

TEST REPORT

Application No.: KSCR2209001611AT
FCC ID: 2APJ4-SLM500
IC: 23860-SLM500
Applicant: MeiG Smart Technology Co., Ltd
Address of Applicant: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China.
Manufacturer: MeiG Smart Technology Co., Ltd
Address of Manufacturer: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China.
Equipment Under Test (EUT):
EUT Name: Smart Module
Model No.: SLM500
Trade Mark: Meig Link
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2022-09-01
Date of Test: 2022-09-01 to 2022-09-01
Date of Issue: 2022-09-02

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

Eric Lin
Laboratory Manager



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Revision Record			
Version	Description	Date	Remark
00	C2PC	2022-09-02	Based on SZCR2103000030AT Added 802.11AC

Authorized for issue by:			
		<i>Damon Zhou</i>	
		Damon_Zhou/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 6.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.8V by DC power supply
Test voltage:	DC 3.8V
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
Moudulation Type:	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11ac(VHT20): 20MHz 802.11ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz
DFS Function:	Slave without Radar detection
Antenna Type:	Dipole Antenna
Antenna Gain:	1dBi (Provided by manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC Power Supply	Laboratory	N/A	E903131
Laptop	Lenovo	/	/



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4.3 Measurement Uncertainty

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

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



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

4.5 Test Facility

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

• 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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/14/2021	11/13/2022
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	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
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	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_EMCC-v 3A1	/	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is dipole antenna and no consideration of replacement. The best case gain of the Antenna is 1dBi.

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

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 Duty Cycle

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

7.1.1 E.U.T. Operation

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

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the 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.
	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the 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.
	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

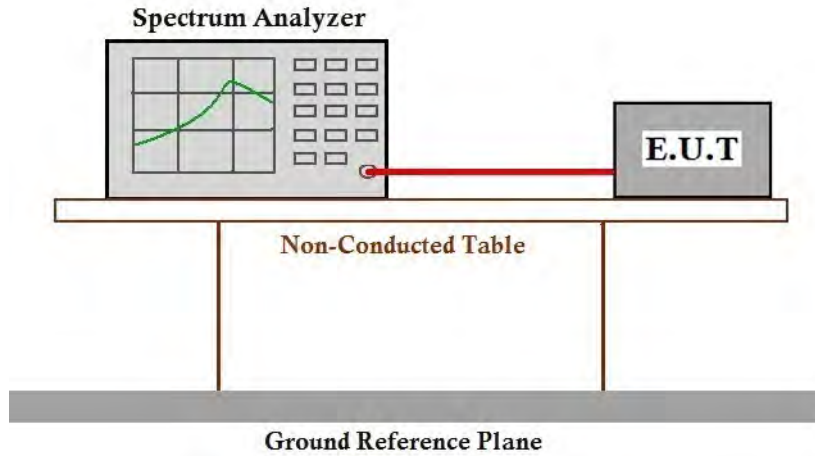


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.2 99% Bandwidth

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

7.2.1 E.U.T. Operation

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

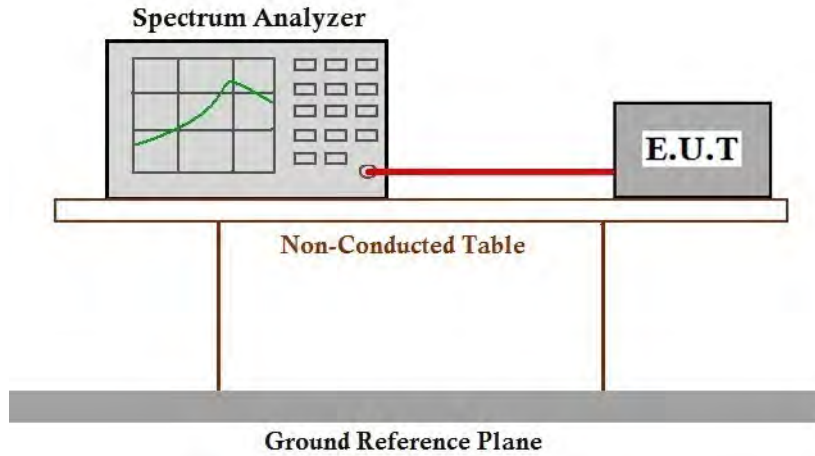
7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the 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.
	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the 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.
	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the 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 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

Operating Environment:

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

7.3.2 Test Mode Description

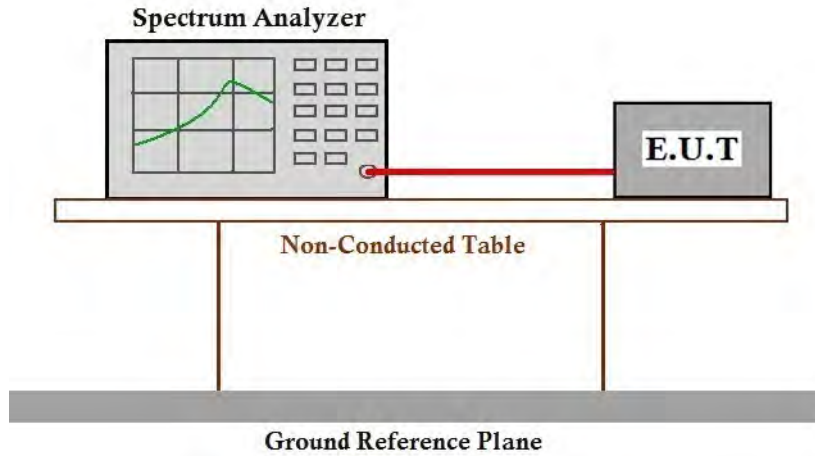
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the 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.
	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the 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 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

7.4.1 E.U.T. Operation

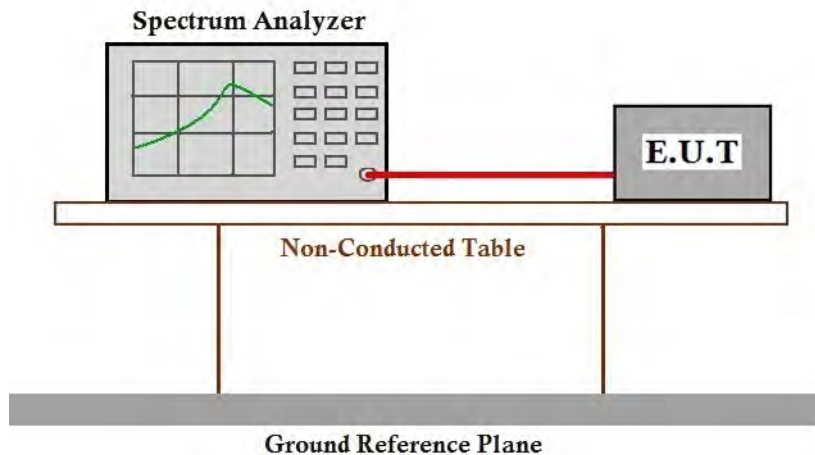
Operating Environment:

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

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

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

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the 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.
	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the 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.
	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the 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



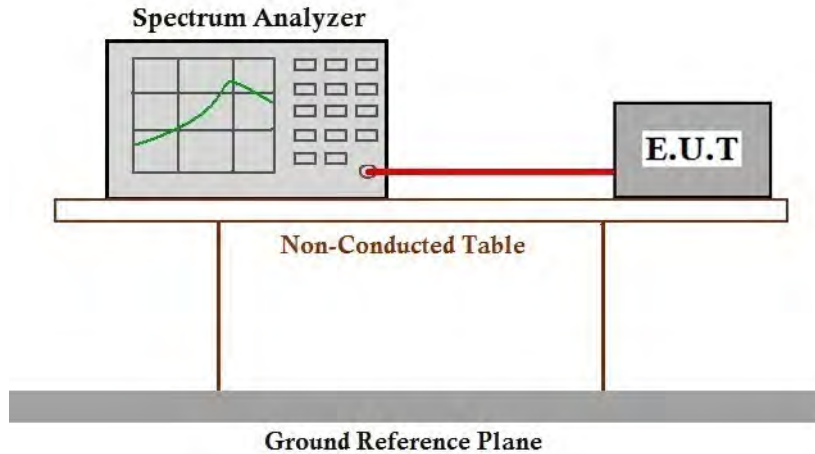
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	802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

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

7.6.2 Test Mode Description

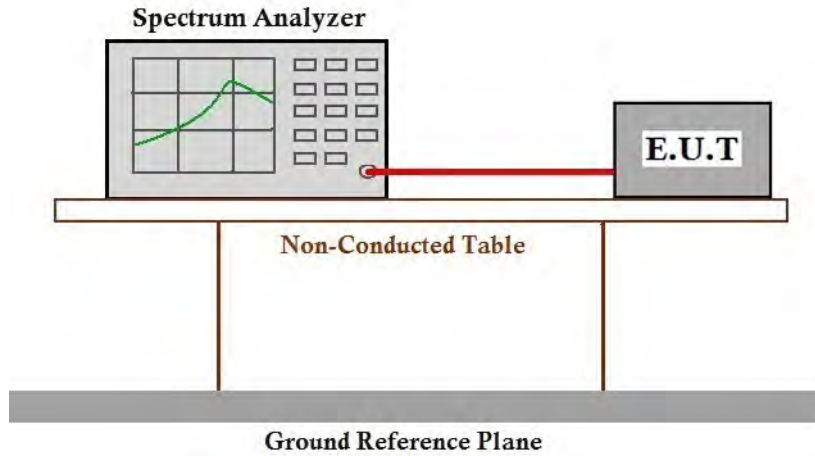
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the 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.
	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the 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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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions (Above 1GHz)

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

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

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

7.7.2 Test Mode Description

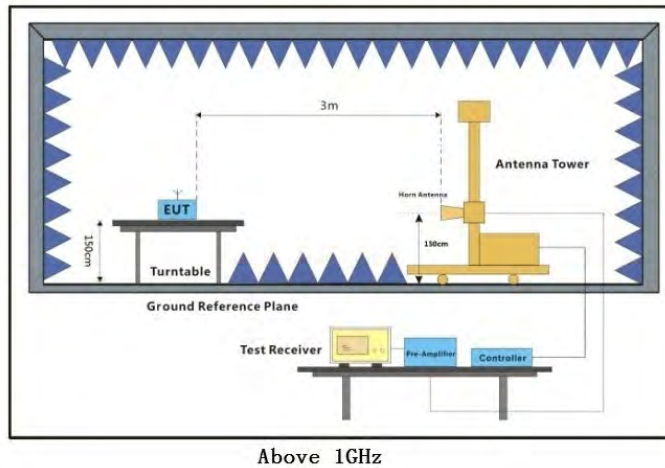
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE



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		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.
01		TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
02		TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the 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.
03		TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



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7.7.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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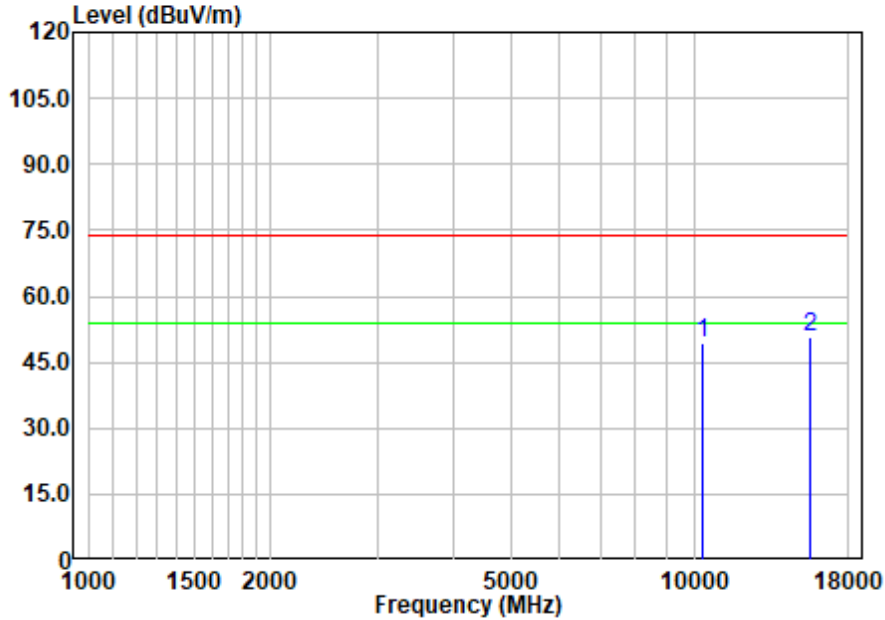
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	10360.000	12.58	37.58	49.57	74.00	-24.43 Peak
2	15540.000	14.80	40.22	50.91	74.00	-23.09 Peak



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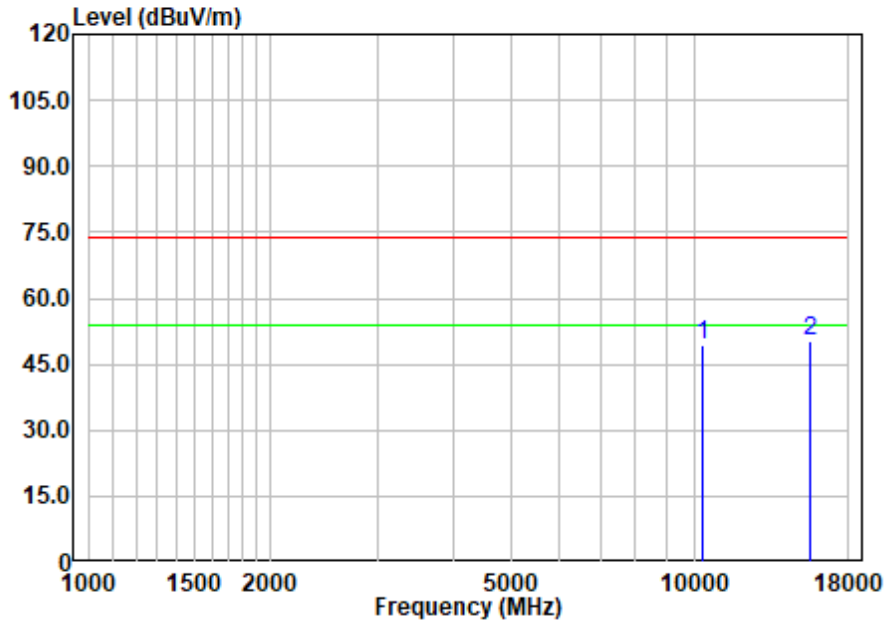
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10360.000	42.33	12.58	37.58	49.42	74.00	-24.58 Peak
2	15540.000	36.25	14.80	40.22	50.13	74.00	-23.87 Peak



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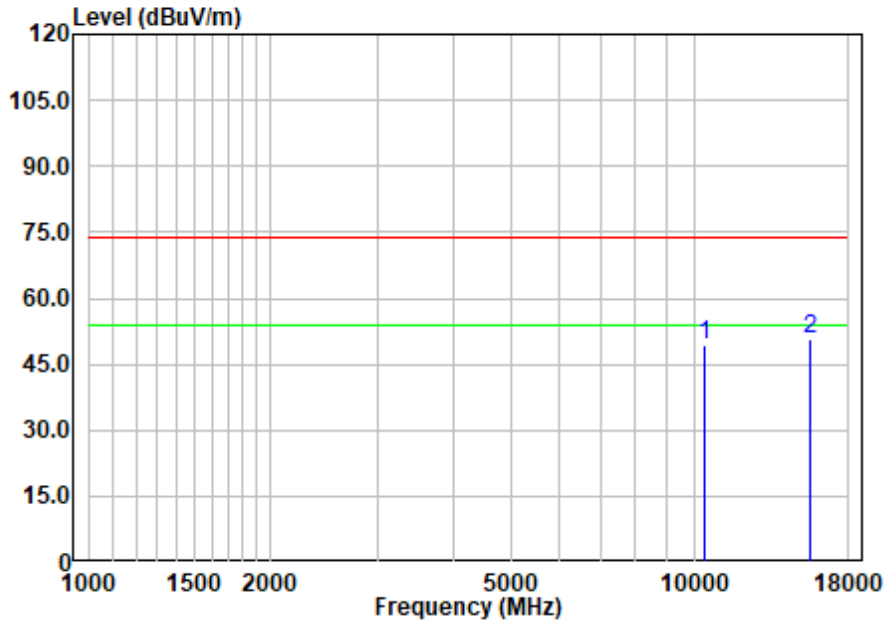
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	10400.000	42.33	12.58	37.62	49.38	74.00	-24.62 Peak
2	15600.000	36.98	14.80	40.24	50.59	74.00	-23.41 Peak



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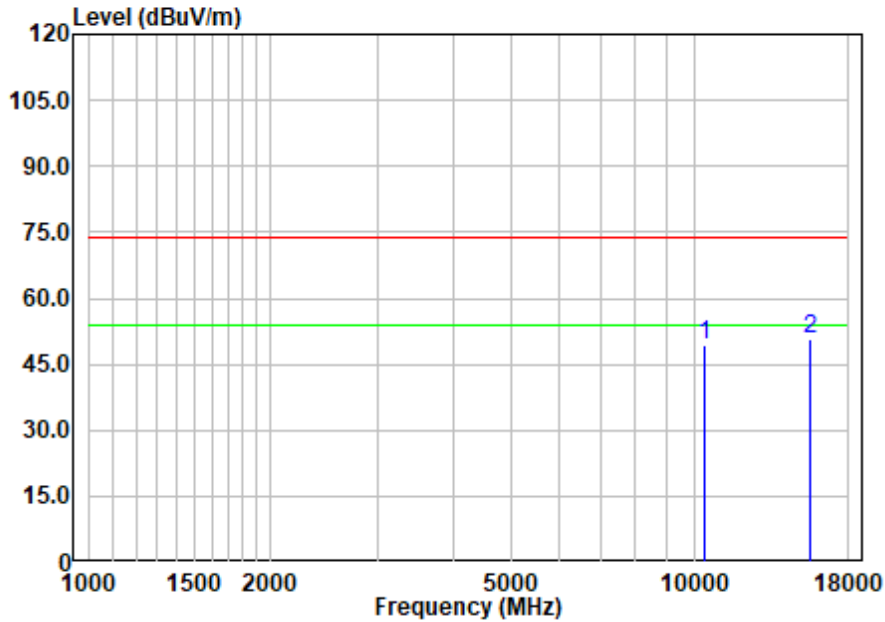
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Test Mode: 00; Polarity: Vertical; Modulation:802.11 ac; Bandwidth:20MHz; Channel:middle



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	10400.000	12.58	37.62	49.40	74.00	-24.60 Peak
2	15600.000	14.80	40.24	50.91	74.00	-23.09 Peak



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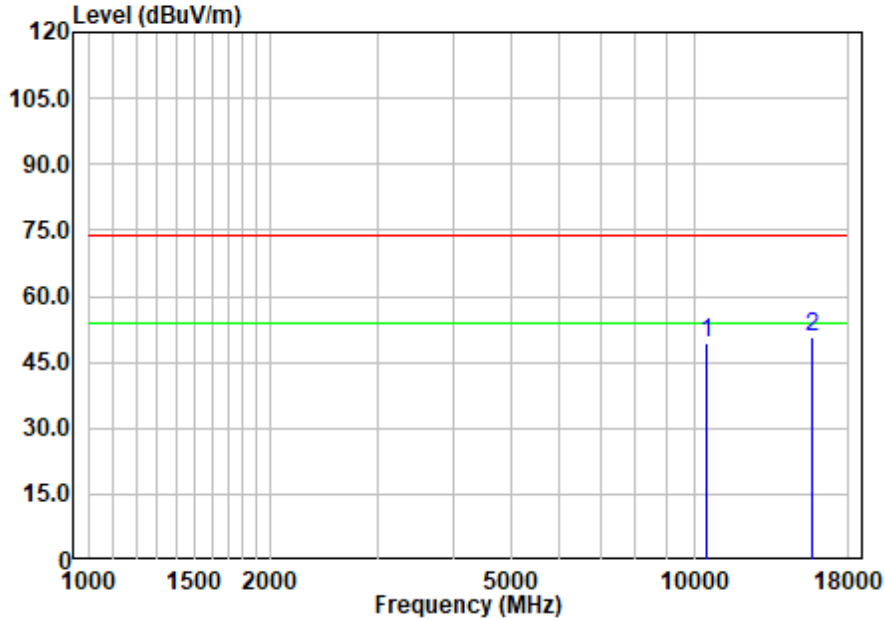
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 30 of 207

Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Read Freq	Cable Level	Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10480.000	42.08	12.60	37.69	49.54	74.00	-24.46 Peak
2	15720.000	35.66	14.81	40.29	50.68	74.00	-23.32 Peak



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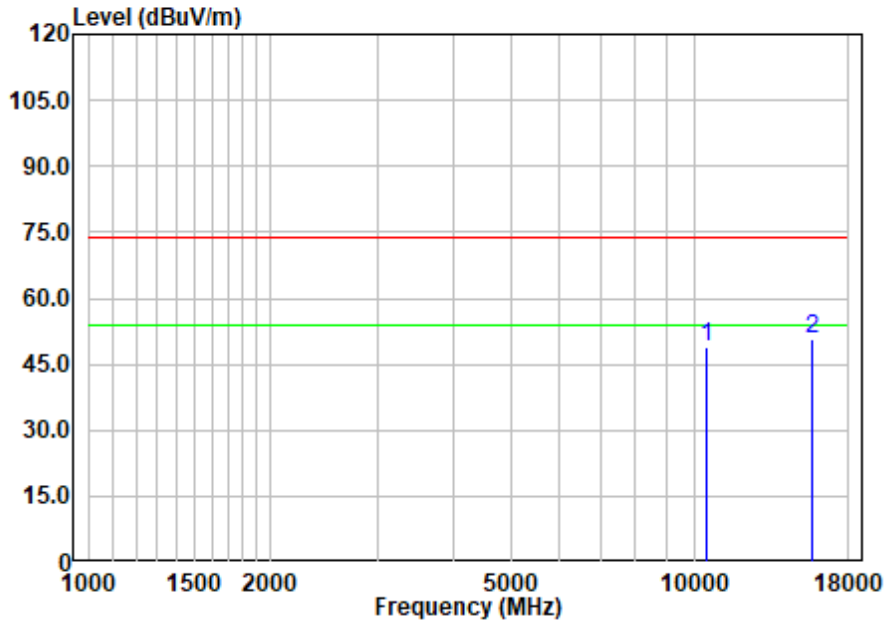
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 31 of 207

Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	10480.000	41.56	12.60	37.69	49.02	74.00	-24.98 Peak
2	15720.000	35.91	14.81	40.29	50.93	74.00	-23.07 Peak



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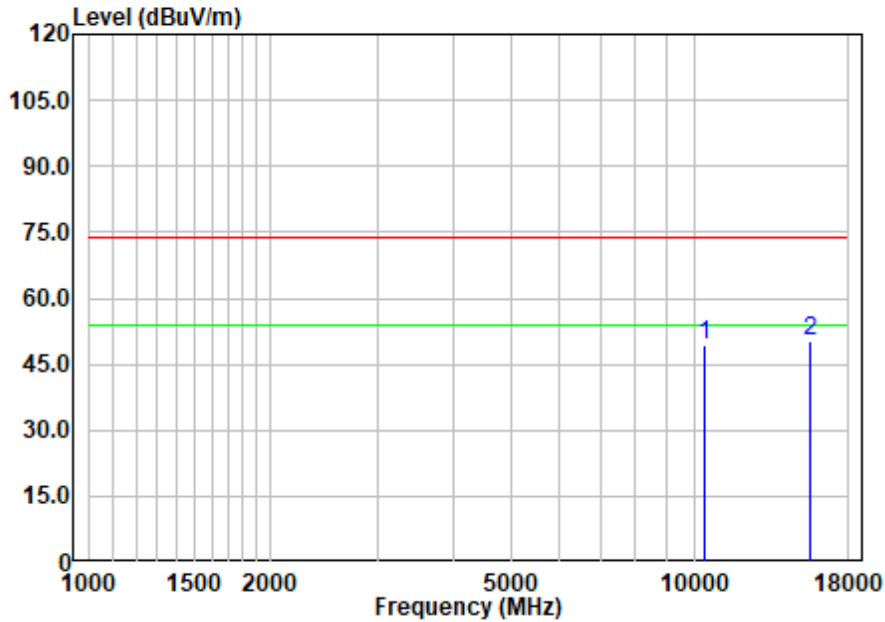
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 32 of 207

Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Line	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10380.000	42.49	12.58	37.60	49.56	74.00	-24.44 Peak
2	15570.000	36.70	14.80	40.23	50.44	74.00	-23.56 Peak



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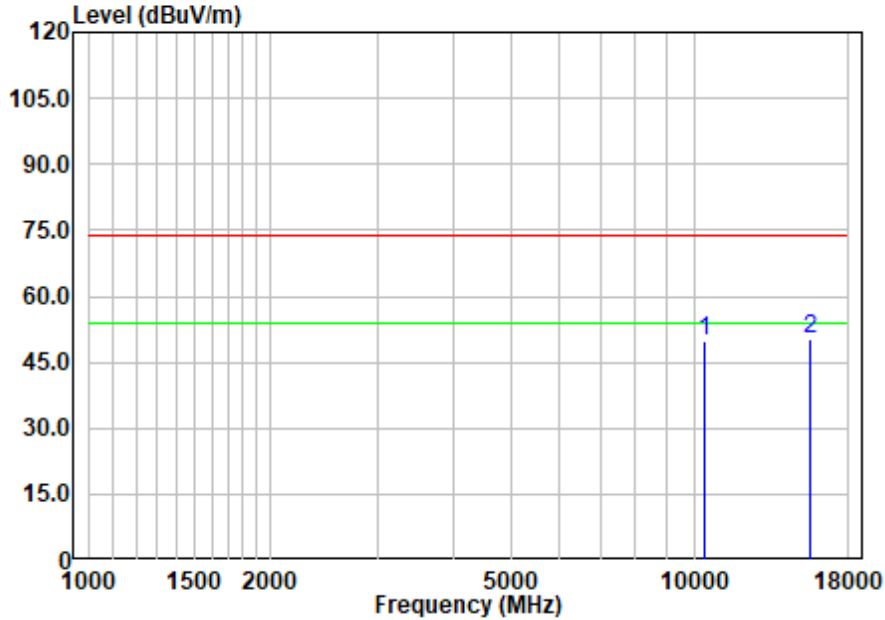
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	10380.000	42.87	12.58	37.60	49.94	74.00	-24.06 Peak
2	15570.000	36.60	14.80	40.23	50.34	74.00	-23.66 Peak



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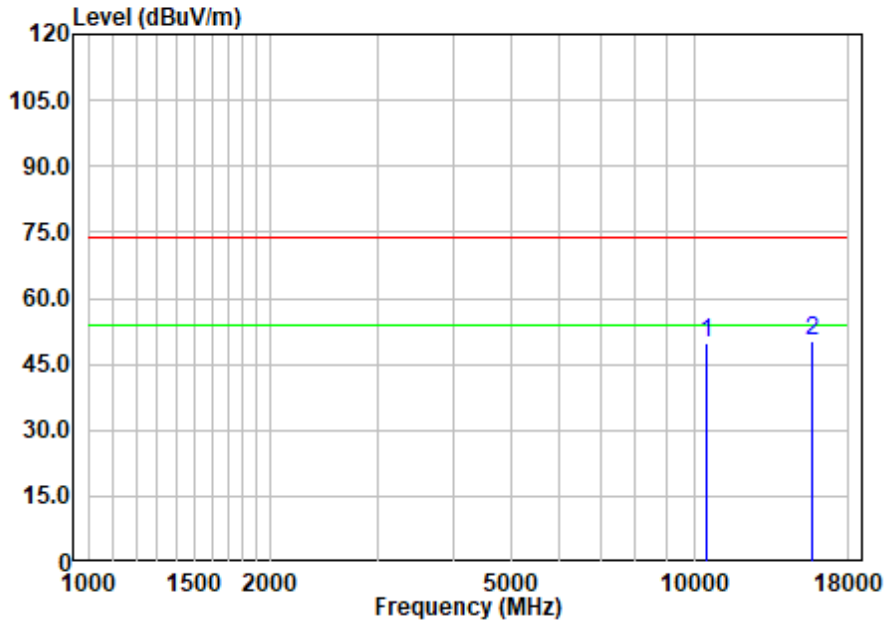
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 34 of 207

Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	10460.000	12.60	37.67	49.91	74.00	-24.09 Peak
2	15690.000	14.81	40.28	50.38	74.00	-23.62 Peak



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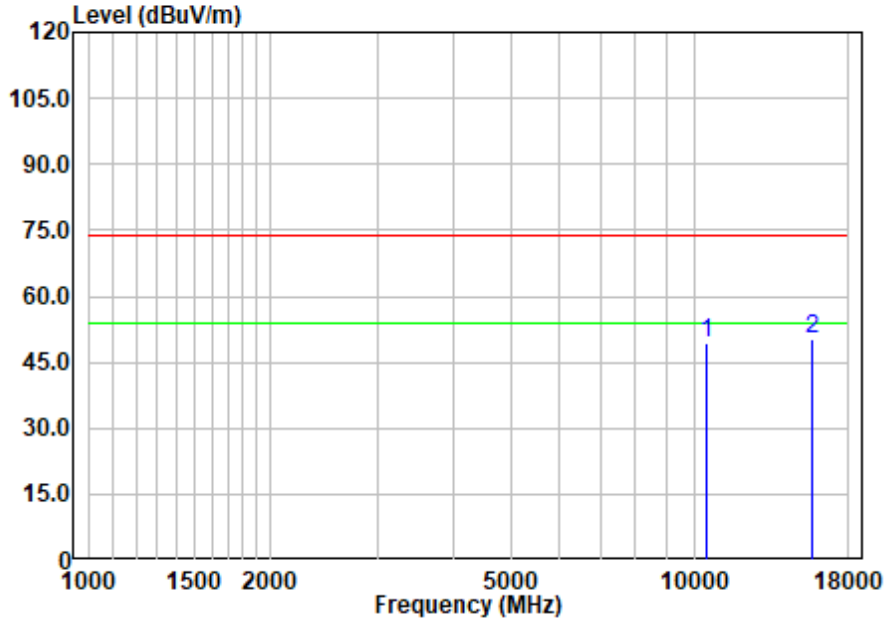
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10460.000	42.19	12.60	37.67	49.55	74.00	-24.45 Peak
2	15690.000	35.72	14.81	40.28	50.35	74.00	-23.65 Peak



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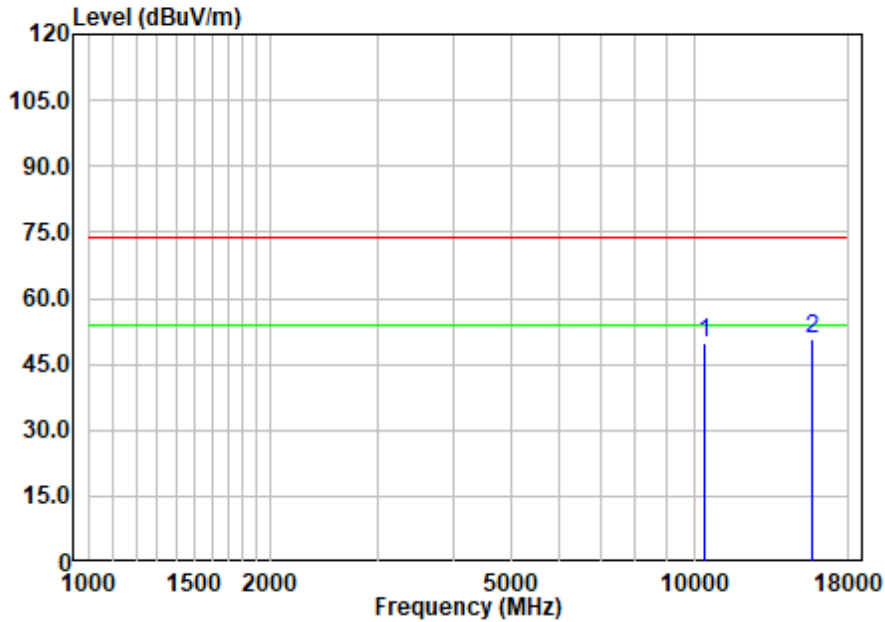
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10420.000	42.57	12.59	37.64	49.73	74.00	-24.27 Peak
2	15630.000	36.77	14.80	40.25	50.71	74.00	-23.29 Peak



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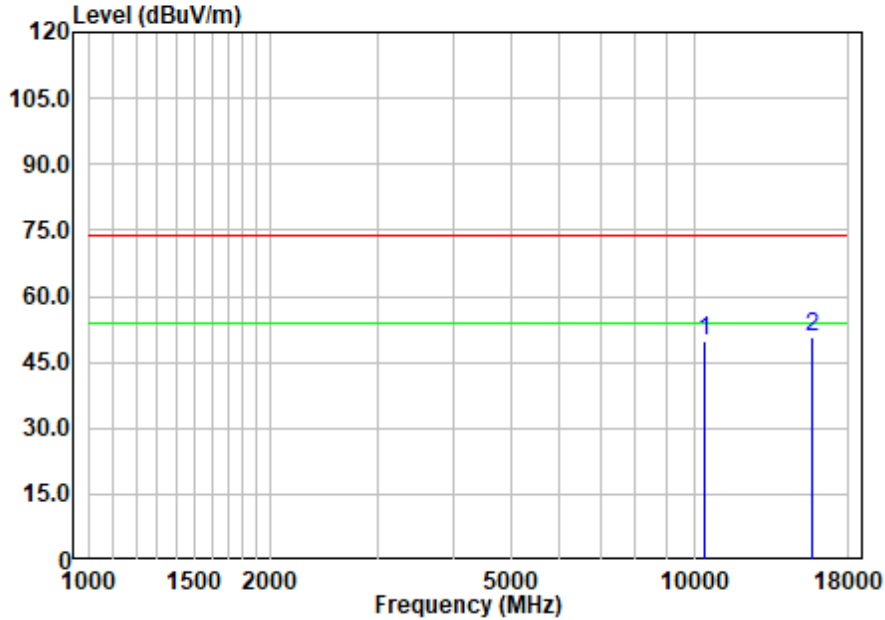
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Read Freq	Cable Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	10420.000	12.59	37.64	49.90	74.00	-24.10 Peak
2	15630.000	14.80	40.25	50.74	74.00	-23.26 Peak



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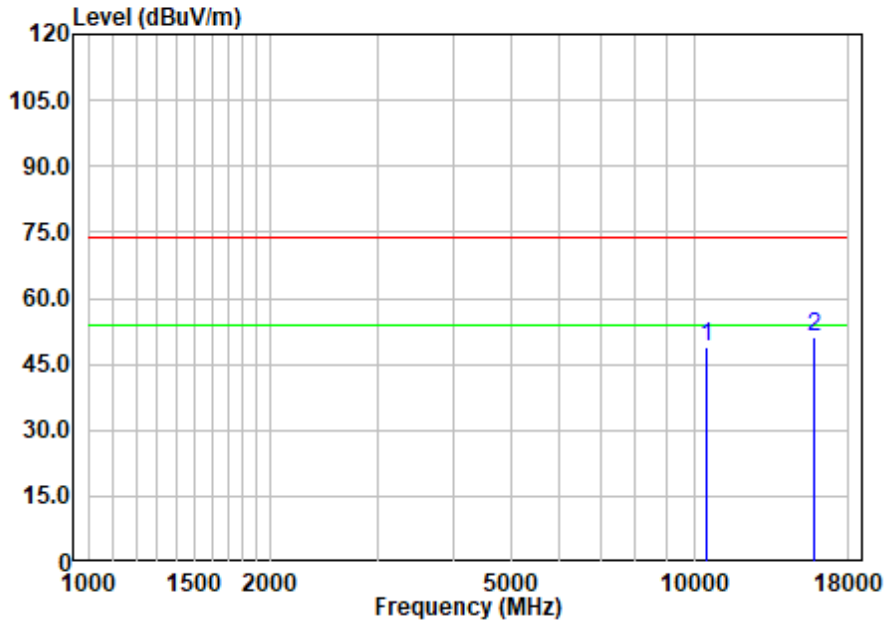
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10520.000	41.43	12.61	37.73	49.11	74.00	-24.89 Peak
2	15780.000	35.11	14.81	40.31	50.95	74.00	-23.05 Peak



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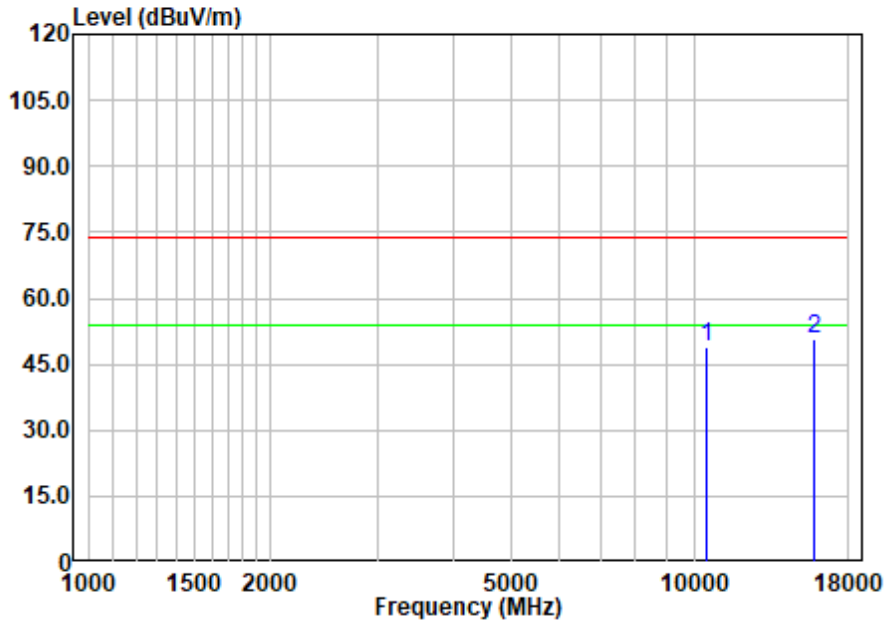
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	10520.000	41.42	12.61	37.73	49.10	74.00	-24.90 Peak
2	15780.000	34.97	14.81	40.31	50.81	74.00	-23.19 Peak



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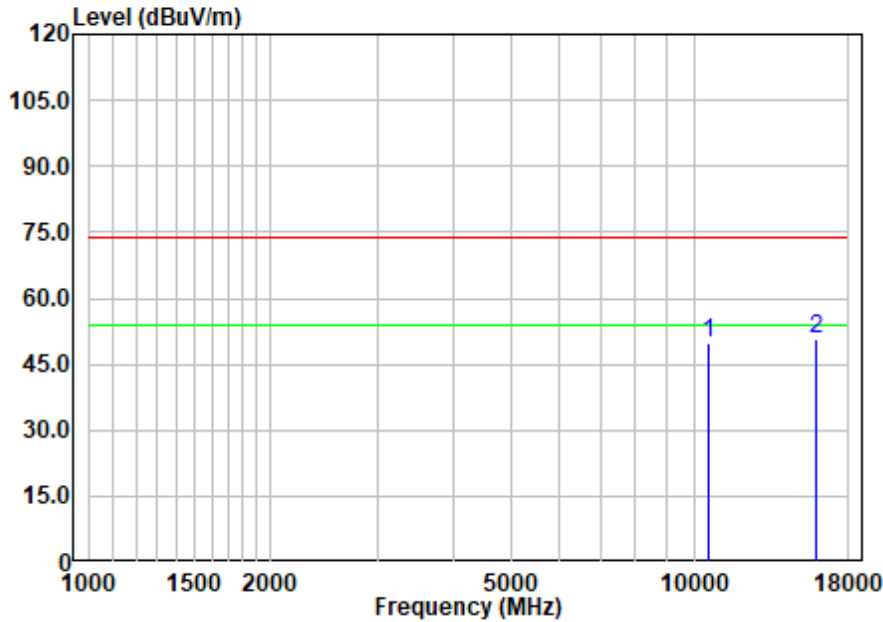
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	10600.000	12.62	37.80	49.71	74.00	-24.29 Peak
2	15900.000	14.85	40.35	50.53	74.00	-23.47 Peak



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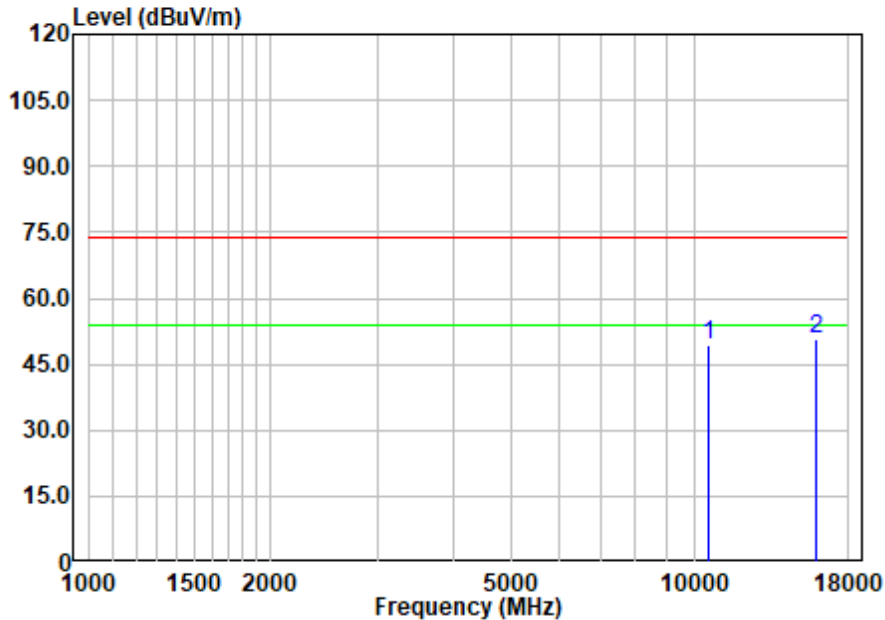
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 41 of 207

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10600.000	41.37	12.62	37.80	49.51	74.00	-24.49 Peak
2	15900.000	34.73	14.85	40.35	50.88	74.00	-23.12 Peak



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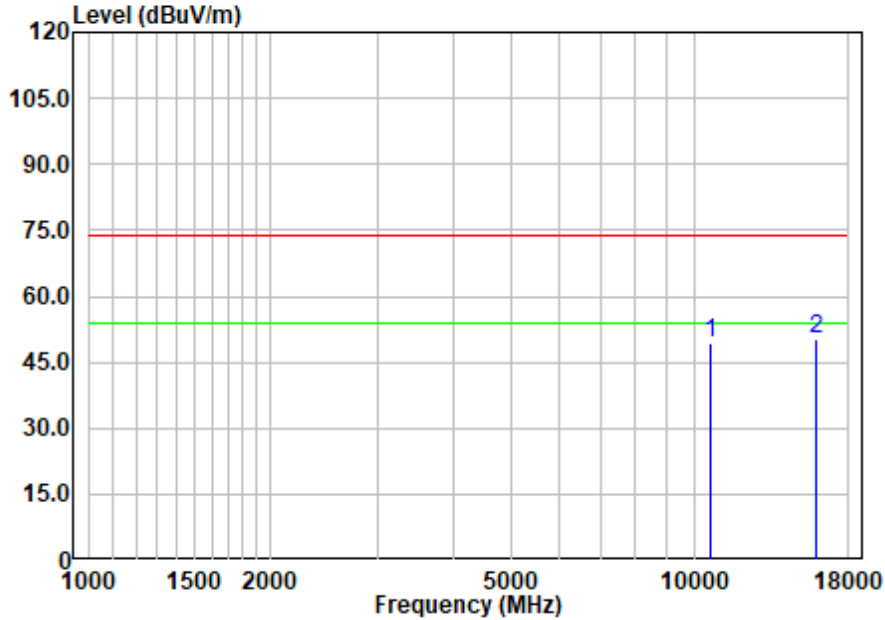
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10640.000	41.22	12.63	37.83	49.49	74.00	-24.51 Peak
2	15960.000	34.38	14.90	40.38	50.48	74.00	-23.52 Peak



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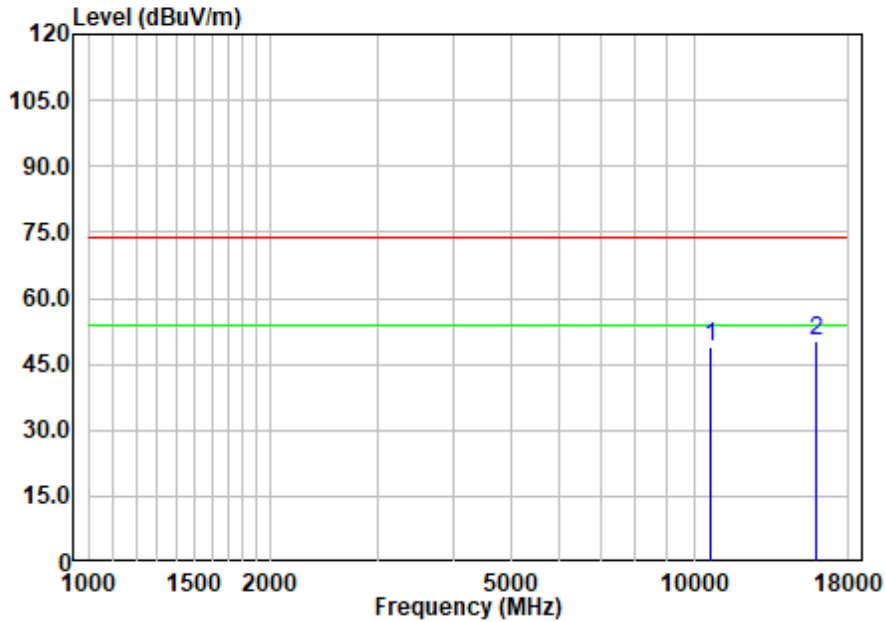
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 43 of 207

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10640.000	40.75	12.63	37.83	49.02	74.00	-24.98 Peak
2	15960.000	34.02	14.90	40.38	50.12	74.00	-23.88 Peak



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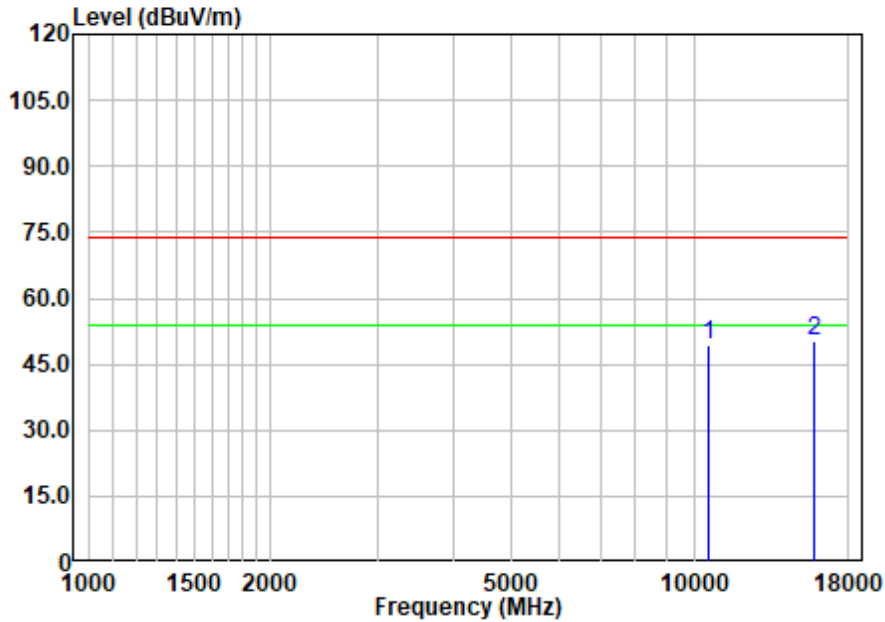
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10540.000	41.79	12.61	37.74	49.58	74.00	-24.42 Peak
2	15810.000	34.32	14.81	40.32	50.44	74.00	-23.56 Peak



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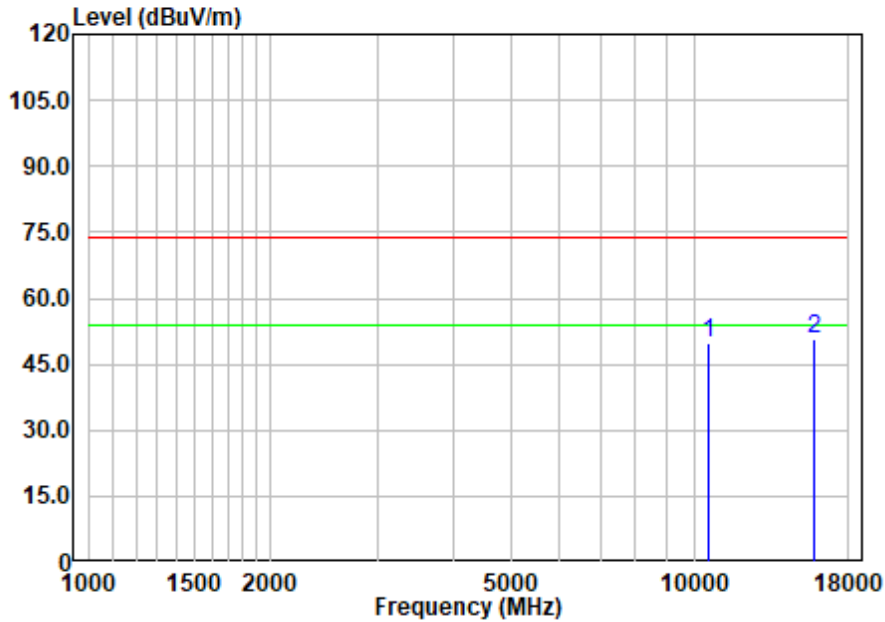
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10540.000	42.16	12.61	37.74	49.95	74.00	-24.05 Peak
2	15810.000	34.50	14.81	40.32	50.62	74.00	-23.38 Peak

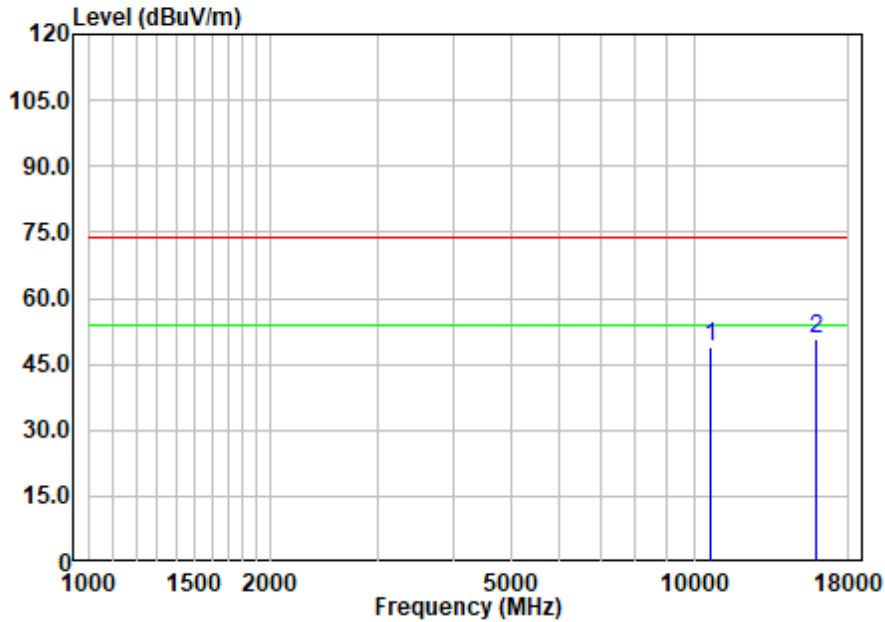


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 10620.000	40.87	12.62	37.82	49.07	74.00	-24.93	Peak
2 15930.000	34.80	14.87	40.37	50.92	74.00	-23.08	Peak



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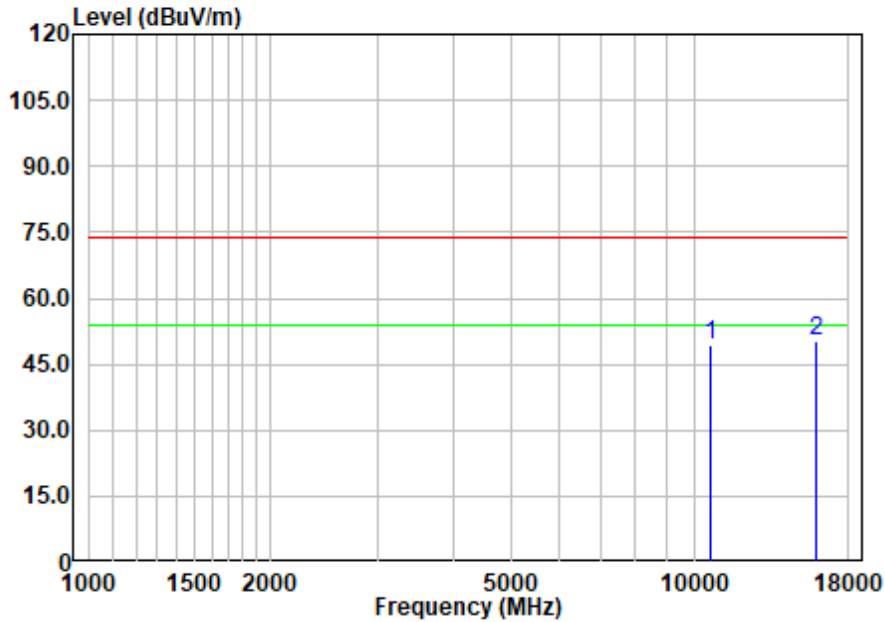
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



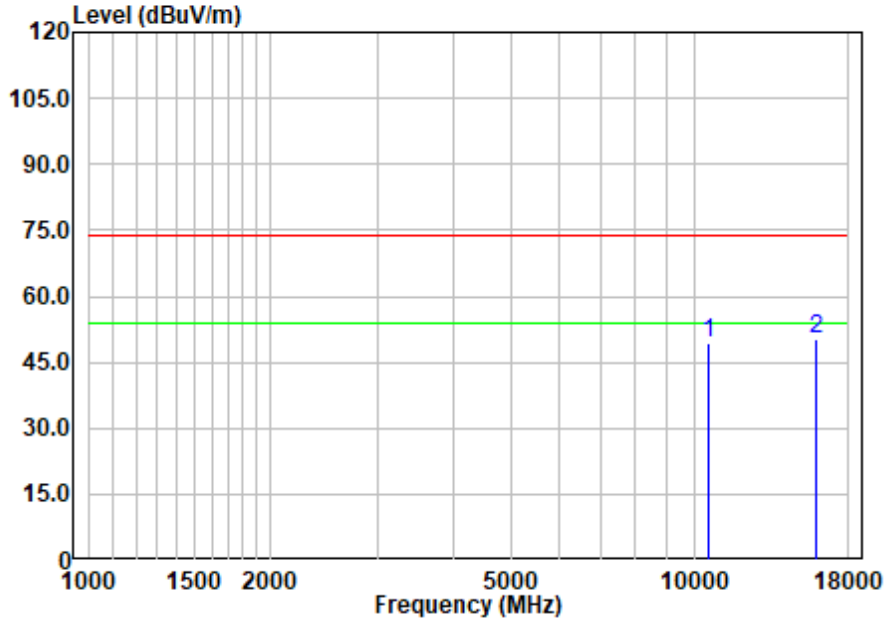
	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10620.000	41.36	12.62	37.82	49.56	74.00	-24.44 Peak
2	15930.000	34.00	14.87	40.37	50.12	74.00	-23.88 Peak



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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	10580.000	41.29	12.62	37.78	74.00	-24.68	Peak
2	15870.000	34.02	14.82	40.34	74.00	-23.86	Peak



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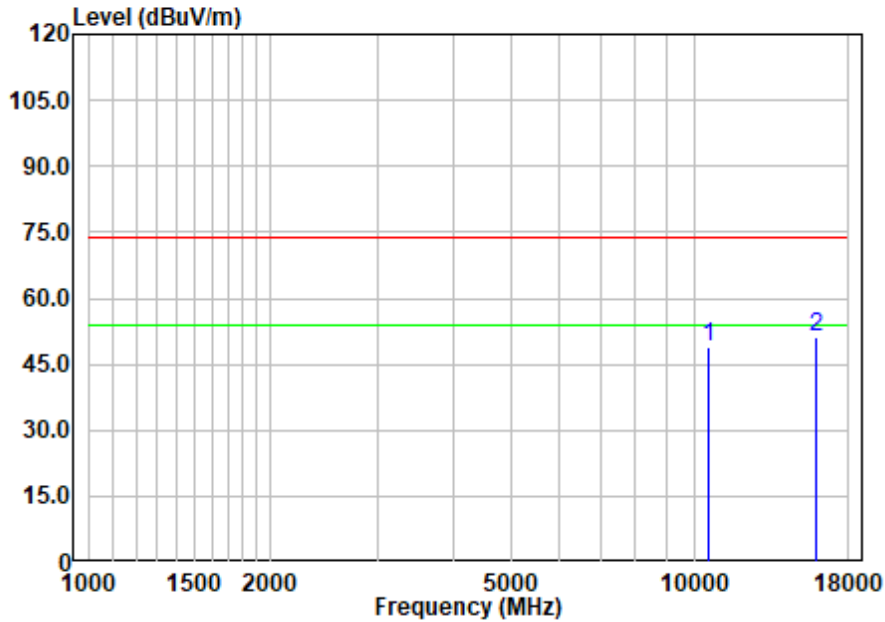
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	
1	10580.000	41.00	12.62	37.78	49.03	74.00	-24.97 Peak
2	15870.000	34.84	14.82	40.34	50.96	74.00	-23.04 Peak



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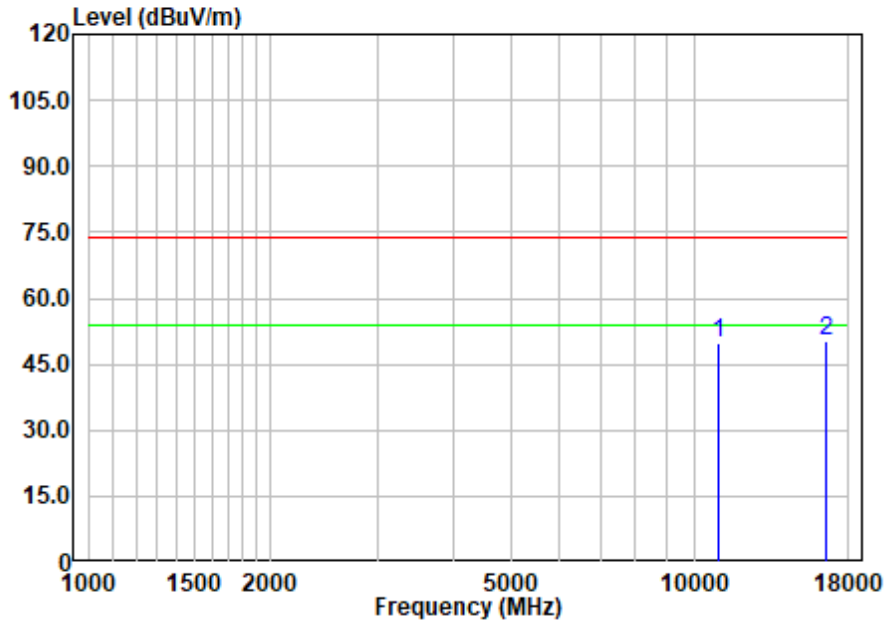
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	11000.000	41.79	12.77	38.17	49.71	74.00	-24.29 Peak
2	16500.000	32.63	15.42	40.59	50.41	74.00	-23.59 Peak



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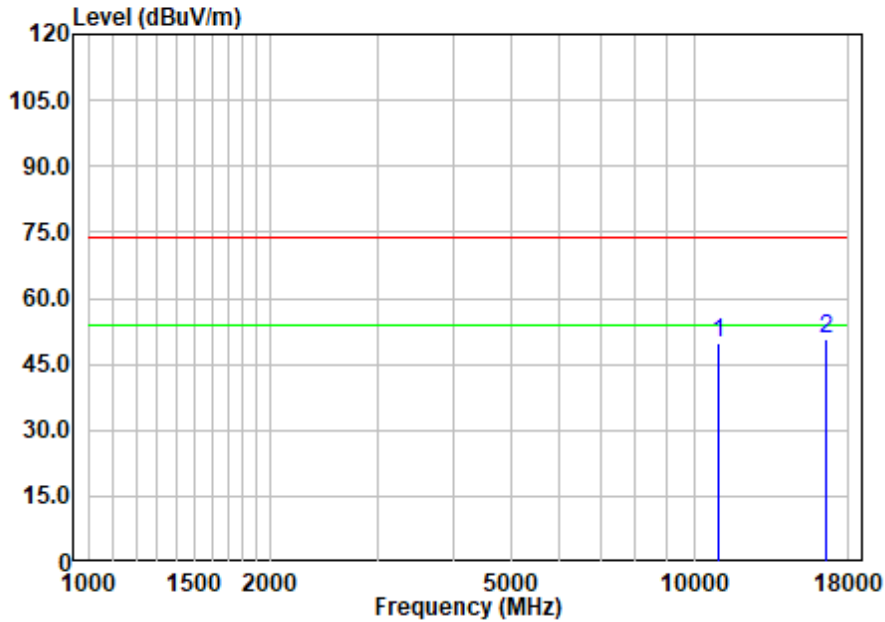
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	11000.000	41.96	12.77	38.17	49.88	74.00	-24.12 Peak
2	16500.000	33.06	15.42	40.59	50.84	74.00	-23.16 Peak



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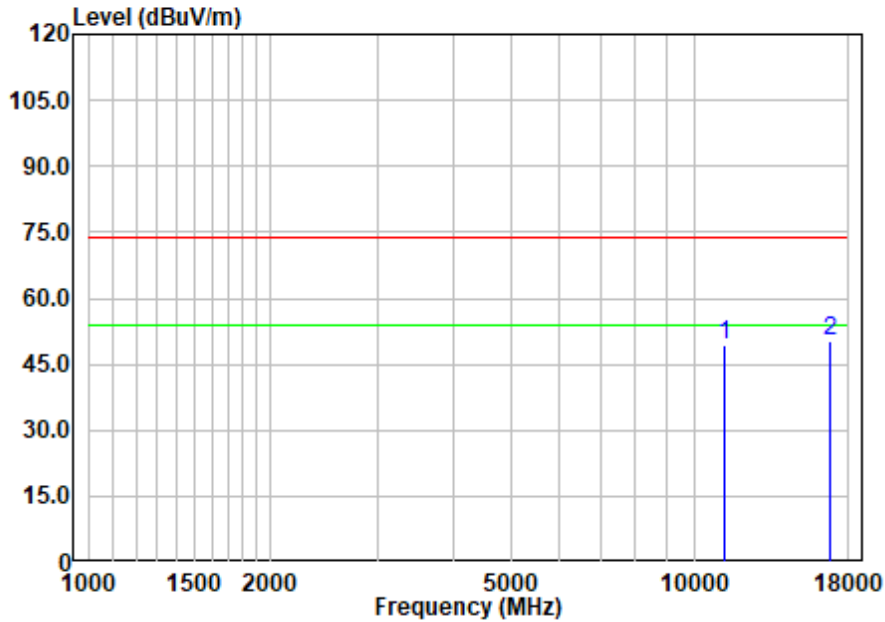
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11200.000	40.72	12.89	38.36	49.46	74.00	-24.54 Peak
2	16800.000	33.80	15.71	40.71	50.21	74.00	-23.79 Peak



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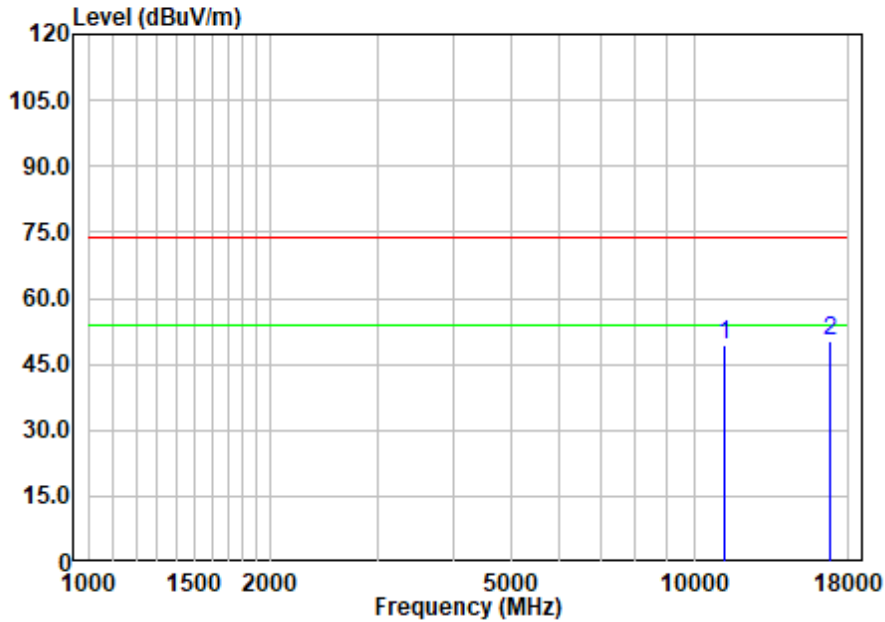
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	11200.000	12.89	38.36	49.51	74.00	-24.49 Peak
2	16800.000	15.71	40.71	50.19	74.00	-23.81 Peak



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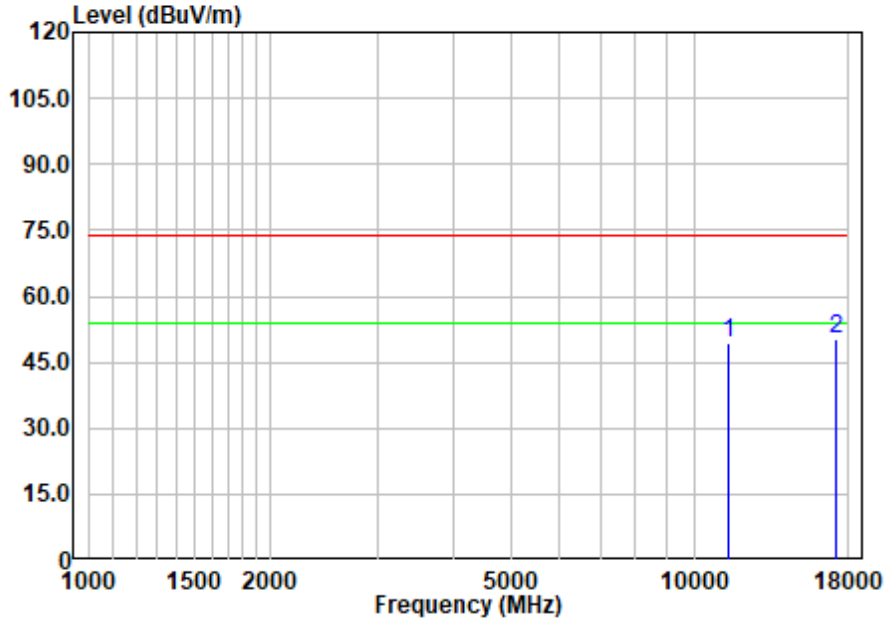
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	11400.000	39.97	13.02	38.56	49.15	74.00	-24.85 Peak
2	17100.000	30.38	16.00	40.83	50.38	74.00	-23.62 Peak



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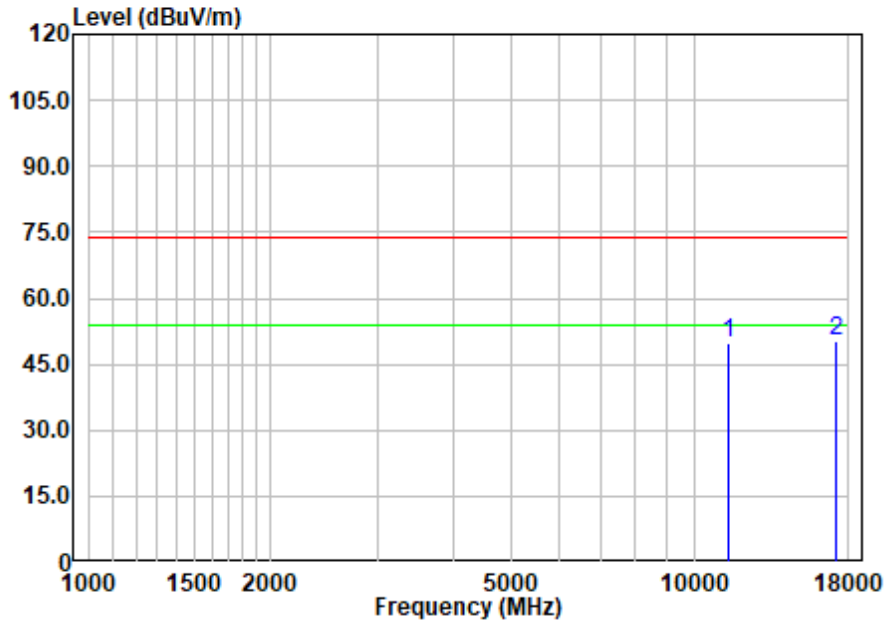
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Line	Limit Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	11400.000	40.79	13.02	38.56	49.97	74.00	-24.03 Peak
2	17100.000	30.04	16.00	40.83	50.04	74.00	-23.96 Peak



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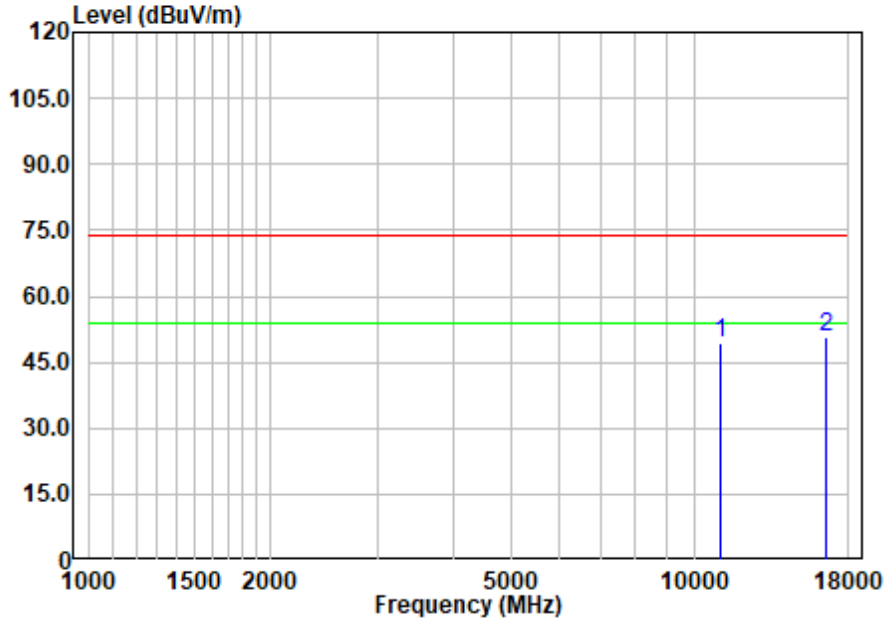
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	11020.000	41.40	12.78	38.19	49.49	74.00	-24.51 Peak
2	16530.000	33.11	15.45	40.60	50.93	74.00	-23.07 Peak



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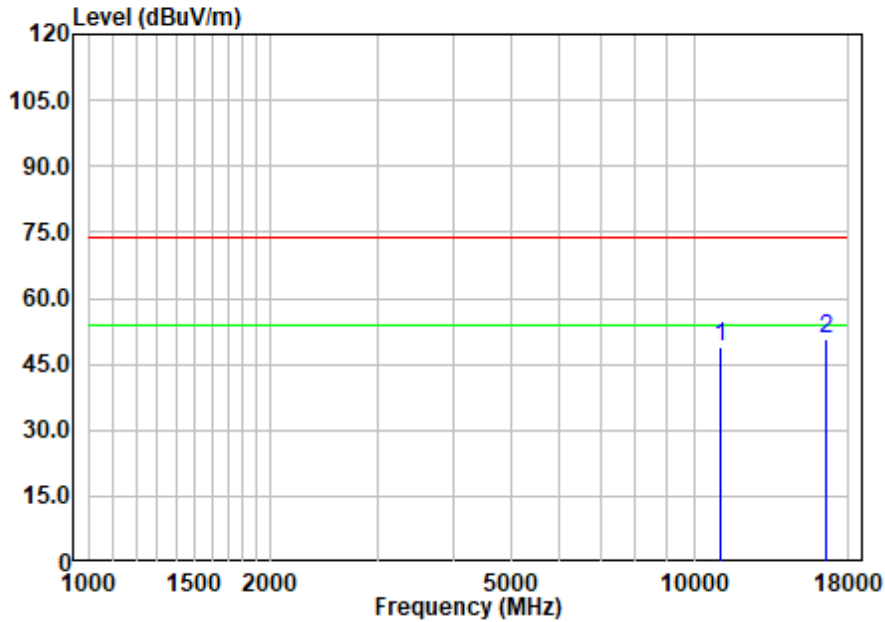
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	11020.000	40.94	12.78	38.19	49.03	74.00	-24.97 Peak
2	16530.000	33.03	15.45	40.60	50.85	74.00	-23.15 Peak



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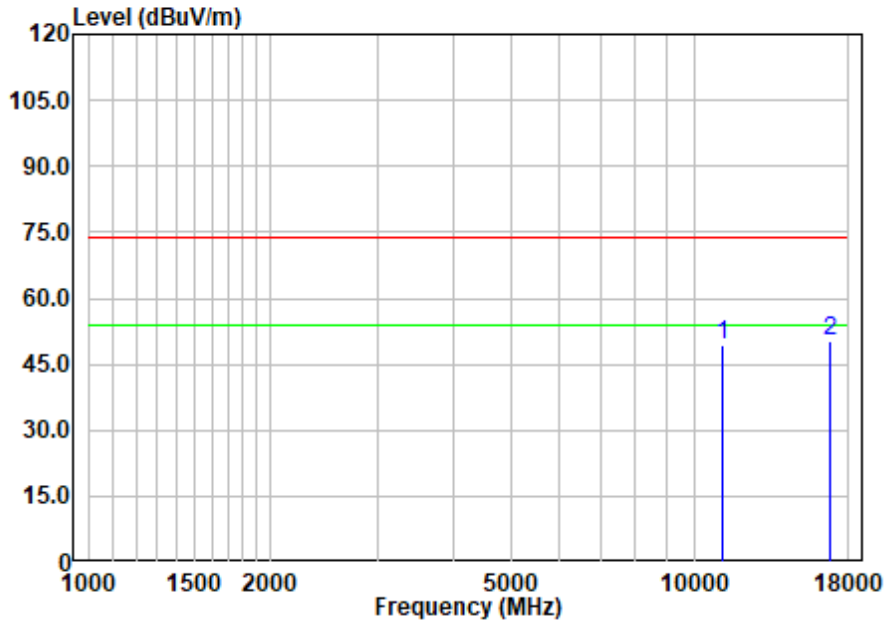
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11180.000	40.48	12.88	38.34	49.23	74.00 -24.77	Peak
2	16770.000	33.61	15.68	40.70	50.24	74.00 -23.76	Peak



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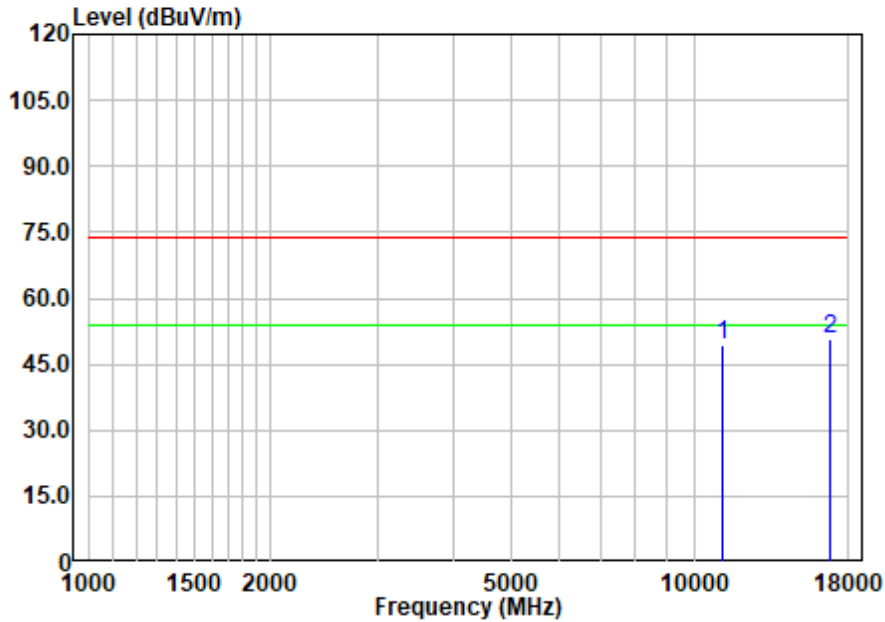
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBUV/m	dBUV/m	dB	
1	11180.000	40.51	12.88	38.34	49.26	74.00	-24.74 Peak
2	16770.000	34.29	15.68	40.70	50.92	74.00	-23.08 Peak

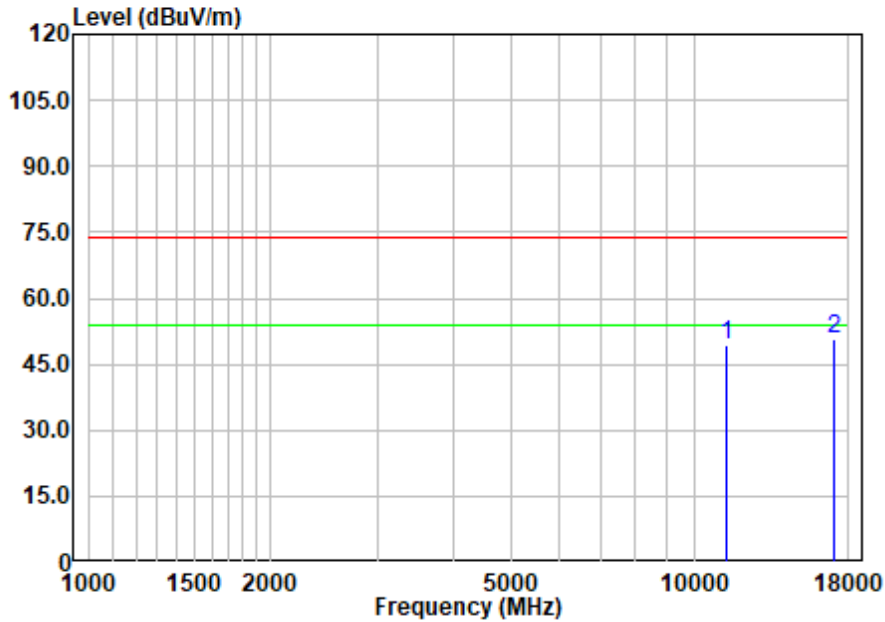


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 11340.000	40.07	12.98	38.50	49.32	74.00	-24.68	Peak
2 17010.000	31.92	15.91	40.80	50.57	74.00	-23.43	Peak



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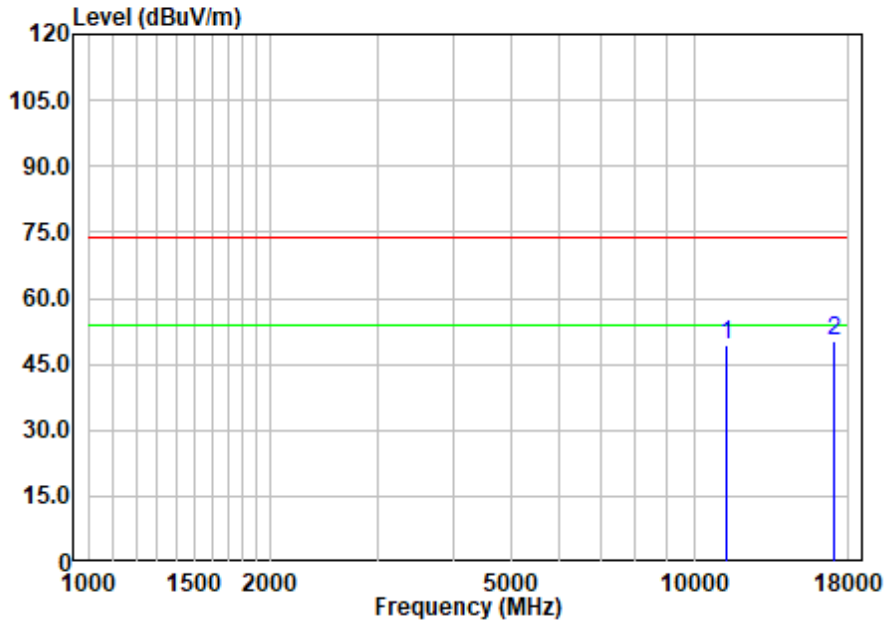
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11340.000	40.16	12.98	38.50	49.41	74.00	-24.59 Peak
2	17010.000	31.59	15.91	40.80	50.24	74.00	-23.76 Peak



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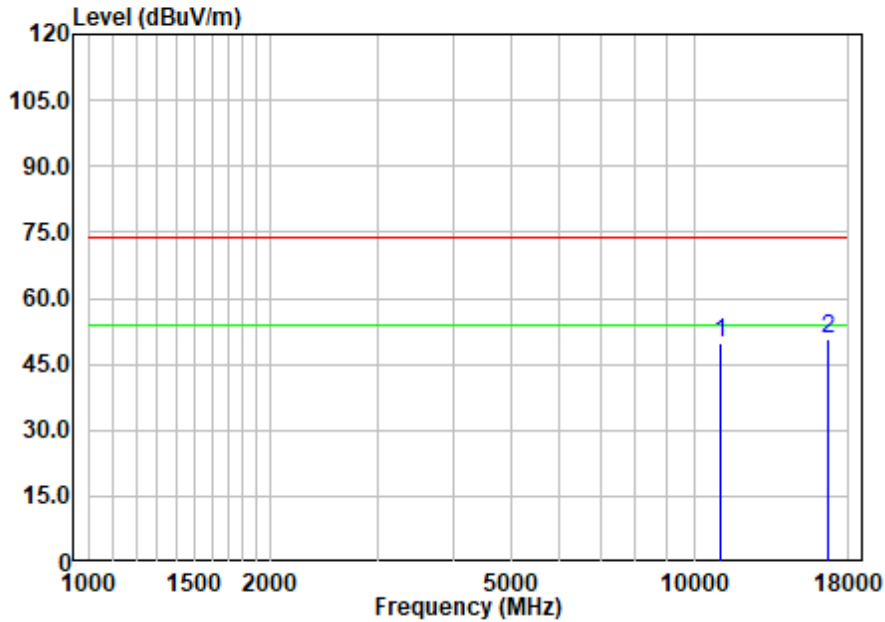
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	11060.000	41.28	12.80	38.23	49.70	74.00	-24.30 Peak
2	16590.000	33.00	15.51	40.63	50.90	74.00	-23.10 Peak



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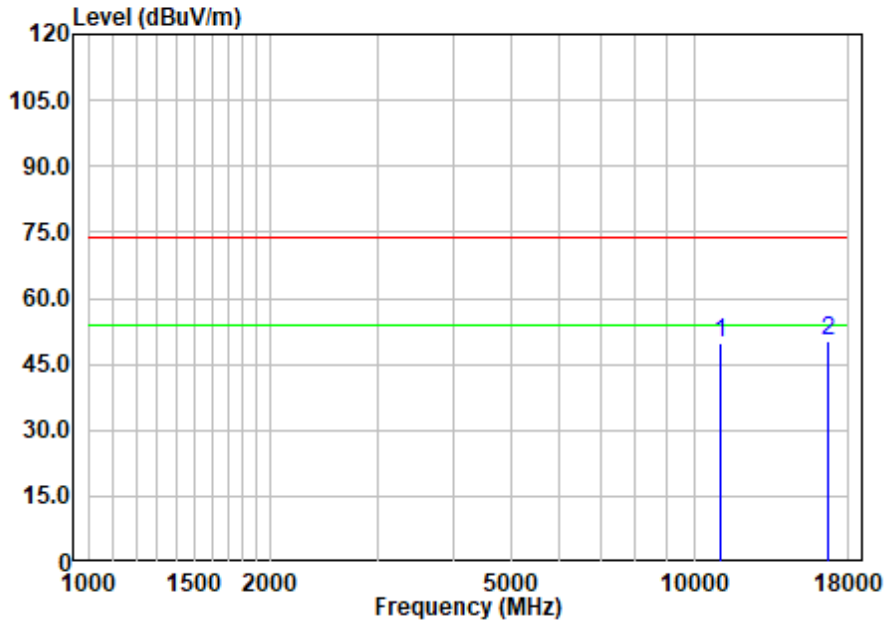
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	11060.000	41.19	12.80	38.23	49.61	74.00	-24.39 Peak
2	16590.000	32.57	15.51	40.63	50.47	74.00	-23.53 Peak



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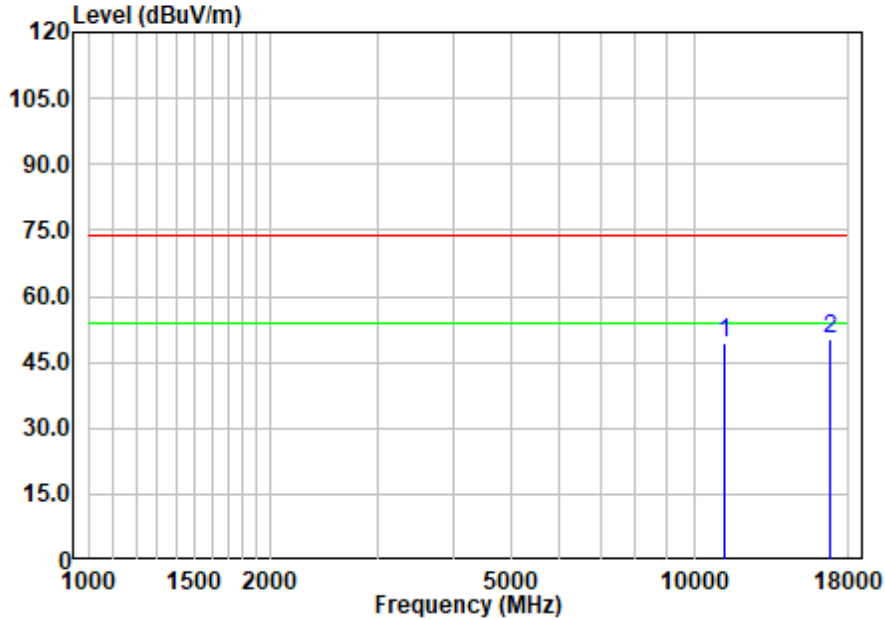
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 11220.000	40.43	12.91	38.38	49.29	74.00	-24.71	Peak
2 16830.000	33.68	15.74	40.72	50.11	74.00	-23.89	Peak



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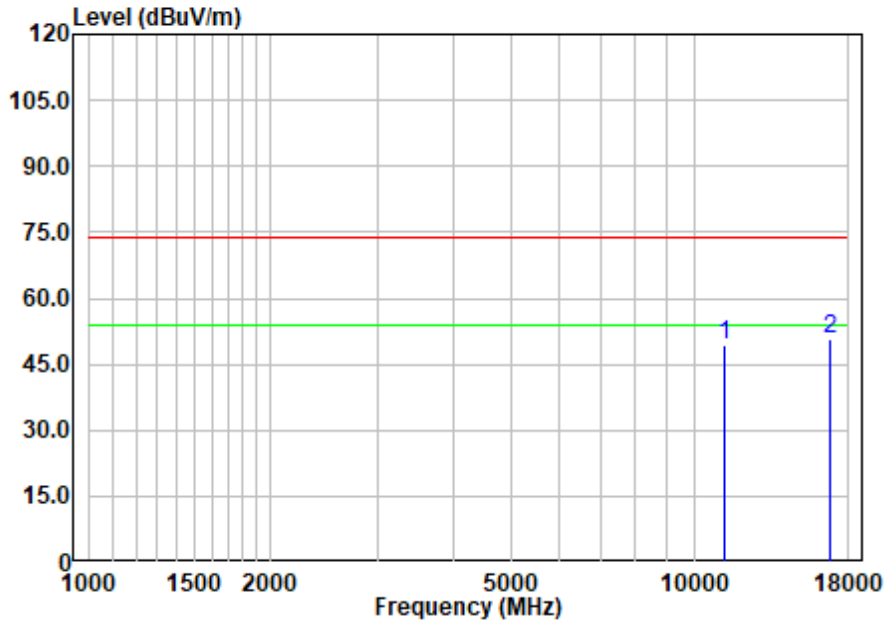
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	11220.000	40.56	12.91	38.38	49.42	74.00	-24.58 Peak
2	16830.000	34.11	15.74	40.72	50.54	74.00	-23.46 Peak



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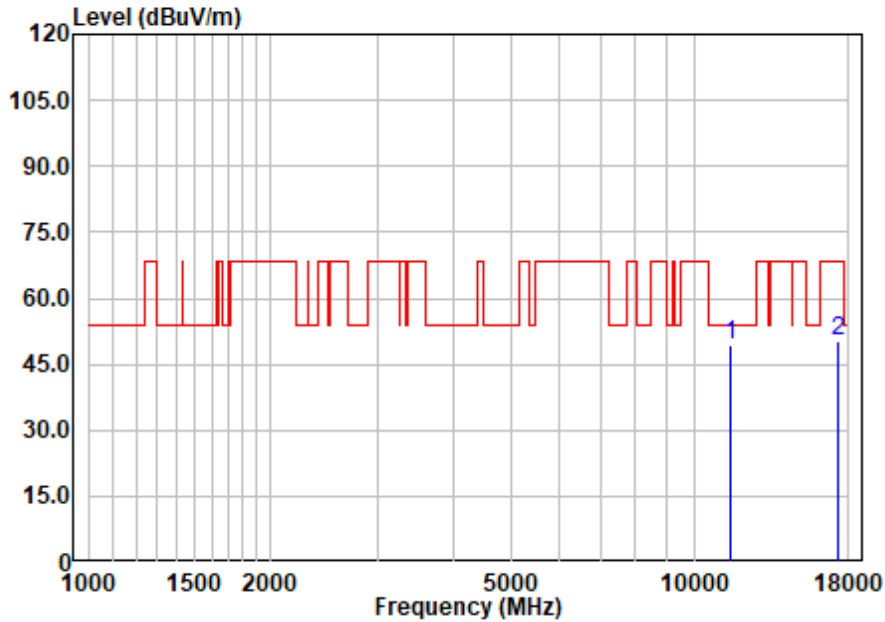
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	11490.000	13.08	38.65	49.55	54.00	-4.45 Peak
2	17235.000	16.12	40.88	50.11	68.30	-18.19 Peak



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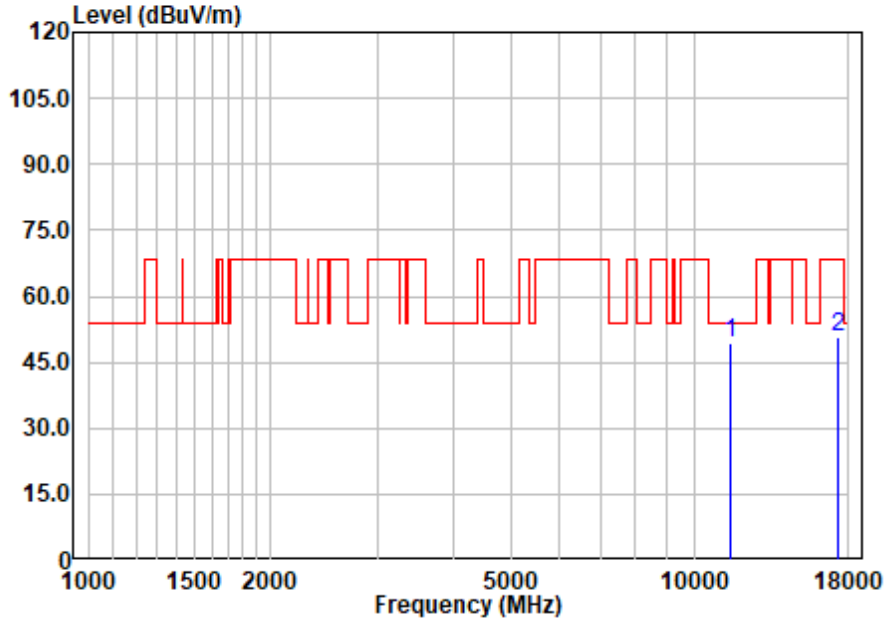
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	11490.000	13.08	38.65	49.52	54.00	-4.48 Peak
2	17235.000	16.12	40.88	50.68	68.30	-17.62 Peak



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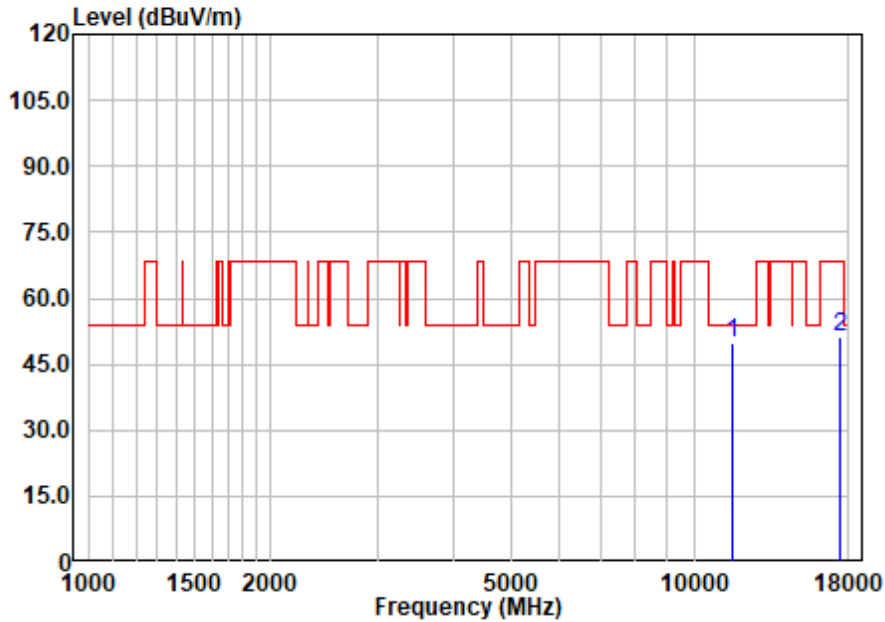
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	11570.000	13.13	38.72	49.71	54.00	-4.29 Peak
2	17355.000	16.24	40.93	50.97	68.30	-17.33 Peak



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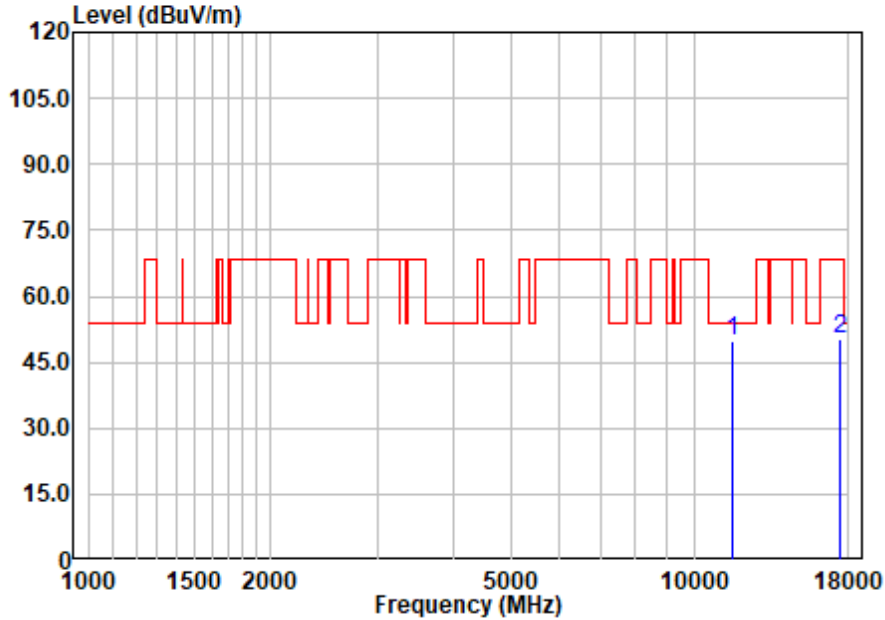
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11570.000	40.31	13.13	38.72	49.91	54.00	-4.09 Peak
2	17355.000	31.94	16.24	40.93	50.19	68.30	-18.11 Peak



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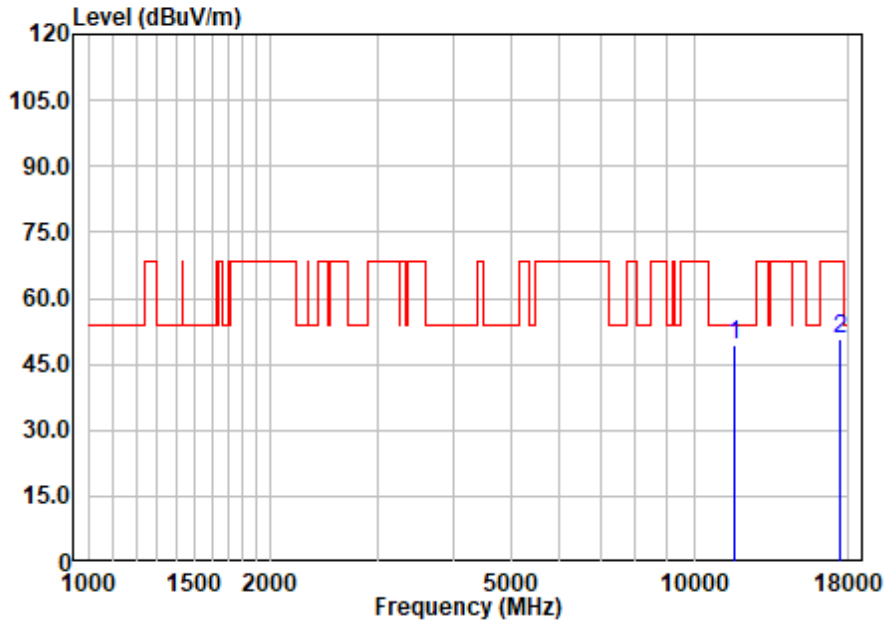
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Level	Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	11650.000	39.84	13.18	38.80	49.42	54.00	-4.58 Peak
2	17475.000	33.53	16.33	40.97	50.94	68.30	-17.36 Peak



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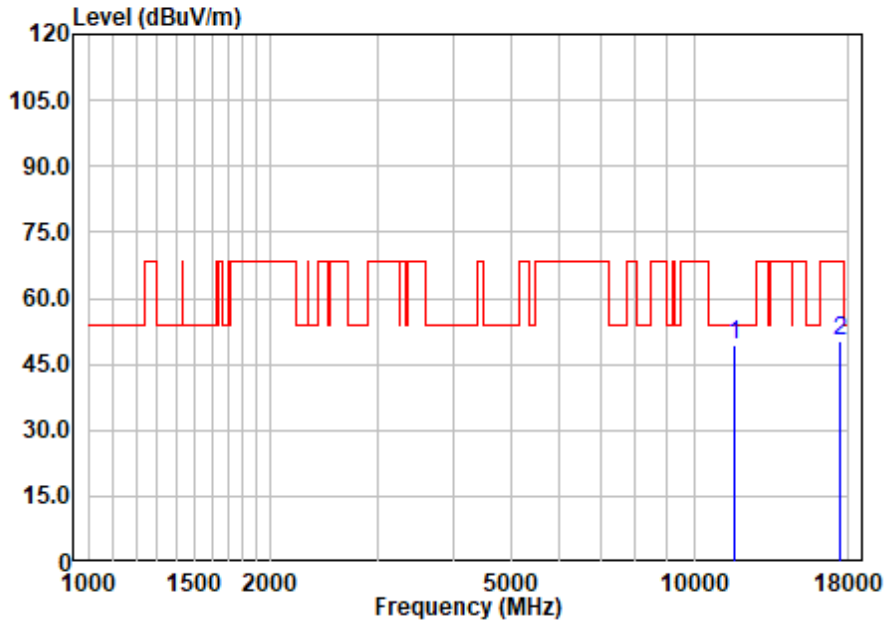
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11650.000	39.74	13.18	38.80	49.32	54.00	-4.68 Peak
2	17475.000	33.04	16.33	40.97	50.45	68.30	-17.85 Peak



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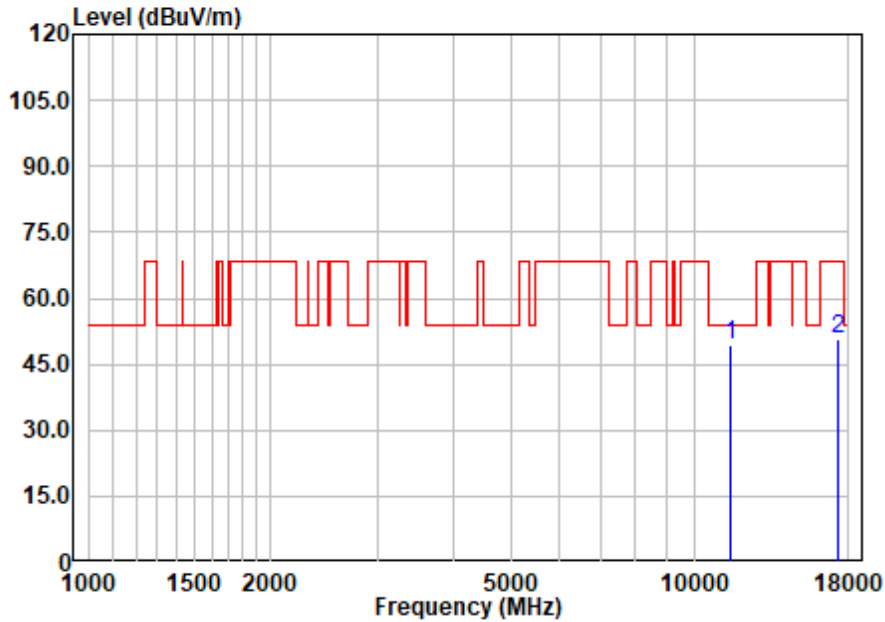
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11510.000	39.95	13.09	38.66	49.55	54.00	-4.45 Peak
2	17265.000	31.46	16.15	40.90	50.78	68.30	-17.52 Peak



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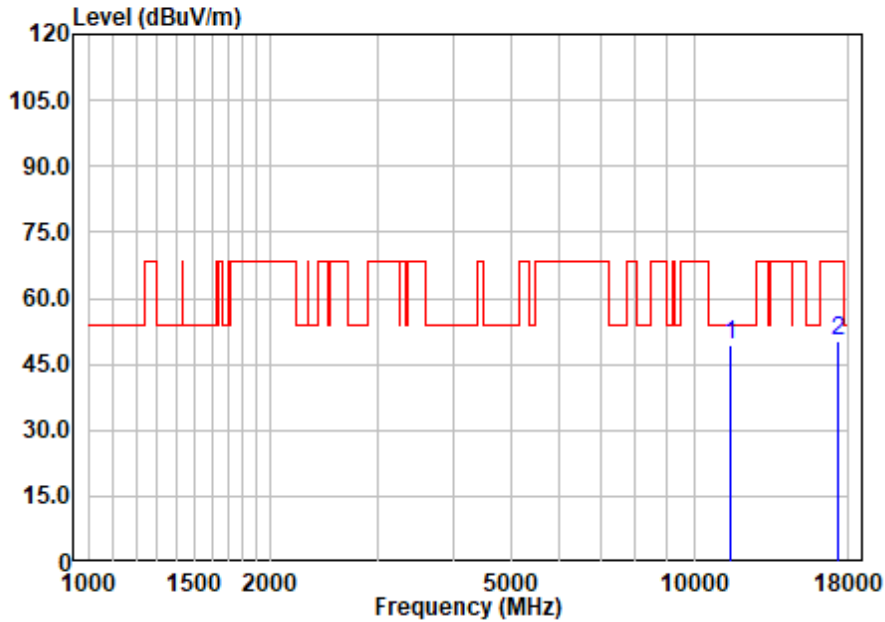
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	11510.000	13.09	38.66	49.20	54.00	-4.80 Peak
2	17265.000	16.15	40.90	50.18	68.30	-18.12 Peak



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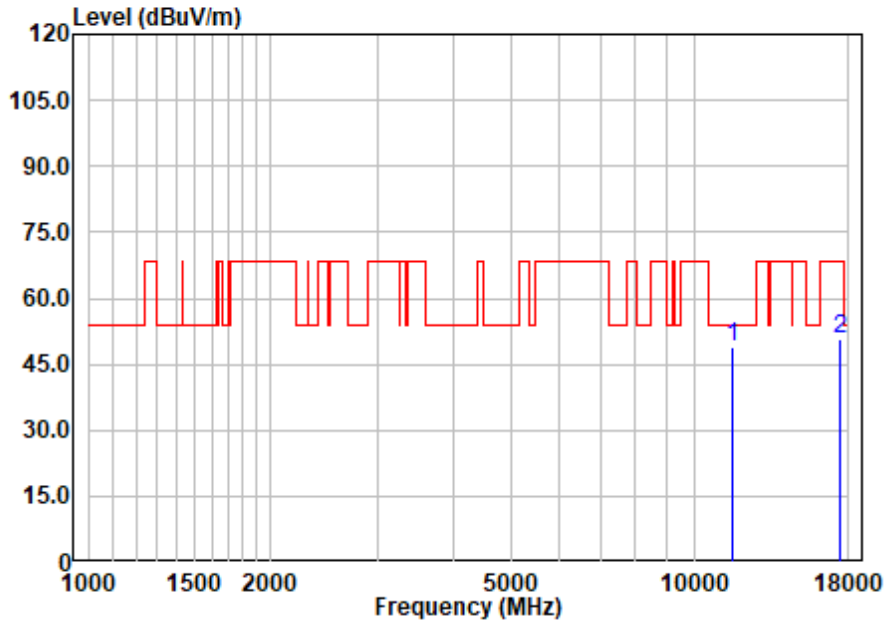
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11590.000	39.43	13.14	38.74	49.03	54.00	-4.97 Peak
2	17385.000	32.73	16.27	40.94	50.50	68.30	-17.80 Peak



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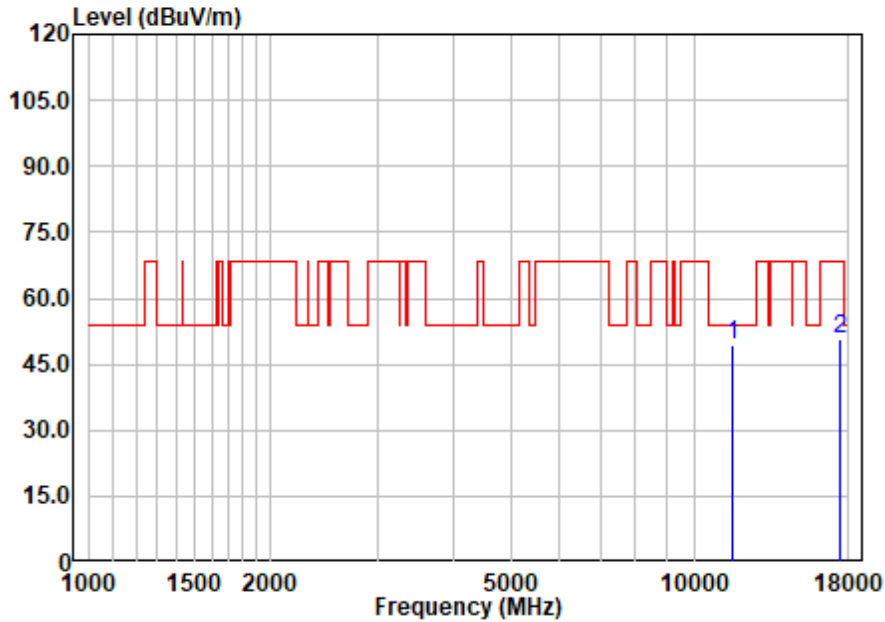
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 75 of 207

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11590.000	39.83	13.14	38.74	49.43	54.00	-4.57 Peak
2	17385.000	32.80	16.27	40.94	50.57	68.30	-17.73 Peak



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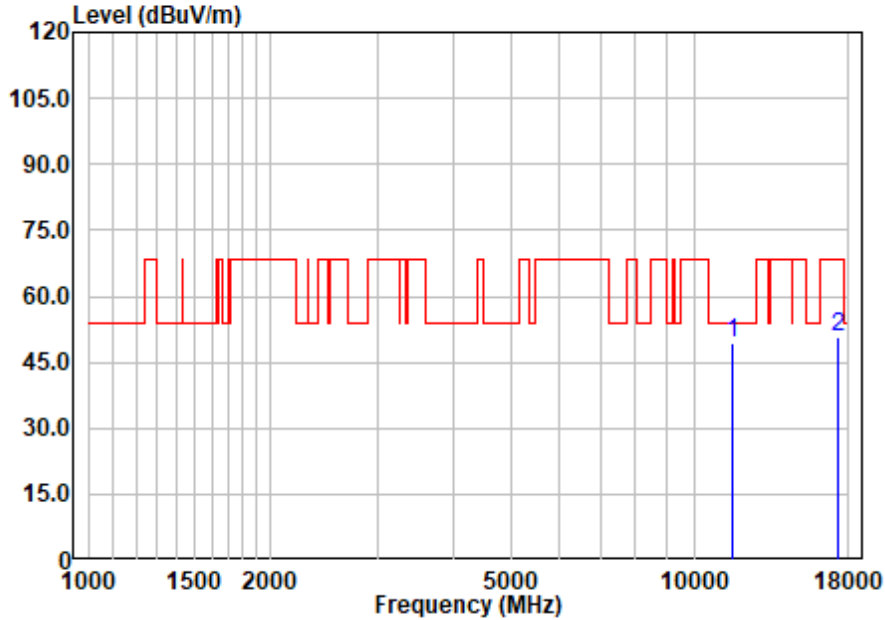
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11550.000	39.76	13.12	38.70	49.36	54.00	-4.64 Peak
2	17325.000	31.87	16.21	40.92	50.60	68.30	-17.70 Peak



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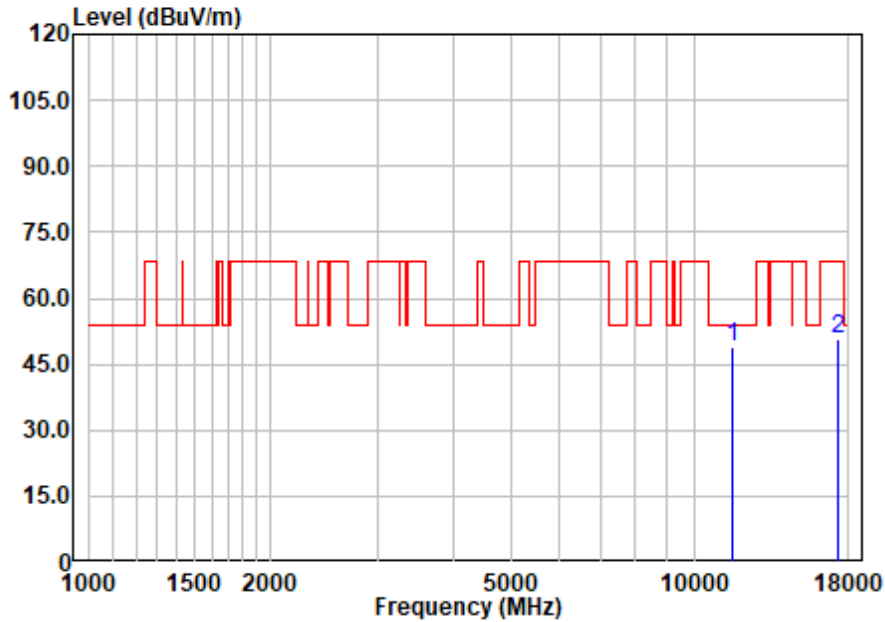
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 77 of 207

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark	
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB	
1	11550.000	39.43	13.12	38.70	49.03	54.00	-4.97 Peak
2	17325.000	31.92	16.21	40.92	50.65	68.30	-17.65 Peak



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7.8 Radiated Emissions which fall in the restricted bands

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

Limit:

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

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

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

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

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

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

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



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7.8.1 E.U.T. Operation

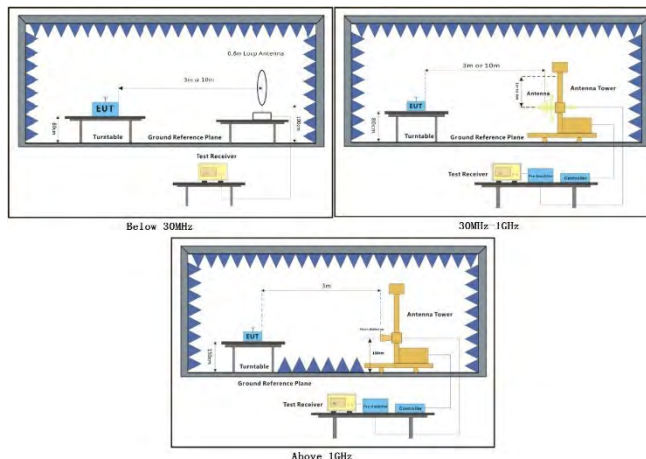
Operating Environment:

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

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the 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.
	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the 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.
	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

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

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



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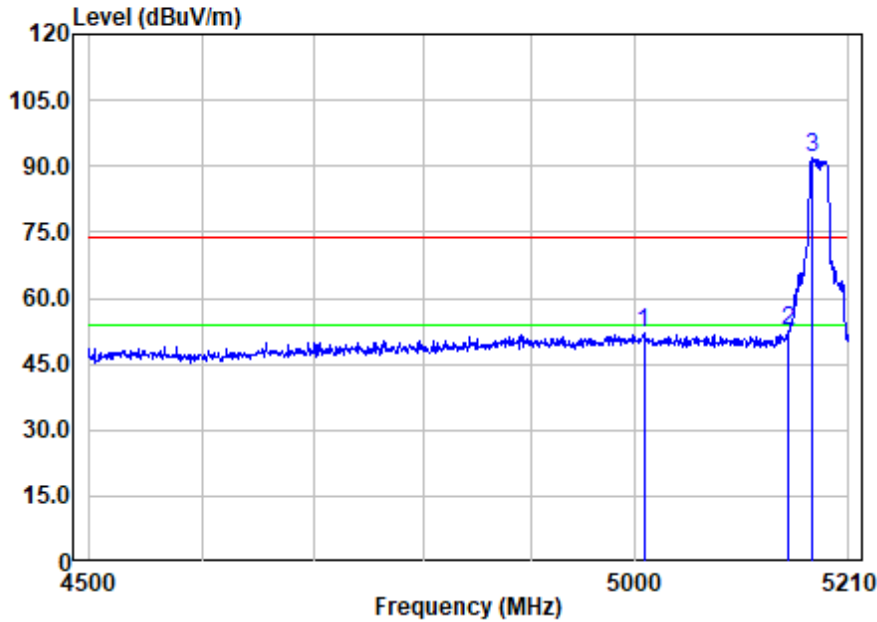
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Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBUV/m	dB	
1	5008.360	8.24	32.62	52.02	74.00	-21.98 Peak
2	5150.000	8.39	32.61	52.61	74.00	-21.39 Peak
3	5173.790	8.42	32.59	91.90	74.00	17.90 Peak



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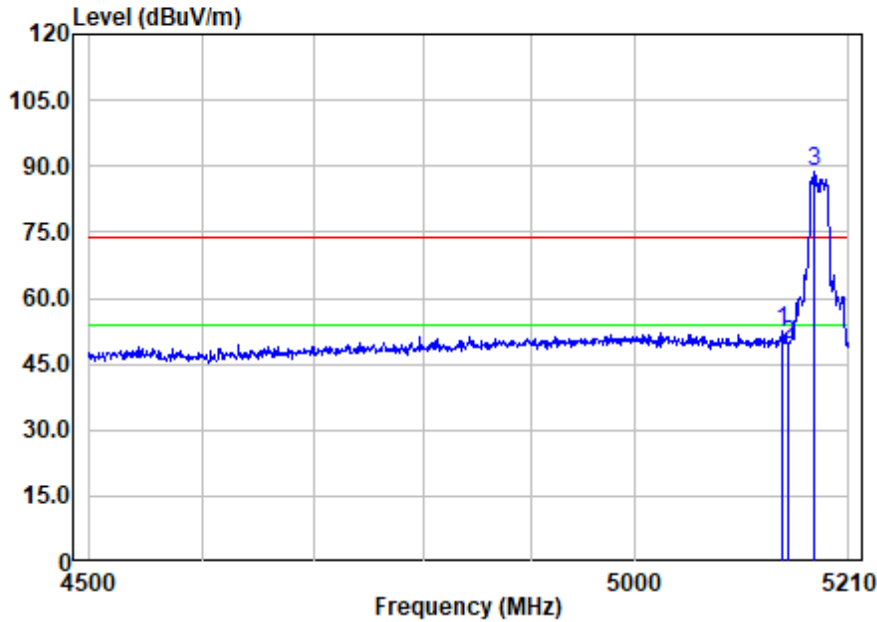
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Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	5144.680	53.90	8.38	32.61	52.69	74.00	-21.31 Peak
2	5150.000	50.74	8.39	32.61	49.50	74.00	-24.50 Peak
3	5175.210	90.14	8.42	32.59	88.76	74.00	14.76 Peak



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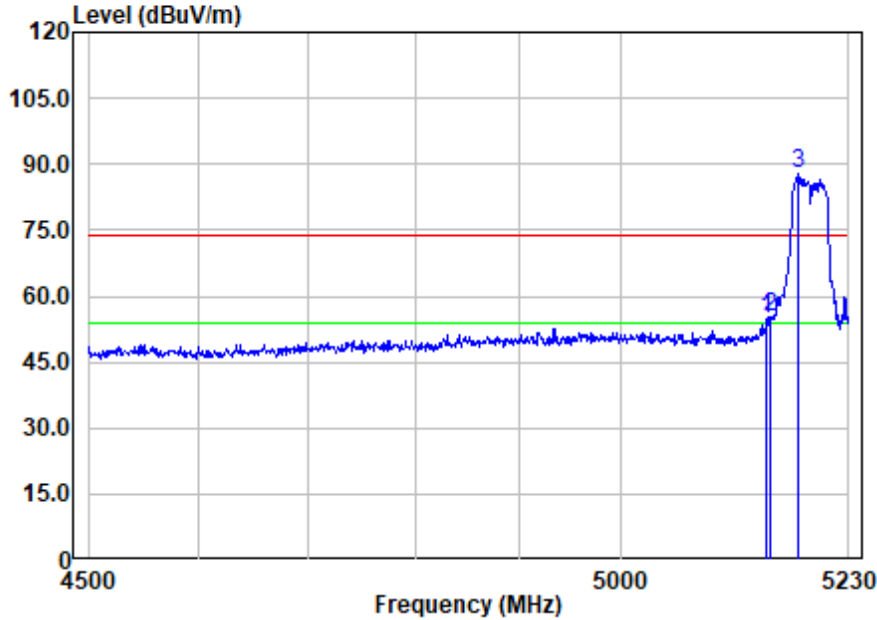
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5145.320	8.39	32.61	54.99	74.00	-19.01 Peak
2	5150.000	8.39	32.61	55.26	74.00	-18.74 Peak
3	5178.900	8.43	32.59	87.63	74.00	13.63 Peak

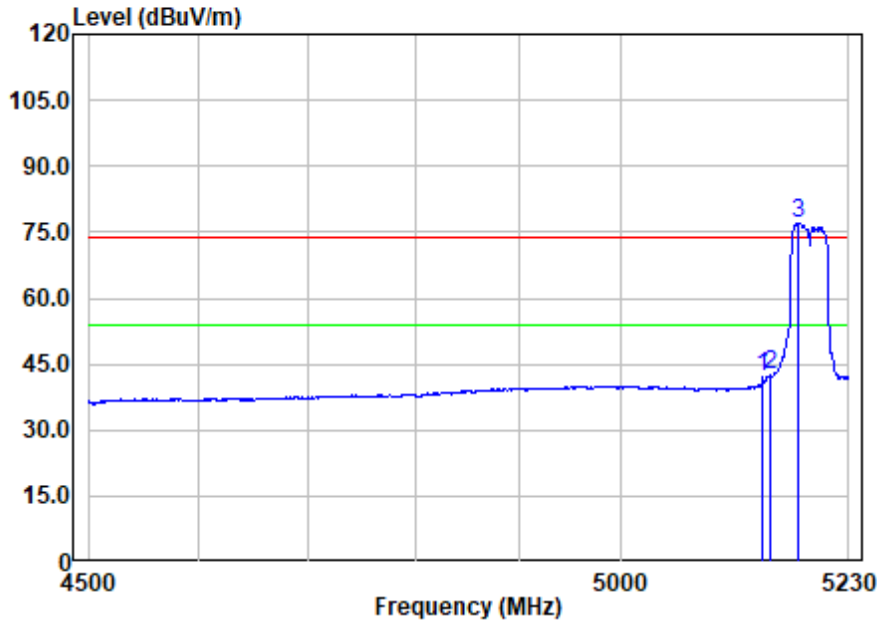


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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5141.670	43.11	8.38	32.62	41.93	54.00	-12.07 Average
2	5150.000	43.62	8.39	32.61	42.38	54.00	-11.62 Average
3	5178.170	78.51	8.43	32.59	77.12	54.00	23.12 Average

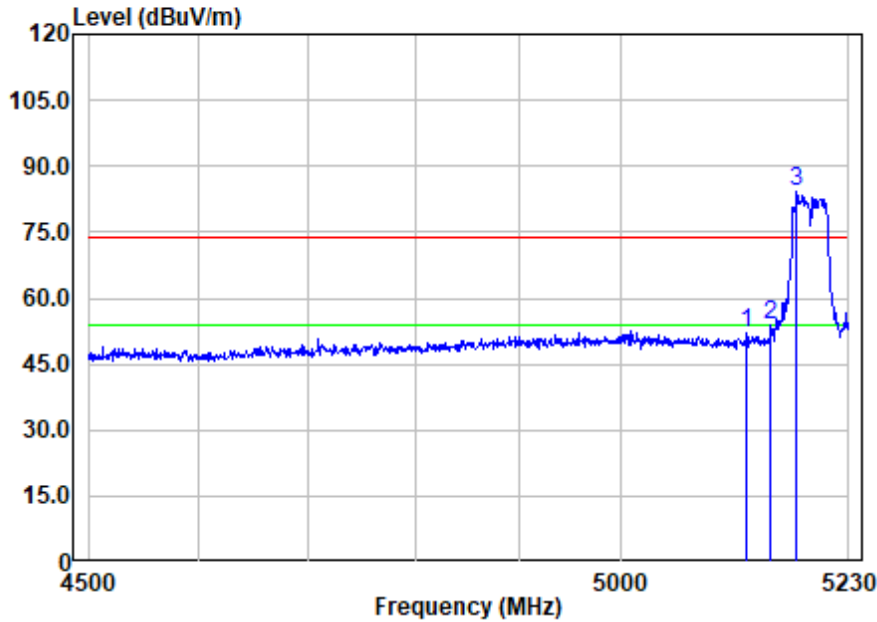


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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dBuV/m	dB
1	5125.610	8.36	32.63	52.24	74.00	-21.76 Peak
2	5150.000	8.39	32.61	53.81	74.00	-20.19 Peak
3	5176.710	8.42	32.59	84.37	74.00	10.37 Peak



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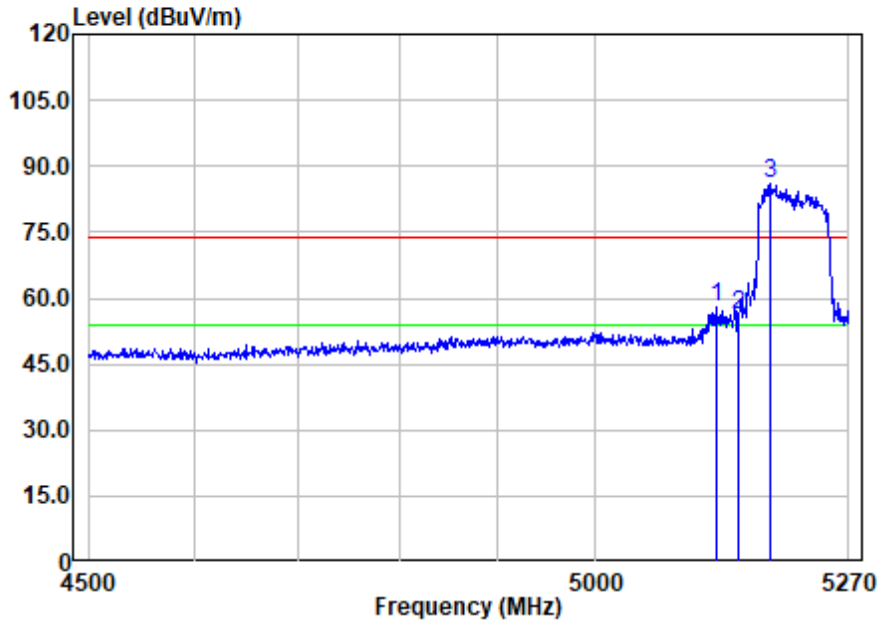
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 86 of 207

Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Read Freq	Level	Cable Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	5126.780	58.94	8.36	32.63	57.84	74.00	-16.16 Peak
2	5150.000	57.22	8.39	32.61	55.98	74.00	-18.02 Peak
3	5184.530	87.32	8.43	32.58	85.88	74.00	11.88 Peak



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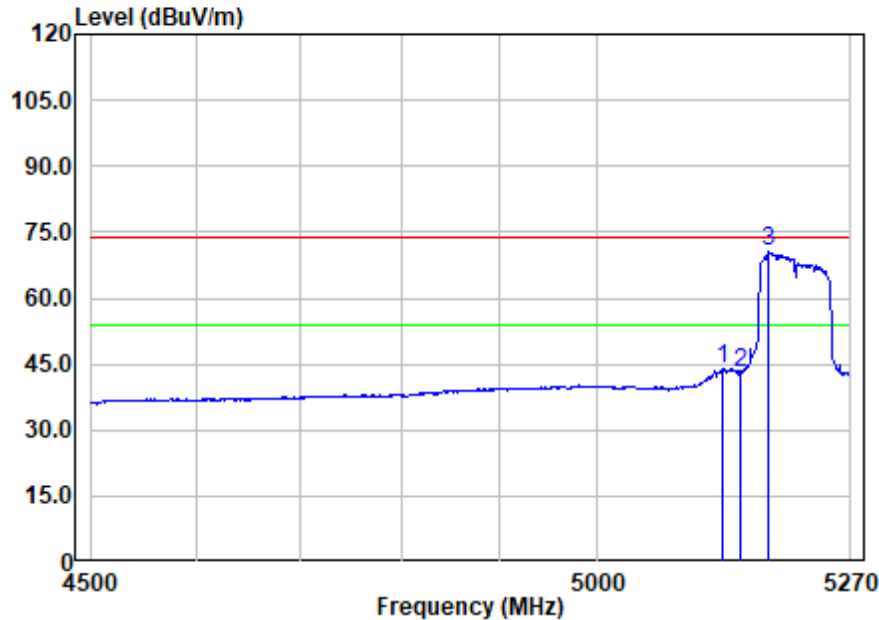
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 87 of 207

Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5132.170	8.37	32.62	44.10	54.00	-9.90 Average
2	5150.000	8.39	32.61	43.06	54.00	-10.94 Average
3	5181.450	8.43	32.58	70.48	54.00	16.48 Average



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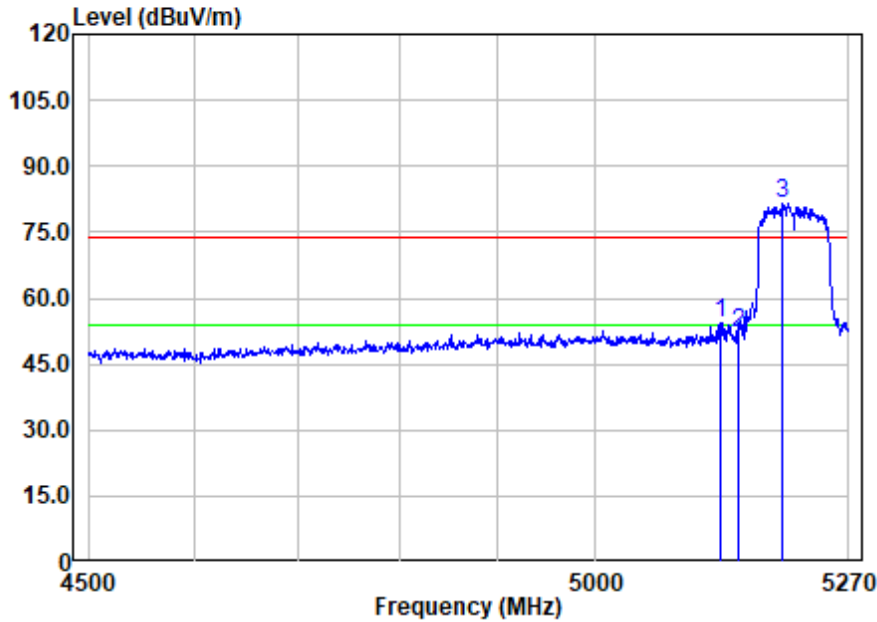
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Read Freq	Cable Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5132.170	8.37	32.62	54.37	74.00	-19.63 Peak
2	5150.000	8.39	32.61	52.21	74.00	-21.79 Peak
3	5198.390	8.45	32.57	81.66	74.00	7.66 Peak



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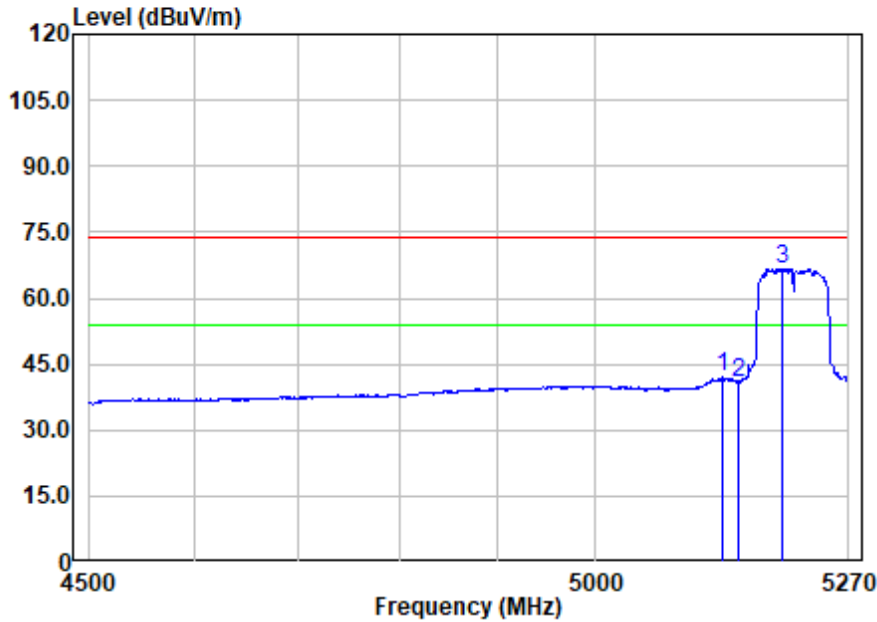
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5133.710	8.37	32.62	42.00	54.00	-12.00 Average
2	5150.000	8.39	32.61	40.90	54.00	-13.10 Average
3	5197.620	8.45	32.57	66.65	54.00	12.65 Average



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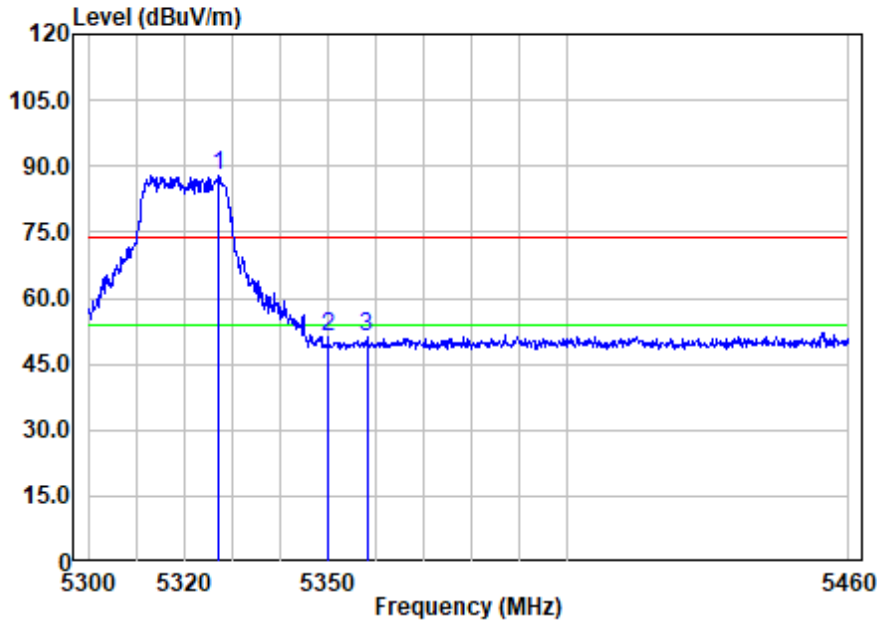
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB
1	5326.880	89.19	8.61	32.53	87.97	74.00 13.97 Peak
2	5350.000	52.32	8.64	32.52	51.24	74.00 -22.76 Peak
3	5358.080	52.41	8.65	32.52	51.39	74.00 -22.61 Peak



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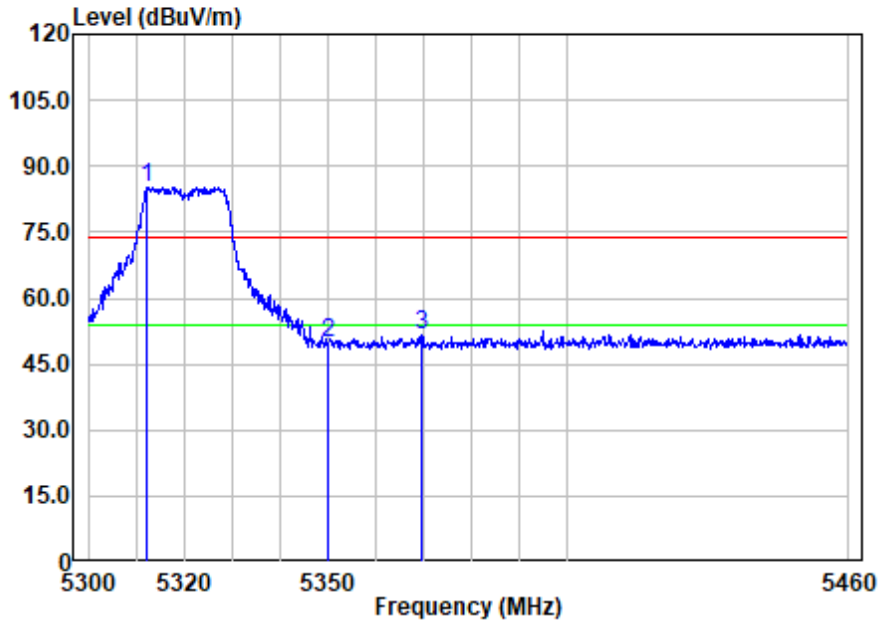
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Level	Cable Loss	Ant Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5312.000	86.59	8.60	32.54	85.29	74.00	11.29	Peak
2	5350.000	50.82	8.64	32.52	49.74	74.00	-24.26	Peak
3	5369.760	52.40	8.67	32.51	51.45	74.00	-22.55	Peak



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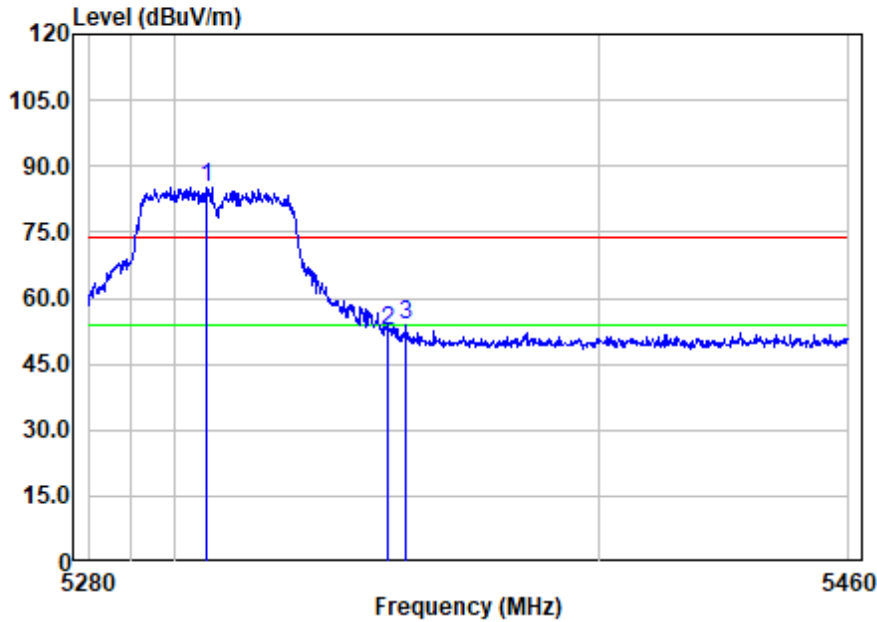
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5307.720	86.58	8.59	32.54	85.25	74.00	11.25 Peak
2	5350.000	53.80	8.64	32.52	52.72	74.00	-21.28 Peak
3	5354.520	54.90	8.65	32.52	53.86	74.00	-20.14 Peak

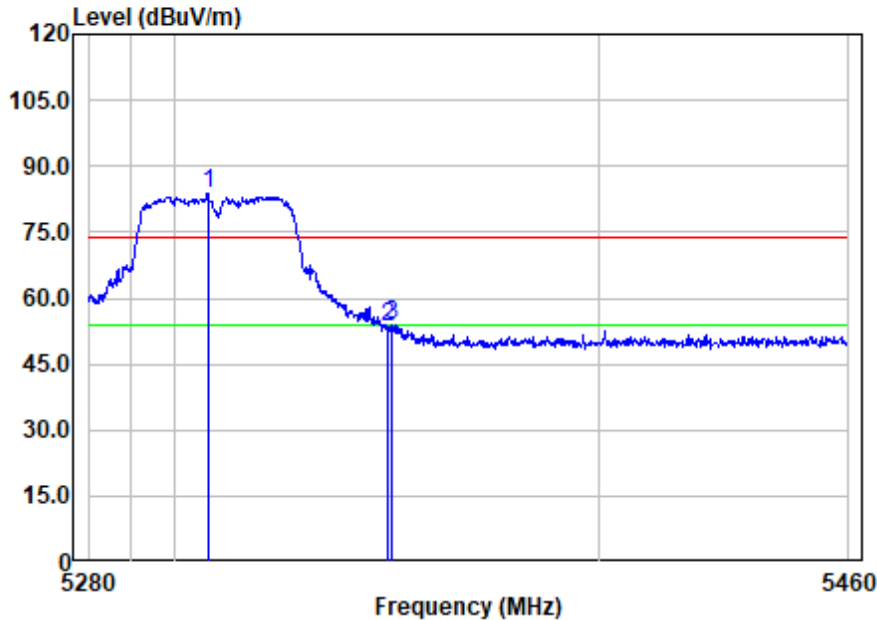


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5308.080	85.00	8.59	32.54	83.67	74.00	9.67 Peak
2	5350.000	54.65	8.64	32.52	53.57	74.00	-20.43 Peak
3	5351.100	54.93	8.65	32.52	53.87	74.00	-20.13 Peak



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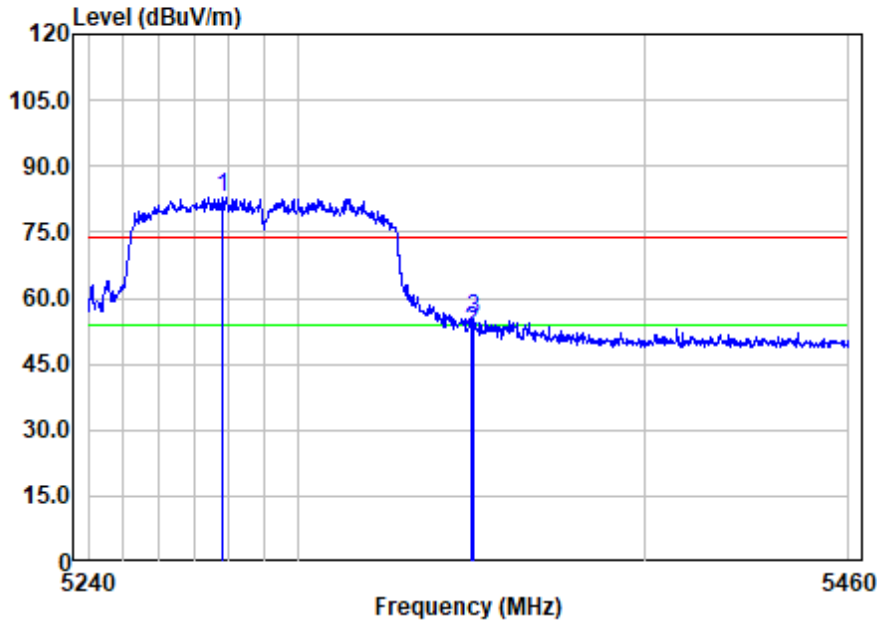
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 5278.060	84.35	8.55	32.55	82.94	74.00	8.94	Peak
2 5350.000	53.57	8.64	32.52	52.49	74.00	-21.51	Peak
3 5350.440	56.23	8.64	32.52	55.16	74.00	-18.84	Peak



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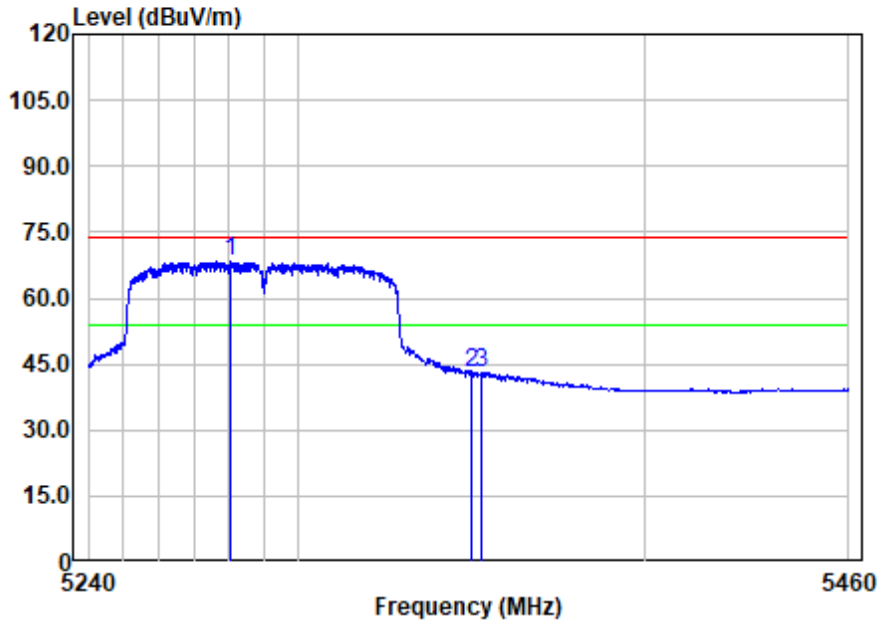
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	5280.700	69.56	8.56	32.55	68.16	54.00	14.16 Average
2	5350.000	44.09	8.64	32.52	43.01	54.00	-10.99 Average
3	5352.860	44.18	8.65	32.52	43.13	54.00	-10.87 Average



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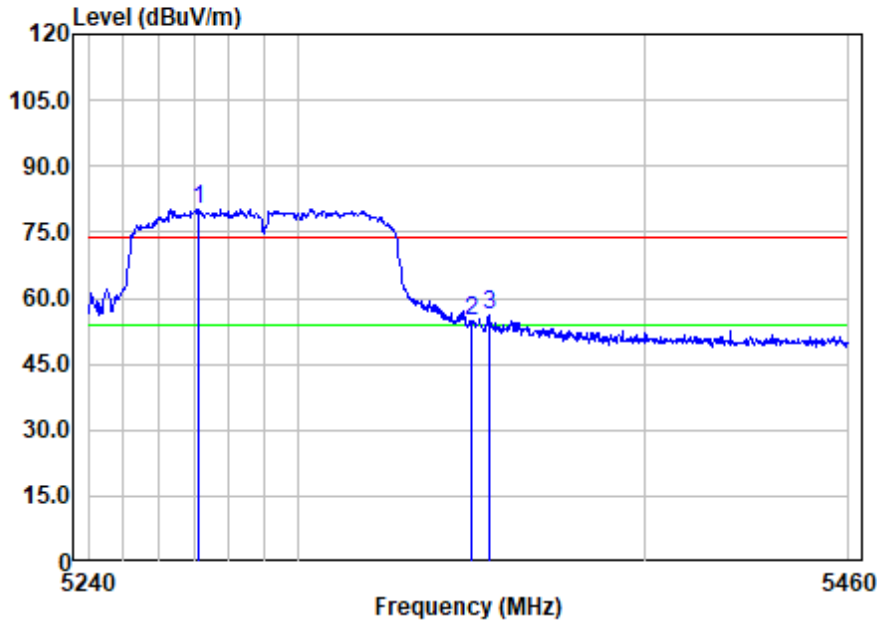
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5271.460	81.72	8.54	32.55	80.30	74.00	6.30 Peak
2	5350.000	55.73	8.64	32.52	54.65	74.00	-19.35 Peak
3	5354.840	57.40	8.65	32.52	56.36	74.00	-17.64 Peak



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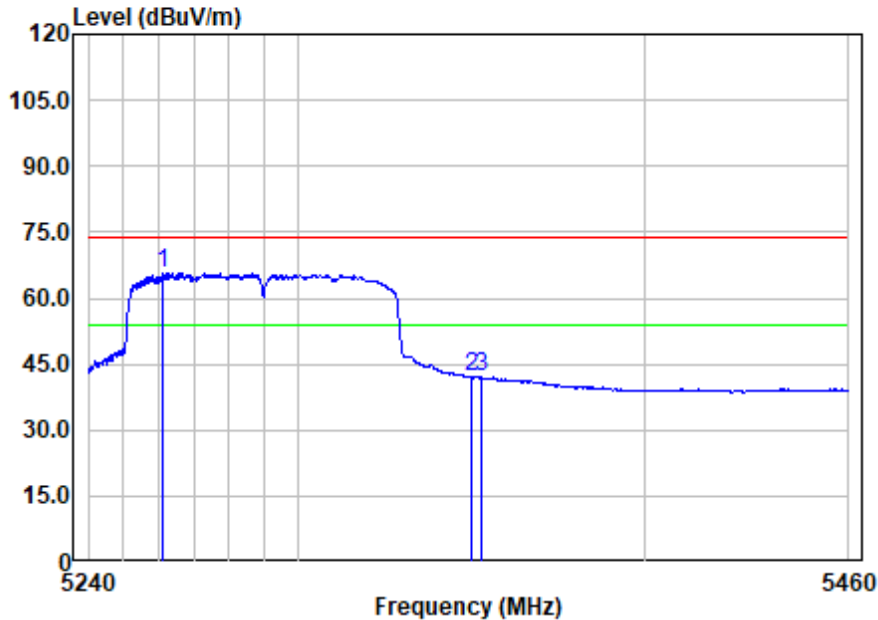
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5261.340	67.27	8.53	32.55	65.83	54.00	11.83 Average
2	5350.000	43.16	8.64	32.52	42.08	54.00	-11.92 Average
3	5352.420	43.17	8.65	32.52	42.12	54.00	-11.88 Average



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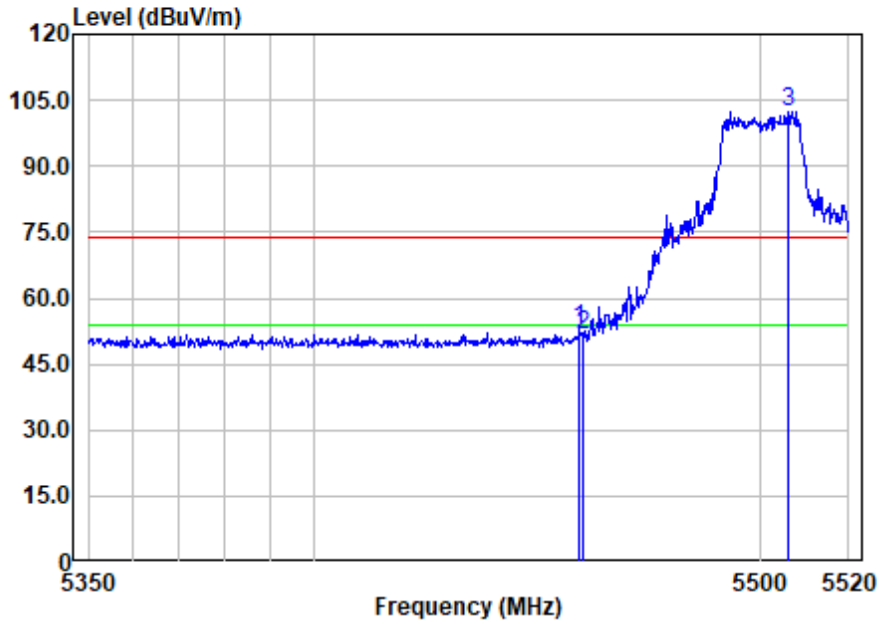
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5459.310	8.78	32.51	52.88	74.00	-21.12 Peak
2	5460.000	8.78	32.51	51.68	74.00	-22.32 Peak
3	5506.400	8.84	32.53	102.55	74.00	28.55 Peak



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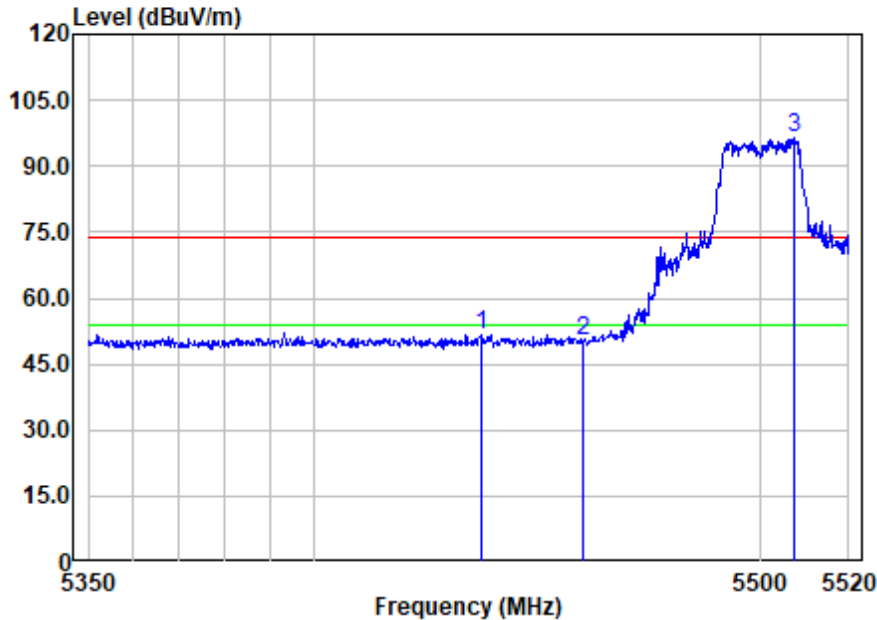
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5437.380	8.75	32.51	51.71	74.00	-22.29 Peak
2	5460.000	8.78	32.51	50.35	74.00	-23.65 Peak
3	5507.760	8.84	32.53	96.55	74.00	22.55 Peak



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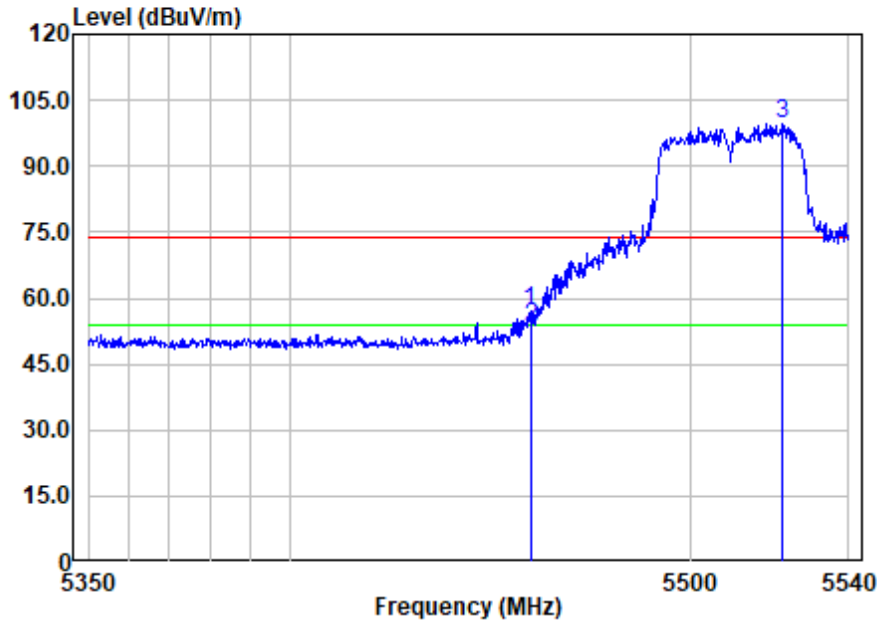
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5459.630	8.78	32.51	57.07	74.00	-16.93 Peak
2	5460.000	8.78	32.51	53.56	74.00	-20.44 Peak
3	5522.900	8.86	32.55	99.82	74.00	25.82 Peak



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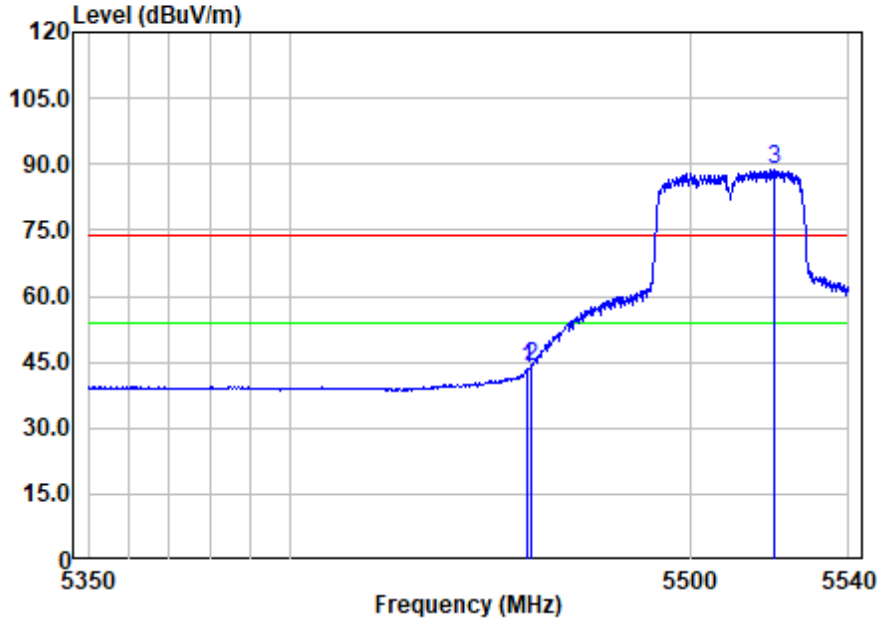
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read Freq	Cable Loss	Ant Factor	Limit	Over	Remark
	MHz	dB	dB/m	dBUV/m	dB	
1	5458.870	8.78	32.51	43.28	54.00	-10.72 Average
2	5460.000	8.78	32.51	43.95	54.00	-10.05 Average
3	5521.190	8.86	32.54	88.64	54.00	34.64 Average



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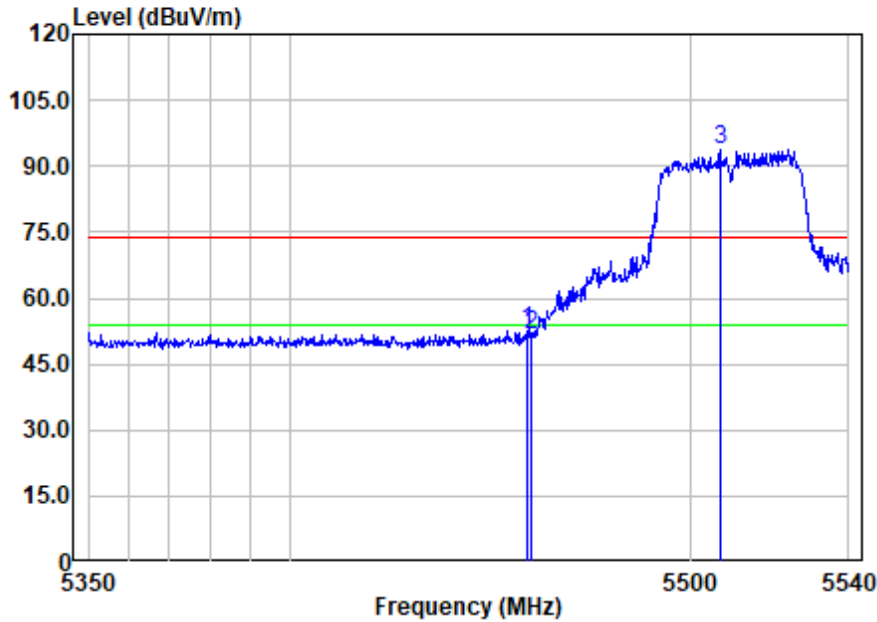
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5458.680	53.25	8.78	32.51	52.74	74.00 -21.26 Peak
2	5460.000	52.16	8.78	32.51	51.65	74.00 -22.35 Peak
3	5507.510	93.98	8.84	32.53	93.69	74.00 19.69 Peak



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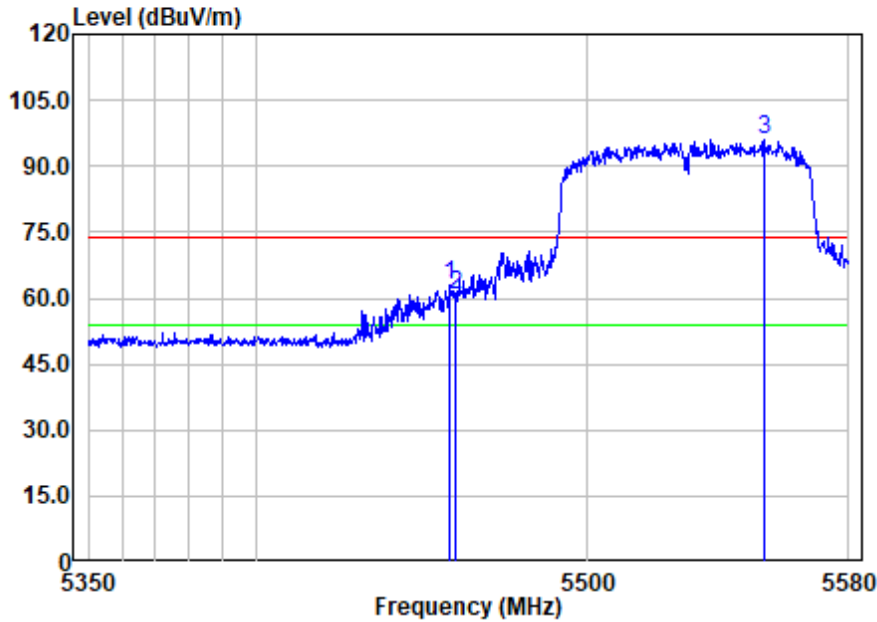
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	5458.330	63.53	8.78	32.51	63.02	74.00	-10.98 Peak
2	5460.000	61.39	8.78	32.51	60.88	74.00	-13.12 Peak
3	5554.010	96.01	8.90	32.58	95.98	74.00	21.98 Peak



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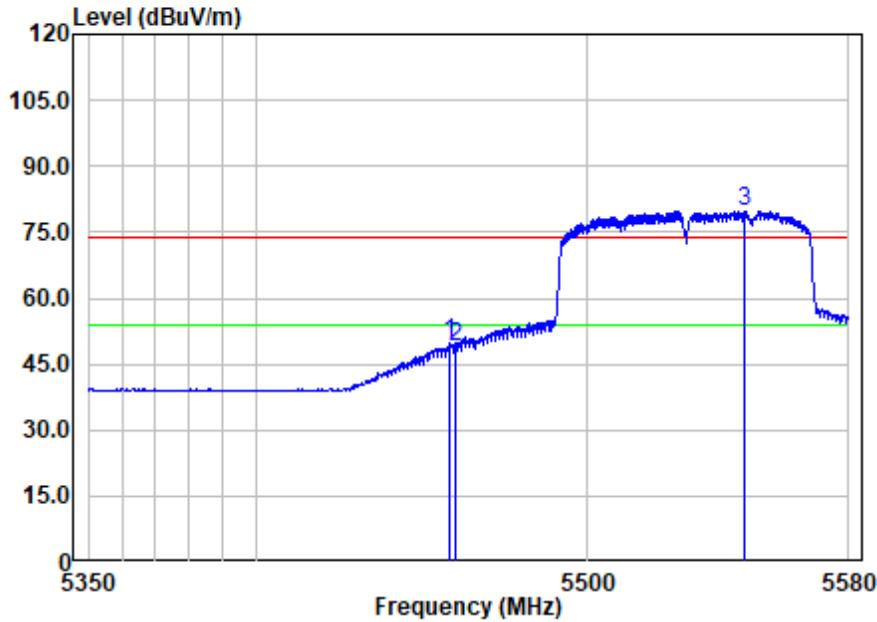
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBUV/m	dB	
1	5458.330	8.78	32.51	49.90	54.00	-4.10 Average
2	5460.000	8.78	32.51	49.00	54.00	-5.00 Average
3	5548.030	8.89	32.57	79.66	54.00	25.66 Average



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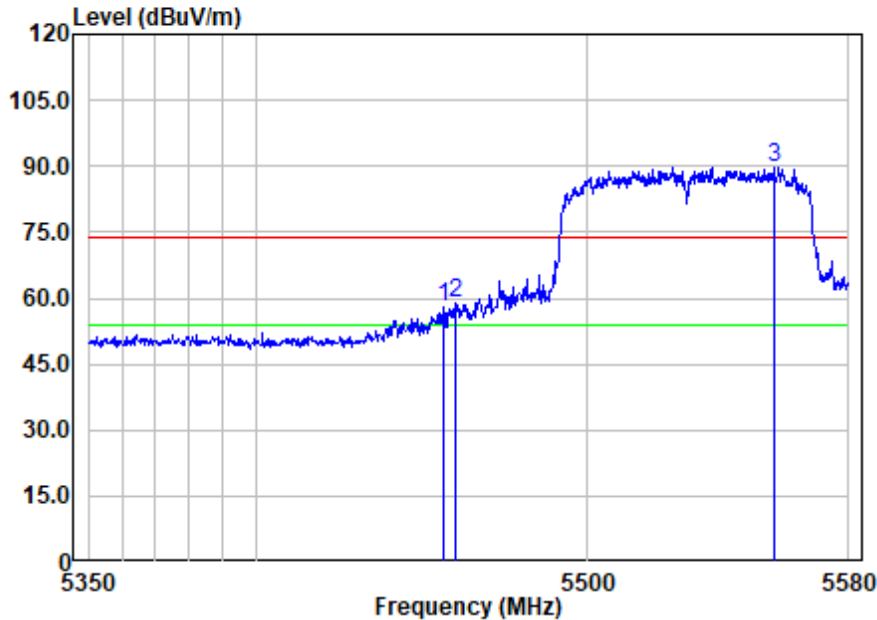
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Compliance Certification Services (Kunshan) Inc.

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



	Read Freq	Read Level	Cable Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	5456.260	58.63	8.78	32.51	58.11	74.00	-15.89 Peak
2	5460.000	59.23	8.78	32.51	58.72	74.00	-15.28 Peak
3	5557.000	89.84	8.91	32.58	89.83	74.00	15.83 Peak



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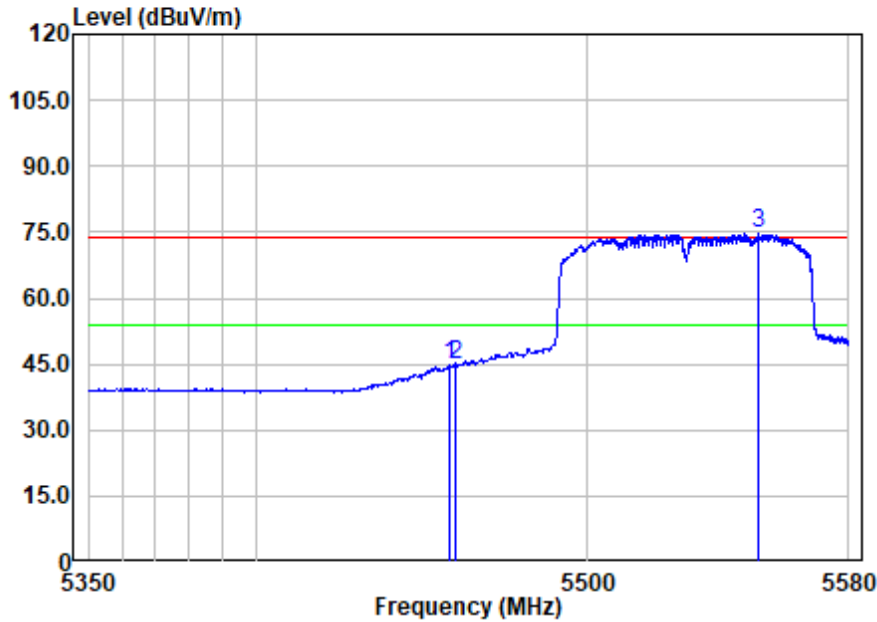
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5458.330	45.31	8.78	32.51	44.80	54.00	-9.20 Average
2	5460.000	45.14	8.78	32.51	44.63	54.00	-9.37 Average
3	5552.400	74.65	8.90	32.58	74.61	54.00	20.61 Average



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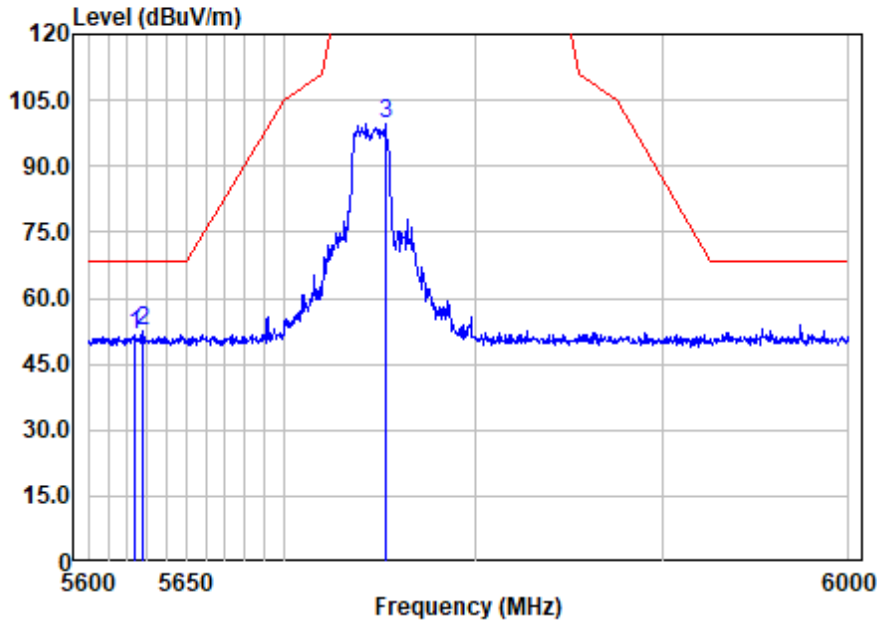
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5623.600	51.31	8.94	32.73	51.49	68.20	-16.71 Peak
2	5627.600	52.20	8.95	32.74	52.38	68.20	-15.82 Peak
3	5753.200	99.14	9.01	33.28	99.47	135.00	-35.53 Peak



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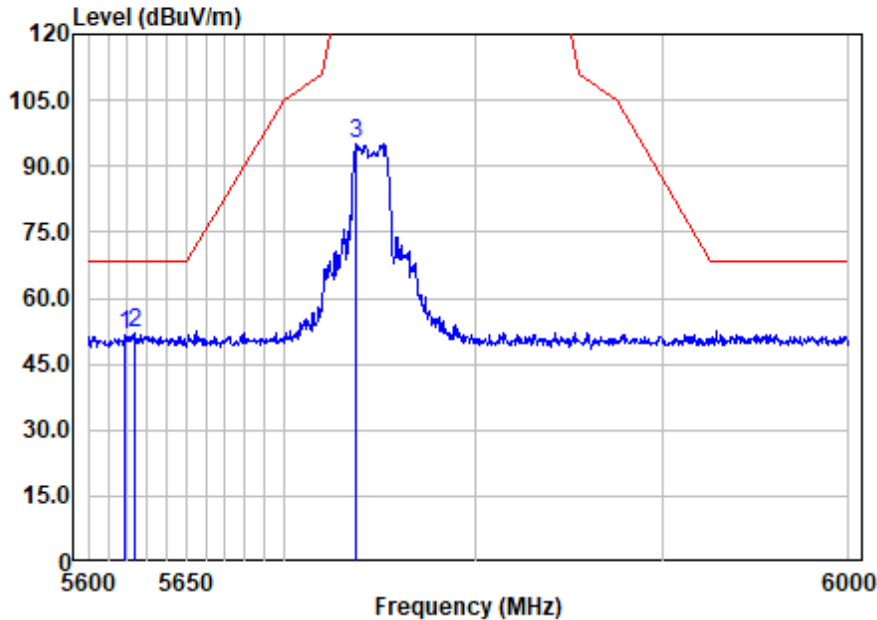
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 108 of 207

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



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5618.400	51.43	8.94	32.71	51.61	68.20	-16.59 Peak
2	5624.000	51.71	8.94	32.73	51.89	68.20	-16.31 Peak
3	5737.200	94.84	9.00	33.21	95.11	135.00	-39.89 Peak



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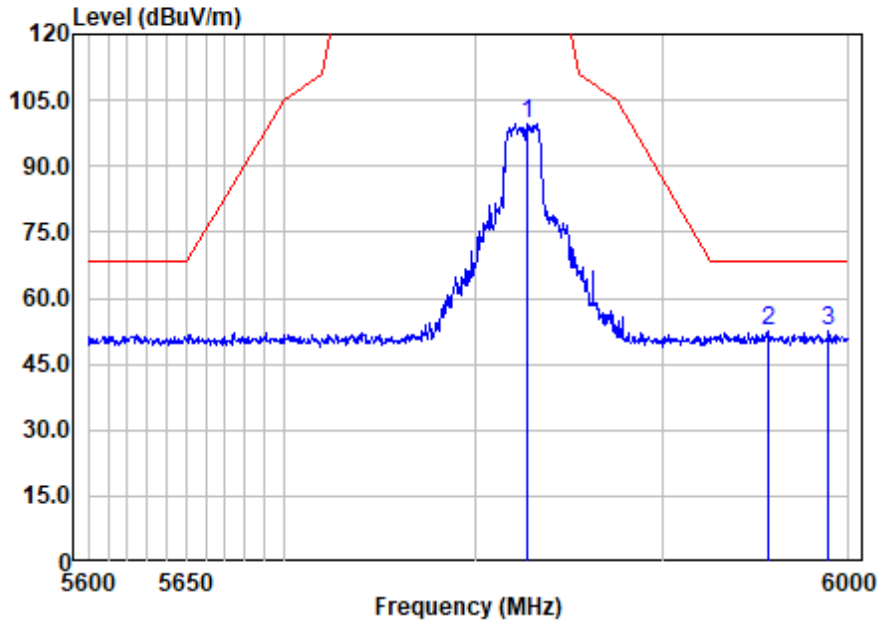
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 109 of 207

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



	Read Freq	Cable Level	Ant Loss	Ant Factor	Limit Level	Over Line	Limit	Over Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5827.600	99.25	9.05	33.53	99.67	135.00	-35.33	Peak
2	5956.800	52.16	9.12	33.53	52.35	68.20	-15.85	Peak
3	5989.200	52.20	9.13	33.48	52.38	68.20	-15.82	Peak

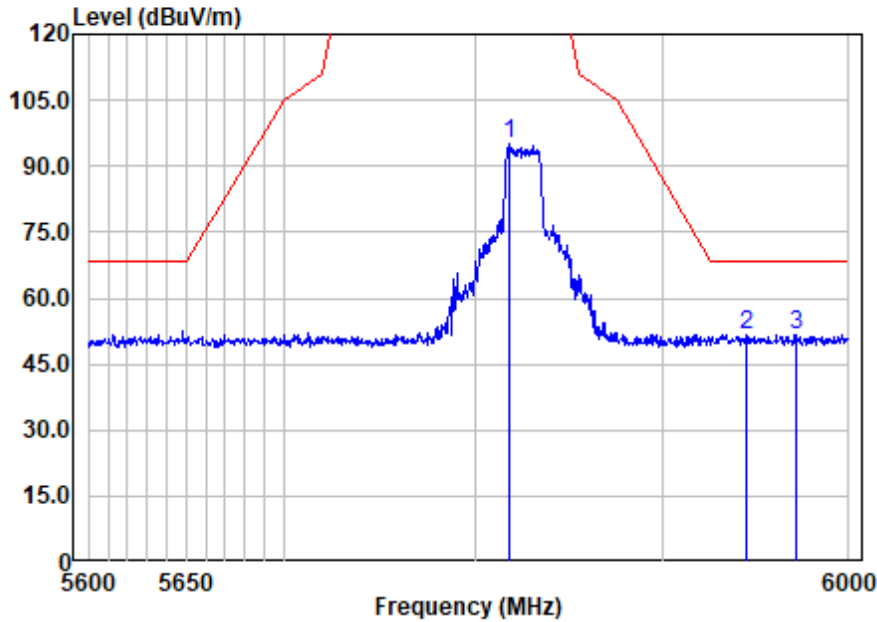


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 5818.000	94.78	9.04	33.52	95.23	135.00	-39.77	Peak
2 5944.400	51.62	9.11	33.54	51.79	68.20	-16.41	Peak
3 5971.200	51.34	9.12	33.51	51.52	68.20	-16.68	Peak

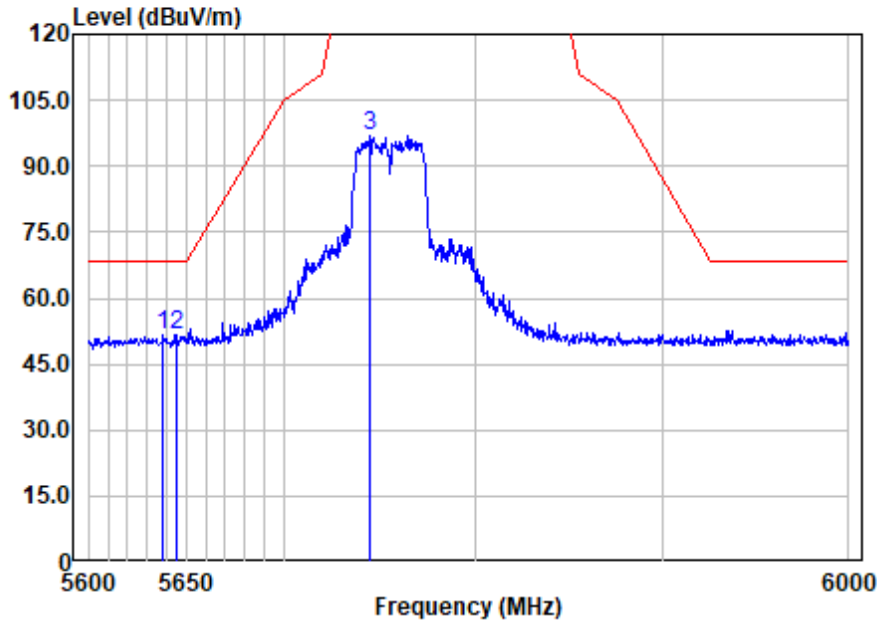


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5638.400	51.23	8.95	32.79	51.40	68.20	-16.80 Peak
2	5644.800	51.58	8.95	32.81	51.74	68.20	-16.46 Peak
3	5744.800	96.49	9.01	33.25	96.80	135.00	-38.20 Peak



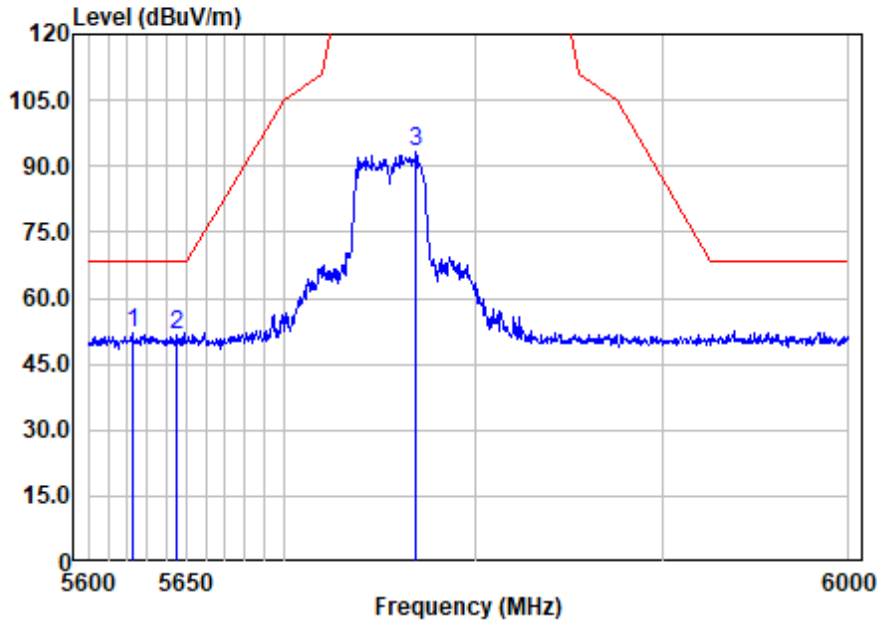
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Read	Cable	Ant		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	5622.400	51.74	8.94	32.72	51.91	68.20	-16.29 Peak
2	5645.200	51.58	8.95	32.82	51.74	68.20	-16.46 Peak
3	5769.200	92.97	9.02	33.36	93.37	135.00	-41.63 Peak

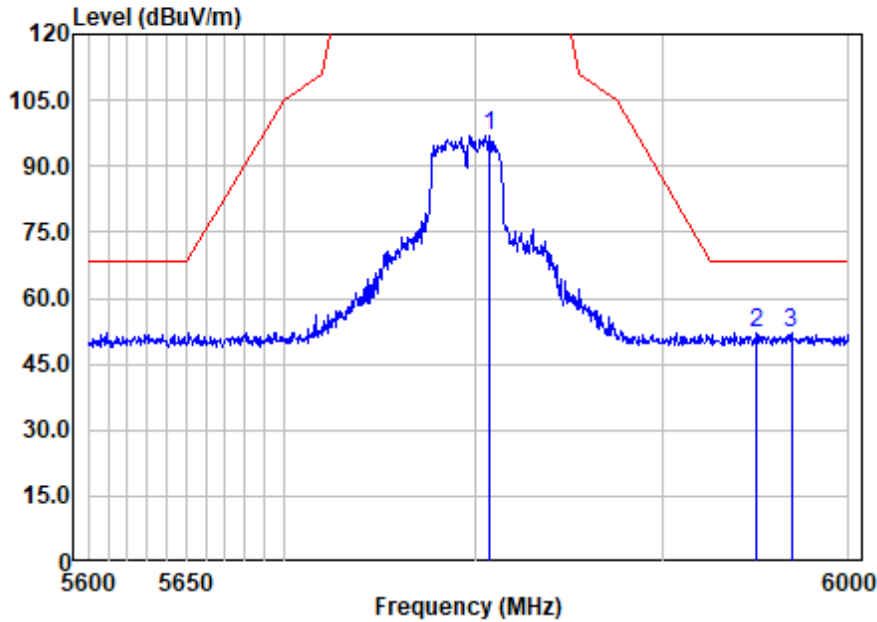


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Read Freq	Cable Loss	Ant Factor	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV/m	dB	
1	5808.000	9.04	33.51	96.97	135.00	-38.03 Peak
2	5950.400	9.11	33.53	52.26	68.20	-15.94 Peak
3	5968.800	9.12	33.51	52.10	68.20	-16.10 Peak



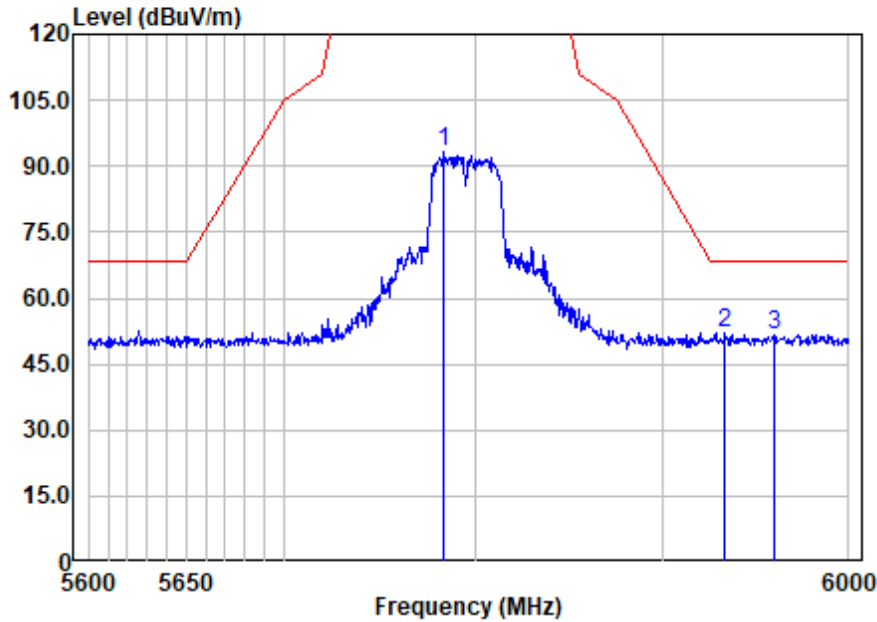
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Read Freq	Level	Cable Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	5783.600	92.69	9.03	33.42	93.14	135.00	-41.86 Peak
2	5933.200	51.95	9.11	33.56	52.13	68.20	-16.07 Peak
3	5960.000	51.33	9.12	33.52	51.51	68.20	-16.69 Peak



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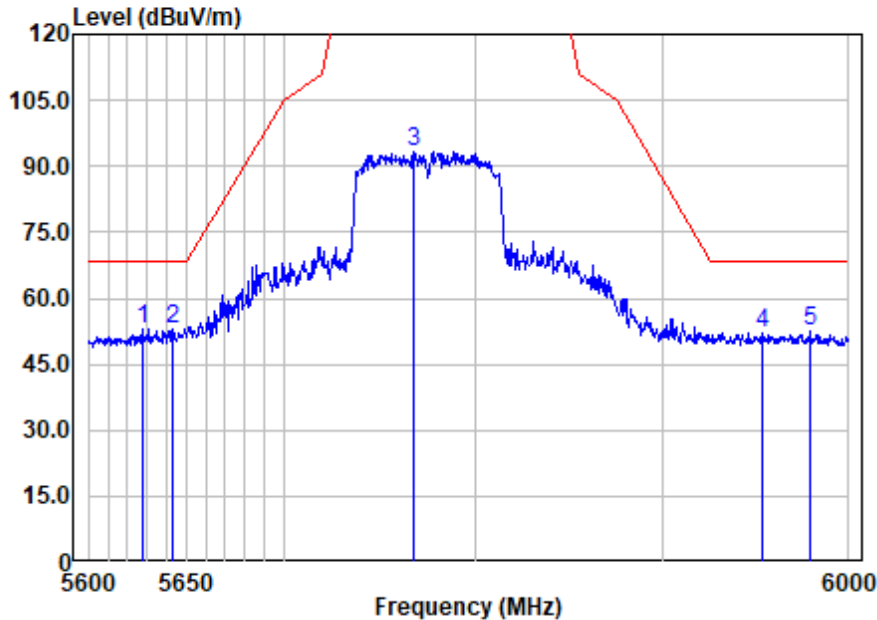
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Report No.: KSCR220900161101

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



	Read Freq	Read Level	Cable Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	5627.600	52.90	8.95	32.74	53.08	68.20	-15.12 Peak
2	5642.800	52.64	8.95	32.81	52.81	68.20	-15.39 Peak
3	5767.600	92.74	9.02	33.35	93.13	135.00	-41.87 Peak
4	5953.600	51.87	9.12	33.53	52.05	68.20	-16.15 Peak
5	5979.200	52.13	9.13	33.50	52.32	68.20	-15.88 Peak



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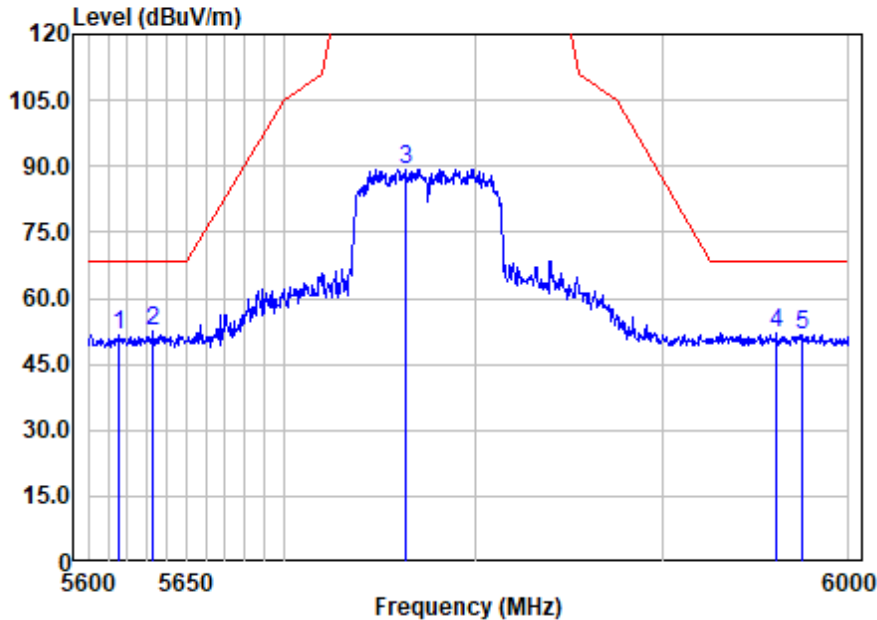
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Read Freq	Level	Cable Loss	Ant Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dB	
1	5616.000	51.50	8.94	32.70	51.69	68.20	-16.51 Peak
2	5633.200	52.32	8.95	32.77	52.50	68.20	-15.70 Peak
3	5763.600	89.04	9.02	33.33	89.42	135.00	-45.58 Peak
4	5960.800	51.73	9.12	33.52	51.91	68.20	-16.29 Peak
5	5974.400	51.54	9.13	33.50	51.72	68.20	-16.48 Peak



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7.9 Frequency Stability

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

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

7.9.1 E.U.T. Operation

Operating Environment:

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

7.9.2 Test Mode Description

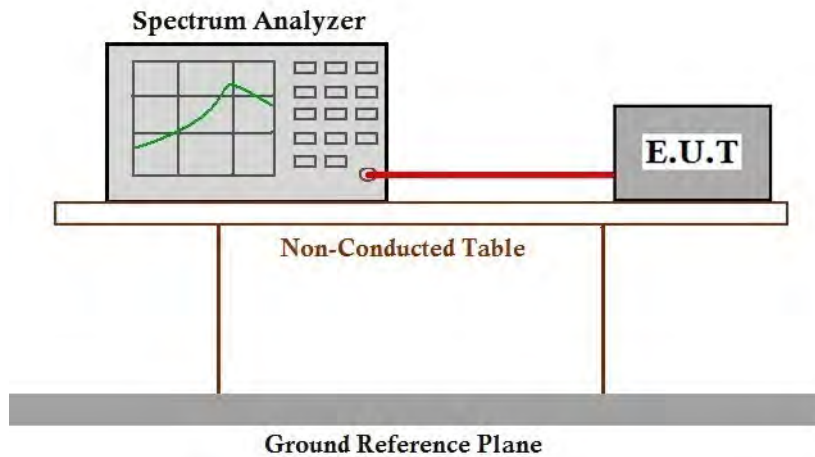
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the 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.
	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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7.10 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.10.1 E.U.T. Operation

Operating Environment:

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

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the 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 test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the 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.
	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the 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.
	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the

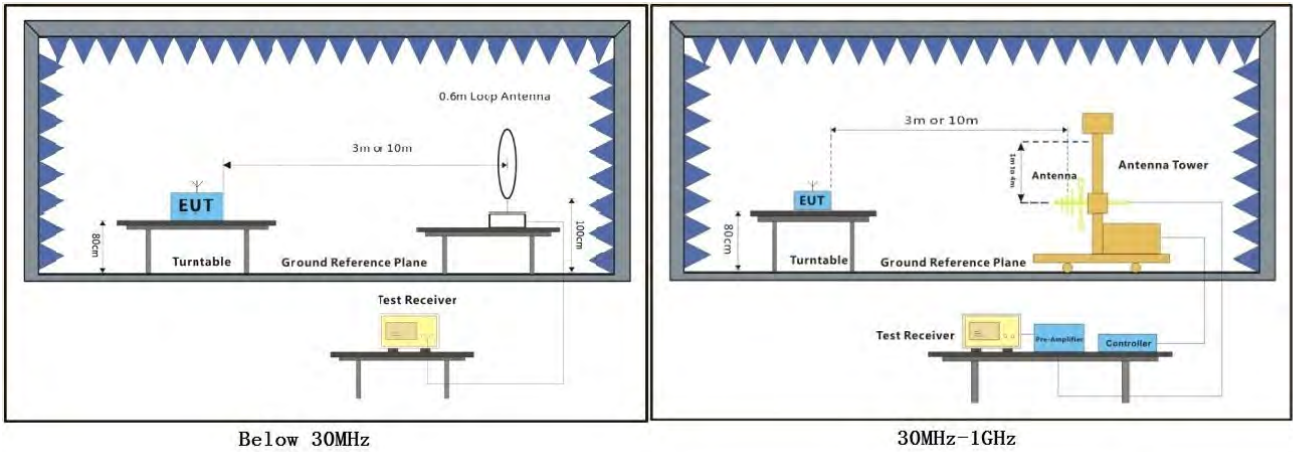


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		worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
03		TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



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7.10.4 Measurement Procedure and Data

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

Remark:

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



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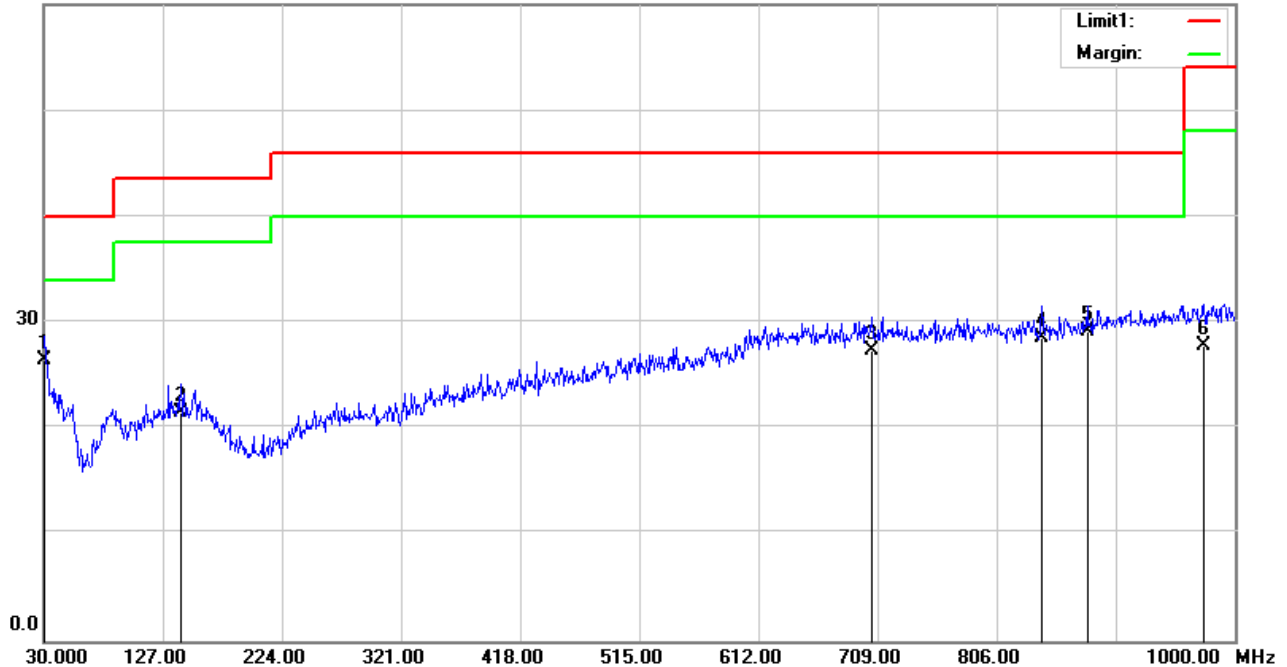
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Below 1GHz

Mode:00; Polarization:Horizontal;

60.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	1.15	25.38	26.53	40.00	-13.47	100	112	QP
2	141.5500	1.70	19.86	21.56	43.50	-21.94	100	213	QP
3	704.1500	-0.14	27.50	27.36	46.00	-18.64	100	291	QP
4	842.8600	0.61	28.04	28.65	46.00	-17.35	100	0	QP
5	879.7200	0.69	28.43	29.12	46.00	-16.88	100	292	QP
6	974.7800	-1.36	29.25	27.89	54.00	-26.11	100	360	QP

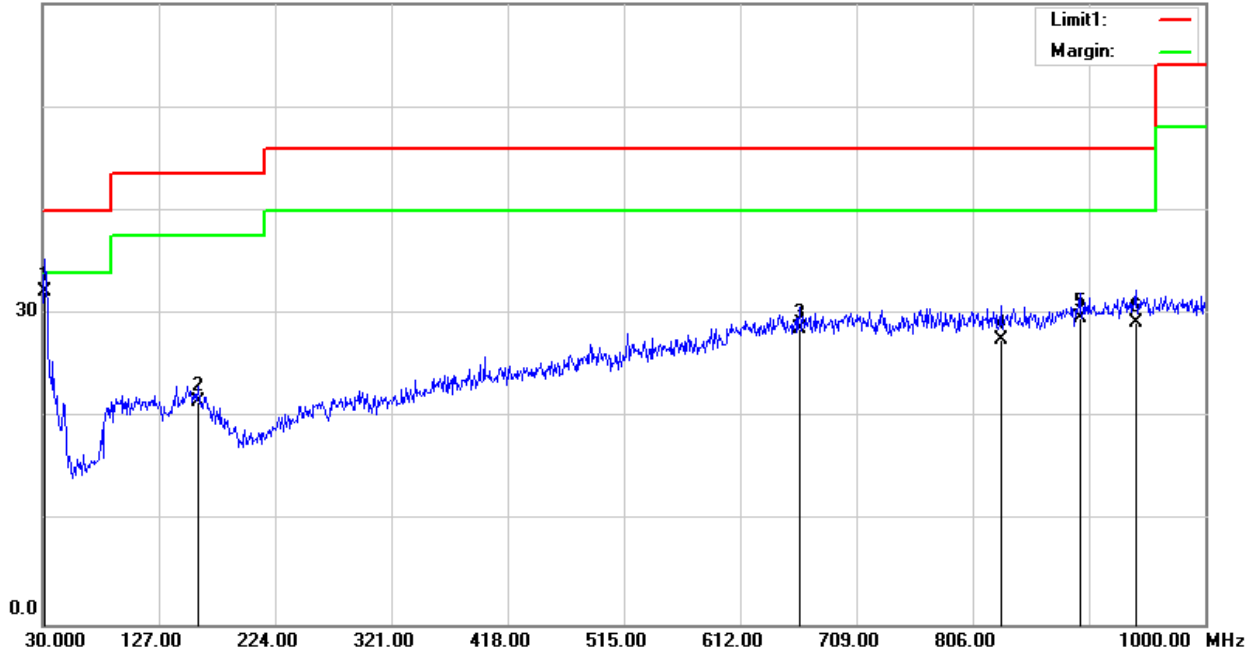


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Mode:00; Polarization:Vertical

60.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.9400	7.30	24.82	32.12	40.00	-7.88	100	0	QP
2	159.9800	2.20	19.36	21.56	43.50	-21.94	100	0	QP
3	661.4700	1.45	27.20	28.65	46.00	-17.35	100	149	QP
4	829.2800	-0.49	27.98	27.49	46.00	-18.51	201	360	QP
5	895.2400	1.04	28.61	29.65	46.00	-16.35	201	360	QP
6	941.8000	-0.09	29.20	29.11	46.00	-16.89	100	0	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2209001611AT



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2209001611AT



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10 Appendix

Power level setting using in test:

Channel	802.11ac(VHT20)	Channel	802.11ac(VHT40)
	Ant 1		Ant 1
36	15	38	15
40	15	46	15
48	15	54	15
52	15	62	15
60	15	102	15
64	16	110	16
100	16	134	16
116	16	151	17
140	16	159	17
149	17		
157	17		
165	17		
Channel	802.11ac(VHT80)		
	Ant 1		
42	15		
58	15		
106	15		
122	15		
155	15		



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1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

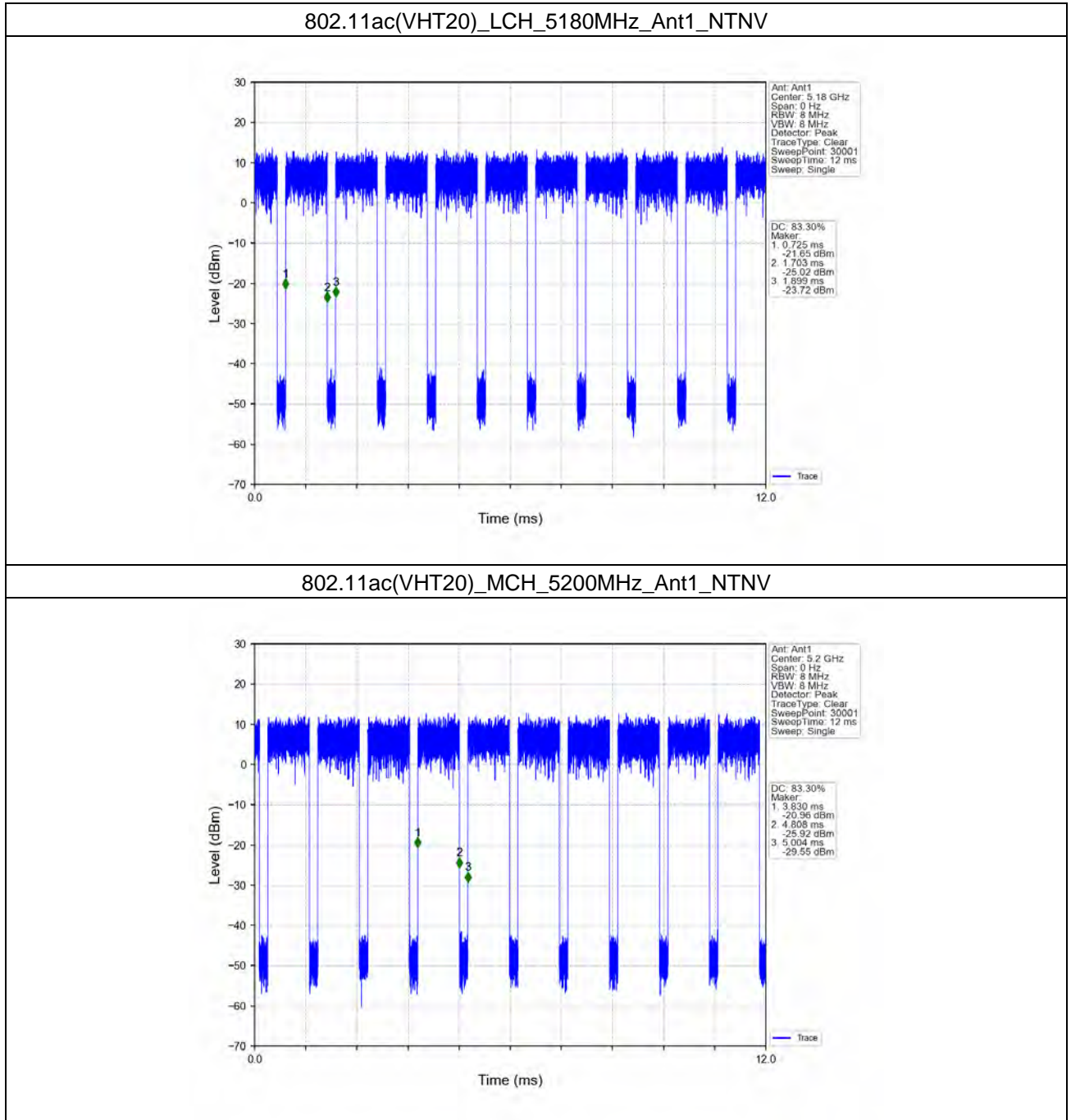
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11ac (VHT20)	SISO	5180	0.978	1.174	83.30	0.79	0.03
		5200	0.978	1.174	83.30	0.79	0.01
		5240	0.978	1.174	83.30	0.79	0.01
		5260	0.978	1.174	83.30	0.79	0.06
		5300	0.978	1.174	83.30	0.79	0.03
		5320	0.978	1.174	83.30	0.79	0.03
		5500	0.976	1.175	83.06	0.81	0.03
		5580	0.978	1.174	83.30	0.79	0.03
		5700	0.978	1.174	83.30	0.79	0.01
		5745	0.978	1.174	83.30	0.79	0.04
		5785	0.978	1.174	83.30	0.79	0.03
5825	0.978	1.174	83.30	0.79	0.01		
802.11ac (VHT40)	SISO	5190	0.494	0.691	71.49	1.46	0.03
		5230	0.494	0.691	71.49	1.46	0.03
		5270	0.494	0.692	71.39	1.46	0.03
		5310	0.494	0.691	71.49	1.46	0.04
		5510	0.494	0.692	71.39	1.46	0.03
		5550	0.494	0.691	71.49	1.46	0.03
		5670	0.494	0.691	71.49	1.46	0.01
		5755	0.493	0.691	71.35	1.47	0.03
5795	0.494	0.692	71.39	1.46	0.06		
802.11ac (VHT80)	SISO	5210	0.250	0.448	55.80	2.53	0.05
		5290	0.250	0.448	55.80	2.53	0.09
		5530	0.250	0.448	55.80	2.53	0.03
		5610	0.254	0.448	56.70	2.46	0.08
		5775	0.249	0.447	55.70	2.54	0.05



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1.1.2 Test Graph



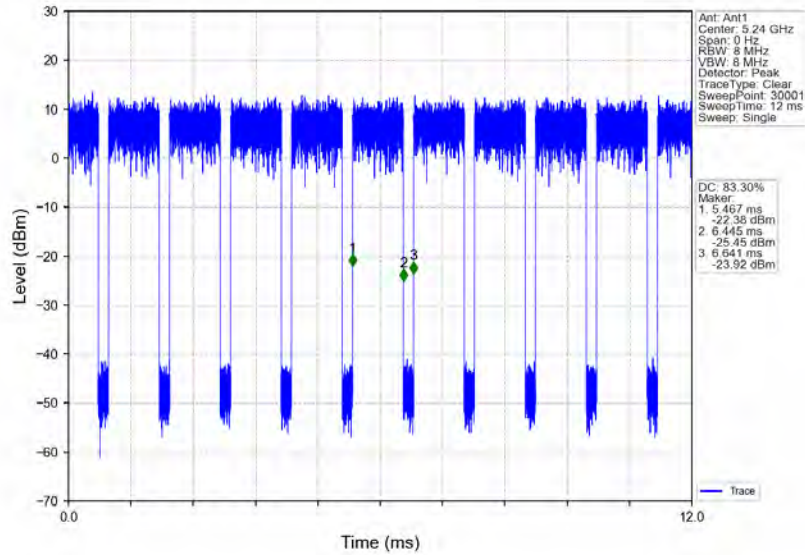
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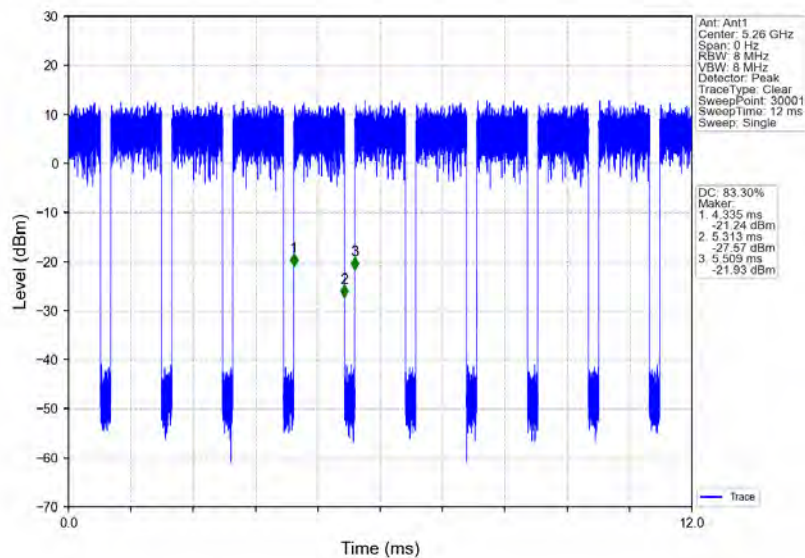
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



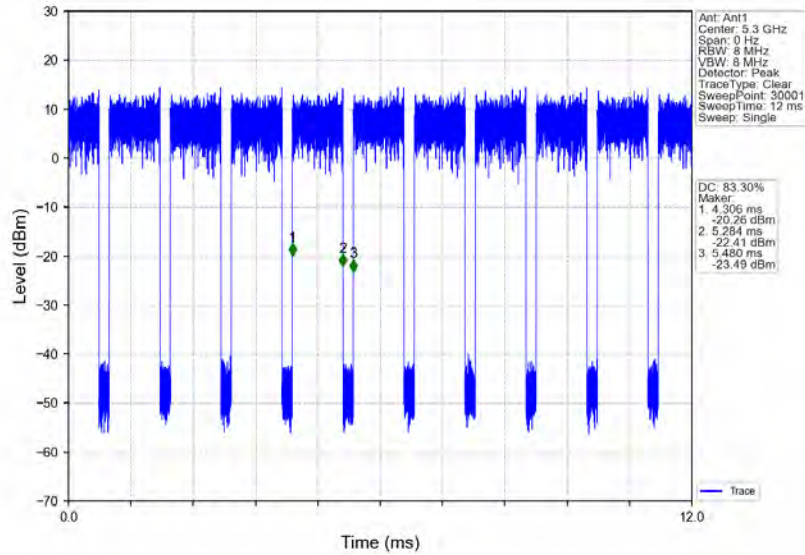
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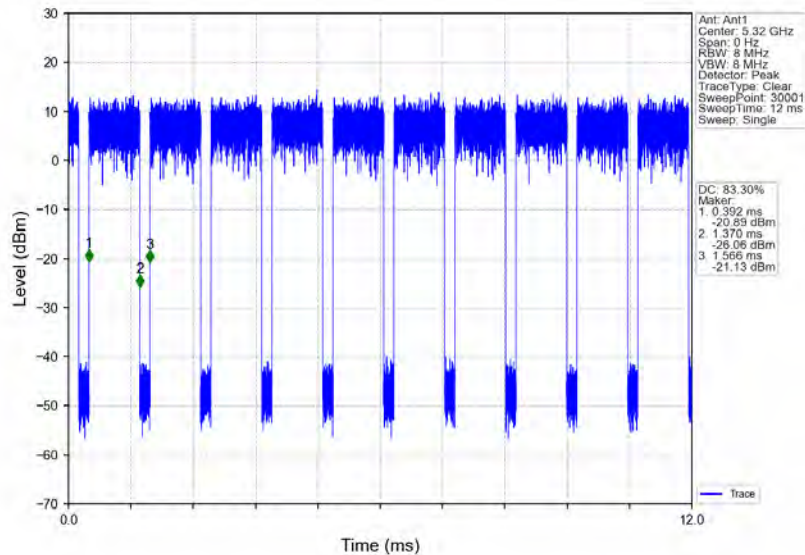
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



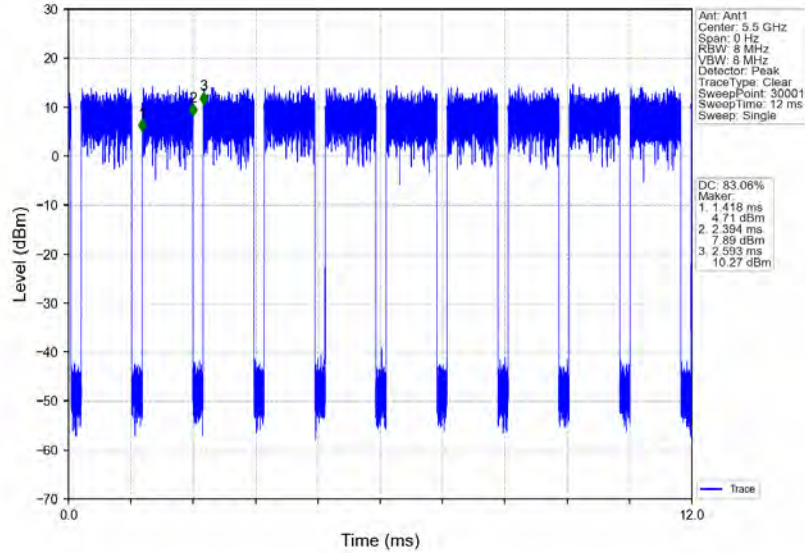
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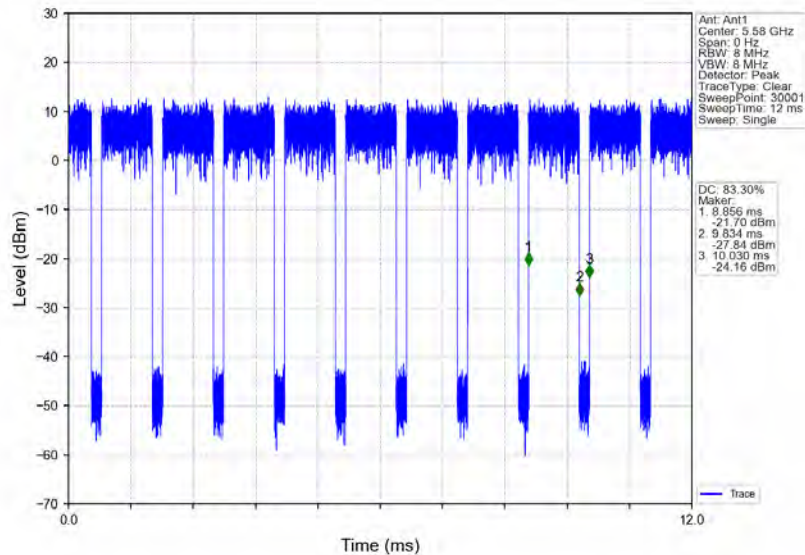
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

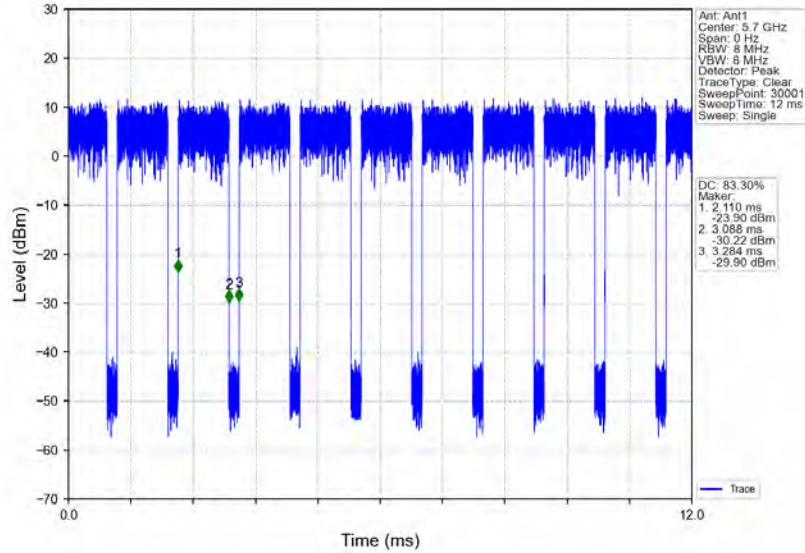


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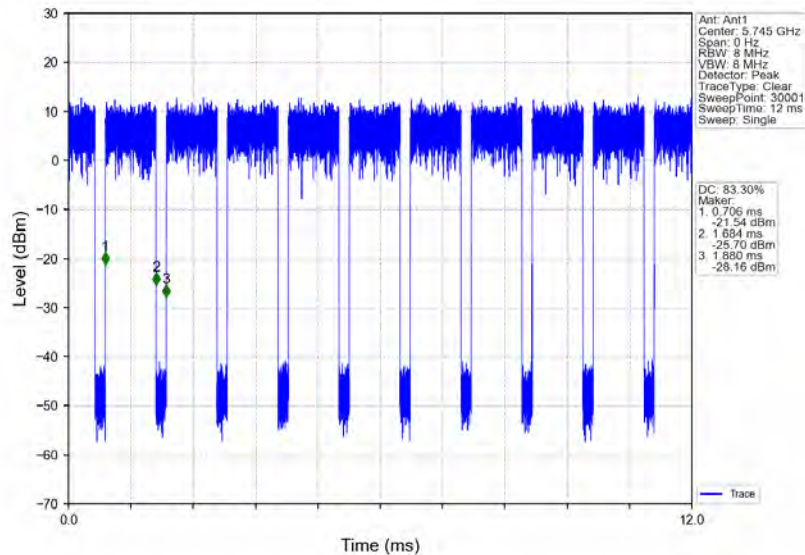
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



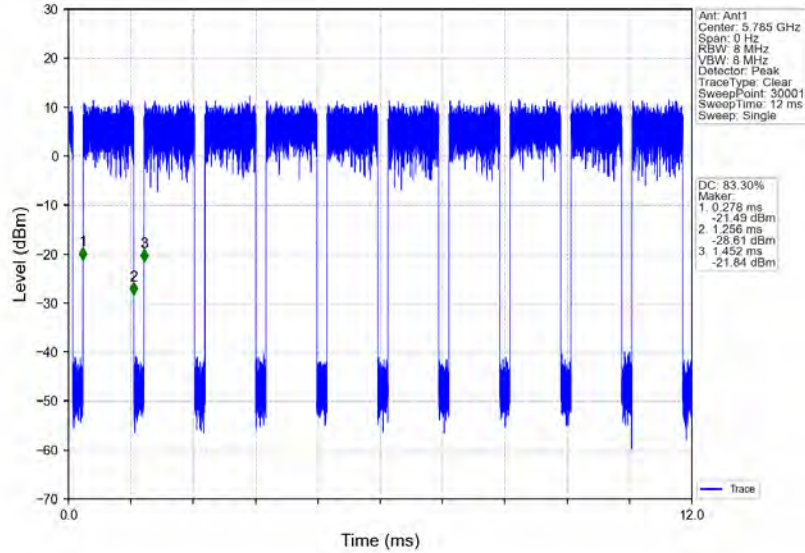
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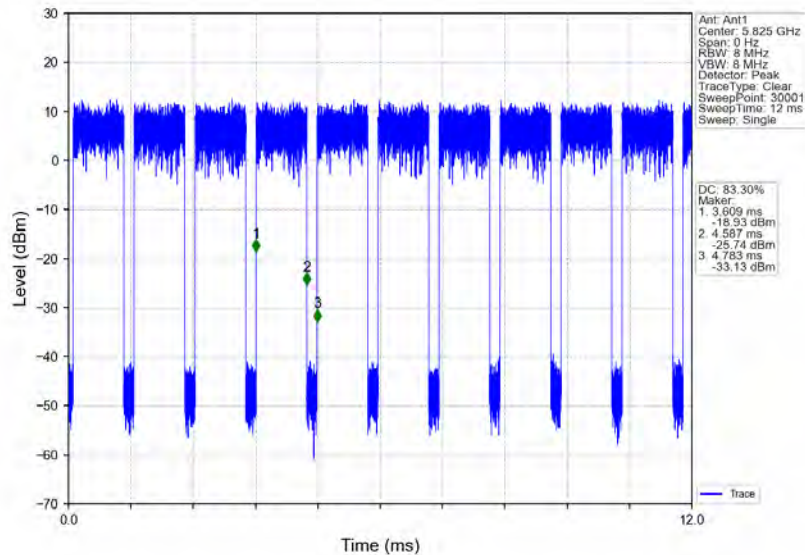
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



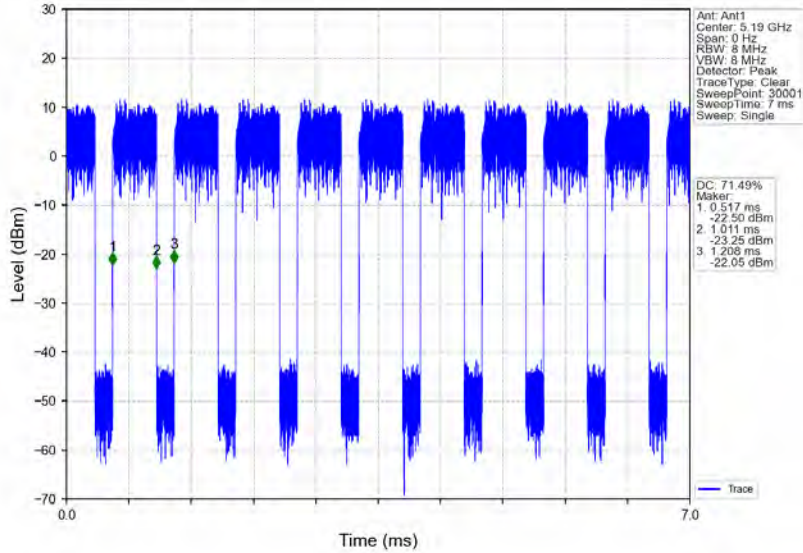
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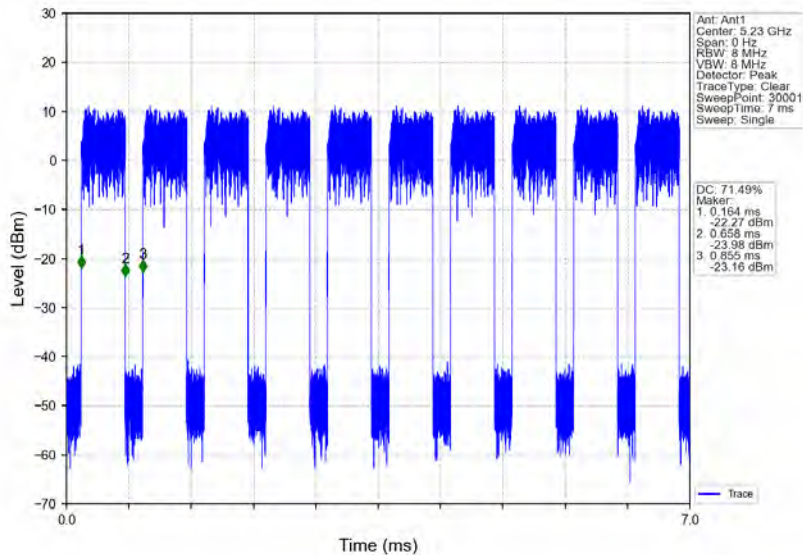
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



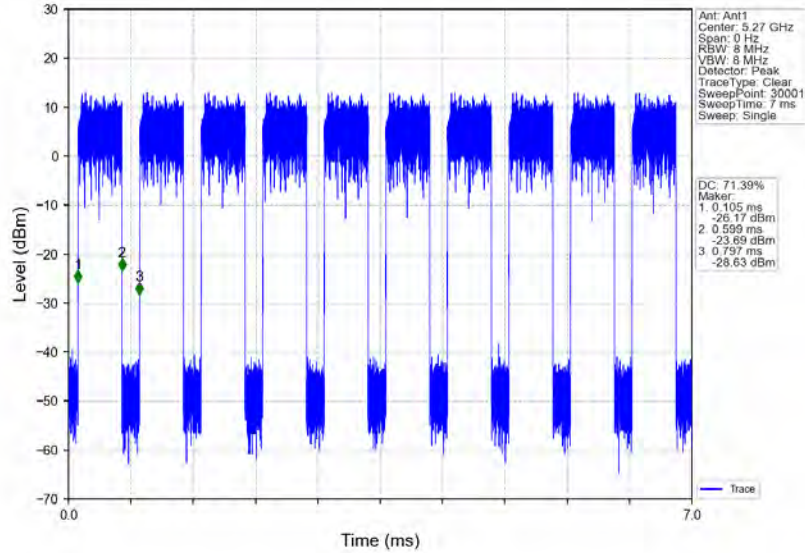
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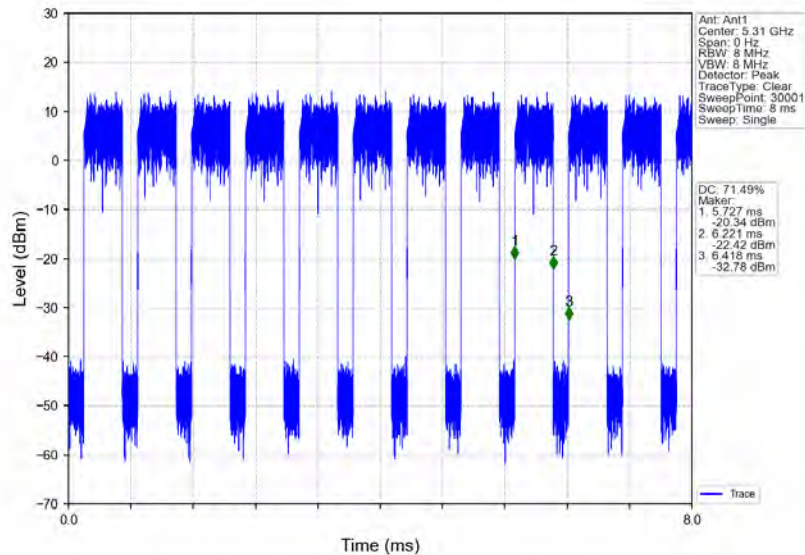
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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



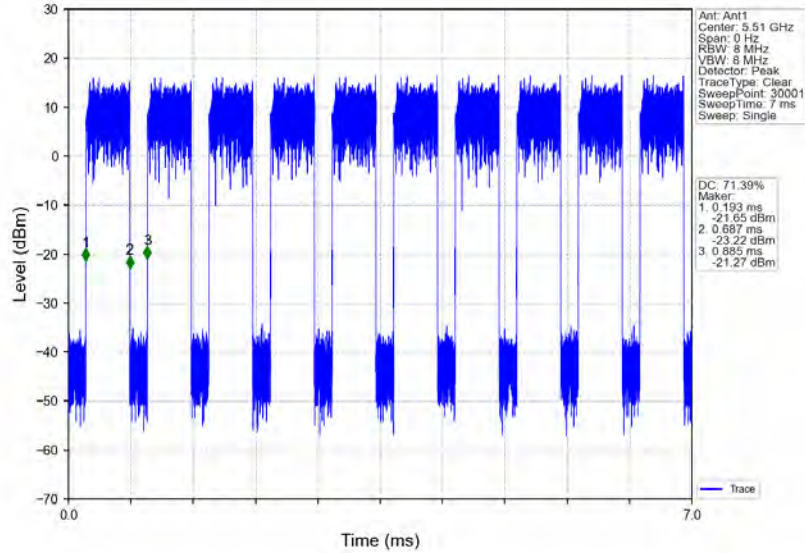
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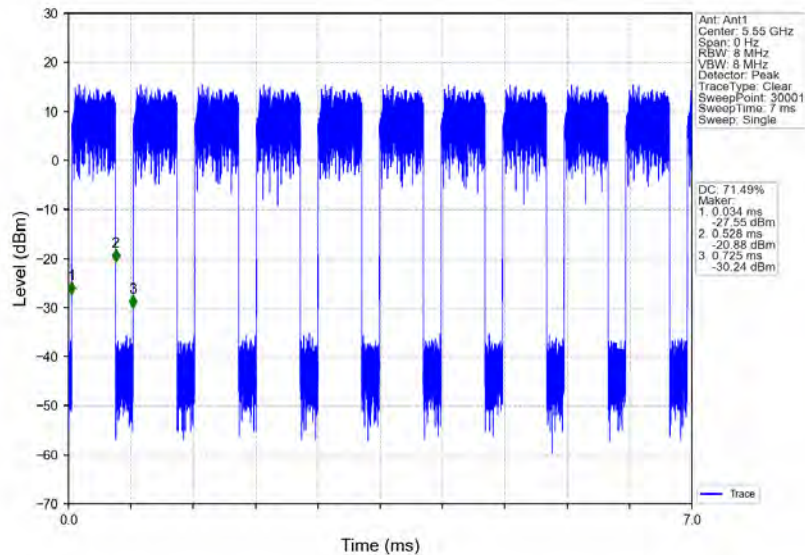
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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



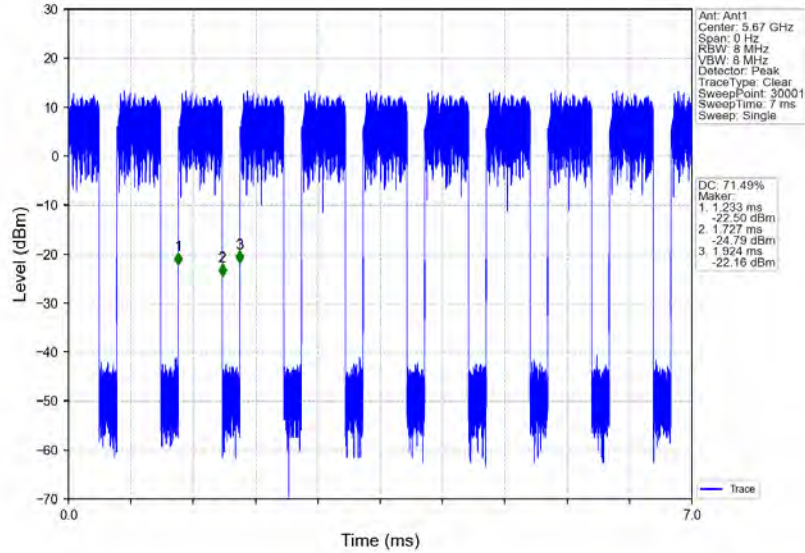
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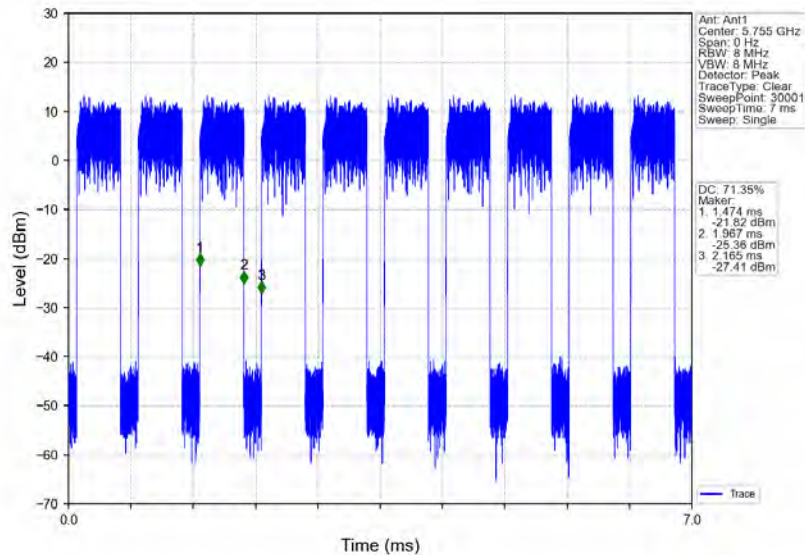
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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



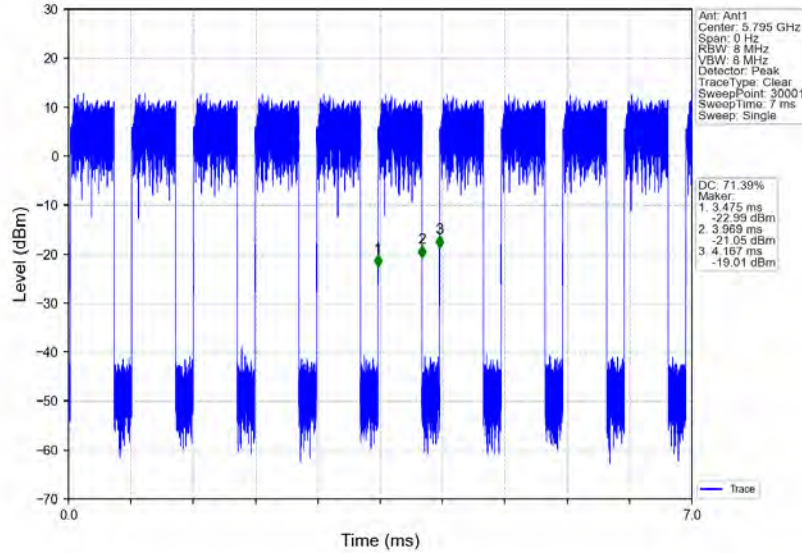
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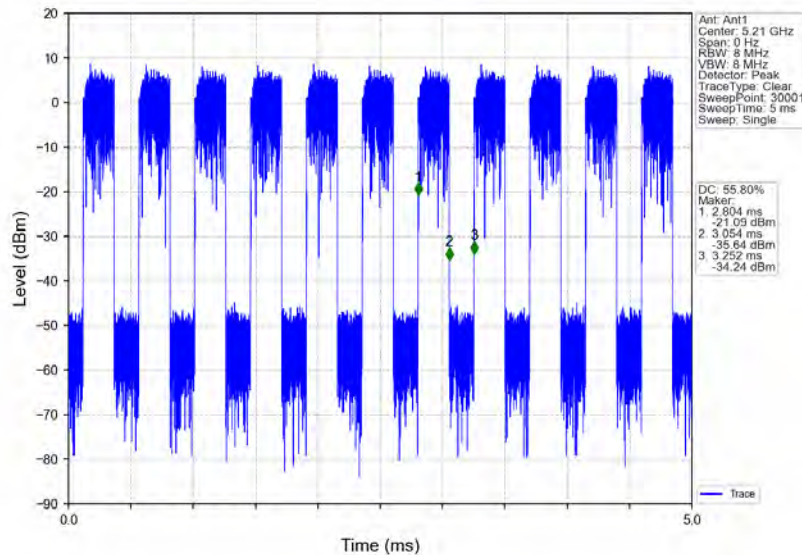
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

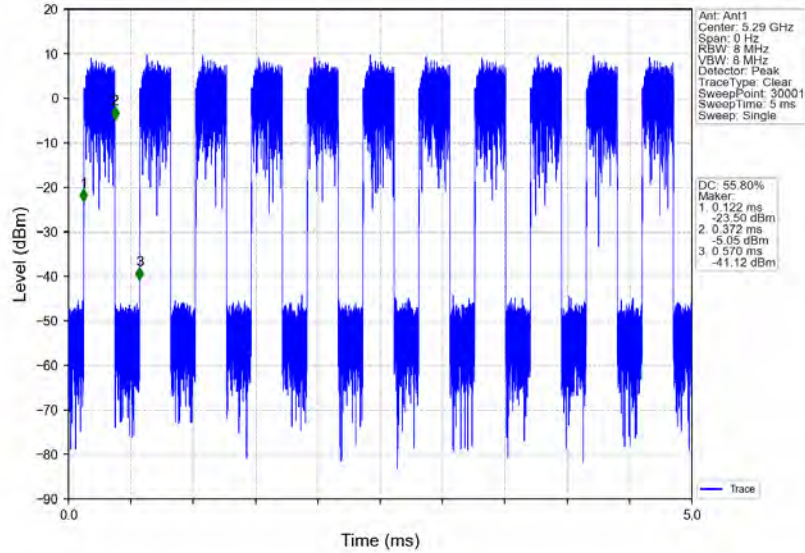


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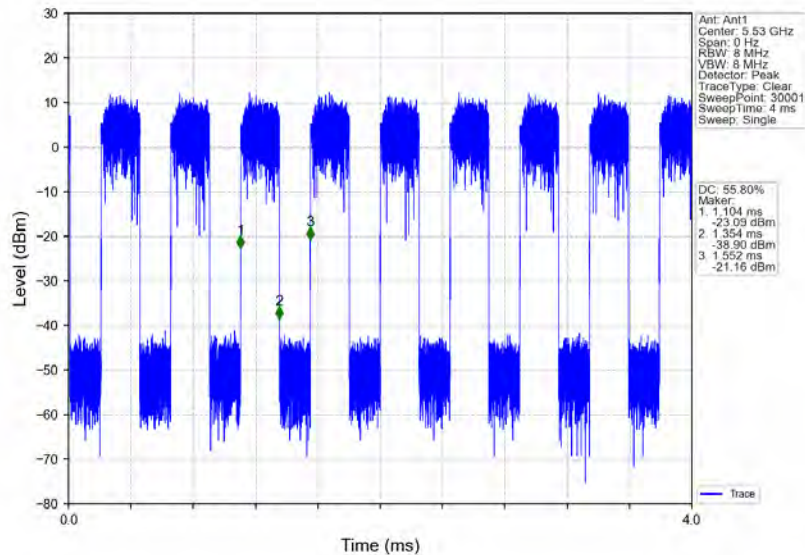
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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



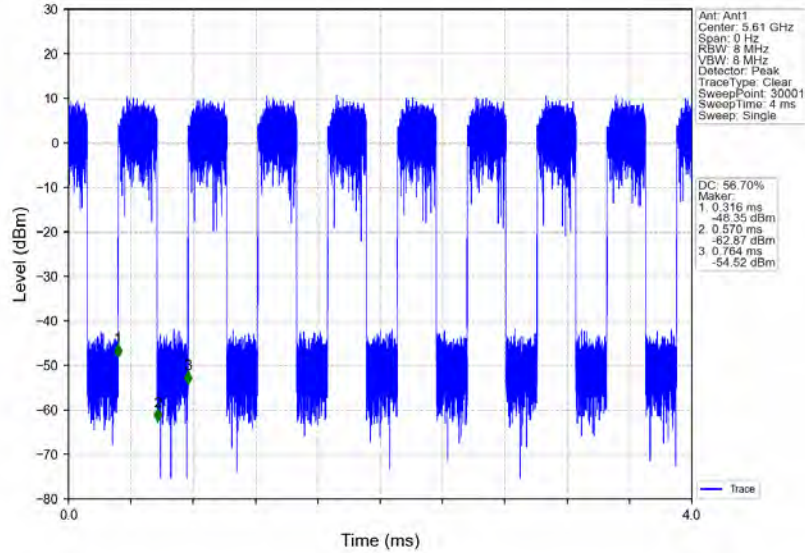
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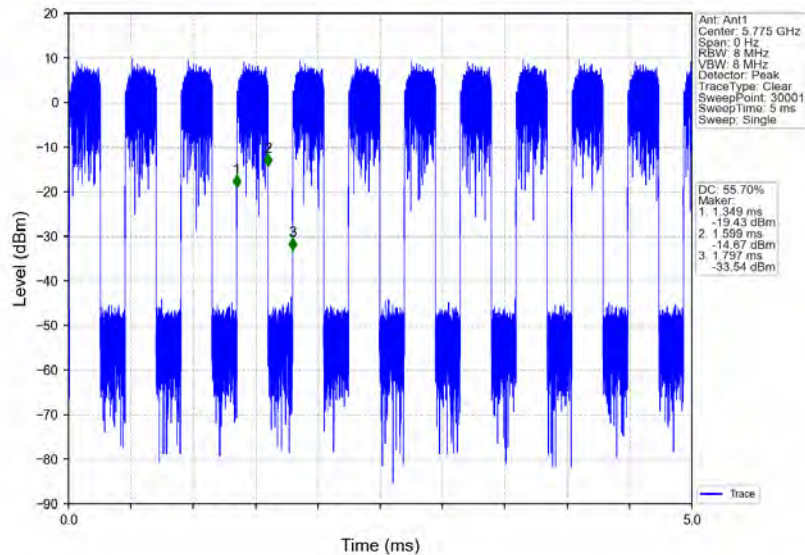
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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11ac (VHT20)	SISO	5180	1	19.097	Pass
		5200	1	19.124	Pass
		5240	1	19.153	Pass
		5260	1	19.236	Pass
		5300	1	19.516	Pass
		5320	1	19.665	Pass
		5500	1	18.867	Pass
		5580	1	18.843	Pass
		5700	1	18.913	Pass
		5745	1	18.925	Pass
		5785	1	19.081	Pass
802.11ac (VHT40)	SISO	5825	1	19.449	Pass
		5190	1	38.155	Pass
		5230	1	38.077	Pass
		5270	1	39.405	Pass
		5310	1	39.656	Pass
		5510	1	38.053	Pass
		5550	1	37.720	Pass
		5670	1	37.558	Pass
		5755	1	39.390	Pass
5795	1	39.889	Pass		
802.11ac (VHT80)	SISO	5210	1	76.002	Pass
		5290	1	76.475	Pass
		5530	1	76.218	Pass
		5610	1	76.484	Pass
		5775	1	78.711	Pass



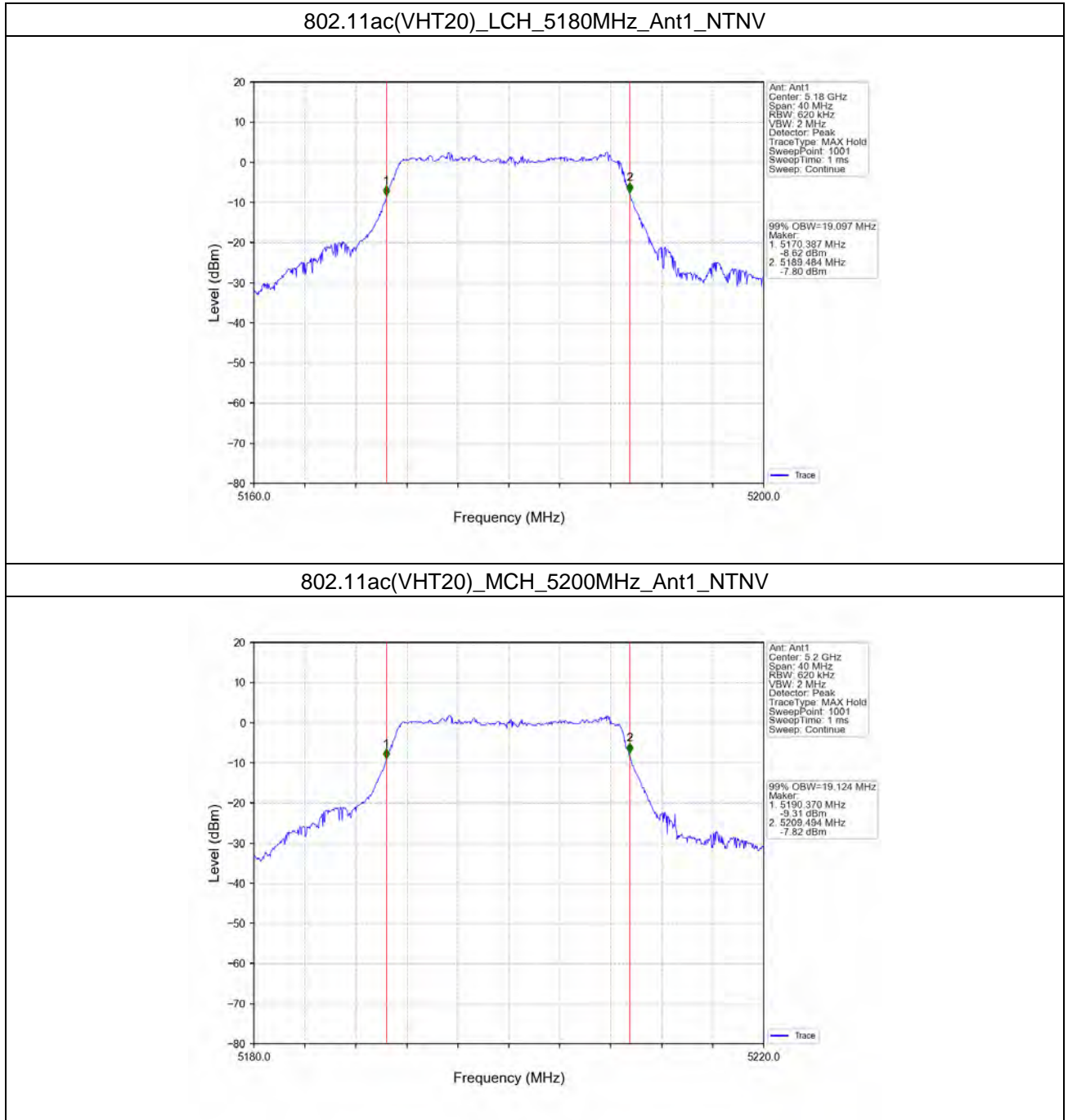
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2.1.2 Test Graph



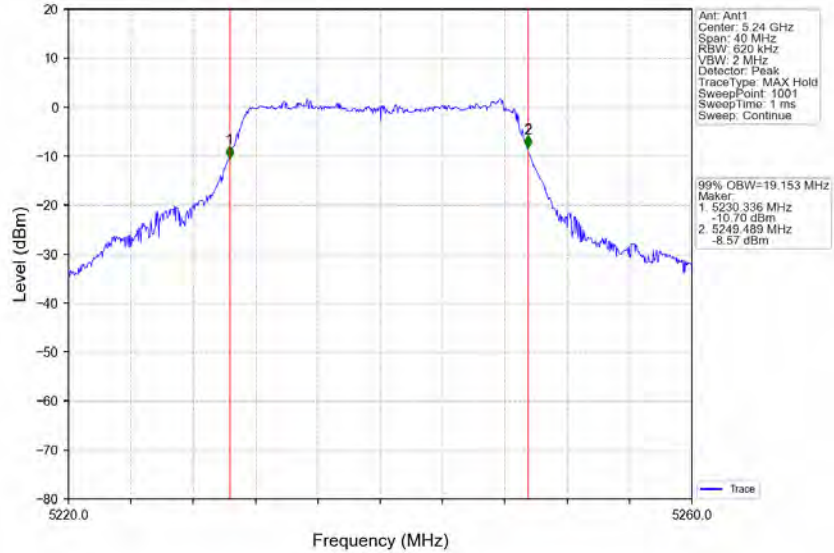
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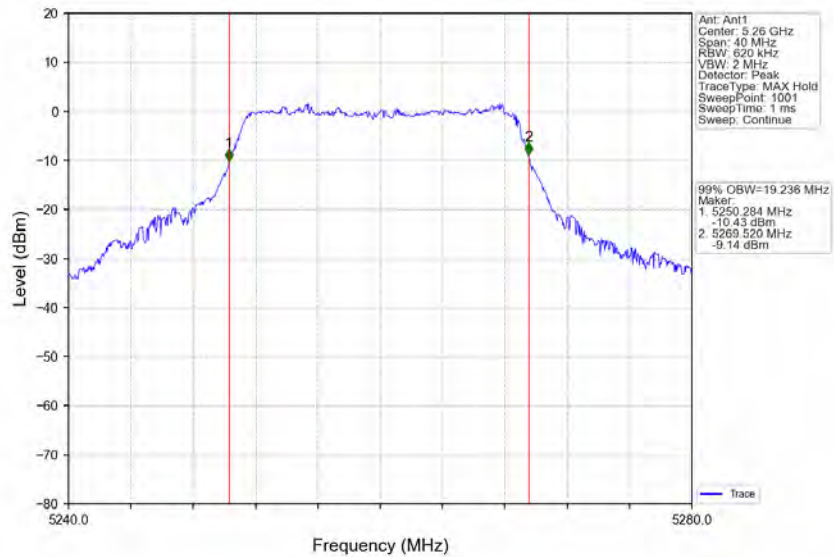
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



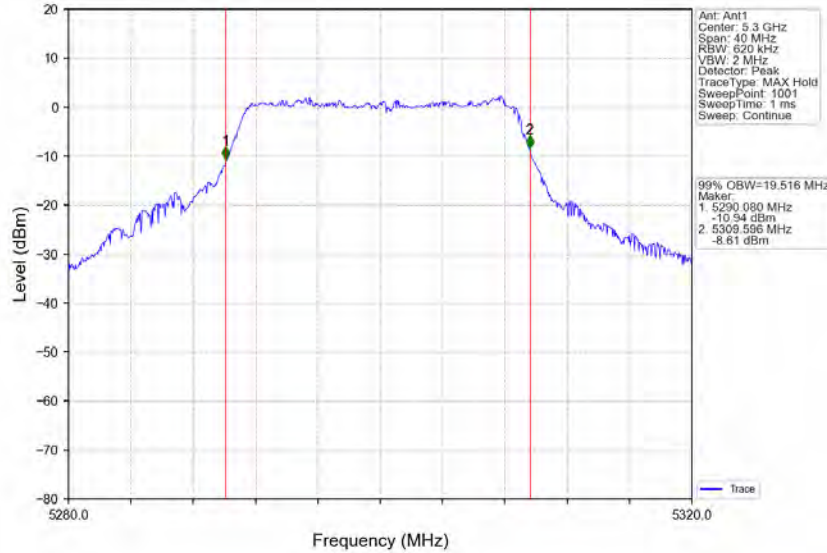
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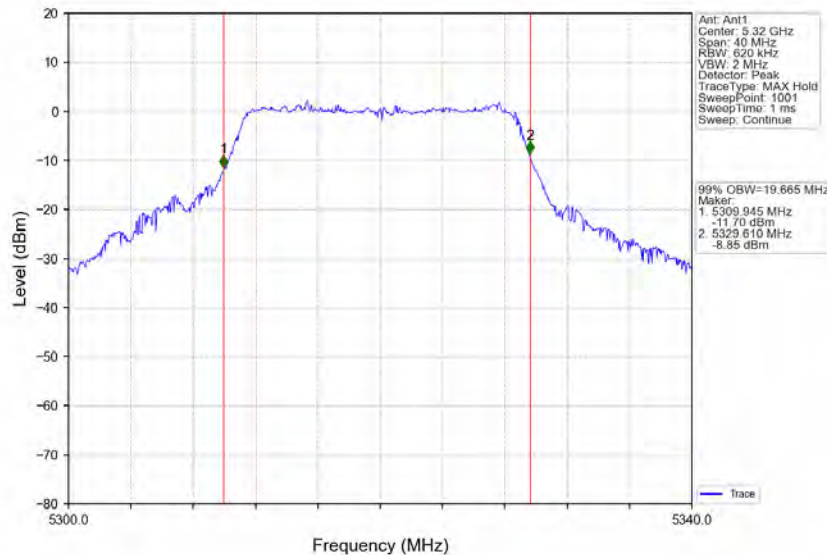
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



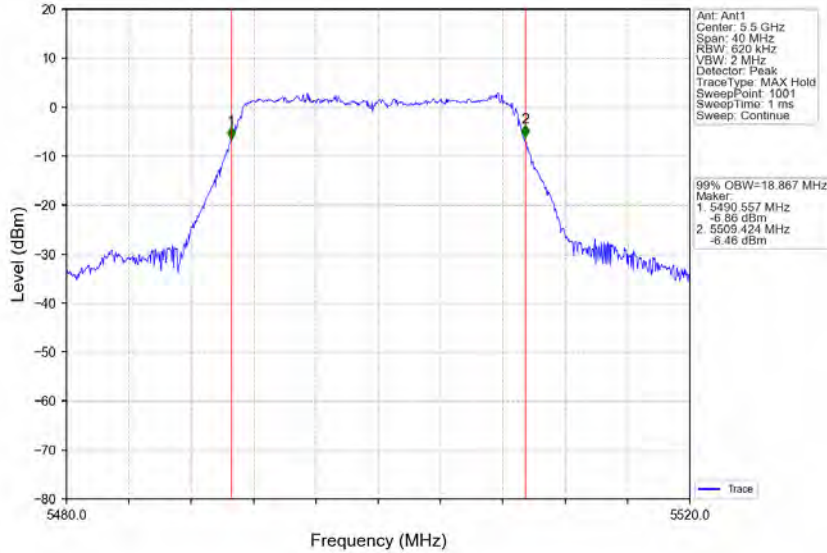
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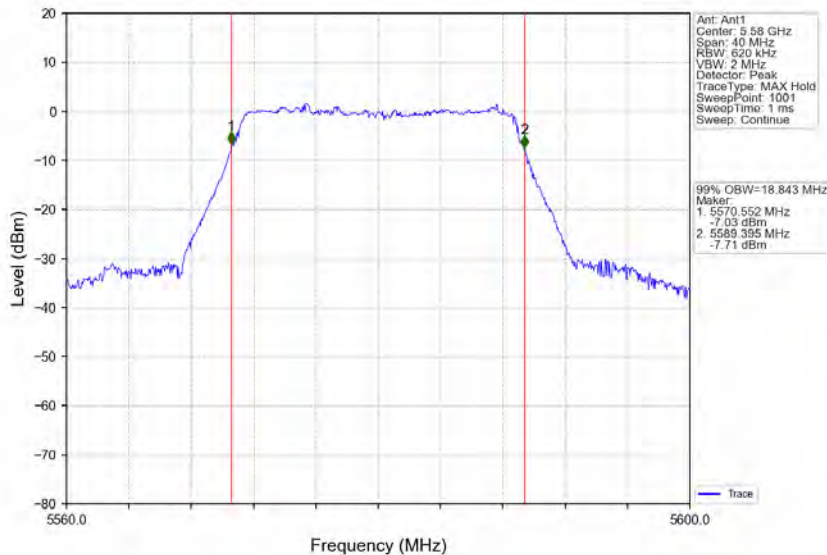
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



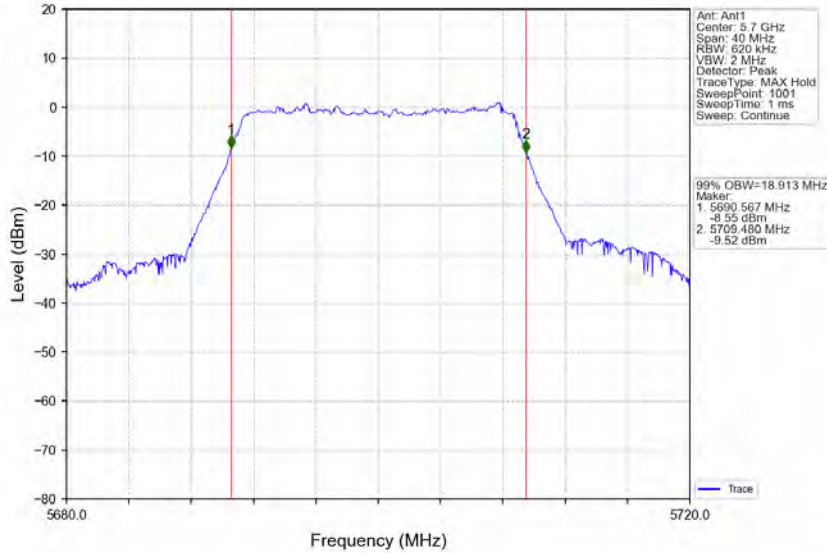
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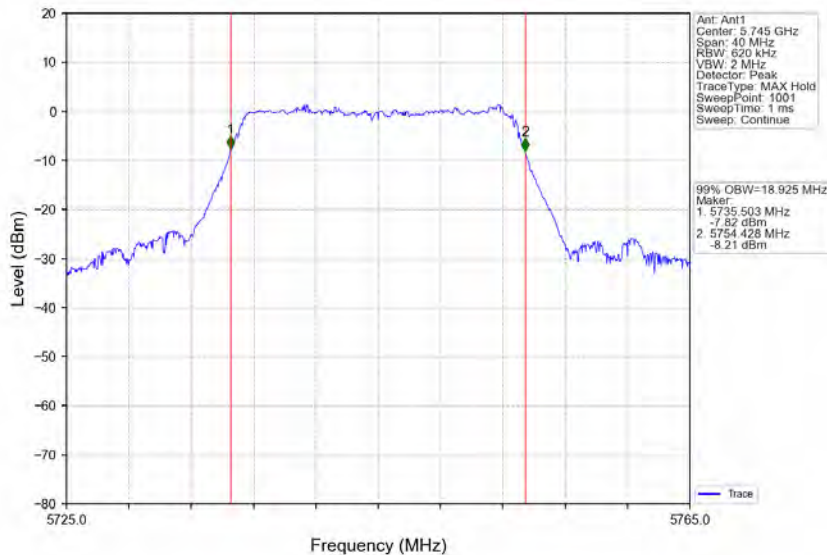
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



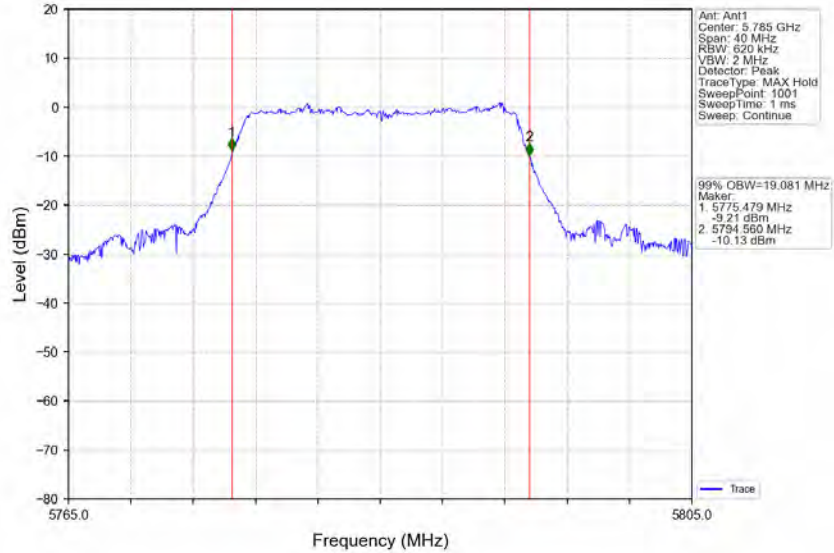
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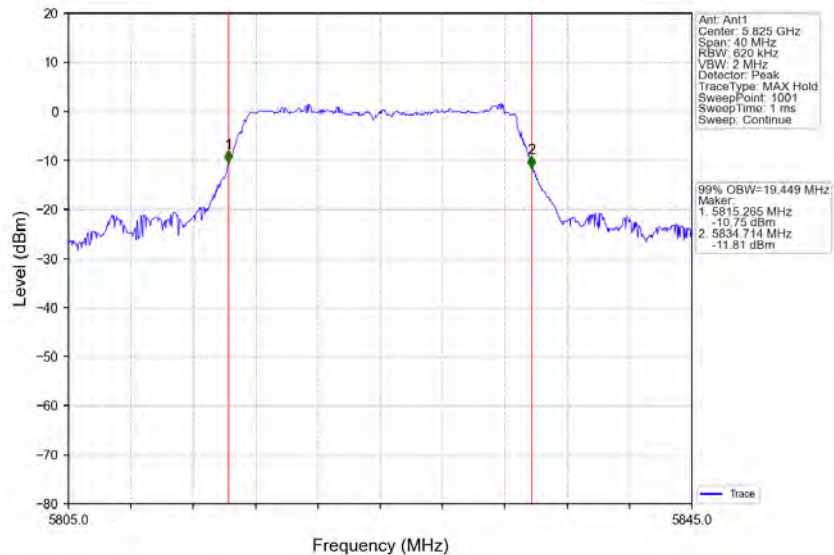
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



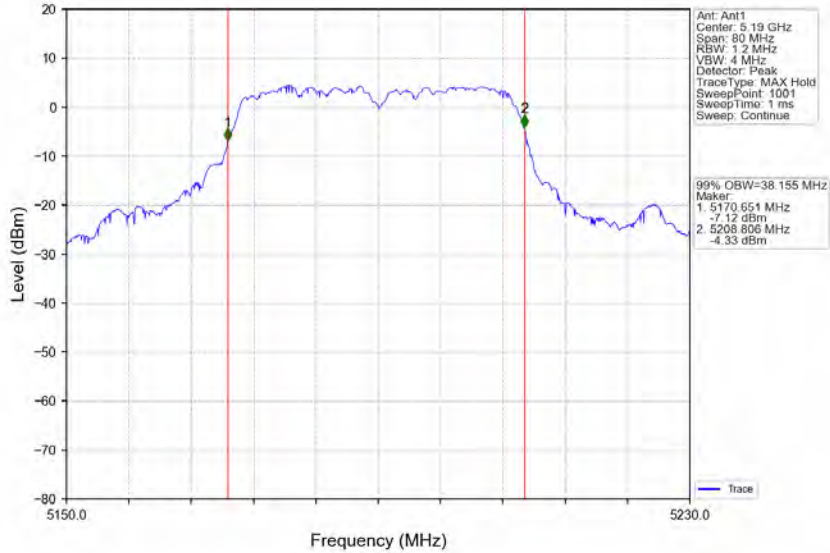
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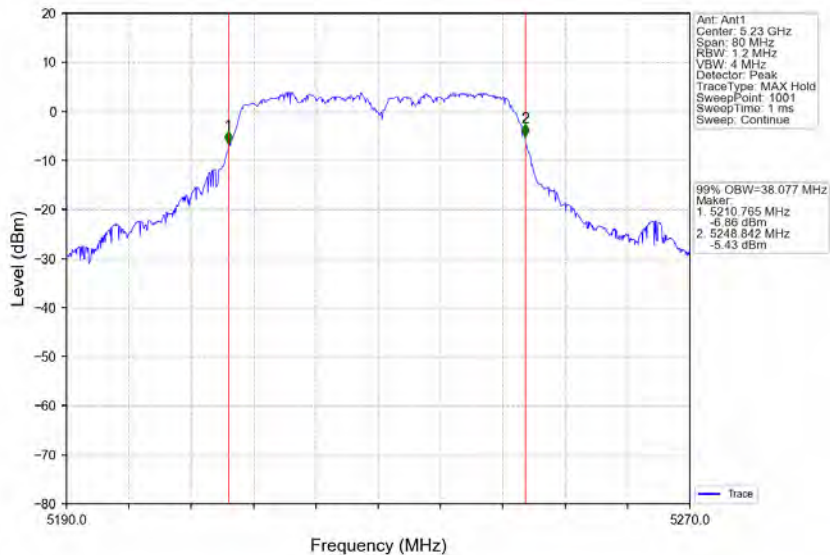
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



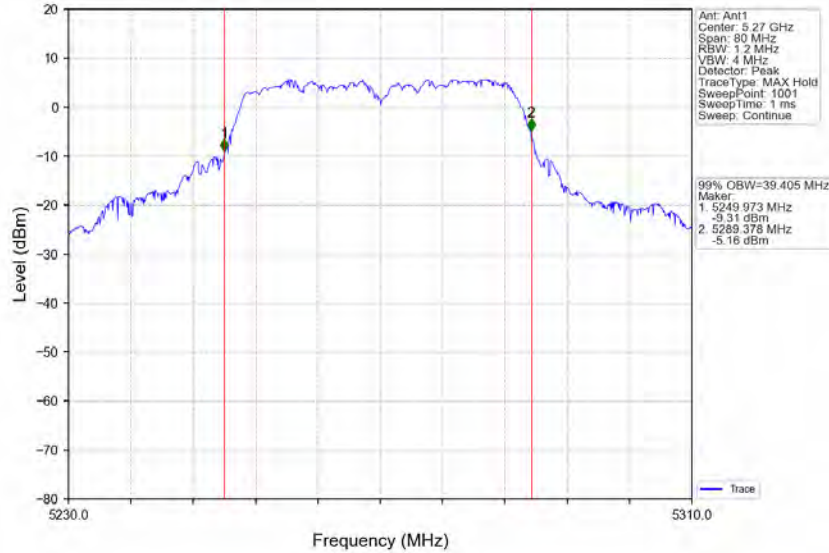
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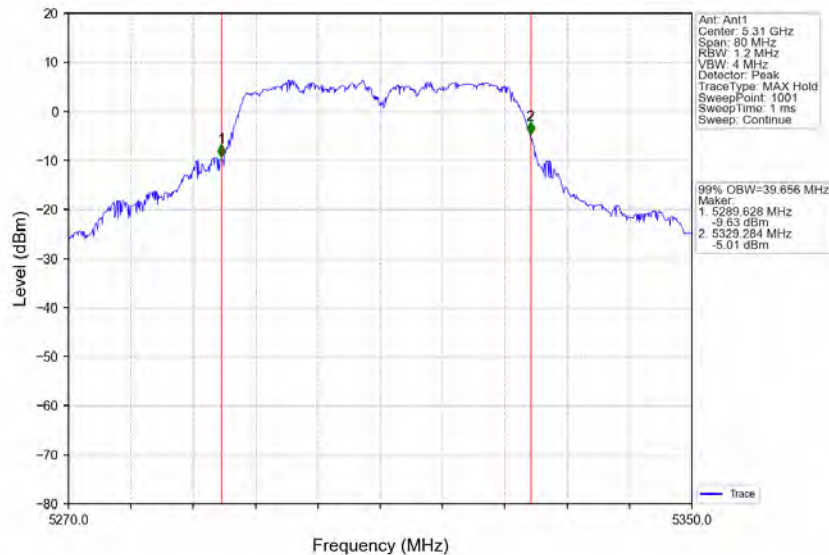
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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



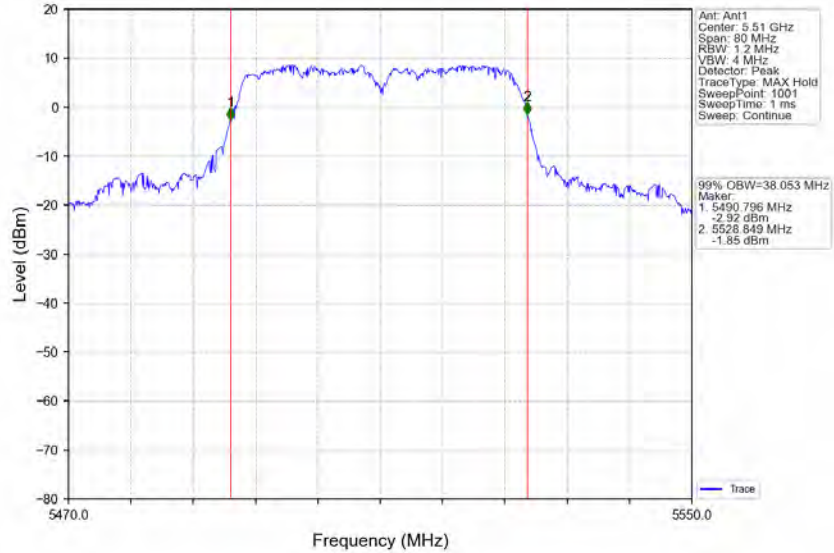
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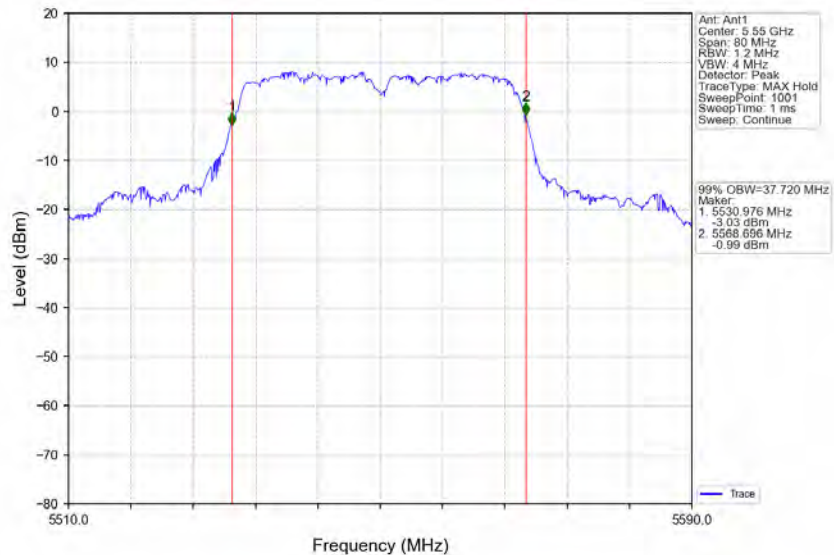
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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



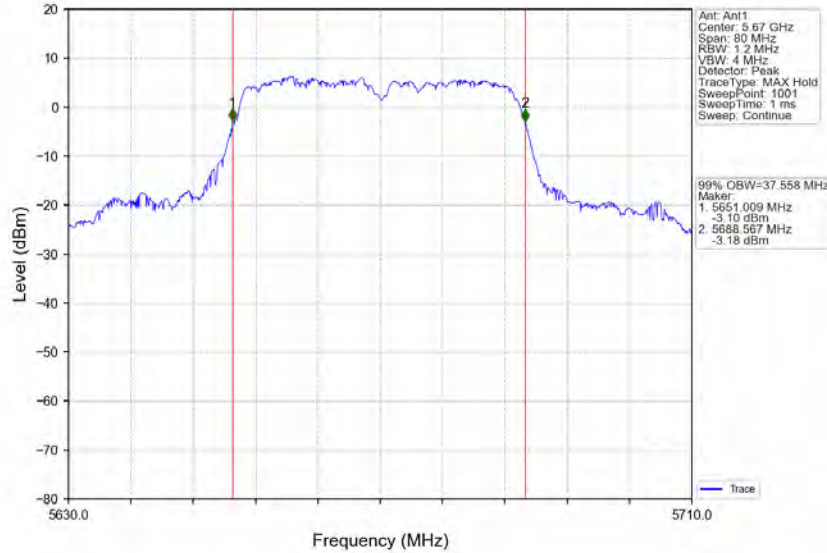
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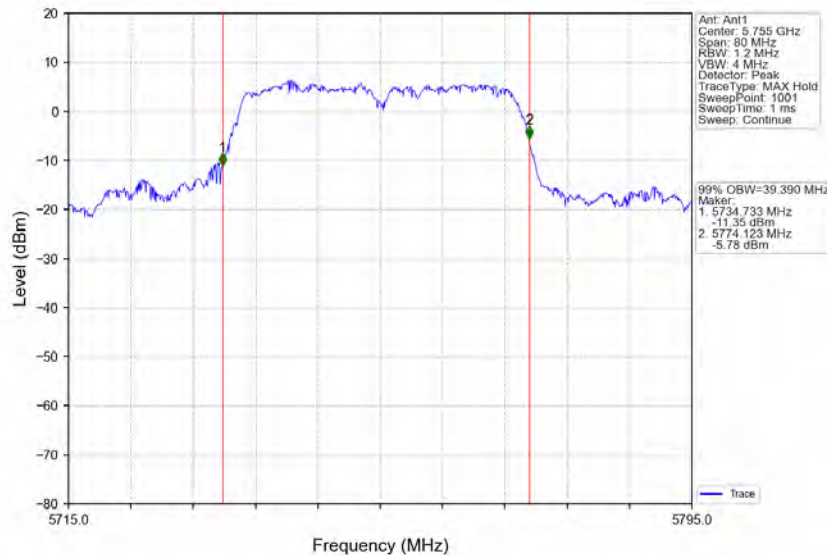
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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

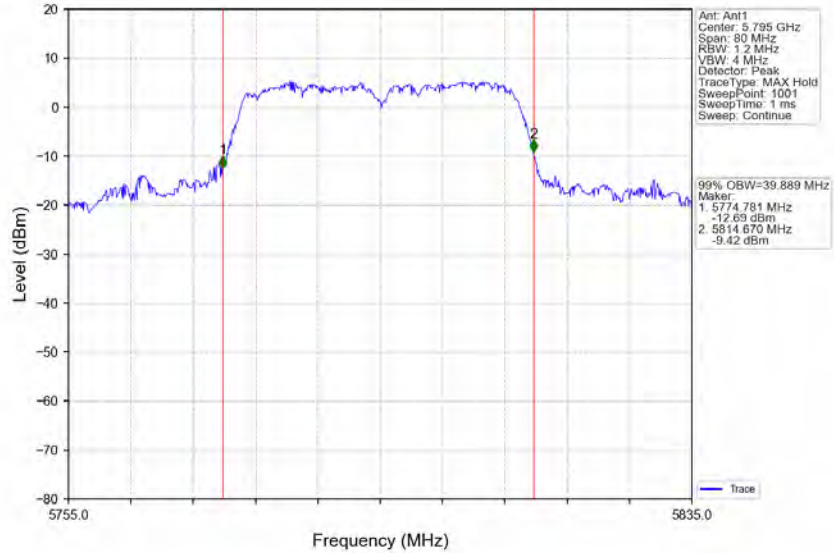


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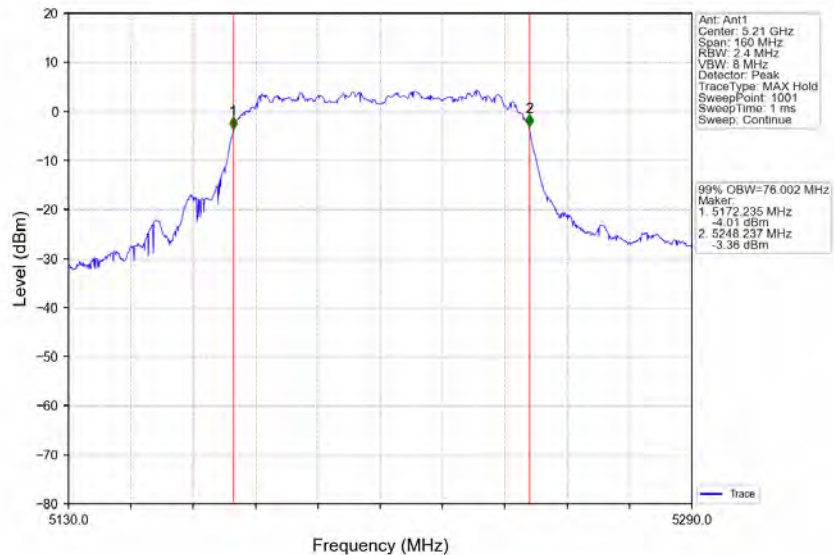
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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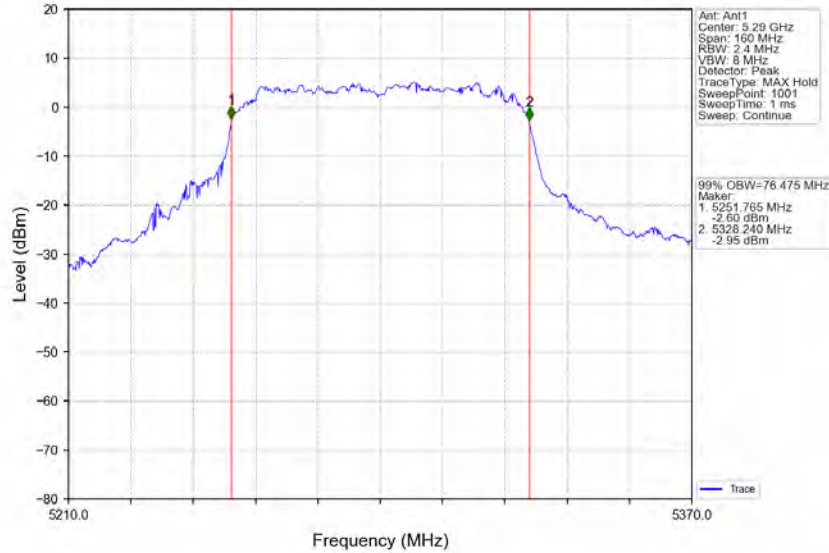
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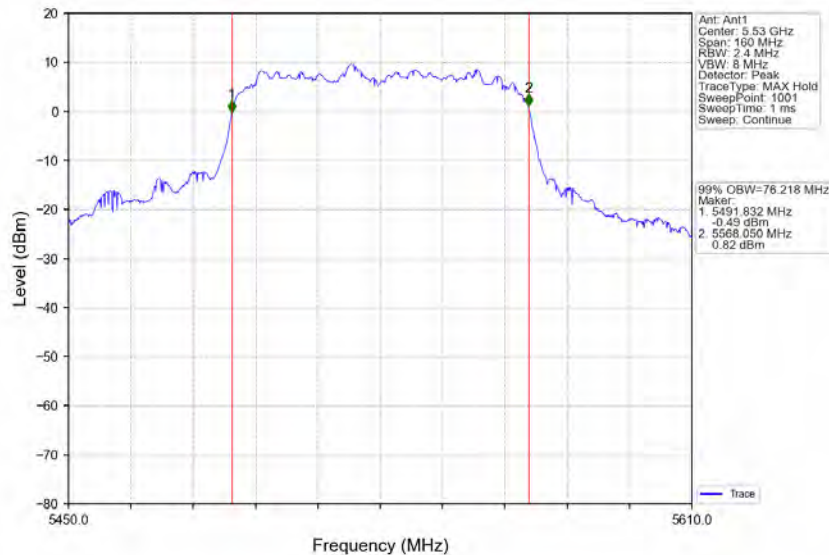
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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



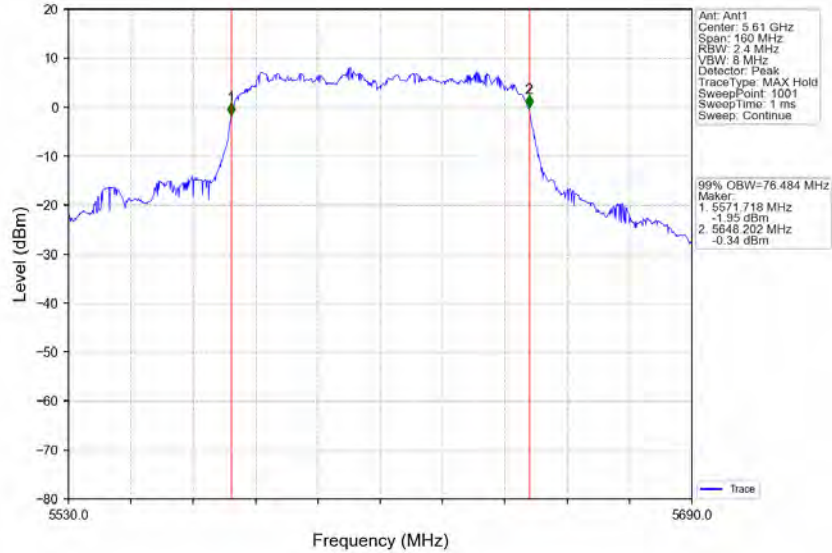
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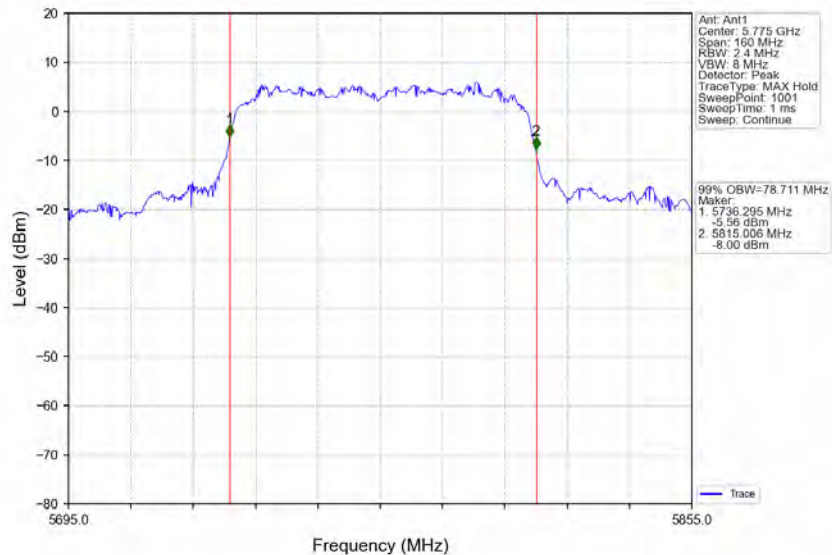
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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2.2 6dB BW

2.2.1 Test Result

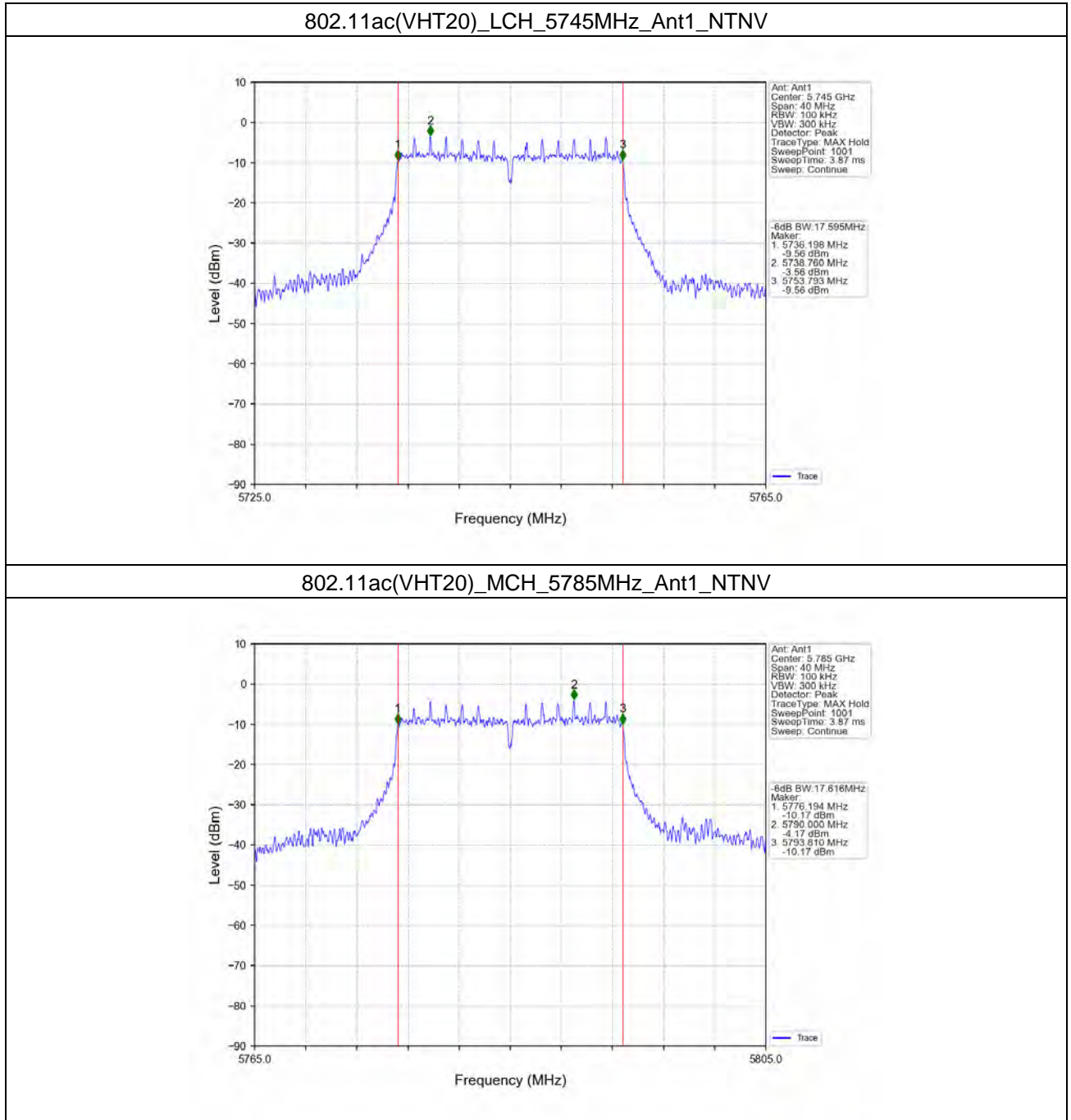
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT20)	SISO	5745	1	17.595	>=0.5	Pass
		5785	1	17.616	>=0.5	Pass
		5825	1	17.618	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.194	>=0.5	Pass
		5795	1	35.185	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.151	>=0.5	Pass



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2.2.2 Test Graph



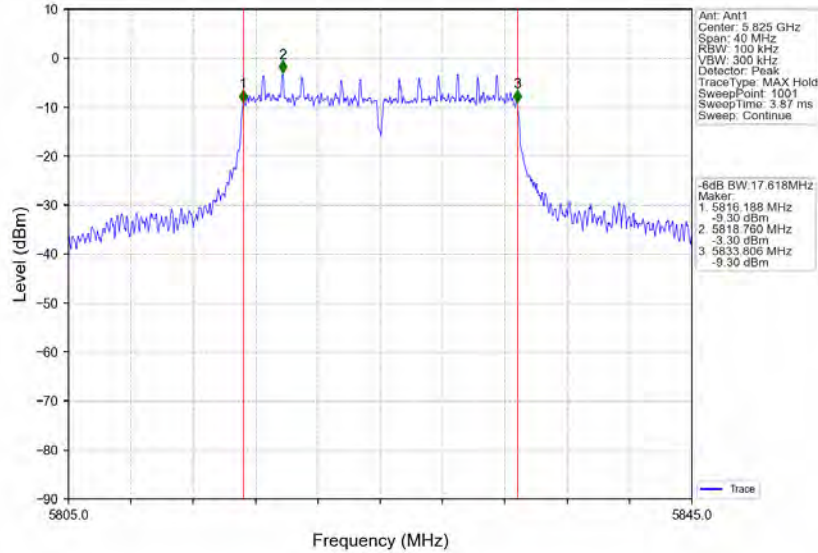
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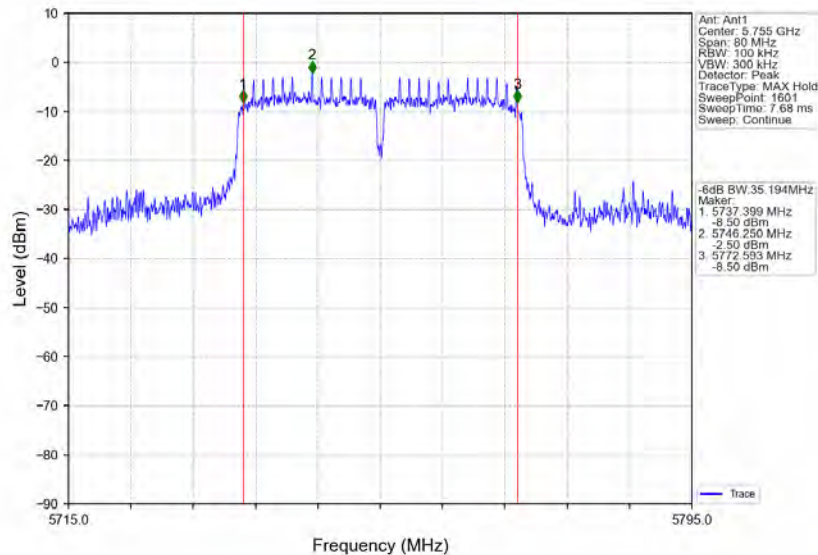
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



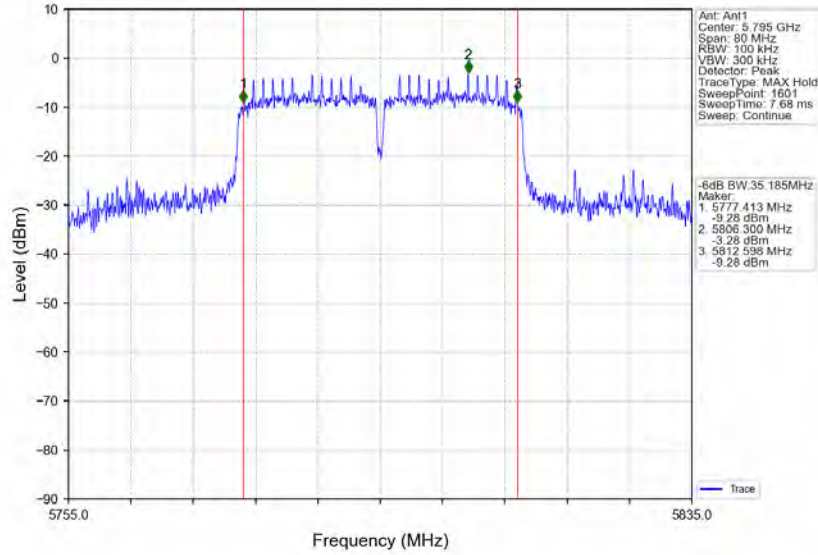
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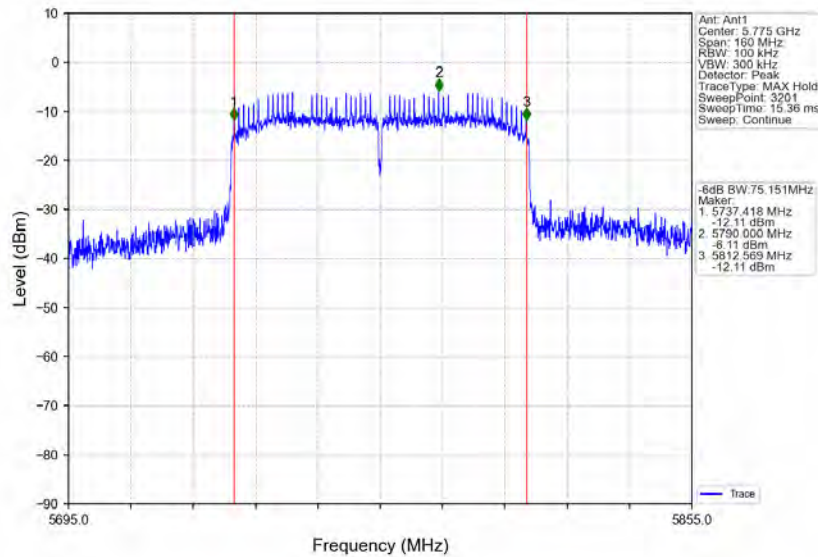
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

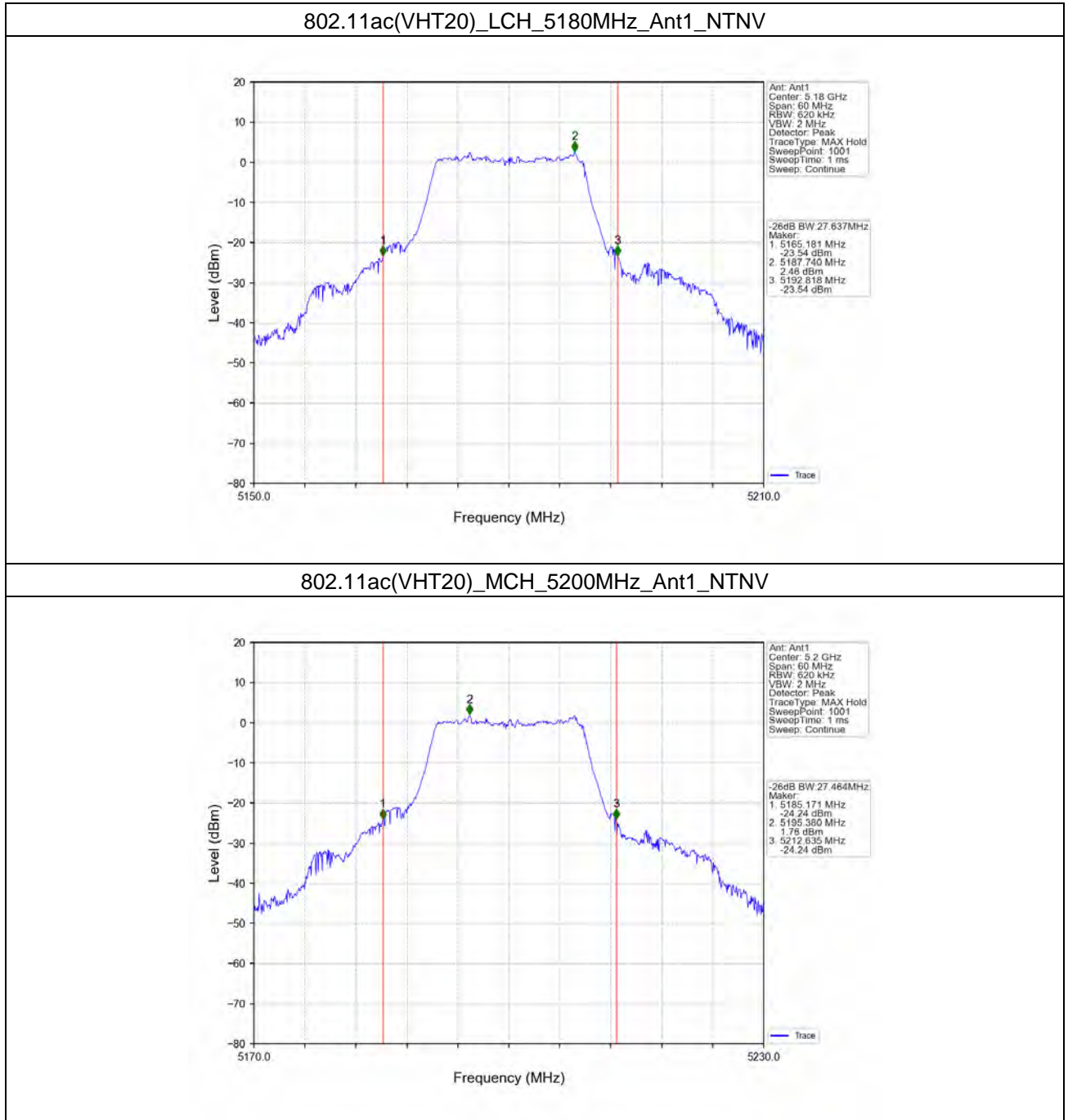
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11ac (VHT20)	SISO	5180	1	27.637	Pass
		5200	1	27.464	Pass
		5240	1	28.382	Pass
		5260	1	28.516	Pass
		5300	1	29.349	Pass
		5320	1	30.260	Pass
		5500	1	23.346	Pass
		5580	1	23.335	Pass
802.11ac (VHT40)	SISO	5700	1	23.421	Pass
		5190	1	70.594	Pass
		5230	1	53.747	Pass
		5270	1	71.247	Pass
		5310	1	65.500	Pass
		5510	1	72.978	Pass
		5550	1	71.533	Pass
802.11ac (VHT80)	SISO	5670	1	70.947	Pass
		5210	1	99.423	Pass
		5290	1	109.841	Pass
		5530	1	120.162	Pass
		5610	1	122.768	Pass



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2.3.2 Test Graph



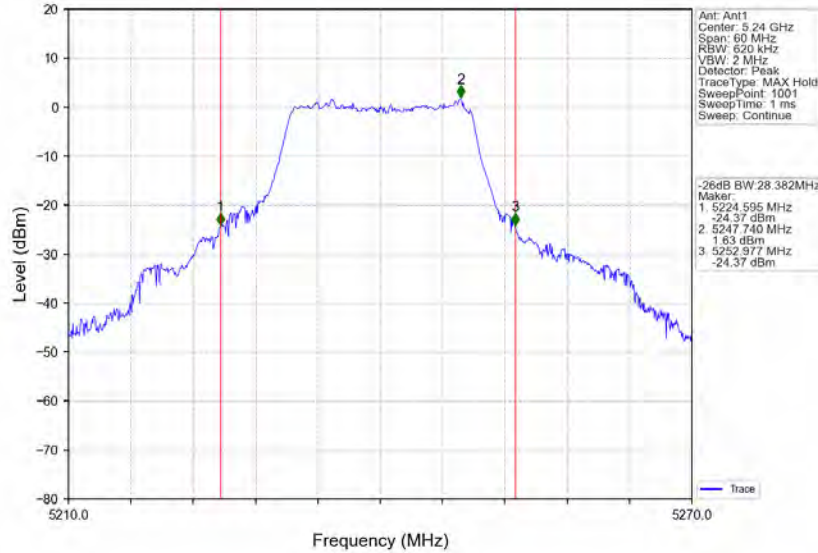
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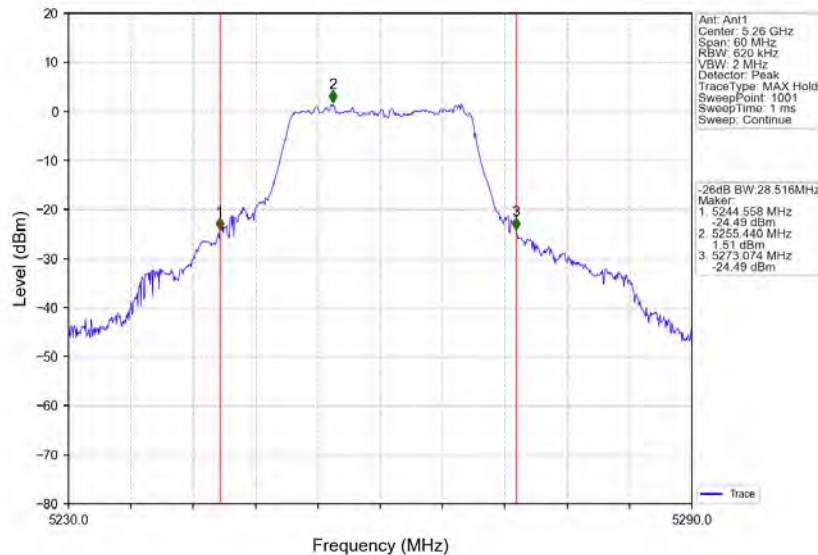
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



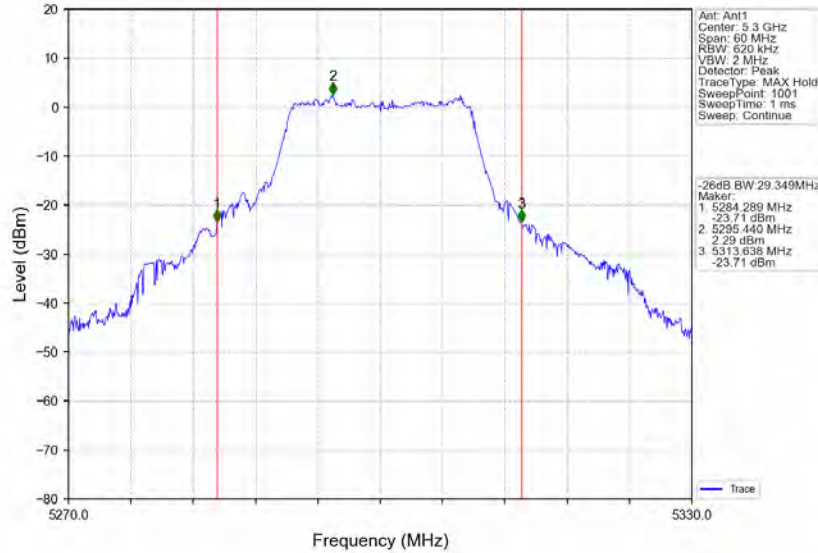
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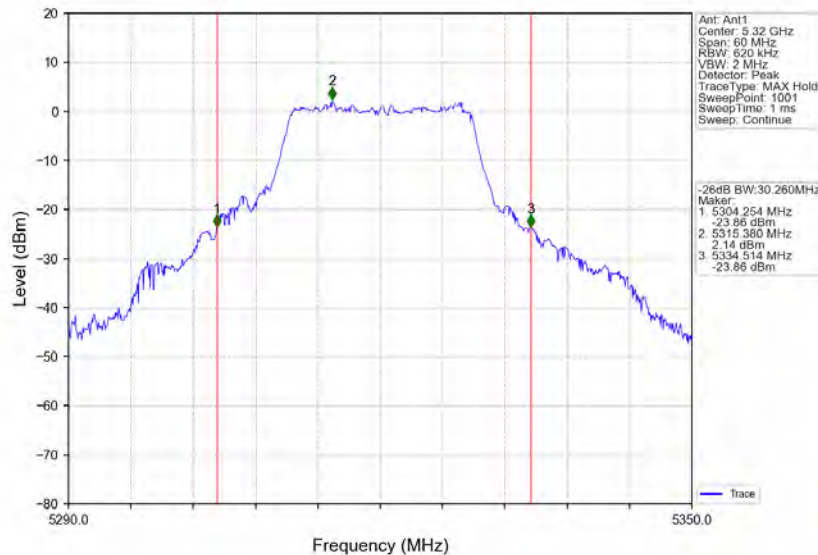
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



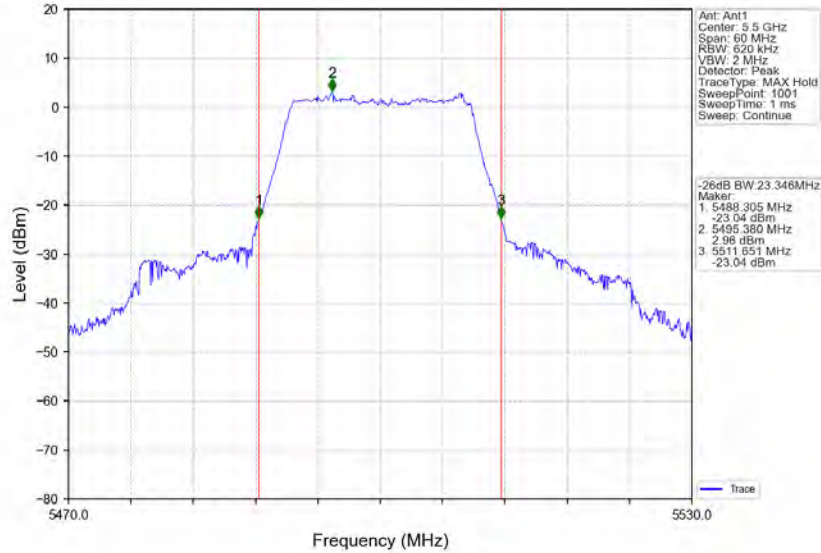
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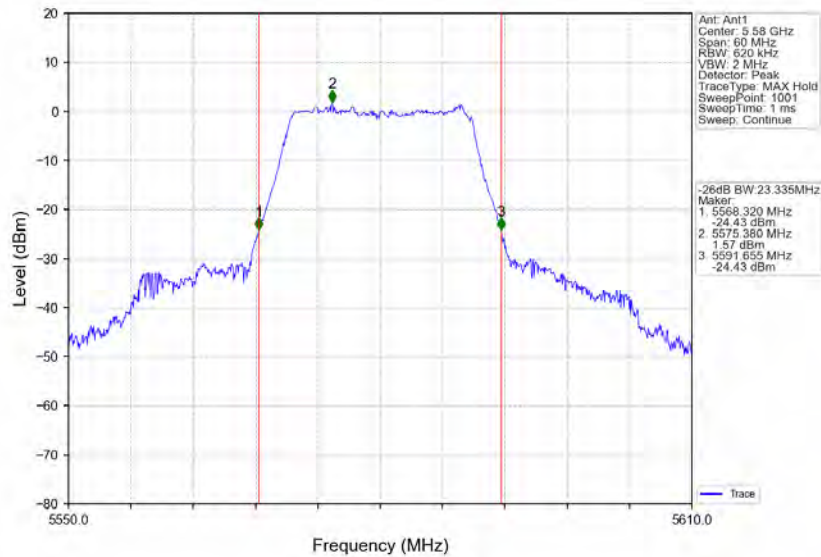
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

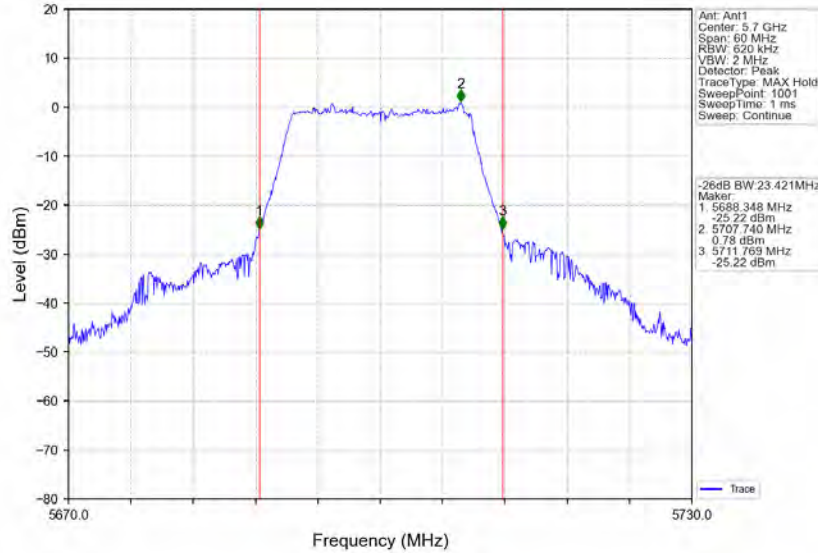


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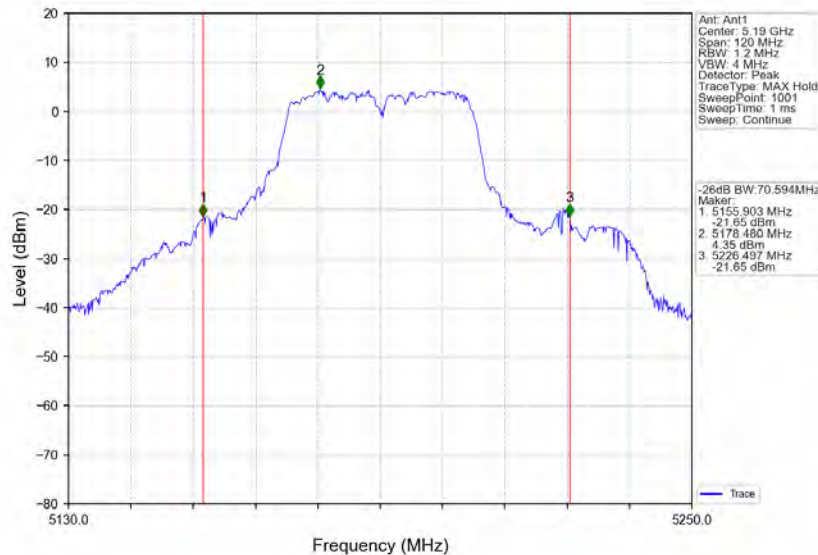
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



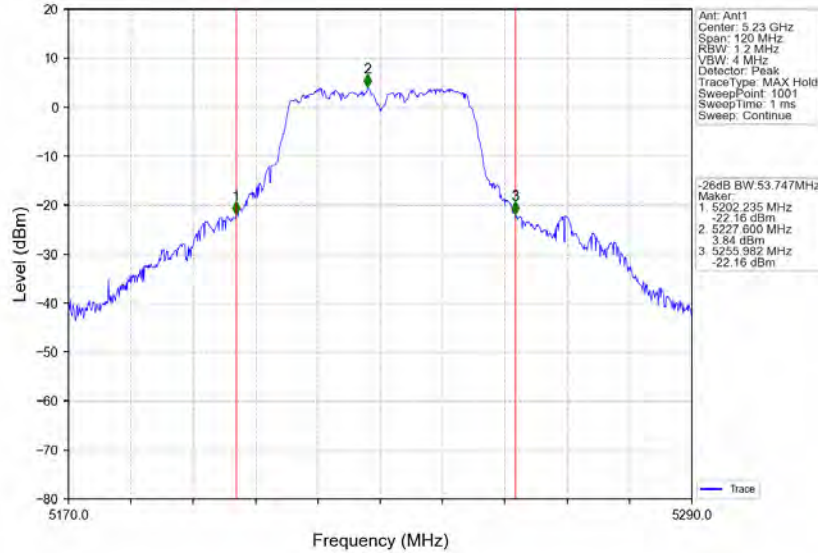
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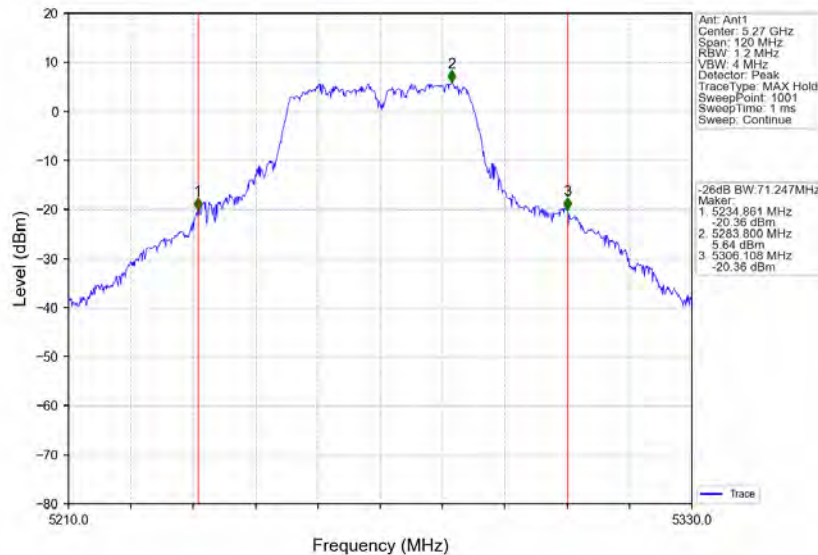
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



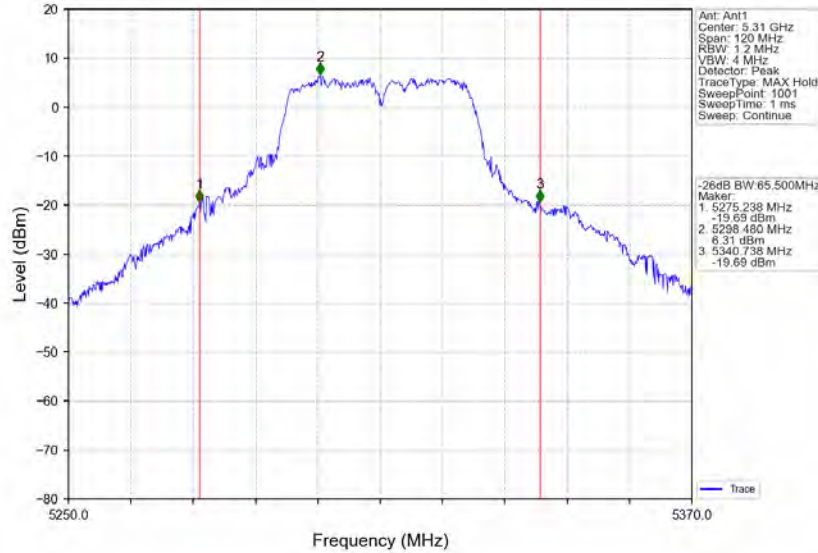
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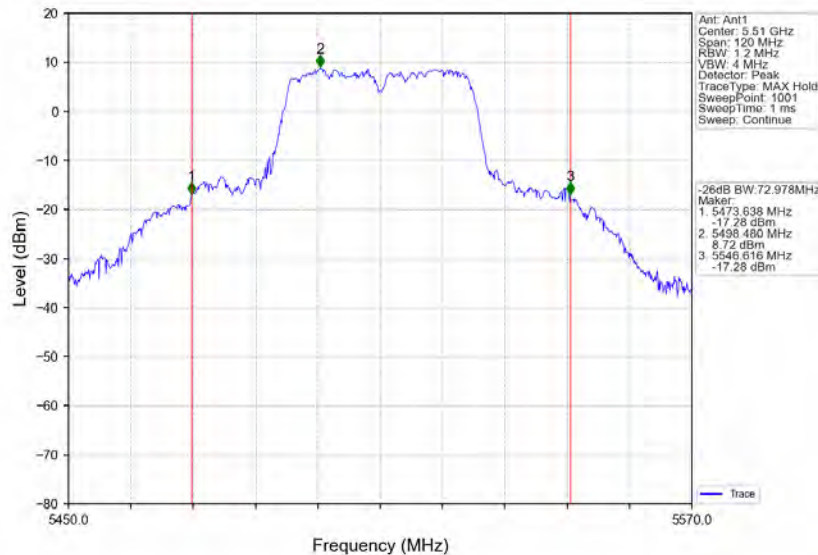
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



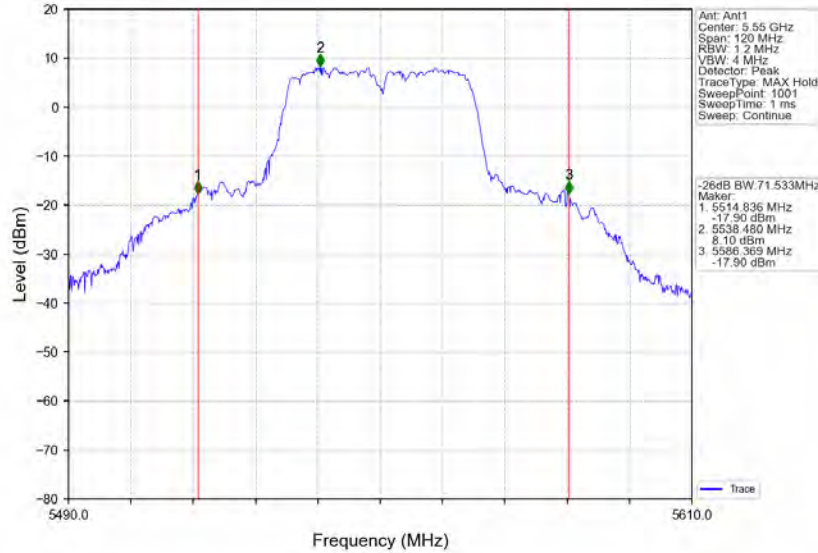
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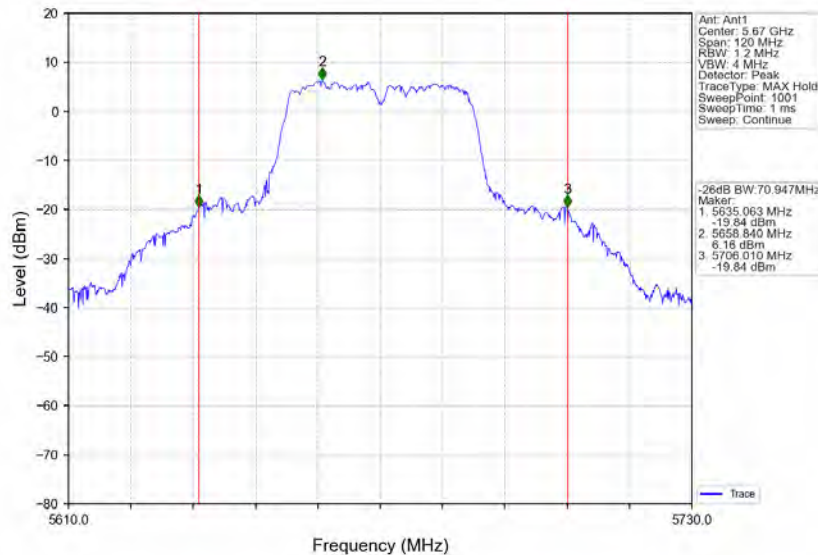
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV

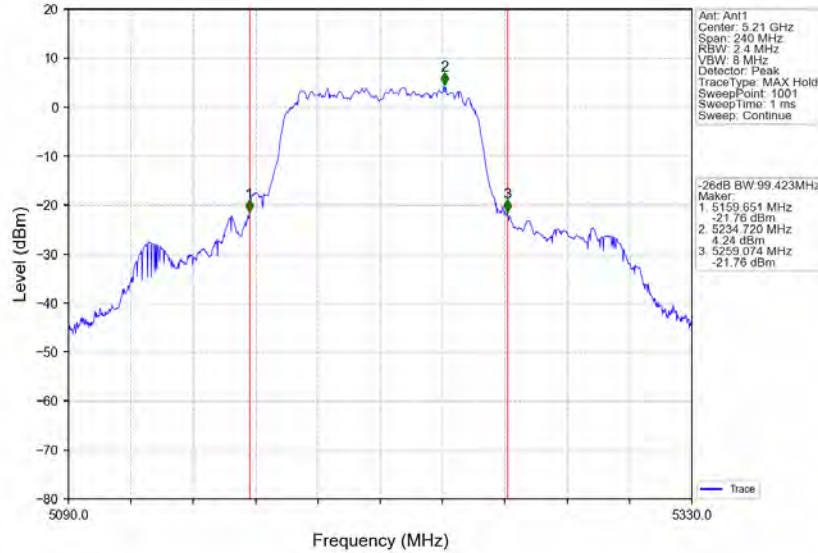


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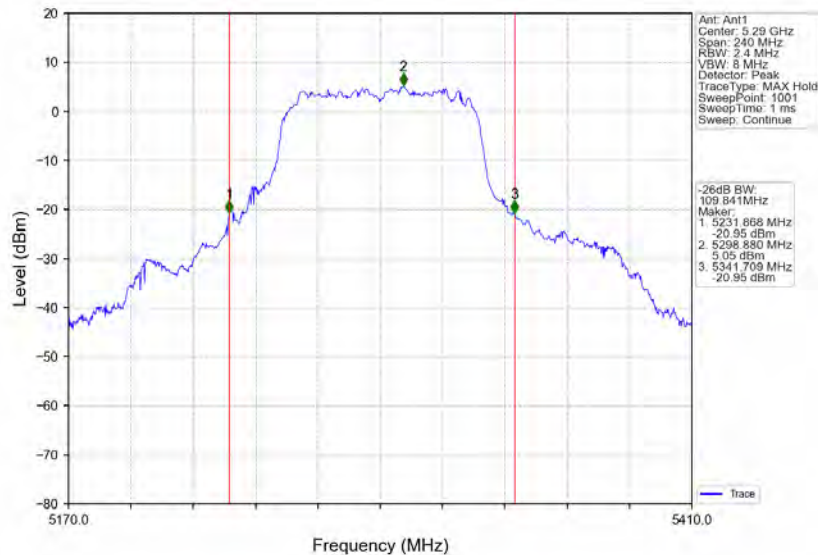
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



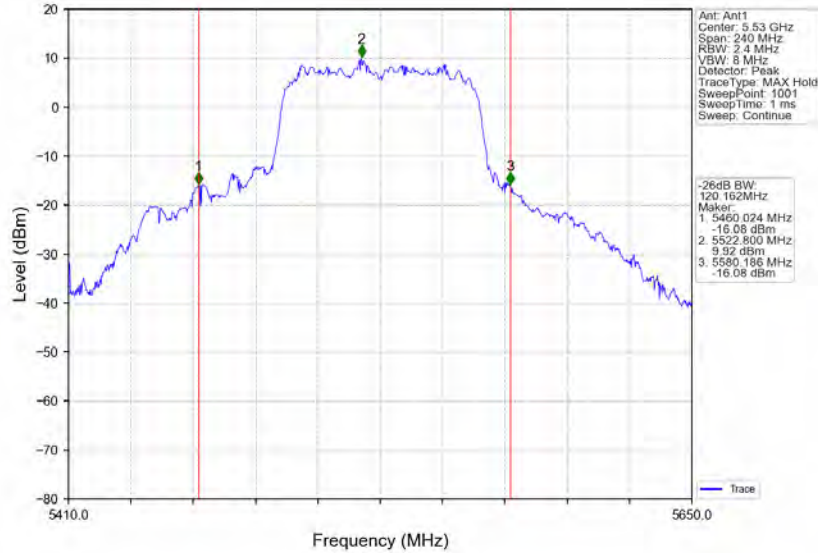
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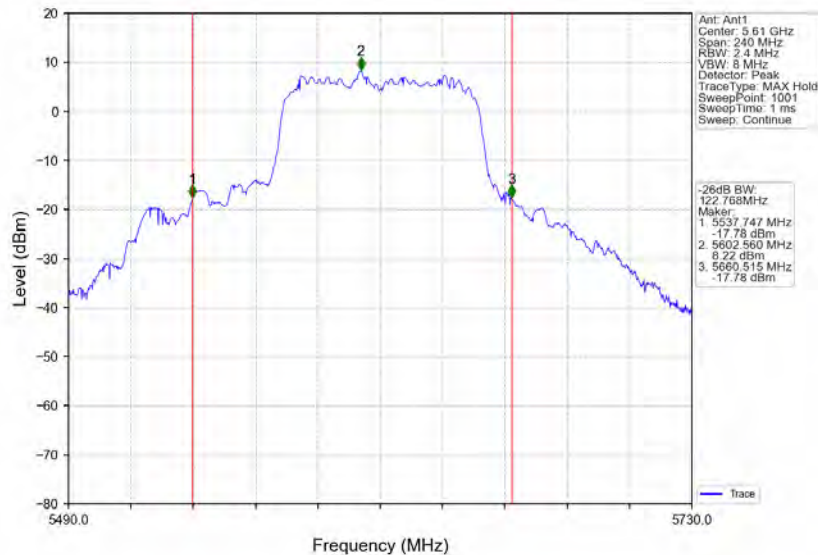
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5180	13.46	<=23.98	Pass
		5200	13.20	<=23.98	Pass
		5240	12.86	<=23.98	Pass
		5260	12.51	<=23.98	Pass
		5300	13.23	<=23.98	Pass
		5320	13.26	<=23.98	Pass
		5500	13.10	<=23.98	Pass
		5580	13.62	<=23.98	Pass
		5700	13.13	<=23.98	Pass
		5745	13.09	<=30	Pass
		5785	12.47	<=30	Pass
802.11ac (VHT40)	SISO	5190	13.19	<=23.98	Pass
		5230	12.98	<=23.98	Pass
		5270	12.69	<=23.98	Pass
		5310	12.64	<=23.98	Pass
		5510	12.22	<=23.98	Pass
		5550	12.99	<=23.98	Pass
		5670	12.88	<=23.98	Pass
		5755	12.94	<=30	Pass
802.11ac (VHT80)	SISO	5210	12.77	<=23.98	Pass
		5290	13.21	<=23.98	Pass
		5530	12.10	<=23.98	Pass
		5610	12.04	<=23.98	Pass
		5775	10.39	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;



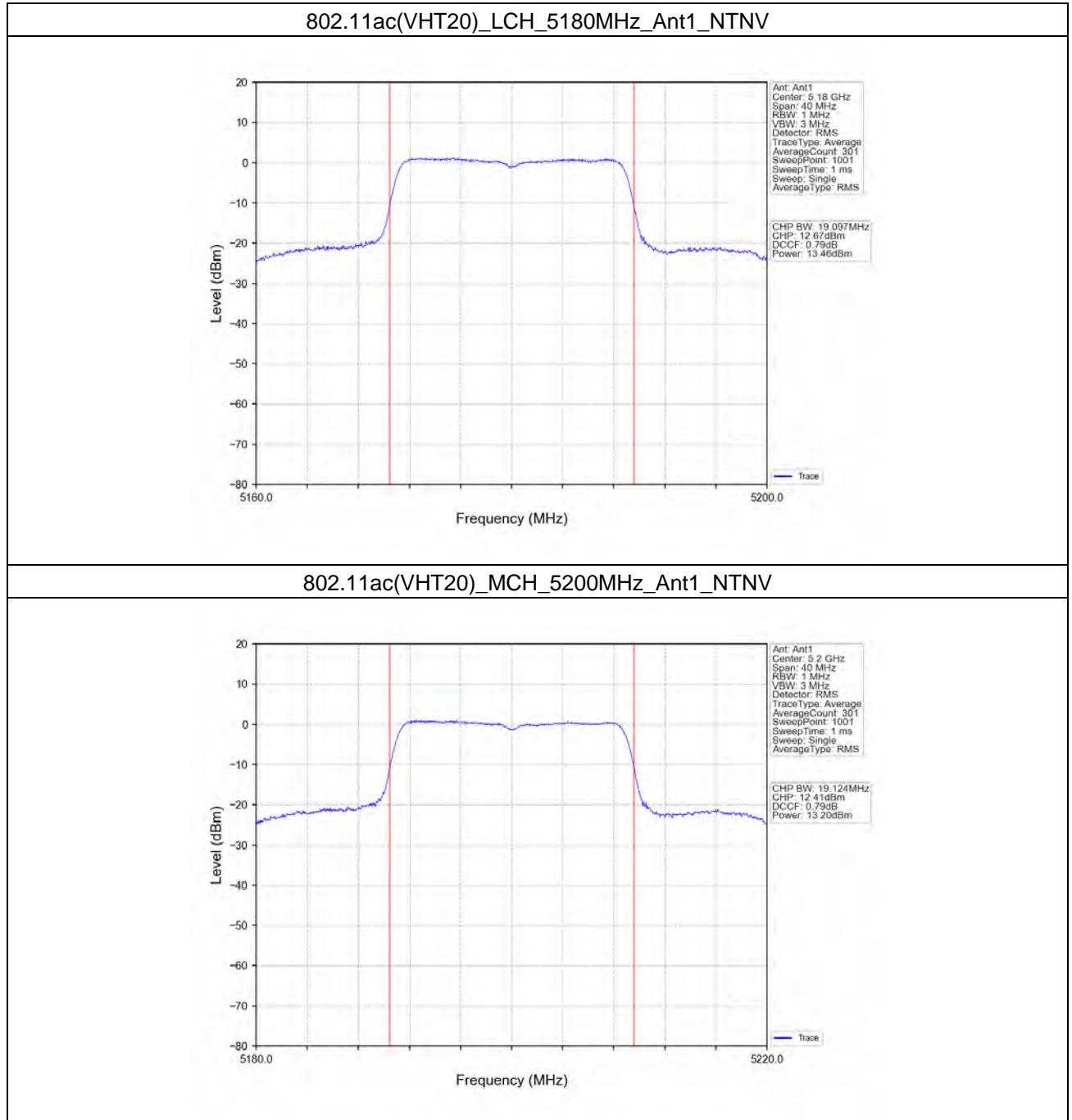
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3.1.2 Test Graph

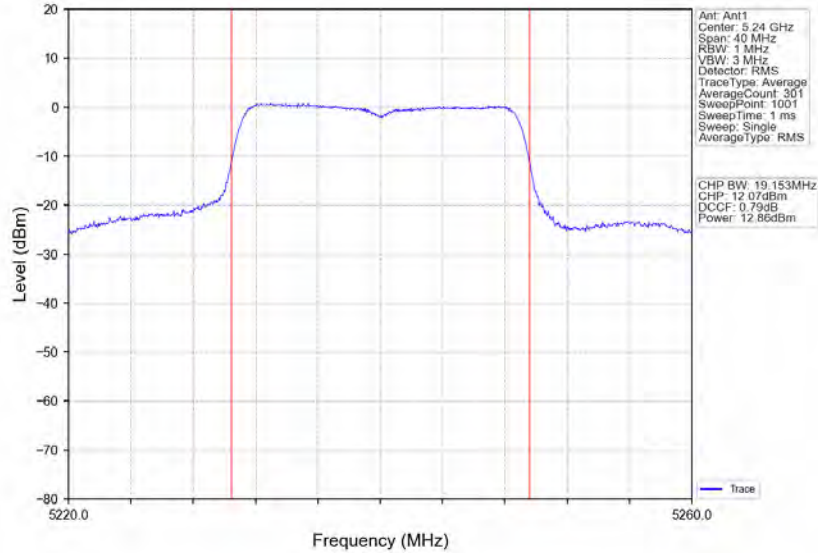


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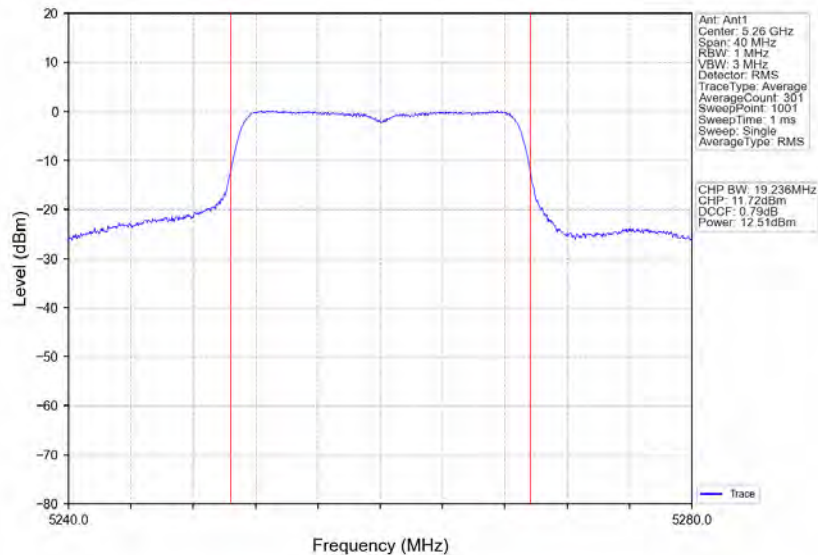
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



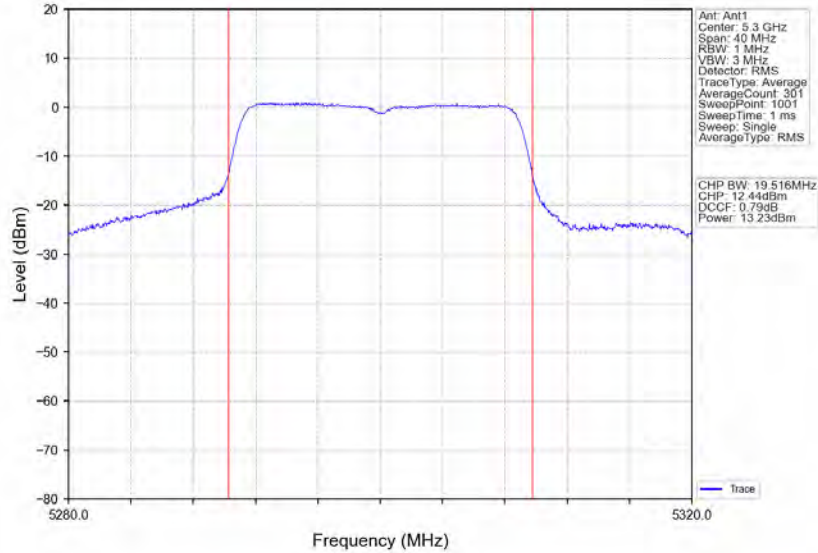
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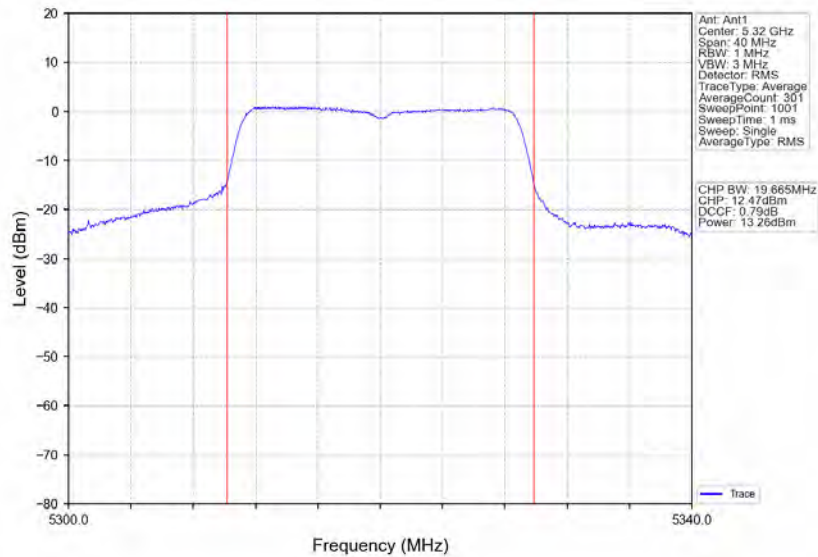
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



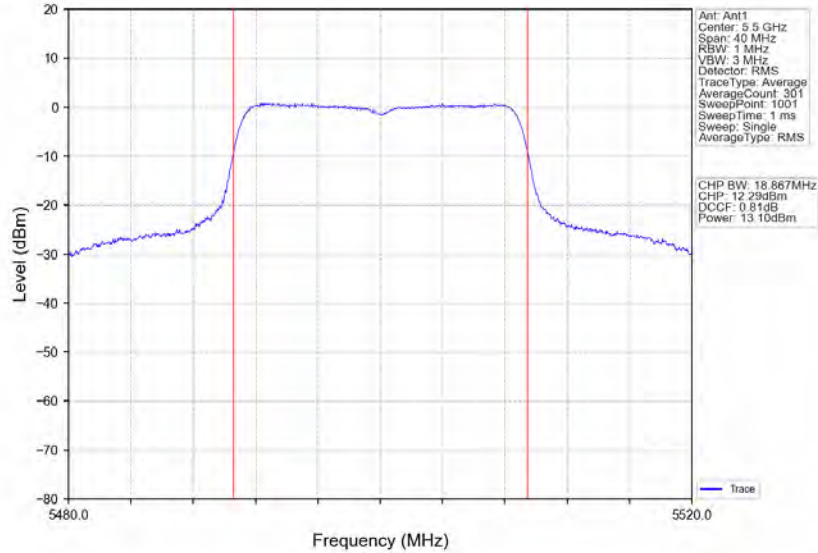
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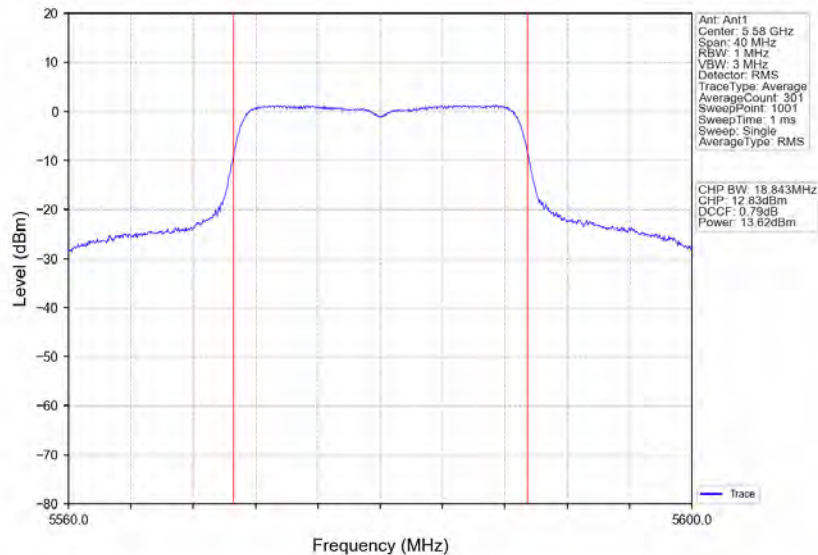
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



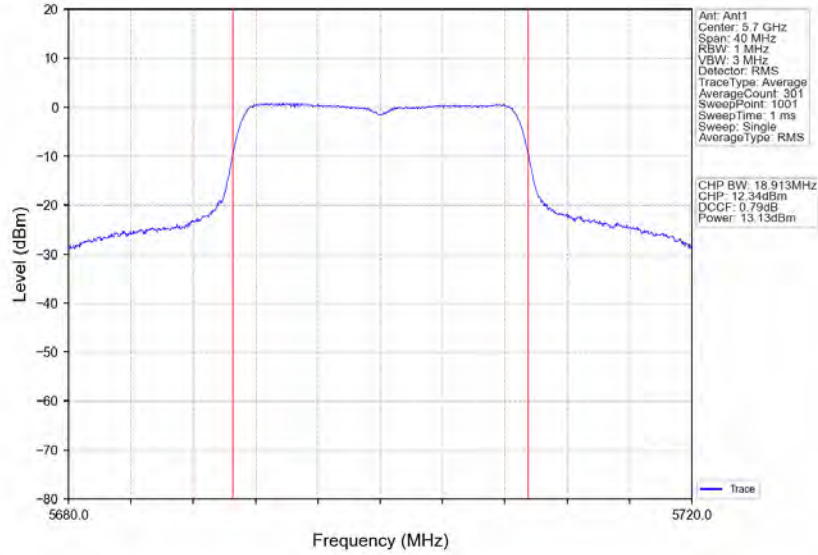
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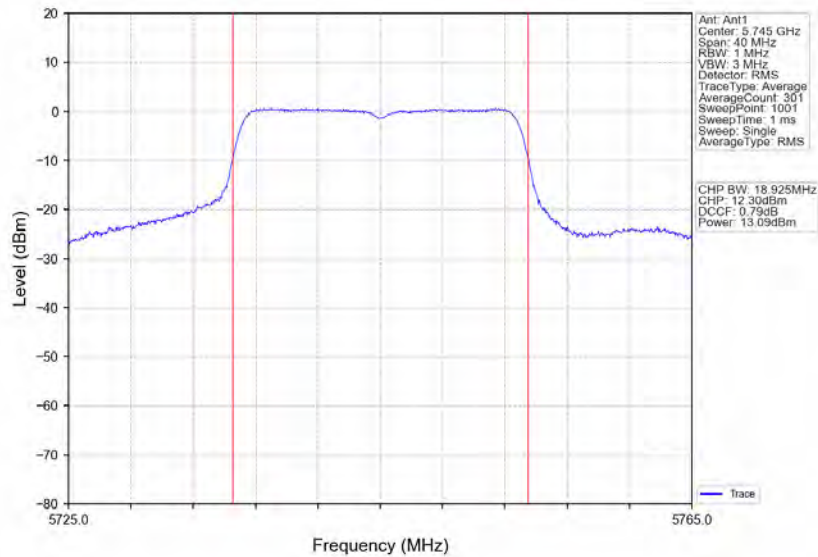
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



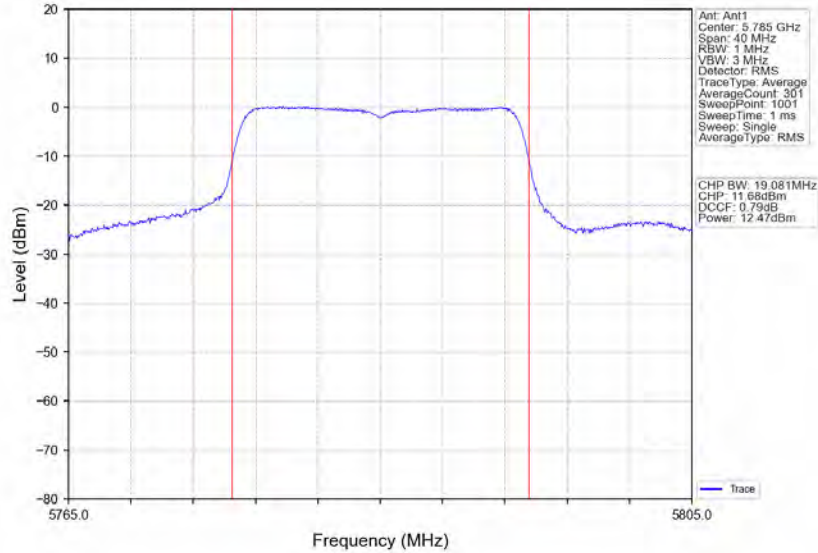
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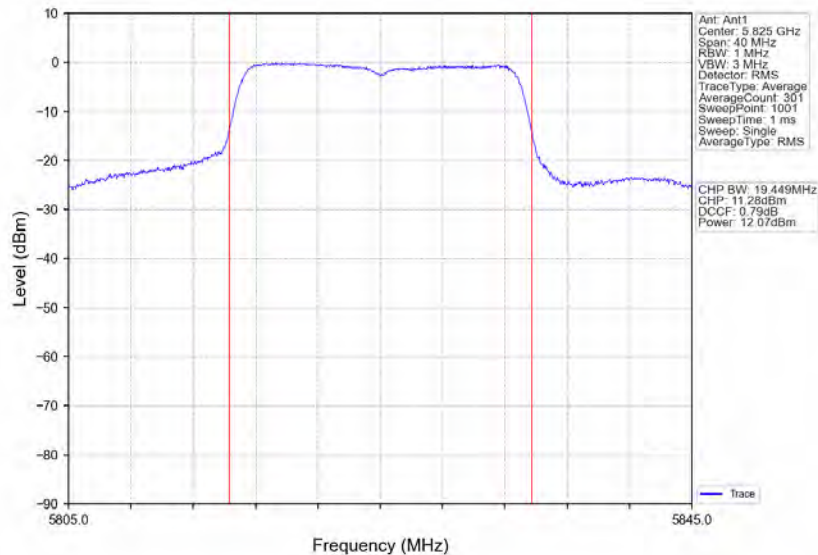
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



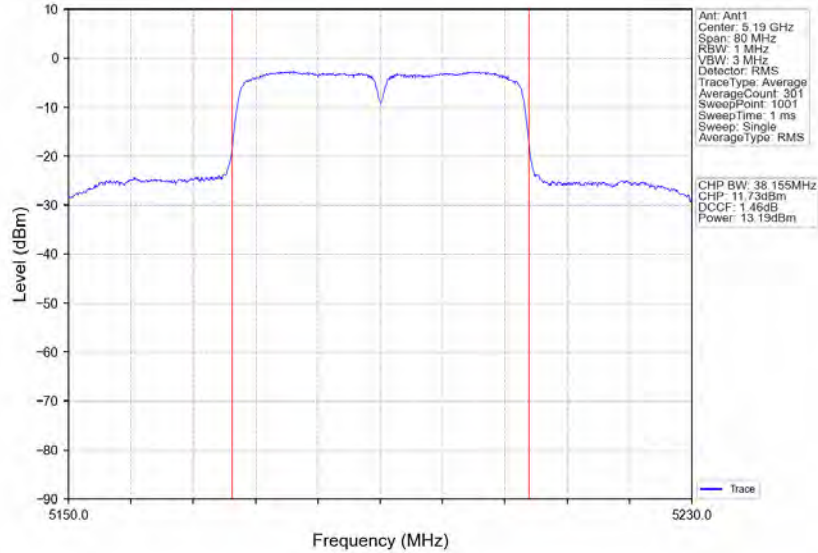
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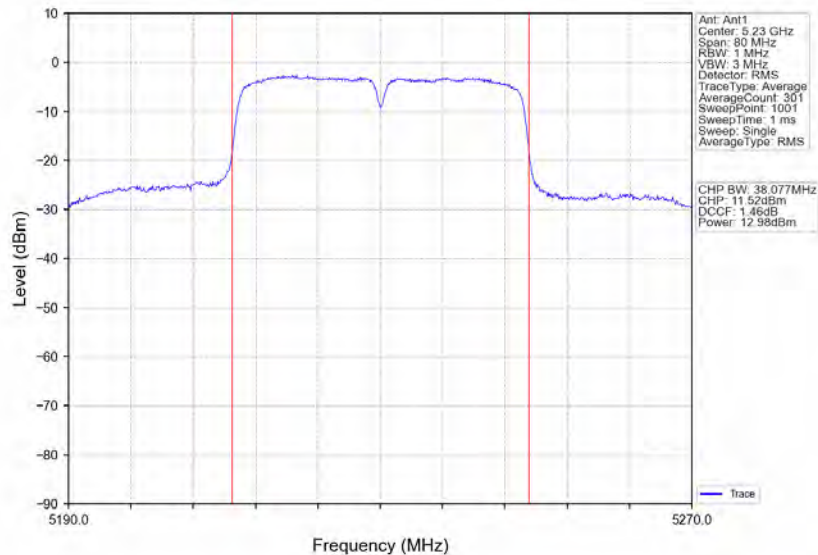
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

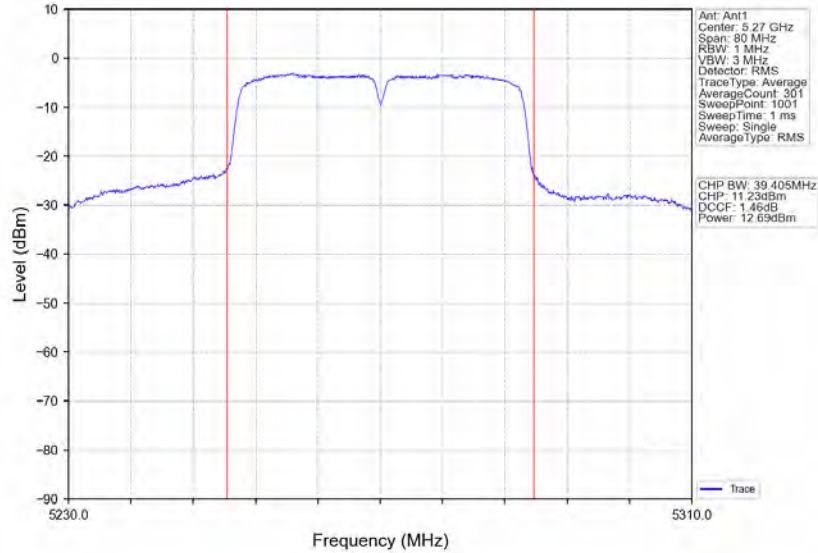


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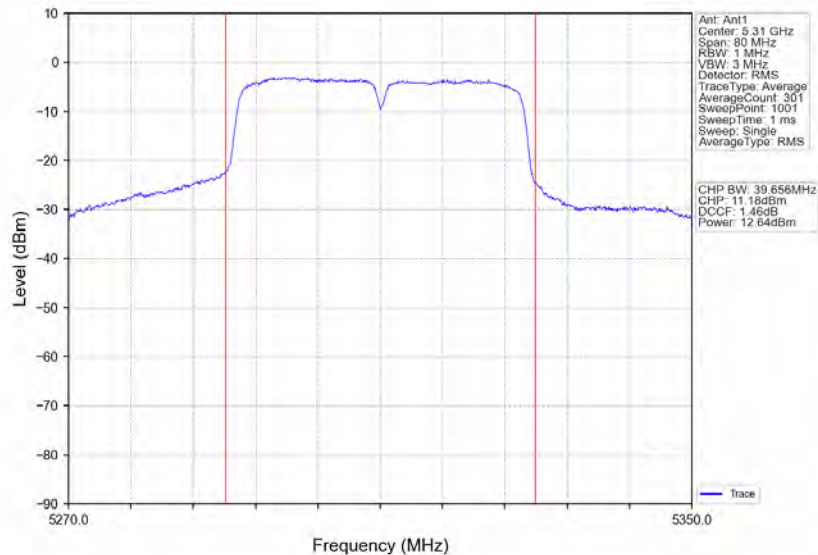
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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



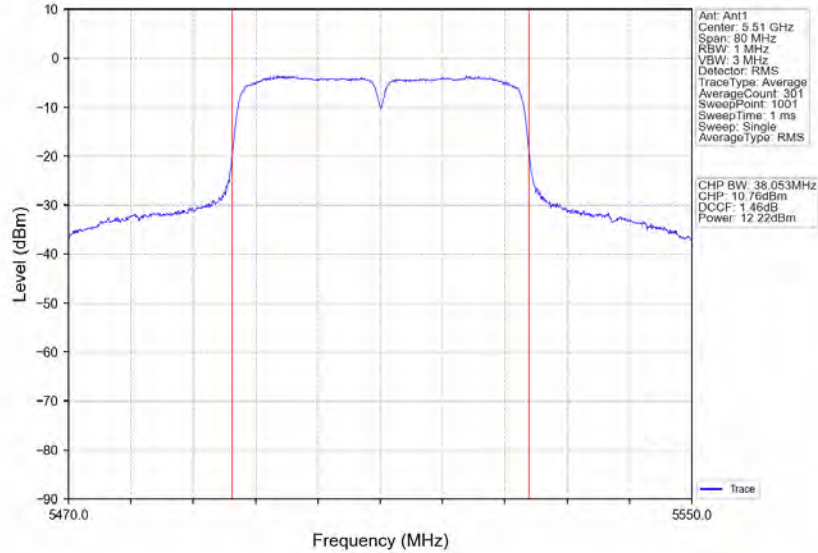
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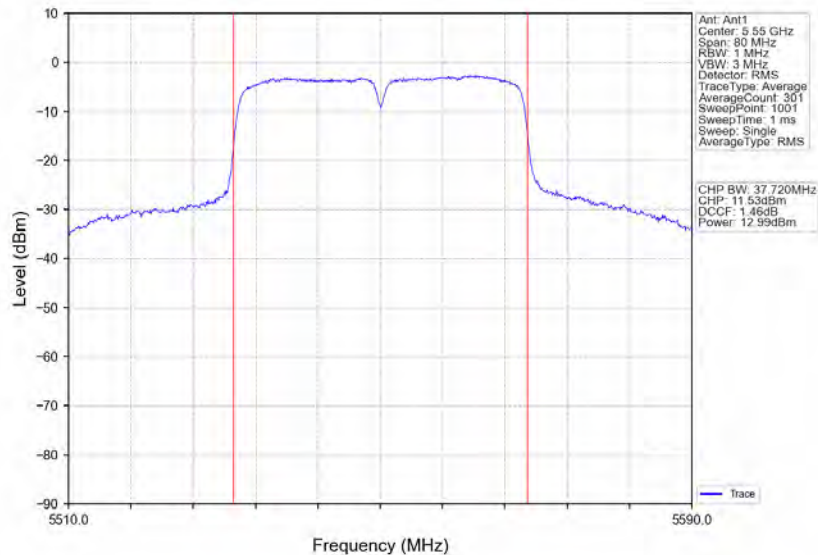
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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



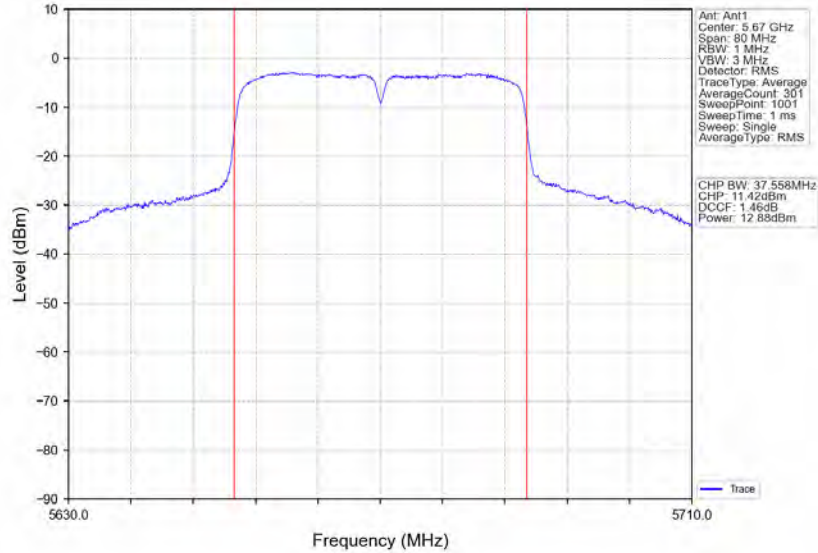
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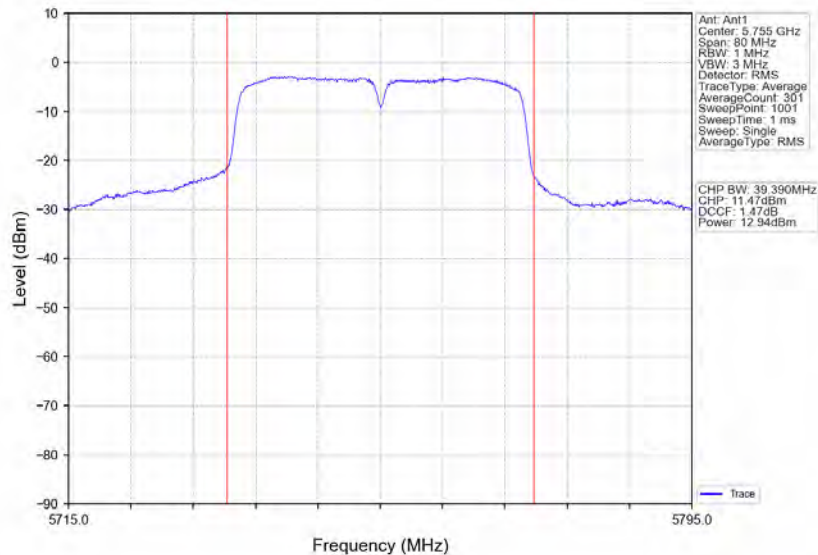
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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



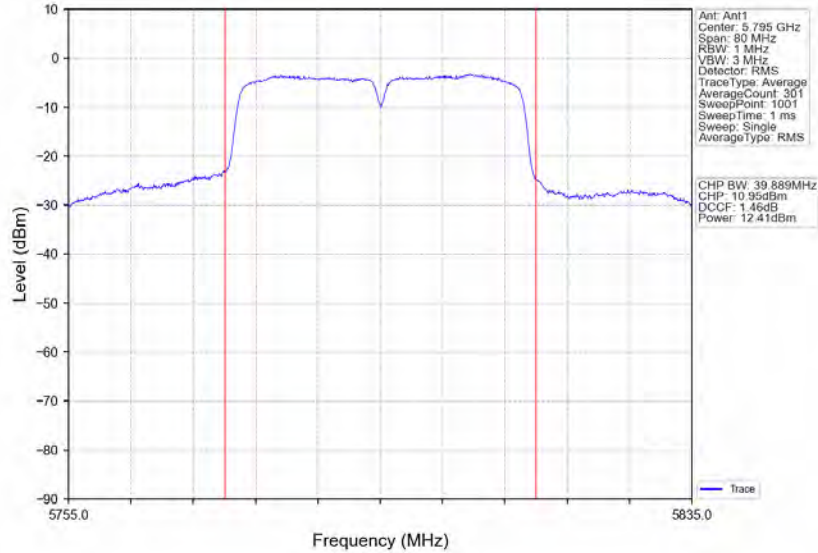
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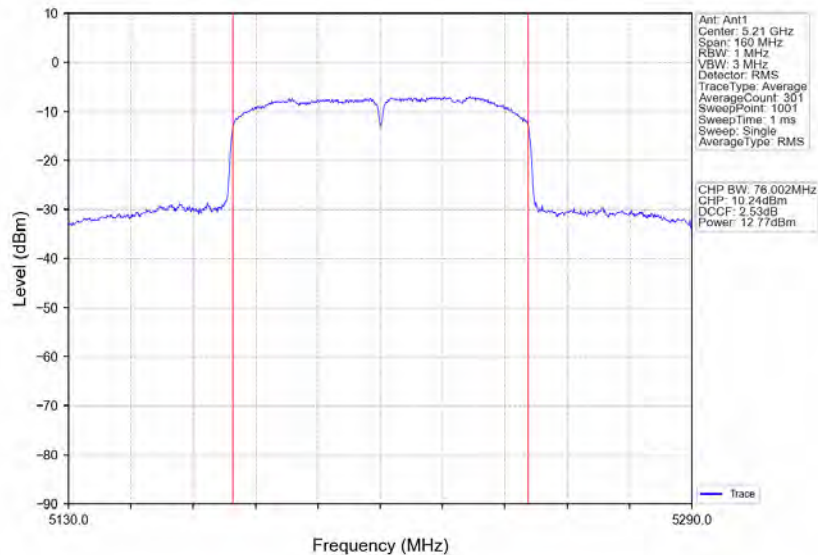
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



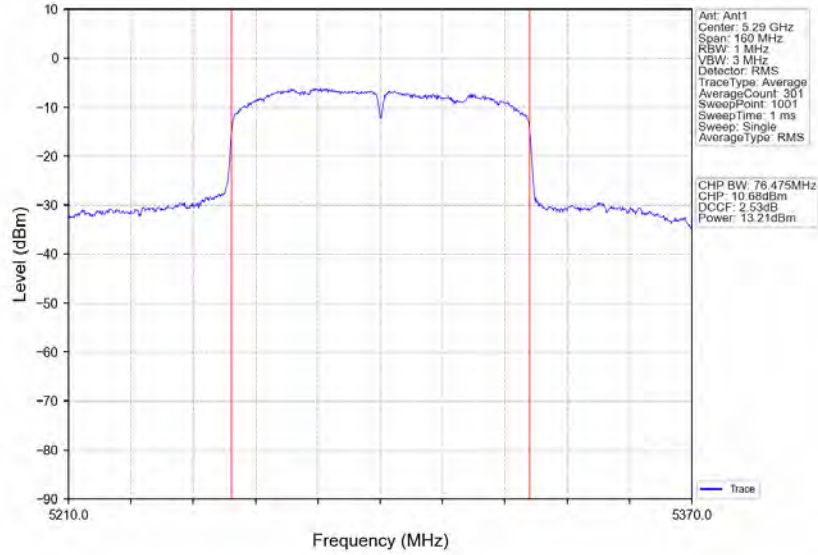
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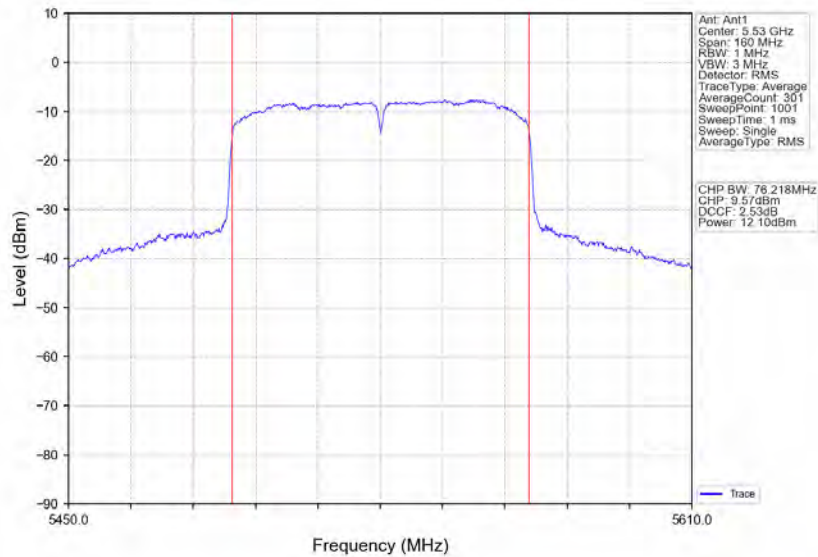
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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



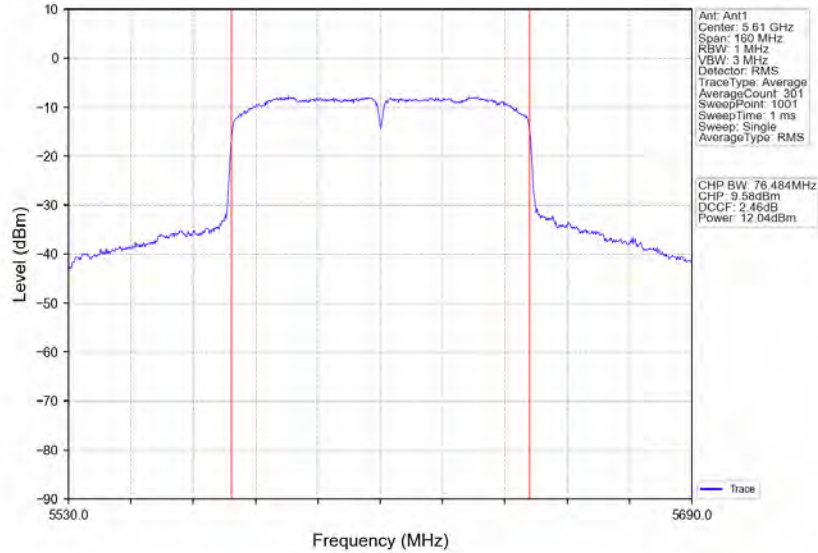
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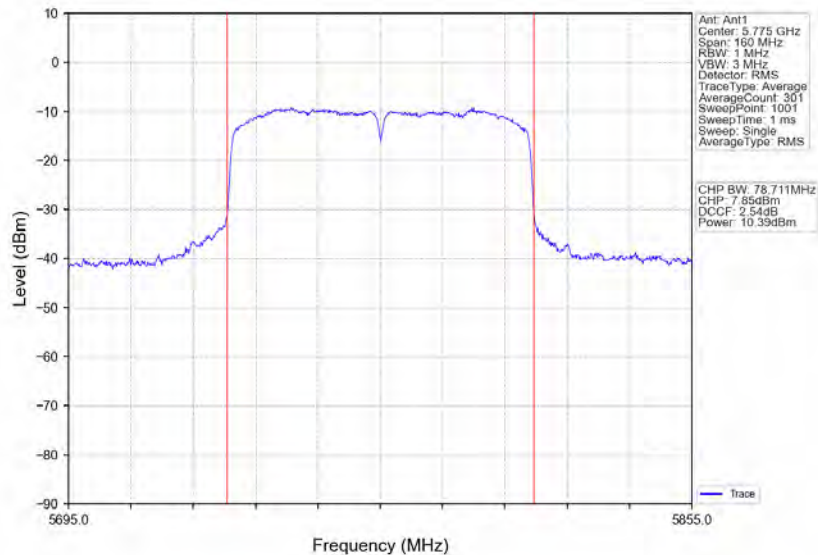
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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5180	1.83	<=11	Pass
		5200	1.67	<=11	Pass
		5240	1.63	<=11	Pass
		5260	0.94	<=11	Pass
		5300	1.64	<=11	Pass
		5320	1.80	<=11	Pass
		5500	1.45	<=11	Pass
		5580	2.17	<=11	Pass
802.11ac (VHT40)	SISO	5700	1.55	<=11	Pass
		5190	-1.06	<=11	Pass
		5230	-1.24	<=11	Pass
		5270	-1.51	<=11	Pass
		5310	-1.66	<=11	Pass
		5510	-2.12	<=11	Pass
		5550	-0.98	<=11	Pass
802.11ac (VHT80)	SISO	5670	-1.41	<=11	Pass
		5210	-4.46	<=11	Pass
		5290	-3.99	<=11	Pass
		5530	-4.52	<=11	Pass
		5610	-5.17	<=11	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

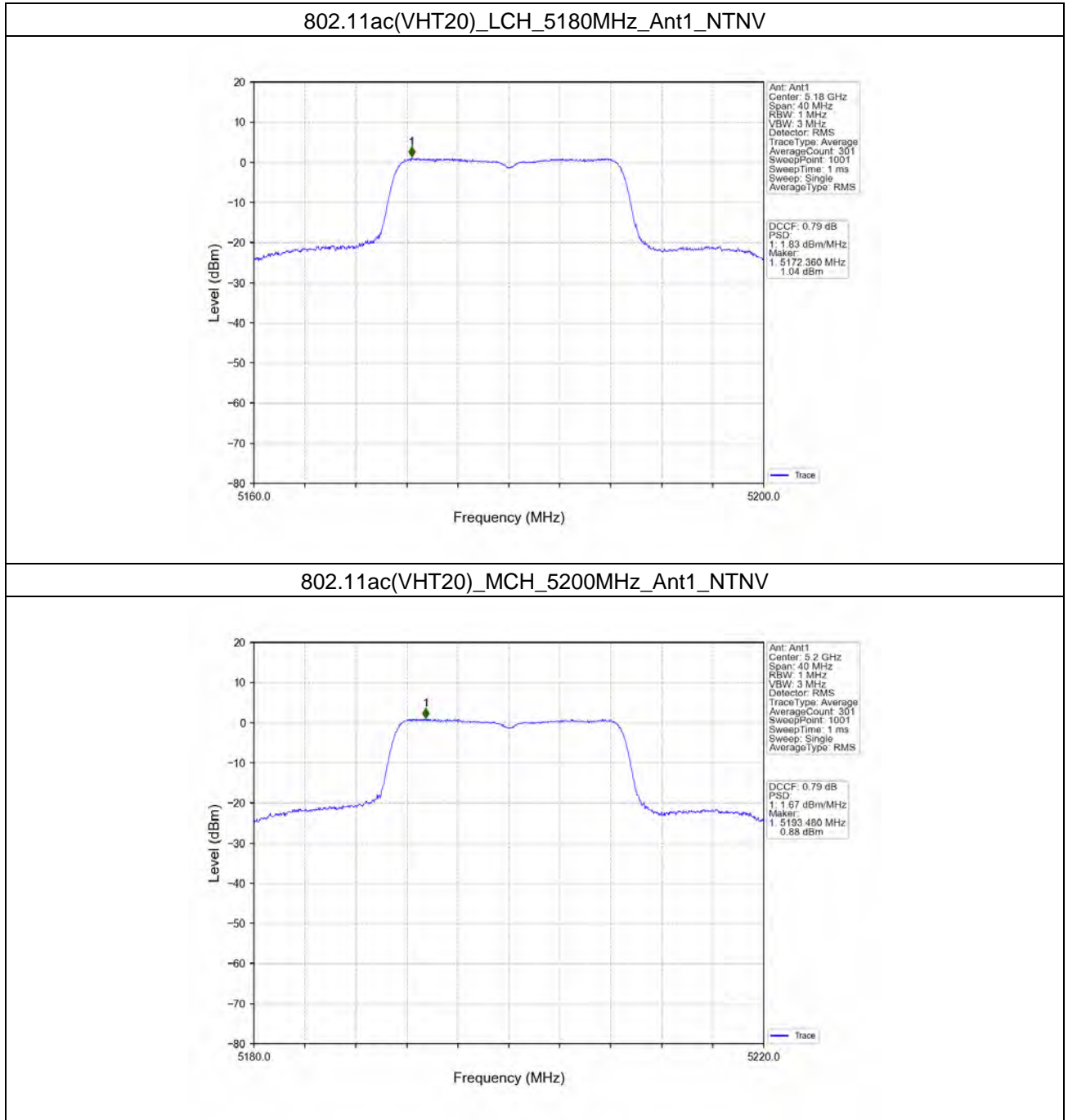


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4.1.2 Test Graph

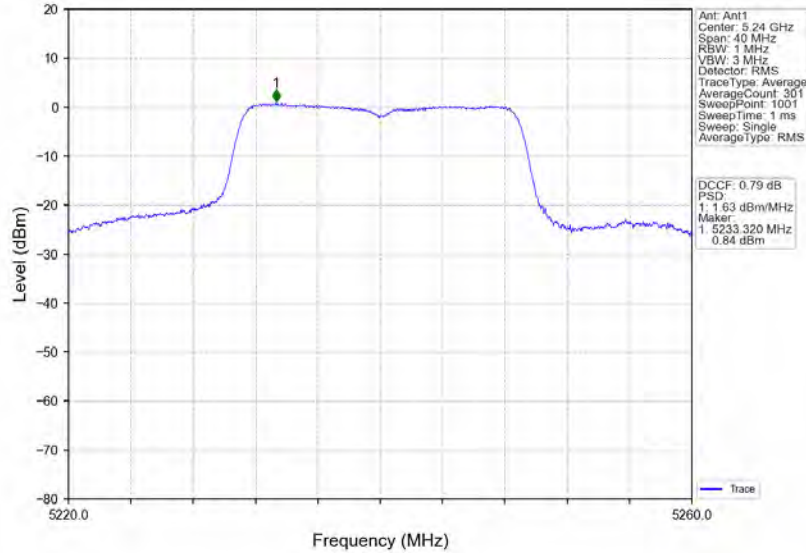


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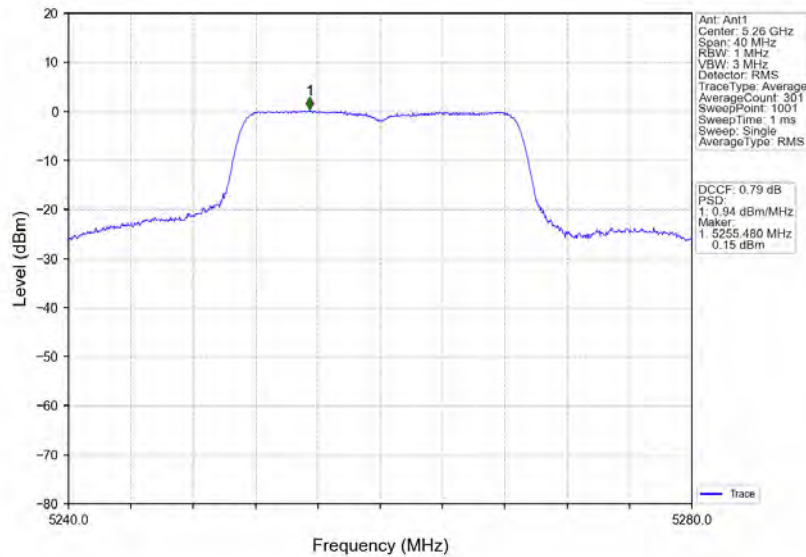
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



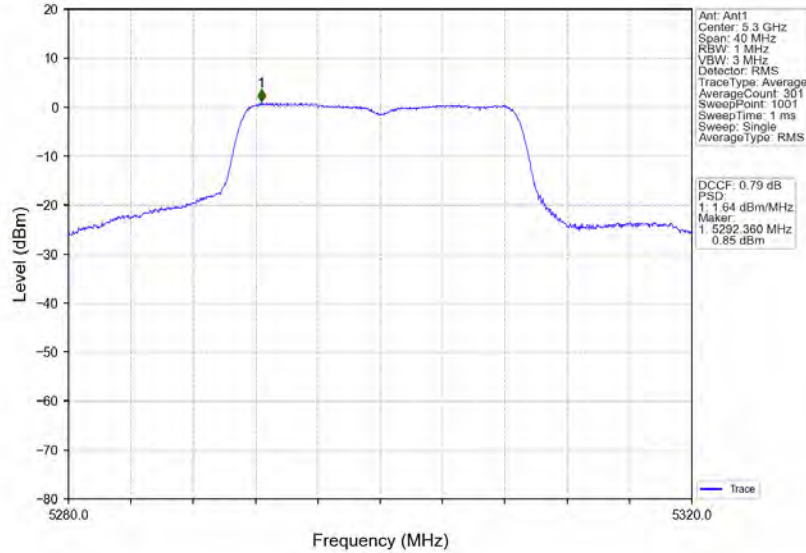
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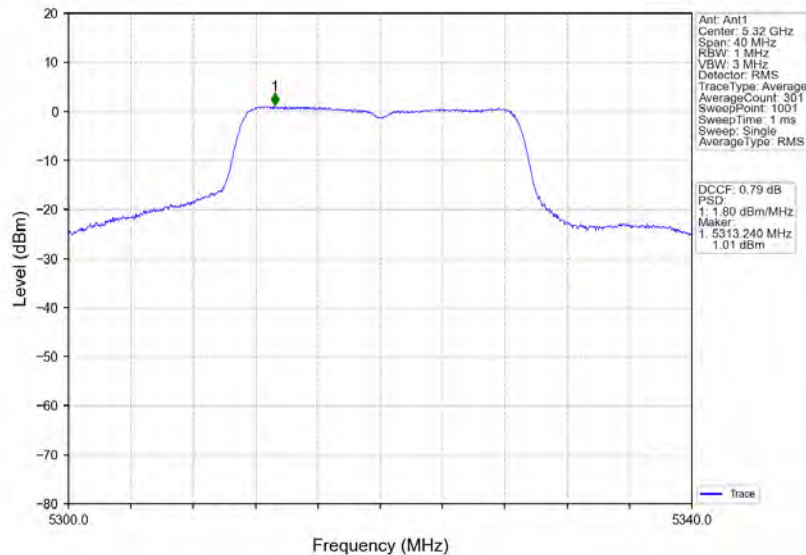
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



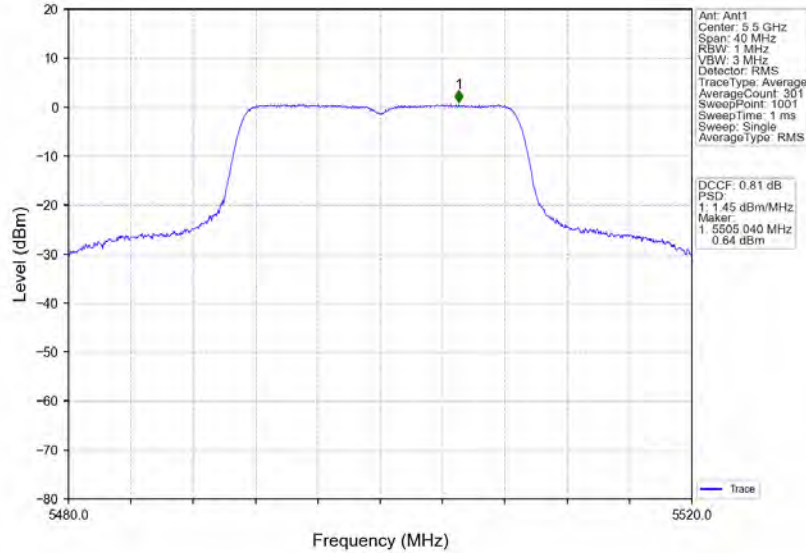
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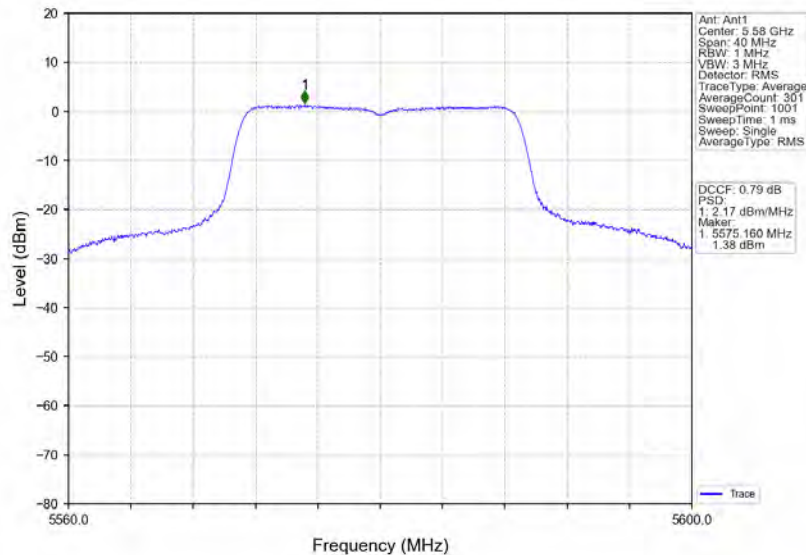
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



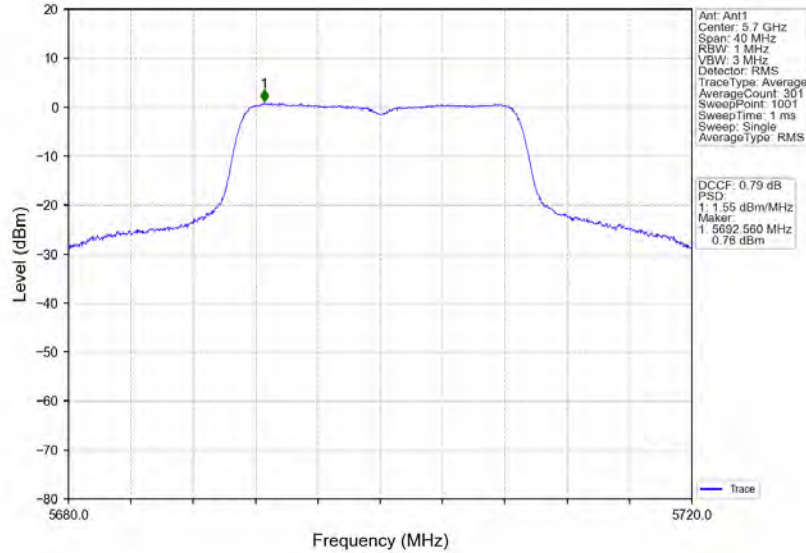
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



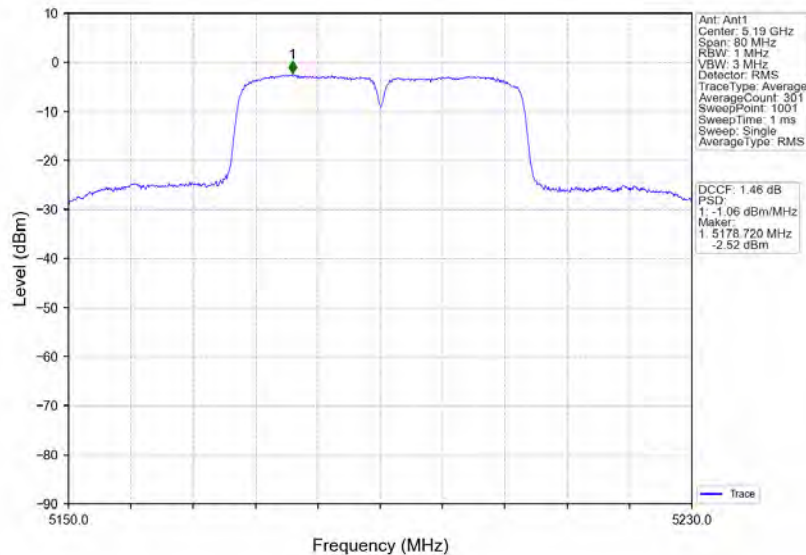
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



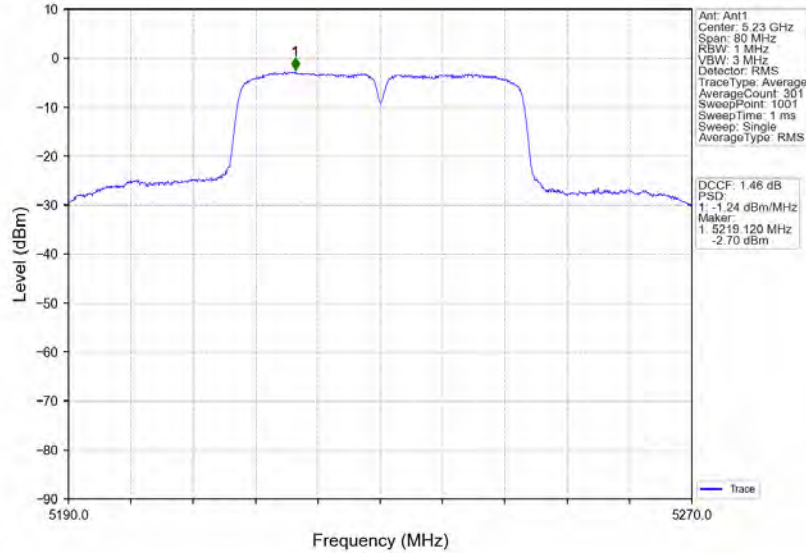
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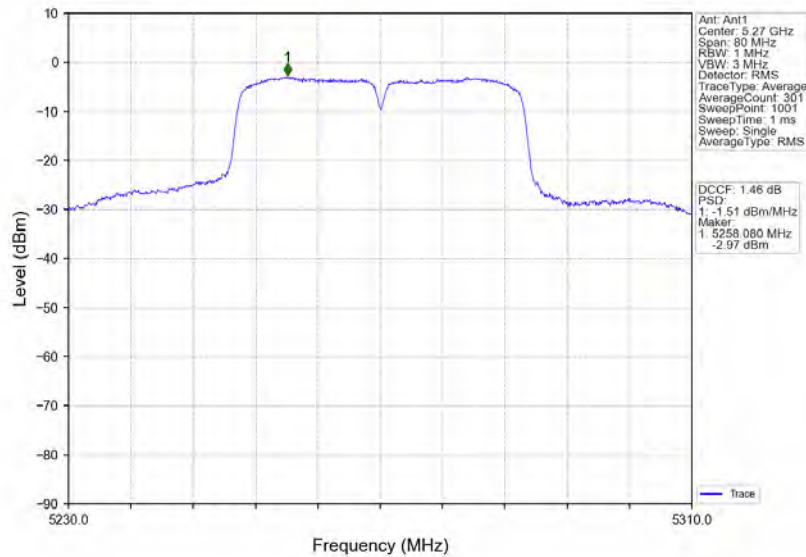
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



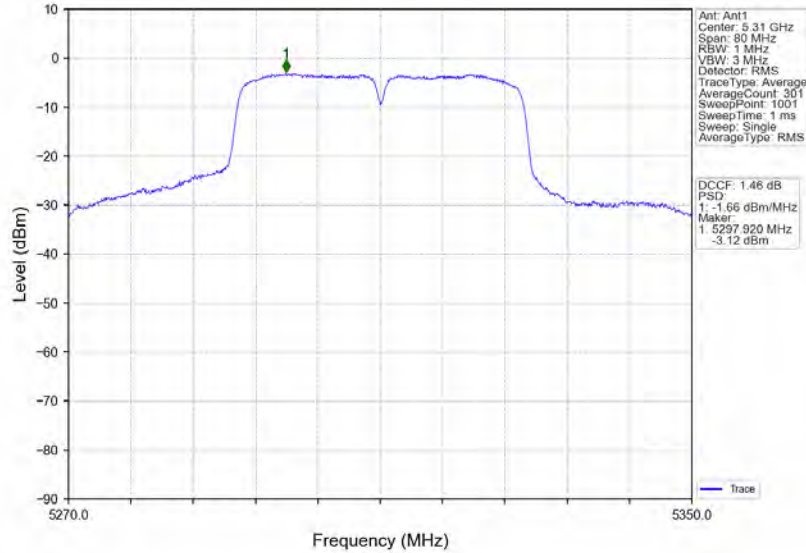
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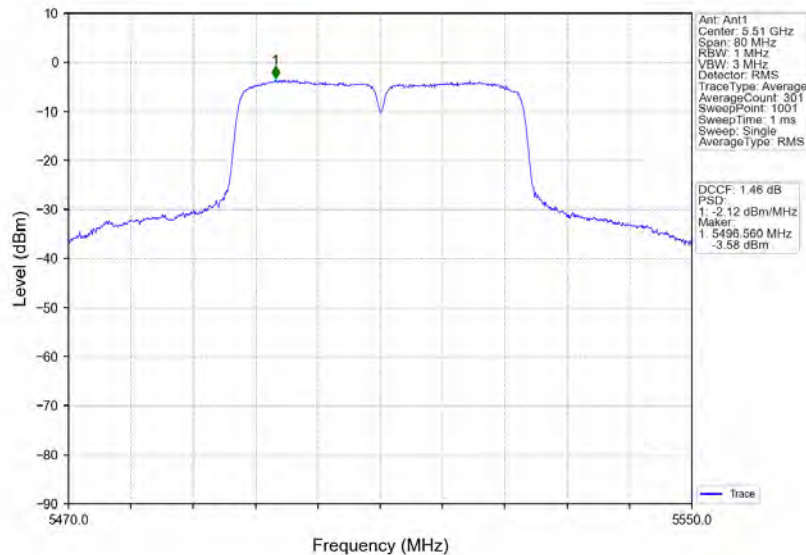
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



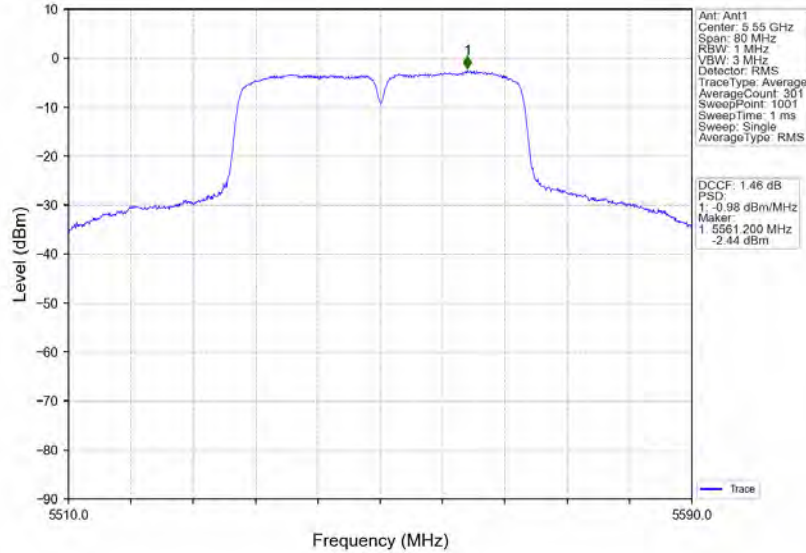
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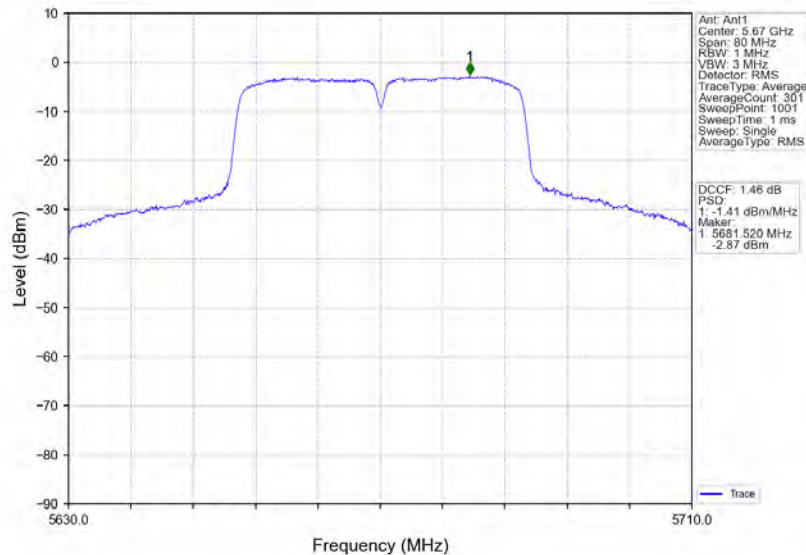
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



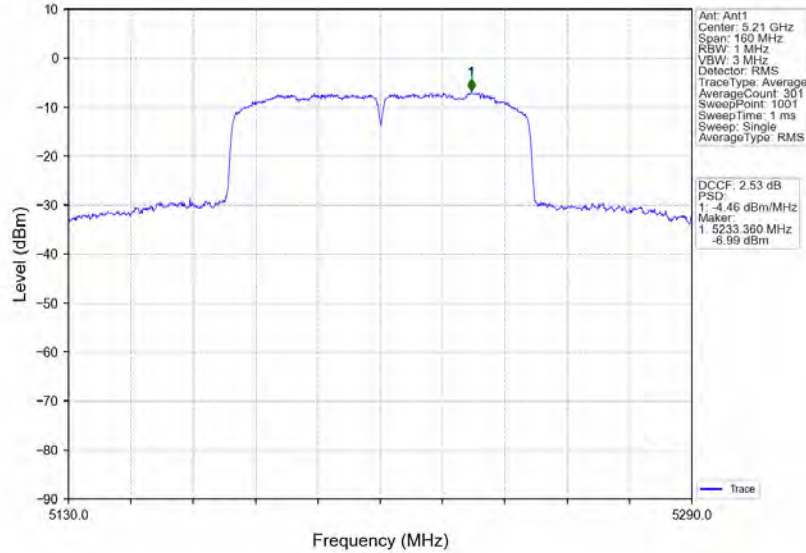
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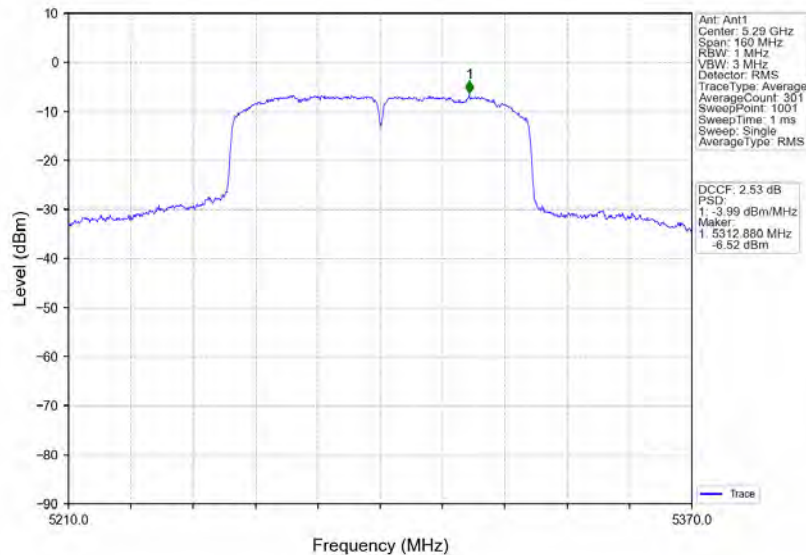
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



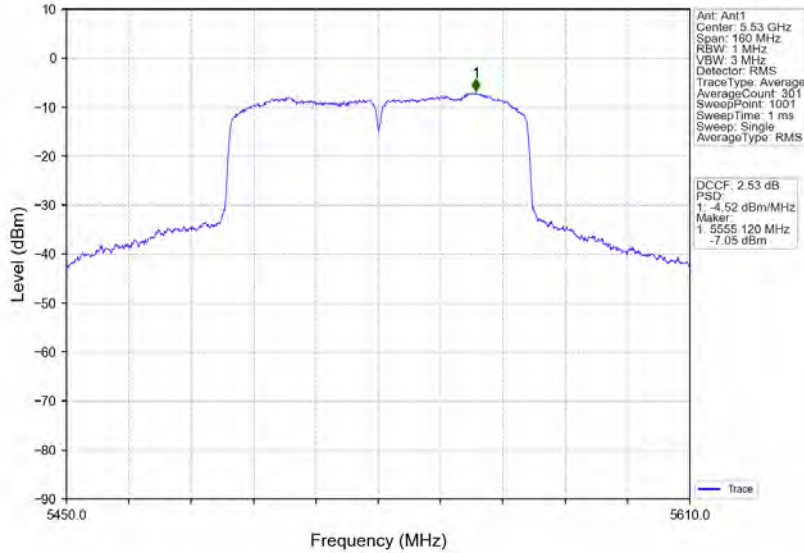
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



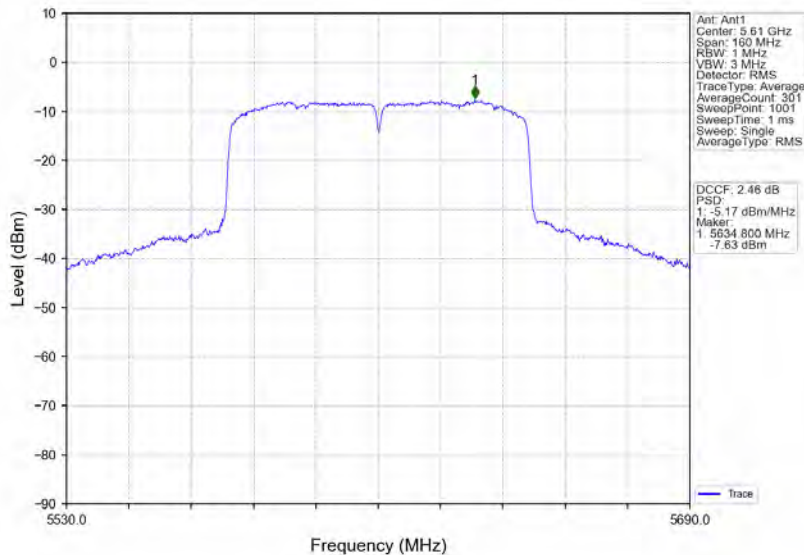
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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Report No.: KSCR220900161101

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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5745	-1.03	<=30	Pass
		5785	-2.00	<=30	Pass
		5825	-2.18	<=30	Pass
802.11ac (VHT40)	SISO	5755	-3.65	<=30	Pass
		5795	-4.67	<=30	Pass
802.11ac (VHT80)	SISO	5775	-9.10	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;



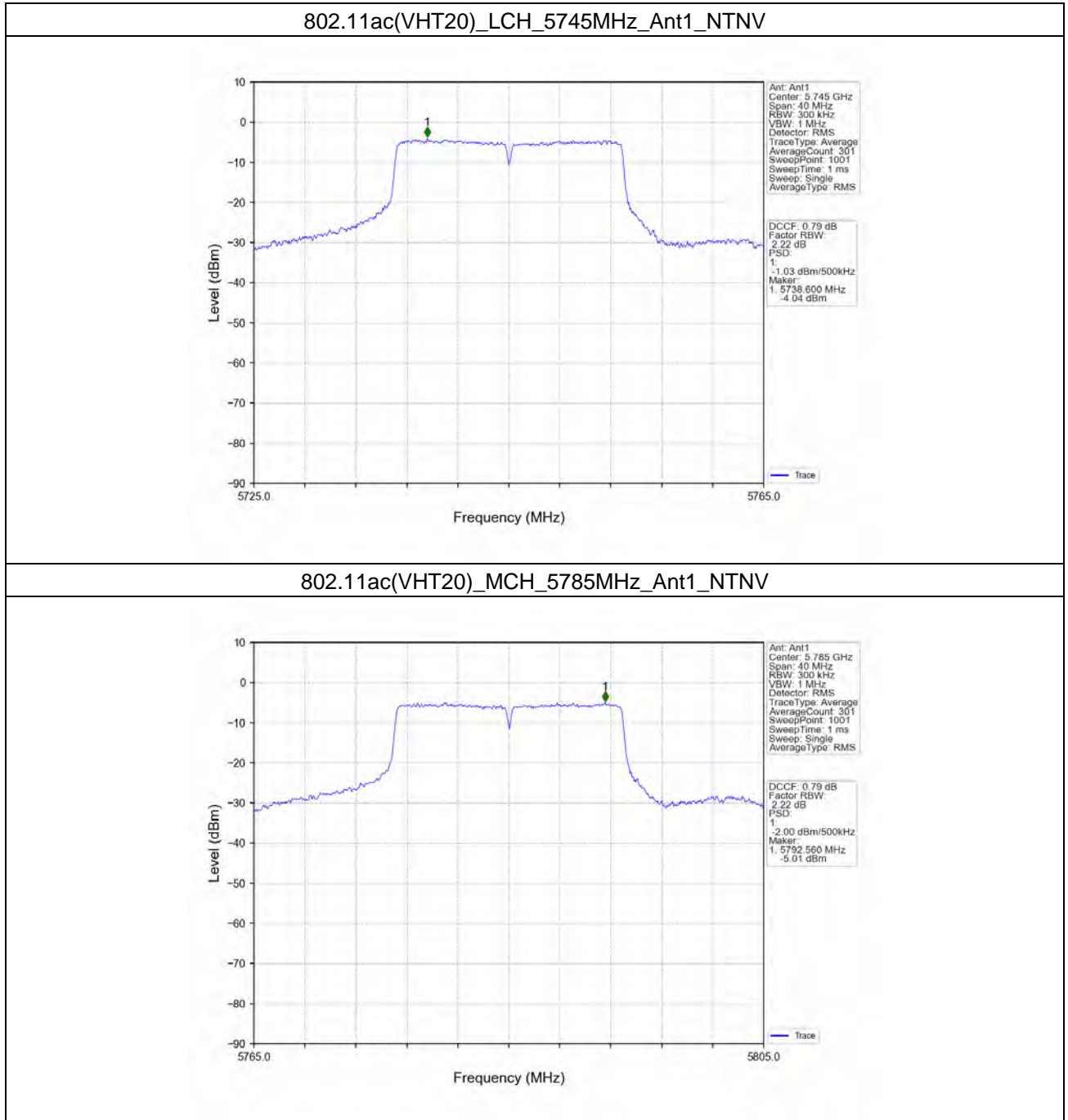
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4.2.2 Test Graph



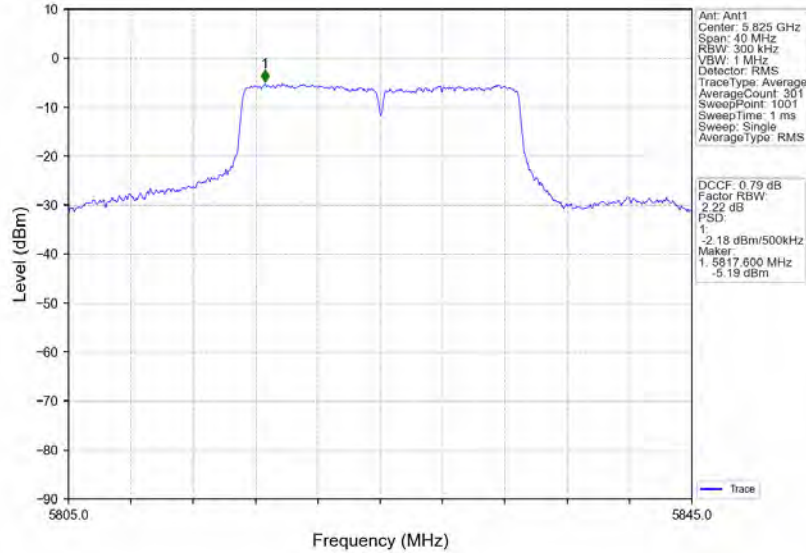
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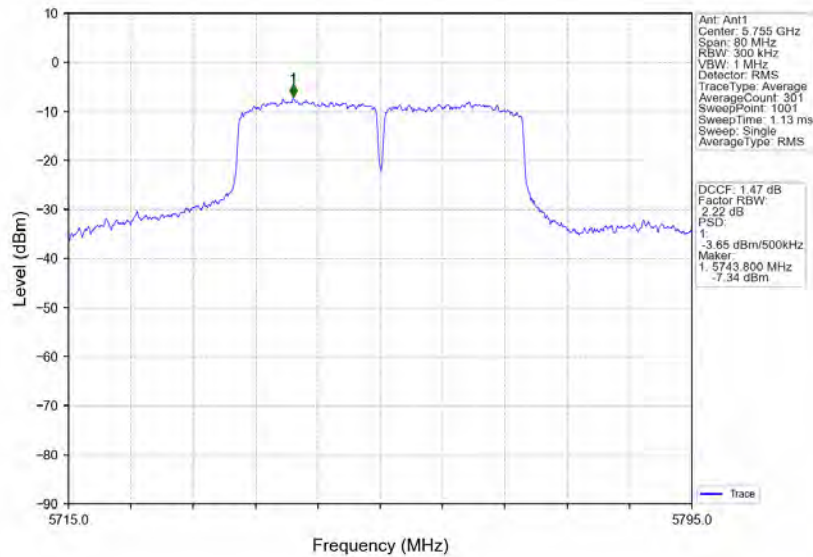
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



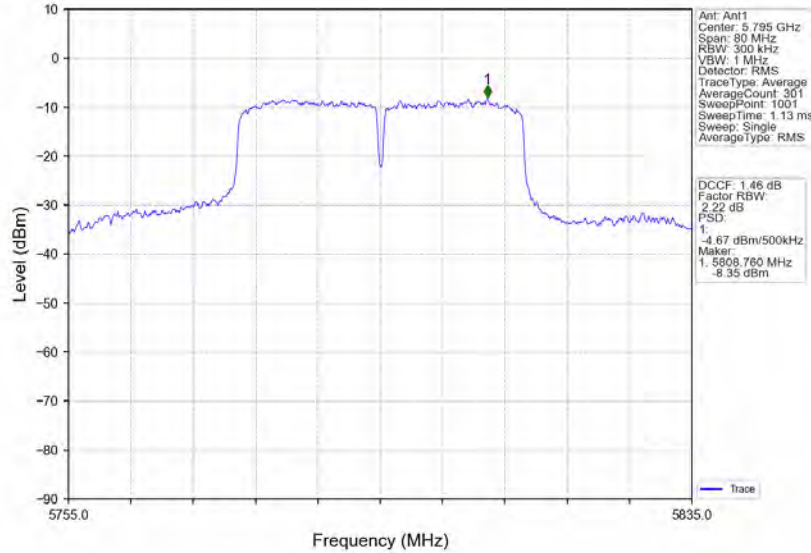
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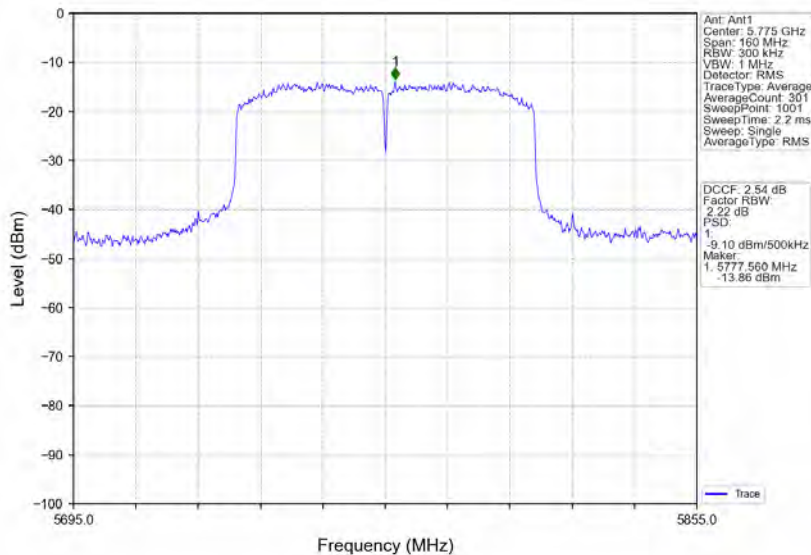
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (DC)	Measured Frequency (MHz)	Limit (MHz)	Verdict	
802.11ac (VHT20)	SISO	5180	20	3.5	5180.040	5150 to 5250	Pass	
				3.8	5180.000	5150 to 5250	Pass	
				4.2	5180.000	5150 to 5250	Pass	
			-20	3.8	5180.020	5150 to 5250	Pass	
				-10	3.8	5180.040	5150 to 5250	Pass
					3.8	5180.020	5150 to 5250	Pass
			0	3.8	5180.020	5150 to 5250	Pass	
				3.8	5179.980	5150 to 5250	Pass	
			20	3.8	5180.020	5150 to 5250	Pass	
			30	3.8	5180.060	5150 to 5250	Pass	
			40	3.8	5180.020	5150 to 5250	Pass	
			50	3.8	5180.020	5150 to 5250	Pass	
		55	3.8	5180.020	5150 to 5250	Pass		
		5200	20	5200	3.5	5200.020	5150 to 5250	Pass
					3.8	5200.020	5150 to 5250	Pass
					4.2	5200.040	5150 to 5250	Pass
			-20	3.8	5200.020	5150 to 5250	Pass	
				-10	3.8	5200.000	5150 to 5250	Pass
					3.8	5200.020	5150 to 5250	Pass
			0	3.8	5200.020	5150 to 5250	Pass	
				3.8	5199.980	5150 to 5250	Pass	
			20	3.8	5200.000	5150 to 5250	Pass	
			30	3.8	5200.020	5150 to 5250	Pass	
			40	3.8	5200.040	5150 to 5250	Pass	
			50	3.8	5200.000	5150 to 5250	Pass	
		55	3.8	5200.020	5150 to 5250	Pass		
		5240	20	5240	3.5	5239.980	5150 to 5250	Pass
					3.8	5239.980	5150 to 5250	Pass
					4.2	5240.020	5150 to 5250	Pass
			-20	3.8	5240.020	5150 to 5250	Pass	
3.8	5240.040			5150 to 5250	Pass			
0	3.8		5240.020	5150 to 5250	Pass			



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			10	3.8	5240.000	5150 to 5250	Pass	
			20	3.8	5240.000	5150 to 5250	Pass	
			30	3.8	5240.000	5150 to 5250	Pass	
			40	3.8	5240.000	5150 to 5250	Pass	
			50	3.8	5240.000	5150 to 5250	Pass	
			55	3.8	5239.980	5150 to 5250	Pass	
		5260	20	3.5	5260.000	5250 to 5350	Pass	
					3.8	5260.020	5250 to 5350	Pass
					4.2	5260.040	5250 to 5350	Pass
				-20	3.8	5260.020	5250 to 5350	Pass
				-10	3.8	5260.020	5250 to 5350	Pass
				0	3.8	5259.980	5250 to 5350	Pass
				10	3.8	5260.020	5250 to 5350	Pass
				20	3.8	5260.000	5250 to 5350	Pass
				30	3.8	5260.040	5250 to 5350	Pass
				40	3.8	5260.040	5250 to 5350	Pass
				50	3.8	5260.020	5250 to 5350	Pass
				55	3.8	5260.040	5250 to 5350	Pass
			5300	20	3.5	5300.020	5250 to 5350	Pass
						3.8	5300.040	5250 to 5350
					4.2	5300.020	5250 to 5350	Pass
				-20	3.8	5300.020	5250 to 5350	Pass
				-10	3.8	5300.040	5250 to 5350	Pass
				0	3.8	5300.020	5250 to 5350	Pass
				10	3.8	5300.020	5250 to 5350	Pass
				20	3.8	5300.000	5250 to 5350	Pass
				30	3.8	5300.020	5250 to 5350	Pass
				40	3.8	5300.020	5250 to 5350	Pass
				50	3.8	5300.040	5250 to 5350	Pass
			55	3.8	5300.020	5250 to 5350	Pass	
		5320	20	3.5	5320.040	5250 to 5350	Pass	
					3.8	5320.000	5250 to 5350	Pass
					4.2	5320.060	5250 to 5350	Pass
				-20	3.8	5320.020	5250 to 5350	Pass
				-10	3.8	5320.020	5250 to 5350	Pass
				0	3.8	5320.000	5250 to 5350	Pass
				10	3.8	5320.040	5250 to 5350	Pass
				20	3.8	5320.020	5250 to 5350	Pass
			30	3.8	5320.060	5250 to 5350	Pass	



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			40	3.8	5320.020	5250 to 5350	Pass	
			50	3.8	5320.020	5250 to 5350	Pass	
			55	3.8	5320.060	5250 to 5350	Pass	
			5500	20	3.5	5500.020	5470 to 5725	Pass
					3.8	5499.960	5470 to 5725	Pass
					4.2	5500.020	5470 to 5725	Pass
				-20	3.8	5500.000	5470 to 5725	Pass
				-10	3.8	5499.980	5470 to 5725	Pass
				0	3.8	5500.020	5470 to 5725	Pass
				10	3.8	5500.040	5470 to 5725	Pass
				20	3.8	5500.080	5470 to 5725	Pass
				30	3.8	5500.020	5470 to 5725	Pass
				40	3.8	5500.020	5470 to 5725	Pass
				50	3.8	5500.020	5470 to 5725	Pass
				55	3.8	5500.020	5470 to 5725	Pass
			5580	20	3.5	5580.000	5470 to 5725	Pass
					3.8	5580.000	5470 to 5725	Pass
					4.2	5580.020	5470 to 5725	Pass
				-20	3.8	5579.980	5470 to 5725	Pass
				-10	3.8	5580.040	5470 to 5725	Pass
				0	3.8	5580.000	5470 to 5725	Pass
				10	3.8	5580.000	5470 to 5725	Pass
				20	3.8	5580.000	5470 to 5725	Pass
				30	3.8	5580.020	5470 to 5725	Pass
				40	3.8	5580.000	5470 to 5725	Pass
				50	3.8	5580.000	5470 to 5725	Pass
				55	3.8	5580.040	5470 to 5725	Pass
			5700	20	3.5	5700.020	5470 to 5725	Pass
					3.8	5700.000	5470 to 5725	Pass
					4.2	5700.000	5470 to 5725	Pass
				-20	3.8	5700.000	5470 to 5725	Pass
				-10	3.8	5700.000	5470 to 5725	Pass
				0	3.8	5700.020	5470 to 5725	Pass
				10	3.8	5700.000	5470 to 5725	Pass
				20	3.8	5700.020	5470 to 5725	Pass
				30	3.8	5700.020	5470 to 5725	Pass
40	3.8	5700.020		5470 to 5725	Pass			
50	3.8	5700.000		5470 to 5725	Pass			
55	3.8	5700.060		5470 to 5725	Pass			



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Compliance Certification Services (Kunshan) Inc.

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		5745	20	3.5	5744.980	5725 to 5850	Pass
				3.8	5744.980	5725 to 5850	Pass
				4.2	5744.960	5725 to 5850	Pass
			-20	3.8	5744.980	5725 to 5850	Pass
			-10	3.8	5745.000	5725 to 5850	Pass
			0	3.8	5745.000	5725 to 5850	Pass
			10	3.8	5744.980	5725 to 5850	Pass
			20	3.8	5745.000	5725 to 5850	Pass
			30	3.8	5745.000	5725 to 5850	Pass
			40	3.8	5745.040	5725 to 5850	Pass
			50	3.8	5745.000	5725 to 5850	Pass
		55	3.8	5745.020	5725 to 5850	Pass	
		5785	20	3.5	5785.000	5725 to 5850	Pass
				3.8	5785.000	5725 to 5850	Pass
				4.2	5785.040	5725 to 5850	Pass
			-20	3.8	5785.040	5725 to 5850	Pass
			-10	3.8	5785.040	5725 to 5850	Pass
			0	3.8	5785.020	5725 to 5850	Pass
			10	3.8	5785.040	5725 to 5850	Pass
			20	3.8	5785.060	5725 to 5850	Pass
			30	3.8	5785.020	5725 to 5850	Pass
			40	3.8	5785.040	5725 to 5850	Pass
			50	3.8	5785.060	5725 to 5850	Pass
		55	3.8	5785.040	5725 to 5850	Pass	
		5825	20	3.5	5825.020	5725 to 5850	Pass
				3.8	5825.000	5725 to 5850	Pass
				4.2	5825.020	5725 to 5850	Pass
			-20	3.8	5825.040	5725 to 5850	Pass
			-10	3.8	5825.040	5725 to 5850	Pass
			0	3.8	5825.020	5725 to 5850	Pass
			10	3.8	5825.060	5725 to 5850	Pass
			20	3.8	5825.000	5725 to 5850	Pass
			30	3.8	5824.980	5725 to 5850	Pass
40	3.8		5825.040	5725 to 5850	Pass		
50	3.8		5824.980	5725 to 5850	Pass		
55	3.8	5825.040	5725 to 5850	Pass			
802.11ac (VHT40)	SISO	5190	20	3.5	5190.080	5150 to 5250	Pass
				3.8	5190.120	5150 to 5250	Pass
				4.2	5190.000	5150 to 5250	Pass



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			-20	3.8	5190.040	5150 to 5250	Pass	
			-10	3.8	5190.080	5150 to 5250	Pass	
			0	3.8	5190.120	5150 to 5250	Pass	
			10	3.8	5190.040	5150 to 5250	Pass	
			20	3.8	5190.120	5150 to 5250	Pass	
			30	3.8	5190.080	5150 to 5250	Pass	
			40	3.8	5190.040	5150 to 5250	Pass	
			50	3.8	5190.040	5150 to 5250	Pass	
			55	3.8	5190.040	5150 to 5250	Pass	
		5230	20	3.5	5230.120	5150 to 5250	Pass	
				3.8	5230.120	5150 to 5250	Pass	
				4.2	5230.080	5150 to 5250	Pass	
				-20	3.8	5230.080	5150 to 5250	Pass
				-10	3.8	5230.040	5150 to 5250	Pass
				0	3.8	5230.040	5150 to 5250	Pass
				10	3.8	5230.080	5150 to 5250	Pass
				20	3.8	5230.080	5150 to 5250	Pass
				30	3.8	5230.080	5150 to 5250	Pass
				40	3.8	5230.040	5150 to 5250	Pass
				50	3.8	5230.040	5150 to 5250	Pass
				55	3.8	5230.080	5150 to 5250	Pass
			5270	20	3.5	5270.120	5250 to 5350	Pass
		3.8			5270.040	5250 to 5350	Pass	
		4.2			5270.040	5250 to 5350	Pass	
				-20	3.8	5270.120	5250 to 5350	Pass
				-10	3.8	5270.080	5250 to 5350	Pass
				0	3.8	5270.080	5250 to 5350	Pass
				10	3.8	5270.040	5250 to 5350	Pass
				20	3.8	5270.040	5250 to 5350	Pass
				30	3.8	5270.120	5250 to 5350	Pass
				40	3.8	5270.120	5250 to 5350	Pass
			50	3.8	5270.040	5250 to 5350	Pass	
			55	3.8	5270.040	5250 to 5350	Pass	
		5310	20	3.5	5310.080	5250 to 5350	Pass	
				3.8	5310.040	5250 to 5350	Pass	
				4.2	5310.080	5250 to 5350	Pass	
				-20	3.8	5310.000	5250 to 5350	Pass
				-10	3.8	5310.000	5250 to 5350	Pass
			0	3.8	5310.000	5250 to 5350	Pass	



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			10	3.8	5310.040	5250 to 5350	Pass	
			20	3.8	5310.040	5250 to 5350	Pass	
			30	3.8	5310.120	5250 to 5350	Pass	
			40	3.8	5310.040	5250 to 5350	Pass	
			50	3.8	5310.120	5250 to 5350	Pass	
			55	3.8	5310.000	5250 to 5350	Pass	
		5510	20	3.5	5510.120	5470 to 5725	Pass	
				3.8	5510.040	5470 to 5725	Pass	
				4.2	5510.040	5470 to 5725	Pass	
			-20	3.8	5510.040	5470 to 5725	Pass	
			-10	3.8	5510.000	5470 to 5725	Pass	
			0	3.8	5510.040	5470 to 5725	Pass	
			10	3.8	5510.040	5470 to 5725	Pass	
			20	3.8	5510.080	5470 to 5725	Pass	
			30	3.8	5509.960	5470 to 5725	Pass	
			40	3.8	5510.120	5470 to 5725	Pass	
			50	3.8	5510.120	5470 to 5725	Pass	
			55	3.8	5510.000	5470 to 5725	Pass	
			5550	20	3.5	5550.040	5470 to 5725	Pass
					3.8	5550.080	5470 to 5725	Pass
		4.2			5549.960	5470 to 5725	Pass	
		-20		3.8	5550.000	5470 to 5725	Pass	
		-10		3.8	5550.000	5470 to 5725	Pass	
		0		3.8	5550.040	5470 to 5725	Pass	
		10		3.8	5550.000	5470 to 5725	Pass	
		20		3.8	5550.080	5470 to 5725	Pass	
		30		3.8	5550.040	5470 to 5725	Pass	
		40		3.8	5550.040	5470 to 5725	Pass	
		50	3.8	5550.000	5470 to 5725	Pass		
		55	3.8	5550.080	5470 to 5725	Pass		
		5670	20	3.5	5670.000	5470 to 5725	Pass	
				3.8	5669.960	5470 to 5725	Pass	
				4.2	5669.960	5470 to 5725	Pass	
			-20	3.8	5670.000	5470 to 5725	Pass	
			-10	3.8	5670.000	5470 to 5725	Pass	
			0	3.8	5669.960	5470 to 5725	Pass	
			10	3.8	5670.080	5470 to 5725	Pass	
			20	3.8	5670.080	5470 to 5725	Pass	
			30	3.8	5670.040	5470 to 5725	Pass	



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			40	3.8	5670.040	5470 to 5725	Pass		
			50	3.8	5670.000	5470 to 5725	Pass		
			55	3.8	5670.040	5470 to 5725	Pass		
		5755	20	3.5	5755.080	5725 to 5850	Pass		
				3.8	5754.960	5725 to 5850	Pass		
				4.2	5755.000	5725 to 5850	Pass		
			-20	3.8	5755.040	5725 to 5850	Pass		
			-10	3.8	5755.000	5725 to 5850	Pass		
			0	3.8	5755.080	5725 to 5850	Pass		
			10	3.8	5754.960	5725 to 5850	Pass		
			20	3.8	5754.960	5725 to 5850	Pass		
			30	3.8	5755.000	5725 to 5850	Pass		
			40	3.8	5755.040	5725 to 5850	Pass		
			50	3.8	5755.000	5725 to 5850	Pass		
			55	3.8	5755.000	5725 to 5850	Pass		
		5795	20	3.5	5795.040	5725 to 5850	Pass		
				3.8	5795.120	5725 to 5850	Pass		
				4.2	5795.080	5725 to 5850	Pass		
			-20	3.8	5795.080	5725 to 5850	Pass		
			-10	3.8	5795.000	5725 to 5850	Pass		
			0	3.8	5795.040	5725 to 5850	Pass		
			10	3.8	5795.080	5725 to 5850	Pass		
			20	3.8	5795.000	5725 to 5850	Pass		
			30	3.8	5795.000	5725 to 5850	Pass		
			40	3.8	5795.080	5725 to 5850	Pass		
			50	3.8	5795.000	5725 to 5850	Pass		
			55	3.8	5795.080	5725 to 5850	Pass		
		802.11ac (VHT80)	SISO	5210	20	3.5	5210.075	5150 to 5250	Pass
						3.8	5210.075	5150 to 5250	Pass
						4.2	5210.075	5150 to 5250	Pass
					-20	3.8	5210.075	5150 to 5250	Pass
					-10	3.8	5210.075	5150 to 5250	Pass
					0	3.8	5210.075	5150 to 5250	Pass
10	3.8				5210.075	5150 to 5250	Pass		
20	3.8				5210.075	5150 to 5250	Pass		
30	3.8				5210.000	5150 to 5250	Pass		
40	3.8				5210.075	5150 to 5250	Pass		
50	3.8				5210.075	5150 to 5250	Pass		
55	3.8				5210.075	5150 to 5250	Pass		



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		5290	20	3.5	5290.075	5250 to 5350	Pass
				3.8	5290.075	5250 to 5350	Pass
				4.2	5290.075	5250 to 5350	Pass
			-20	3.8	5290.075	5250 to 5350	Pass
			-10	3.8	5290.075	5250 to 5350	Pass
			0	3.8	5290.075	5250 to 5350	Pass
			10	3.8	5290.000	5250 to 5350	Pass
			20	3.8	5290.075	5250 to 5350	Pass
			30	3.8	5290.075	5250 to 5350	Pass
			40	3.8	5290.150	5250 to 5350	Pass
			50	3.8	5530.075	5470 to 5725	Pass
			55	3.8	5290.000	5250 to 5350	Pass
		5530	20	3.5	5530.075	5470 to 5725	Pass
				3.8	5530.000	5470 to 5725	Pass
				4.2	5530.000	5470 to 5725	Pass
			-20	3.8	5530.075	5470 to 5725	Pass
			-10	3.8	5530.000	5470 to 5725	Pass
			0	3.8	5530.075	5470 to 5725	Pass
			10	3.8	5530.000	5470 to 5725	Pass
			20	3.8	5530.000	5470 to 5725	Pass
			30	3.8	5530.075	5470 to 5725	Pass
			40	3.8	5530.000	5470 to 5725	Pass
			50	3.8	5530.075	5470 to 5725	Pass
			55	3.8	5530.075	5470 to 5725	Pass
		5610	20	3.5	5610.075	5470 to 5725	Pass
				3.8	5610.075	5470 to 5725	Pass
				4.2	5610.075	5470 to 5725	Pass
			-20	3.8	5610.075	5470 to 5725	Pass
			-10	3.8	5610.075	5470 to 5725	Pass
			0	3.8	5610.075	5470 to 5725	Pass
			10	3.8	5610.075	5470 to 5725	Pass
			20	3.8	5610.075	5470 to 5725	Pass
			30	3.8	5610.075	5470 to 5725	Pass
			40	3.8	5610.075	5470 to 5725	Pass
			50	3.8	5610.000	5470 to 5725	Pass
			5775	20	3.8	5775.075	5725 to 5850
3.5	5775.075	5725 to 5850			Pass		
3.8	5775.075	5725 to 5850			Pass		
-20	4.2	5775.075		5725 to 5850	Pass		



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Compliance Certification Services (Kunshan) Inc.

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			-10	3.8	5775.075	5725 to 5850	Pass
			0	3.8	5775.075	5725 to 5850	Pass
			10	3.8	5775.075	5725 to 5850	Pass
			20	3.8	5775.075	5725 to 5850	Pass
			30	3.8	5775.075	5725 to 5850	Pass
			40	3.8	5775.075	5725 to 5850	Pass
			50	3.8	5775.075	5725 to 5850	Pass
			55	3.8	5775.075	5725 to 5850	Pass

- End of the Report -



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