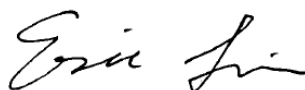


# TEST REPORT

**Application No.:** KSCR2210001906AT  
**FCC ID:** UCZ-W891UA-Z  
**IC:** 8575A-W891UAZ  
**Applicant:** Lorex Technology Inc.  
**Address of Applicant:** 250 Royal crest Court Markham, L3R 3S1 Ontario, Canada.  
**Manufacturer:** Lorex Technology Inc.  
**Address of Manufacturer:** 250 Royal crest Court Markham, L3R 3S1 Ontario, Canada.  
**Equipment Under Test (EUT):**  
**EUT Name:** 12MP Duel-Lens Wi-Fi Camera  
**Model No.:** W891UA-Z, W891UAD-E, W891UAD-F  
☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
RSS-247 Issue 2, February 2017  
RSS-Gen Issue 5 Amendment 2 (February 2021)  
**Date of Receipt:** 2022-10-11  
**Date of Test:** 2022-10-19 to 2022-10-24  
**Date of Issue:** 2022-10-25

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

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



Eric Lin  
Laboratory Manager



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<b>Revision Record</b>			
<b>Version</b>	<b>Description</b>	<b>Date</b>	<b>Remark</b>
00	Original	2022-10-25	/

<b>Authorized for issue by:</b>			
		<i>Eric Liu</i>	
		Eric_Liu/Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin /Reviewer	



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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 E 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 & Subpart E 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	KDB 789033 II D	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 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 E 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 E 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 E 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 & Subpart E 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 & Subpart E 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 E 15.407 (g)	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass

### Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the W891UA-Z was tested since their difference was the model number.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 12V/1A
Adapter:	Model: S018BYU1200150 Input: 100-240V~50/60Hz 600mA Output: 5V/9V/12V, 3A/2A/1.5A
Test Voltage:	AC 120V/60Hz
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz; 802.11n(HT40)/ac(VHT40): 40MHz; 802.11ac(VHT80): 80MHz
Antenna Type:	Ant 1: PCB Antenna Ant 2: PCB Antenna
Antenna Gain:	For U-NII-1 Antenna 1:-2.44dBi(Provided by the manufacturer) Antenna 2:-2.44dBi (Provided by the manufacturer) Directional gain:0.57dBi For U-NII-2A Antenna -2.59dBi(Provided by the manufacturer) Antenna 2:-2.59dBi (Provided by the manufacturer) Directional gain:0.42dBi For U-NII-2C Antenna 1:1.72dBi(Provided by the manufacturer) Antenna 2:1.72dBi (Provided by the manufacturer) Directional gain:4.73dBi For U-NII-3 Antenna 1:1.72dBi Antenna(Provided by the manufacturer) Antenna 2:1.72dBi(Provided by the manufacturer) Directional gain: U-NII-1: 0.57dBi, U-NII-2A: 0.42dBi, U-NII-2C: 4.73dBi, U-NII-3: 4.73dBi
S/N:	ND102408031031
Firmware Version:	V3.120.0000000.1.R

Remark: For frequencies falling between 5150-5250 and 5600-5650MHz will not be used in Canada



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**4.2 Power level setting using in test:**

Channel	802.11a		802.11n(HT20)		802.11ac(VHT20)	
	Ant 1	Ant 2	Ant 2	Ant 2	Ant 1	Ant 2
36	default	default	default	default	default	default
40	default	default	default	default	default	default
48	default	default	default	default	default	default
52	default	default	default	default	default	default
60	default	default	default	default	default	default
64	default	default	default	default	default	default
100	default	default	default	default	default	default
116	default	default	default	default	default	default
140	default	default	default	default	default	default
149	default	default	default	default	default	default
157	default	default	default	default	default	default
165	default	default	default	default	default	default
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	default	default	default	default		
46	default	default	default	default		
54	default	default	default	default		
62	default	default	default	default		
102	default	default	default	default		
110	default	default	default	default		
134	default	default	default	default		
151	default	default	default	default		
159	default	default	default	default		
Channel	802.11ac(VHT80)					
	Ant 1	Ant 2				
42	default	default				
58	default	default				
106	default	default				
122	default	default				
155	default	default				



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**4.3 Description of Support Units**

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645

**4.4 Measurement Uncertainty**

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
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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#### 4.5 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).

#### 4.6 Test Facility

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

- **CNAS**

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

- **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.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
<b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b>						
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/14/2021	11/13/2022
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
<b>RF Conducted Test</b>						
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	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
15	Software	BST	TST-PASS	/	N/A	N/A
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EM-C-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 1 and antenna 2 is Integral Antenna, and all no consideration of replacement. The best case gain of the antenna 1 is -2.44dBi for U-NII-1,-2.59dBi for U-NII-2A, 1.72dBi for U-NII-2C, 1.72dBi for U-NII-3 and antenna 2 is -2.44dBi for U-NII-1,-2.59dBi for U-NII-2A, 1.72dBi for U-NII-2C, 1.72dBi for U-NII-3.

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 $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 42.0 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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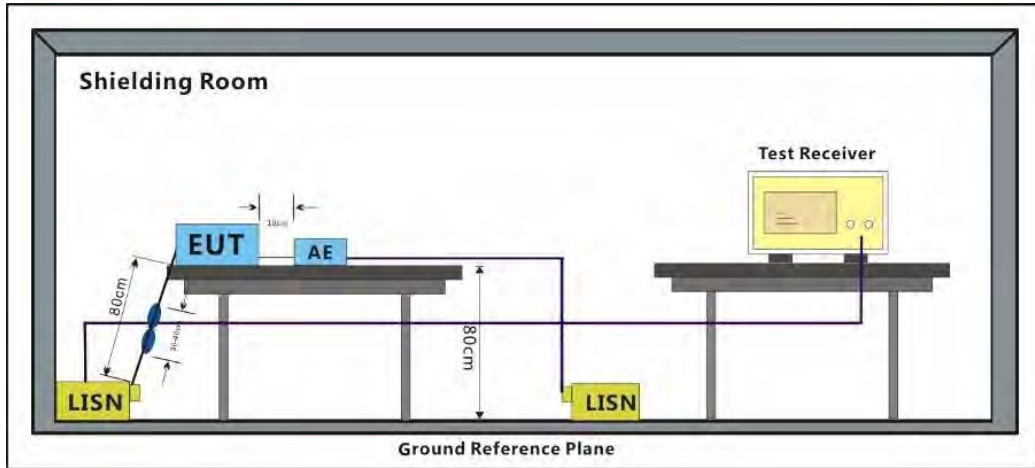
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Pre-scan	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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.

**7.1.3 Test Setup Diagram**



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### 7.1.4 Measurement Procedure and Data

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

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

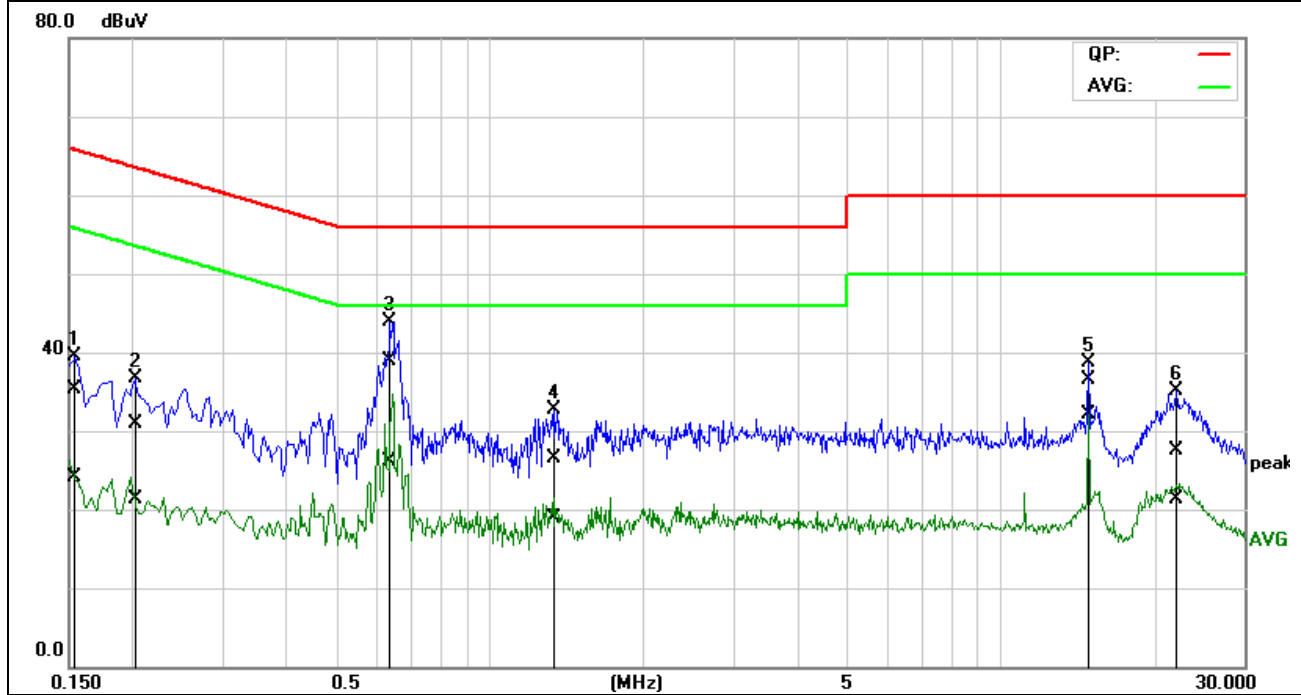


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Test Mode: 02; Line: Live line



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	0.1552	15.76	4.66	19.50	35.26	24.16	65.72	55.72	-30.46	-31.56	Pass
2	0.1999	11.33	1.74	19.50	30.83	21.24	63.61	53.61	-32.78	-32.37	Pass
3*	0.6321	19.31	6.59	19.57	38.88	26.16	56.00	46.00	-17.12	-19.84	Pass
4	1.3171	6.82	-0.64	19.61	26.43	18.97	56.00	46.00	-29.57	-27.03	Pass
5	14.8577	16.24	11.86	20.20	36.44	32.06	60.00	50.00	-23.56	-17.94	Pass
6	22.1059	7.22	0.93	20.34	27.56	21.27	60.00	50.00	-32.44	-28.73	Pass



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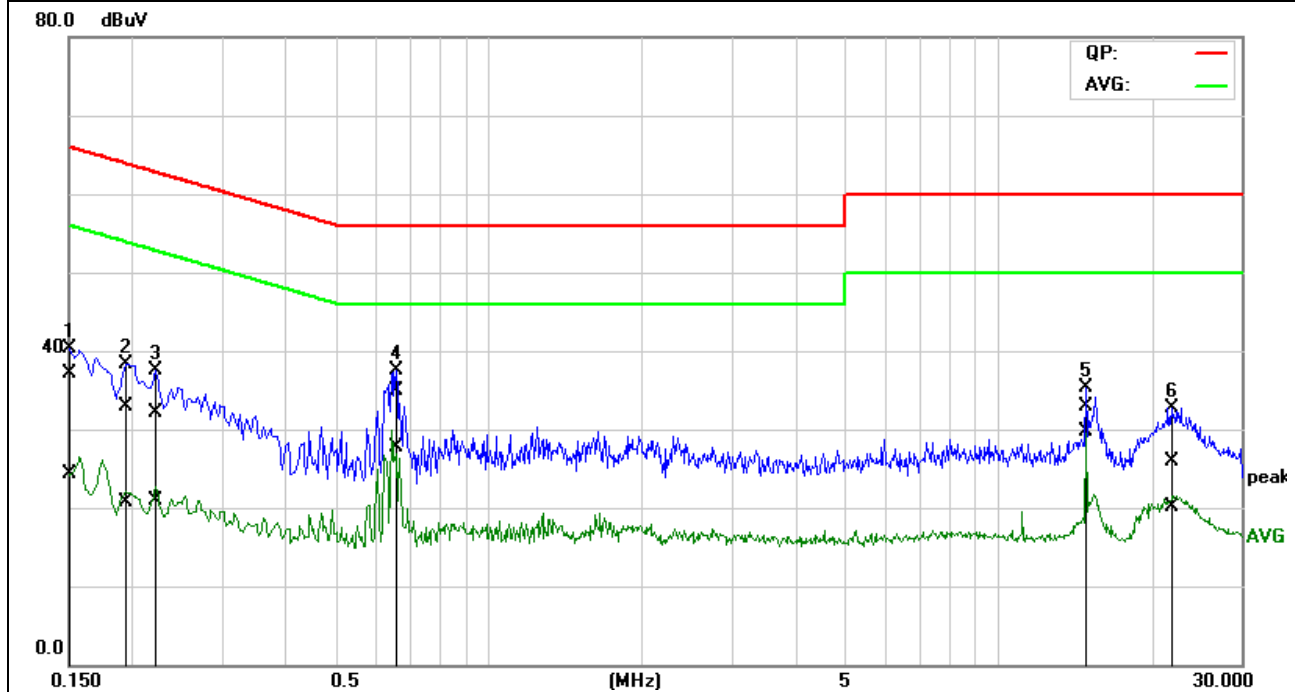
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Test Mode: 02; Line: Neutral Line



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	0.1512	17.69	4.79	19.48	37.17	24.27	65.93	55.93	-28.76	-31.66	Pass
2	0.1920	13.45	1.18	19.49	32.94	20.67	63.95	53.95	-31.01	-33.28	Pass
3	0.2202	12.62	1.37	19.49	32.11	20.86	62.81	52.81	-30.70	-31.95	Pass
4*	0.6507	15.36	8.23	19.56	34.92	27.79	56.00	46.00	-21.08	-18.21	Pass
5	14.8573	12.79	9.48	20.20	32.99	29.68	60.00	50.00	-27.01	-20.32	Pass
6	21.9430	5.63	-0.22	20.33	25.96	20.11	60.00	50.00	-34.04	-29.89	Pass



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# Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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## 7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 42.0 % RH Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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.

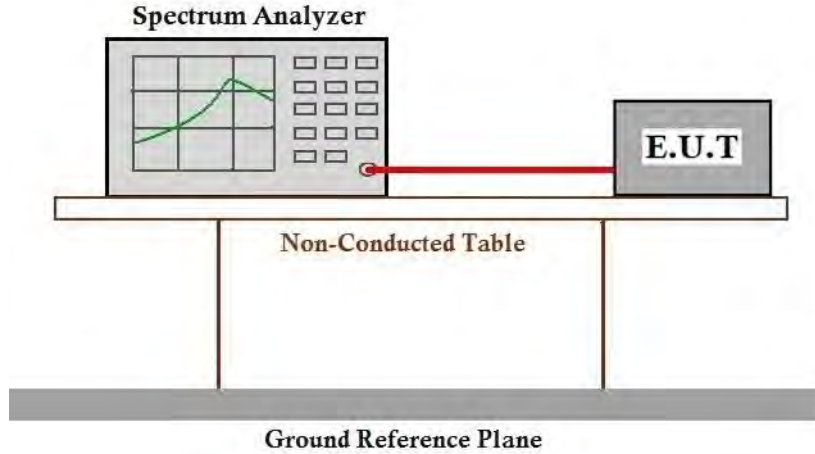


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### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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**7.3 99% Bandwidth**

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

**7.3.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 24.1 °C Humidity: 42.0 % RH Atmospheric Pressure: 1010 mbar

**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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.

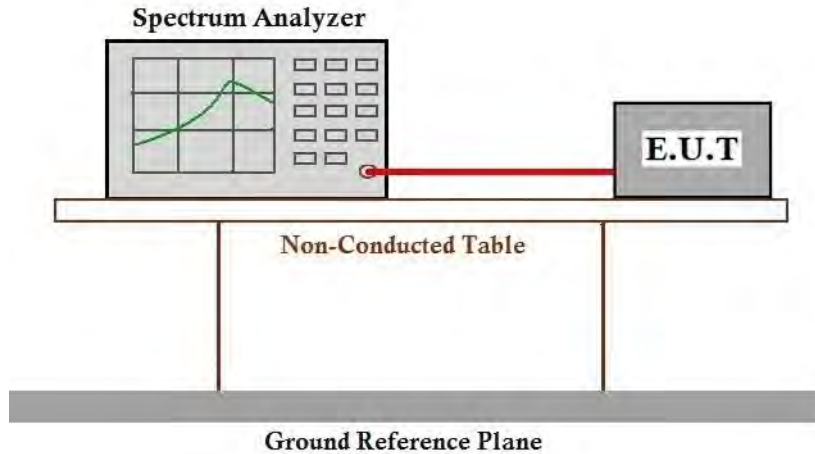


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### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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**7.4 26dB Emission bandwidth**

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

Test Method: KDB 789033 D02 II C 1

**7.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.0 °C Humidity: 42.1 % RH Atmospheric Pressure: 1010 mbar

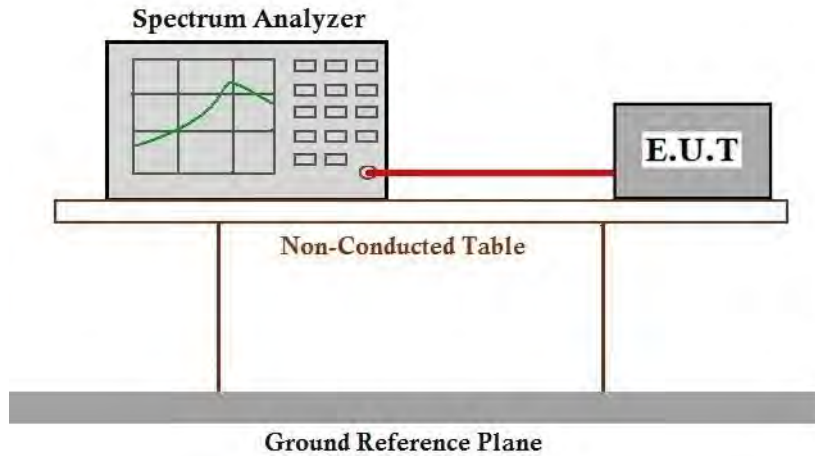
**7.4.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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### 7.4.3 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**

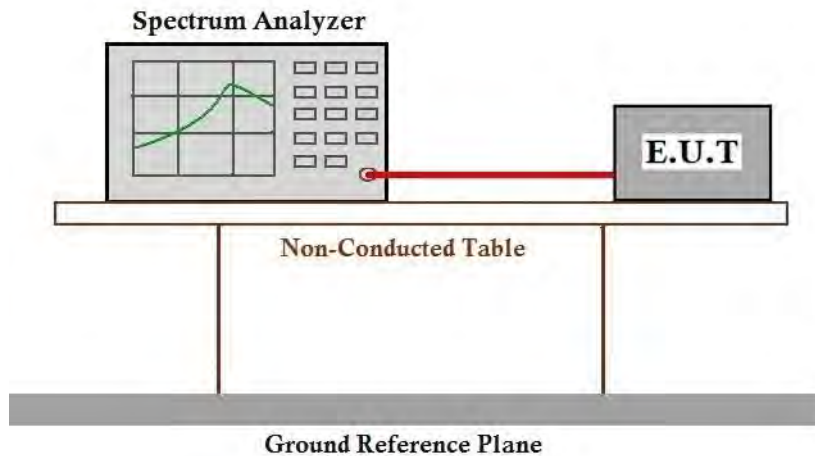
Operating Environment:

Temperature: 24.1 °C Humidity: 42.1 % RH Atmospheric Pressure: 1010 mbar

**7.5.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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: 24.0 °C Humidity: 42.1 % RH Atmospheric Pressure: 1010 mbar

**7.6.2 Test Mode Description**

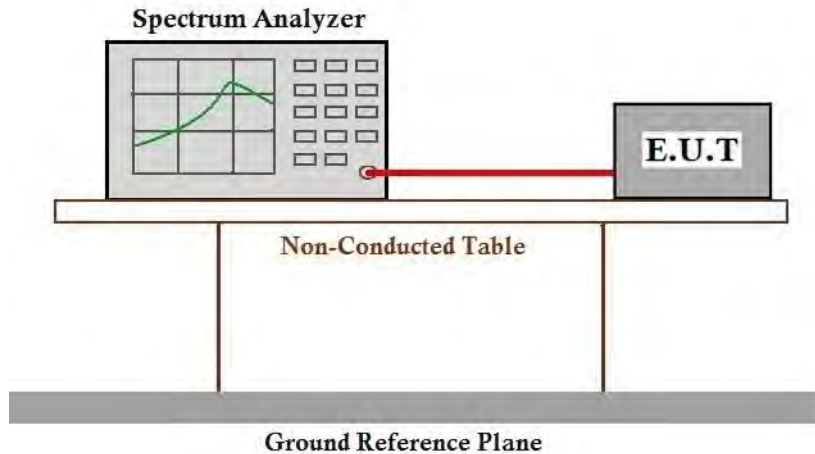
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are



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		considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80) final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

**7.6.3 Test Setup Diagram**



**7.6.4 Measurement Procedure and Data**

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

Please Refer to Appendix for Details



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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: 24.1 °C Humidity: 42.1 % RH Atmospheric Pressure: 1010 mbar

**7.7.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and

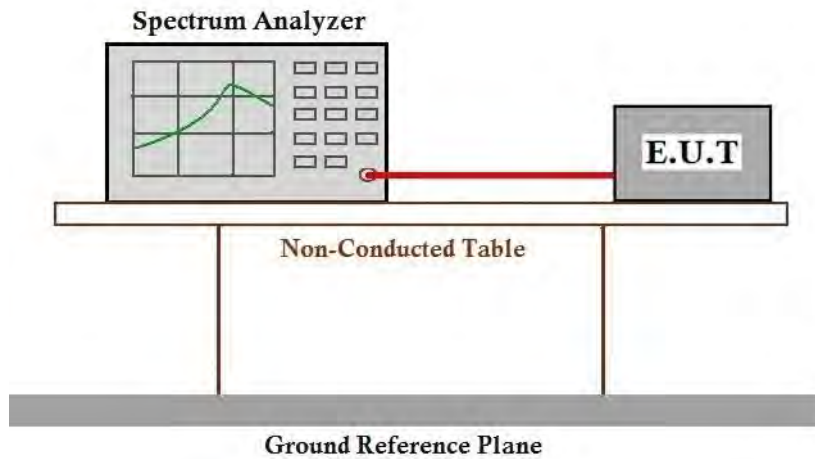


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		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ 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	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80) final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

**7.7.3 Test Setup Diagram**



**7.7.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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**7.8 Radiated Emissions (Above 1GHz)**

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

Test Method: KDB 789033 D02 II G

Limit:

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

**7.8.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.5 °C

Humidity: 58.5 % RH

Atmospheric Pressure: 1010 mbar

**7.8.2 Test Mode Description**

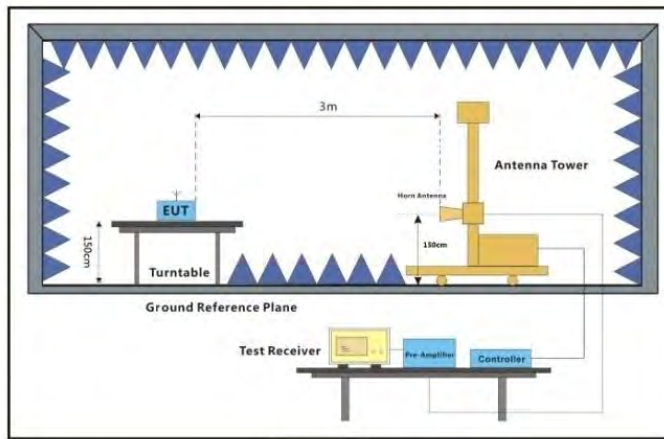
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst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



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Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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**



Above 1GHz



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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.
- 6. For WLAN radiated test, according to the conducted power and verify test the SISO & MIMO mode, the worst-case is SISO mode for 802.11a, MIMO mode for 802.11n/ac, therefore, all final test are performed in SISO & MIMO mode and reported.



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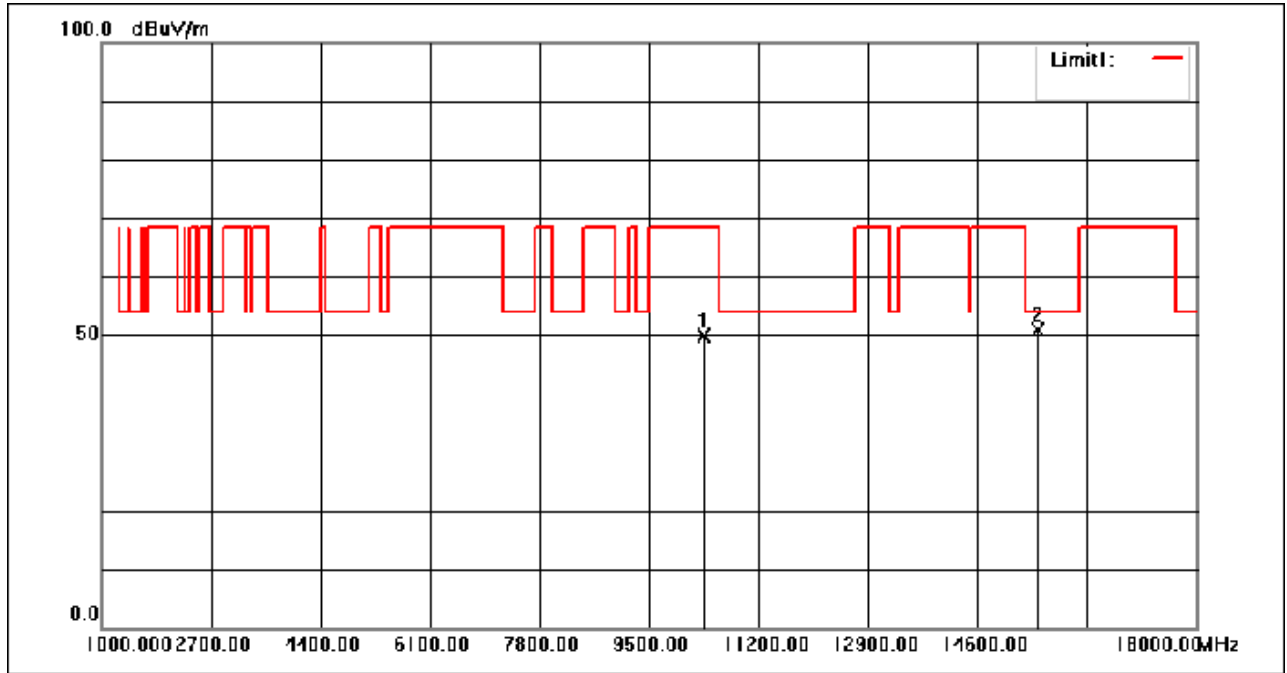


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Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.68	0.16	49.84	68.30	-18.46	peak
2	15540.000	45.13	5.73	50.86	54.00	-3.14	peak



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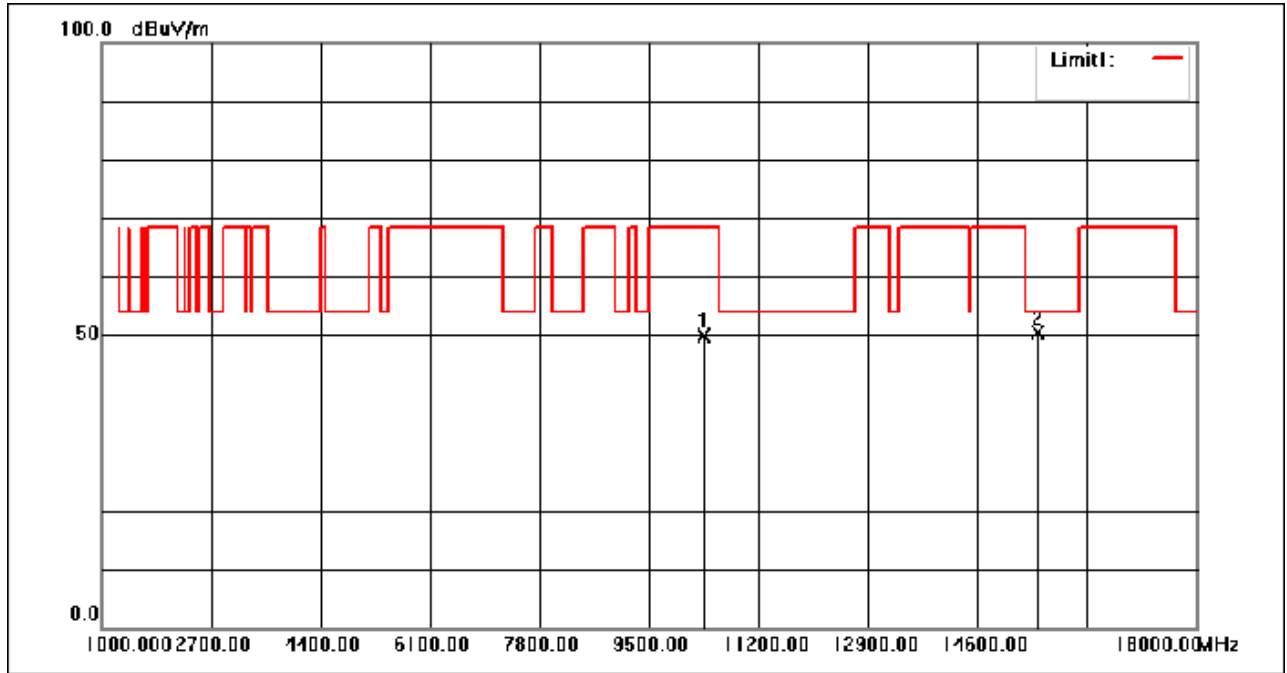
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Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.82	0.16	49.98	68.30	-18.32	peak
2	15540.000	44.73	5.73	50.46	54.00	-3.54	peak



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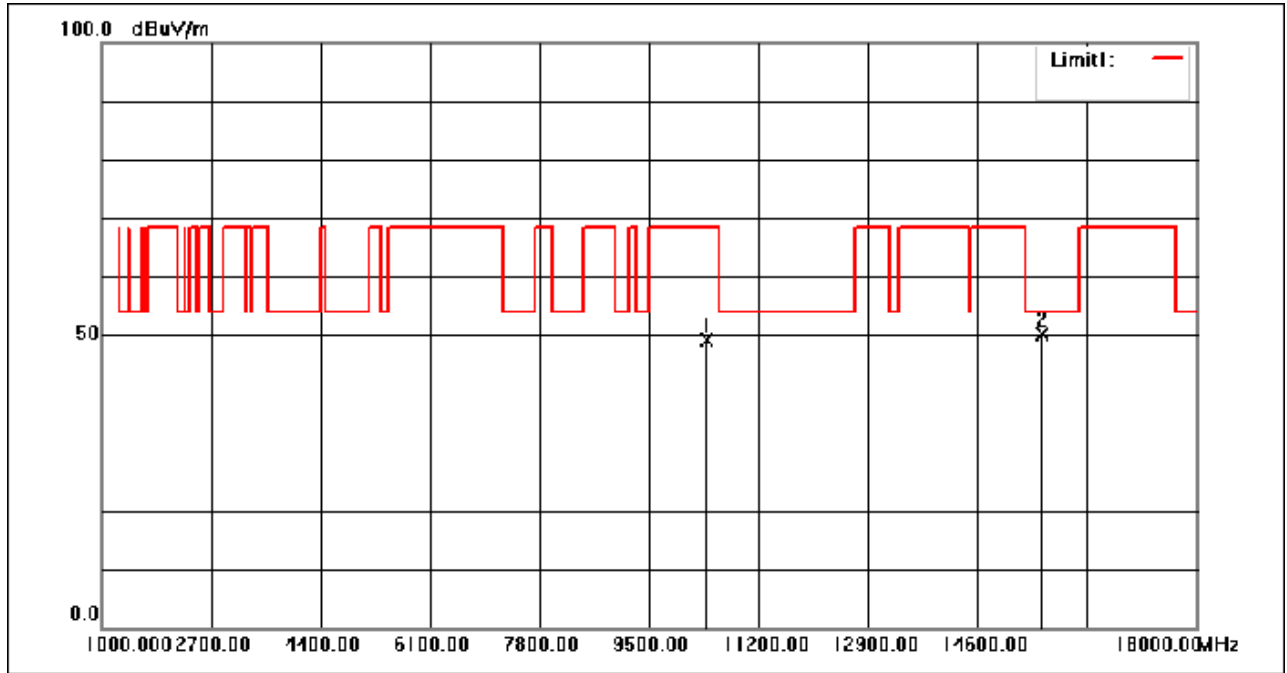
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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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	48.97	0.24	49.21	68.30	-19.09	peak
2	15600.000	44.33	5.85	50.18	54.00	-3.82	peak



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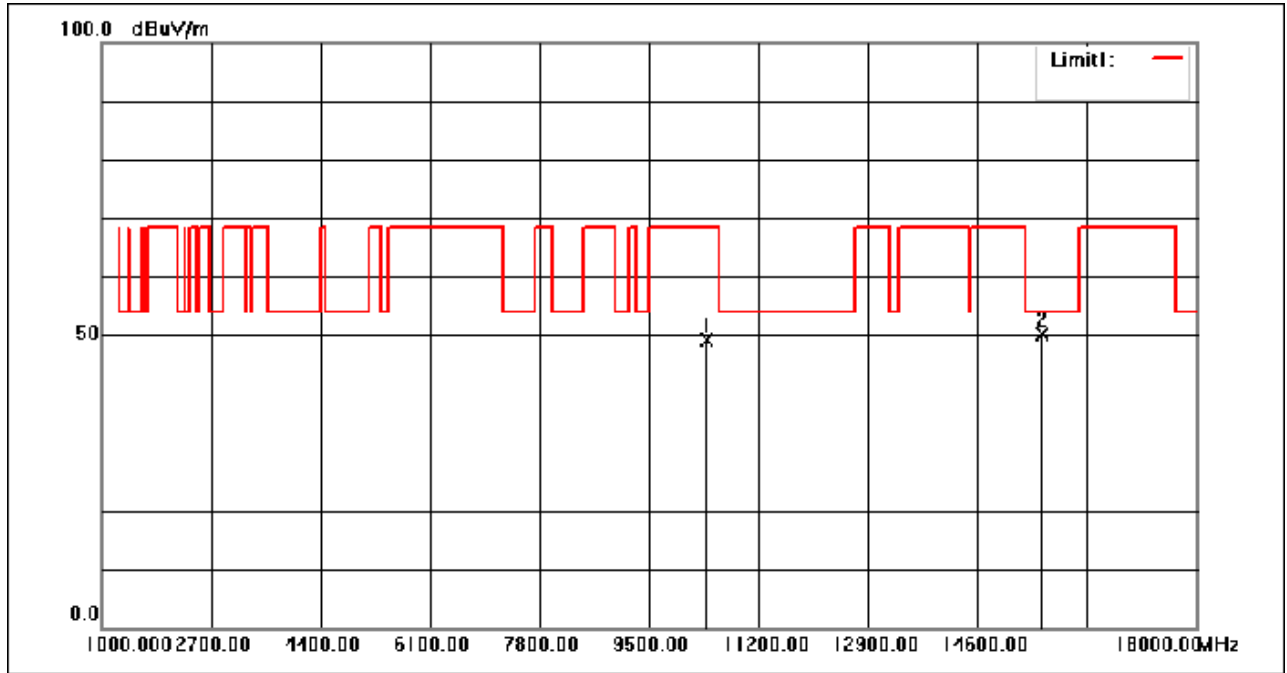
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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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	48.78	0.24	49.02	68.30	-19.28	peak
2	15600.000	44.33	5.85	50.18	54.00	-3.82	peak



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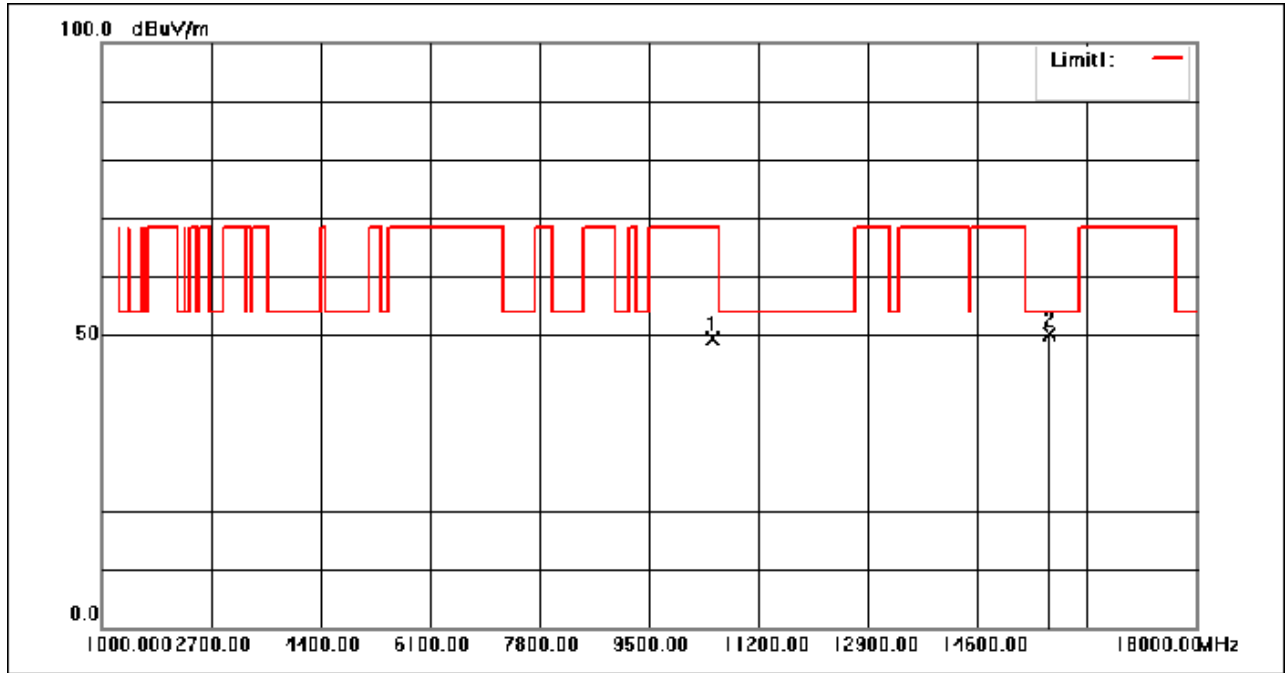


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.88	0.40	49.28	68.30	-19.02	peak
2	15720.000	43.91	6.10	50.01	54.00	-3.99	peak



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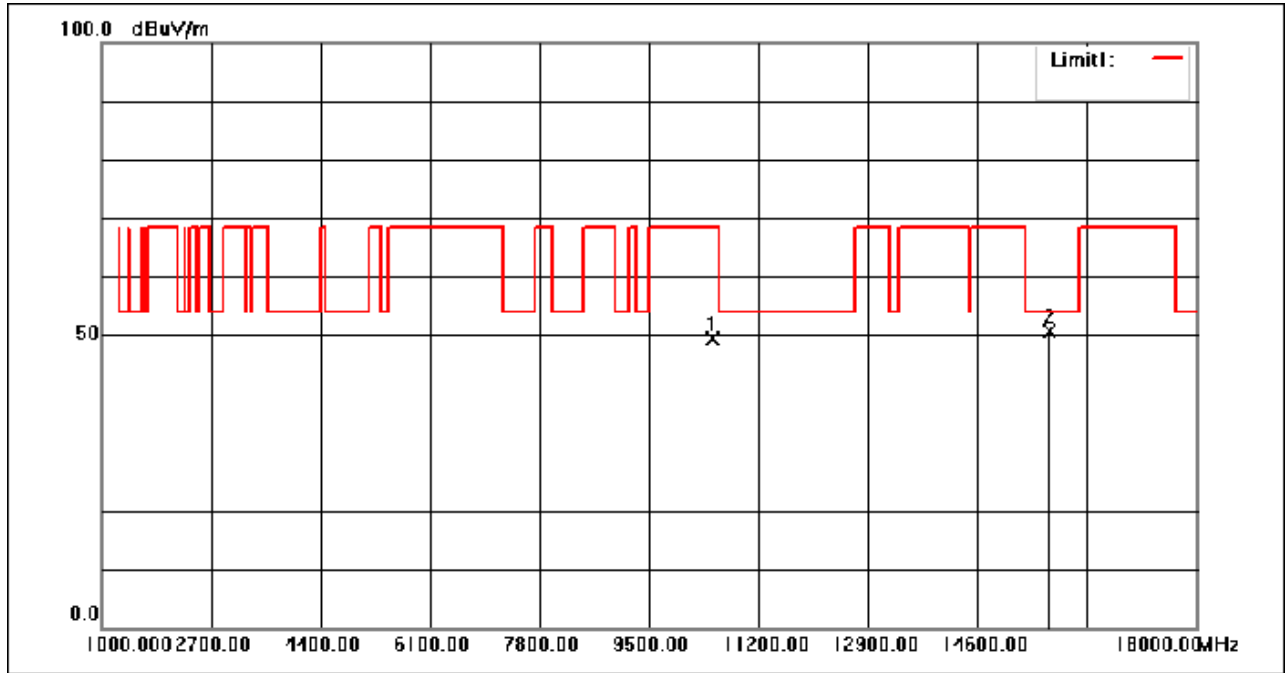
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## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.96	0.40	49.36	68.30	-18.94	peak
2	15720.000	44.54	6.10	50.64	54.00	-3.36	peak



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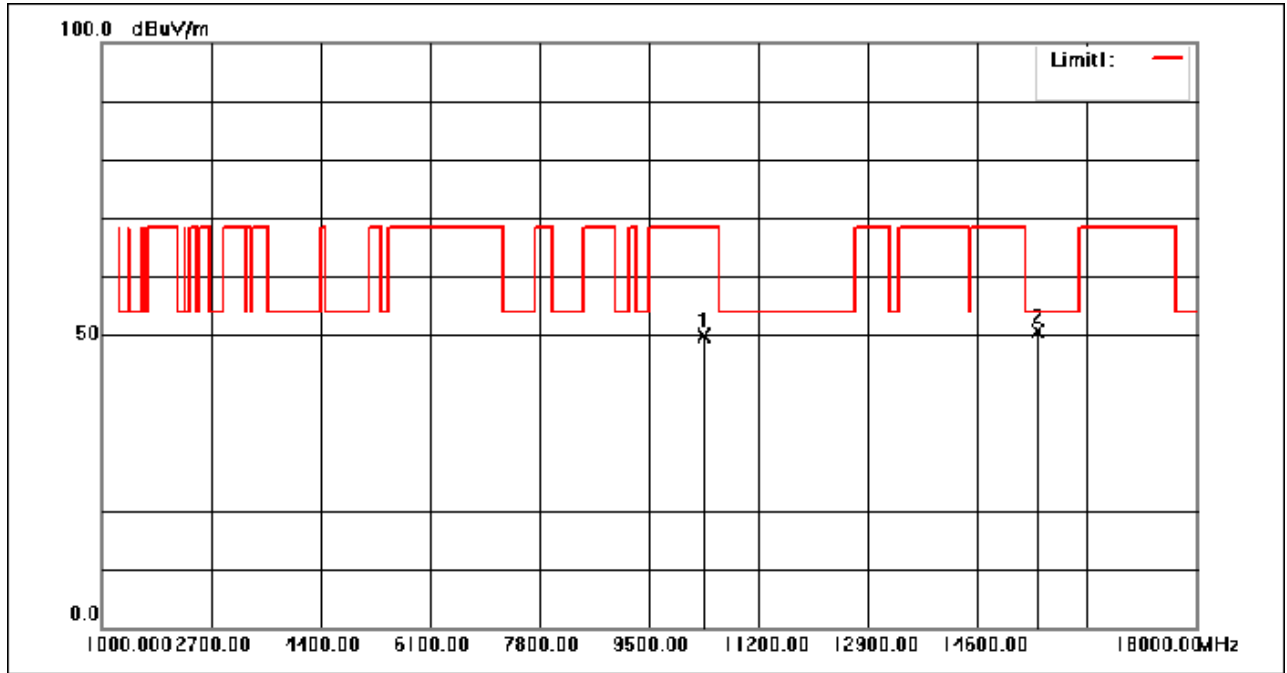
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.68	0.16	49.84	68.30	-18.46	peak
2	15540.000	44.92	5.73	50.65	54.00	-3.35	peak



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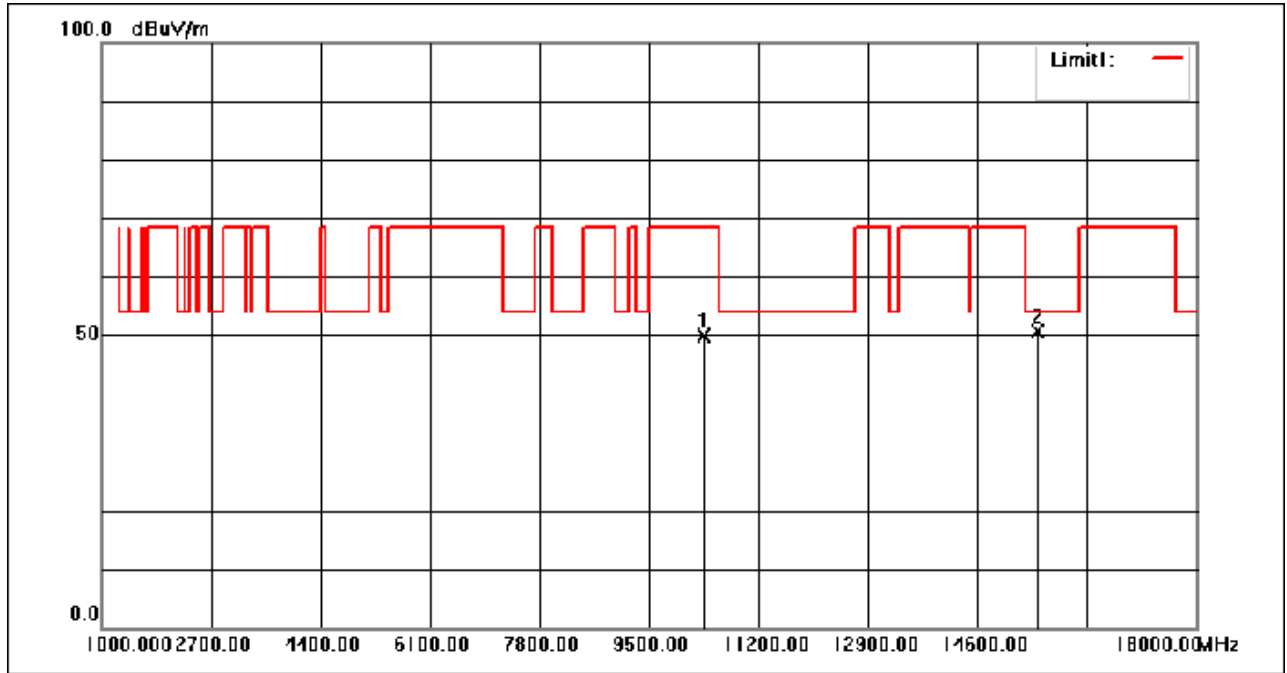
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.74	0.16	49.90	68.30	-18.40	peak
2	15540.000	44.85	5.73	50.58	54.00	-3.42	peak



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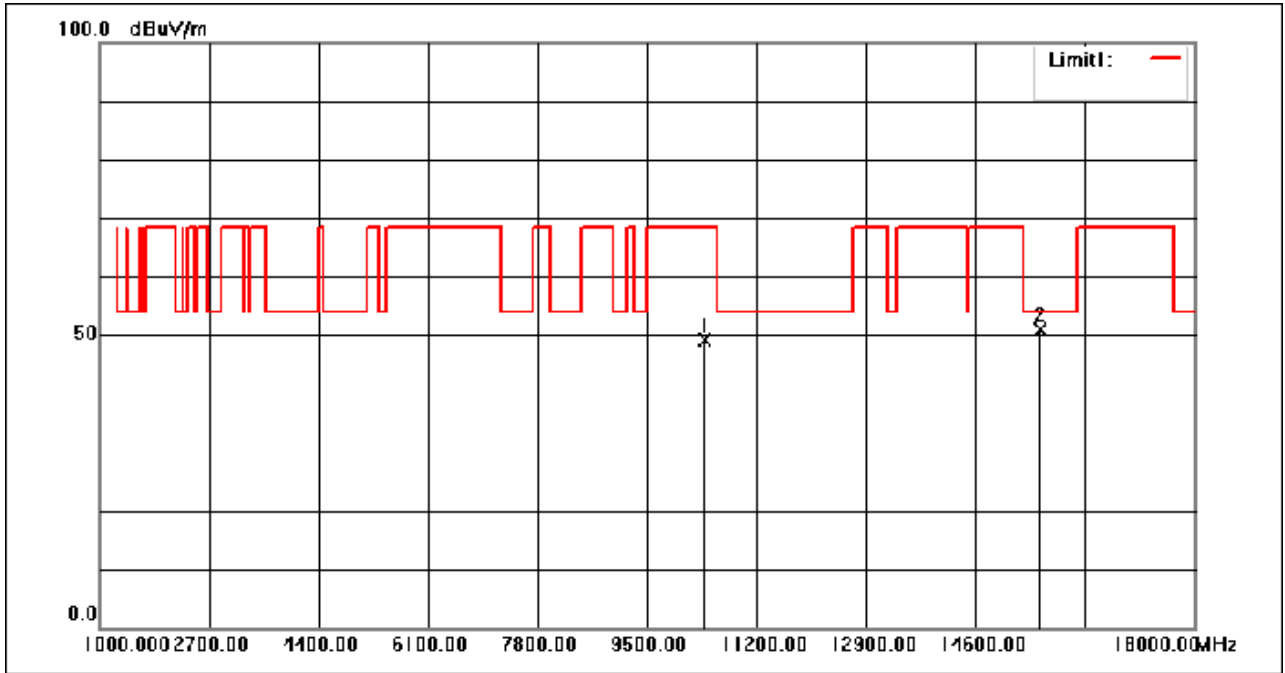


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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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	48.98	0.24	49.22	68.30	-19.08	peak
2	15600.000	45.03	5.85	50.88	54.00	-3.12	peak

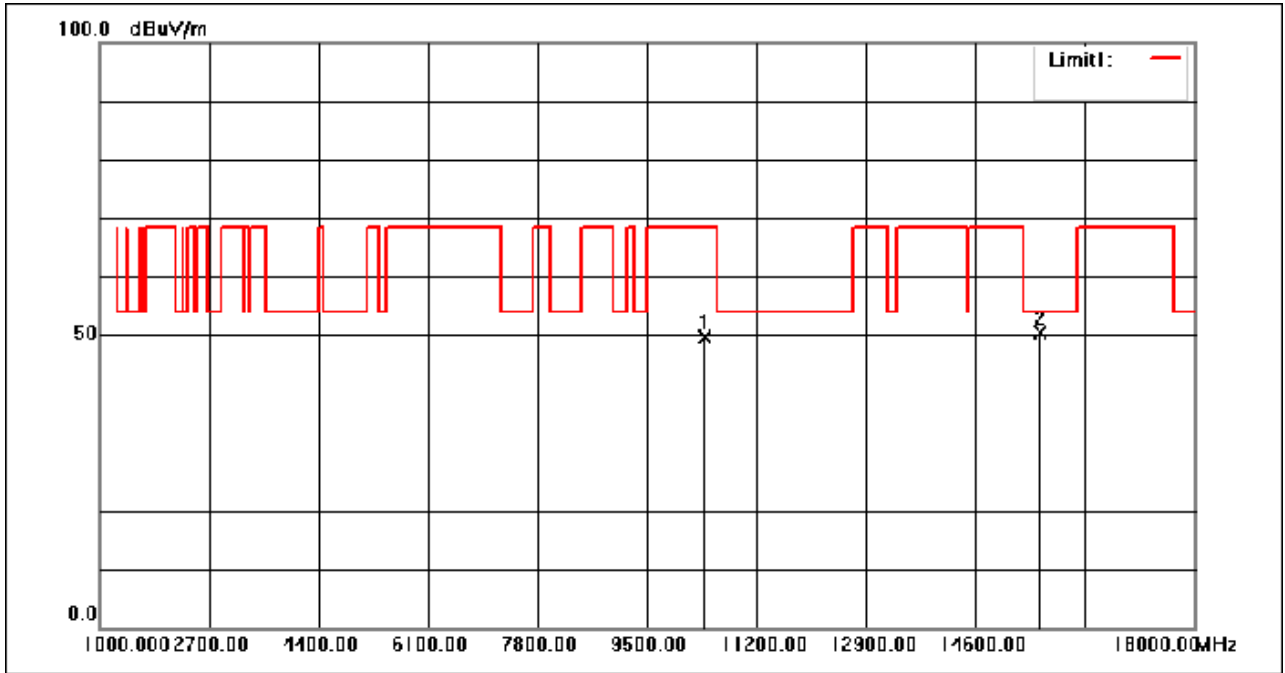


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.35	0.24	49.59	68.30	-18.71	peak
2	15600.000	44.53	5.85	50.38	54.00	-3.62	peak



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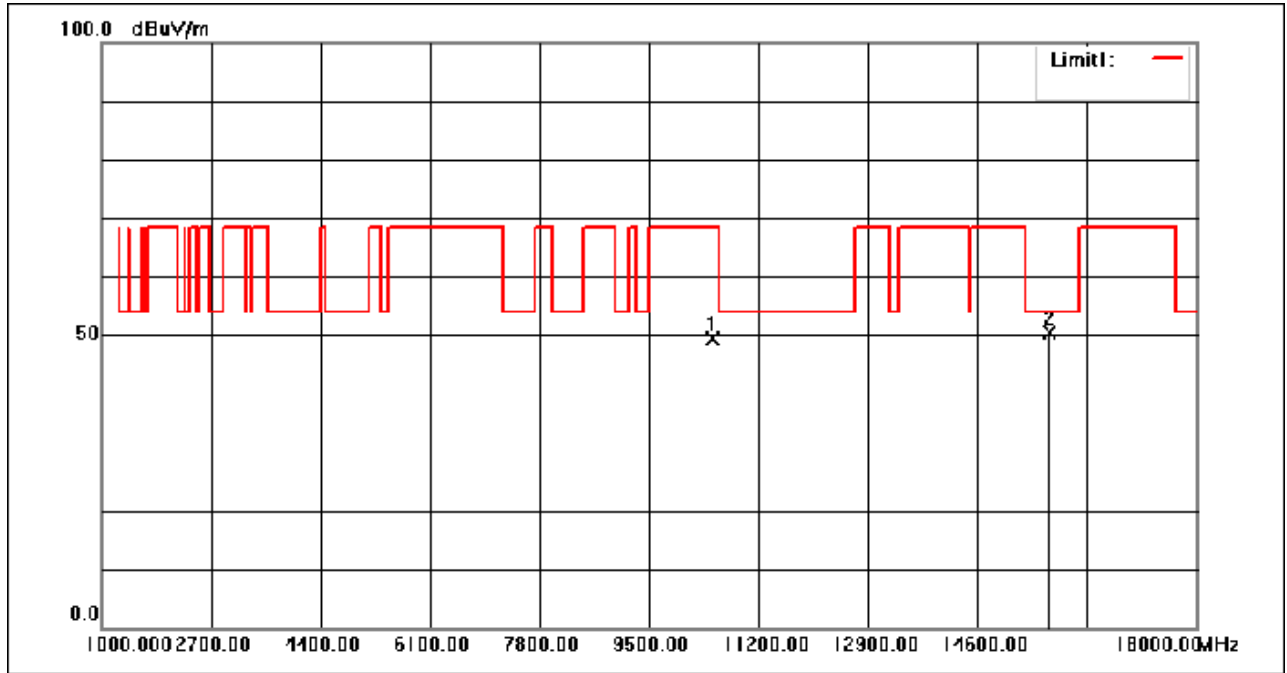
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.87	0.40	49.27	68.30	-19.03	peak
2	15720.000	44.27	6.10	50.37	54.00	-3.63	peak



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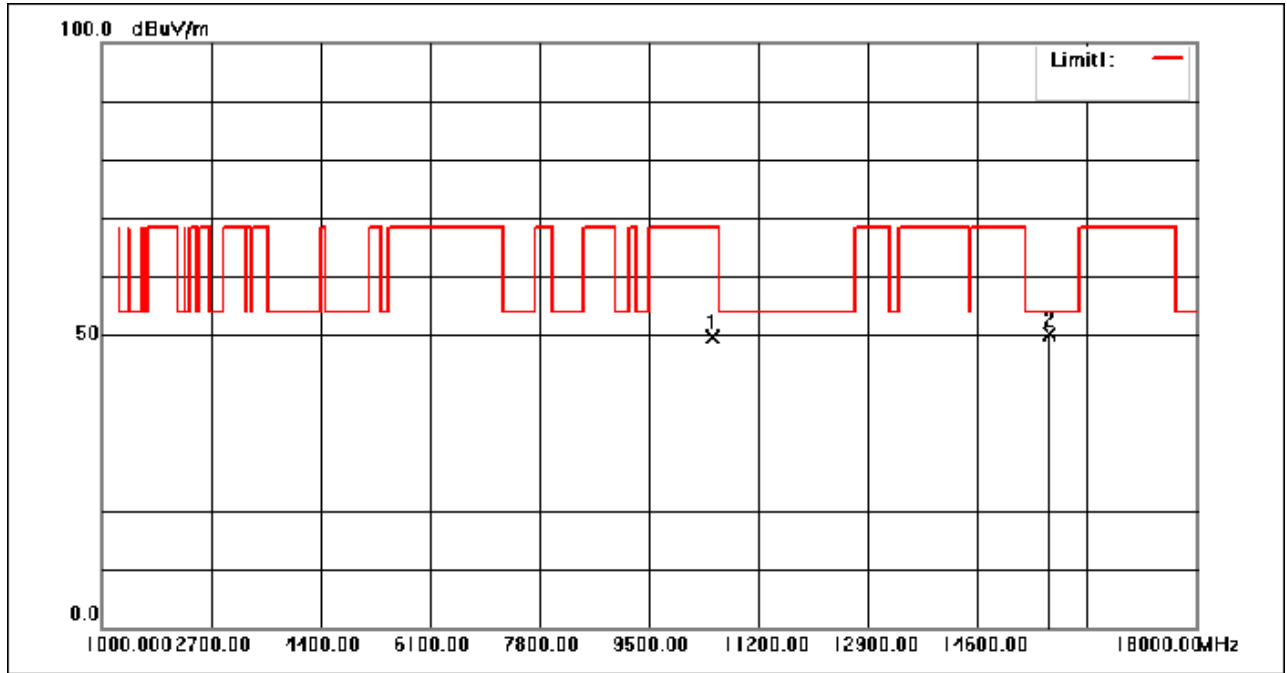
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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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	49.23	0.40	49.63	68.30	-18.67	peak
2	15720.000	44.07	6.10	50.17	54.00	-3.83	peak



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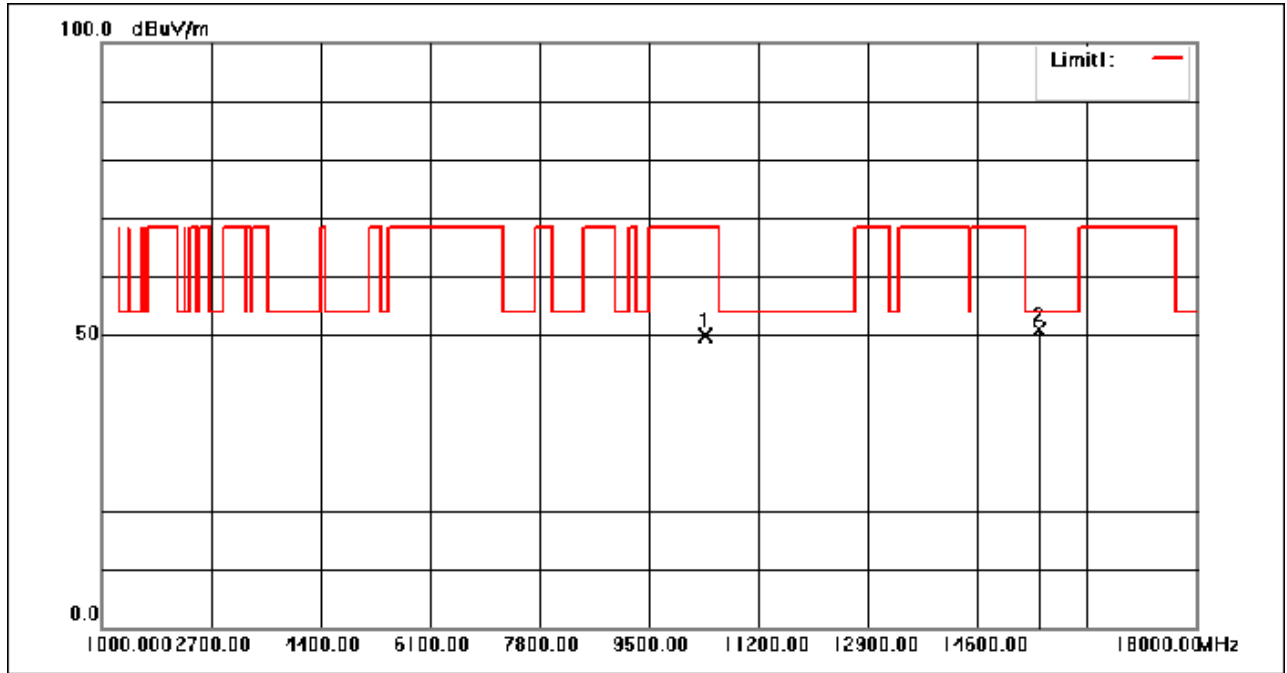


## Compliance Certification Services (Kunshan) Inc.

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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	49.61	0.20	49.81	68.30	-18.49	peak
2	15570.000	45.00	5.79	50.79	54.00	-3.21	peak



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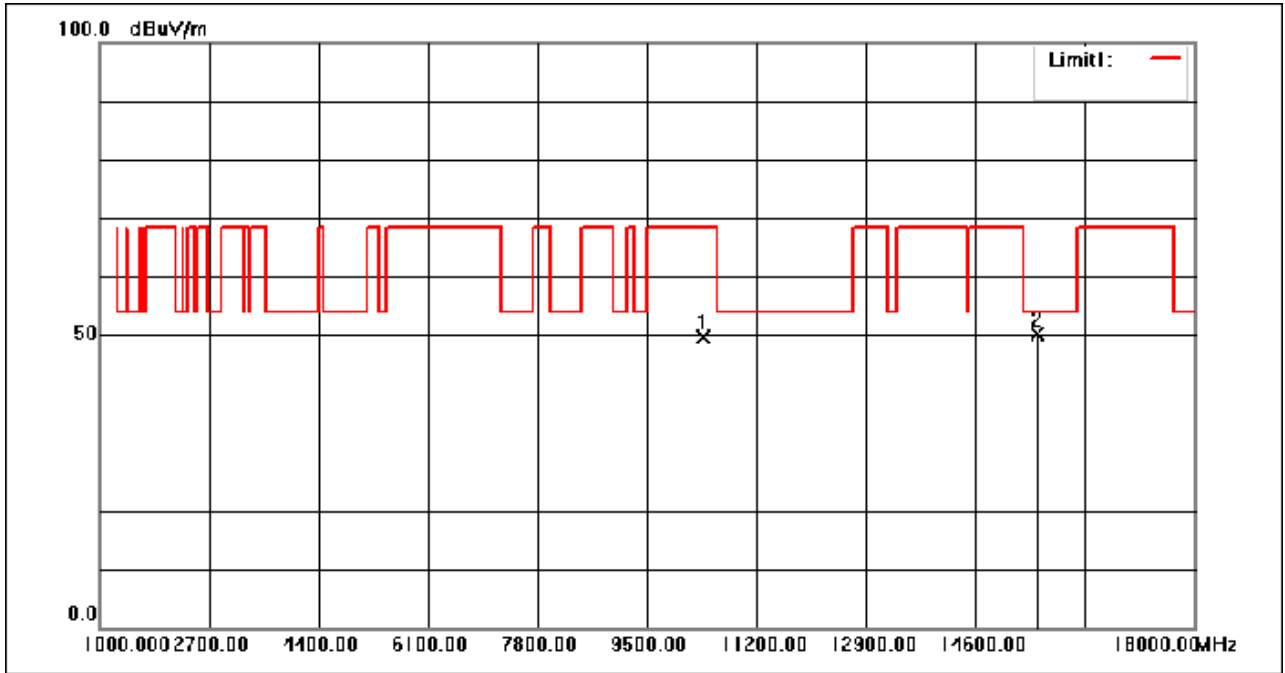
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 46 of 575

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	44.43	5.79	50.22	54.00	-3.78	peak



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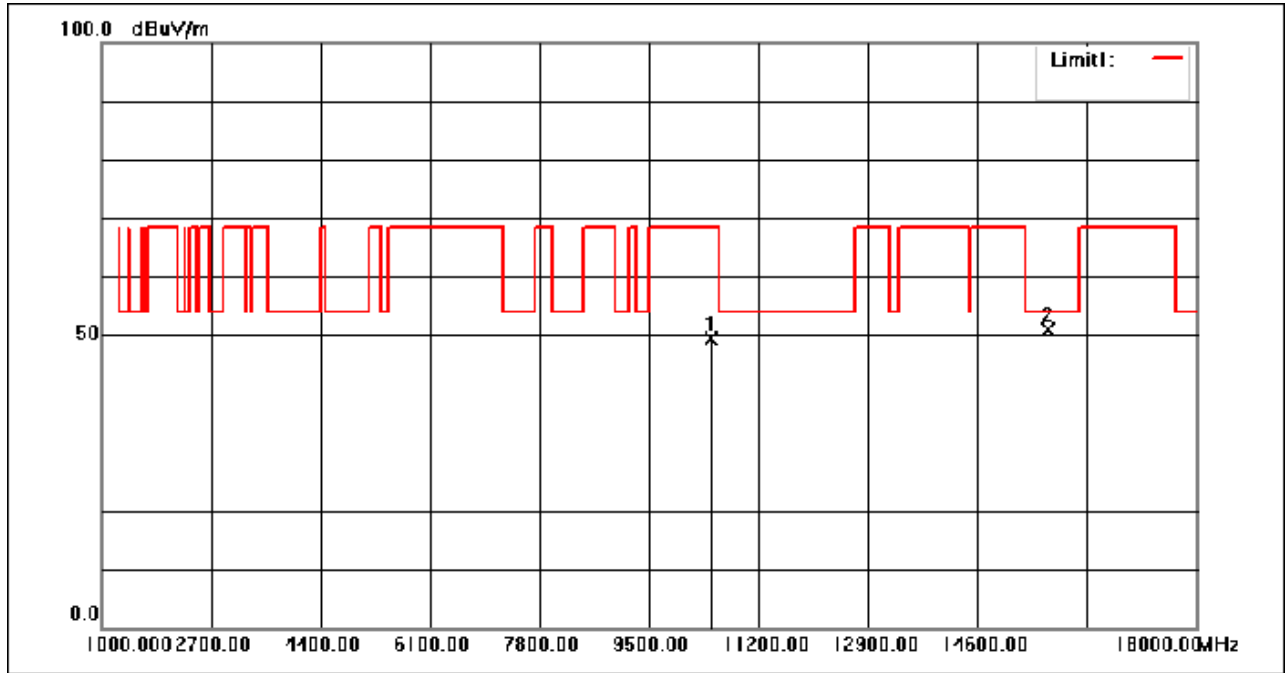
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 47 of 575

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	49.00	0.36	49.36	68.30	-18.94	peak
2	15690.000	44.91	6.04	50.95	54.00	-3.05	peak



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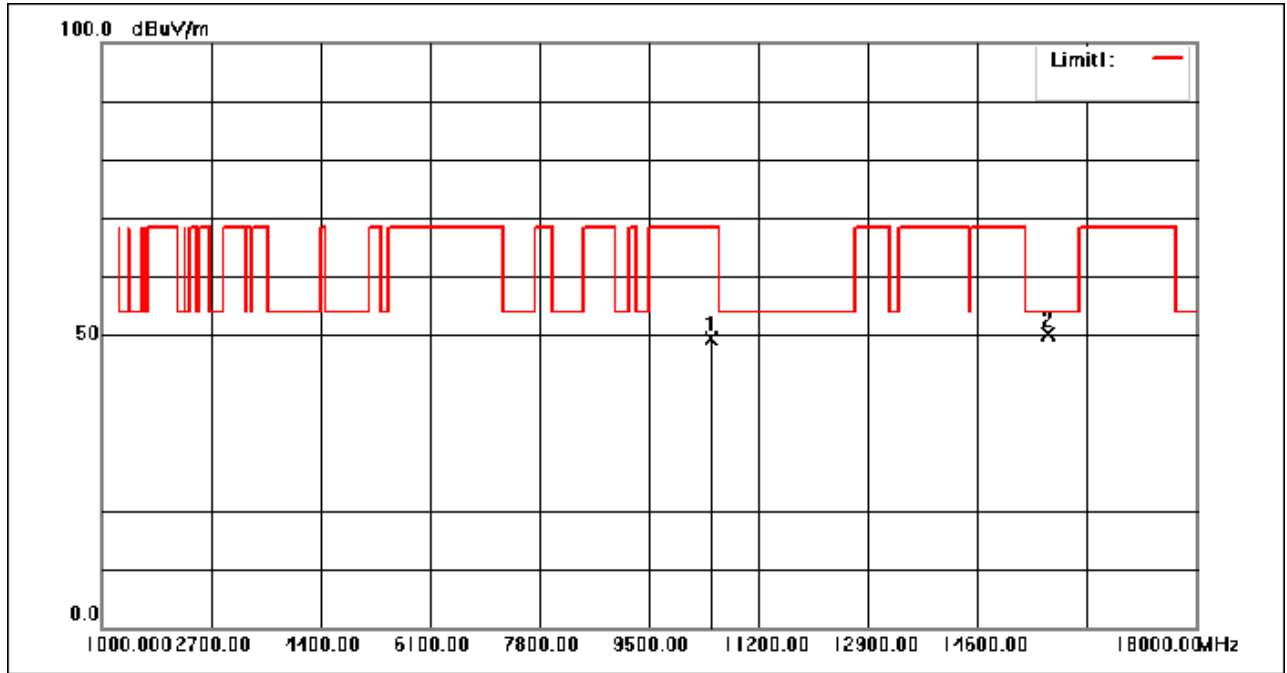
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 48 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.00	0.36	49.36	68.30	-18.94	peak
2	15690.000	44.15	6.04	50.19	54.00	-3.81	peak



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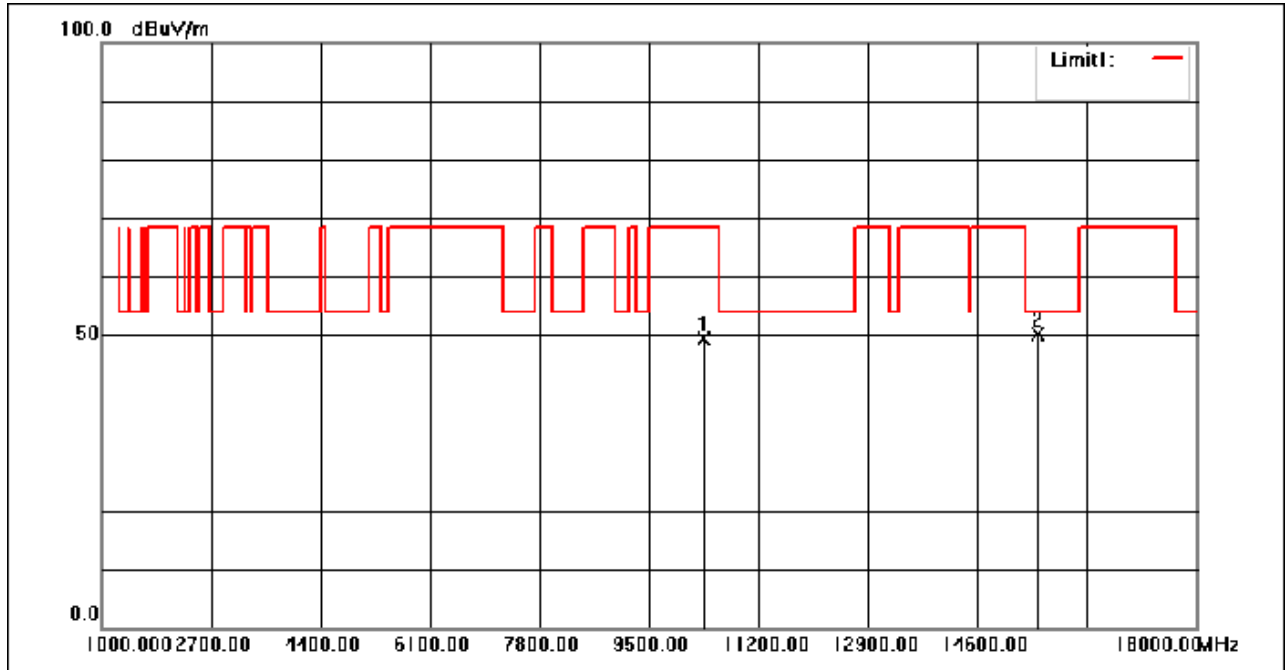


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 49 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.33	0.16	49.49	68.30	-18.81	peak
2	15540.000	44.40	5.73	50.13	54.00	-3.87	peak



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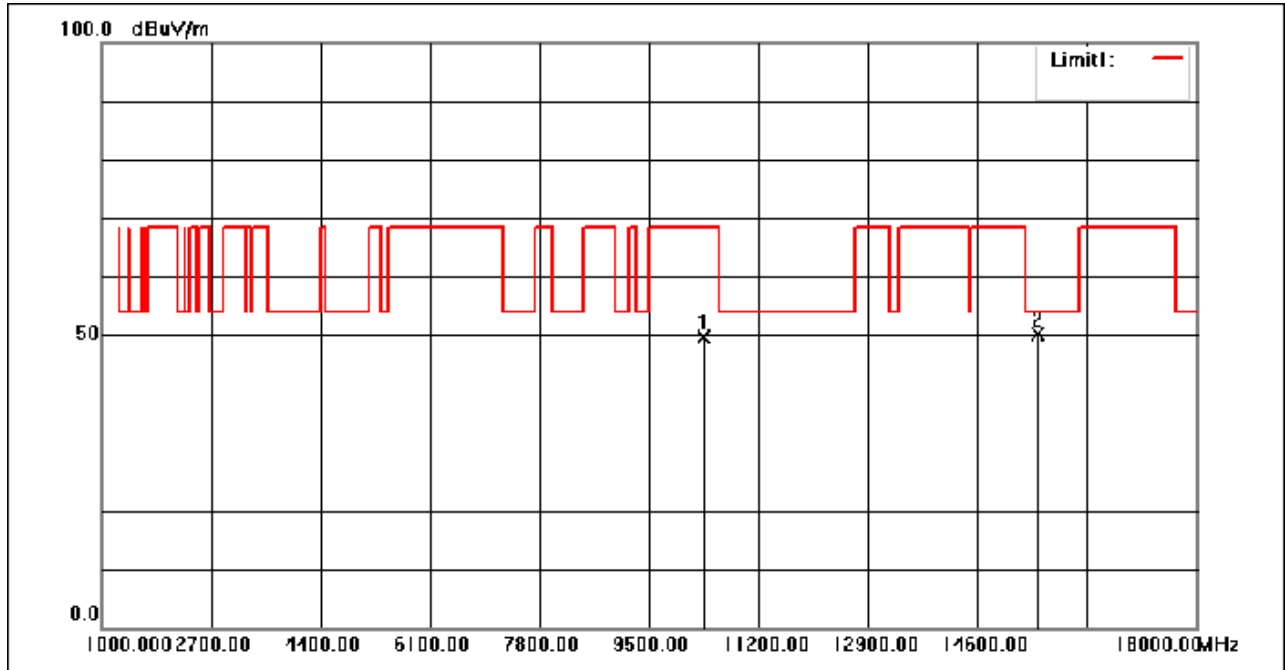
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 50 of 575

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	49.38	0.16	49.54	68.30	-18.76	peak
2	15540.000	44.31	5.73	50.04	54.00	-3.96	peak



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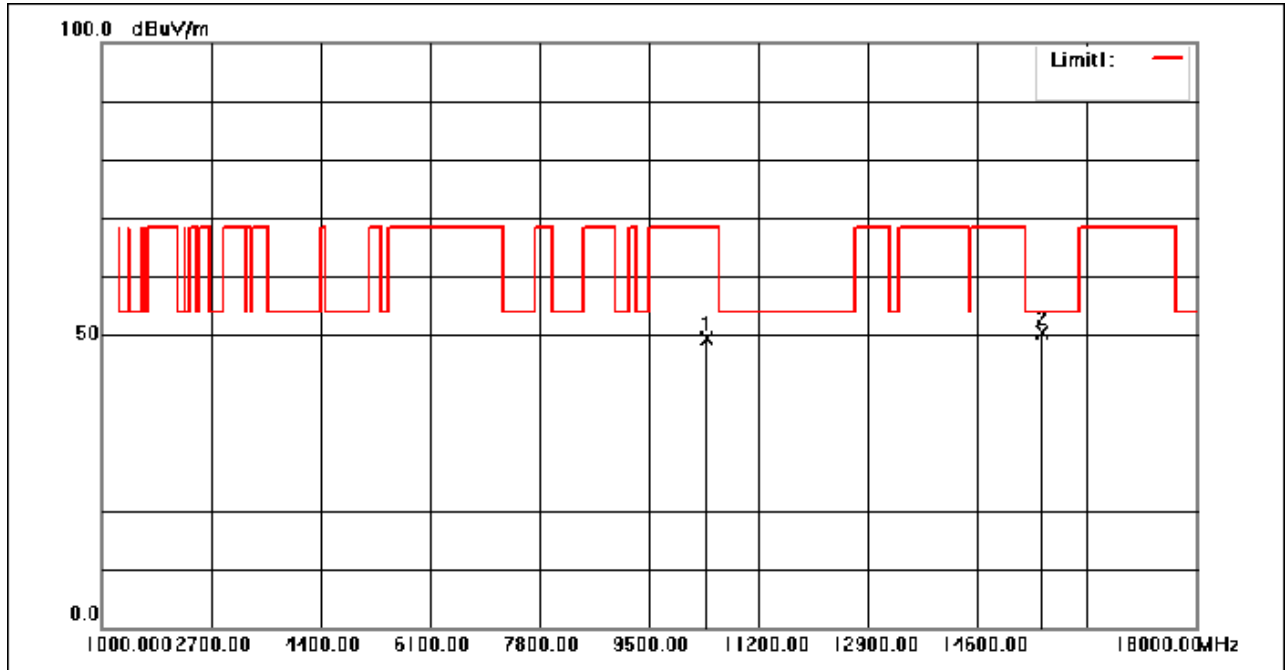
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 51 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.21	0.24	49.45	68.30	-18.85	peak
2	15600.000	44.56	5.85	50.41	54.00	-3.59	peak



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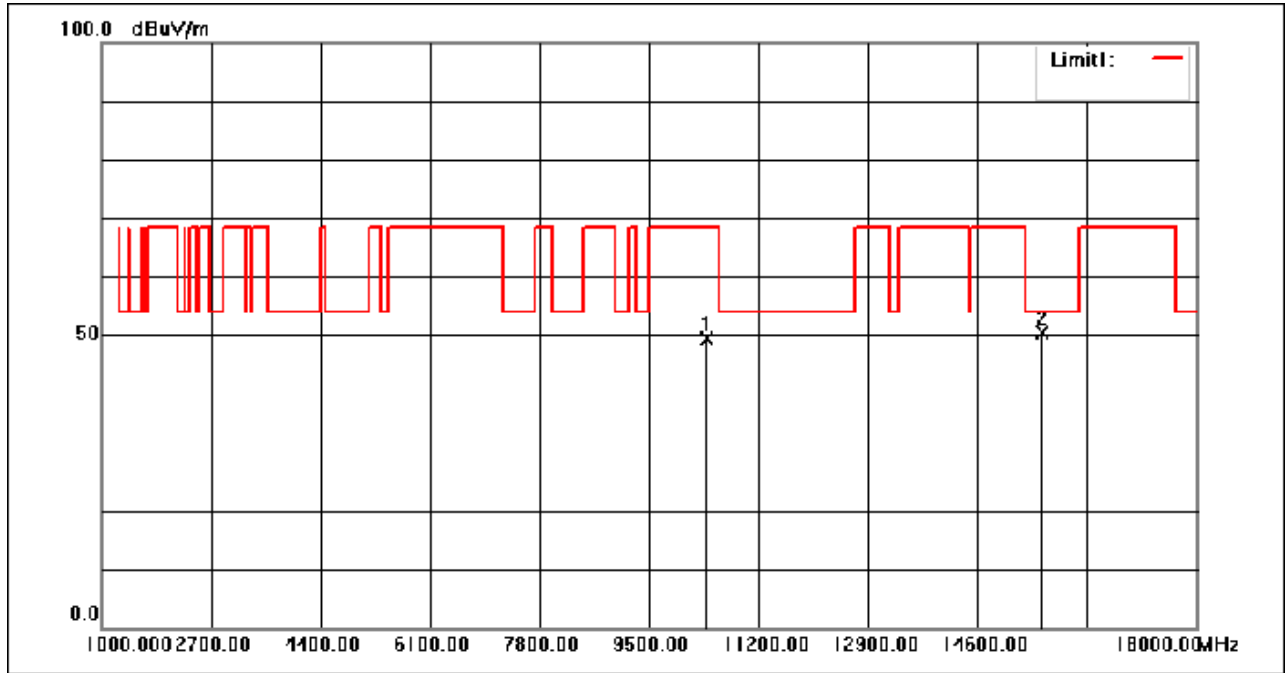
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 01; 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	10400.000	49.15	0.24	49.39	68.30	-18.91	peak
2	15600.000	44.56	5.85	50.41	54.00	-3.59	peak



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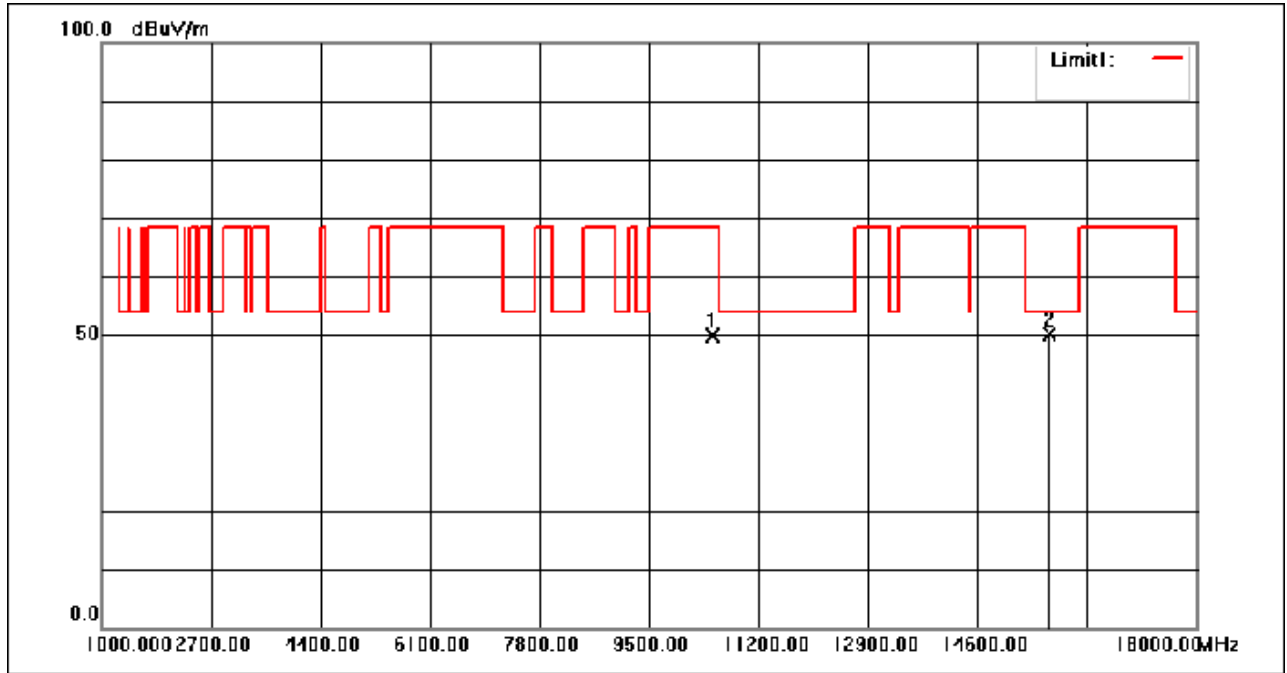


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.47	0.40	49.87	68.30	-18.43	peak
2	15720.000	44.11	6.10	50.21	54.00	-3.79	peak

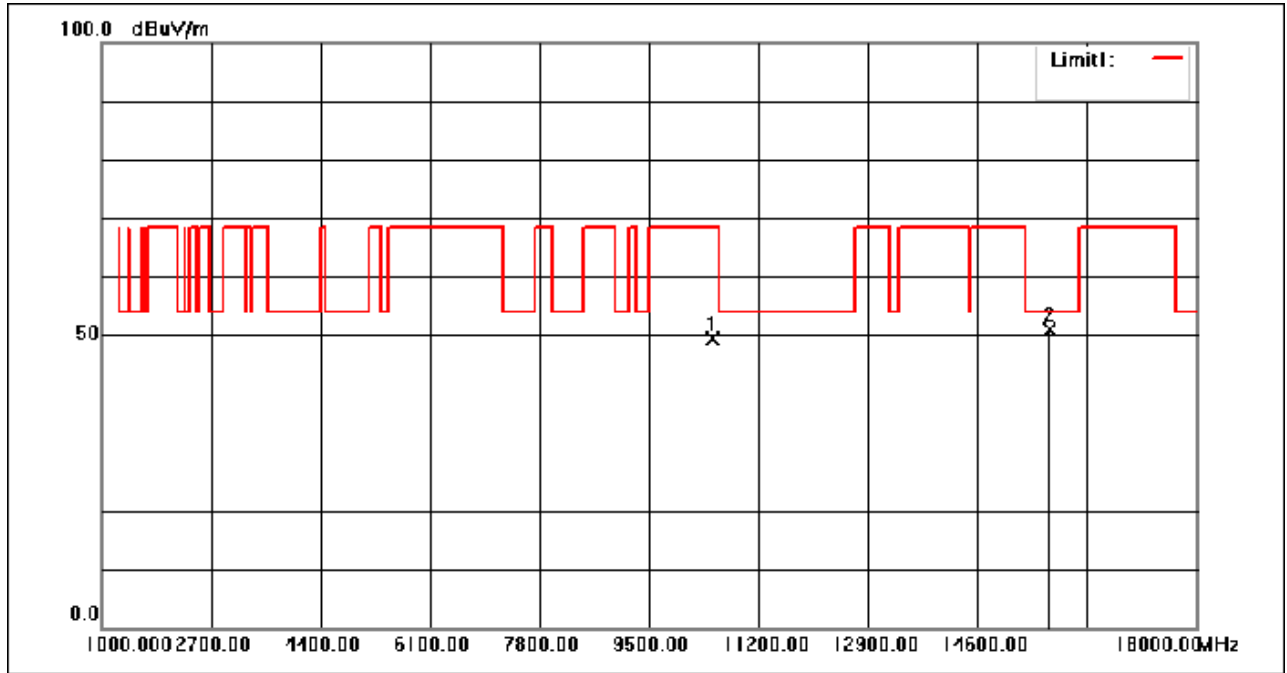


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.06	0.40	49.46	68.30	-18.84	peak
2	15720.000	44.79	6.10	50.89	54.00	-3.11	peak



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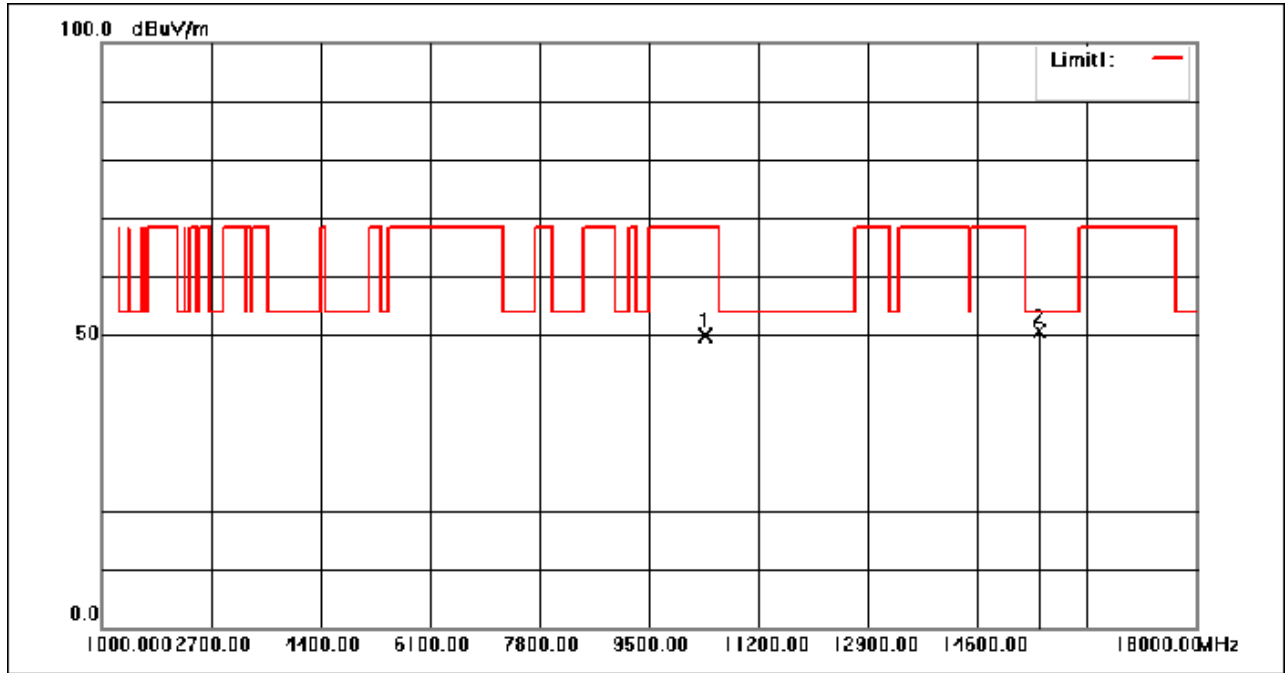
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 55 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	49.68	0.20	49.88	68.30	-18.42	peak
2	15570.000	44.72	5.79	50.51	54.00	-3.49	peak



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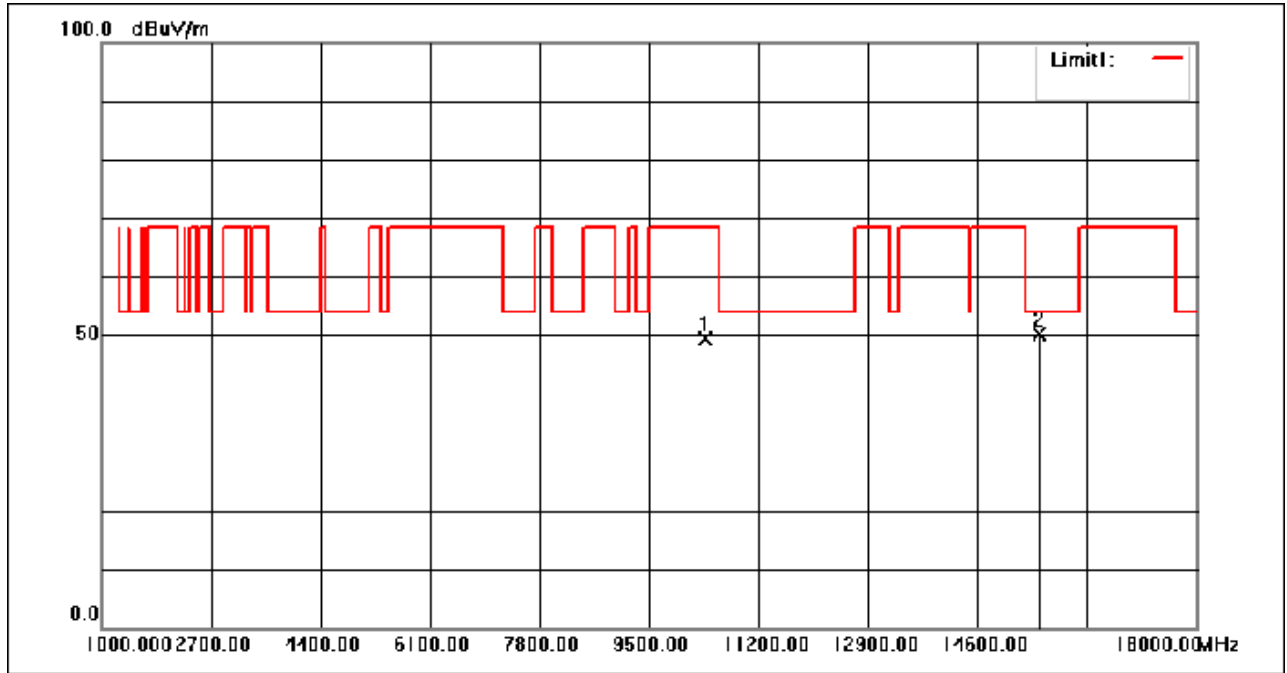
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	49.29	0.20	49.49	68.30	-18.81	peak
2	15570.000	44.35	5.79	50.14	54.00	-3.86	peak



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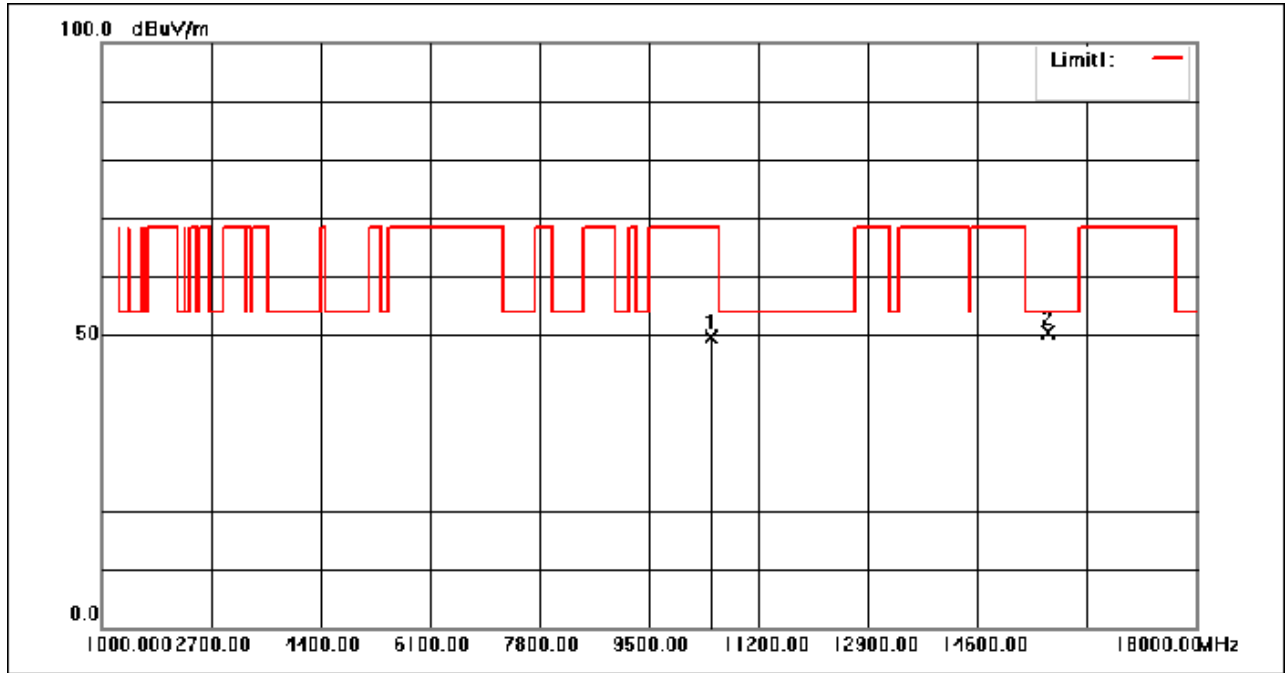


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.18	0.36	49.54	68.30	-18.76	peak
2	15690.000	44.42	6.04	50.46	54.00	-3.54	peak



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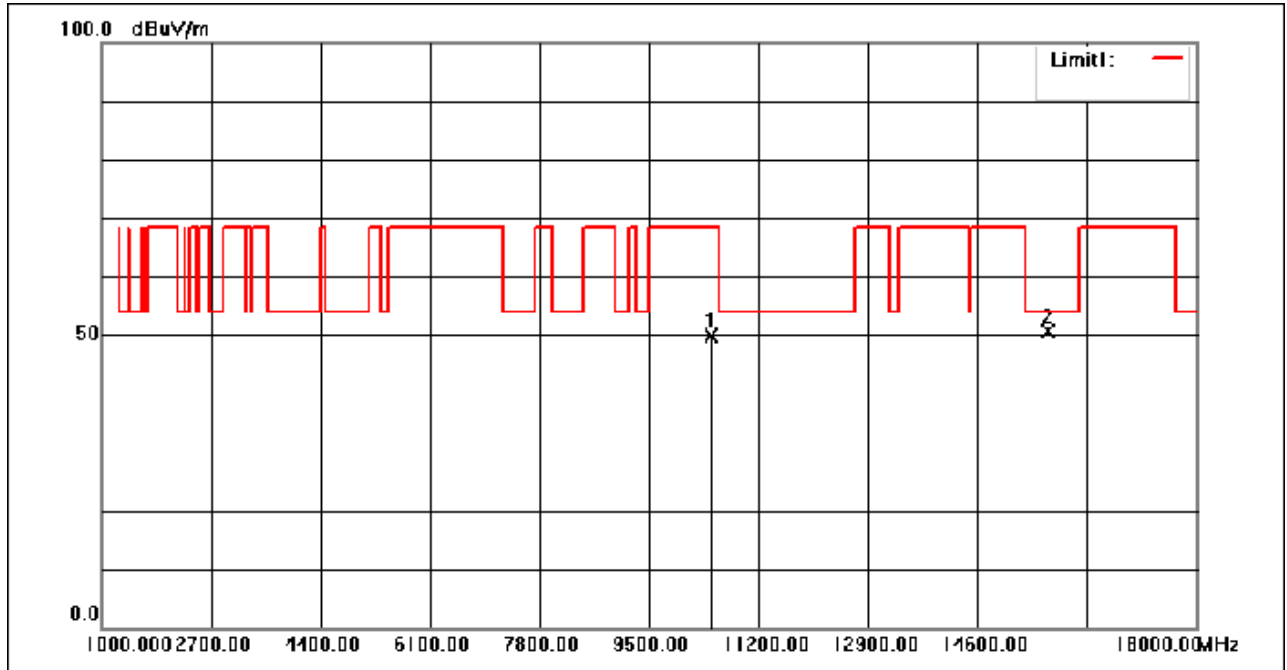
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 58 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.55	0.36	49.91	68.30	-18.39	peak
2	15690.000	44.70	6.04	50.74	54.00	-3.26	peak



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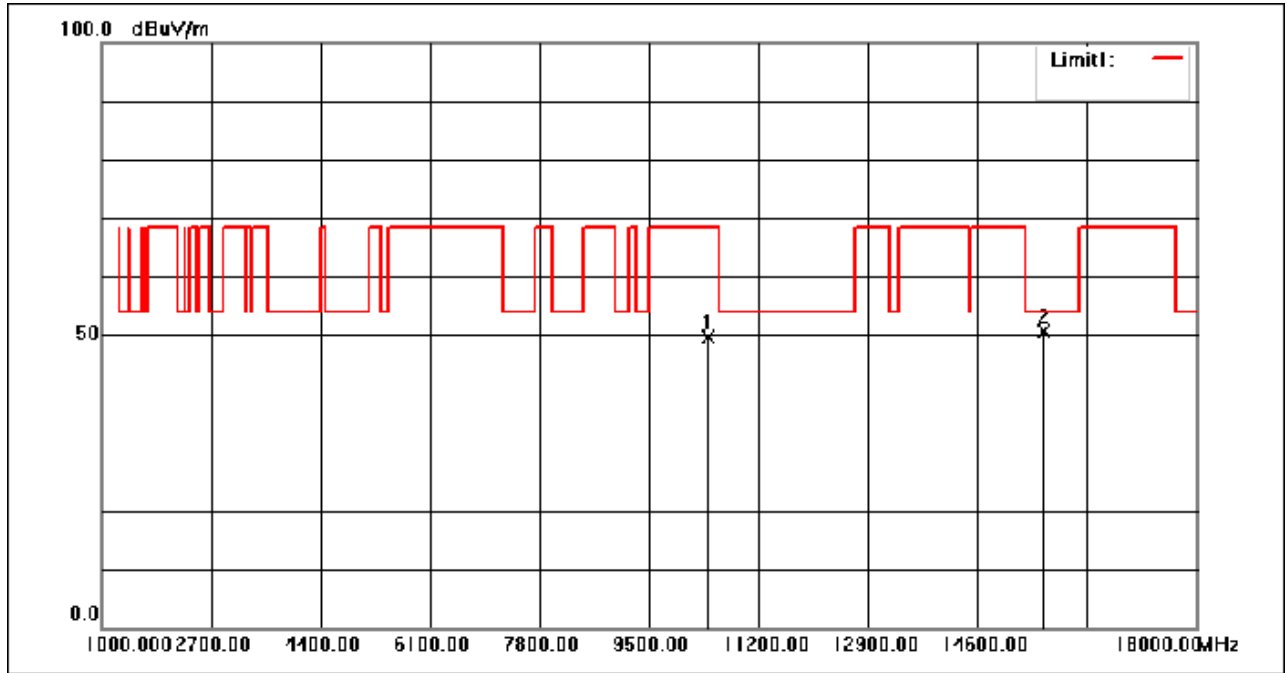
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 59 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	49.47	0.28	49.75	68.30	-18.55	peak
2	15630.000	44.80	5.92	50.72	54.00	-3.28	peak



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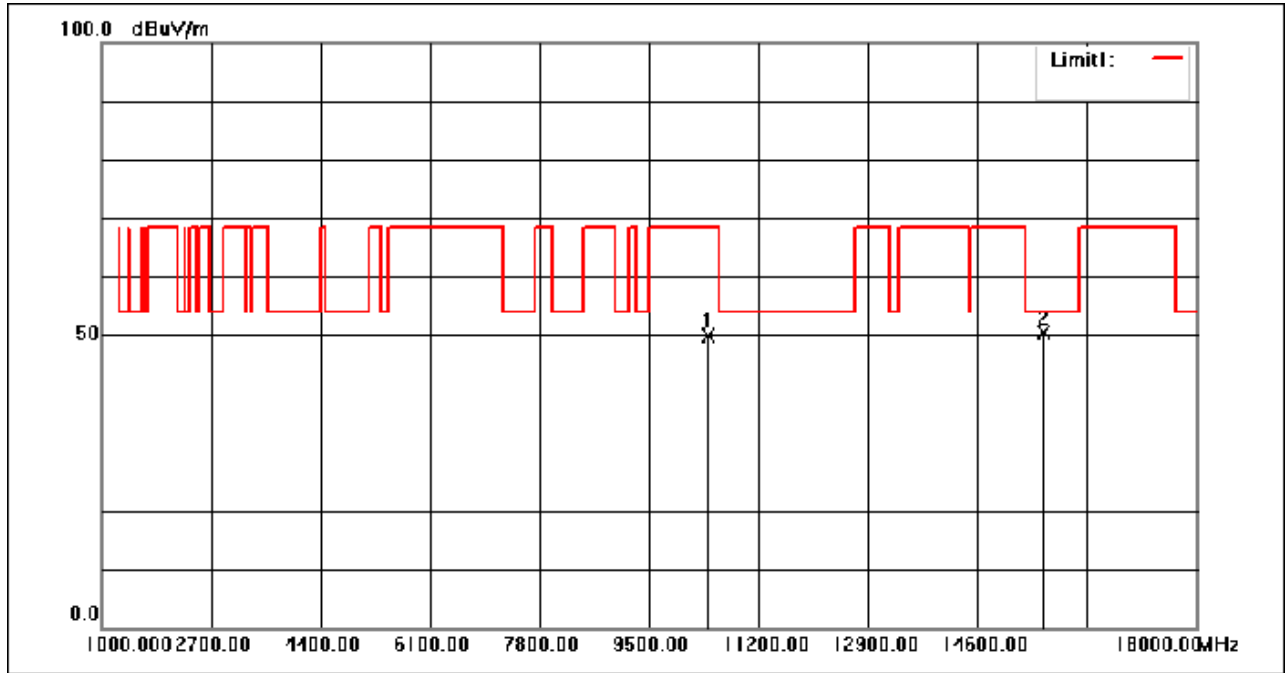
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 60 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	49.49	0.28	49.77	68.30	-18.53	peak
2	15630.000	44.37	5.92	50.29	54.00	-3.71	peak



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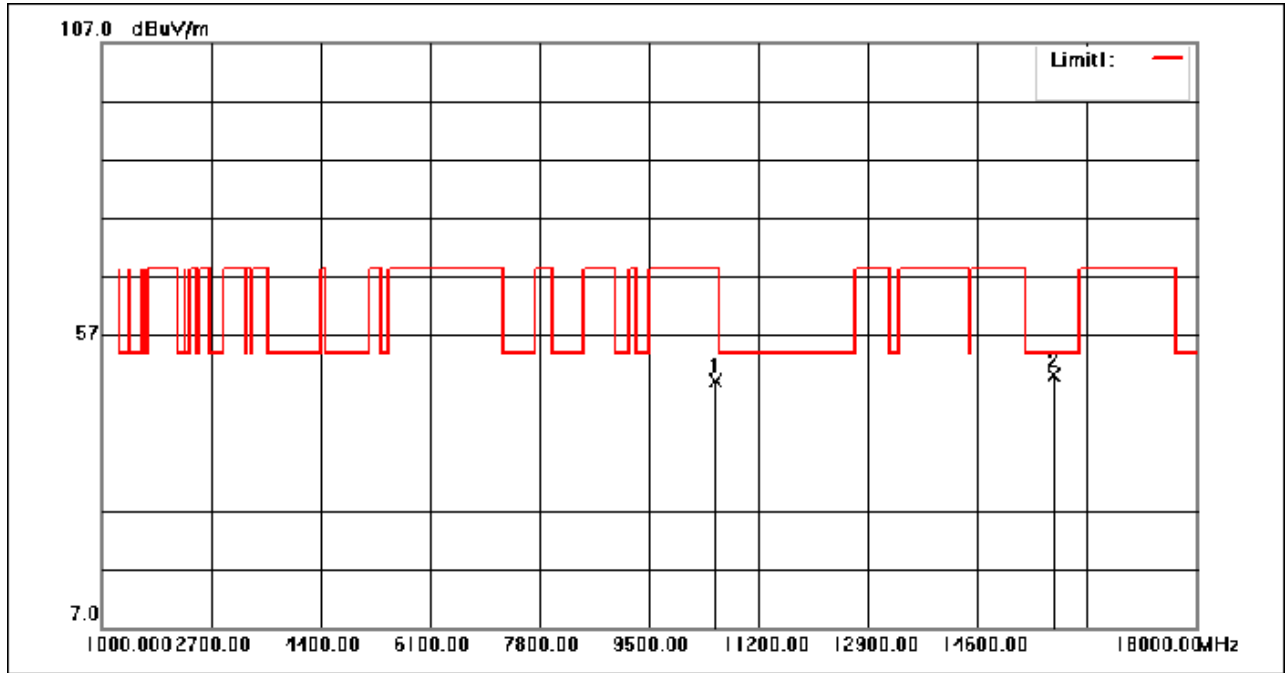


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 61 of 575

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	10520.000	48.64	0.44	49.08	68.30	-19.22	peak
2	15780.000	43.88	6.23	50.11	54.00	-3.89	peak



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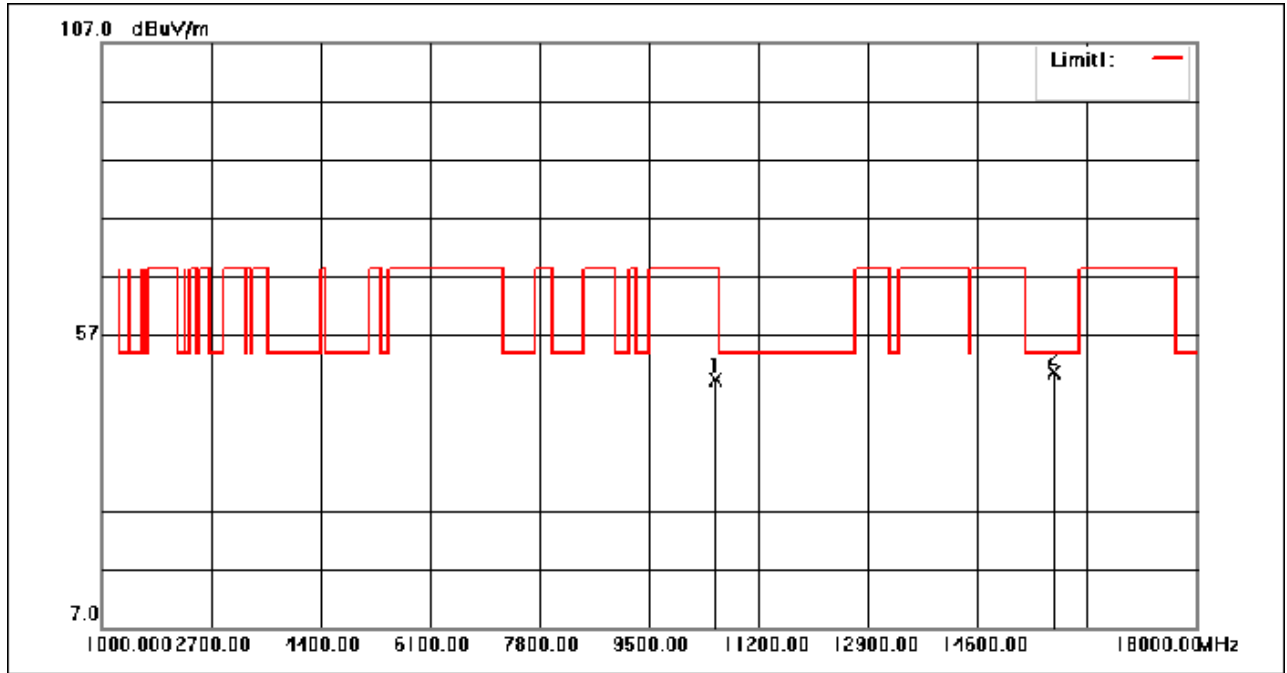
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 62 of 575

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	10520.000	49.01	0.44	49.45	68.30	-18.85	peak
2	15780.000	44.35	6.23	50.58	54.00	-3.42	peak

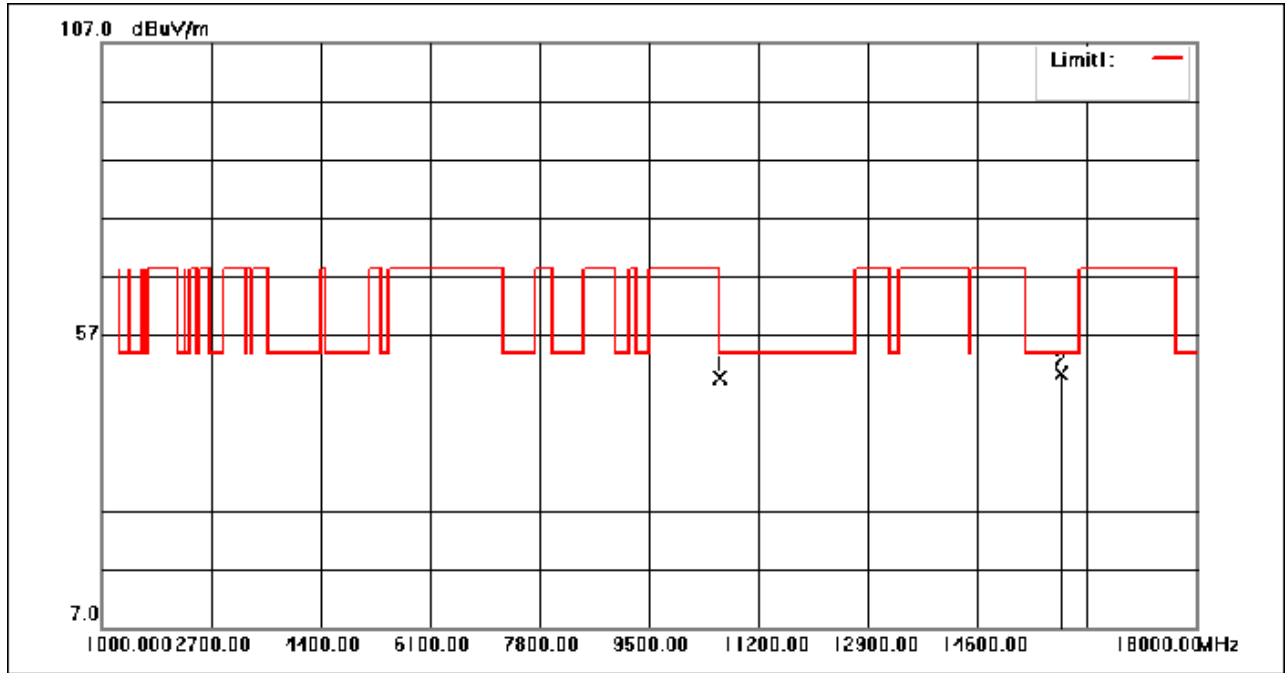


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.22	0.46	49.68	54.00	-4.32	peak
2	15900.000	43.79	6.48	50.27	54.00	-3.73	peak



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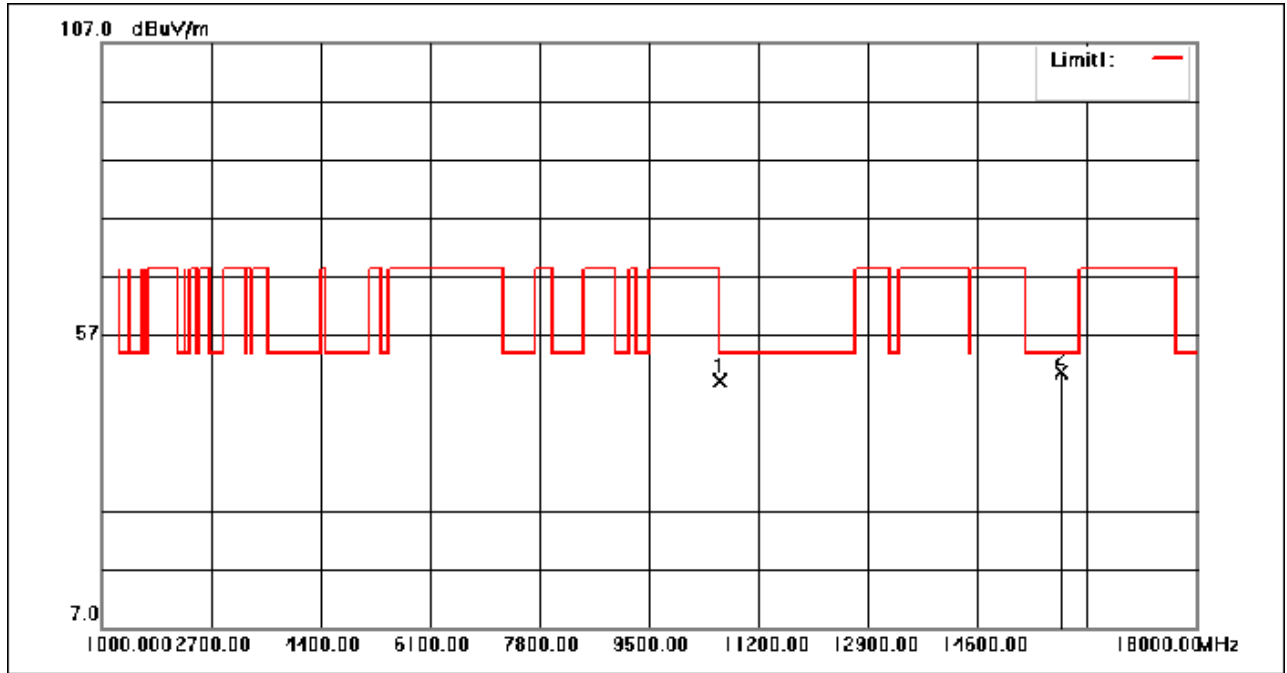
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	48.72	0.46	49.18	54.00	-4.82	peak
2	15900.000	44.10	6.48	50.58	54.00	-3.42	peak



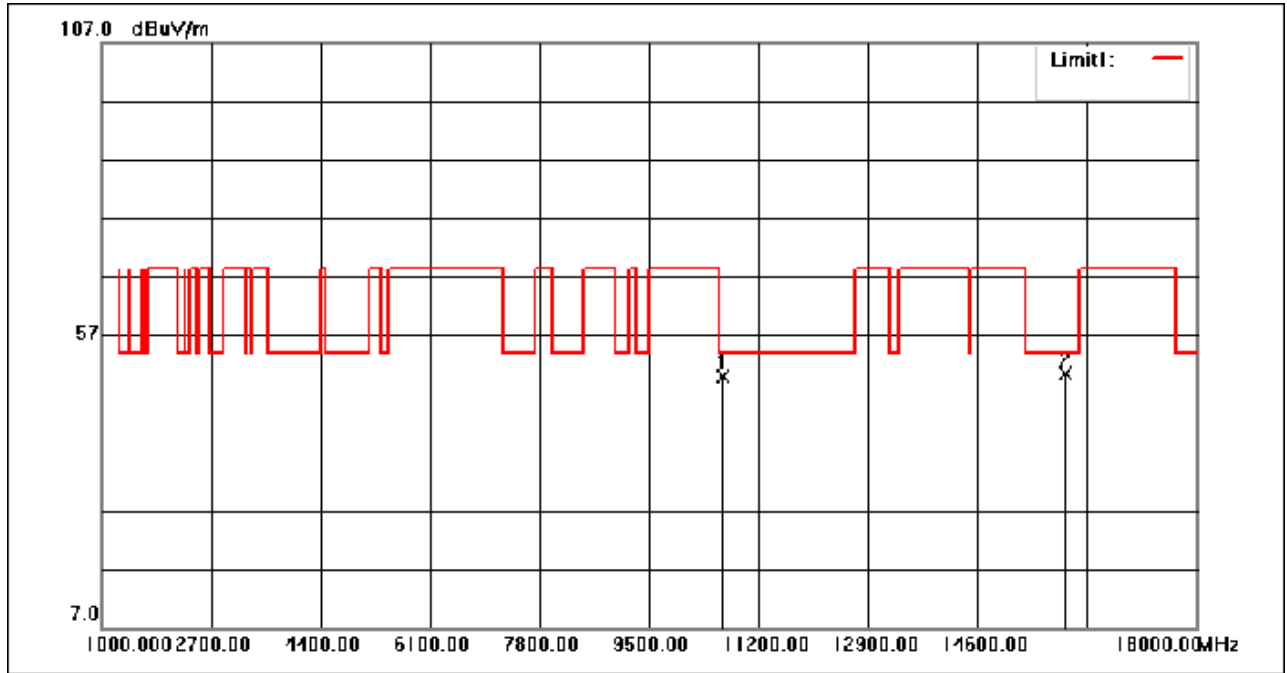
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.38	0.46	49.84	54.00	-4.16	peak
2	15960.000	43.81	6.60	50.41	54.00	-3.59	peak

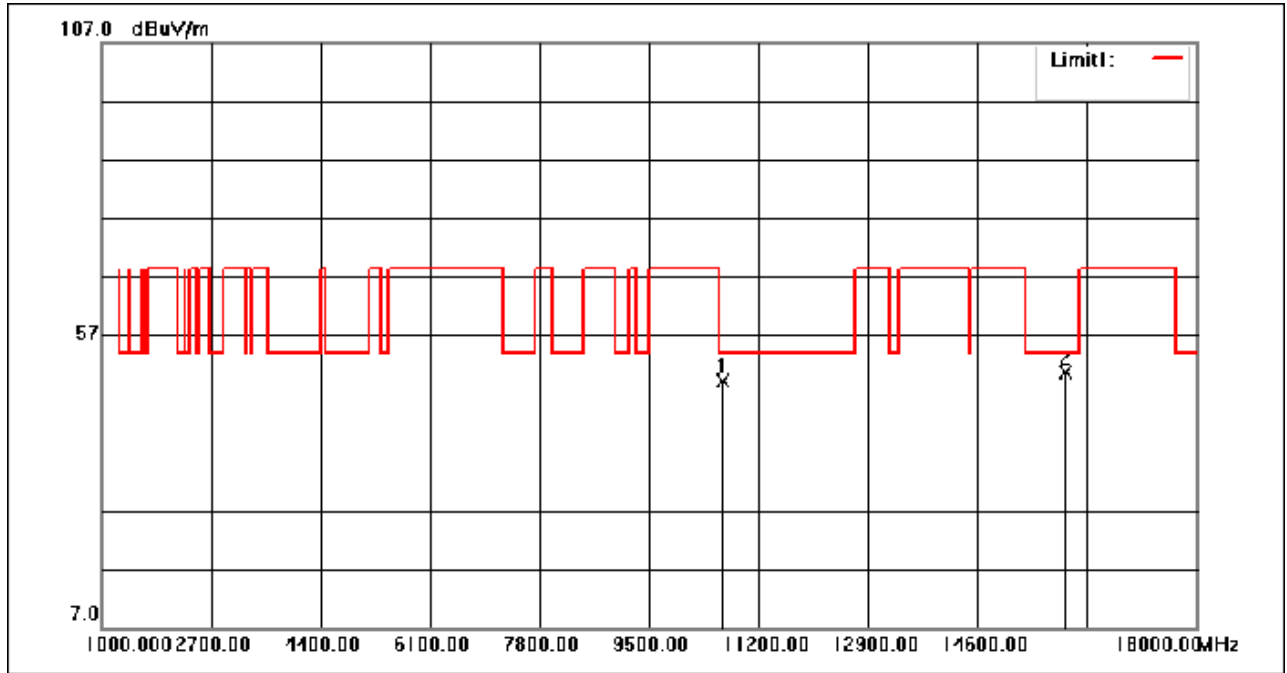


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	48.72	0.46	49.18	54.00	-4.82	peak
2	15960.000	44.04	6.60	50.64	54.00	-3.36	peak

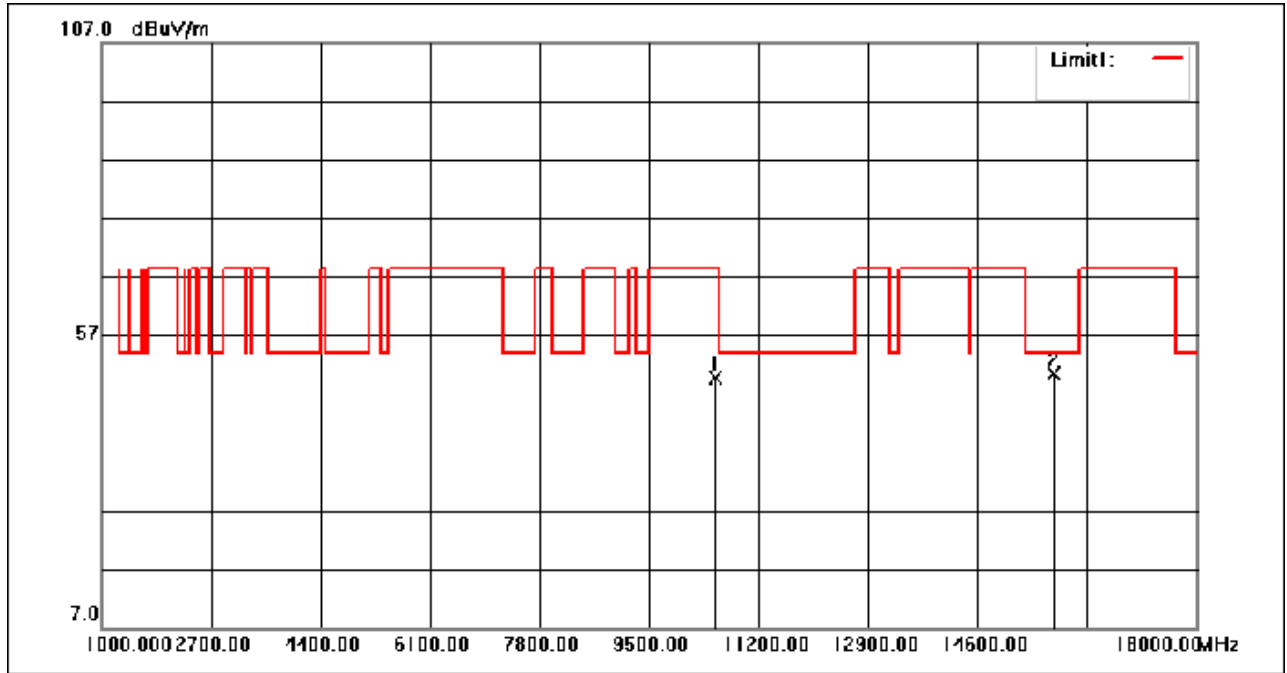


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.20	0.44	49.64	68.30	-18.66	peak
2	15780.000	44.13	6.23	50.36	54.00	-3.64	peak

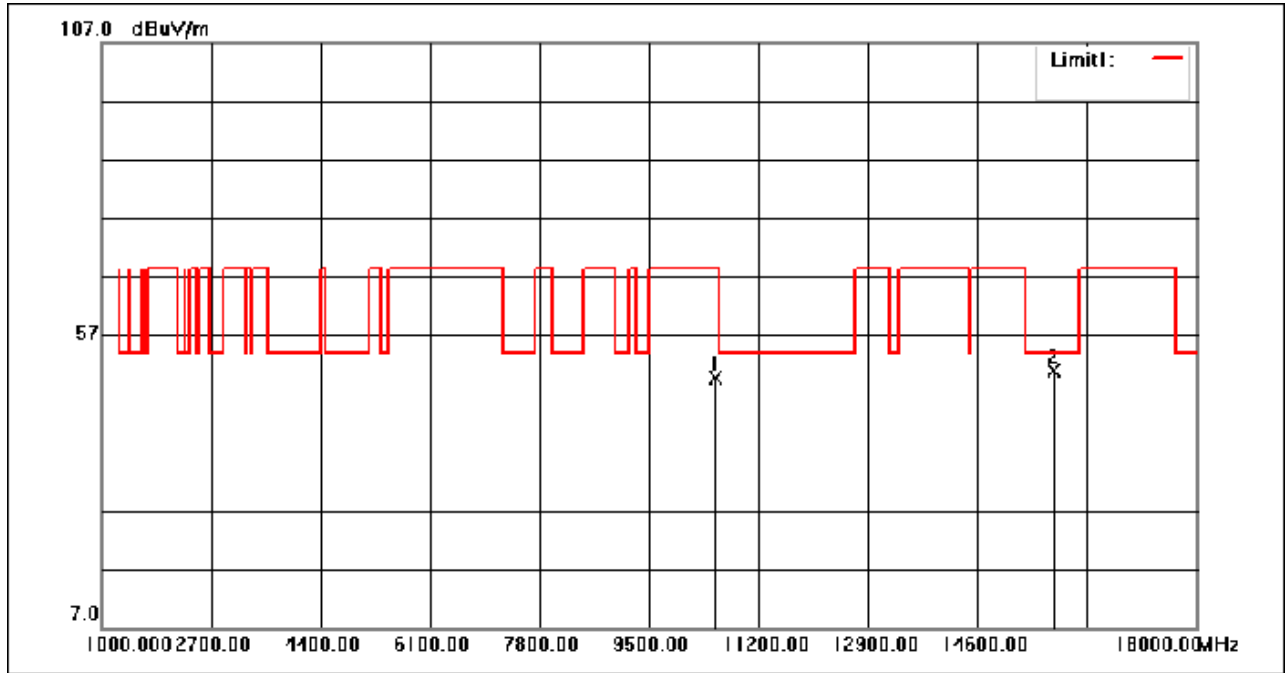


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.24	0.44	49.68	68.30	-18.62	peak
2	15780.000	44.58	6.23	50.81	54.00	-3.19	peak



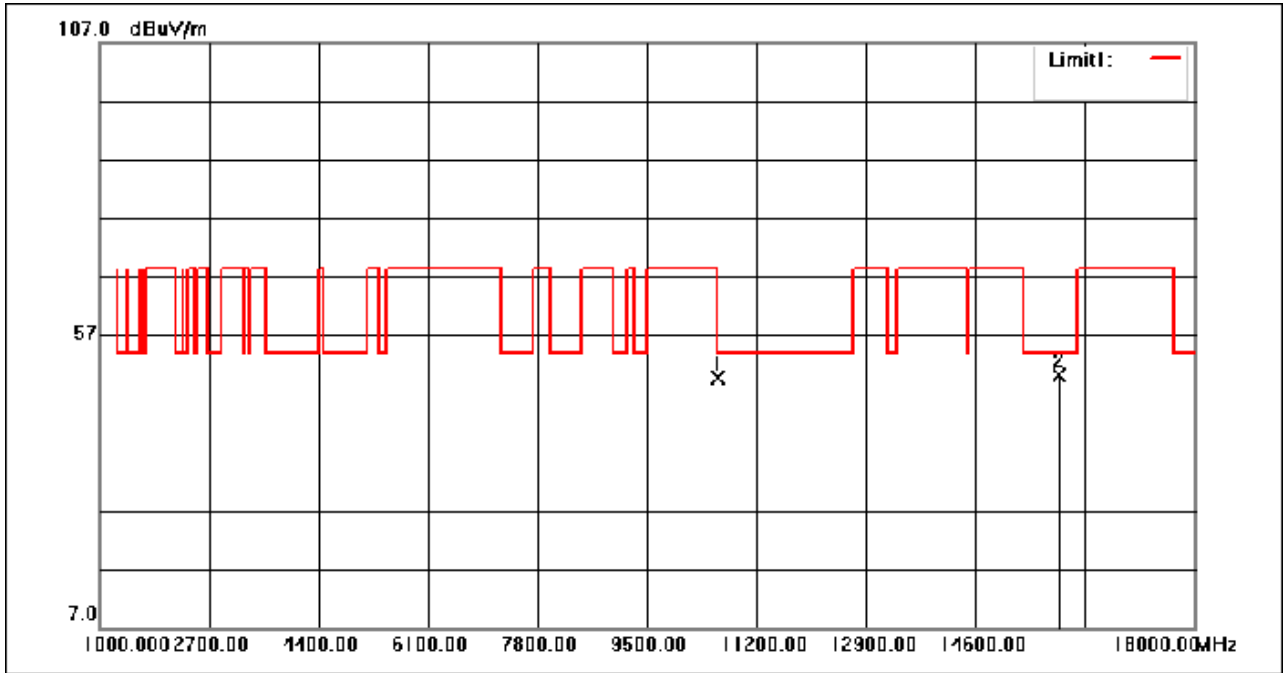
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.11	0.46	49.57	54.00	-4.43	peak
2	15900.000	43.63	6.48	50.11	54.00	-3.89	peak

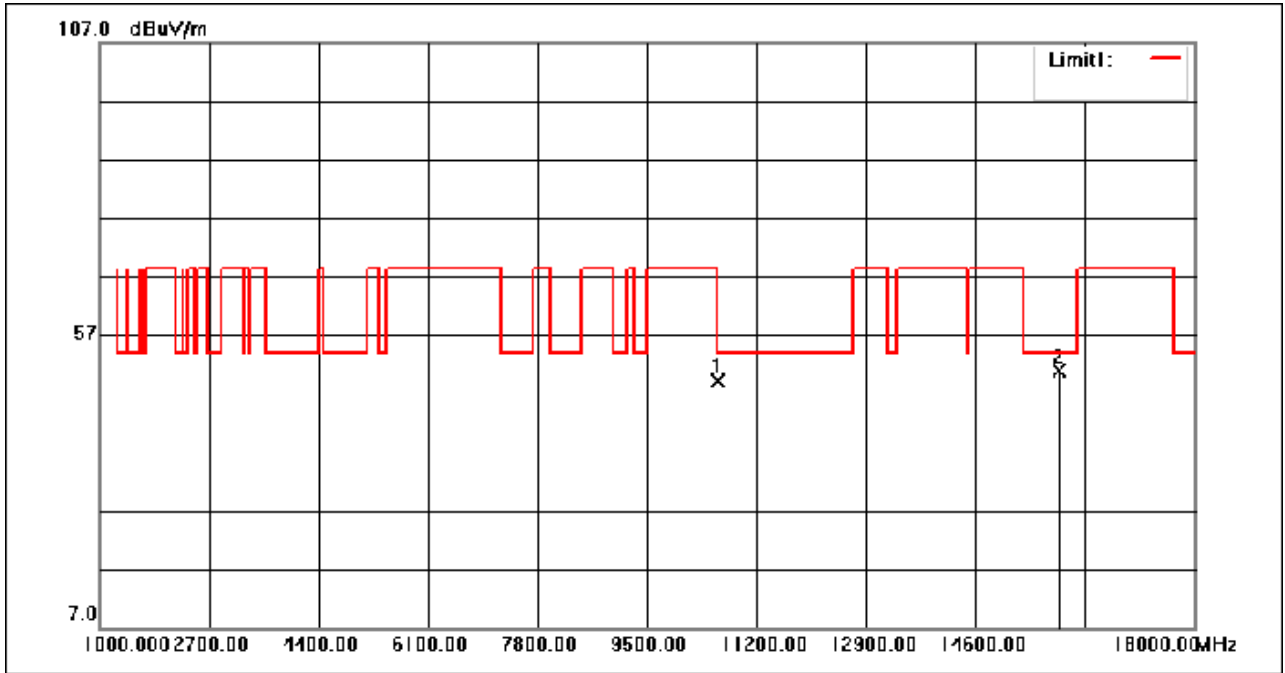


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	48.58	0.46	49.04	54.00	-4.96	peak
2	15900.000	44.31	6.48	50.79	54.00	-3.21	peak

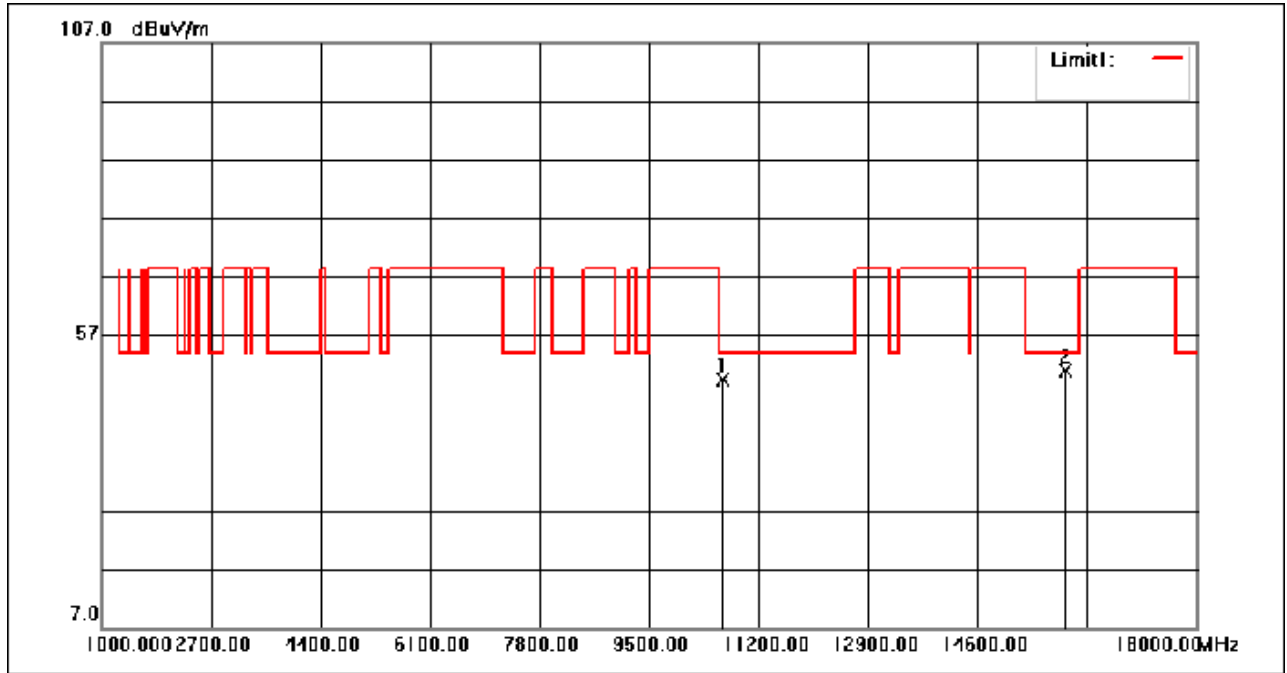


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	48.95	0.46	49.41	54.00	-4.59	peak
2	15960.000	44.37	6.60	50.97	54.00	-3.03	peak

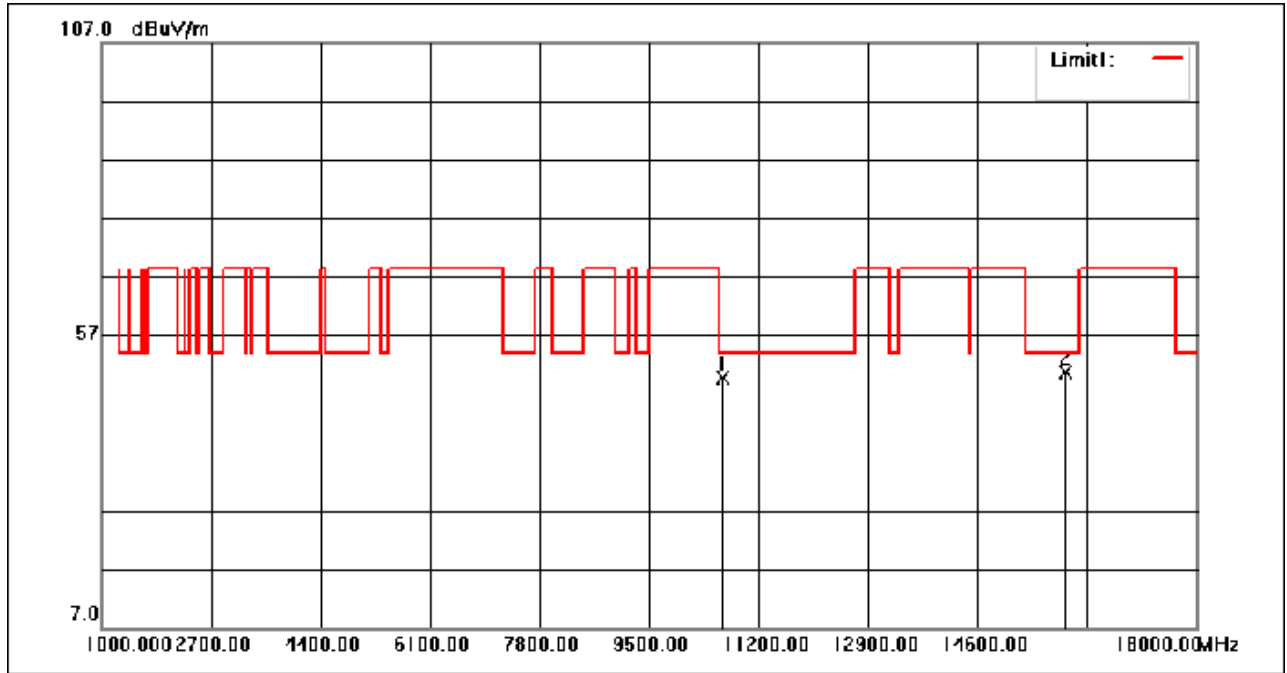


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.19	0.46	49.65	54.00	-4.35	peak
2	15960.000	44.00	6.60	50.60	54.00	-3.40	peak



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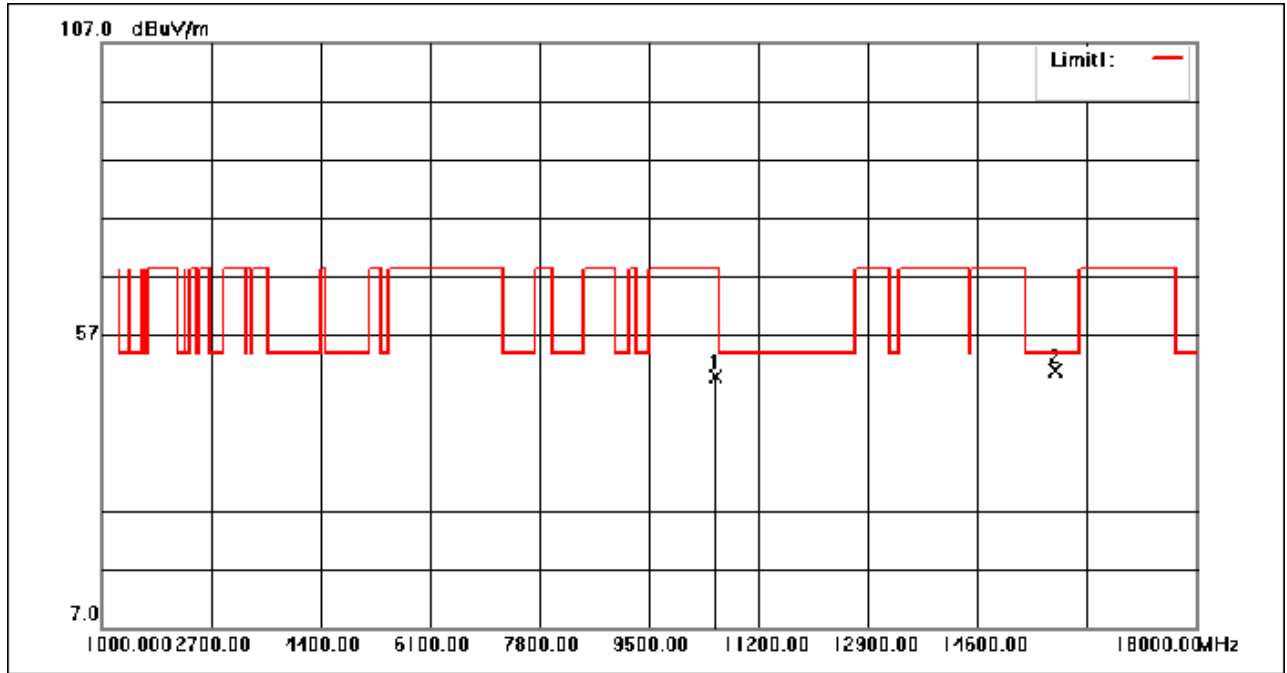


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 73 of 575

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	10540.000	49.49	0.44	49.93	68.30	-18.37	peak
2	15810.000	44.65	6.29	50.94	54.00	-3.06	peak



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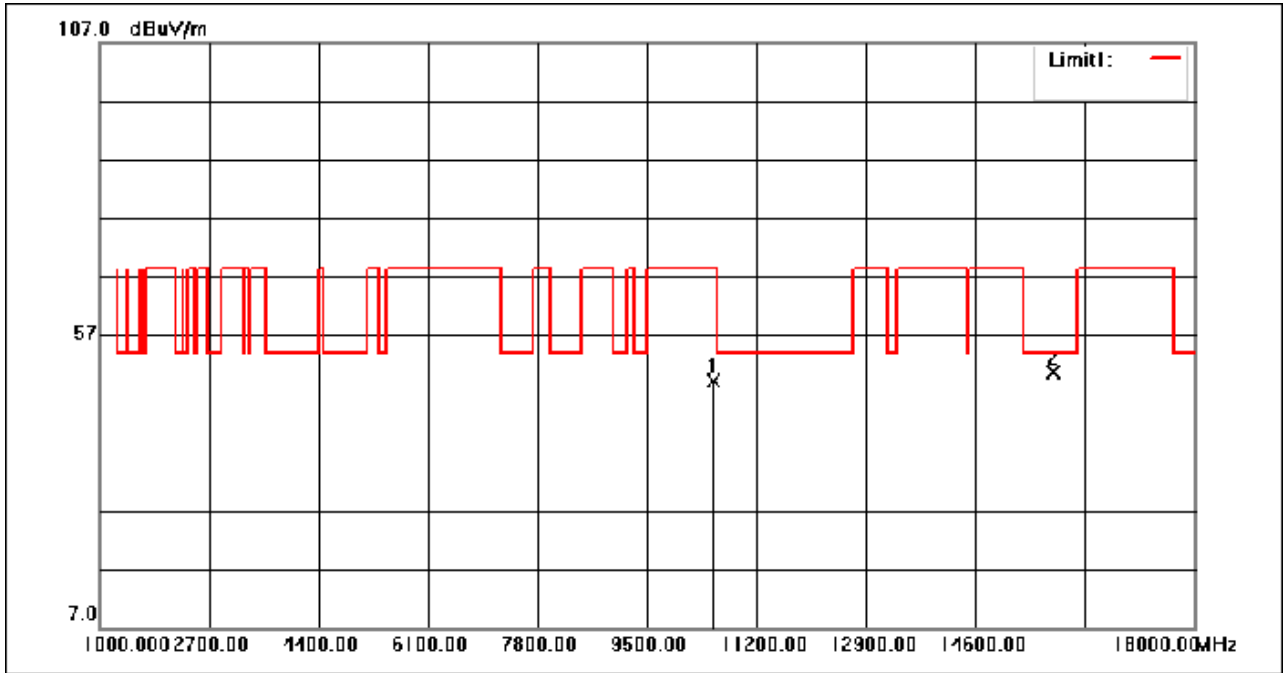
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 74 of 575

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	10540.000	48.72	0.44	49.16	68.30	-19.14	peak
2	15810.000	44.26	6.29	50.55	54.00	-3.45	peak



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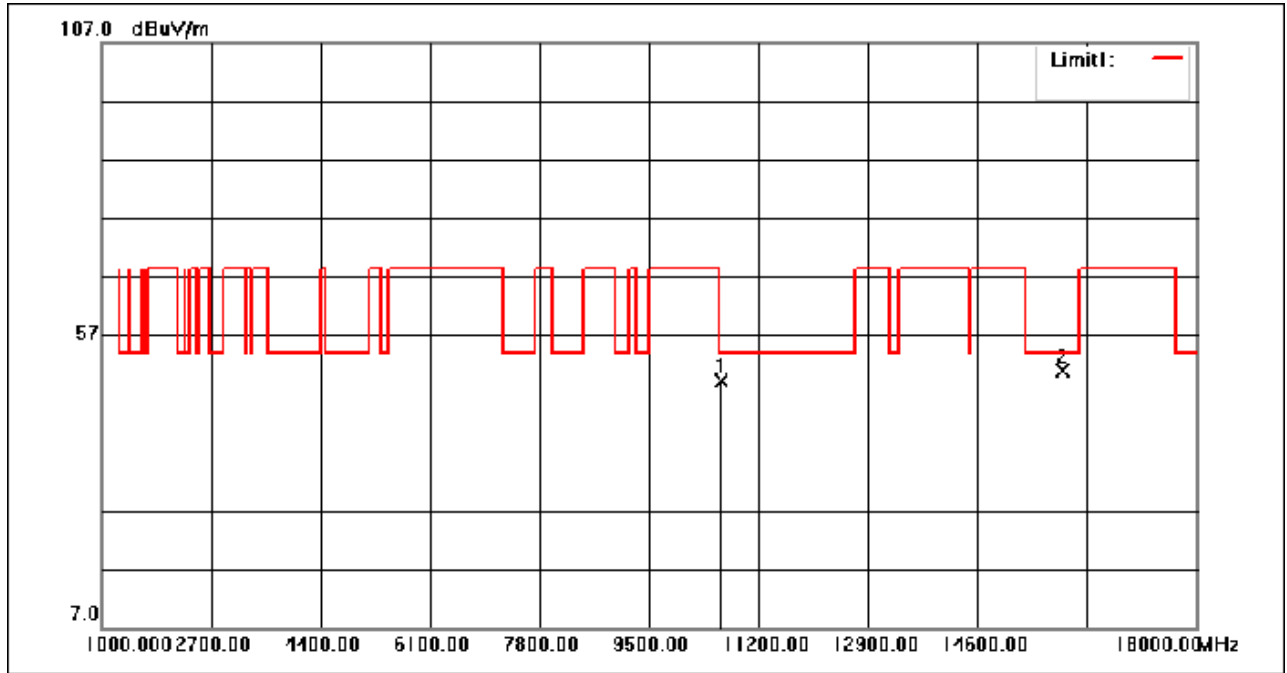
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 75 of 575

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	10620.000	48.64	0.46	49.10	54.00	-4.90	peak
2	15930.000	44.40	6.54	50.94	54.00	-3.06	peak

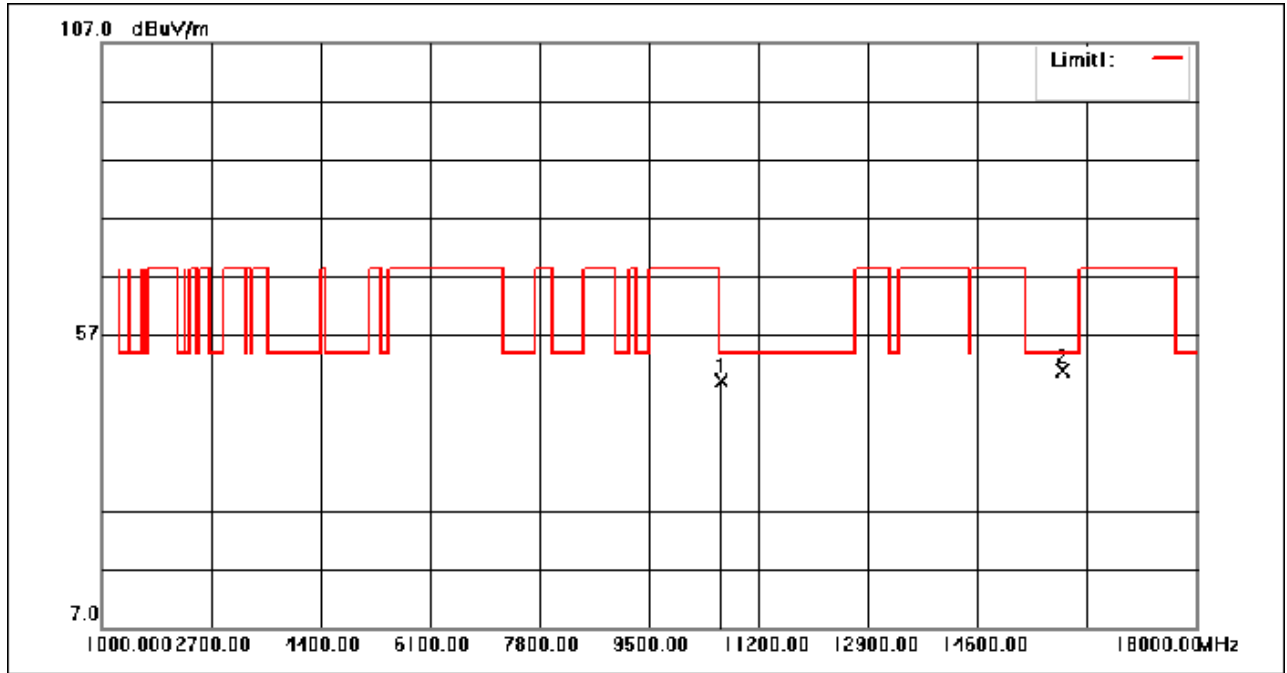


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	48.66	0.46	49.12	54.00	-4.88	peak
2	15930.000	44.37	6.54	50.91	54.00	-3.09	peak



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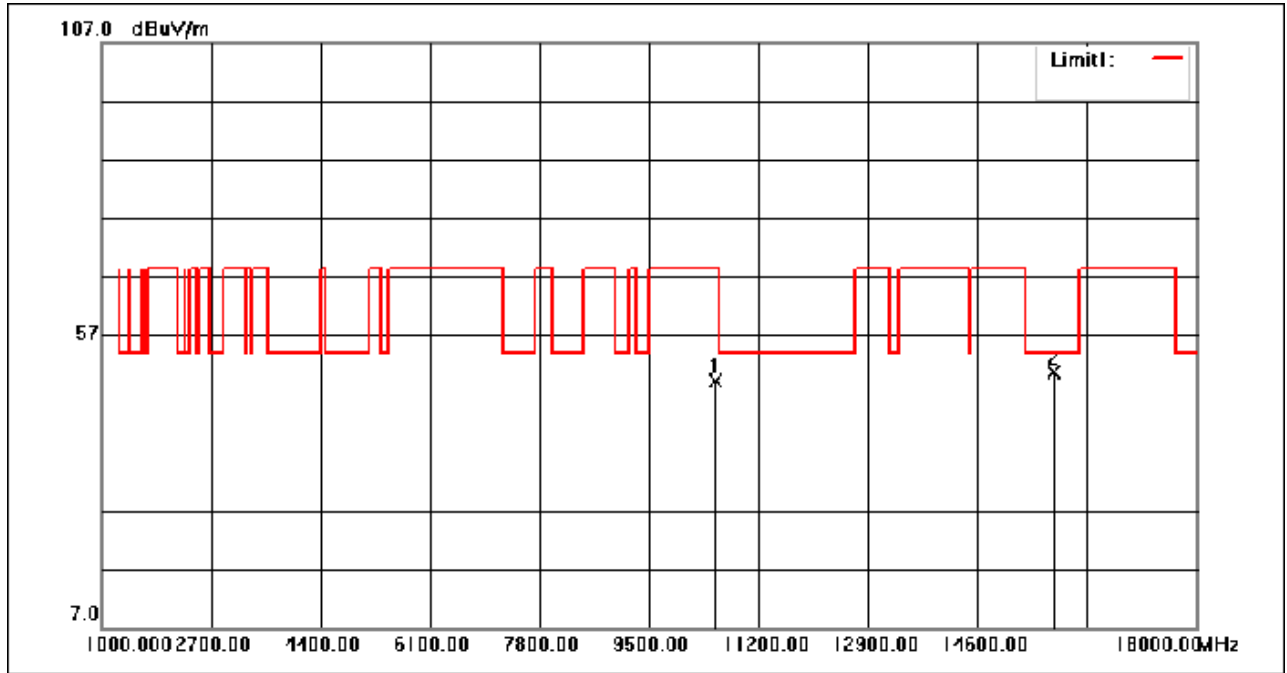


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 77 of 575

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	10520.000	48.74	0.44	49.18	68.30	-19.12	peak
2	15780.000	44.49	6.23	50.72	54.00	-3.28	peak



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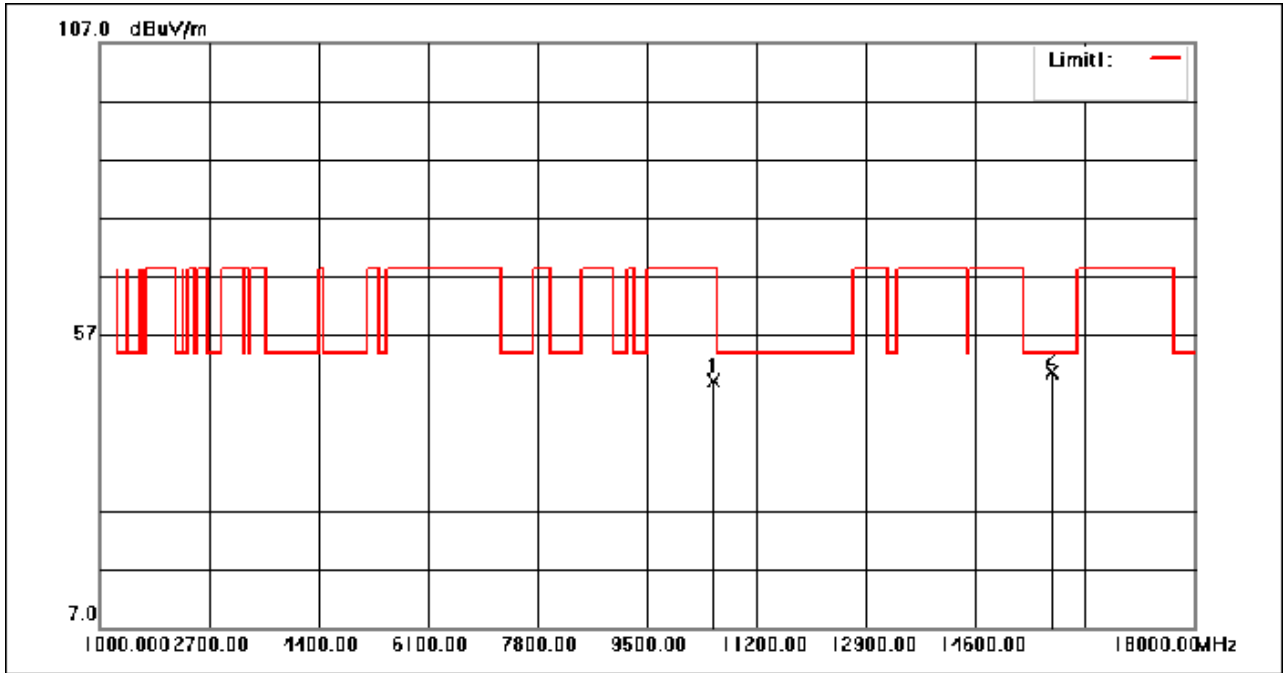
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 78 of 575

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	10520.000	48.62	0.44	49.06	68.30	-19.24	peak
2	15780.000	44.43	6.23	50.66	54.00	-3.34	peak



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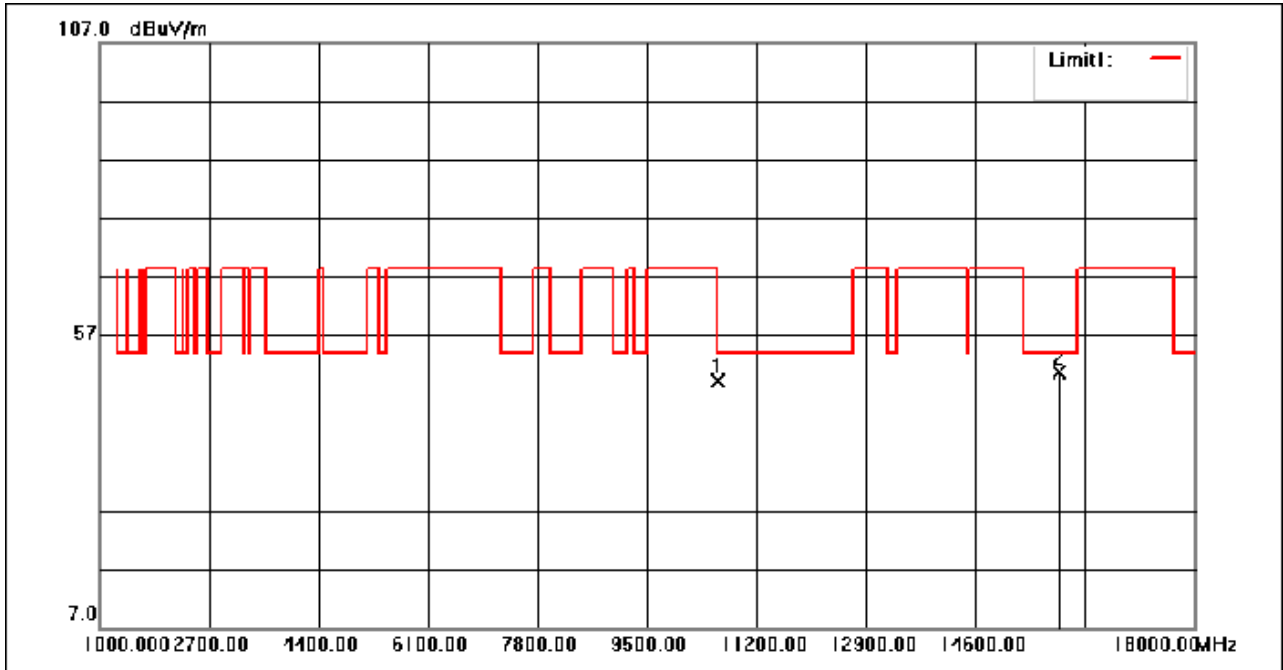
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 79 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	48.77	0.46	49.23	54.00	-4.77	peak
2	15900.000	44.24	6.48	50.72	54.00	-3.28	peak



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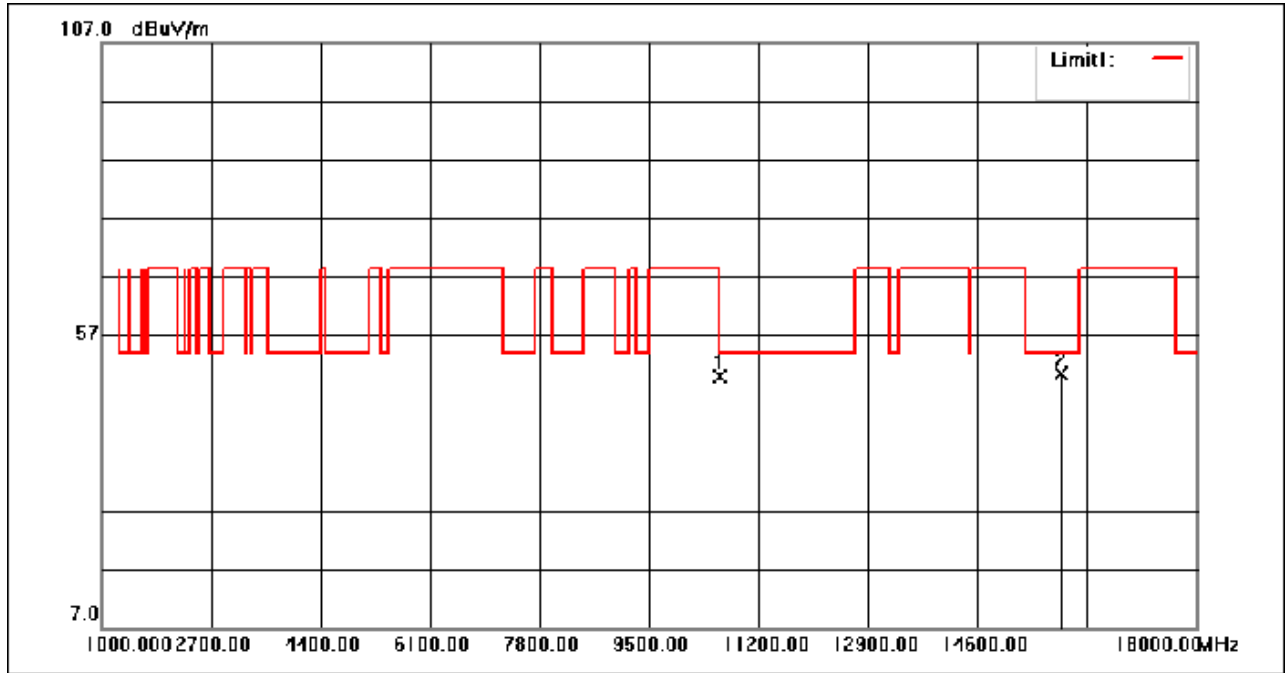
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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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	10600.000	49.38	0.46	49.84	54.00	-4.16	peak
2	15900.000	43.86	6.48	50.34	54.00	-3.66	peak



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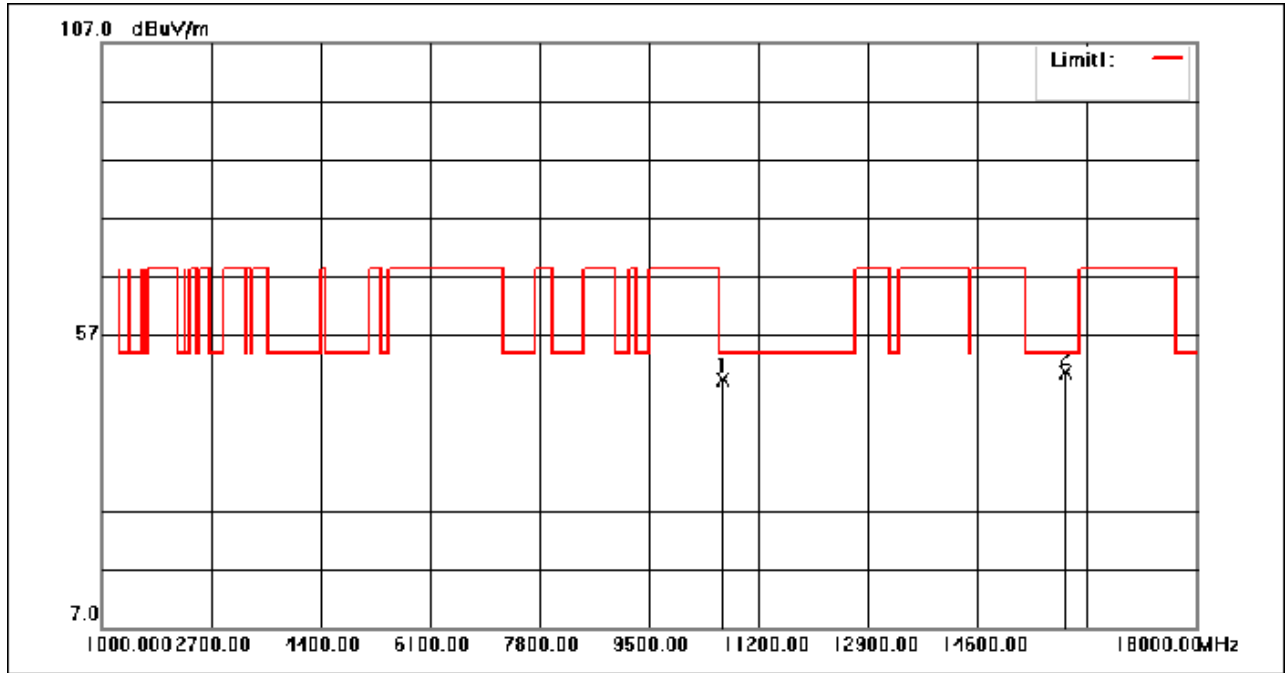


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 81 of 575

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	10640.000	48.90	0.46	49.36	54.00	-4.64	peak
2	15960.000	44.14	6.60	50.74	54.00	-3.26	peak

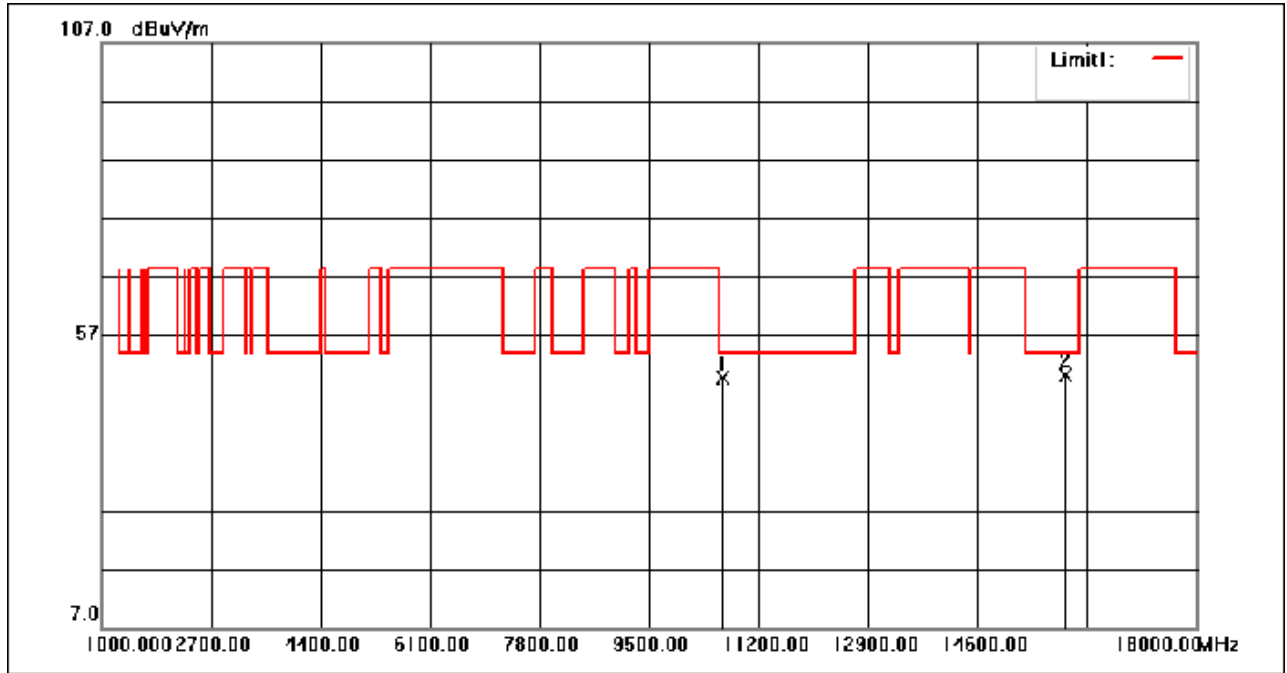


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.06	0.46	49.52	54.00	-4.48	peak
2	15960.000	43.55	6.60	50.15	54.00	-3.85	peak



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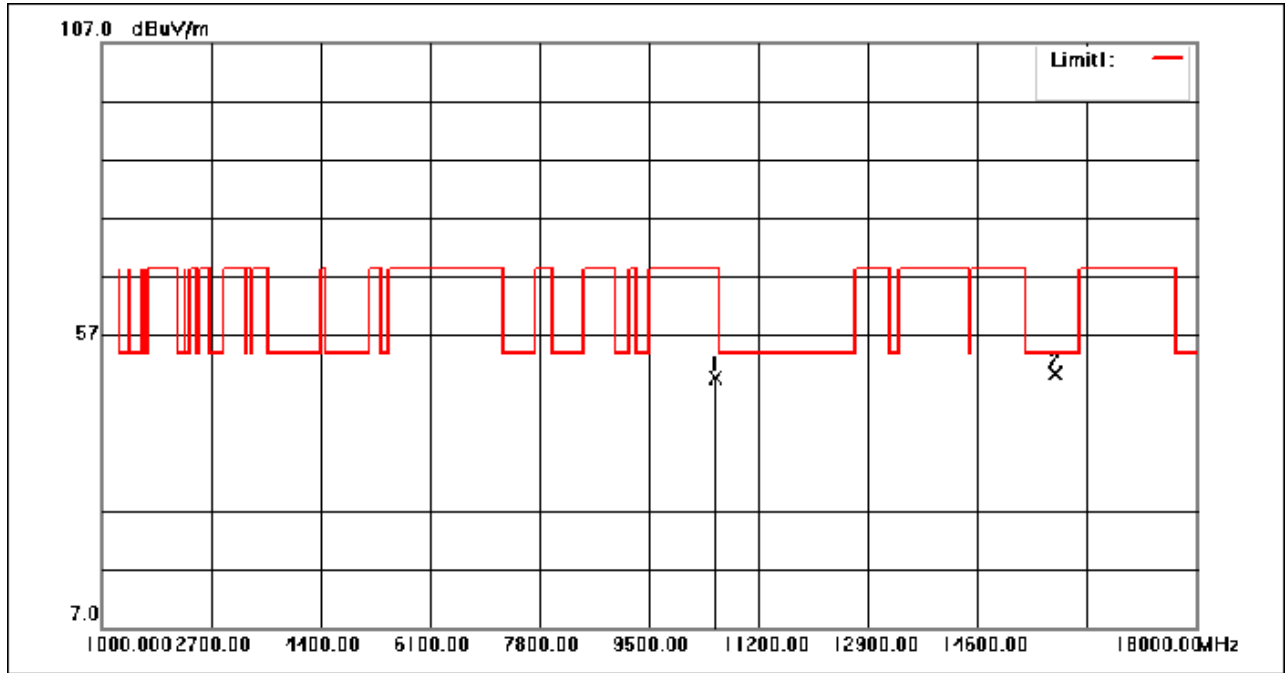
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 83 of 575

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	10540.000	49.30	0.44	49.74	68.30	-18.56	peak
2	15810.000	44.02	6.29	50.31	54.00	-3.69	peak



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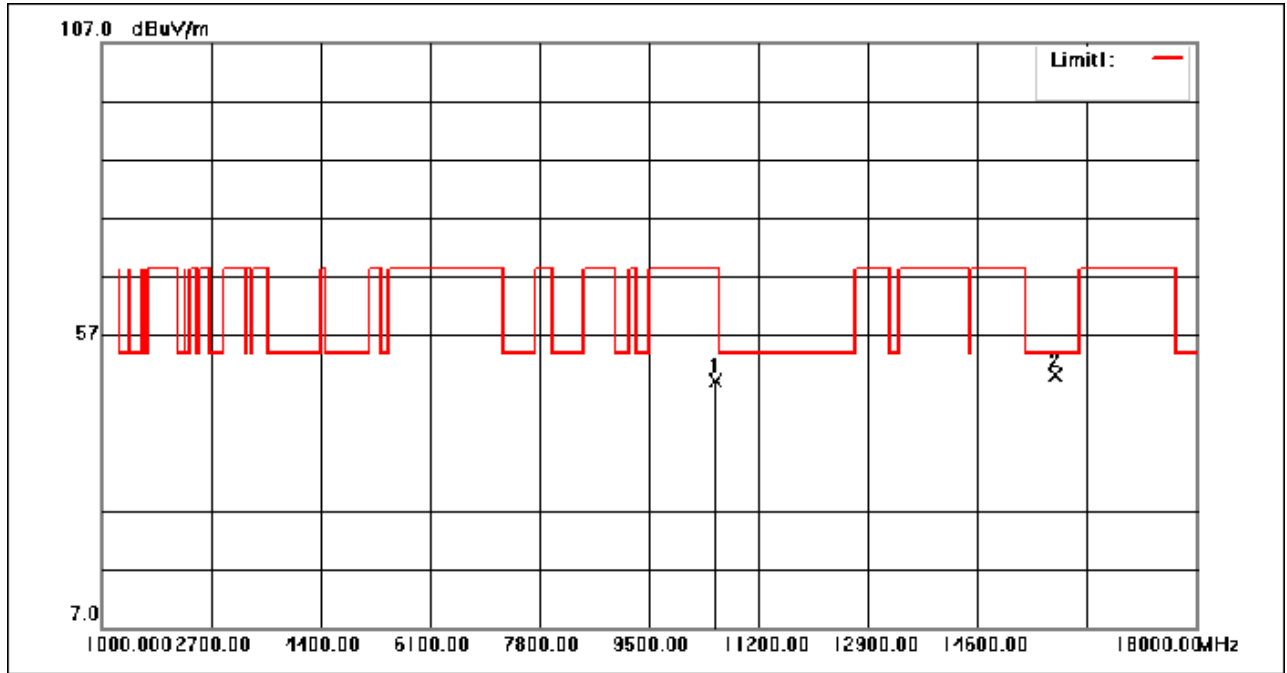
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 84 of 575

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	10540.000	48.81	0.44	49.25	68.30	-19.05	peak
2	15810.000	43.86	6.29	50.15	54.00	-3.85	peak



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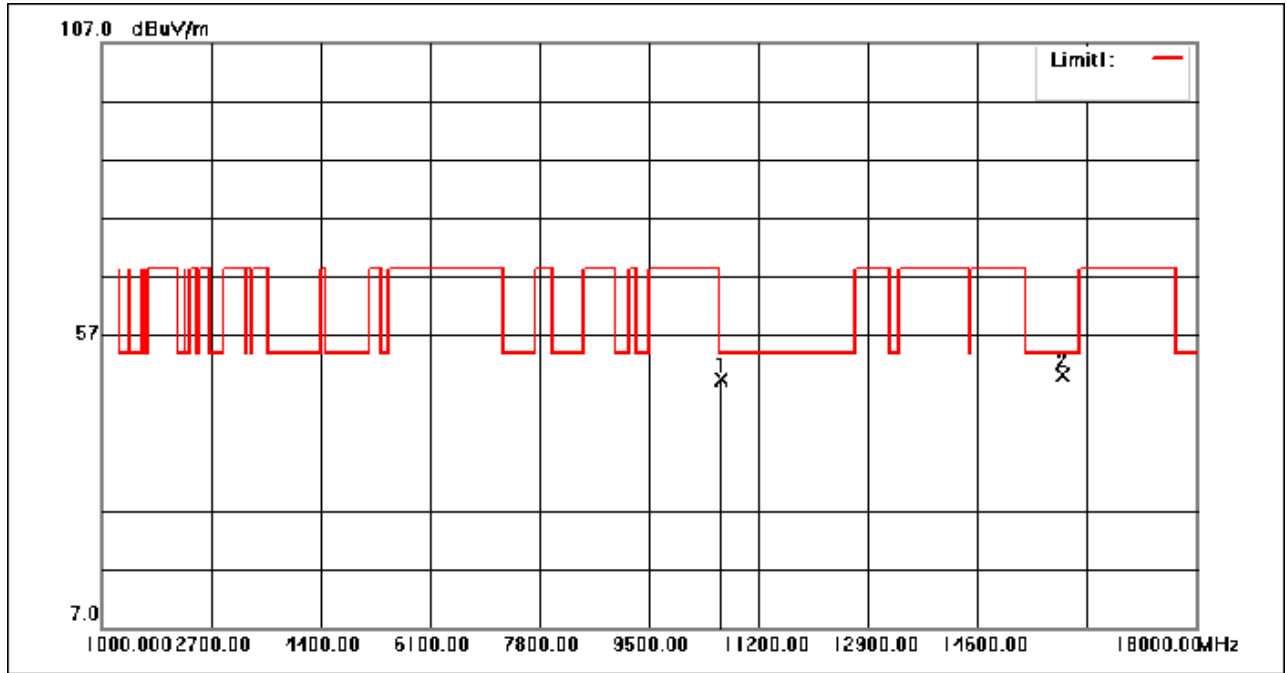


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 85 of 575

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	10620.000	48.86	0.46	49.32	54.00	-4.68	peak
2	15930.000	43.65	6.54	50.19	54.00	-3.81	peak



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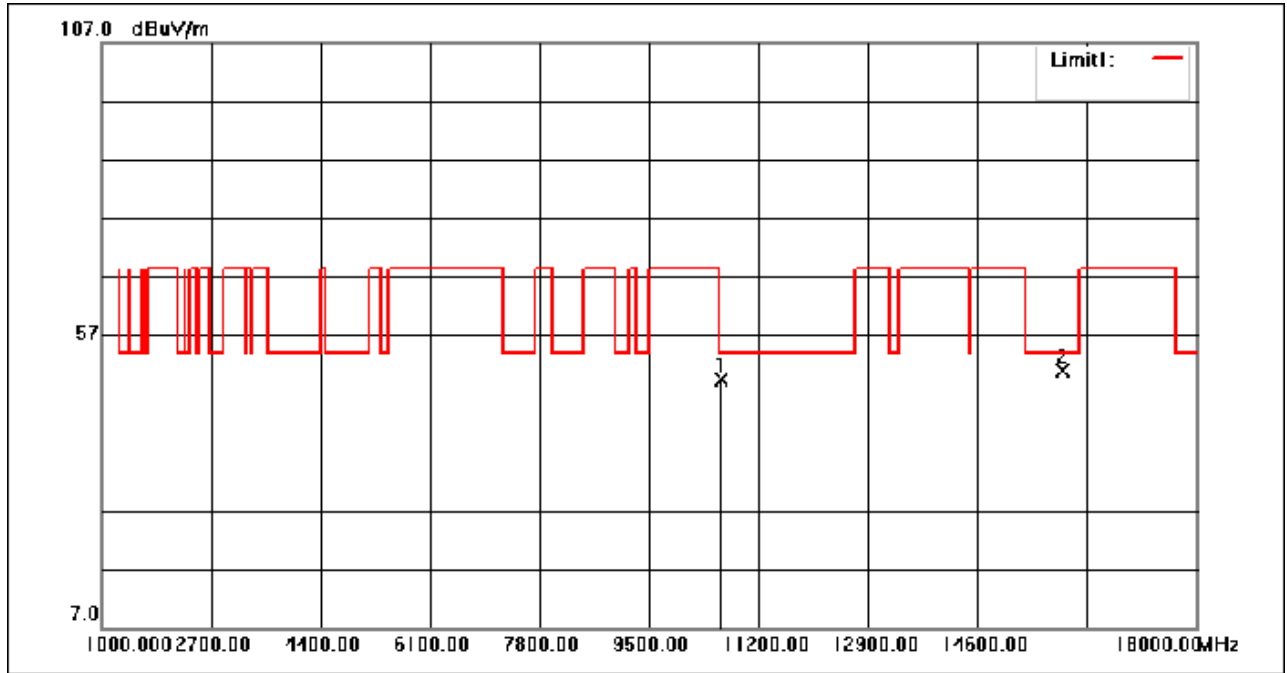
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 86 of 575

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	10620.000	48.99	0.46	49.45	54.00	-4.55	peak
2	15930.000	44.26	6.54	50.80	54.00	-3.20	peak

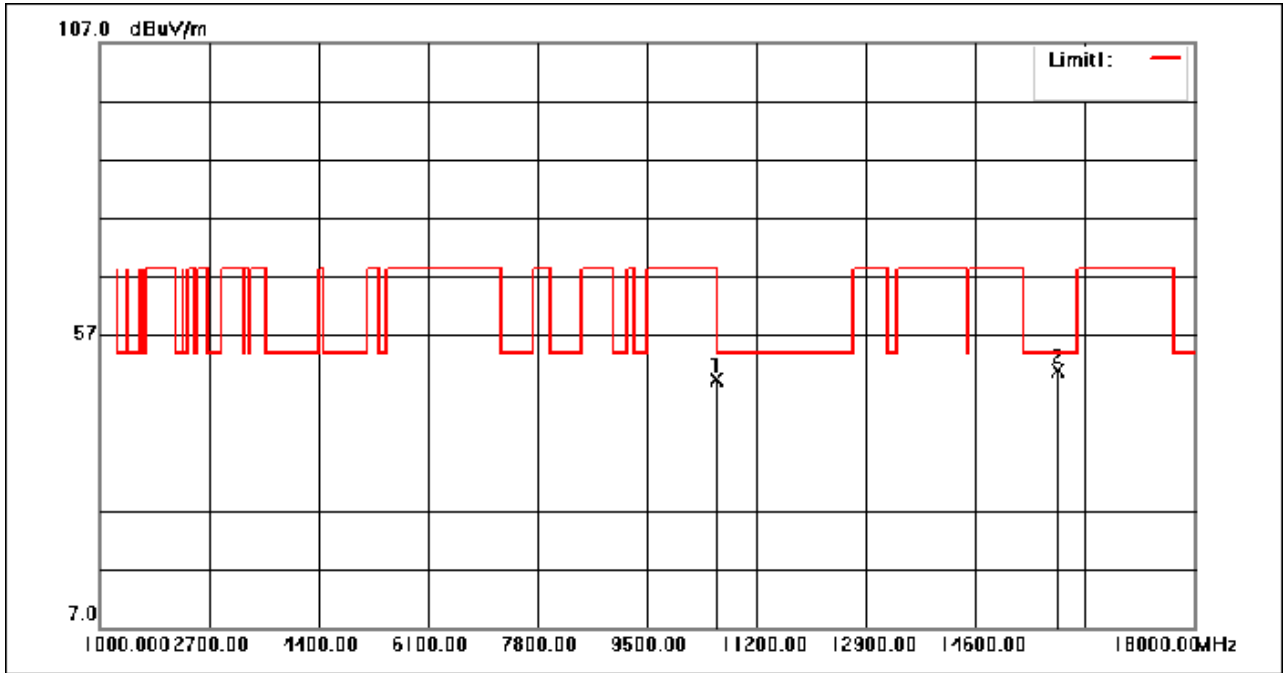


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	49.03	0.46	49.49	68.30	-18.81	peak
2	15870.000	44.58	6.41	50.99	54.00	-3.01	peak



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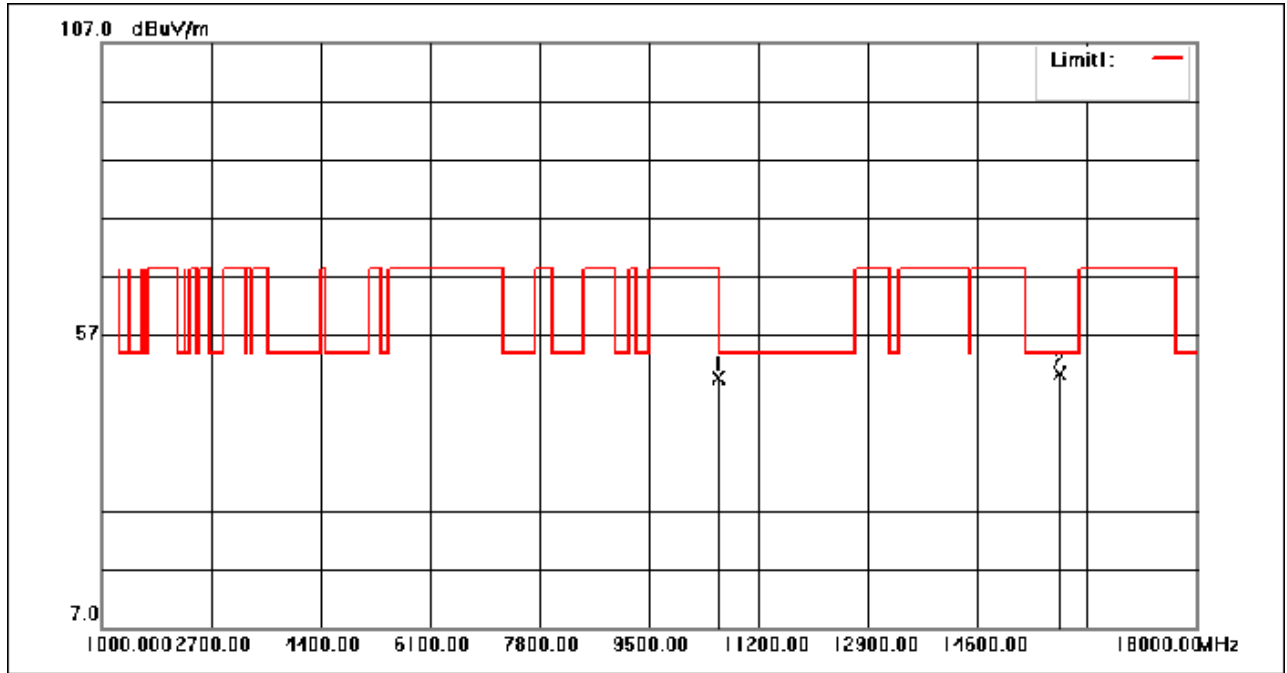
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 88 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	49.18	0.46	49.64	68.30	-18.66	peak
2	15870.000	44.00	6.41	50.41	54.00	-3.59	peak



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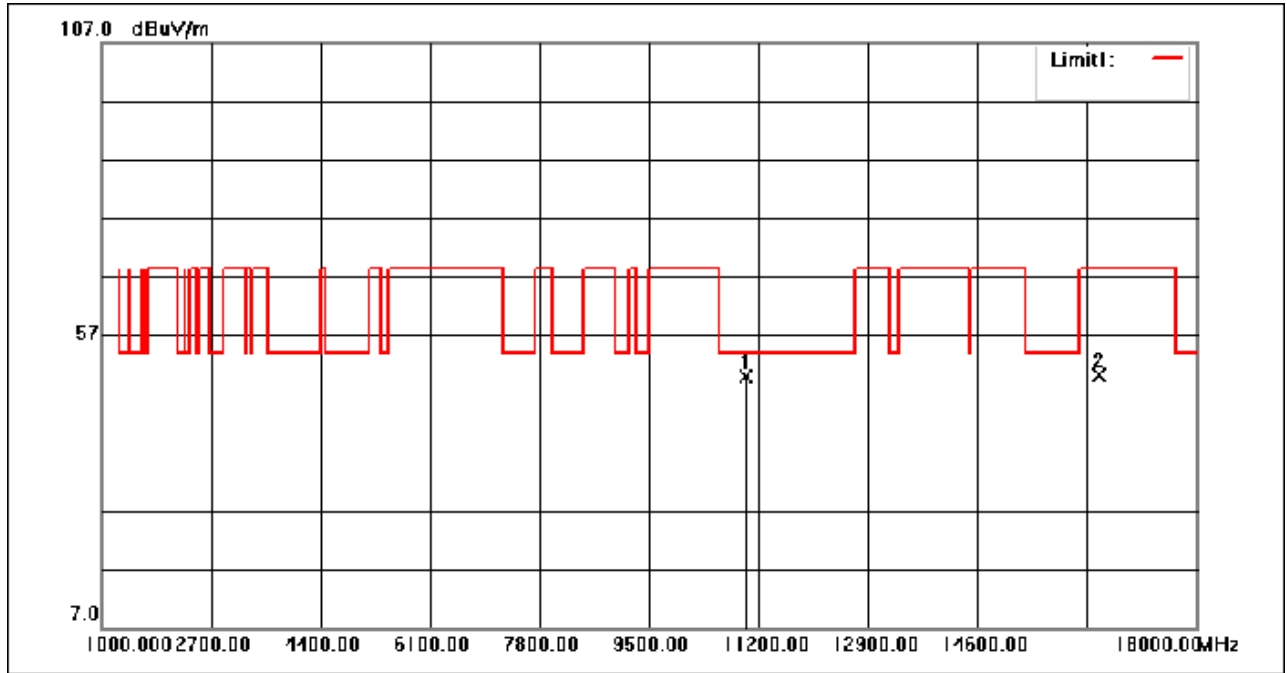


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 89 of 575

Test Mode: 03; 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	11000.000	49.36	0.54	49.90	54.00	-4.10	peak
2	16500.000	41.81	8.43	50.24	68.30	-18.06	peak



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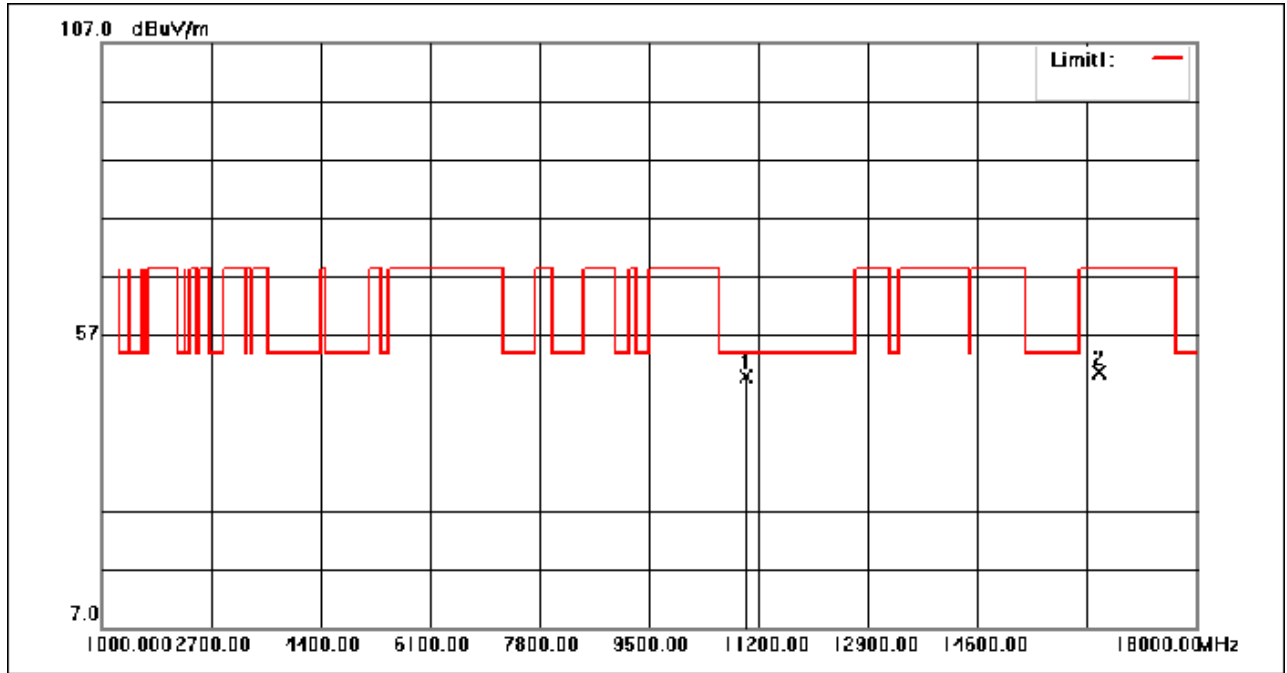
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 03; 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	11000.000	49.24	0.54	49.78	54.00	-4.22	peak
2	16500.000	42.22	8.43	50.65	68.30	-17.65	peak

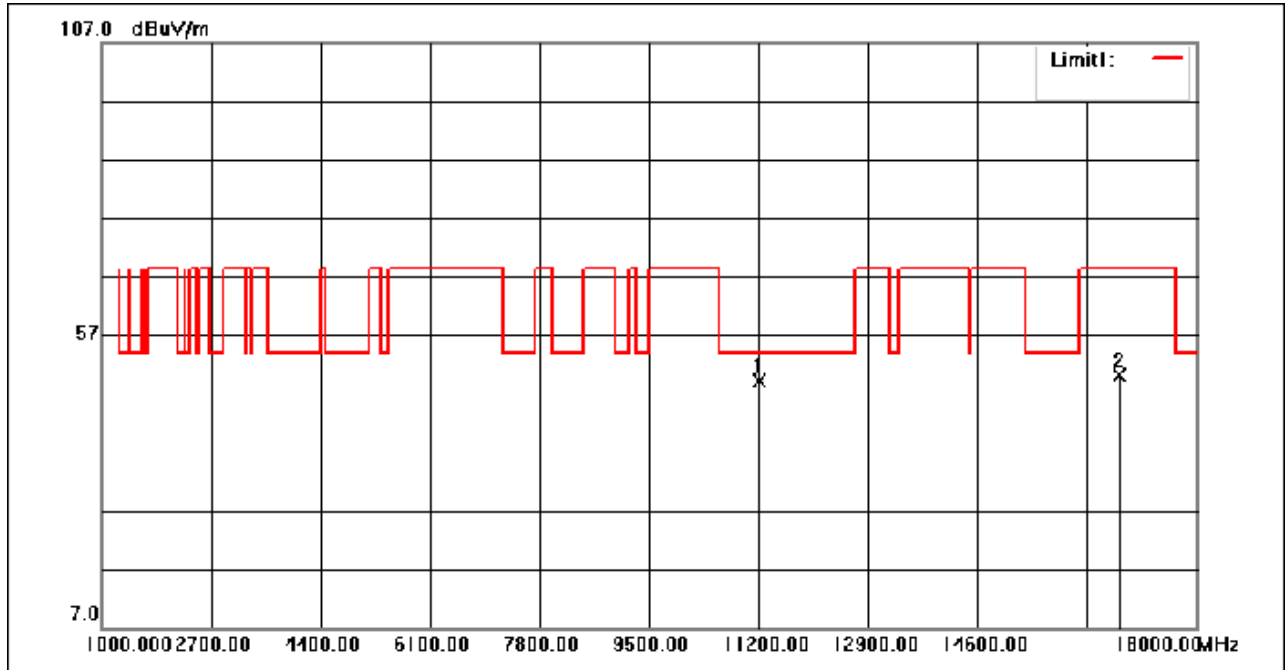


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	48.48	0.71	49.19	54.00	-4.81	peak
2	16800.000	41.29	8.89	50.18	68.30	-18.12	peak

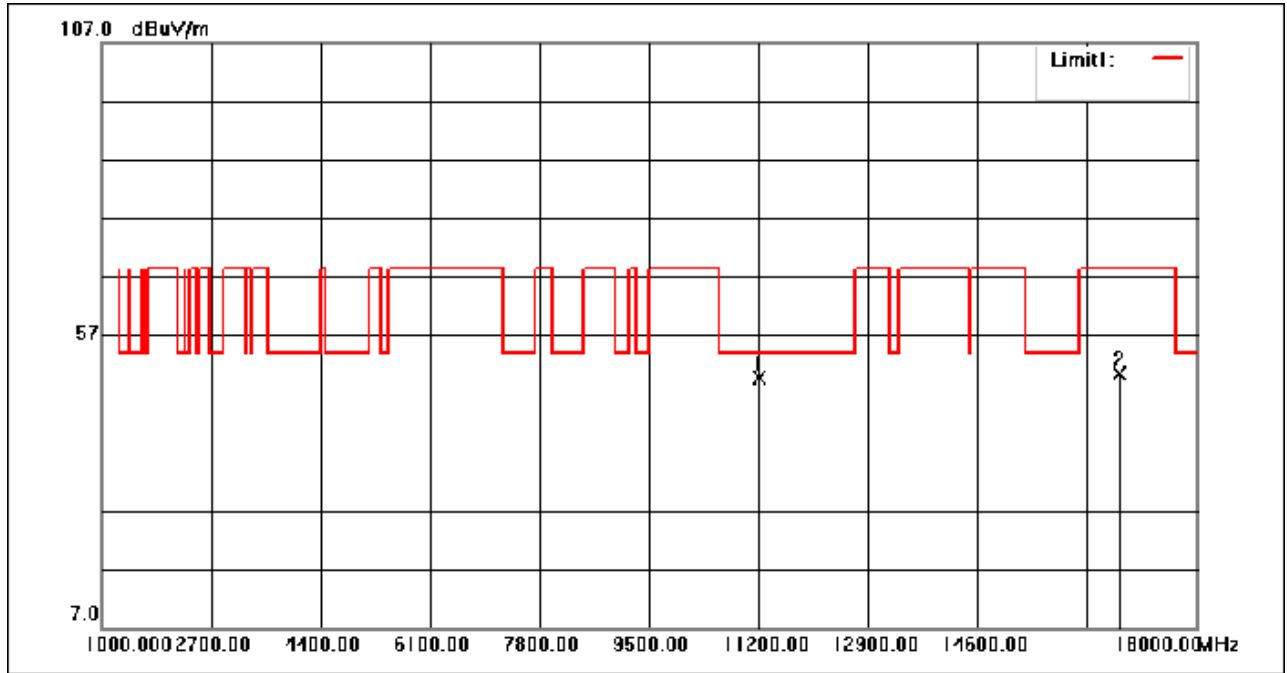


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	48.90	0.71	49.61	54.00	-4.39	peak
2	16800.000	41.45	8.89	50.34	68.30	-17.96	peak



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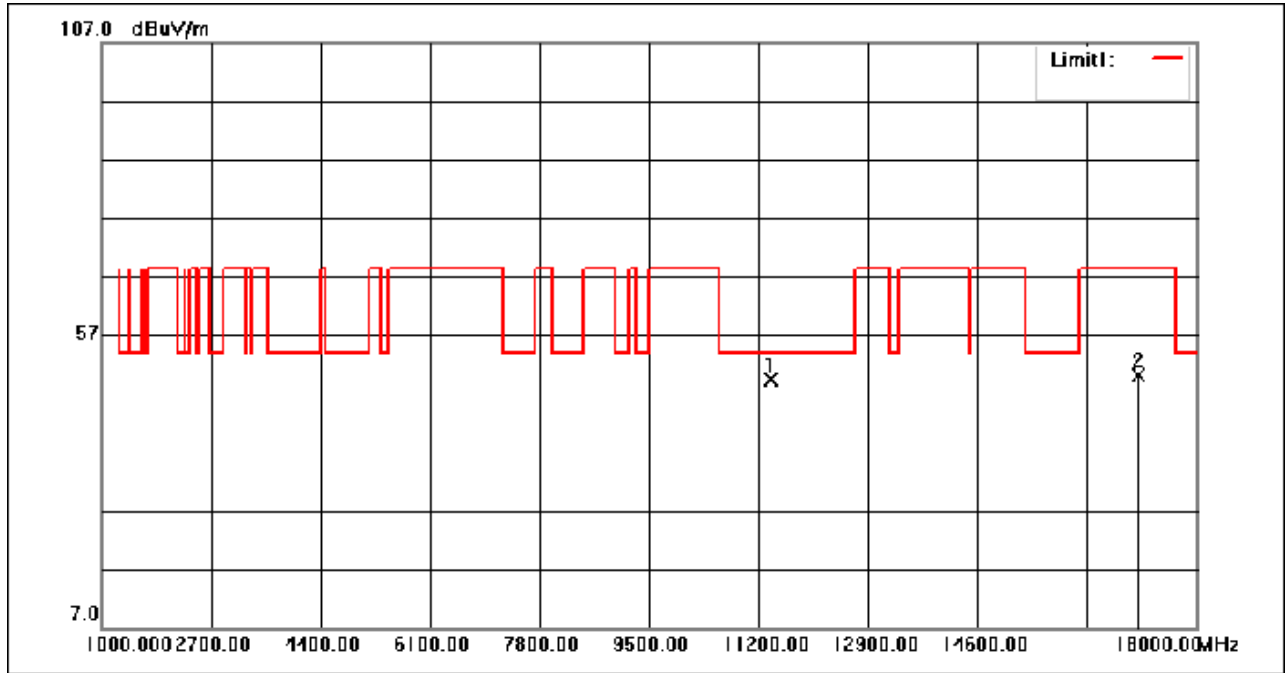


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 93 of 575

Test Mode: 03; 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	11400.000	48.51	0.87	49.38	54.00	-4.62	peak
2	17100.000	41.09	9.13	50.22	68.30	-18.08	peak

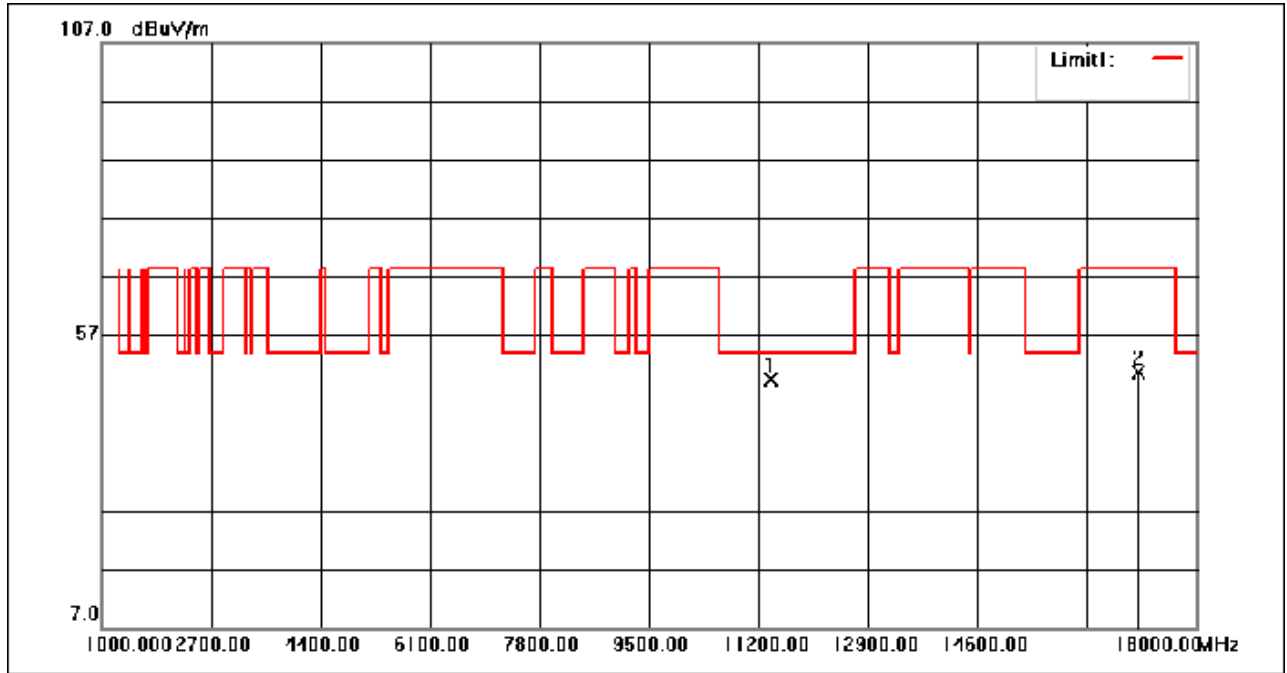


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	48.54	0.87	49.41	54.00	-4.59	peak
2	17100.000	41.42	9.13	50.55	68.30	-17.75	peak



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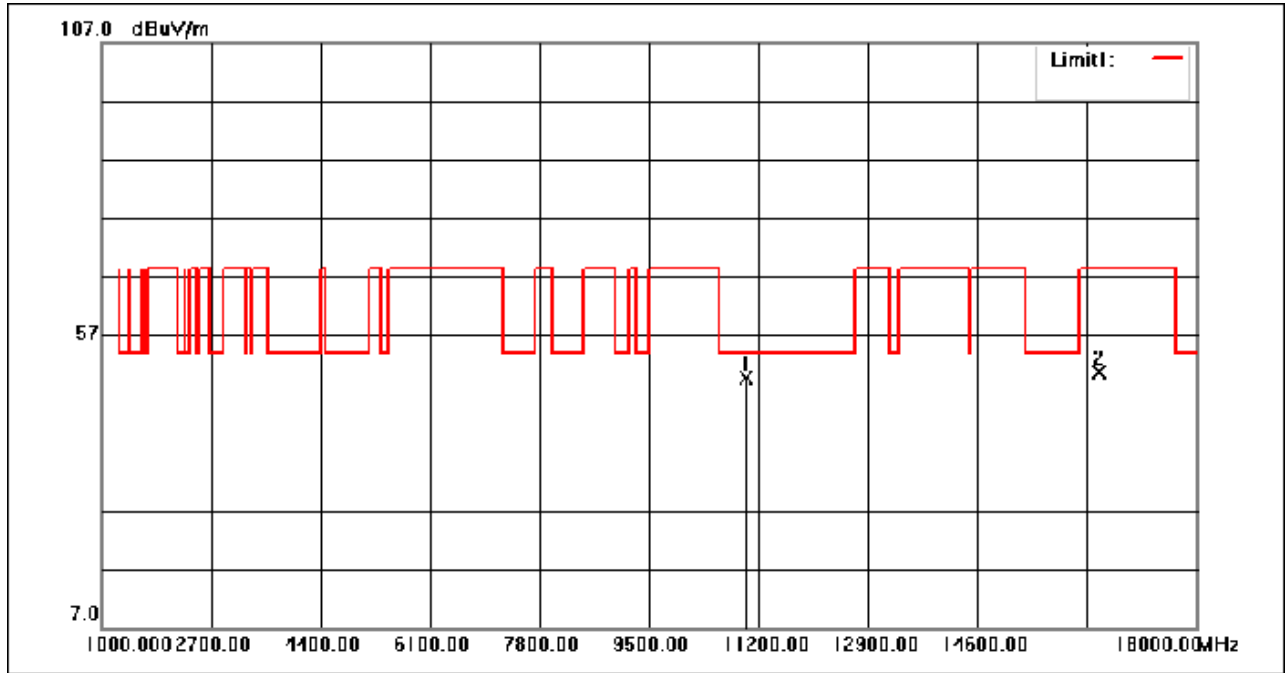
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 95 of 575

Test Mode: 03; 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	11000.000	48.97	0.54	49.51	54.00	-4.49	peak
2	16500.000	42.29	8.43	50.72	68.30	-17.58	peak



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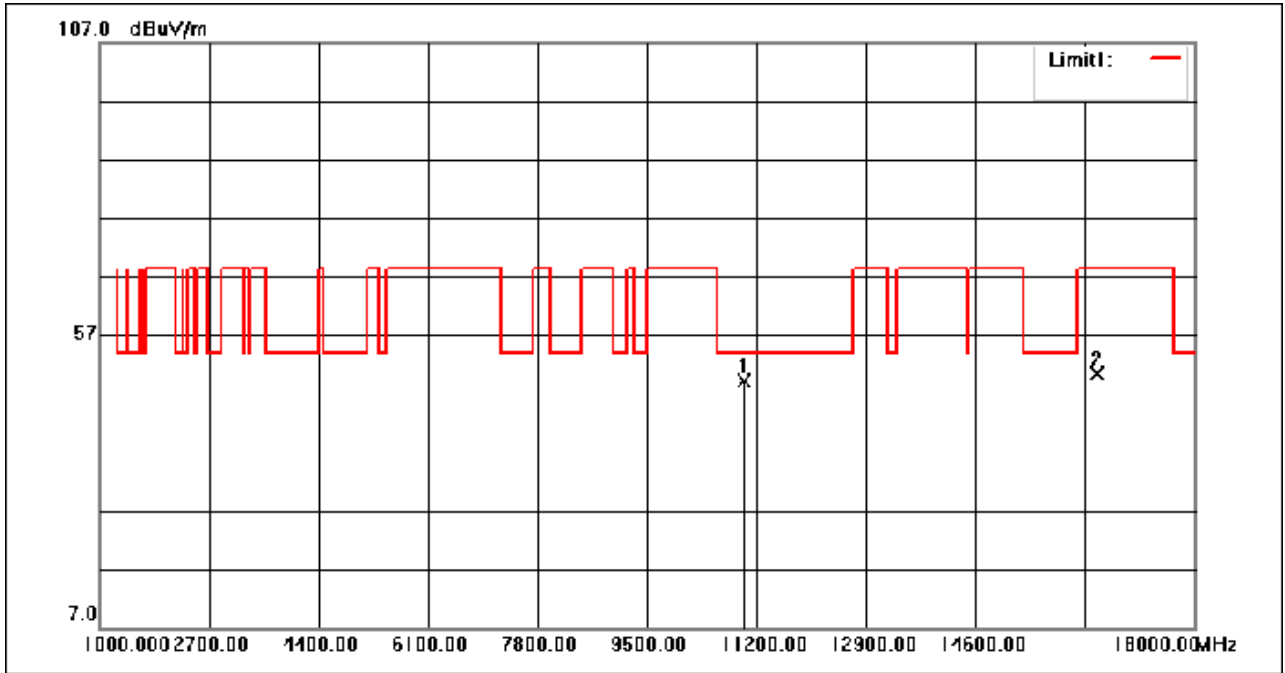
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 96 of 575

Test Mode: 03; 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	11000.000	48.61	0.54	49.15	54.00	-4.85	peak
2	16500.000	42.06	8.43	50.49	68.30	-17.81	peak



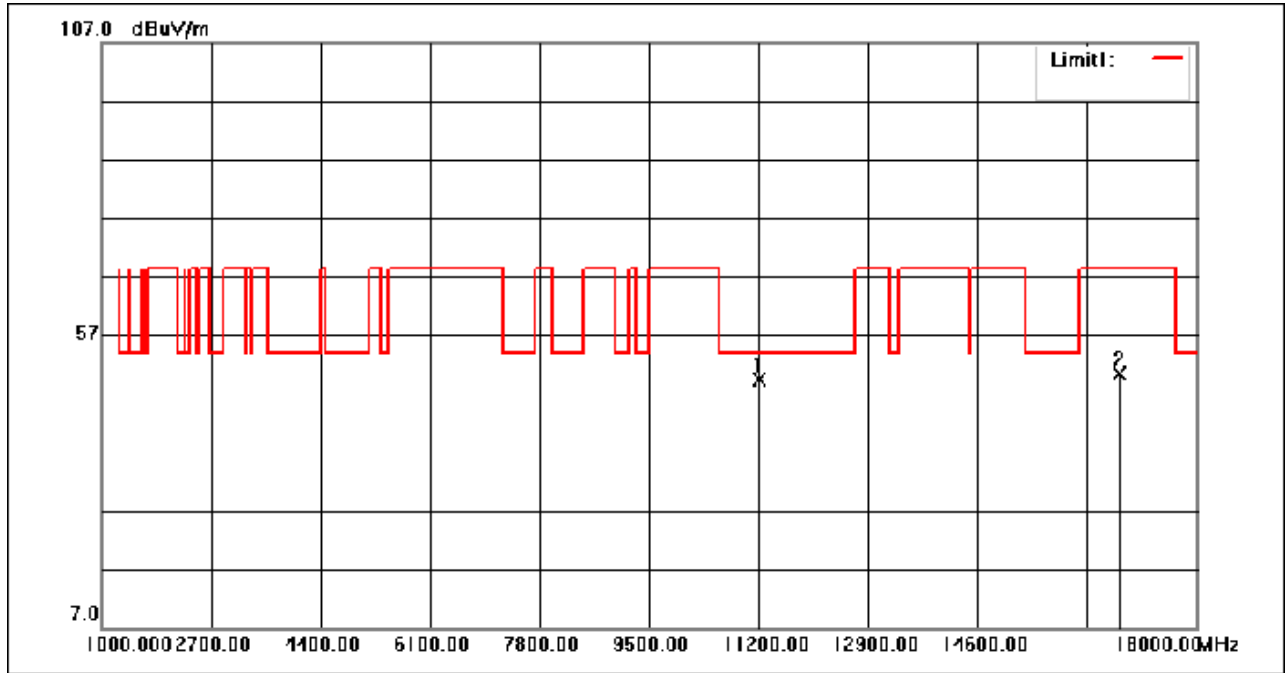
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	48.59	0.71	49.30	54.00	-4.70	peak
2	16800.000	41.49	8.89	50.38	68.30	-17.92	peak

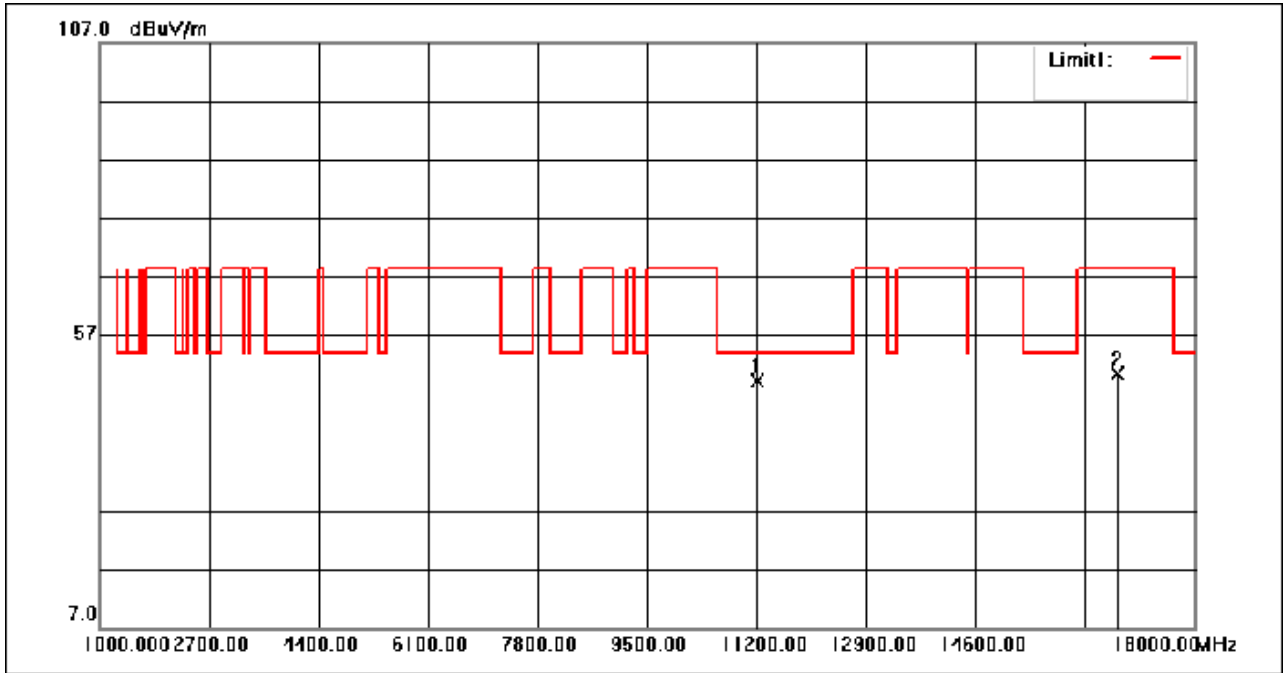


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	48.37	0.71	49.08	54.00	-4.92	peak
2	16800.000	41.52	8.89	50.41	68.30	-17.89	peak



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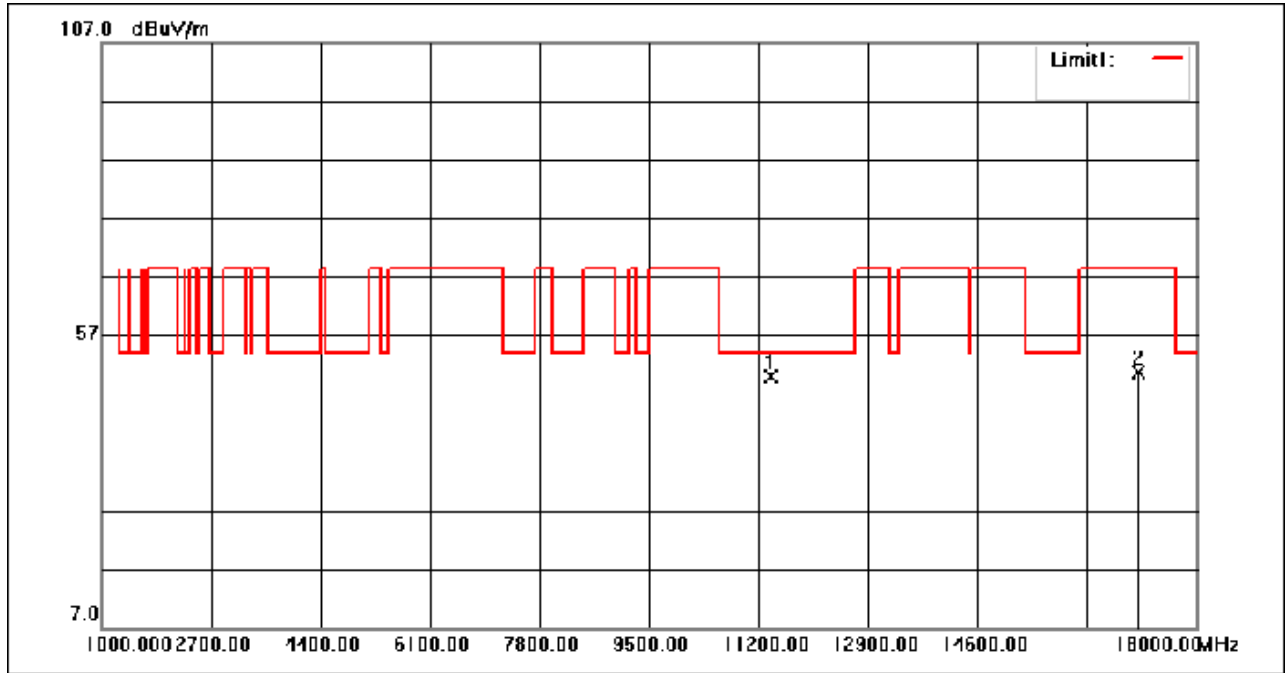
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 99 of 575

Test Mode: 03; 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	11400.000	48.92	0.87	49.79	54.00	-4.21	peak
2	17100.000	41.45	9.13	50.58	68.30	-17.72	peak



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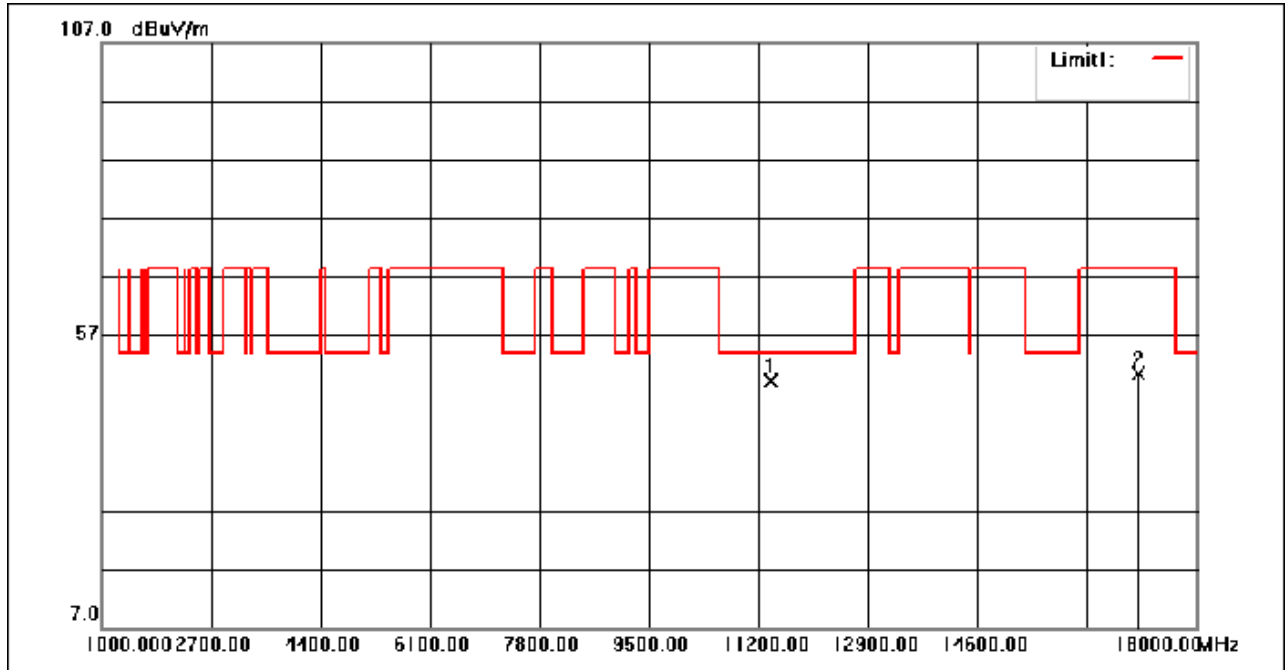
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 03; 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	11400.000	48.21	0.87	49.08	54.00	-4.92	peak
2	17100.000	41.27	9.13	50.40	68.30	-17.90	peak



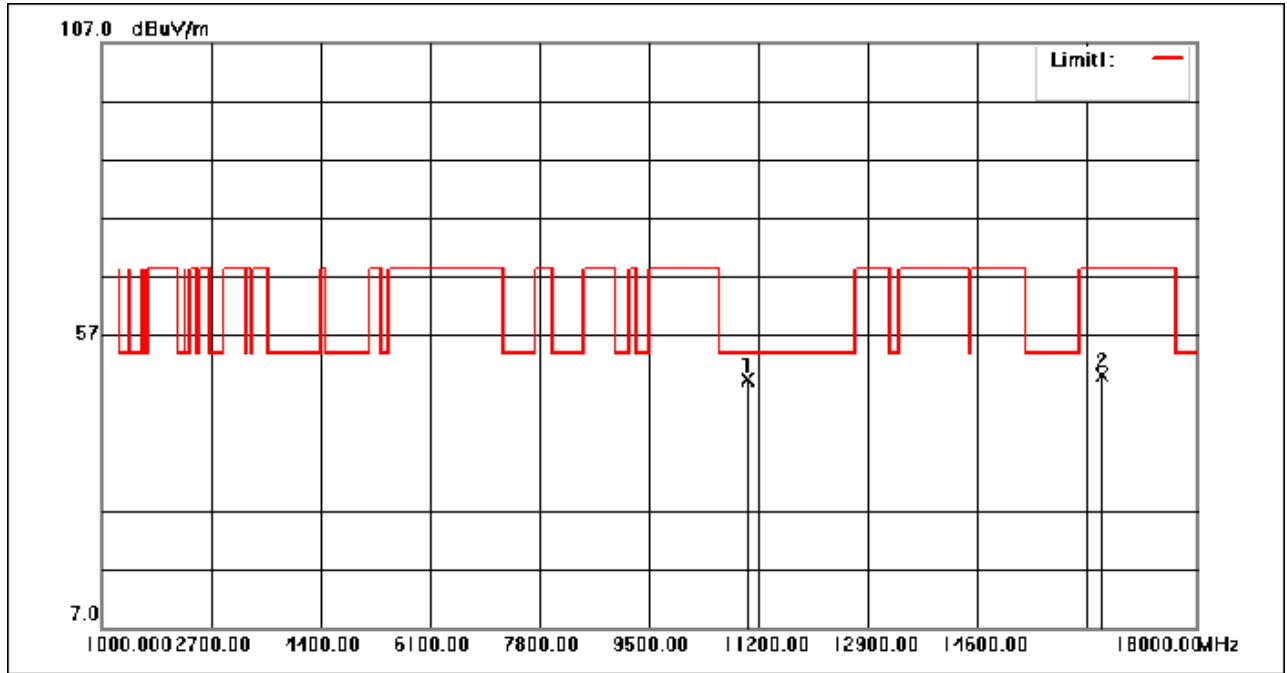
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	48.70	0.56	49.26	54.00	-4.74	peak
2	16530.000	41.56	8.47	50.03	68.30	-18.27	peak



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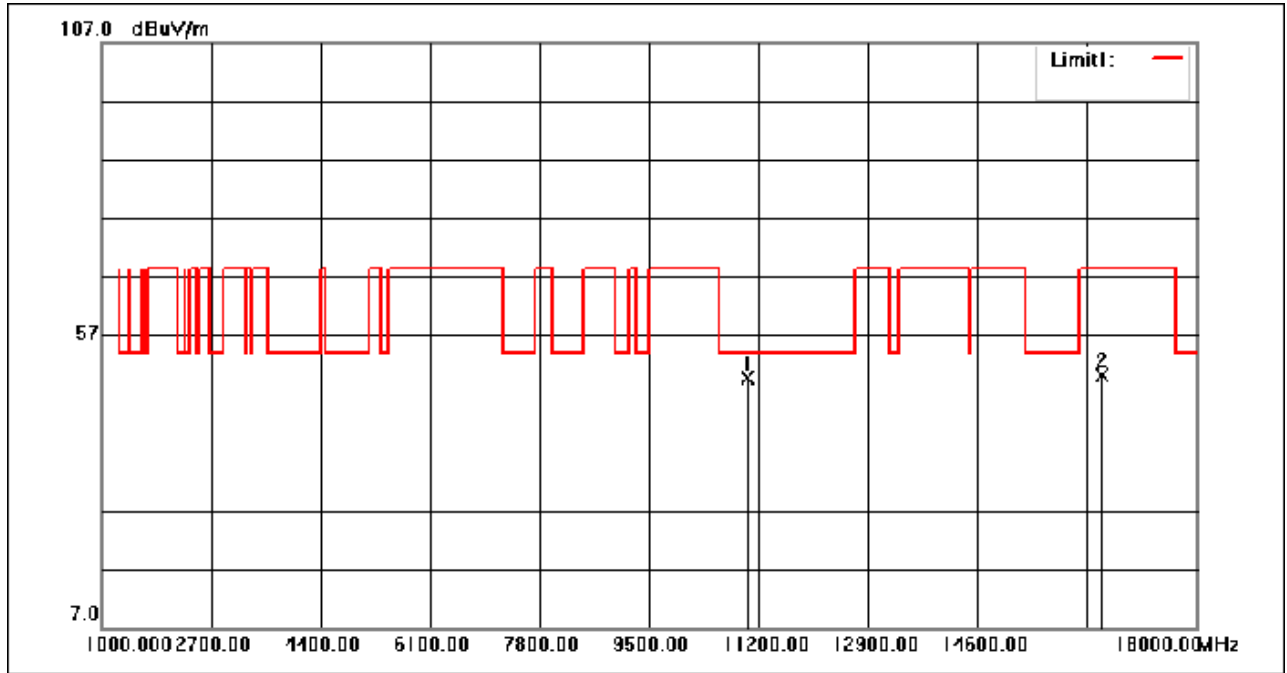
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 03; 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	11020.000	48.98	0.56	49.54	54.00	-4.46	peak
2	16530.000	41.58	8.47	50.05	68.30	-18.25	peak

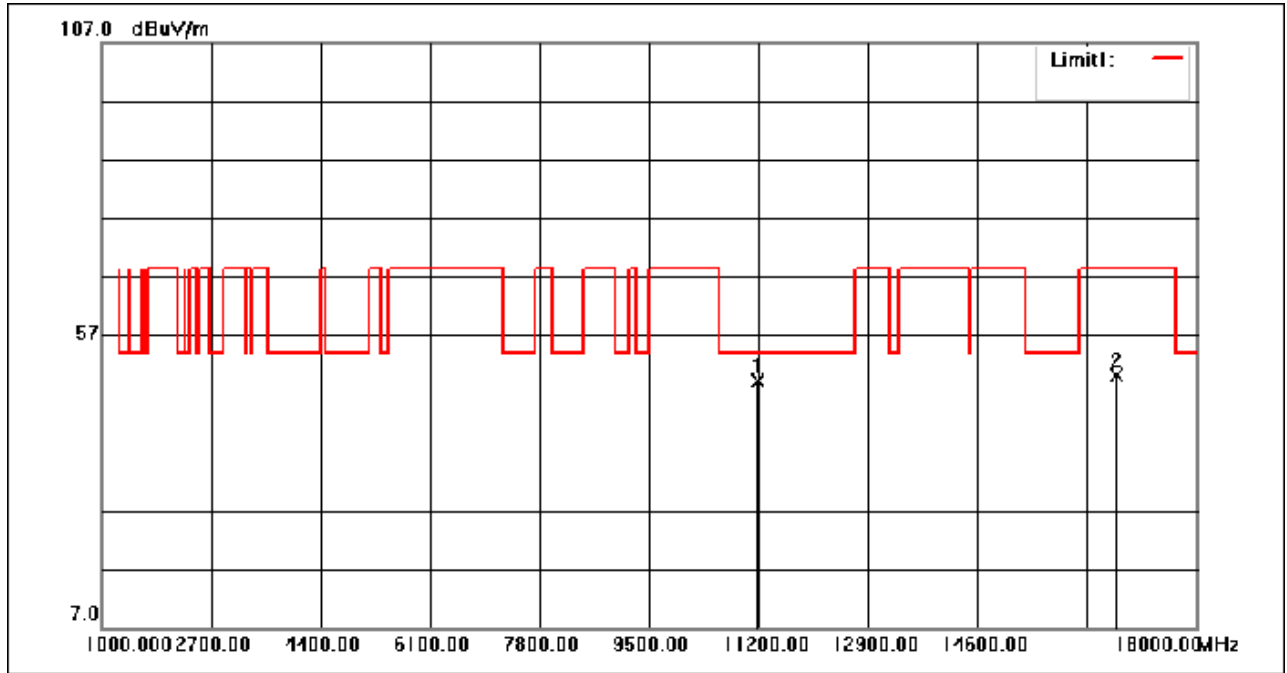


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	48.40	0.69	49.09	54.00	-4.91	peak
2	16770.000	41.22	8.84	50.06	68.30	-18.24	peak

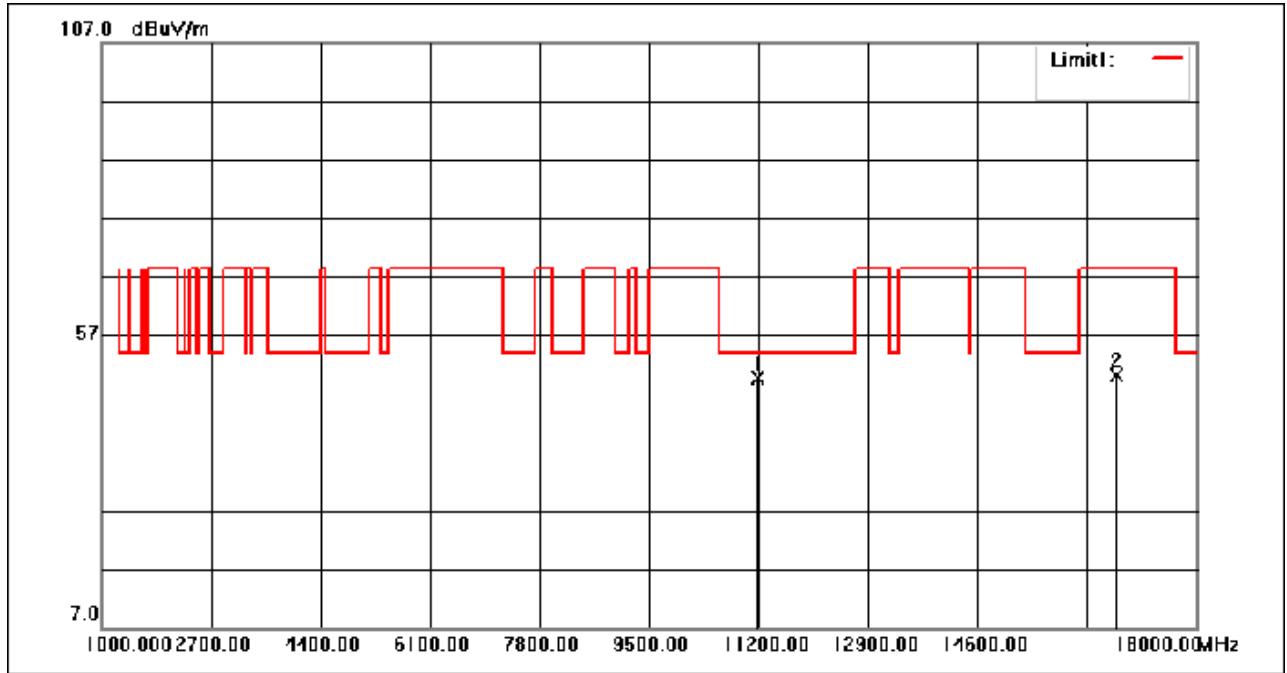


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	48.86	0.69	49.55	54.00	-4.45	peak
2	16770.000	41.17	8.84	50.01	68.30	-18.29	peak



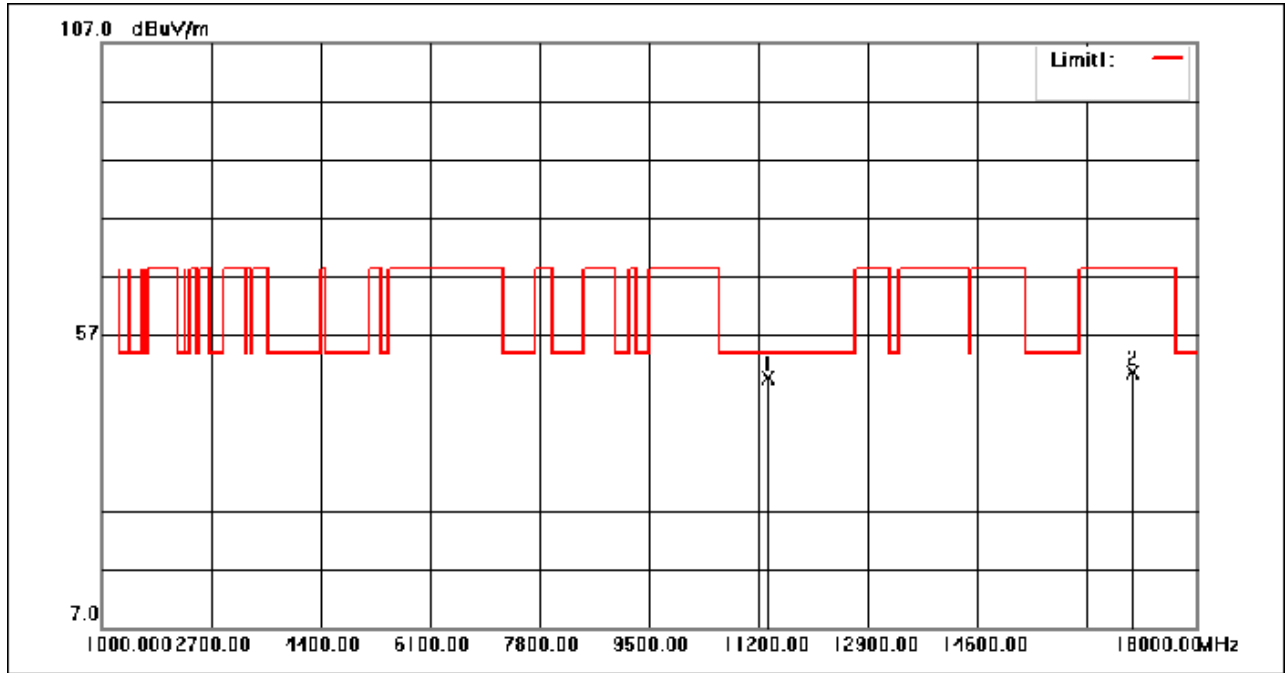
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	48.81	0.82	49.63	54.00	-4.37	peak
2	17010.000	41.56	9.18	50.74	68.30	-17.56	peak

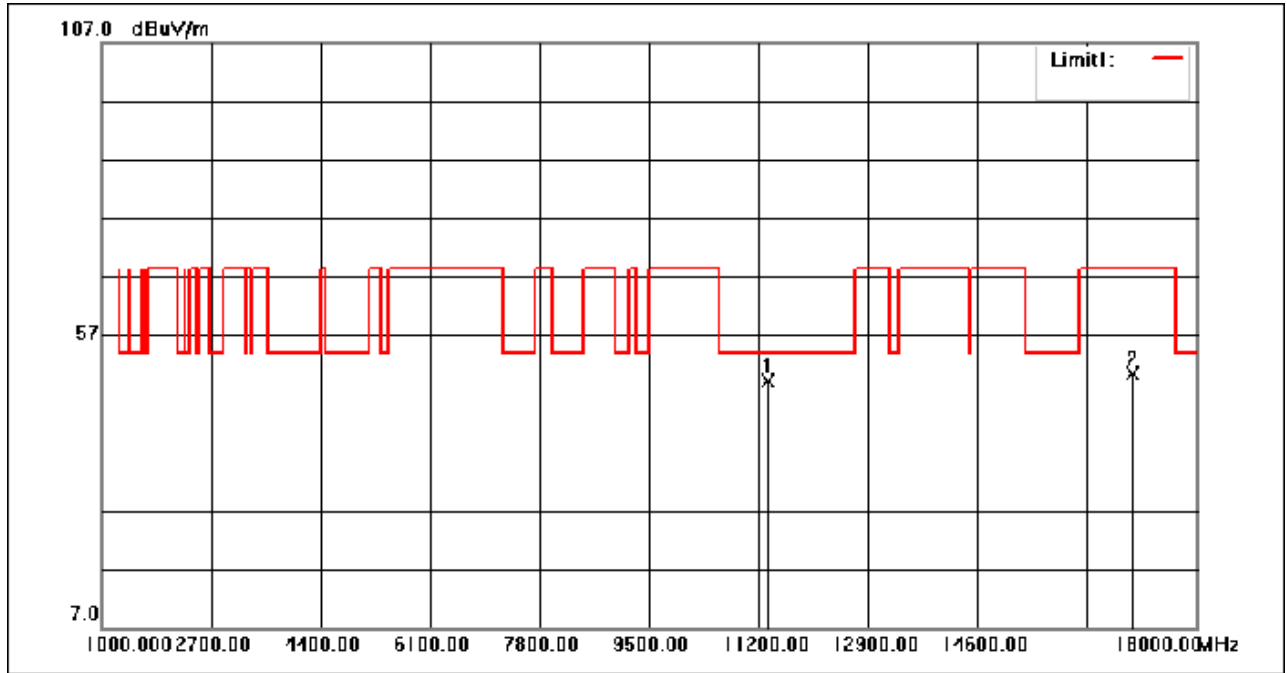


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	48.25	0.82	49.07	54.00	-4.93	peak
2	17010.000	41.27	9.18	50.45	68.30	-17.85	peak



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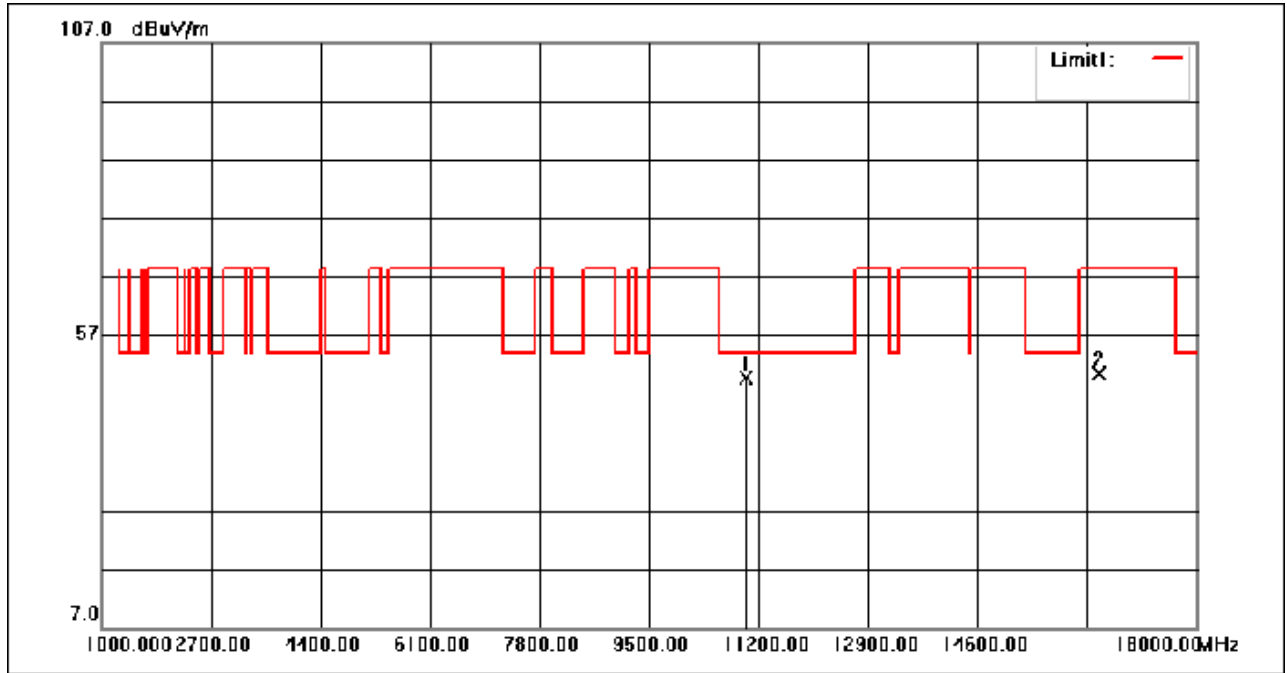
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 107 of 575

Test Mode: 03; 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	11000.000	49.09	0.54	49.63	54.00	-4.37	peak
2	16500.000	41.92	8.43	50.35	68.30	-17.95	peak



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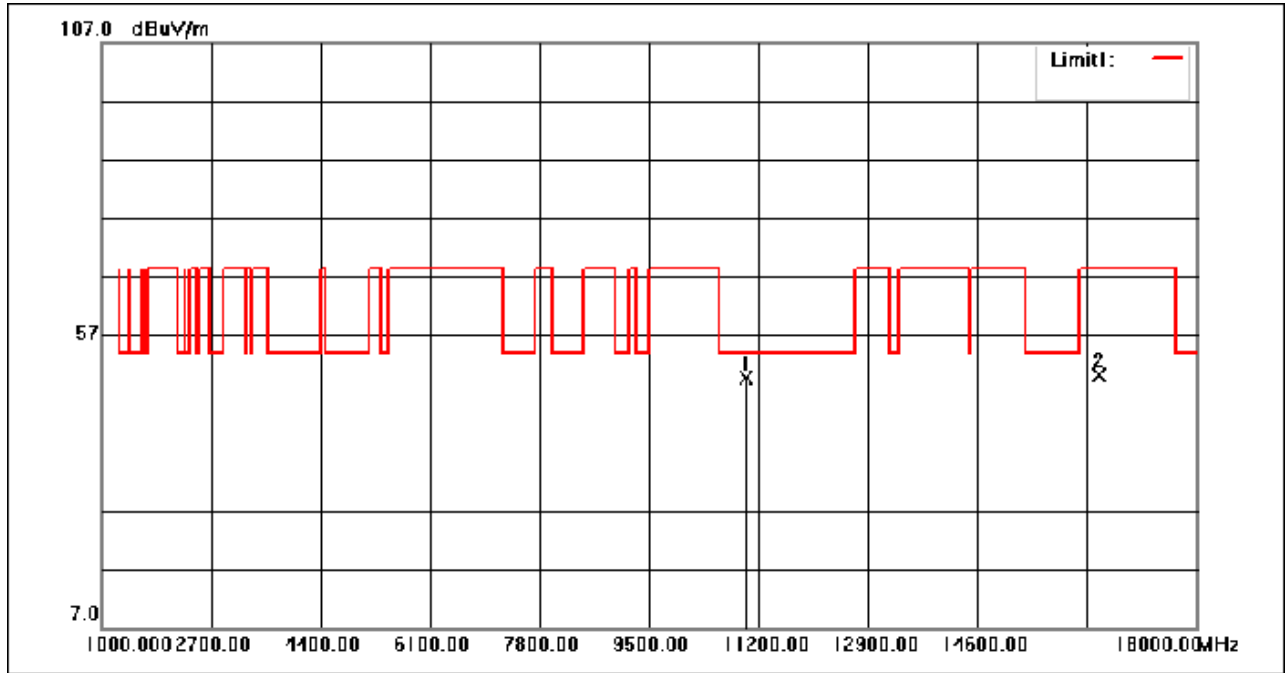
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 108 of 575

Test Mode: 03; 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	11000.000	49.13	0.54	49.67	54.00	-4.33	peak
2	16500.000	41.59	8.43	50.02	68.30	-18.28	peak



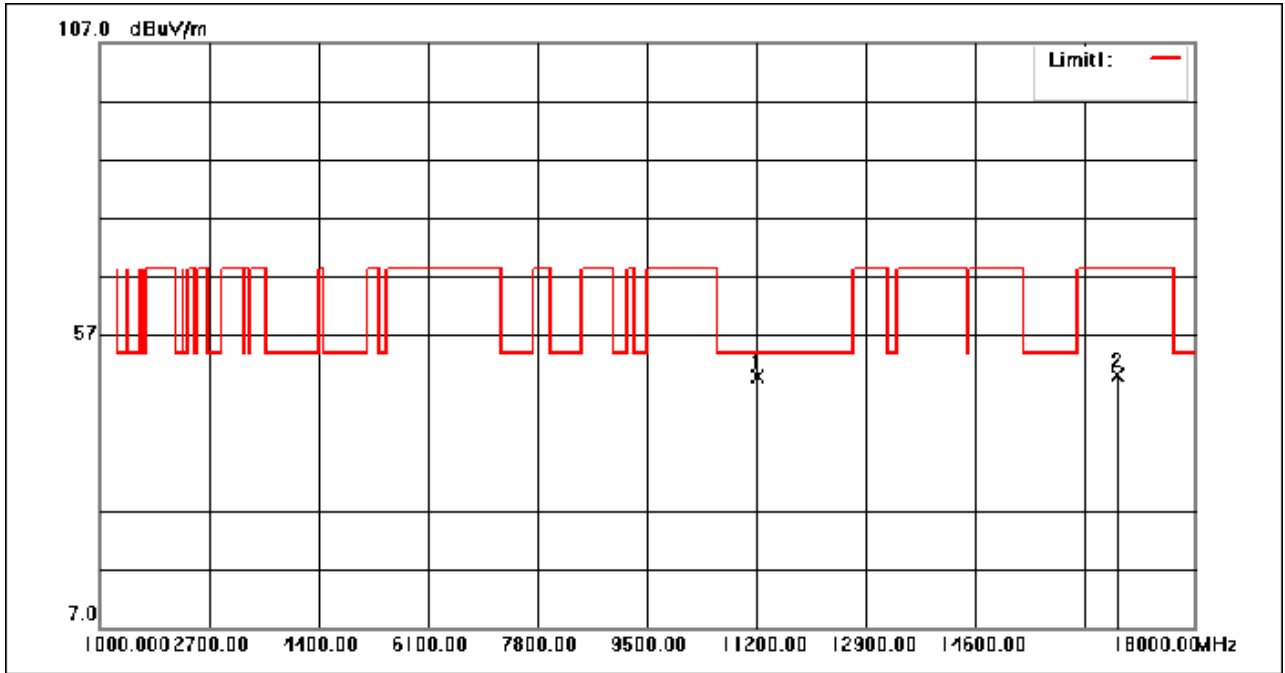
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.11	0.71	49.82	54.00	-4.18	peak
2	16800.000	41.36	8.89	50.25	68.30	-18.05	peak



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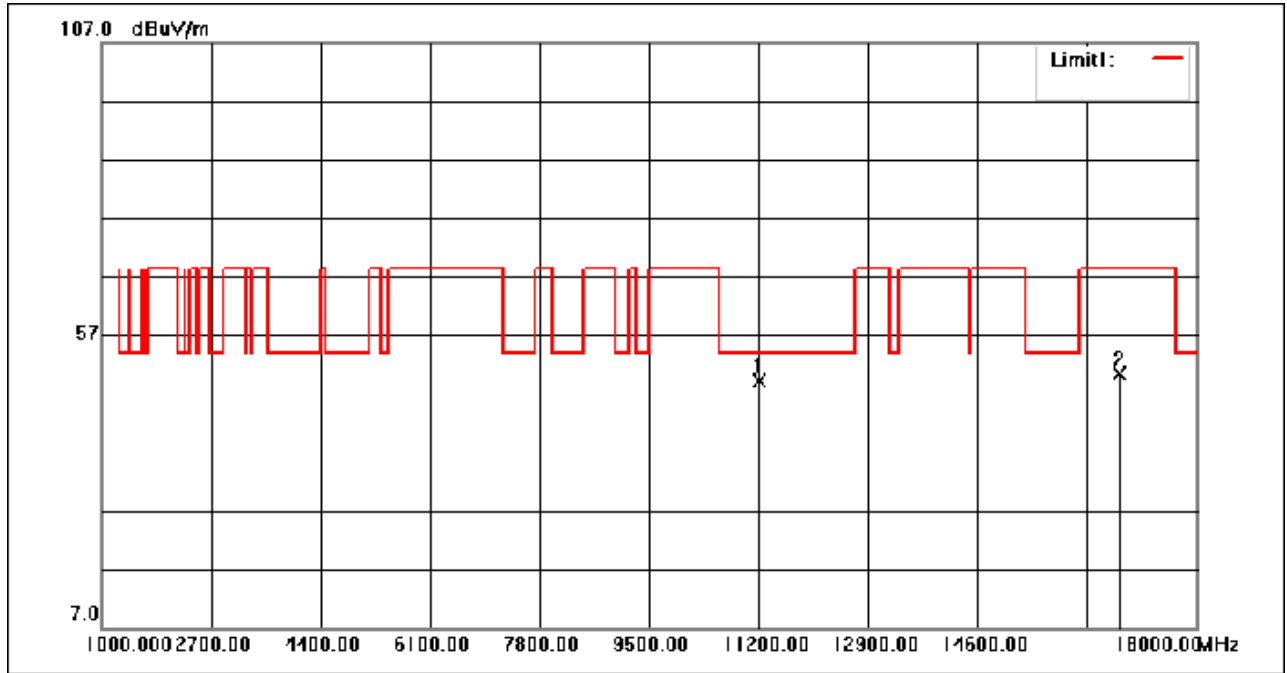
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 110 of 575

Test Mode: 03; 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	11200.000	48.43	0.71	49.14	54.00	-4.86	peak
2	16800.000	41.43	8.89	50.32	68.30	-17.98	peak



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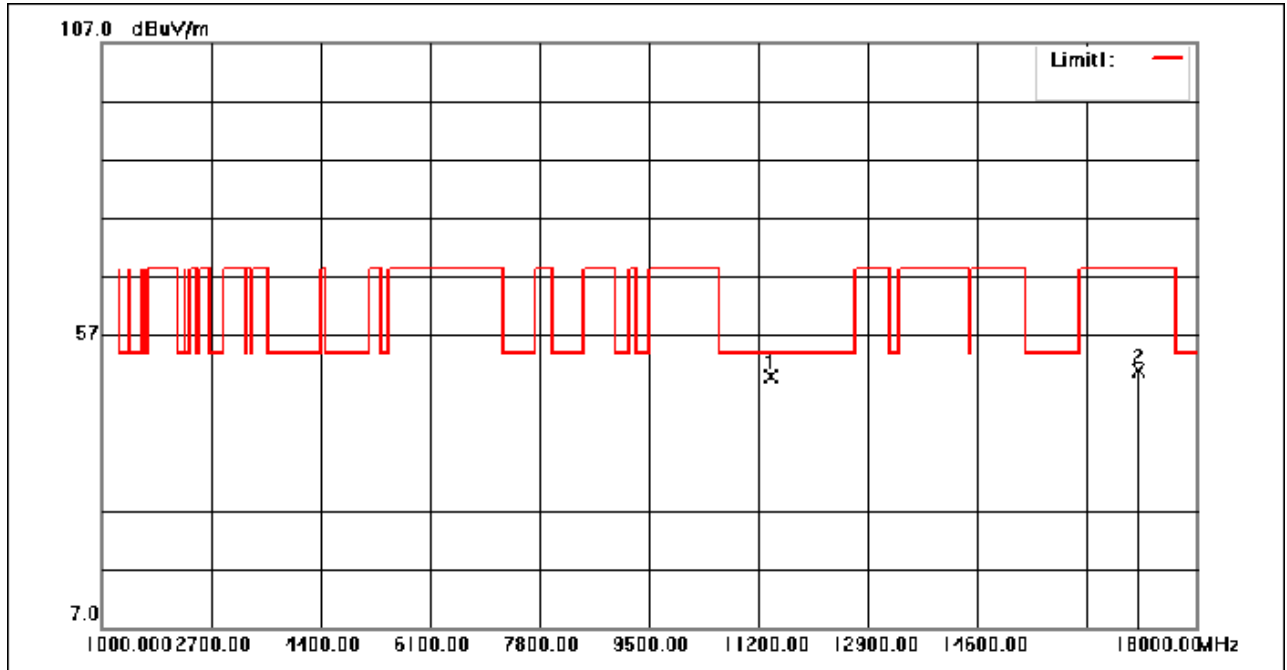
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 03; 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	11400.000	48.92	0.87	49.79	54.00	-4.21	peak
2	17100.000	41.79	9.13	50.92	68.30	-17.38	peak



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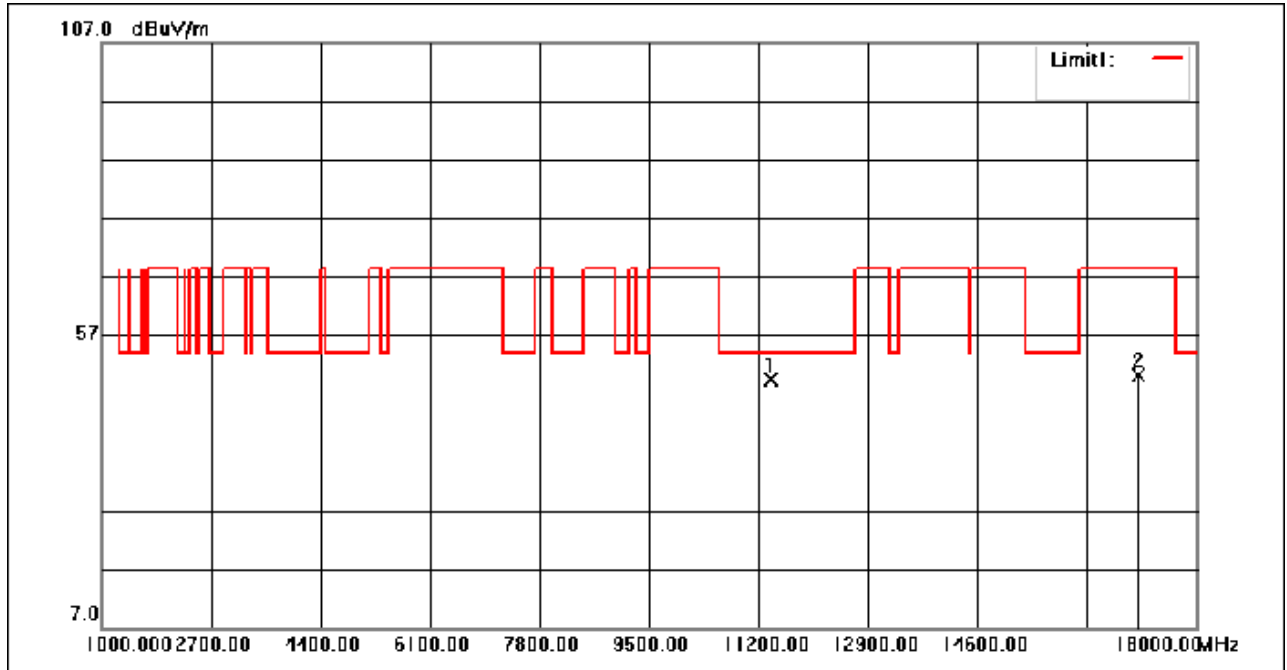
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 03; 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	11400.000	48.54	0.87	49.41	54.00	-4.59	peak
2	17100.000	40.92	9.13	50.05	68.30	-18.25	peak



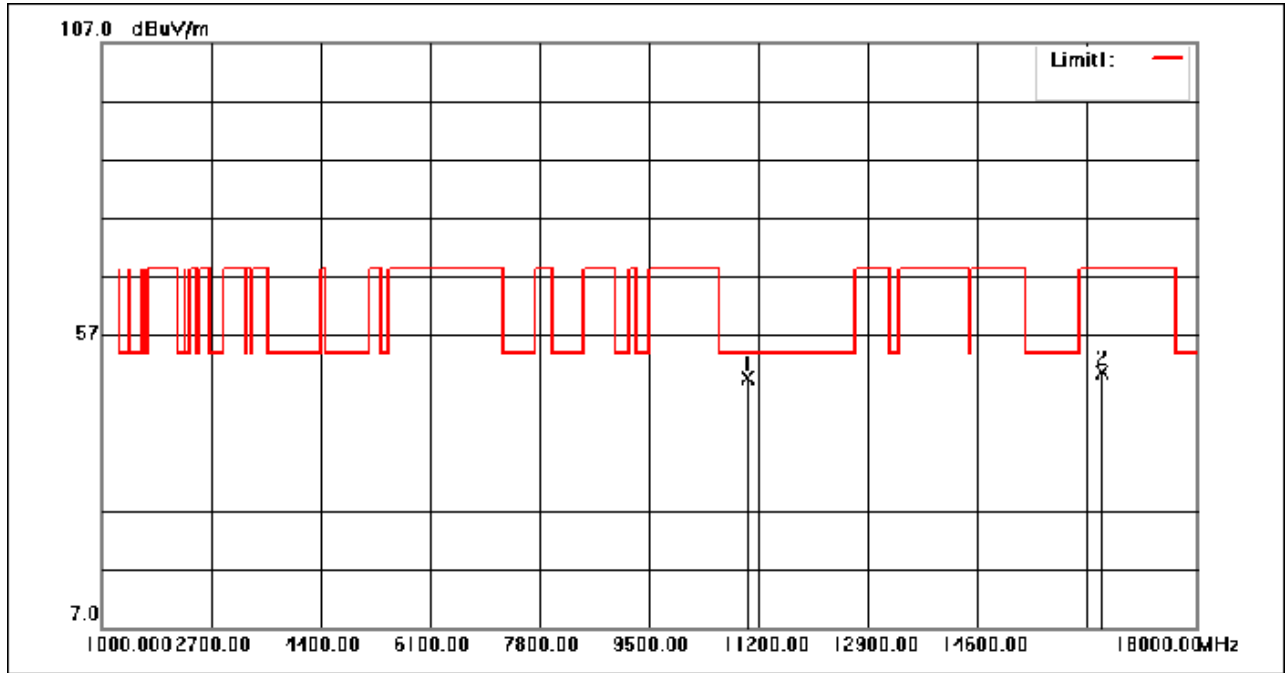
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	49.02	0.56	49.58	54.00	-4.42	peak
2	16530.000	42.20	8.47	50.67	68.30	-17.63	peak



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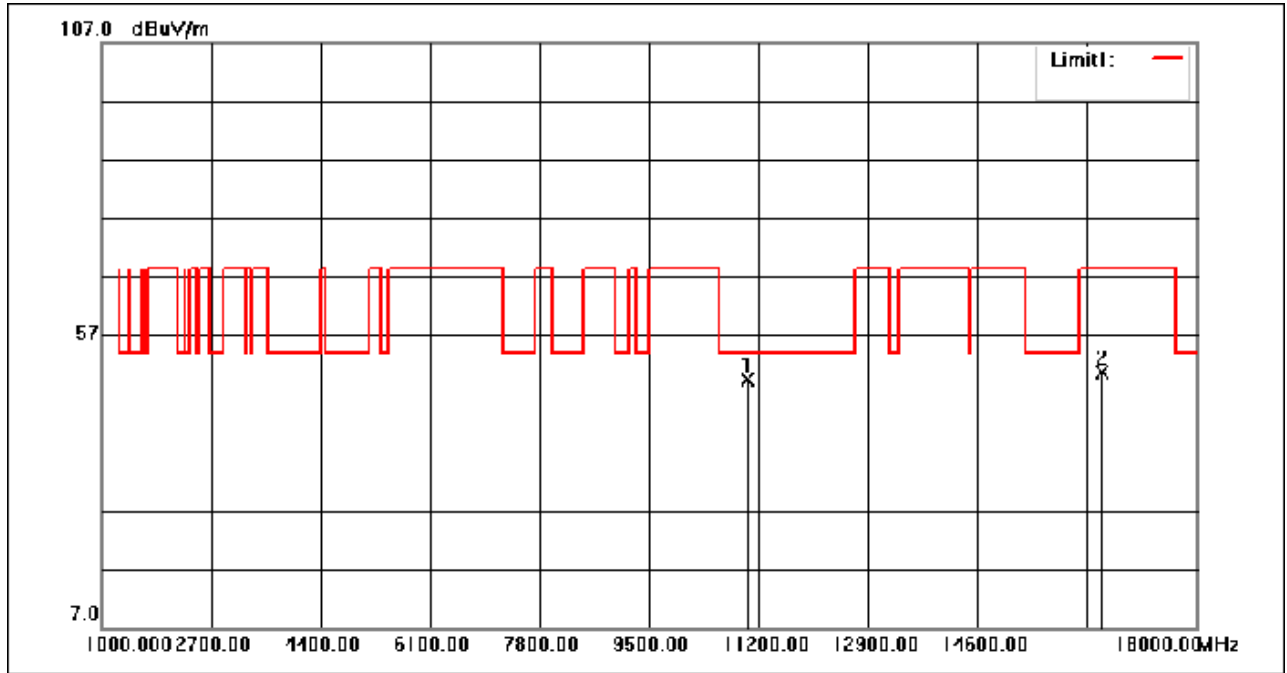
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 114 of 575

Test Mode: 03; 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	11020.000	48.85	0.56	49.41	54.00	-4.59	peak
2	16530.000	42.10	8.47	50.57	68.30	-17.73	peak

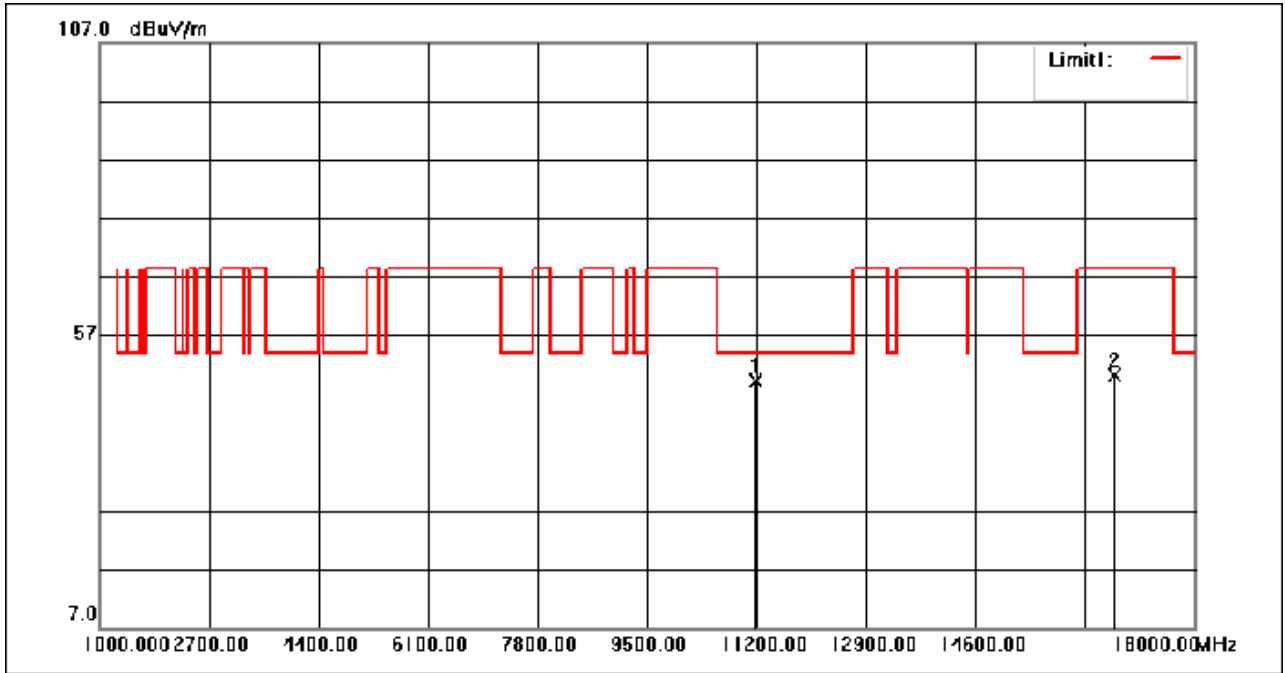


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	48.47	0.69	49.16	54.00	-4.84	peak
2	16770.000	41.25	8.84	50.09	68.30	-18.21	peak

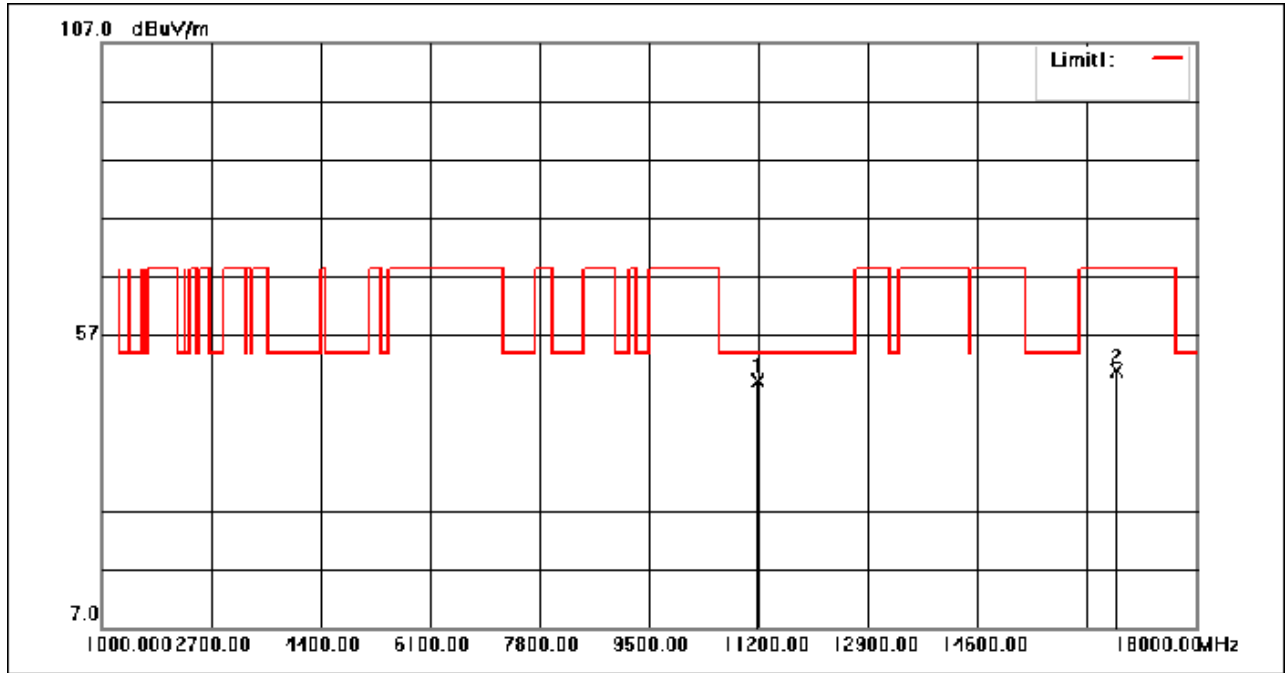


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	48.48	0.69	49.17	54.00	-4.83	peak
2	16770.000	42.07	8.84	50.91	68.30	-17.39	peak



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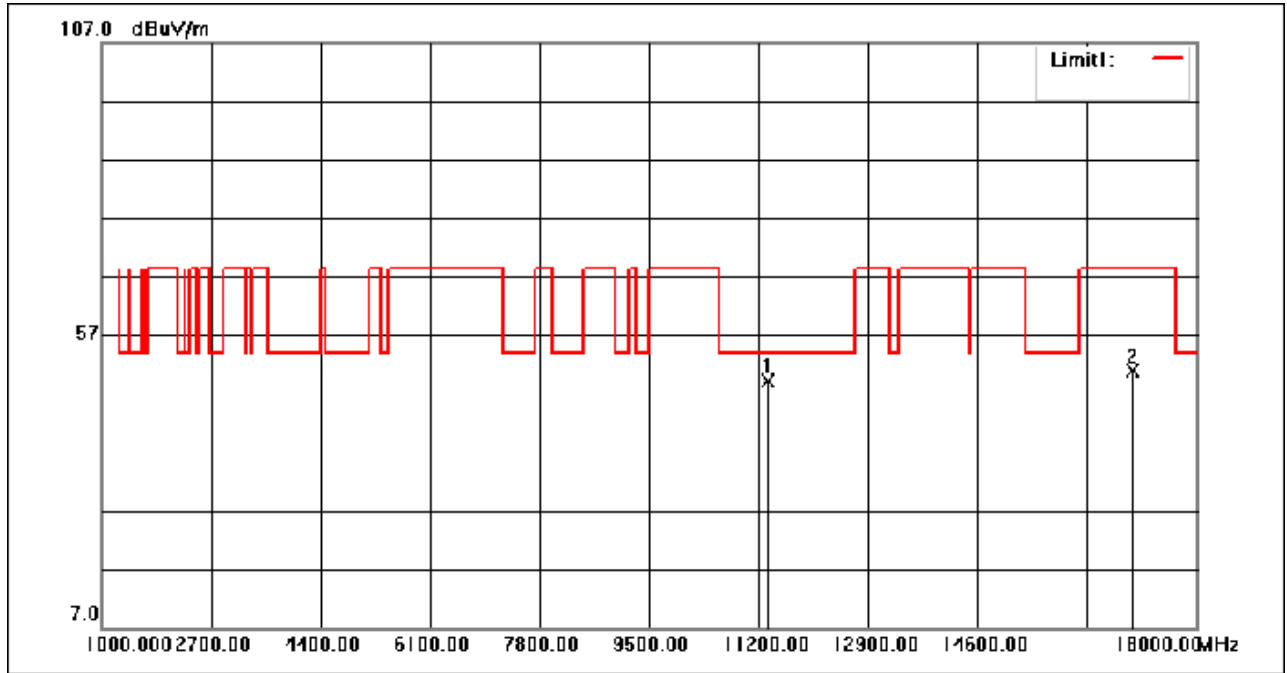


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 117 of 575

Test Mode: 03; 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	11340.000	48.35	0.82	49.17	54.00	-4.83	peak
2	17010.000	41.72	9.18	50.90	68.30	-17.40	peak

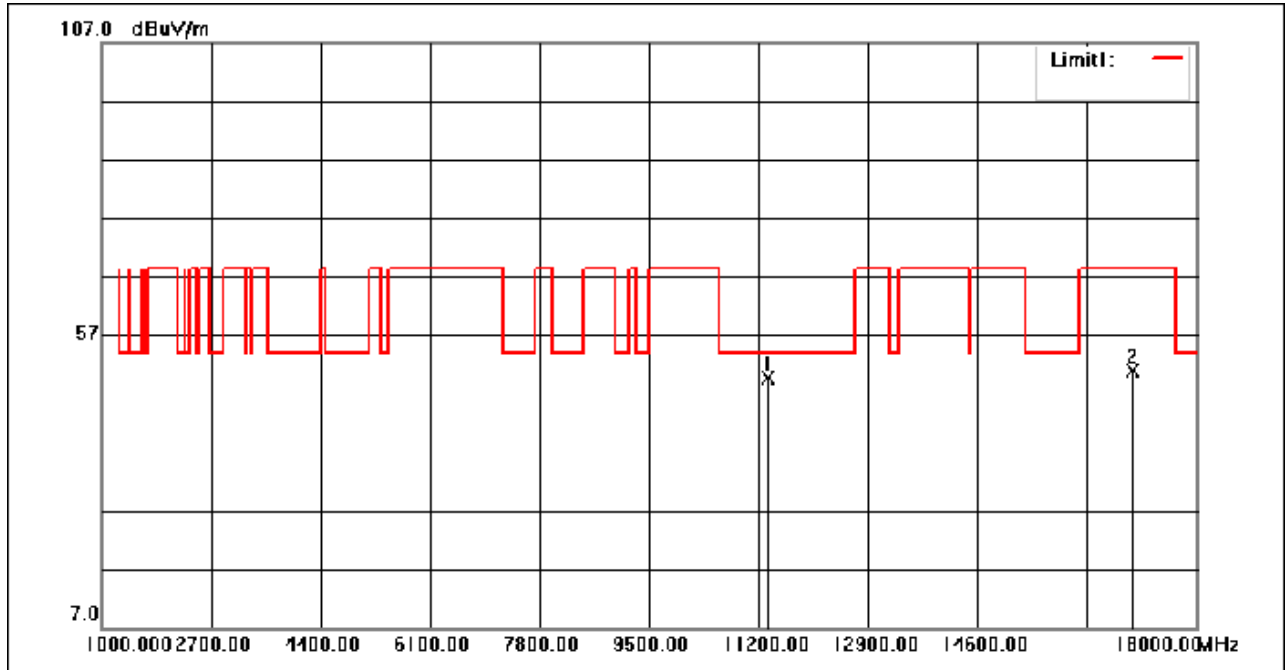


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	48.72	0.82	49.54	54.00	-4.46	peak
2	17010.000	41.80	9.18	50.98	68.30	-17.32	peak

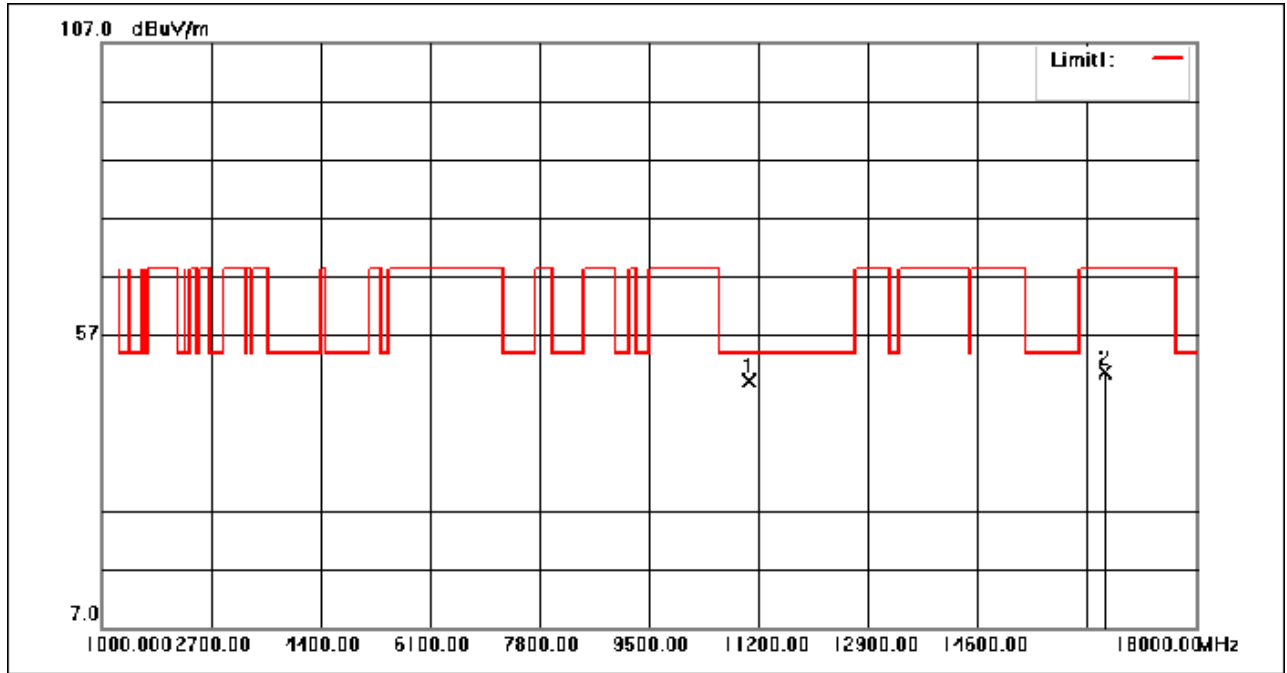


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	48.58	0.59	49.17	54.00	-4.83	peak
2	16590.000	42.11	8.56	50.67	68.30	-17.63	peak



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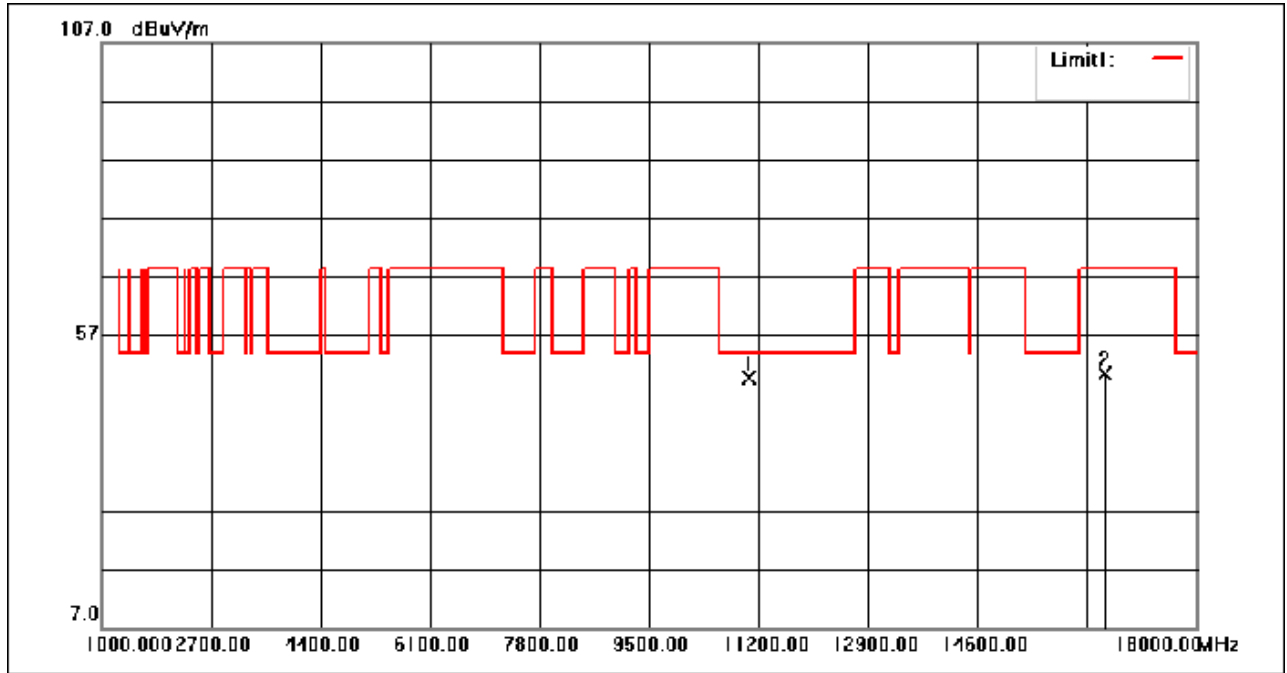
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 120 of 575

Test Mode: 03; 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	11060.000	49.04	0.59	49.63	54.00	-4.37	peak
2	16590.000	41.83	8.56	50.39	68.30	-17.91	peak



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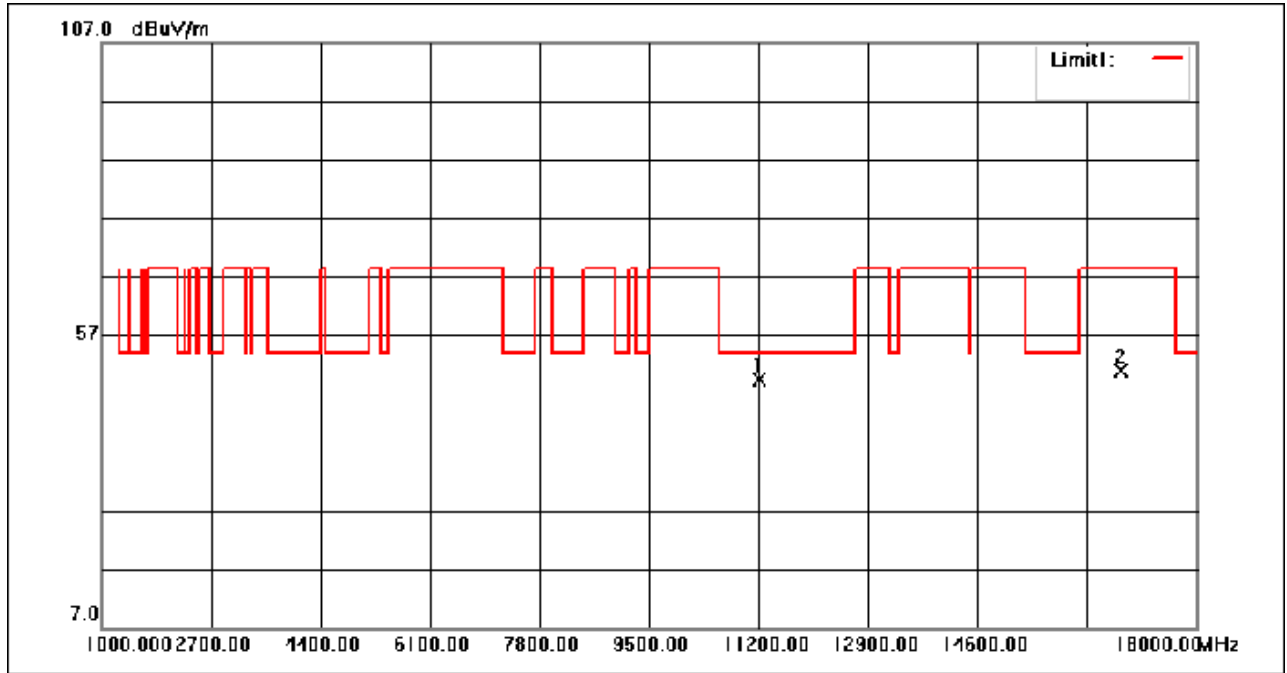


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 121 of 575

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	48.71	0.72	49.43	54.00	-4.57	peak
2	16830.000	41.98	8.93	50.91	68.30	-17.39	peak

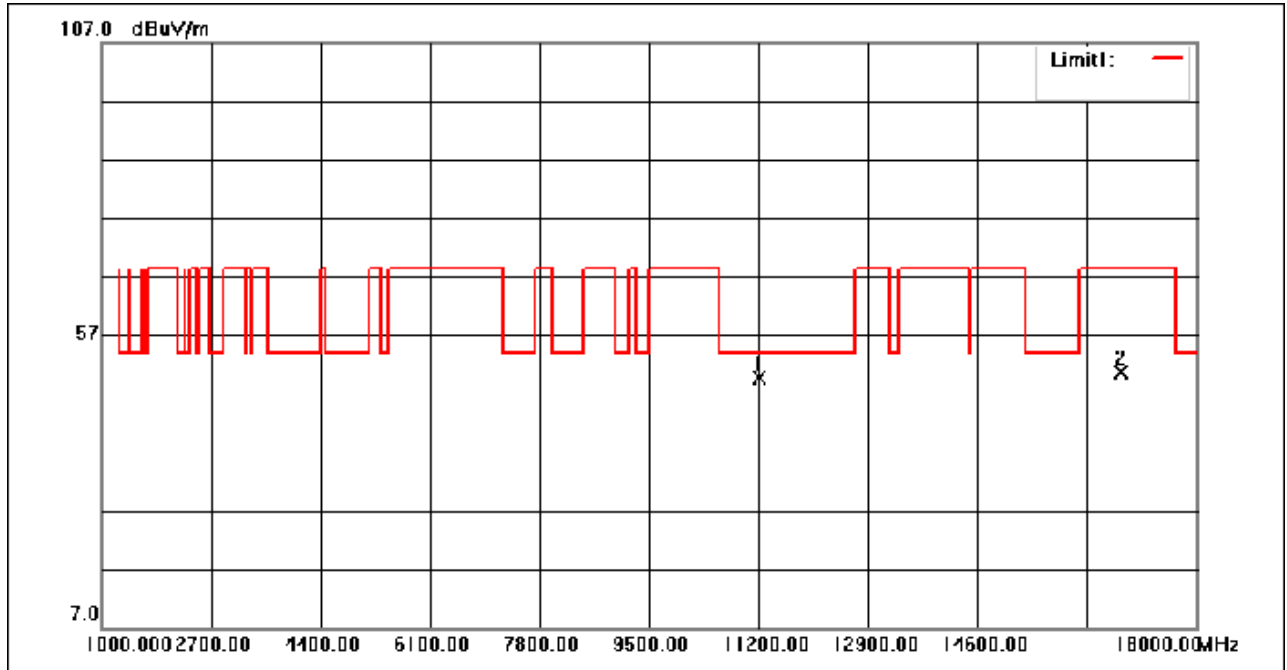


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	48.96	0.72	49.68	54.00	-4.32	peak
2	16830.000	41.76	8.93	50.69	68.30	-17.61	peak



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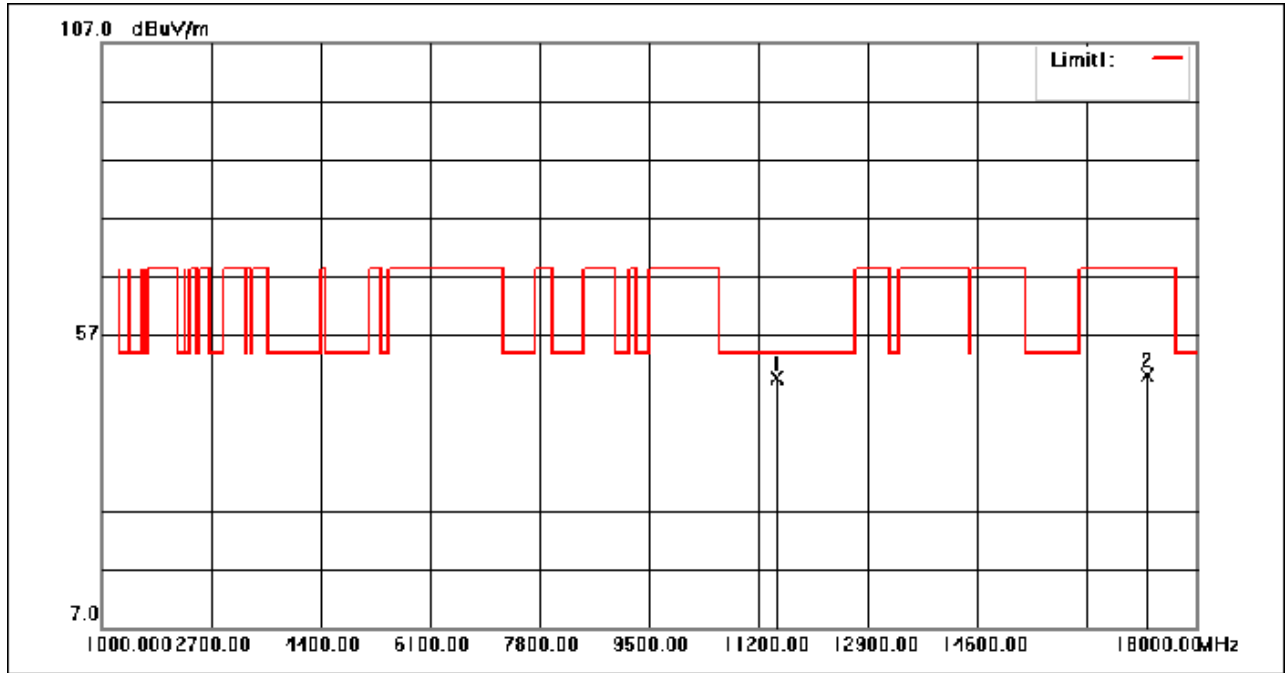
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 123 of 575

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.66	0.94	49.60	54.00	-4.40	peak
2	17235.000	41.13	9.05	50.18	68.30	-18.12	peak



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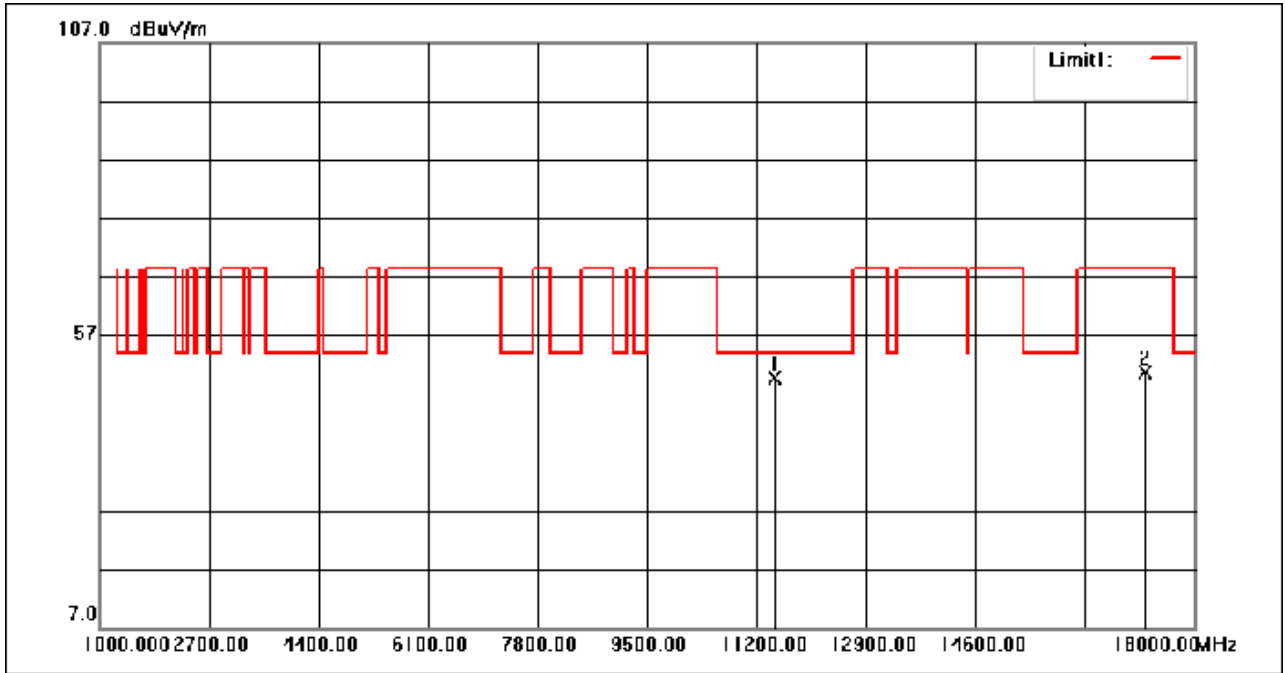
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 124 of 575

Test Mode: 04; 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	41.49	9.05	50.54	68.30	-17.76	peak



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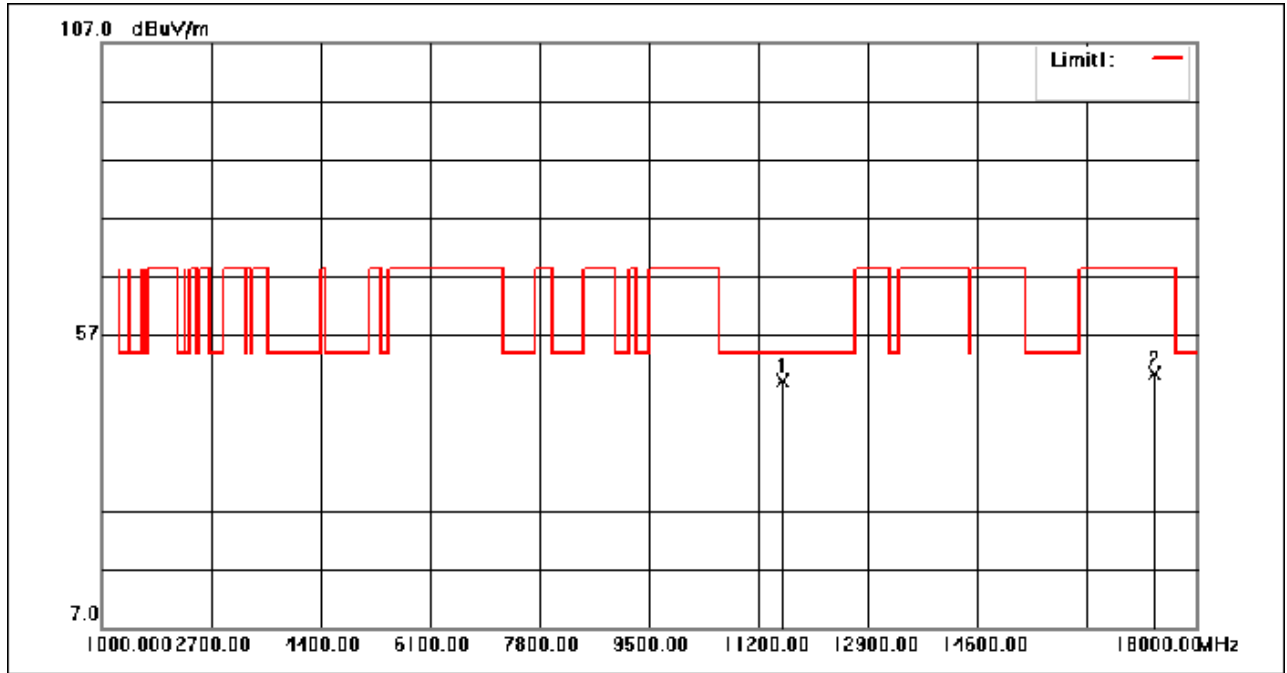


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 125 of 575

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.07	1.18	49.25	54.00	-4.75	peak
2	17355.000	41.48	8.98	50.46	68.30	-17.84	peak



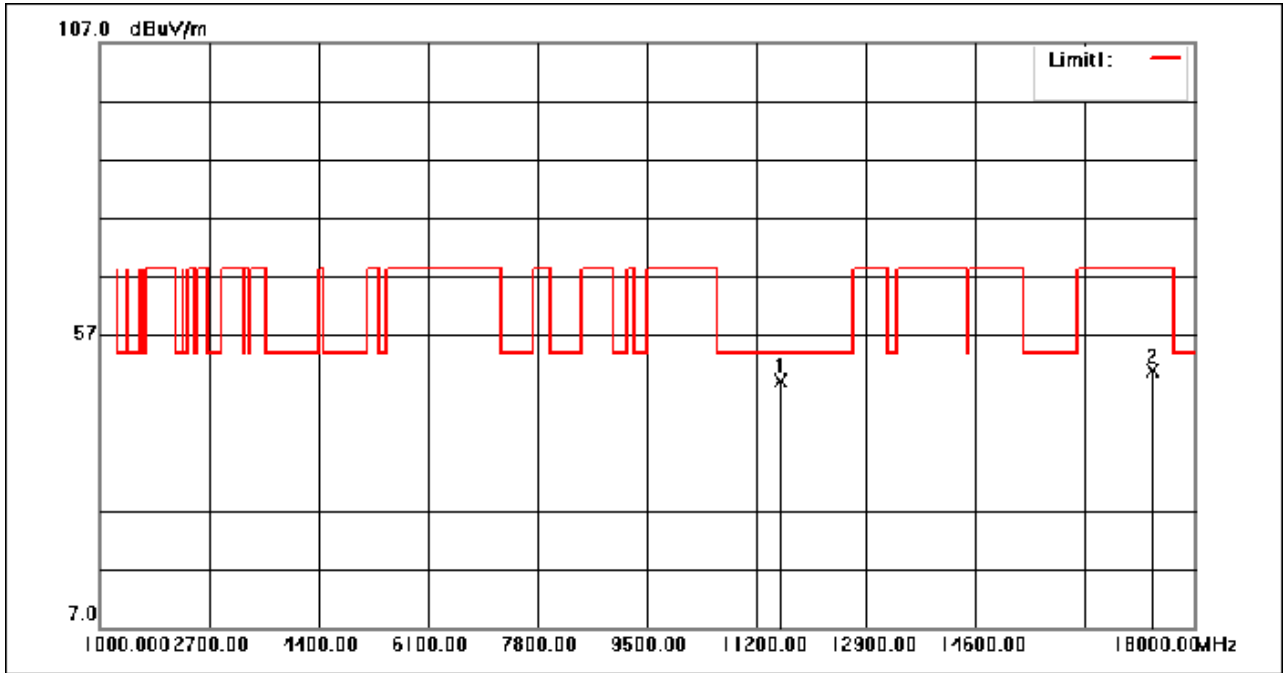
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	47.86	1.18	49.04	54.00	-4.96	peak
2	17355.000	41.79	8.98	50.77	68.30	-17.53	peak



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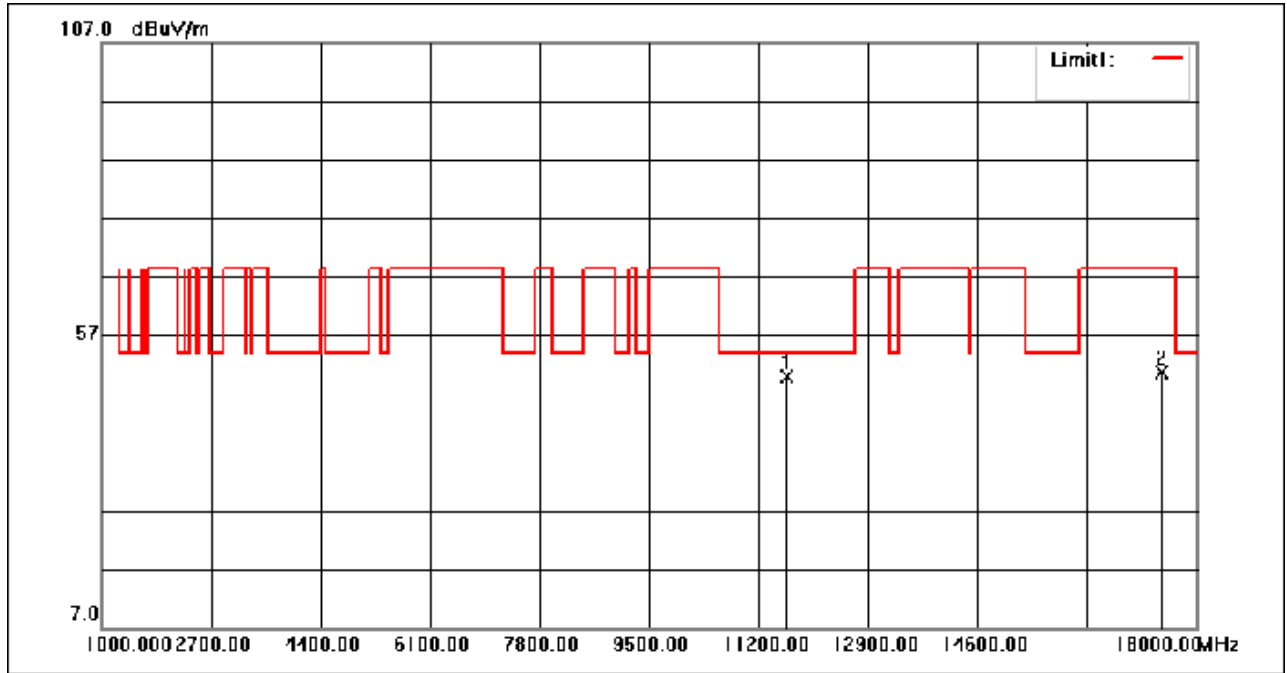
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 04; 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	48.47	1.45	49.92	54.00	-4.08	peak
2	17475.000	41.79	8.90	50.69	68.30	-17.61	peak



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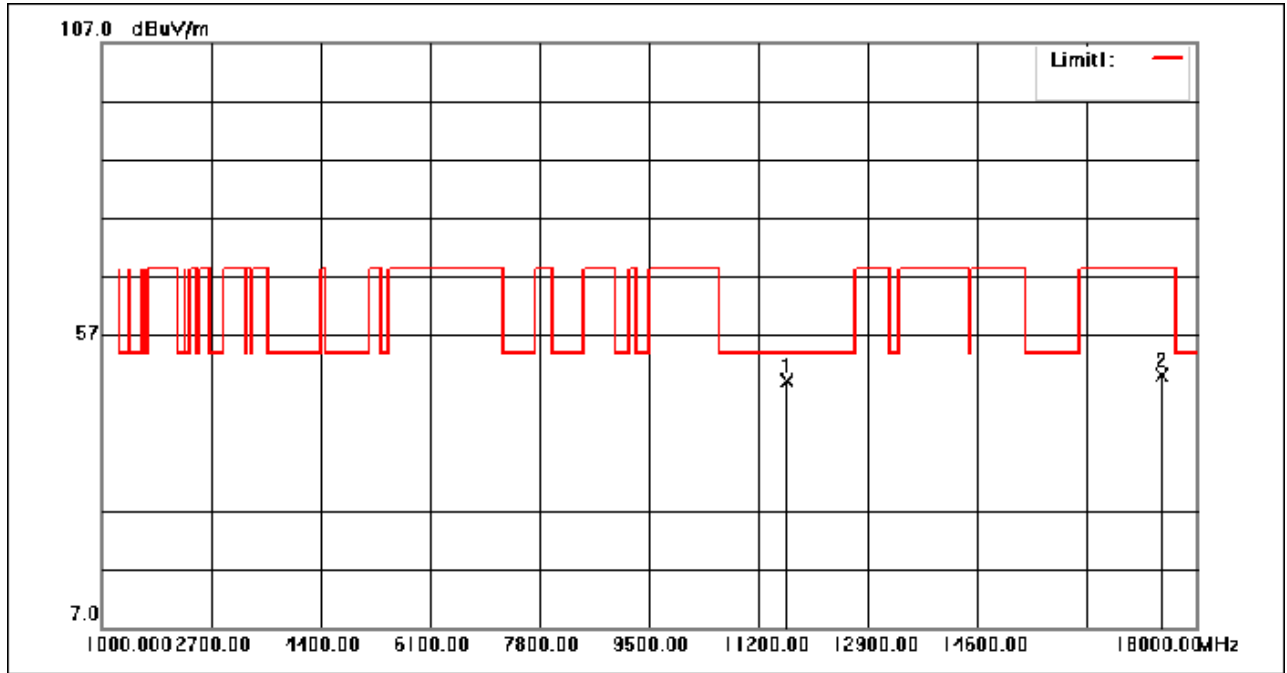
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 128 of 575

Test Mode: 04; 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	47.74	1.45	49.19	54.00	-4.81	peak
2	17475.000	41.25	8.90	50.15	68.30	-18.15	peak



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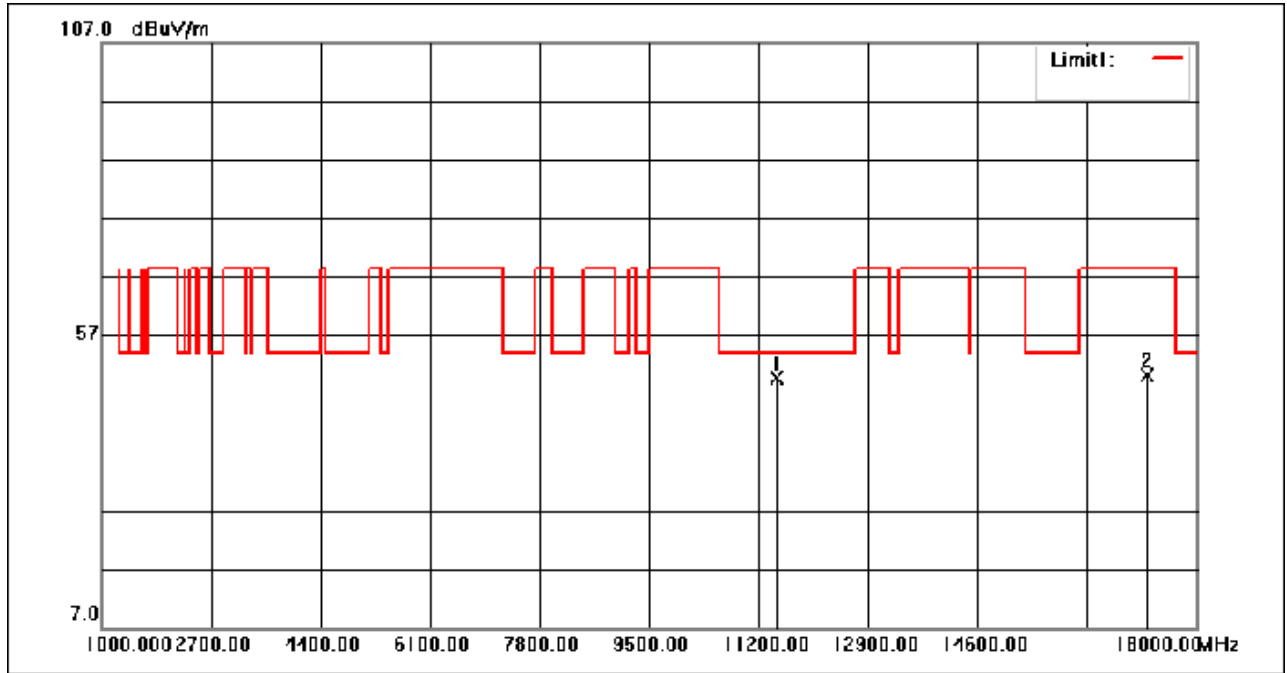
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.74	0.94	49.68	54.00	-4.32	peak
2	17235.000	41.20	9.05	50.25	68.30	-18.05	peak



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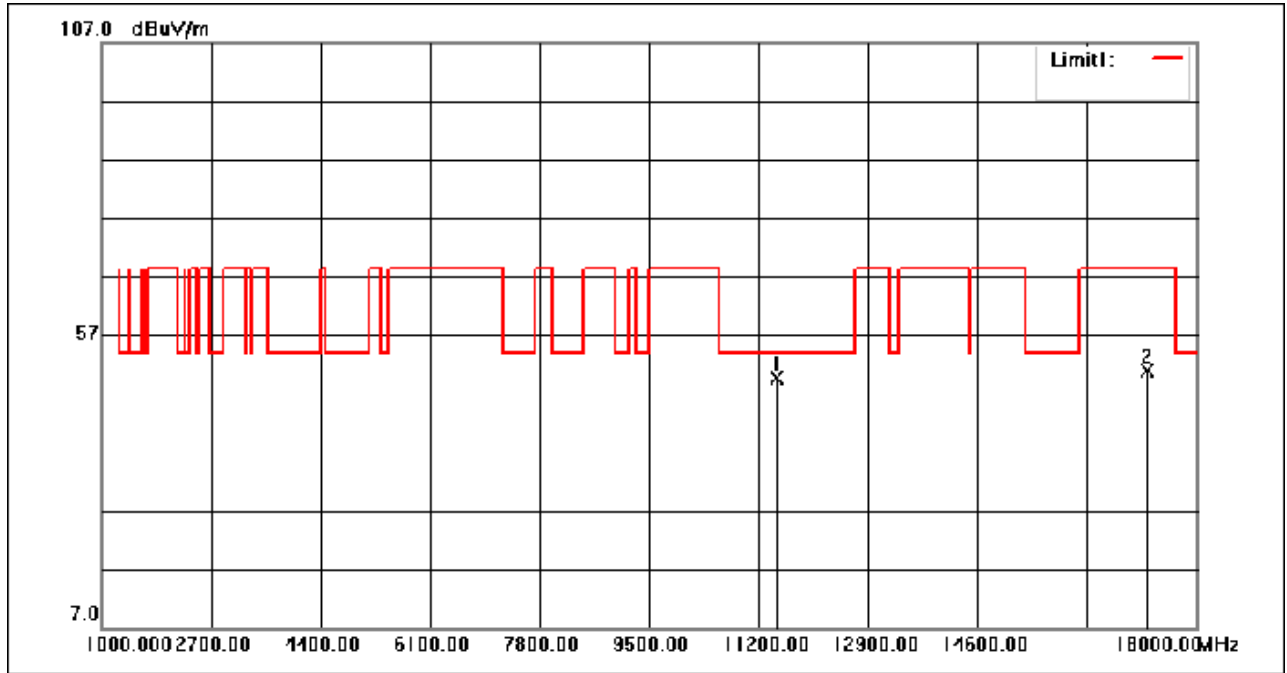
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 04; 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	48.62	0.94	49.56	54.00	-4.44	peak
2	17235.000	41.71	9.05	50.76	68.30	-17.54	peak

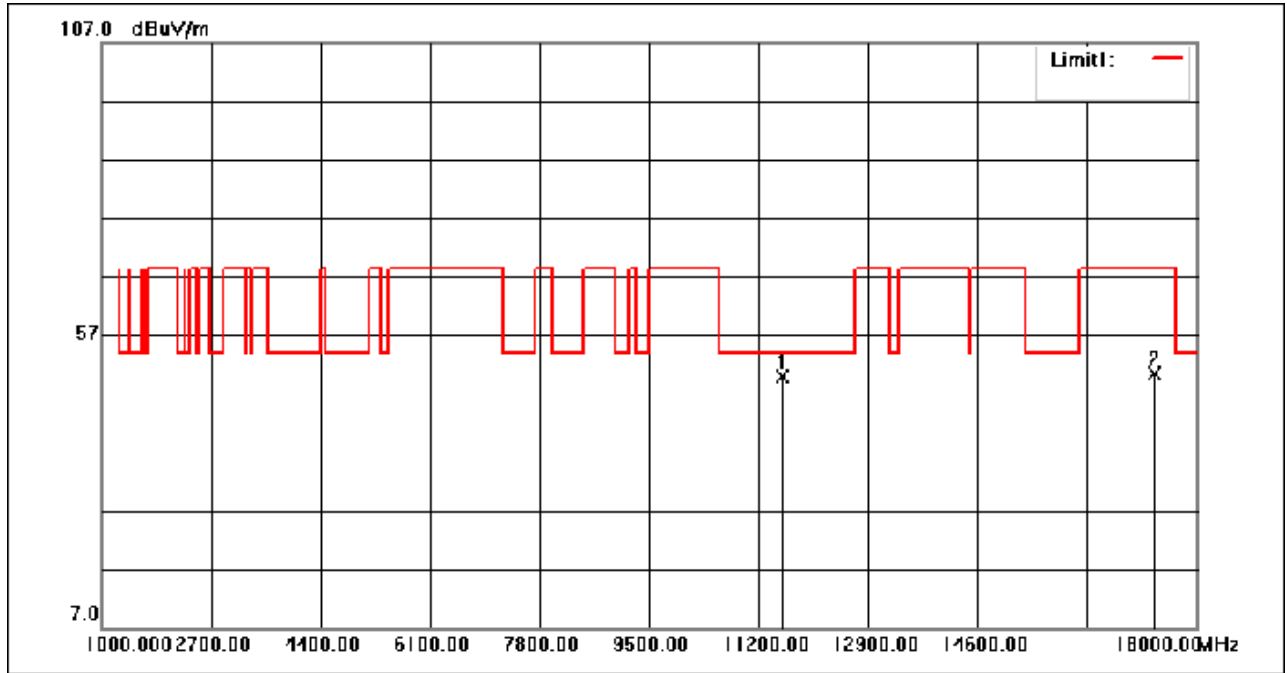


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.61	1.18	49.79	54.00	-4.21	peak
2	17355.000	41.30	8.98	50.28	68.30	-18.02	peak



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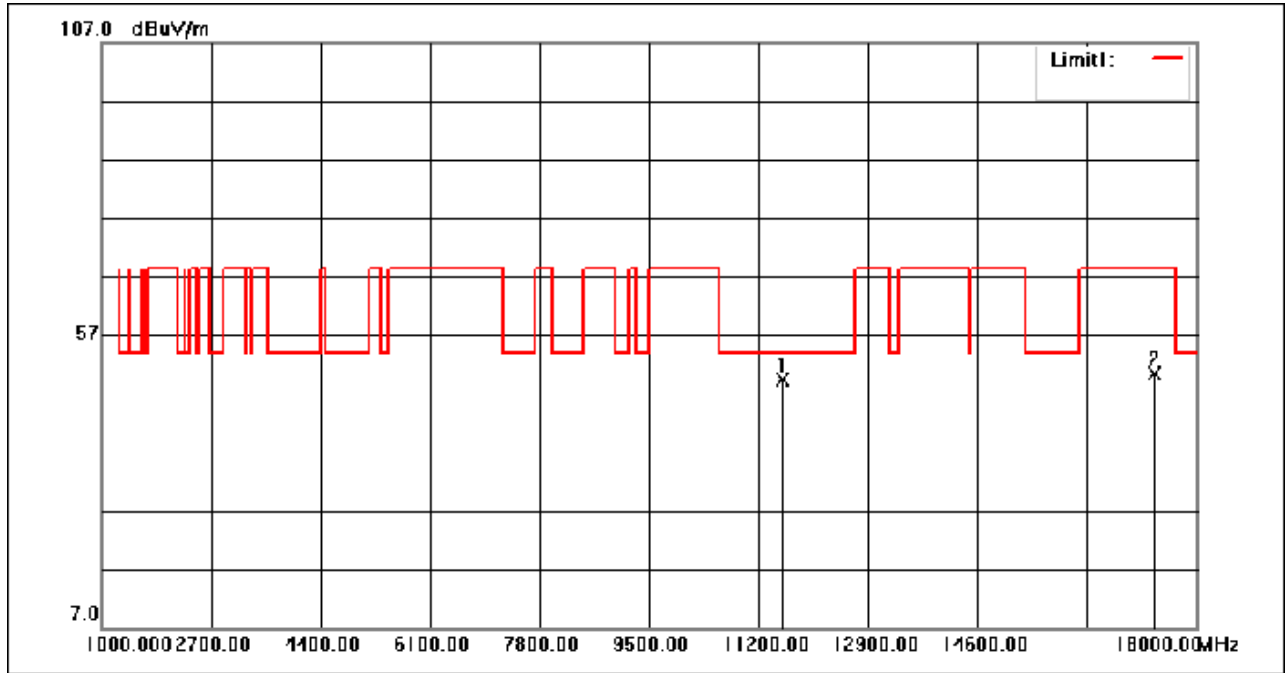
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 132 of 575

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.17	1.18	49.35	54.00	-4.65	peak
2	17355.000	41.34	8.98	50.32	68.30	-17.98	peak



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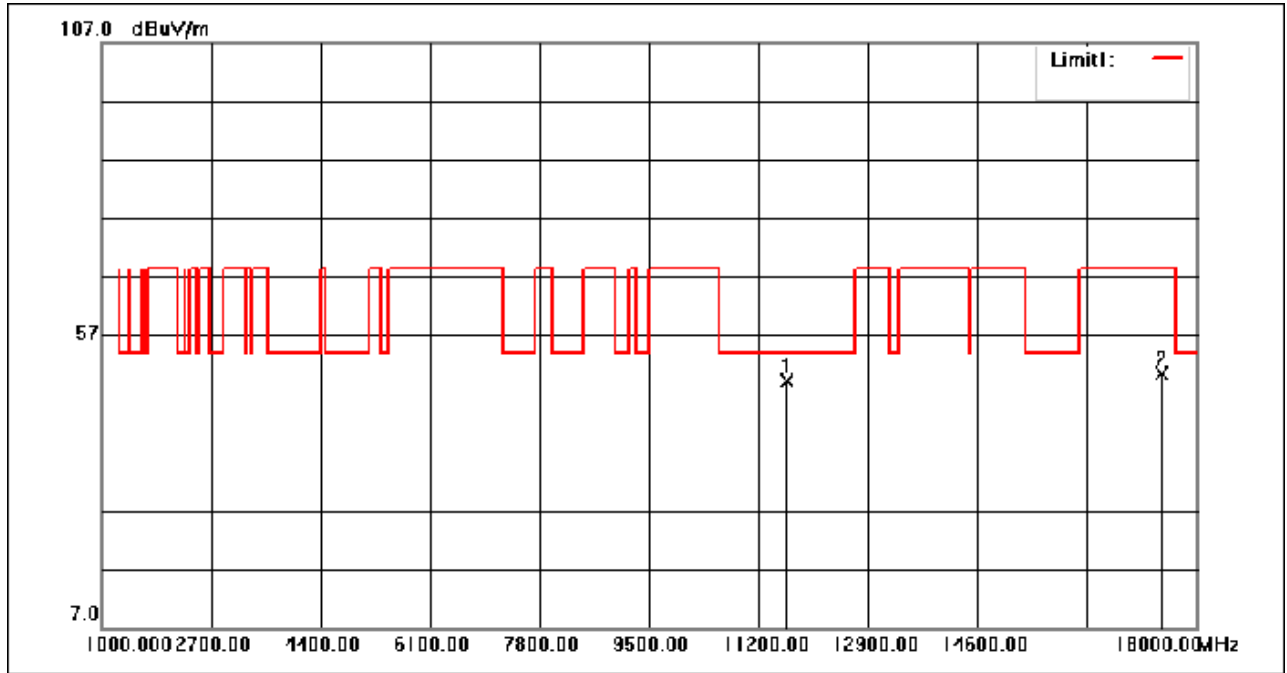


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 133 of 575

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	47.61	1.45	49.06	54.00	-4.94	peak
2	17475.000	41.52	8.90	50.42	68.30	-17.88	peak

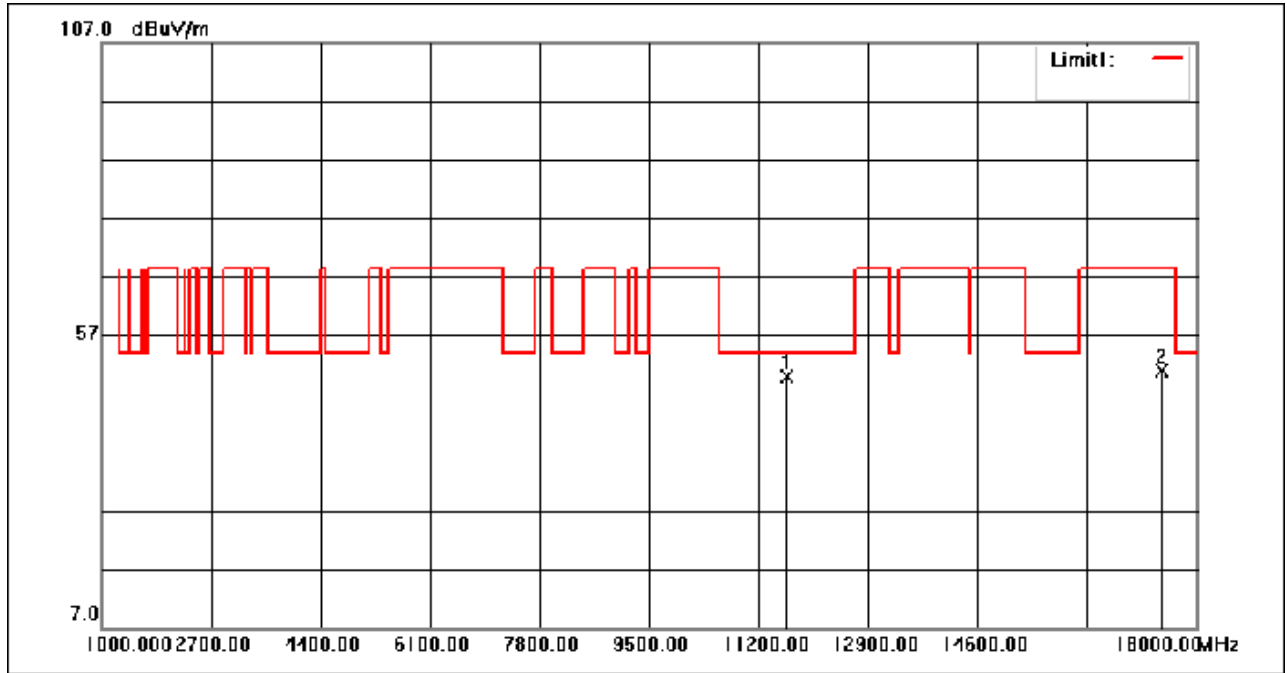


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.36	1.45	49.81	54.00	-4.19	peak
2	17475.000	42.04	8.90	50.94	68.30	-17.36	peak



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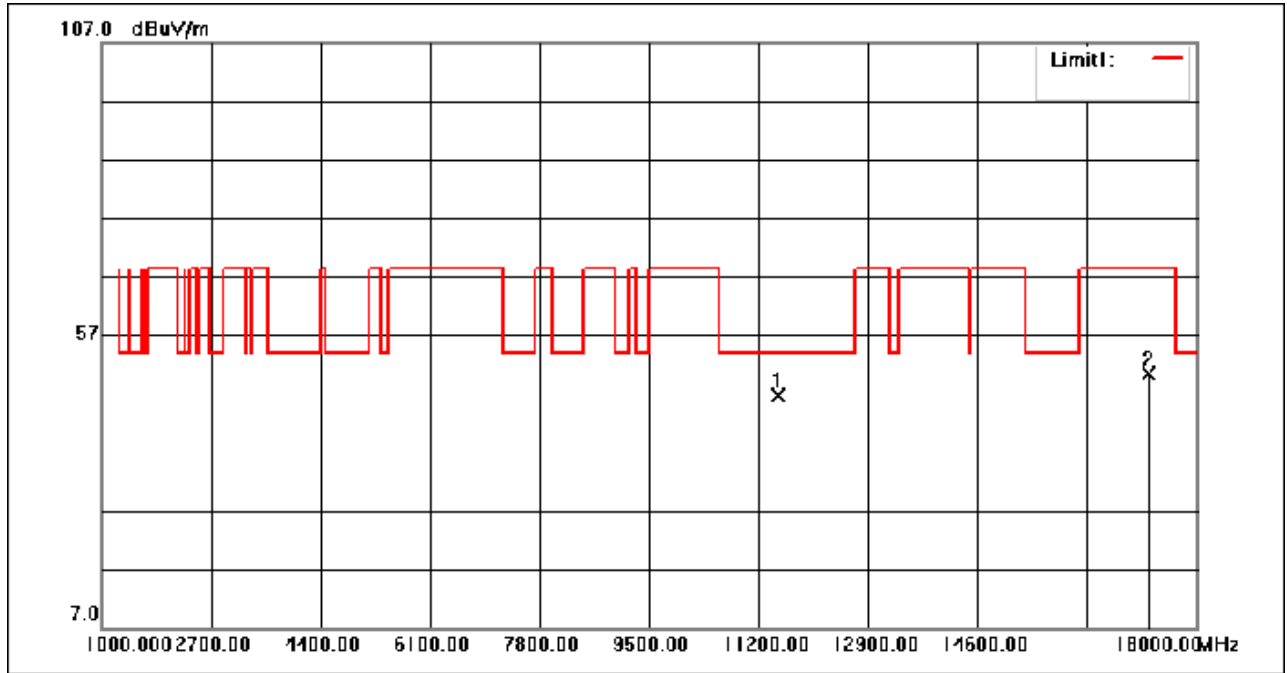
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 04; 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	45.69	0.99	46.68	54.00	-7.32	peak
2	17265.000	41.25	9.03	50.28	68.30	-18.02	peak



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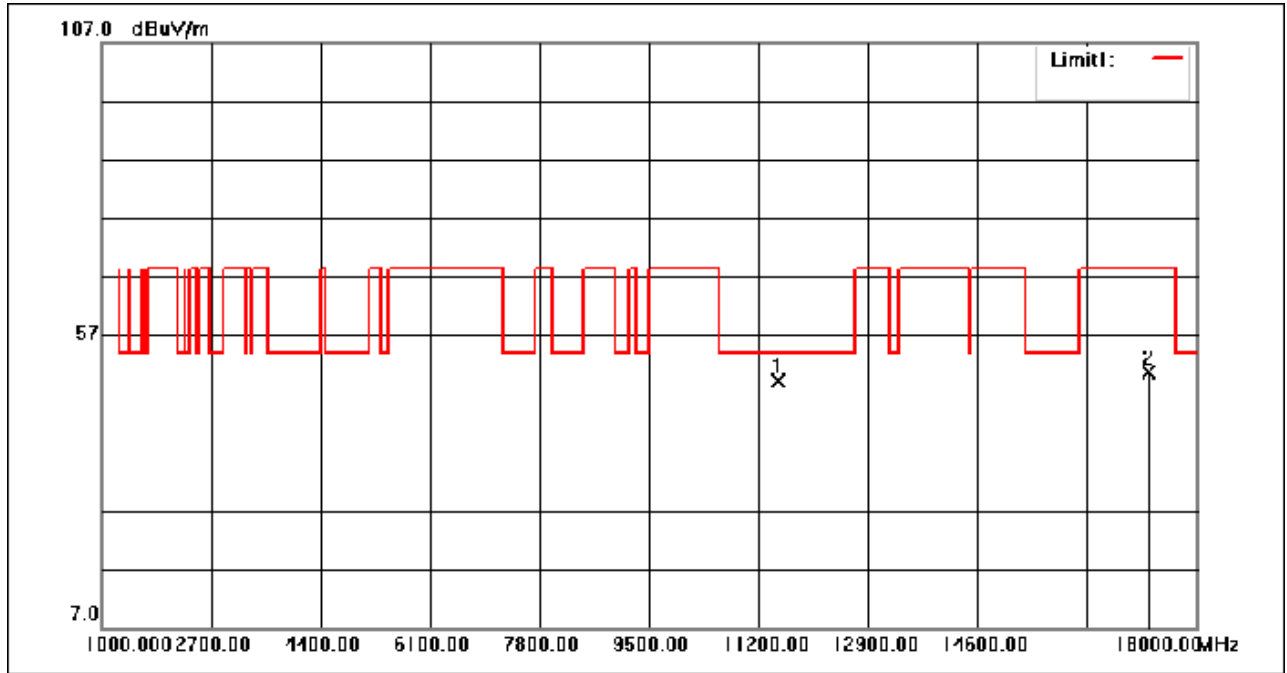
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 136 of 575

Test Mode: 04; 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	48.24	0.99	49.23	54.00	-4.77	peak
2	17265.000	41.65	9.03	50.68	68.30	-17.62	peak



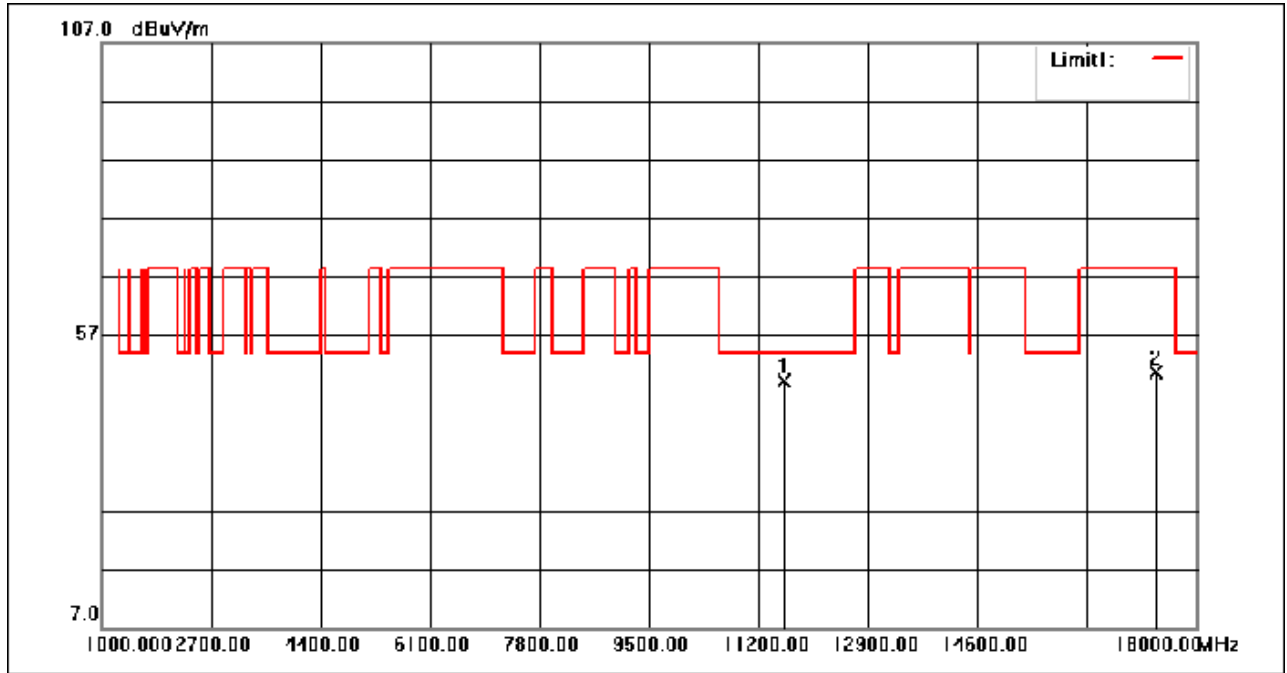
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	47.96	1.25	49.21	54.00	-4.79	peak
2	17385.000	41.71	8.96	50.67	68.30	-17.63	peak



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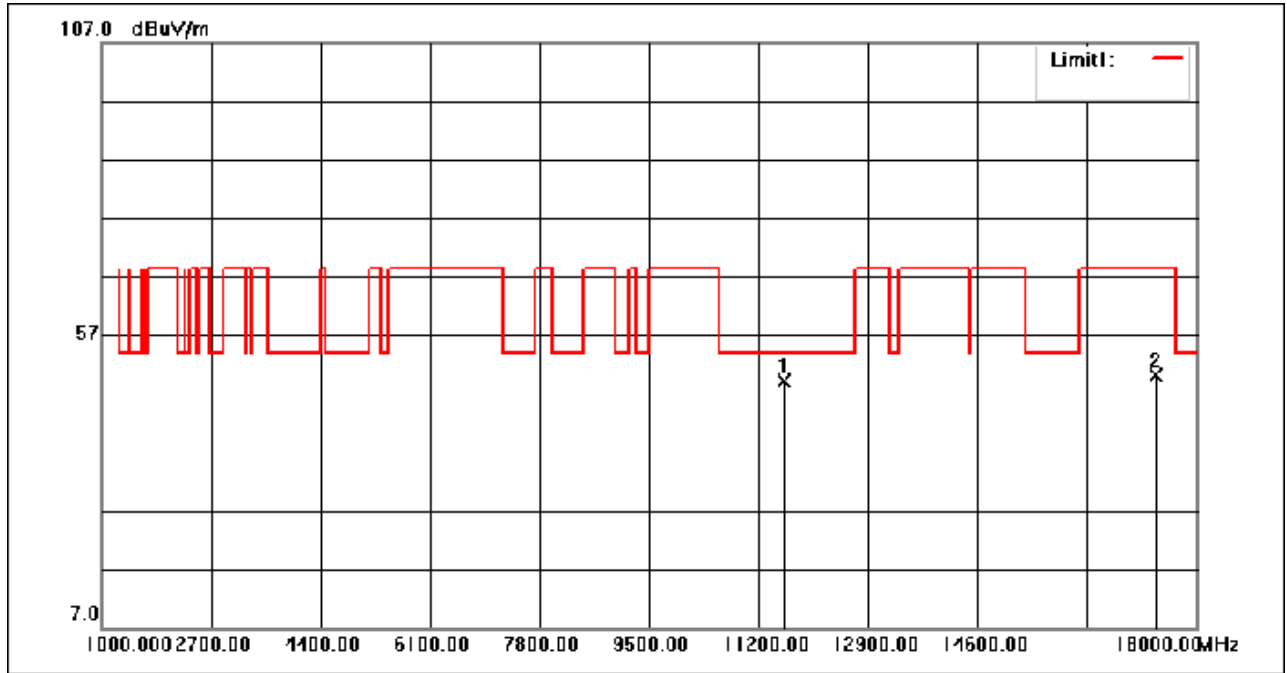
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	47.88	1.25	49.13	54.00	-4.87	peak
2	17385.000	41.23	8.96	50.19	68.30	-18.11	peak

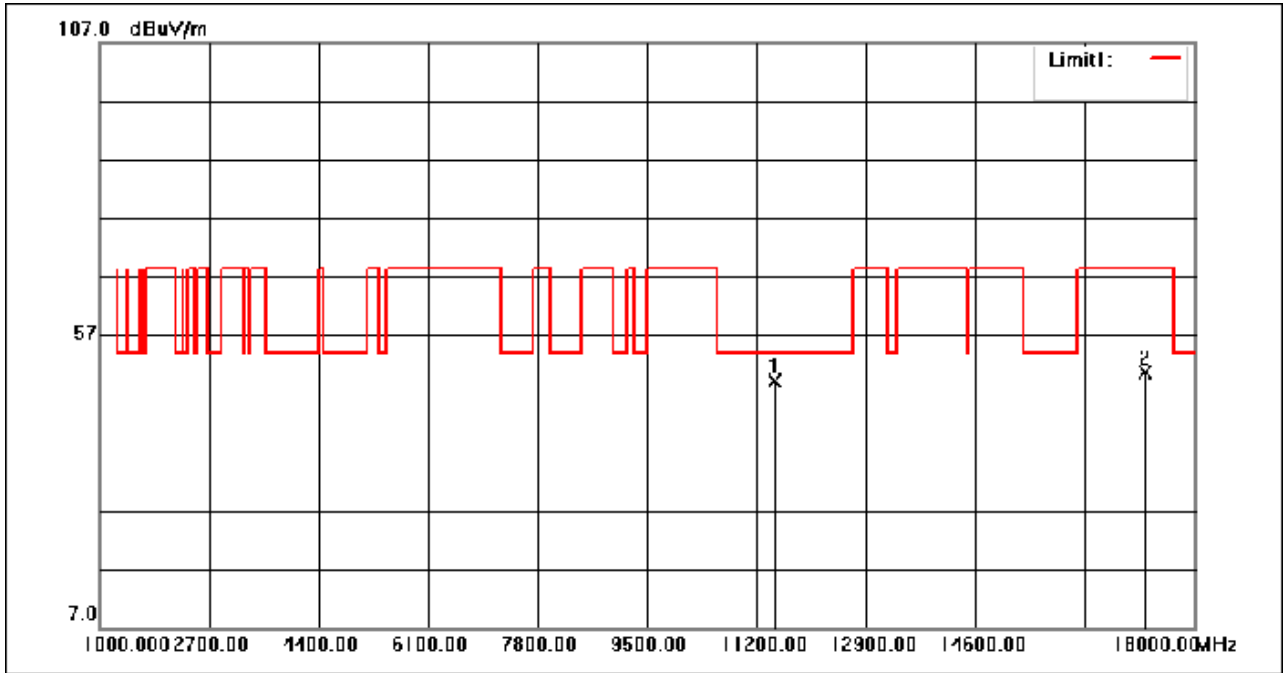


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.28	0.94	49.22	54.00	-4.78	peak
2	17235.000	41.59	9.05	50.64	68.30	-17.66	peak

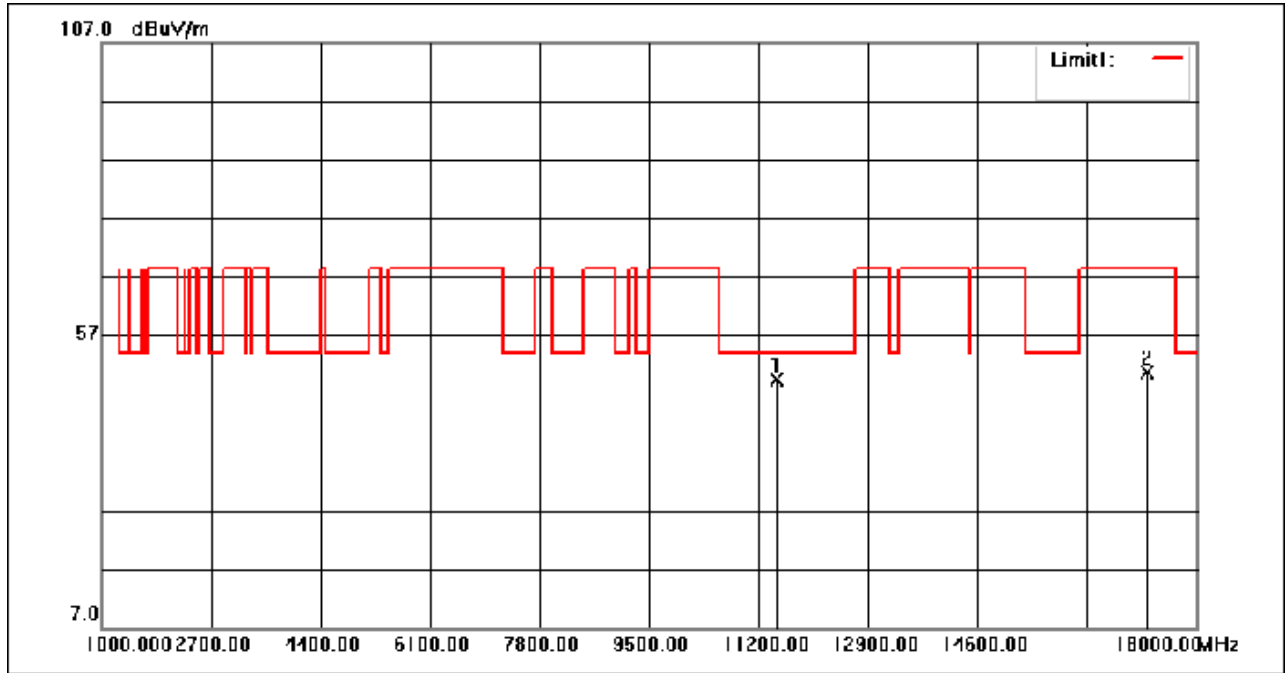


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.51	0.94	49.45	54.00	-4.55	peak
2	17235.000	41.52	9.05	50.57	68.30	-17.73	peak



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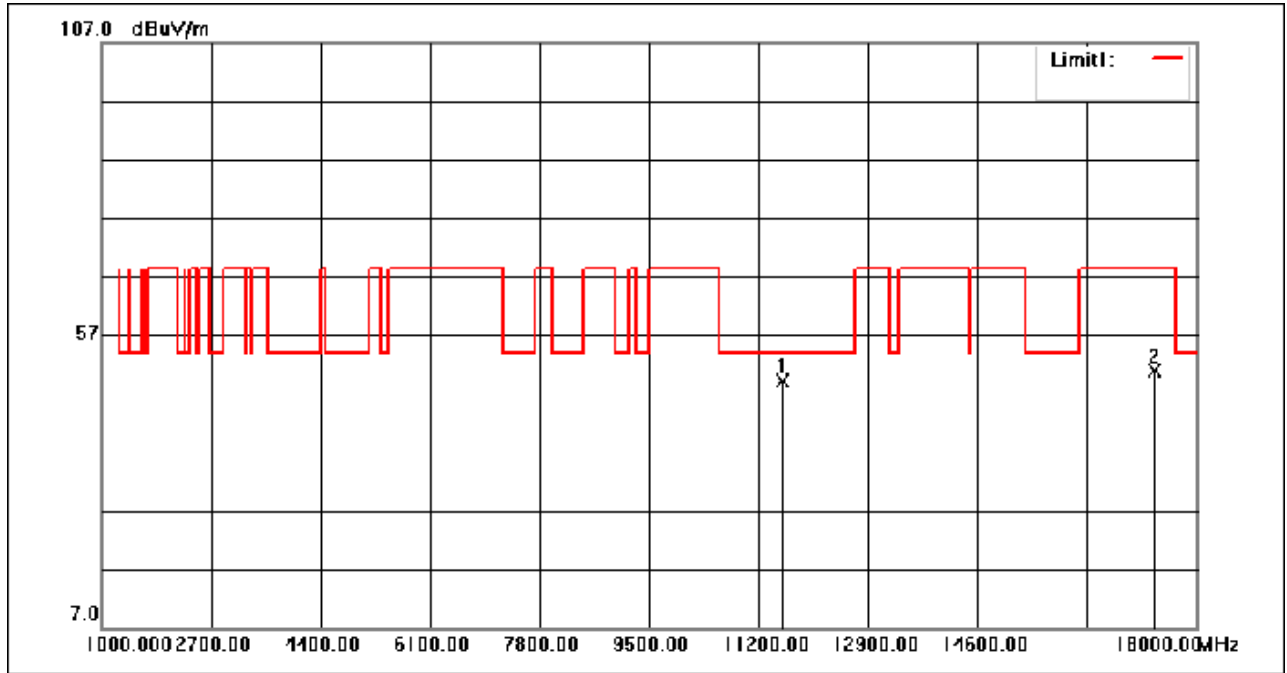


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 141 of 575

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	47.89	1.18	49.07	54.00	-4.93	peak
2	17355.000	41.84	8.98	50.82	68.30	-17.48	peak



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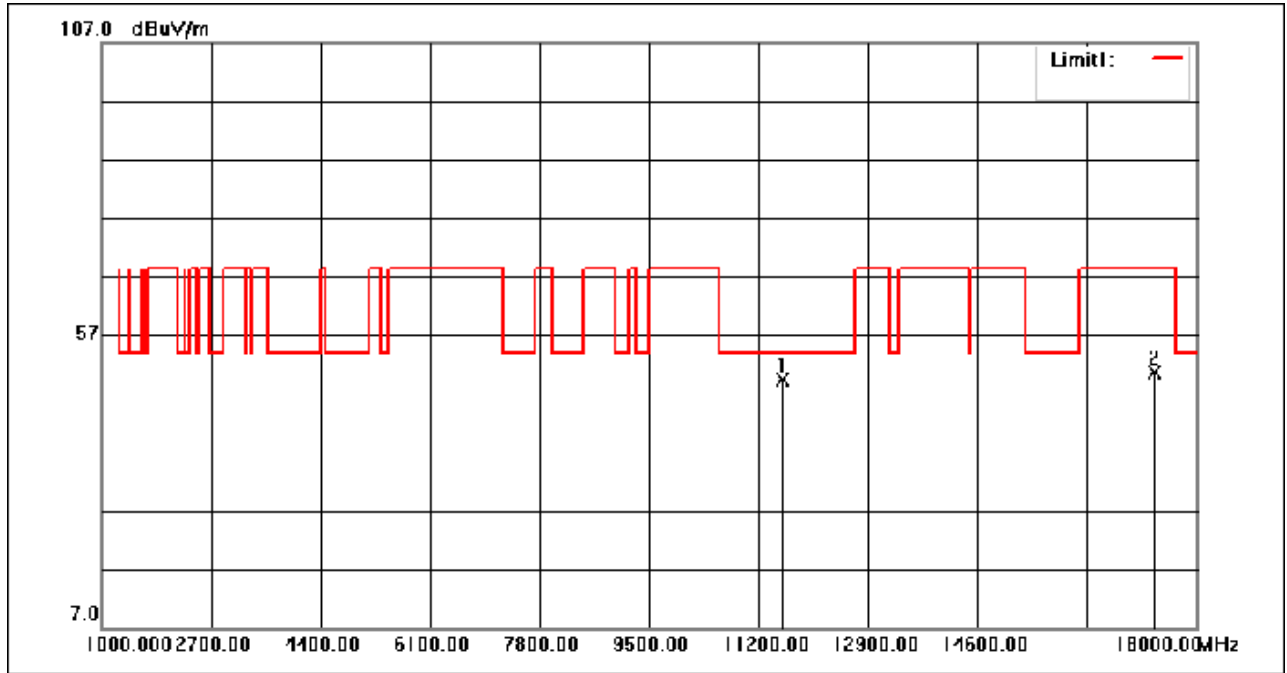
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 142 of 575

Test Mode: 04; 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	48.08	1.18	49.26	54.00	-4.74	peak
2	17355.000	41.61	8.98	50.59	68.30	-17.71	peak

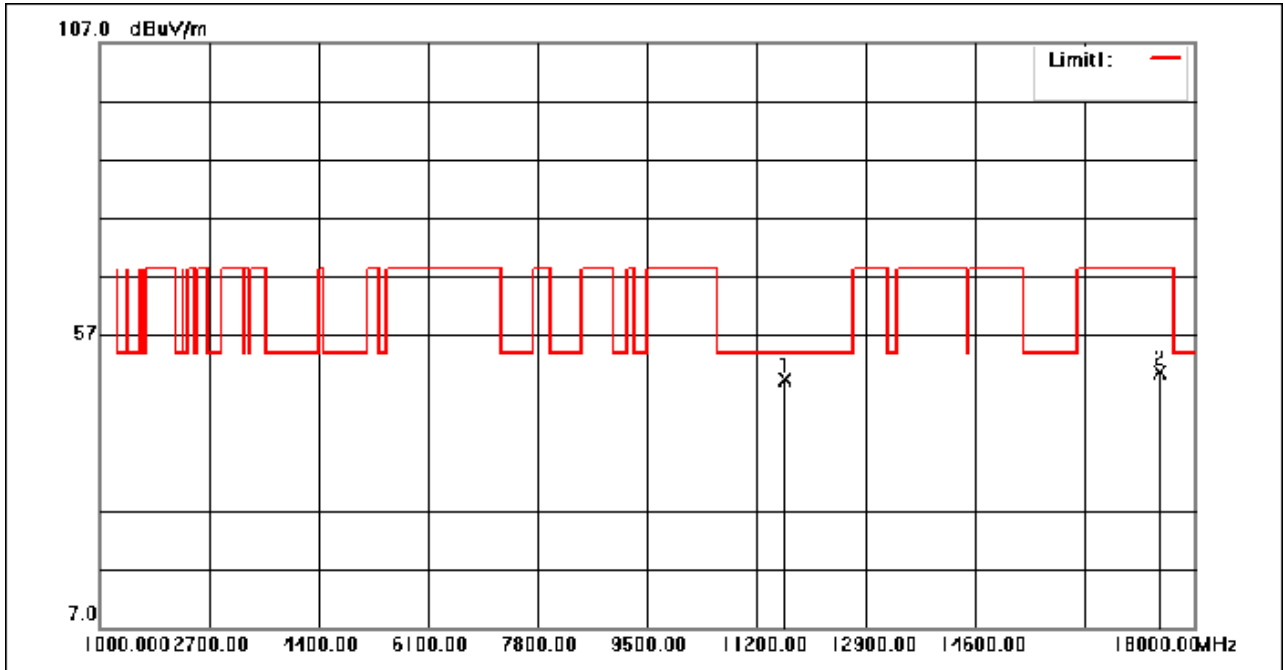


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	47.99	1.45	49.44	54.00	-4.56	peak
2	17475.000	41.76	8.90	50.66	68.30	-17.64	peak



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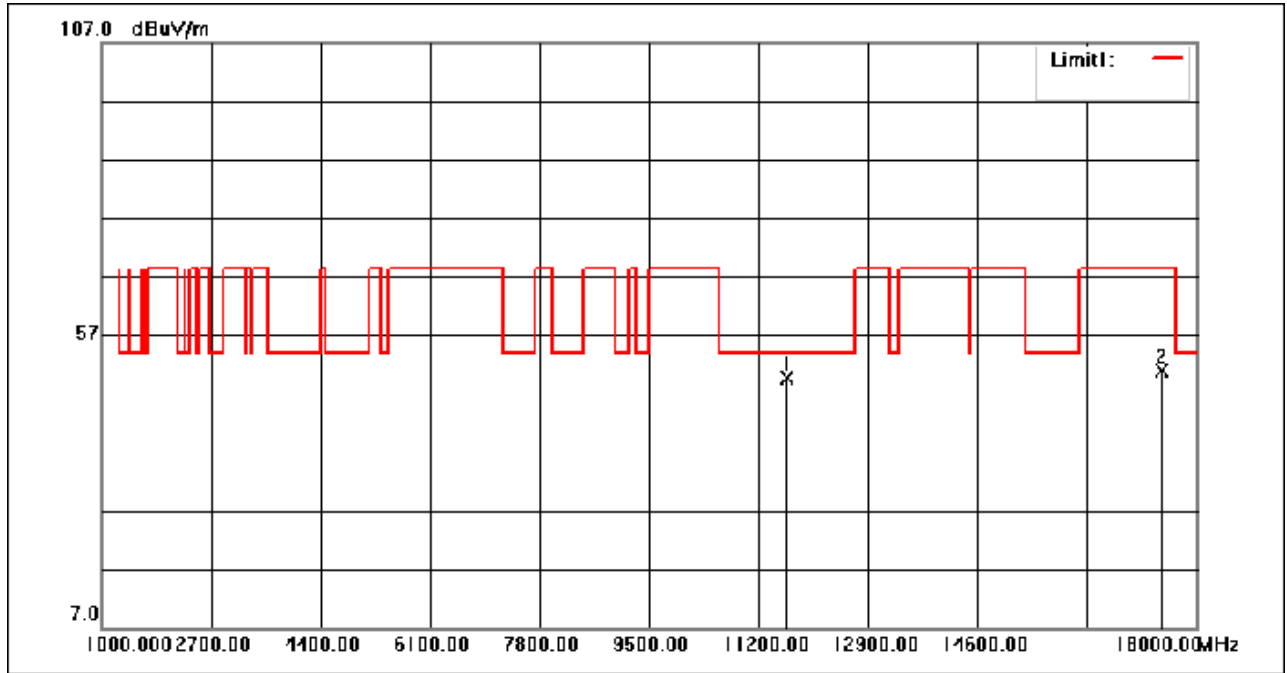
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 144 of 575

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.22	1.45	49.67	54.00	-4.33	peak
2	17475.000	41.89	8.90	50.79	68.30	-17.51	peak



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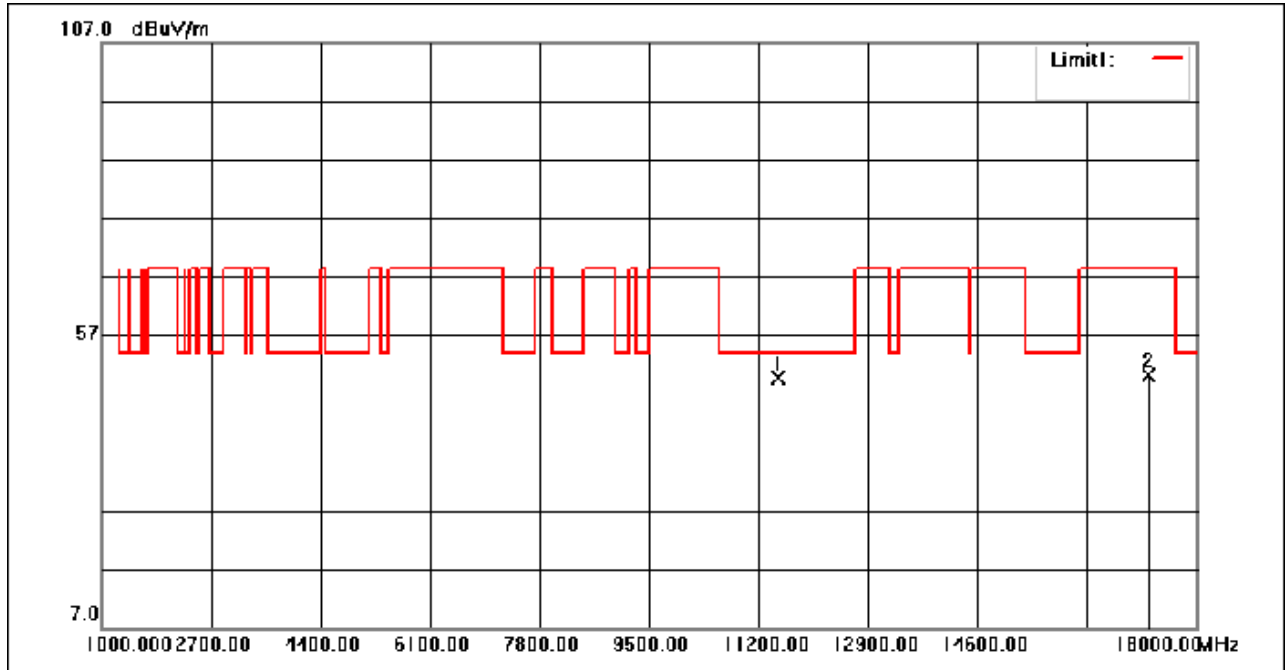


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 145 of 575

Test Mode: 04; 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	48.73	0.99	49.72	54.00	-4.28	peak
2	17265.000	41.16	9.03	50.19	68.30	-18.11	peak



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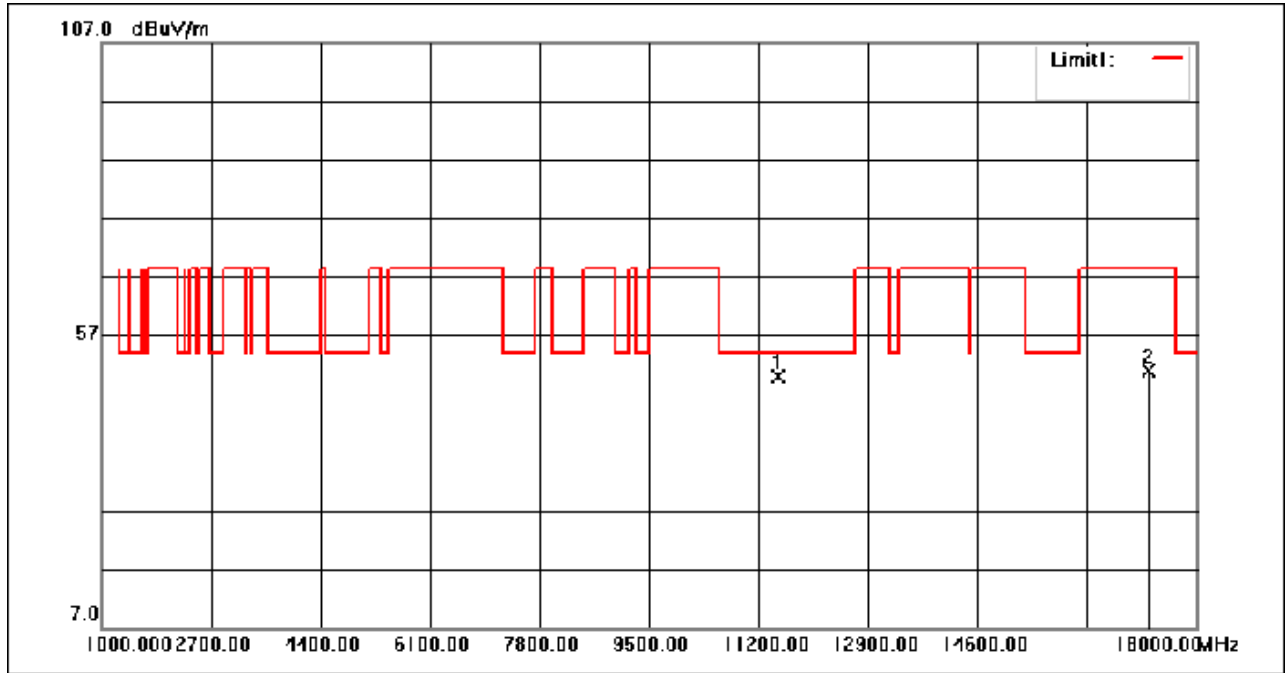
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 146 of 575

Test Mode: 04; 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	48.82	0.99	49.81	54.00	-4.19	peak
2	17265.000	41.90	9.03	50.93	68.30	-17.37	peak



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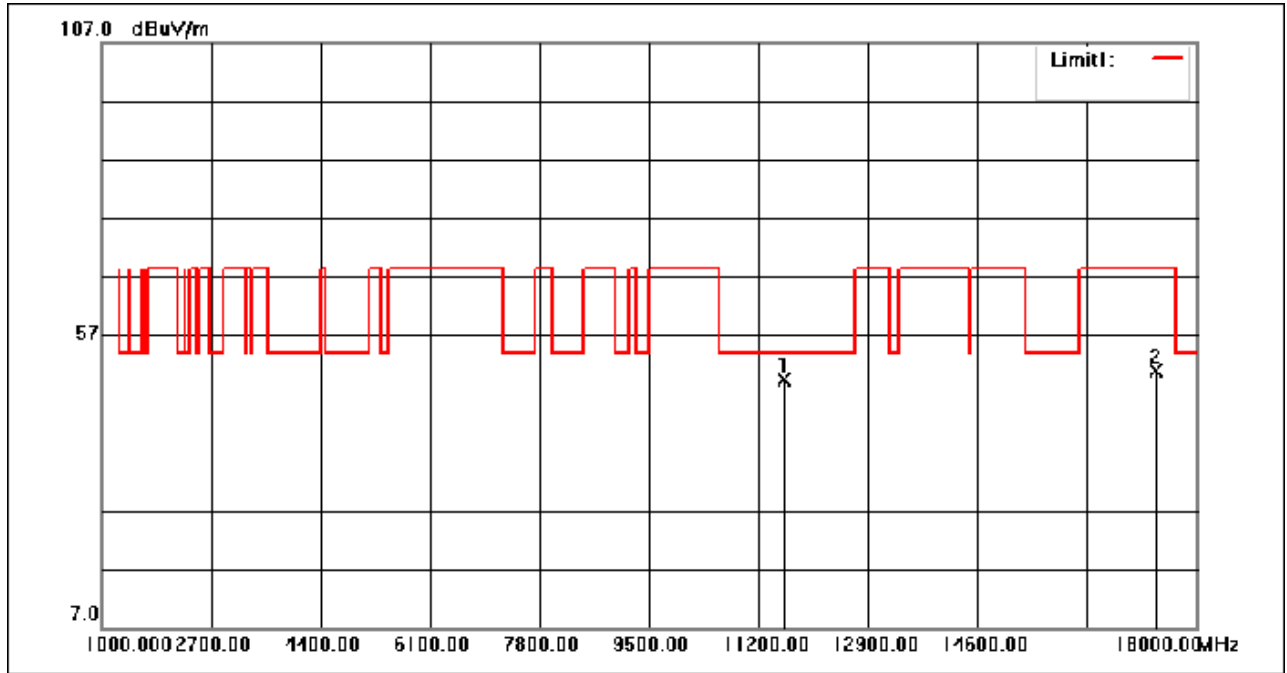
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 147 of 575

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.19	1.25	49.44	54.00	-4.56	peak
2	17385.000	41.89	8.96	50.85	68.30	-17.45	peak



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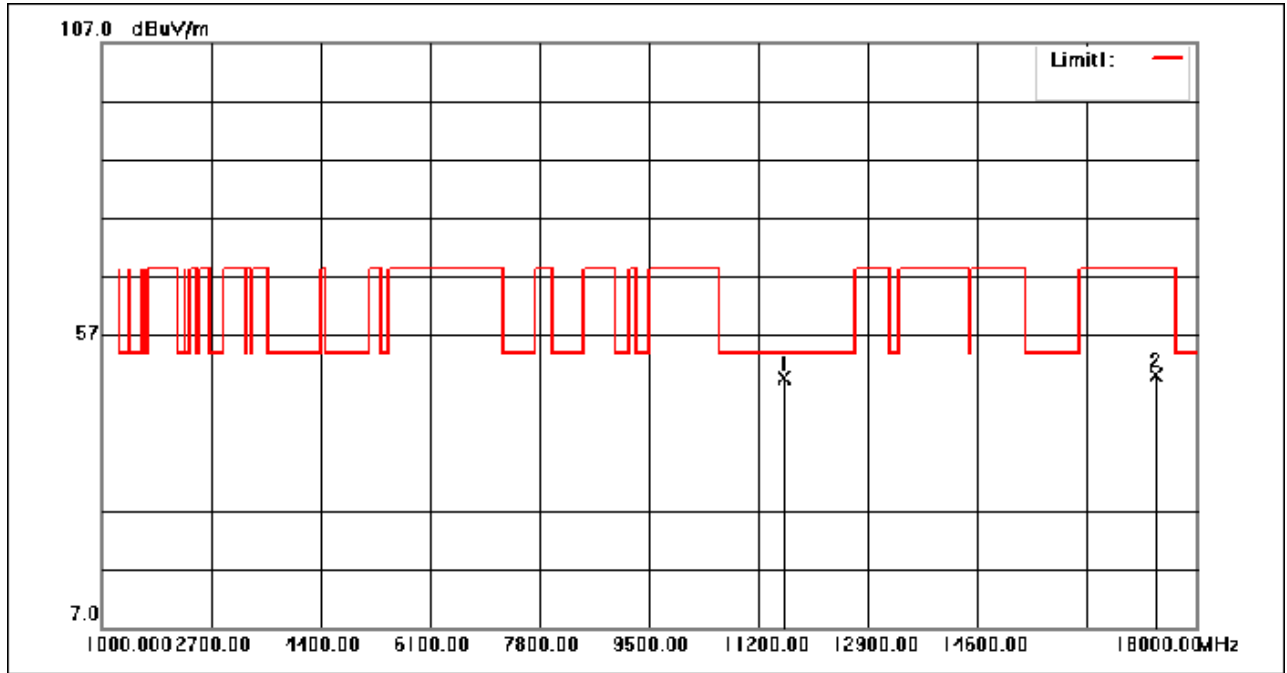
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 148 of 575

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.38	1.25	49.63	54.00	-4.37	peak
2	17385.000	41.11	8.96	50.07	68.30	-18.23	peak



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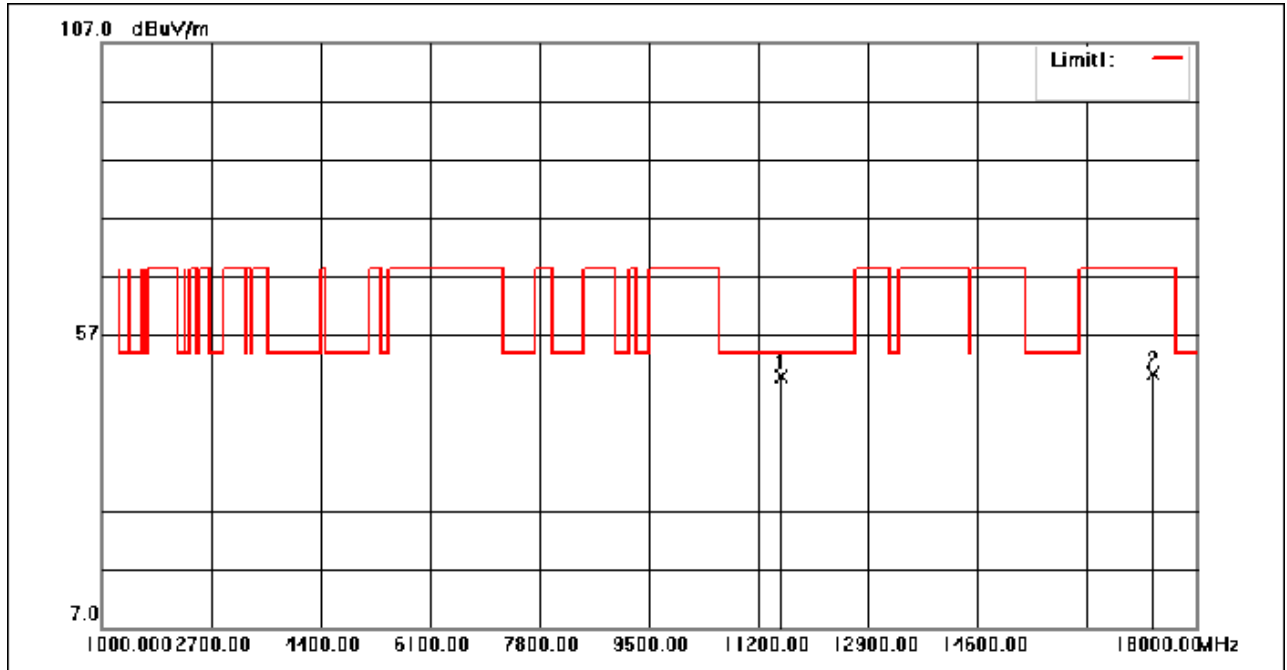


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 149 of 575

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	48.64	1.12	49.76	54.00	-4.24	peak
2	17325.000	41.29	8.99	50.28	68.30	-18.02	peak

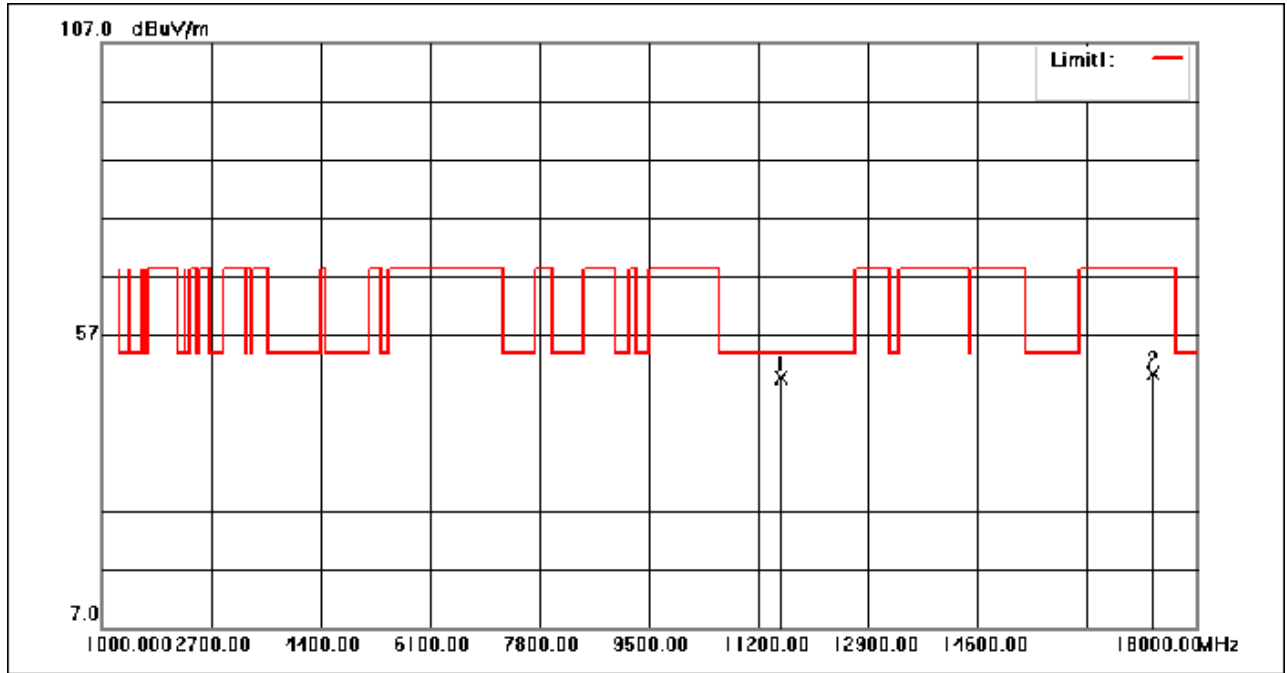


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	48.39	1.12	49.51	54.00	-4.49	peak
2	17325.000	41.28	8.99	50.27	68.30	-18.03	peak



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**7.9 Radiated Emissions which fall in the restricted bands**

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

Test Method: KDB 789033 D02 II G

Limit:

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

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

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

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

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

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

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

**7.9.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.5 °C Humidity: 58.5 % RH Atmospheric Pressure: 1010 mbar

**7.9.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all



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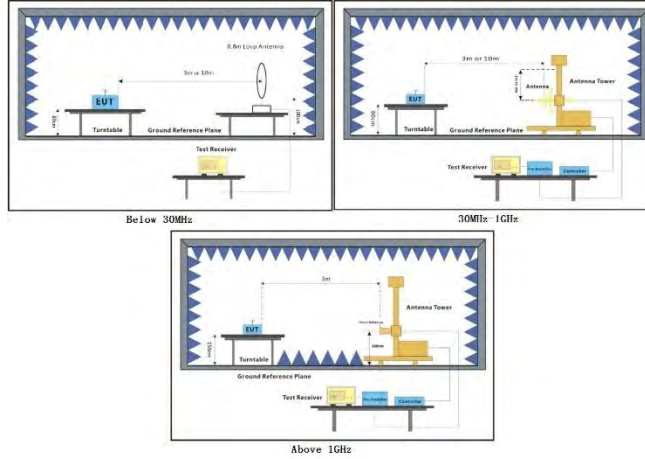
		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80) final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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### 7.9.3 Test Setup Diagram



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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

Remark: For WLAN radiated test, according to the conducted power and verify test the SISO & MIMO mode, the worst-case is SISO mode for 802.11a, MIMO mode for 802.11n/ac, therefore, all final test are performed in SISO & MIMO mode and reported.



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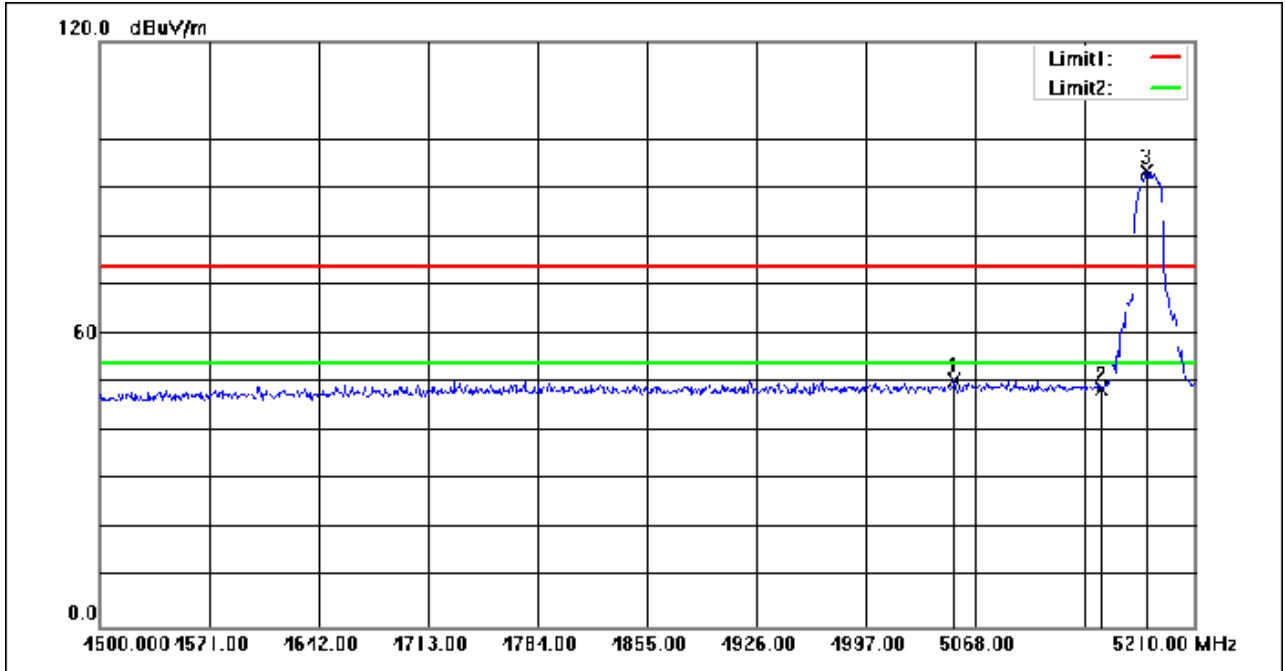
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 155 of 575

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	5054.510	61.21	-10.62	50.59	74.00	-23.41	peak
2	5150.000	59.44	-10.64	48.80	74.00	-25.20	peak
3	5179.470	104.13	-10.64	93.49	74.00	19.49	peak

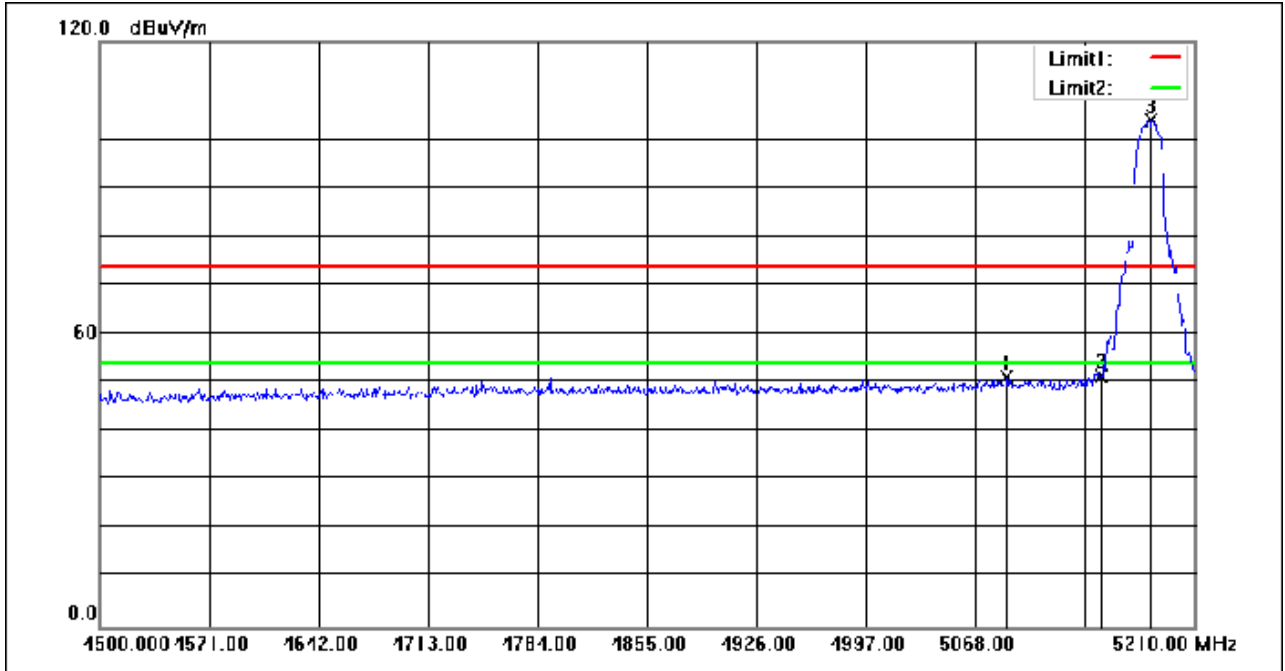


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5088.590	61.83	-10.63	51.20	74.00	-22.80	peak
2	5150.000	62.20	-10.64	51.56	74.00	-22.44	peak
3	5182.310	114.55	-10.64	103.91	74.00	29.91	peak



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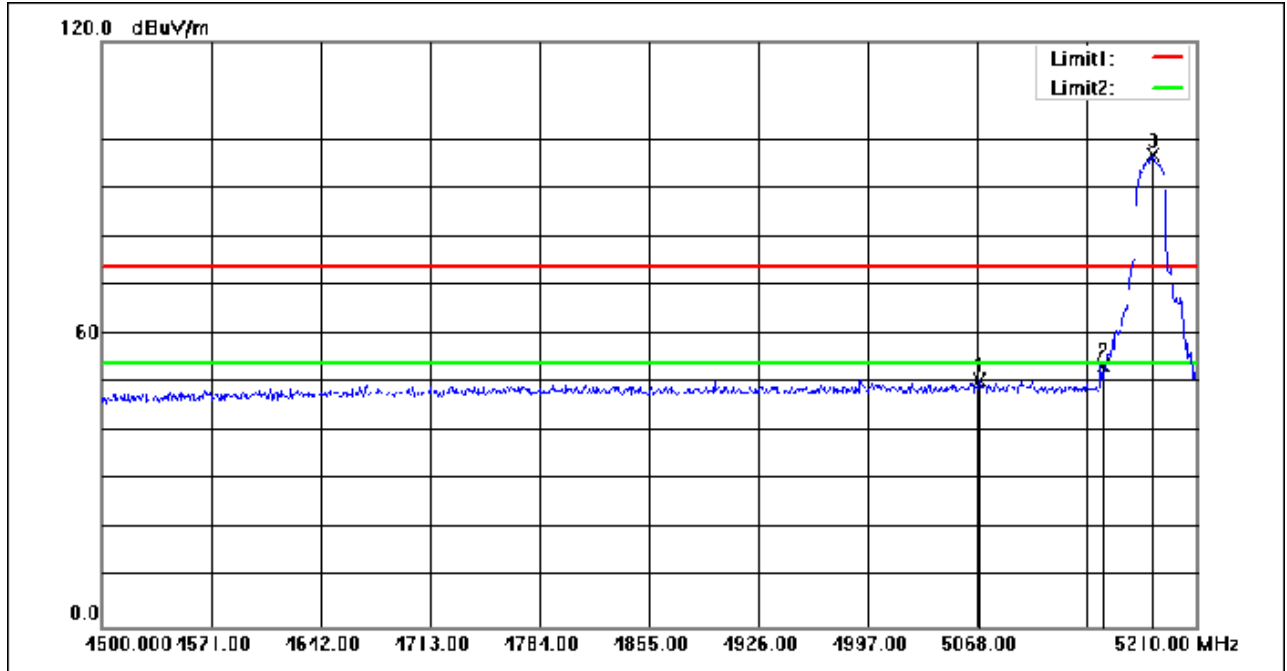
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5069.420	61.11	-10.62	50.49	74.00	-23.51	peak
2	5150.000	64.16	-10.64	53.52	74.00	-20.48	peak
3	5181.600	107.38	-10.64	96.74	74.00	22.74	peak



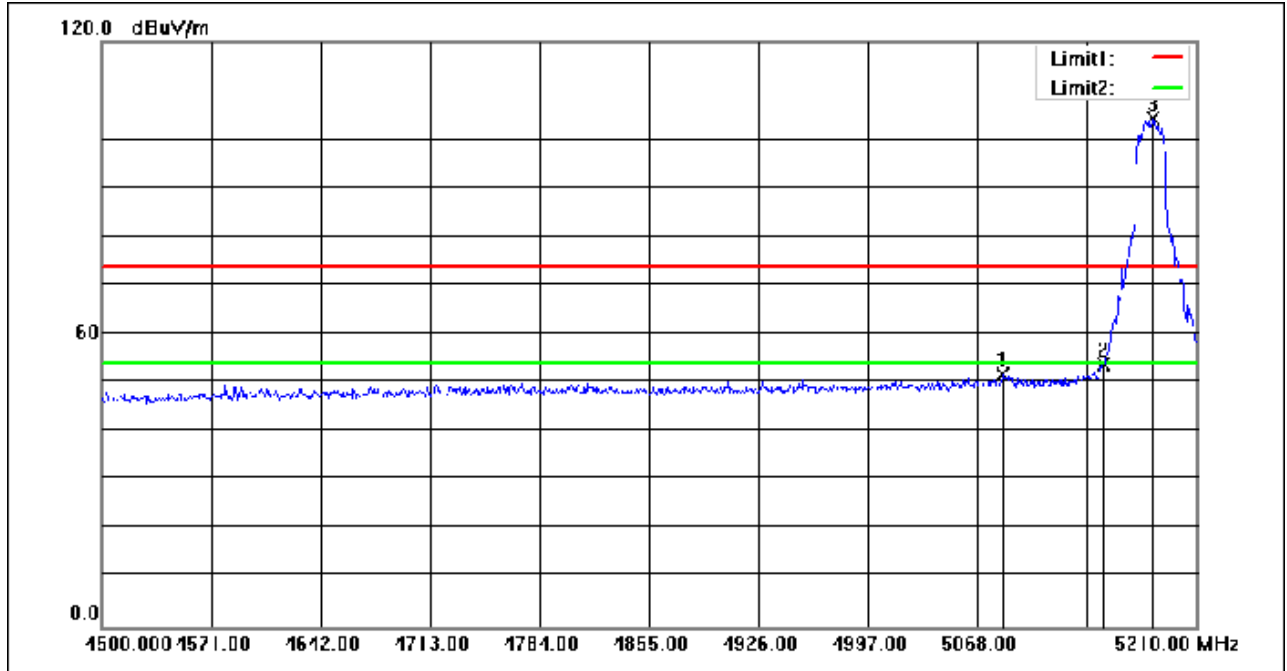
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5084.330	62.28	-10.63	51.65	74.00	-22.35	peak
2	5150.000	64.50	-10.64	53.86	74.00	-20.14	peak
3	5182.310	114.78	-10.64	104.14	74.00	30.14	peak

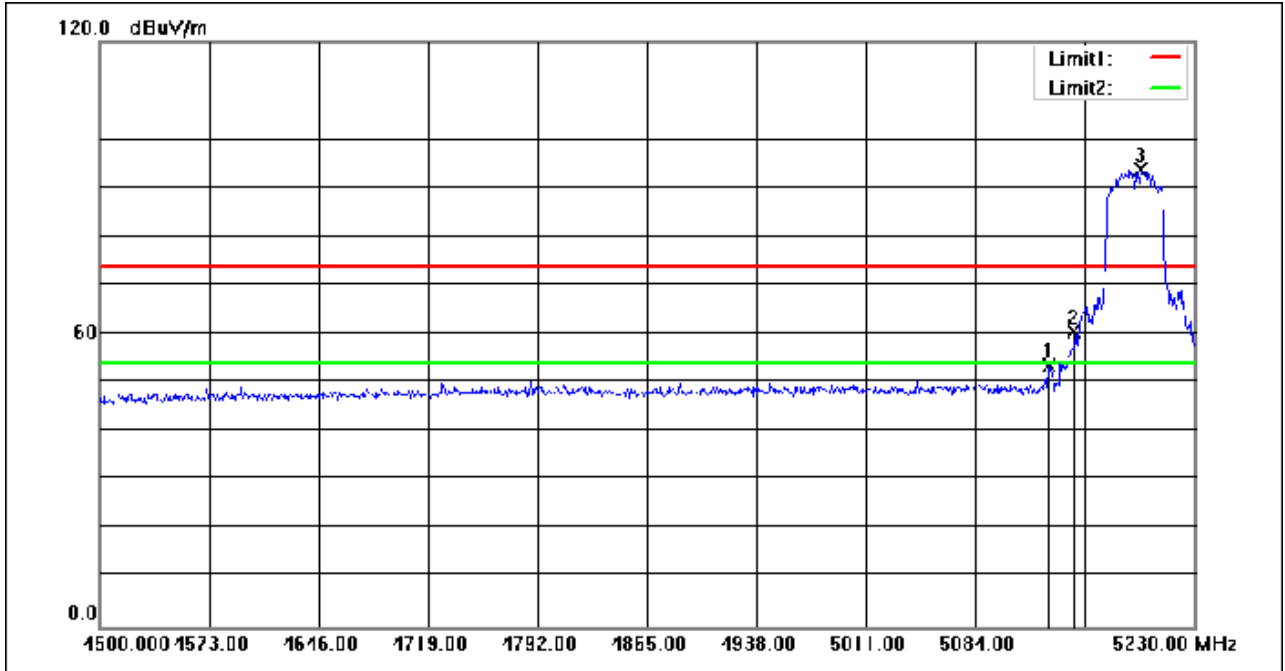


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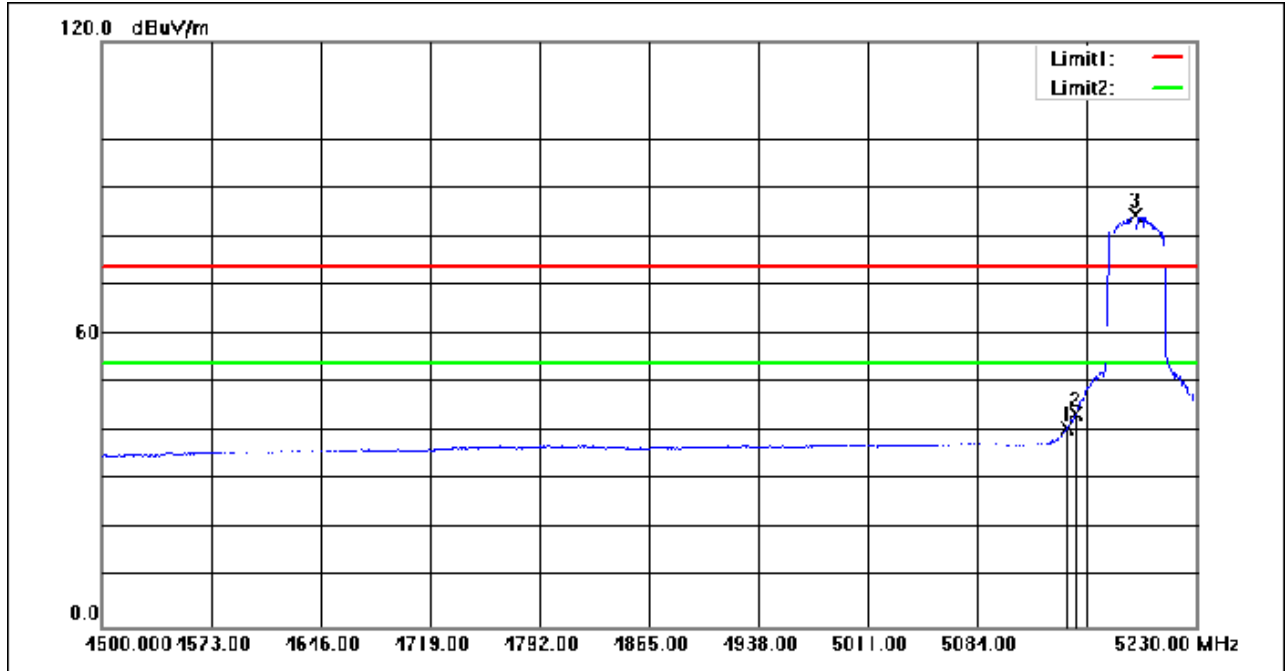
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5132.910	64.27	-10.64	53.63	74.00	-20.37	peak
2	5150.000	71.09	-10.64	60.45	74.00	-13.55	peak
3	5194.230	104.48	-10.65	93.83	74.00	19.83	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	51.44	-10.64	40.80	54.00	-13.20	AVG
2	5150.000	54.28	-10.64	43.64	54.00	-10.36	AVG
3	5189.120	95.12	-10.65	84.47	54.00	30.47	AVG



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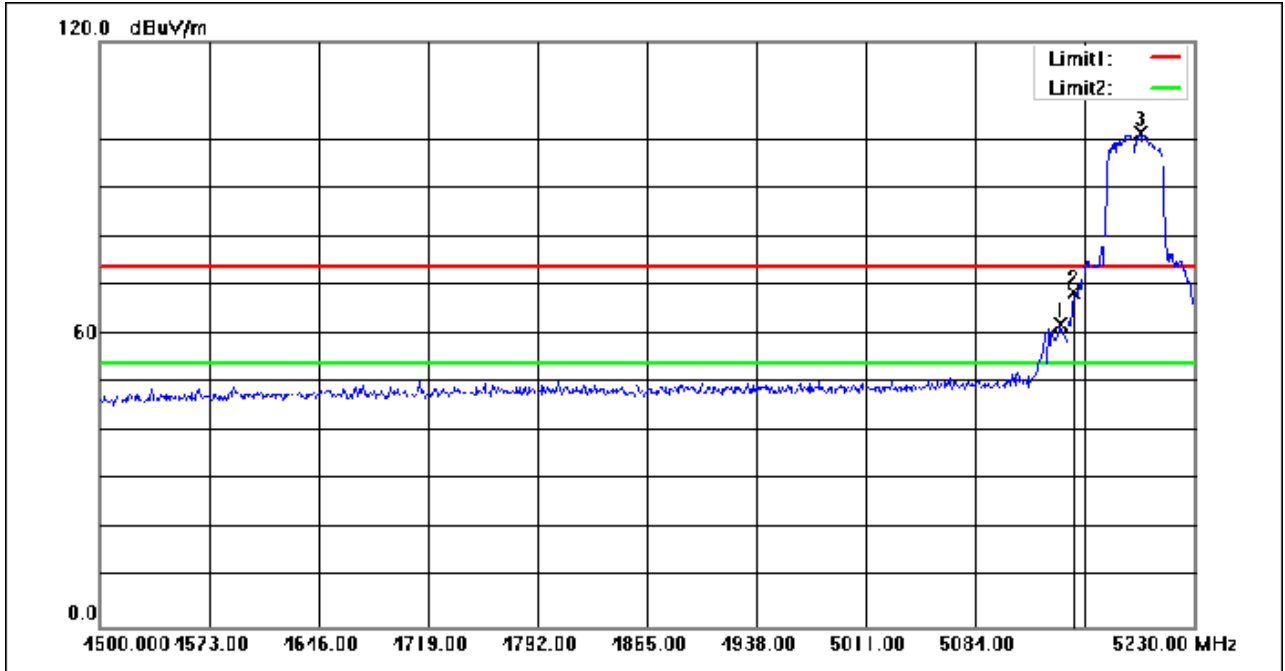
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



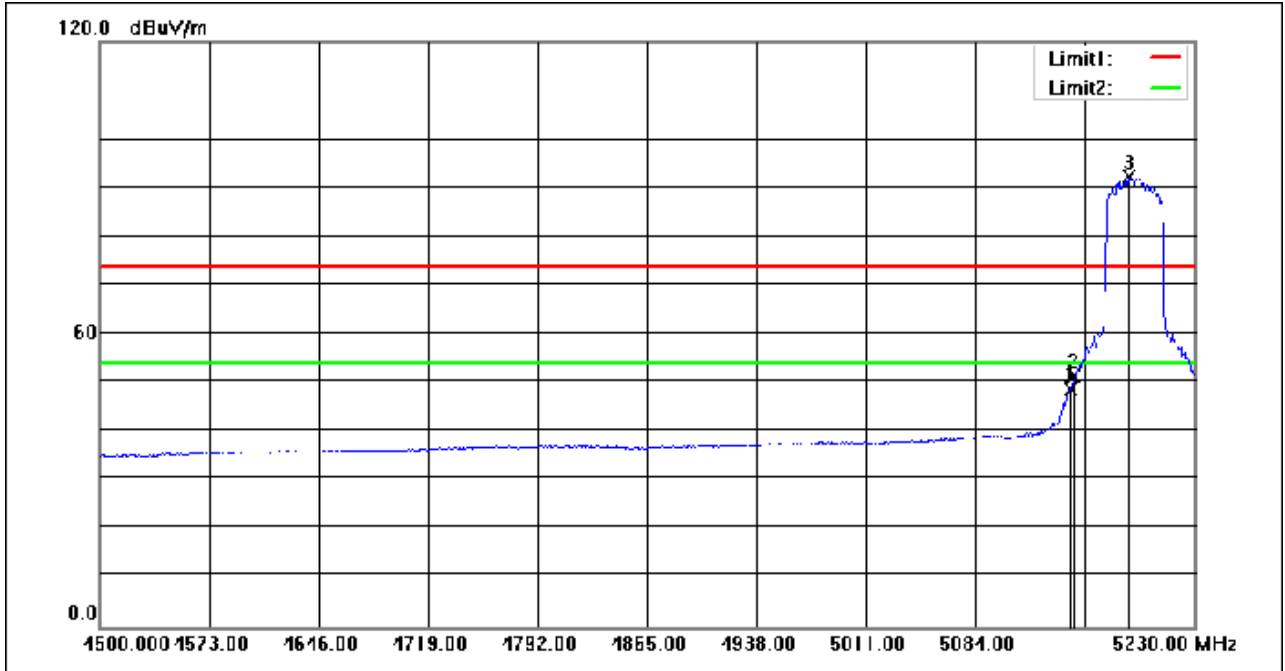
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5140.940	72.69	-10.64	62.05	74.00	-11.95	peak
2	5150.000	79.16	-10.64	68.52	74.00	-5.48	peak
3	5194.230	111.86	-10.65	101.21	74.00	27.21	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.510	59.35	-10.64	48.71	54.00	-5.29	AVG
2	5150.000	61.96	-10.64	51.32	54.00	-2.68	AVG
3	5186.200	102.89	-10.65	92.24	54.00	38.24	AVG



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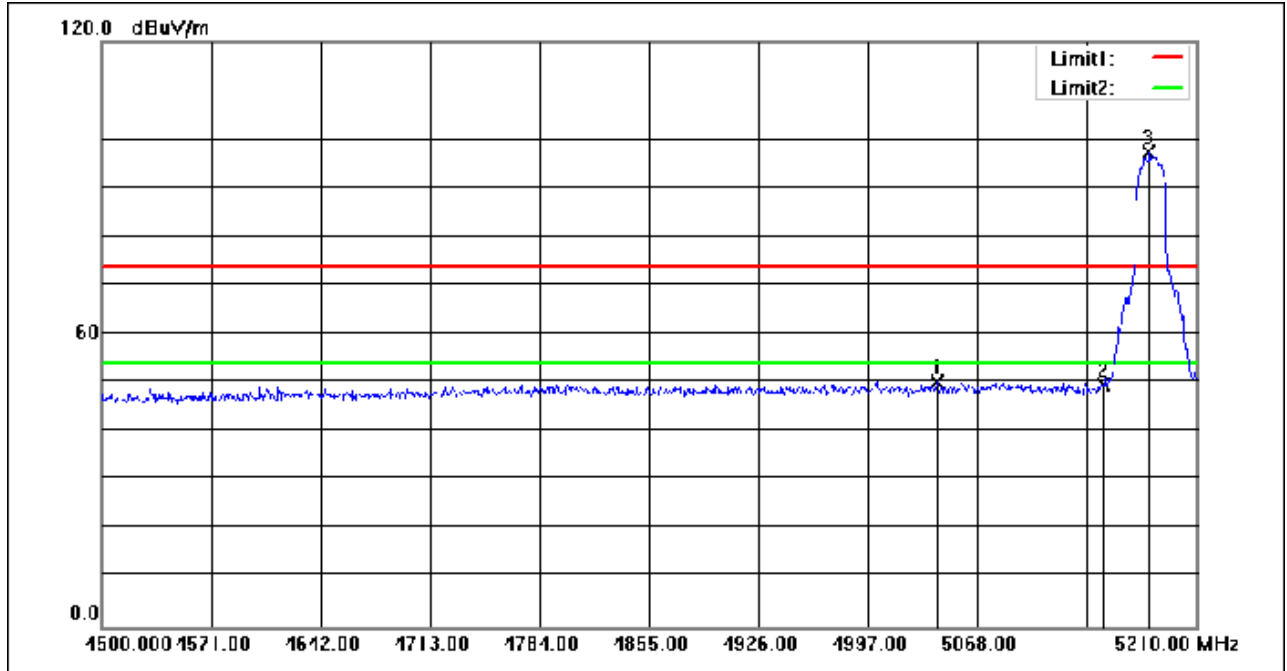
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 163 of 575

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	5041.730	60.84	-10.61	50.23	74.00	-23.77	peak
2	5150.000	60.29	-10.64	49.65	74.00	-24.35	peak
3	5179.470	108.01	-10.64	97.37	74.00	23.37	peak



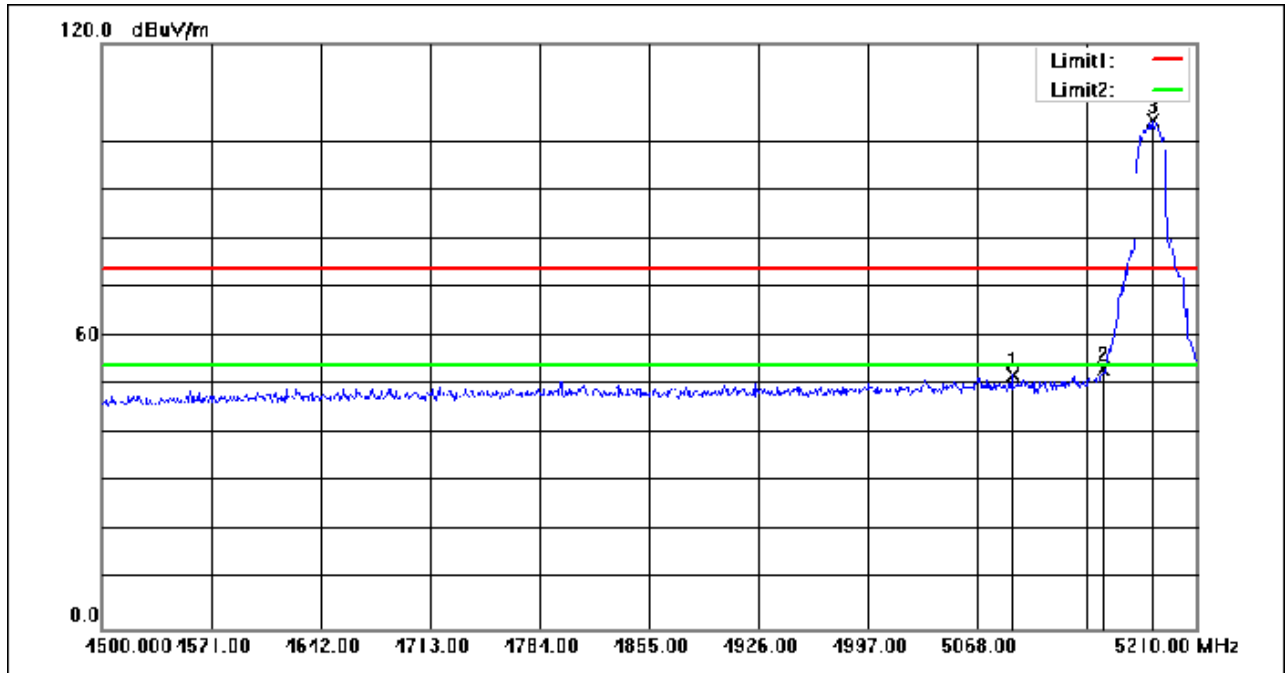
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5090.720	62.81	-10.63	52.18	74.00	-21.82	peak
2	5150.000	63.94	-10.64	53.30	74.00	-20.70	peak
3	5181.600	114.81	-10.64	104.17	74.00	30.17	peak



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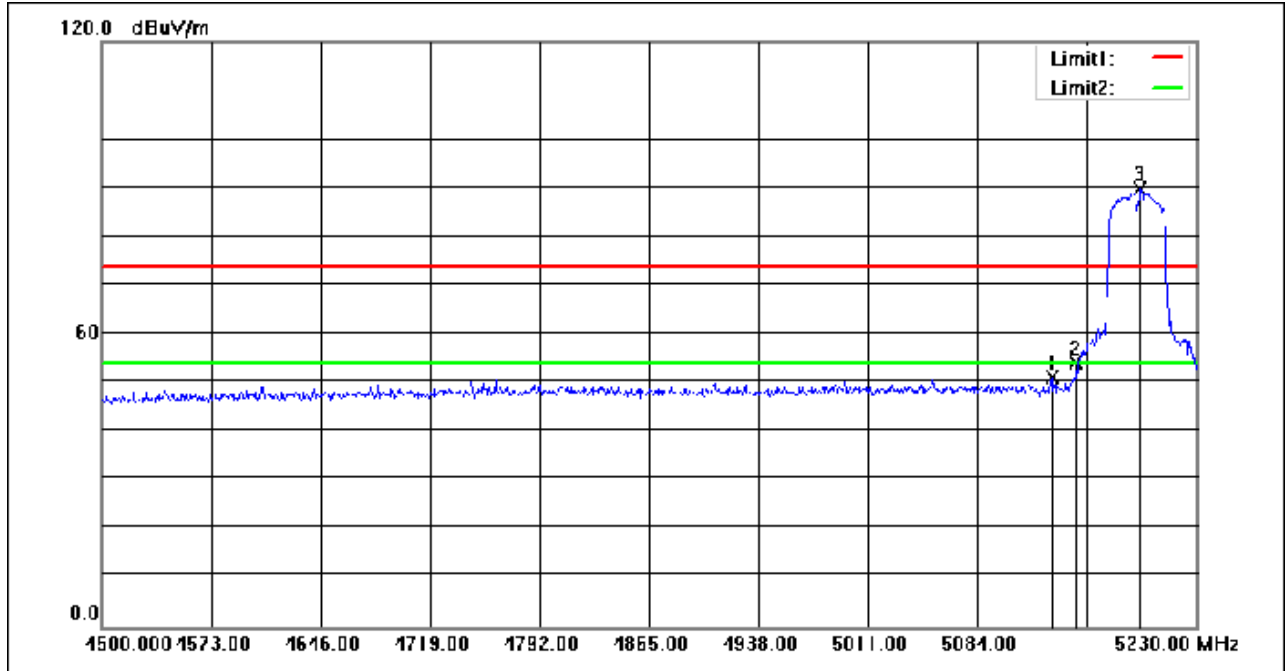


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 165 of 575

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	5133.640	61.75	-10.64	51.11	74.00	-22.89	peak
2	5150.000	64.93	-10.64	54.29	74.00	-19.71	peak
3	5192.770	100.43	-10.65	89.78	74.00	15.78	peak



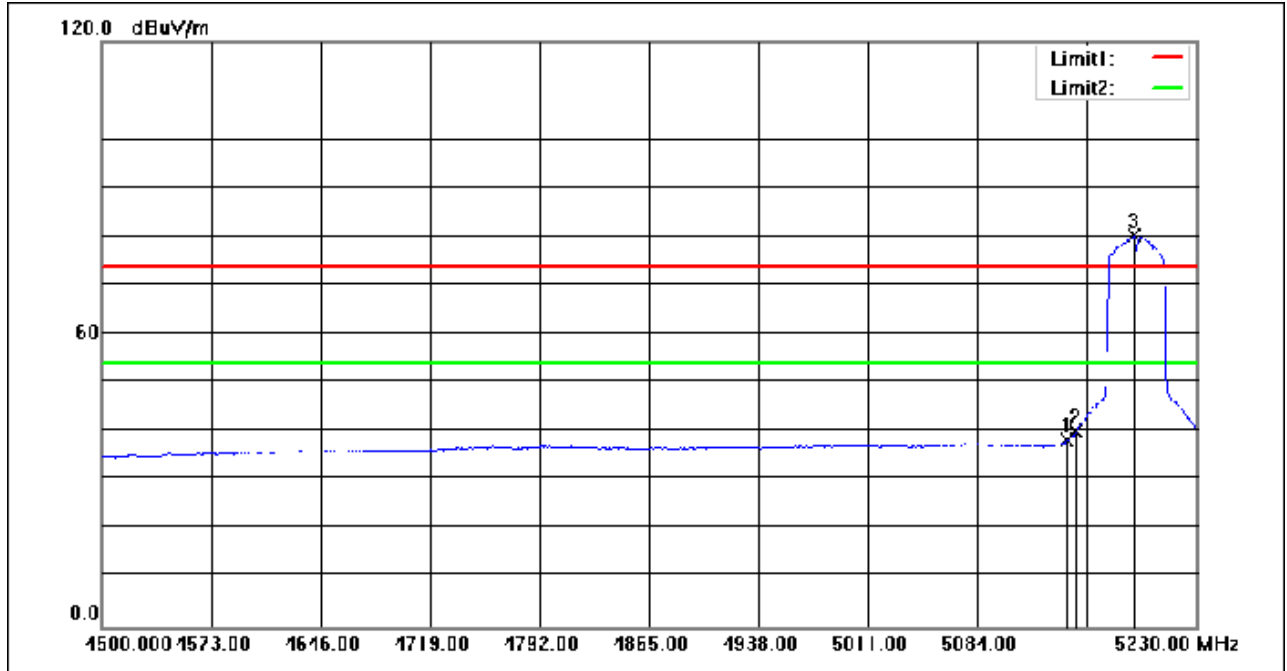
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	48.79	-10.64	38.15	54.00	-15.85	AVG
2	5150.000	50.76	-10.64	40.12	54.00	-13.88	AVG
3	5188.390	90.86	-10.65	80.21	54.00	26.21	AVG



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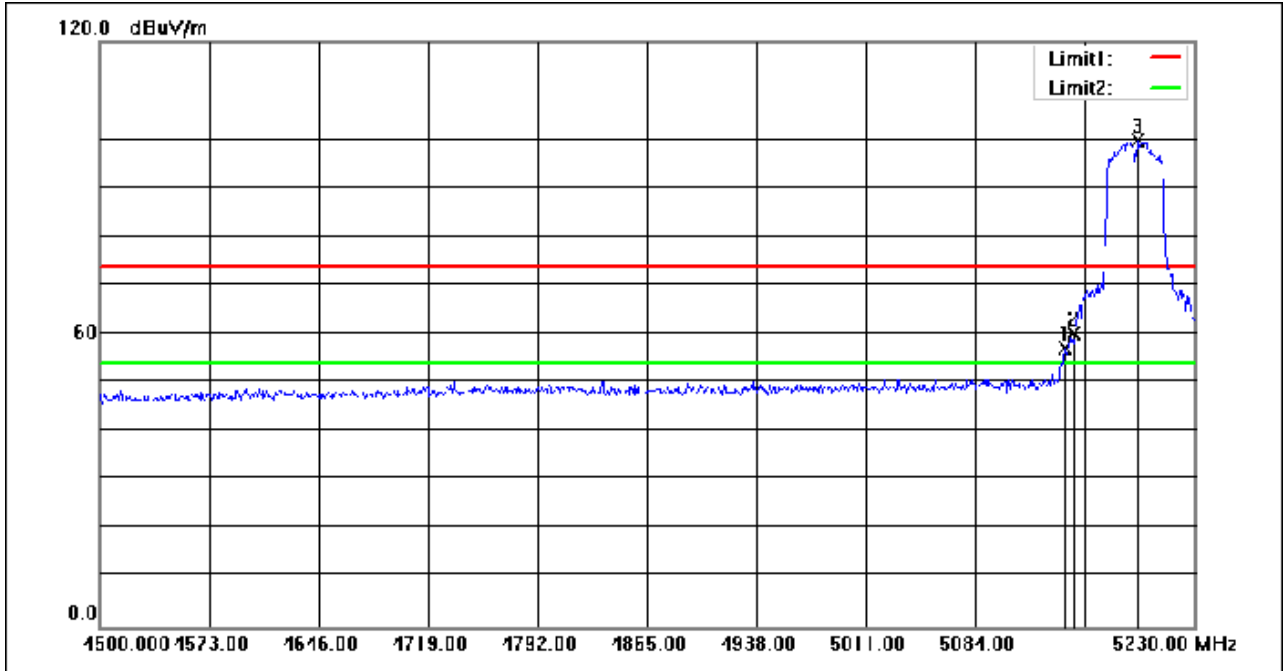
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 167 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	67.77	-10.64	57.13	74.00	-16.87	peak
2	5150.000	70.85	-10.64	60.21	74.00	-13.79	peak
3	5192.770	110.40	-10.65	99.75	74.00	25.75	peak



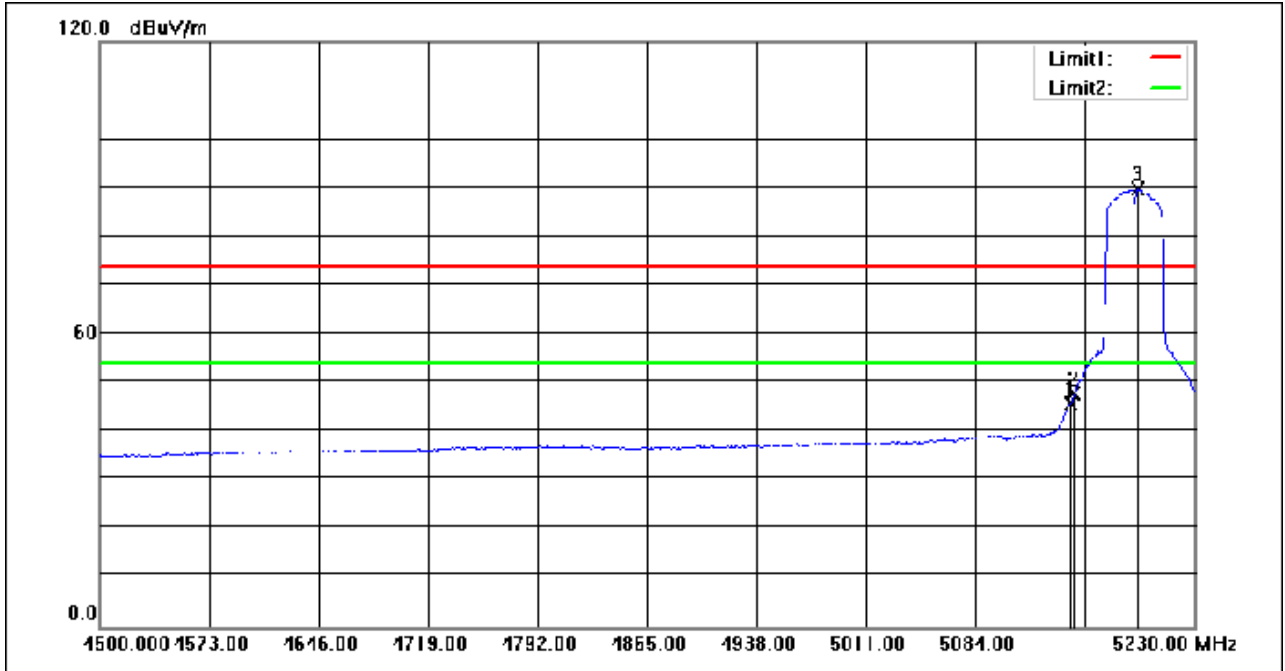
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.510	56.47	-10.64	45.83	54.00	-8.17	AVG
2	5150.000	58.59	-10.64	47.95	54.00	-6.05	AVG
3	5192.040	100.64	-10.65	89.99	54.00	35.99	AVG



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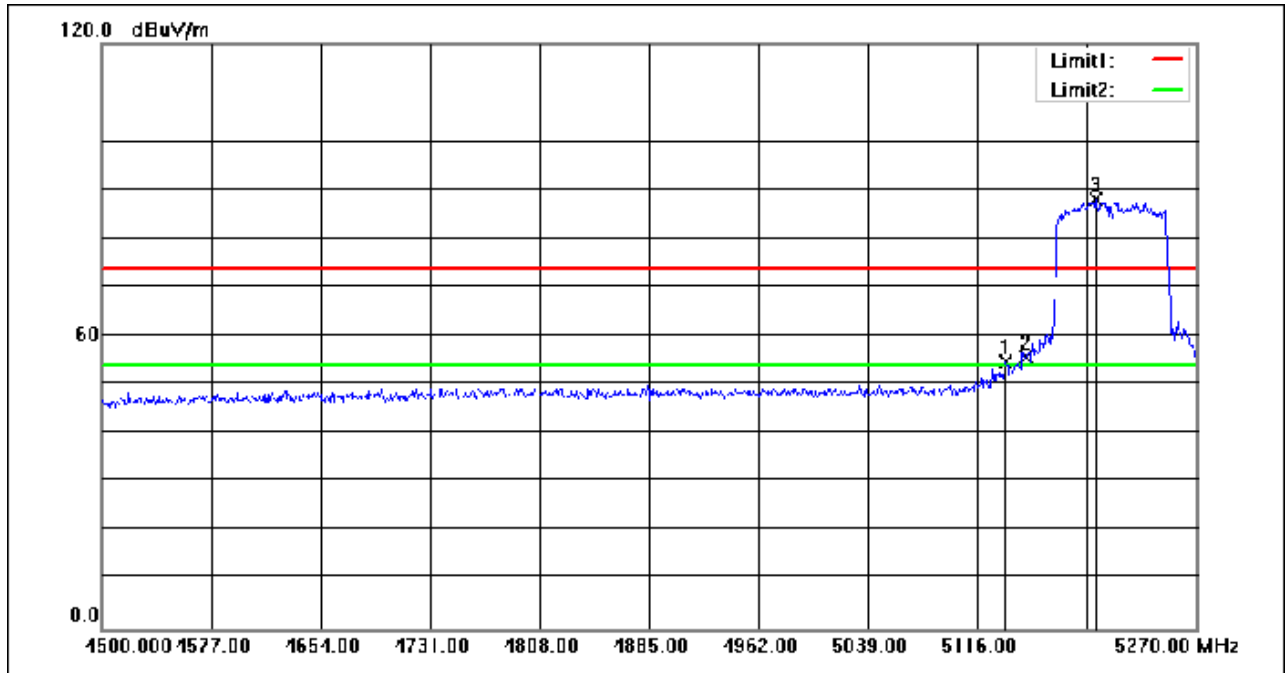


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 169 of 575

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	5136.020	65.31	-10.64	54.67	74.00	-19.33	peak
2	5150.000	66.25	-10.64	55.61	74.00	-18.39	peak
3	5199.160	98.60	-10.65	87.95	74.00	13.95	peak



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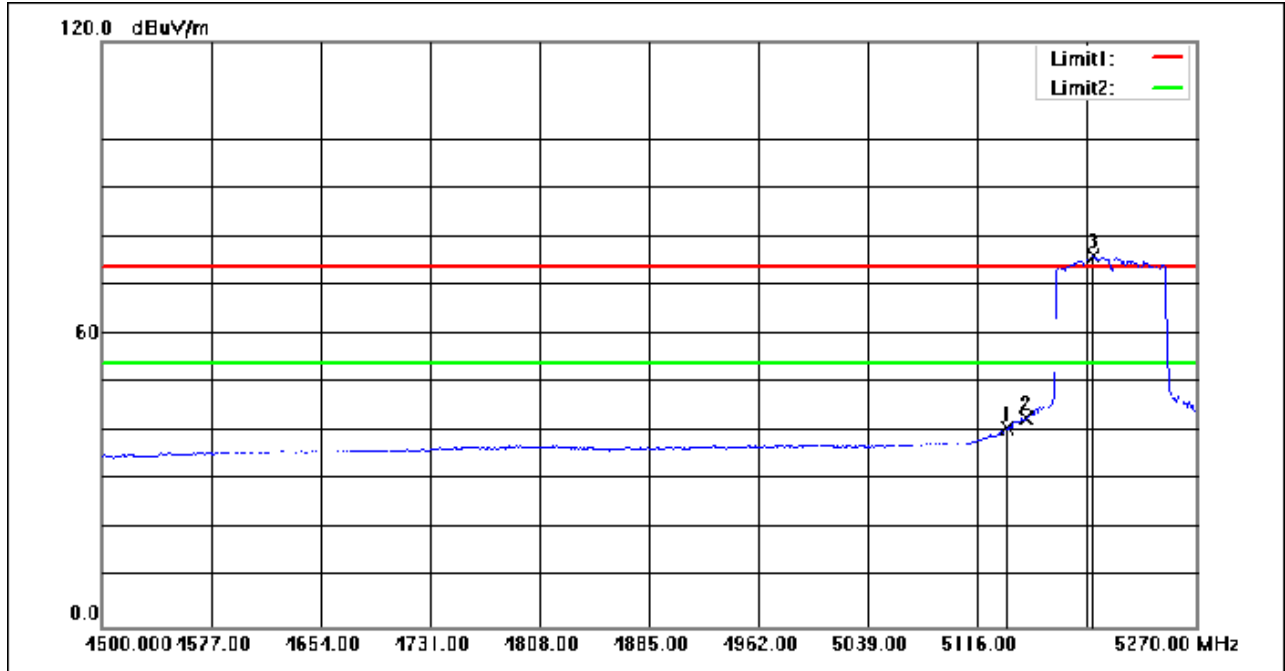
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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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	5136.790	51.30	-10.64	40.66	54.00	-13.34	AVG
2	5150.000	53.39	-10.64	42.75	54.00	-11.25	AVG
3	5197.620	86.59	-10.65	75.94	54.00	21.94	AVG



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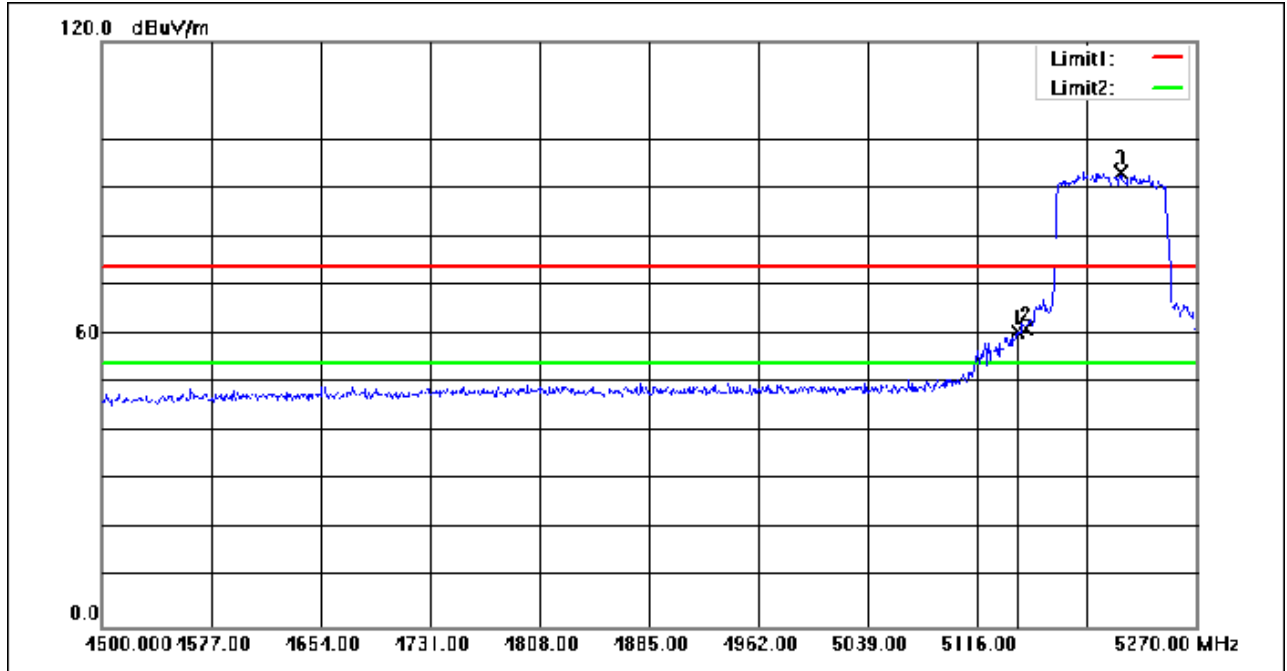
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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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	5143.720	71.02	-10.64	60.38	74.00	-13.62	peak
2	5150.000	71.65	-10.64	61.01	74.00	-12.99	peak
3	5216.870	103.63	-10.57	93.06	74.00	19.06	peak



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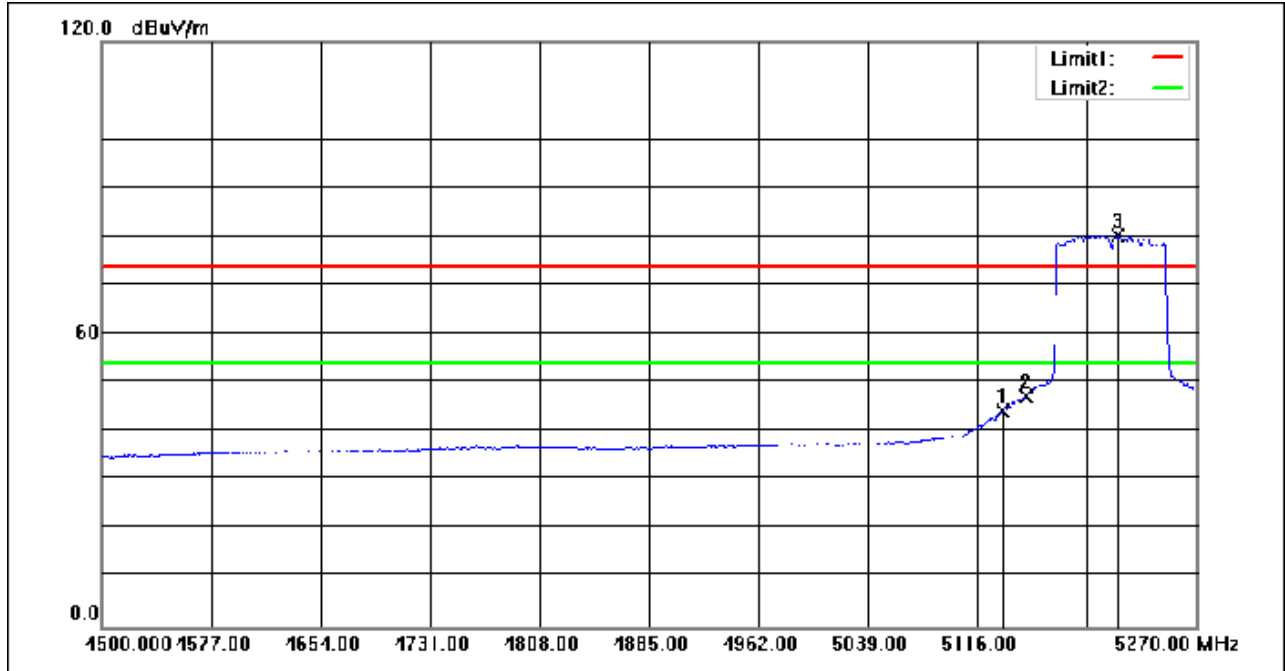
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 172 of 575

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	5133.710	54.92	-10.64	44.28	54.00	-9.72	AVG
2	5150.000	57.98	-10.64	47.34	54.00	-6.66	AVG
3	5215.330	90.78	-10.57	80.21	54.00	26.21	AVG



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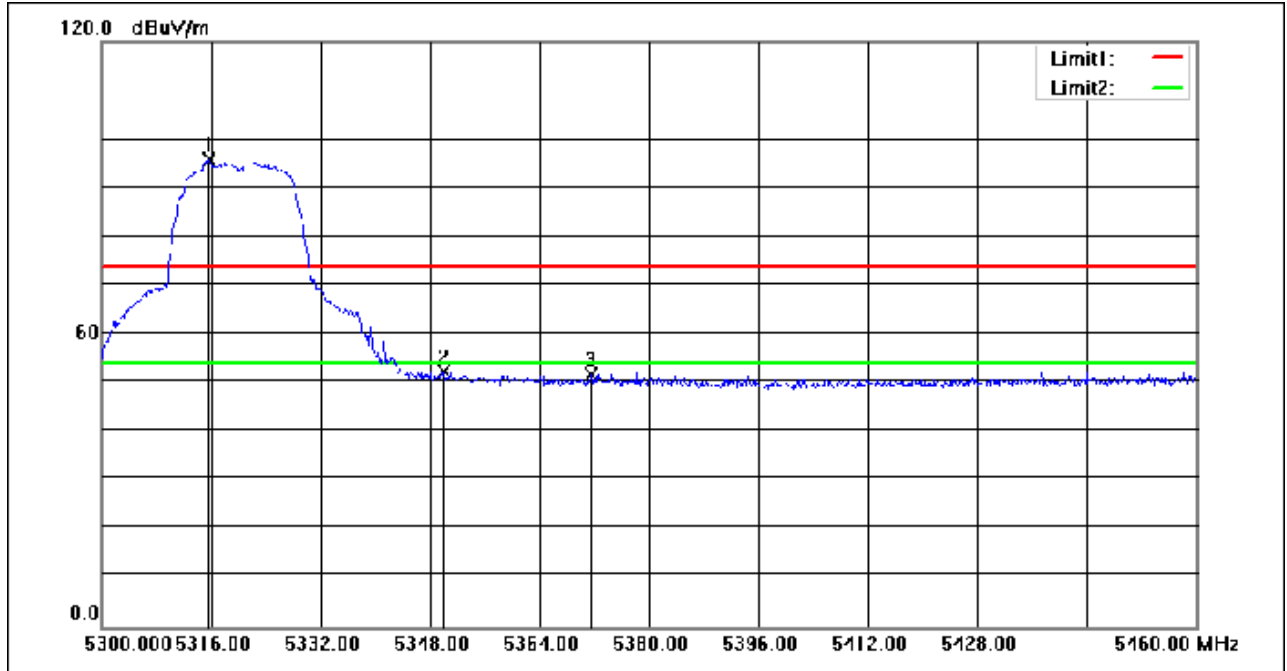
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5315.680	105.82	-10.10	95.72	74.00	21.72	peak
2	5350.000	62.34	-9.94	52.40	74.00	-21.60	peak
3	5371.520	61.68	-9.84	51.84	74.00	-22.16	peak



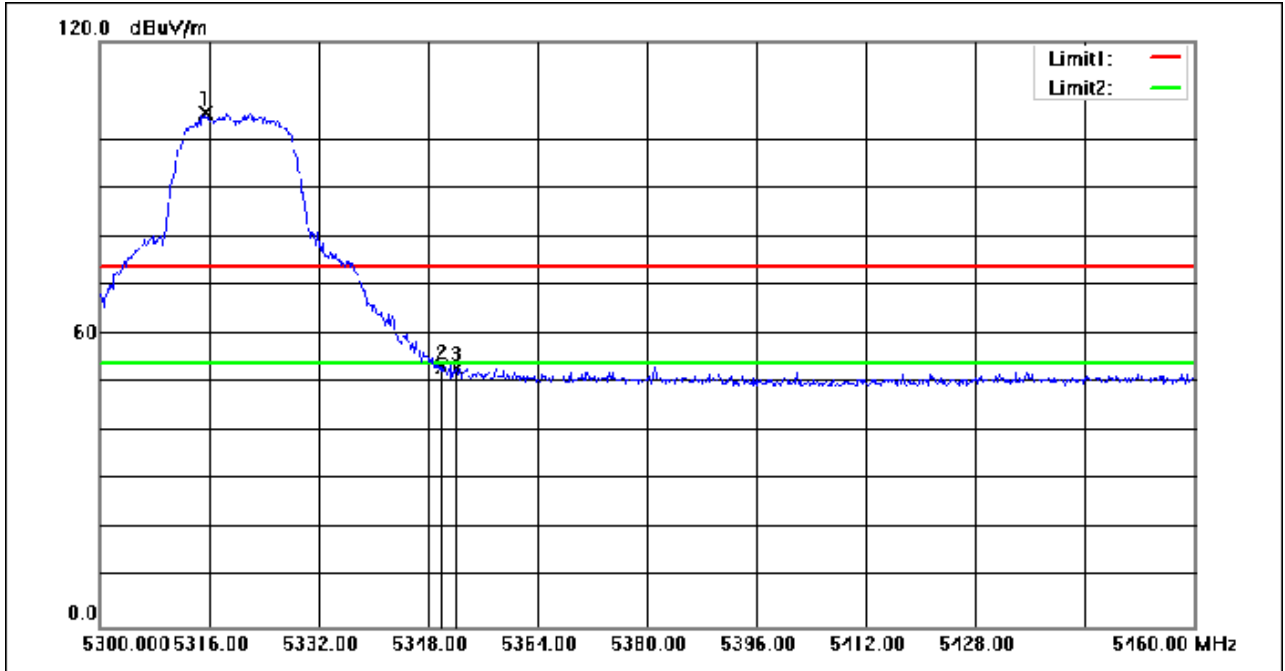
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5315.360	115.57	-10.10	105.47	74.00	31.47	peak
2	5350.000	63.27	-9.94	53.33	74.00	-20.67	peak
3	5352.160	62.94	-9.93	53.01	74.00	-20.99	peak



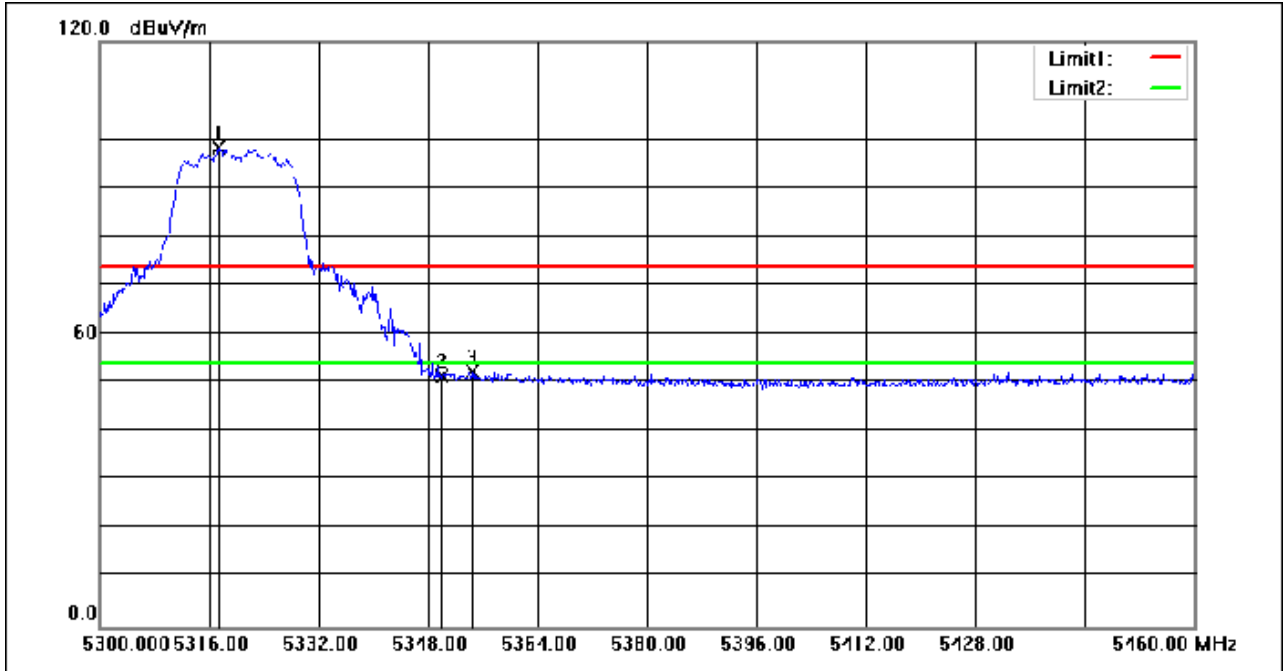
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.280	108.47	-10.09	98.38	74.00	24.38	peak
2	5350.000	61.43	-9.94	51.49	74.00	-22.51	peak
3	5354.560	62.15	-9.91	52.24	74.00	-21.76	peak

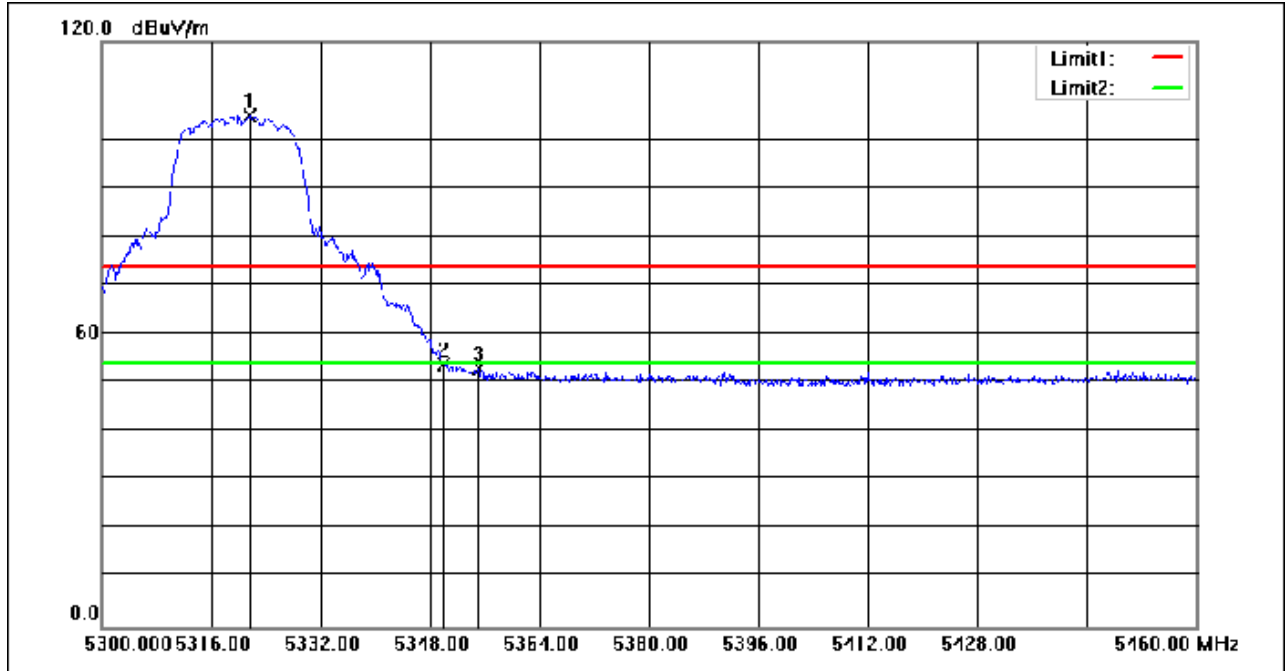


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.600	114.86	-10.07	104.79	74.00	30.79	peak
2	5350.000	63.68	-9.94	53.74	74.00	-20.26	peak
3	5355.200	62.95	-9.91	53.04	74.00	-20.96	peak



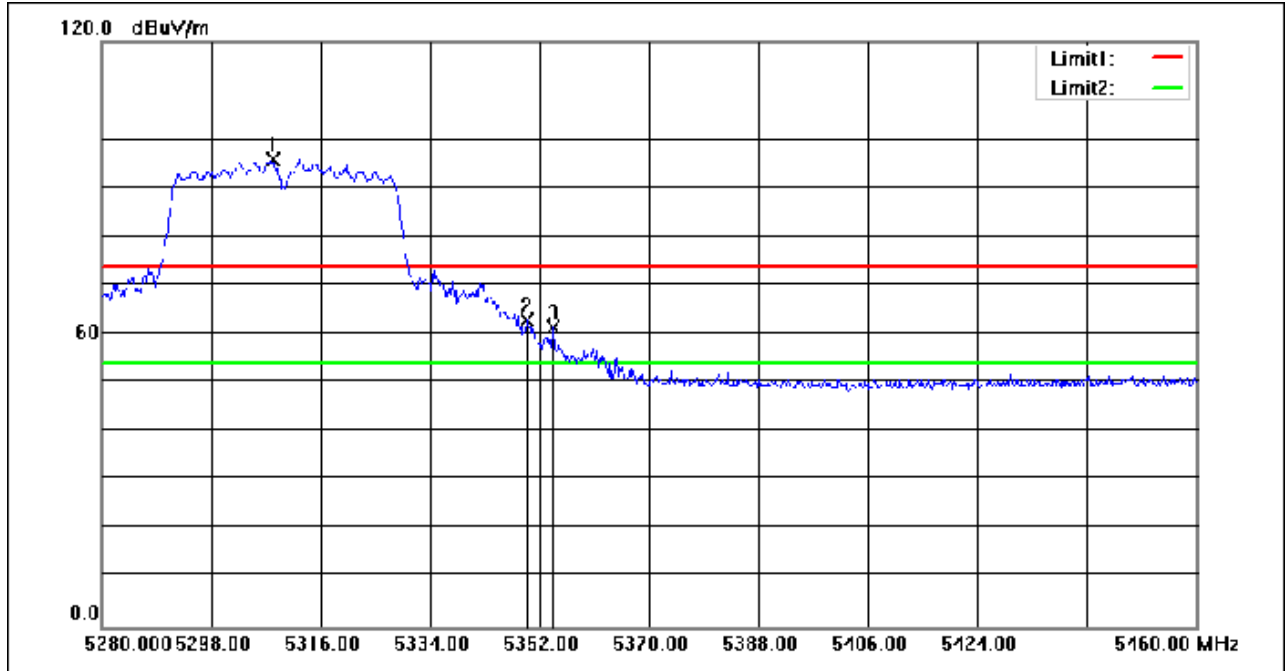
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5308.260	105.89	-10.13	95.76	74.00	21.76	peak
2	5350.000	72.67	-9.94	62.73	74.00	-11.27	peak
3	5354.340	71.13	-9.92	61.21	74.00	-12.79	peak

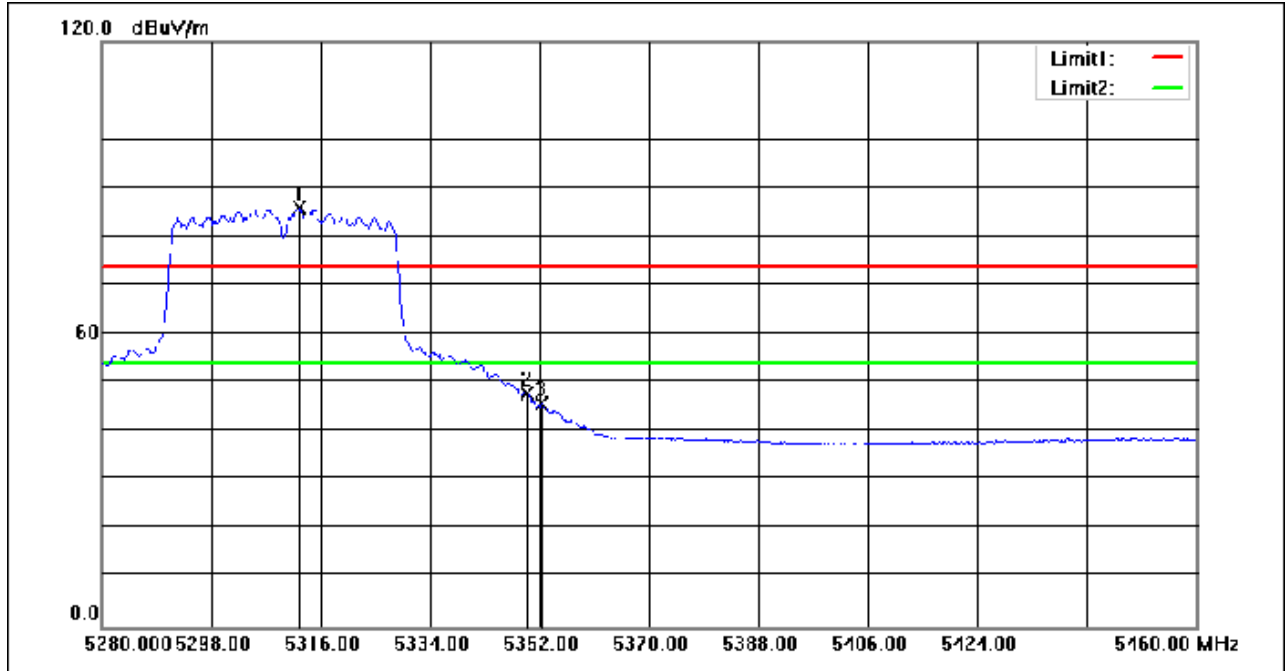


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5312.400	95.95	-10.11	85.84	54.00	31.84	AVG
2	5350.000	57.91	-9.94	47.97	54.00	-6.03	AVG
3	5352.360	55.55	-9.93	45.62	54.00	-8.38	AVG



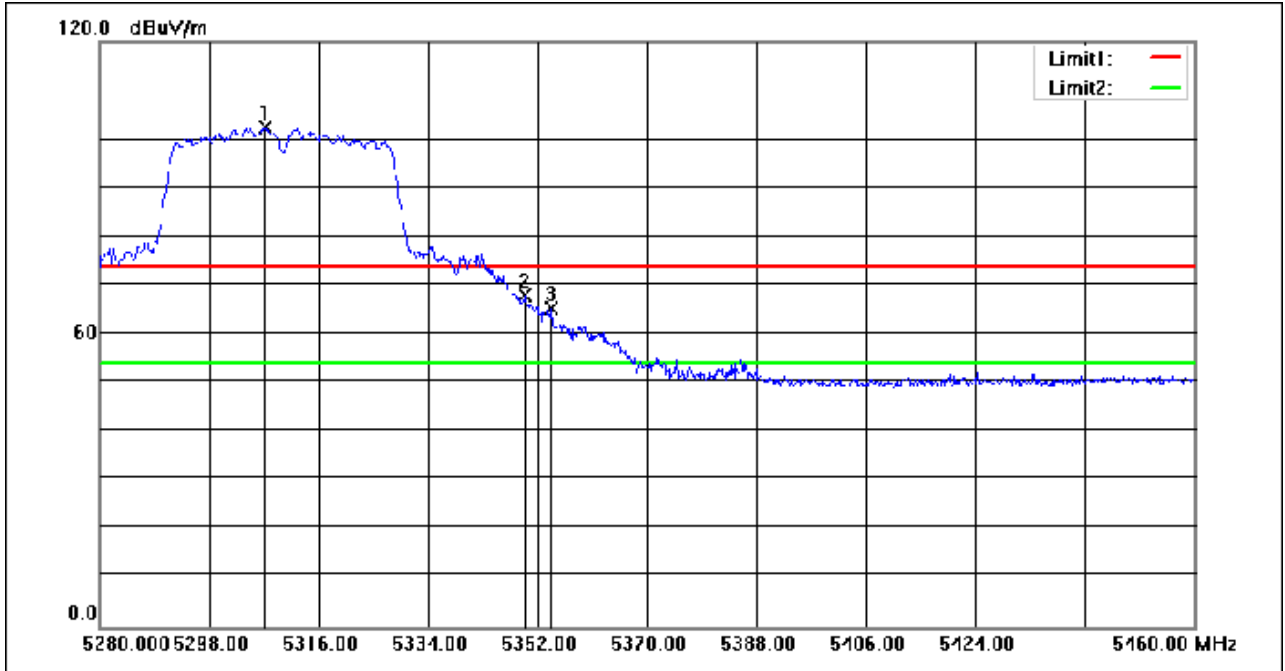
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5307.180	112.48	-10.14	102.34	74.00	28.34	peak
2	5350.000	77.80	-9.94	67.86	74.00	-6.14	peak
3	5354.340	75.13	-9.92	65.21	74.00	-8.79	peak



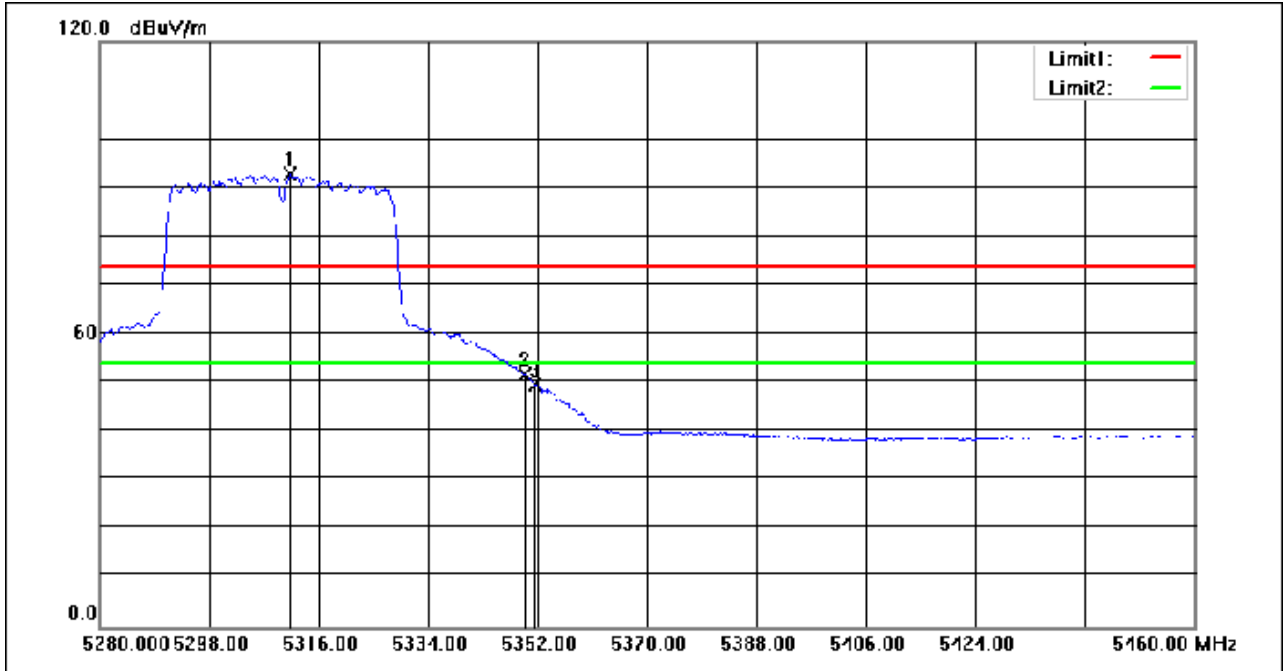
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5311.320	102.84	-10.12	92.72	54.00	38.72	AVG
2	5350.000	61.69	-9.94	51.75	54.00	-2.25	AVG
3	5351.640	59.60	-9.93	49.67	54.00	-4.33	AVG



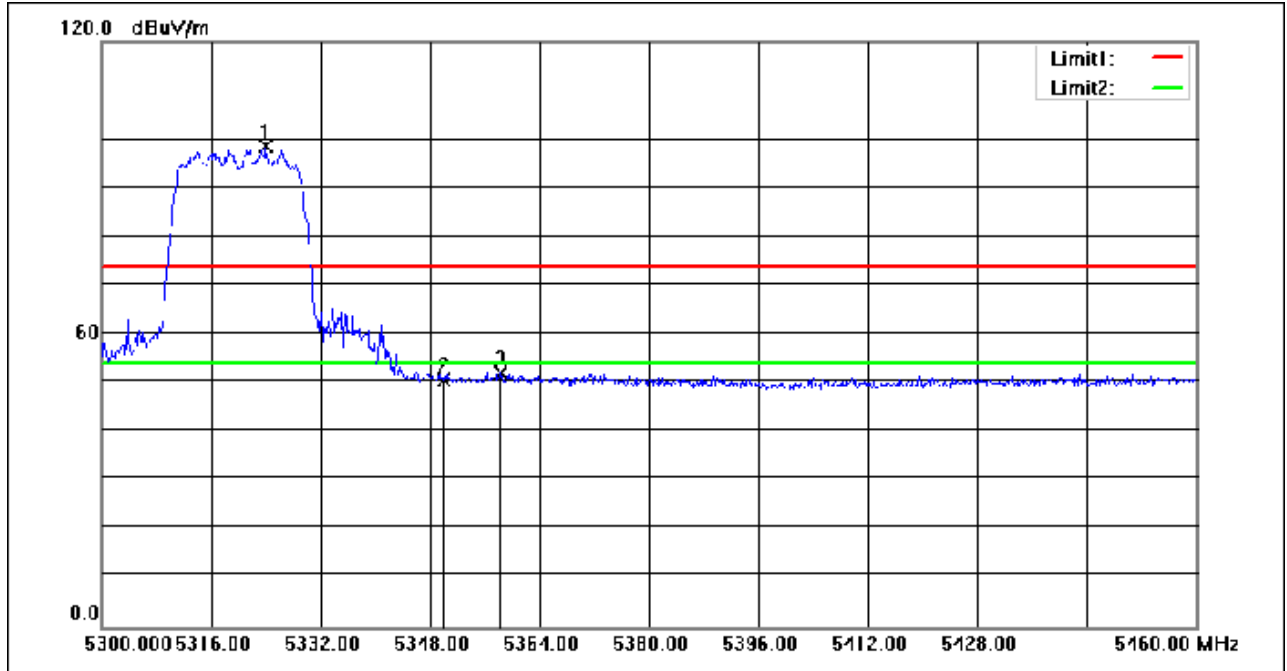
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.000	108.46	-10.06	98.40	74.00	24.40	peak
2	5350.000	60.49	-9.94	50.55	74.00	-23.45	peak
3	5358.240	62.09	-9.90	52.19	74.00	-21.81	peak



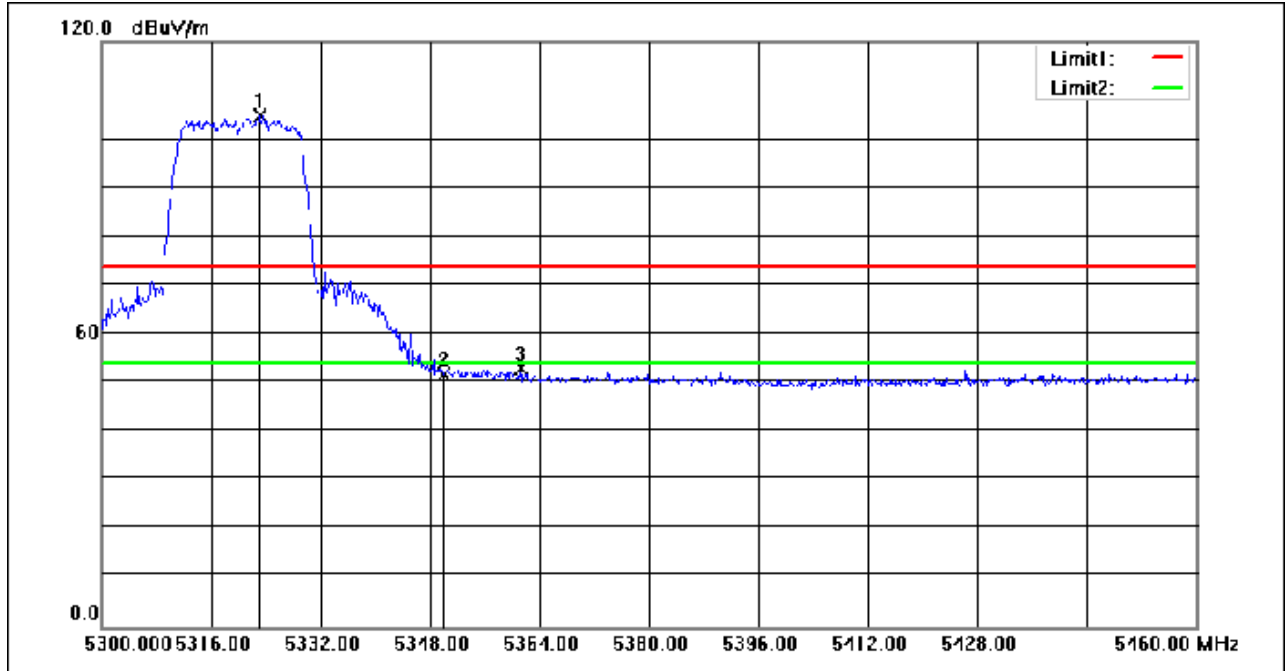
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.040	114.86	-10.07	104.79	74.00	30.79	peak
2	5350.000	61.67	-9.94	51.73	74.00	-22.27	peak
3	5361.280	62.98	-9.88	53.10	74.00	-20.90	peak



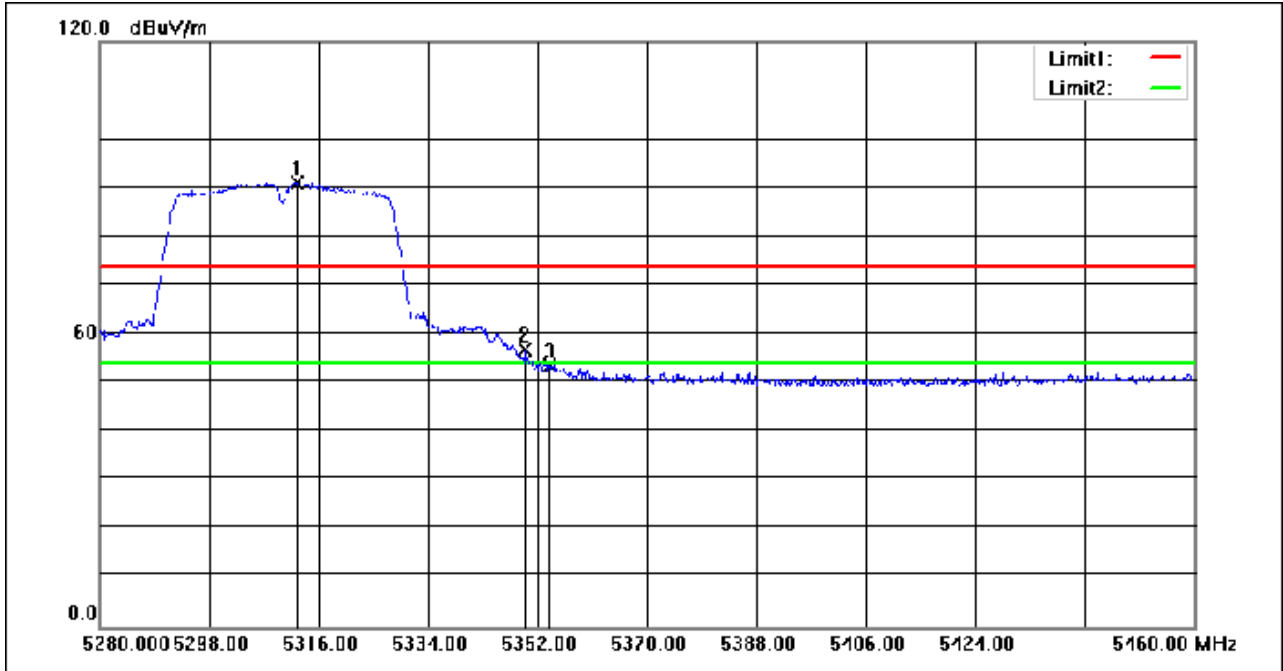
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5312.400	101.16	-10.11	91.05	74.00	17.05	peak
2	5350.000	66.93	-9.94	56.99	74.00	-17.01	peak
3	5353.980	63.58	-9.92	53.66	74.00	-20.34	peak



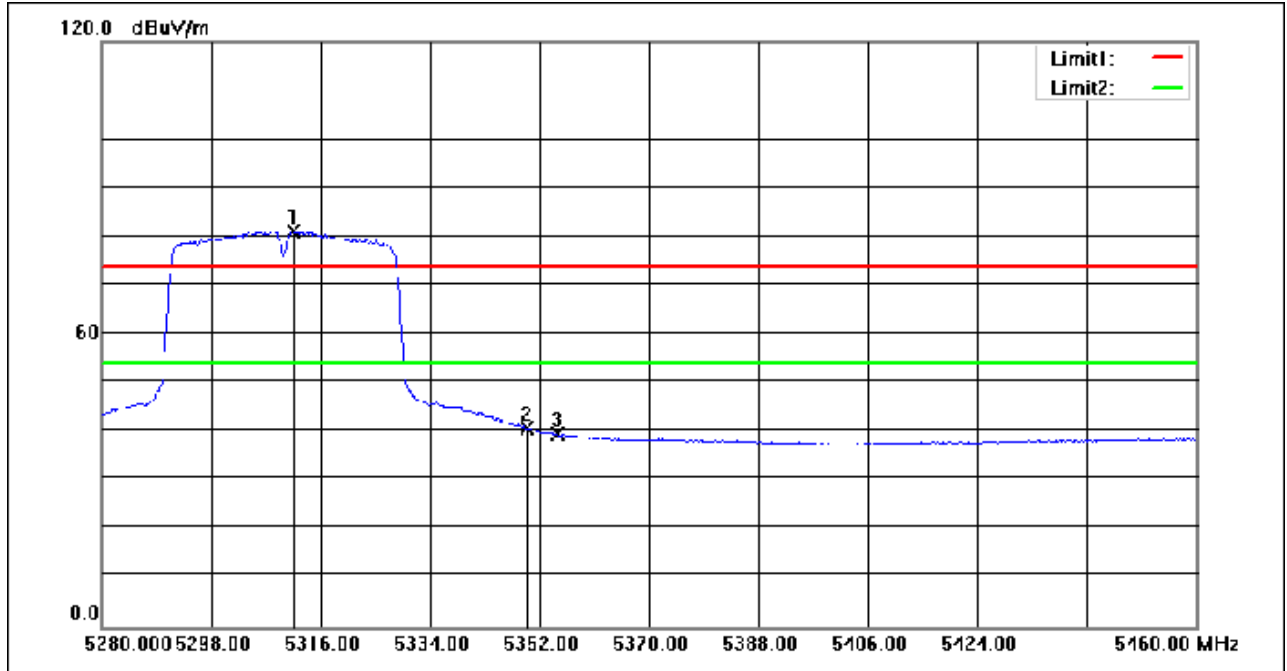
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5311.500	91.26	-10.12	81.14	54.00	27.14	AVG
2	5350.000	50.65	-9.94	40.71	54.00	-13.29	AVG
3	5355.060	49.31	-9.91	39.40	54.00	-14.60	AVG



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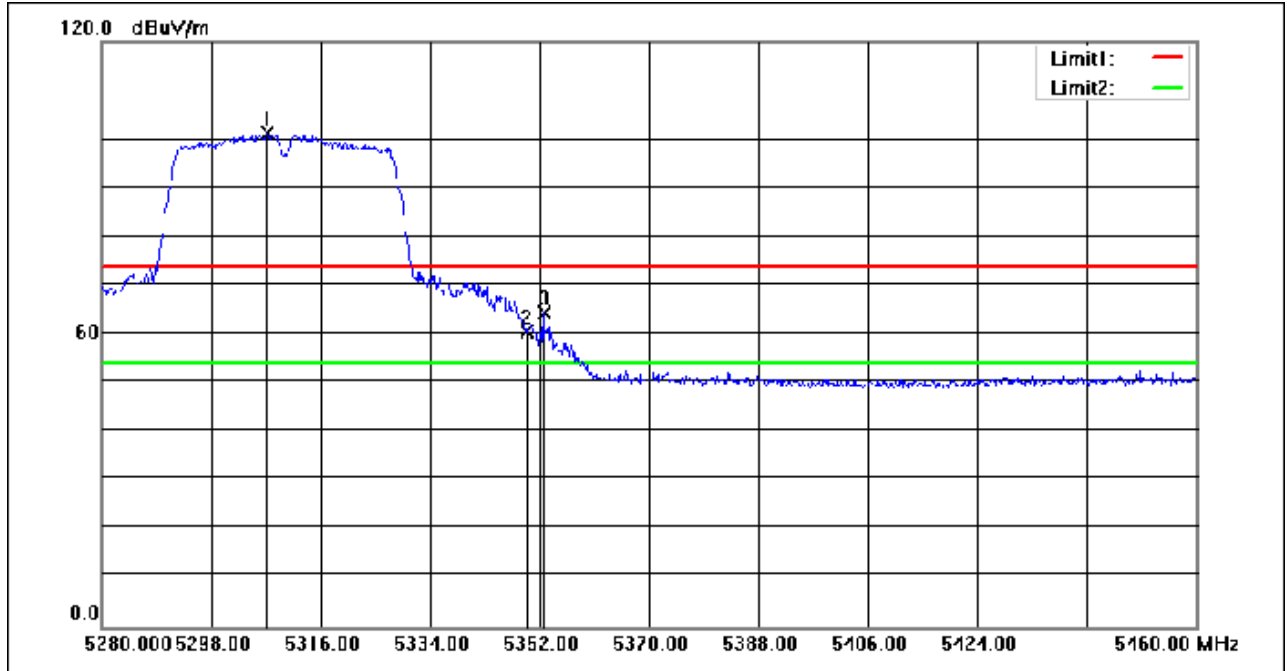
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5307.180	111.26	-10.14	101.12	74.00	27.12	peak
2	5350.000	70.25	-9.94	60.31	74.00	-13.69	peak
3	5352.720	74.31	-9.93	64.38	74.00	-9.62	peak



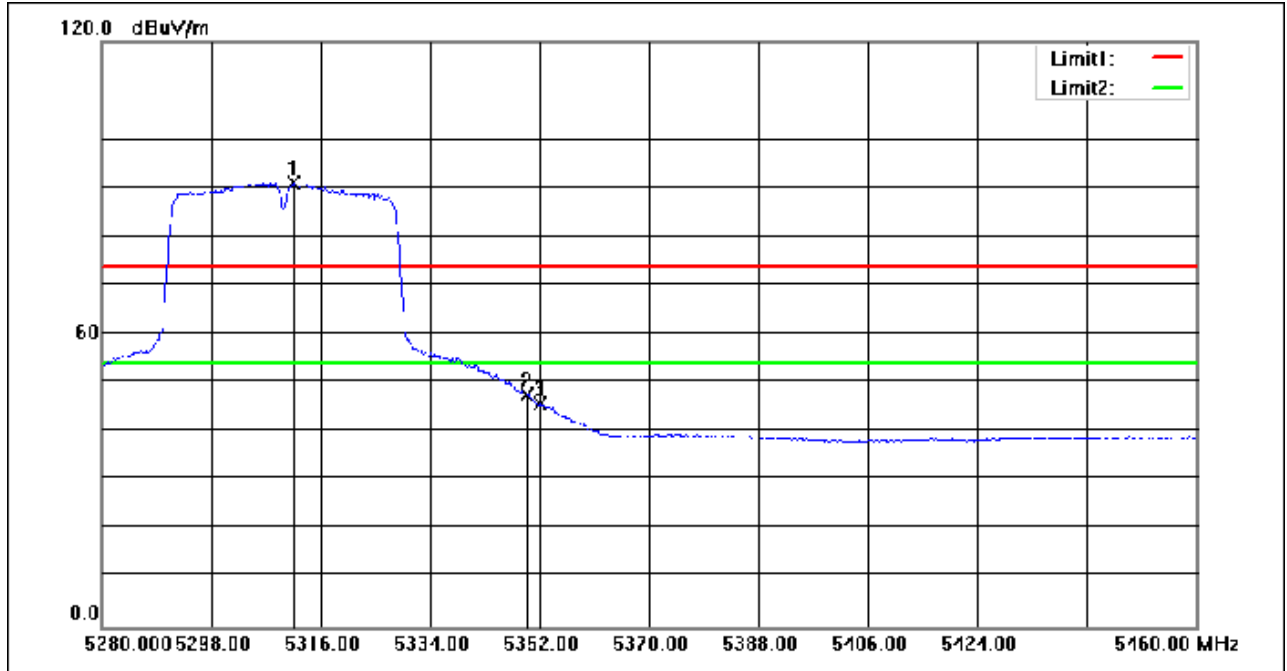
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5311.500	101.20	-10.12	91.08	54.00	37.08	AVG
2	5350.000	57.51	-9.94	47.57	54.00	-6.43	AVG
3	5352.180	55.62	-9.93	45.69	54.00	-8.31	AVG

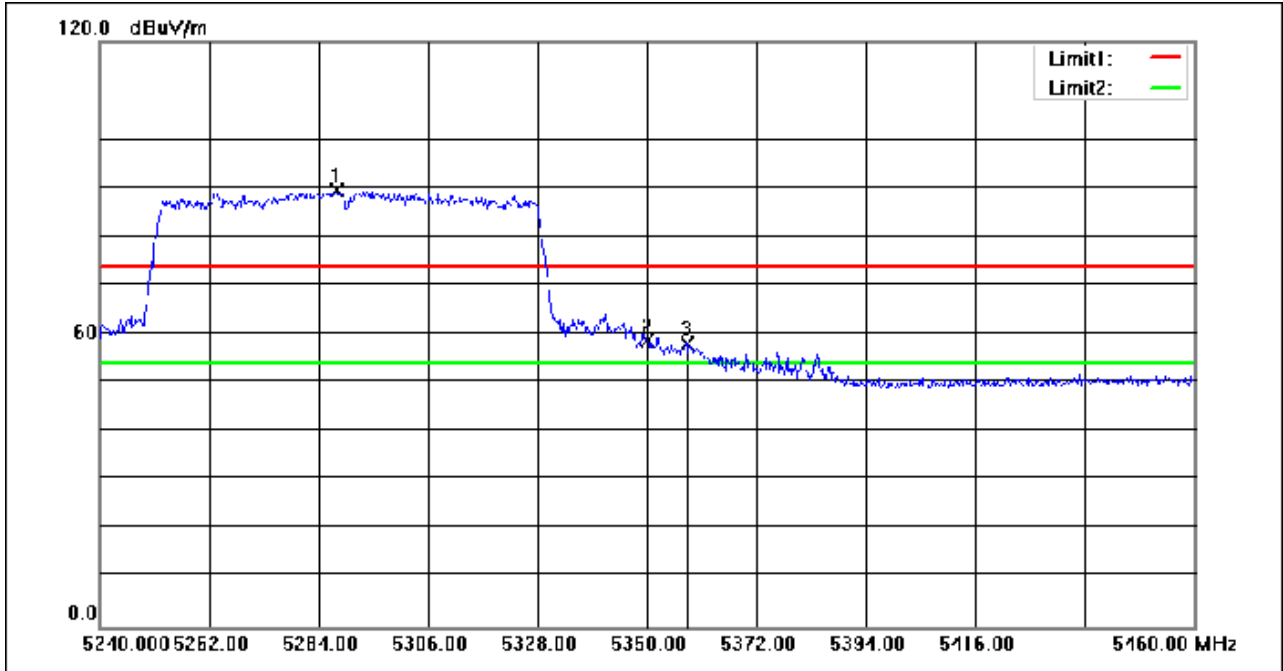


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5287.520	99.74	-10.24	89.50	74.00	15.50	peak
2	5350.000	68.60	-9.94	58.66	74.00	-15.34	peak
3	5357.920	68.09	-9.90	58.19	74.00	-15.81	peak



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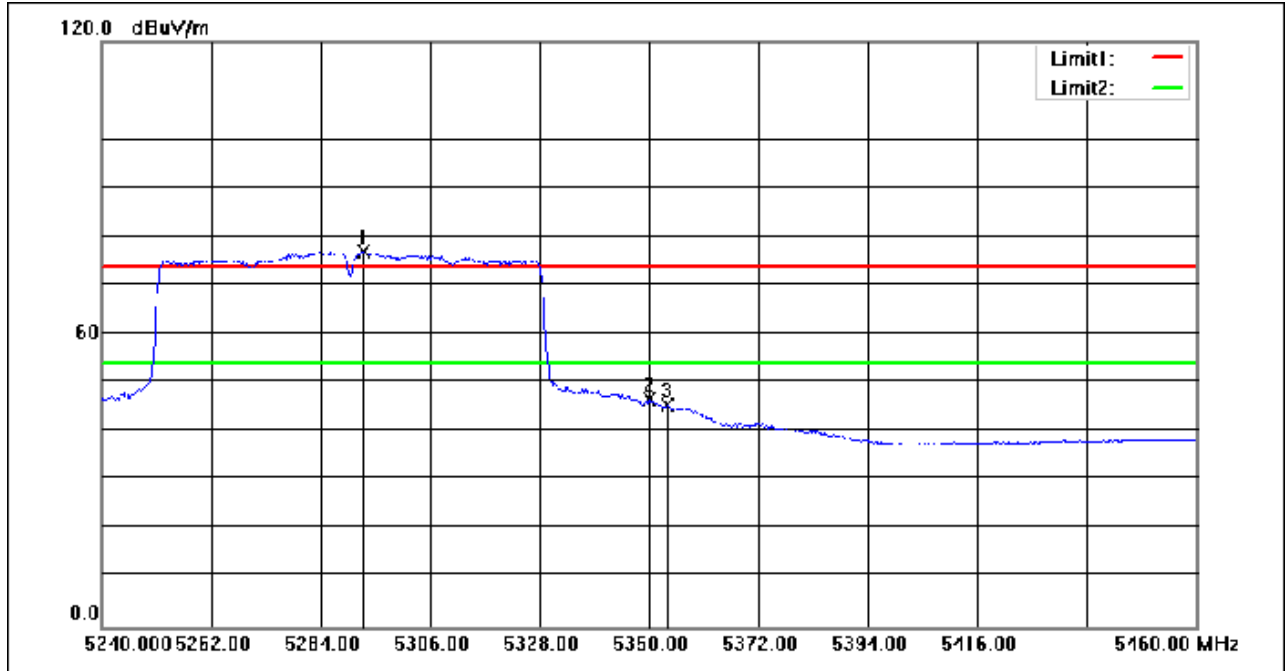
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 188 of 575

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5292.580	87.21	-10.21	77.00	54.00	23.00	AVG
2	5350.000	56.45	-9.94	46.51	54.00	-7.49	AVG
3	5353.740	55.27	-9.92	45.35	54.00	-8.65	AVG



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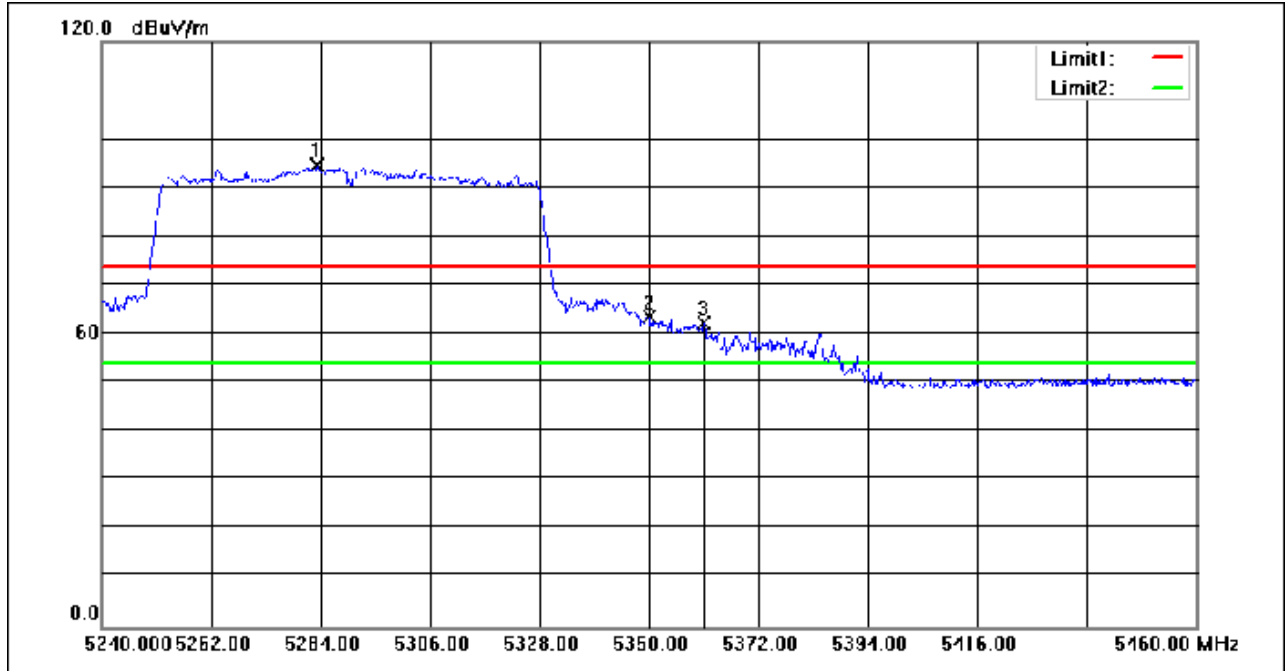
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5283.340	104.77	-10.26	94.51	74.00	20.51	peak
2	5350.000	73.36	-9.94	63.42	74.00	-10.58	peak
3	5361.000	72.23	-9.89	62.34	74.00	-11.66	peak



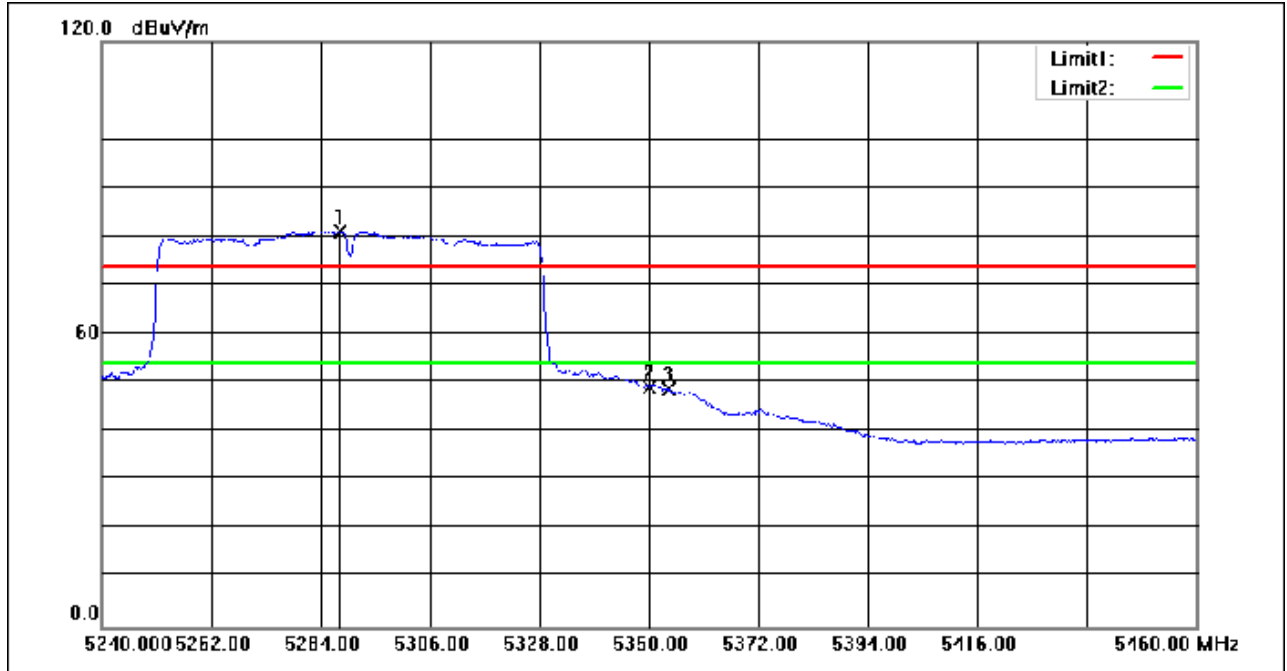
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5287.960	91.51	-10.23	81.28	54.00	27.28	AVG
2	5350.000	59.09	-9.94	49.15	54.00	-4.85	AVG
3	5353.960	58.73	-9.92	48.81	54.00	-5.19	AVG



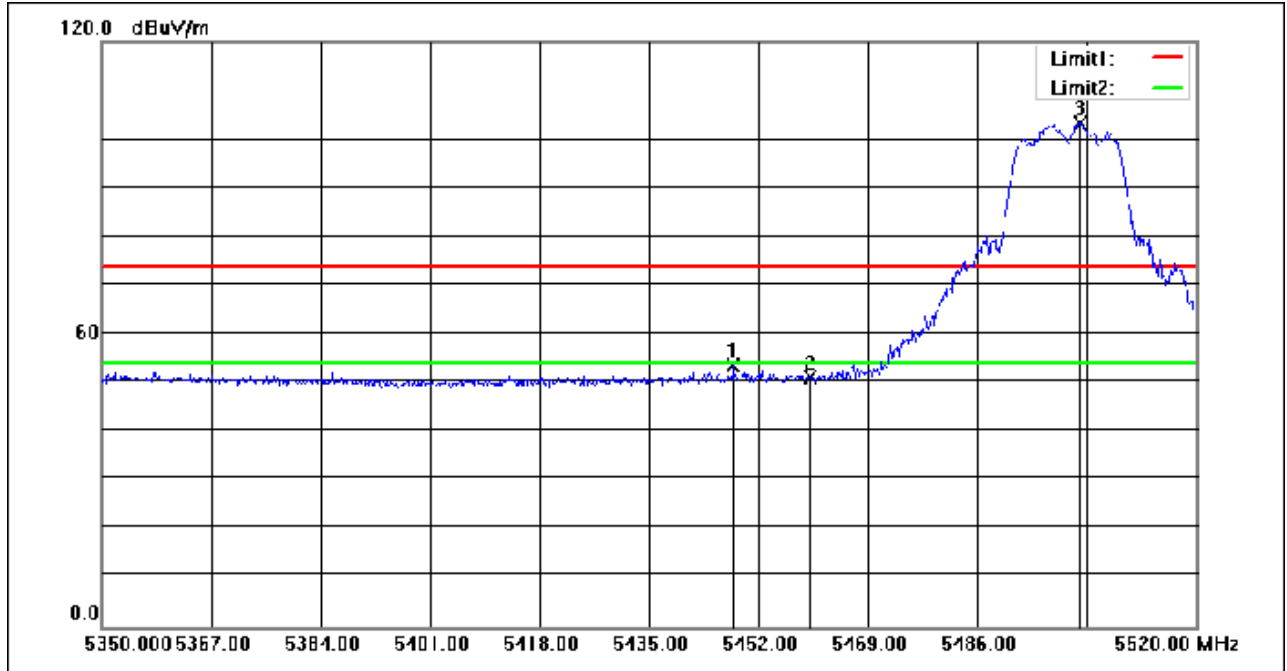
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5448.090	63.09	-9.61	53.48	74.00	-20.52	peak
2	5460.000	60.63	-9.59	51.04	74.00	-22.96	peak
3	5501.980	112.86	-9.52	103.34	74.00	29.34	peak

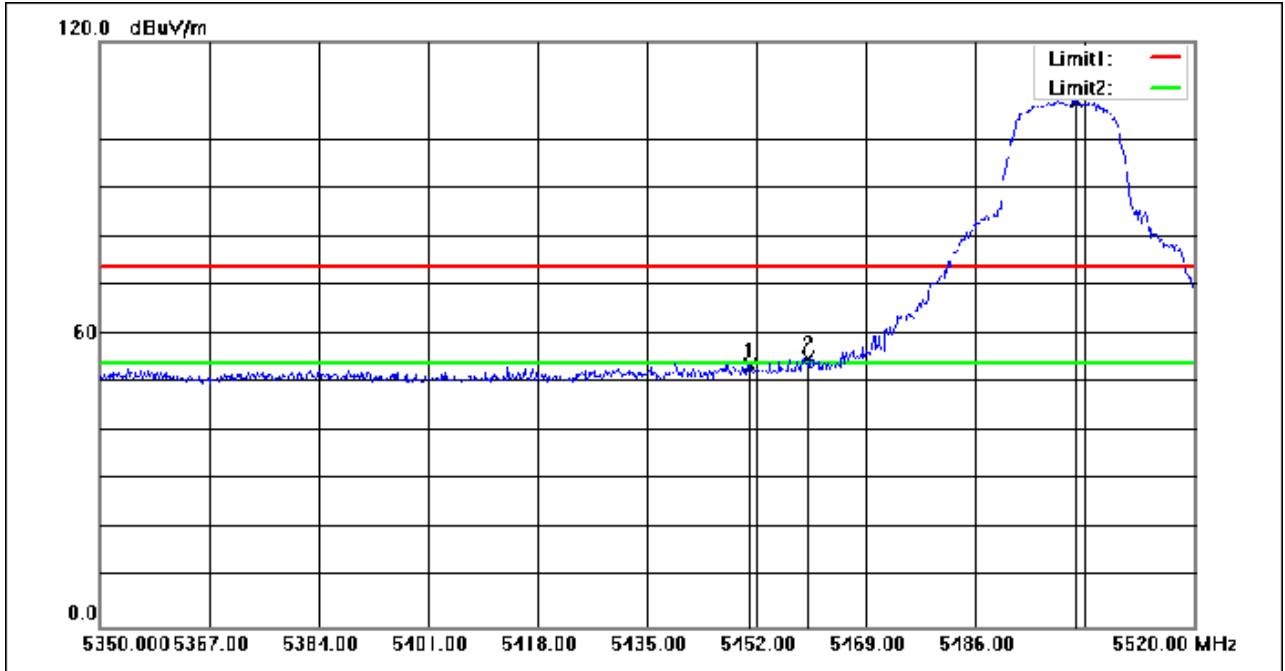


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5450.980	63.19	-9.61	53.58	74.00	-20.42	peak
2	5460.000	64.57	-9.59	54.98	74.00	-19.02	peak
3	5501.640	117.41	-9.52	107.89	74.00	33.89	peak



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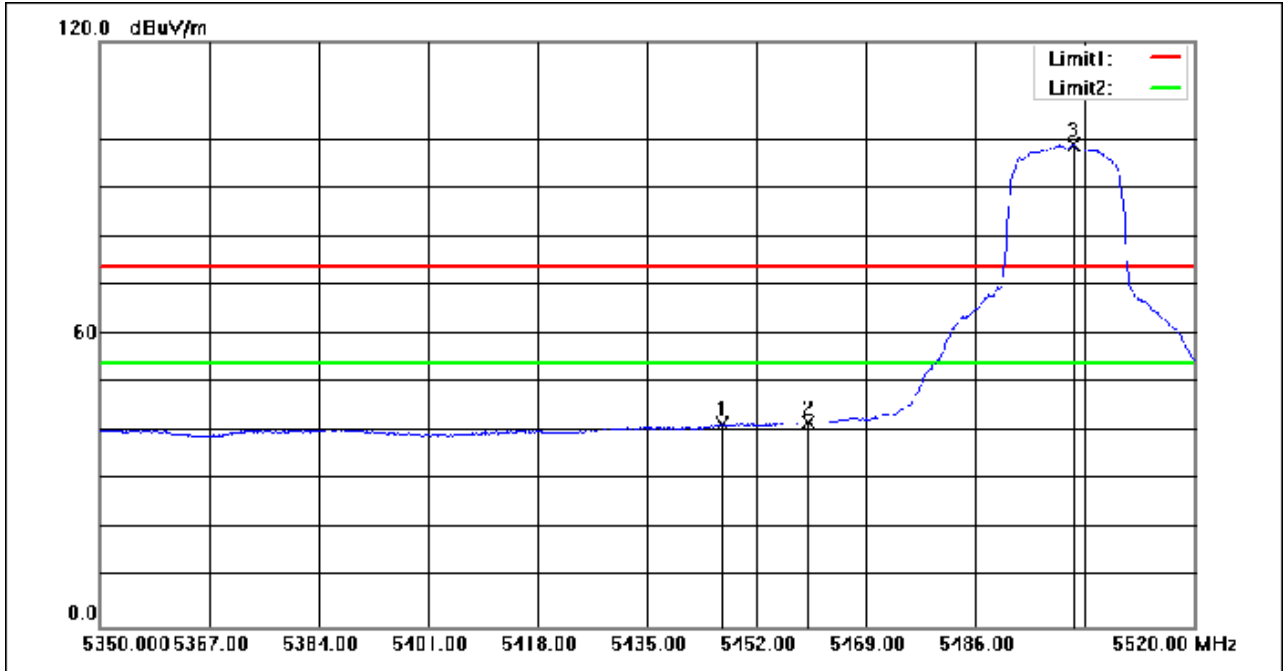
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5446.560	51.08	-9.62	41.46	54.00	-12.54	AVG
2	5460.000	51.38	-9.59	41.79	54.00	-12.21	AVG
3	5501.300	108.33	-9.52	98.81	54.00	44.81	AVG



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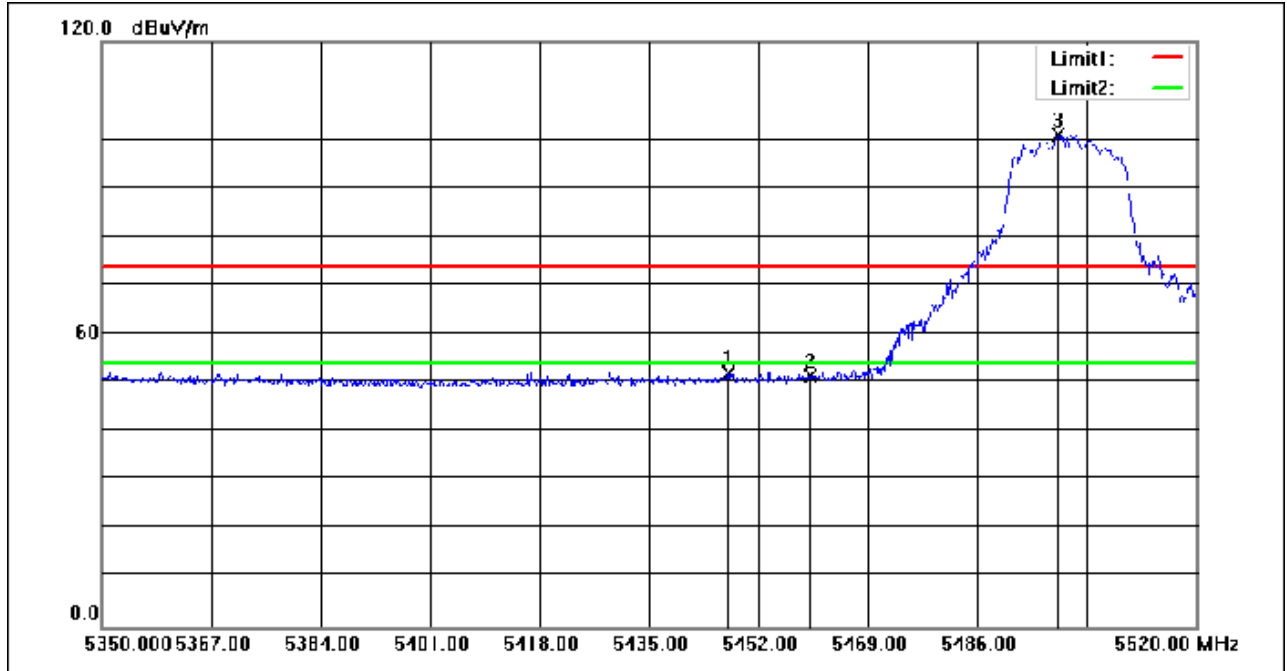
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 194 of 575

Test Mode: 03; 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	5447.410	61.55	-9.62	51.93	74.00	-22.07	peak
2	5460.000	61.01	-9.59	51.42	74.00	-22.58	peak
3	5498.580	110.46	-9.51	100.95	74.00	26.95	peak



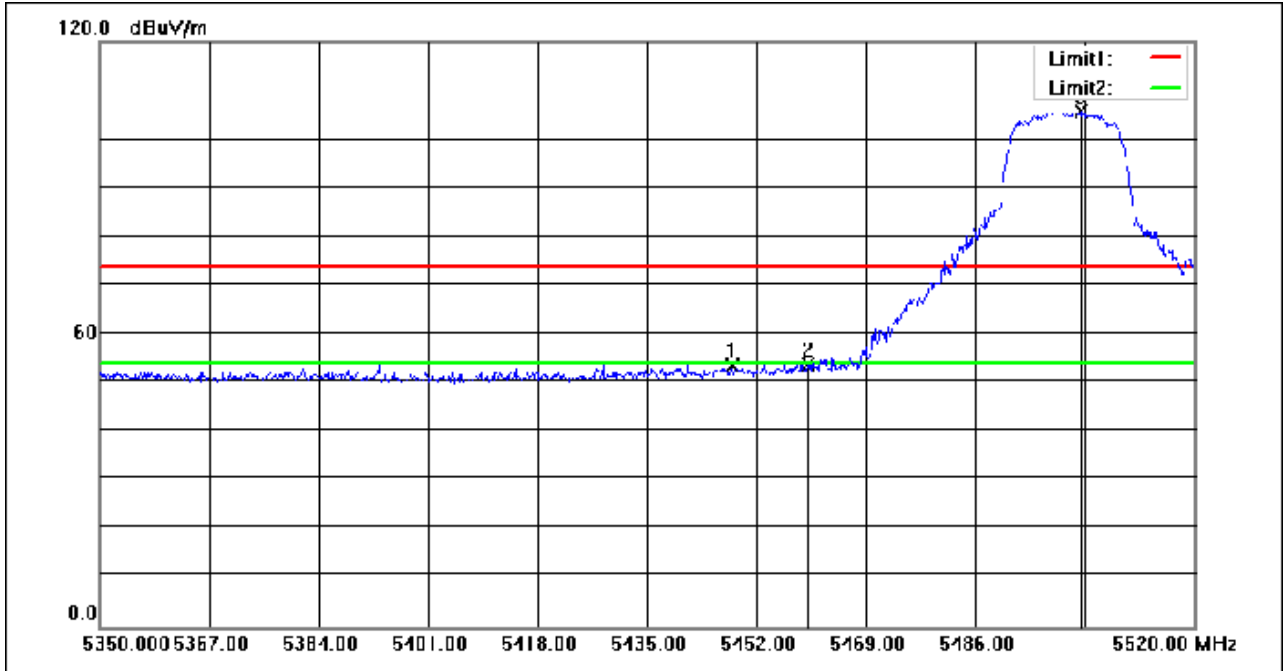
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5448.260	63.18	-9.61	53.57	74.00	-20.43	peak
2	5460.000	63.45	-9.59	53.86	74.00	-20.14	peak
3	5502.490	115.34	-9.51	105.83	74.00	31.83	peak



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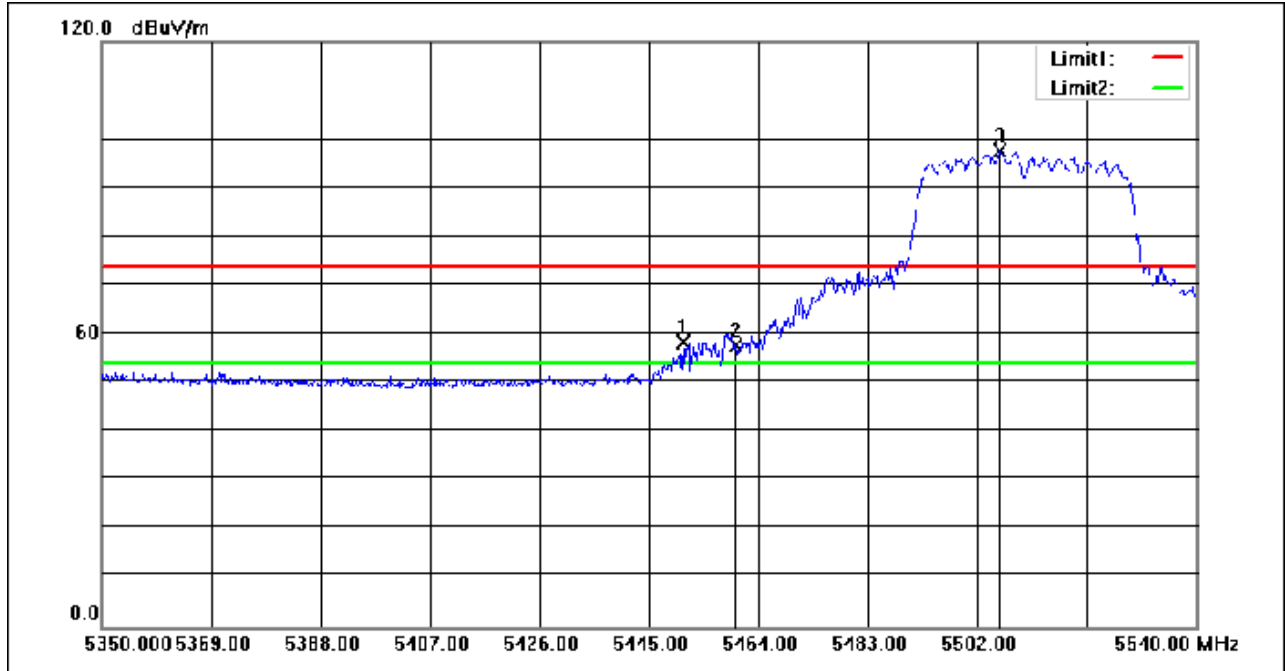
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 196 of 575

Test Mode: 03; 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	5450.890	67.96	-9.61	58.35	74.00	-15.65	peak
2	5460.000	67.20	-9.59	57.61	74.00	-16.39	peak
3	5505.800	107.08	-9.51	97.57	74.00	23.57	peak



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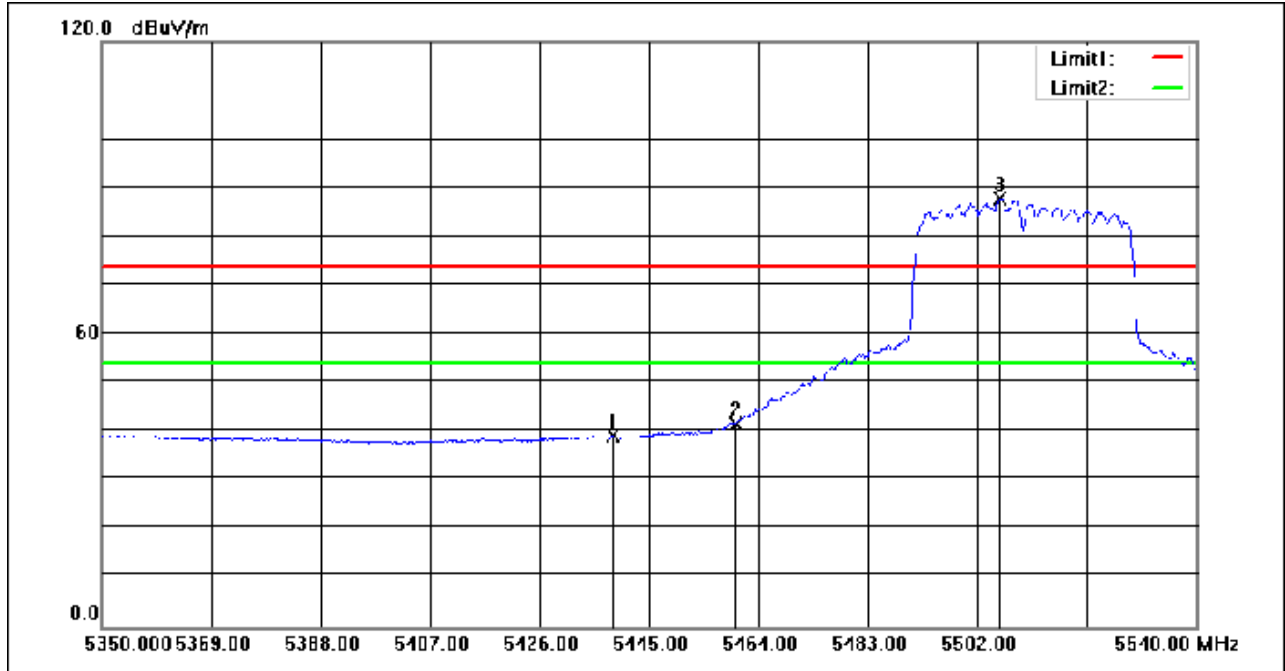
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5438.730	48.82	-9.62	39.20	54.00	-14.80	AVG
2	5460.000	51.13	-9.59	41.54	54.00	-12.46	AVG
3	5505.990	97.36	-9.51	87.85	54.00	33.85	AVG



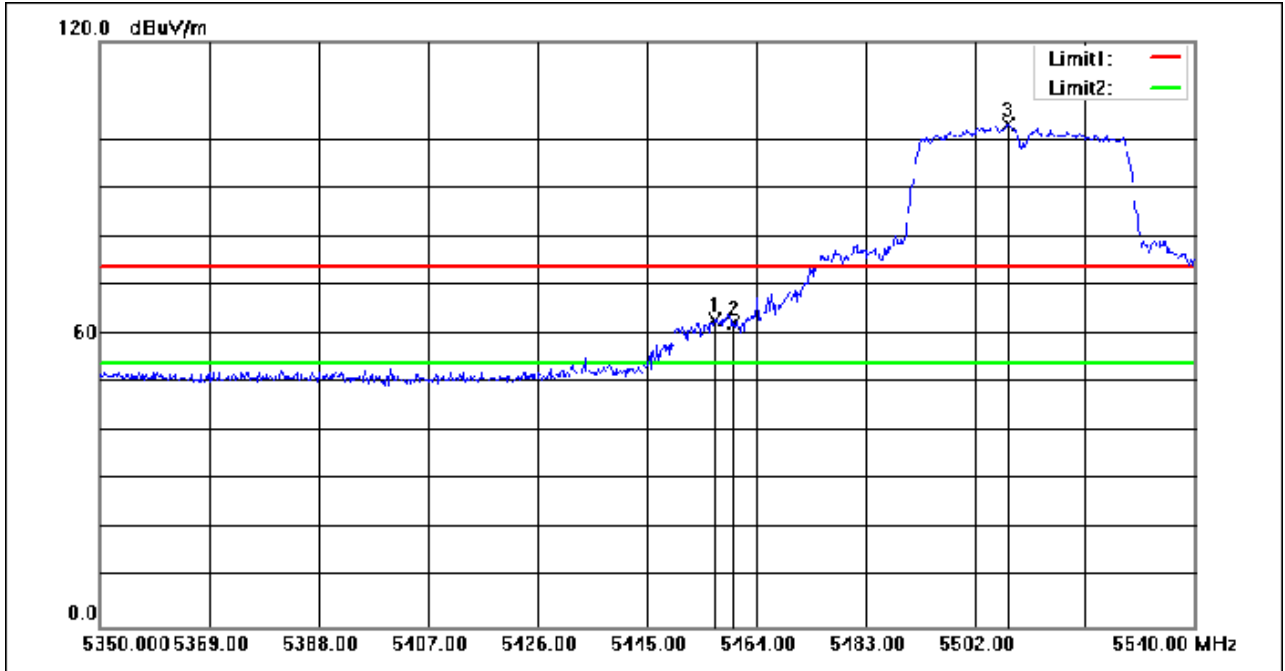
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.780	72.47	-9.60	62.87	74.00	-11.13	peak
2	5460.000	71.93	-9.59	62.34	74.00	-11.66	peak
3	5507.700	112.52	-9.50	103.02	74.00	29.02	peak



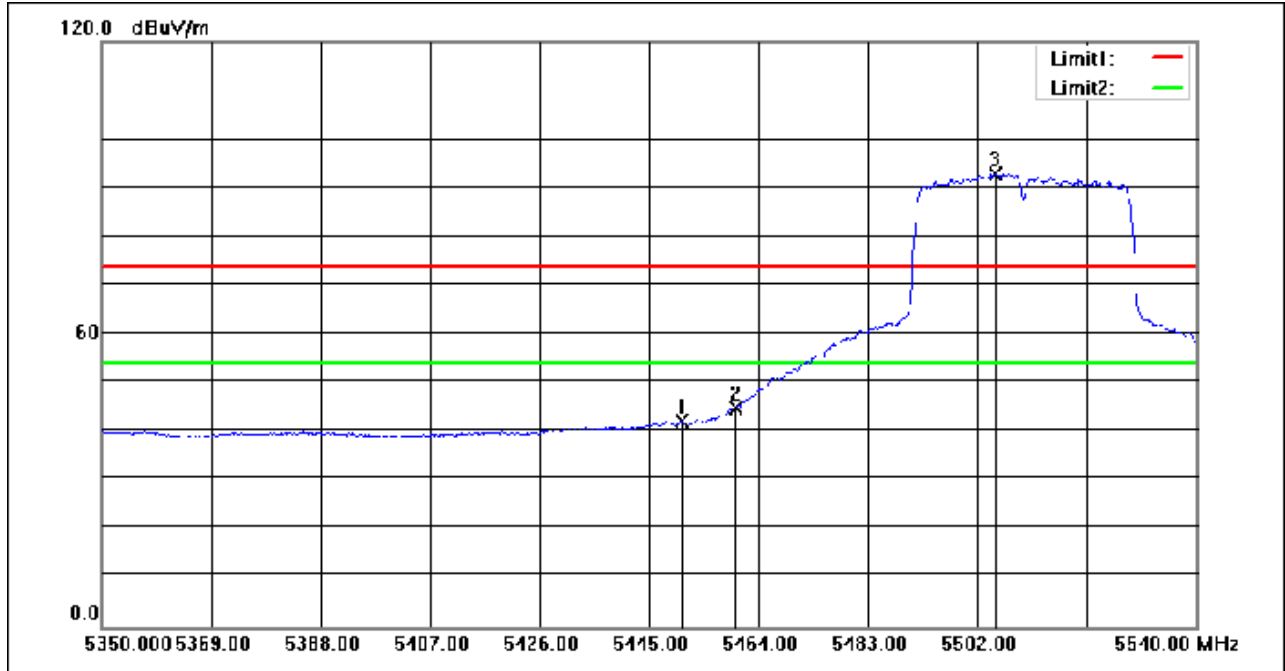
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5450.700	51.72	-9.61	42.11	54.00	-11.89	AVG
2	5460.000	54.50	-9.59	44.91	54.00	-9.09	AVG
3	5505.040	102.51	-9.51	93.00	54.00	39.00	AVG



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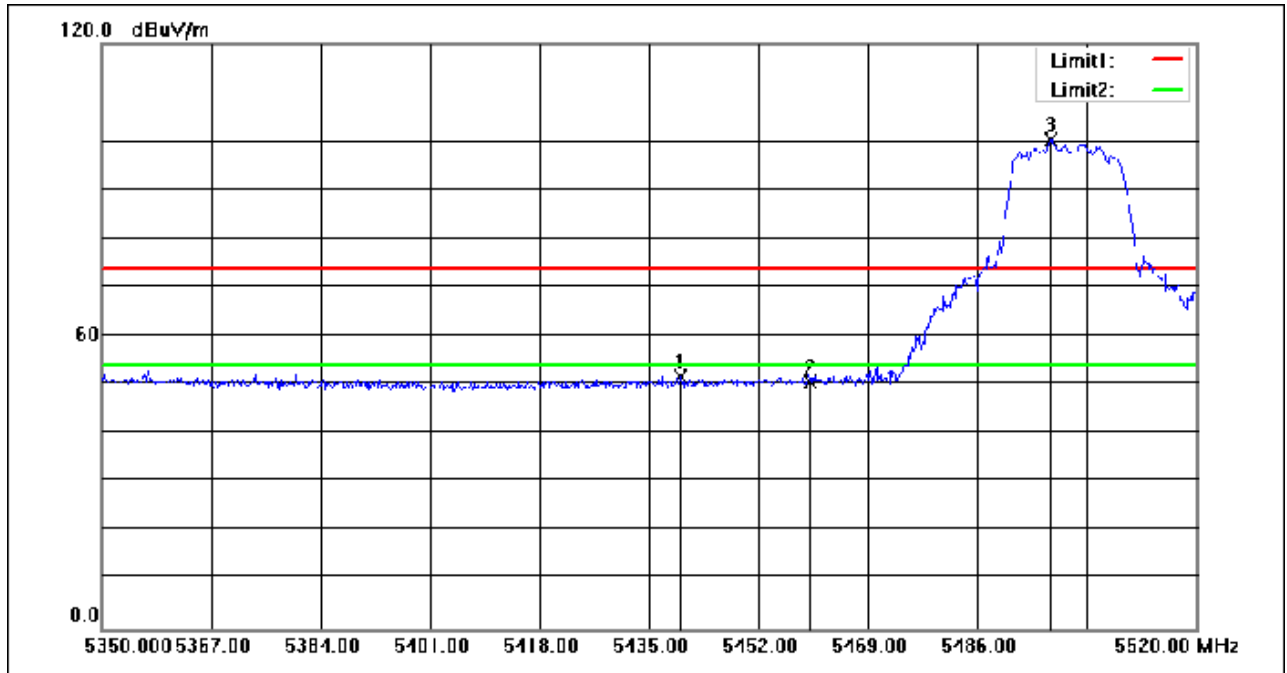
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 200 of 575

Test Mode: 03; 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	5439.930	61.38	-9.62	51.76	74.00	-22.24	peak
2	5460.000	60.19	-9.59	50.60	74.00	-23.40	peak
3	5497.390	109.94	-9.52	100.42	74.00	26.42	peak



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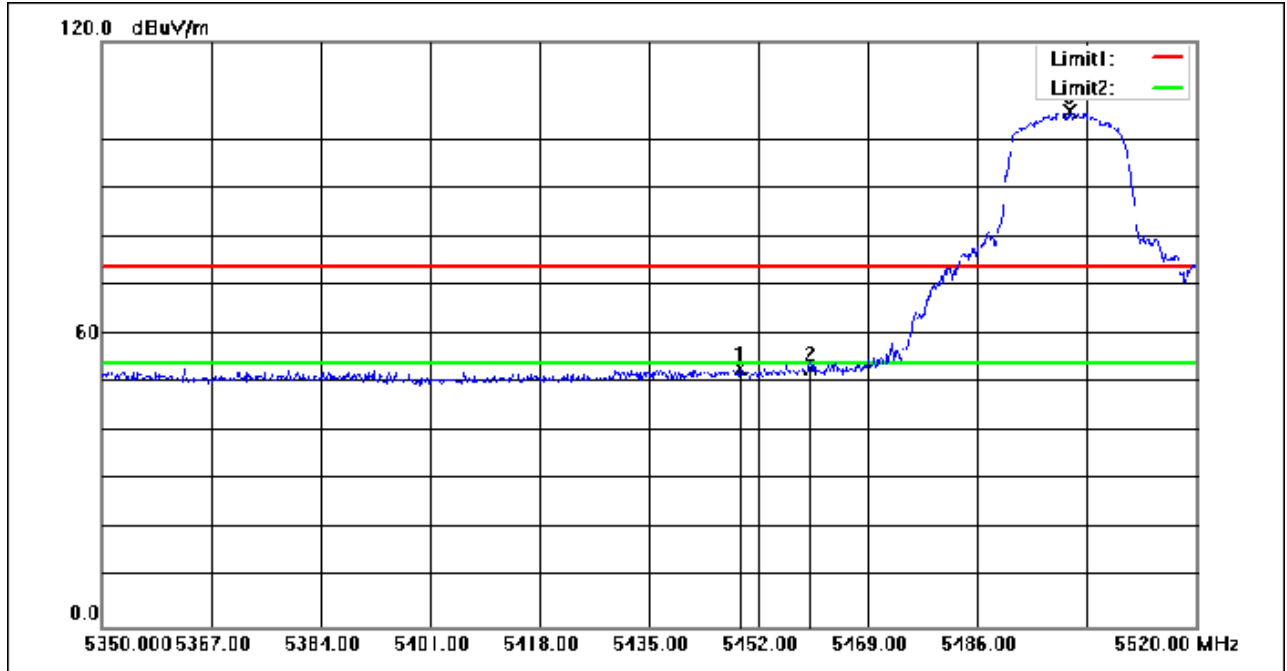


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 201 of 575

Test Mode: 03; 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	5449.110	62.67	-9.61	53.06	74.00	-20.94	peak
2	5460.000	62.50	-9.59	52.91	74.00	-21.09	peak
3	5500.450	115.15	-9.52	105.63	74.00	31.63	peak



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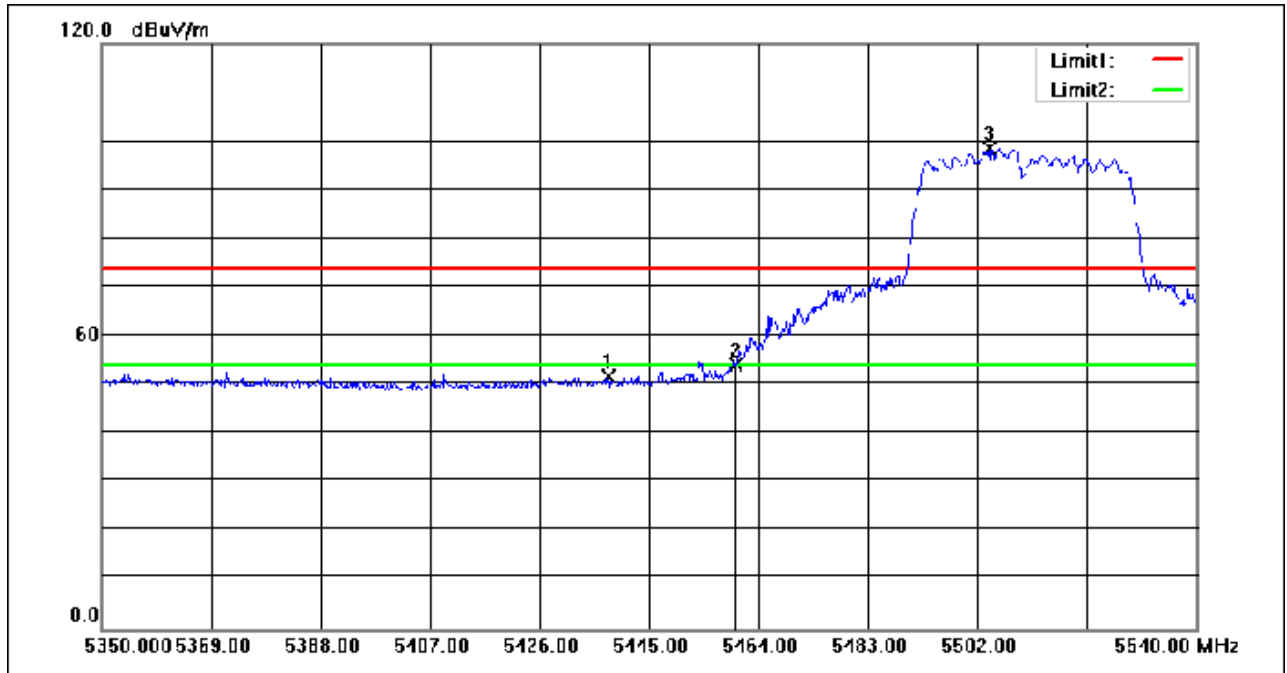
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 202 of 575

Test Mode: 03; 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	5437.970	61.45	-9.63	51.82	74.00	-22.18	peak
2	5460.000	63.88	-9.59	54.29	74.00	-19.71	peak
3	5504.090	107.98	-9.51	98.47	74.00	24.47	peak

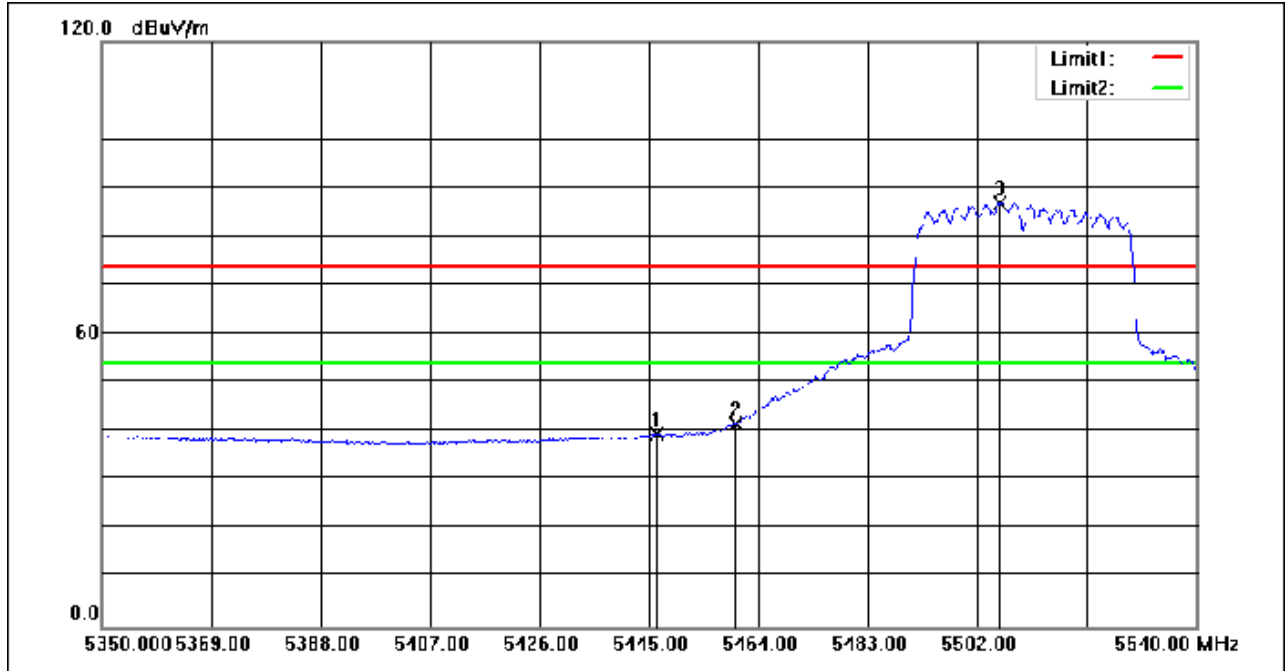


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5446.330	49.08	-9.62	39.46	54.00	-14.54	AVG
2	5460.000	51.28	-9.59	41.69	54.00	-12.31	AVG
3	5505.800	96.48	-9.51	86.97	54.00	32.97	AVG

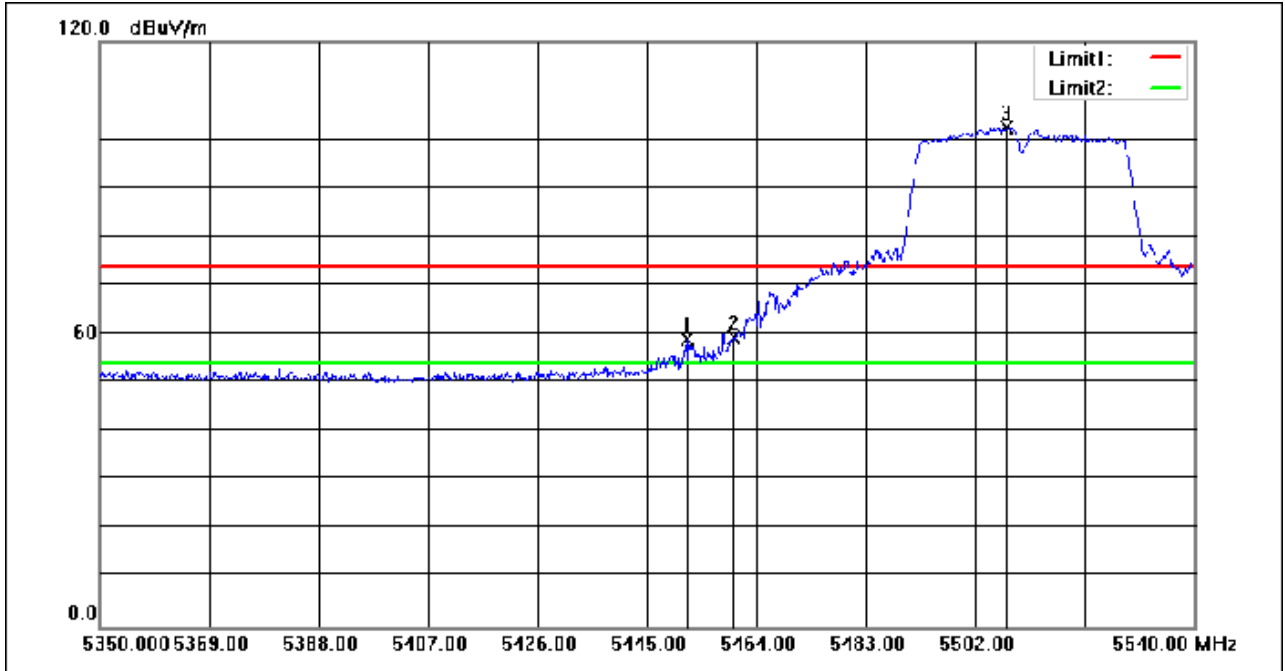


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5451.840	68.71	-9.61	59.10	74.00	-14.90	peak
2	5460.000	68.92	-9.59	59.33	74.00	-14.67	peak
3	5507.510	112.08	-9.50	102.58	74.00	28.58	peak



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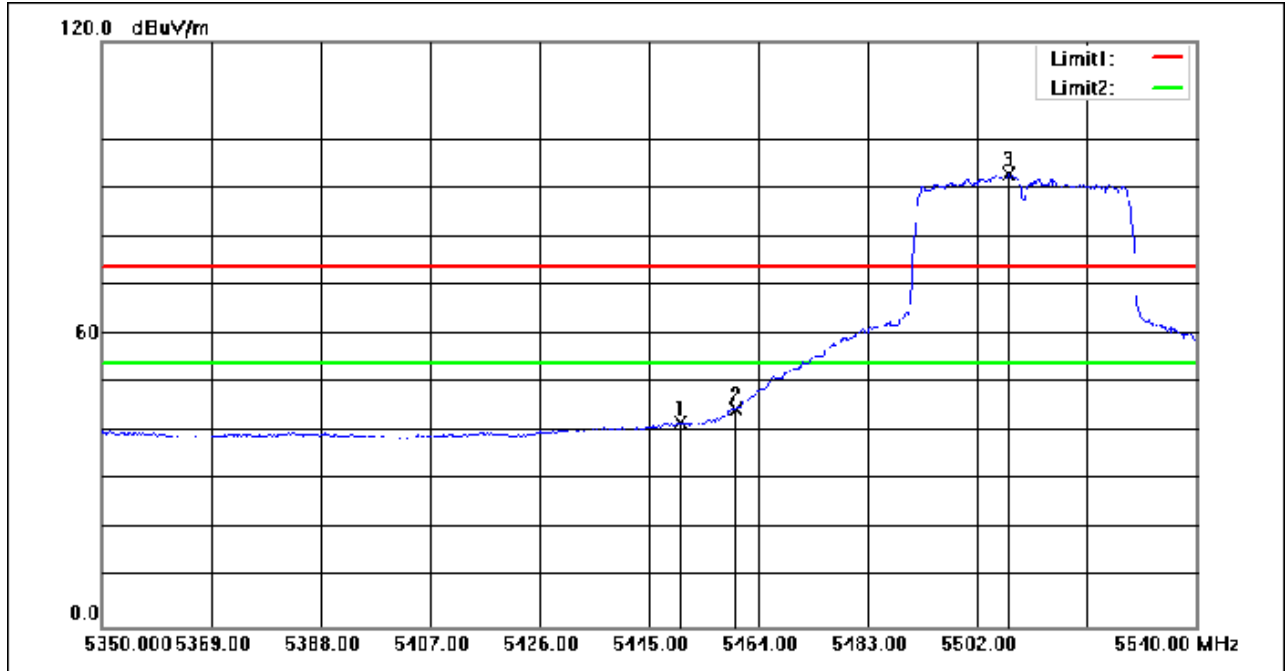


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 205 of 575

Test Mode: 03; 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	5450.510	51.32	-9.61	41.71	54.00	-12.29	AVG
2	5460.000	54.21	-9.59	44.62	54.00	-9.38	AVG
3	5507.510	102.21	-9.50	92.71	54.00	38.71	AVG



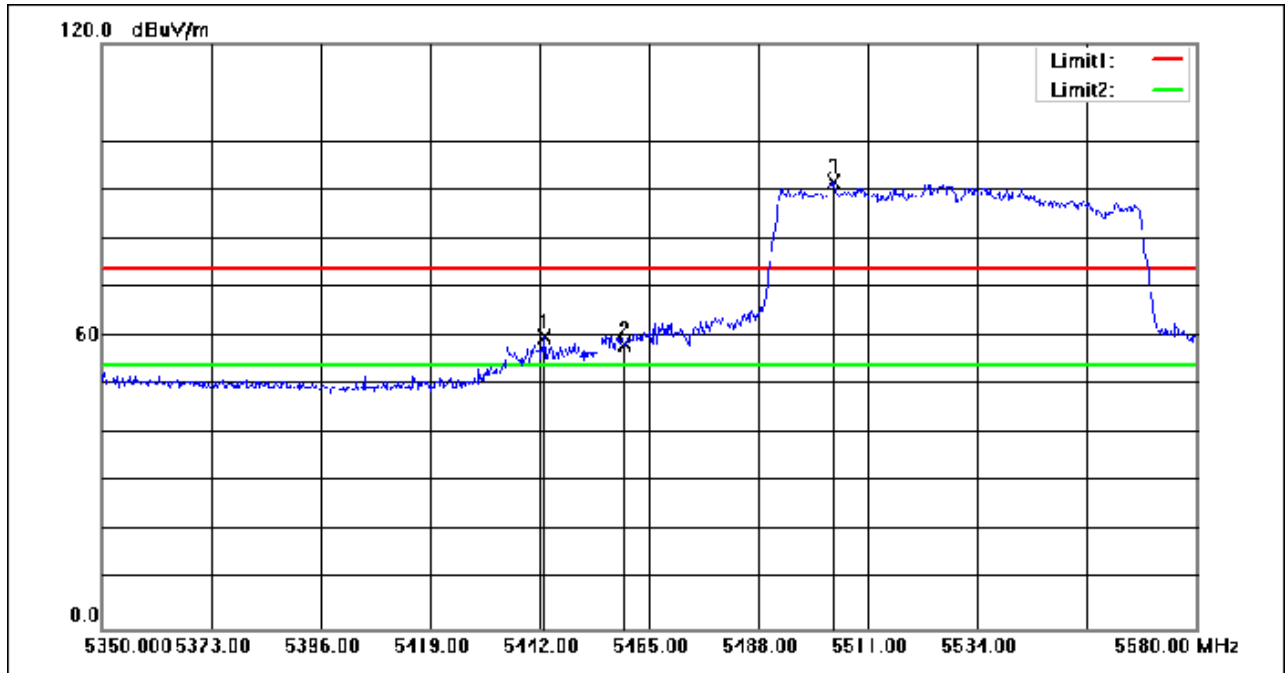
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5443.150	69.34	-9.63	59.71	74.00	-14.29	peak
2	5460.000	67.89	-9.59	58.30	74.00	-15.70	peak
3	5503.640	101.17	-9.51	91.66	74.00	17.66	peak



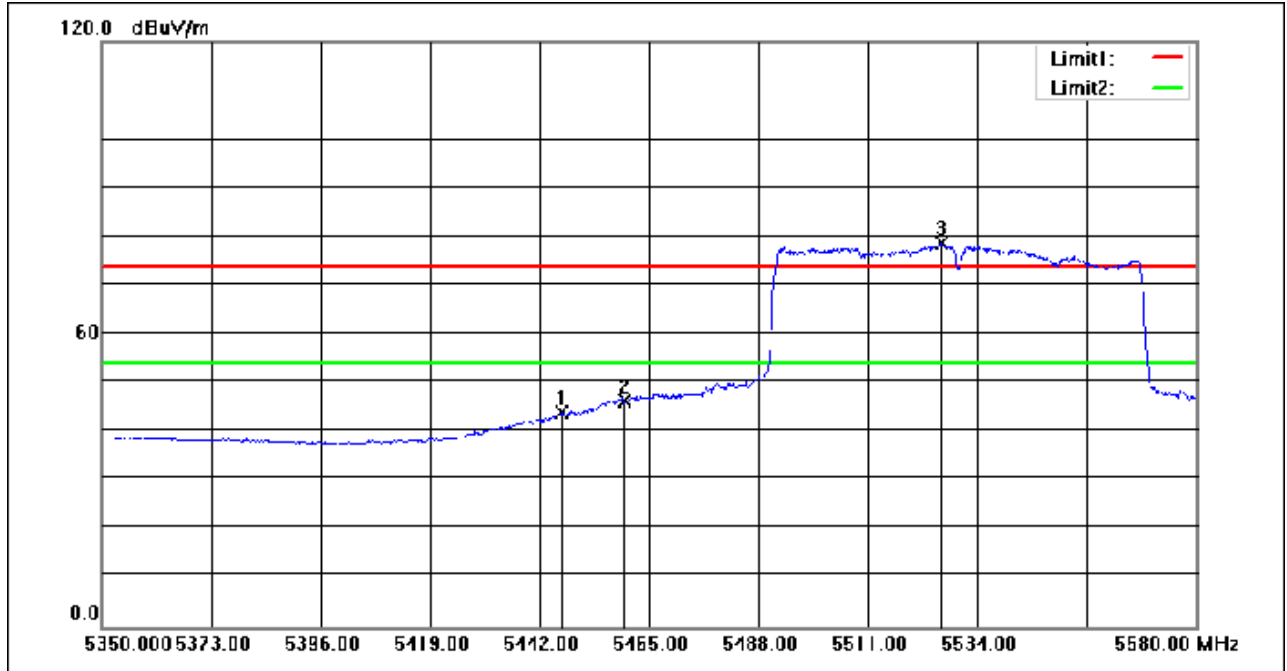
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5446.600	53.56	-9.62	43.94	54.00	-10.06	AVG
2	5460.000	56.07	-9.59	46.48	54.00	-7.52	AVG
3	5526.410	88.21	-9.46	78.75	54.00	24.75	AVG

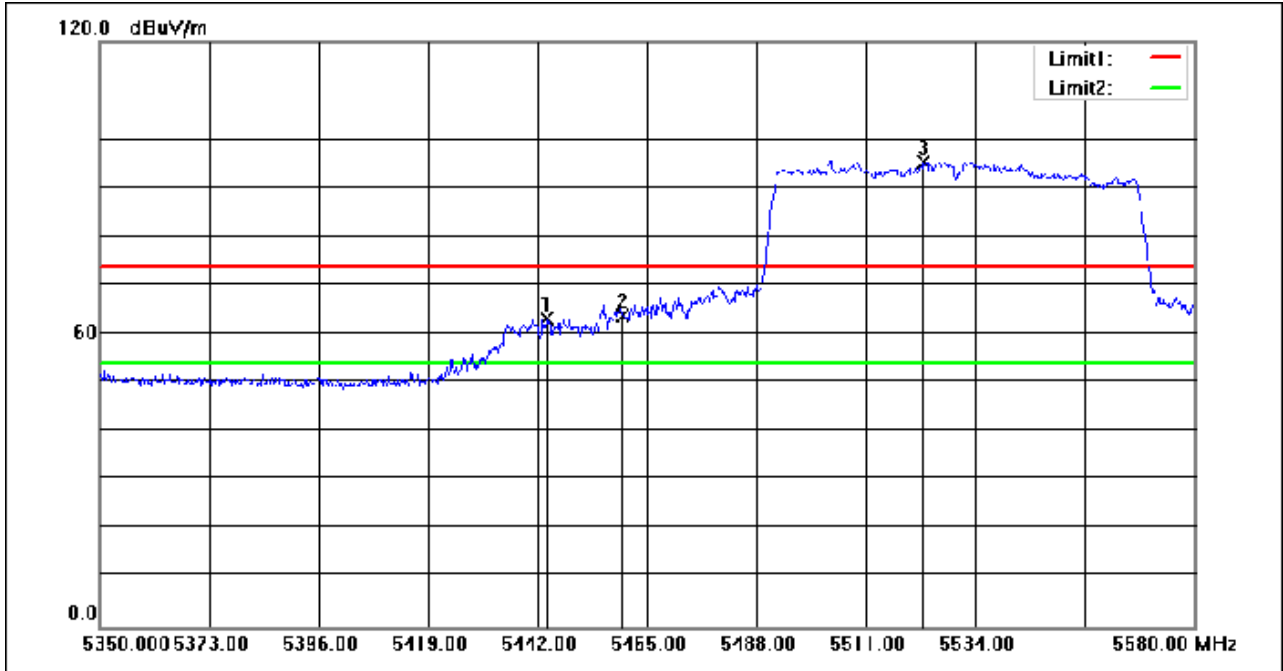


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5444.070	72.86	-9.62	63.24	74.00	-10.76	peak
2	5460.000	73.33	-9.59	63.74	74.00	-10.26	peak
3	5523.190	104.85	-9.47	95.38	74.00	21.38	peak



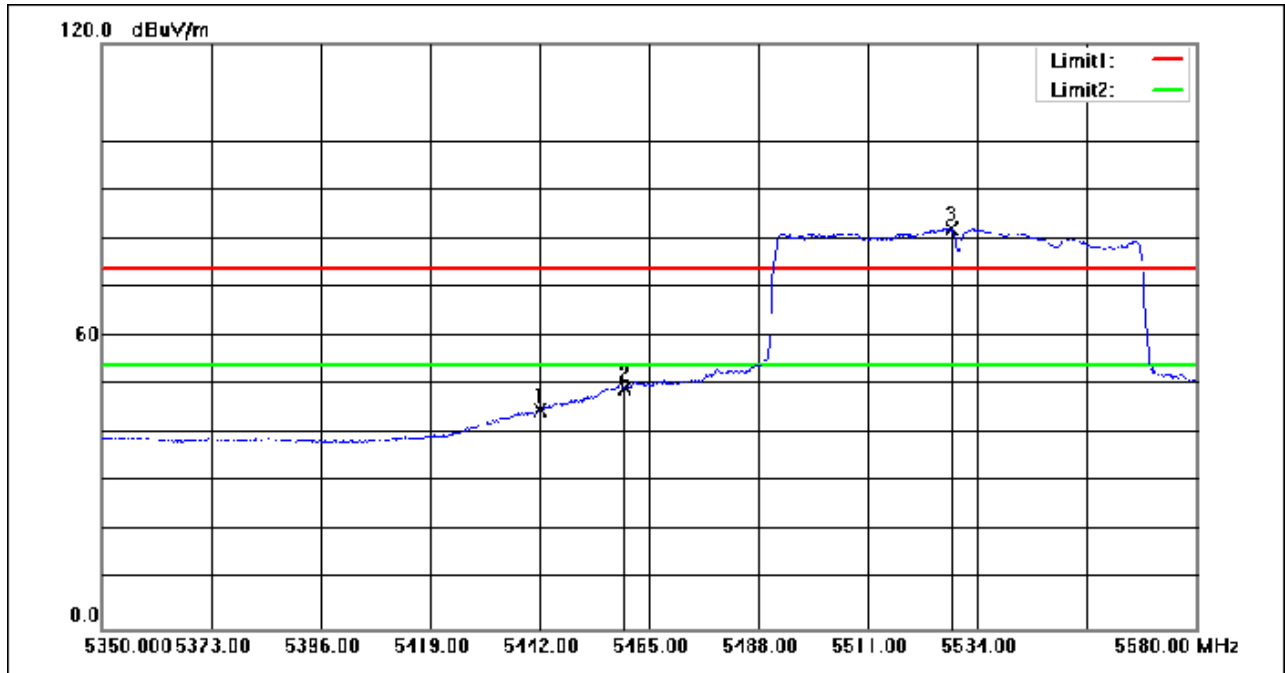
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5442.230	54.50	-9.62	44.88	54.00	-9.12	AVG
2	5460.000	59.09	-9.59	49.50	54.00	-4.50	AVG
3	5528.480	91.56	-9.46	82.10	54.00	28.10	AVG

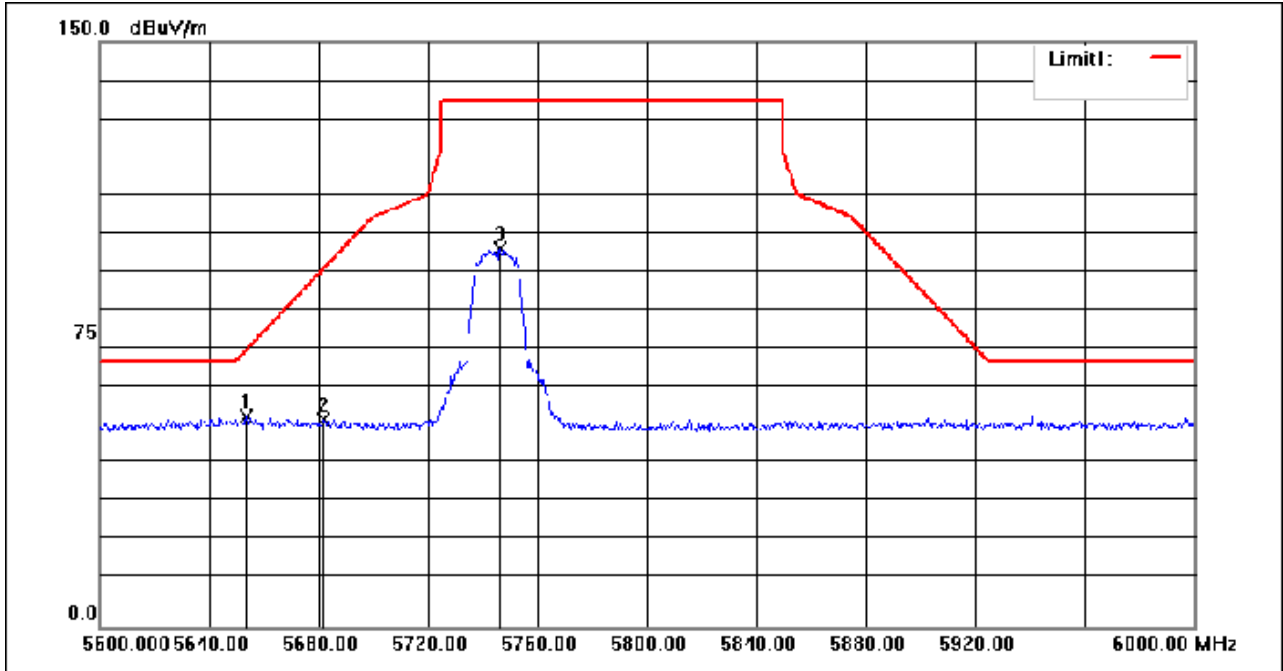


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5653.600	62.83	-9.15	53.68	70.86	-17.18	peak
2	5682.000	62.26	-9.06	53.20	91.88	-38.68	peak
3	5746.400	105.75	-8.87	96.88	135.00	-38.12	peak



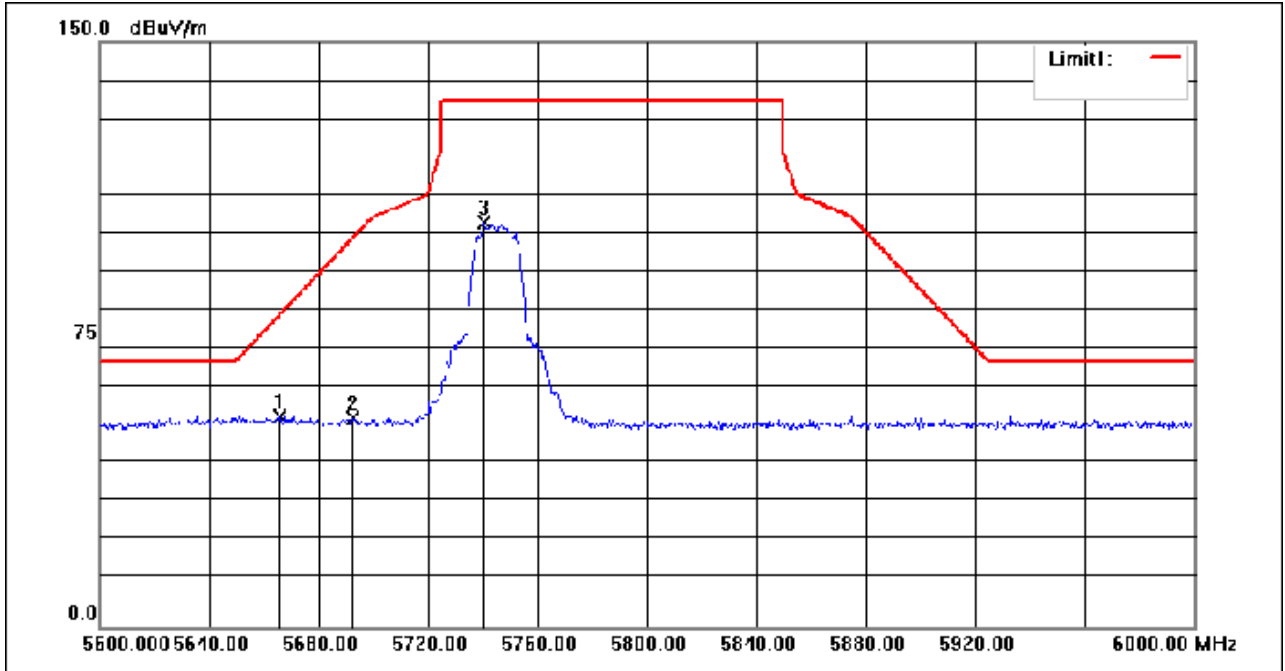
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5665.600	62.97	-9.12	53.85	79.74	-25.89	peak
2	5692.400	62.56	-9.03	53.53	99.58	-46.05	peak
3	5740.400	112.41	-8.88	103.53	135.00	-31.47	peak

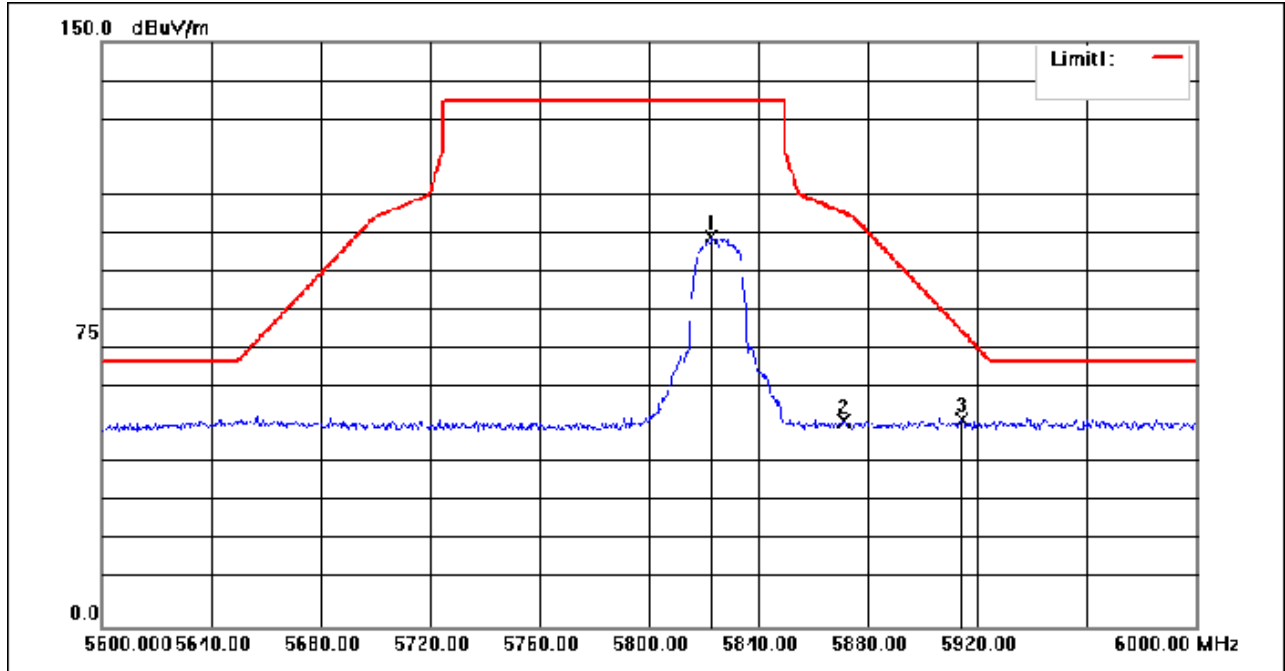


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5822.800	108.47	-8.59	99.88	135.00	-35.12	peak
2	5871.200	61.22	-8.37	52.85	106.26	-53.41	peak
3	5914.400	61.16	-8.18	52.98	76.04	-23.06	peak



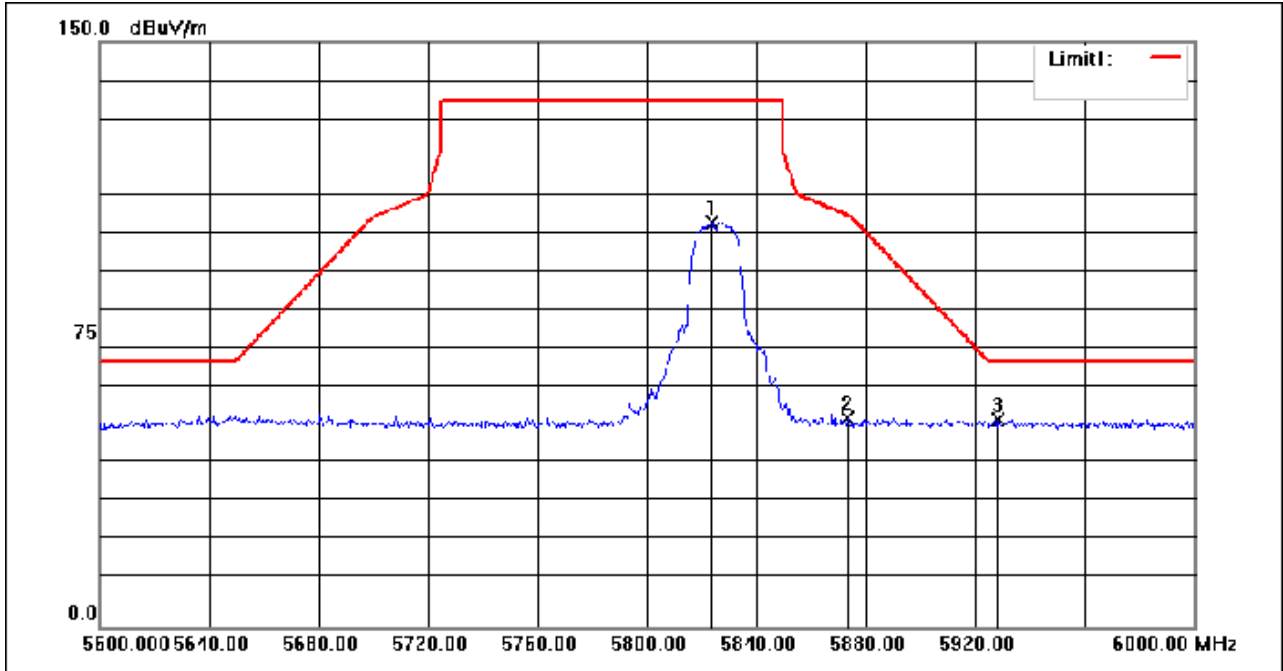
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.600	112.35	-8.58	103.77	135.00	-31.23	peak
2	5873.200	61.78	-8.37	53.41	105.70	-52.29	peak
3	5928.400	61.21	-8.12	53.09	68.20	-15.11	peak



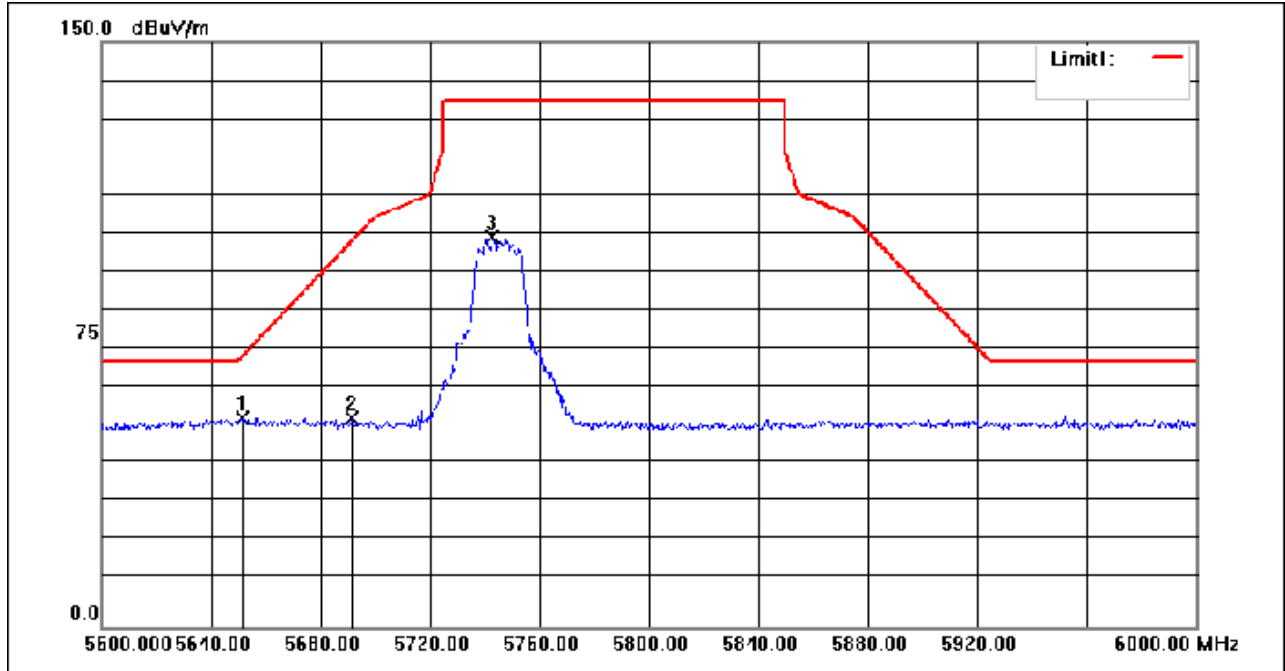
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5651.200	62.65	-9.17	53.48	69.09	-15.61	peak
2	5691.600	62.46	-9.03	53.43	98.98	-45.55	peak
3	5742.800	108.76	-8.87	99.89	135.00	-35.11	peak



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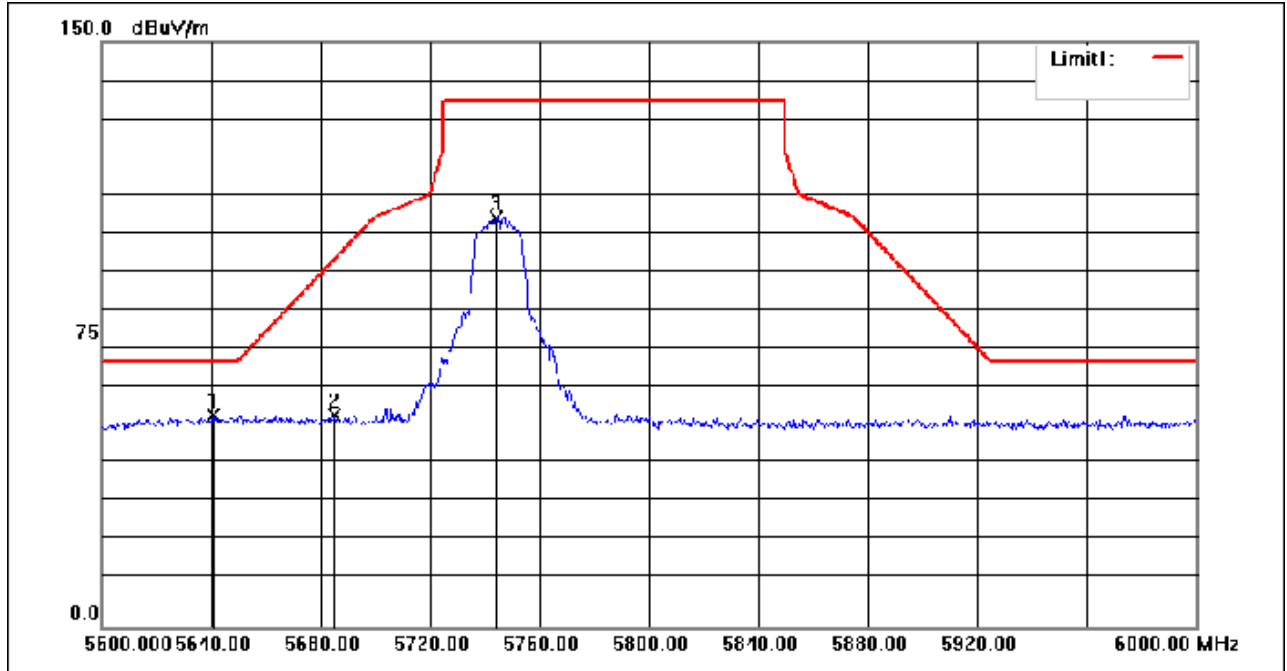
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 215 of 575

Test Mode: 04; 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	5640.800	63.47	-9.20	54.27	68.20	-13.93	peak
2	5685.200	63.38	-9.06	54.32	94.25	-39.93	peak
3	5744.400	113.80	-8.87	104.93	135.00	-30.07	peak



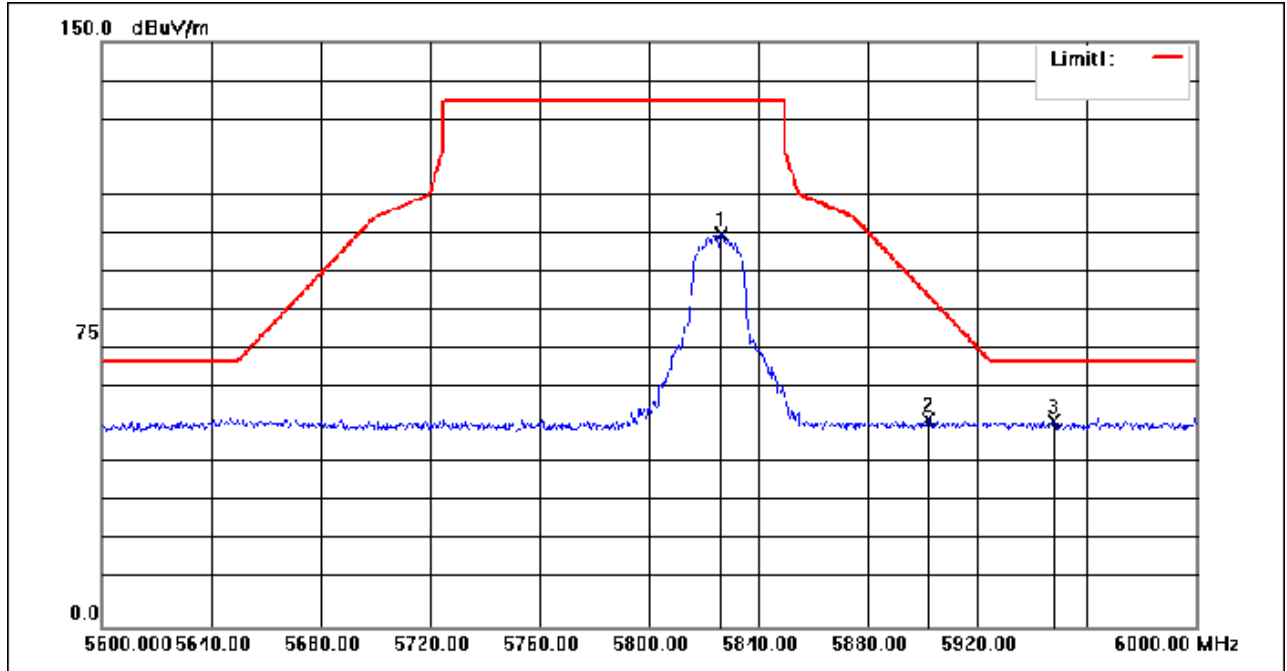
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	109.38	-8.57	100.81	135.00	-34.19	peak
2	5902.000	61.49	-8.24	53.25	85.22	-31.97	peak
3	5948.000	60.88	-8.03	52.85	68.20	-15.35	peak



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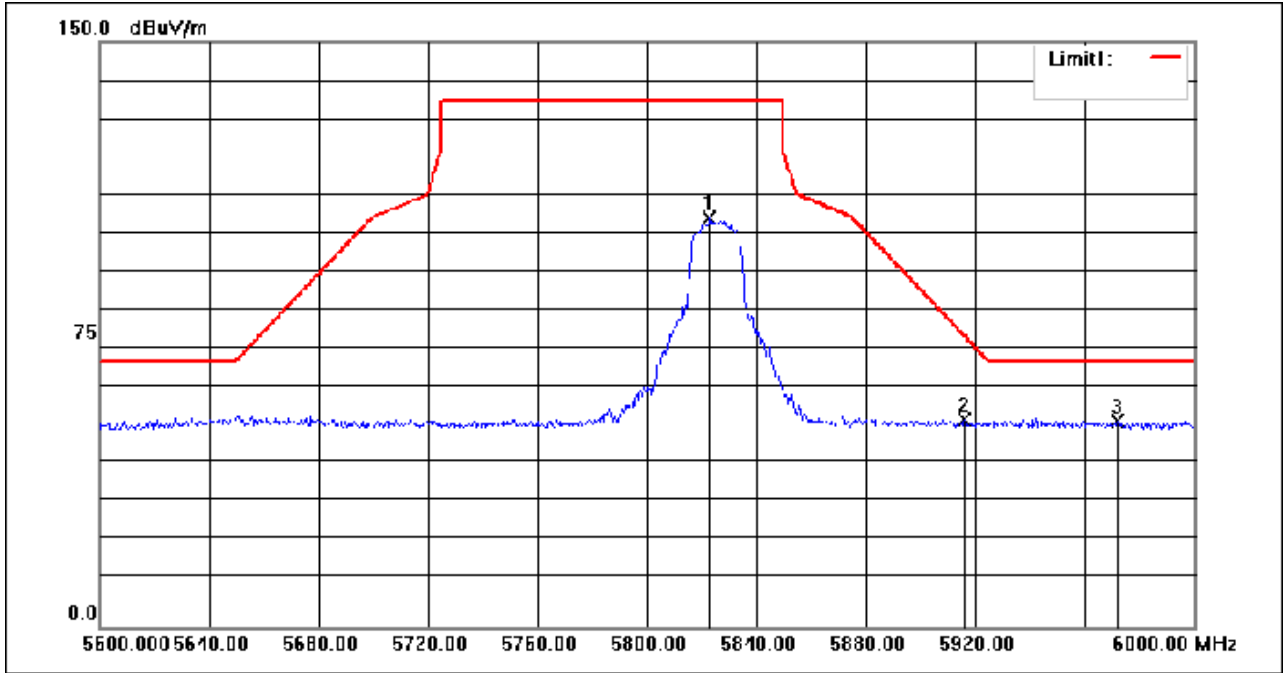
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5822.800	113.22	-8.59	104.63	135.00	-30.37	peak
2	5916.000	61.31	-8.17	53.14	74.86	-21.72	peak
3	5972.000	60.62	-7.93	52.69	68.20	-15.51	peak



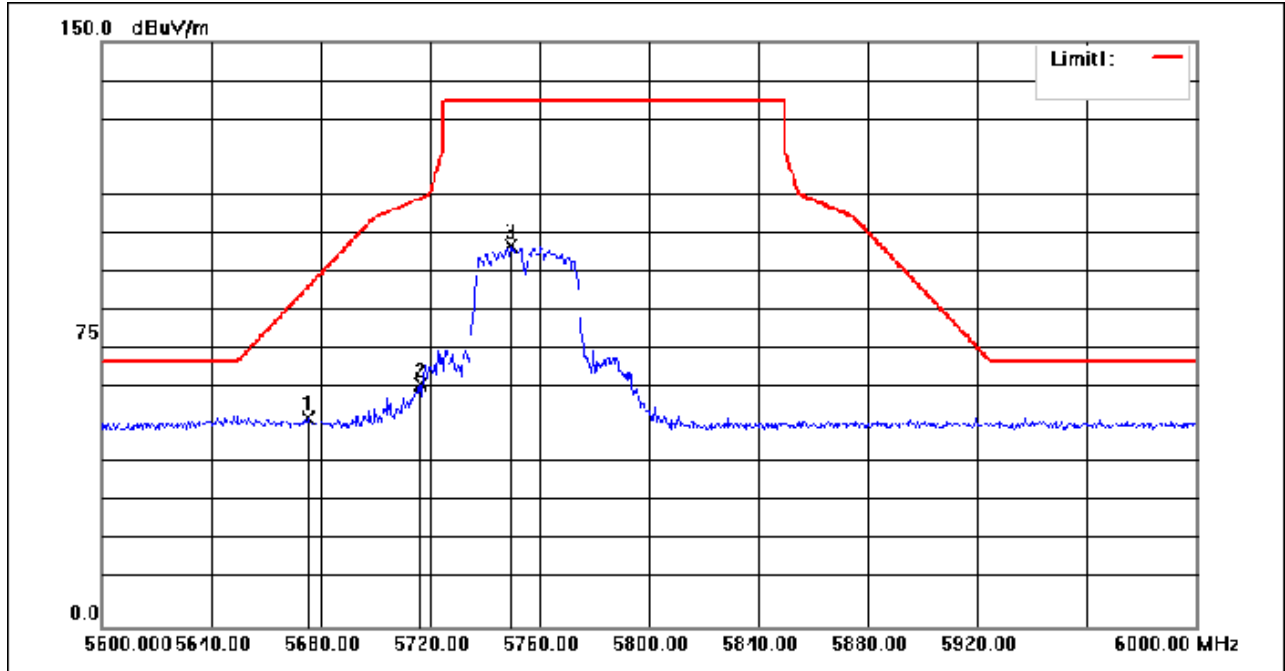
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5675.200	62.36	-9.09	53.27	86.85	-33.58	peak
2	5716.400	70.86	-8.96	61.90	109.79	-47.89	peak
3	5749.600	106.43	-8.85	97.58	135.00	-37.42	peak

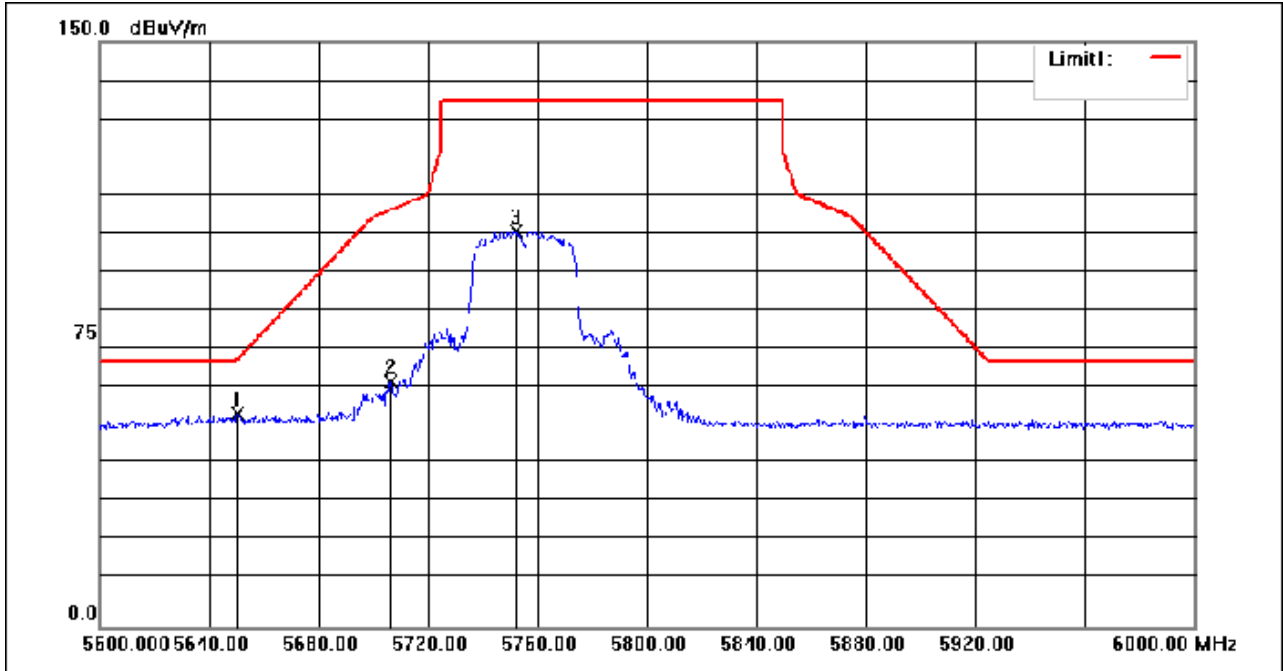


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.400	63.58	-9.17	54.41	68.50	-14.09	peak
2	5706.400	71.70	-8.99	62.71	106.99	-44.28	peak
3	5752.000	110.39	-8.84	101.55	135.00	-33.45	peak

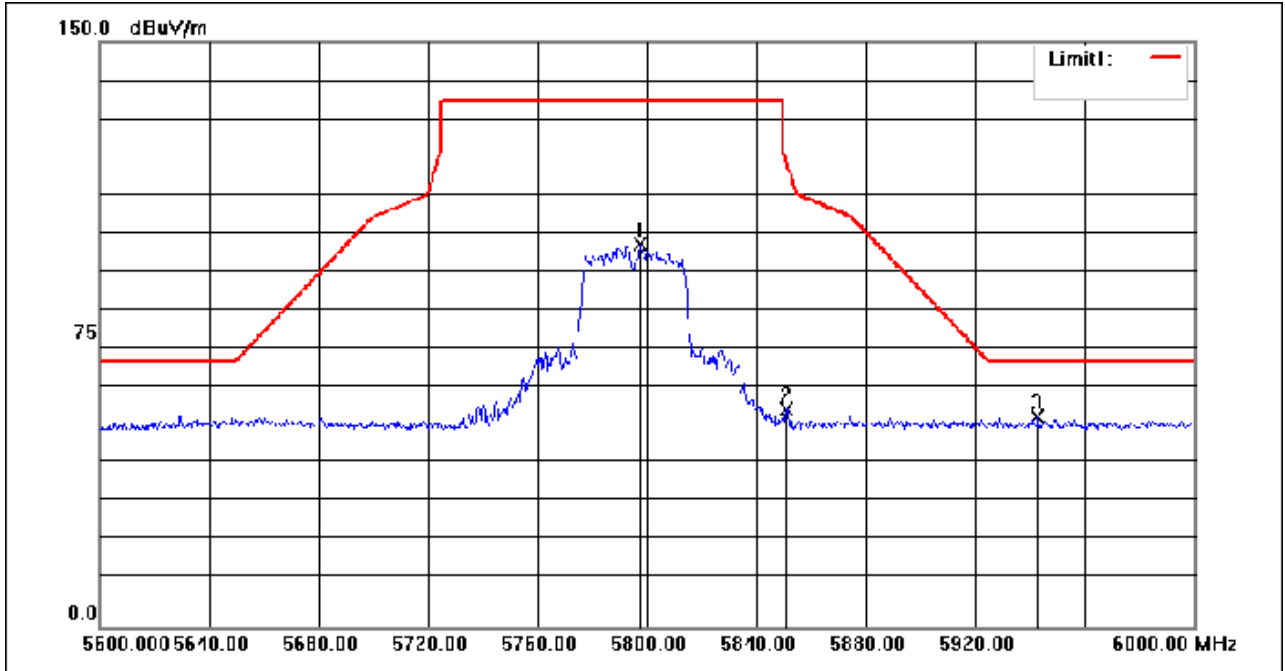


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.600	106.75	-8.70	98.05	135.00	-36.95	peak
2	5850.800	64.10	-8.46	55.64	120.38	-64.74	peak
3	5942.800	61.69	-8.05	53.64	68.20	-14.56	peak



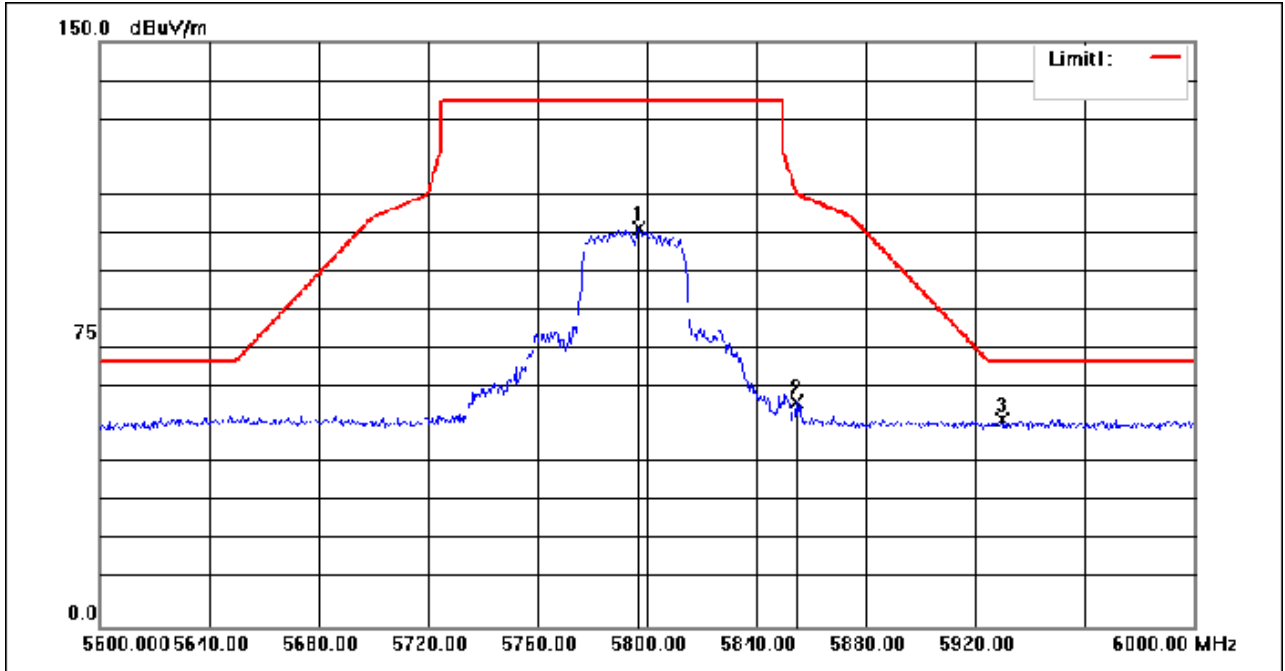
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5796.800	110.73	-8.70	102.03	135.00	-32.97	peak
2	5854.400	65.89	-8.45	57.44	112.17	-54.73	peak
3	5930.000	61.31	-8.11	53.20	68.20	-15.00	peak



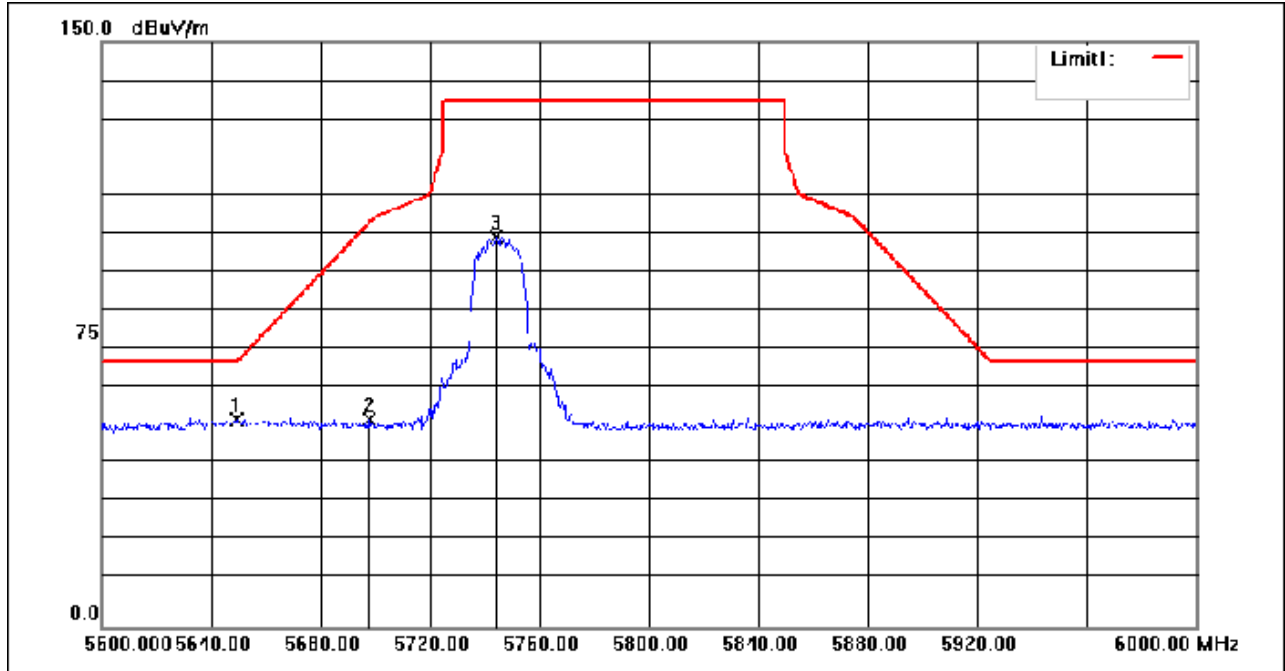
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.200	62.41	-9.17	53.24	68.20	-14.96	peak
2	5698.000	62.25	-9.02	53.23	103.72	-50.49	peak
3	5744.400	108.69	-8.87	99.82	135.00	-35.18	peak



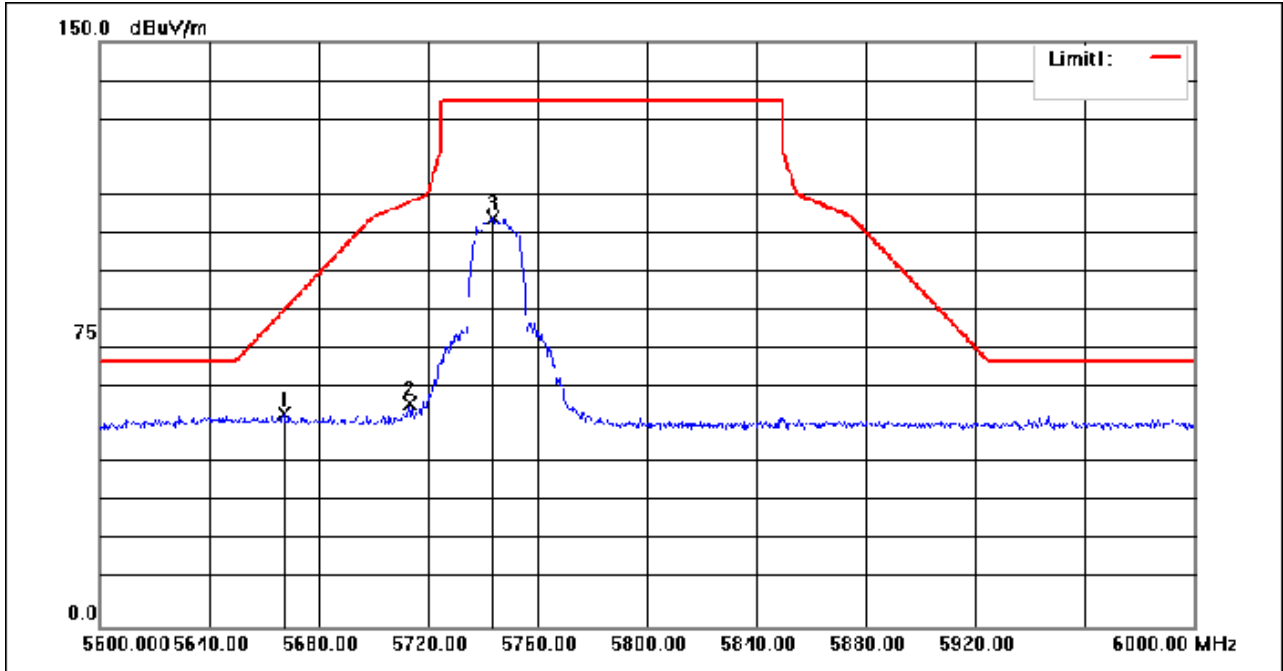
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5667.200	63.55	-9.12	54.43	80.93	-26.50	peak
2	5713.200	66.22	-8.97	57.25	108.90	-51.65	peak
3	5743.600	113.72	-8.87	104.85	135.00	-30.15	peak



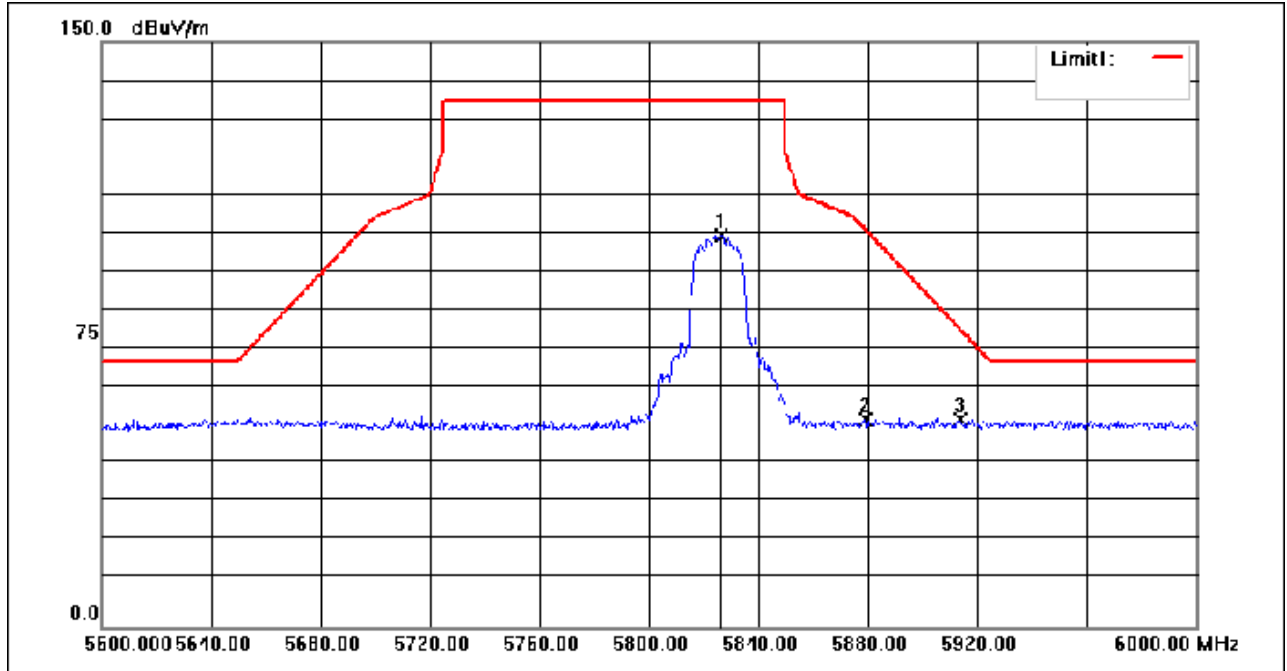
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	108.83	-8.57	100.26	135.00	-34.74	peak
2	5879.200	61.54	-8.34	53.20	102.09	-48.89	peak
3	5914.000	61.36	-8.18	53.18	76.34	-23.16	peak



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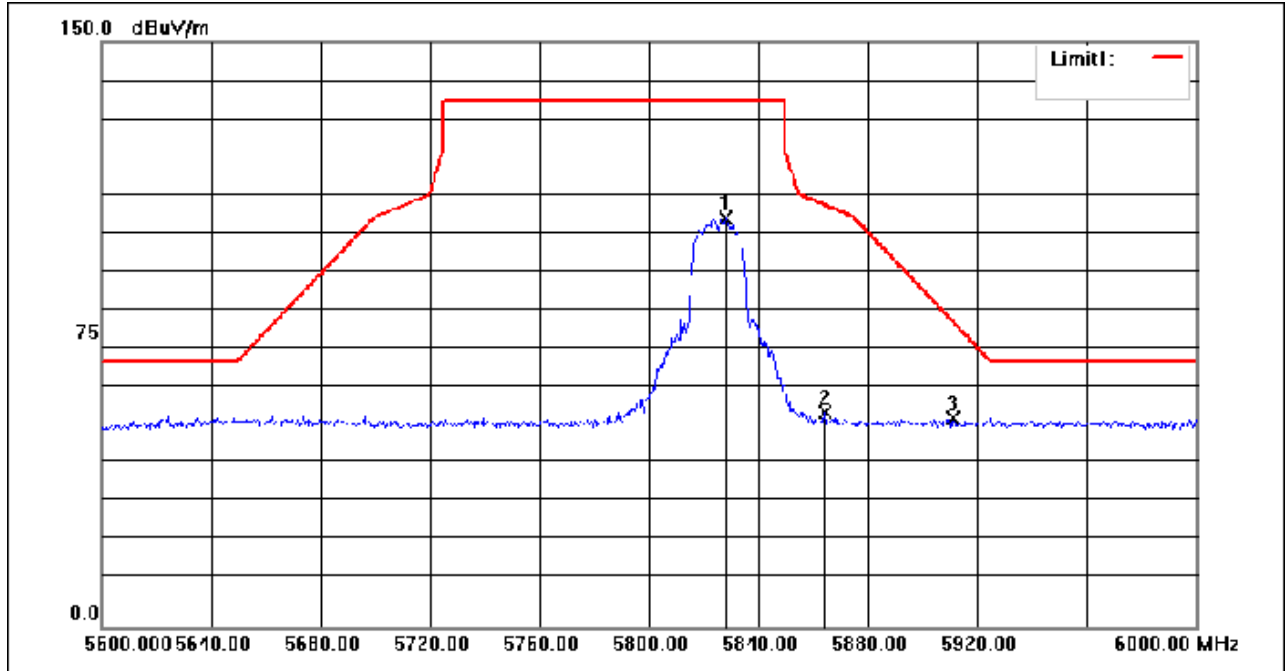


## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 225 of 575

Test Mode: 04; 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	5828.000	113.48	-8.56	104.92	135.00	-30.08	peak
2	5864.400	63.33	-8.40	54.93	108.17	-53.24	peak
3	5911.200	61.52	-8.20	53.32	78.41	-25.09	peak



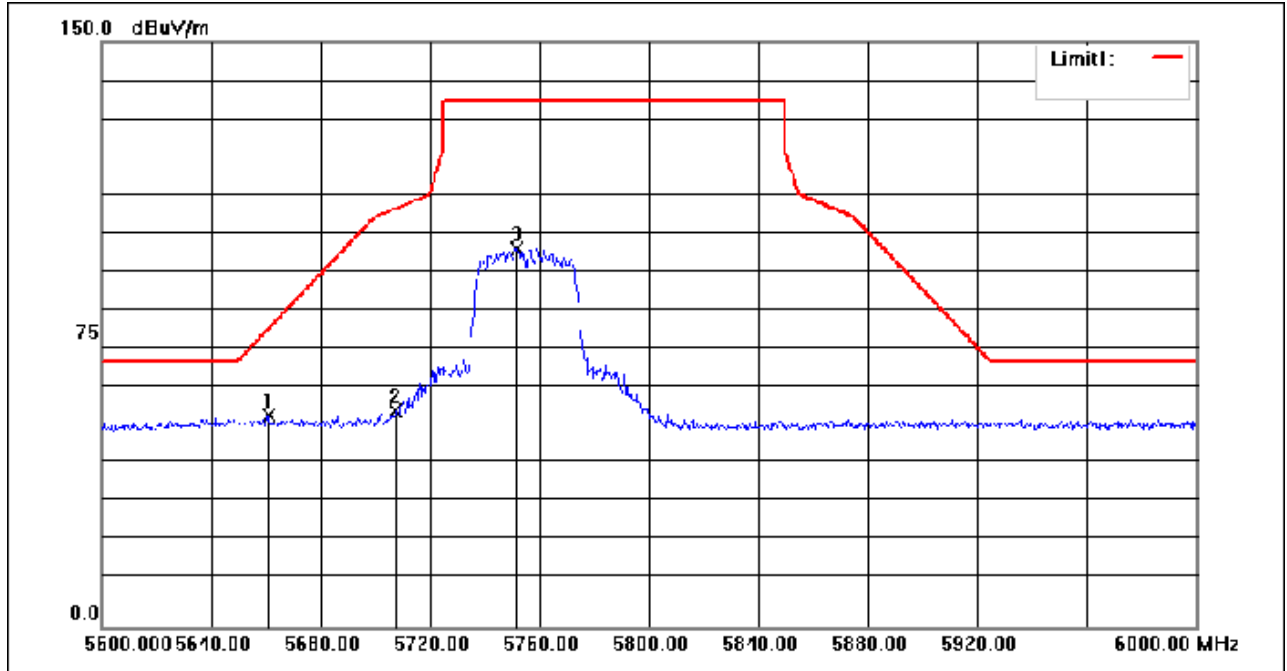
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5660.800	63.20	-9.14	54.06	76.19	-22.13	peak
2	5707.600	64.40	-8.99	55.41	107.33	-51.92	peak
3	5751.600	105.81	-8.84	96.97	135.00	-38.03	peak



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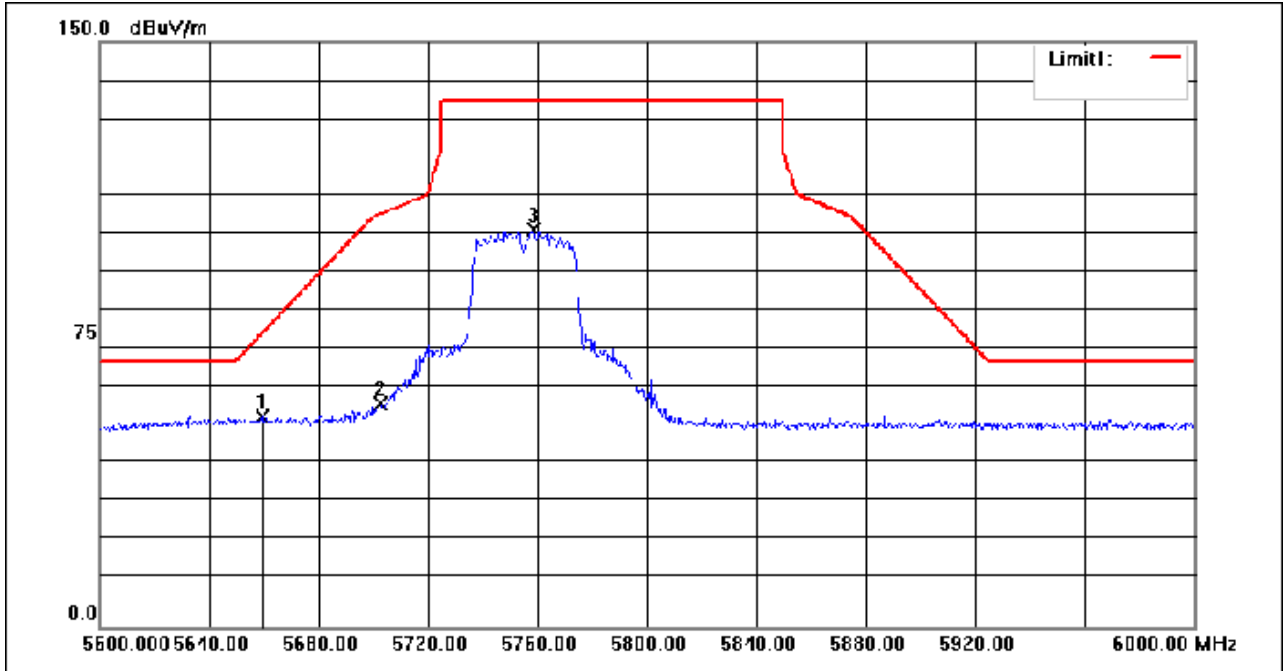
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

Page: 227 of 575

Test Mode: 04; 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	5659.200	62.77	-9.14	53.63	75.01	-21.38	peak
2	5702.800	66.24	-9.00	57.24	105.98	-48.74	peak
3	5758.400	110.70	-8.82	101.88	135.00	-33.12	peak



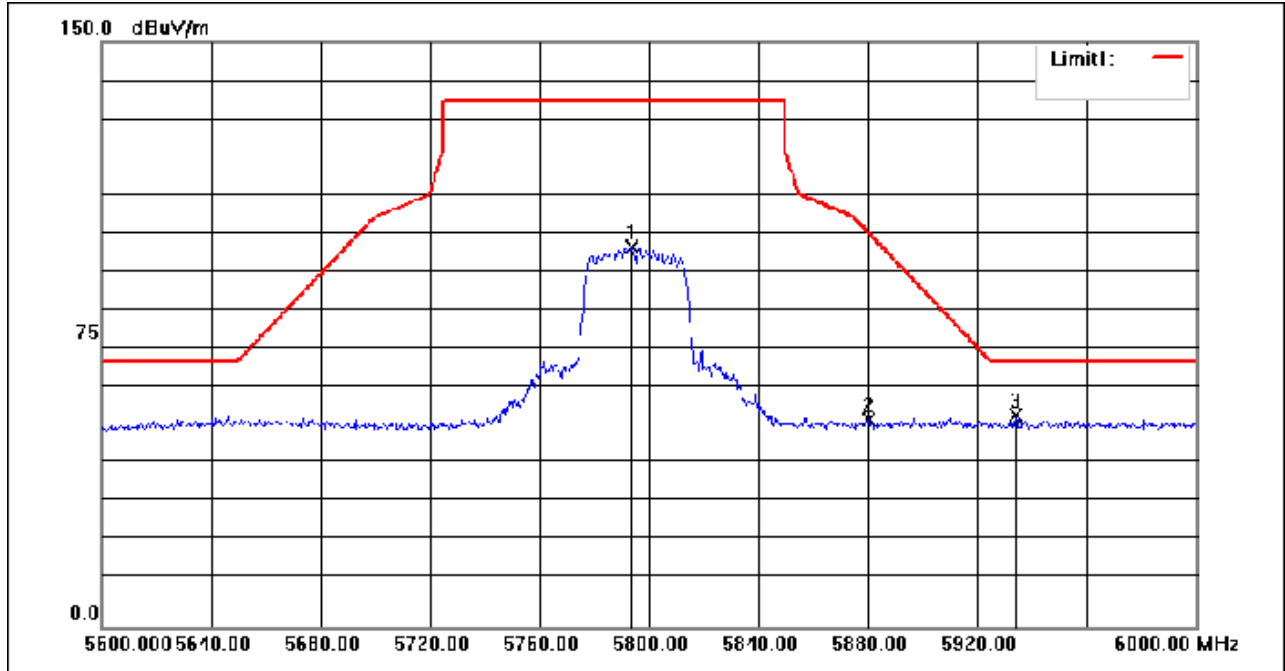
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5794.000	106.04	-8.71	97.33	135.00	-37.67	peak
2	5880.400	61.49	-8.33	53.16	101.20	-48.04	peak
3	5934.000	62.23	-8.10	54.13	68.20	-14.07	peak



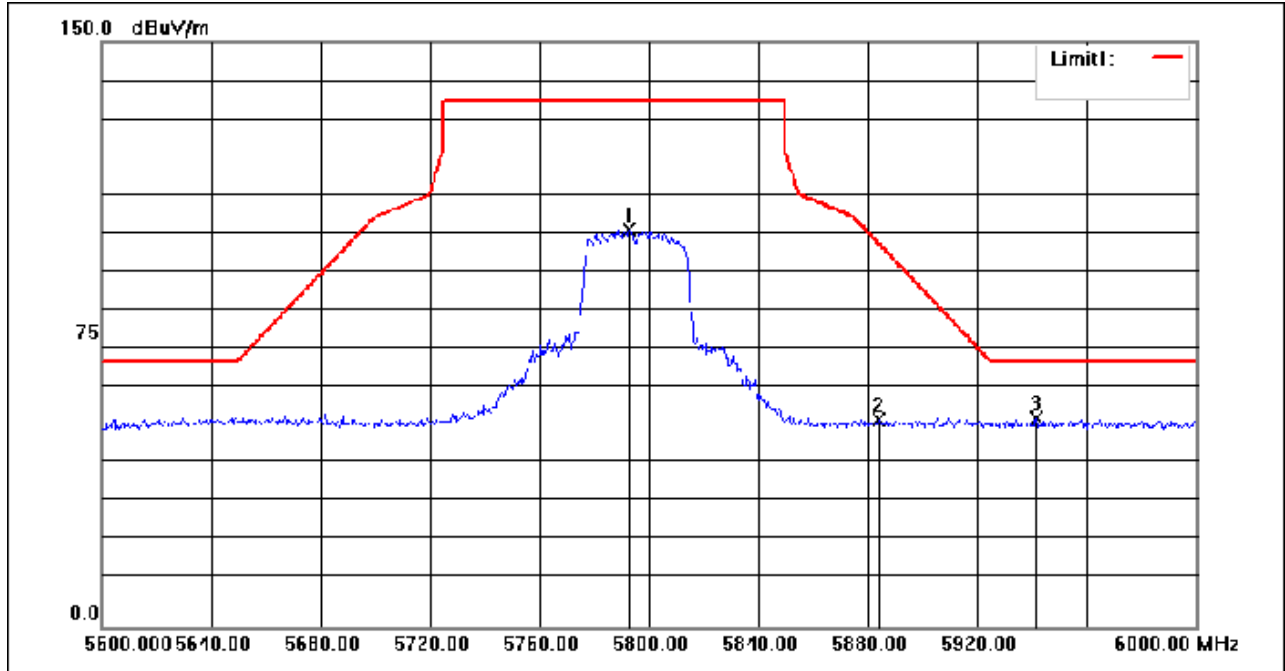
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.800	110.64	-8.72	101.92	135.00	-33.08	peak
2	5884.000	61.51	-8.32	53.19	98.54	-45.35	peak
3	5941.600	61.34	-8.06	53.28	68.20	-14.92	peak



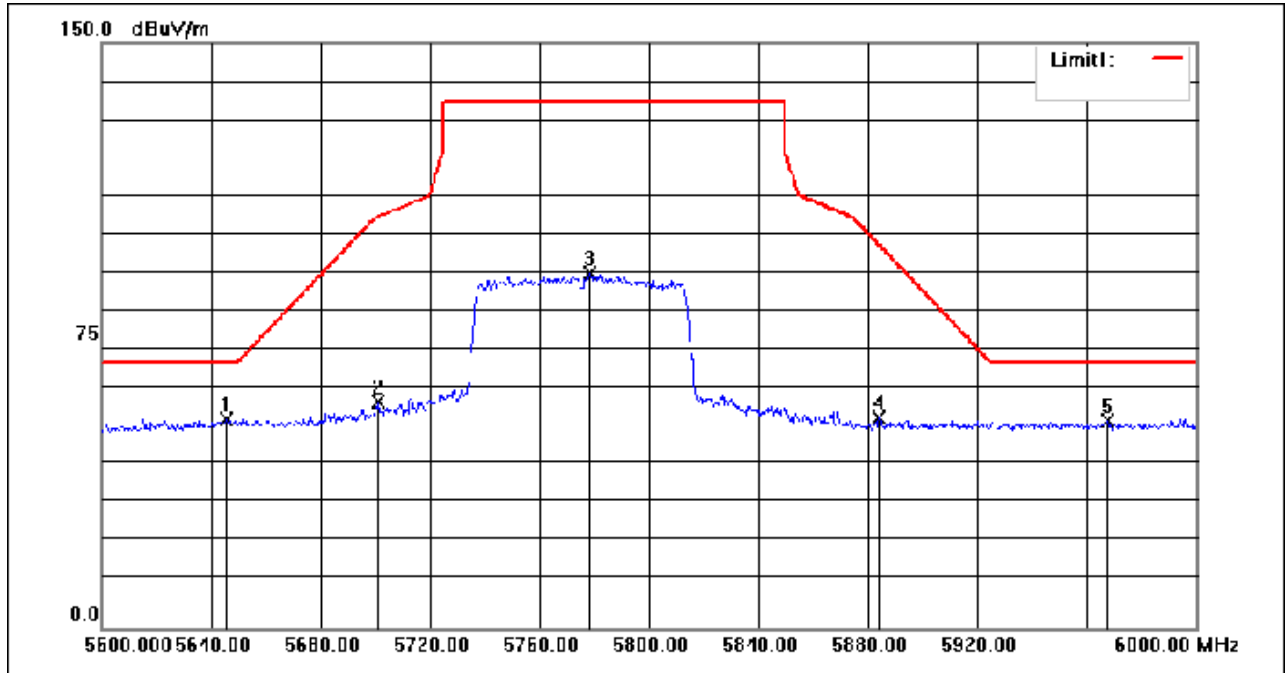
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5645.600	62.80	-9.18	53.62	68.20	-14.58	peak
2	5701.200	66.81	-9.00	57.81	105.54	-47.73	peak
3	5778.400	99.53	-8.76	90.77	135.00	-44.23	peak
4	5884.000	62.11	-8.32	53.79	98.54	-44.75	peak
5	5967.600	61.09	-7.94	53.15	68.20	-15.05	peak

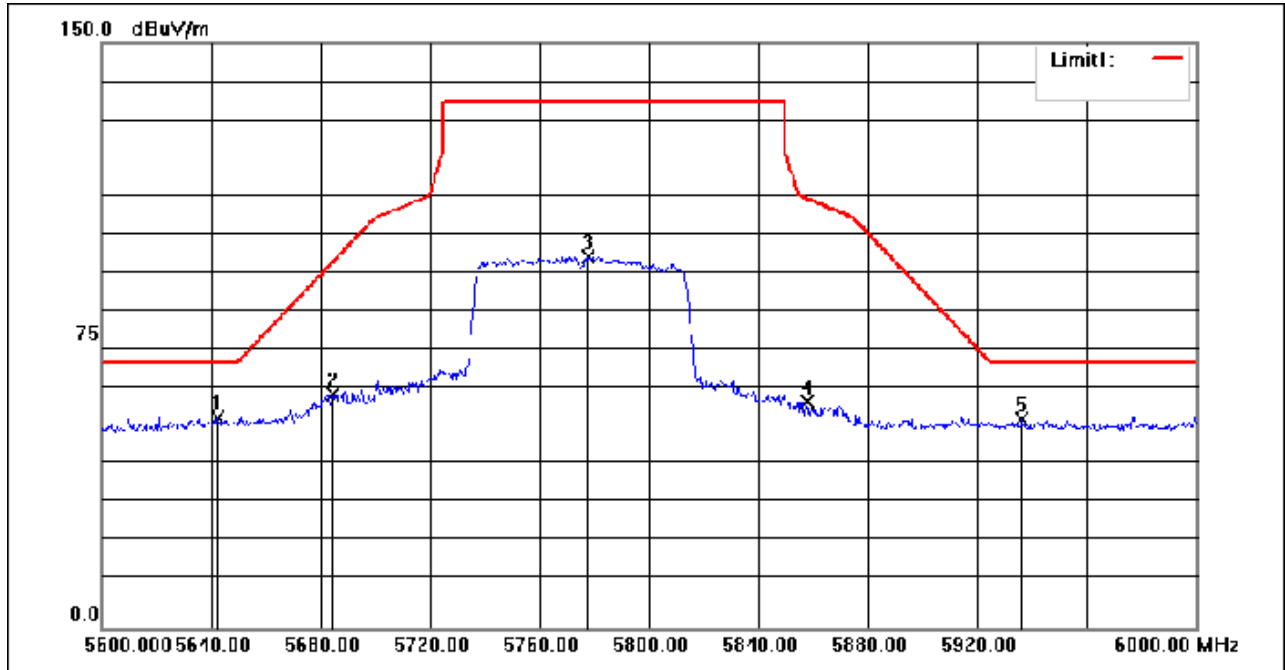


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5642.400	62.95	-9.20	53.75	68.20	-14.45	peak
2	5684.400	68.77	-9.06	59.71	93.66	-33.95	peak
3	5778.000	103.91	-8.76	95.15	135.00	-39.85	peak
4	5858.000	66.30	-8.43	57.87	109.96	-52.09	peak
5	5936.400	61.39	-8.08	53.31	68.20	-14.89	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: 24.1 °C Humidity: 42.1 % RH Atmospheric Pressure: 1010 mbar

**7.10.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80) final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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### 7.10.3 Test Setup Diagram

### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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# Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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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

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: 23.5 °C Humidity: 58.5 % RH Atmospheric Pressure: 1010 mbar

### 7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	03	TX mode (U-NII-2C) Keep the EUT in continuously transmitting mode with all

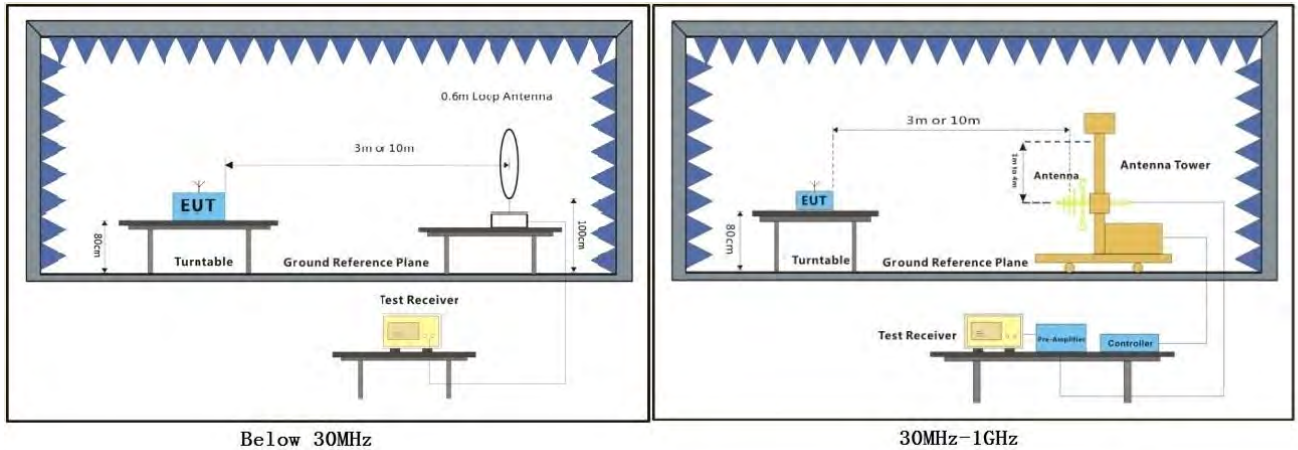


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		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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.

**7.11.3 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.
- 5. We evaluated all modes, all antennas and antenna combinations, and only showed the worst mode data in the report.

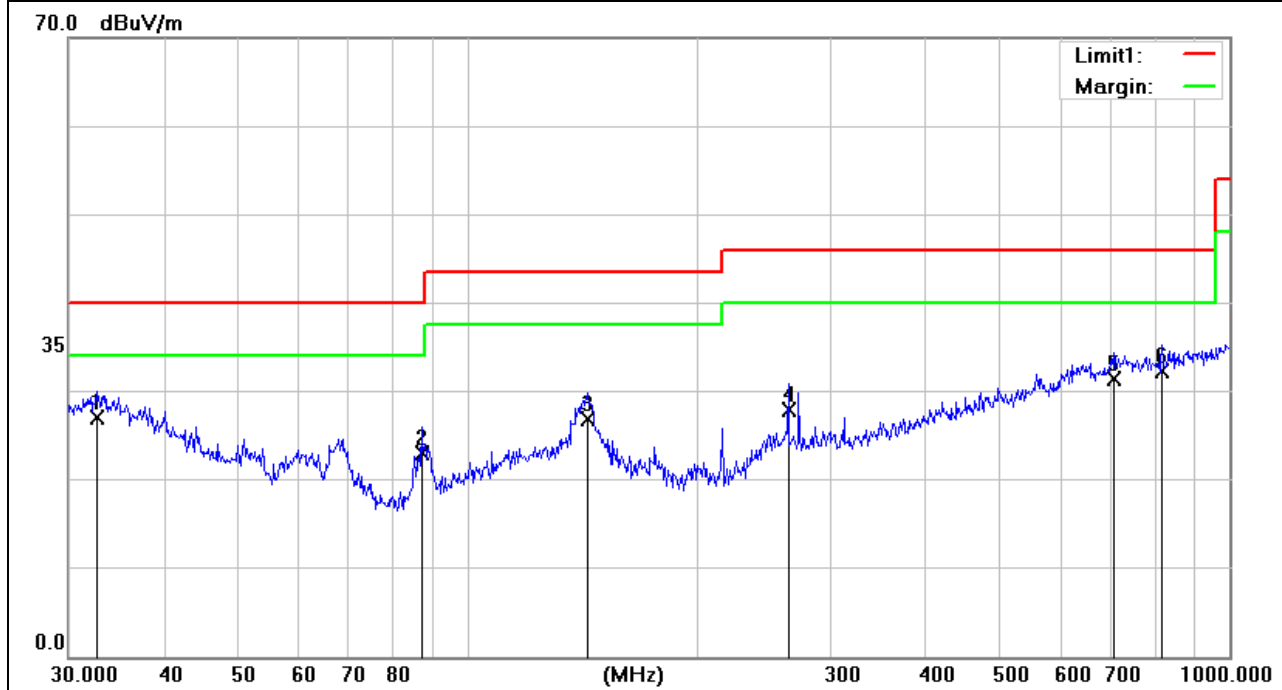


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Test Mode: 02; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	32.6340	1.95	25.07	27.02	40.00	-12.98	200	66	QP
2	87.1117	8.67	14.38	23.05	40.00	-16.95	100	342	QP
3	143.8295	8.74	18.17	26.91	43.50	-16.59	200	342	QP
4	263.8190	6.86	21.02	27.88	46.00	-18.12	200	119	QP
5	704.2261	3.54	27.82	31.36	46.00	-14.64	200	0	QP
6	815.9678	4.25	28.05	32.30	46.00	-13.70	100	32	QP



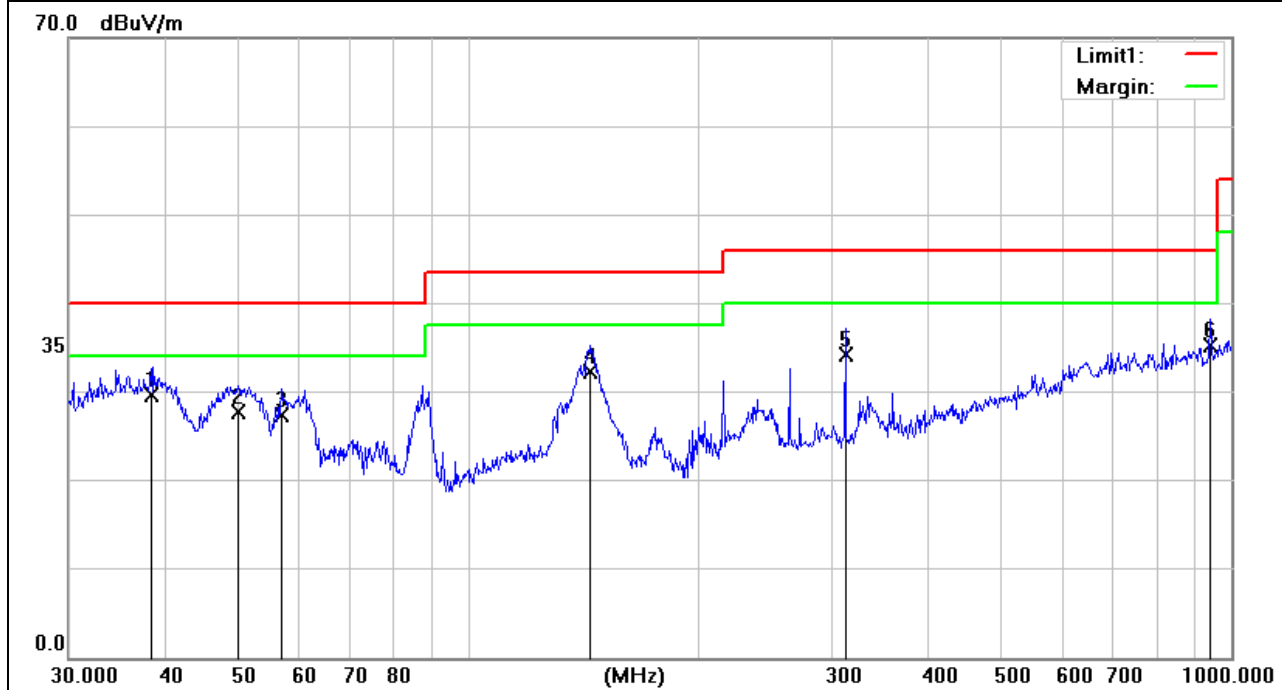
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Test Mode: 02; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	38.4809	6.75	22.90	29.65	40.00	-10.35	200	213	QP
2	50.0566	9.96	17.72	27.68	40.00	-12.32	100	71	QP
3	56.9912	11.84	15.52	27.36	40.00	-12.64	100	35	QP
4	144.8418	14.26	18.07	32.33	43.50	-11.17	100	9	QP
5	312.1794	13.29	20.93	34.22	46.00	-11.78	100	352	QP
6	938.8326	5.95	29.24	35.19	46.00	-10.81	200	63	QP



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# Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000190602

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## 7.12 99% Bandwidth

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

### 7.12.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.5 °C Humidity: 58.5 % RH Atmospheric Pressure: 1010 mbar

### 7.12.2 Test Mode Description

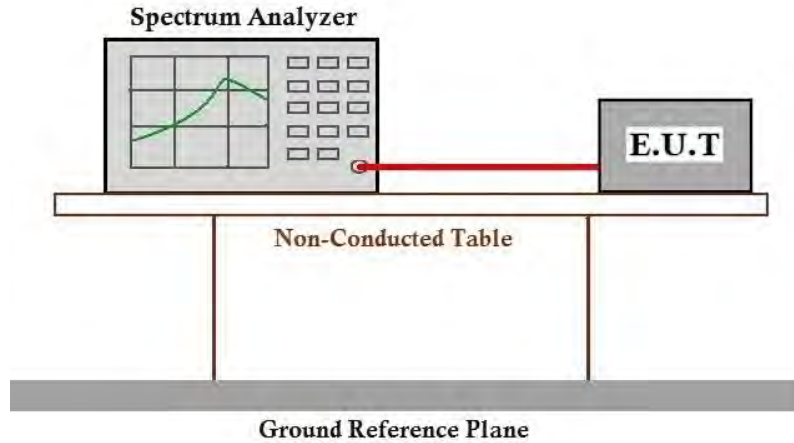
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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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		recorded in the report.
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### 7.12.3 Test Setup Diagram



### 7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2210001906AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2210001906AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.393	1.454	95.80	0.19	0.03
		5200	1.393	1.455	95.74	0.19	0.03
		5240	1.393	1.455	95.74	0.19	0.03
		5260	1.393	1.455	95.74	0.19	0.03
		5300	1.393	1.455	95.74	0.19	0.07
		5320	1.393	1.455	95.74	0.19	0.03
		5500	1.393	1.454	95.80	0.19	0.04
		5580	1.393	1.454	95.80	0.19	0.07
		5700	1.393	1.455	95.74	0.19	0.03
		5745	1.393	1.454	95.80	0.19	0.03
		5785	1.392	1.454	95.74	0.19	0.03
5825	1.392	1.454	95.74	0.19	0.03		
802.11n (HT20)	MIMO	5180	1.301	1.363	95.45	0.20	0.07
		5200	1.301	1.363	95.45	0.20	0.03
		5240	1.301	1.363	95.45	0.20	0.03
		5260	1.301	1.363	95.45	0.20	0.03
		5300	1.301	1.363	95.45	0.20	0.03
		5320	1.300	1.362	95.45	0.20	0.03
		5500	1.300	1.362	95.45	0.20	0.03
		5580	1.301	1.362	95.52	0.20	0.03
		5700	1.301	1.363	95.45	0.20	0.03
		5745	1.301	1.362	95.52	0.20	0.03
		5785	1.302	1.363	95.52	0.20	0.03
5825	1.301	1.363	95.45	0.20	0.03		
802.11n (HT40)	MIMO	5190	0.649	0.710	91.41	0.39	0.00
		5230	0.648	0.710	91.27	0.40	0.07
		5270	0.649	0.710	91.41	0.39	0.03
		5310	0.649	0.710	91.41	0.39	0.07
		5510	0.649	0.710	91.41	0.39	0.00
		5550	0.648	0.710	91.27	0.40	0.03
		5670	0.649	0.711	91.28	0.40	0.03



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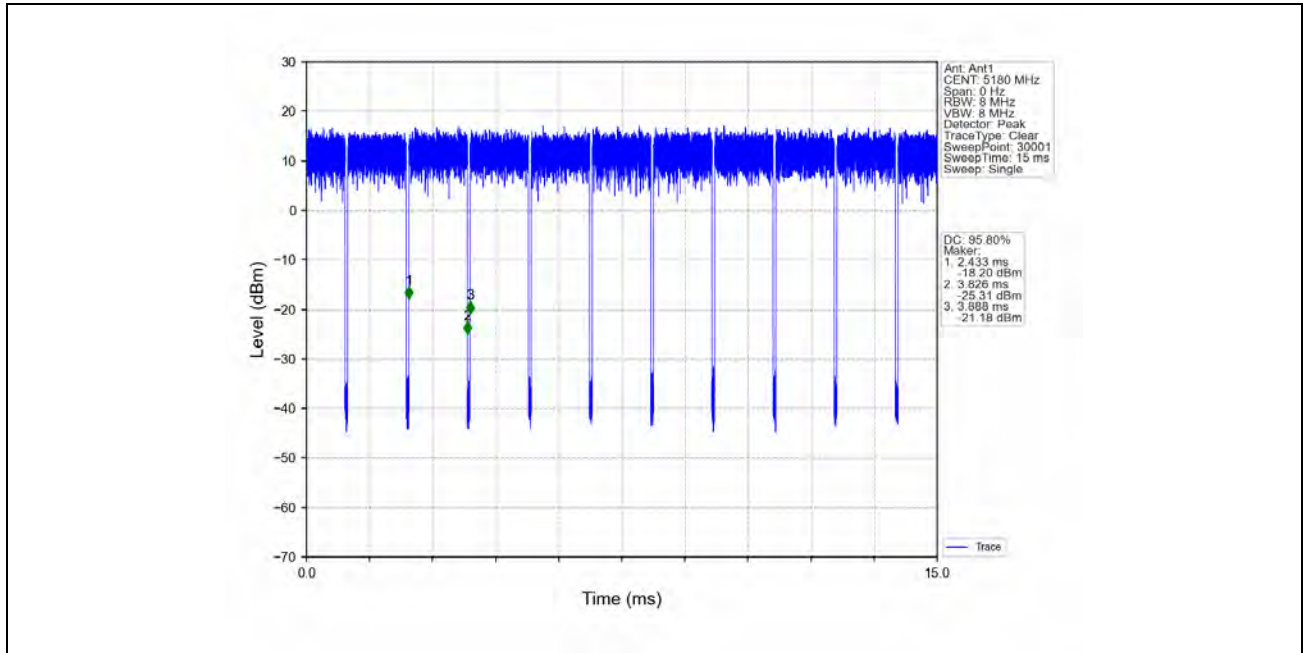
		5755	0.649	0.710	91.41	0.39	0.03
		5795	0.649	0.711	91.28	0.40	0.06
802.11ac (VHT20)	MIMO	5180	1.313	1.374	95.56	0.20	0.03
		5200	1.312	1.375	95.42	0.20	0.07
		5240	1.314	1.375	95.56	0.20	0.00
		5260	1.313	1.374	95.56	0.20	0.03
		5300	1.313	1.375	95.49	0.20	0.03
		5320	1.313	1.375	95.49	0.20	0.03
		5500	1.313	1.374	95.56	0.20	0.00
		5580	1.313	1.375	95.49	0.20	0.03
		5700	1.312	1.374	95.49	0.20	0.03
		5745	1.313	1.374	95.56	0.20	0.00
		5785	1.314	1.375	95.56	0.20	0.00
		5825	1.312	1.374	95.49	0.20	0.03
		802.11ac (VHT40)	MIMO	5190	0.652	0.714	91.32
5230	0.653			0.714	91.46	0.39	0.06
5270	0.652			0.714	91.32	0.39	0.04
5310	0.653			0.714	91.46	0.39	0.04
5510	0.653			0.714	91.46	0.39	0.03
5550	0.652			0.714	91.32	0.39	0.04
5670	0.653			0.714	91.46	0.39	0.03
5755	0.653			0.715	91.33	0.39	0.06
5795	0.652	0.714	91.32	0.39	0.04		
802.11ac (VHT80)	MIMO	5210	0.325	0.386	84.20	0.75	0.07
		5290	0.325	0.386	84.20	0.75	0.06
		5530	0.325	0.386	84.20	0.75	0.03
		5610	0.325	0.386	84.20	0.75	0.06
		5775	0.325	0.386	84.20	0.75	0.03

1.1.2 Test Graph

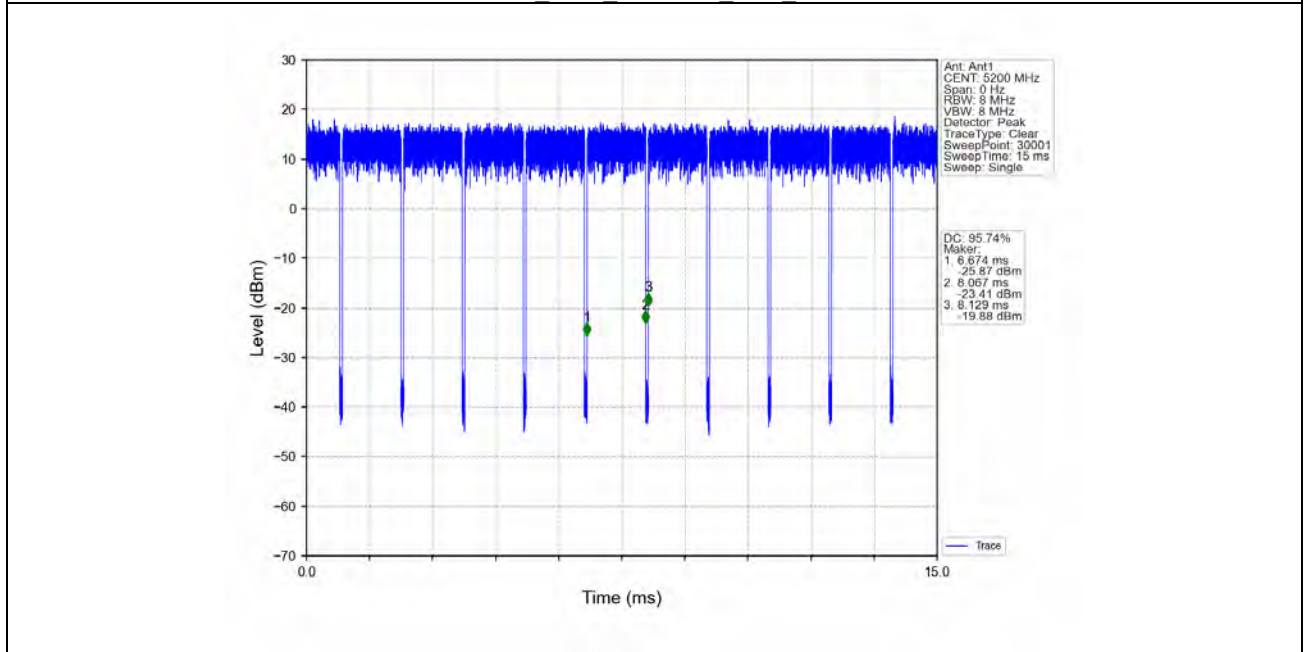
802.11a_LCH_5180MHz_Ant1_NTNV
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802.11a MCH 5200MHz Ant1 NTN



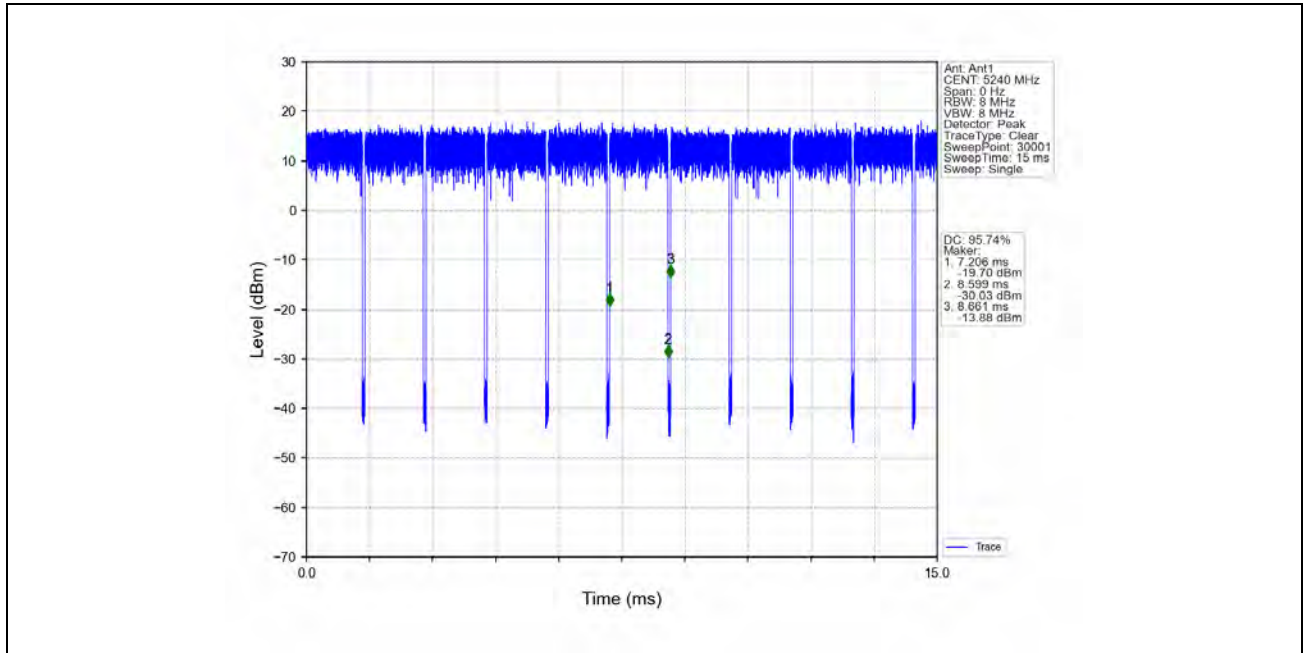
802.11a HCH 5240MHz Ant1 NTN



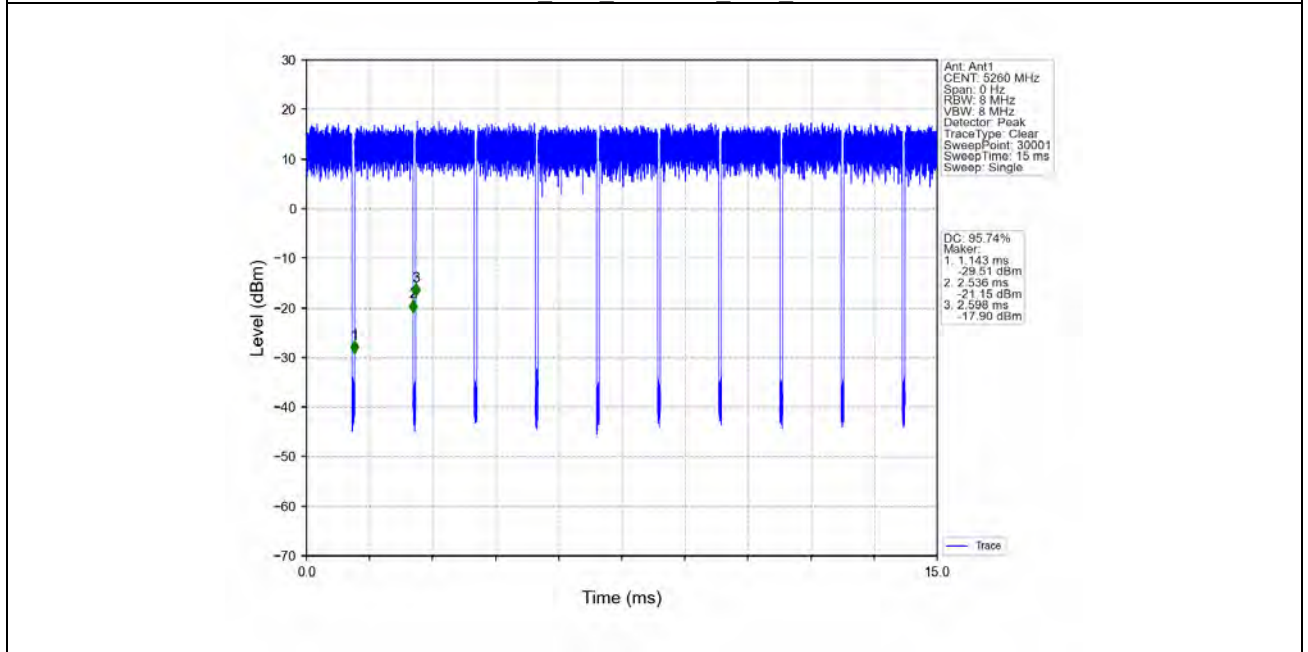
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802.11a LCH 5260MHz Ant1 NTN

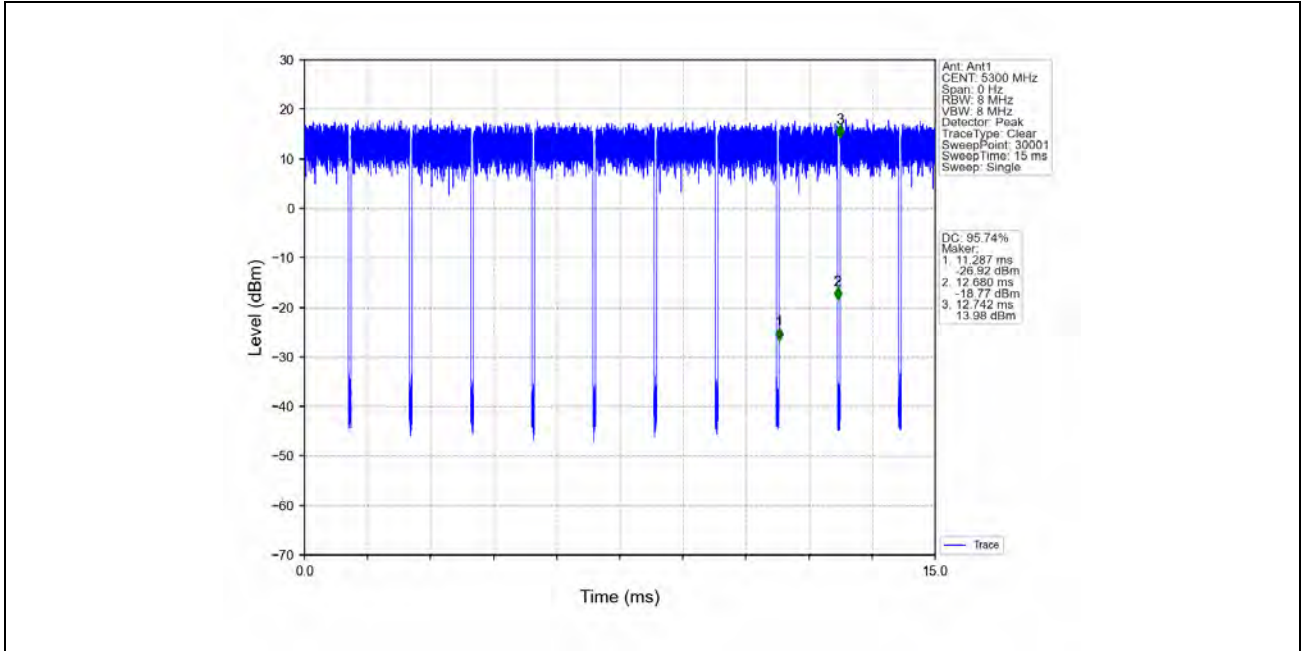


802.11a MCH 5300MHz Ant1 NTN

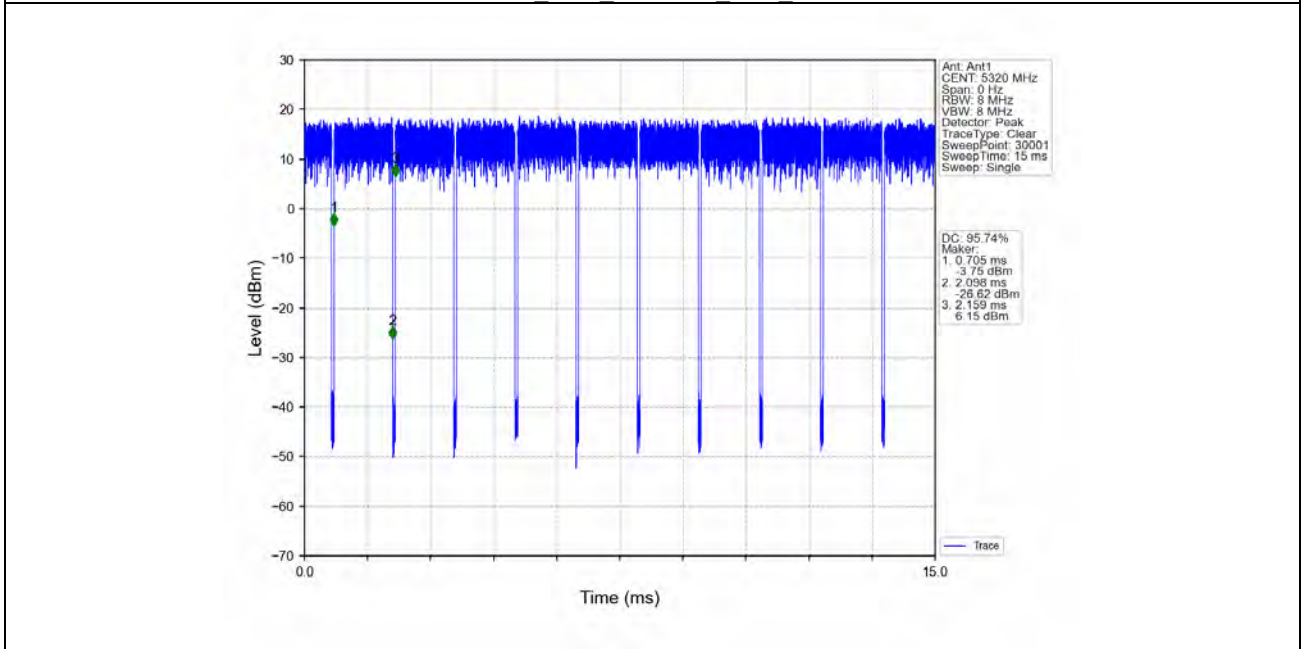


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802.11a HCH 5320MHz Ant1 NTN



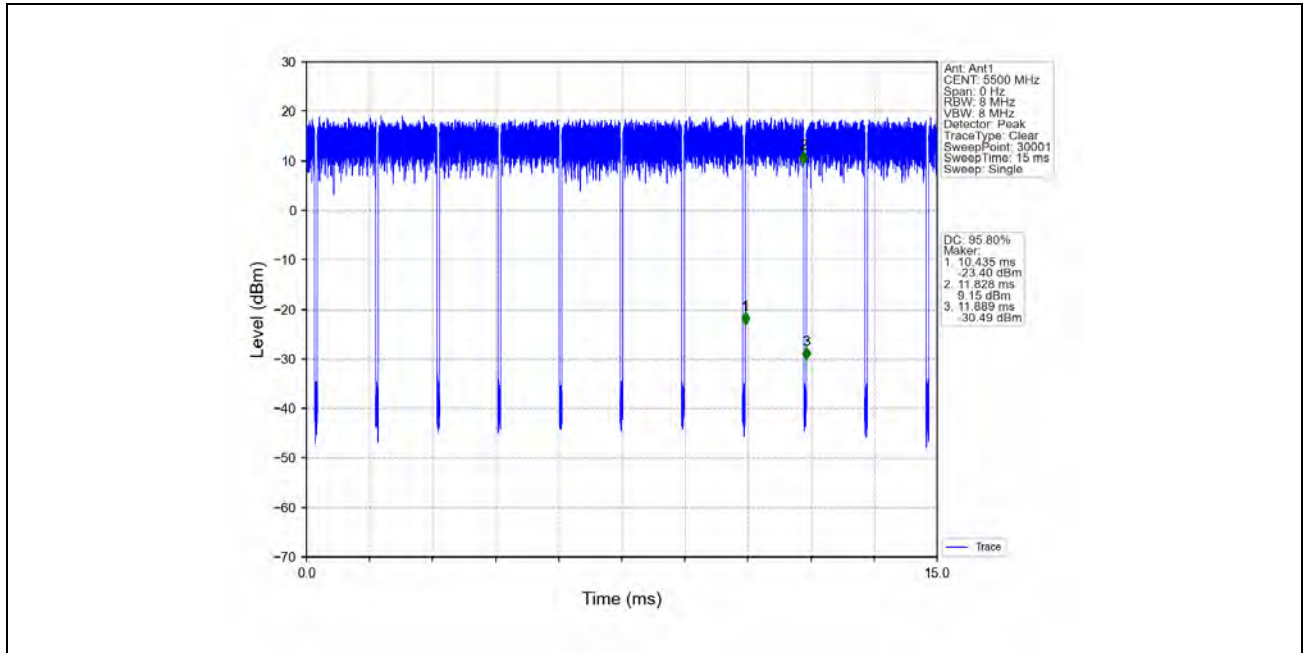
802.11a LCH 5500MHz Ant1 NTN



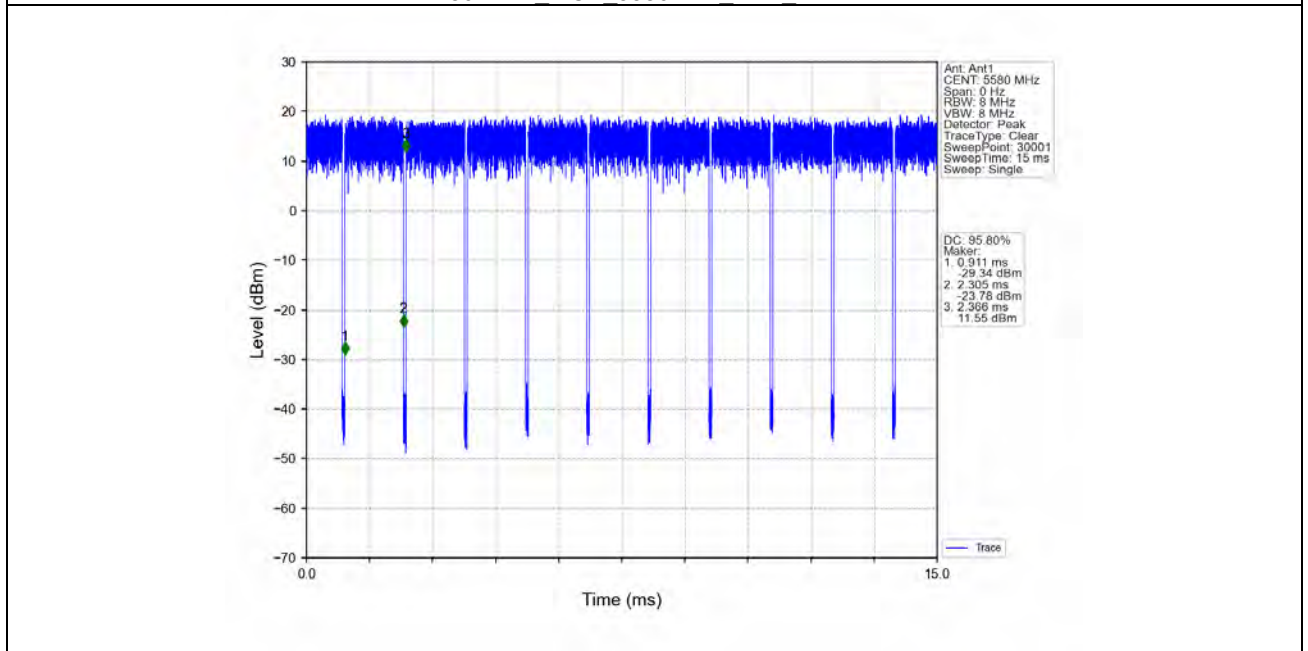
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802.11a MCH 5580MHz Ant1 NTN



802.11a HCH 5700MHz Ant1 NTN

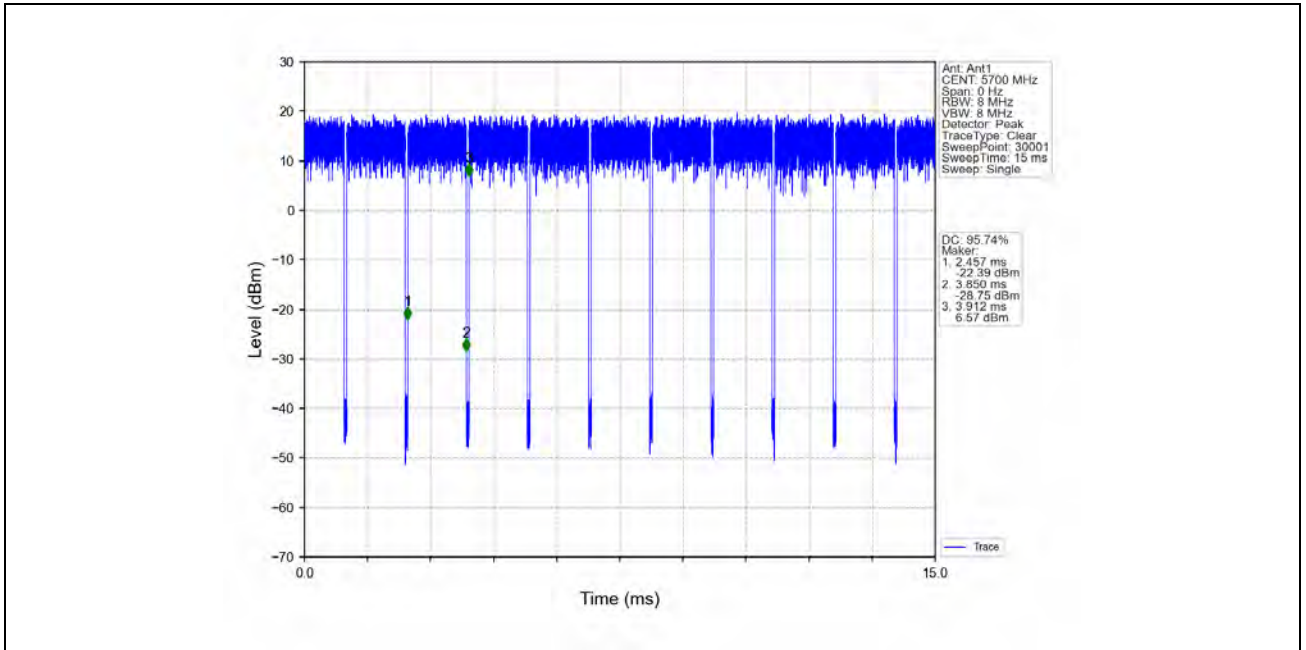


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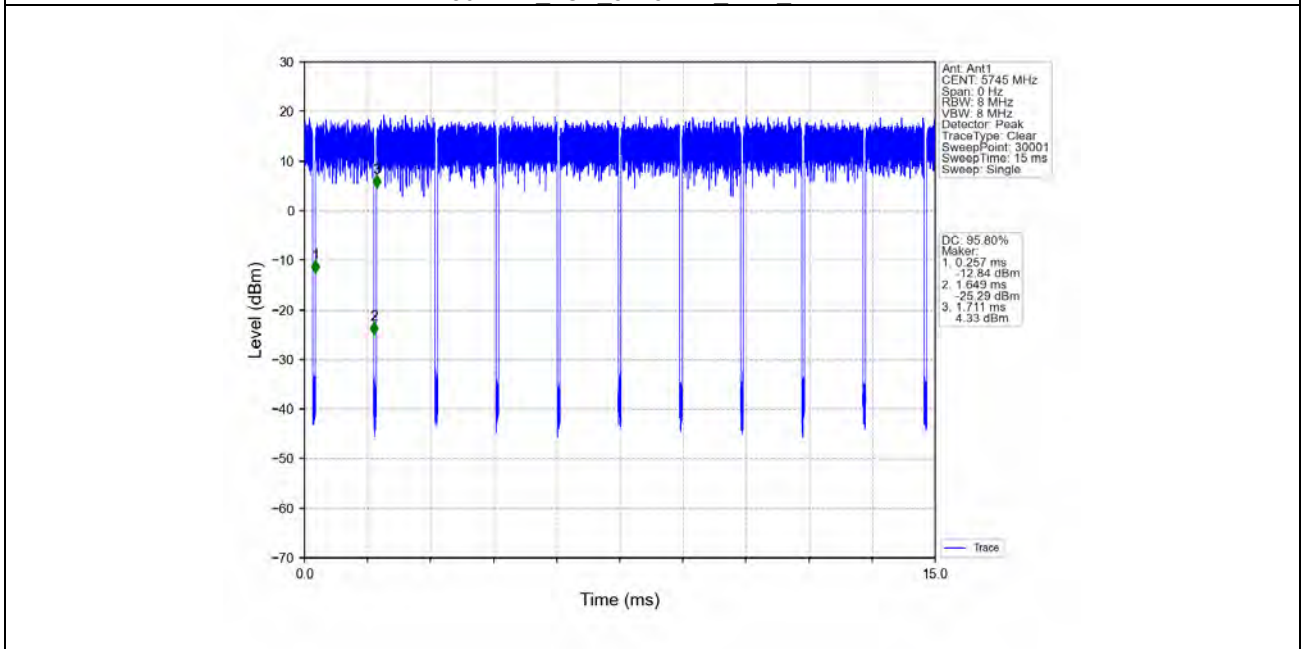
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802.11a LCH 5745MHz Ant1 NTN



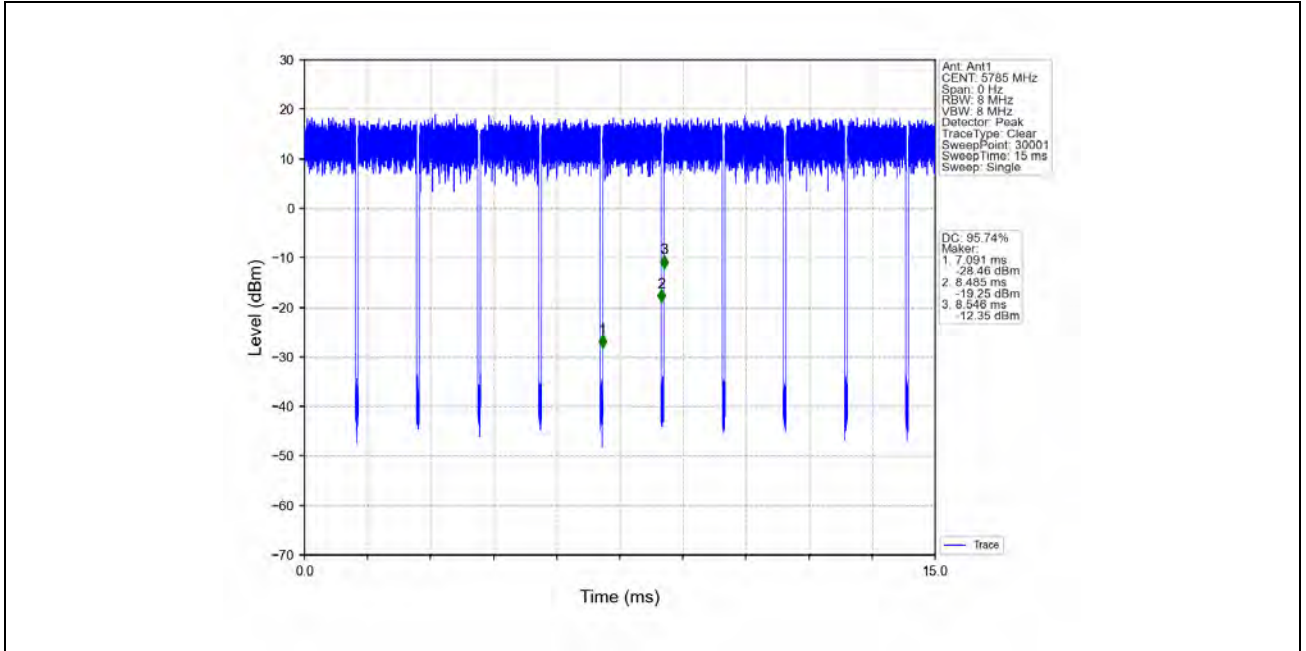
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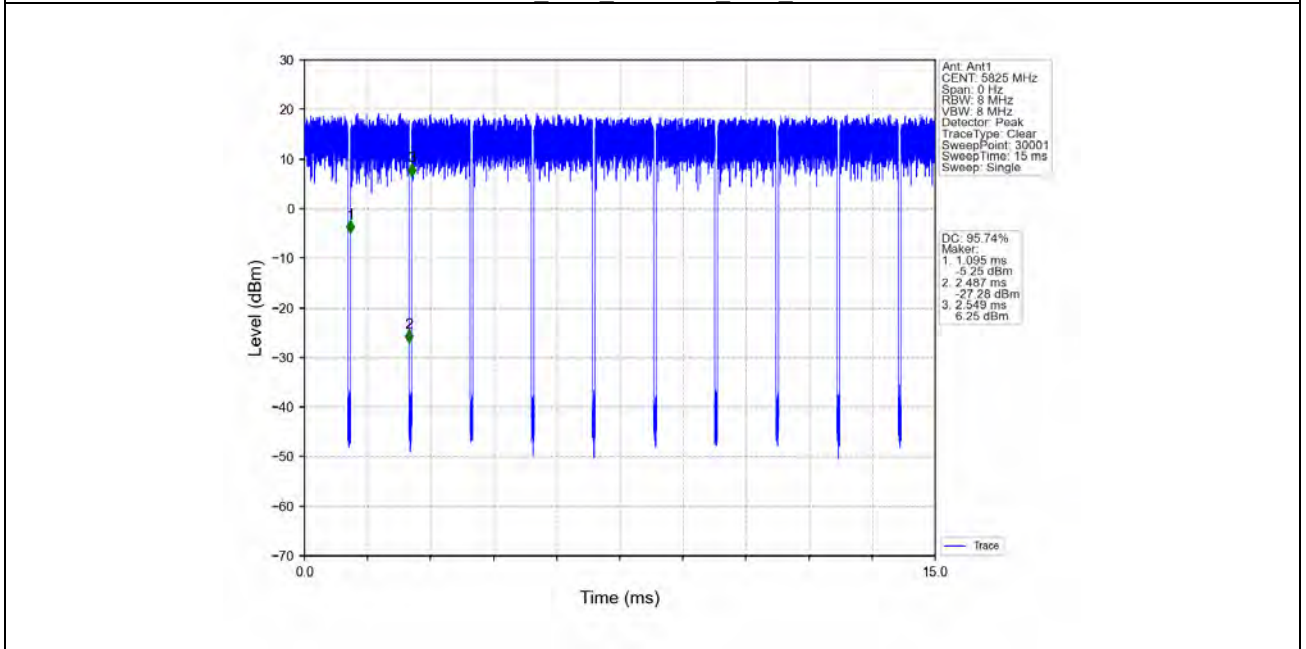
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802.11a HCH 5825MHz Ant1 NTN

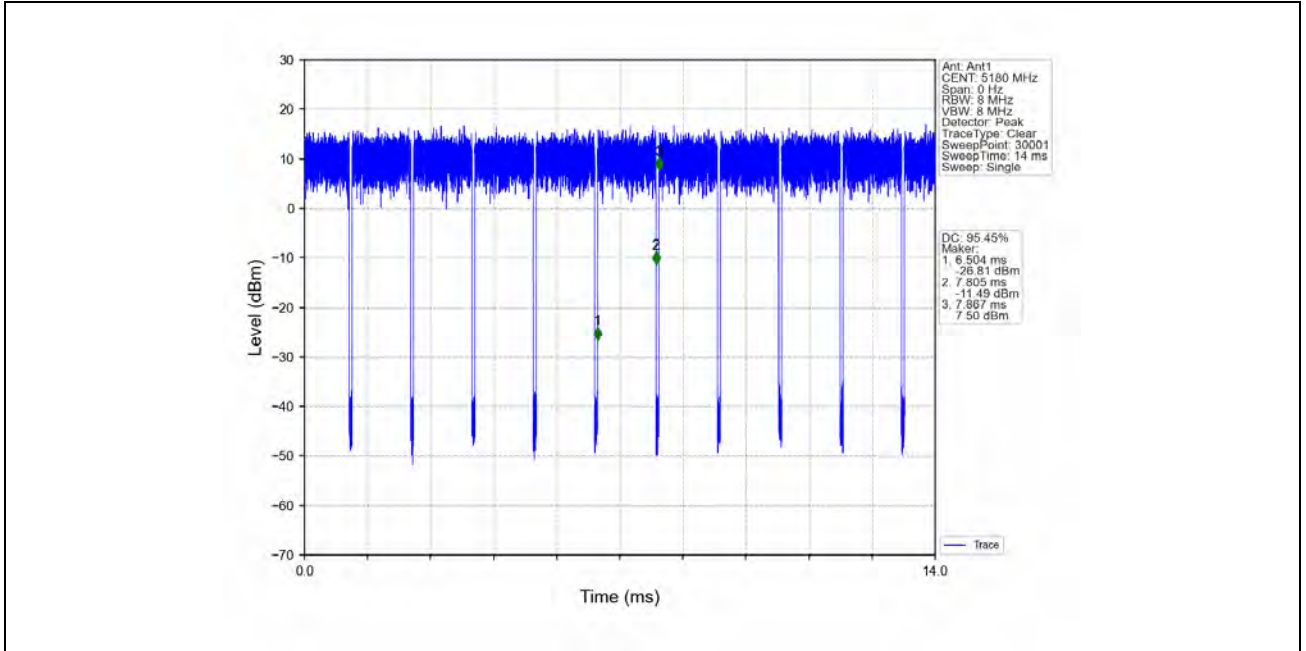


802.11n(HT20) LCH 5180MHz Ant1 NTN

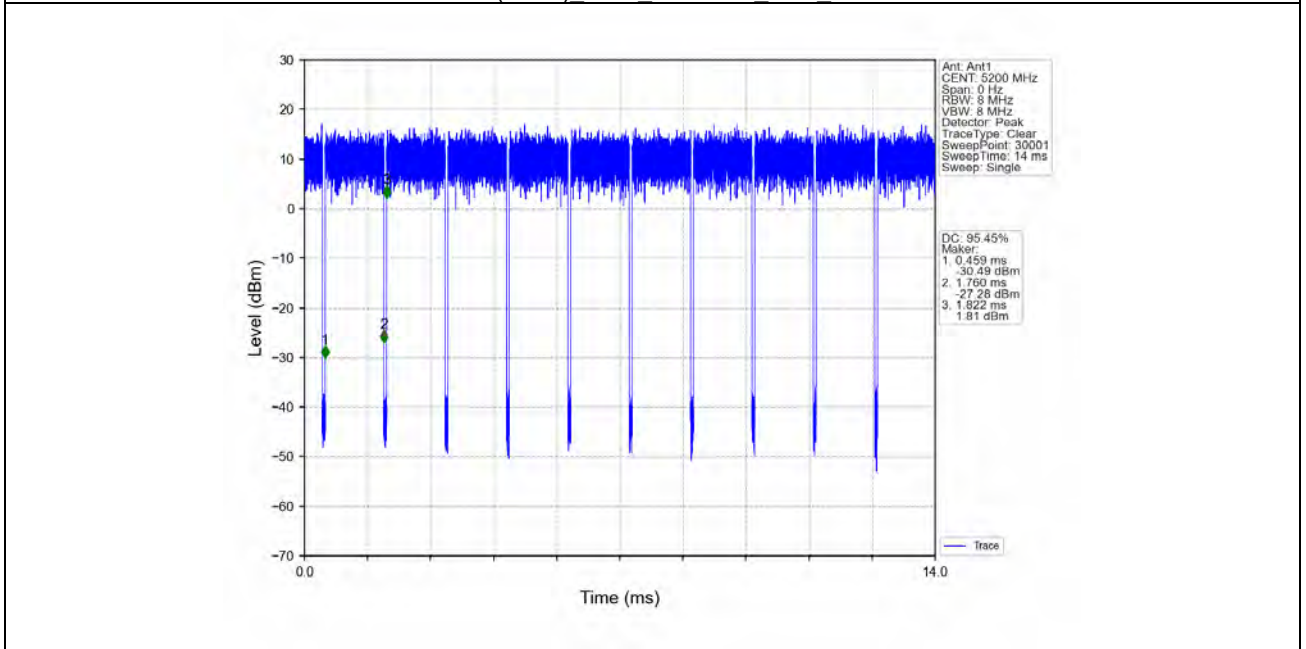


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802.11n(HT20) MCH 5200MHz Ant1 NTN



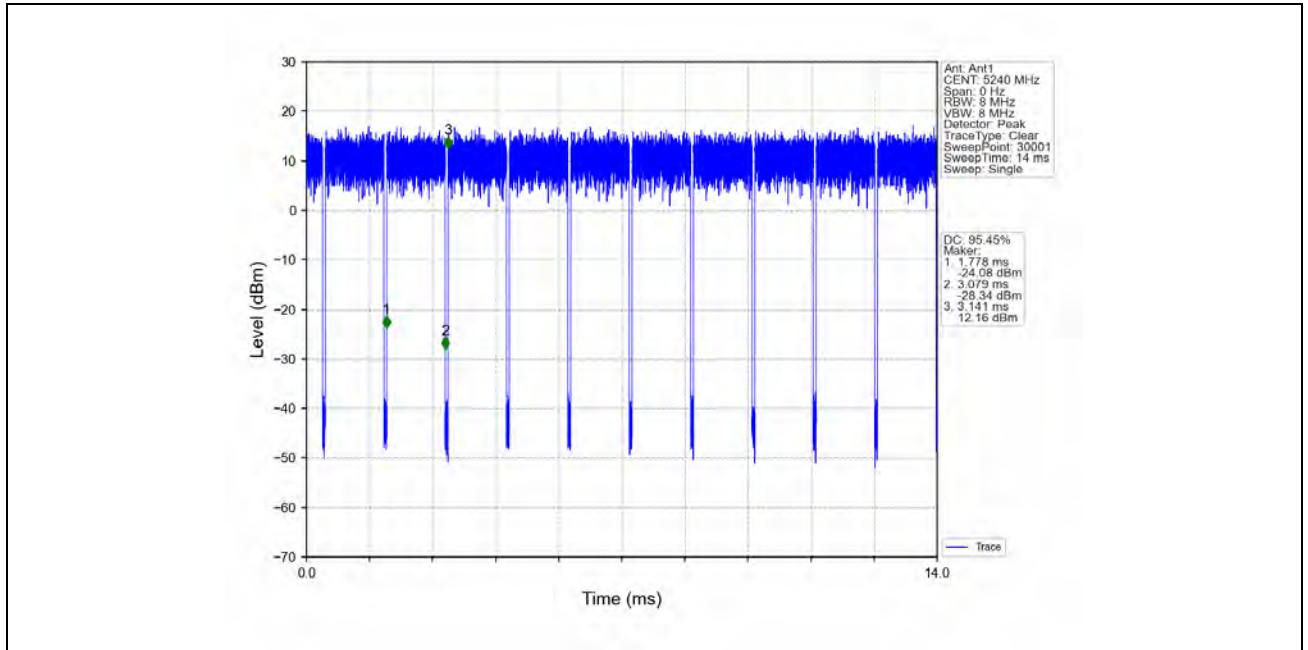
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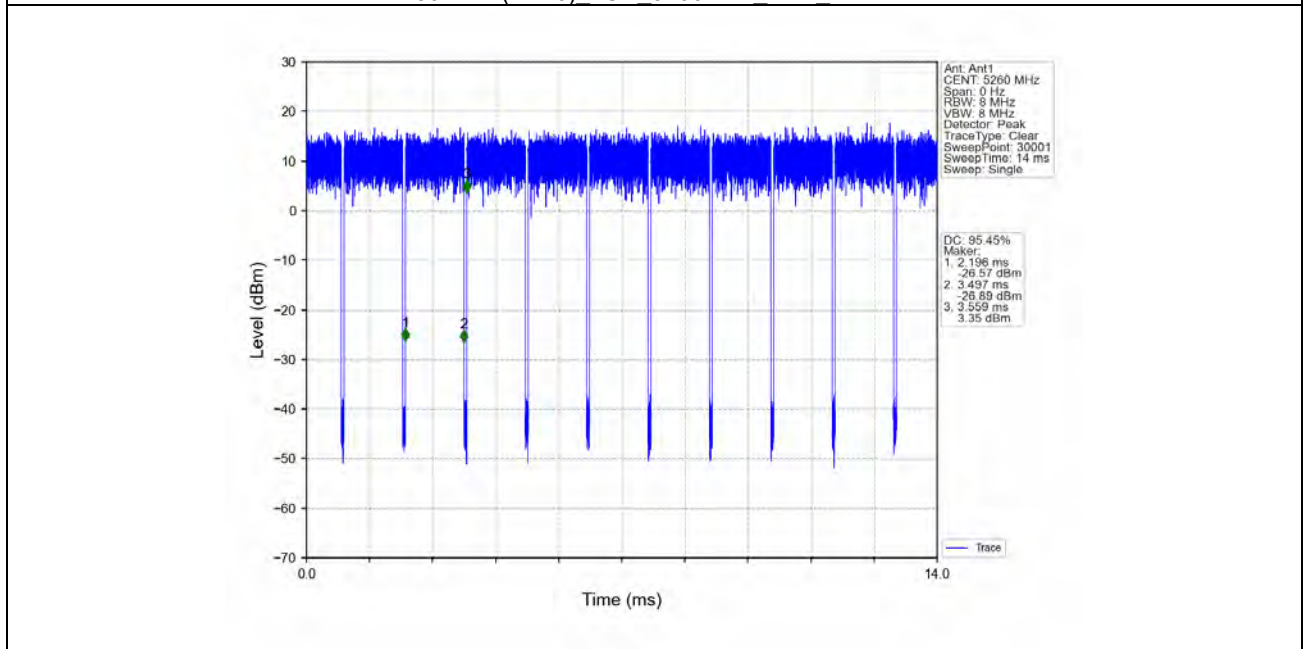
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802.11n(HT20) LCH 5260MHz Ant1 NTN



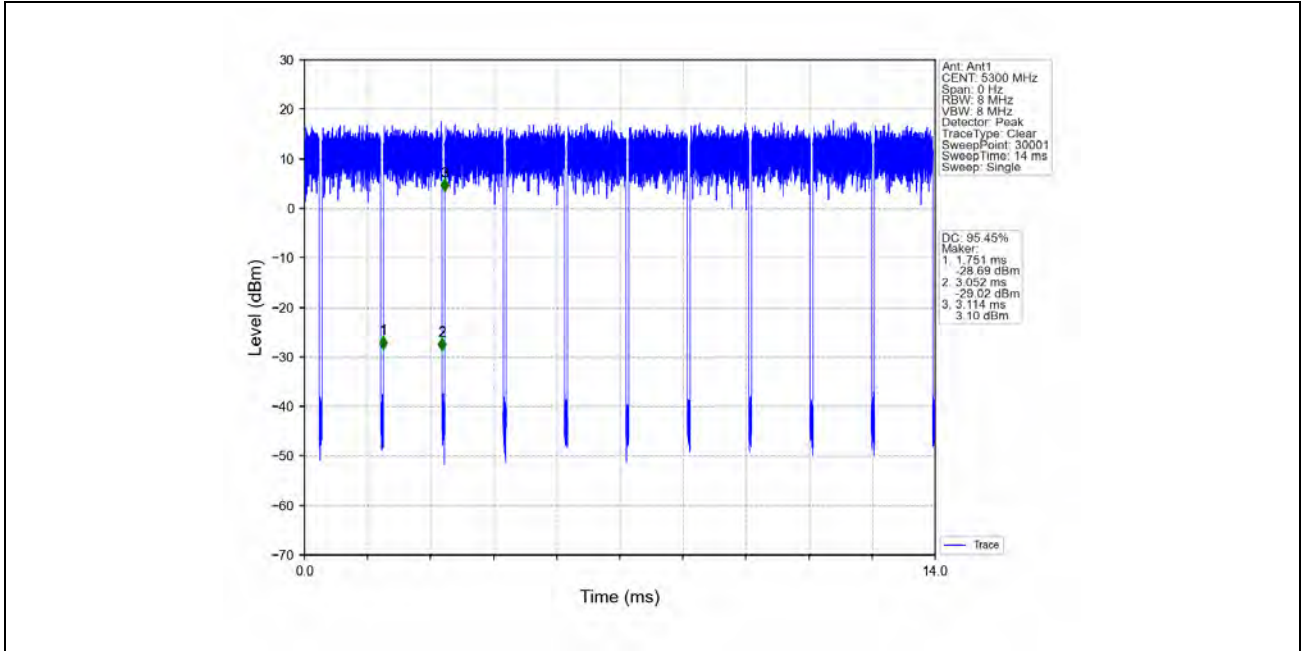
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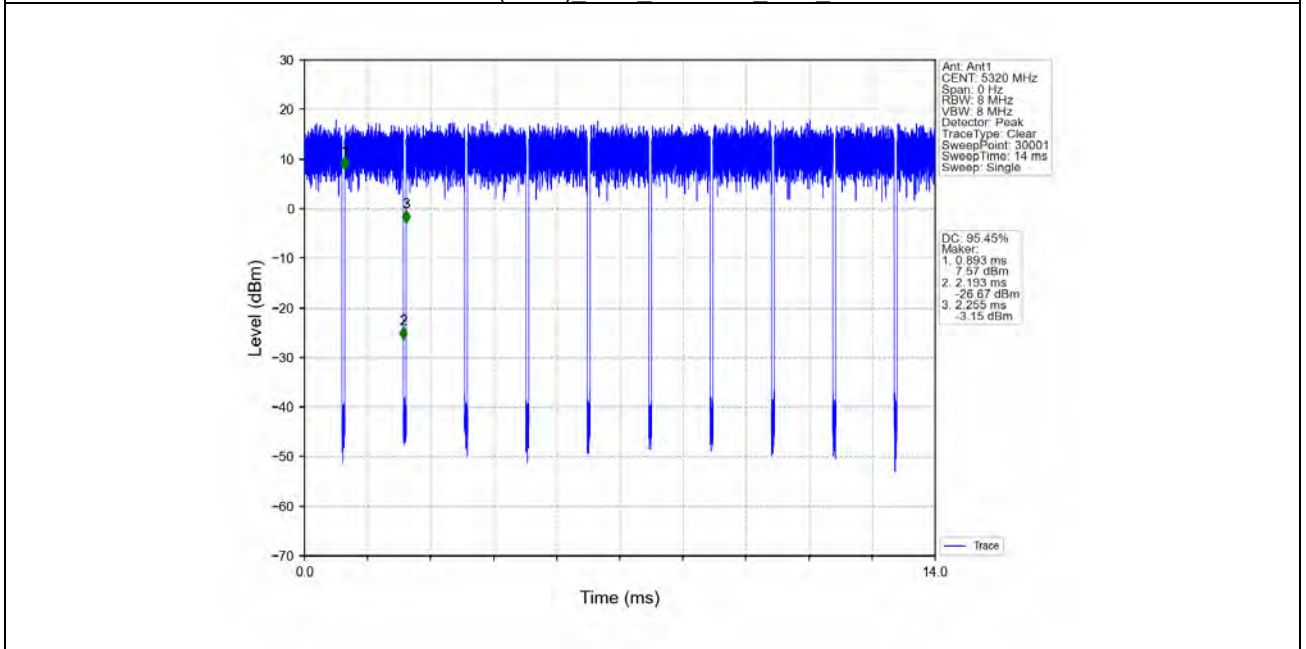
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802.11n(HT20) HCH 5320MHz Ant1 NTN



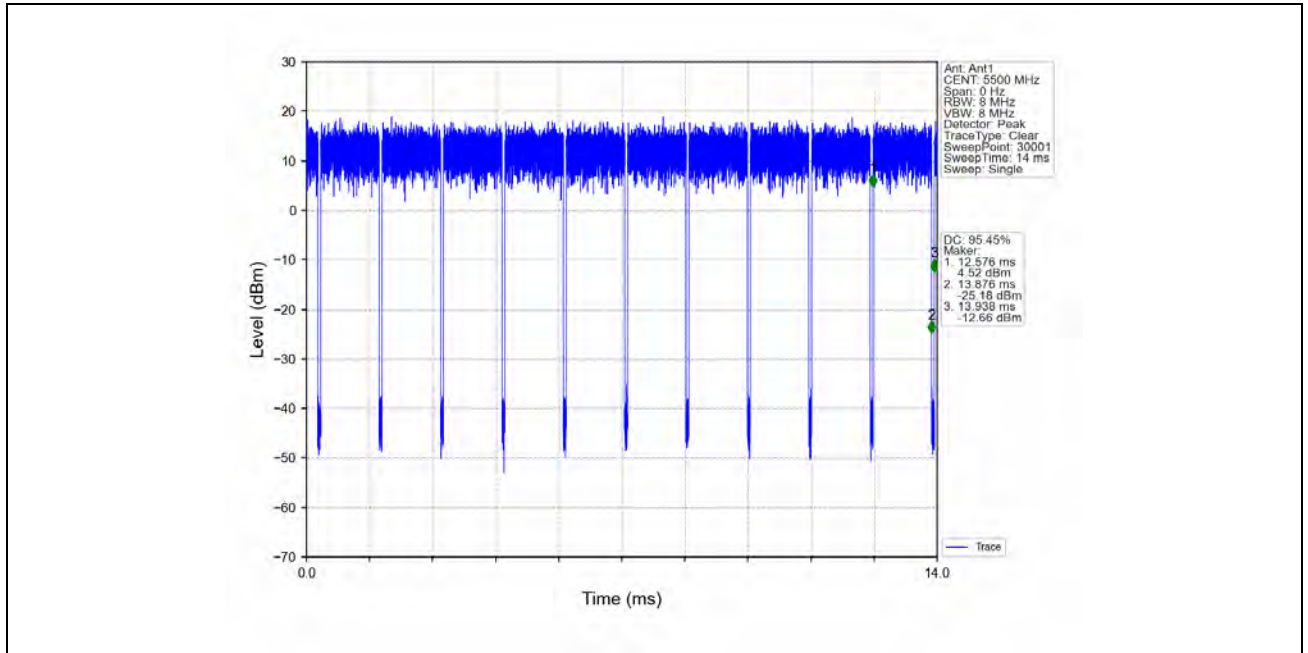
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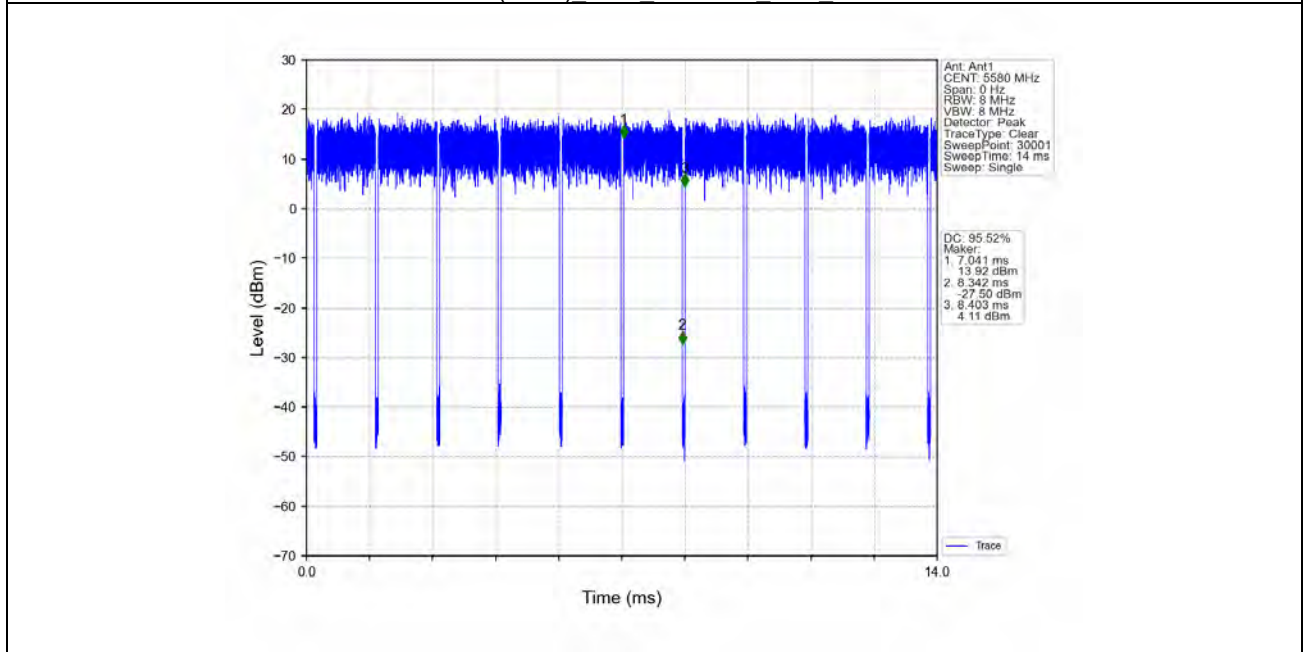
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802.11n(HT20) MCH 5580MHz Ant1 NTN



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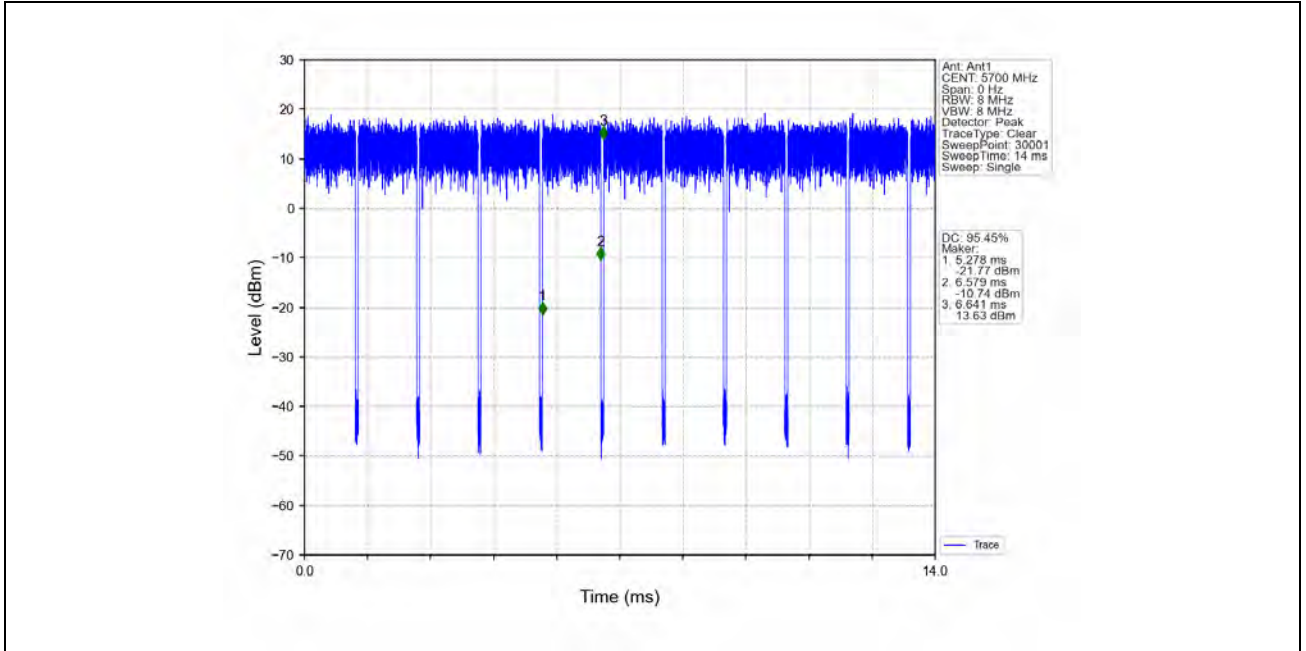
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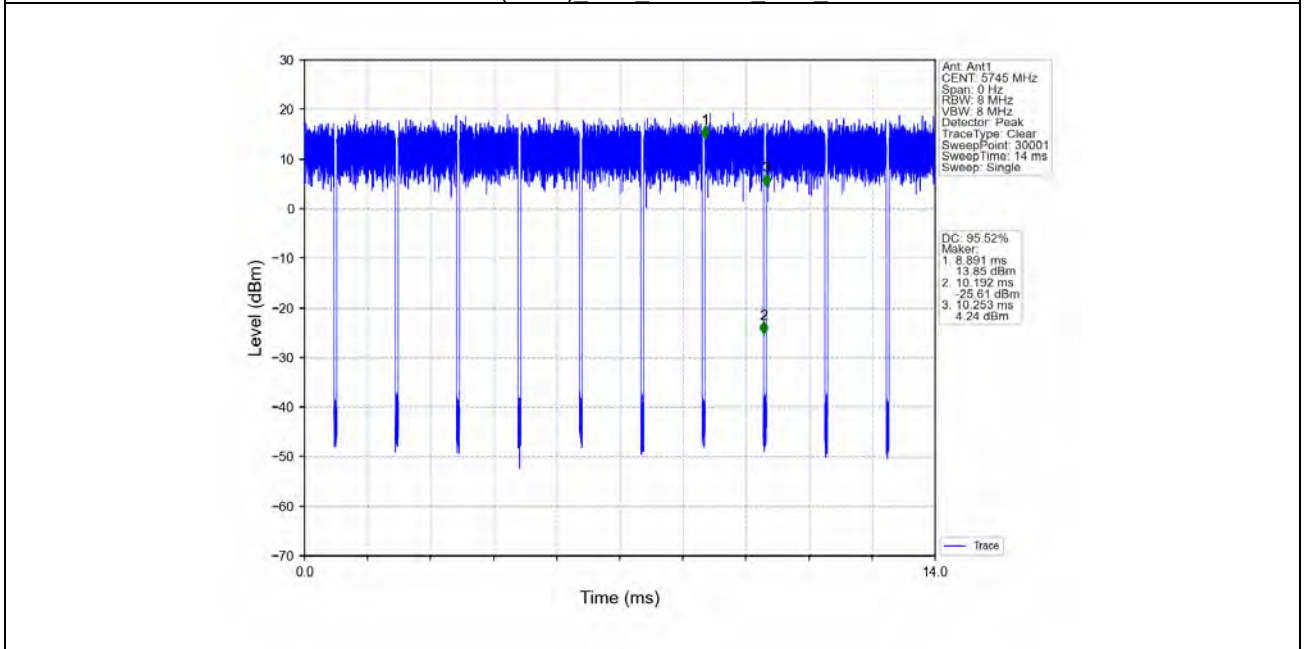
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802.11n(HT20) LCH 5745MHz Ant1 NTN



802.11n(HT20) MCH 5785MHz Ant1 NTN



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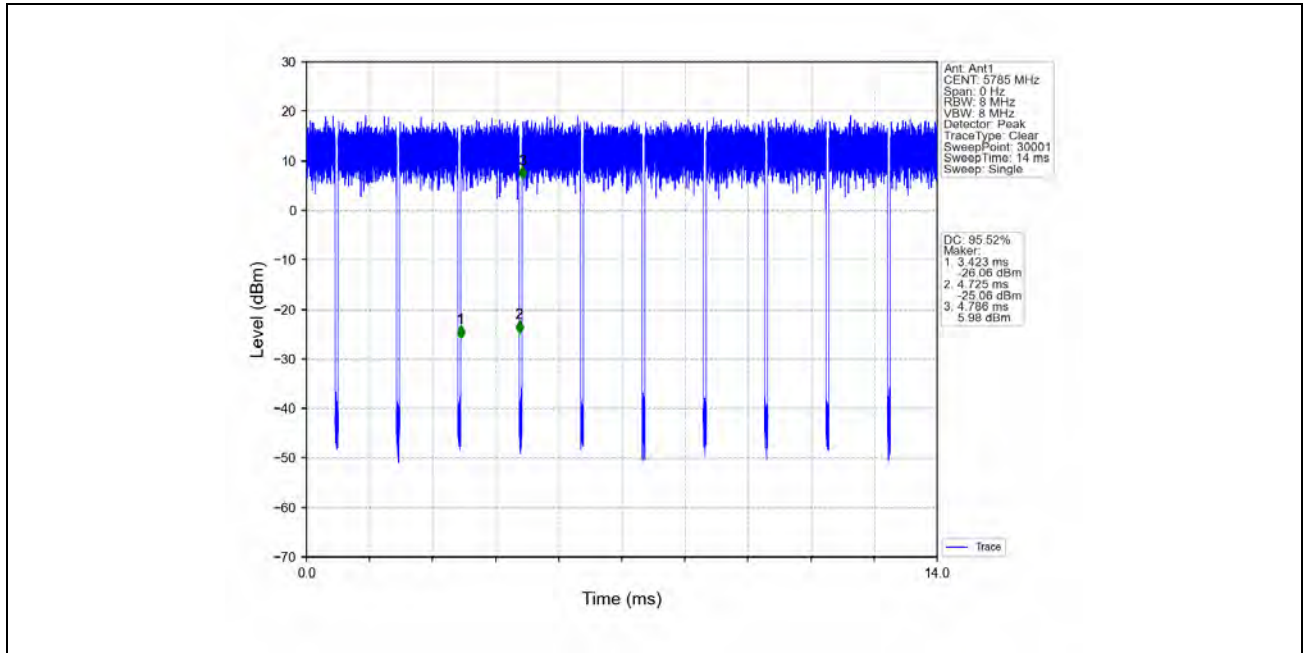
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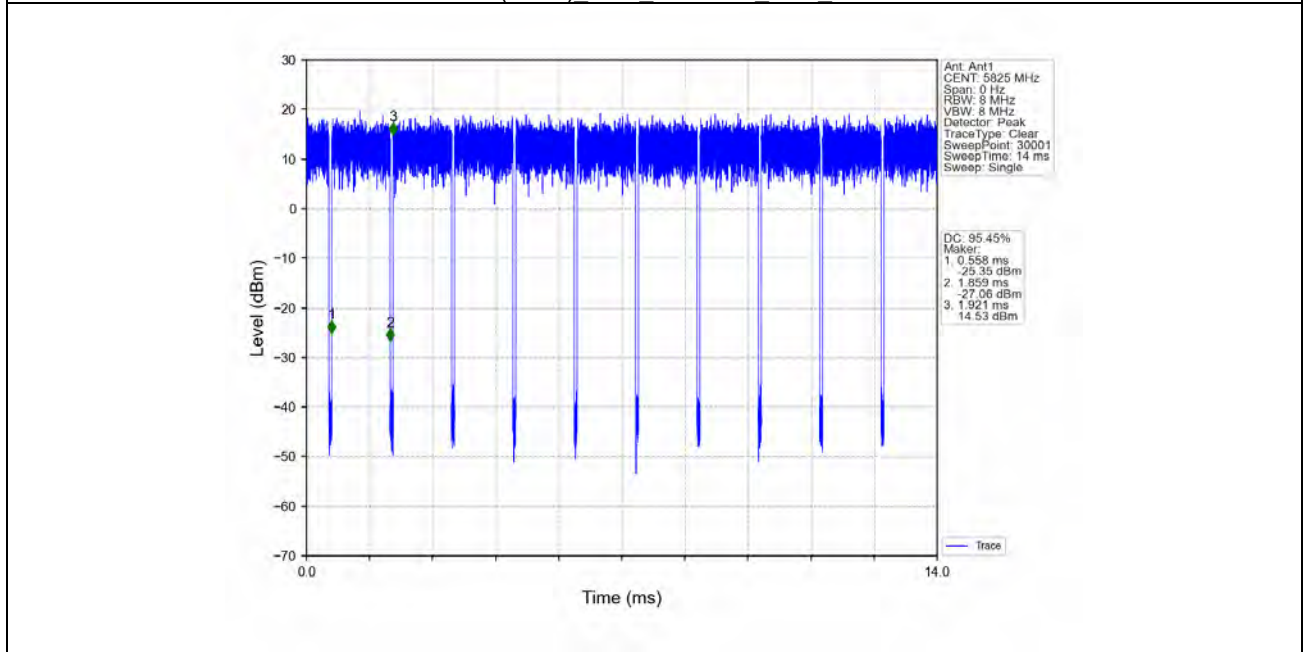
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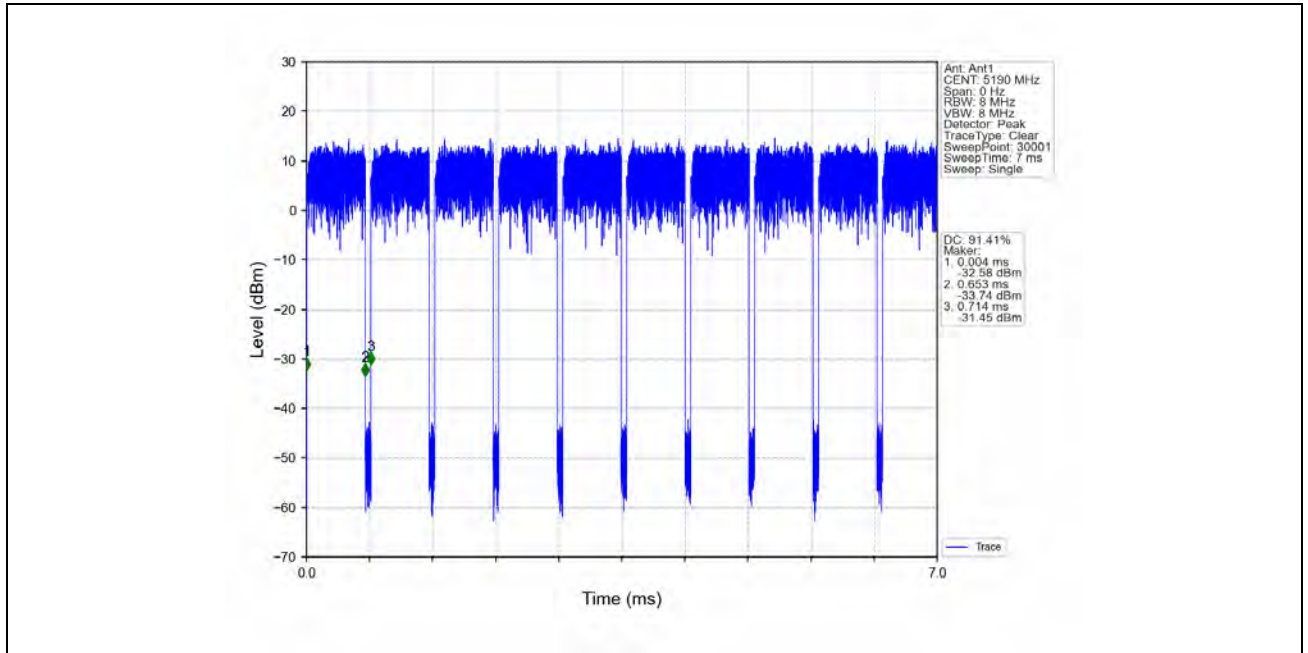
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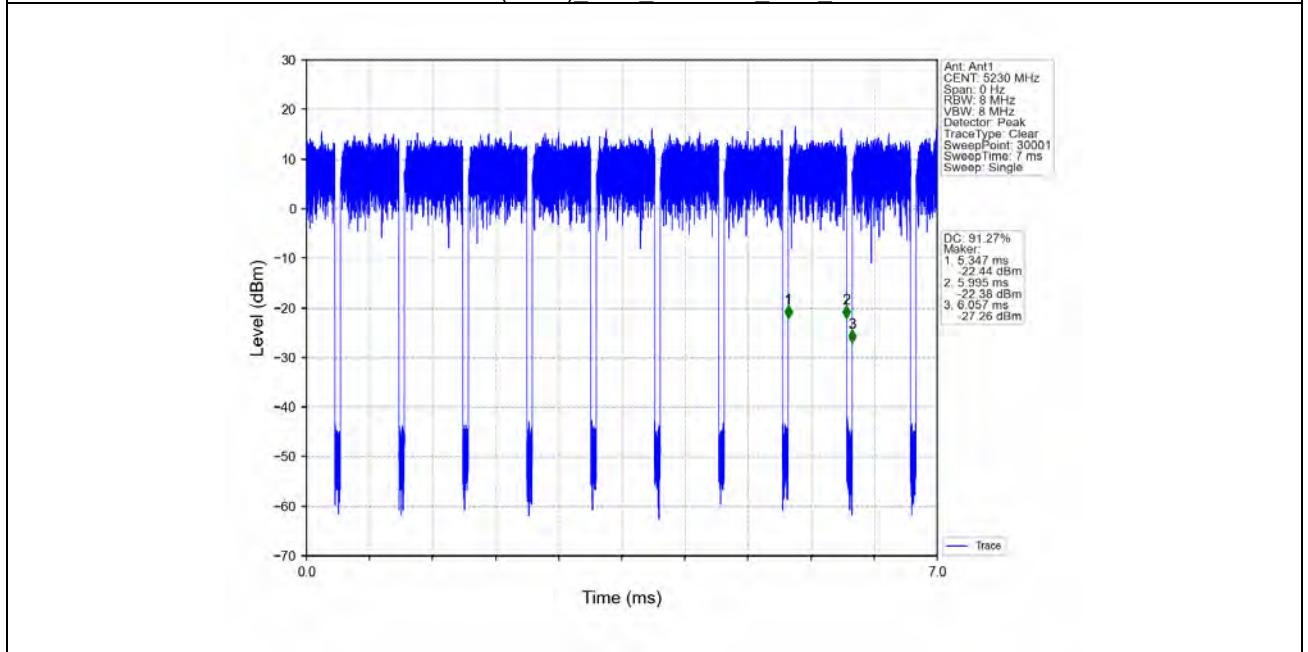
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802.11n(HT40) HCH 5230MHz Ant1 NTN



802.11n(HT40) LCH 5270MHz Ant1 NTN



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