.03	74.00	-22.97	peak
3	5178.760	112.26	-10.87	101.39	74.00	27.39	peak



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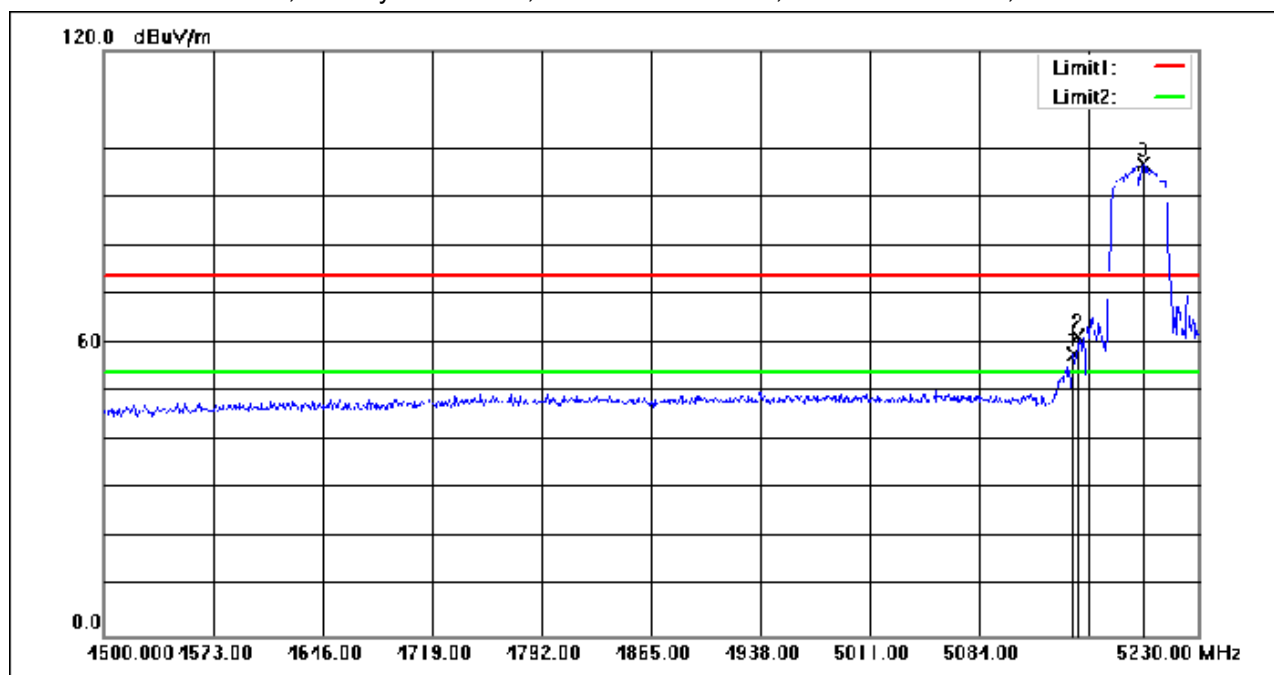
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.780	68.72	-10.93	57.79	74.00	-16.21	peak
2	5150.000	72.36	-10.95	61.41	74.00	-12.59	peak
3	5193.500	107.58	-10.83	96.75	74.00	22.75	peak



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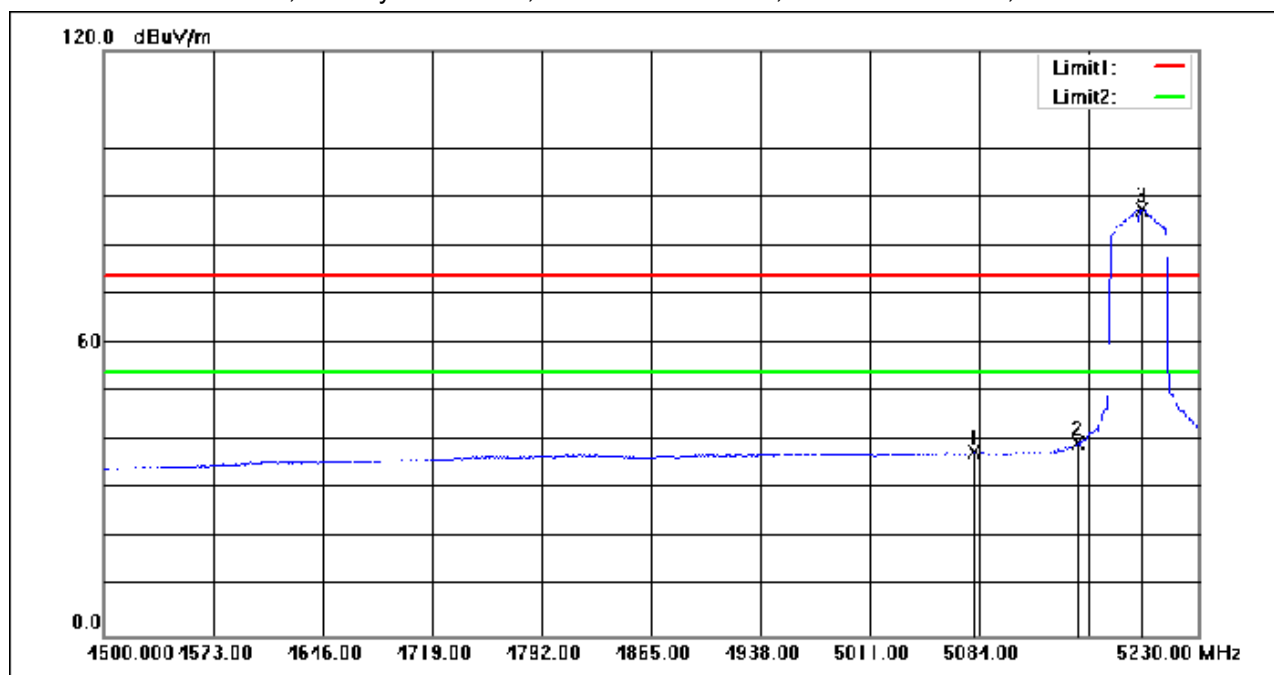
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5080.350	48.10	-10.50	37.60	54.00	-16.40	AVG
2	5150.000	50.28	-10.95	39.33	54.00	-14.67	AVG
3	5192.040	98.32	-10.83	87.49	54.00	33.49	AVG



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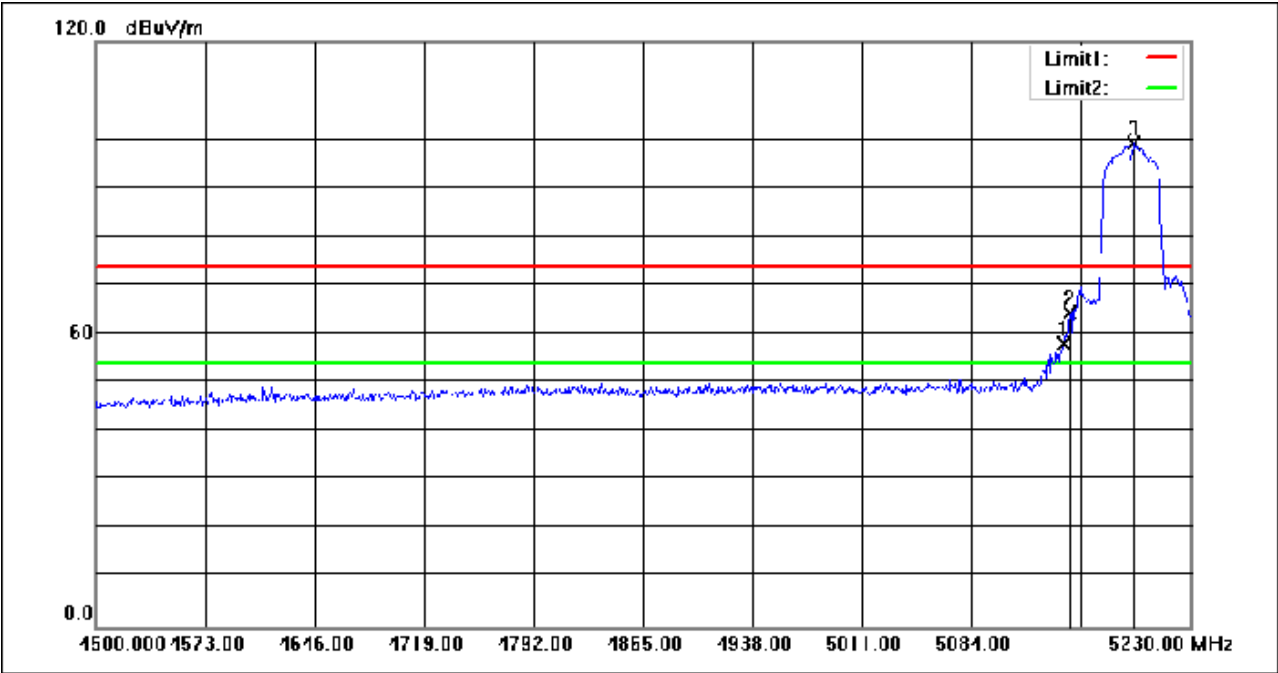
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

Page: 98 of 226

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	5146.050	69.08	-10.93	58.15	74.00	-15.85	peak
2	5150.000	75.26	-10.95	64.31	74.00	-9.69	peak
3	5192.770	109.96	-10.83	99.13	74.00	25.13	peak



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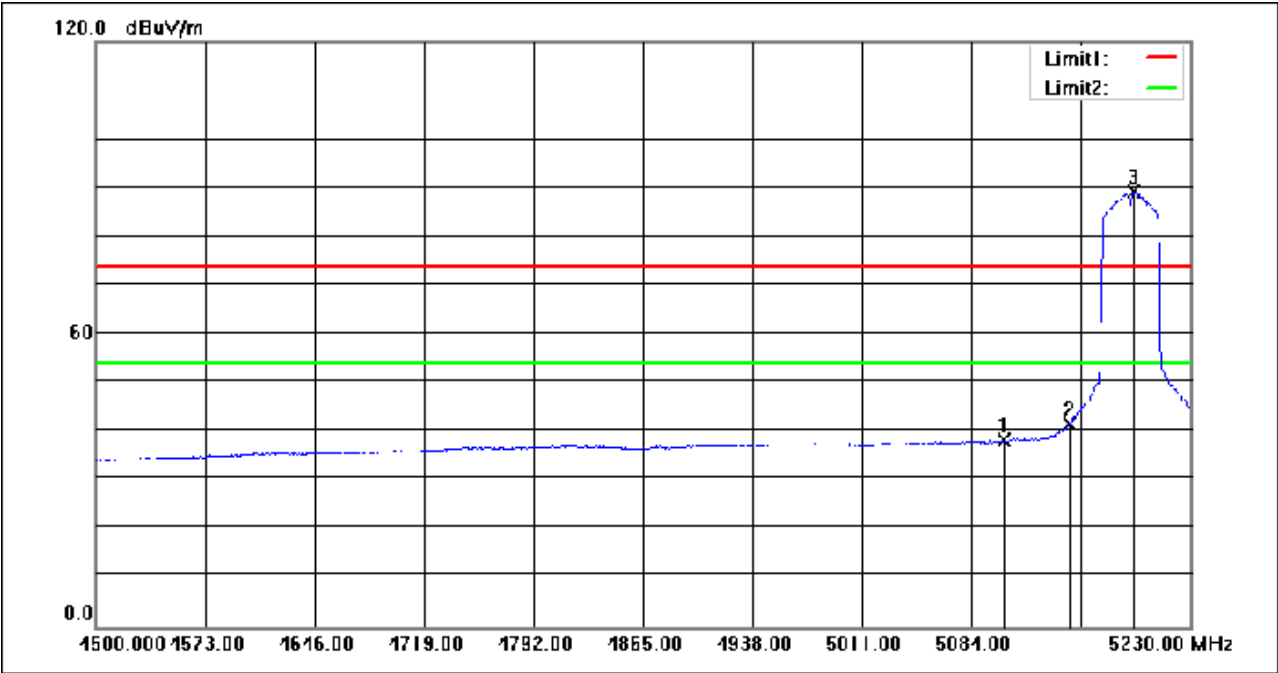
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5105.900	48.92	-10.66	38.26	54.00	-15.74	AVG
2	5150.000	52.58	-10.95	41.63	54.00	-12.37	AVG
3	5192.040	100.07	-10.83	89.24	54.00	35.24	AVG



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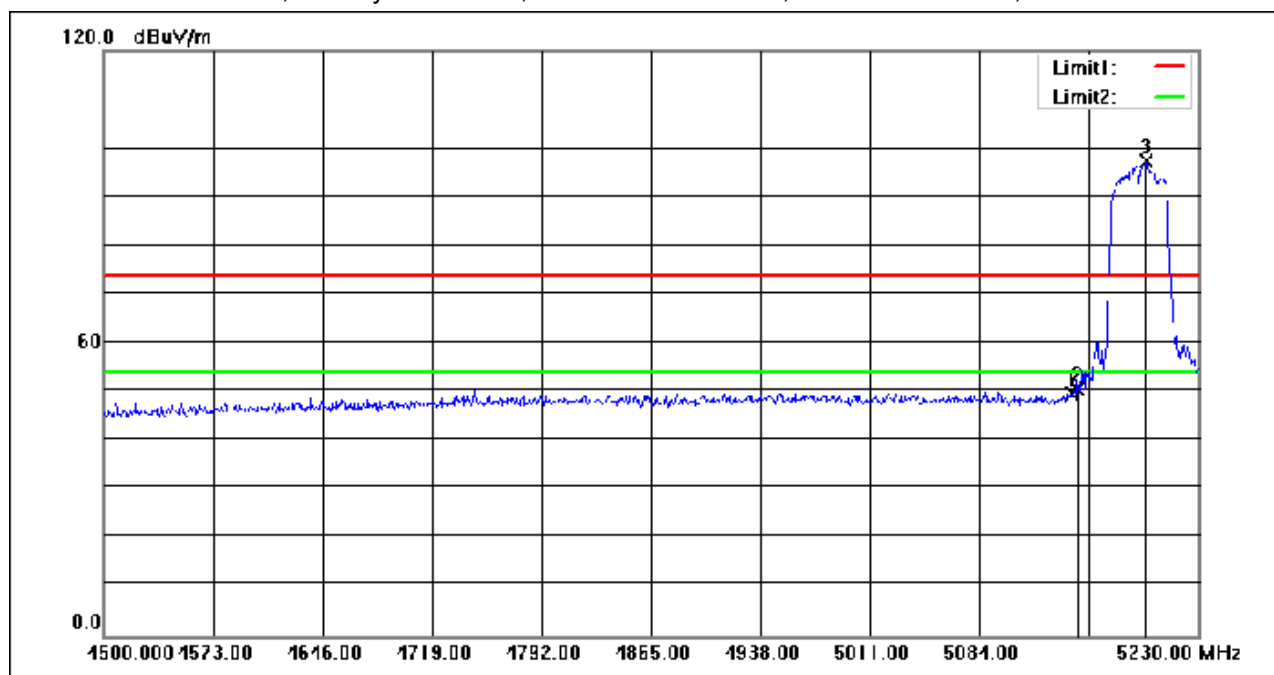
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5146.050	60.72	-10.93	49.79	74.00	-24.21	peak
2	5150.000	61.39	-10.95	50.44	74.00	-23.56	peak
3	5194.960	108.22	-10.82	97.40	74.00	23.40	peak



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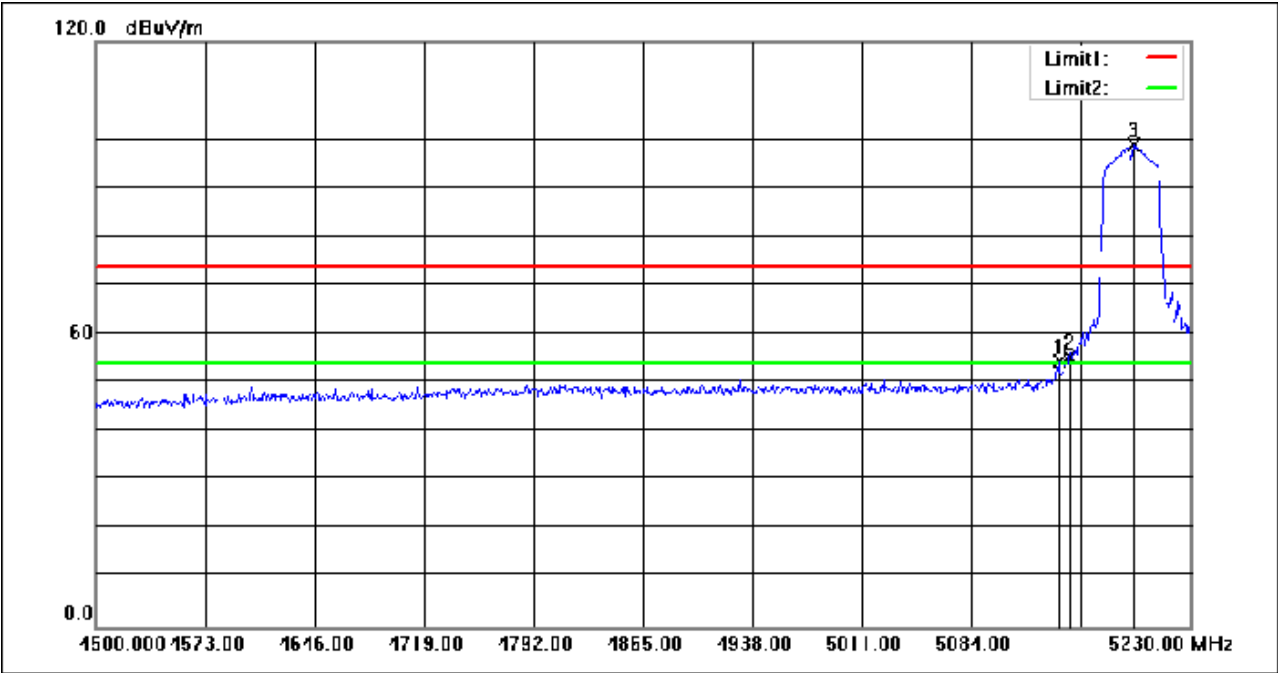
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5142.400	65.26	-10.90	54.36	74.00	-19.64	peak
2	5150.000	66.18	-10.95	55.23	74.00	-18.77	peak
3	5192.770	109.63	-10.83	98.80	74.00	24.80	peak



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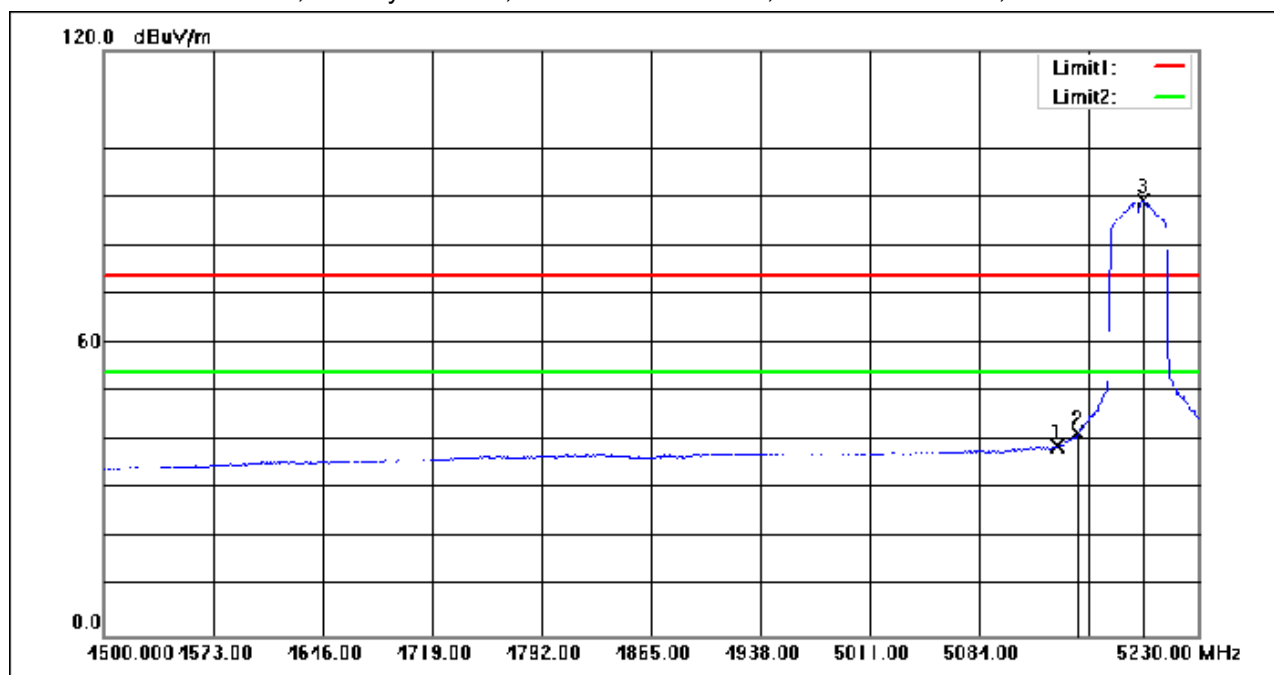
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5135.830	49.59	-10.85	38.74	54.00	-15.26	AVG
2	5150.000	52.56	-10.95	41.61	54.00	-12.39	AVG
3	5193.500	100.10	-10.83	89.27	54.00	35.27	AVG



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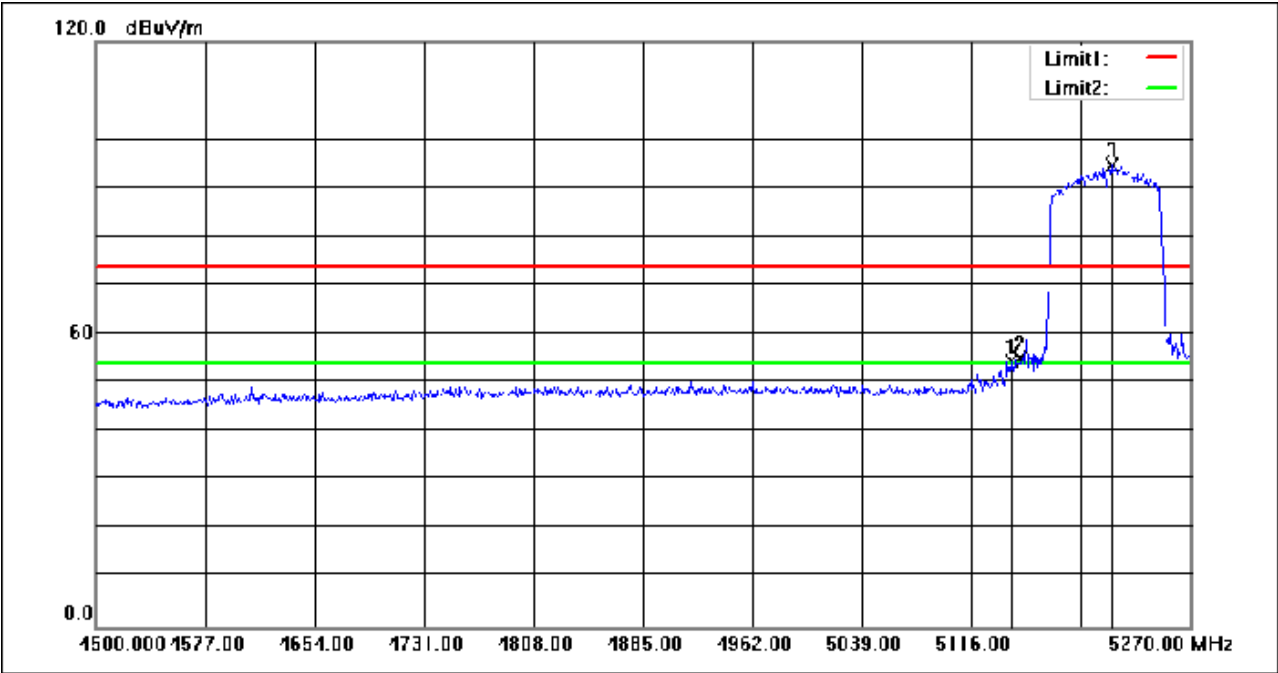
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5144.490	65.44	-10.91	54.53	74.00	-19.47	peak
2	5150.000	65.86	-10.95	54.91	74.00	-19.09	peak
3	5214.560	105.29	-10.77	94.52	74.00	20.52	peak



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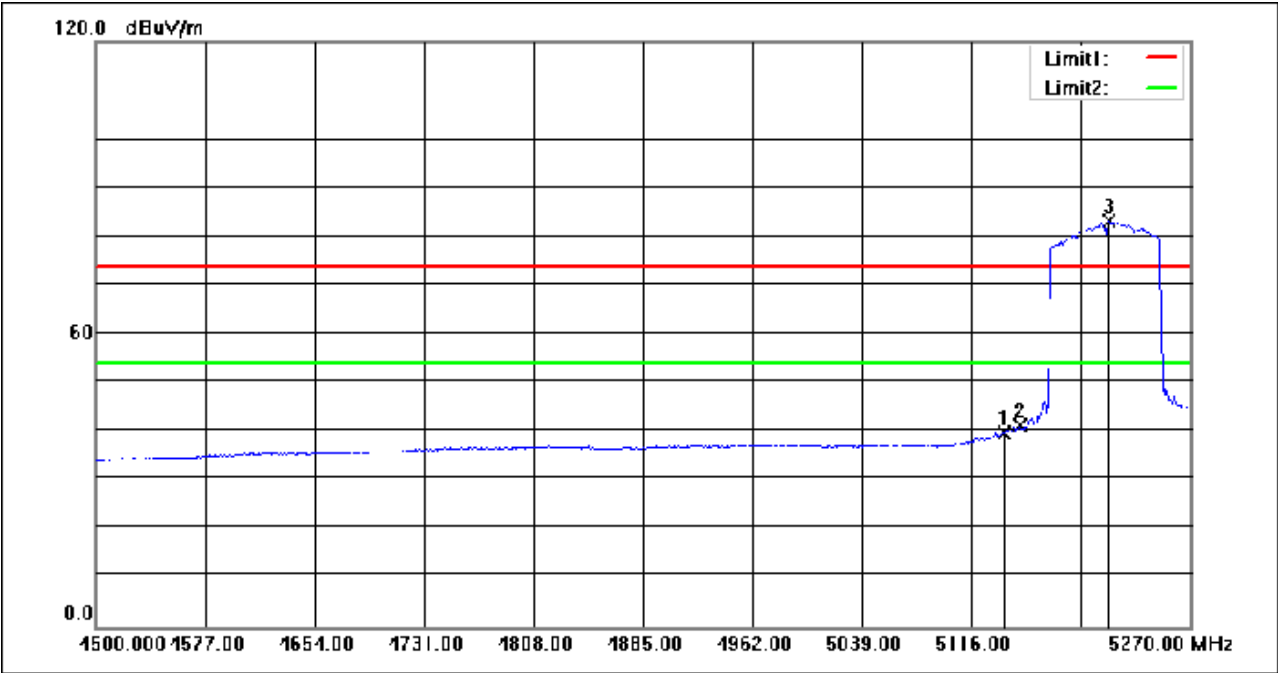
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5139.100	50.72	-10.88	39.84	54.00	-14.16	AVG
2	5150.000	52.15	-10.95	41.20	54.00	-12.80	AVG
3	5213.020	94.02	-10.77	83.25	54.00	29.25	AVG



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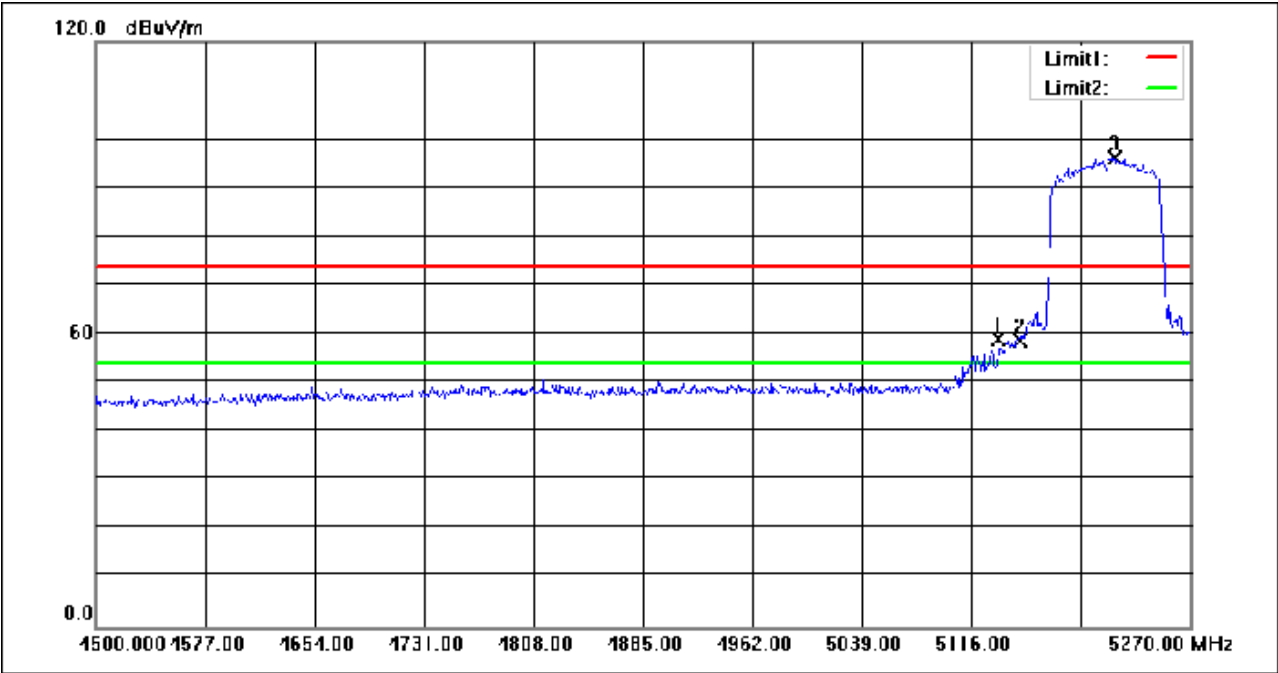
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5135.250	69.69	-10.85	58.84	74.00	-15.16	peak
2	5150.000	69.63	-10.95	58.68	74.00	-15.32	peak
3	5216.870	106.99	-10.77	96.22	74.00	22.22	peak



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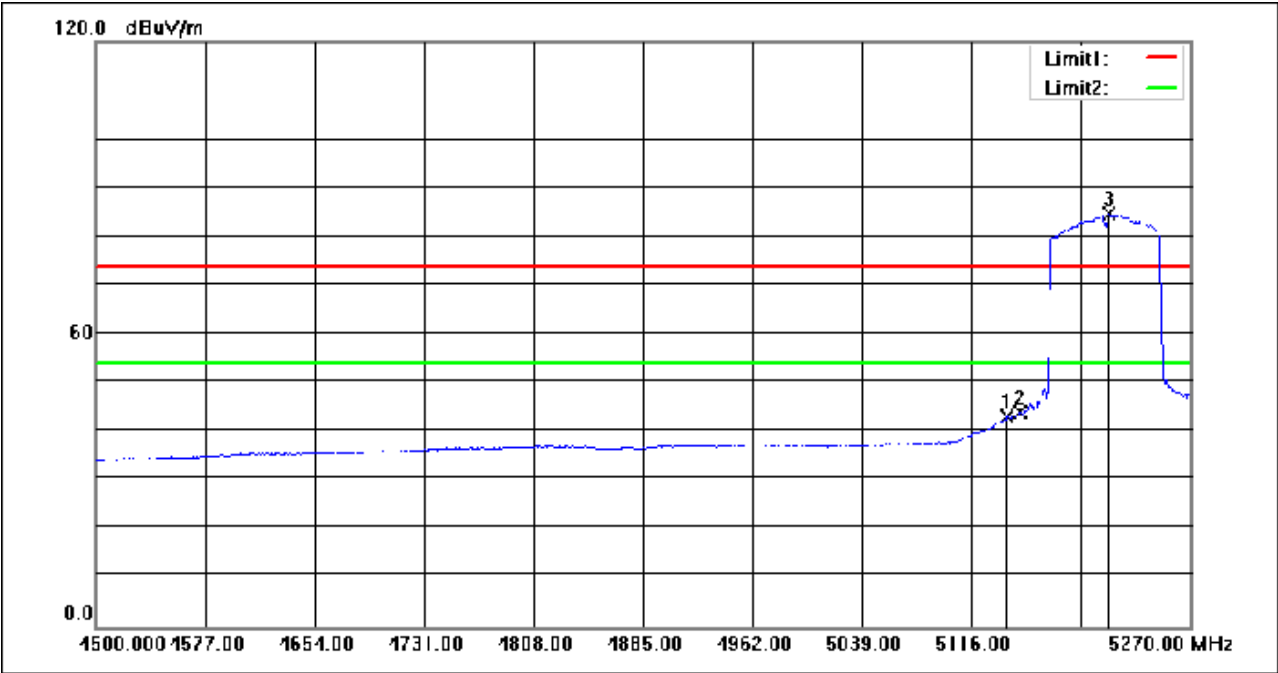
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5141.410	53.91	-10.89	43.02	54.00	-10.98	AVG
2	5150.000	54.80	-10.95	43.85	54.00	-10.15	AVG
3	5213.020	95.47	-10.77	84.70	54.00	30.70	AVG



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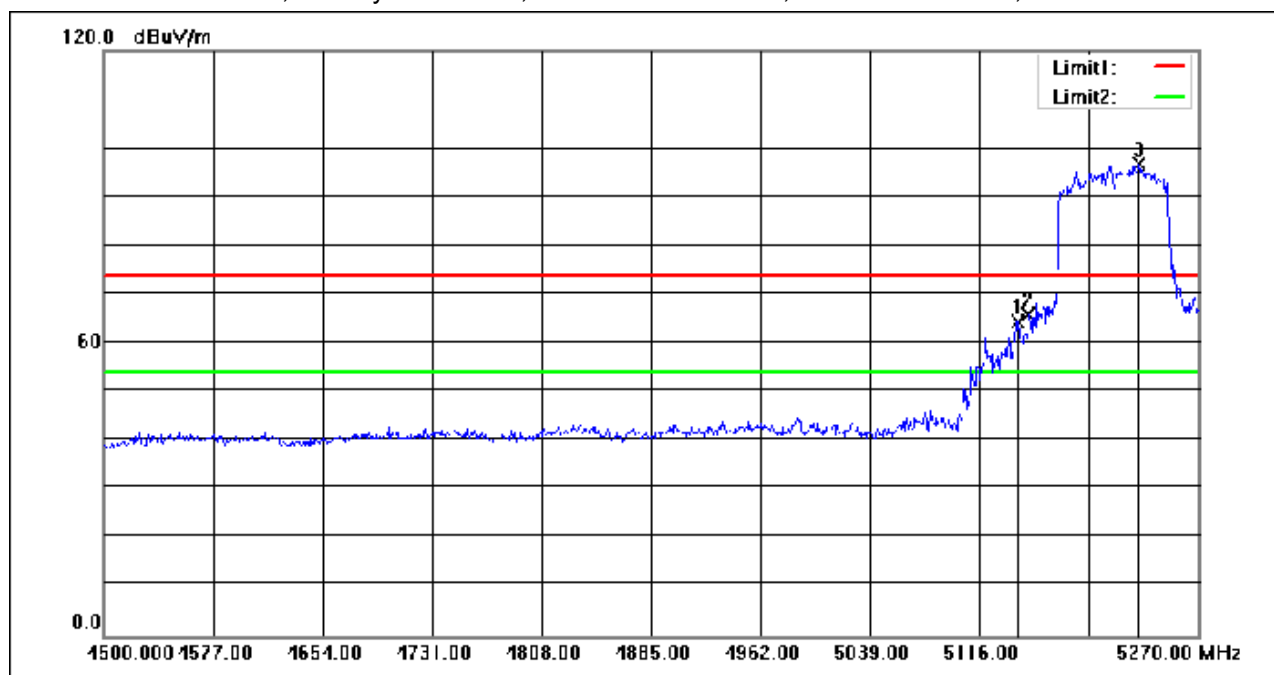
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Compliance Certification Services (Kunshan) Inc.

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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	5142.950	75.29	-10.90	64.39	74.00	-9.61	peak
2	5150.000	76.83	-10.95	65.88	74.00	-8.12	peak
3	5228.420	107.37	-10.73	96.64	74.00	22.64	peak



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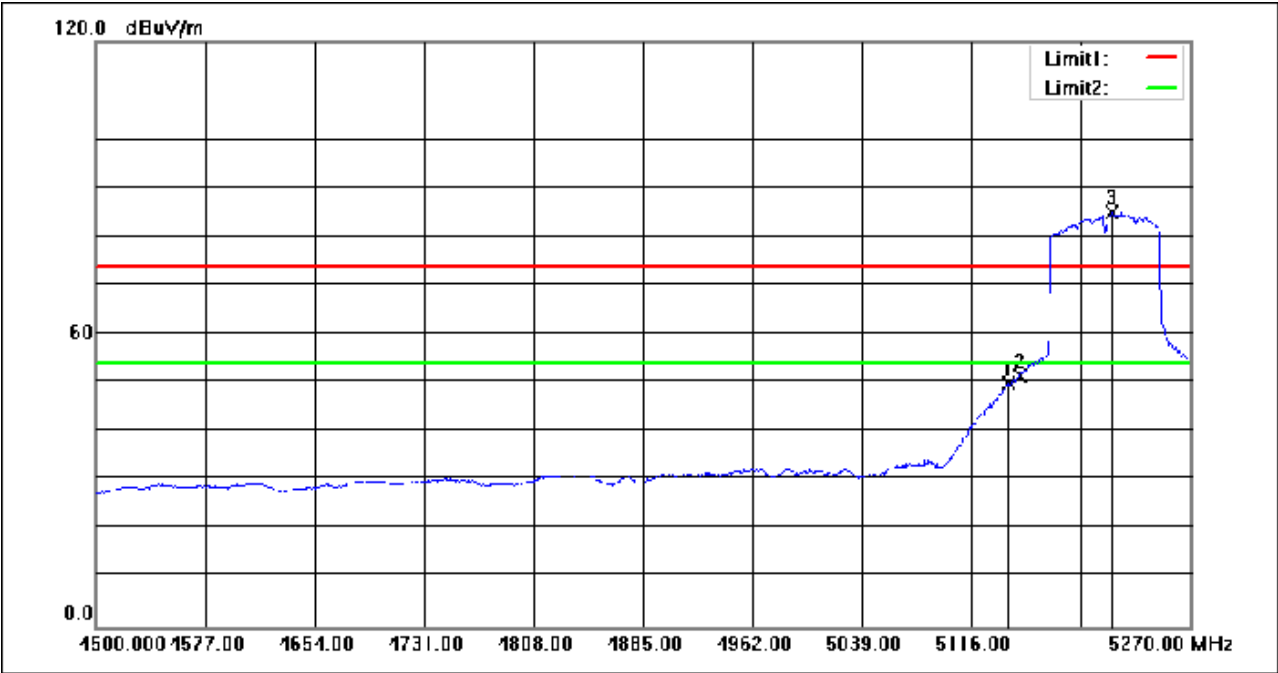
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Compliance Certification Services (Kunshan) Inc.

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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	5142.180	60.71	-10.90	49.81	54.00	-4.19	AVG
2	5150.000	62.38	-10.95	51.43	54.00	-2.57	AVG
3	5215.330	95.90	-10.77	85.13	54.00	31.13	AVG



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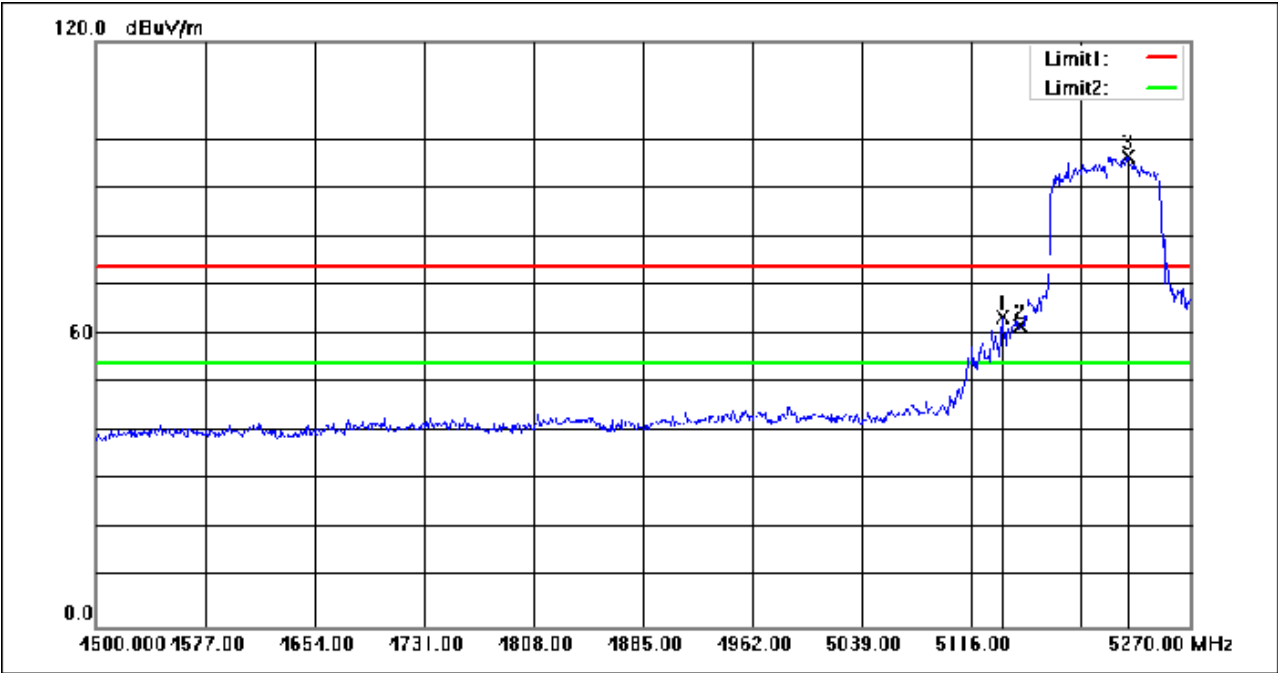
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Compliance Certification Services (Kunshan) Inc.

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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	5137.560	74.36	-10.87	63.49	74.00	-10.51	peak
2	5150.000	72.61	-10.95	61.66	74.00	-12.34	peak
3	5226.110	107.16	-10.74	96.42	74.00	22.42	peak



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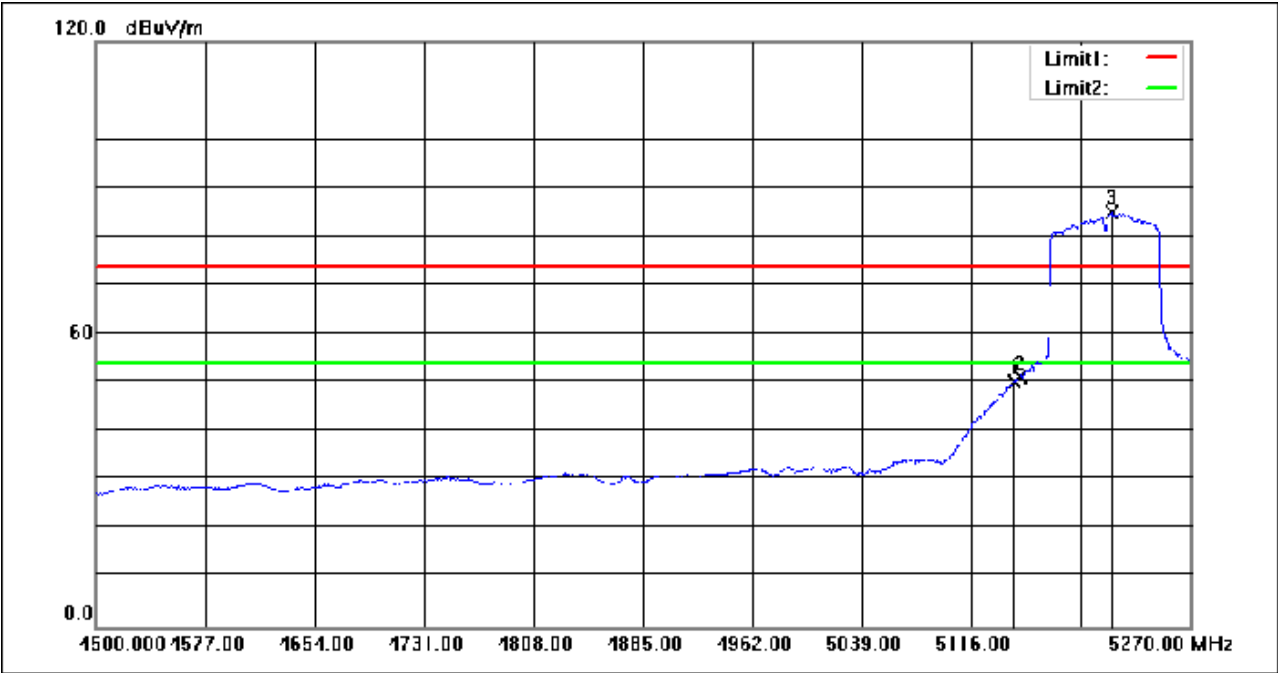
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5146.030	61.26	-10.93	50.33	54.00	-3.67	AVG
2	5150.000	62.05	-10.95	51.10	54.00	-2.90	AVG
3	5214.560	95.71	-10.77	84.94	54.00	30.94	AVG



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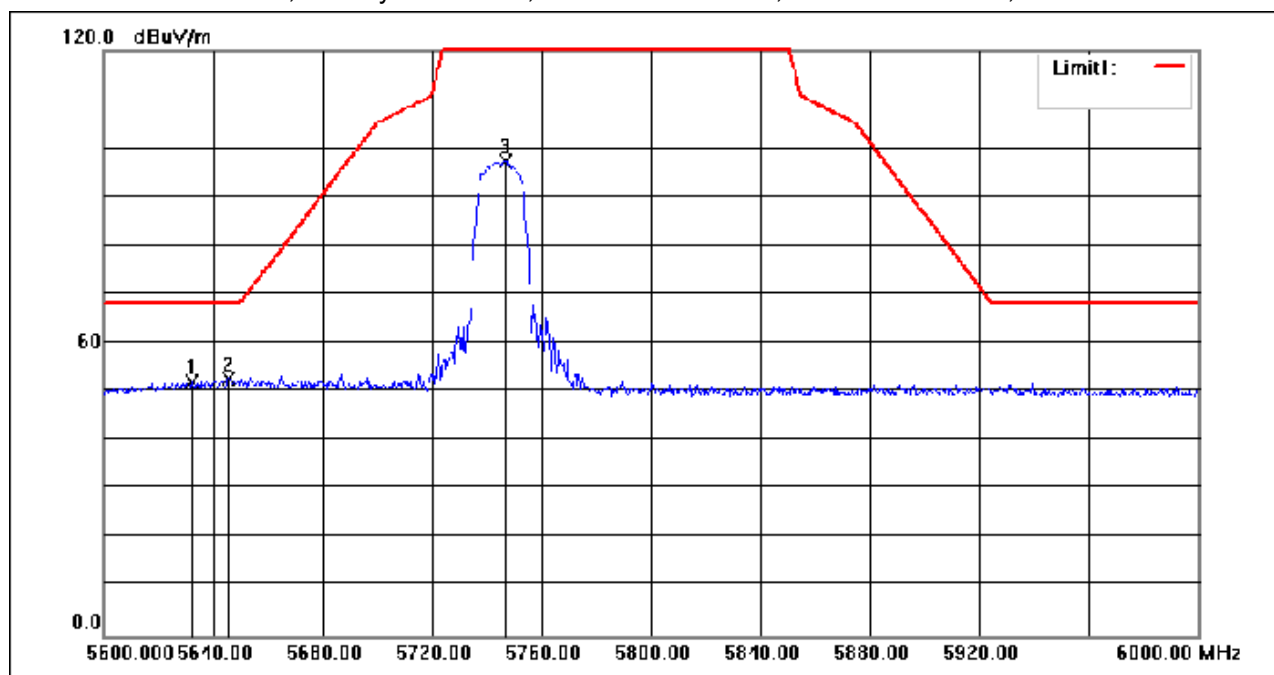
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5632.000	61.71	-9.52	52.19	68.20	-16.01	peak
2	5645.600	62.27	-9.47	52.80	68.20	-15.40	peak
3	5746.800	106.76	-9.28	97.48	135.00	-37.52	peak



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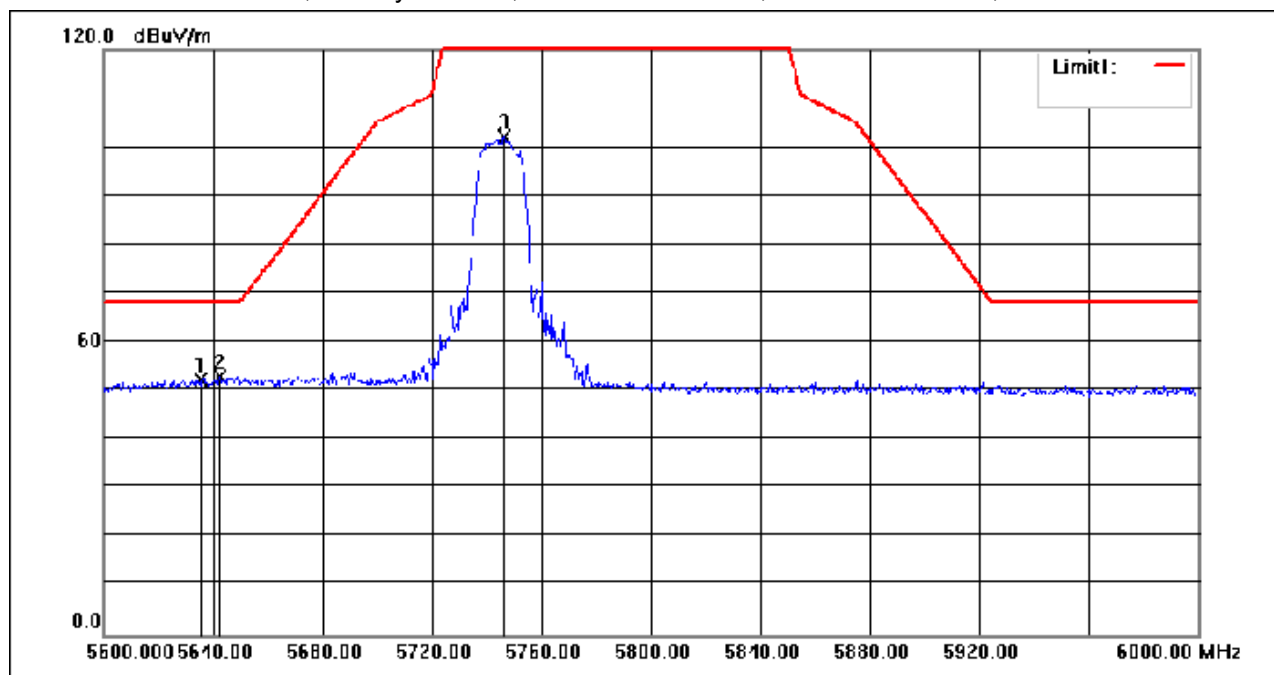
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Compliance Certification Services (Kunshan) Inc.

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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	5635.200	61.87	-9.51	52.36	68.20	-15.84	peak
2	5642.400	62.51	-9.49	53.02	68.20	-15.18	peak
3	5746.400	111.32	-9.28	102.04	135.00	-32.96	peak



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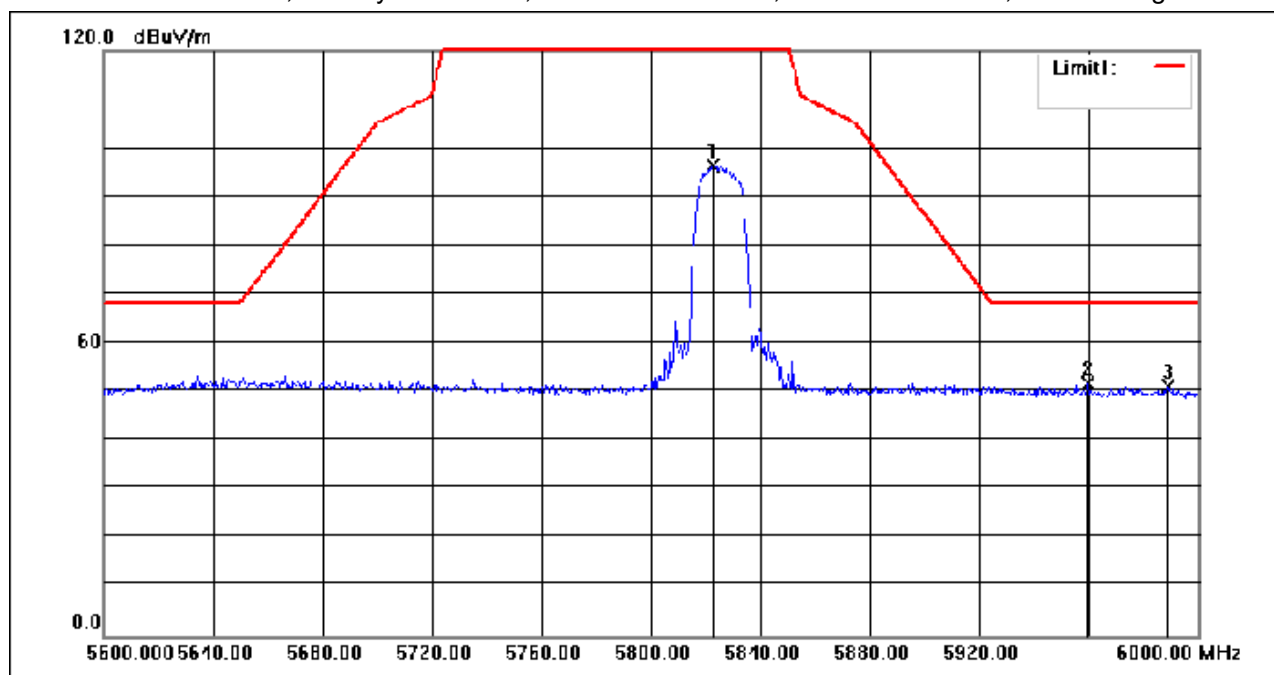
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5822.400	105.78	-9.39	96.39	135.00	-38.61	peak
2	5959.600	60.90	-9.28	51.62	68.20	-16.58	peak
3	5989.200	60.43	-9.23	51.20	68.20	-17.00	peak



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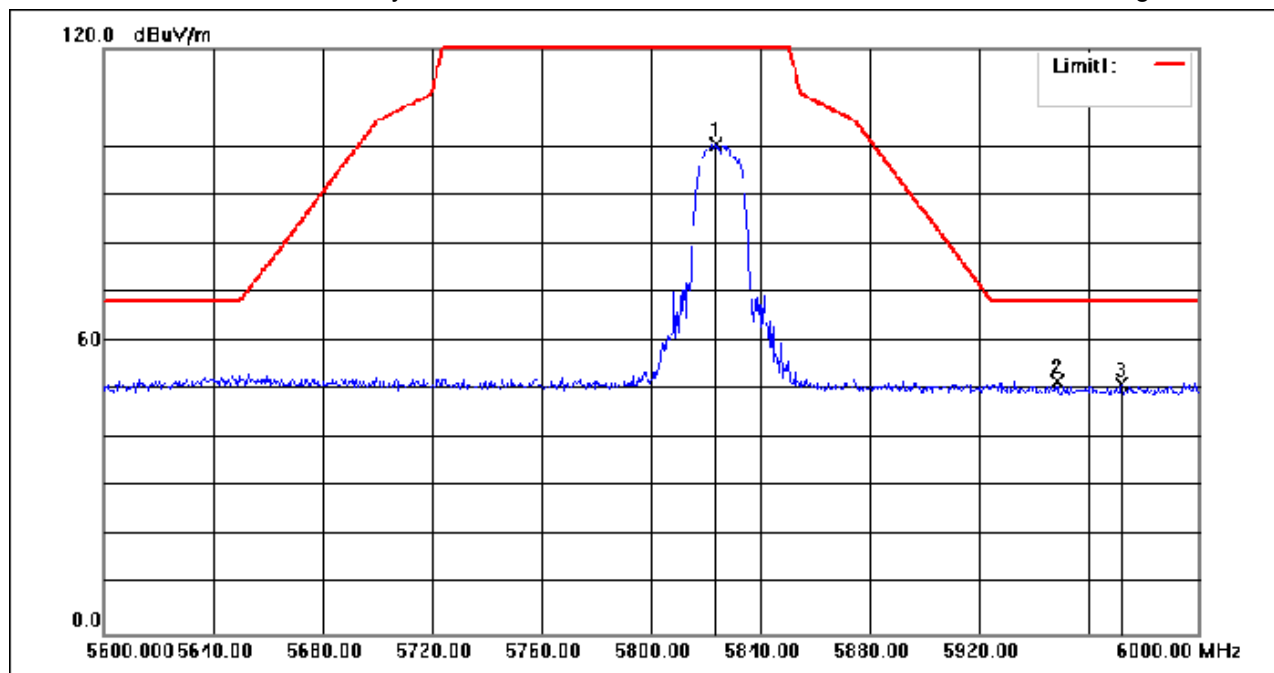
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	109.89	-9.40	100.49	135.00	-34.51	peak
2	5948.400	60.97	-9.29	51.68	68.20	-16.52	peak
3	5972.000	60.50	-9.26	51.24	68.20	-16.96	peak



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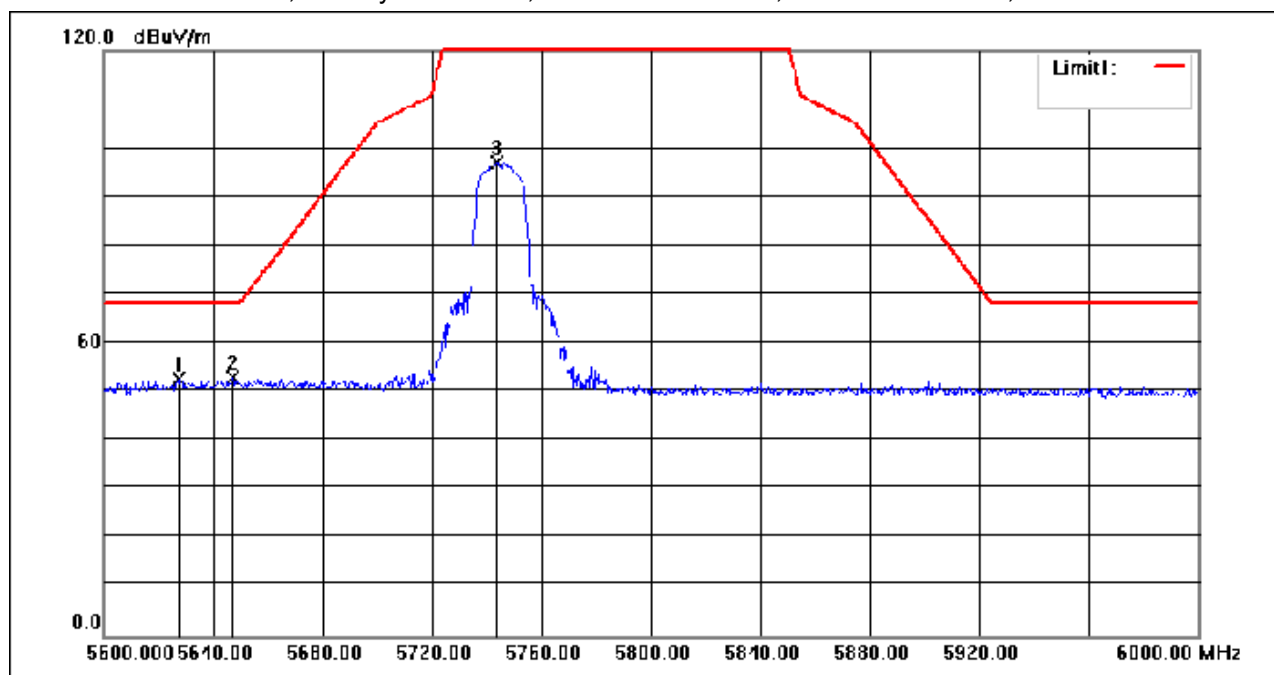
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Compliance Certification Services (Kunshan) Inc.

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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	5627.600	62.08	-9.53	52.55	68.20	-15.65	peak
2	5647.200	62.29	-9.47	52.82	68.20	-15.38	peak
3	5743.600	106.40	-9.27	97.13	135.00	-37.87	peak



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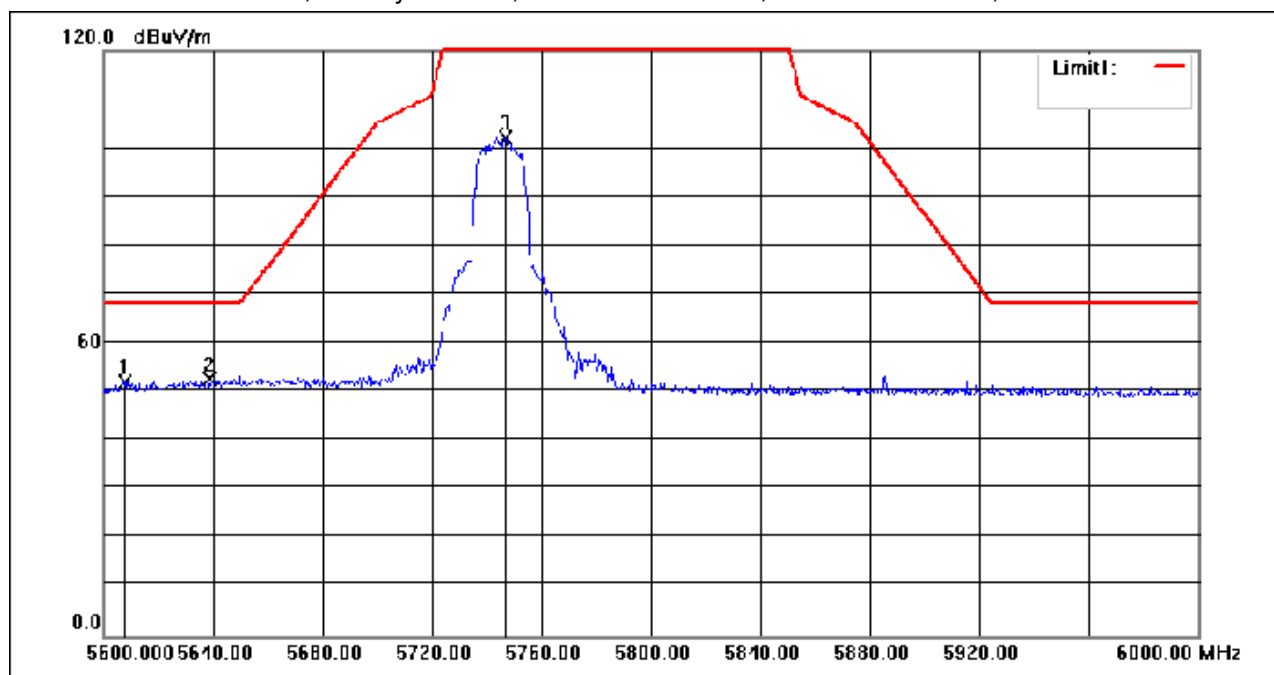
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Compliance Certification Services (Kunshan) Inc.

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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	5607.600	61.67	-9.59	52.08	68.20	-16.12	peak
2	5638.400	62.03	-9.50	52.53	68.20	-15.67	peak
3	5746.800	111.32	-9.28	102.04	135.00	-32.96	peak



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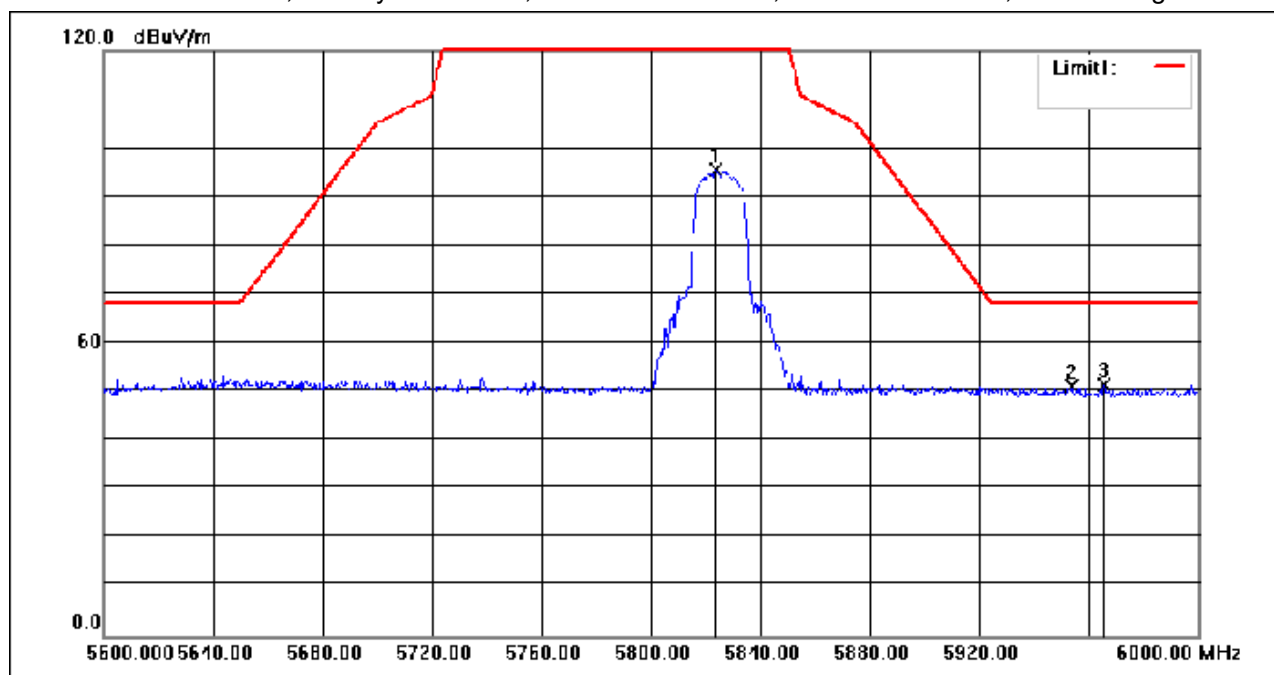
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Compliance Certification Services (Kunshan) Inc.

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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	5823.600	104.86	-9.40	95.46	135.00	-39.54	peak
2	5954.000	60.55	-9.29	51.26	68.20	-16.94	peak
3	5965.600	60.84	-9.27	51.57	68.20	-16.63	peak



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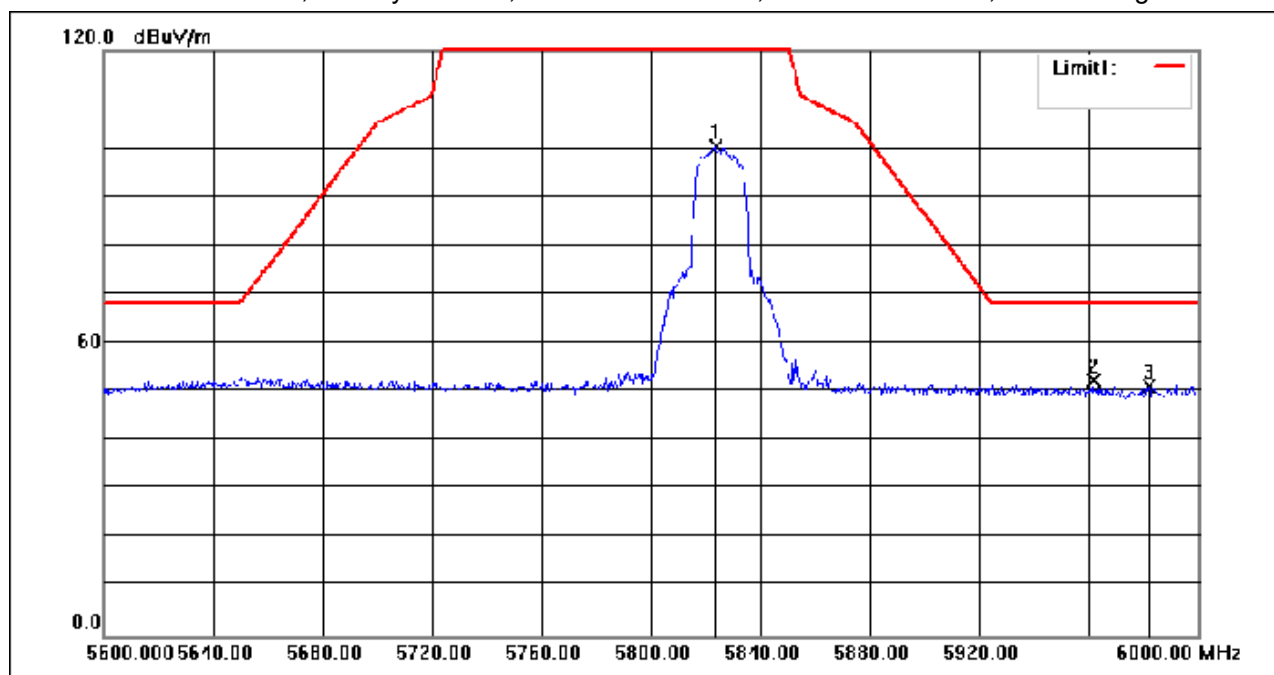
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Compliance Certification Services (Kunshan) Inc.

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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	5823.600	109.76	-9.40	100.36	135.00	-34.64	peak
2	5961.600	61.54	-9.28	52.26	68.20	-15.94	peak
3	5982.000	60.31	-9.25	51.06	68.20	-17.14	peak



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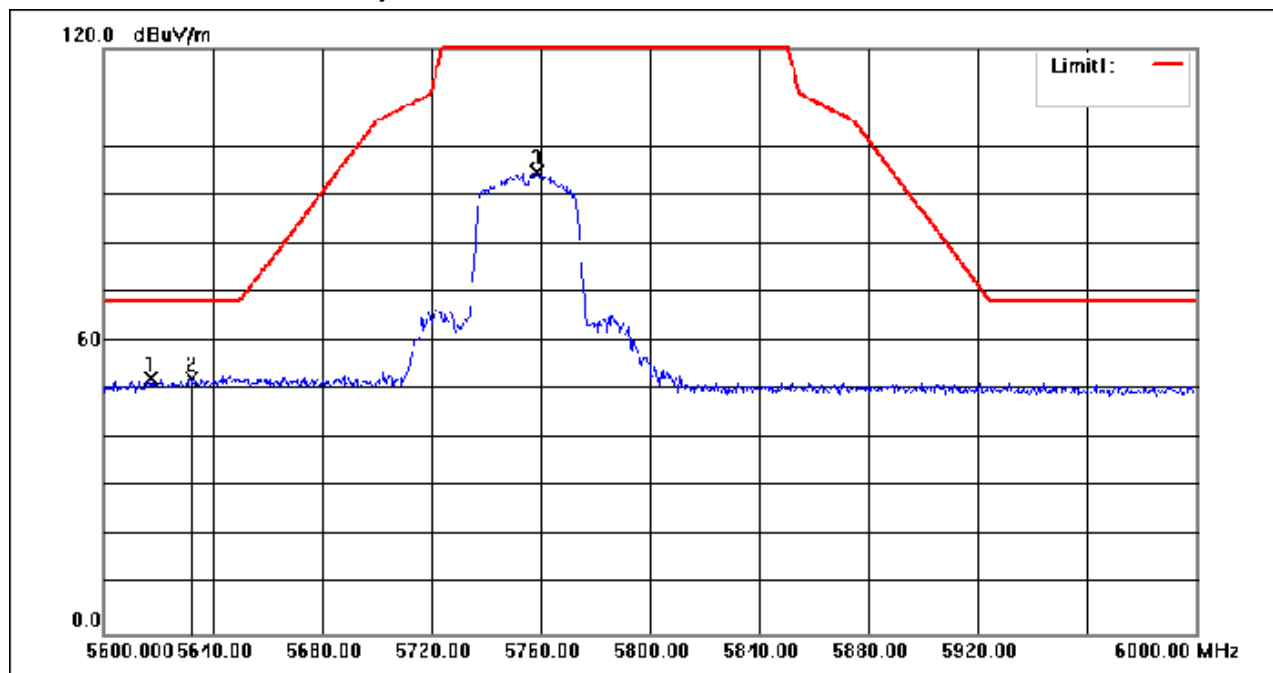
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5617.200	61.80	-9.56	52.24	68.20	-15.96	peak
2	5632.000	61.86	-9.52	52.34	68.20	-15.86	peak
3	5758.800	103.82	-9.30	94.52	135.00	-40.48	peak



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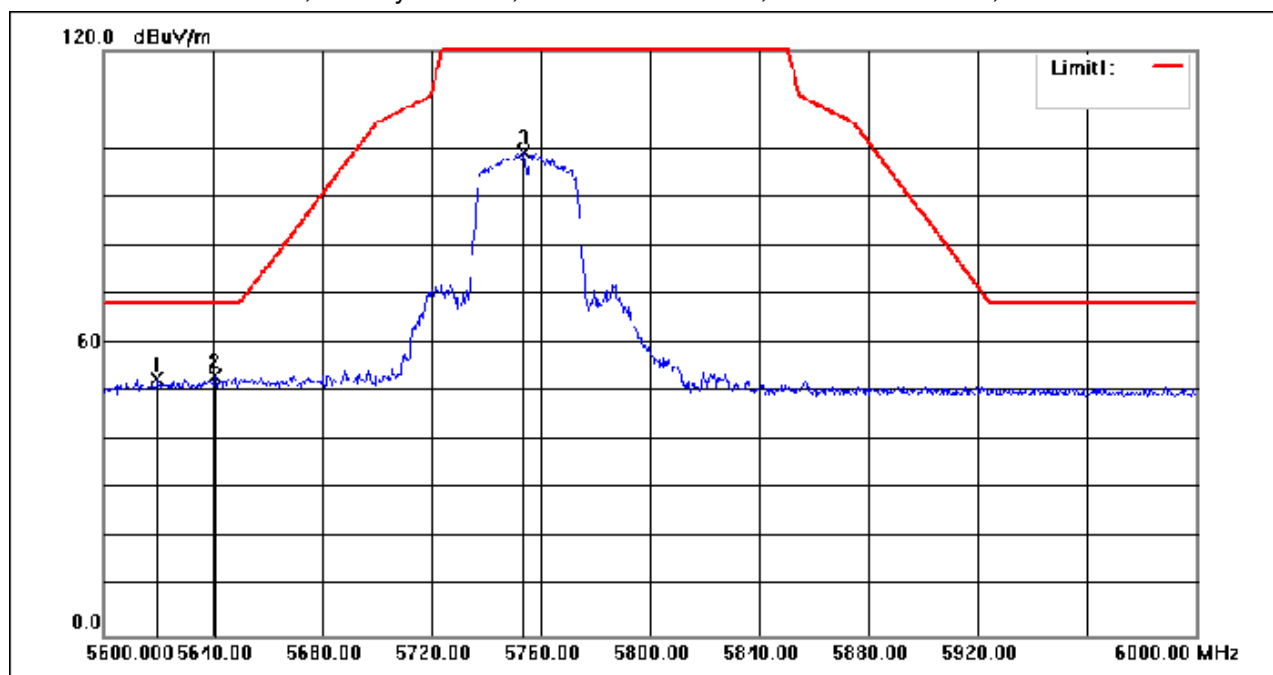
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Compliance Certification Services (Kunshan) Inc.

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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	5619.600	62.11	-9.56	52.55	68.20	-15.65	peak
2	5640.800	62.67	-9.49	53.18	68.20	-15.02	peak
3	5753.600	108.41	-9.29	99.12	135.00	-35.88	peak



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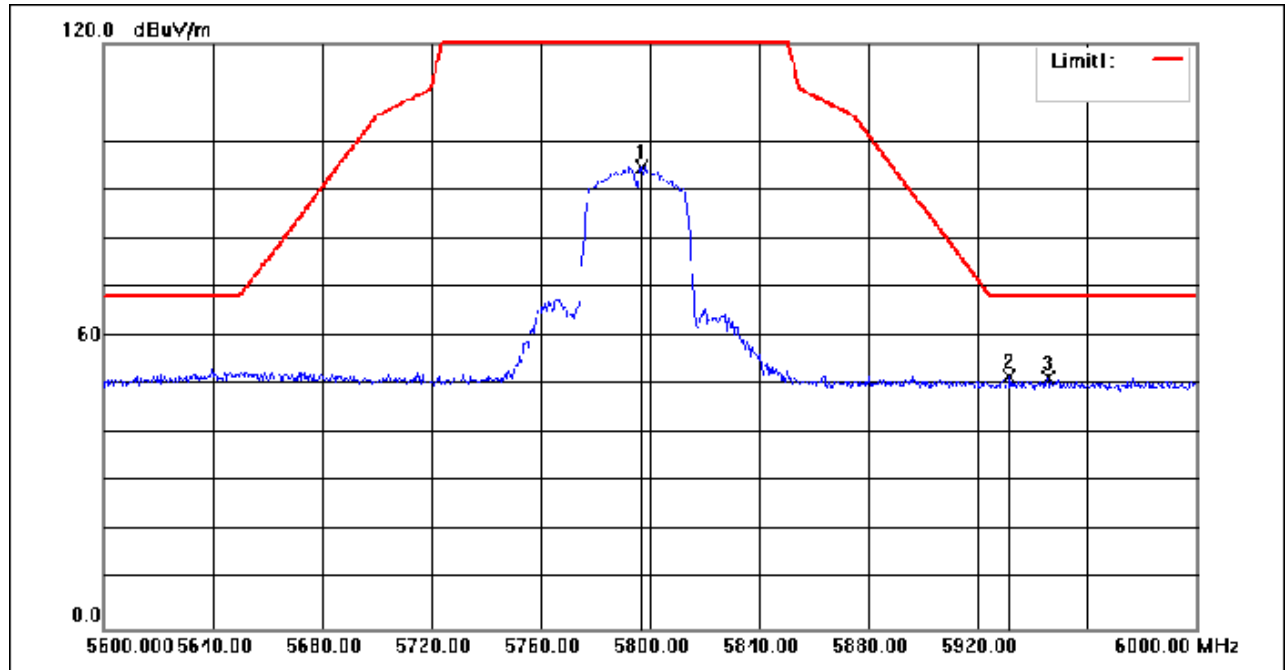
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Compliance Certification Services (Kunshan) Inc.

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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	5797.200	104.15	-9.35	94.80	135.00	-40.20	peak
2	5931.600	60.99	-9.32	51.67	68.20	-16.53	peak
3	5945.600	60.72	-9.30	51.42	68.20	-16.78	peak



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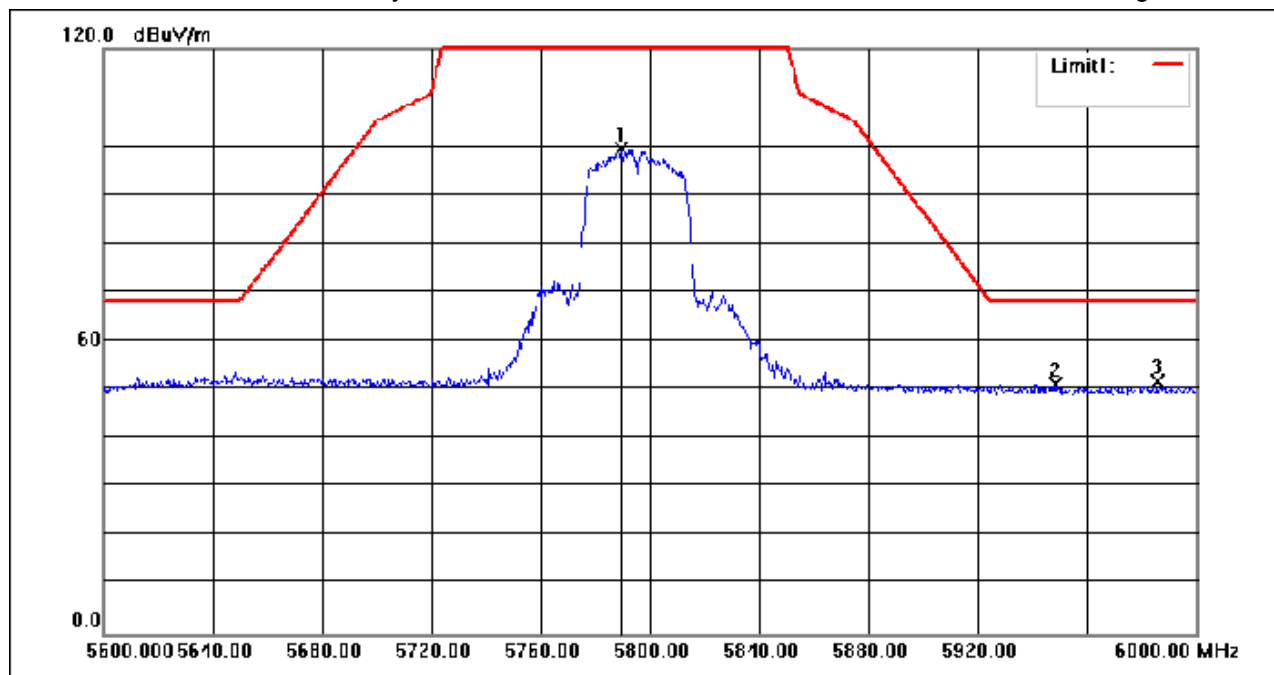
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5789.600	108.75	-9.35	99.40	135.00	-35.60	peak
2	5948.400	60.45	-9.29	51.16	68.20	-17.04	peak
3	5985.600	60.93	-9.25	51.68	68.20	-16.52	peak



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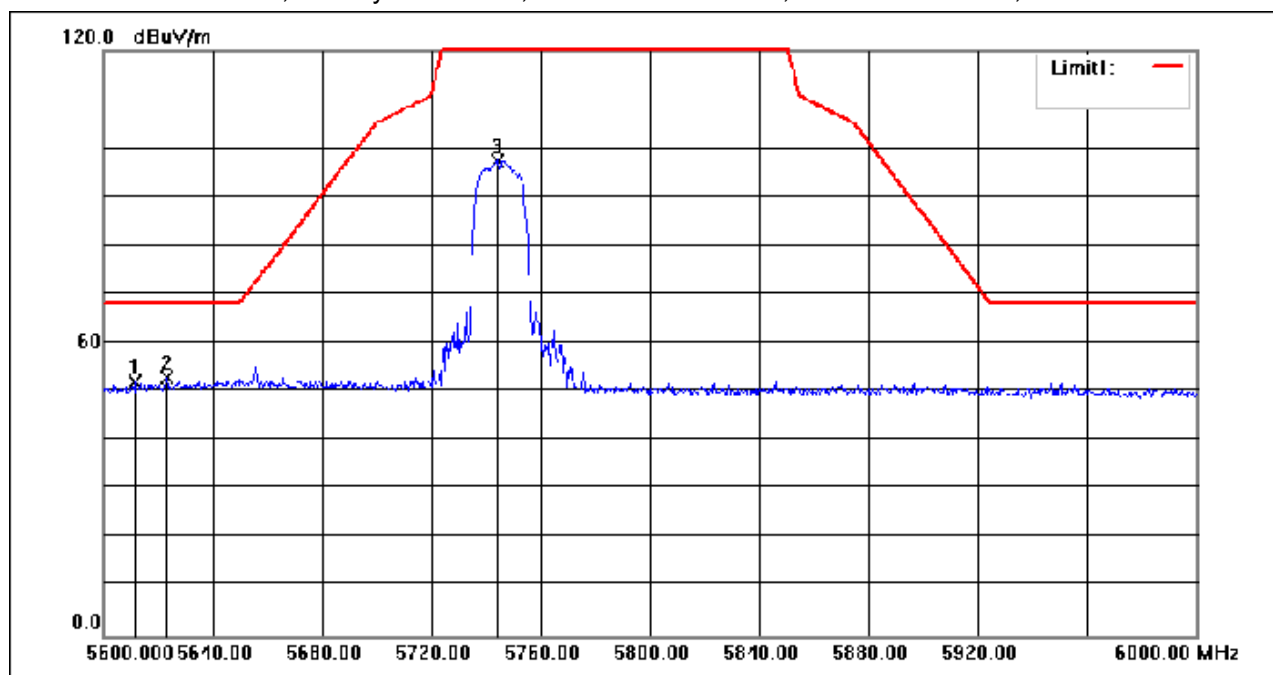
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5611.200	61.50	-9.58	51.92	68.20	-16.28	peak
2	5623.200	62.37	-9.55	52.82	68.20	-15.38	peak
3	5744.000	106.77	-9.27	97.50	135.00	-37.50	peak



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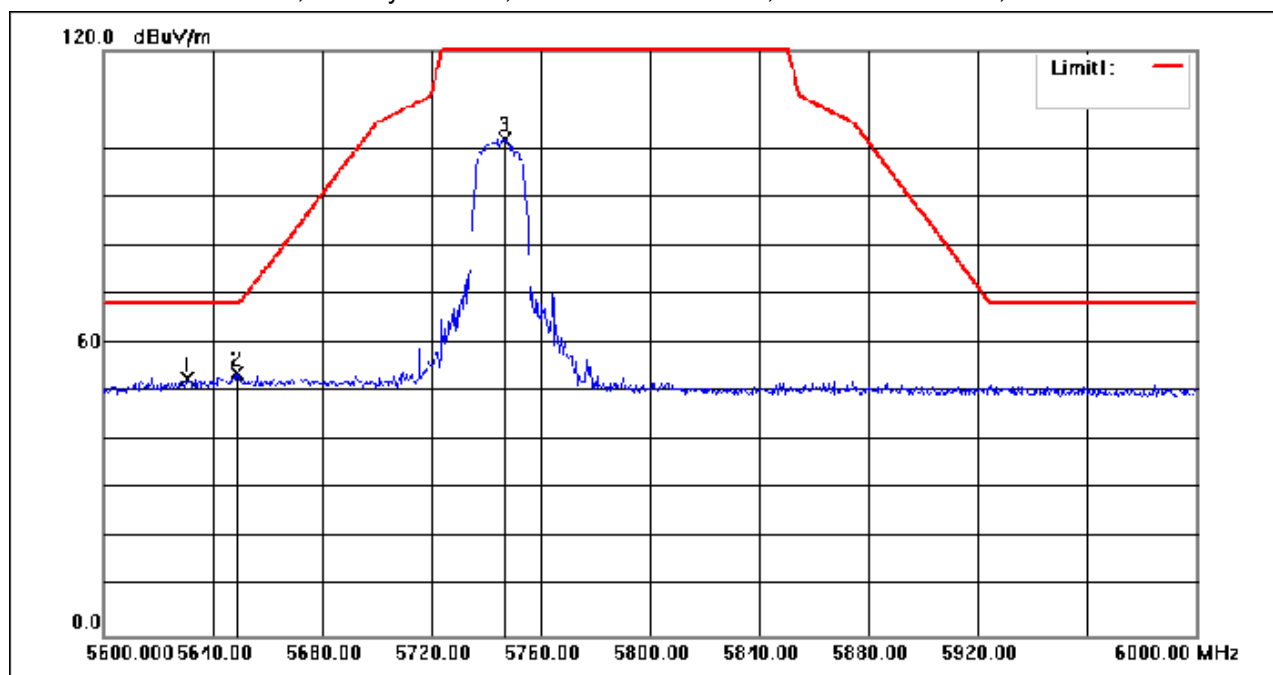
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Report No.: KSCR230400070804

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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	5630.400	62.18	-9.52	52.66	68.20	-15.54	peak
2	5648.800	63.45	-9.47	53.98	68.20	-14.22	peak
3	5746.800	111.22	-9.28	101.94	135.00	-33.06	peak



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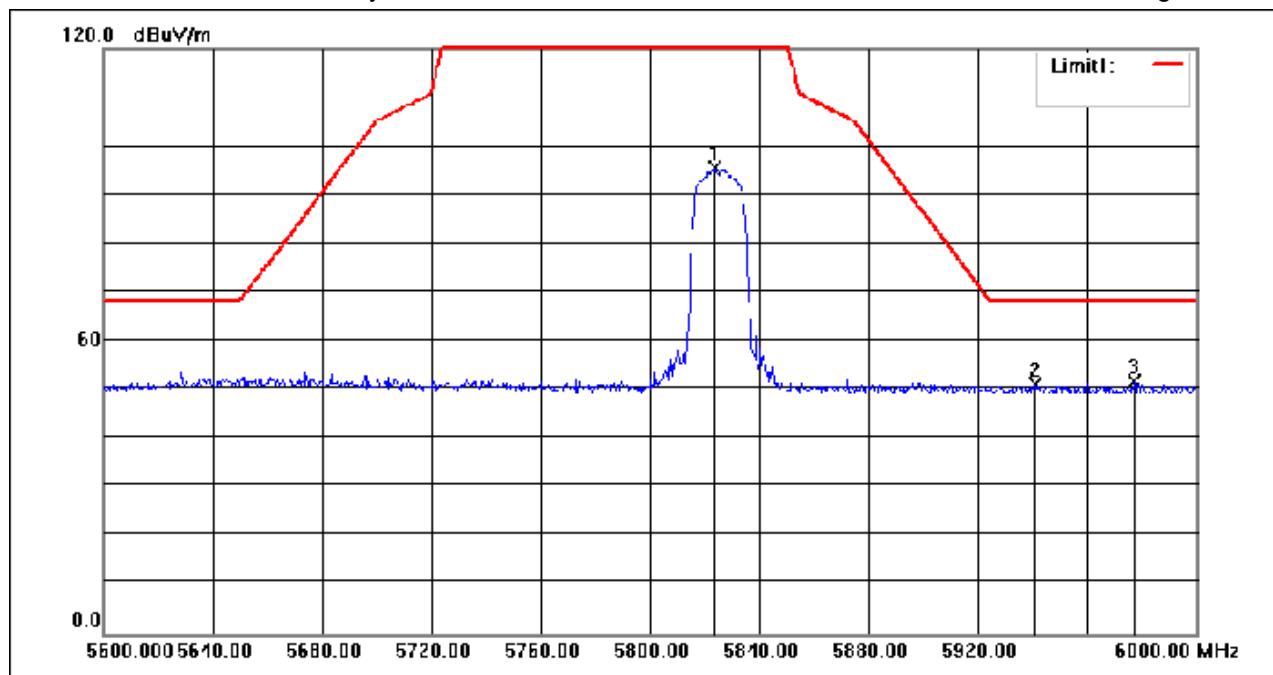
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Report No.: KSCR230400070804

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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	5823.600	104.92	-9.40	95.52	135.00	-39.48	peak
2	5941.200	60.45	-9.30	51.15	68.20	-17.05	peak
3	5977.200	61.02	-9.25	51.77	68.20	-16.43	peak



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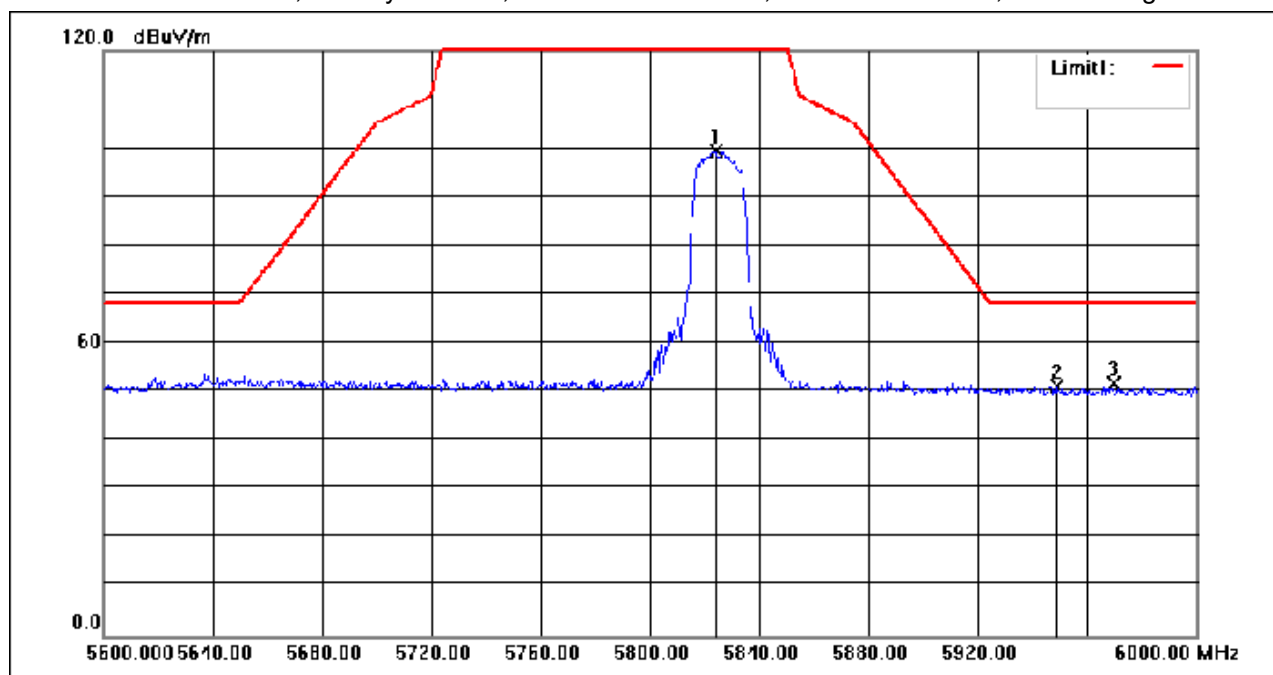
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5824.000	108.94	-9.40	99.54	135.00	-35.46	peak
2	5948.800	60.53	-9.29	51.24	68.20	-16.96	peak
3	5969.600	60.87	-9.26	51.61	68.20	-16.59	peak



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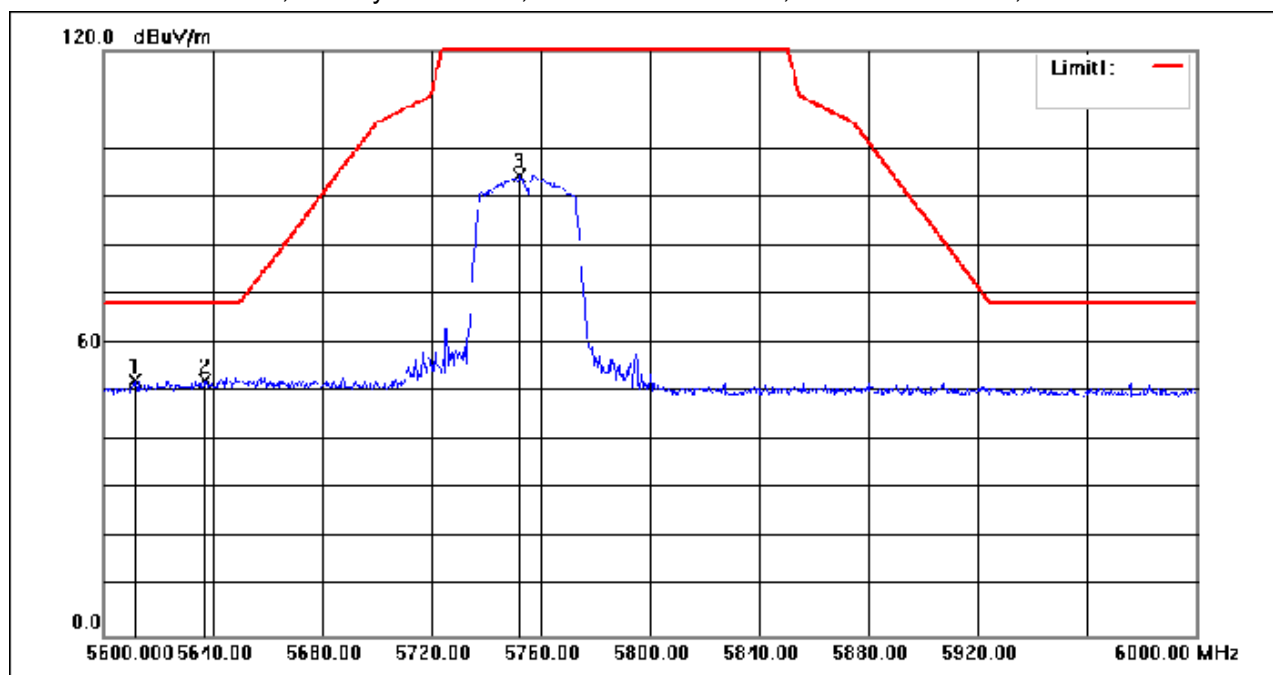
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5611.600	61.84	-9.58	52.26	68.20	-15.94	peak
2	5637.200	61.74	-9.50	52.24	68.20	-15.96	peak
3	5752.400	103.73	-9.29	94.44	135.00	-40.56	peak



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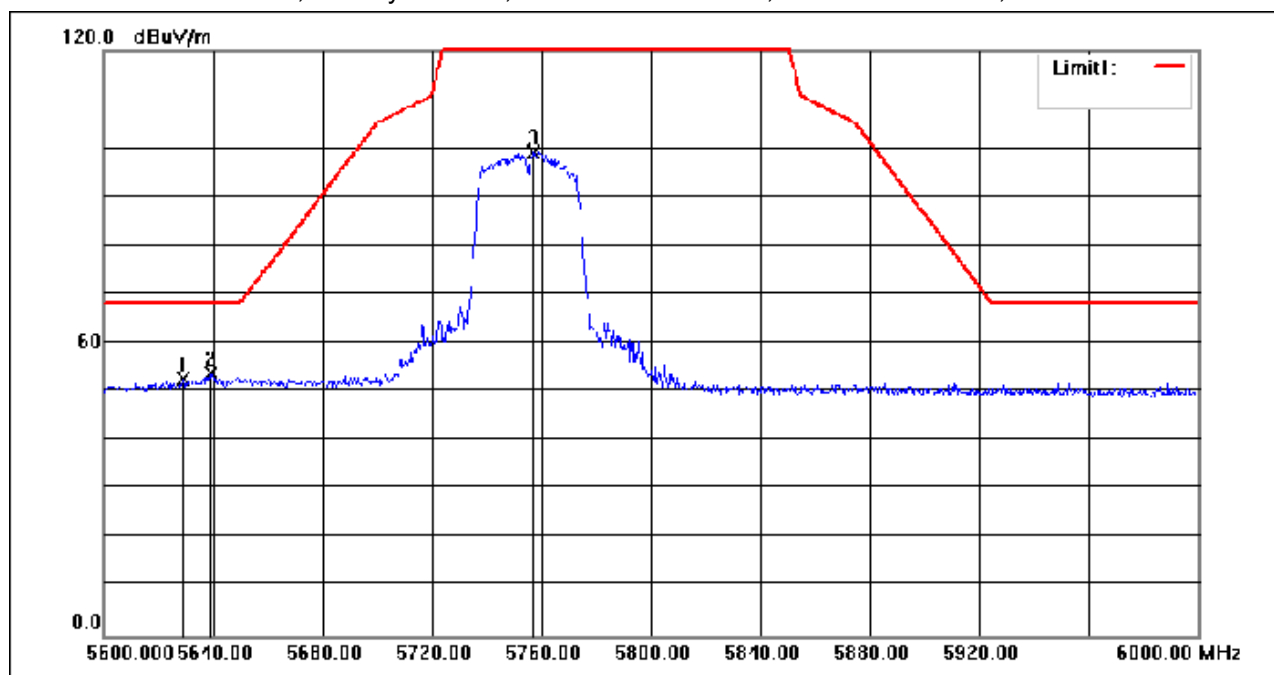
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	5629.200	62.24	-9.52	52.72	68.20	-15.48	peak
2	5639.200	63.22	-9.50	53.72	68.20	-14.48	peak
3	5757.200	108.42	-9.29	99.13	135.00	-35.87	peak



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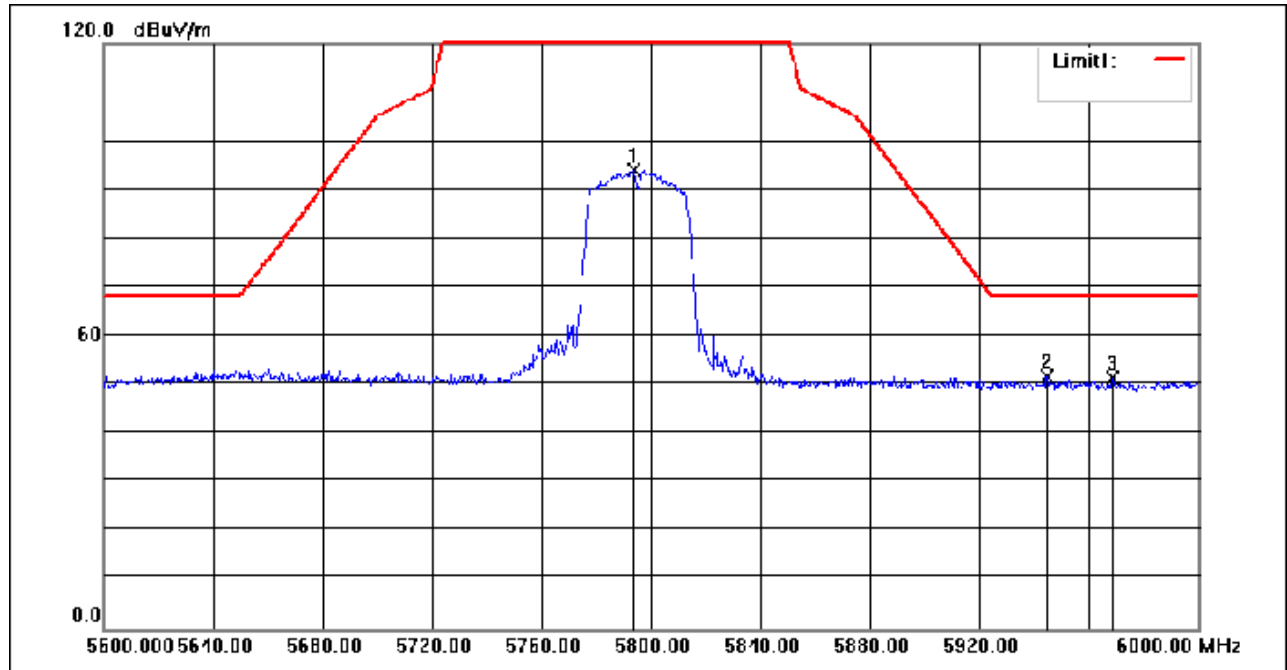
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5793.600	103.39	-9.35	94.04	135.00	-40.96	peak
2	5944.800	61.12	-9.30	51.82	68.20	-16.38	peak
3	5968.800	60.75	-9.27	51.48	68.20	-16.72	peak



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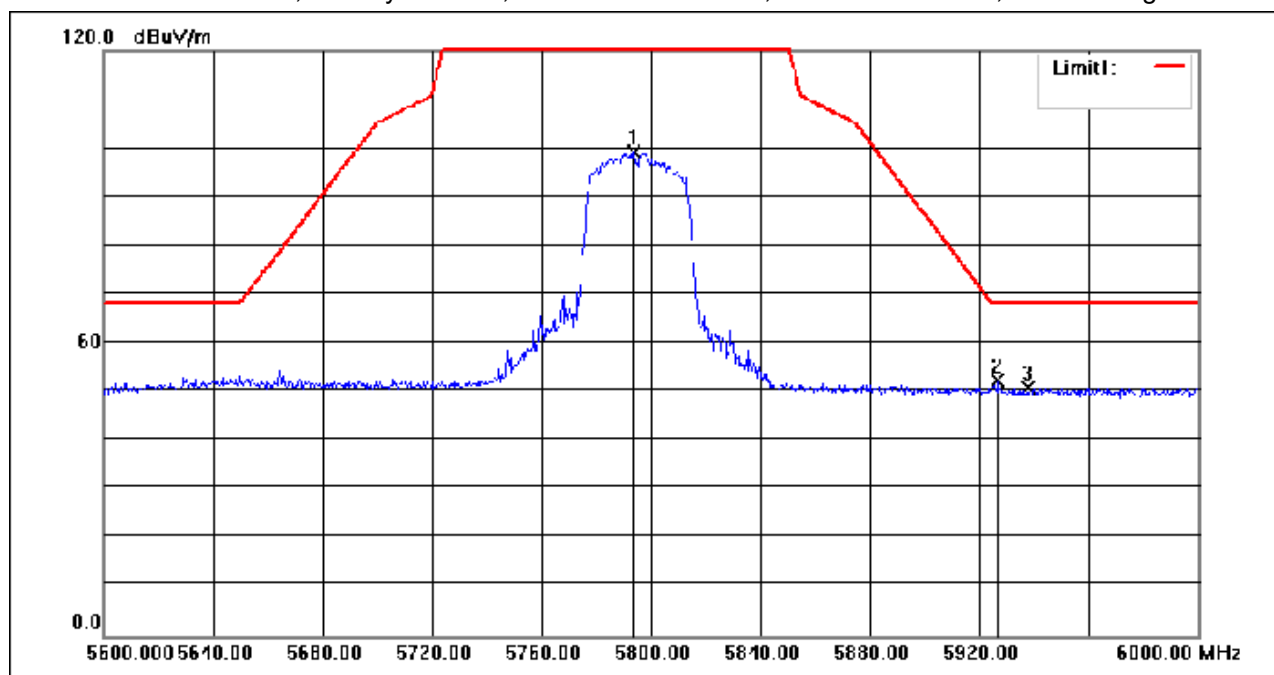
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5793.600	108.65	-9.35	99.30	135.00	-35.70	peak
2	5926.800	61.64	-9.33	52.31	68.20	-15.89	peak
3	5938.000	60.26	-9.31	50.95	68.20	-17.25	peak



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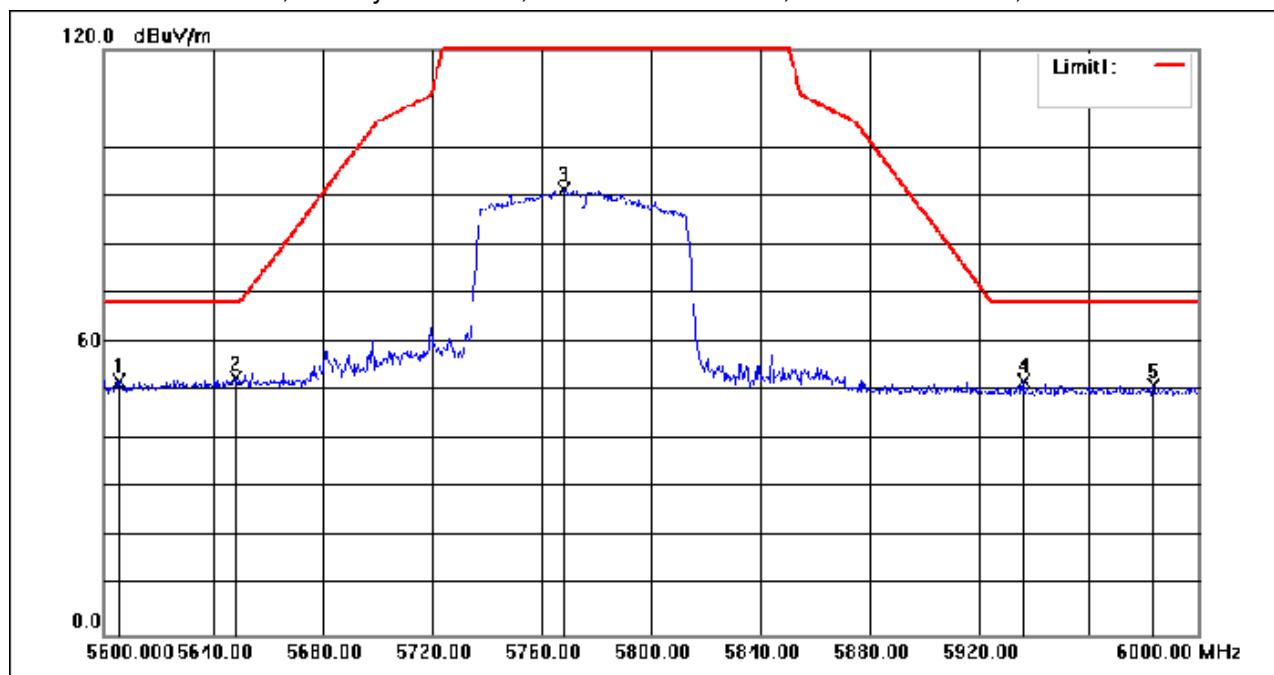
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5605.600	61.59	-9.60	51.99	68.20	-16.21	peak
2	5648.400	62.26	-9.47	52.79	68.20	-15.41	peak
3	5768.400	100.72	-9.31	91.41	135.00	-43.59	peak
4	5936.000	61.33	-9.32	52.01	68.20	-16.19	peak
5	5983.600	60.34	-9.24	51.10	68.20	-17.10	peak



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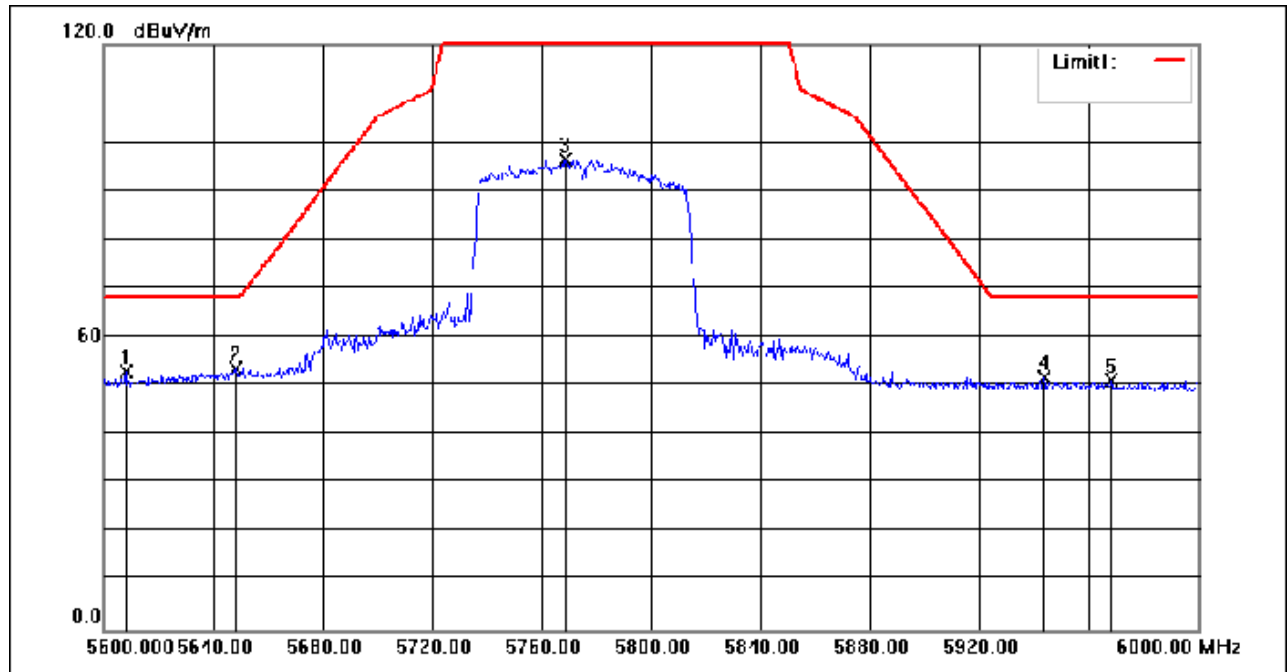
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5608.000	62.56	-9.58	52.98	68.20	-15.22	peak
2	5648.000	63.11	-9.47	53.64	68.20	-14.56	peak
3	5768.800	105.76	-9.31	96.45	135.00	-38.55	peak
4	5943.600	60.95	-9.31	51.64	68.20	-16.56	peak
5	5968.400	60.40	-9.27	51.13	68.20	-17.07	peak



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7.10 Frequency Stability

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

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 45.3 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.10.3 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 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C

Humidity: 44.2 % 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 continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	02	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

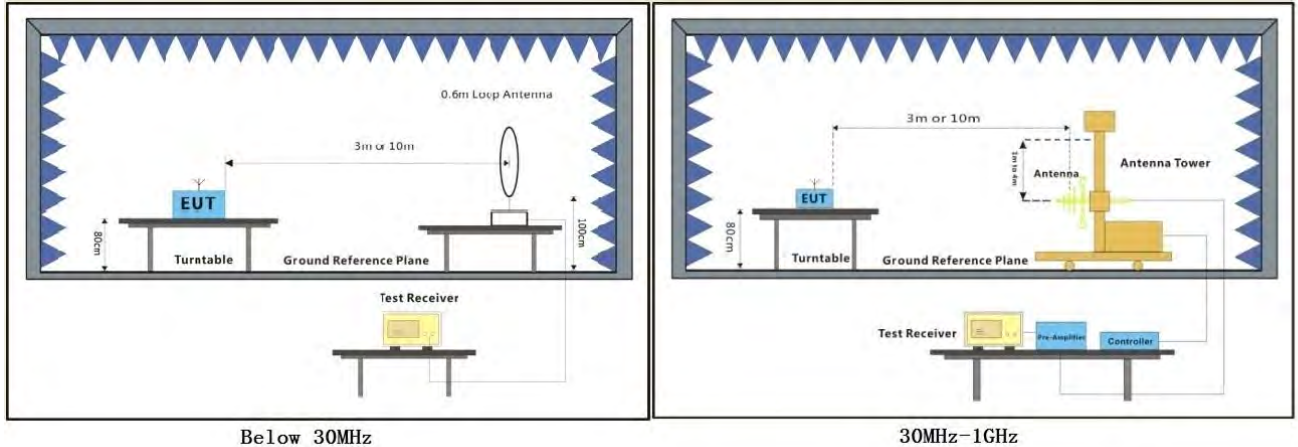


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7.11.3 Test Setup Diagram



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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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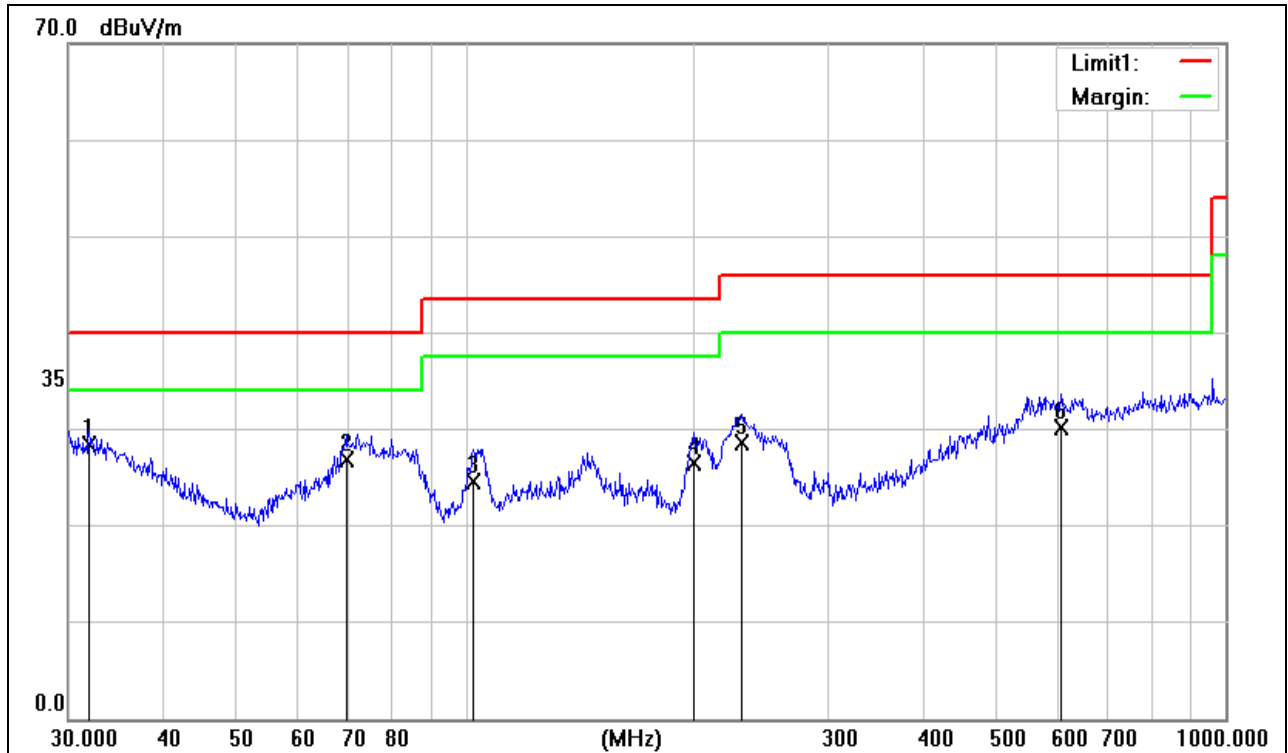
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Test Mode: 01; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.9546	3.27	25.22	28.49	40.00	-11.51	100	338	QP
2	69.6005	11.13	15.69	26.82	40.00	-13.18	200	67	QP
3	102.3597	7.05	17.50	24.55	43.50	-18.95	100	340	QP
4	199.2855	9.68	16.76	26.44	43.50	-17.06	200	71	QP
5	230.9068	10.98	17.64	28.62	46.00	-17.38	100	77	QP
6	607.7867	3.09	27.17	30.26	46.00	-15.74	100	336	QP



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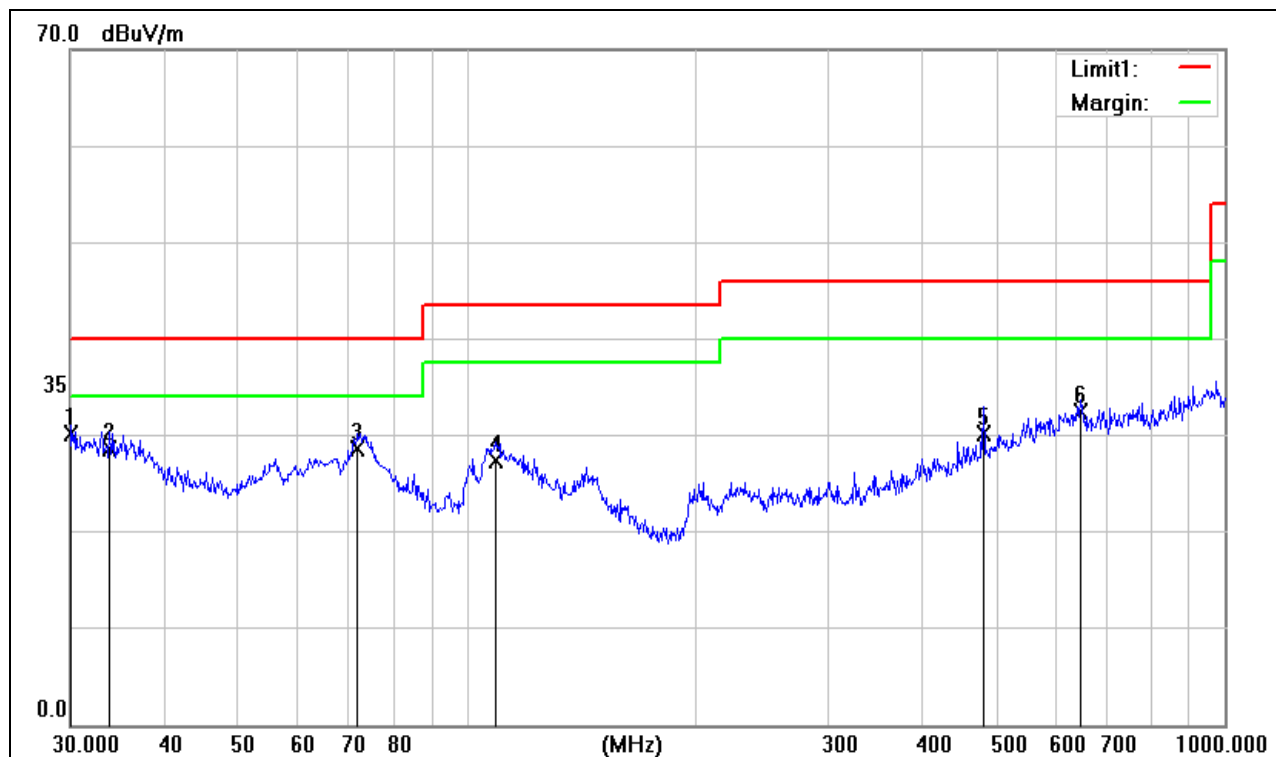
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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.1054	4.94	25.31	30.25	40.00	-9.75	100	211	QP
2	33.7986	3.66	24.97	28.63	40.00	-11.37	100	190	QP
3	71.8320	12.96	15.68	28.64	40.00	-11.36	100	280	QP
4	109.0286	9.06	18.39	27.45	43.50	-16.05	100	55	QP
5	480.5276	5.04	25.22	30.26	46.00	-15.74	100	52	QP
6	645.1195	4.71	27.83	32.54	46.00	-13.46	100	185	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2304000708AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2304000708AT



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10 Appendix

Power level setting using in test:

Channel	802.11a	802.11n(HT20)	802.11ac(VHT20)
	Ant 1	Ant 1	Ant 1
36	15	15	15
40	15	15	15
48	15	15	15
149	16	16	16
157	16	16	16
165	15	15	15
Channel	802.11n(HT40)	802.11ac(VHT40)	
	Ant 1	Ant 1	
38	15	15	
46	15	15	
151	16	16	
159	16	16	
Channel	802.11ac(VHT80)		
	Ant 1		
42	15		
155	16		



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1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

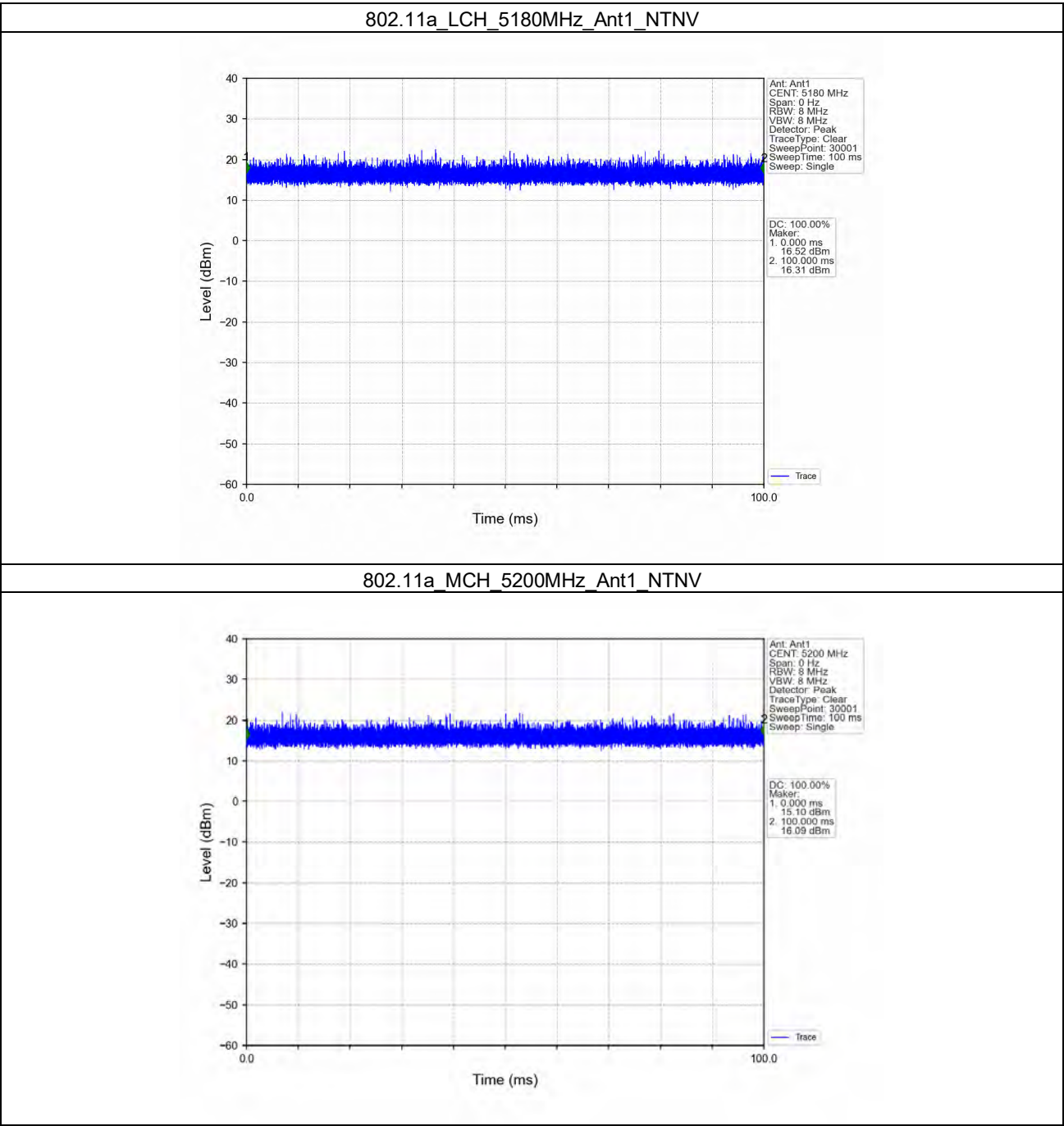
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
		5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
		5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT80)	SISO	5210	100.000	100.000	100.00	0.00	0.00
		5775	100.000	100.000	100.00	0.00	0.00



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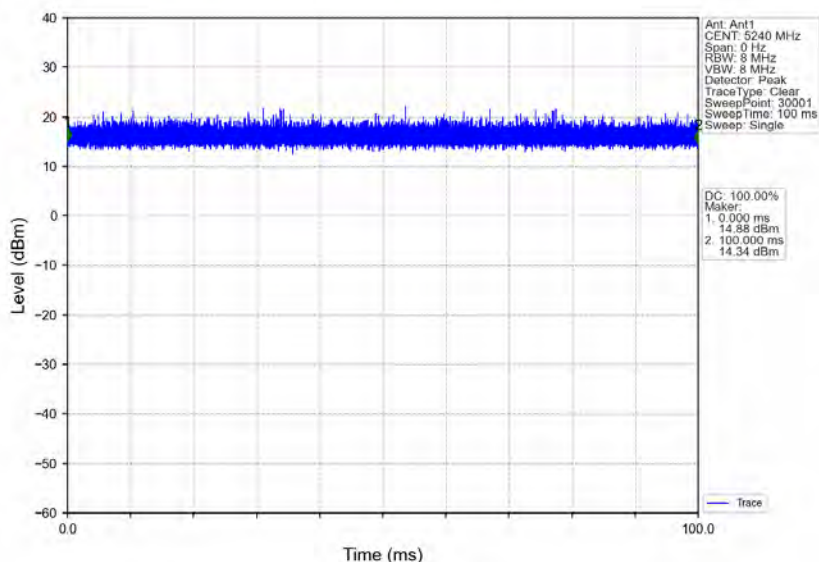
1.1.2 Test Graph



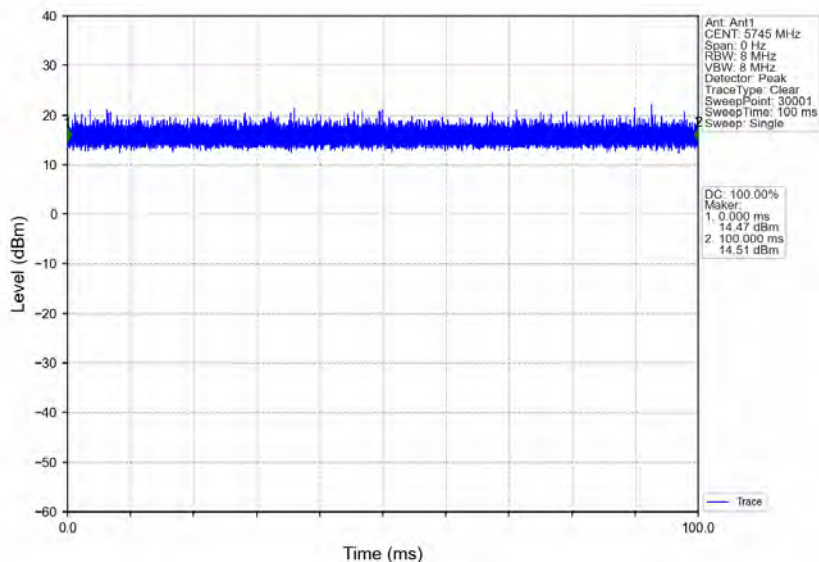
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802.11a HCH 5240MHz Ant1 NTN



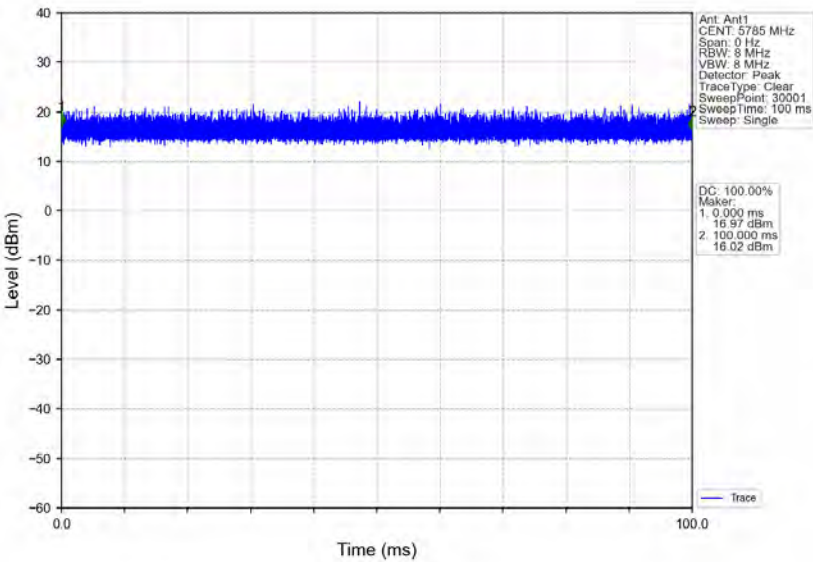
802.11a LCH 5745MHz Ant1 NTN



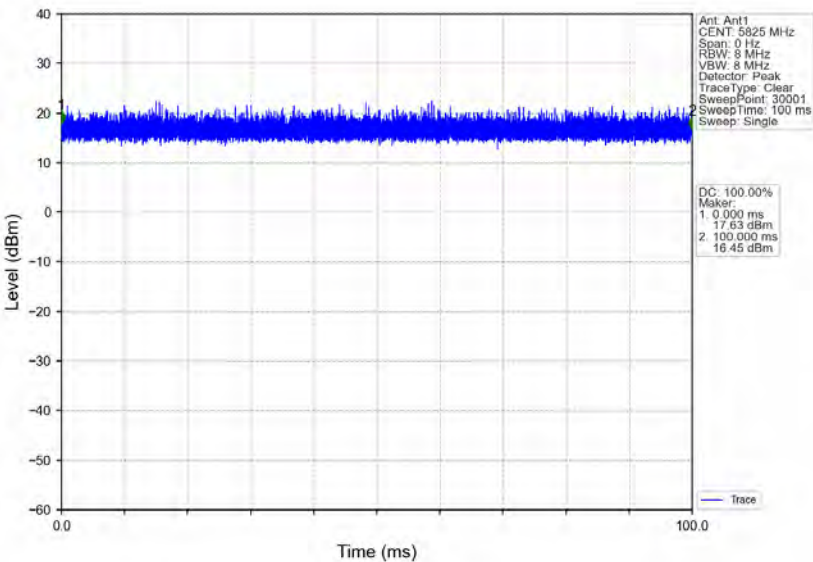
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802.11a MCH 5785MHz Ant1 NTN



802.11a HCH 5825MHz Ant1 NTN

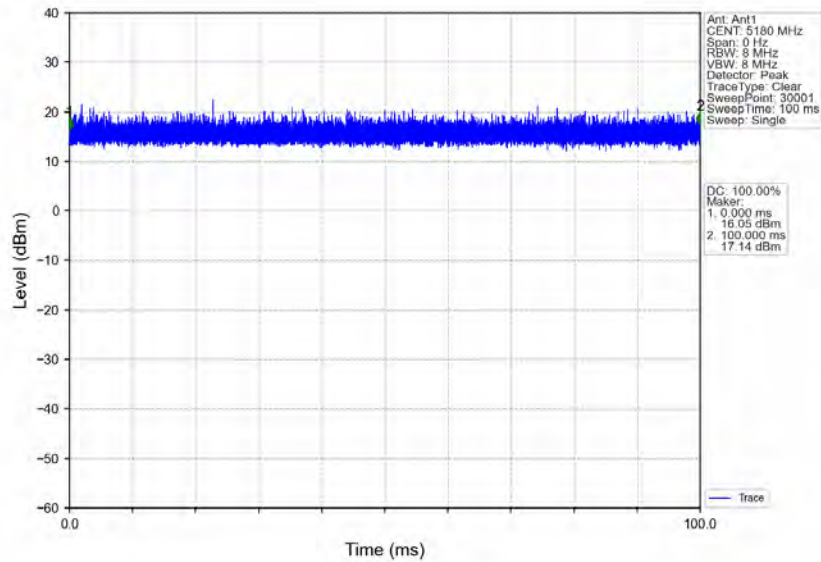


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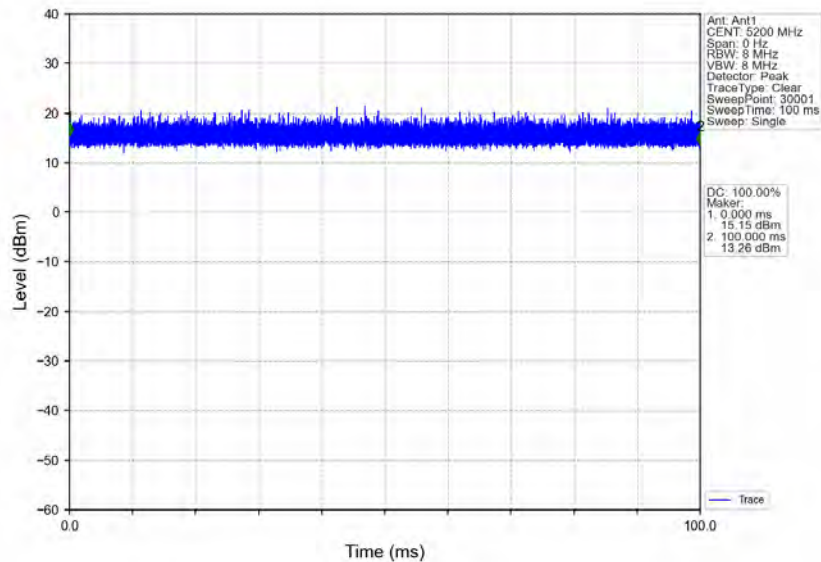
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802.11n(HT20) LCH 5180MHz Ant1 NTNV



802.11n(HT20) MCH 5200MHz Ant1 NTNV

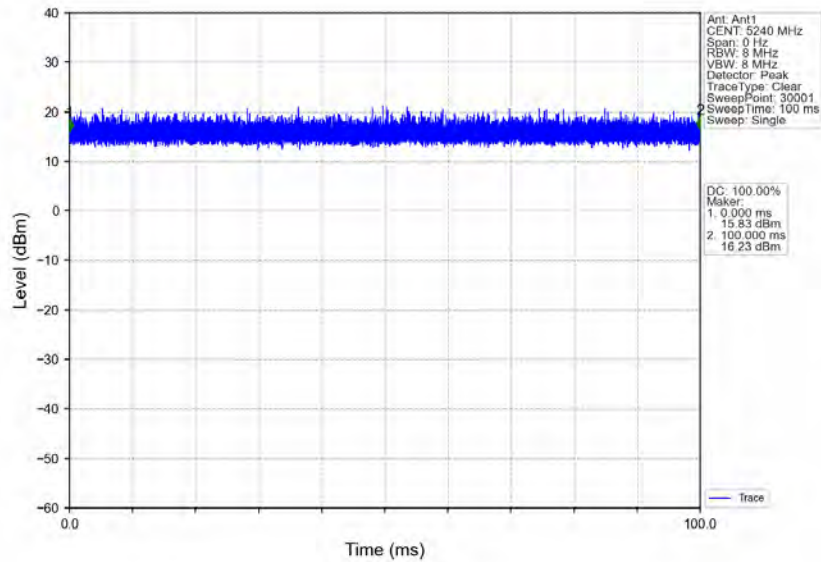


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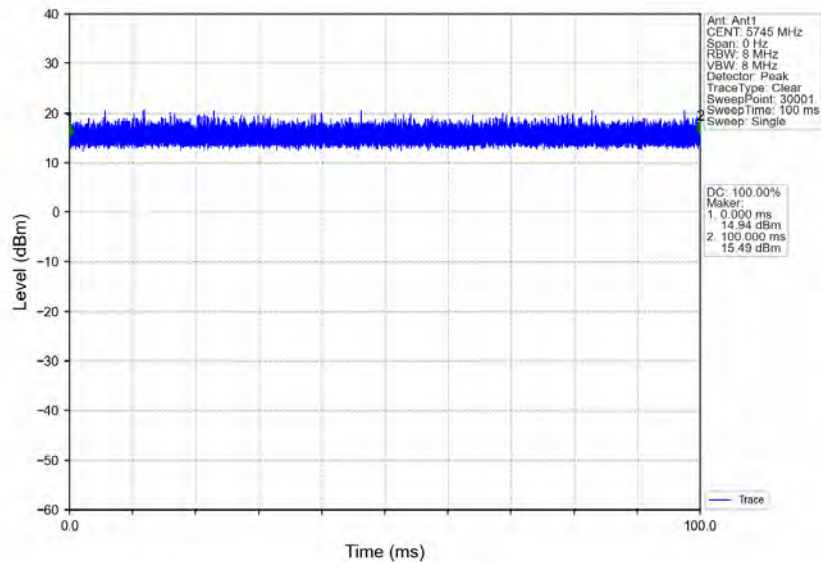
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802.11n(HT20) HCH 5240MHz Ant1 NTN



802.11n(HT20) LCH 5745MHz Ant1 NTN

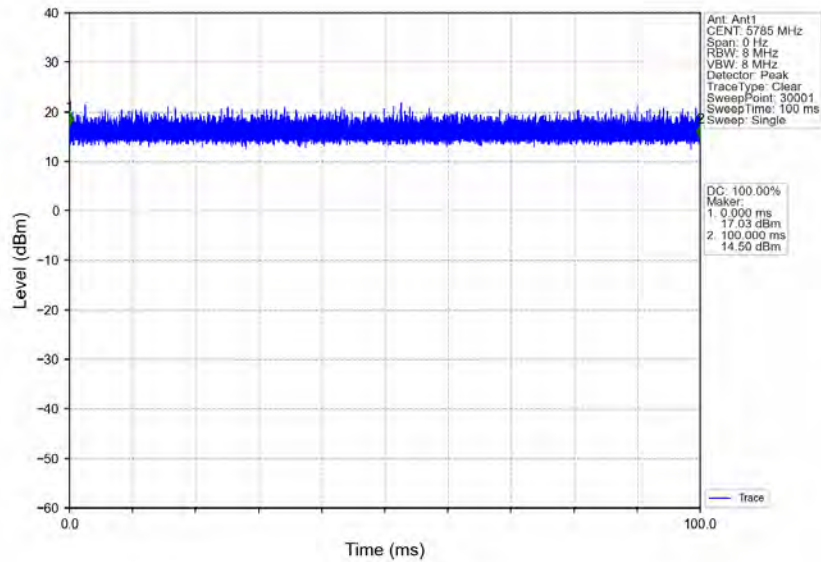


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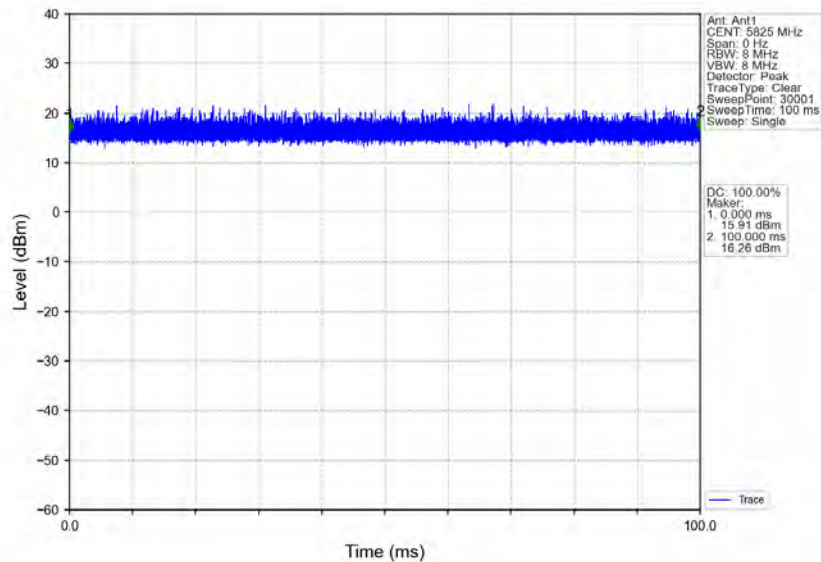
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802.11n(HT20) MCH 5785MHz Ant1 NTN



802.11n(HT20) HCH 5825MHz Ant1 NTN

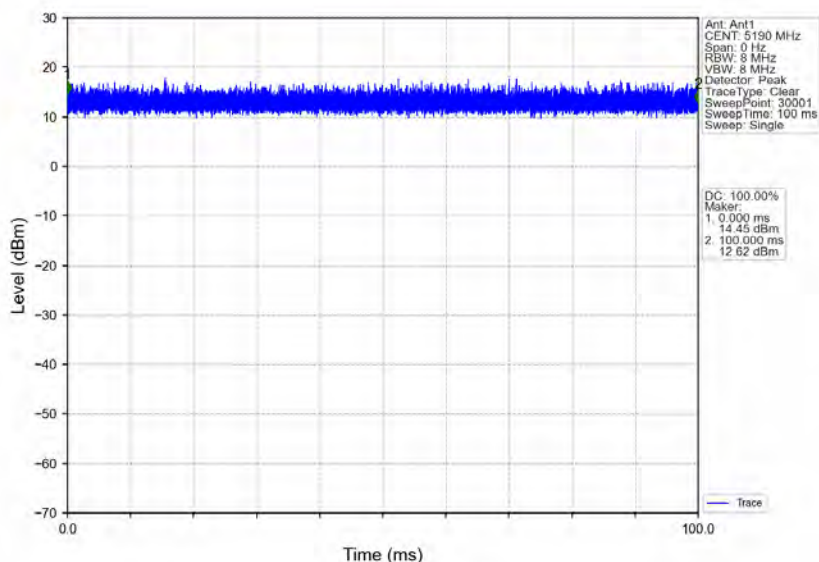


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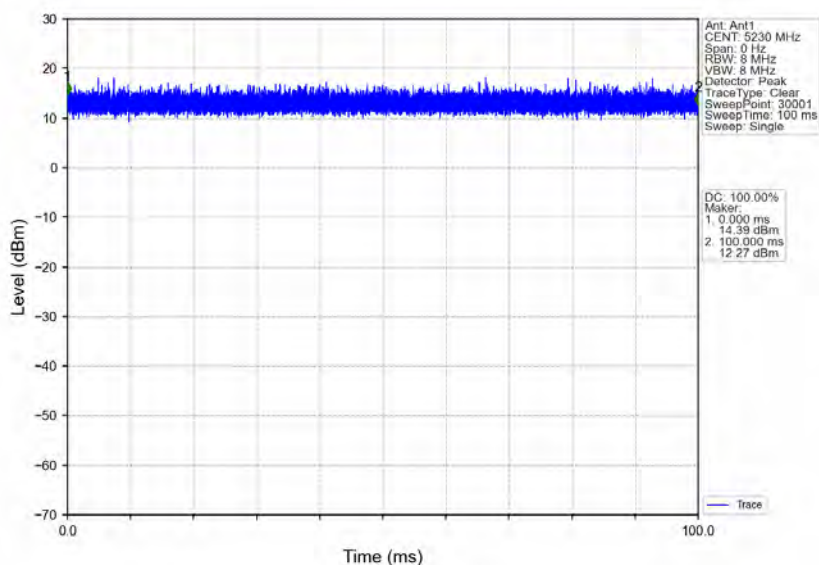
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802.11n(HT40) LCH 5190MHz Ant1 NTNV



802.11n(HT40) HCH 5230MHz Ant1 NTNV

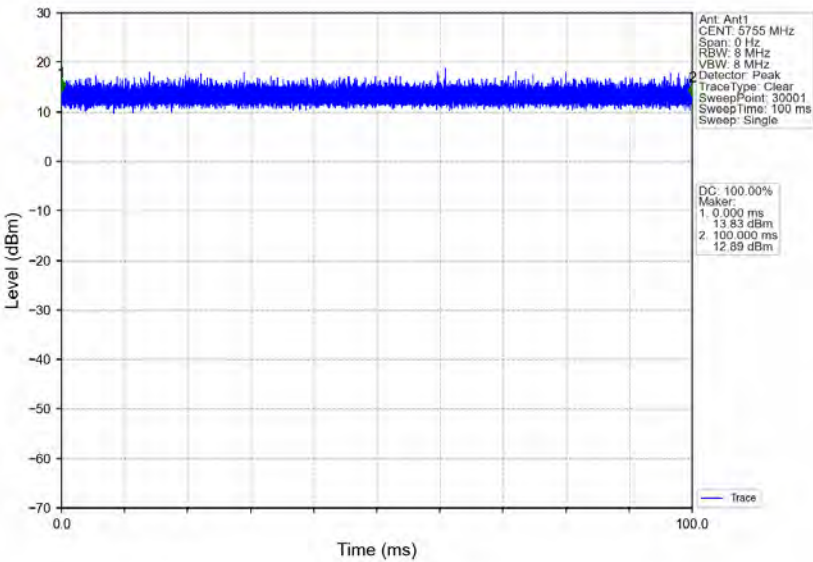


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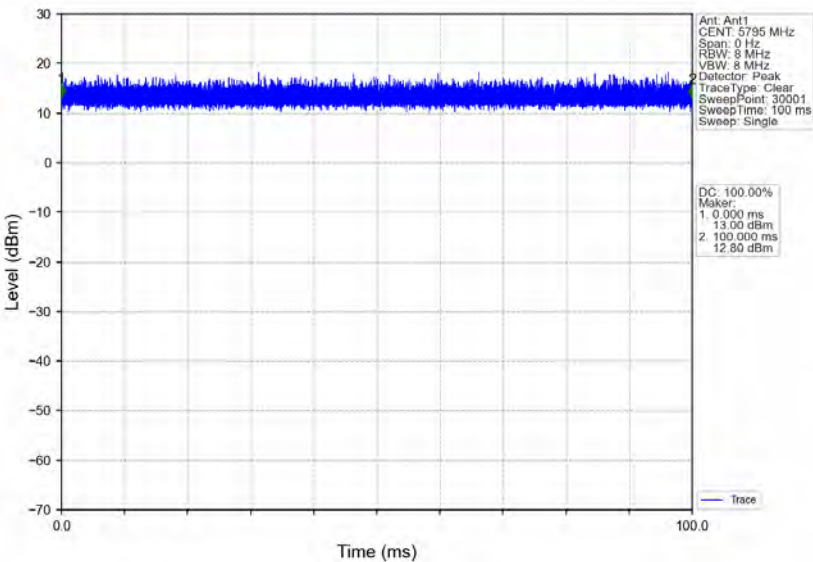
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802.11n(HT40) LCH 5755MHz Ant1 NTNV



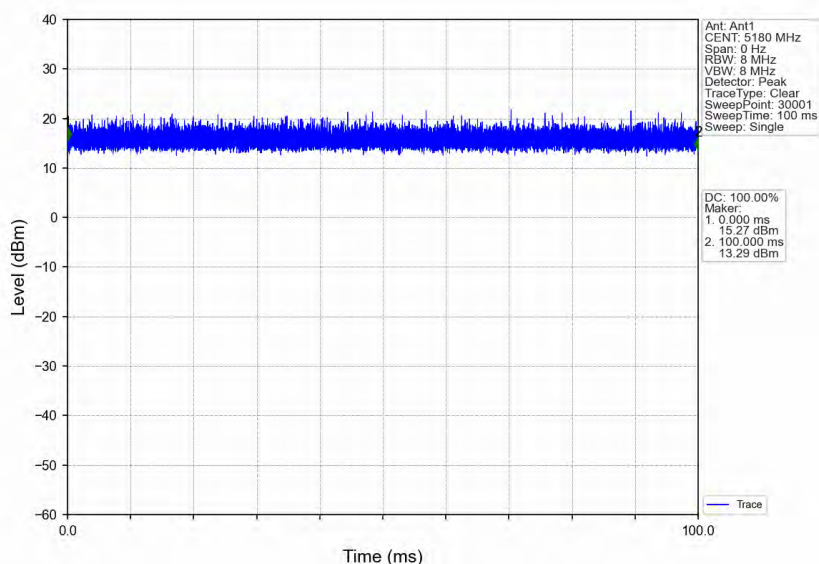
802.11n(HT40) HCH 5795MHz Ant1 NTNV



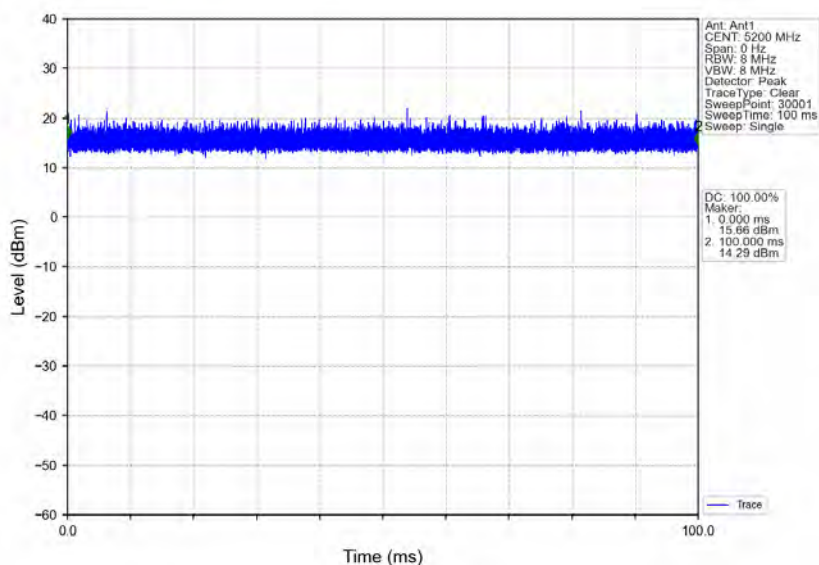
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802.11ac(VHT20) LCH 5180MHz Ant1 NTV



802.11ac(VHT20) MCH 5200MHz Ant1 NTV

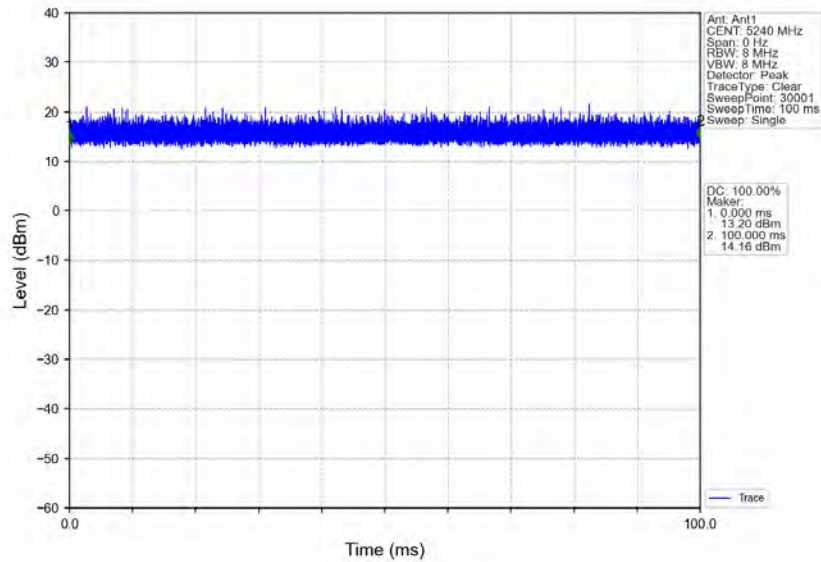


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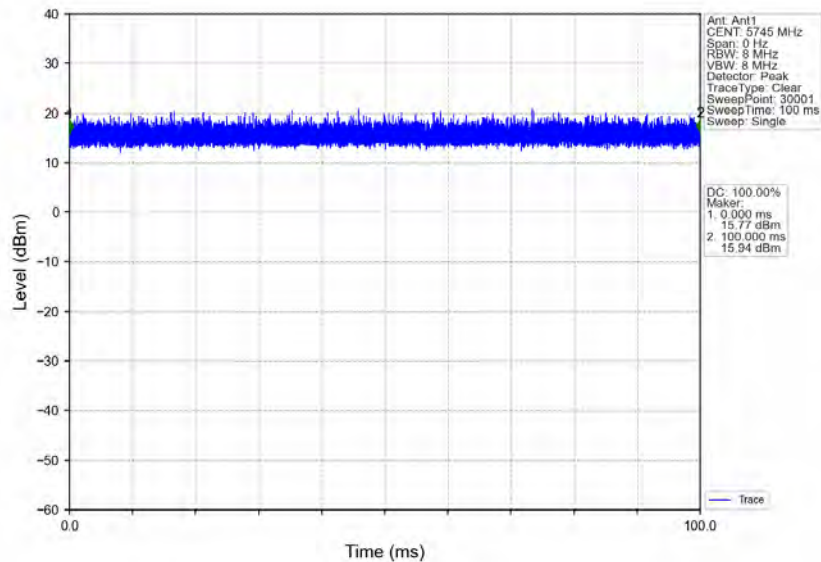
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802.11ac(VHT20) HCH 5240MHz Ant1 NTV



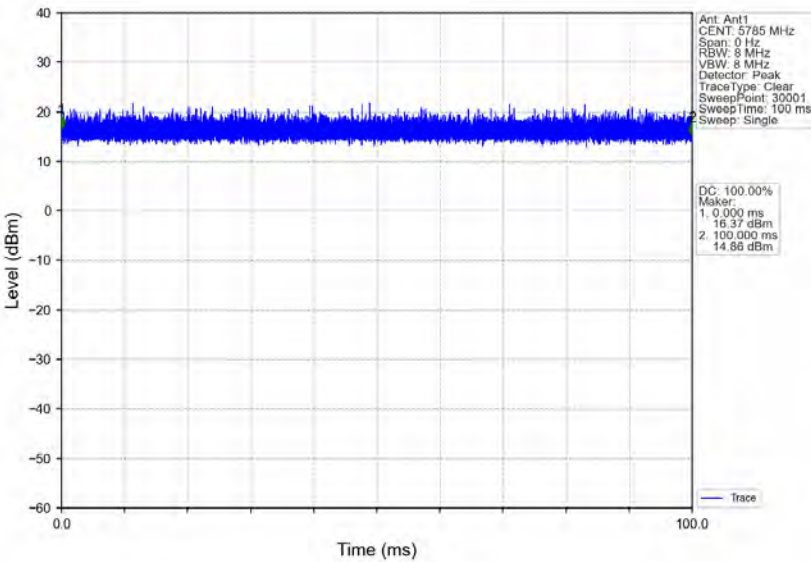
802.11ac(VHT20) LCH 5745MHz Ant1 NTV



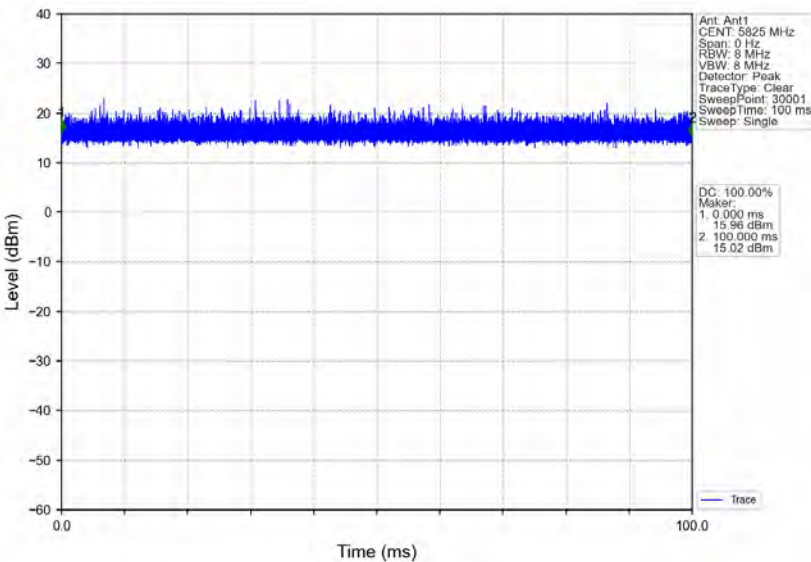
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802.11ac(VHT20) MCH 5785MHz Ant1 NTV



802.11ac(VHT20) HCH 5825MHz Ant1 NTV

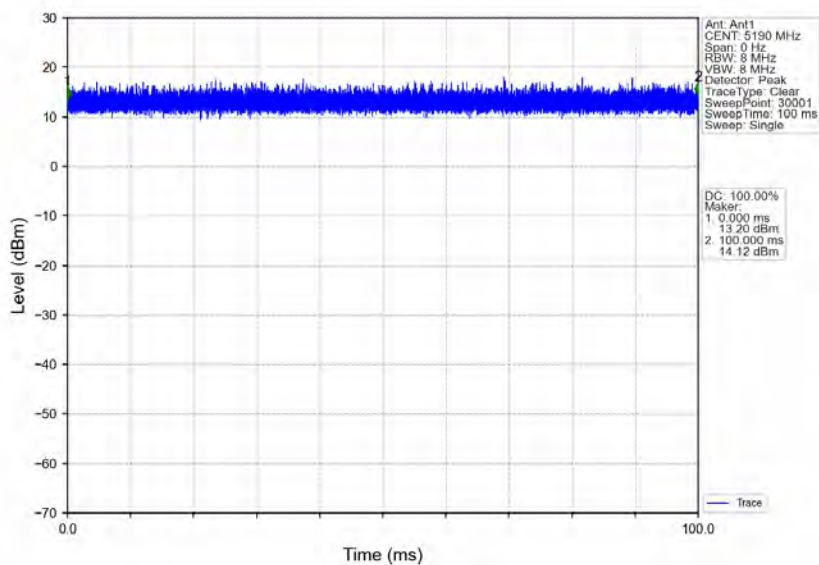


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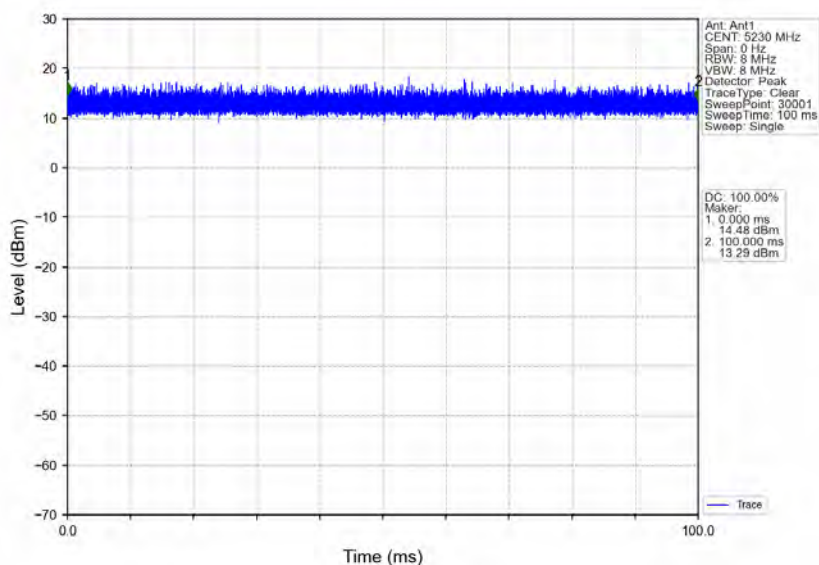
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802.11ac(VHT40) LCH 5190MHz Ant1 NTV



802.11ac(VHT40) HCH 5230MHz Ant1 NTV

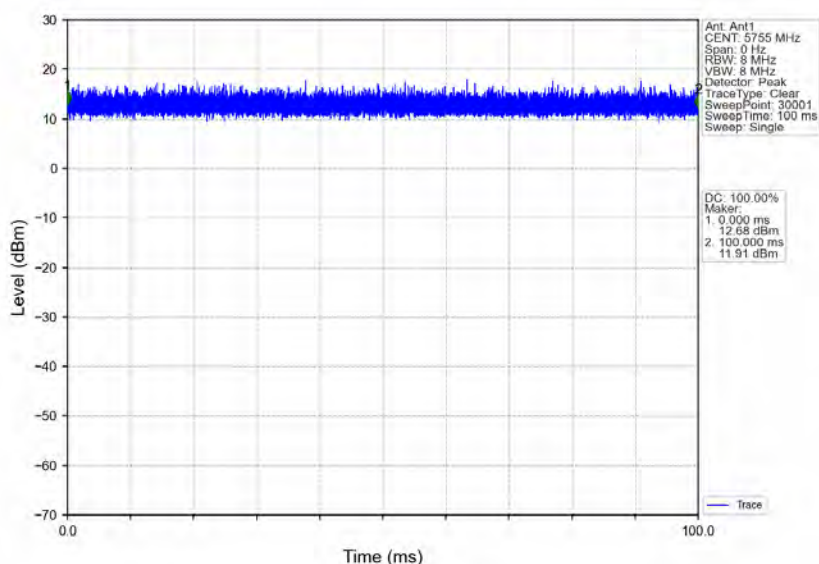


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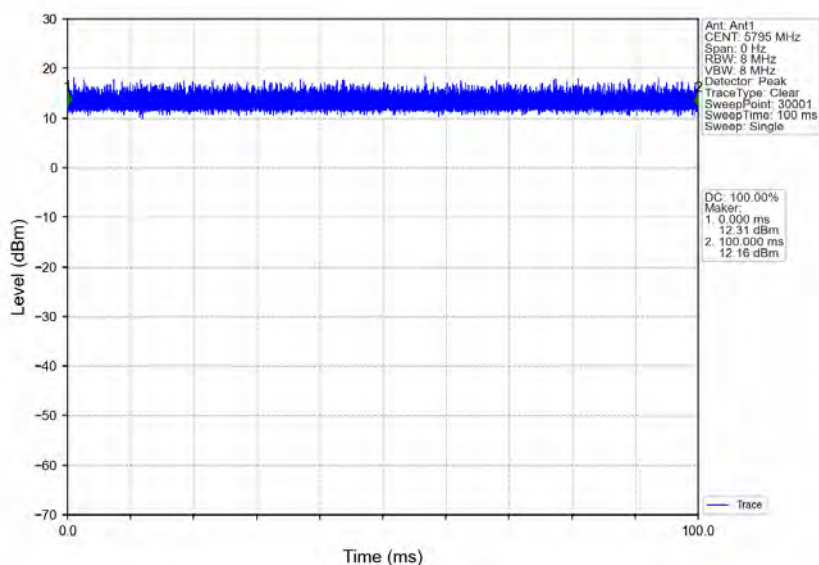
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802.11ac(VHT40) LCH 5755MHz Ant1 NTV



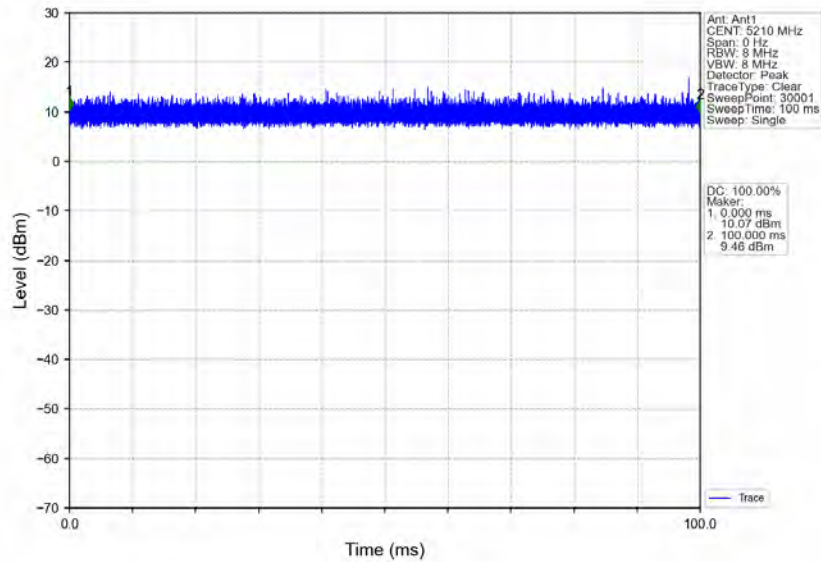
802.11ac(VHT40) HCH 5795MHz Ant1 NTV



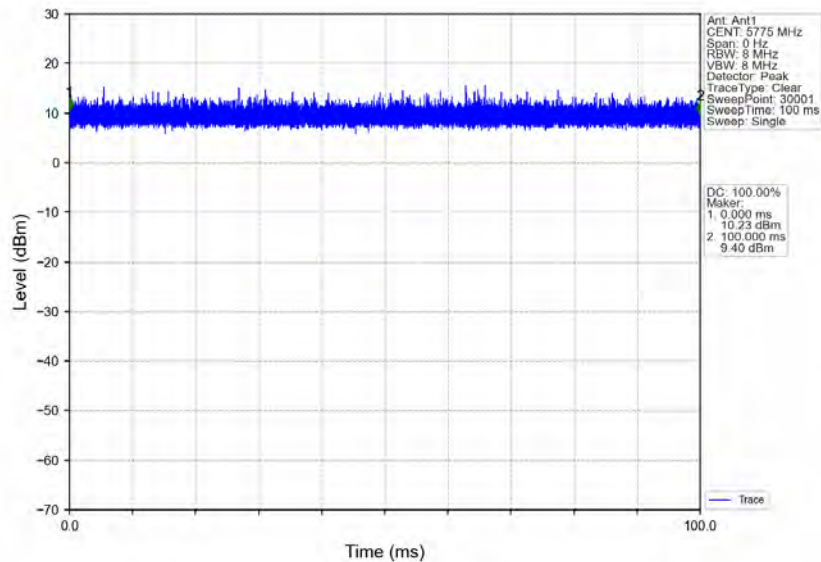
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802.11ac(VHT80) MCH 5210MHz Ant1 NTV



802.11ac(VHT80) MCH 5775MHz Ant1 NTV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	17.175	Pass
		5200	1	17.062	Pass
		5240	1	17.205	Pass
		5745	1	17.105	Pass
		5785	1	16.959	Pass
		5825	1	17.147	Pass
802.11n (HT20)	SISO	5180	1	17.997	Pass
		5200	1	18.043	Pass
		5240	1	17.998	Pass
		5745	1	17.988	Pass
		5785	1	18.057	Pass
		5825	1	17.875	Pass
802.11n (HT40)	SISO	5190	1	36.163	Pass
		5230	1	36.279	Pass
		5755	1	36.286	Pass
		5795	1	36.175	Pass
802.11ac (VHT20)	SISO	5180	1	18.028	Pass
		5200	1	18.073	Pass
		5240	1	17.911	Pass
		5745	1	17.953	Pass
		5785	1	17.974	Pass
		5825	1	17.933	Pass
802.11ac (VHT40)	SISO	5190	1	36.173	Pass
		5230	1	36.105	Pass
		5755	1	36.211	Pass
		5795	1	36.227	Pass
802.11ac (VHT80)	SISO	5210	1	75.675	Pass
		5775	1	75.679	Pass

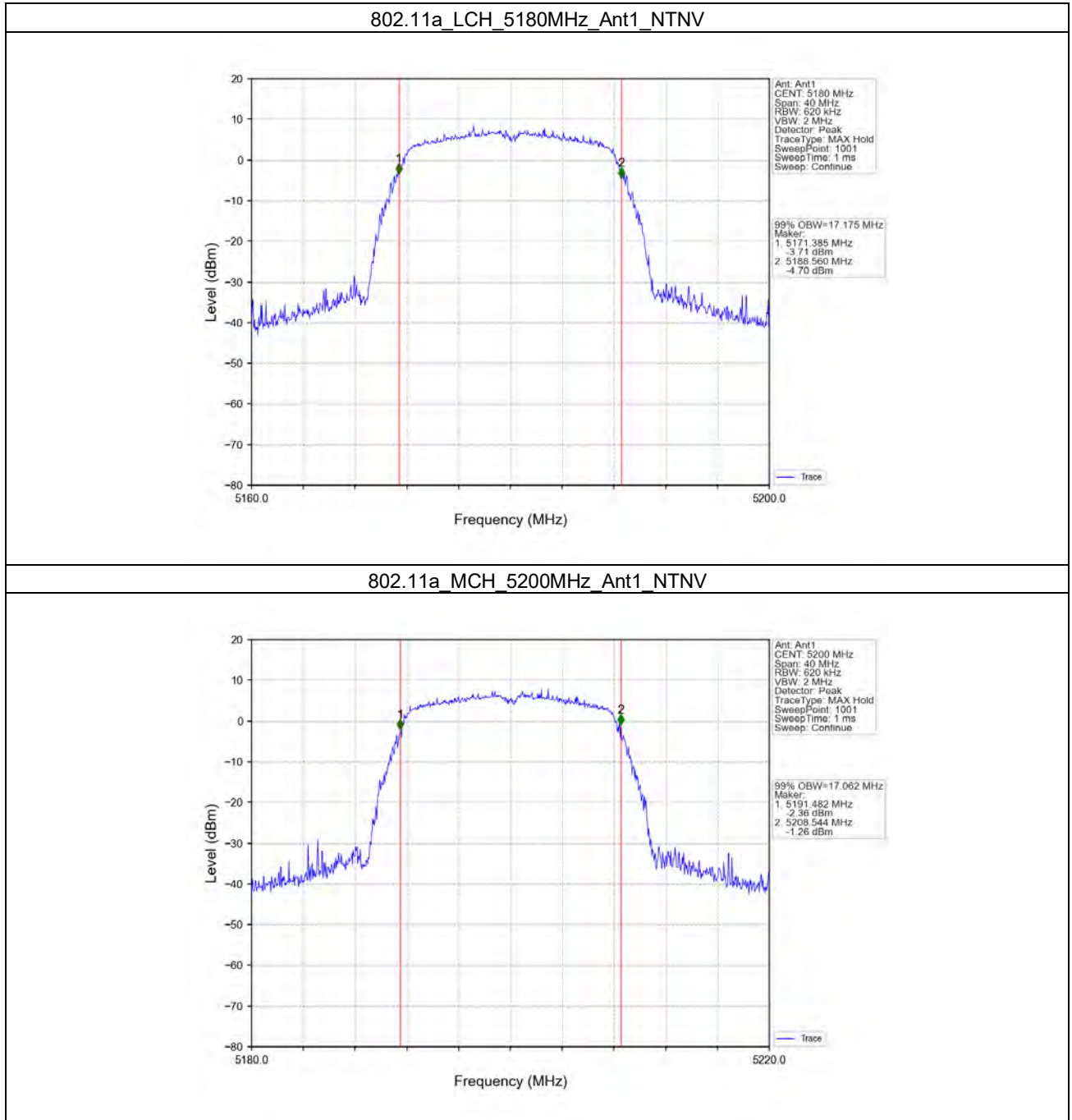


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2.1.2 Test Graph

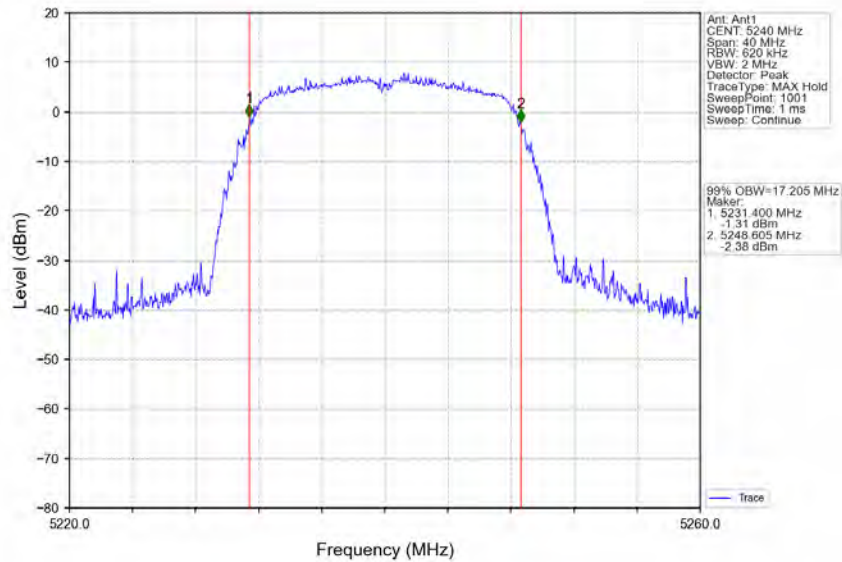


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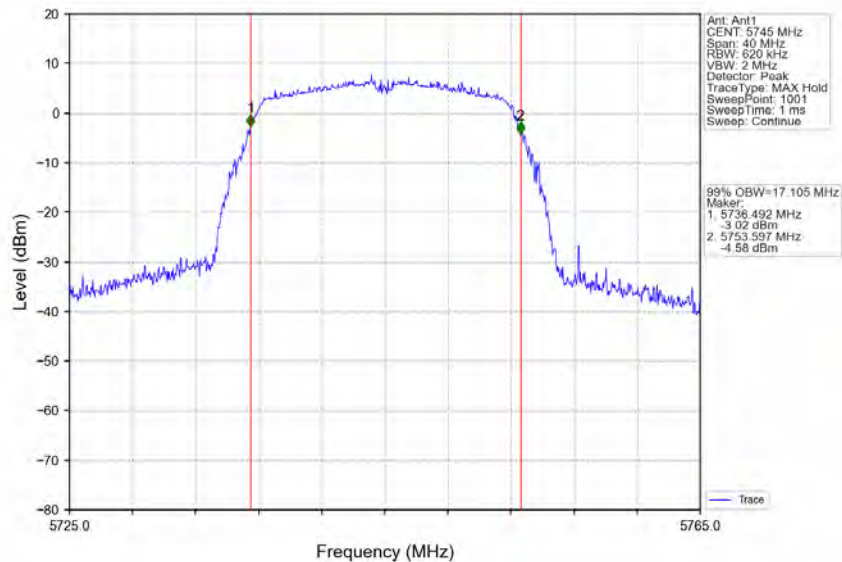
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802.11a HCH 5240MHz Ant1 NTN



802.11a LCH 5745MHz Ant1 NTN

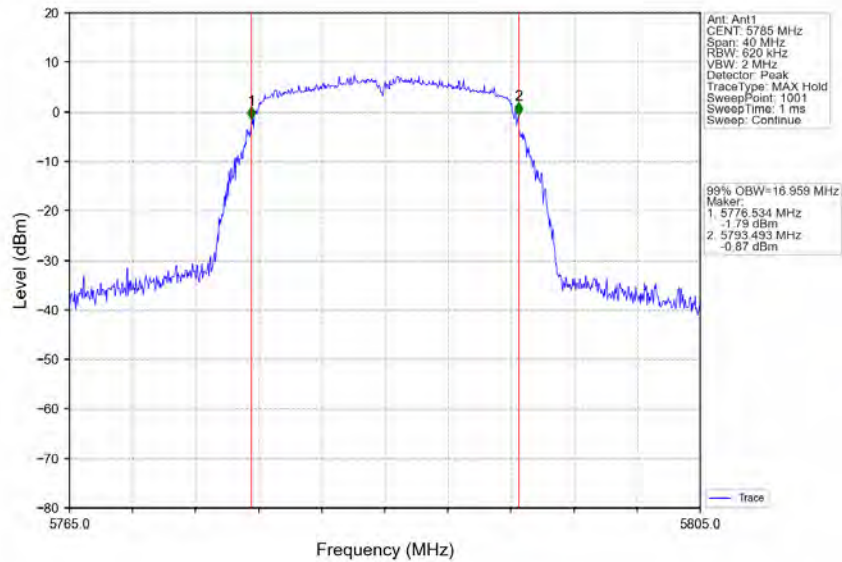


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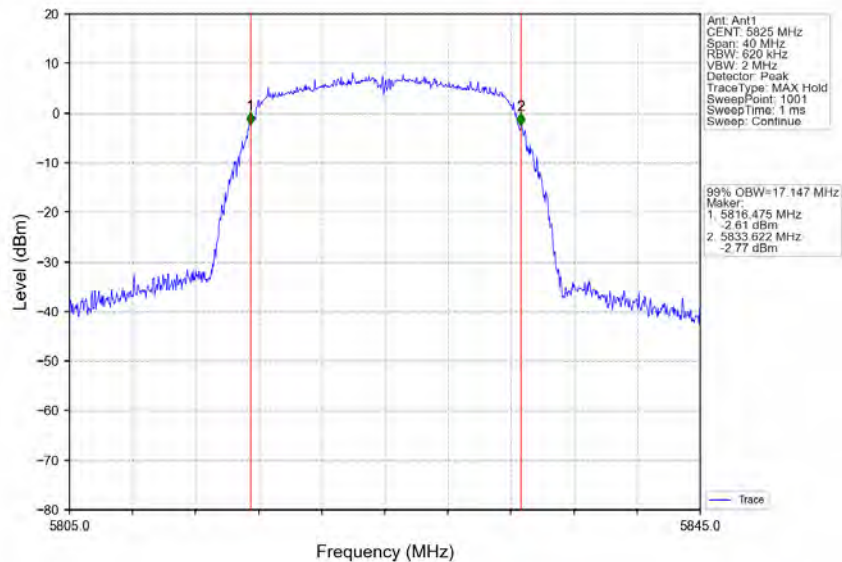
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802.11a MCH 5785MHz Ant1 NTN



802.11a HCH 5825MHz Ant1 NTN

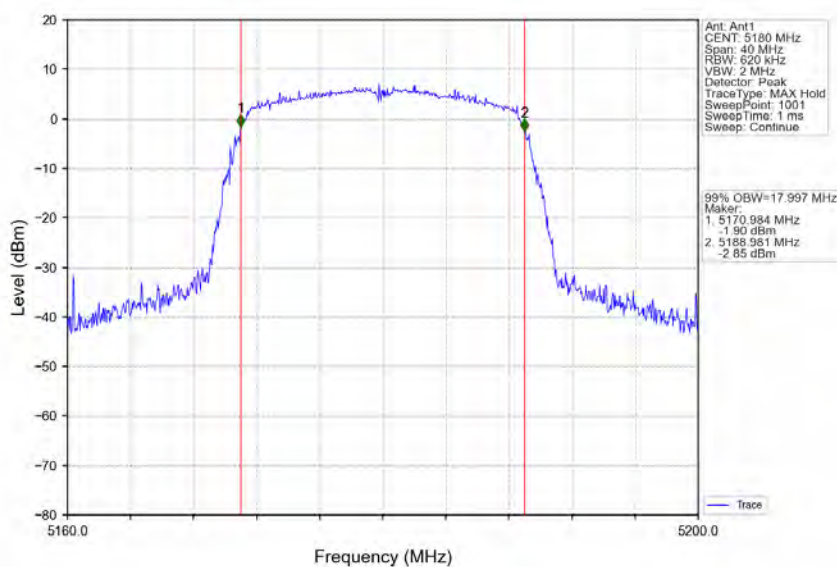


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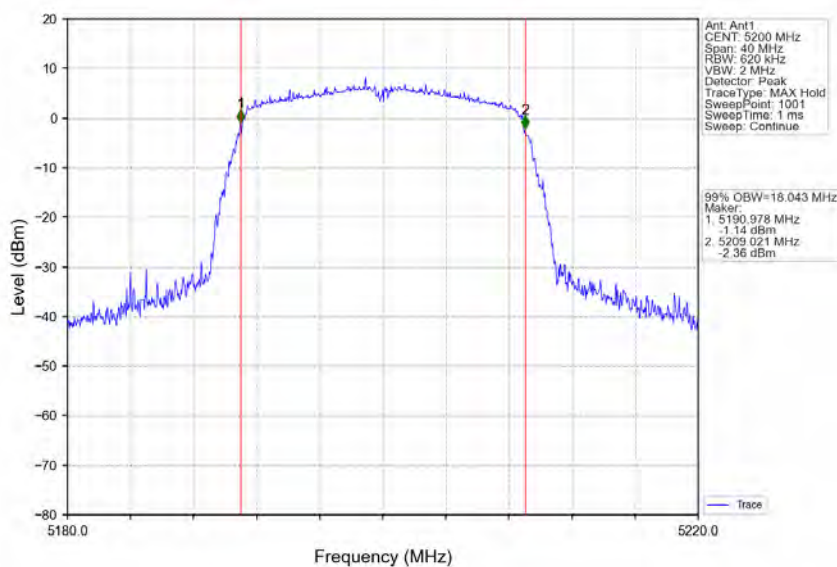
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802.11n(HT20) LCH 5180MHz Ant1 NTN



802.11n(HT20) MCH 5200MHz Ant1 NTN

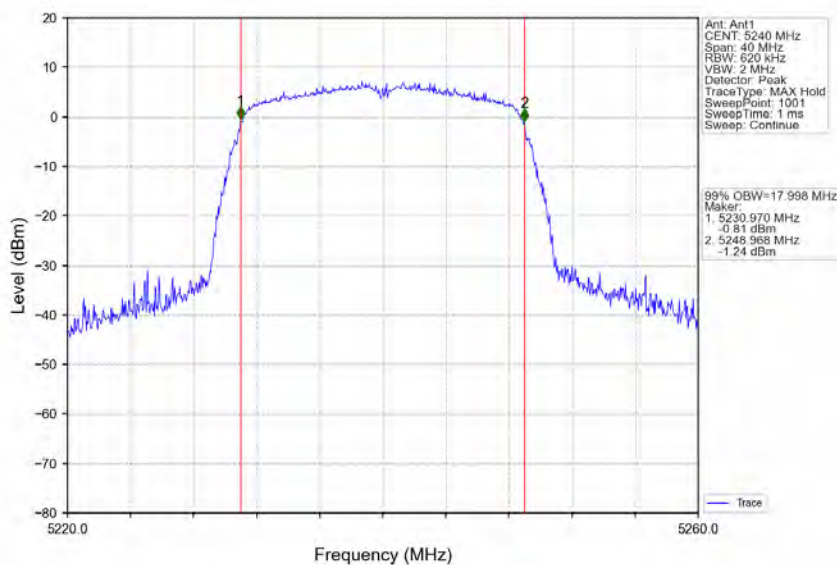


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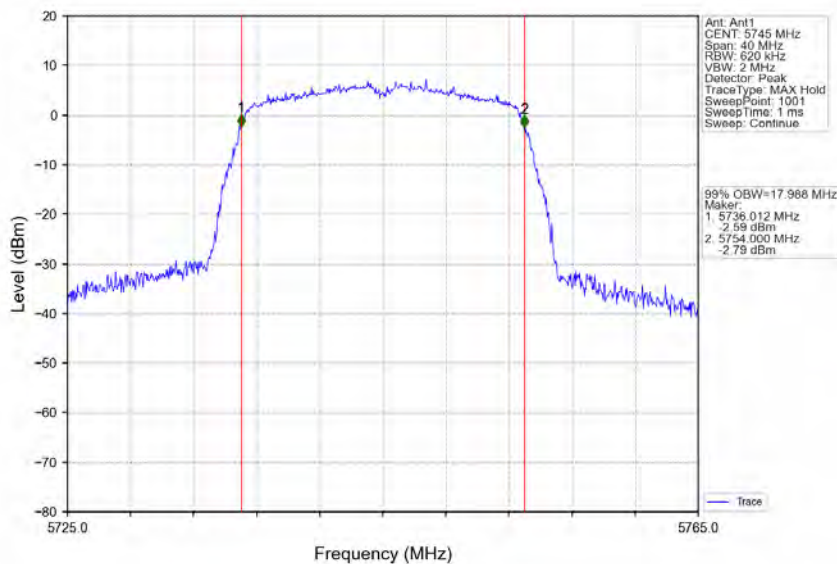
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802.11n(HT20) HCH 5240MHz Ant1 NTN



802.11n(HT20) LCH 5745MHz Ant1 NTN

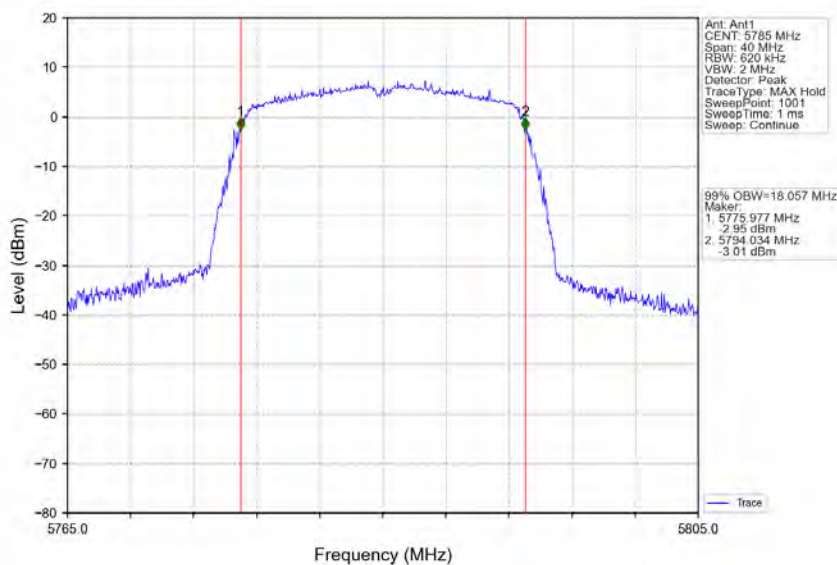


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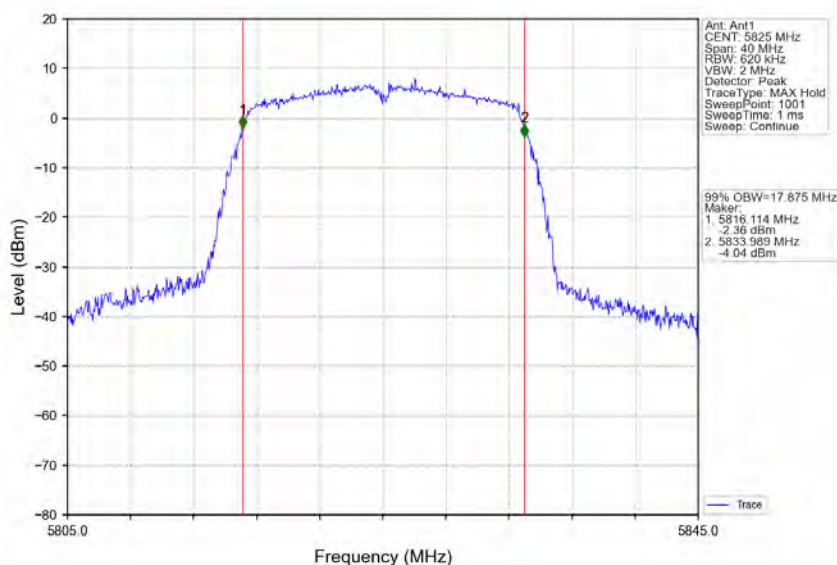
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802.11n(HT20) MCH 5785MHz Ant1 NTN



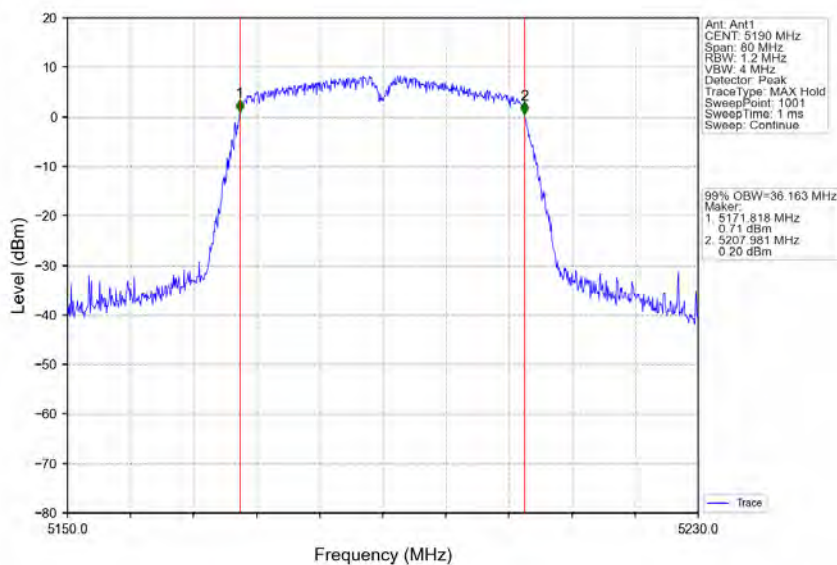
802.11n(HT20) HCH 5825MHz Ant1 NTN



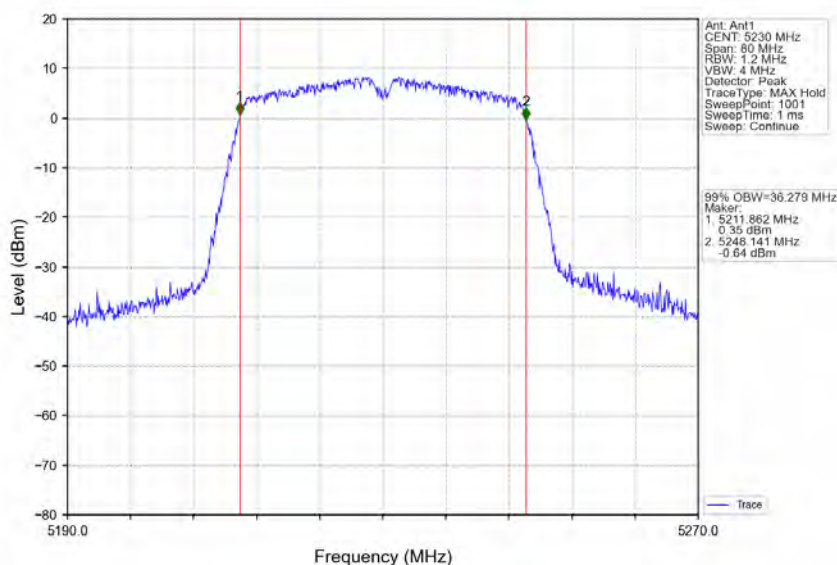
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802.11n(HT40) LCH 5190MHz Ant1 NTN



802.11n(HT40) HCH 5230MHz Ant1 NTN

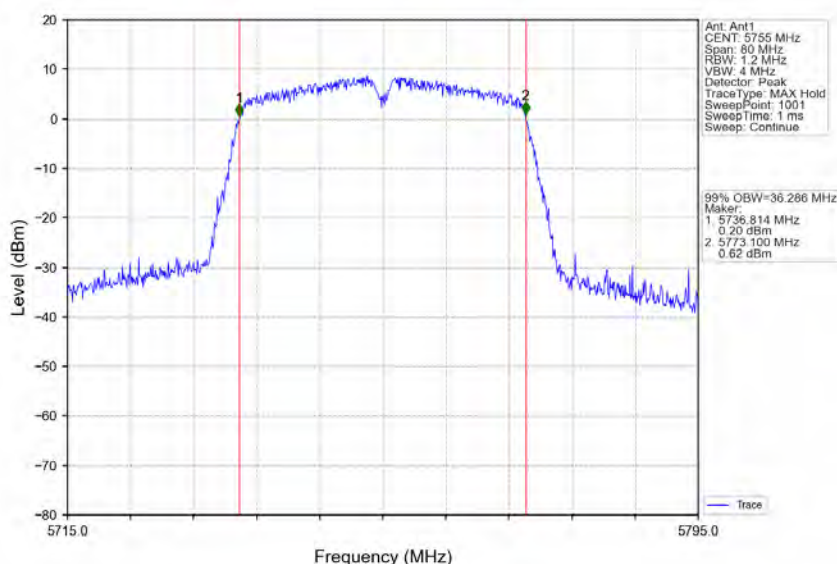


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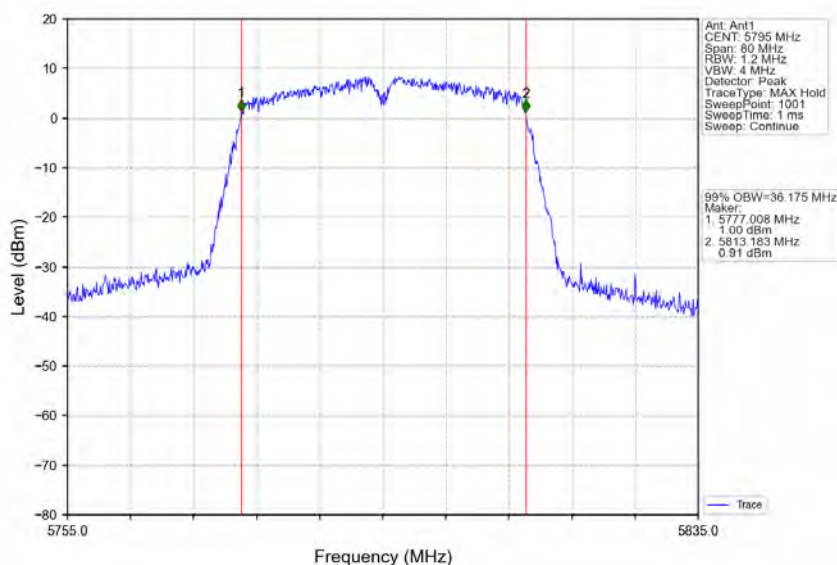
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802.11n(HT40) LCH 5755MHz Ant1 NTN



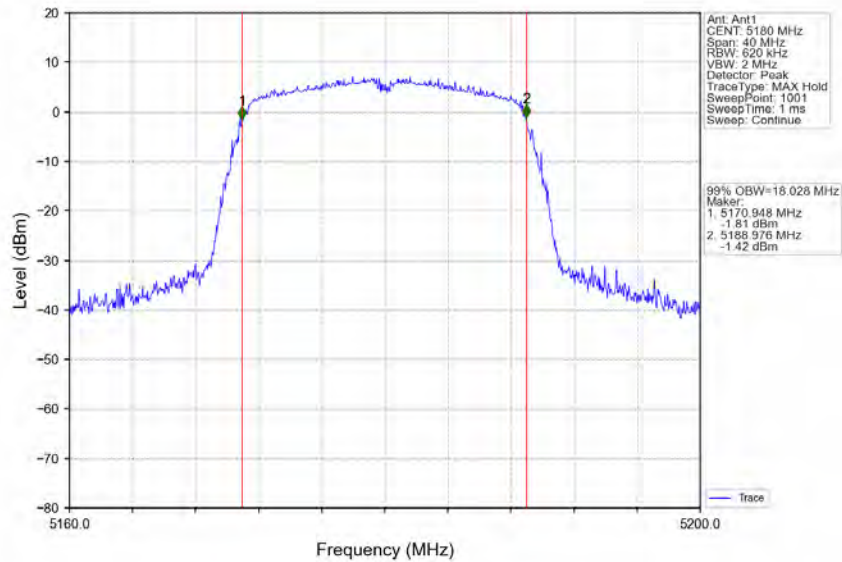
802.11n(HT40) HCH 5795MHz Ant1 NTN



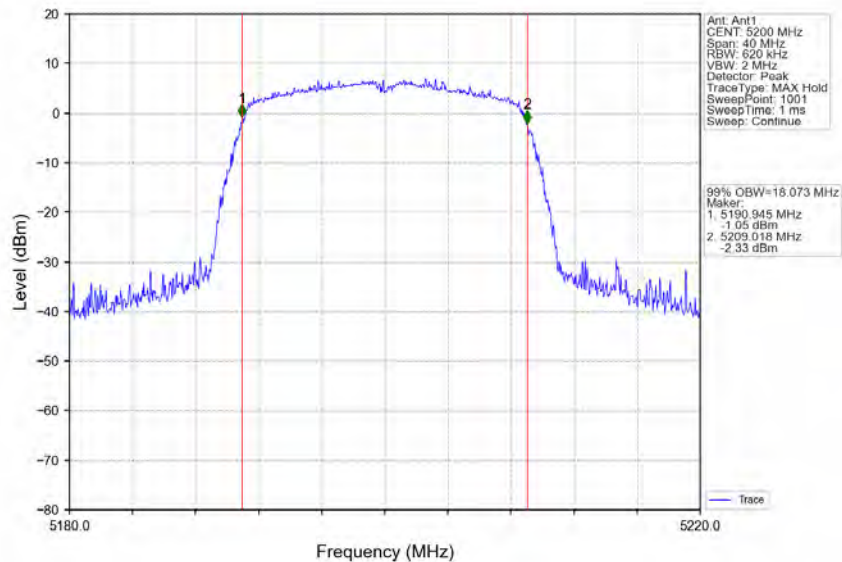
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802.11ac(VHT20) LCH 5180MHz Ant1 NTV



802.11ac(VHT20) MCH 5200MHz Ant1 NTV

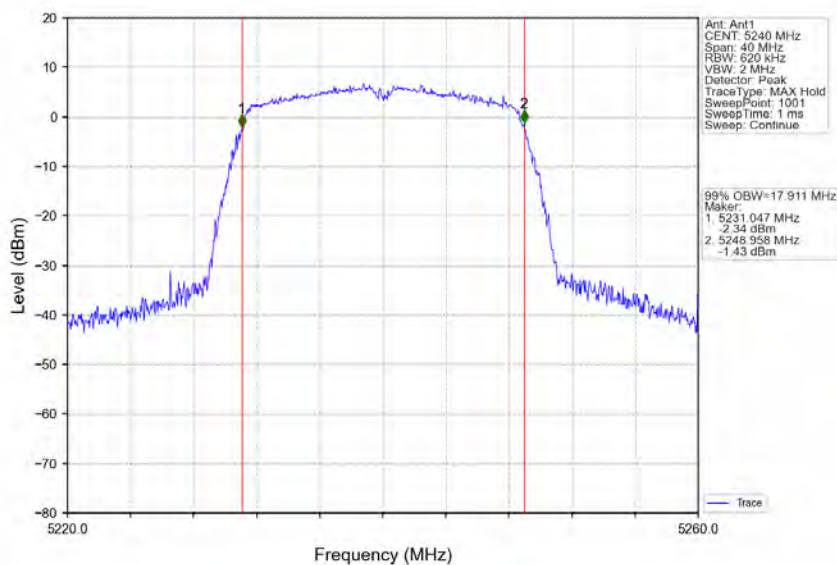


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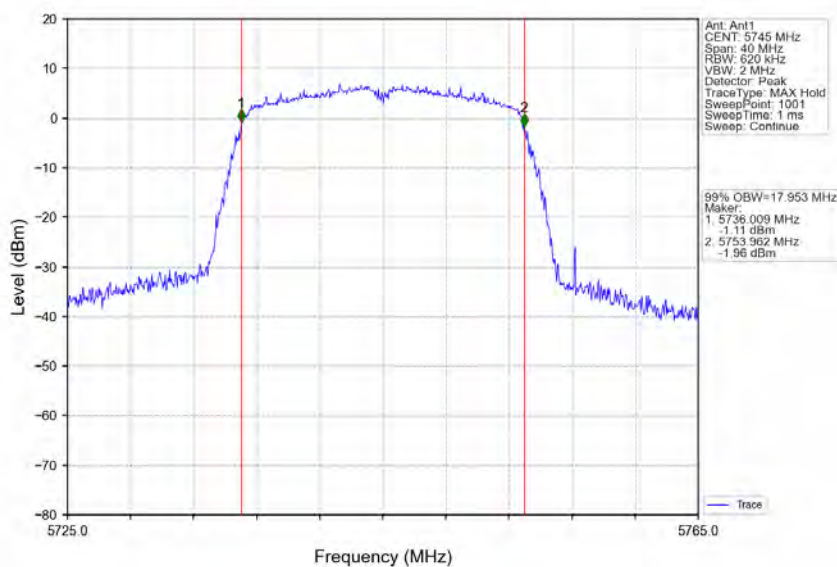
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802.11ac(VHT20) HCH 5240MHz Ant1 NTVN



802.11ac(VHT20) LCH 5745MHz Ant1 NTVN

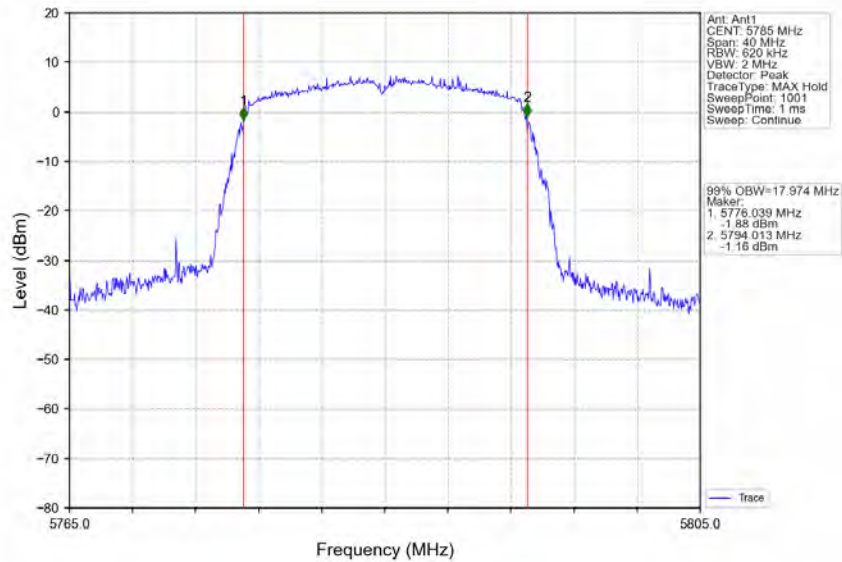


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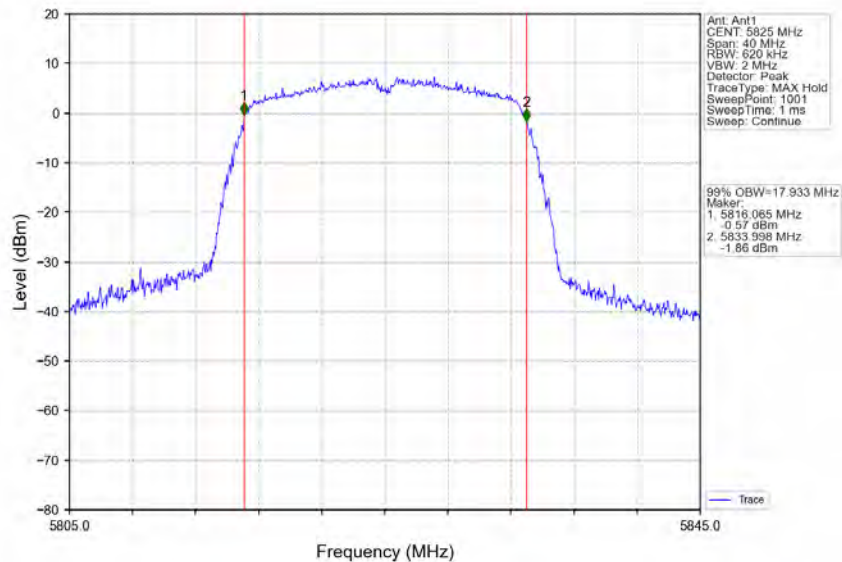
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802.11ac(VHT20) MCH 5785MHz Ant1 NTV



802.11ac(VHT20) HCH 5825MHz Ant1 NTV

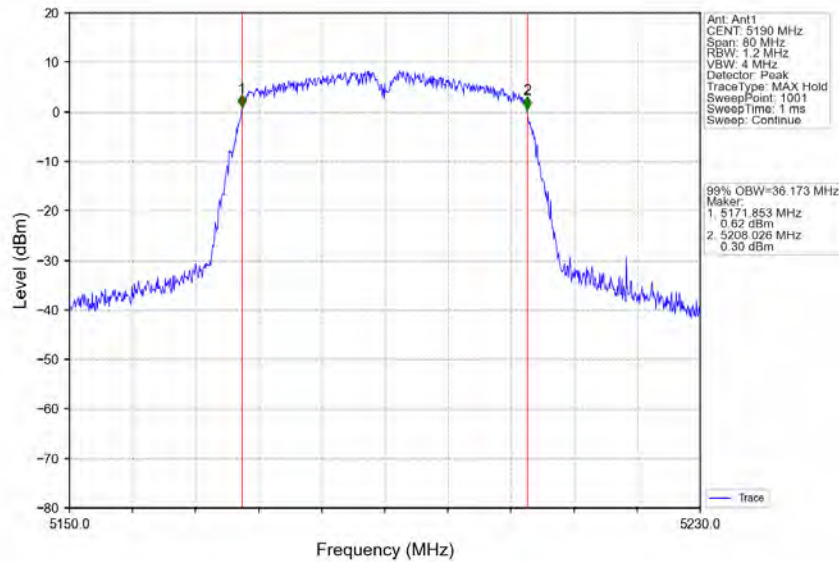


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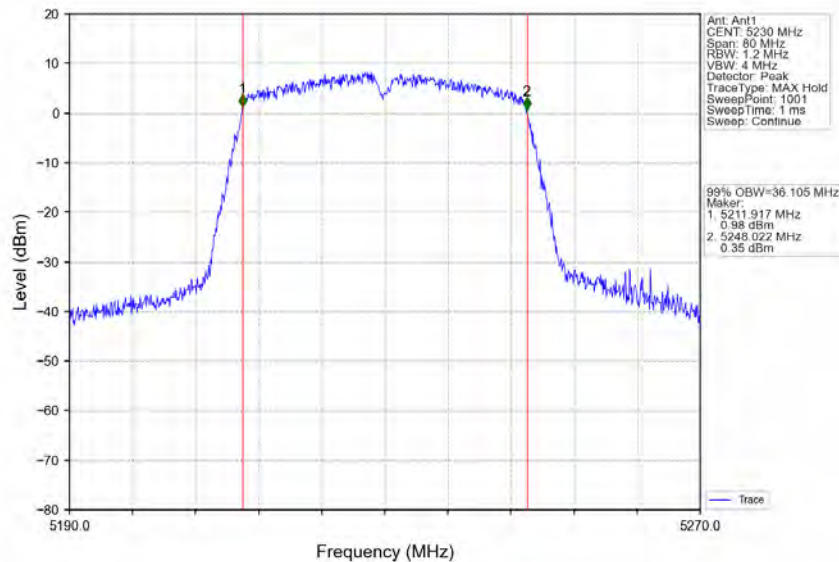
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802.11ac(VHT40) LCH 5190MHz Ant1 NTV



802.11ac(VHT40) HCH 5230MHz Ant1 NTV

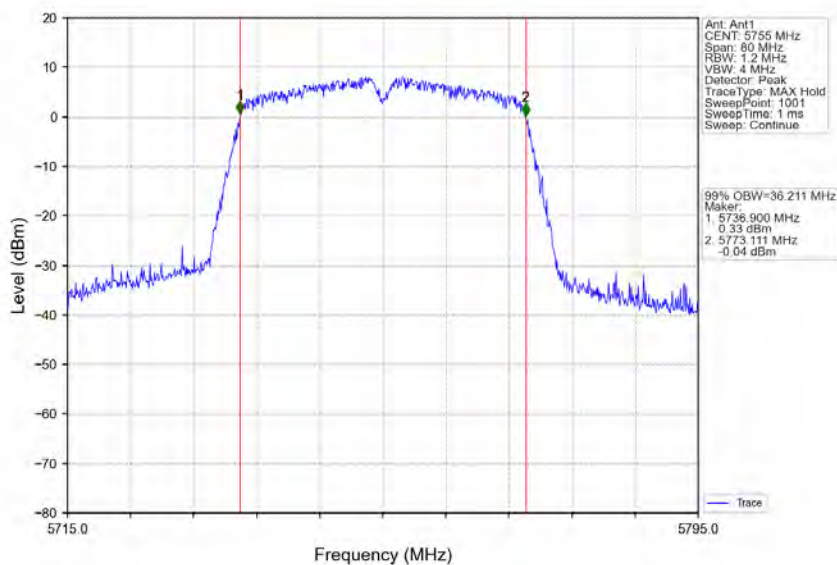


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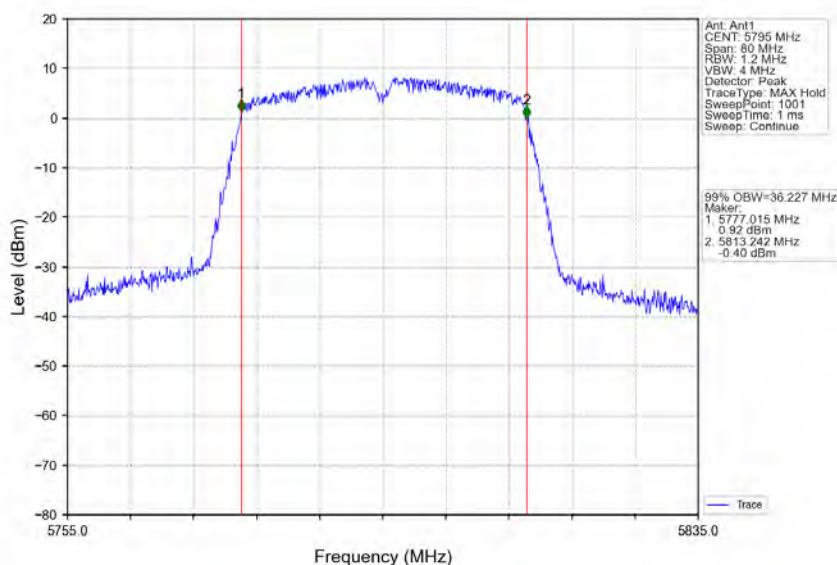
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802.11ac(VHT40) LCH 5755MHz Ant1 NTV



802.11ac(VHT40) HCH 5795MHz Ant1 NTV

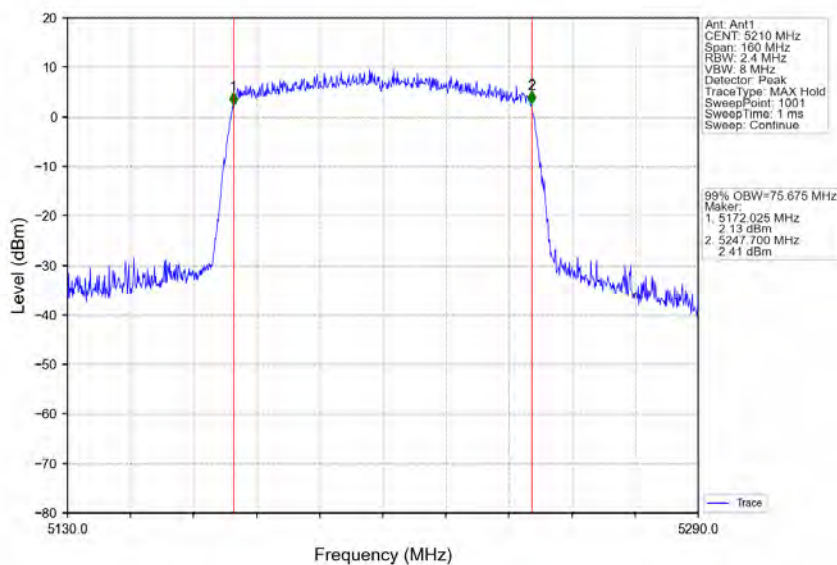


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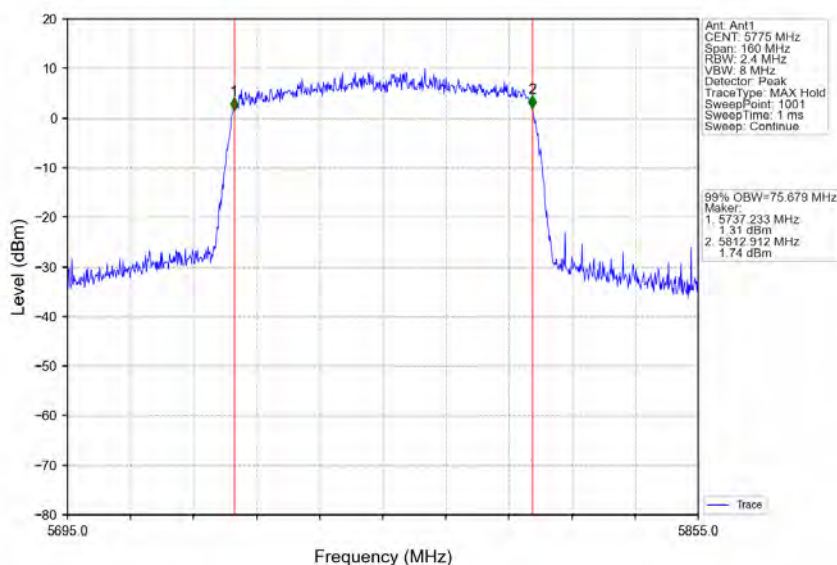
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802.11ac(VHT80) MCH 5210MHz Ant1 NTV



802.11ac(VHT80) MCH 5775MHz Ant1 NTV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	16.368	≥ 0.5	Pass
		5785	1	16.350	≥ 0.5	Pass
		5825	1	16.351	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.605	≥ 0.5	Pass
		5785	1	17.580	≥ 0.5	Pass
		5825	1	17.605	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.289	≥ 0.5	Pass
		5795	1	35.724	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.615	≥ 0.5	Pass
		5785	1	17.614	≥ 0.5	Pass
		5825	1	17.608	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.176	≥ 0.5	Pass
		5795	1	35.942	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	76.368	≥ 0.5	Pass

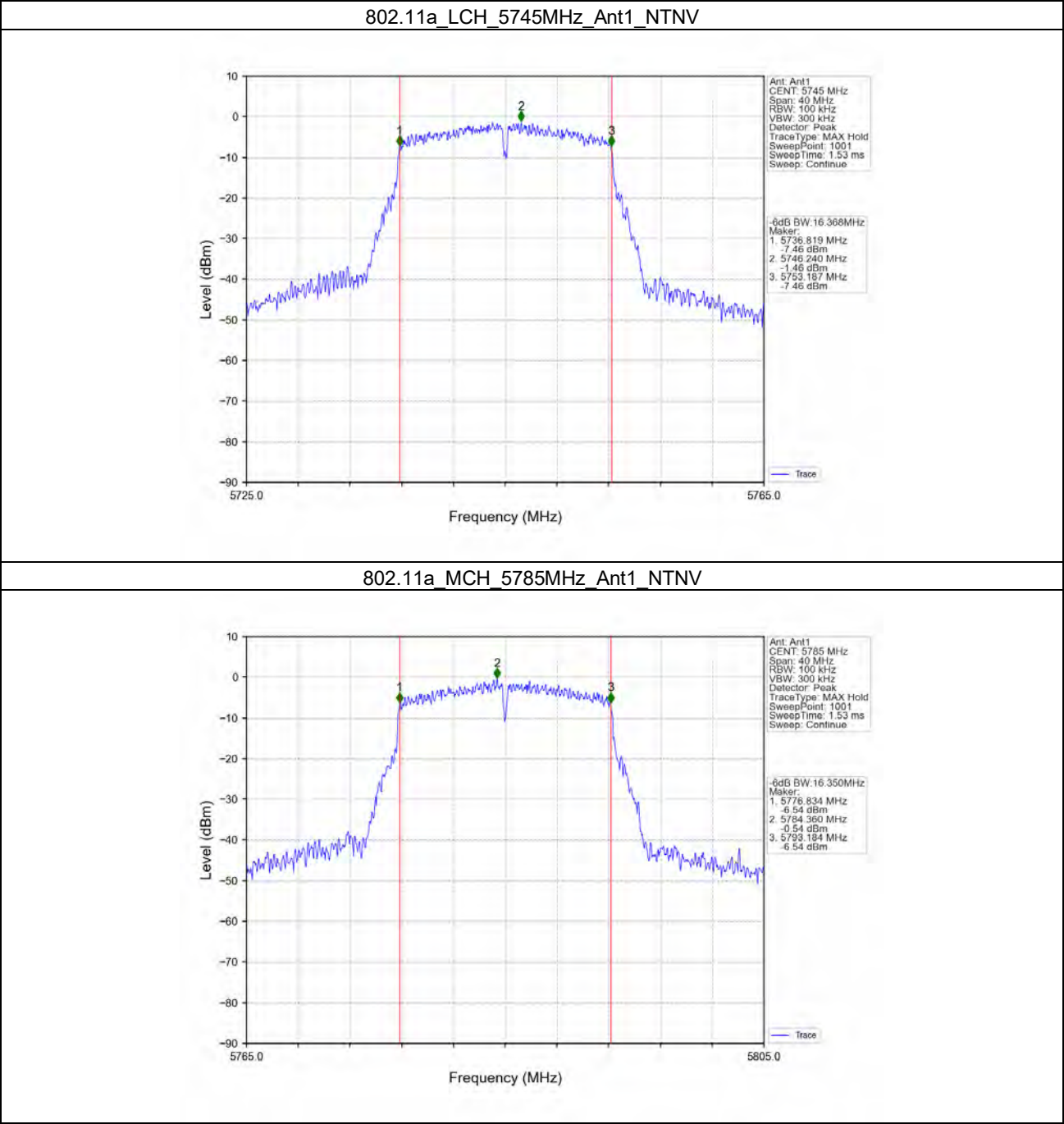


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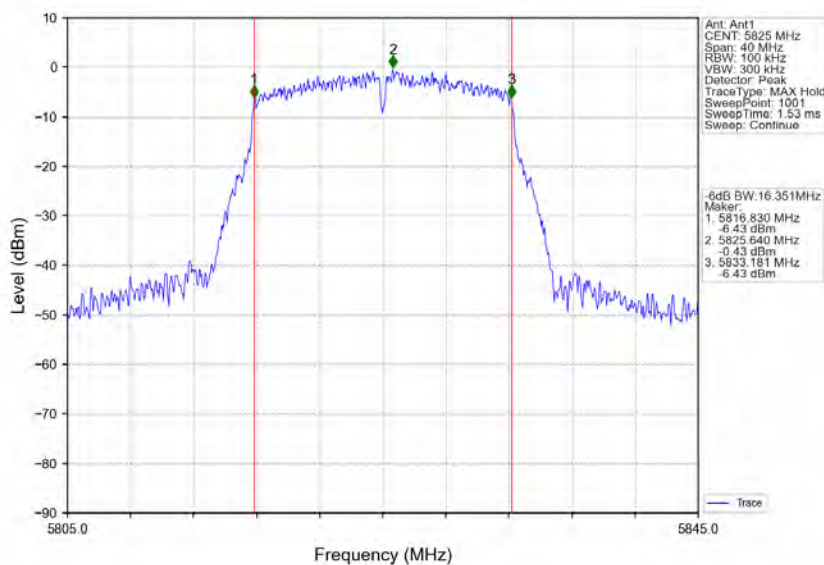
2.2.2 Test Graph



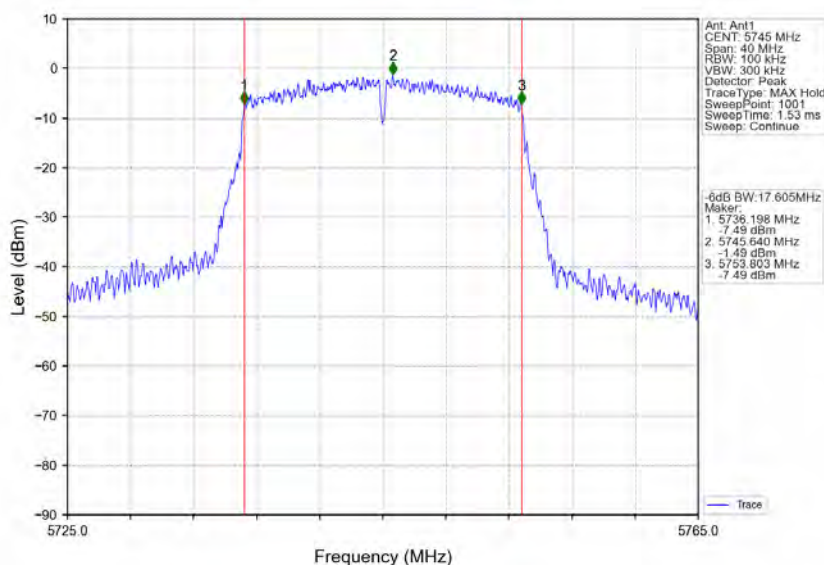
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802.11a HCH 5825MHz Ant1 NTN



802.11n(HT20) LCH 5745MHz Ant1 NTN

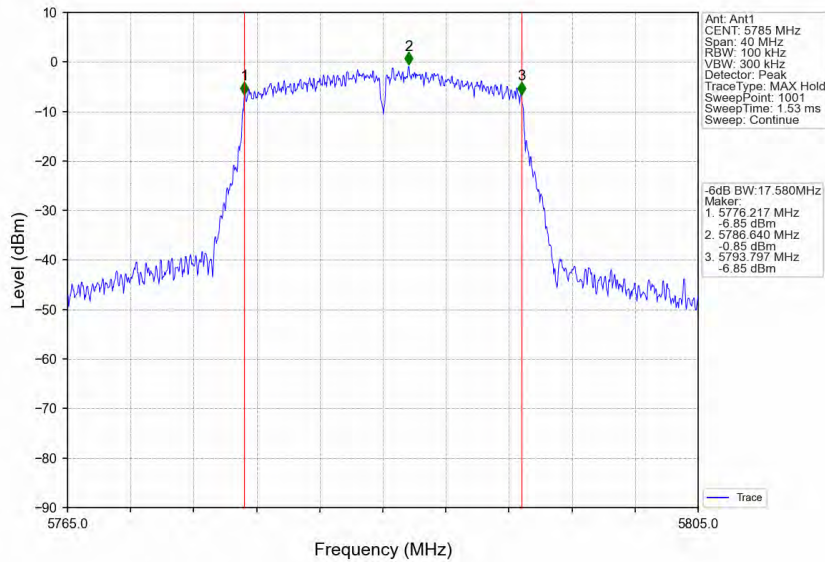


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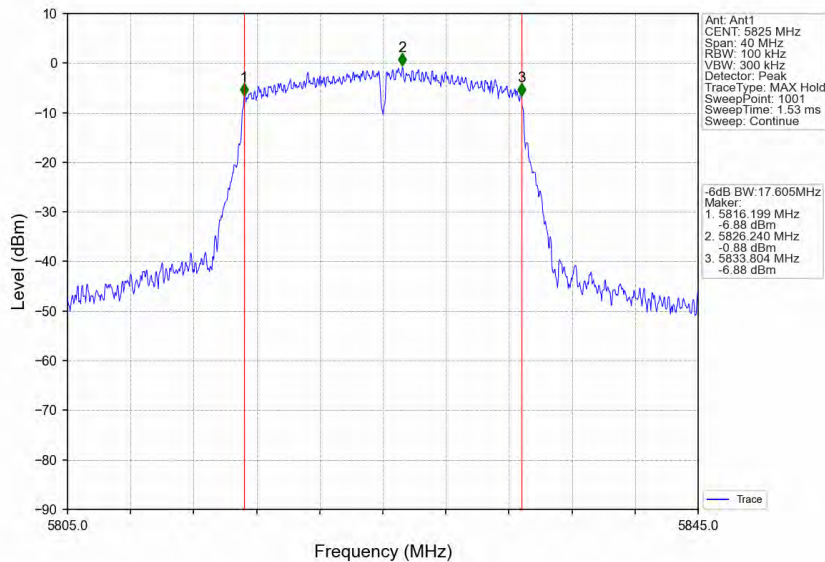
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802.11n(HT20) MCH 5785MHz Ant1 NTN



802.11n(HT20) HCH 5825MHz Ant1 NTN

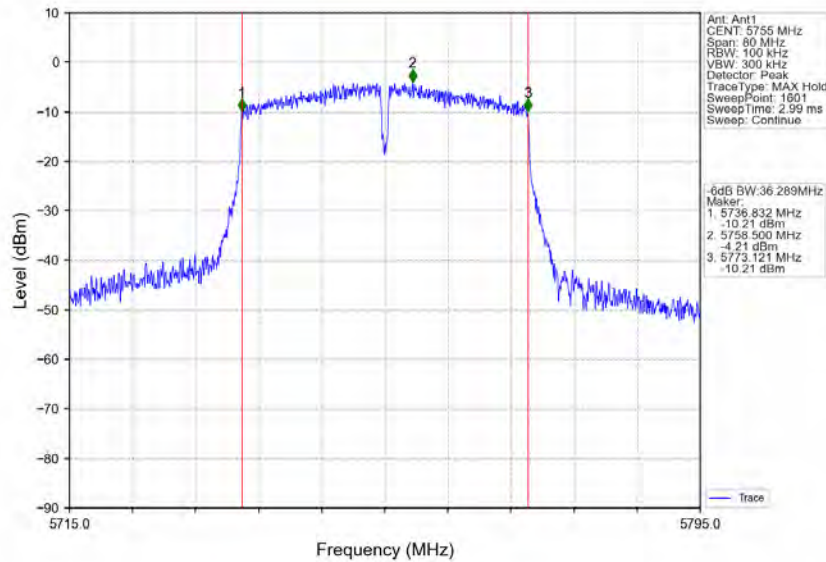


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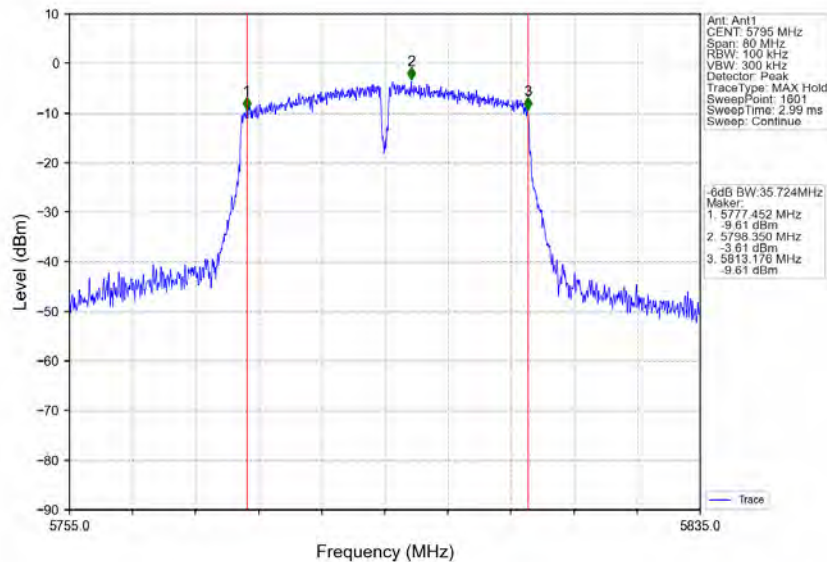
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802.11n(HT40) LCH 5755MHz Ant1 NTN



802.11n(HT40) HCH 5795MHz Ant1 NTN

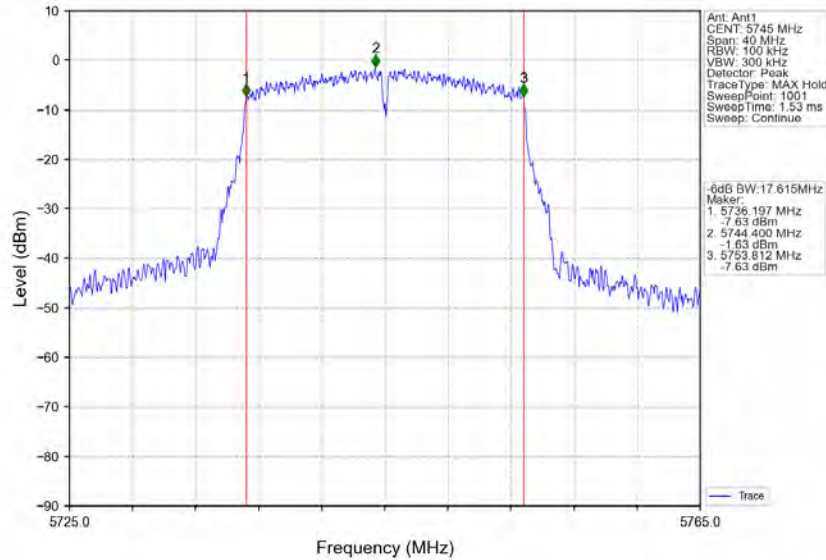


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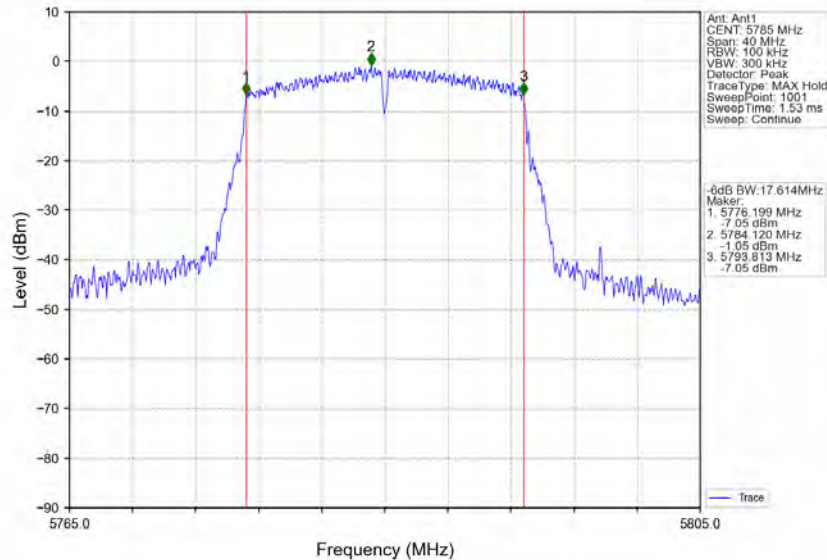
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802.11ac(VHT20) LCH 5745MHz Ant1 NTV



802.11ac(VHT20) MCH 5785MHz Ant1 NTV

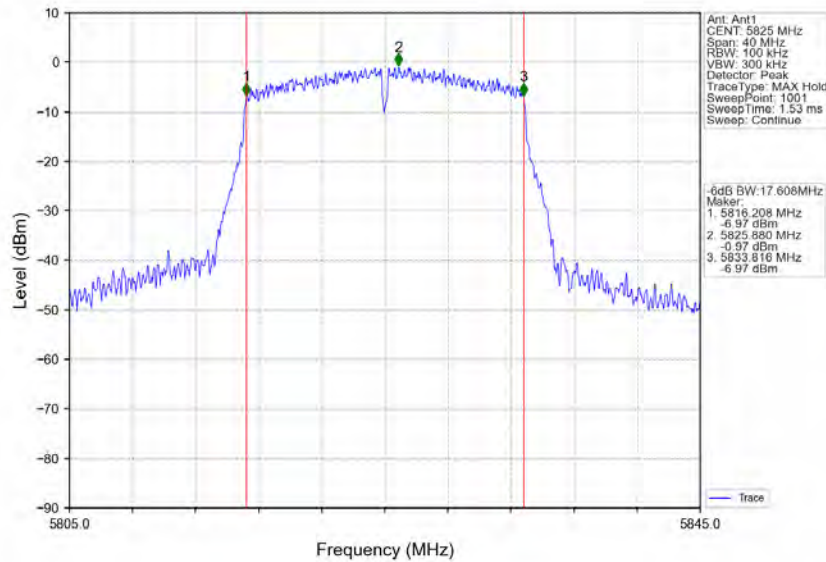


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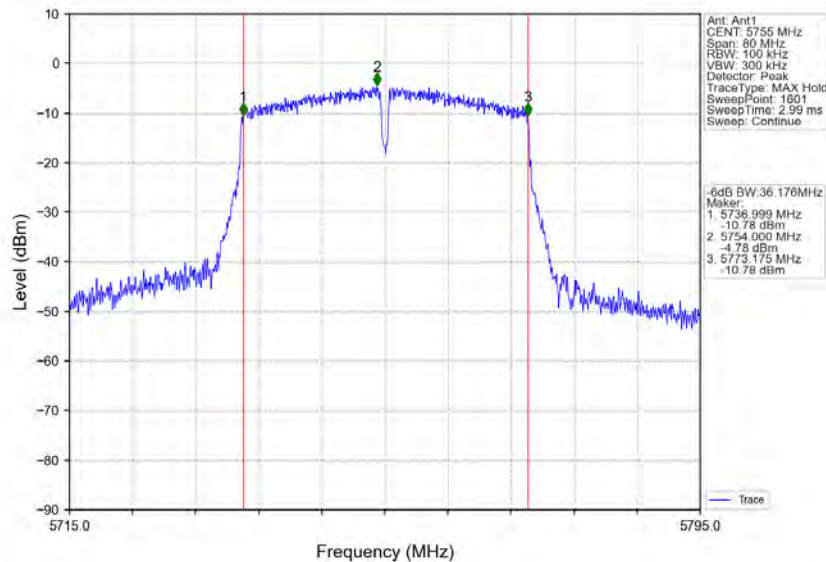
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802.11ac(VHT20) HCH 5825MHz Ant1 NTV



802.11ac(VHT40) LCH 5755MHz Ant1 NTV

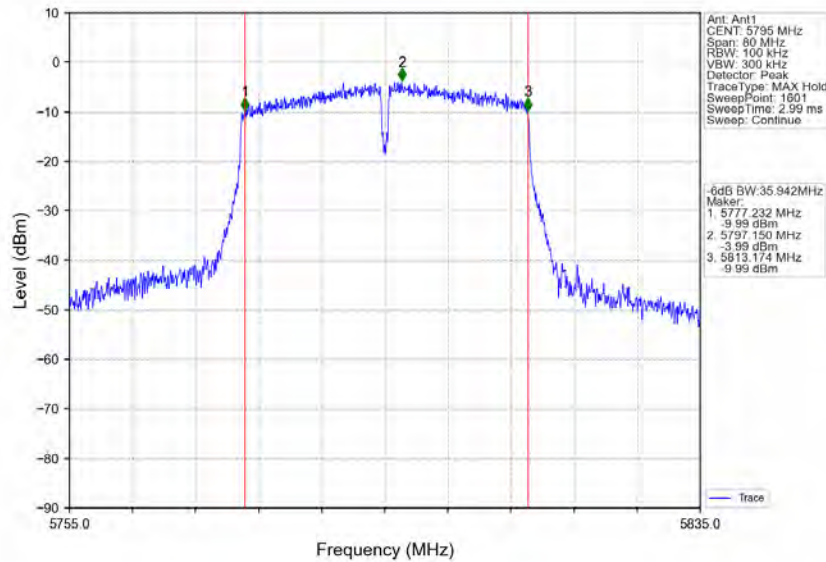


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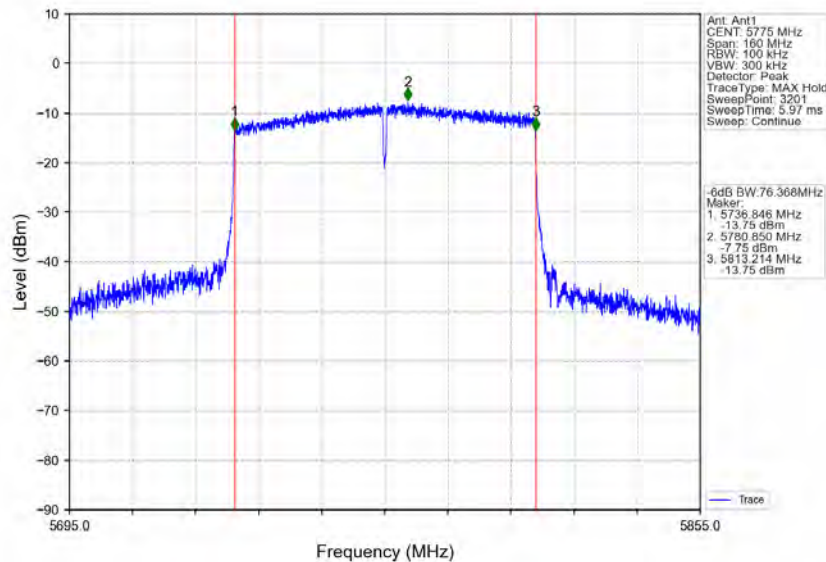
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802.11ac(VHT40) HCH 5795MHz Ant1 NTV



802.11ac(VHT80) MCH 5775MHz Ant1 NTV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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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	19.934	Pass
		5200	1	19.814	Pass
		5240	1	19.768	Pass
802.11n (HT20)	SISO	5180	1	20.050	Pass
		5200	1	20.089	Pass
		5240	1	20.037	Pass
802.11n (HT40)	SISO	5190	1	40.068	Pass
		5230	1	40.386	Pass
802.11ac (VHT20)	SISO	5180	1	19.883	Pass
		5200	1	20.027	Pass
		5240	1	20.167	Pass
802.11ac (VHT40)	SISO	5190	1	40.529	Pass
		5230	1	39.955	Pass
802.11ac (VHT80)	SISO	5210	1	80.654	Pass

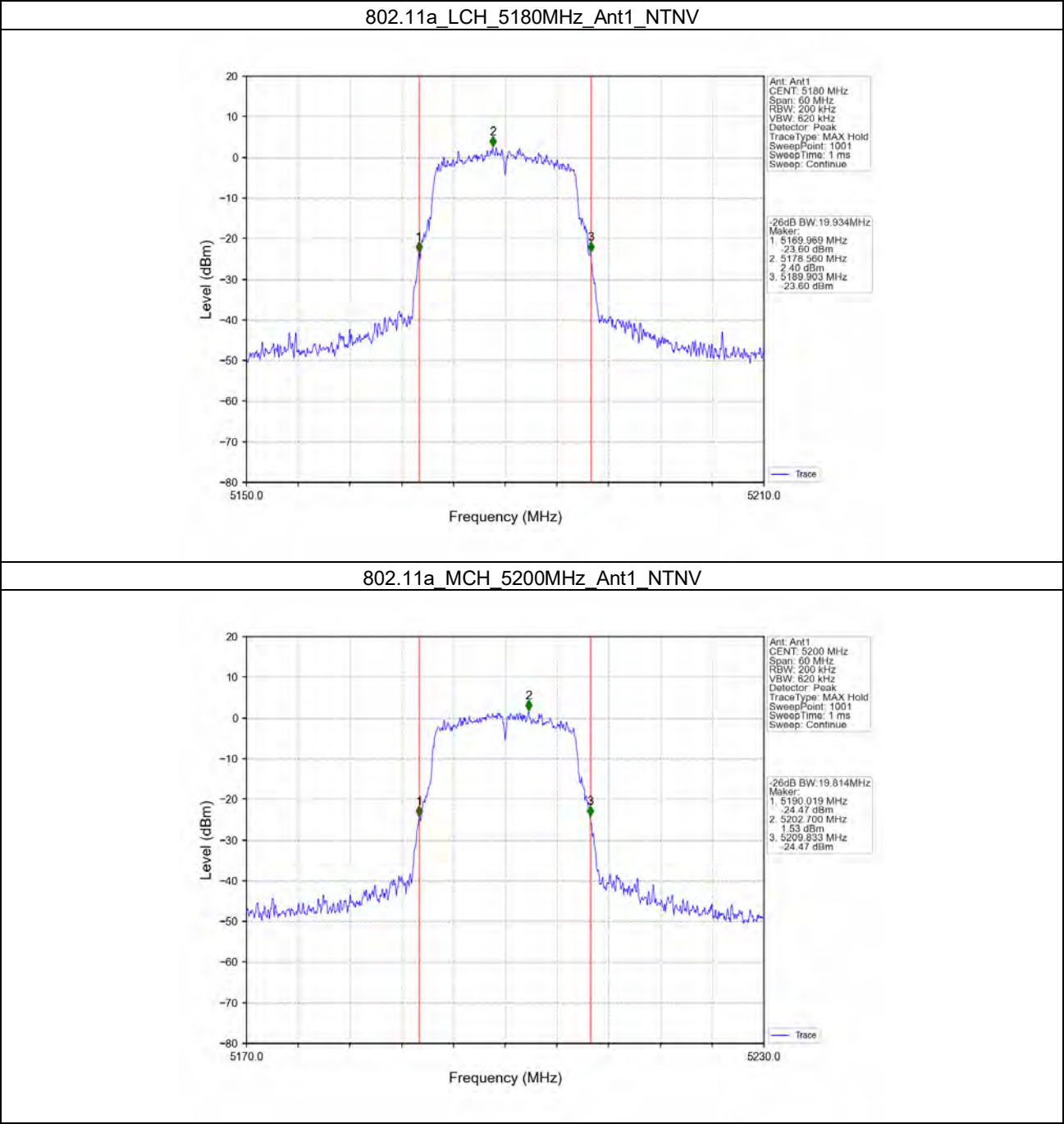


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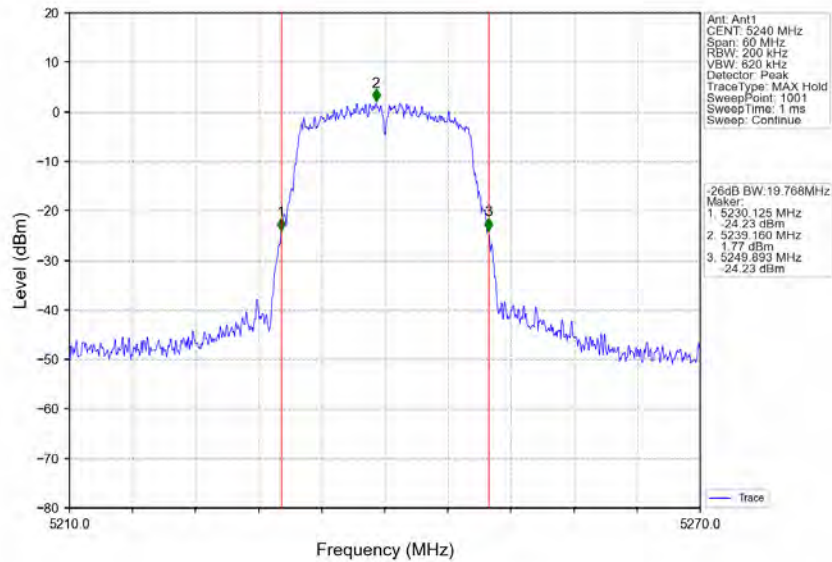
2.3.2 Test Graph



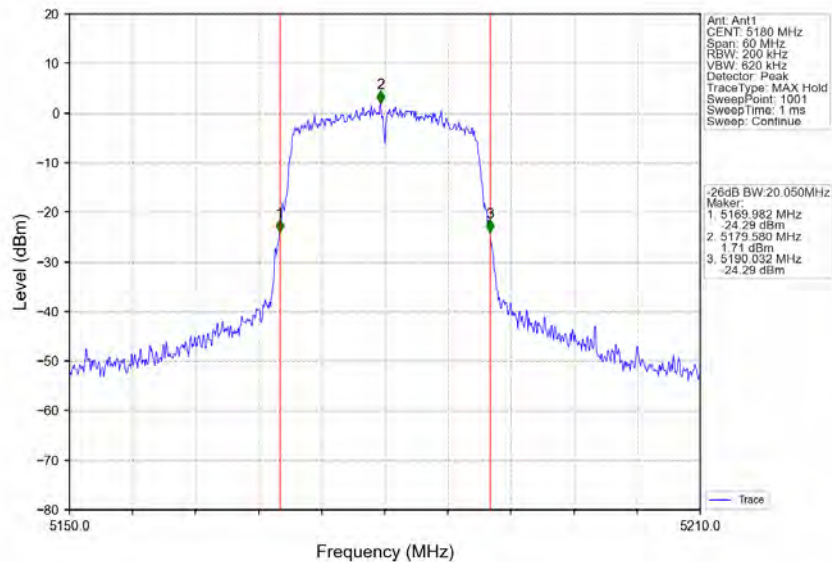
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802.11a HCH 5240MHz Ant1 NTNV



802.11n(HT20) LCH 5180MHz Ant1 NTNV

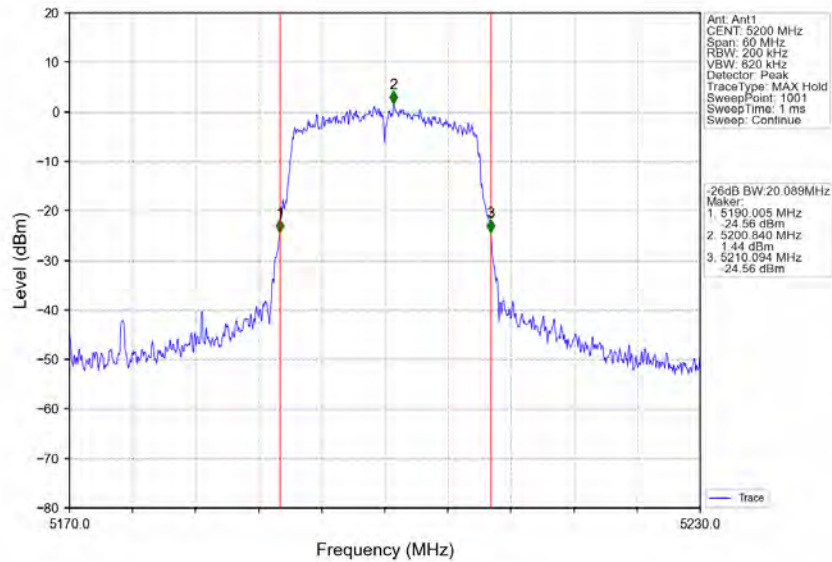


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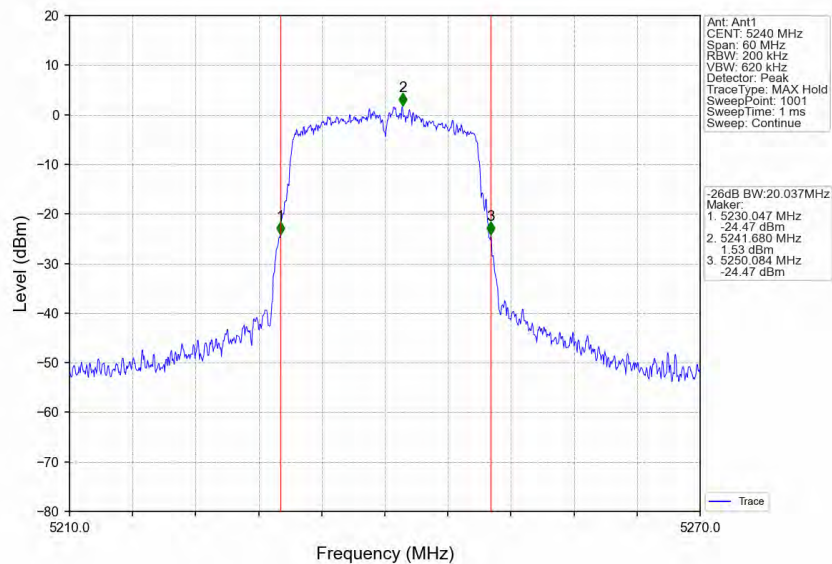
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802.11n(HT20) MCH 5200MHz Ant1 NTN



802.11n(HT20) HCH 5240MHz Ant1 NTN

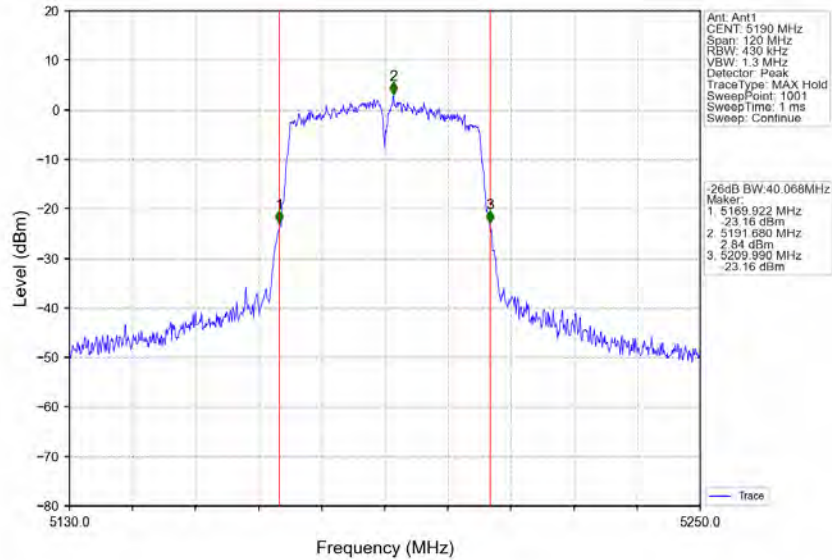


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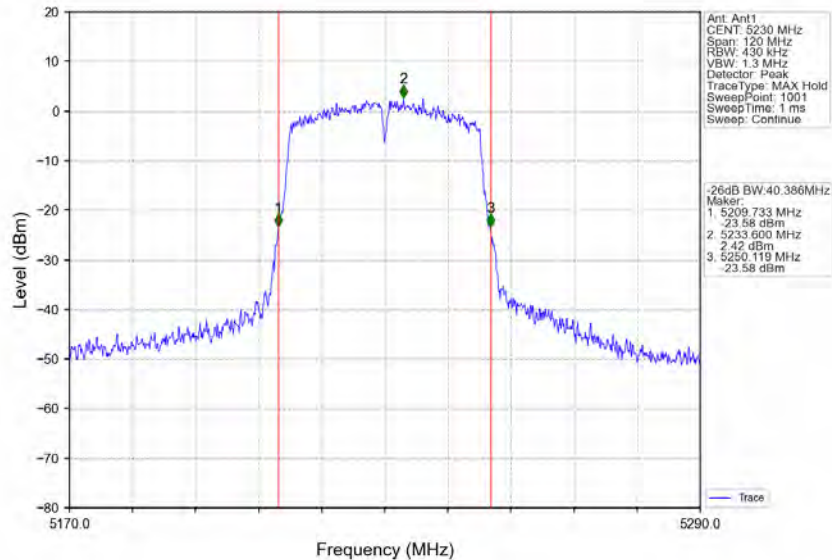
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802.11n(HT40) LCH 5190MHz Ant1 NTN



802.11n(HT40) HCH 5230MHz Ant1 NTN

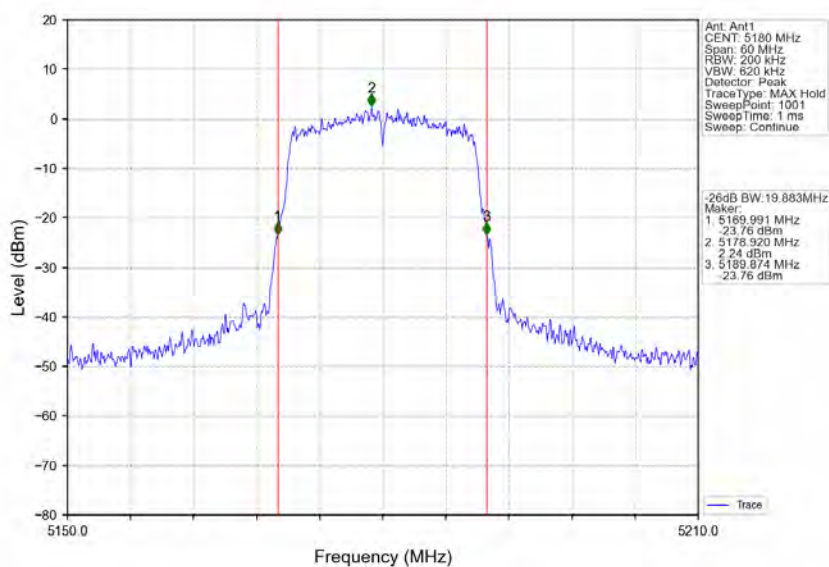


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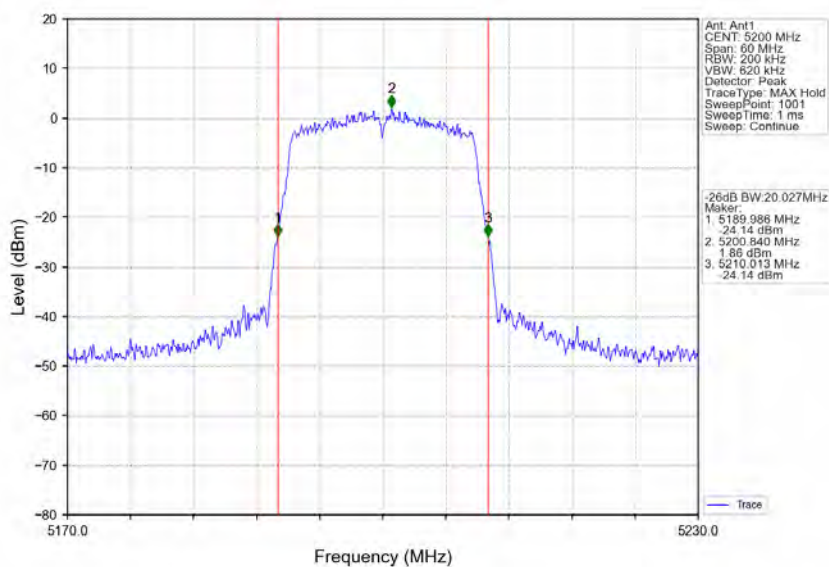
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802.11ac(VHT20) LCH 5180MHz Ant1 NTV



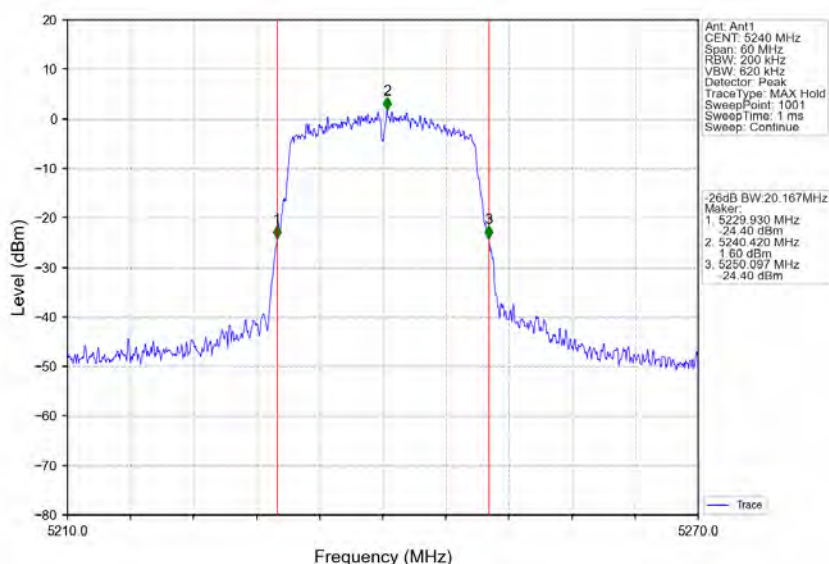
802.11ac(VHT20) MCH 5200MHz Ant1 NTV



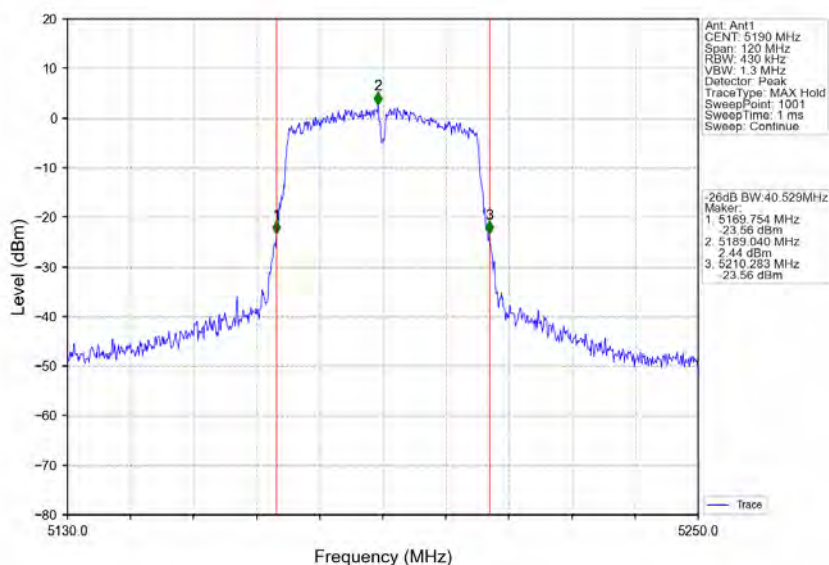
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802.11ac(VHT20) HCH 5240MHz Ant1 NTV



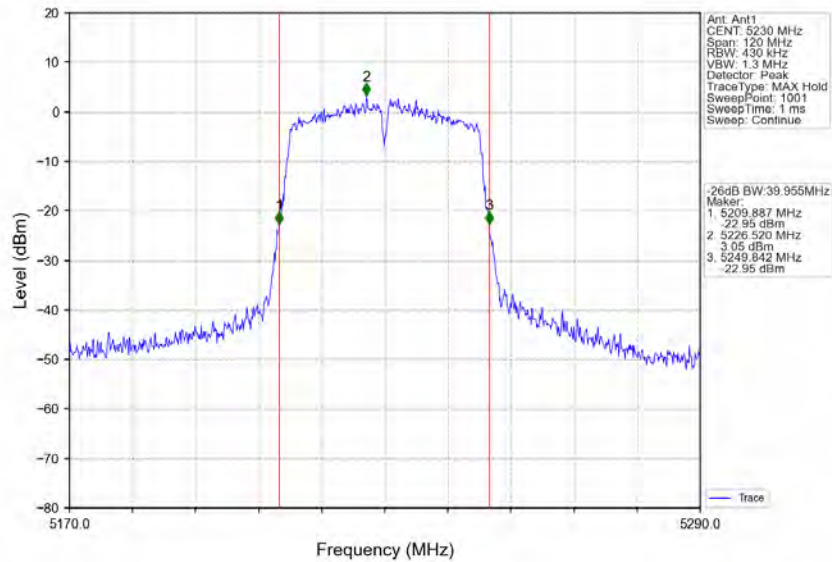
802.11ac(VHT40) LCH 5190MHz Ant1 NTV



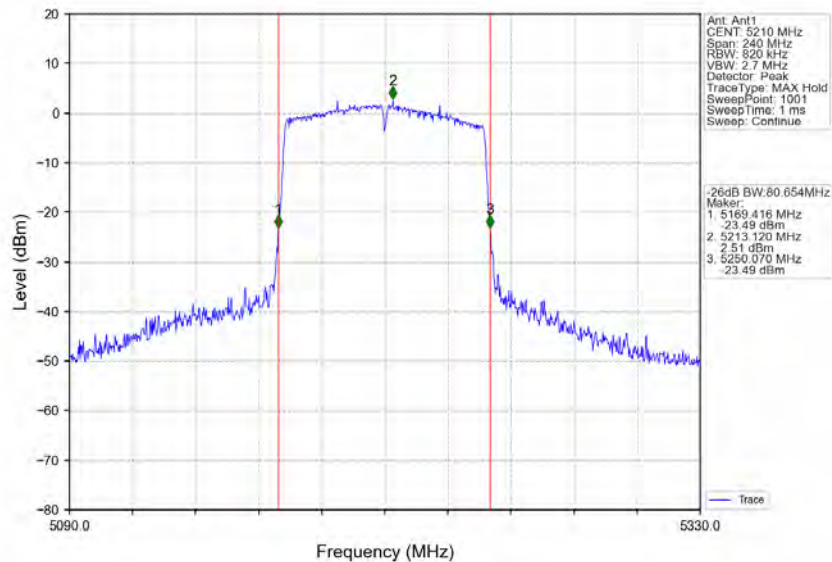
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802.11ac(VHT40) HCH 5230MHz Ant1 NTV



802.11ac(VHT80) MCH 5210MHz Ant1 NTV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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3. Maximum Conducted Output Power

3.1 Power for FCC & IC

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	12.73	<=23.98	Pass
		5200	12.45	<=23.98	Pass
		5240	12.50	<=23.98	Pass
		5745	12.29	<=30	Pass
		5785	12.64	<=30	Pass
		5825	12.83	<=30	Pass
802.11n (HT20)	SISO	5180	12.27	<=23.98	Pass
		5200	12.22	<=23.98	Pass
		5240	12.34	<=23.98	Pass
		5745	12.15	<=30	Pass
		5785	12.45	<=30	Pass
		5825	12.73	<=30	Pass
802.11n (HT40)	SISO	5190	12.21	<=23.98	Pass
		5230	12.19	<=23.98	Pass
		5755	12.45	<=30	Pass
		5795	12.33	<=30	Pass
802.11ac (VHT20)	SISO	5180	12.50	<=23.98	Pass
		5200	12.23	<=23.98	Pass
		5240	12.26	<=23.98	Pass
		5745	12.32	<=30	Pass
		5785	12.69	<=30	Pass
		5825	12.64	<=30	Pass
802.11ac (VHT40)	SISO	5190	12.20	<=23.98	Pass
		5230	12.15	<=23.98	Pass
		5755	12.04	<=30	Pass
		5795	12.42	<=30	Pass
802.11ac (VHT80)	SISO	5210	12.16	<=23.98	Pass
		5775	12.04	<=30	Pass

Note1: Antenna Gain: 5150-5250MHz:1.47dBi, 5725-5850MHz:1.42dBi



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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3.2 EIRP for IC

3.2.1 Test Result

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	14.20	<=22.35	Pass
		5200	13.92	<=22.32	Pass
		5240	13.97	<=22.36	Pass
802.11n (HT20)	SISO	5180	13.74	<=22.55	Pass
		5200	13.69	<=22.56	Pass
		5240	13.81	<=22.55	Pass
802.11n (HT40)	SISO	5190	13.68	<=23.01	Pass
		5230	13.66	<=23.01	Pass
802.11ac (VHT20)	SISO	5180	13.97	<=22.56	Pass
		5200	13.70	<=22.57	Pass
		5240	13.73	<=22.53	Pass
802.11ac (VHT40)	SISO	5190	13.67	<=23.01	Pass
		5230	13.62	<=23.01	Pass
802.11ac (VHT80)	SISO	5210	13.63	<=23.01	Pass
Note1: Antenna Gain: 5150-5250MHz:1.47dBi, 5725-5850MHz:1.42dBi					
Note2: E.I.R.P = Measured Power + Antenna Gain					

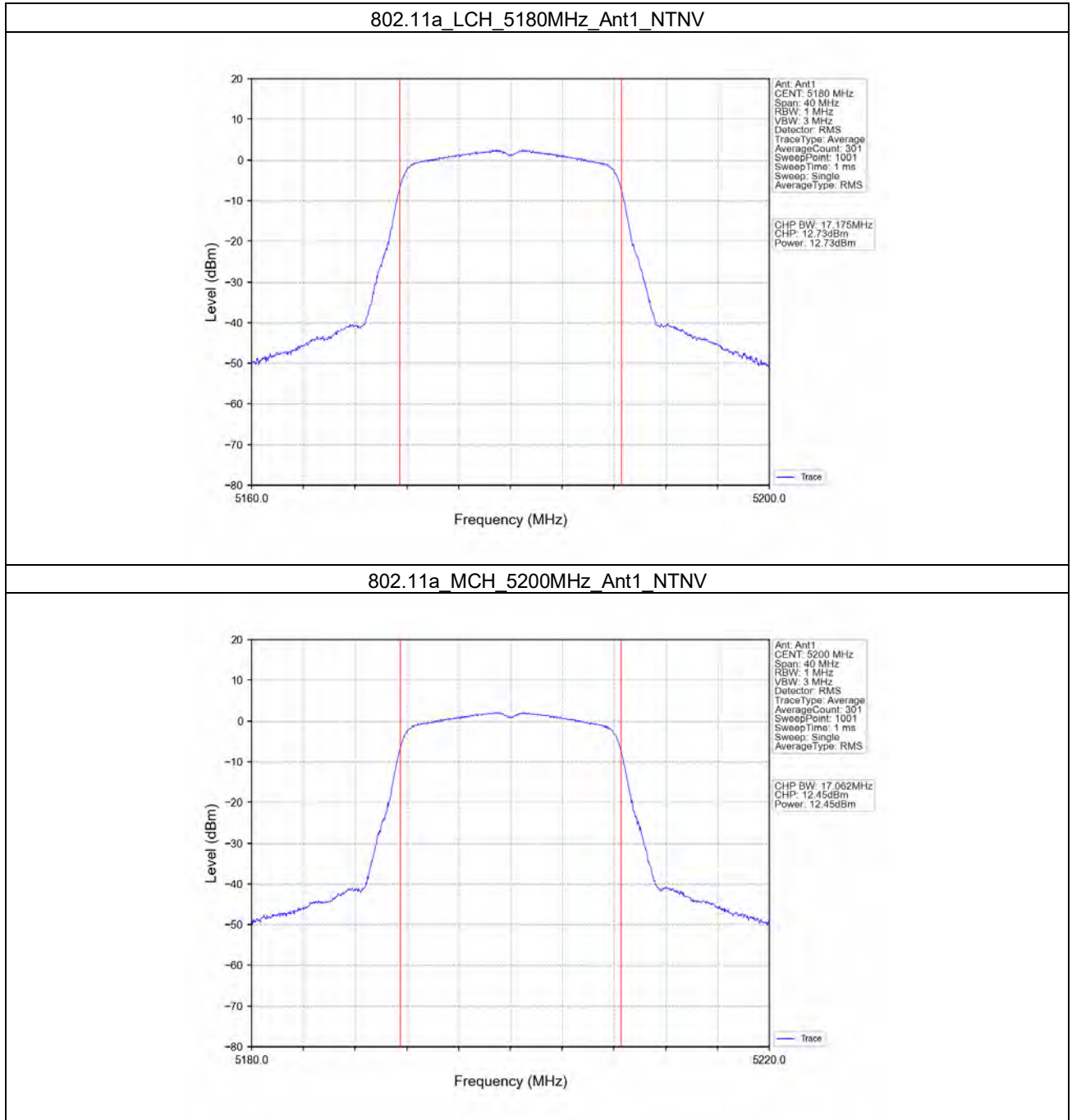


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3.2.2 Test Graph

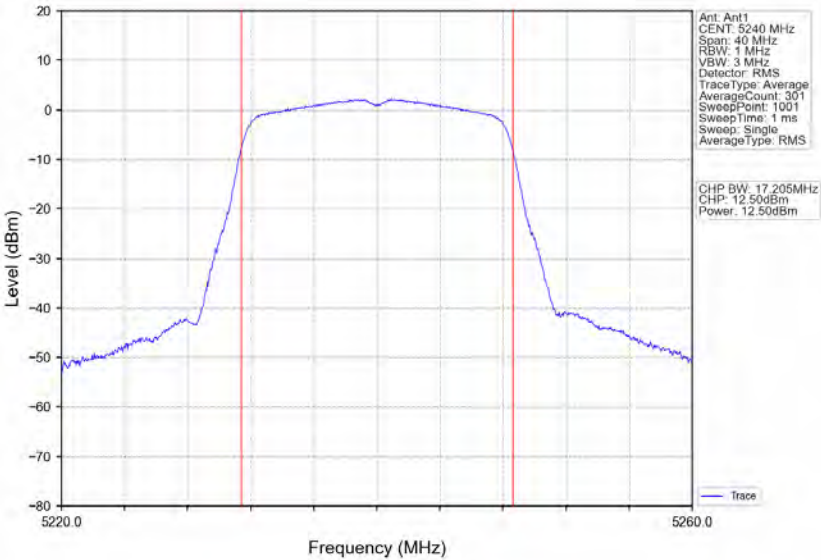


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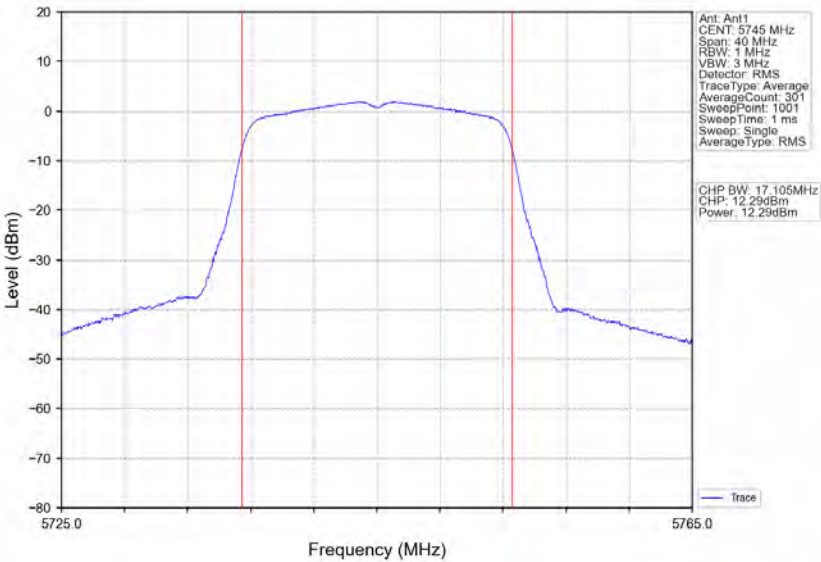
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802.11a HCH 5240MHz Ant1 NTN



802.11a LCH 5745MHz Ant1 NTN

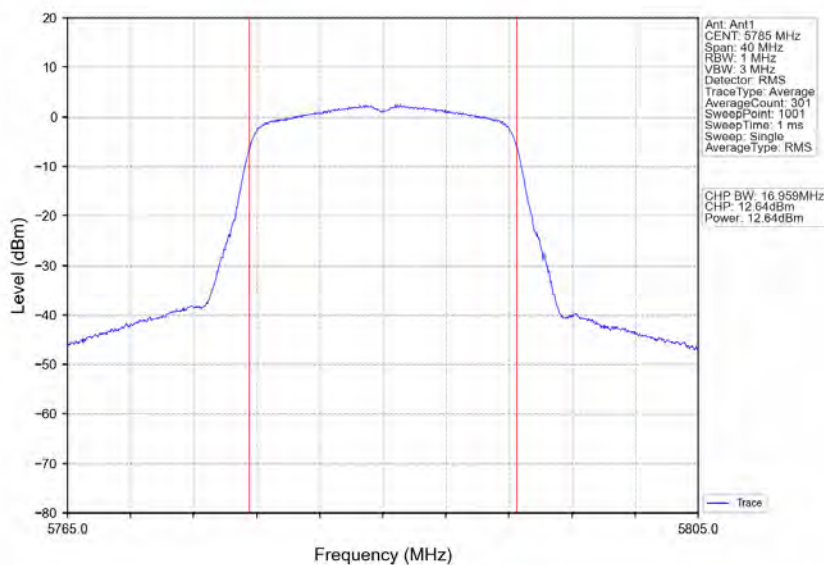


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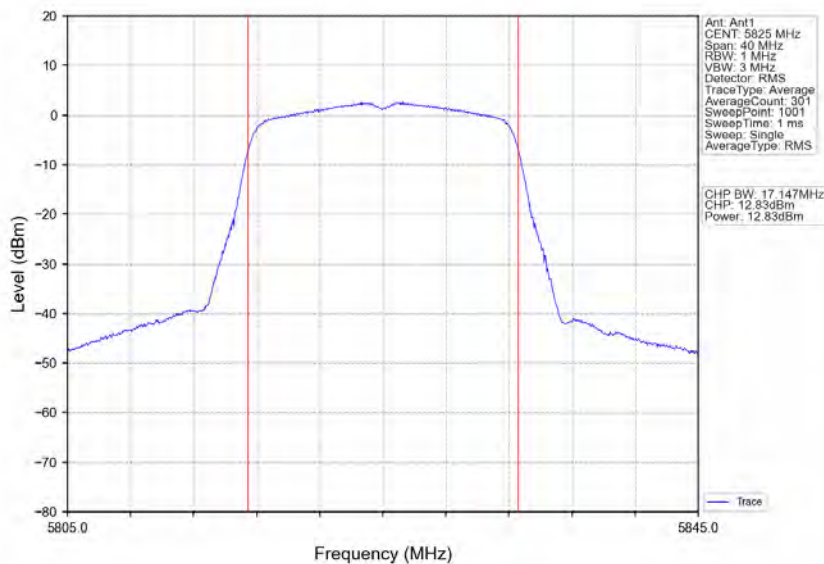
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802.11a MCH 5785MHz Ant1 NTN



802.11a HCH 5825MHz Ant1 NTN

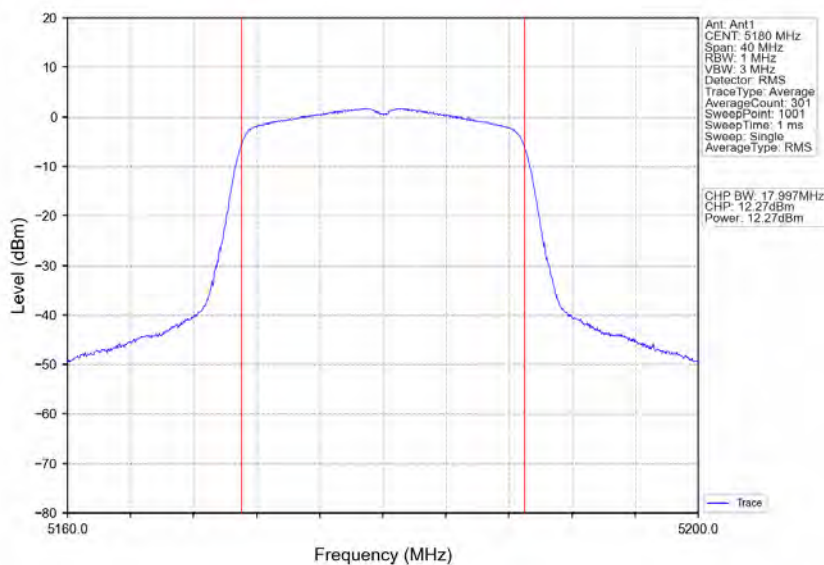


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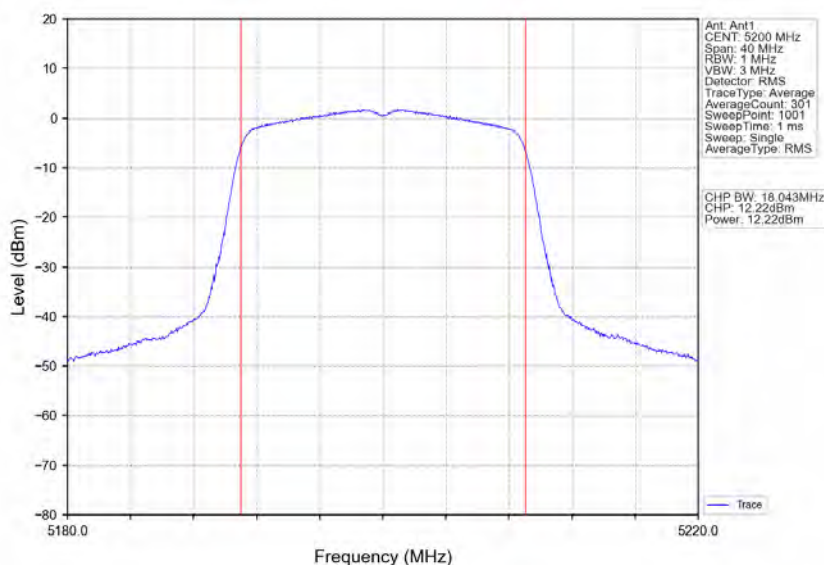
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802.11n(HT20) LCH 5180MHz Ant1 NTN



802.11n(HT20) MCH 5200MHz Ant1 NTN

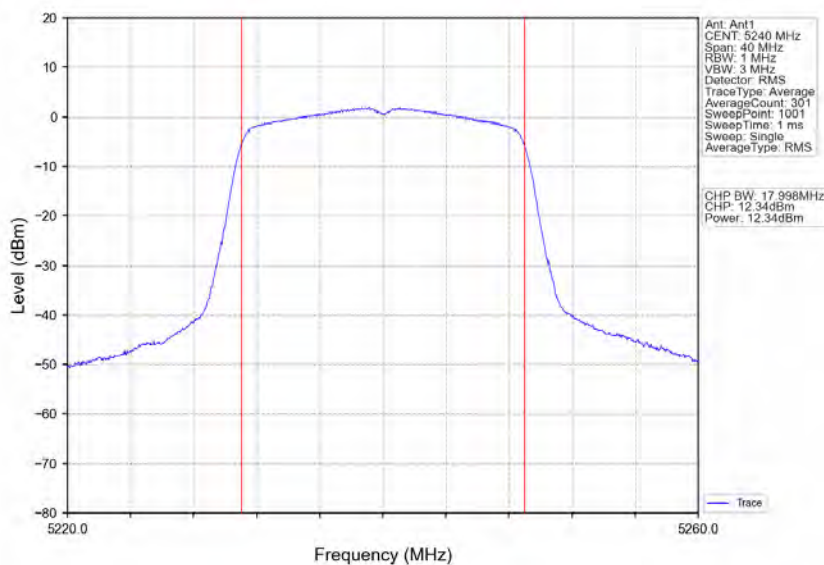


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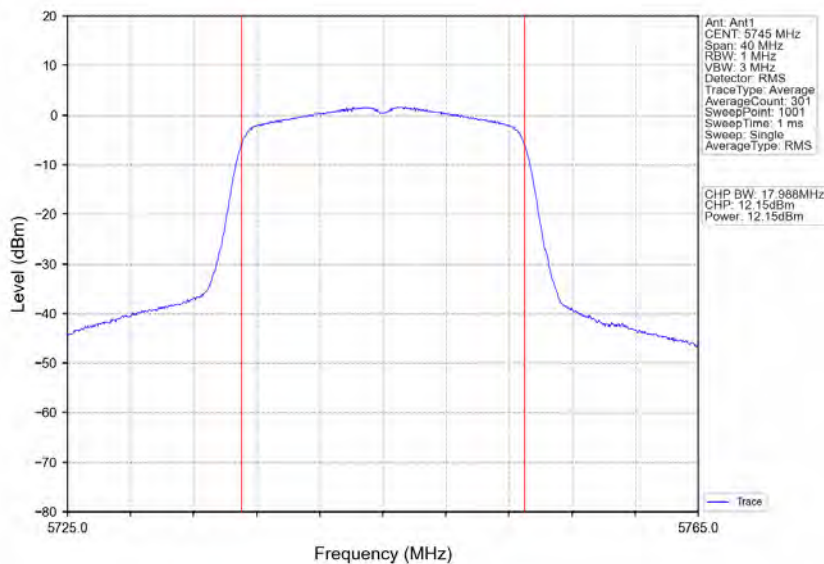
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802.11n(HT20) HCH 5240MHz Ant1 NTN



802.11n(HT20) LCH 5745MHz Ant1 NTN

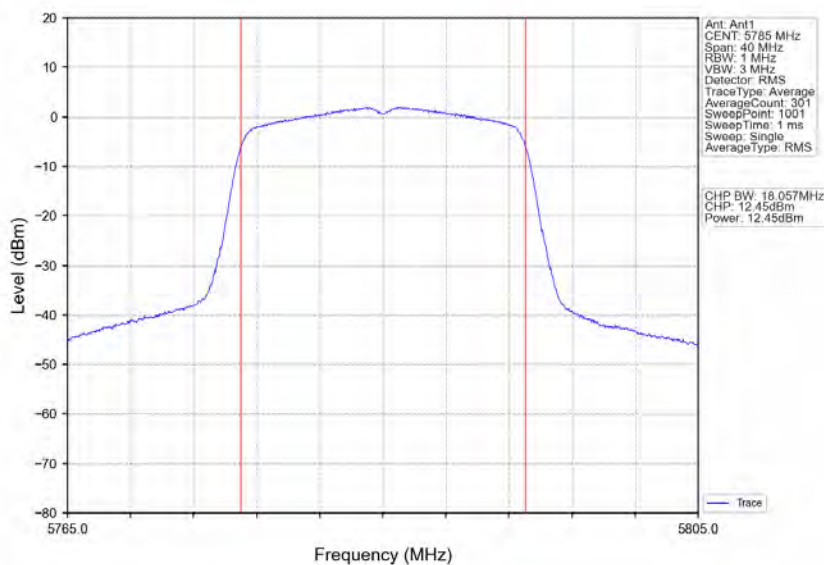


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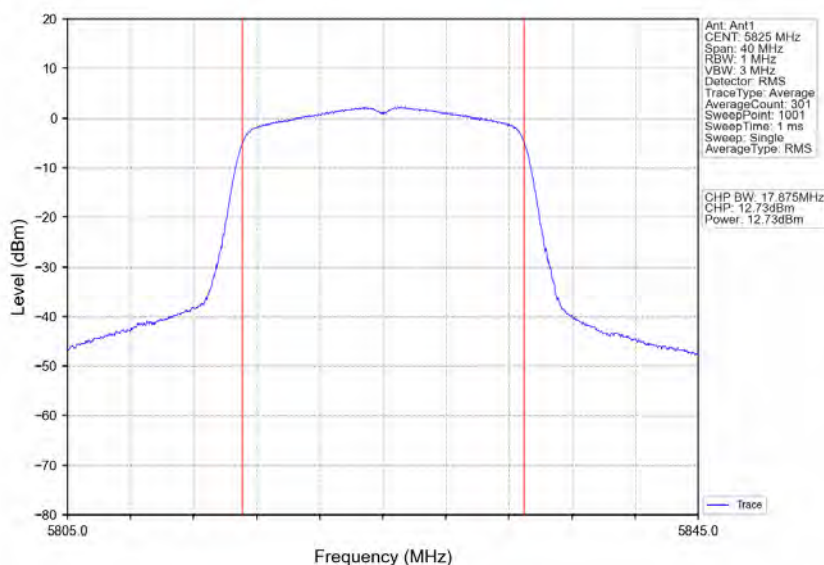
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802.11n(HT20) MCH 5785MHz Ant1 NTN



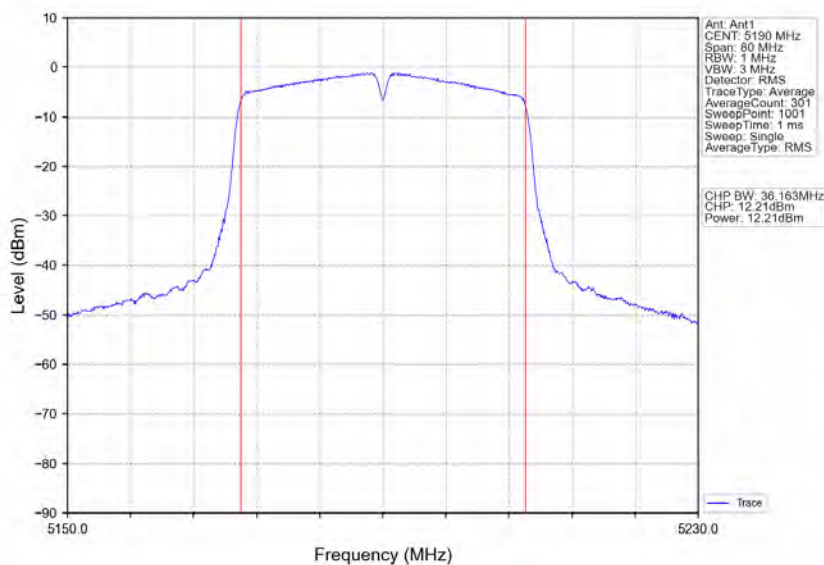
802.11n(HT20) HCH 5825MHz Ant1 NTN



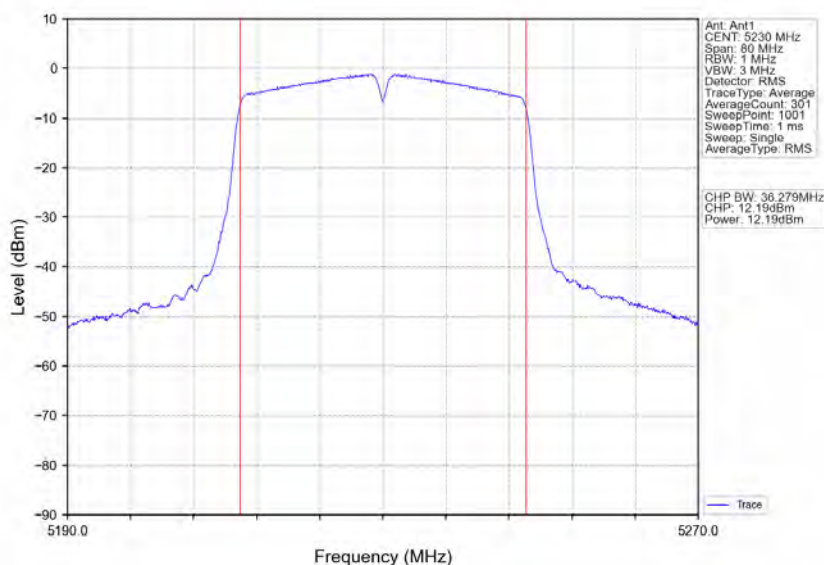
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802.11n(HT40) LCH 5190MHz Ant1 NTNV



802.11n(HT40) HCH 5230MHz Ant1 NTNV

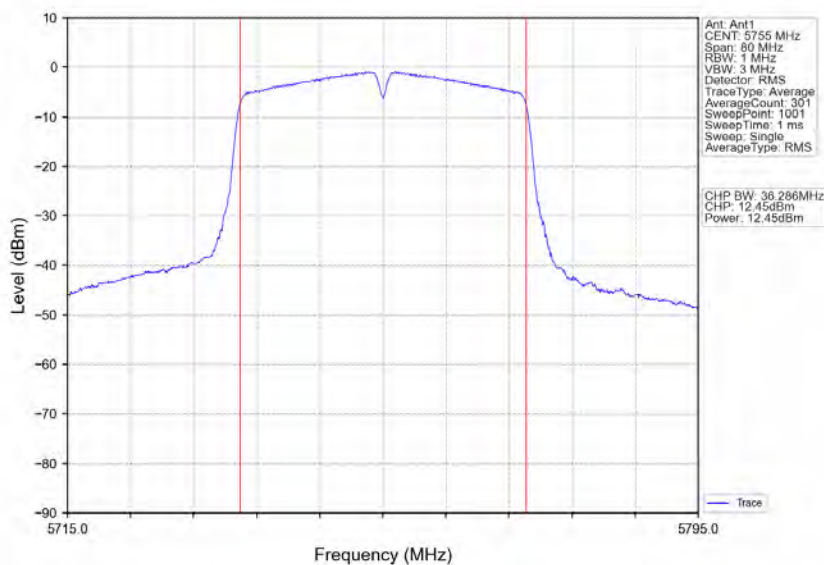


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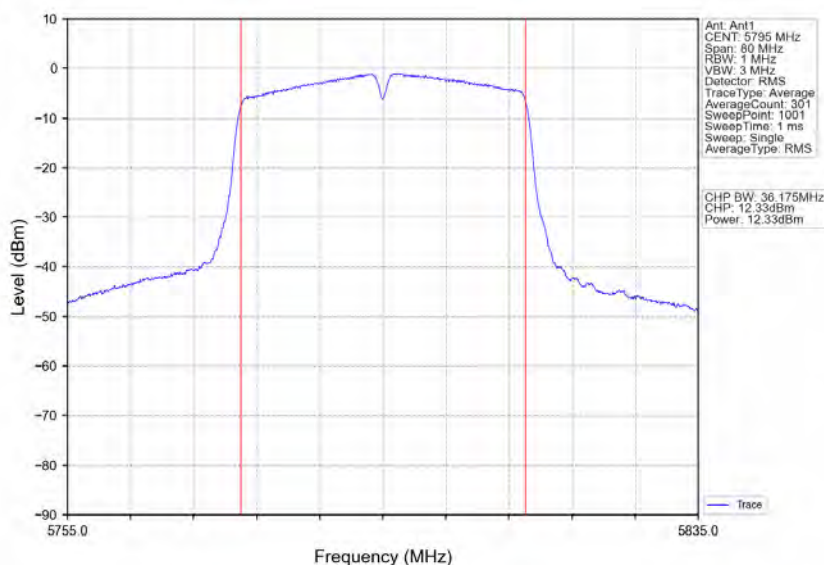
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802.11n(HT40) LCH 5755MHz Ant1 NTNV



802.11n(HT40) HCH 5795MHz Ant1 NTNV

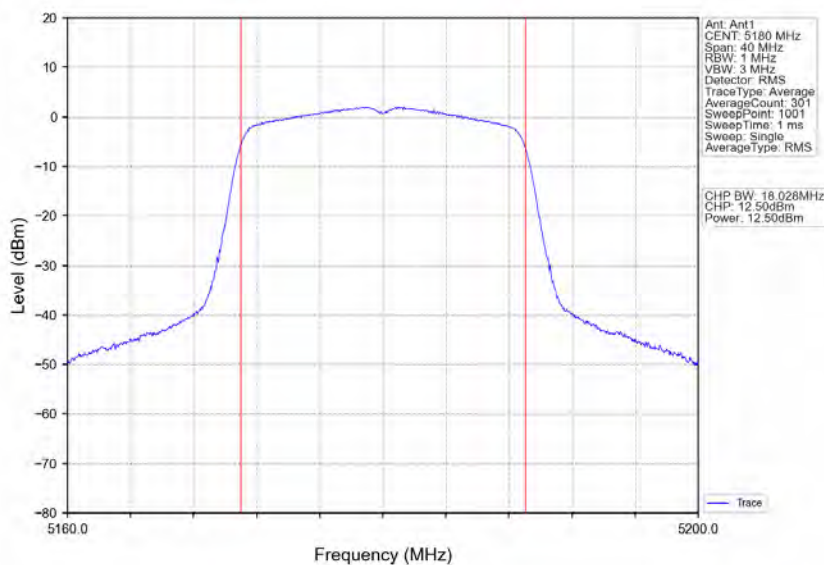


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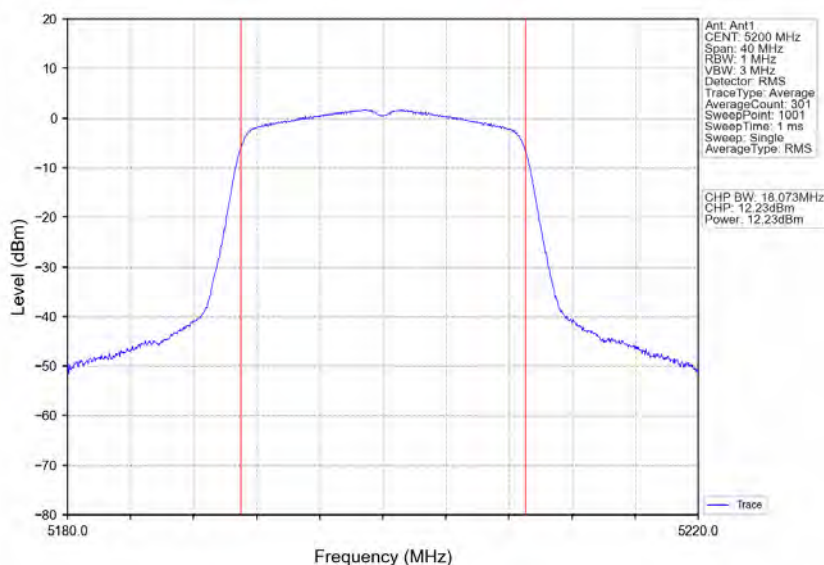
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802.11ac(VHT20) LCH 5180MHz Ant1 NTN



802.11ac(VHT20) MCH 5200MHz Ant1 NTN

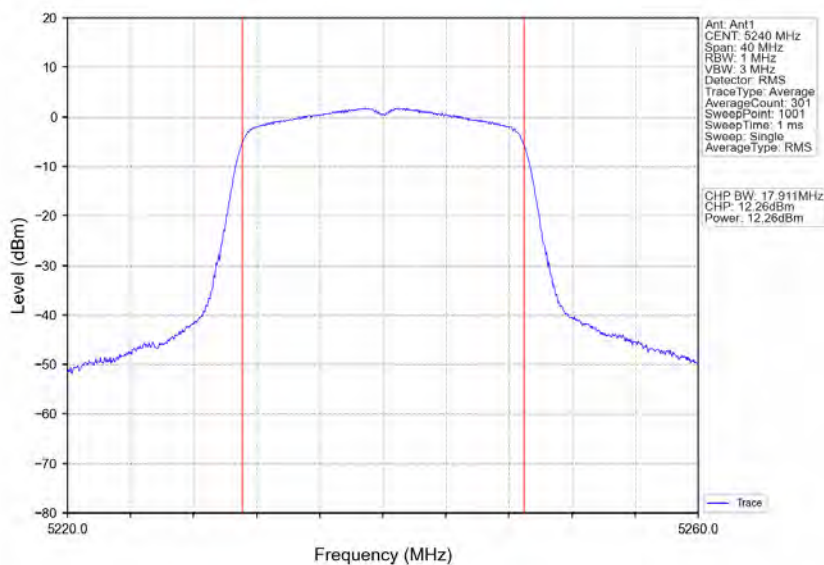


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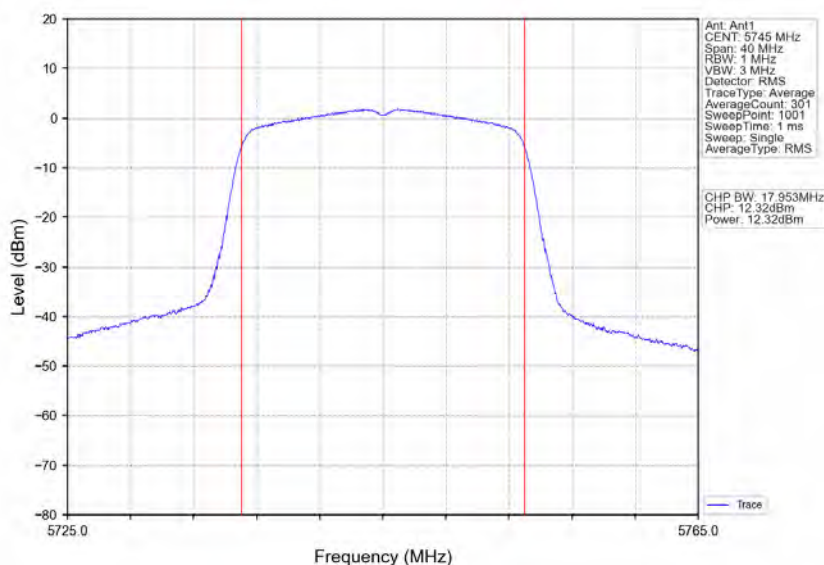
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802.11ac(VHT20) HCH 5240MHz Ant1 NTN



802.11ac(VHT20) LCH 5745MHz Ant1 NTN

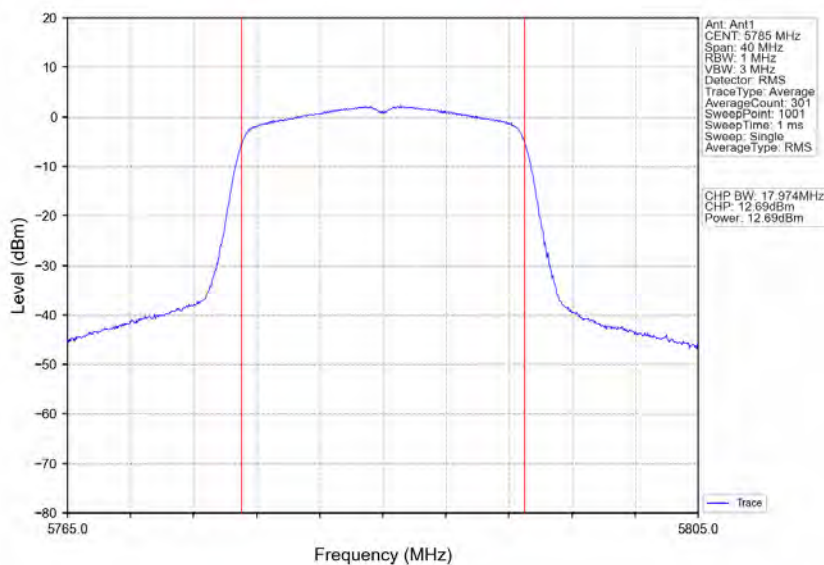


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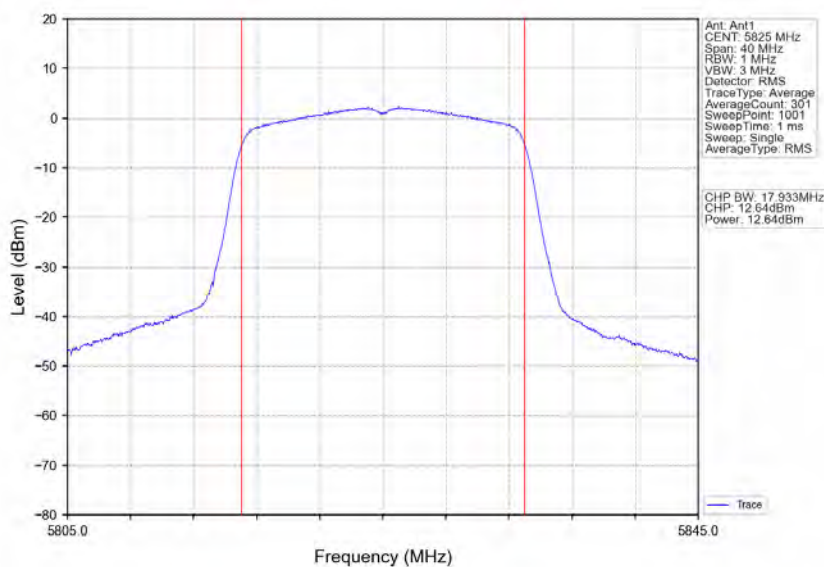
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802.11ac(VHT20) MCH 5785MHz Ant1 NTV



802.11ac(VHT20) HCH 5825MHz Ant1 NTV

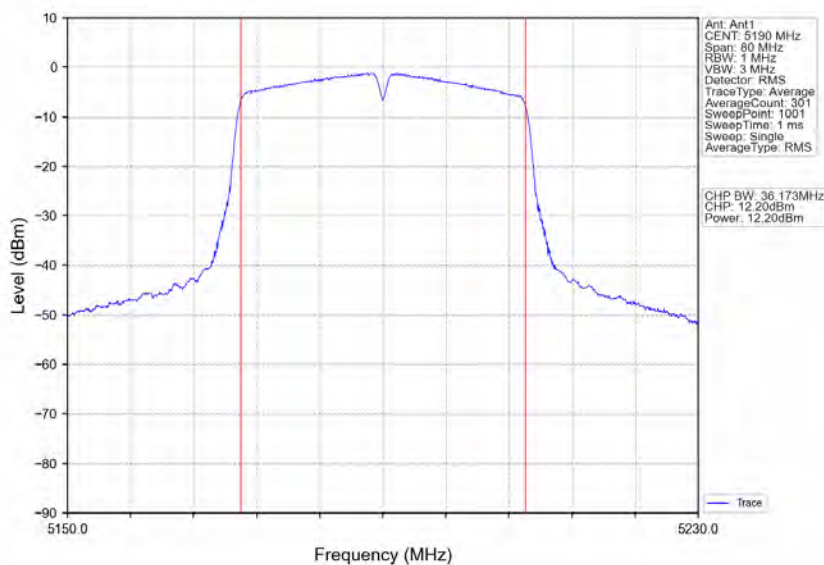


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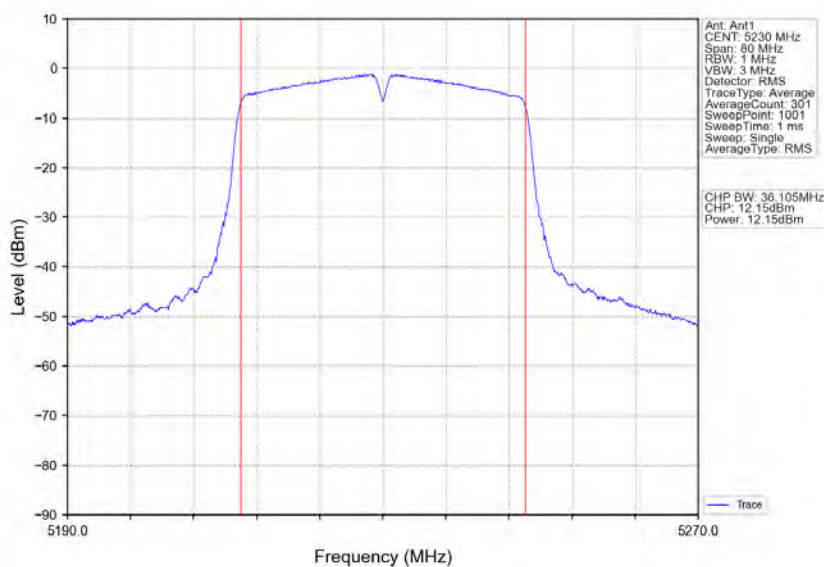
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802.11ac(VHT40) LCH 5190MHz Ant1 NTV



802.11ac(VHT40) HCH 5230MHz Ant1 NTV

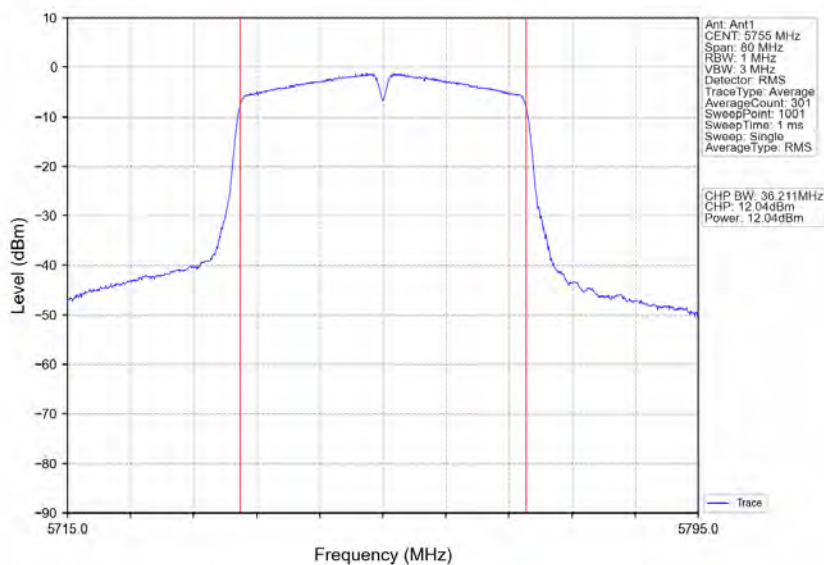


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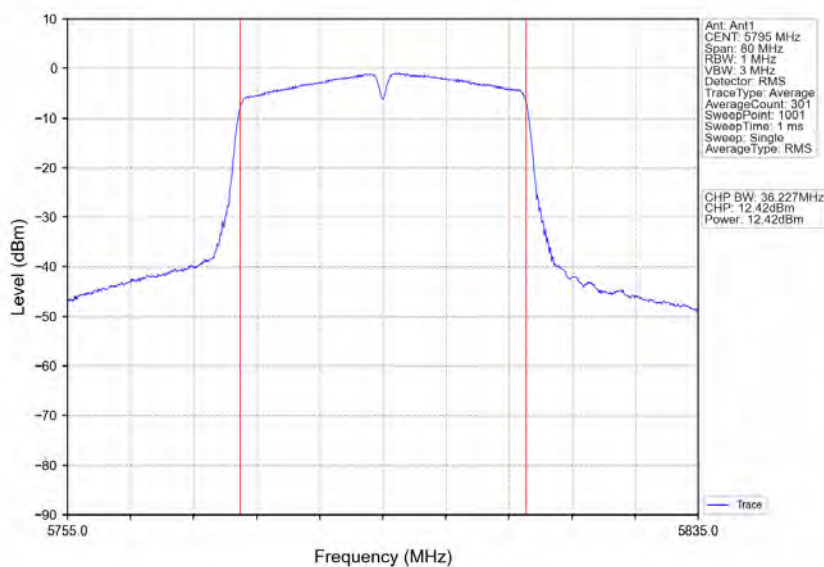
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802.11ac(VHT40) LCH 5755MHz Ant1 NTV



802.11ac(VHT40) HCH 5795MHz Ant1 NTV

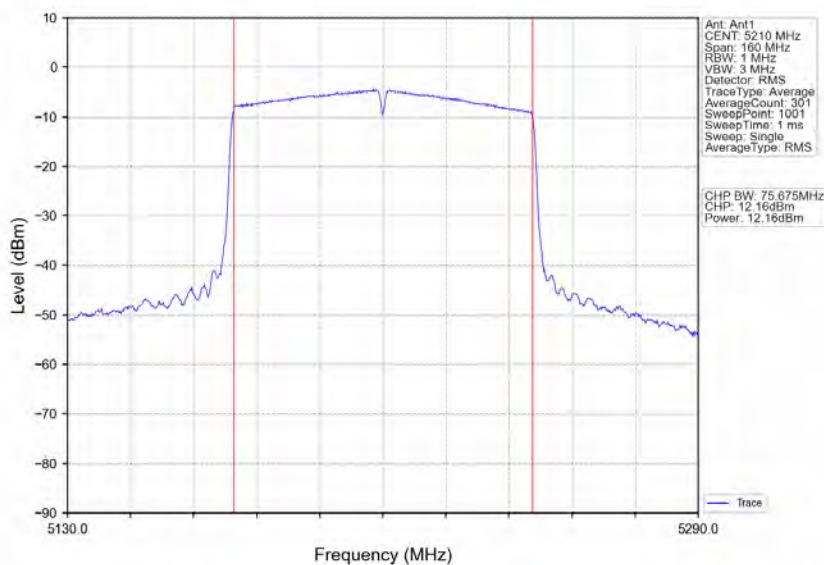


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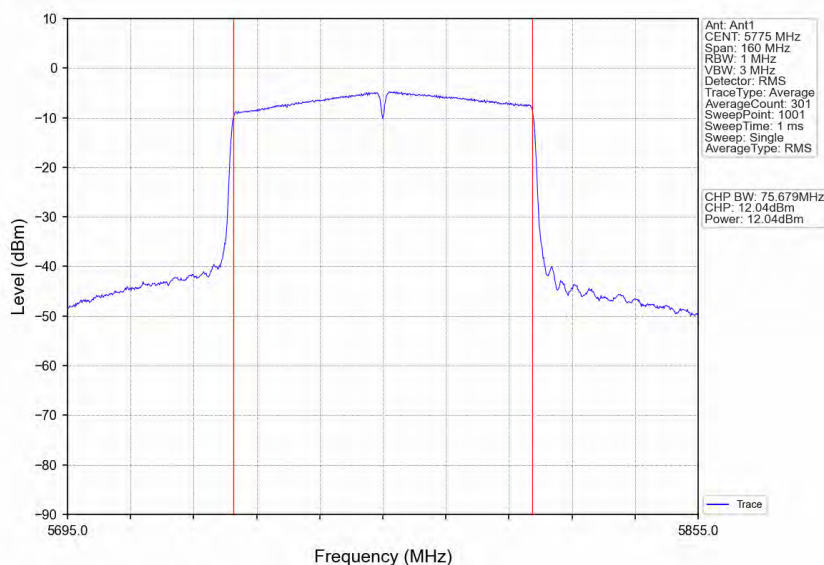
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802.11ac(VHT80) MCH 5210MHz Ant1 NTV



802.11ac(VHT80) MCH 5775MHz Ant1 NTV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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4. Maximum Power Spectral Density

4.1 PSD for FCC

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.57	<=11	Pass
		5200	2.20	<=11	Pass
		5240	2.22	<=11	Pass
802.11n (HT20)	SISO	5180	1.82	<=11	Pass
		5200	1.73	<=11	Pass
		5240	1.99	<=11	Pass
802.11n (HT40)	SISO	5190	-1.00	<=11	Pass
		5230	-1.14	<=11	Pass
802.11ac (VHT20)	SISO	5180	2.10	<=11	Pass
		5200	1.78	<=11	Pass
		5240	1.81	<=11	Pass
802.11ac (VHT40)	SISO	5190	-1.09	<=11	Pass
		5230	-1.16	<=11	Pass
802.11ac (VHT80)	SISO	5210	-4.44	<=11	Pass

Note1: Antenna Gain: 5150-5250MHz:1.47dBi, 5725-5850MHz:1.42dBi

4.2 E.I.R.PSD for IC

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum E.I.R.PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	4.04	<=10	Pass
		5200	3.67	<=10	Pass
		5240	3.69	<=10	Pass
802.11n (HT20)	SISO	5180	3.29	<=10	Pass
		5200	3.20	<=10	Pass
		5240	3.46	<=10	Pass
802.11n (HT40)	SISO	5190	0.47	<=10	Pass
		5230	0.33	<=10	Pass
802.11ac (VHT20)	SISO	5180	3.57	<=10	Pass
		5200	3.25	<=10	Pass
		5240	3.28	<=10	Pass
802.11ac (VHT40)	SISO	5190	0.38	<=10	Pass
		5230	0.31	<=10	Pass
802.11ac	SISO	5210	-2.97	<=10	Pass



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070804

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(VHT80)					
Note1: Antenna Gain: 5150-5250MHz:1.47dBi, 5725-5850MHz:1.42dBi					
Note2: E.I.R.PSD = Measured PSD + Antenna Gain					

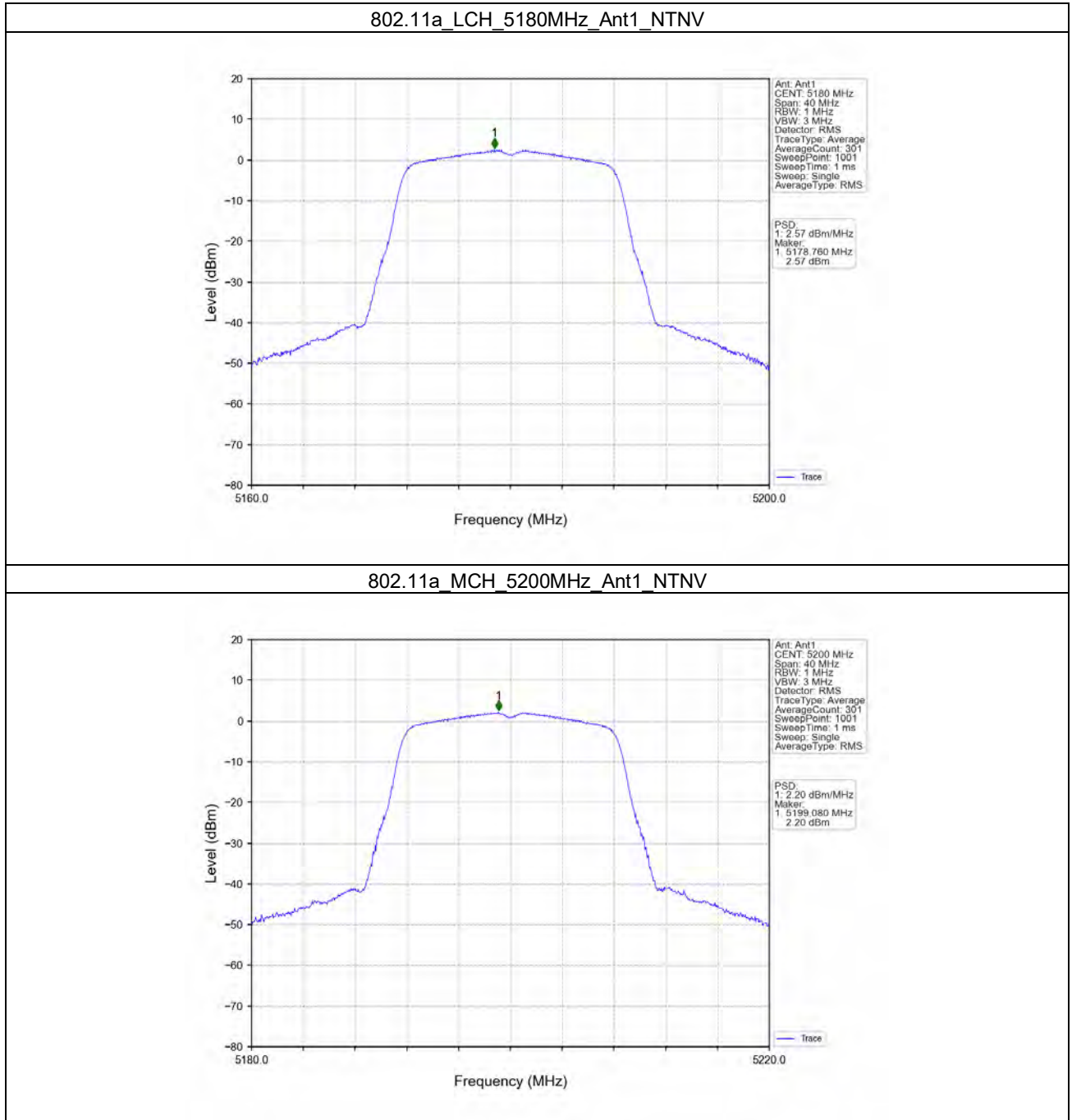


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4.2.2 Test Graph

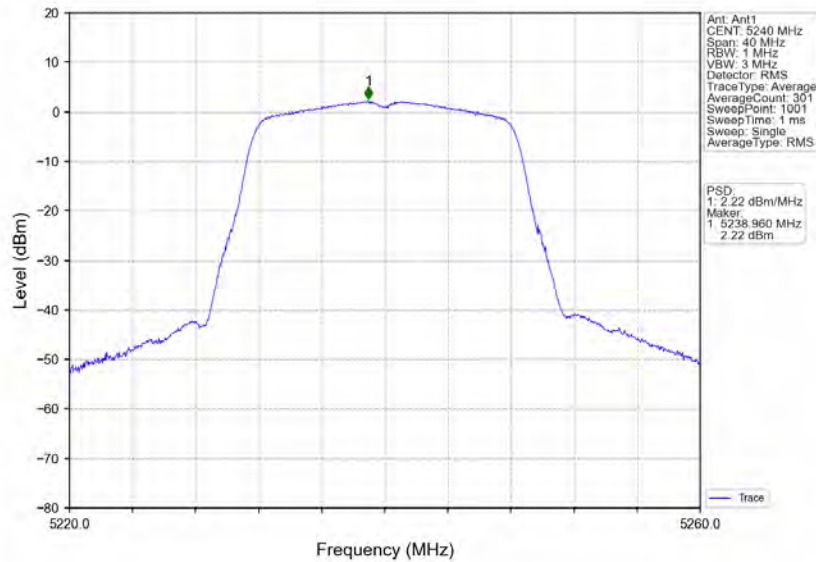


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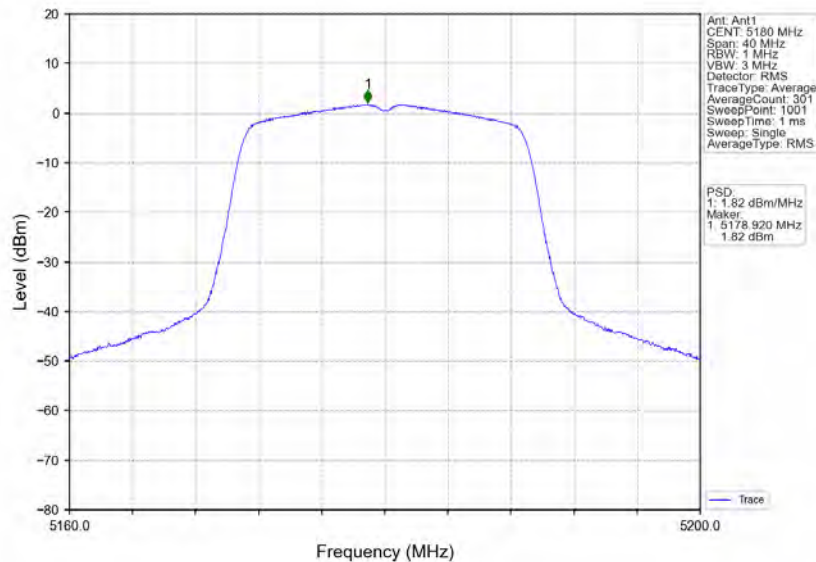
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802.11a HCH 5240MHz Ant1 NTN



802.11n(HT20) LCH 5180MHz Ant1 NTN

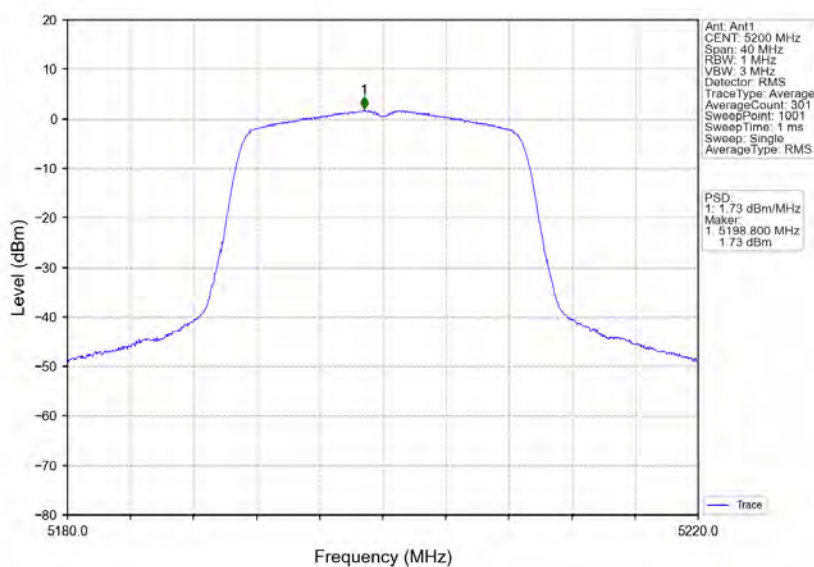


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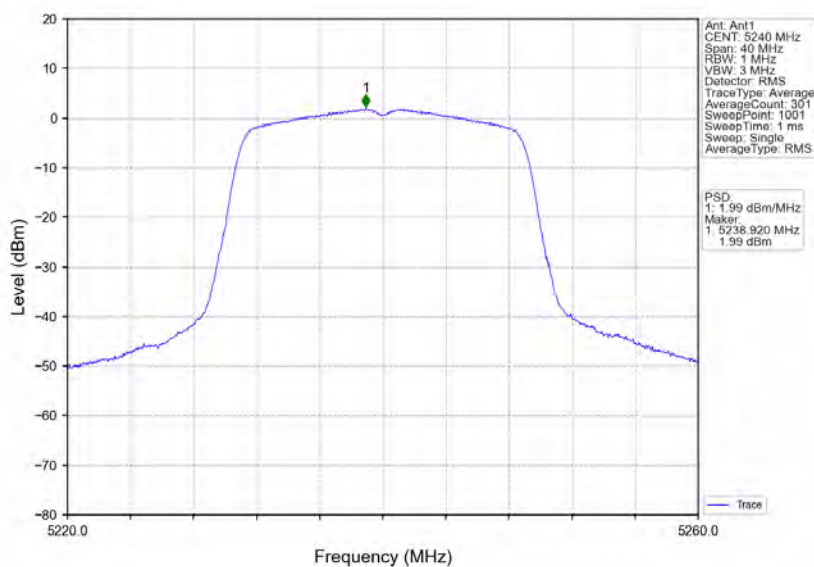
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802.11n(HT20) MCH 5200MHz Ant1 NTNV



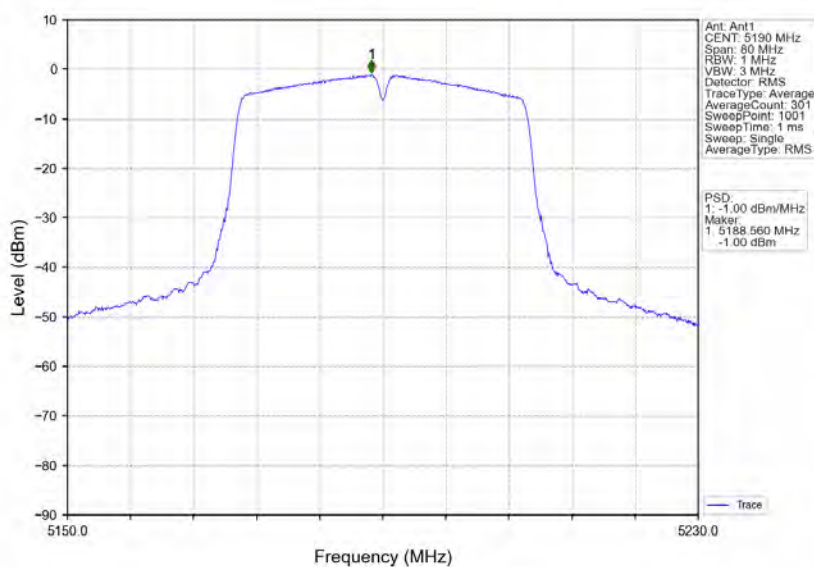
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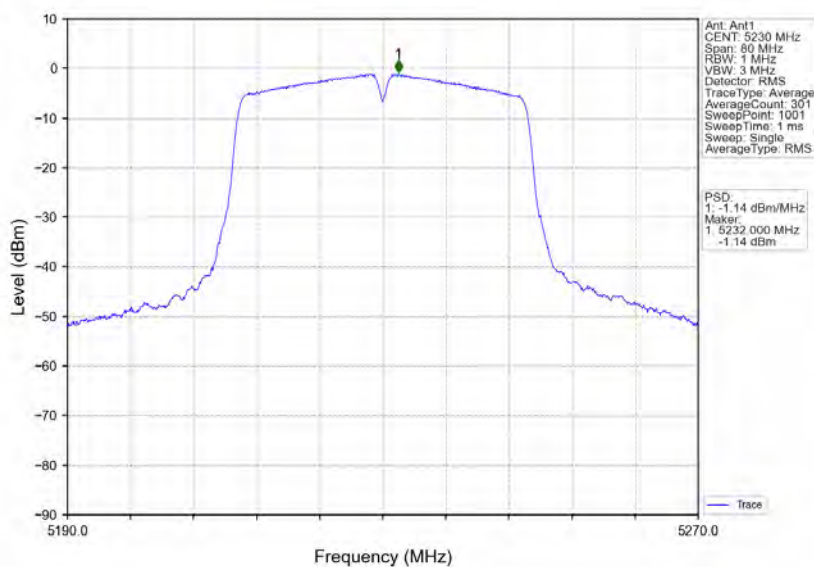
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802.11n(HT40) LCH 5190MHz Ant1 NTNV



802.11n(HT40) HCH 5230MHz Ant1 NTNV

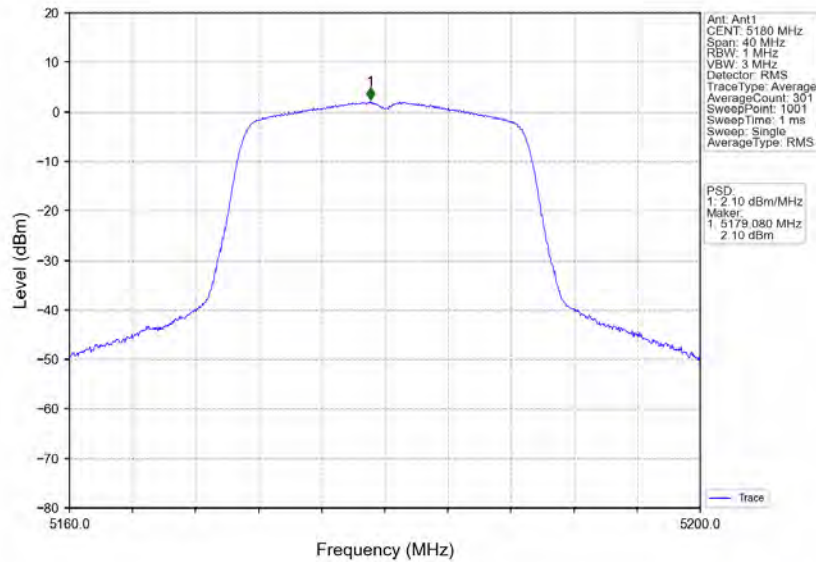


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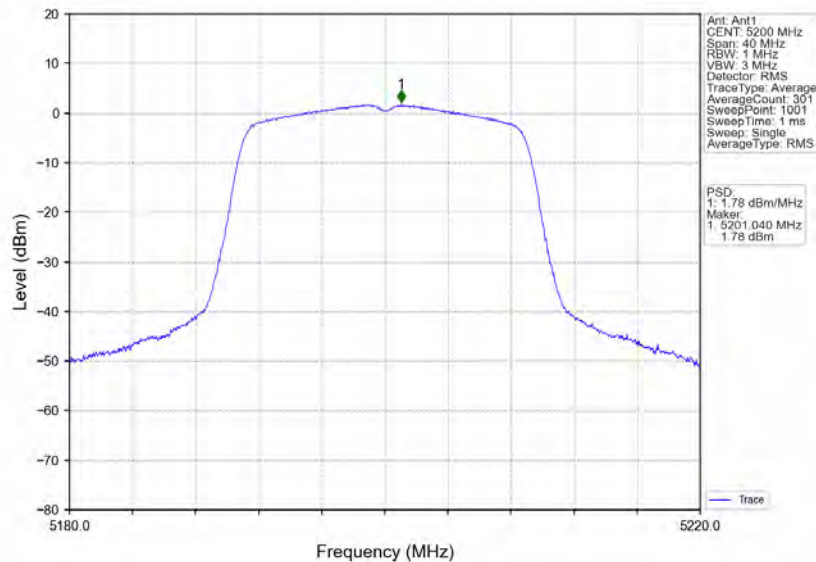
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802.11ac(VHT20) LCH 5180MHz Ant1 NTV



802.11ac(VHT20) MCH 5200MHz Ant1 NTV

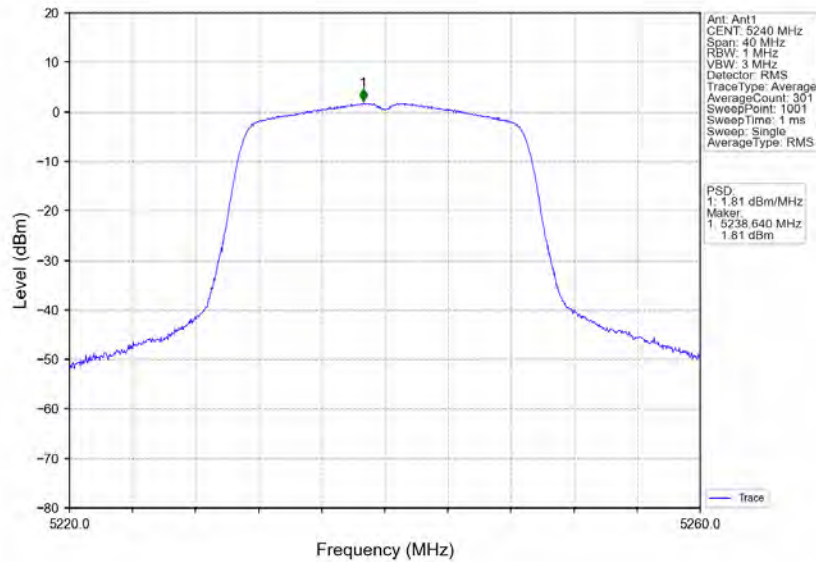


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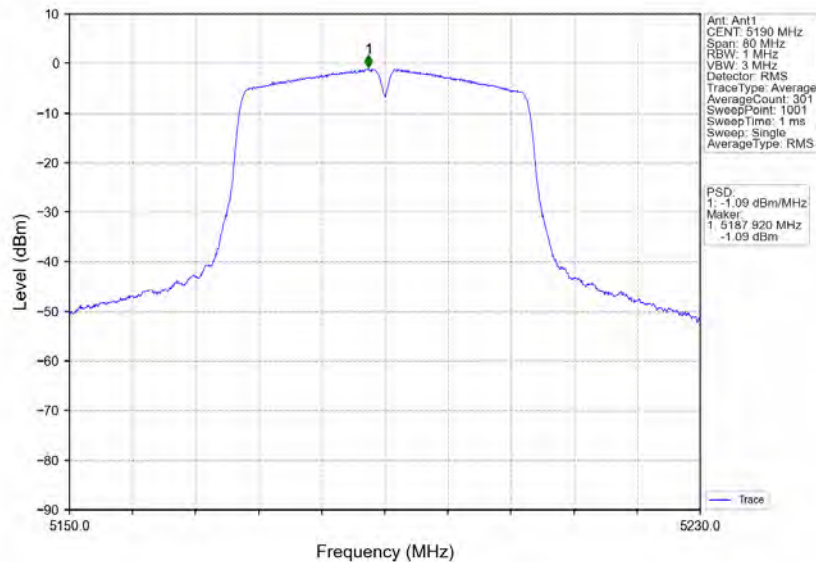
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802.11ac(VHT20) HCH 5240MHz Ant1 NTV



802.11ac(VHT40) LCH 5190MHz Ant1 NTV

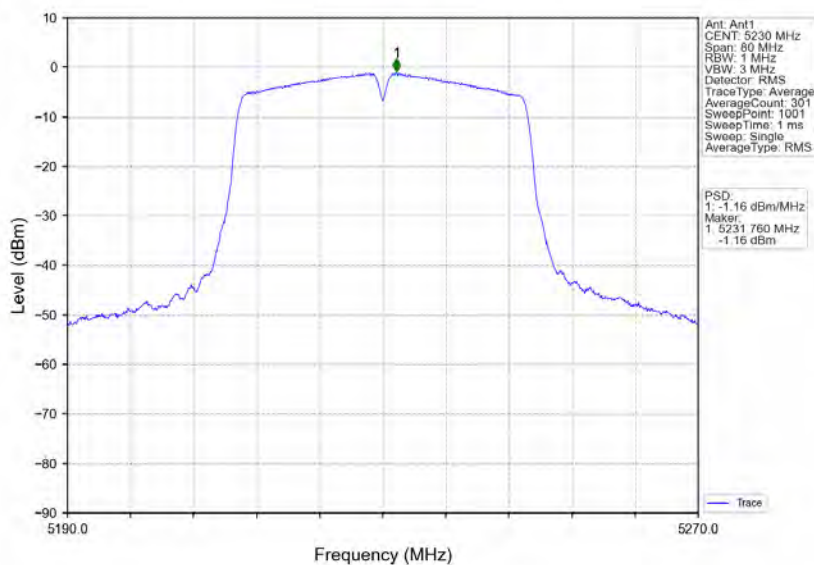


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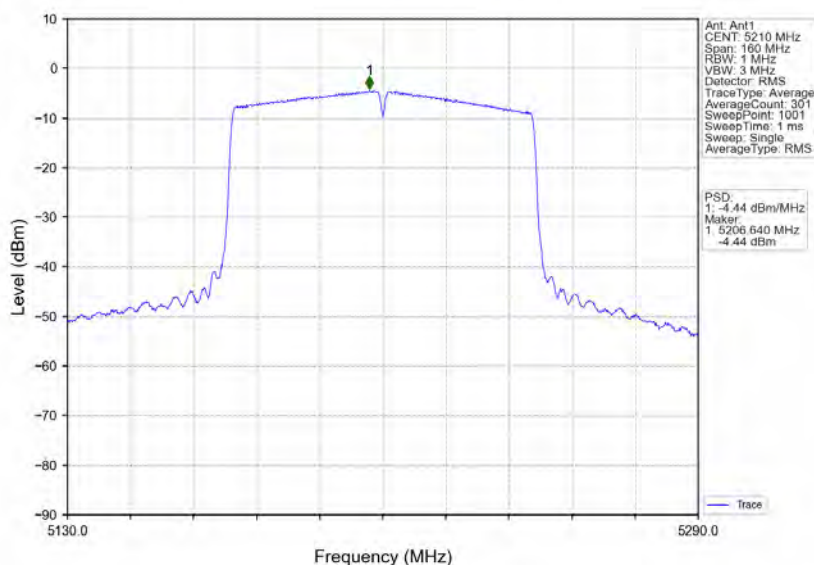
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802.11ac(VHT40) HCH 5230MHz Ant1 NTV



802.11ac(VHT80) MCH 5210MHz Ant1 NTV



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4.3 PSD-Band3

4.3.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-0.86	<=30	Pass
		5785	-0.39	<=30	Pass
		5825	-0.12	<=30	Pass
802.11n (HT20)	SISO	5745	-1.09	<=30	Pass
		5785	-0.76	<=30	Pass
		5825	-0.35	<=30	Pass
802.11n (HT40)	SISO	5755	-3.86	<=30	Pass
		5795	-3.94	<=30	Pass
802.11ac (VHT20)	SISO	5745	-0.92	<=30	Pass
		5785	-0.58	<=30	Pass
		5825	-0.57	<=30	Pass
802.11ac (VHT40)	SISO	5755	-4.02	<=30	Pass
		5795	-3.92	<=30	Pass
802.11ac (VHT80)	SISO	5775	-7.72	<=30	Pass

Note1: Antenna Gain: 5150-5250MHz:1.47dBi, 5725-5850MHz:1.42dBi

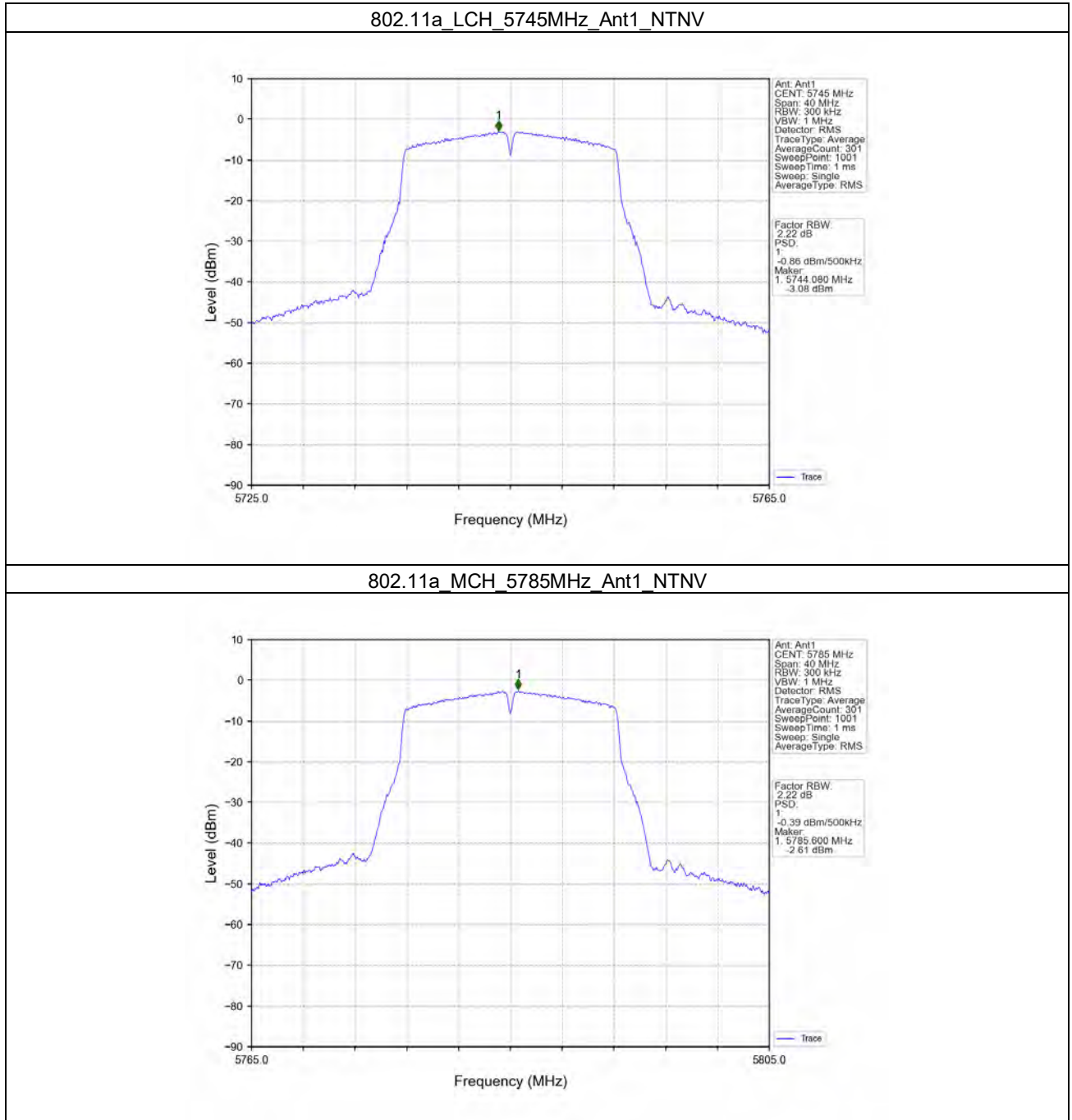


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4.3.2 Test Graph

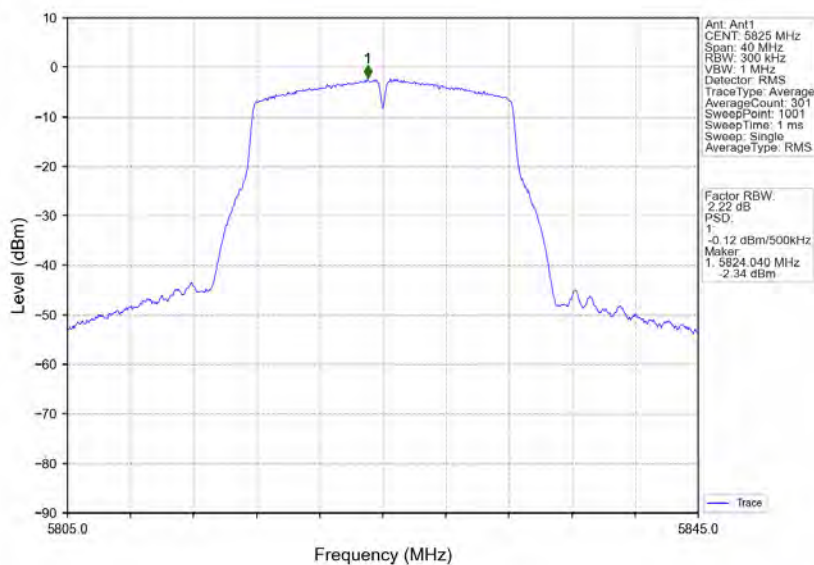


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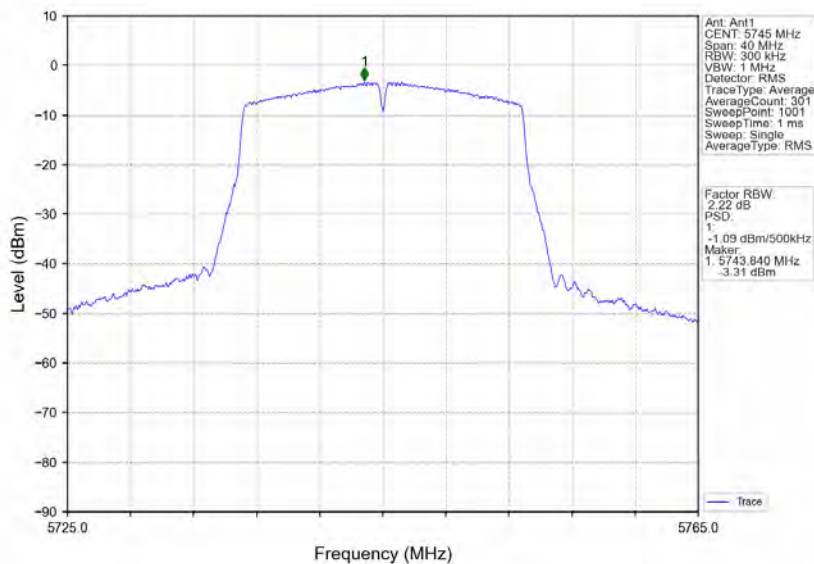
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802.11a HCH 5825MHz Ant1 NTN



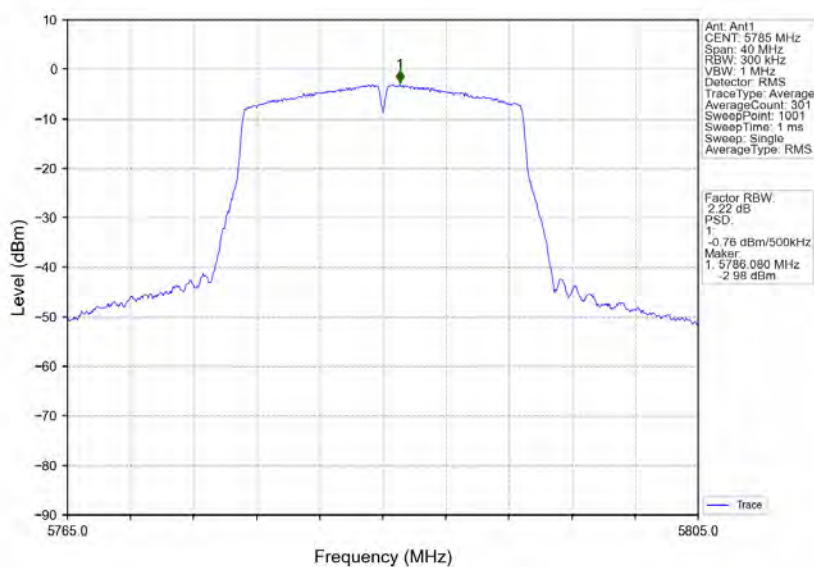
802.11n(HT20) LCH 5745MHz Ant1 NTN



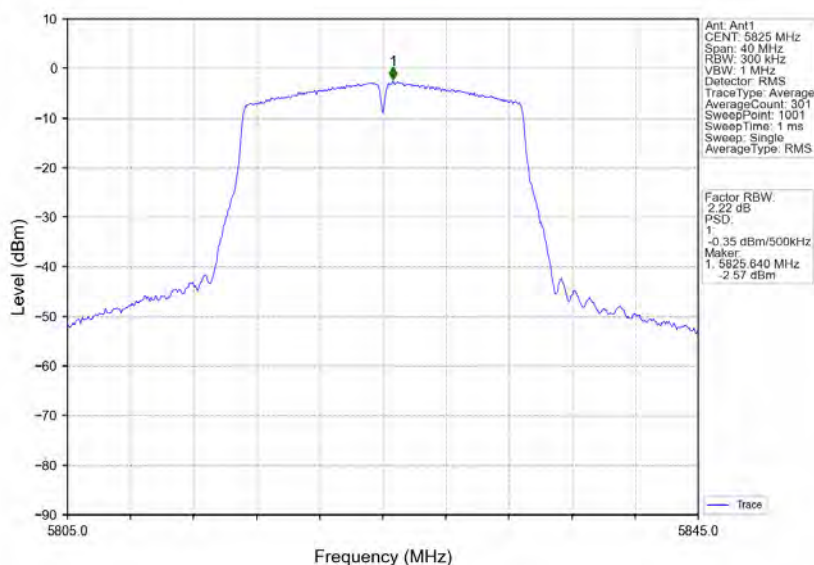
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802.11n(HT20) MCH 5785MHz Ant1 NTNV



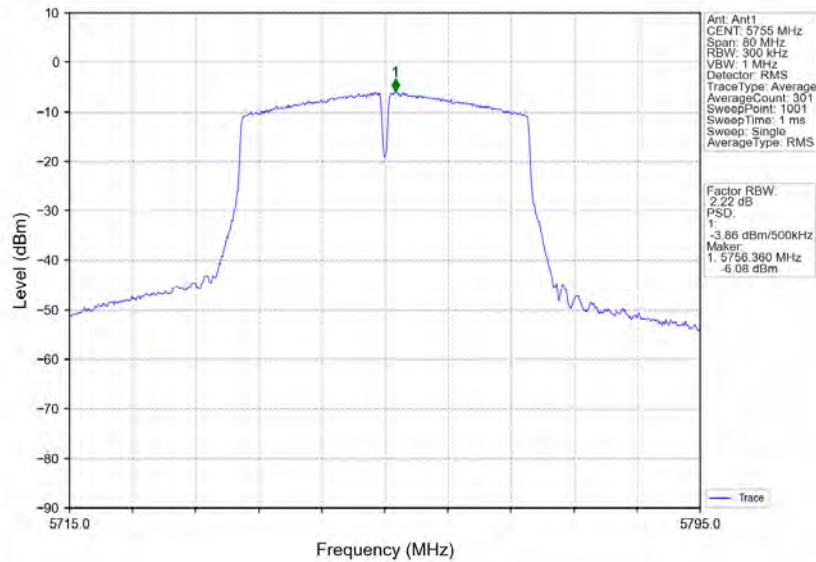
802.11n(HT20) HCH 5825MHz Ant1 NTNV



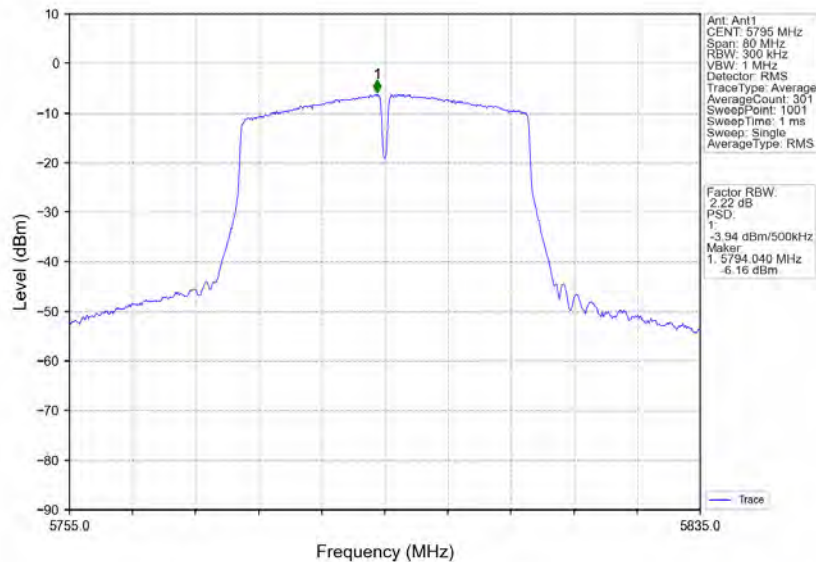
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802.11n(HT40) LCH 5755MHz Ant1 NTNV



802.11n(HT40) HCH 5795MHz Ant1 NTNV

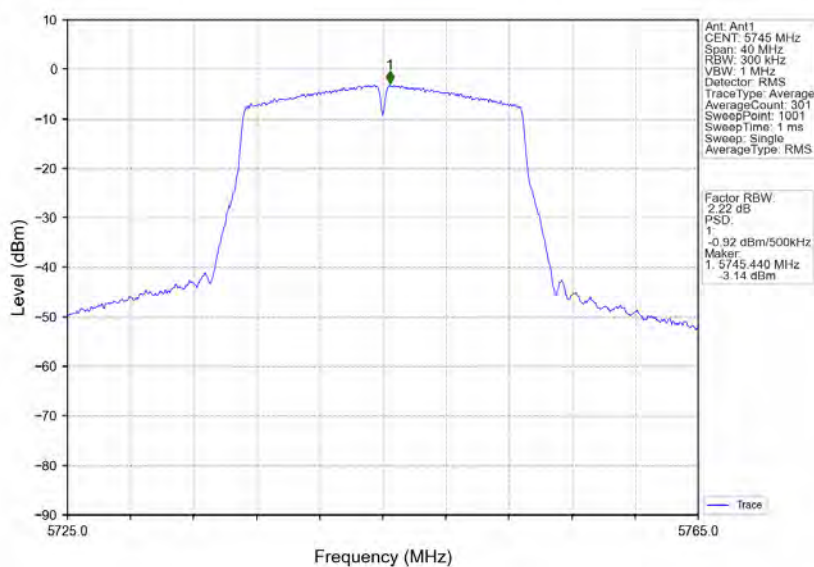


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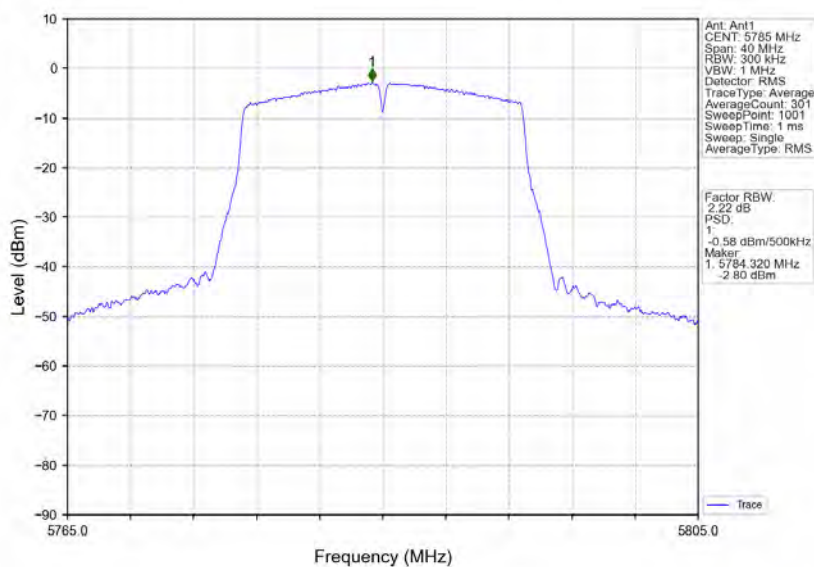
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802.11ac(VHT20) LCH 5745MHz Ant1 NTVN



802.11ac(VHT20) MCH 5785MHz Ant1 NTVN

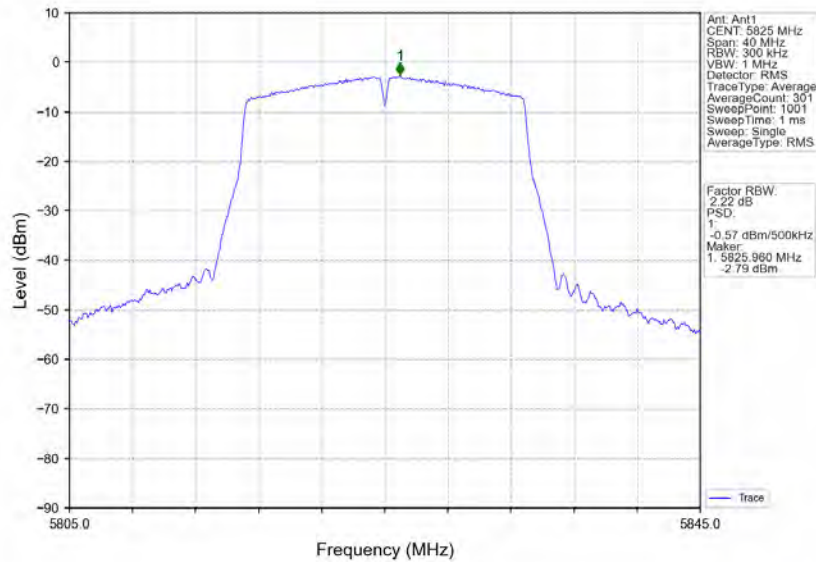


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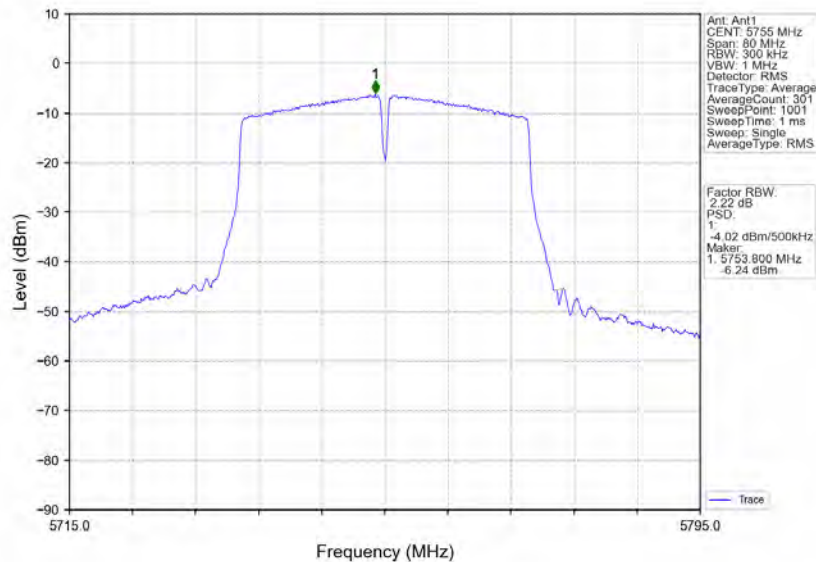
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802.11ac(VHT20) HCH 5825MHz Ant1 NTV



802.11ac(VHT40) LCH 5755MHz Ant1 NTV

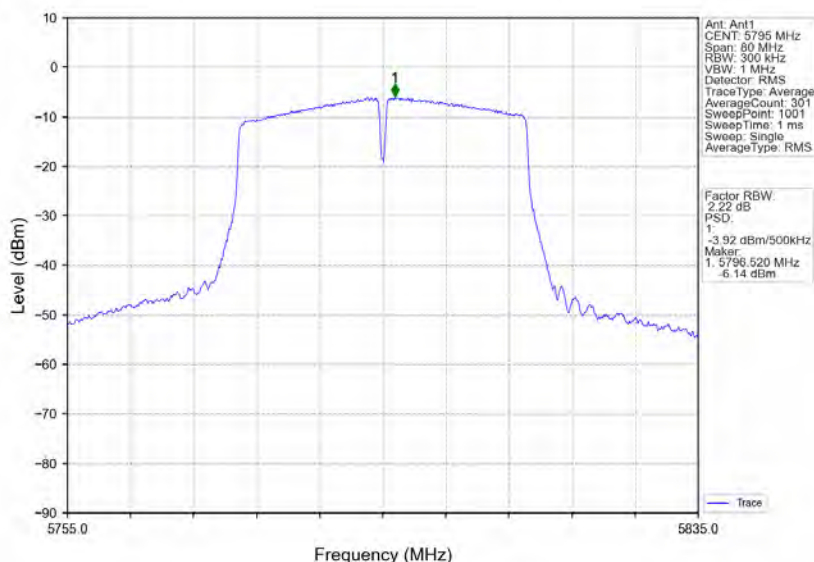


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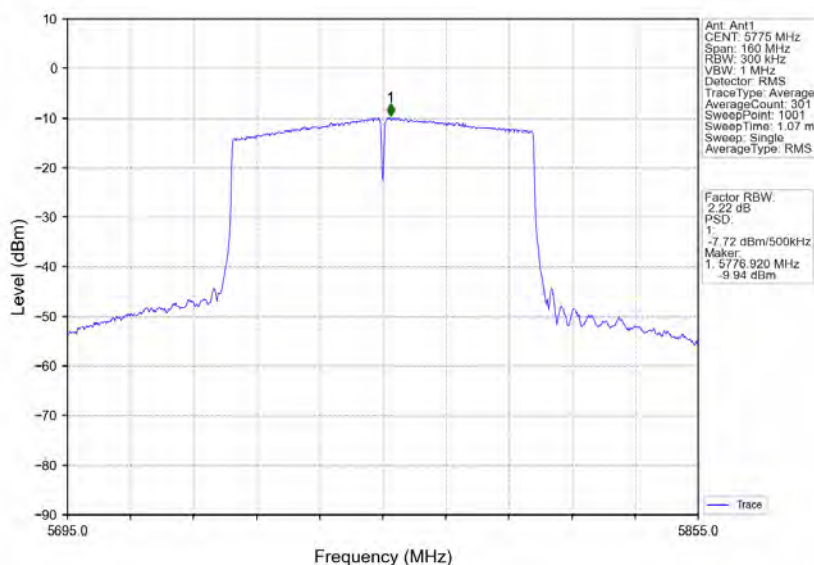
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802.11ac(VHT40) HCH 5795MHz Ant1 NTV



802.11ac(VHT80) MCH 5775MHz Ant1 NTV



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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	100	5180.000	5150 to 5250	Pass
				120	5179.920	5150 to 5250	Pass
				240	5179.980	5150 to 5250	Pass
			-30	120	5180.060	5150 to 5250	Pass
			-20	120	5180.060	5150 to 5250	Pass
			-10	120	5179.960	5150 to 5250	Pass
			0	120	5179.980	5150 to 5250	Pass
			10	120	5180.060	5150 to 5250	Pass
			30	120	5180.040	5150 to 5250	Pass
			40	120	5179.980	5150 to 5250	Pass
			50	120	5180.000	5150 to 5250	Pass
		5200	20	100	5199.980	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				240	5200.100	5150 to 5250	Pass
			-30	120	5200.020	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5200.020	5150 to 5250	Pass
			0	120	5199.880	5150 to 5250	Pass
			10	120	5199.880	5150 to 5250	Pass
			30	120	5199.980	5150 to 5250	Pass
			40	120	5199.980	5150 to 5250	Pass
			50	120	5200.060	5150 to 5250	Pass
		5240	20	100	5240.080	5150 to 5250	Pass
				120	5239.980	5150 to 5250	Pass
				240	5240.000	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
			-20	120	5239.940	5150 to 5250	Pass
			-10	120	5240.080	5150 to 5250	Pass
			0	120	5240.000	5150 to 5250	Pass
			10	120	5240.060	5150 to 5250	Pass
			30	120	5239.980	5150 to 5250	Pass
			40	120	5239.920	5150 to 5250	Pass
			50	120	5239.960	5150 to 5250	Pass
		5745	20	100	5745.000	5725 to 5850	Pass
				120	5744.940	5725 to 5850	Pass
				240	5744.940	5725 to 5850	Pass



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			-30	120	5745.000	5725 to 5850	Pass
			-20	120	5744.900	5725 to 5850	Pass
			-10	120	5744.980	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5745.020	5725 to 5850	Pass
			30	120	5745.060	5725 to 5850	Pass
			40	120	5744.900	5725 to 5850	Pass
			50	120	5745.060	5725 to 5850	Pass
		5785	20	100	5785.020	5725 to 5850	Pass
				120	5785.020	5725 to 5850	Pass
				240	5785.000	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
			-20	120	5784.980	5725 to 5850	Pass
			-10	120	5785.000	5725 to 5850	Pass
			0	120	5784.940	5725 to 5850	Pass
			10	120	5785.040	5725 to 5850	Pass
			30	120	5785.060	5725 to 5850	Pass
			40	120	5784.960	5725 to 5850	Pass
			50	120	5785.080	5725 to 5850	Pass
		5825	20	100	5825.060	5725 to 5850	Pass
				120	5825.020	5725 to 5850	Pass
				240	5825.040	5725 to 5850	Pass
			-30	120	5825.080	5725 to 5850	Pass
			-20	120	5824.980	5725 to 5850	Pass
			-10	120	5825.060	5725 to 5850	Pass
			0	120	5825.020	5725 to 5850	Pass
			10	120	5824.940	5725 to 5850	Pass
			30	120	5825.060	5725 to 5850	Pass
			40	120	5824.980	5725 to 5850	Pass
			50	120	5824.940	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	100	5180.000	5150 to 5250	Pass
				120	5179.920	5150 to 5250	Pass
				240	5180.000	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5179.980	5150 to 5250	Pass
			-10	120	5179.920	5150 to 5250	Pass
			0	120	5179.960	5150 to 5250	Pass
			10	120	5179.980	5150 to 5250	Pass
			30	120	5179.960	5150 to 5250	Pass
			40	120	5180.000	5150 to 5250	Pass
			50	120	5179.960	5150 to 5250	Pass
		5200	20	100	5199.980	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
				240	5199.940	5150 to 5250	Pass
			-30	120	5200.000	5150 to 5250	Pass
			-20	120	5199.940	5150 to 5250	Pass



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			-10	120	5199.960	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5200.000	5150 to 5250	Pass
			30	120	5200.000	5150 to 5250	Pass
			40	120	5199.980	5150 to 5250	Pass
			50	120	5200.000	5150 to 5250	Pass
		5240	20	100	5239.960	5150 to 5250	Pass
				120	5240.000	5150 to 5250	Pass
				240	5239.960	5150 to 5250	Pass
			-30	120	5240.000	5150 to 5250	Pass
			-20	120	5240.000	5150 to 5250	Pass
			-10	120	5240.020	5150 to 5250	Pass
			0	120	5240.080	5150 to 5250	Pass
			10	120	5239.980	5150 to 5250	Pass
			30	120	5239.960	5150 to 5250	Pass
			40	120	5239.940	5150 to 5250	Pass
			50	120	5240.000	5150 to 5250	Pass
		5745	20	100	5744.980	5725 to 5850	Pass
				120	5744.980	5725 to 5850	Pass
				240	5745.020	5725 to 5850	Pass
			-30	120	5745.020	5725 to 5850	Pass
			-20	120	5745.020	5725 to 5850	Pass
			-10	120	5744.940	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5744.960	5725 to 5850	Pass
			30	120	5744.940	5725 to 5850	Pass
			40	120	5744.980	5725 to 5850	Pass
			50	120	5745.040	5725 to 5850	Pass
		5785	20	100	5784.980	5725 to 5850	Pass
				120	5785.040	5725 to 5850	Pass
				240	5784.940	5725 to 5850	Pass
			-30	120	5785.000	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass
			-10	120	5785.040	5725 to 5850	Pass
			0	120	5785.020	5725 to 5850	Pass
			10	120	5785.060	5725 to 5850	Pass
			30	120	5785.020	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5784.980	5725 to 5850	Pass
		5825	20	100	5824.940	5725 to 5850	Pass
				120	5824.980	5725 to 5850	Pass
				240	5825.020	5725 to 5850	Pass
			-30	120	5825.040	5725 to 5850	Pass
			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5825.020	5725 to 5850	Pass
			0	120	5825.040	5725 to 5850	Pass



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			10	120	5824.880	5725 to 5850	Pass
			30	120	5824.960	5725 to 5850	Pass
			40	120	5825.020	5725 to 5850	Pass
			50	120	5825.000	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	100	5190.000	5150 to 5250	Pass
				120	5189.960	5150 to 5250	Pass
				240	5189.960	5150 to 5250	Pass
			-30	120	5190.000	5150 to 5250	Pass
			-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.000	5150 to 5250	Pass
			0	120	5189.920	5150 to 5250	Pass
			10	120	5189.960	5150 to 5250	Pass
			30	120	5190.000	5150 to 5250	Pass
			40	120	5189.960	5150 to 5250	Pass
			50	120	5189.960	5150 to 5250	Pass
		5230	20	100	5230.040	5150 to 5250	Pass
				120	5229.960	5150 to 5250	Pass
				240	5230.000	5150 to 5250	Pass
			-30	120	5230.000	5150 to 5250	Pass
			-20	120	5230.000	5150 to 5250	Pass
			-10	120	5229.960	5150 to 5250	Pass
			0	120	5229.960	5150 to 5250	Pass
			10	120	5230.000	5150 to 5250	Pass
			30	120	5230.000	5150 to 5250	Pass
			40	120	5229.960	5150 to 5250	Pass
			50	120	5230.000	5150 to 5250	Pass
		5755	20	100	5754.960	5725 to 5850	Pass
				120	5755.040	5725 to 5850	Pass
				240	5754.960	5725 to 5850	Pass
			-30	120	5755.000	5725 to 5850	Pass
			-20	120	5755.000	5725 to 5850	Pass
			-10	120	5755.000	5725 to 5850	Pass
			0	120	5754.960	5725 to 5850	Pass
			10	120	5754.960	5725 to 5850	Pass
			30	120	5754.960	5725 to 5850	Pass
			40	120	5755.000	5725 to 5850	Pass
			50	120	5755.040	5725 to 5850	Pass
		5795	20	100	5795.040	5725 to 5850	Pass
				120	5795.000	5725 to 5850	Pass
				240	5795.040	5725 to 5850	Pass
			-30	120	5795.080	5725 to 5850	Pass
			-20	120	5795.080	5725 to 5850	Pass
			-10	120	5795.080	5725 to 5850	Pass
			0	120	5795.040	5725 to 5850	Pass
			10	120	5795.000	5725 to 5850	Pass
			30	120	5794.920	5725 to 5850	Pass



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802.11ac (VHT20)	SISO	5180	40	120	5795.040	5725 to 5850	Pass
			50	120	5795.040	5725 to 5850	Pass
			20	100	5180.000	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
				240	5180.000	5150 to 5250	Pass
			-30	120	5179.940	5150 to 5250	Pass
			-20	120	5180.000	5150 to 5250	Pass
			-10	120	5179.980	5150 to 5250	Pass
			0	120	5180.000	5150 to 5250	Pass
			10	120	5179.940	5150 to 5250	Pass
			30	120	5179.980	5150 to 5250	Pass
			40	120	5179.960	5150 to 5250	Pass
			50	120	5180.000	5150 to 5250	Pass
		5200	20	100	5199.960	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
				240	5199.980	5150 to 5250	Pass
			-30	120	5200.000	5150 to 5250	Pass
			-20	120	5199.940	5150 to 5250	Pass
			-10	120	5199.980	5150 to 5250	Pass
			0	120	5199.980	5150 to 5250	Pass
			10	120	5199.920	5150 to 5250	Pass
			30	120	5200.060	5150 to 5250	Pass
			40	120	5200.000	5150 to 5250	Pass
			50	120	5199.980	5150 to 5250	Pass
		5240	20	100	5239.980	5150 to 5250	Pass
				120	5239.900	5150 to 5250	Pass
				240	5240.060	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
			-20	120	5239.900	5150 to 5250	Pass
			-10	120	5240.000	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5239.920	5150 to 5250	Pass
			30	120	5240.020	5150 to 5250	Pass
			40	120	5240.000	5150 to 5250	Pass
			50	120	5239.980	5150 to 5250	Pass
		5745	20	100	5745.020	5725 to 5850	Pass
				120	5744.940	5725 to 5850	Pass
				240	5745.020	5725 to 5850	Pass
			-30	120	5745.000	5725 to 5850	Pass
			-20	120	5744.920	5725 to 5850	Pass
			-10	120	5744.980	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5745.000	5725 to 5850	Pass
			30	120	5744.980	5725 to 5850	Pass
			40	120	5745.040	5725 to 5850	Pass
			50	120	5745.000	5725 to 5850	Pass



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		5785	20	100	5784.960	5725 to 5850	Pass
				120	5784.980	5725 to 5850	Pass
				240	5785.000	5725 to 5850	Pass
			-30	120	5785.000	5725 to 5850	Pass
			-20	120	5784.960	5725 to 5850	Pass
			-10	120	5784.980	5725 to 5850	Pass
			0	120	5785.000	5725 to 5850	Pass
			10	120	5785.000	5725 to 5850	Pass
			30	120	5785.040	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5784.940	5725 to 5850	Pass
		5825	20	100	5825.120	5725 to 5850	Pass
				120	5825.040	5725 to 5850	Pass
				240	5825.020	5725 to 5850	Pass
			-30	120	5825.020	5725 to 5850	Pass
			-20	120	5824.980	5725 to 5850	Pass
			-10	120	5825.080	5725 to 5850	Pass
			0	120	5825.020	5725 to 5850	Pass
			10	120	5825.020	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
			40	120	5825.000	5725 to 5850	Pass
			50	120	5825.000	5725 to 5850	Pass
802.11ac (VHT40)	SISO	5190	20	100	5189.960	5150 to 5250	Pass
				120	5190.000	5150 to 5250	Pass
				240	5190.000	5150 to 5250	Pass
			-30	120	5190.000	5150 to 5250	Pass
			-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.000	5150 to 5250	Pass
			0	120	5190.000	5150 to 5250	Pass
			10	120	5190.040	5150 to 5250	Pass
			30	120	5189.920	5150 to 5250	Pass
			40	120	5189.960	5150 to 5250	Pass
			50	120	5189.960	5150 to 5250	Pass
		5230	20	100	5230.000	5150 to 5250	Pass
				120	5230.000	5150 to 5250	Pass
				240	5229.920	5150 to 5250	Pass
			-30	120	5230.000	5150 to 5250	Pass
			-20	120	5230.000	5150 to 5250	Pass
			-10	120	5230.000	5150 to 5250	Pass
			0	120	5230.040	5150 to 5250	Pass
			10	120	5230.000	5150 to 5250	Pass
			30	120	5230.040	5150 to 5250	Pass
			40	120	5230.000	5150 to 5250	Pass
			50	120	5230.000	5150 to 5250	Pass
		5755	20	100	5755.080	5725 to 5850	Pass
				120	5755.000	5725 to 5850	Pass



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				240	5754.920	5725 to 5850	Pass
			-30	120	5754.960	5725 to 5850	Pass
			-20	120	5754.960	5725 to 5850	Pass
			-10	120	5755.040	5725 to 5850	Pass
			0	120	5754.960	5725 to 5850	Pass
			10	120	5755.000	5725 to 5850	Pass
			30	120	5755.000	5725 to 5850	Pass
			40	120	5754.960	5725 to 5850	Pass
			50	120	5754.960	5725 to 5850	Pass
		5795	20	100	5795.040	5725 to 5850	Pass
				120	5795.040	5725 to 5850	Pass
				240	5795.000	5725 to 5850	Pass
			-30	120	5795.160	5725 to 5850	Pass
			-20	120	5795.000	5725 to 5850	Pass
			-10	120	5795.000	5725 to 5850	Pass
			0	120	5795.080	5725 to 5850	Pass
			10	120	5795.040	5725 to 5850	Pass
			30	120	5795.080	5725 to 5850	Pass
			40	120	5795.040	5725 to 5850	Pass
			50	120	5795.040	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5210	20	100	5210.000	5150 to 5250	Pass
				120	5209.925	5150 to 5250	Pass
				240	5210.000	5150 to 5250	Pass
			-30	120	5210.000	5150 to 5250	Pass
			-20	120	5209.925	5150 to 5250	Pass
			-10	120	5210.000	5150 to 5250	Pass
			0	120	5210.000	5150 to 5250	Pass
			10	120	5209.925	5150 to 5250	Pass
			30	120	5210.000	5150 to 5250	Pass
			40	120	5210.000	5150 to 5250	Pass
			50	120	5209.925	5150 to 5250	Pass
		5775	20	100	5775.000	5725 to 5850	Pass
				120	5775.075	5725 to 5850	Pass
				240	5775.000	5725 to 5850	Pass
			-30	120	5775.000	5725 to 5850	Pass
			-20	120	5775.075	5725 to 5850	Pass
			-10	120	5775.000	5725 to 5850	Pass
			0	120	5775.000	5725 to 5850	Pass
			10	120	5775.000	5725 to 5850	Pass
			30	120	5775.000	5725 to 5850	Pass
			40	120	5775.000	5725 to 5850	Pass
			50	120	5775.075	5725 to 5850	Pass

Note: The test to AC 100V as minimum voltage and AC 240V as maximum voltage per manufacturer's specification.

- End of the Report -



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