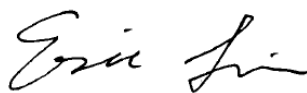


TEST REPORT

Application No.: KSCR2206000907AT
FCC ID: 2A2EX-LS005
Applicant: Luxshare Electronic Technology (Kunshan) Ltd.
Address of Applicant: No. 158, Jinchang Road, Jlnxi Town, Kunshan City, Jiangsu Province, China
Manufacturer: Luxshare Electronic Technology (Kunshan) Ltd.
Address of Manufacturer: No. 158, Jinchang Road, Jlnxi Town, Kunshan City, Jiangsu Province, China
Equipment Under Test (EUT):
EUT Name: WIFI5+BT5.2 Module
Model No.: LS005ONWCS
Trade Mark: LUXSHAREICT
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-06-02
Date of Test: 2022-06-04 to 2022-08-03
Date of Issue: 2022-08-04

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

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

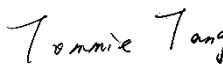
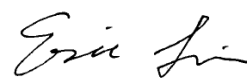


Eric Lin
Laboratory Manager



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

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



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.3V			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)	5190-5230	2
		802.11ac(VHT80)	5210	1
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4
		802.11n(HT40)/ac(VHT40)	5270-5310	2
		802.11ac(VHT80)	5290	1
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5700	11
		802.11n(HT40)/ac(VHT40)	5510-5670	5
		802.11ac(VHT80)	5530~5610	2
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2
		802.11ac(VHT80)	5775	1
Moudulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7 802.11ac: MCS0-9			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz; 802.11n(HT40)/ac(VHT40): 40MHz; 802.11ac(VHT80): 80MHz			
Antenna Type:	PCB Antenna			
Antenna Gain:	5150-5250MHz: 3.35dBi(Provided by the manufacturer) 5250-5350MHz: 3.71dBi(Provided by the manufacturer) 5470-5725MHz: 3.83dBi(Provided by the manufacturer) 5725-5850MHz: 3.08dBi(Provided by the manufacturer)			

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	L470	/
Notebook	LENOVO	Thinkpad T420	/
LRDI101_EVB_V0.1	Luxshare	/	/



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4.3 Measurement Uncertainty

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

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



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

4.5 Test Facility

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

• CNAS (No. CNAS L4354)

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

• A2LA (Certificate No. 2541.01)

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

• FCC (Designation Number: CN1172)

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

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

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

Company Number: 2324E

• VCCI (Member No.: 1938)

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

4.6 Deviation from Standards

None



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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
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	10/11/2021	10/10/2022
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	09/17/2021	09/16/2022
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	10/12/2021	10/11/2022
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/27/2021	08/26/2022
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	09/23/2021	09/22/2022
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	10/12/2021	10/11/2022
9	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/01/2021	03/31/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	10/11/2021	10/10/2022
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	10/18/2021	10/17/2022
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	10/26/2020	10/25/2022
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/22/2022	03/21/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMV-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 PCB Antenna and no consideration of replacement. The best case for 5150-5250MHz is 3.35dBi, for 5250-5350MHz is 3.71dBi, for 5470-5725MHz is 3.83dBi, for 5725-5850MHz is 3.08dBi.

Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

7.1 99% Bandwidth

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

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.8 °C Humidity: 43.3 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

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



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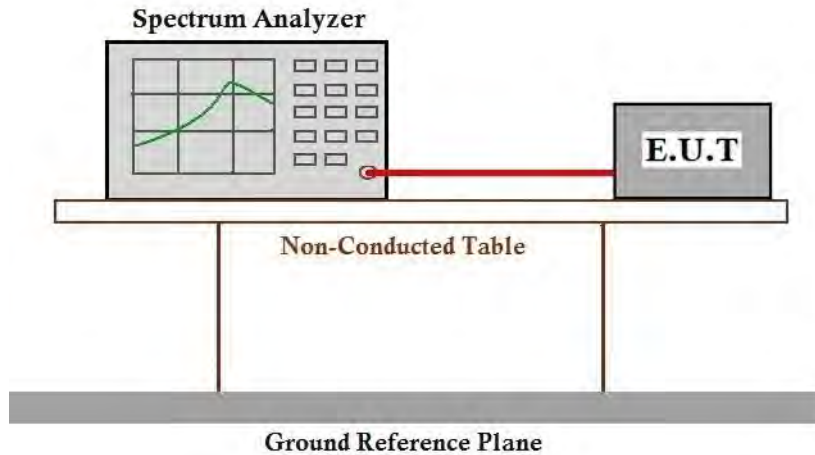
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		modulation and worse data rates. Only the data of worst case is recorded in the report.
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220600090704



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7.2 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

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



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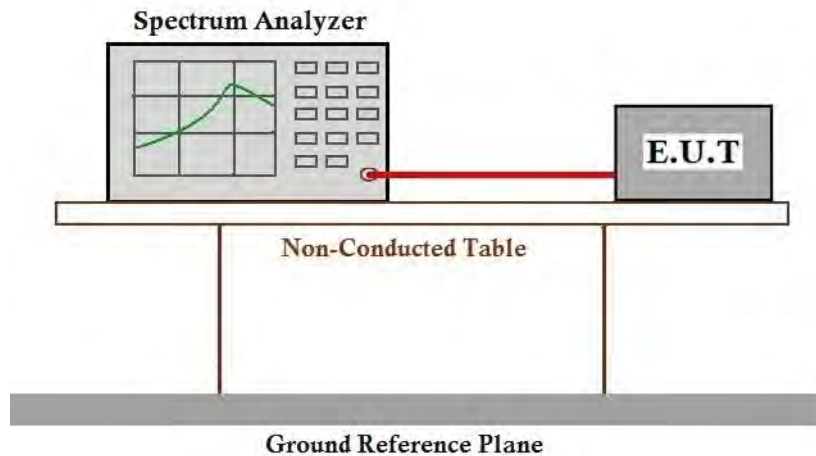
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

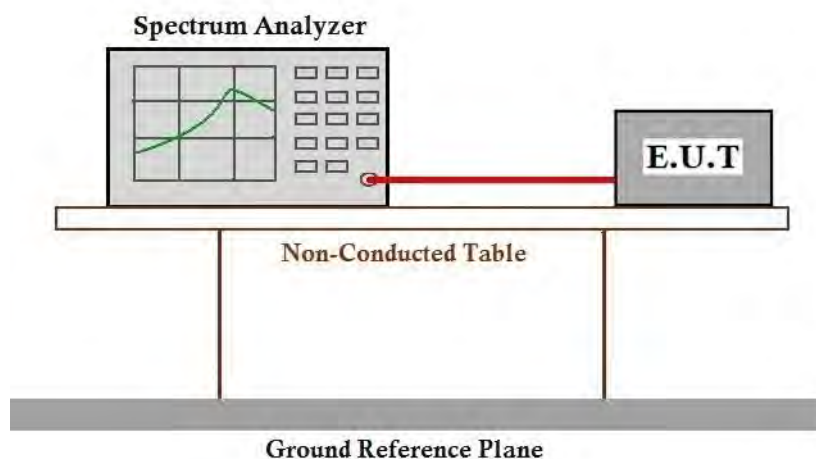
Temperature: 23.8 °C

Humidity: 43.2 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

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

7.3.3 Test Setup Diagram

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7.3.4 Measurement Procedure and Data

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7.4 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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C

Humidity: 43.2 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

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



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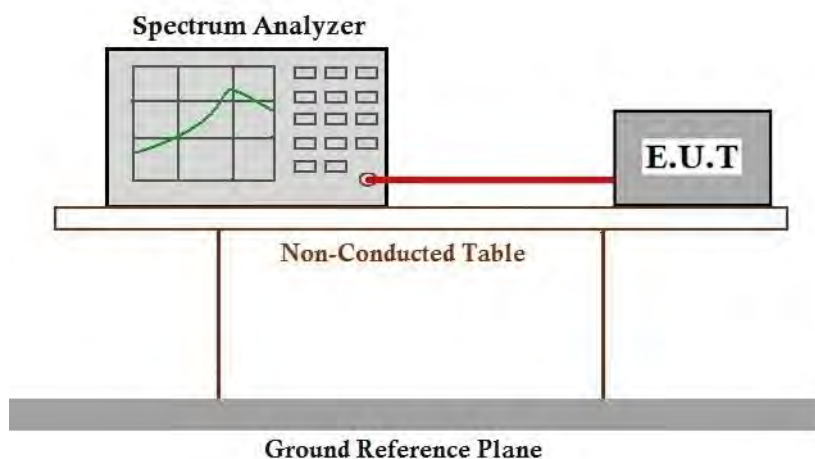
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Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is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

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Please Refer to Appendix D for KSCR220600090704



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7.5 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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

Humidity: 42.2 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

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



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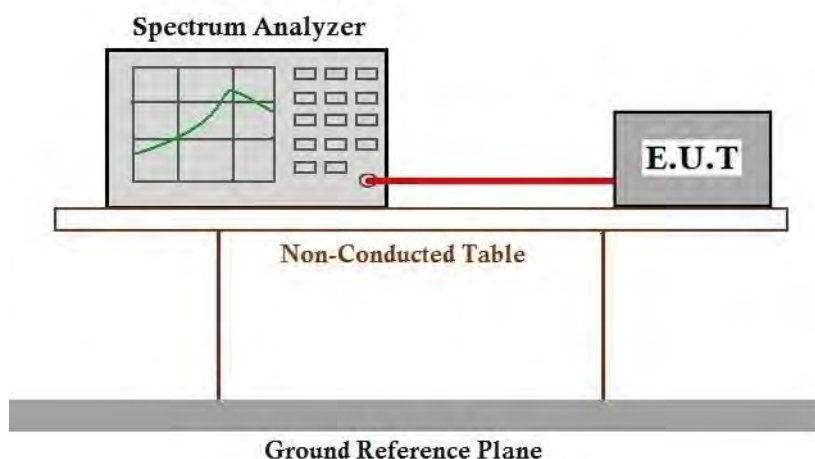
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		rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final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

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220600090704



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7.6 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 52.2 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

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



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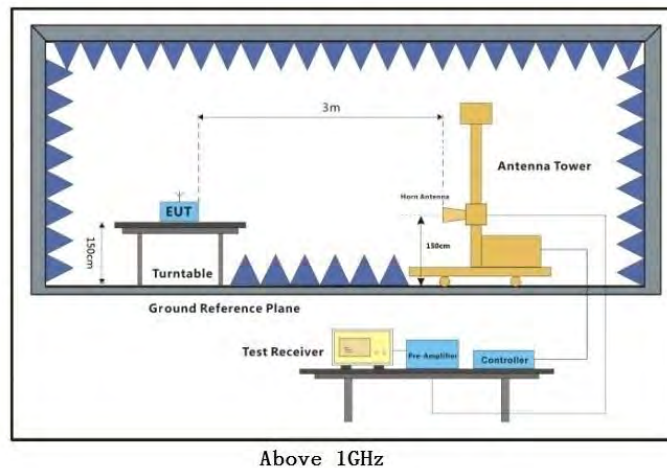
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		recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;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

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

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

Remark:

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



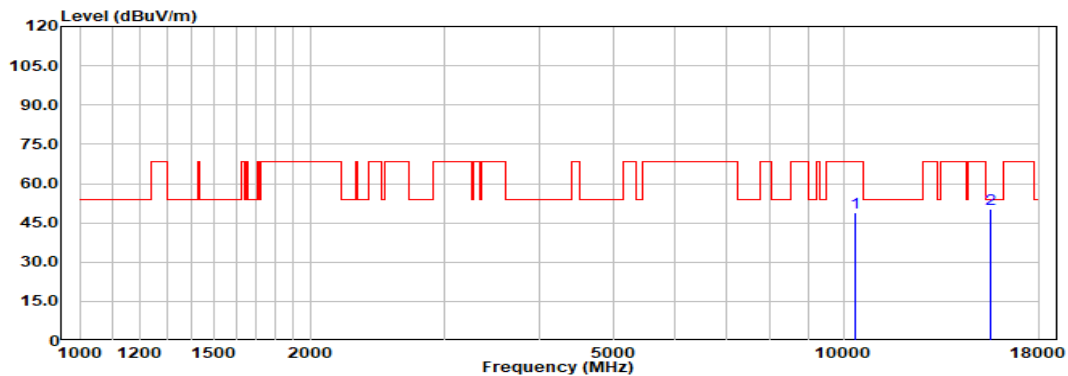
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	10360.000	12.58	-500.00	-532.78	581.86	49.08	68.30	-19.22		Peak	
2	15540.000	14.80	-500.00	-529.97	580.13	50.16	54.00	-3.84		Peak	



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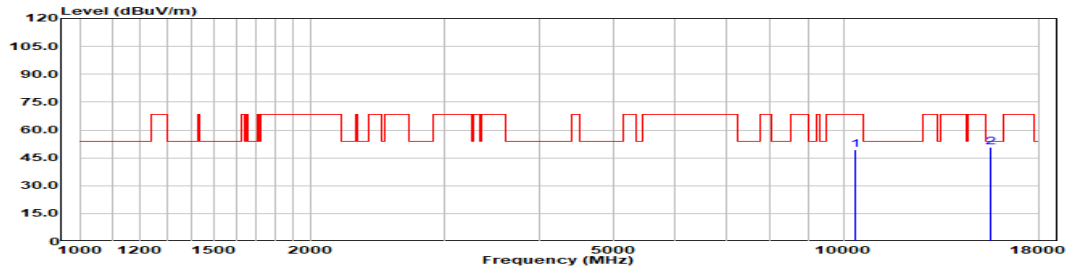
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Over Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10360.000	12.58	500.00	-532.78	582.16	49.38	68.30	-18.92		Peak
2	15540.000	14.80	500.00	-529.97	580.74	50.77	54.00	-3.23		Peak



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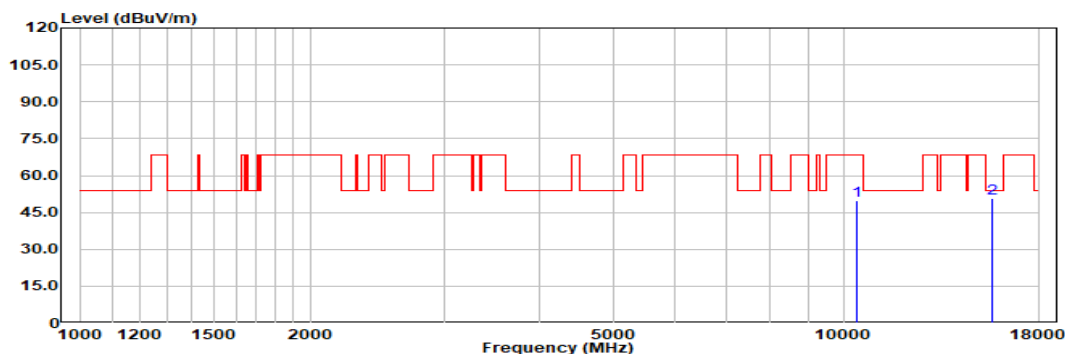
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	10400.000	12.58	-500.00	-532.78	582.55	49.77	68.30	-18.53		Peak	
2	15600.000	14.80	-500.00	-529.85	580.78	50.93	54.00	-3.07		Peak	



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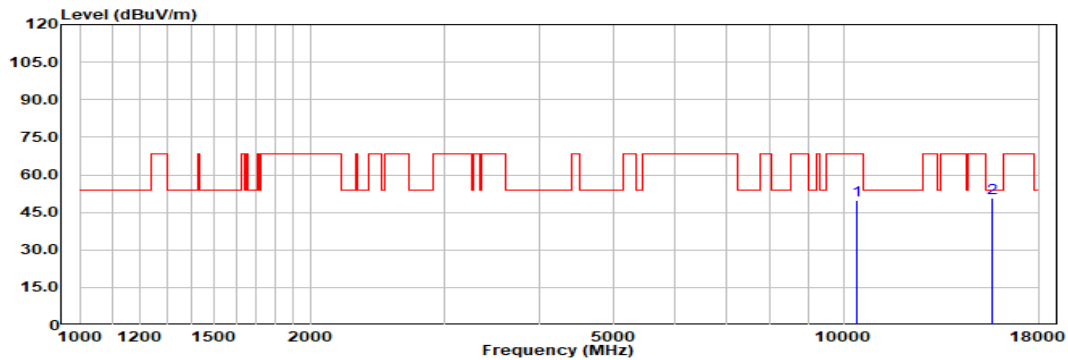
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1 10400.000	12.58	500.00	-532.78	582.61	49.83	68.30	-18.47		Peak
2 15600.000	14.80	500.00	-529.85	580.36	50.51	54.00	-3.49		Peak



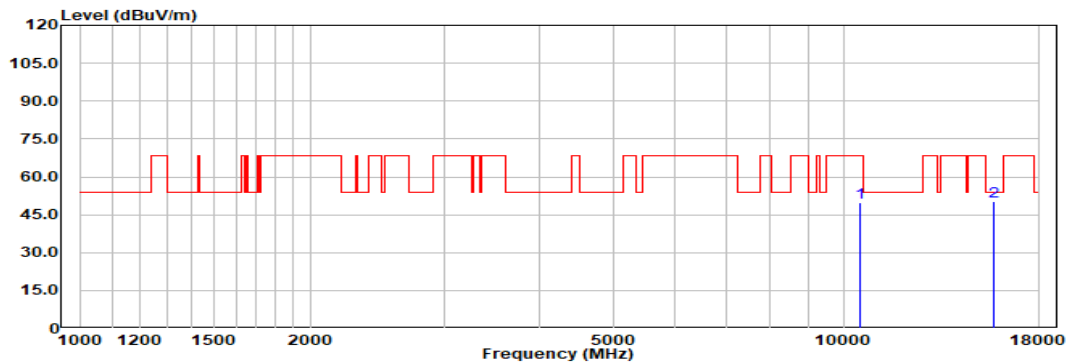
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G FCC	5G	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10480.000	12.60	-500.00	-532.78	582.56	49.78	68.30	-18.52	Peak	
2	15720.000	14.81	-500.00	-529.60	579.93	50.33	54.00	-3.67	Peak	



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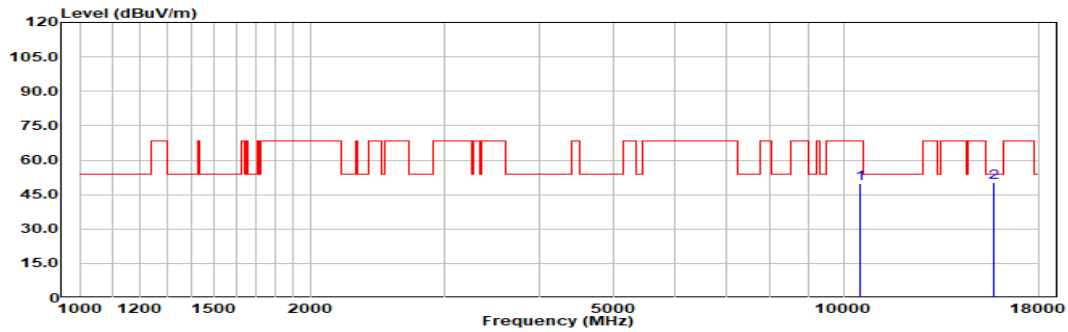
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	10480.000	12.60	-500.00	-532.78	582.77	49.99	68.30	-18.31	Peak		Peak
2	15720.000	14.81	-500.00	-529.60	579.82	50.22	54.00	-3.78	Peak		Peak



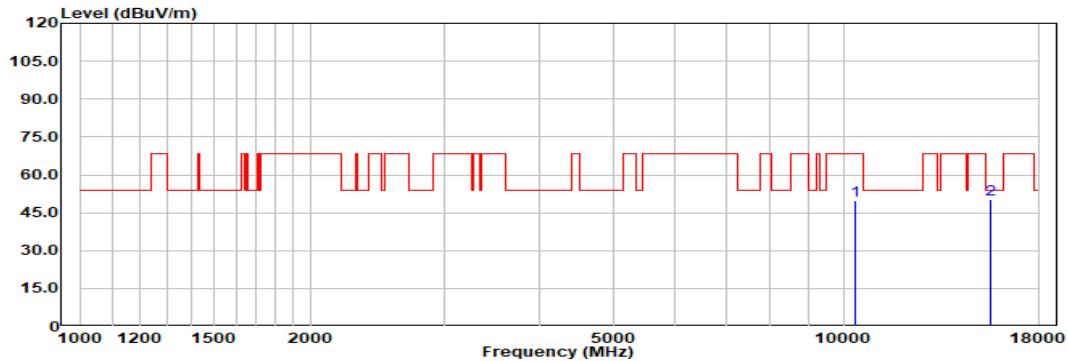
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10360.000	12.58	-500.00	-532.78	582.69	49.91	68.30	-18.39		Peak
2	15540.000	14.80	-500.00	-529.97	580.11	50.14	54.00	-3.86		Peak



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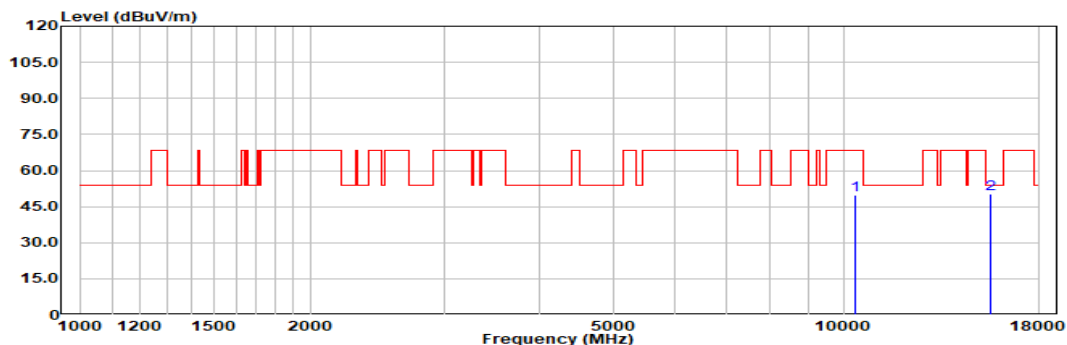
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10360.000	12.58	-500.00	-532.78	582.61	49.83	68.30	-18.47		Peak
2	15540.000	14.80	-500.00	-529.97	580.28	50.31	54.00	-3.69		Peak



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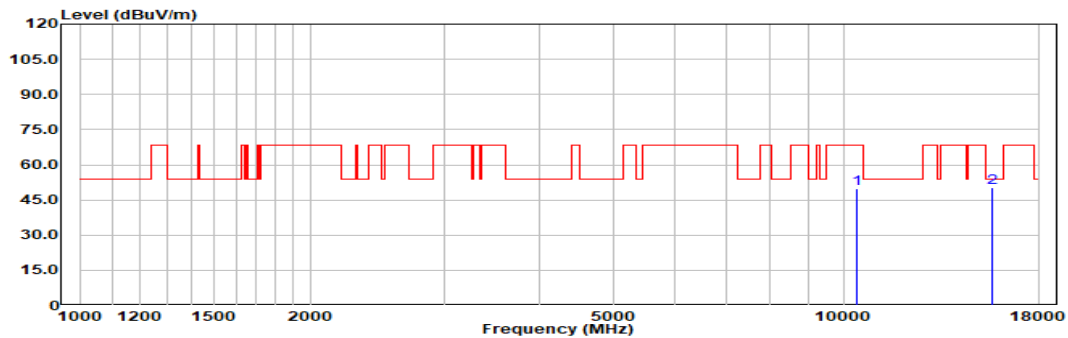
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10400.000	12.58	-500.00	-532.78	582.51	49.73	68.30	-18.57		Peak
2	15600.000	14.80	-500.00	-529.85	579.99	50.14	54.00	-3.86		Peak



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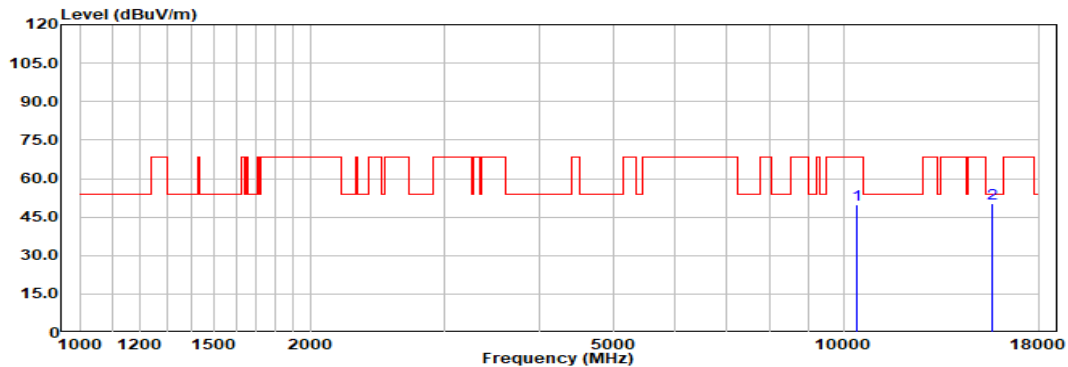
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10400.000	12.58	-500.00	-532.78	582.74	49.96	68.30	-18.34		Peak
2	15600.000	14.80	-500.00	-529.85	580.05	50.20	54.00	-3.80		Peak



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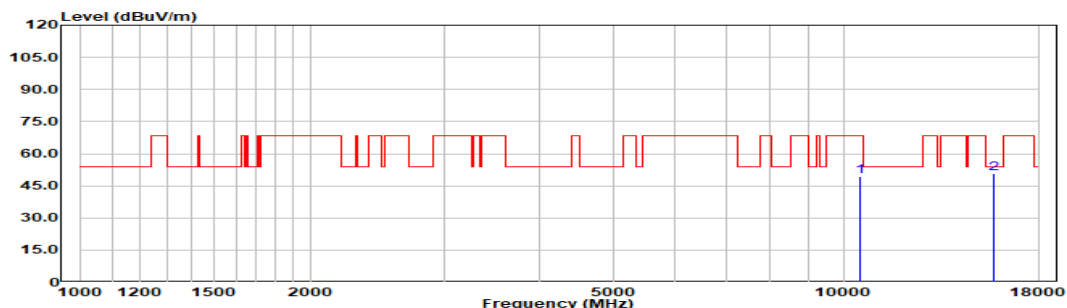
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	10480.000	12.60	-500.00	-532.78	582.13	49.35	68.30	-18.95	Peak		Peak
2	15720.000	14.81	-500.00	-529.60	580.36	50.76	54.00	-3.24	Peak		Peak



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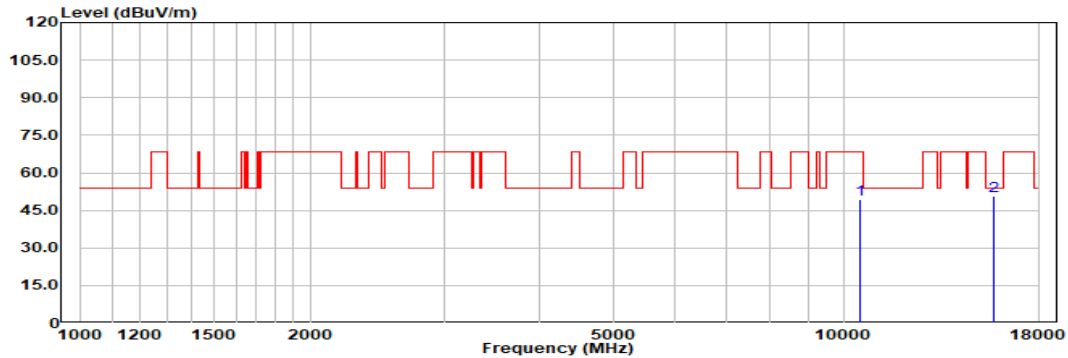
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1 10480.000	12.60	-500.00	-532.78	582.27	49.49	68.30	-18.81		Peak
2 15720.000	14.81	-500.00	-529.60	580.35	50.75	54.00	-3.25		Peak



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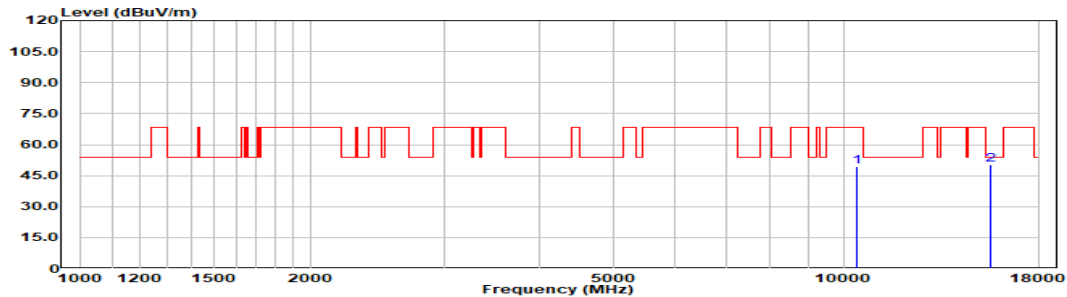
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10380.000	12.58	500.00	-532.78	582.13	49.35	68.30	-18.95		Peak
2	15570.000	14.80	500.00	-529.91	580.35	50.44	54.00	-3.56		Peak



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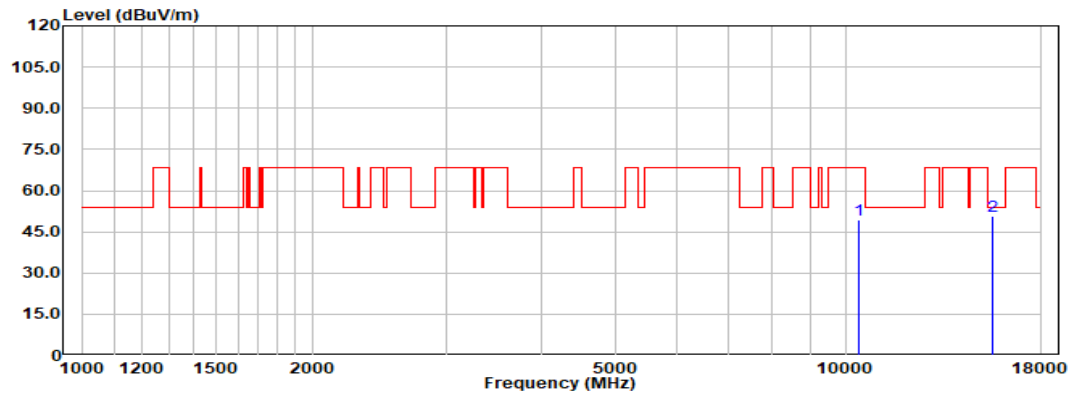
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1 10380.000	12.58	-500.00	-532.78	582.19	49.41	68.30	-18.89		Peak
2 15570.000	14.80	-500.00	-529.91	580.61	50.70	54.00	-3.30		Peak



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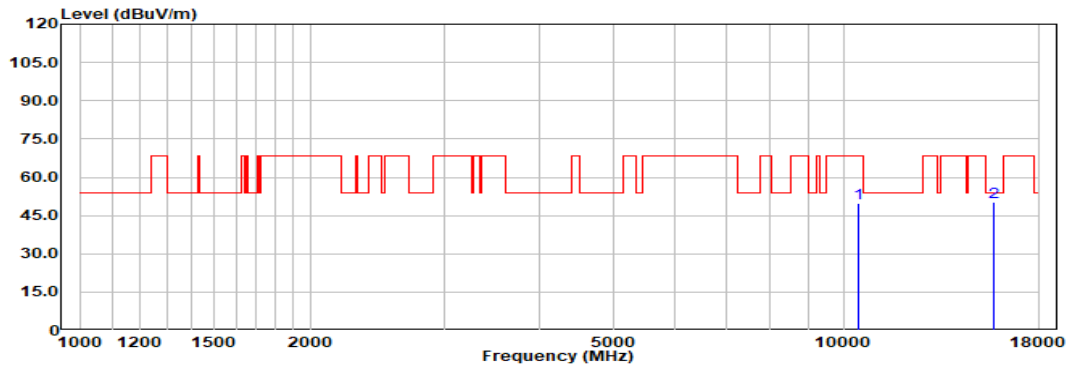
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10460.000	12.60	-500.00	-532.77	582.69	49.92	68.30	-18.38		Peak
2	15690.000	14.81	-500.00	-529.66	580.13	50.47	54.00	-3.53		Peak



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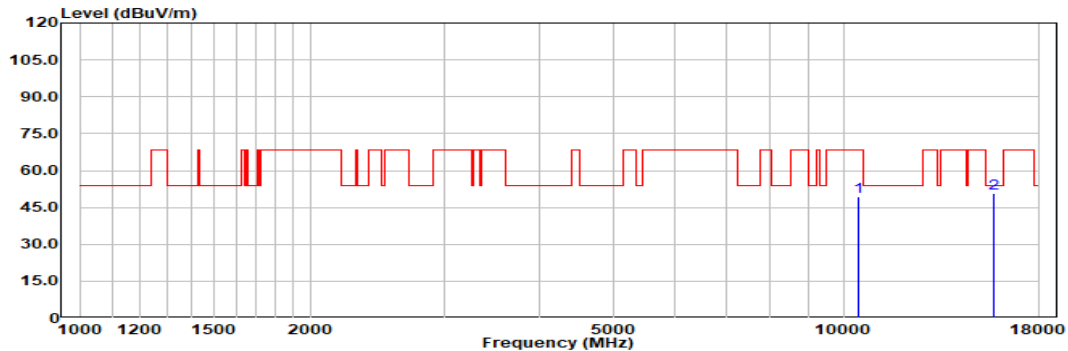
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	10460.000	12.60	-500.00	-532.77	582.24	49.47	68.30	-18.83		Peak	
2	15690.000	14.81	-500.00	-529.66	580.16	50.50	54.00	-3.50		Peak	



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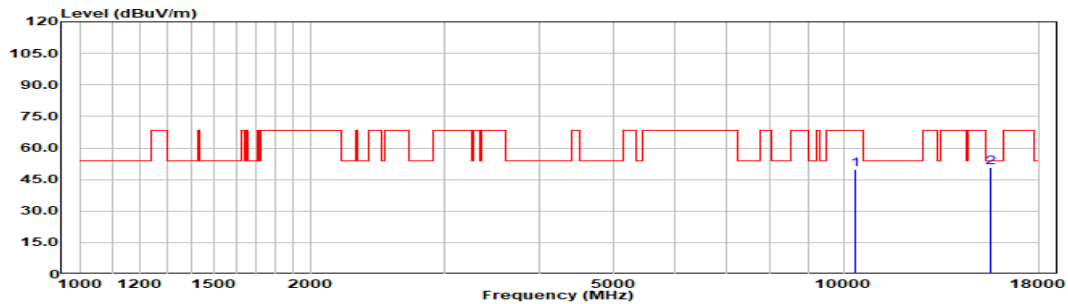
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	10360.000	12.58	-500.00	-532.78	582.63	49.85	68.30	-18.45	Peak
2	15540.000	14.80	-500.00	-529.97	580.65	50.68	54.00	-3.32	Peak



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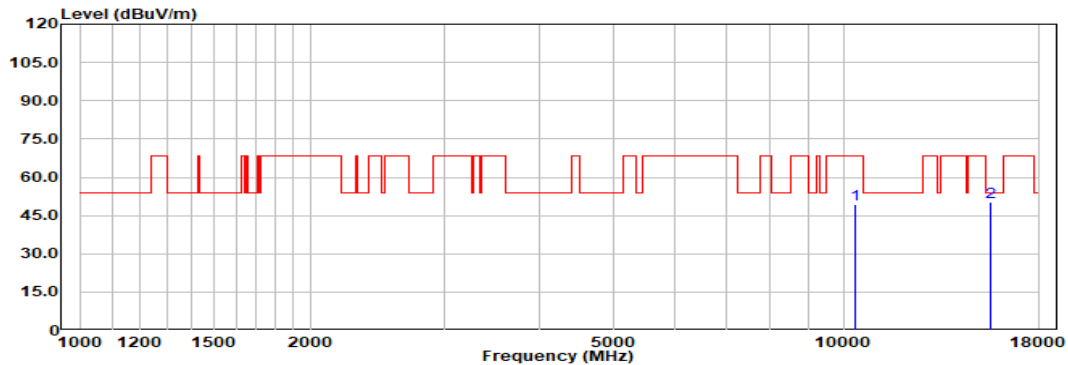
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10360.000	12.58	-500.00	-532.78	582.34	49.56	68.30	-18.74		Peak
2	15540.000	14.80	-500.00	-529.97	580.13	50.16	54.00	-3.84		Peak



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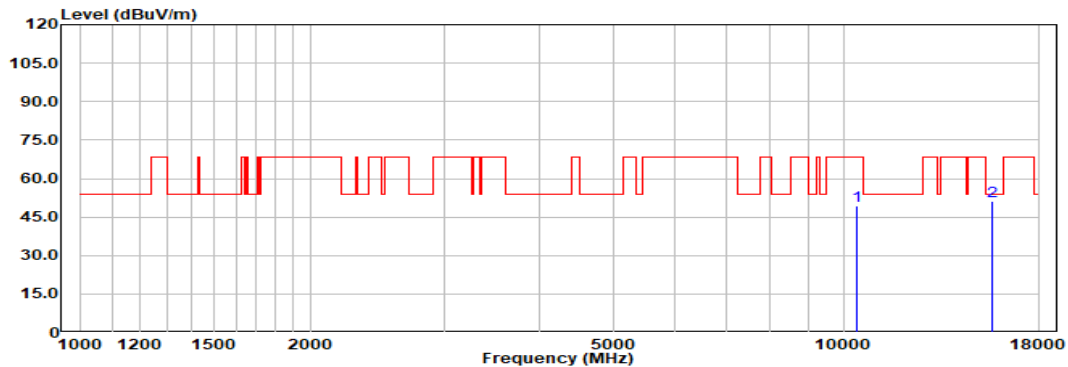
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10400.000	12.58	-500.00	-532.78	582.07	49.29	68.30	-19.01		Peak
2	15600.000	14.80	-500.00	-529.85	580.81	50.96	54.00	-3.04		Peak



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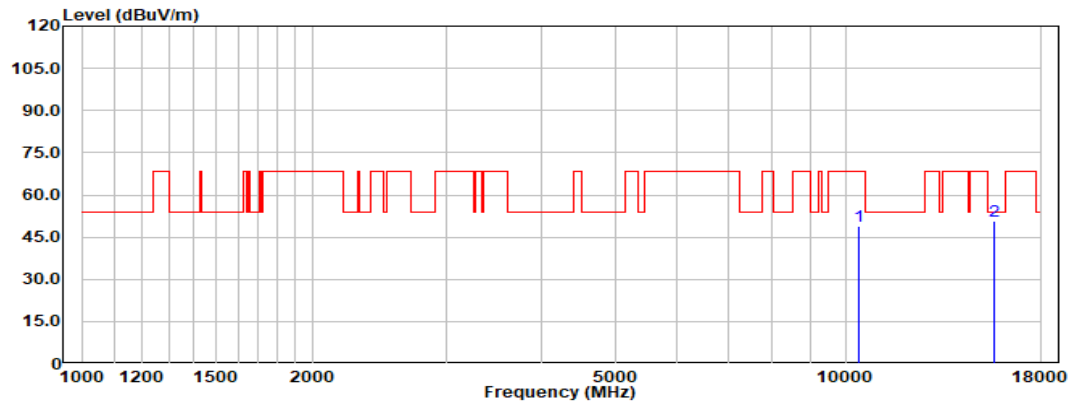
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1 10400.000	12.58	-500.00	-532.78	581.79	49.01	68.30	-19.29		Peak
2 15600.000	14.80	-500.00	-529.85	580.56	50.71	54.00	-3.29		Peak



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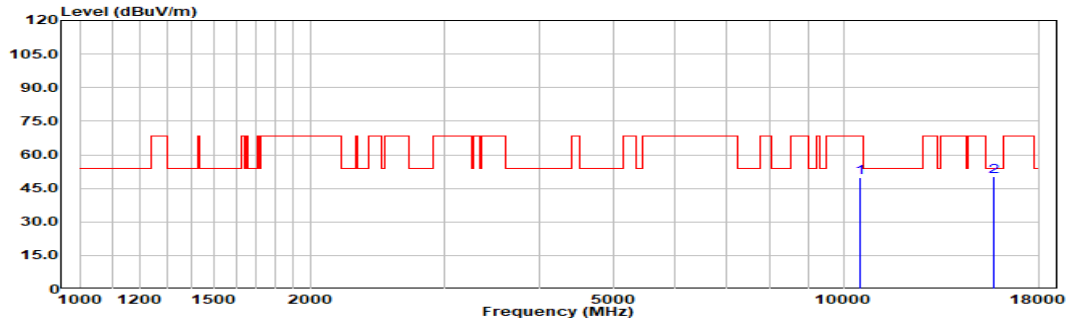
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10480.000	12.60	-500.00	-532.78	582.61	49.83	68.30	-18.47		Peak
2	15720.000	14.81	-500.00	-529.60	580.09	50.49	54.00	-3.51		Peak



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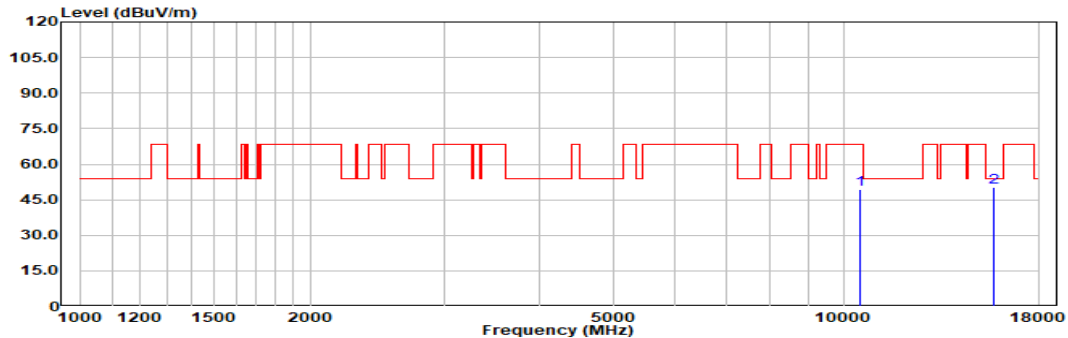
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10480.000	12.60	-500.00	-532.78	582.23	49.45	68.30	-18.85		Peak
2	15720.000	14.81	-500.00	-529.60	579.94	50.34	54.00	-3.66		Peak



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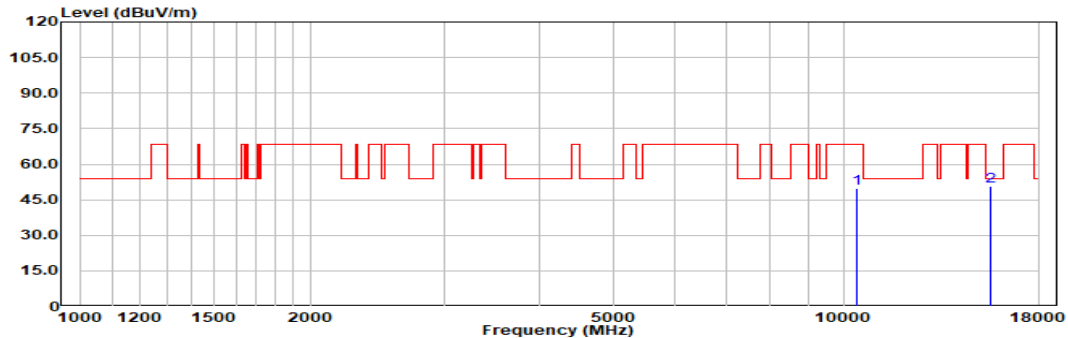
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1 10380.000	12.58	-500.00	-532.78	582.60	49.82	68.30	-18.48		Peak
2 15570.000	14.80	-500.00	-529.91	580.57	50.66	54.00	-3.34		Peak



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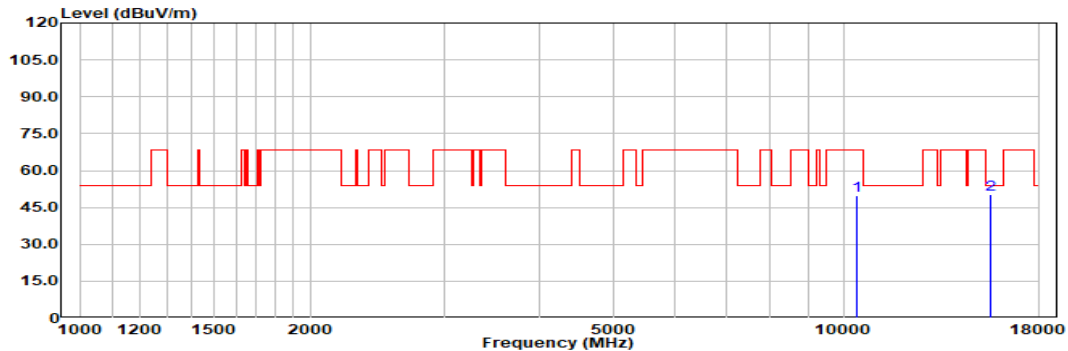
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC 5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	10380.000	12.58	-500.00	-532.78	582.38	49.60	68.30	-18.70	Peak
2	15570.000	14.80	-500.00	-529.91	579.98	50.07	54.00	-3.93	Peak



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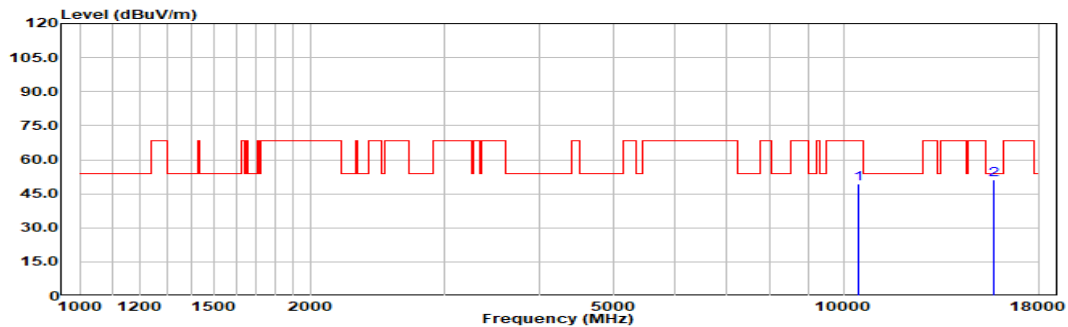
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	10460.000	12.60	-500.00	-532.77	581.98	49.21	68.30	-19.09	Peak
2	15690.000	14.81	-500.00	-529.66	580.66	51.00	54.00	-3.00	Peak



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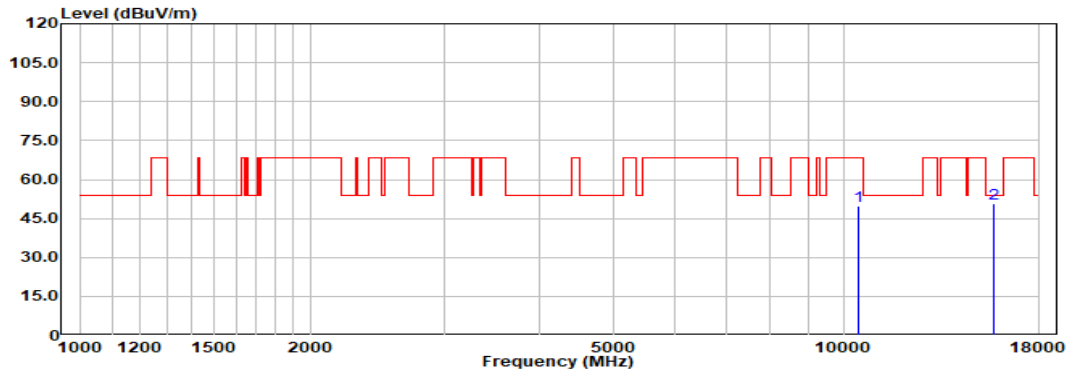
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1 10460.000	12.60	-500.00	-532.77	582.70	49.93	68.30	-18.37		Peak
2 15690.000	14.81	-500.00	-529.66	580.39	50.73	54.00	-3.27		Peak



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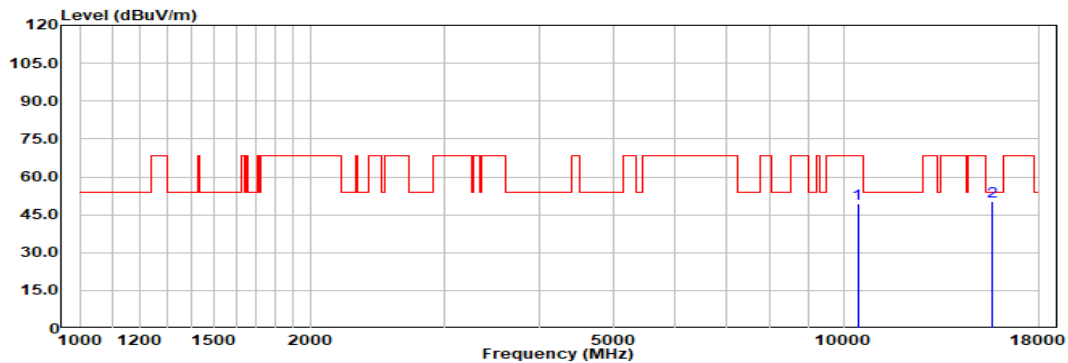
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10420.000	12.59	-500.00	-532.78	582.15	49.37	68.30	-18.93		Peak
2	15630.000	14.80	-500.00	-529.79	580.20	50.41	54.00	-3.59		Peak



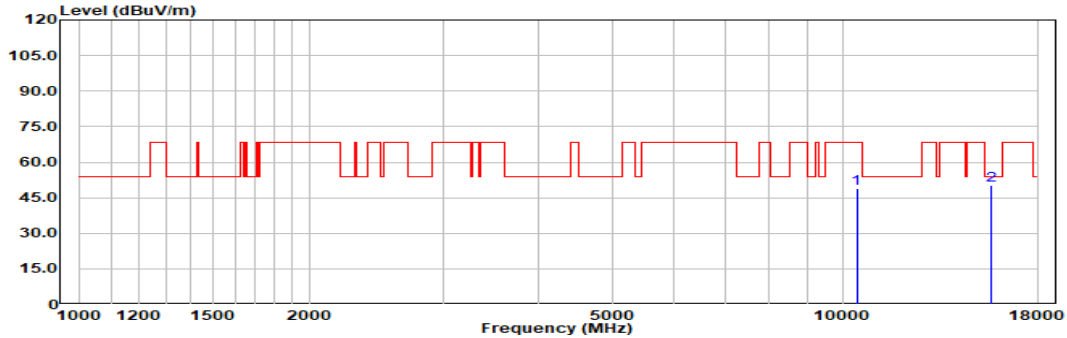
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	10420.000	12.59	-500.00	-532.78	581.87	49.09	68.30	-19.21		Peak
2	15630.000	14.80	-500.00	-529.79	580.08	50.29	54.00	-3.71		Peak



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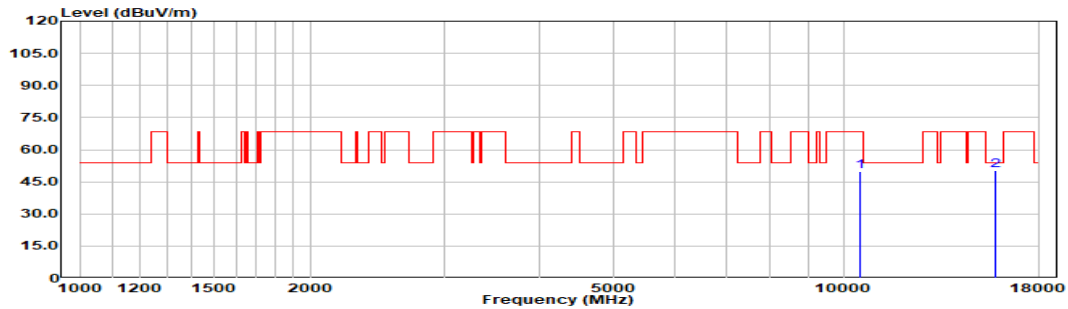
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC 5G	Over FCC 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m		
1	10520.000	12.61	-500.00	582.65	49.87	-18.43	Peak
2	15780.000	14.81	-500.00	579.54	50.07	-3.93	Peak



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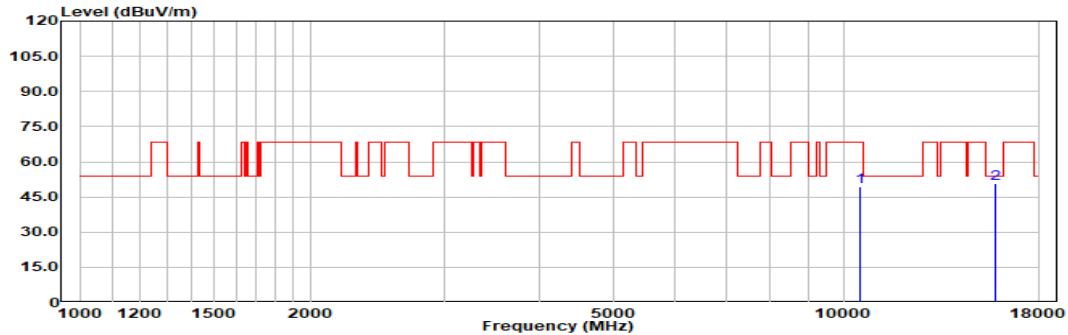
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10520.000	12.61	-500.00	582.03	49.25	68.30	-19.05		Peak	
2	15780.000	14.81	-500.00	580.40	50.93	54.00	-3.07		Peak	



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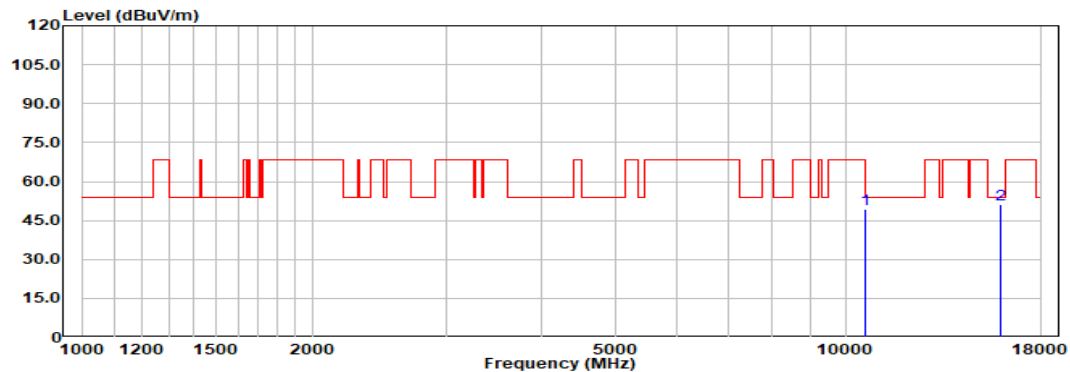
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	10600.000	12.62	-500.00	582.34	49.54	54.00	-4.46	Peak
2	15900.000	14.85	-500.00	580.19	51.00	54.00	-3.00	Peak



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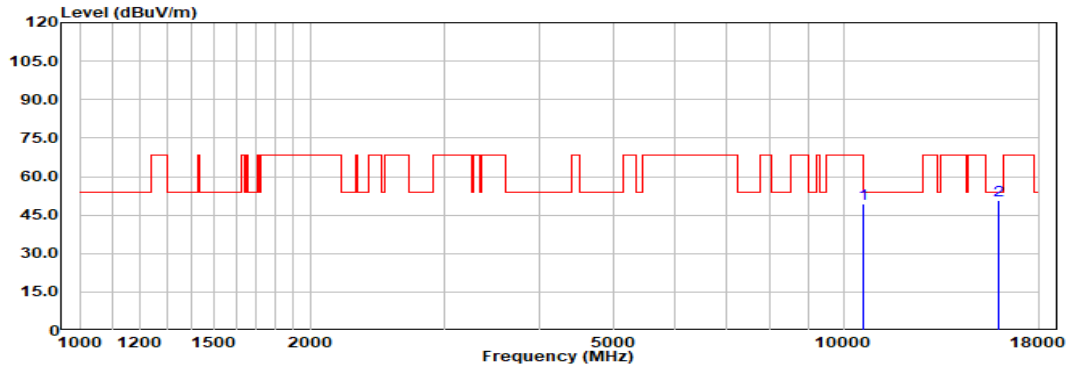
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10600.000	12.62	-500.00	581.96	49.16	54.00	-4.84	Peak		
2	15900.000	14.85	-500.00	579.97	50.78	54.00	-3.22	Peak		



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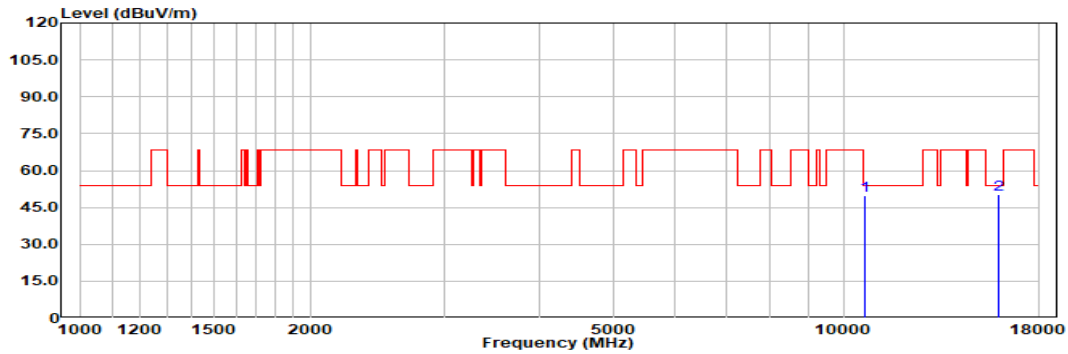
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10640.000	12.63	-500.00	582.62	49.81	54.00	-4.19	Peak		
2	15960.000	14.90	-500.00	579.06	50.04	54.00	-3.96	Peak		



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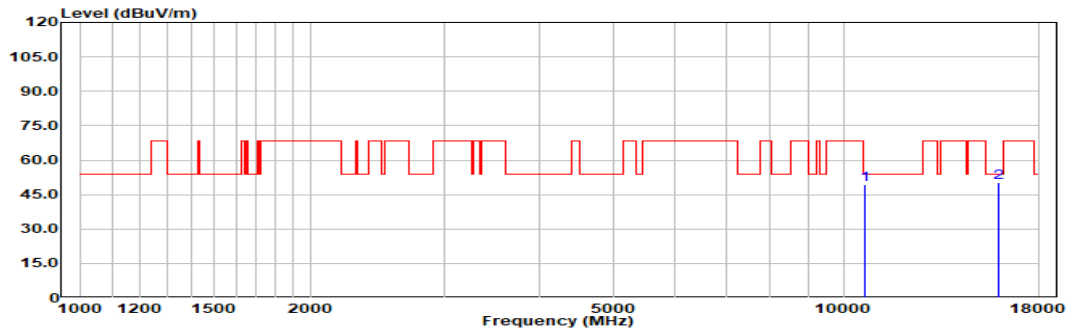
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10640.000	12.63	-500.00	582.10	49.29	54.00	-4.71		Peak
2	15960.000	14.90	-500.00	579.28	50.26	54.00	-3.74		Peak



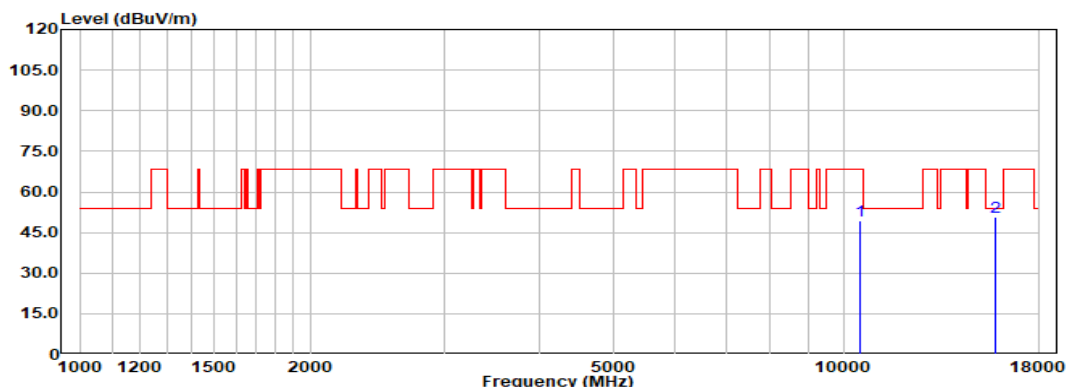
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10520.000	12.61	-500.00	581.99	49.21	68.30	-19.09		Peak
2	15780.000	14.81	-500.00	580.13	50.66	54.00	-3.34		Peak



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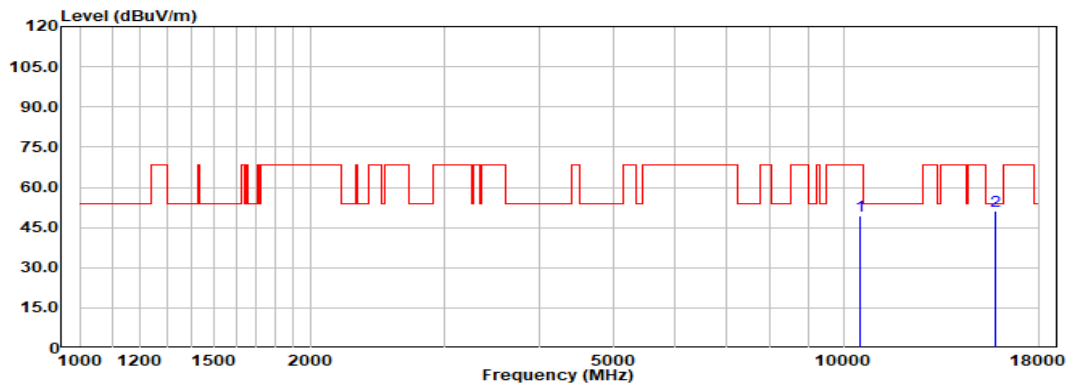
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10520.000	12.61	-500.00	581.96	49.18	68.30	-19.12	Peak		
2	15780.000	14.81	-500.00	580.42	50.95	54.00	-3.05	Peak		



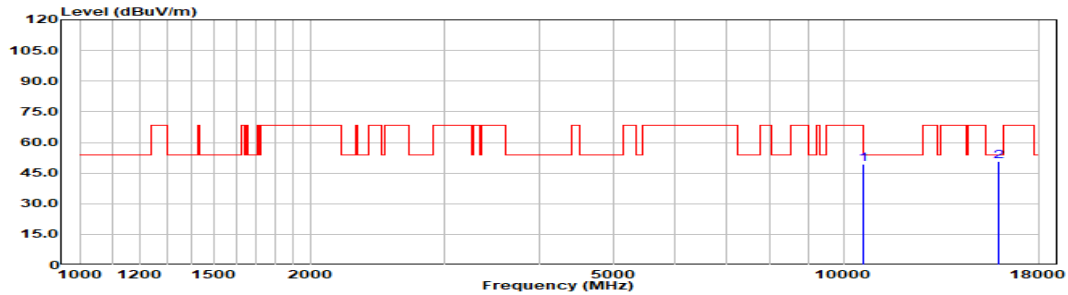
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10600.000	12.62	-500.00	582.30	49.50	54.00		-4.50	Peak	
2	15900.000	14.85	-500.00	579.81	50.62	54.00		-3.38	Peak	



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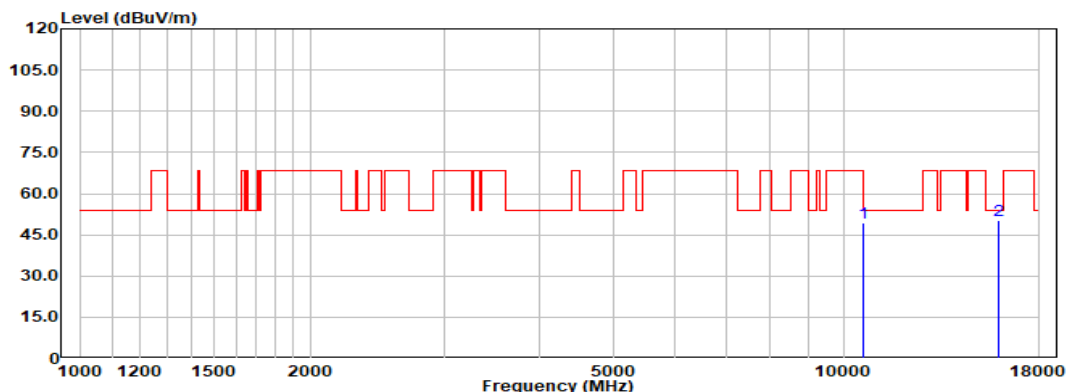
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10600.000	12.62	-500.00	582.19	49.39	54.00	-4.61		Peak
2	15900.000	14.85	-500.00	579.61	50.42	54.00	-3.58		Peak



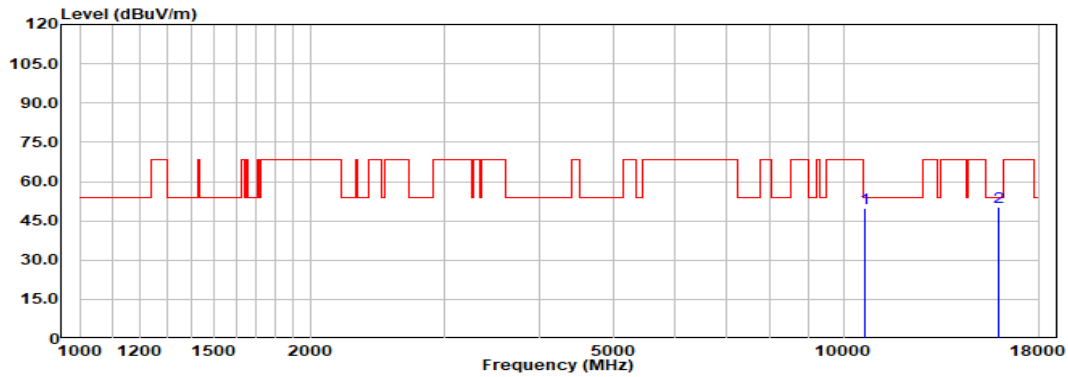
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10640.000	12.63	-500.00	582.52	49.71	54.00	-4.29	Peak	
2	15960.000	14.90	-500.00	579.15	50.13	54.00	-3.87	Peak	



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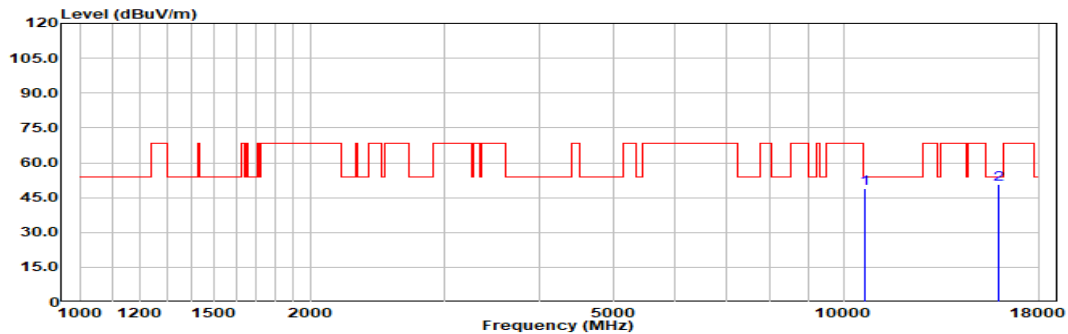
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10640.000	12.63	-500.00	581.81	49.00	54.00	-5.00		Peak
2	15960.000	14.90	-500.00	579.87	50.85	54.00	-3.15		Peak



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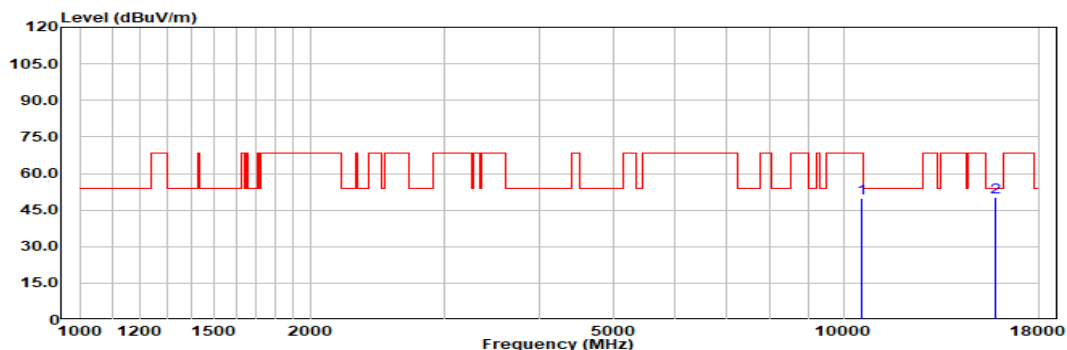
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
MHz	dB	dB/m	dBuV	dBuV/m					
1 10540.000	12.61	-500.00	582.74	49.95	68.30	-18.35	Peak		
2 15810.000	14.81	-500.00	579.55	50.14	54.00	-3.86	Peak		



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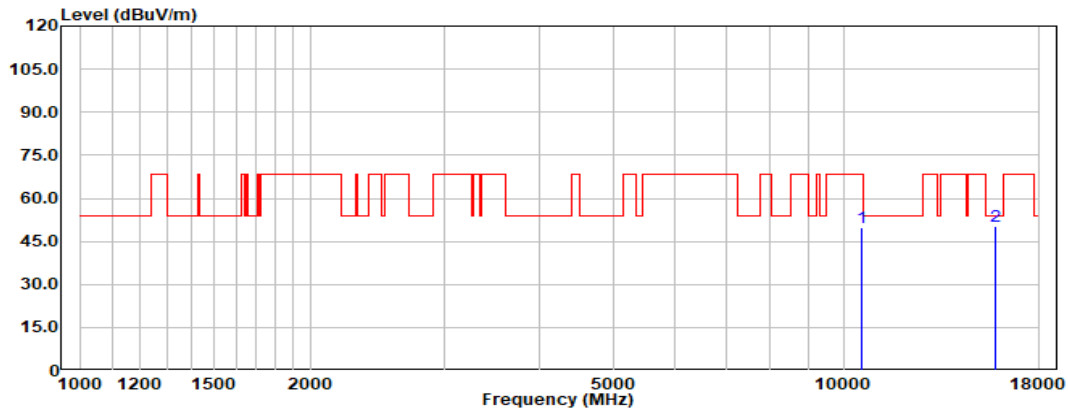
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10540.000	12.61	-500.00	582.74	49.95	68.30	-18.35	Peak		
2	15810.000	14.81	-500.00	579.56	50.15	54.00	-3.85	Peak		



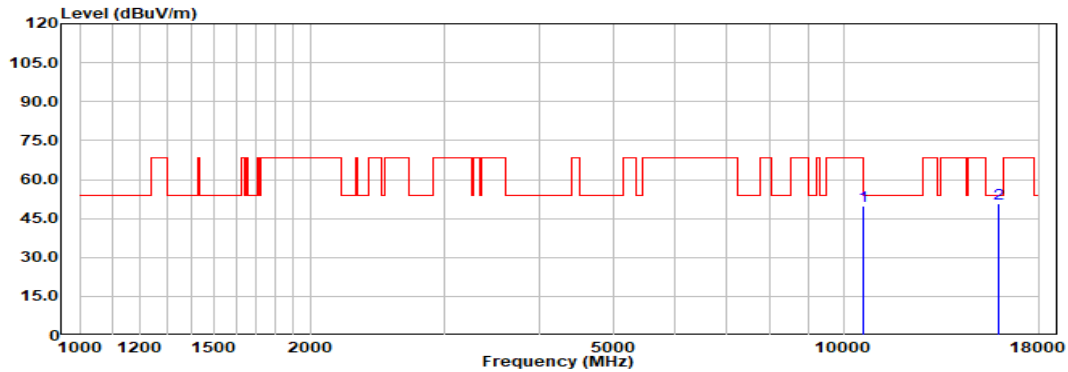
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	10620.000	12.62	-500.00	582.42	49.61	54.00	-4.39	Peak
2	15930.000	14.87	-500.00	579.67	50.56	54.00	-3.44	Peak



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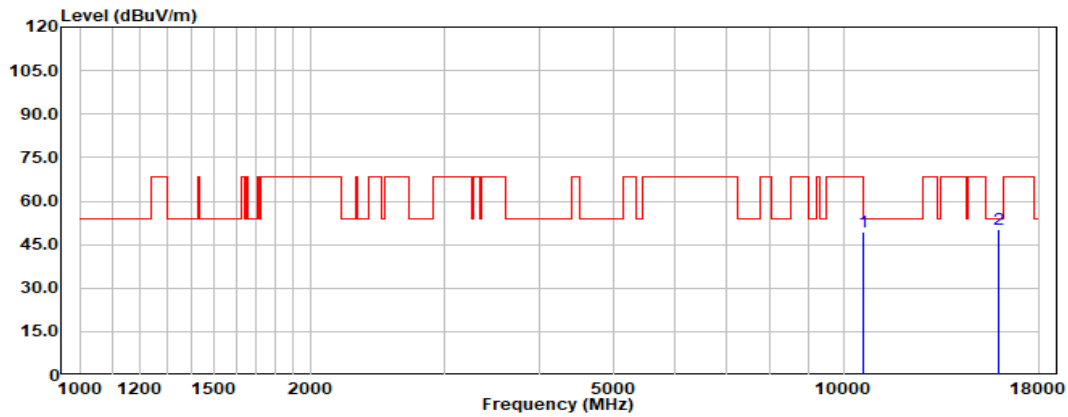
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10620.000	12.62	-500.00	582.26	49.45	54.00	-4.55	Peak		
2	15930.000	14.87	-500.00	579.35	50.24	54.00	-3.76	Peak		



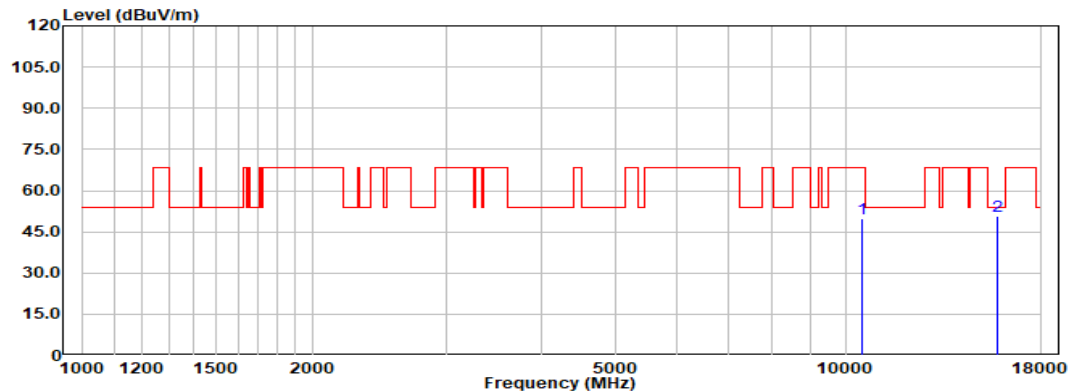
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dBuV	dBuV/m				
1 10520.000	12.61-500.00	582.67	49.89	68.30	-18.41	Peak		
2 15780.000	14.81-500.00	580.07	50.60	54.00	-3.40	Peak		



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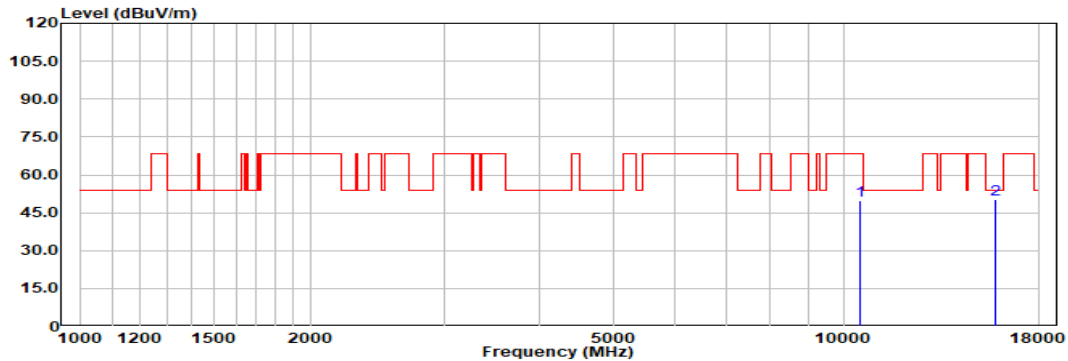
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10520.000	12.61	-500.00	582.49	49.71	68.30	-18.59		Peak
2	15780.000	14.81	-500.00	579.74	50.27	54.00	-3.73		Peak



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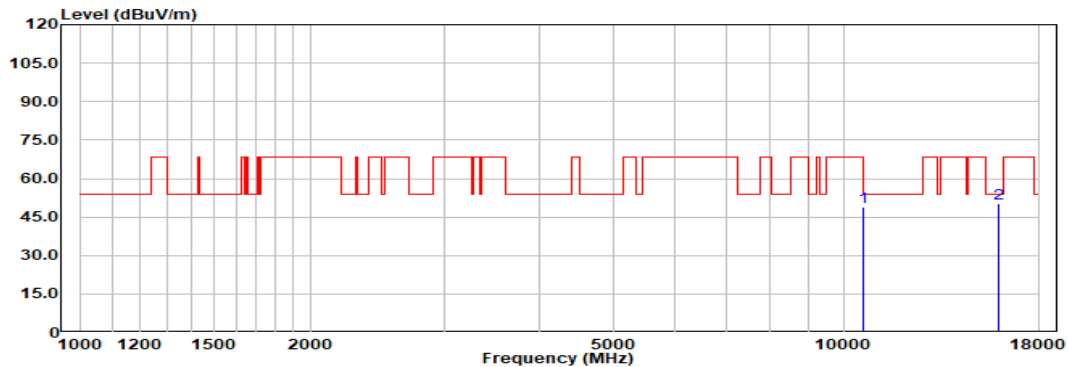
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10600.000	12.62	-500.00	581.92	49.12	54.00	-4.88	Peak		
2	15900.000	14.85	-500.00	579.29	50.10	54.00	-3.90	Peak		



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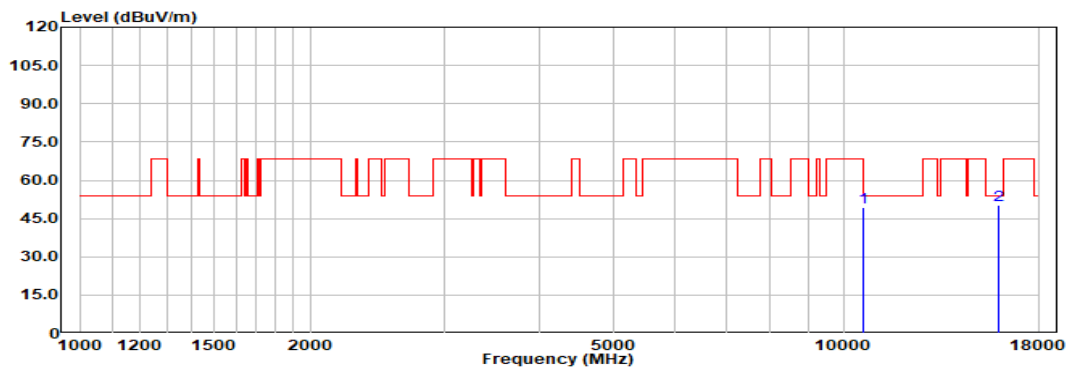
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
MHz	dB	dB/m	dBuV	dBuV/m					
1 10600.000	12.62	-500.00	582.04	49.24	54.00	-4.76	Peak		
2 15900.000	14.85	-500.00	579.38	50.19	54.00	-3.81	Peak		



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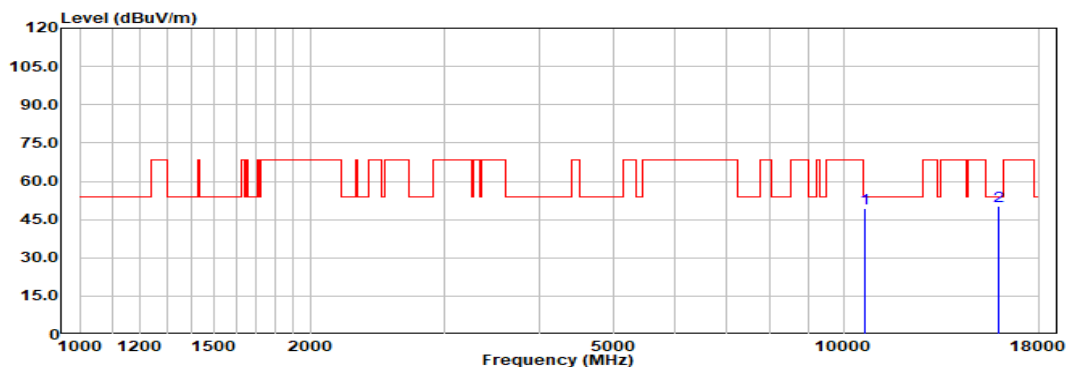
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10640.000	12.63	-500.00	582.32	49.51	54.00	-4.49		Peak
2	15960.000	14.90	-500.00	579.29	50.27	54.00	-3.73		Peak



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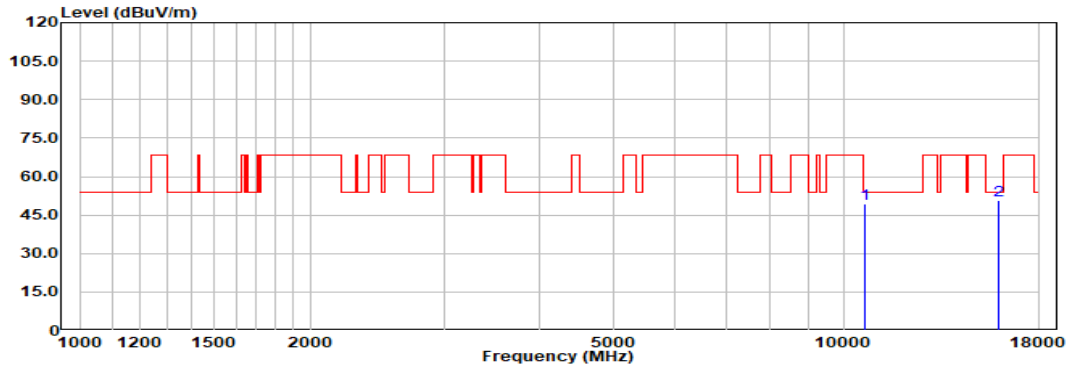
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10640.000	12.63	-500.00	582.17	49.36	54.00	-4.64	Peak		
2	15960.000	14.90	-500.00	579.83	50.81	54.00	-3.19	Peak		



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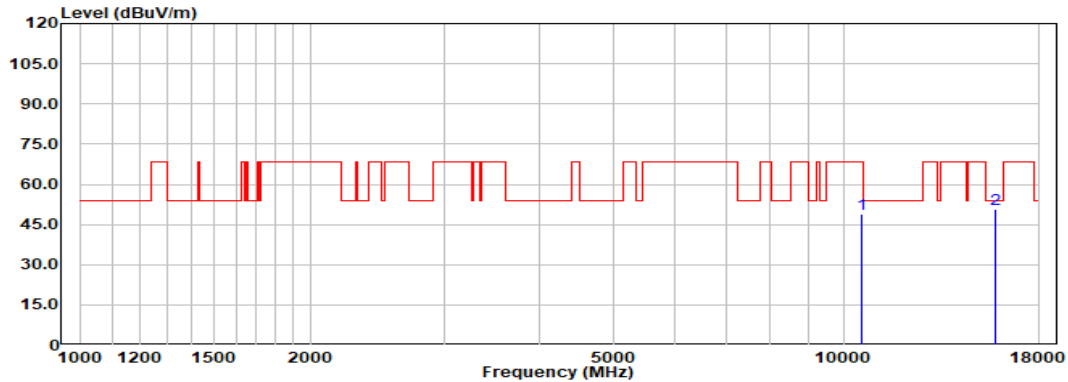
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10540.000	12.61	-500.00	581.89	49.10	68.30	-19.20	Peak		
2	15810.000	14.81	-500.00	580.32	50.91	54.00	-3.09	Peak		



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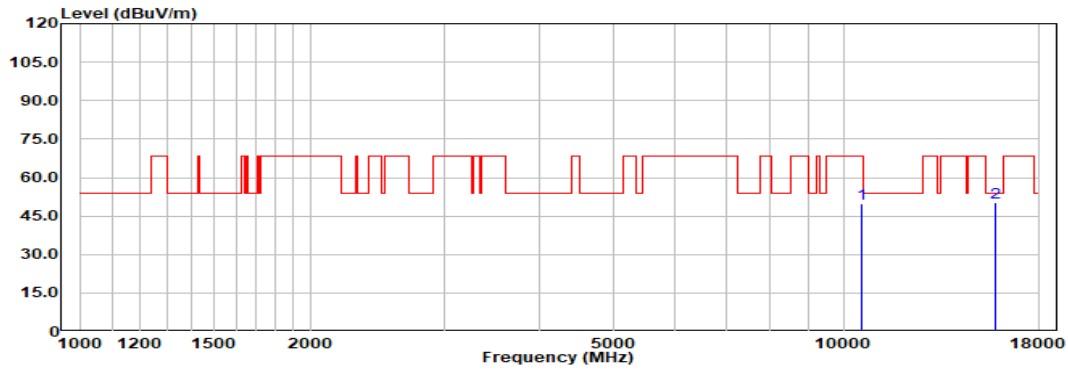
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10540.000	12.61	-500.00	582.72	49.93	68.30	-18.37		Peak
2	15810.000	14.81	-500.00	579.49	50.08	54.00	-3.92		Peak



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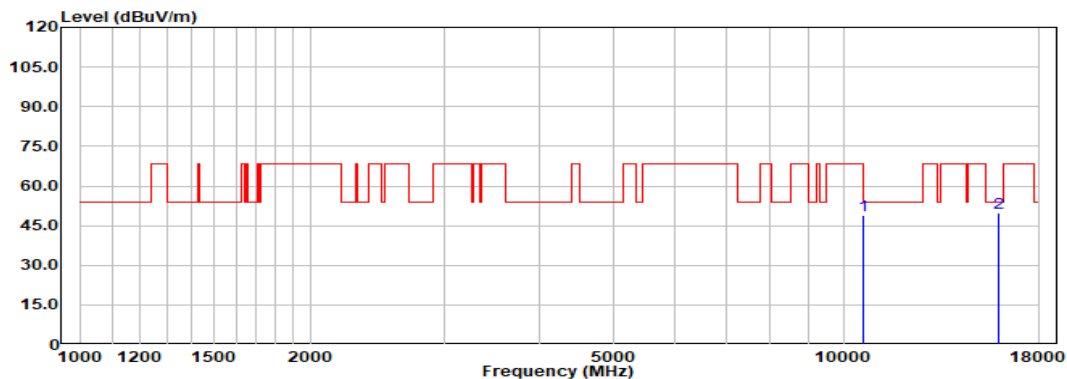
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	FCC 5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10620.000	12.62	-500.00	581.94	49.13	54.00	-4.87	Peak	
2	15930.000	14.87	-500.00	579.13	50.02	54.00	-3.98	Peak	



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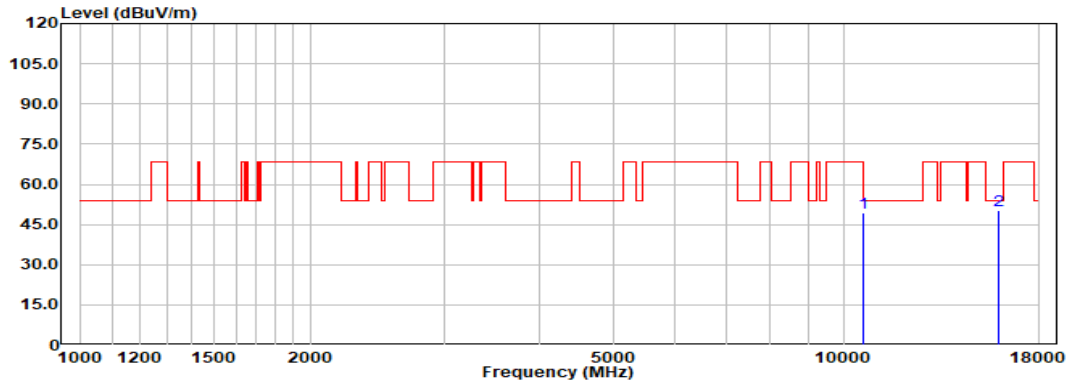
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10620.000	12.62	-500.00	582.09	49.28	54.00	-4.72	Peak		
2	15930.000	14.87	-500.00	579.18	50.07	54.00	-3.93	Peak		



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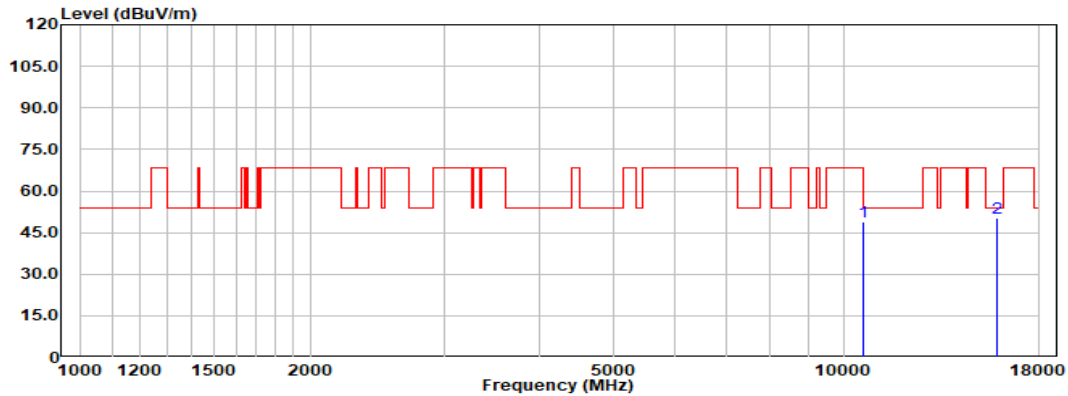
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10580.000	12.62-500.00	581.83	49.04	68.30	-19.26	Peak		
2	15870.000	14.82-500.00	579.55	50.27	54.00	-3.73	Peak		



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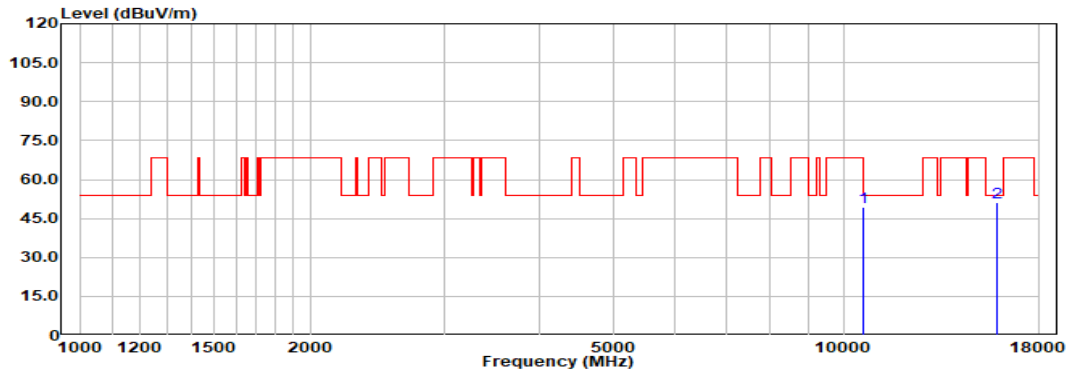
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	10580.000	12.62	-500.00	582.17	49.38	68.30	-18.92	Peak
2	15870.000	14.82	-500.00	580.26	50.98	54.00	-3.02	Peak



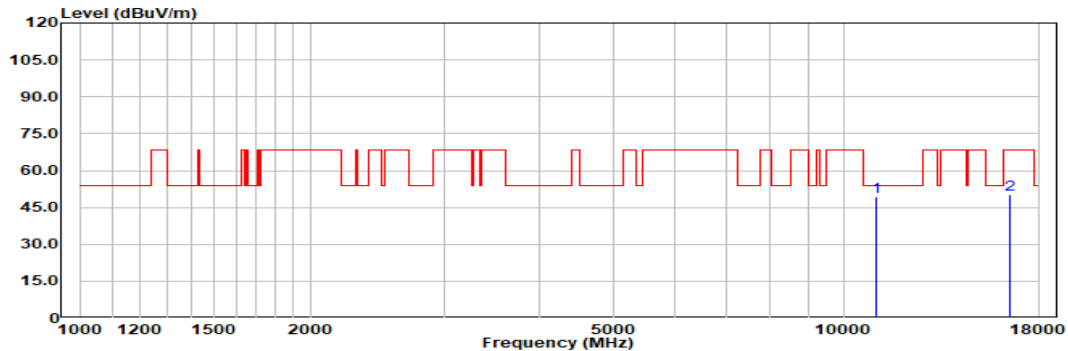
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11000.000	12.77	-500.00	582.01	49.20	54.00	-4.80		Peak
2	16500.000	15.42	-500.00	578.72	50.35	68.30	-17.95		Peak



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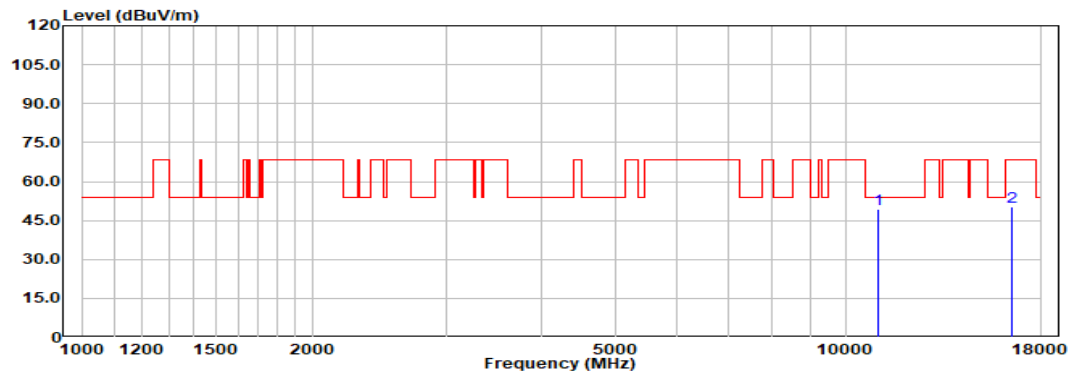
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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11000.000	12.77	-500.00	582.37	49.56	54.00	-4.44	Peak
2	16500.000	15.42	-500.00	578.75	50.38	68.30	-17.92	Peak



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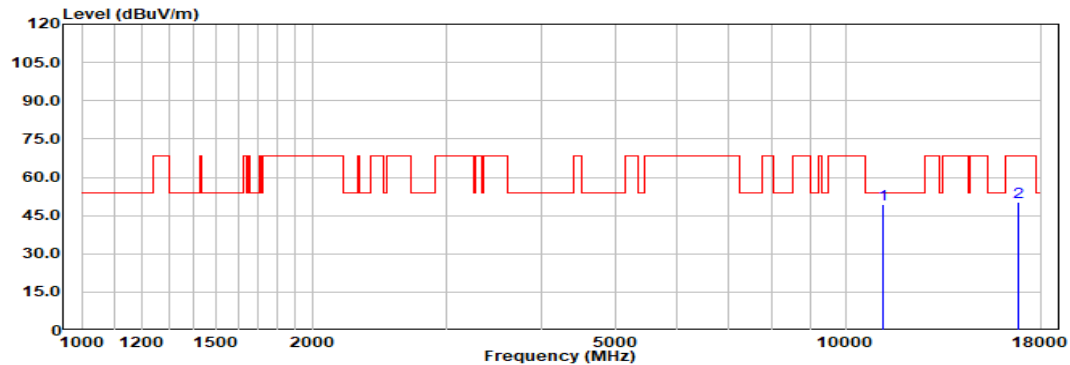
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11200.000	12.89	-500.00	582.11	49.28	54.00	-4.72	Peak		
2	16800.000	15.71	-500.00	578.59	50.43	68.30	-17.87	Peak		



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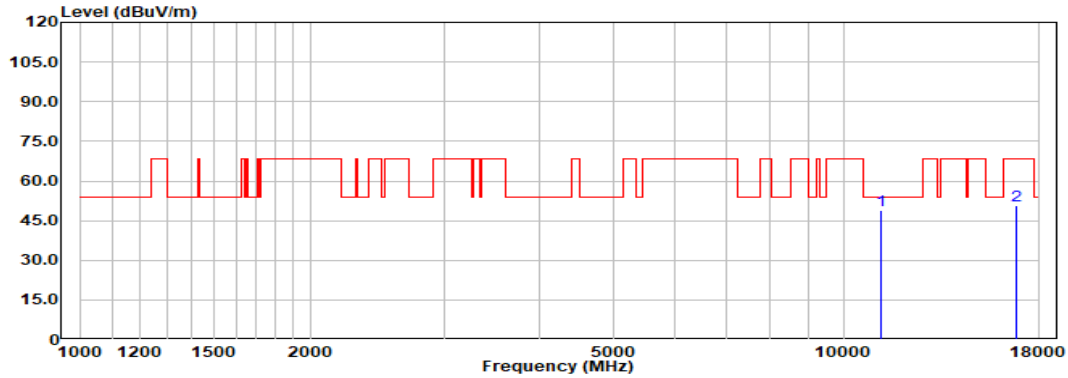
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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m						
1	11200.000	12.89	-500.00	581.84	49.01	54.00	-4.99	Peak			
2	16800.000	15.71	-500.00	578.70	50.54	68.30	-17.76	Peak			



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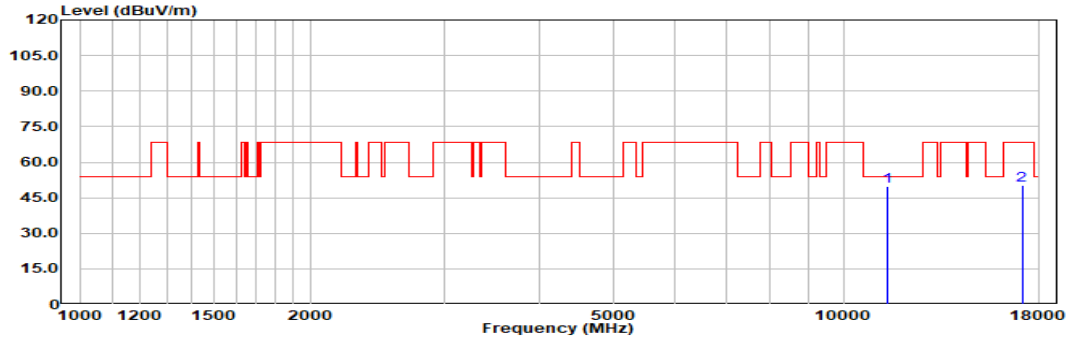
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11400.000	13.02	-500.00	582.78	49.93	54.00	-4.07		Peak	
2	17100.000	16.00	-500.00	578.18	50.36	68.30	-17.94		Peak	



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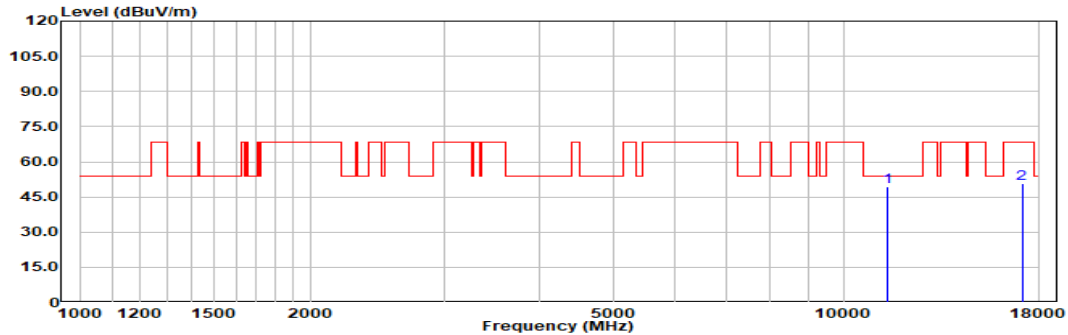
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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11400.000	13.02	-500.00	582.26	49.41	54.00	-4.59		Peak	
2	17100.000	16.00	-500.00	578.70	50.88	68.30	-17.42		Peak	



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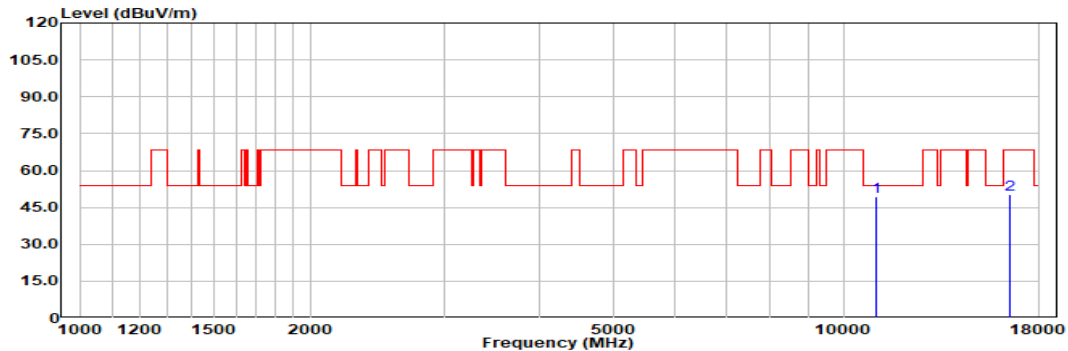
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11000.000	12.77	-500.00	582.05	49.24	54.00	-4.76	Peak		
2	16500.000	15.42	-500.00	578.80	50.43	68.30	-17.87	Peak		



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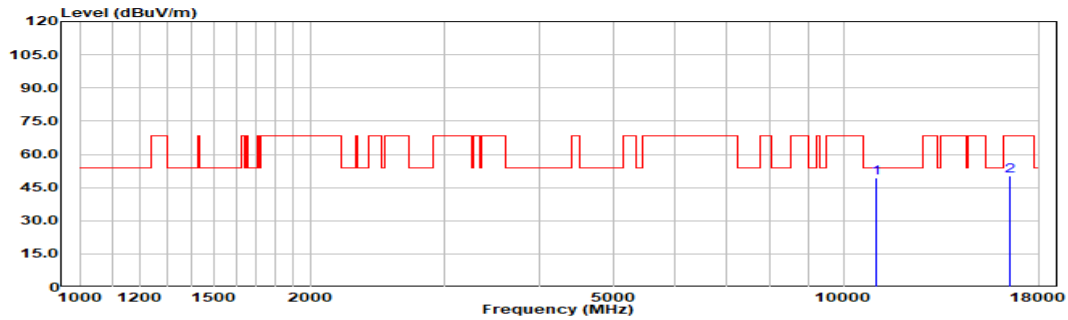
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11000.000	12.77	-500.00	582.25	49.44	54.00	-4.56	Peak		
2	16500.000	15.42	-500.00	578.71	50.34	68.30	-17.96	Peak		



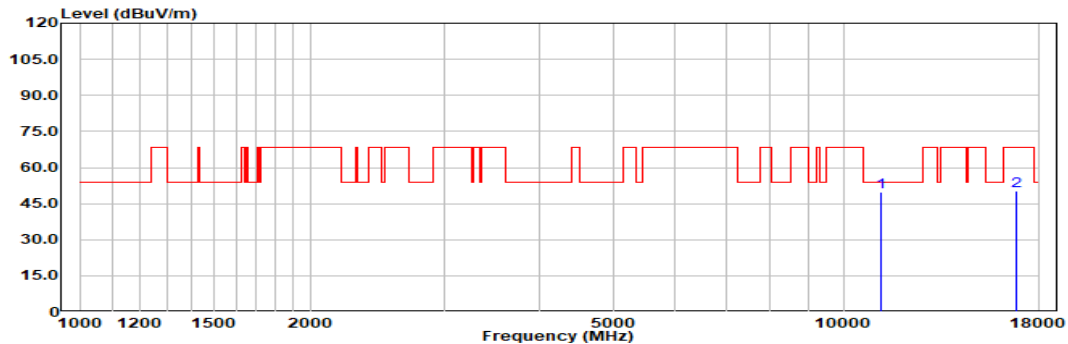
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11200.000	12.89	-500.00	582.80	49.97	54.00	-4.03	Peak
2	16800.000	15.71	-500.00	578.46	50.30	68.30	-18.00	Peak



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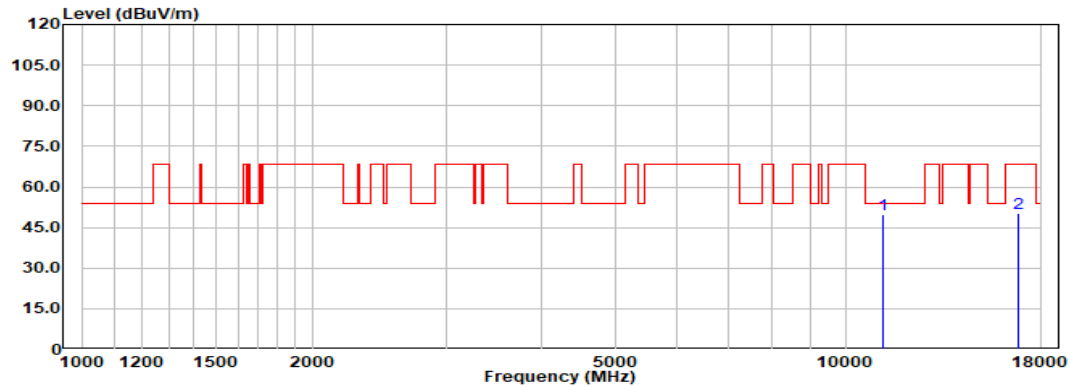
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11200.000	12.89	-500.00	582.74	49.91	54.00	-4.09	Peak		
2	16800.000	15.71	-500.00	578.52	50.36	68.30	-17.94	Peak		



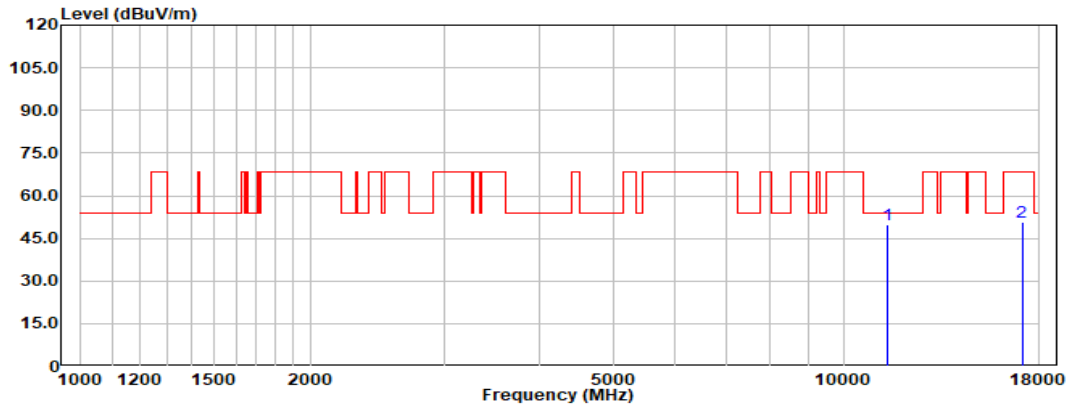
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11400.000	13.02	-500.00	582.65	49.80	54.00	-4.20	Peak		
2	17100.000	16.00	-500.00	578.43	50.61	68.30	-17.69	Peak		



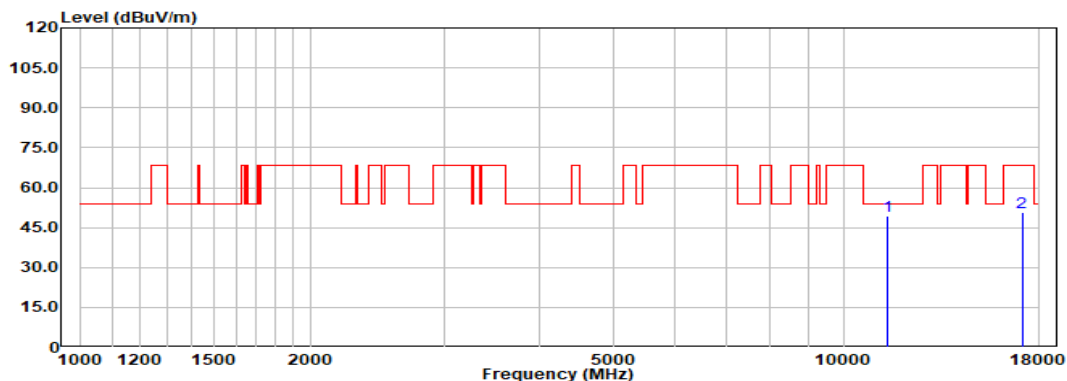
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	FCC 5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11400.000	13.02	-500.00	582.23	49.38	54.00	-4.62	Peak	
2	17100.000	16.00	-500.00	578.39	50.57	68.30	-17.73	Peak	



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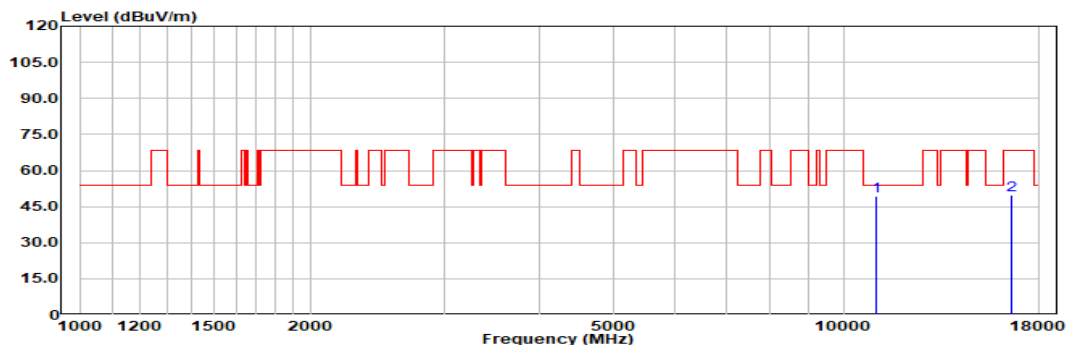
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11020.000	12.78	-500.00	582.17	49.36	54.00	-4.64	Peak	
2	16530.000	15.45	-500.00	578.37	50.02	68.30	-18.28	Peak	



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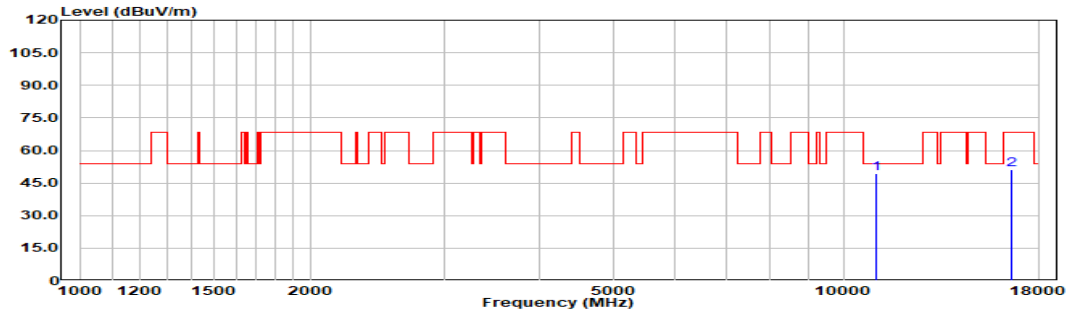
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11020.000	12.78	-500.00	582.03	49.22	54.00	-4.78		Peak
2	16530.000	15.45	-500.00	579.32	50.97	68.30	-17.33		Peak



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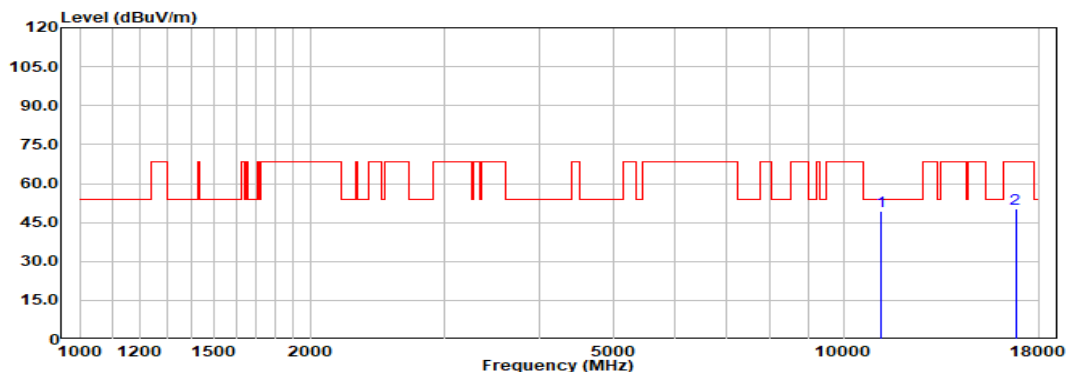
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11180.000	12.88	-500.00	582.03	49.20	54.00	-4.80	Peak
2	16770.000	15.68	-500.00	578.37	50.18	68.30	-18.12	Peak



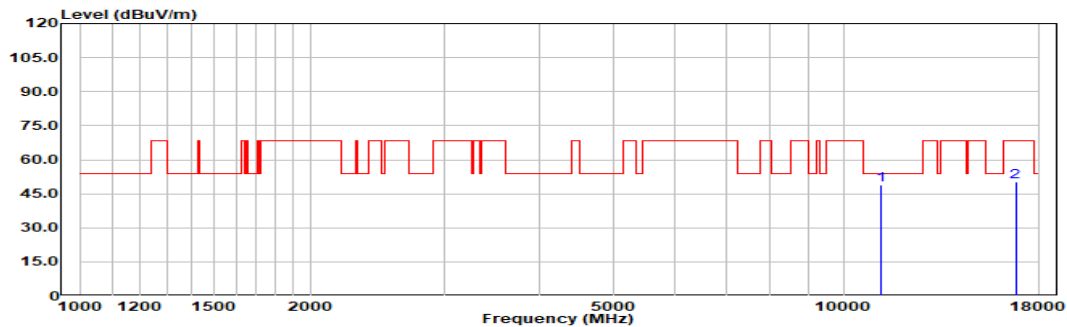
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11180.000	12.88	-500.00	581.86	49.03	54.00	-4.97	Peak	
2	16770.000	15.68	-500.00	578.52	50.33	68.30	-17.97	Peak	



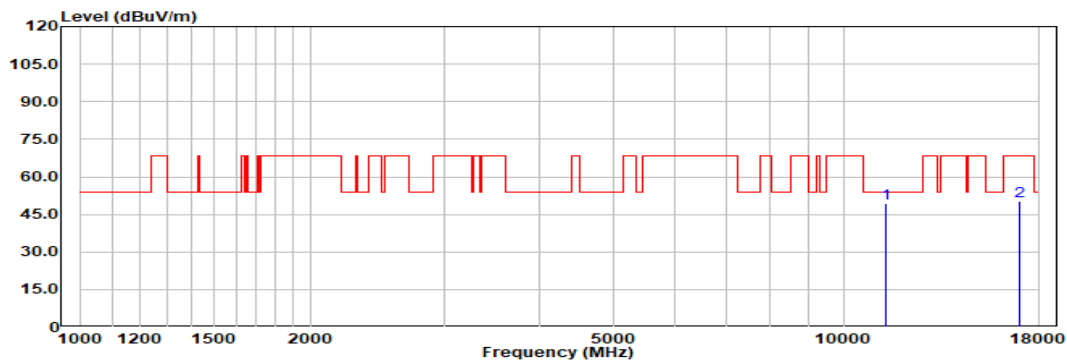
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dBuV	dBuV/m				
1 11340.000	12.98	-500.00	582.01	49.17	54.00	-4.83		Peak
2 17010.000	15.91	-500.00	578.30	50.29	68.30	-18.01		Peak



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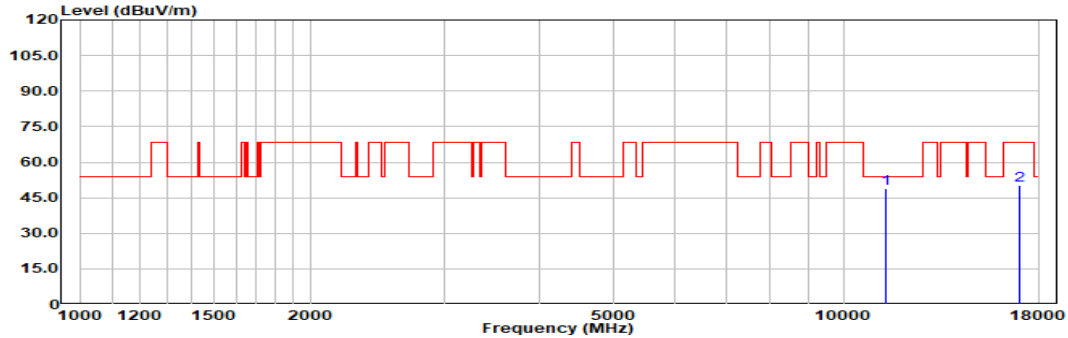
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11340.000	12.98	-500.00	581.84	49.00	54.00	-5.00		Peak	
2	17010.000	15.91	-500.00	578.14	50.13	68.30	-18.17		Peak	



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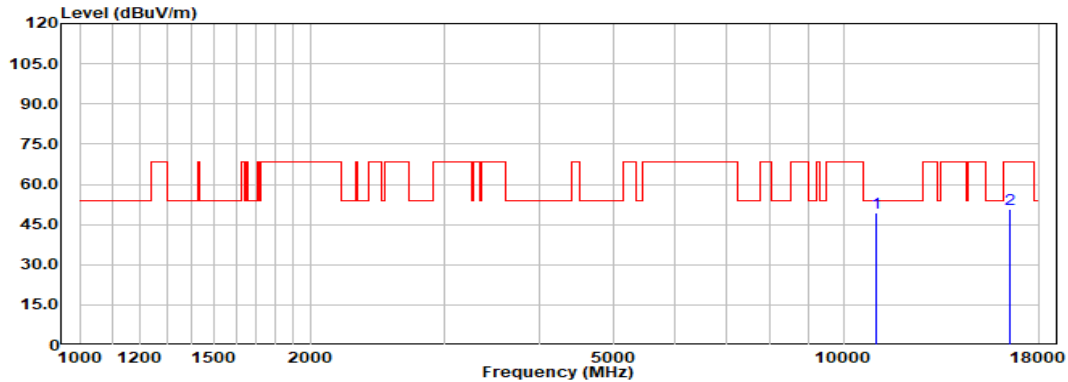
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11000.000	12.77	-500.00	581.97	49.16	54.00	-4.84	Peak		
2	16500.000	15.42	-500.00	578.97	50.60	68.30	-17.70	Peak		



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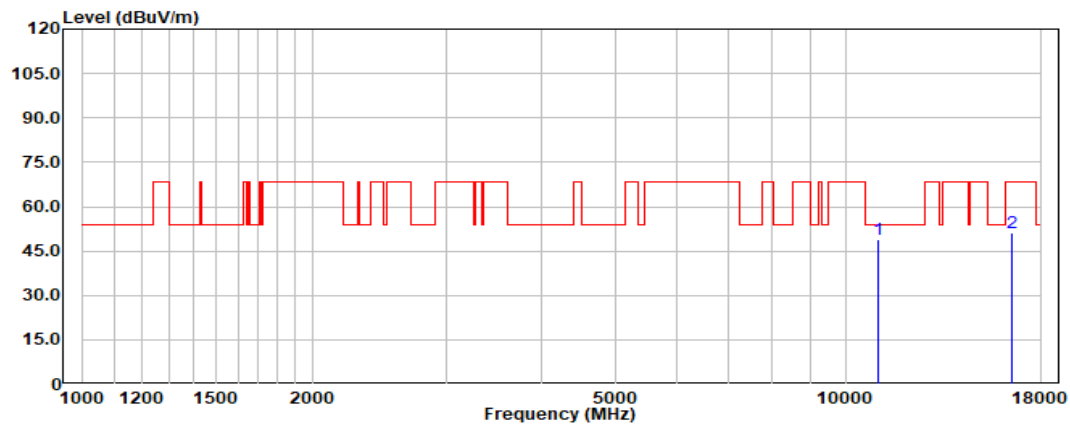
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11000.000	12.77	-500.00	581.88	49.07	54.00	-4.93		Peak	
2	16500.000	15.42	-500.00	579.37	51.00	68.30	-17.30		Peak	



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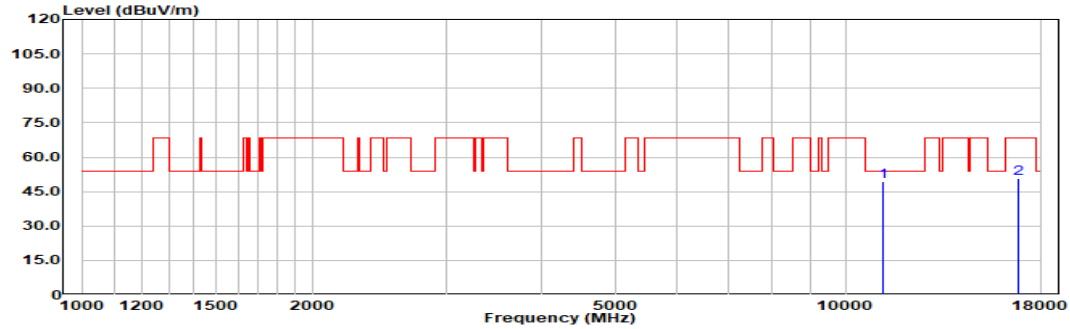
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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11200.000	12.89	-500.00	582.18	49.35	54.00	-4.65		Peak
2	16800.000	15.71	-500.00	578.81	50.65	68.30	-17.65		Peak



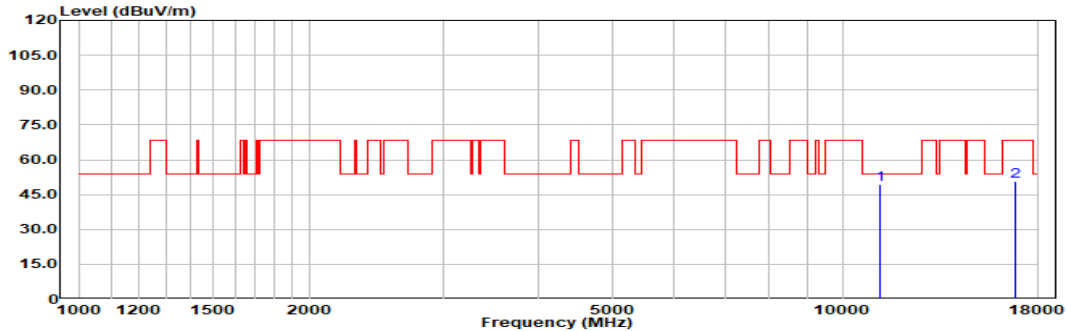
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



	Freq	Cable	Ant	Read	Over			Remark
		Loss	Factor	Level	LevelFCC	5G	FCC 5G	
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11200.000	12.89-500.00	582.12	49.29	54.00	-4.71	Peak	
2	16800.000	15.71-500.00	578.87	50.71	68.30	-17.59	Peak	



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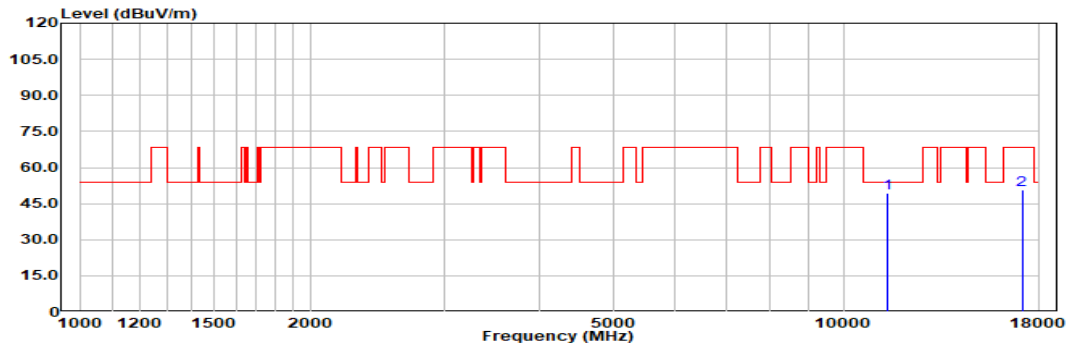
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11400.000	13.02	-500.00	582.40	49.55	54.00	-4.45	Peak		
2	17100.000	16.00	-500.00	578.55	50.73	68.30	-17.57	Peak		



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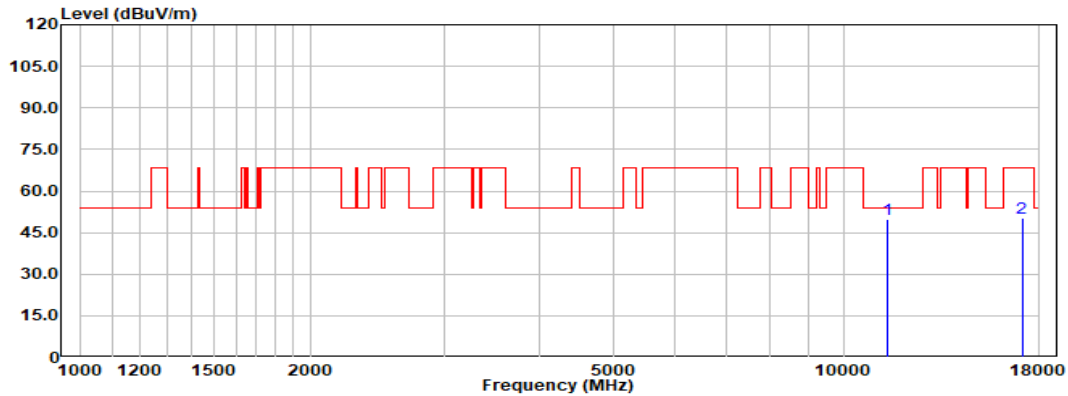
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11400.000	13.02-500.00	582.79	49.94	54.00	-4.06	Peak		
2	17100.000	16.00-500.00	578.11	50.29	68.30	-18.01	Peak		



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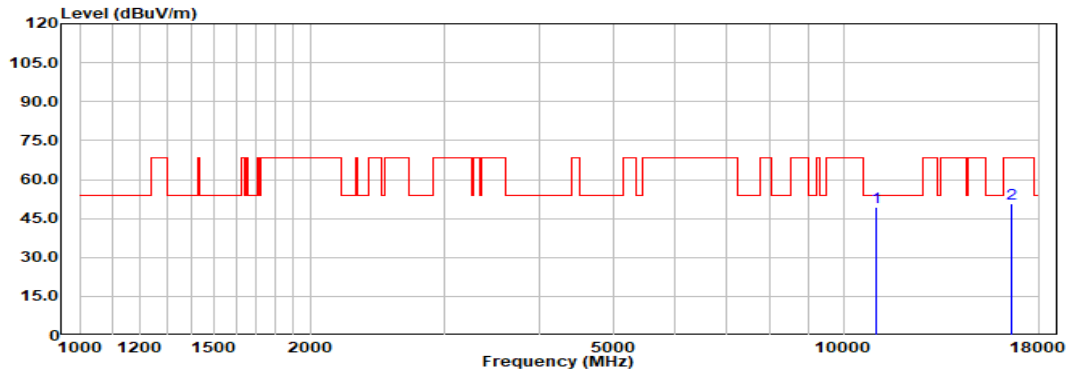
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11020.000	12.78	-500.00	582.34	49.53	54.00	-4.47	Peak
2	16530.000	15.45	-500.00	578.86	50.51	68.30	-17.79	Peak



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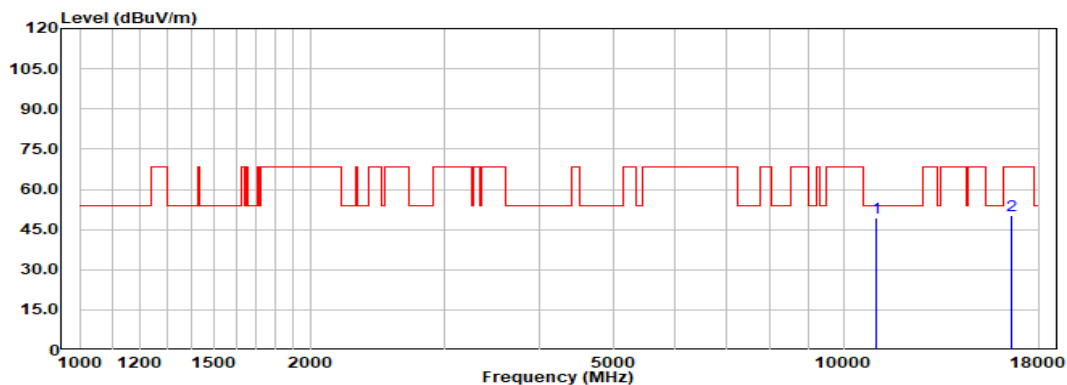
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11020.000	12.78	-500.00	582.20	49.39	54.00	-4.61	Peak		
2	16530.000	15.45	-500.00	578.43	50.08	68.30	-18.22	Peak		



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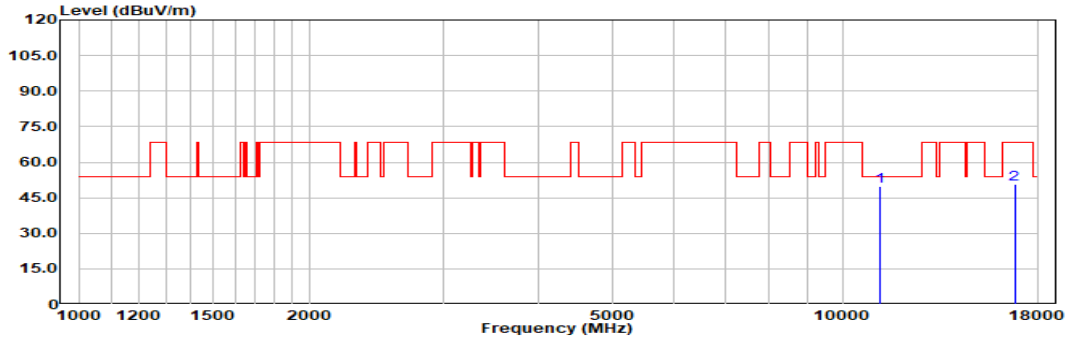
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11180.000	12.88	-500.00	582.52	49.69	54.00	-4.31		Peak	
2	16770.000	15.68	-500.00	578.93	50.74	68.30	-17.56		Peak	



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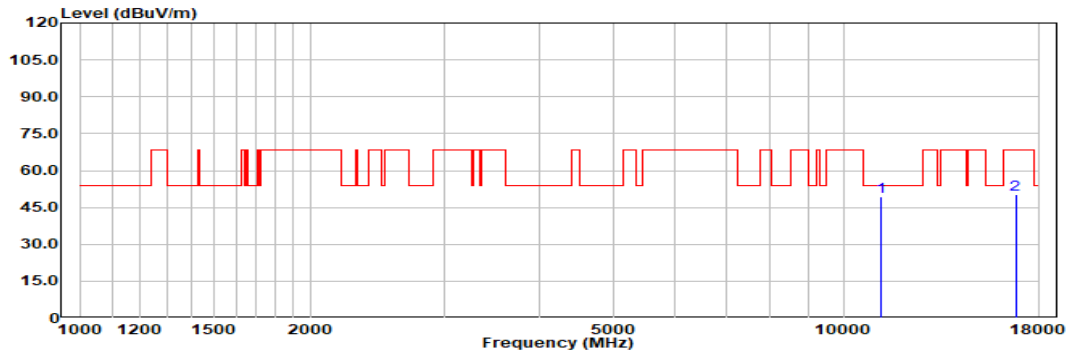
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11180.000	12.88	-500.00	581.99	49.16	54.00	-4.84	Peak
2	16770.000	15.68	-500.00	578.52	50.33	68.30	-17.97	Peak



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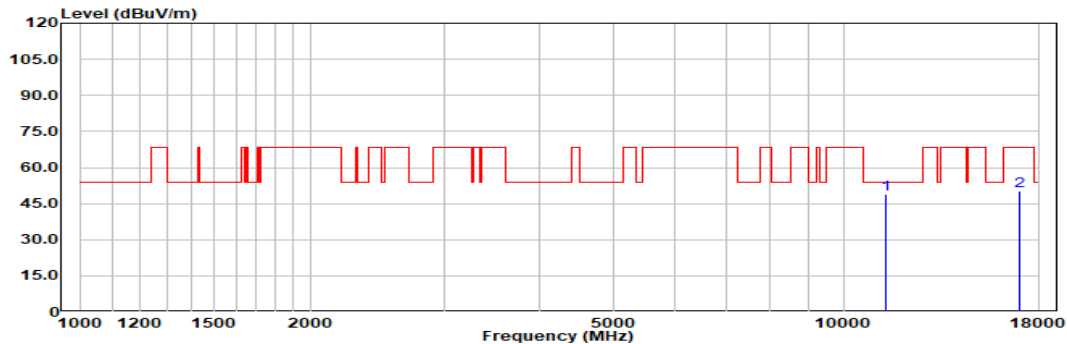
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11340.000	12.98	-500.00	581.85	49.01	54.00	-4.99	Peak
2	17010.000	15.91	-500.00	578.47	50.46	68.30	-17.84	Peak



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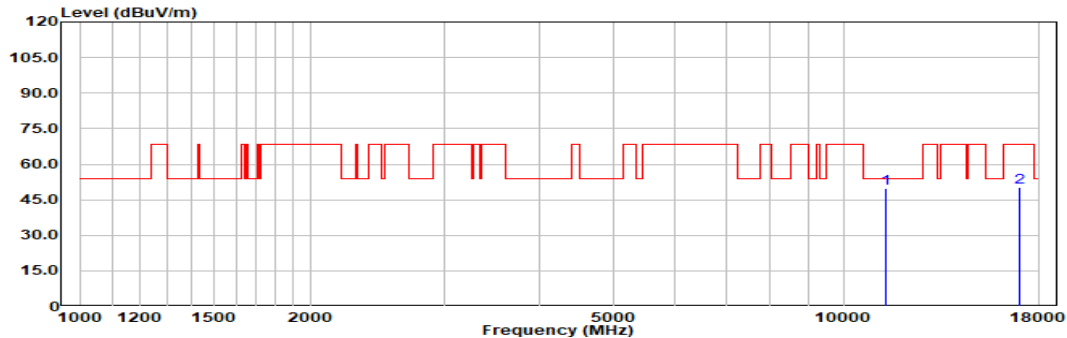
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11340.000	12.98	-500.00	582.66	49.82	54.00	-4.18	Peak		
2	17010.000	15.91	-500.00	578.06	50.05	68.30	-18.25	Peak		



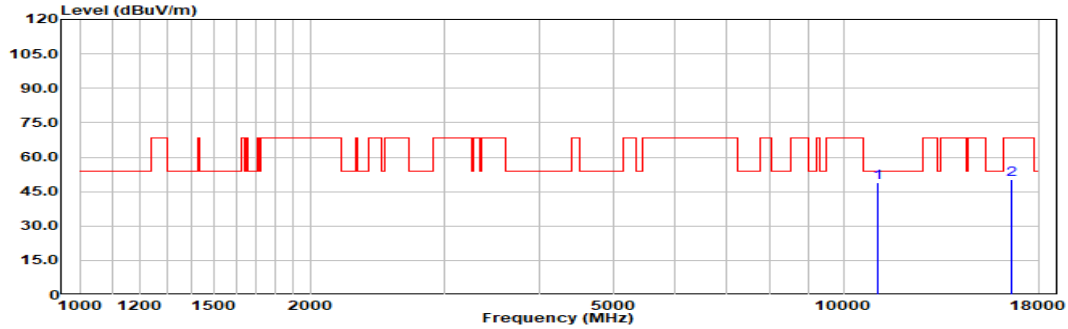
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11060.000	12.80	-500.00	581.88	49.06	54.00	-4.94		Peak
2	16590.000	15.51	-500.00	578.55	50.24	68.30	-18.06		Peak



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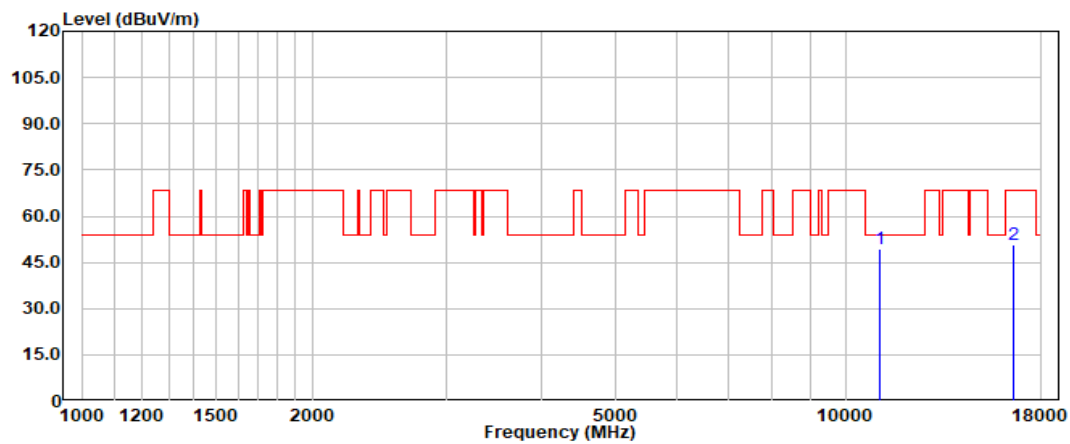
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Over Level	5G FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11060.000	12.80	-500.00	582.00	49.18	54.00	-4.82	Peak
2	16590.000	15.51	-500.00	578.92	50.61	68.30	-17.69	Peak



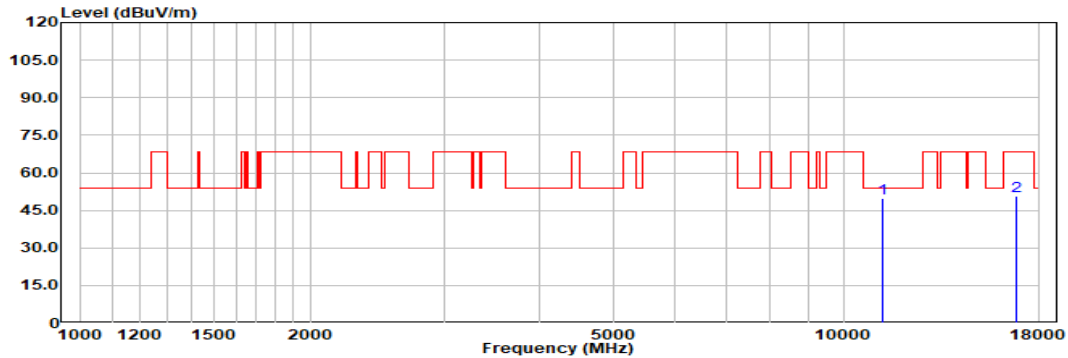
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dBuV	dBuV/m				
1 11220.000	12.91	-500.00	582.77	49.94	54.00	-4.06		Peak
2 16830.000	15.74	-500.00	578.83	50.69	68.30	-17.61		Peak



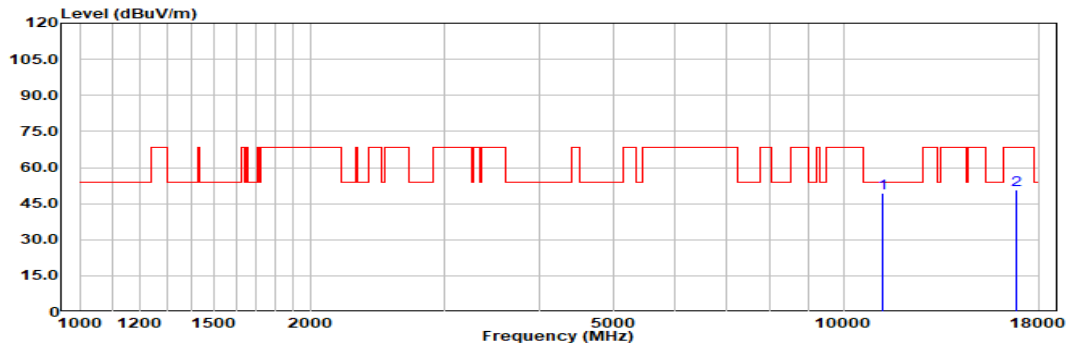
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11220.000	12.91	-500.00	581.97	49.14	54.00	-4.86	Peak
2	16830.000	15.74	-500.00	579.02	50.88	68.30	-17.42	Peak



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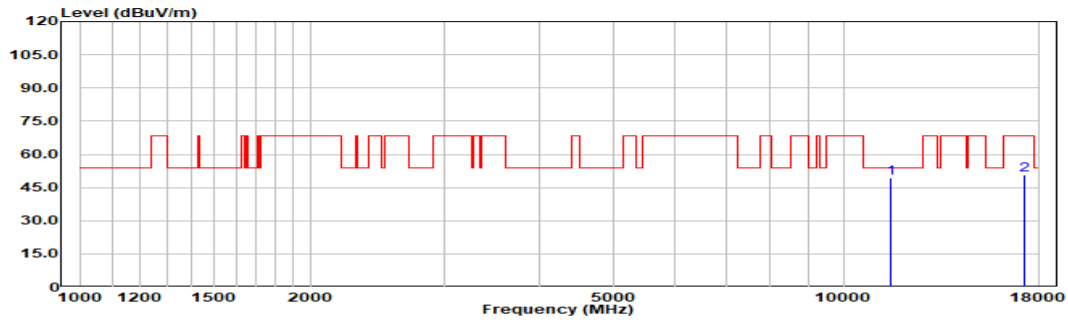
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11490.000	13.08	-500.00	582.21	49.36	54.00	-4.64			Peak
2	17235.000	16.12	-500.00	578.16	50.60	68.30	-17.70			Peak



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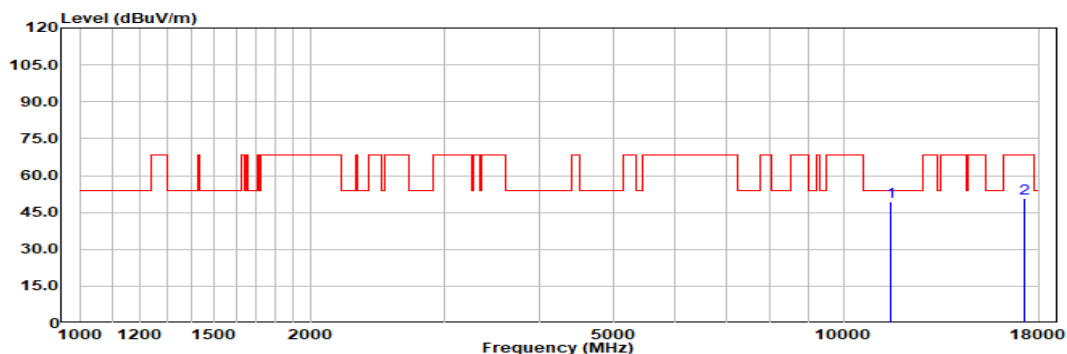
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11490.000	13.08	-500.00	582.40	49.55	54.00	-4.45	Peak
2	17235.000	16.12	-500.00	578.06	50.50	68.30	-17.80	Peak



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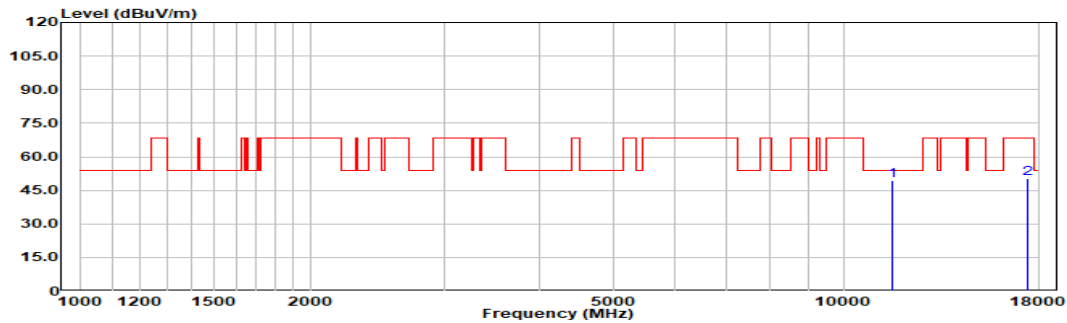
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11570.000	13.13	-500.00	581.98	49.21	54.00	-4.79	Peak	
2	17355.000	16.24	-500.00	577.40	50.09	68.30	-18.21	Peak	



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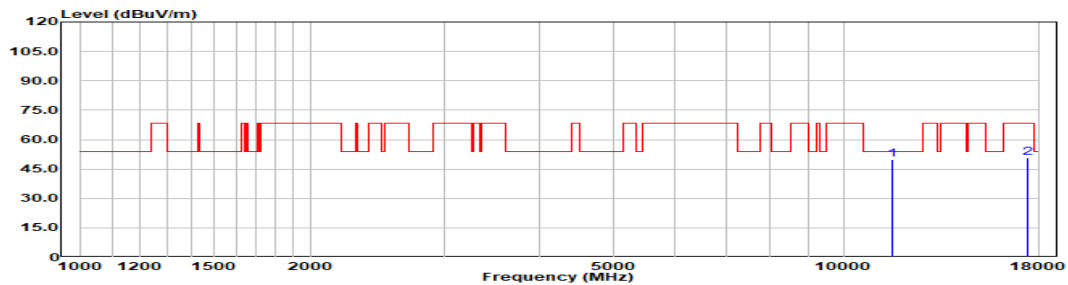
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable	Ant	Read	LevelFCC	5G	Over	Remark
	MHz	Loss	Factor	Level			FCC	
		dB	dB/m	dBuV	dBuV/m			
1	11570.000	13.13	-500.00	582.71	49.94	54.00	-4.06	Peak
2	17355.000	16.24	-500.00	578.18	50.87	68.30	-17.43	Peak



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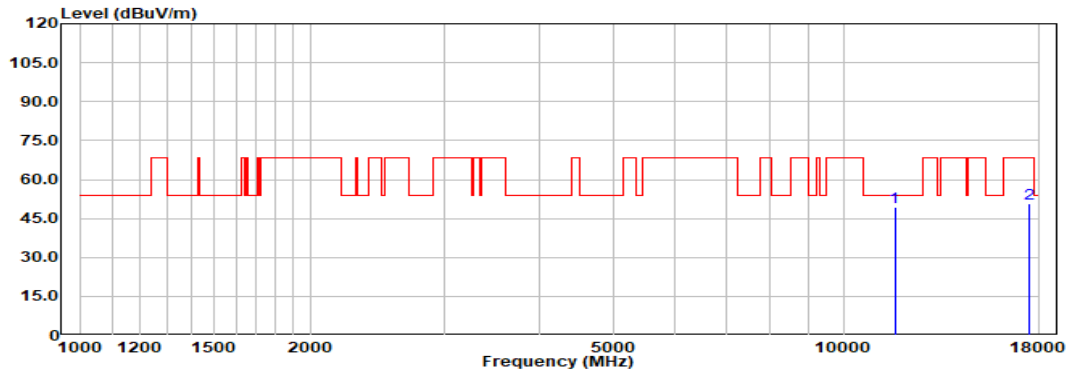
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11650.000	13.18	-500.00	581.96	49.28	54.00	-4.72	Peak
2	17475.000	16.33	-500.00	577.91	50.81	68.30	-17.49	Peak



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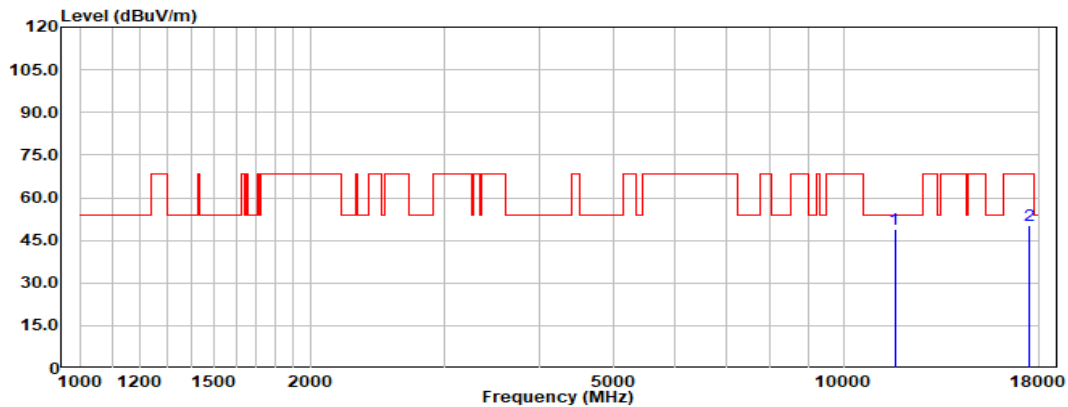
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	FCC 5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11650.000	13.18	-500.00	581.73	49.05	54.00	-4.95	Peak	
2	17475.000	16.33	-500.00	577.57	50.47	68.30	-17.83	Peak	



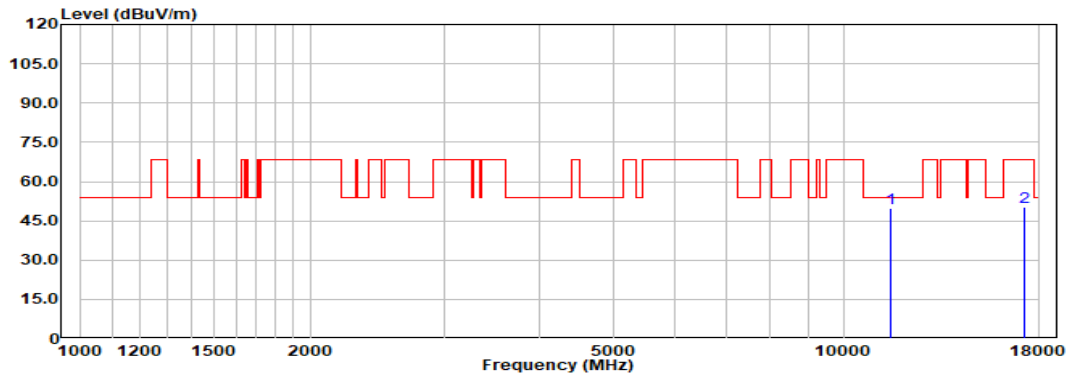
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11490.000	13.08	-500.00	582.44	49.59	54.00	-4.41		Peak
2	17235.000	16.12	-500.00	578.05	50.49	68.30	-17.81		Peak



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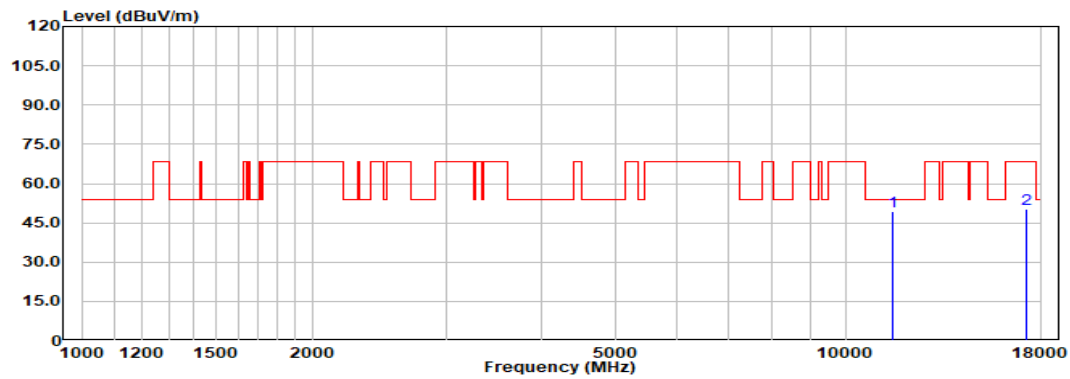
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11490.000	13.08	-500.00	582.04	49.19	54.00	-4.81		Peak
2	17235.000	16.12	-500.00	577.89	50.33	68.30	-17.97		Peak



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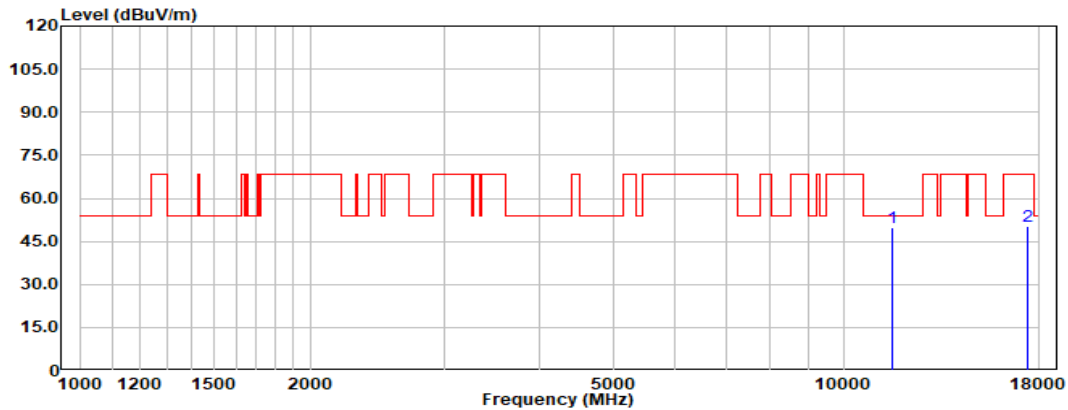
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11570.000	13.13	-500.00	582.52	49.75	54.00	-4.25	Peak		
2	17355.000	16.24	-500.00	577.73	50.42	68.30	-17.88	Peak		



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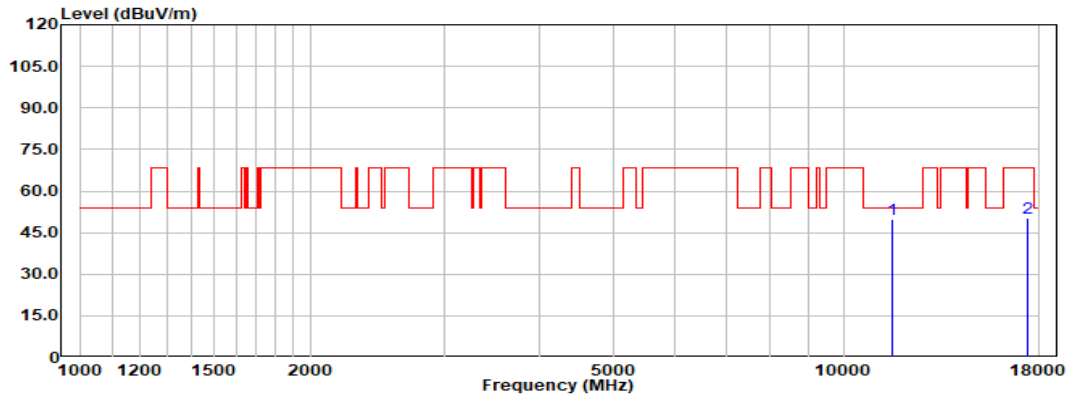
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11570.000	13.13	-500.00	582.44	49.67	54.00	-4.33		Peak
2	17355.000	16.24	-500.00	577.74	50.43	68.30	-17.87		Peak



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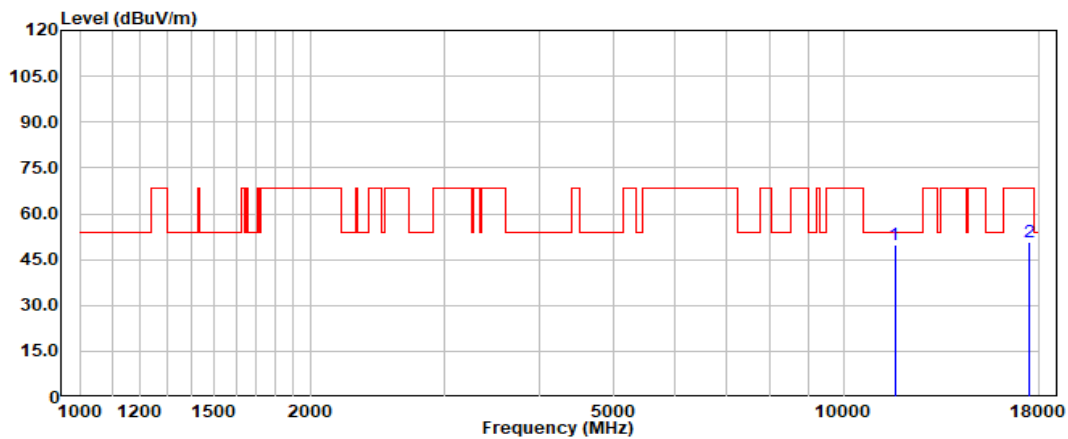
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11650.000	13.18-500.00	582.34	49.66	54.00	-4.34	Peak			
2	17475.000	16.33-500.00	577.80	50.70	68.30	-17.60	Peak			



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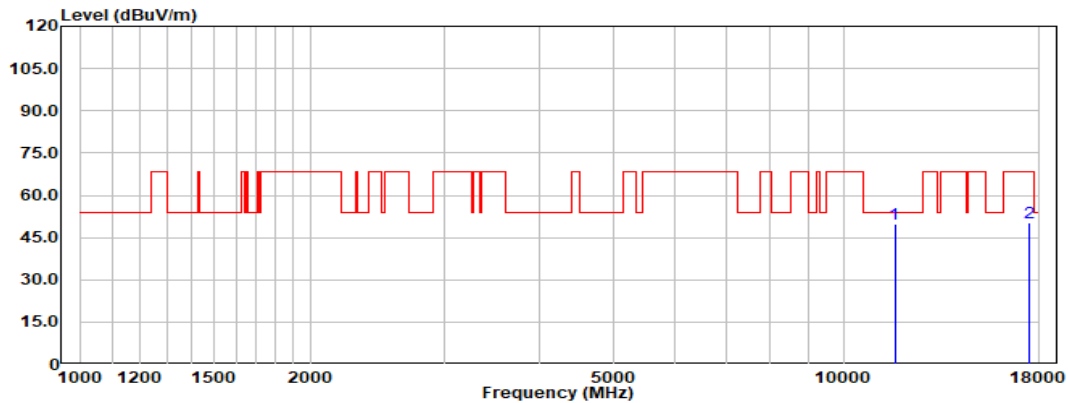
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11650.000	13.18	-500.00	582.63	49.95	54.00	-4.05		Peak
2	17475.000	16.33	-500.00	577.54	50.44	68.30	-17.86		Peak



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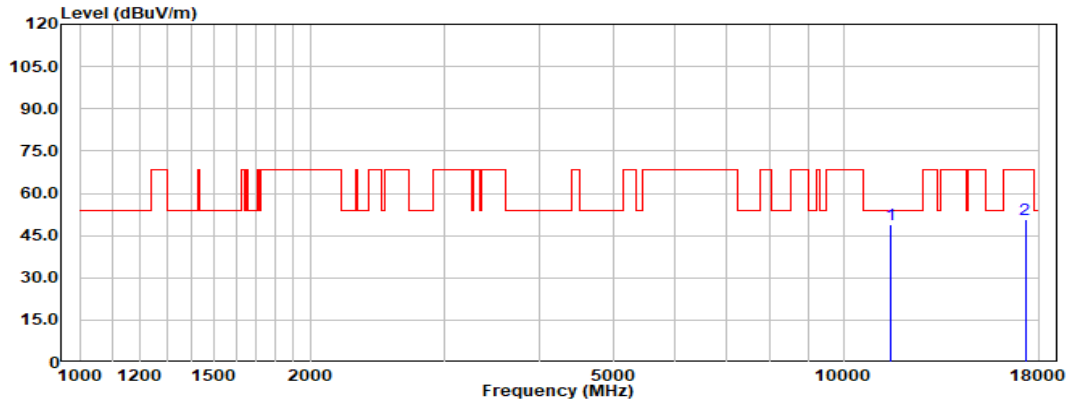
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11510.000	13.09	-500.00	581.85	49.01	54.00	-4.99		Peak
2	17265.000	16.15	-500.00	578.30	50.80	68.30	-17.50		Peak



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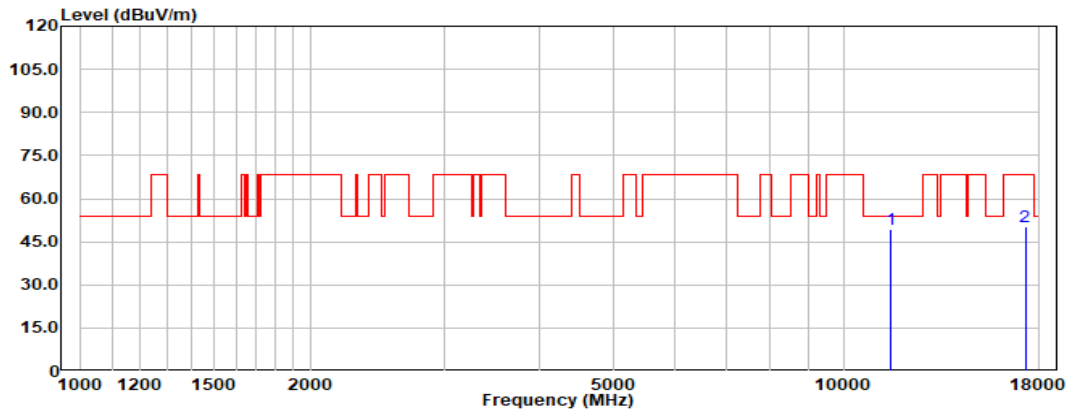
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11510.000	13.09	-500.00	582.35	49.51	54.00	-4.49		Peak	
2	17265.000	16.15	-500.00	577.78	50.28	68.30	-18.02		Peak	



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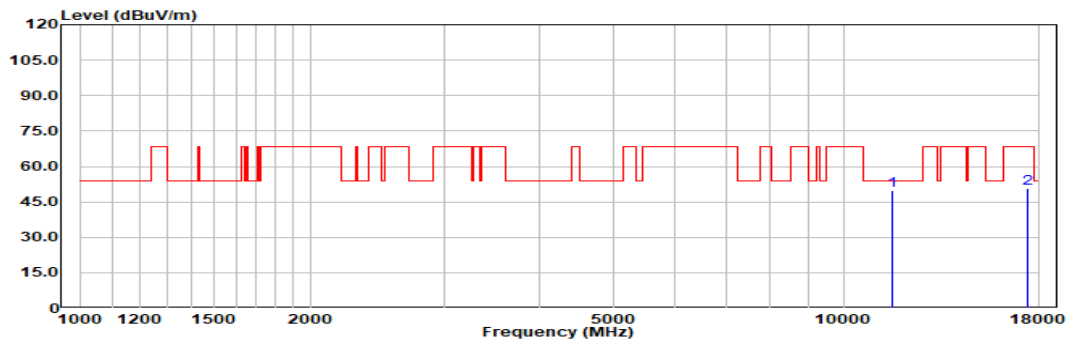
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
MHz	dB	dB/m	dBuV	dBuV/m					
1 11590.000	13.14	-500.00	582.69	49.93	54.00	-4.07	Peak		
2 17385.000	16.27	-500.00	578.17	50.92	68.30	-17.38	Peak		



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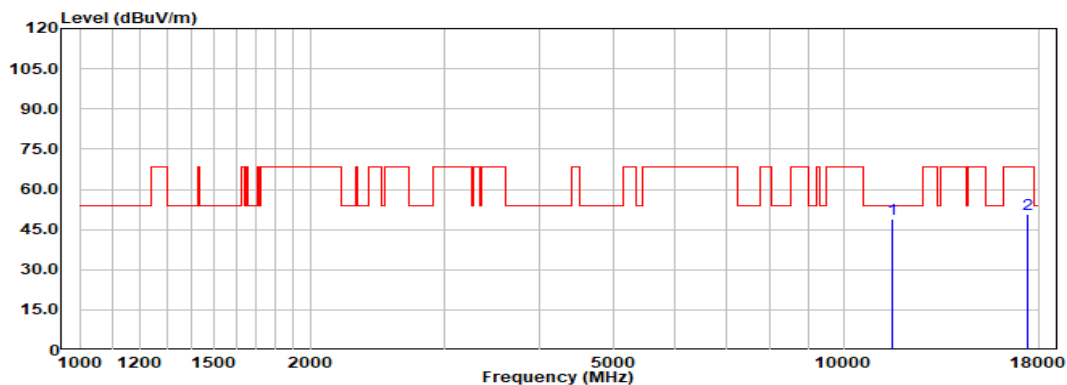
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11590.000	13.14	-500.00	581.88	49.12	54.00	-4.88	Peak		
2	17385.000	16.27	-500.00	577.84	50.59	68.30	-17.71	Peak		



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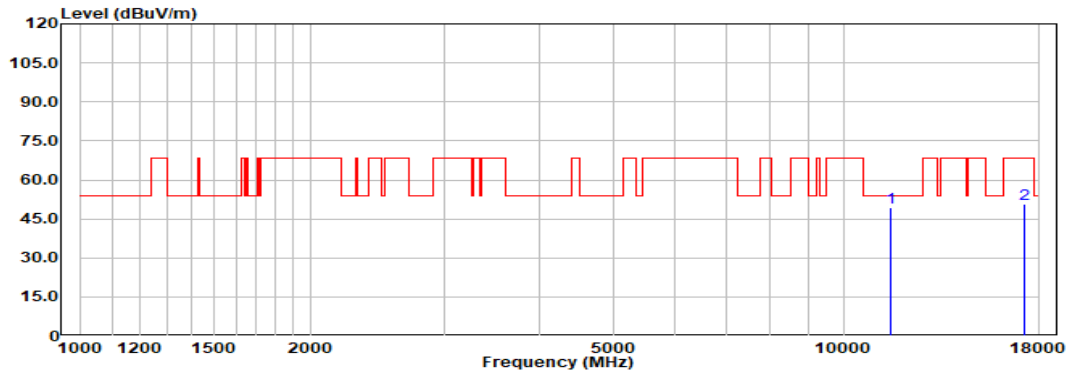
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11490.000	13.08	-500.00	582.12	49.27	54.00	-4.73		Peak
2	17235.000	16.12	-500.00	578.38	50.82	68.30	-17.48		Peak



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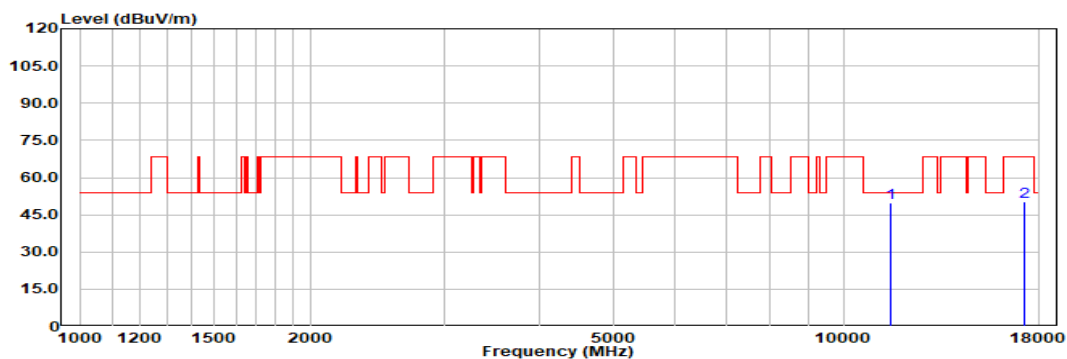
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11490.000	13.08	-500.00	582.67	49.82	54.00	-4.18		Peak	
2	17235.000	16.12	-500.00	577.72	50.16	68.30	-18.14		Peak	



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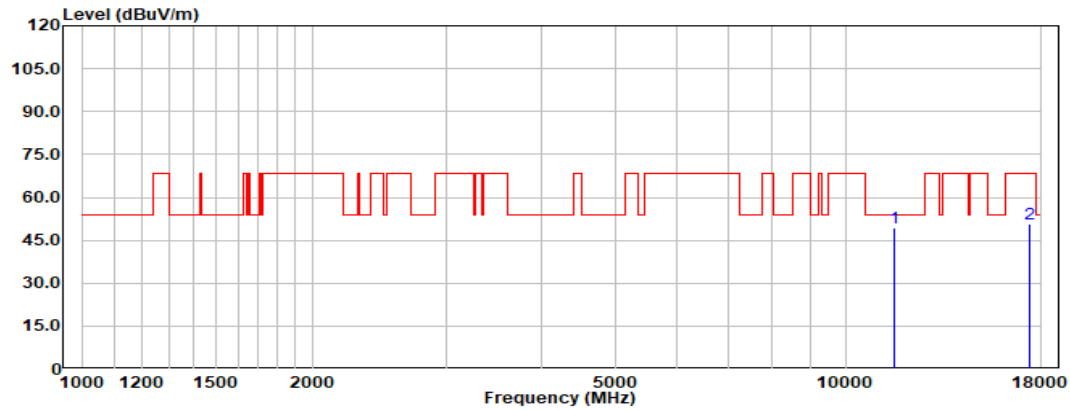
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11570.000	13.13	-500.00	581.94	49.17	54.00	-4.83		Peak	
2	17355.000	16.24	-500.00	577.97	50.66	68.30	-17.64		Peak	



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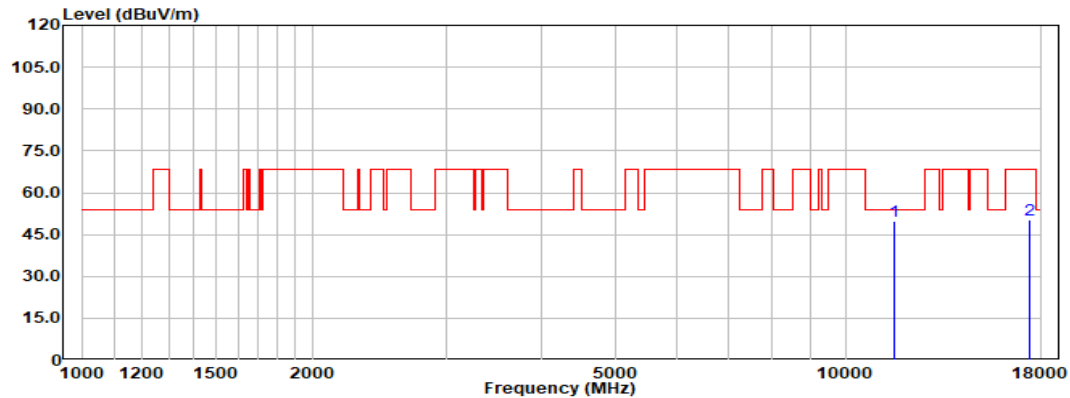
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11570.000	13.13	-500.00	582.77	50.00	54.00	-4.00		Peak
2	17355.000	16.24	-500.00	577.35	50.04	68.30	-18.26		Peak



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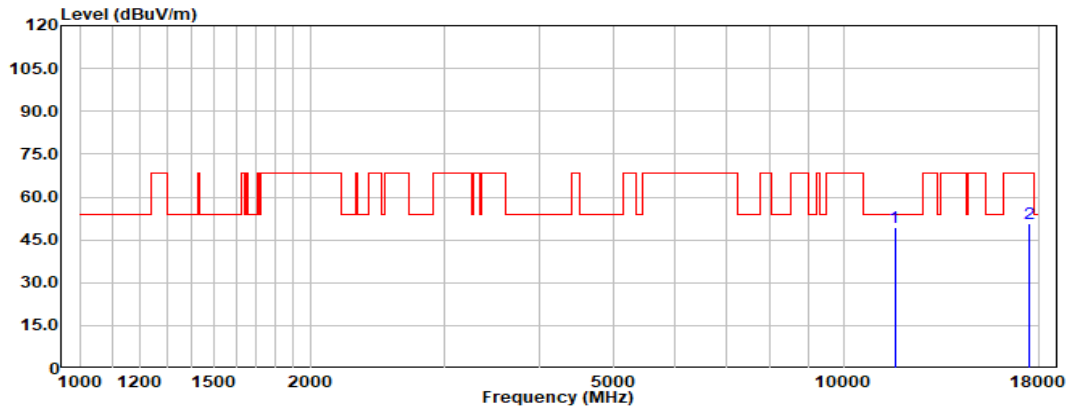
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	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11650.000	13.18	-500.00	582.03	49.35	54.00	-4.65		Peak	
2	17475.000	16.33	-500.00	577.75	50.65	68.30	-17.65		Peak	



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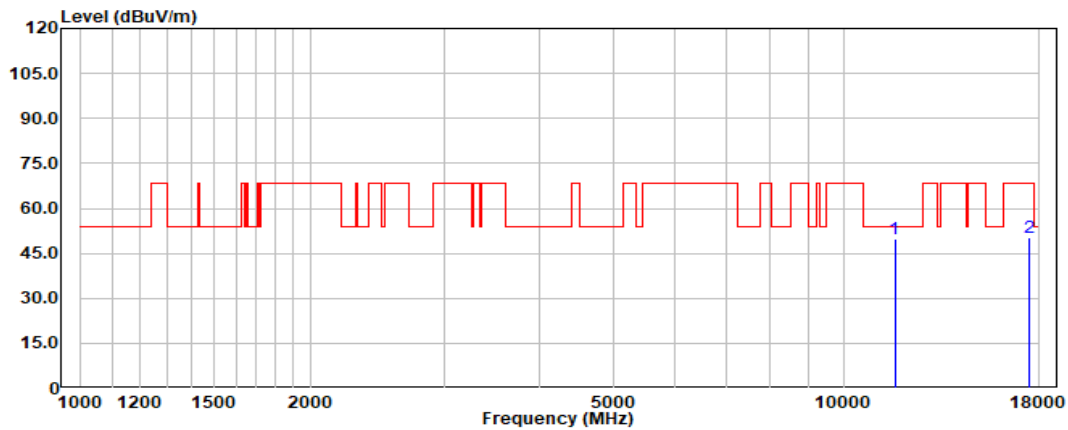
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11650.000	13.18	-500.00	582.68	50.00	54.00	-4.00		Peak
2	17475.000	16.33	-500.00	577.28	50.18	68.30	-18.12		Peak



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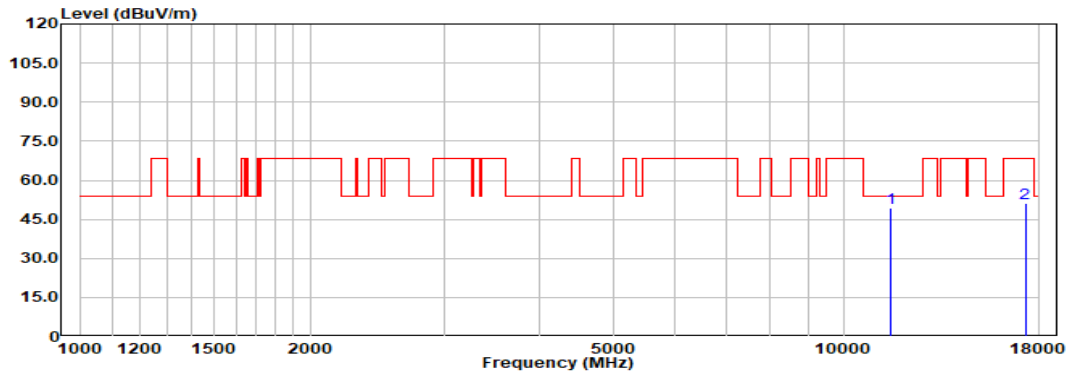
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11510.000	13.09	-500.00	582.27	49.43	54.00	-4.57	Peak
2	17265.000	16.15	-500.00	578.46	50.96	68.30	-17.34	Peak



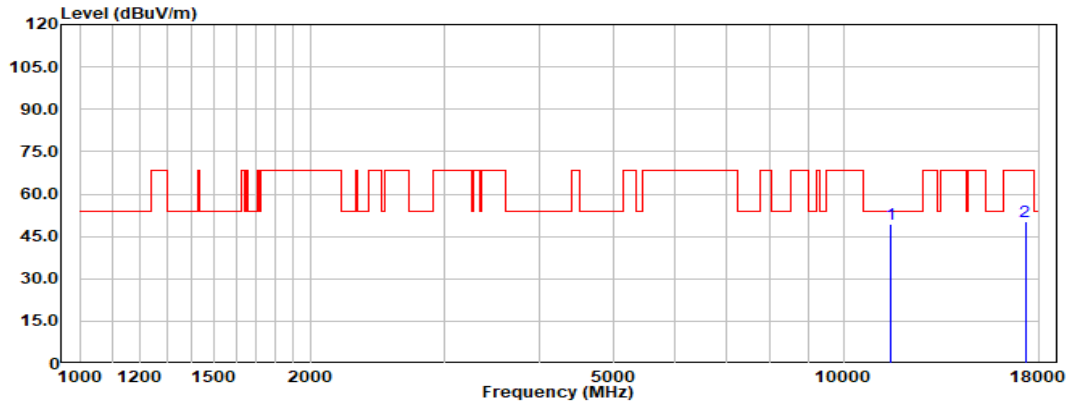
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	Over FCC 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11510.000	13.09	-500.00	582.27	49.43	54.00	-4.57	Peak
2	17265.000	16.15	-500.00	577.56	50.06	68.30	-18.24	Peak



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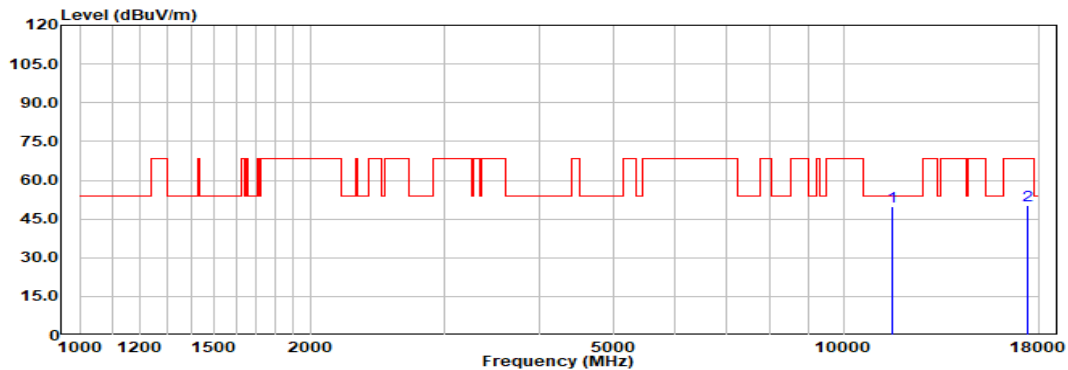
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11590.000	13.14	-500.00	582.72	49.96	54.00	-4.04		Peak
2	17385.000	16.27	-500.00	577.46	50.21	68.30	-18.09		Peak



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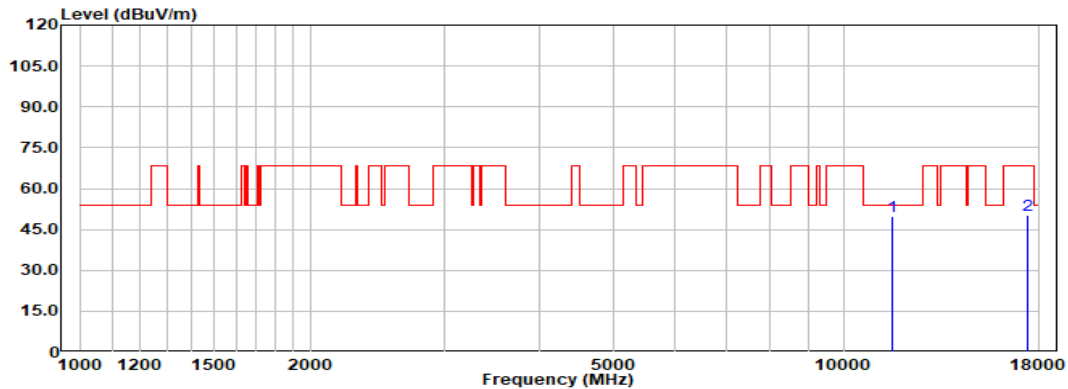
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11590.000	13.14	-500.00	582.44	49.68	54.00	-4.32	Peak		
2	17385.000	16.27	-500.00	577.59	50.34	68.30	-17.96	Peak		



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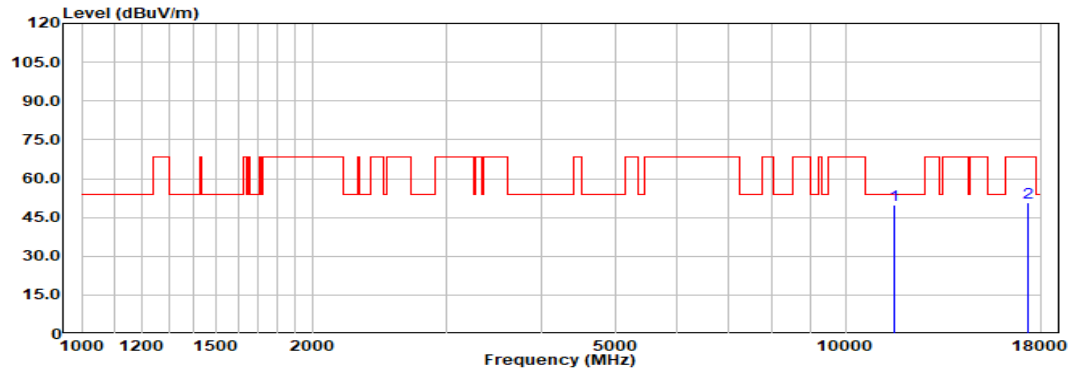
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11550.000	13.12	-500.00	582.41	49.62	54.00	-4.38		Peak
2	17325.000	16.21	-500.00	578.31	50.93	68.30	-17.37		Peak



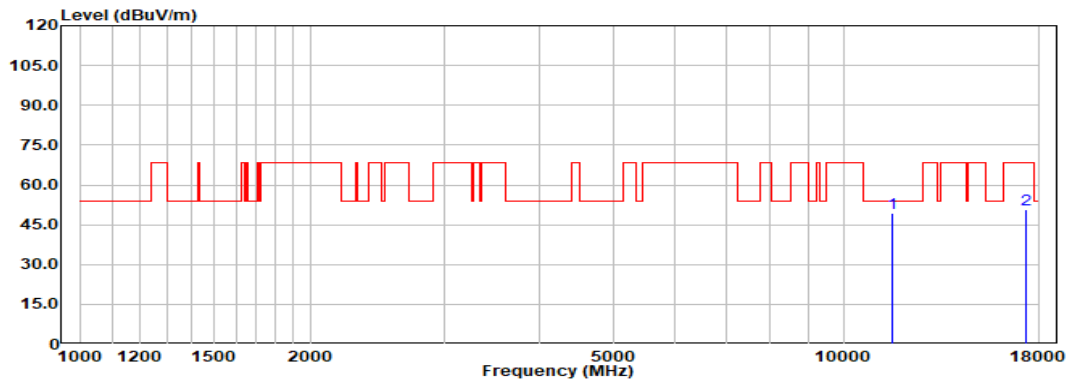
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
MHz	dB	dB/m	dBuV	dBuV/m			
1 11550.000	13.12	-500.00	582.16	49.37	54.00	-4.63	Peak
2 17325.000	16.21	-500.00	578.25	50.87	68.30	-17.43	Peak



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7.7 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 52.2 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and



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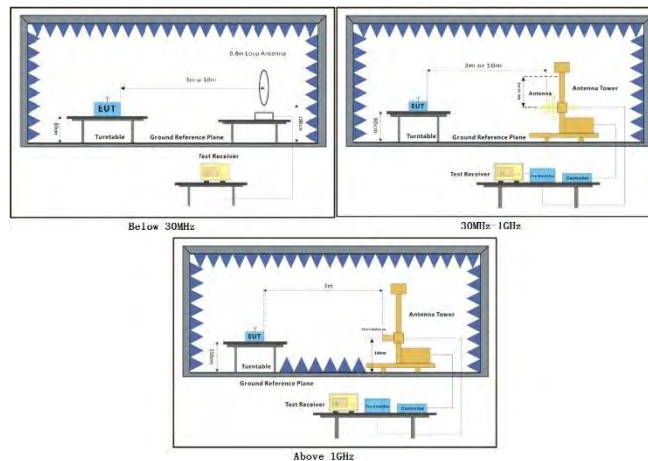
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		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate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

7.7.3 Test Setup Diagram



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7.7.4 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



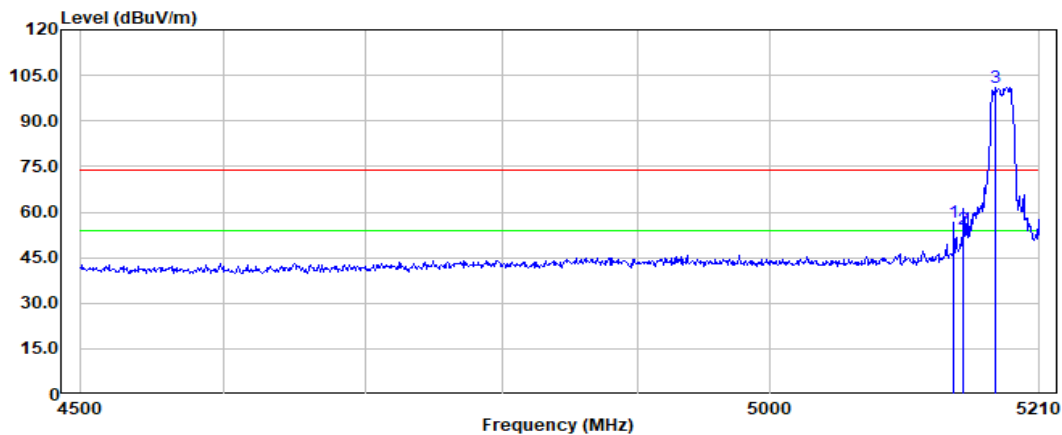
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	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5142.550	8.38	32.62	-6.59	63.40	56.81	74.00	-17.19	Peak
2	5150.000	8.39	32.61	-6.59	60.92	54.33	74.00	-19.67	Peak
3	5175.920	8.42	32.59	-6.59	107.65	101.06	74.00	27.06	Peak



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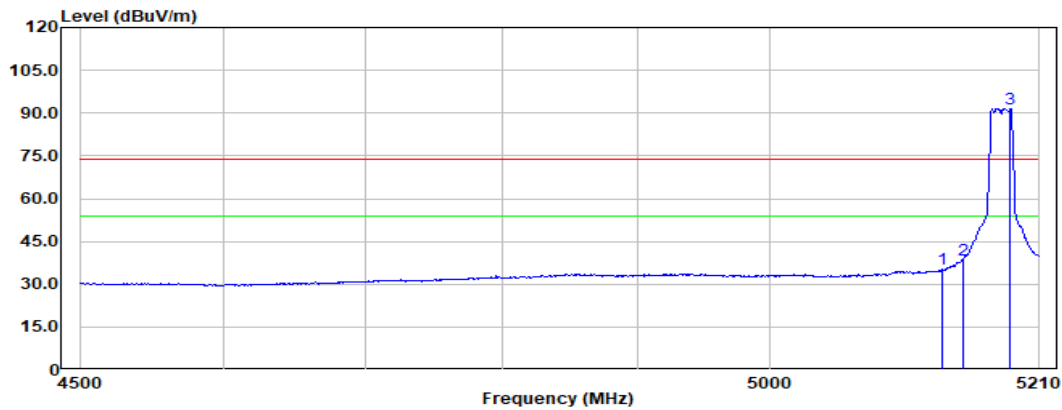
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	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5134.030	8.37	32.62	-6.60	41.77	35.17	54.00	-18.83	Average
2	5150.000	8.39	32.61	-6.59	45.18	38.59	54.00	-15.41	Average
3	5187.280	8.44	32.58	-6.59	98.28	91.69	54.00	37.69	Average



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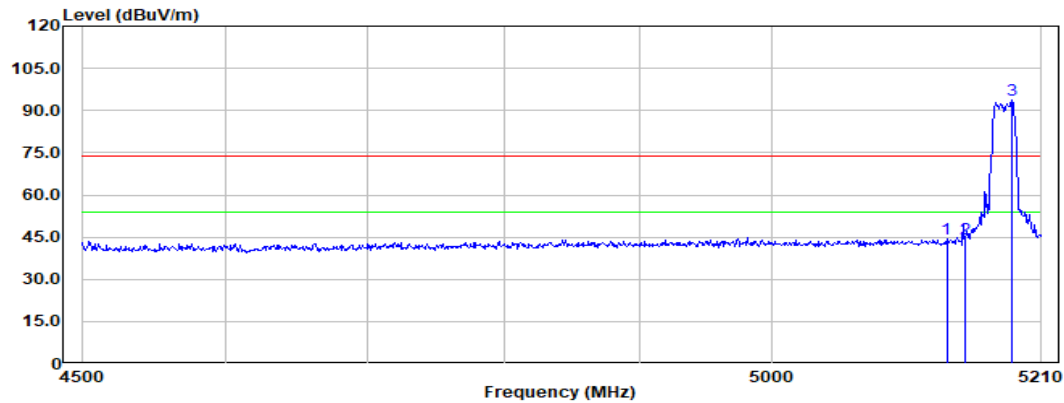
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	Freq	Cable Loss	Ant Factor		Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m	LevelFCC	CLA	
1	5135.450	8.37	32.62	-6.60	50.89	44.29	74.00	-29.71	Peak
2	5150.000	8.39	32.61	-6.59	51.03	44.44	74.00	-29.56	Peak
3	5187.280	8.44	32.58	-6.59	100.51	93.92	74.00	19.92	Peak



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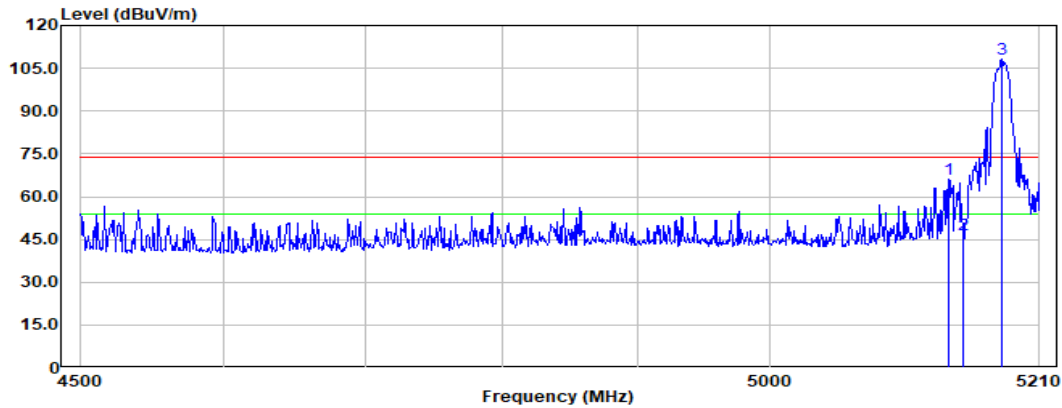
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	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5139.000	8.38	32.62	-6.59	72.49	65.90	74.00	-8.10	Peak
2	5150.000	8.39	32.61	-6.59	53.43	46.84	74.00	-27.16	Peak
3	5180.180	8.43	32.59	-6.58	114.61	108.03	74.00	34.03	Peak



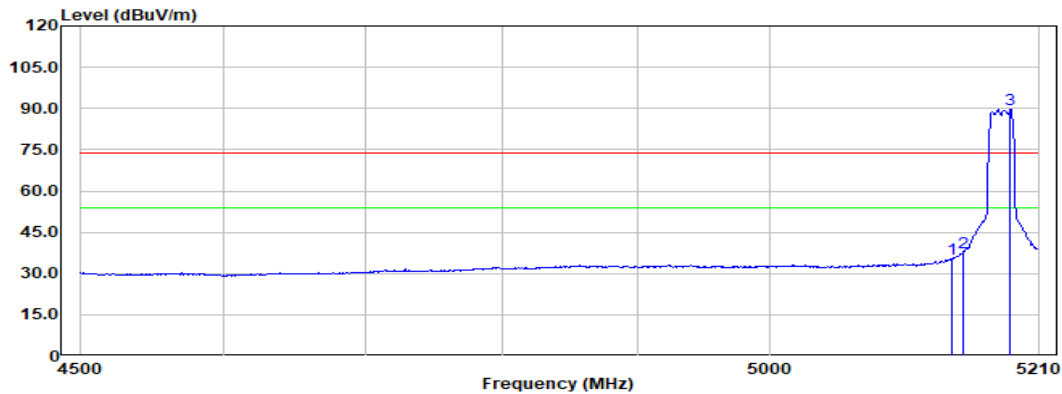
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	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5141.130	8.38	32.62	-6.59	41.99	35.40	54.00	-18.60	Average
2	5150.000	8.39	32.61	-6.59	43.99	37.40	54.00	-16.60	Average
3	5187.280	8.44	32.58	-6.59	96.20	89.61	54.00	35.61	Average



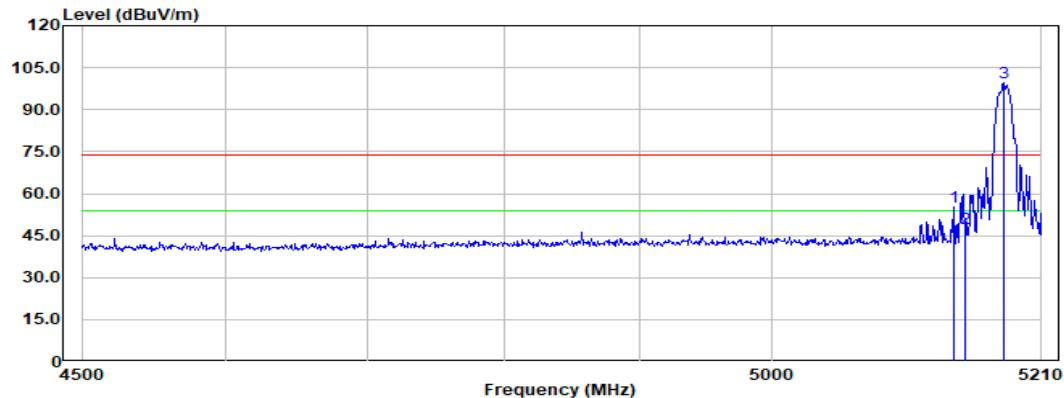
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	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5141.130	8.38	32.62	-6.59	61.76	55.17	74.00	-18.83	Peak
2	5150.000	8.39	32.61	-6.59	54.31	47.72	74.00	-26.28	Peak
3	5180.180	8.43	32.59	-6.58	106.00	99.42	74.00	25.42	Peak



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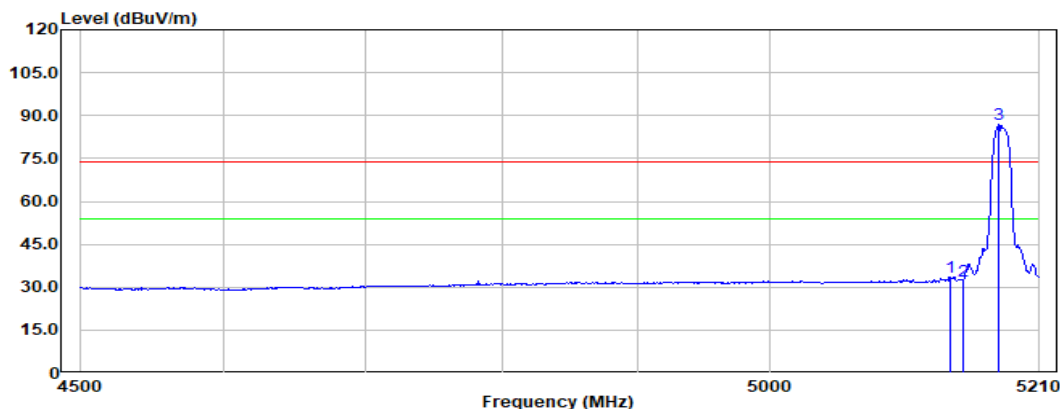
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	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLA FCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5140.420	8.38	32.62	-6.59	40.10	33.51	54.00	-20.49	Average
2	5150.000	8.39	32.61	-6.59	38.84	32.25	54.00	-21.75	Average
3	5178.050	8.43	32.59	-6.58	93.53	86.95	54.00	32.95	Average



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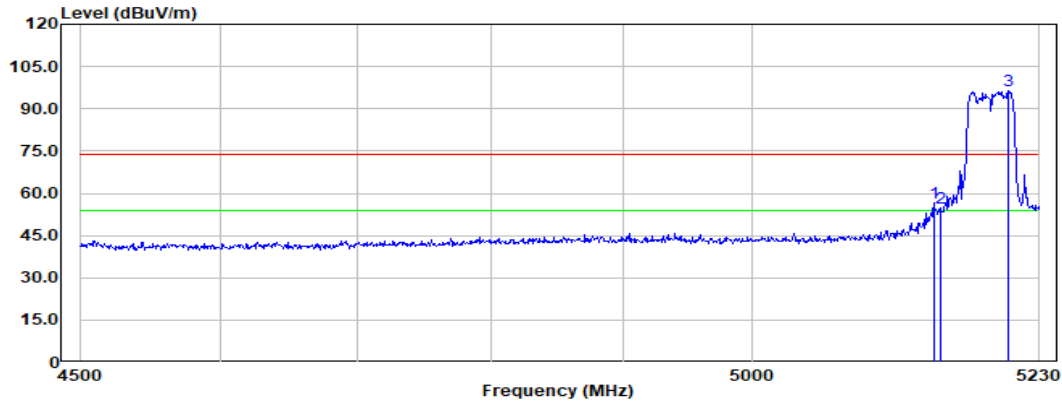
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	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m	CLA	FCC	
1	5144.590	8.38	32.61	-6.60	63.05	56.45	74.00	-17.55	Peak
2	5150.000	8.39	32.61	-6.59	61.20	54.61	74.00	-19.39	Peak
3	5205.180	8.46	32.57	-6.57	102.85	96.28	74.00	22.28	Peak



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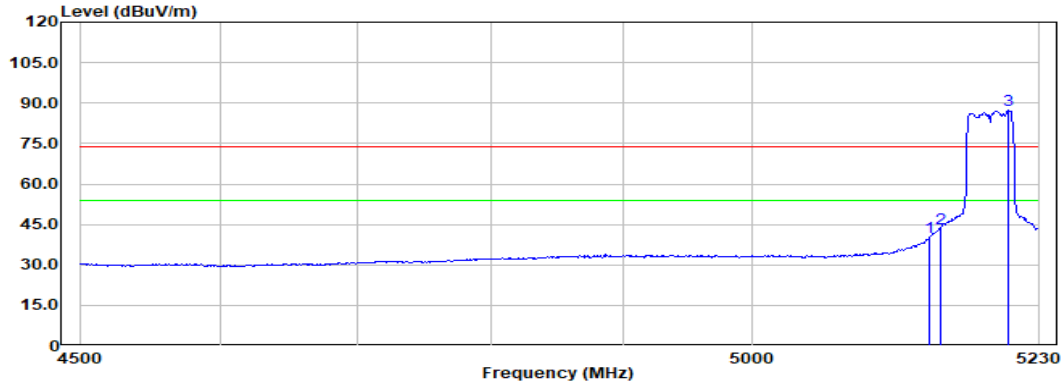
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5140.940	8.38	32.62	-6.59	46.91	40.32	54.00	-13.68	Average
2	5150.000	8.39	32.61	-6.59	50.13	43.54	54.00	-10.46	Average
3	5204.450	8.46	32.57	-6.57	93.79	87.22	54.00	33.22	Average



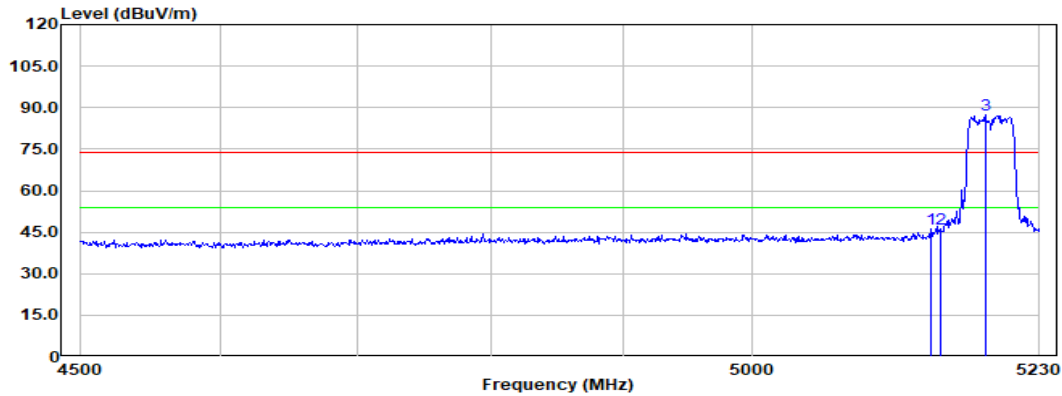
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5142.400	8.38	32.62	-6.59	52.90	46.31	74.00	-27.69	Peak
2	5150.000	8.39	32.61	-6.59	52.56	45.97	74.00	-28.03	Peak
3	5186.200	8.44	32.58	-6.59	94.01	87.42	74.00	13.42	Peak



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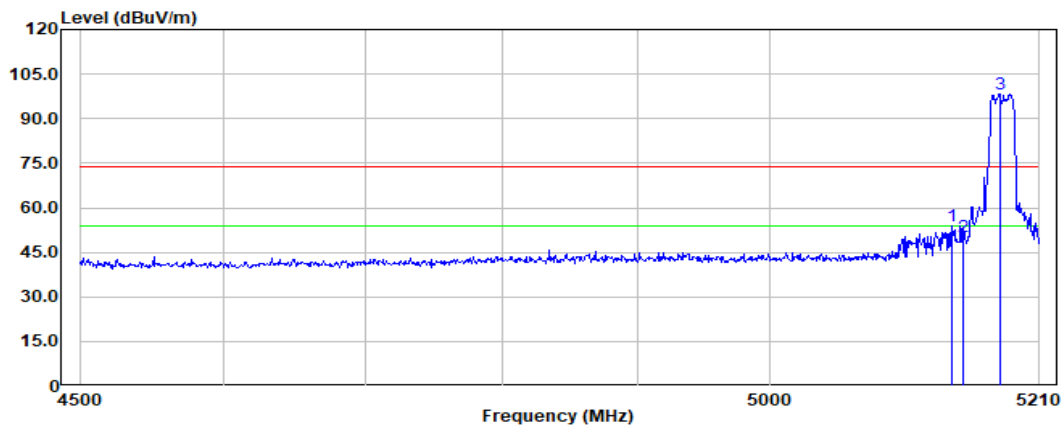
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	Level	FCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5141.130	8.38	32.62	-6.59	60.25	53.66	74.00	-20.34		Peak
2	5150.000	8.39	32.61	-6.59	56.64	50.05	74.00	-23.95		Peak
3	5178.760	8.43	32.59	-6.58	105.01	98.43	74.00	24.43		Peak



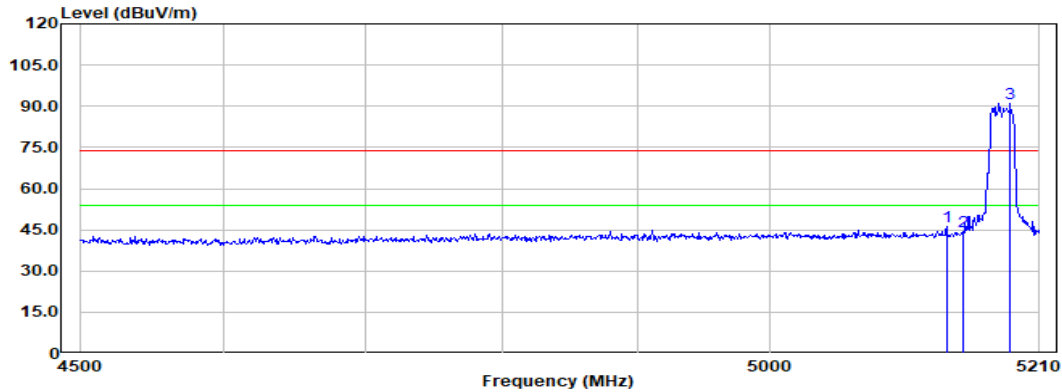
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5136.870	8.37	32.62	-6.60	52.61	46.01	74.00	-27.99	Peak
2	5150.000	8.39	32.61	-6.59	50.74	44.15	74.00	-29.85	Peak
3	5187.280	8.44	32.58	-6.59	97.57	90.98	74.00	16.98	Peak



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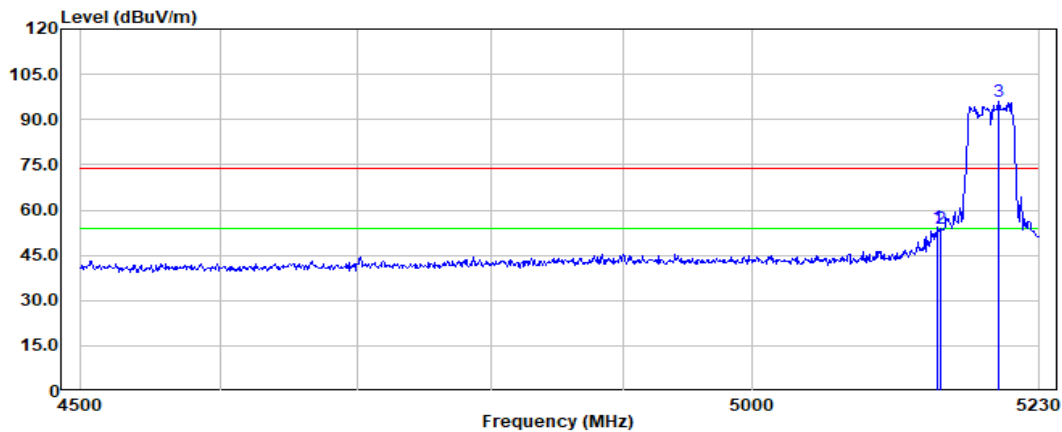
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	Level	FCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5146.780	8.39	32.61	-6.59	60.74	54.15	74.00	-19.85		Peak
2	5150.000	8.39	32.61	-6.59	60.48	53.89	74.00	-20.11		Peak
3	5196.420	8.45	32.57	-6.59	102.64	96.05	74.00	22.05		Peak



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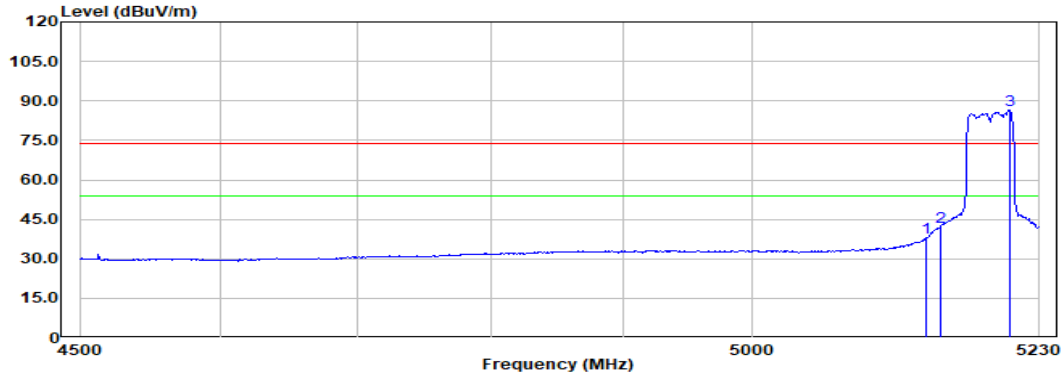
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5138.020	8.38	32.62	-6.59	44.70	38.11	54.00	-15.89	Average
2	5150.000	8.39	32.61	-6.59	48.61	42.02	54.00	-11.98	Average
3	5206.640	8.46	32.57	-6.56	92.84	86.28	54.00	32.28	Average



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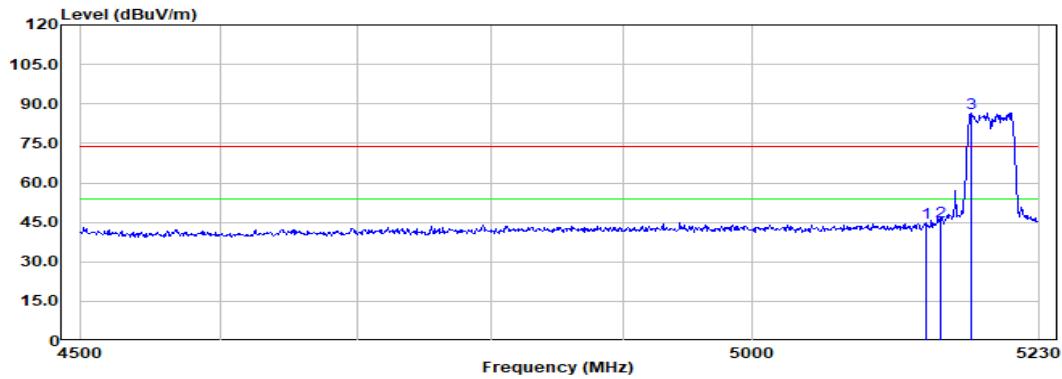
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLA	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5138.020	8.38	32.62	-6.59	51.61	45.02	74.00	-28.98	Peak
2	5150.000	8.39	32.61	-6.59	51.81	45.22	74.00	-28.78	Peak
3	5175.250	8.42	32.59	-6.59	93.18	86.59	74.00	12.59	Peak



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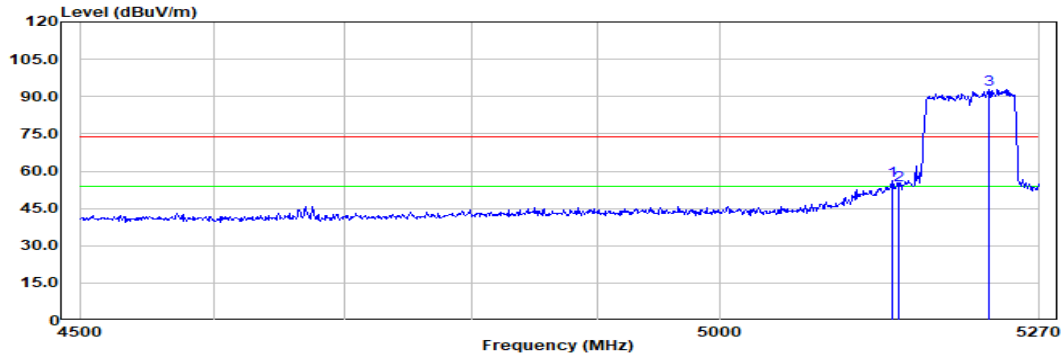
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m	CLA	FCC	
1	5143.720	8.38	32.62	-6.59	62.87	56.28	74.00	-17.72	Peak
2	5150.000	8.39	32.61	-6.59	61.03	54.44	74.00	-19.56	Peak
3	5226.880	8.49	32.56	-6.50	99.39	92.89	74.00	18.89	Peak



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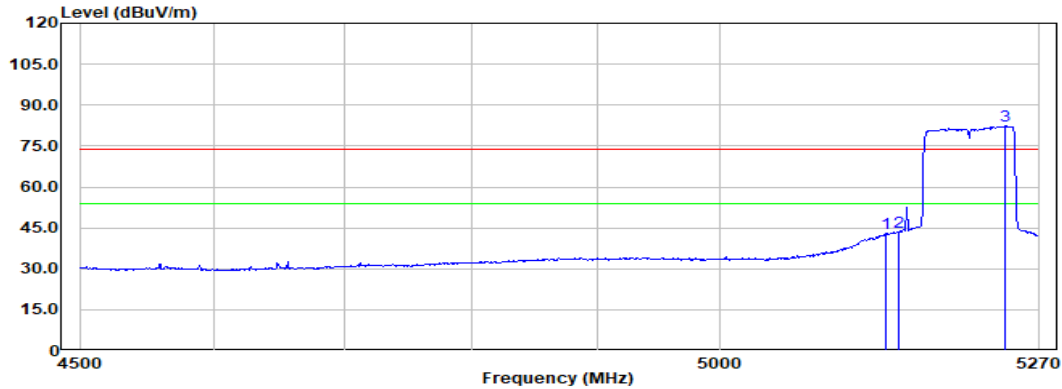
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5139.100	8.38	32.62	-6.59	49.57	42.98	54.00	-11.02	Average
2	5150.000	8.39	32.61	-6.59	50.13	43.54	54.00	-10.46	Average
3	5240.740	8.51	32.56	-6.45	88.80	82.35	54.00	28.35	Average



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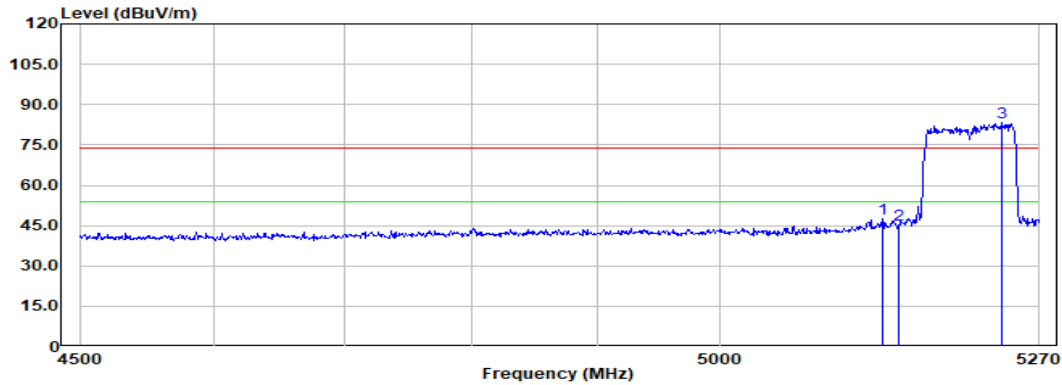
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5136.020	8.37	32.62	-6.60	54.04	47.44	74.00	-26.56	Peak
2	5150.000	8.39	32.61	-6.59	52.03	45.44	74.00	-28.56	Peak
3	5238.430	8.50	32.56	-6.46	89.64	83.18	74.00	9.18	Peak



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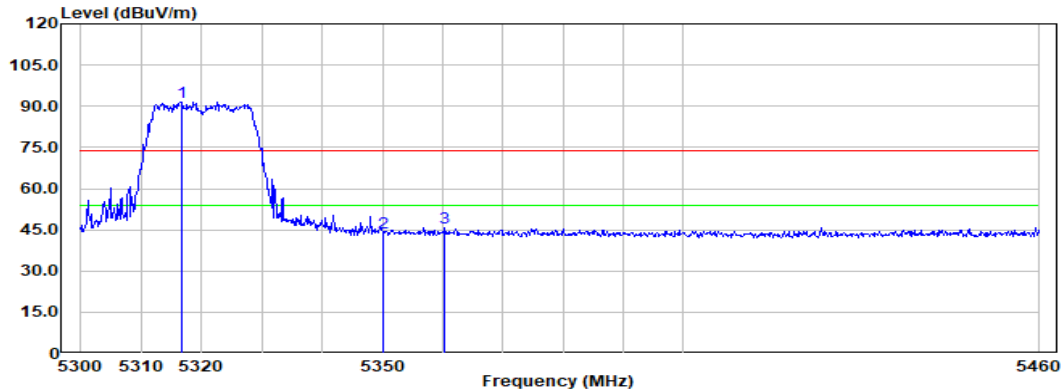
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5316.640	8.60	32.53	-6.21	97.90	91.69	74.00	17.69	Peak
2	5350.000	8.64	32.52	-6.10	50.20	44.10	74.00	-29.90	Peak
3	5360.320	8.66	32.52	-6.06	51.75	45.69	74.00	-28.31	Peak



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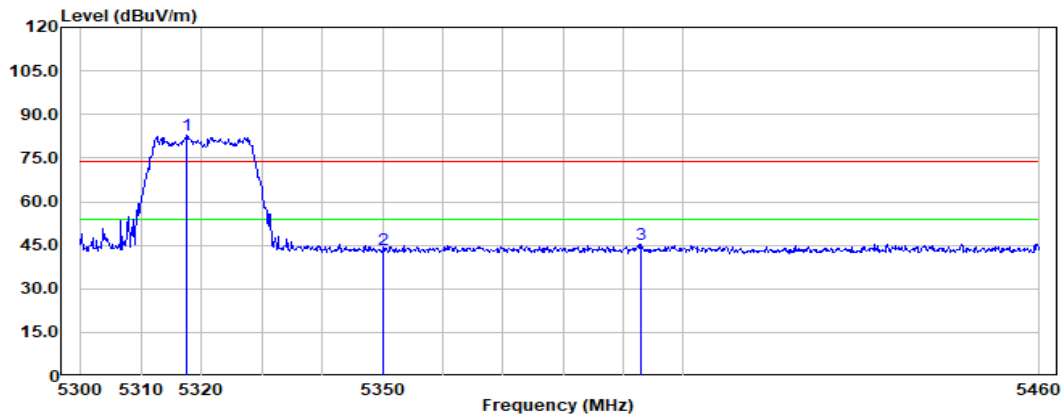
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5317.440	8.60	32.53	-6.21	88.97	82.76	74.00	8.76	Peak
2	5350.000	8.64	32.52	-6.10	49.63	43.53	74.00	-30.47	Peak
3	5393.120	8.70	32.50	-5.97	51.29	45.32	74.00	-28.68	Peak



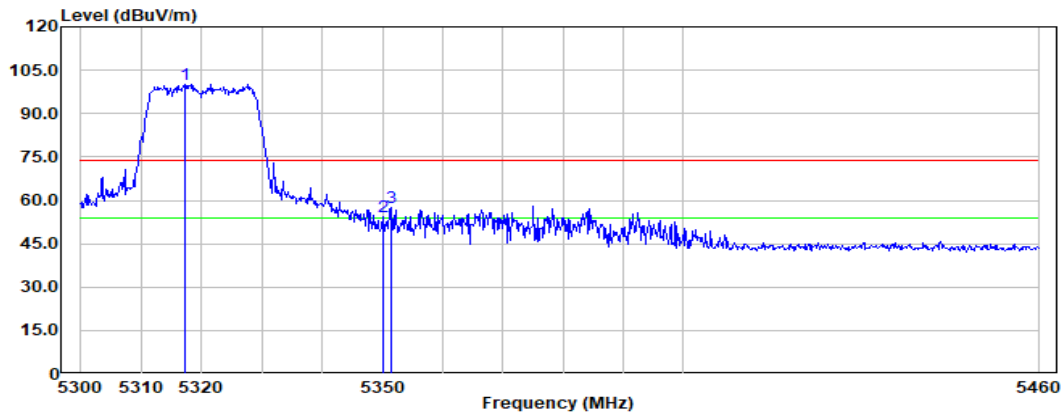
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5317.280	8.60	32.53	-6.21	106.40	100.19	74.00	26.19	Peak
2	5350.000	8.64	32.52	-6.10	60.49	54.39	74.00	-19.61	Peak
3	5351.520	8.65	32.52	-6.09	63.46	57.37	74.00	-16.63	Peak



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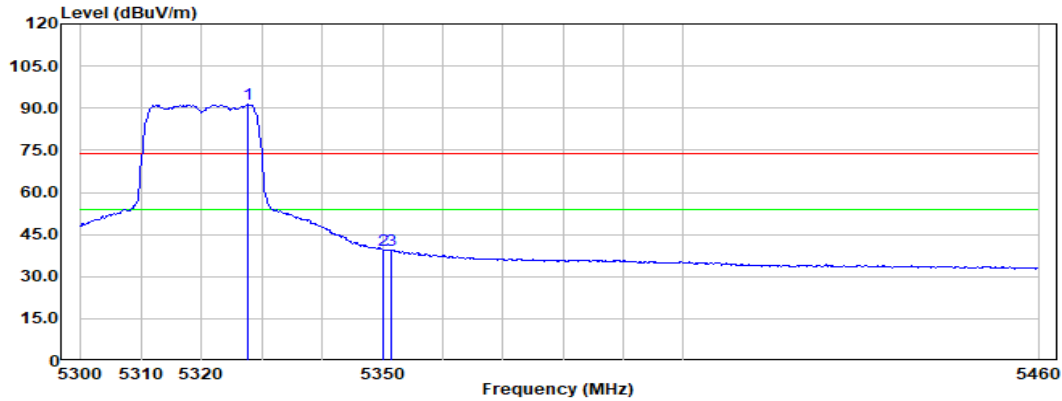
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5327.680	8.62	32.53	-6.17	97.45	91.28	54.00	37.28	Average
2	5350.000	8.64	32.52	-6.10	45.58	39.48	54.00	-14.52	Average
3	5351.520	8.65	32.52	-6.09	45.58	39.49	54.00	-14.51	Average



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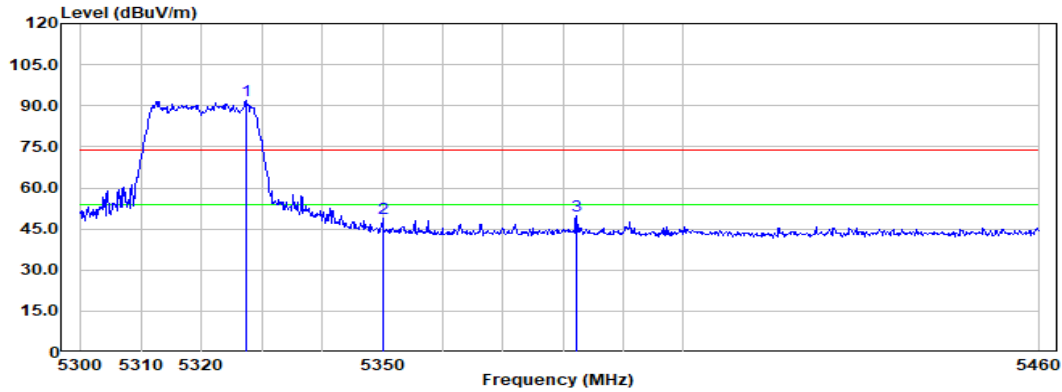
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5327.360	8.62	32.53	-6.17	97.93	91.76	74.00	17.76	Peak
2	5350.000	8.64	32.52	-6.10	54.98	48.88	74.00	-25.12	Peak
3	5382.240	8.69	32.51	-5.99	55.61	49.62	74.00	-24.38	Peak



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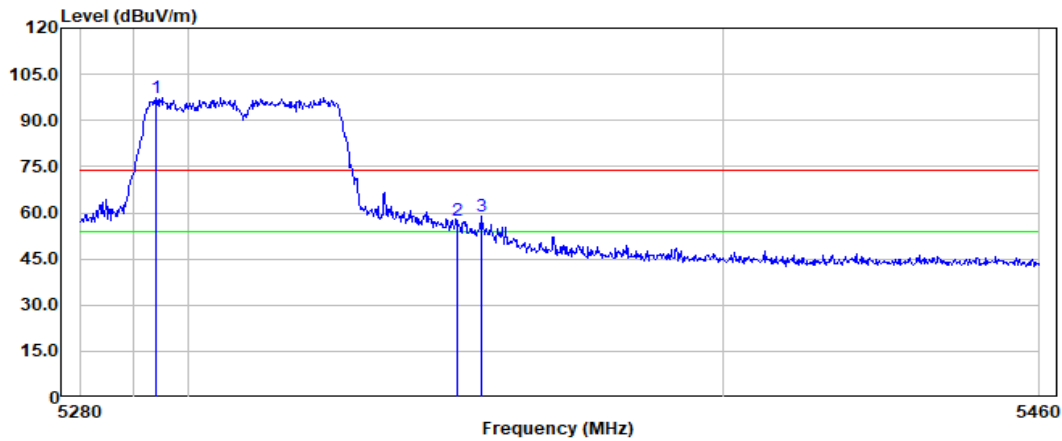
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5294.040	8.57	32.54	-6.28	103.65	97.37	74.00	23.37	Peak
2	5350.000	8.64	32.52	-6.10	63.62	57.52	74.00	-16.48	Peak
3	5354.700	8.65	32.52	-6.08	64.89	58.81	74.00	-15.19	Peak



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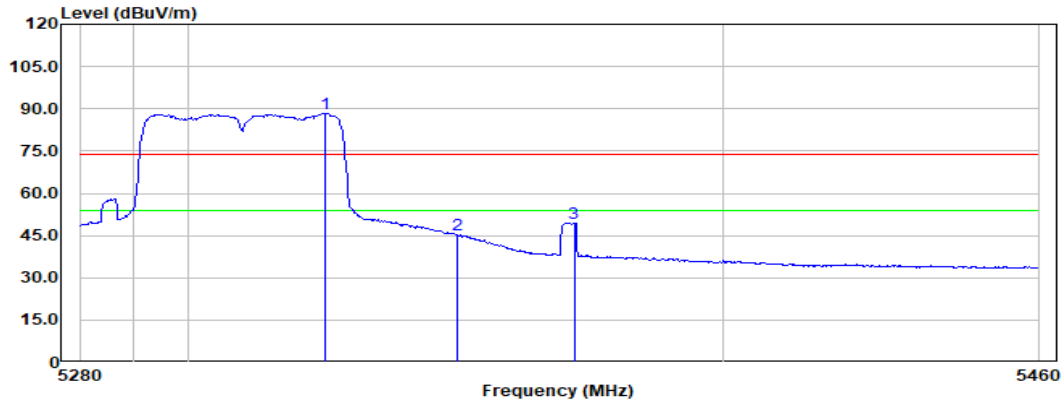
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLA	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5325.360	8.61	32.53	-6.18	94.70	88.52	54.00	34.52	Average
2	5350.000	8.64	32.52	-6.10	51.55	45.45	54.00	-8.55	Average
3	5371.980	8.67	32.51	-6.03	55.51	49.48	54.00	-4.52	Average



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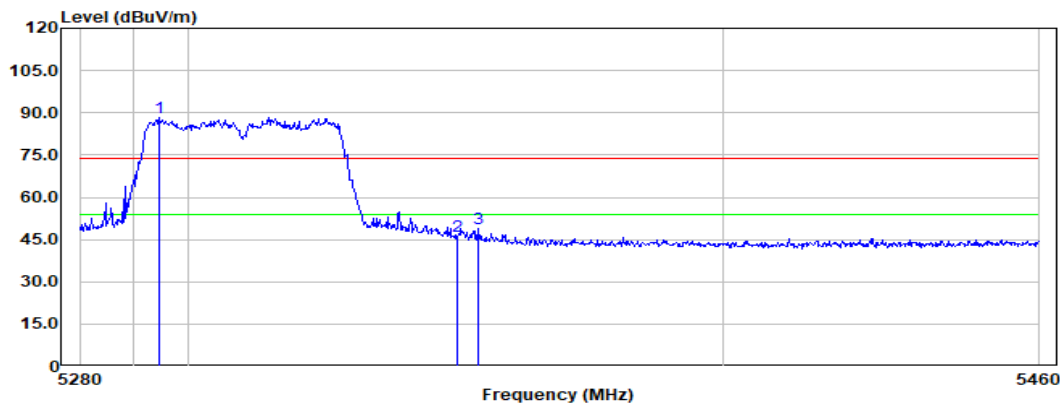
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLA	FCC CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5294.760	8.57	32.54	-6.28	94.63	88.35	74.00	14.35	Peak
2	5350.000	8.64	32.52	-6.10	52.38	46.28	74.00	-27.72	Peak
3	5353.980	8.65	32.52	-6.09	54.86	48.77	74.00	-25.23	Peak



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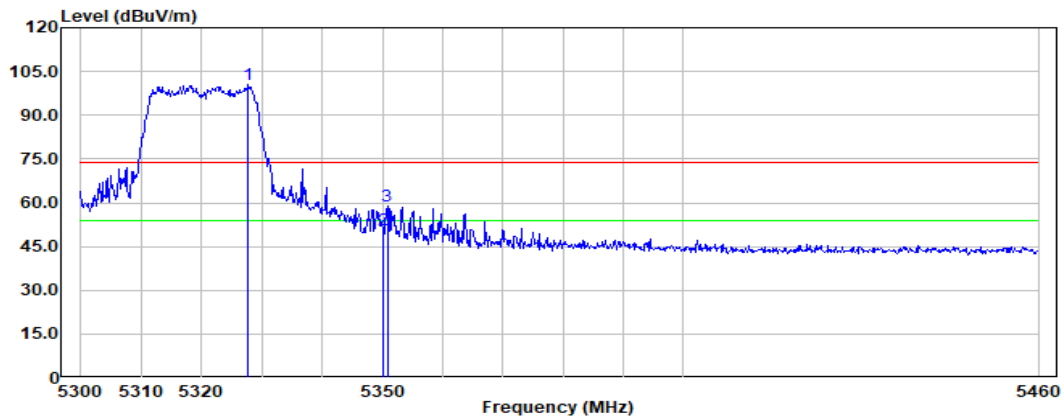
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5327.680	8.62	32.53	-6.17	106.80	100.63	74.00	26.63	Peak
2	5350.000	8.64	32.52	-6.10	56.91	50.81	74.00	-23.19	Peak
3	5350.720	8.65	32.52	-6.09	64.93	58.84	74.00	-15.16	Peak



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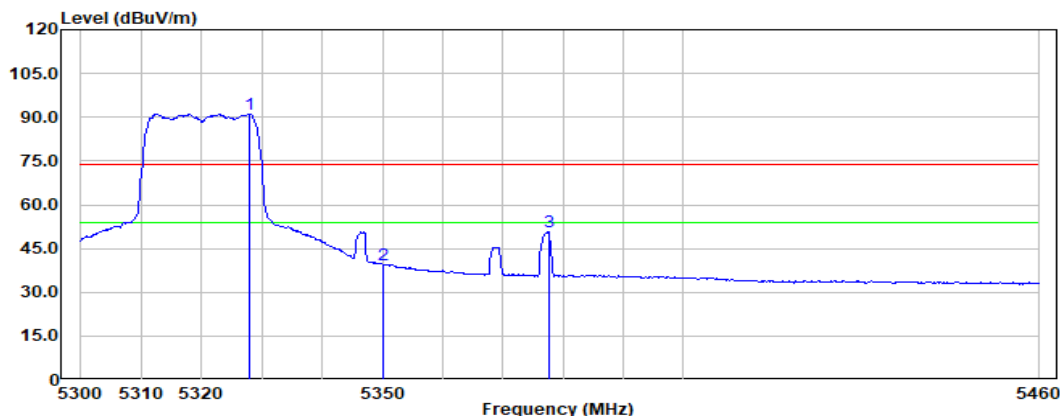
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5327.840	8.62	32.53	-6.17	97.27	91.10	54.00	37.10	Average
2	5350.000	8.64	32.52	-6.10	45.56	39.46	54.00	-14.54	Average
3	5377.600	8.68	32.51	-6.01	56.74	50.73	54.00	-3.27	Average



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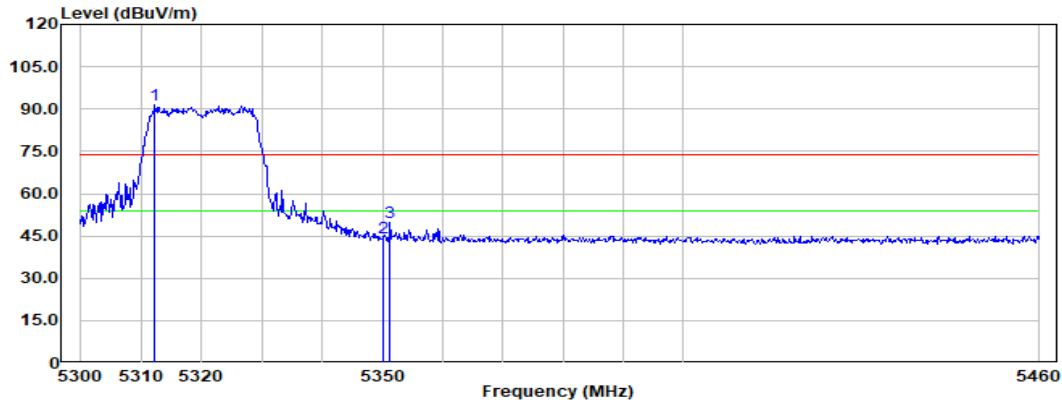
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLA	FCC CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5312.320	8.60	32.54	-6.21	97.67	91.46	74.00	17.46	Peak
2	5350.000	8.64	32.52	-6.10	50.48	44.38	74.00	-29.62	Peak
3	5351.200	8.65	32.52	-6.09	55.92	49.83	74.00	-24.17	Peak



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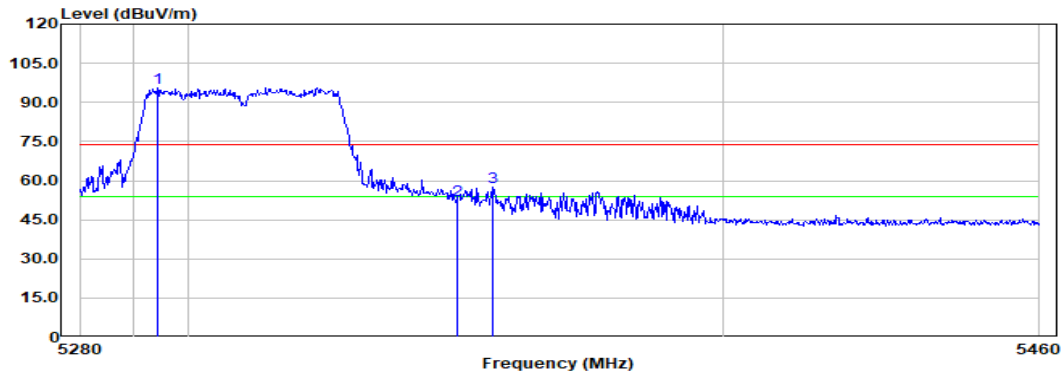
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5294.400	8.57	32.54	-6.28	102.05	95.77	74.00	21.77	Peak
2	5350.000	8.64	32.52	-6.10	58.76	52.66	74.00	-21.34	Peak
3	5356.860	8.65	32.52	-6.08	63.50	57.42	74.00	-16.58	Peak



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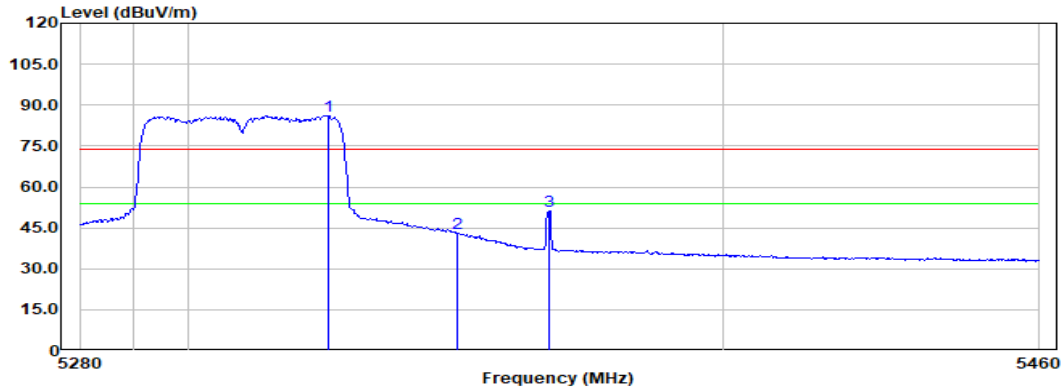
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5325.900	8.61	32.53	-6.18	92.40	86.22	54.00	32.22	Average
2	5350.000	8.64	32.52	-6.10	49.23	43.13	54.00	-10.87	Average
3	5367.300	8.67	32.51	-6.05	57.20	51.15	54.00	-2.85	Average



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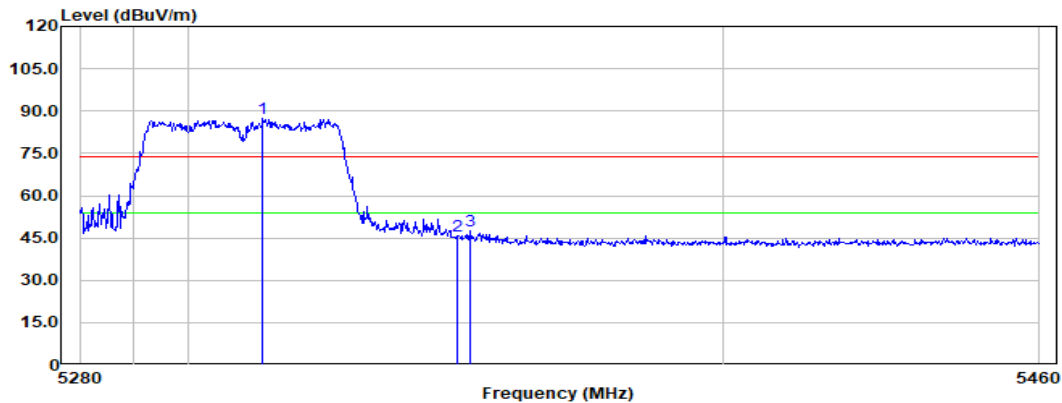
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLA	FCC CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5313.840	8.60	32.53	-6.22	93.66	87.44	74.00	13.44	Peak
2	5350.000	8.64	32.52	-6.10	51.81	45.71	74.00	-28.29	Peak
3	5352.360	8.65	32.52	-6.09	53.82	47.73	74.00	-26.27	Peak



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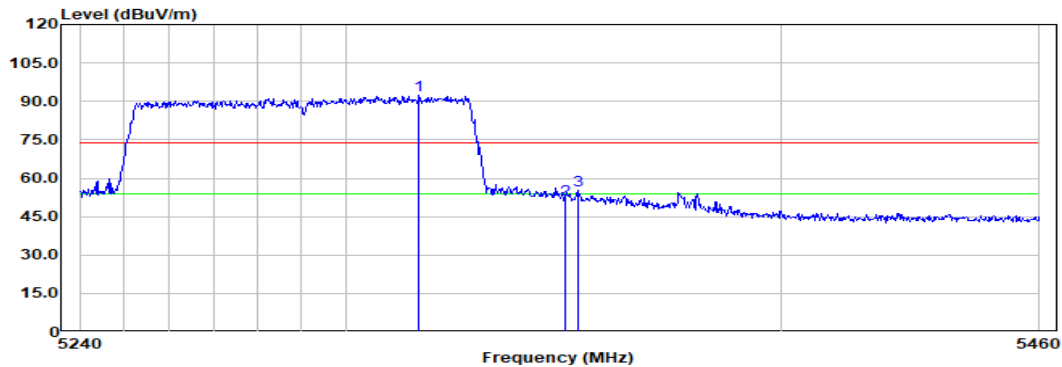
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5316.780	8.60	32.53	-6.21	98.47	92.26	74.00	18.26	Peak
2	5350.000	8.64	32.52	-6.10	57.81	51.71	74.00	-22.29	Peak
3	5353.300	8.65	32.52	-6.09	61.28	55.19	74.00	-18.81	Peak



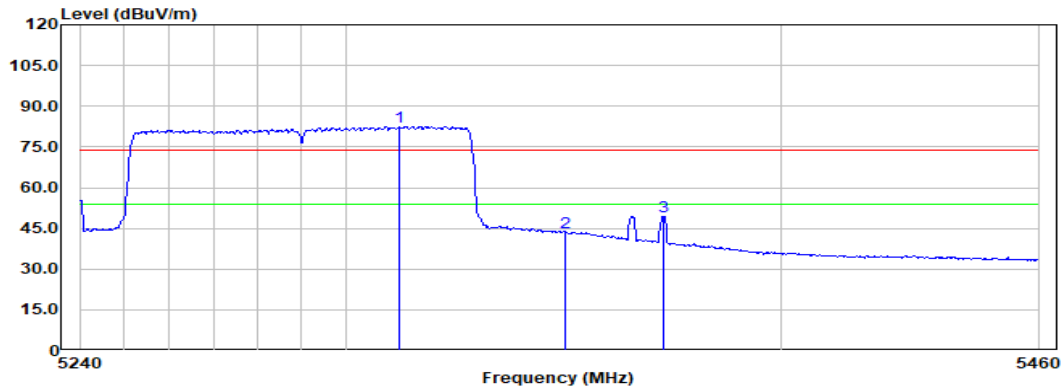
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5312.160	8.60	32.54	-6.21	88.81	82.60	54.00	28.60	Average
2	5350.000	8.64	32.52	-6.10	49.76	43.66	54.00	-10.34	Average
3	5372.880	8.67	32.51	-6.03	55.58	49.55	54.00	-4.45	Average



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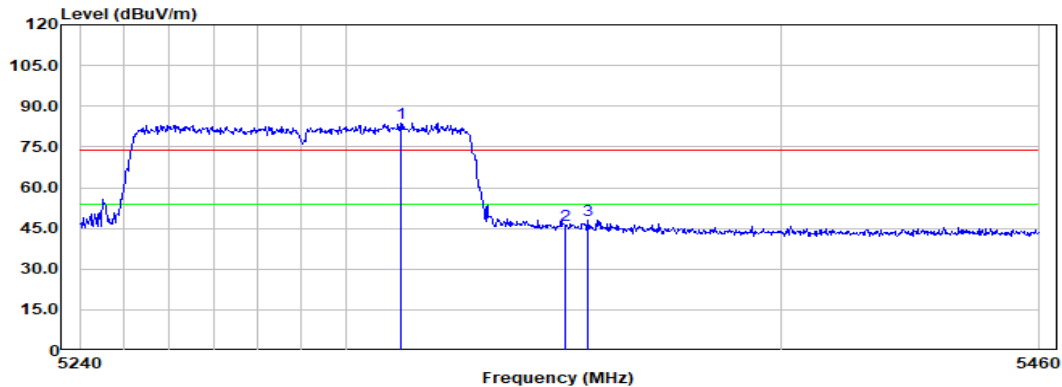
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5312.600	8.60	32.53	-6.22	89.87	83.65	74.00	9.65	Peak
2	5350.000	8.64	32.52	-6.10	52.42	46.32	74.00	-27.68	Peak
3	5355.500	8.65	32.52	-6.08	54.19	48.11	74.00	-25.89	Peak



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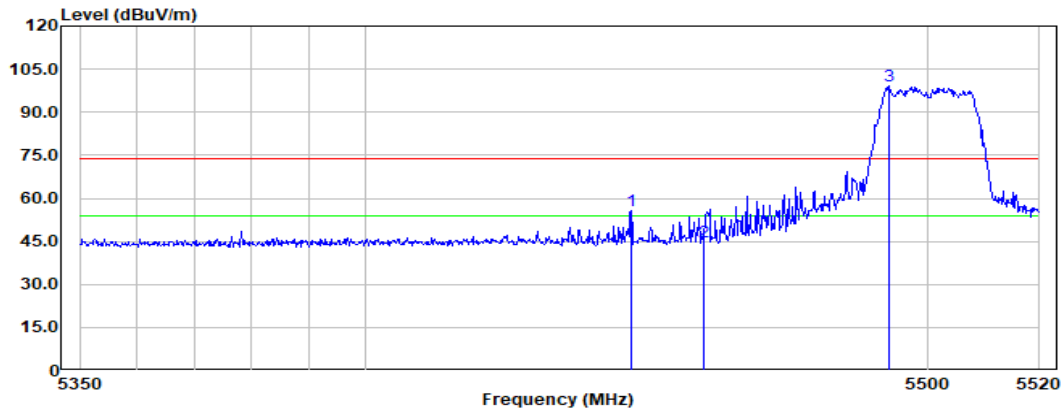
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m	CLAFCC		
1	5447.070	8.77	32.51	-5.89	61.42	55.53	74.00	-18.47	Peak
2	5460.000	8.78	32.51	-5.88	50.78	44.90	74.00	-29.10	Peak
3	5492.970	8.83	32.52	-5.83	104.83	99.00	74.00	25.00	Peak



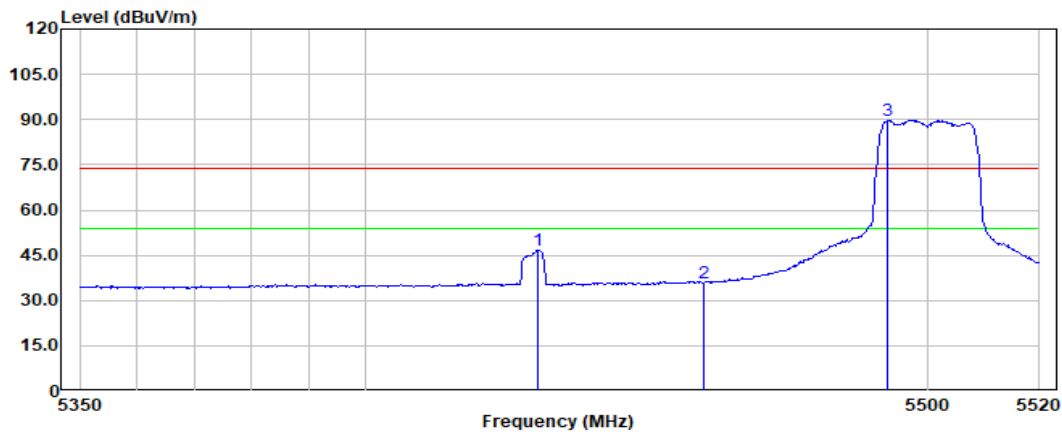
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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5430.580	8.75	32.51	-5.90	52.57	46.67	54.00	-7.33	Average
2	5460.000	8.78	32.51	-5.88	41.71	35.83	54.00	-18.17	Average
3	5492.800	8.83	32.52	-5.83	95.64	89.81	54.00	35.81	Average



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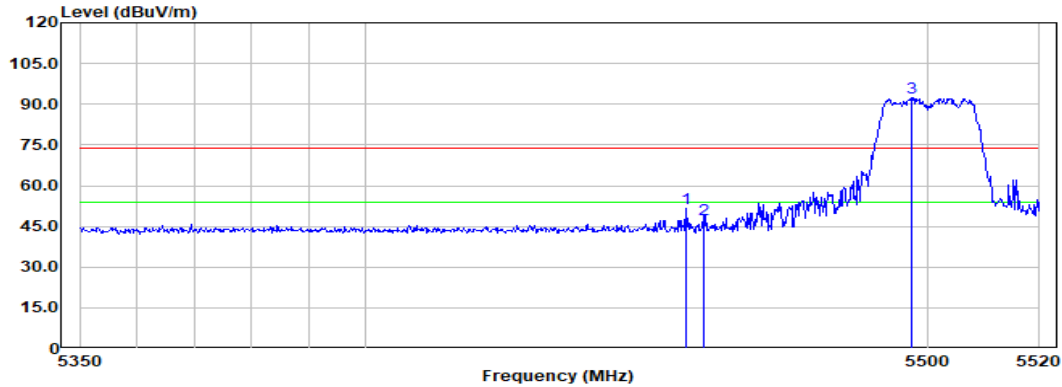
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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	CLA	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5456.760	8.78	32.51	-5.88	57.35	51.47	74.00	-22.53	Peak	
2	5460.000	8.78	32.51	-5.88	53.46	47.58	74.00	-26.42	Peak	
3	5497.220	8.83	32.52	-5.83	98.15	92.32	74.00	18.32	Peak	



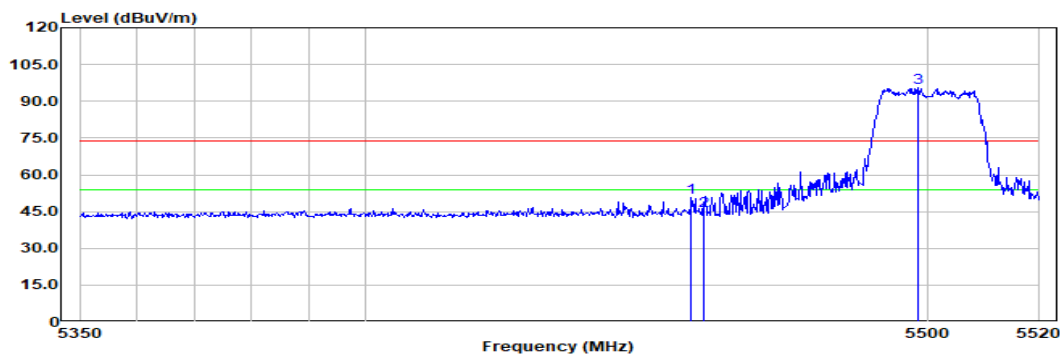
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable	Ant		Read		Over	
	MHz	Loss	Factor	Factor	Level	LevelFCC	CLAFCC	CLA
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m		
1	5457.780	8.78	32.51	-5.88	56.37	50.49	74.00	-23.51
2	5460.000	8.78	32.51	-5.88	51.01	45.13	74.00	-28.87
3	5498.240	8.83	32.52	-5.83	101.17	95.34	74.00	21.34



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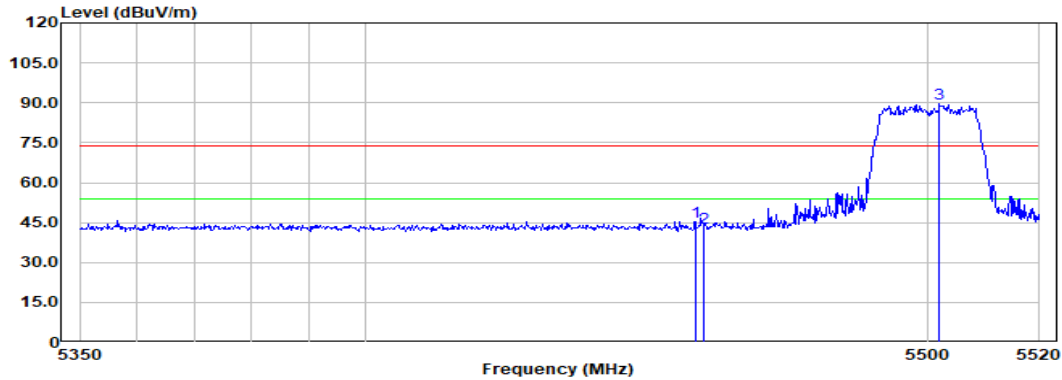
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m	CLAFCC	CLA	
1	5458.460	8.78	32.51	-5.88	51.37	45.49	74.00	-28.51	Peak
2	5460.000	8.78	32.51	-5.88	48.83	42.95	74.00	-31.05	Peak
3	5502.150	8.84	32.52	-5.83	95.28	89.45	74.00	15.45	Peak



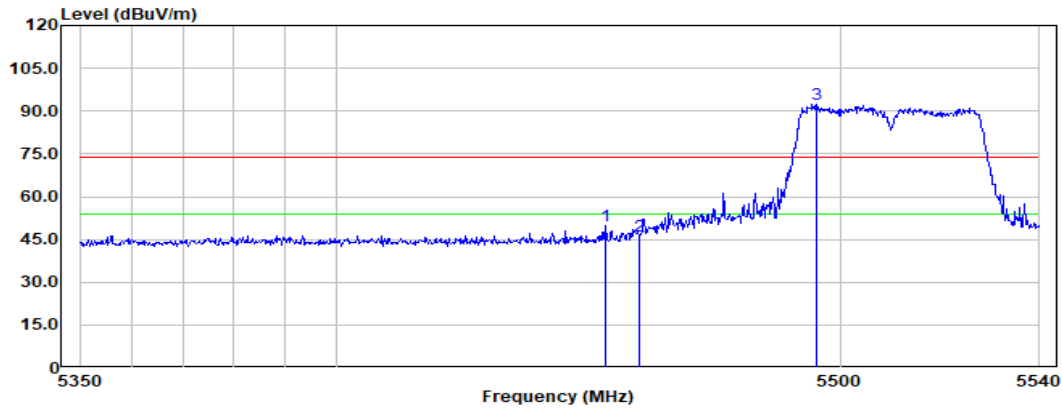
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5453.170	8.77	32.51	-5.89	55.83	49.94	74.00	-24.06	Peak
2	5460.000	8.78	32.51	-5.88	52.06	46.18	74.00	-27.82	Peak
3	5495.350	8.83	32.52	-5.83	98.42	92.59	74.00	18.59	Peak



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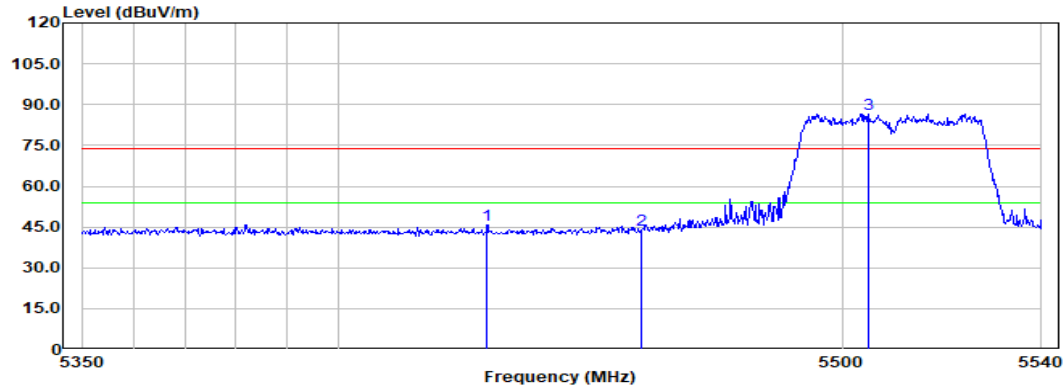
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5429.420	8.74	32.51	-5.91	51.53	45.62	74.00	-28.38	Peak
2	5460.000	8.78	32.51	-5.88	49.95	44.07	74.00	-29.93	Peak
3	5505.420	8.84	32.53	-5.82	92.40	86.58	74.00	12.58	Peak



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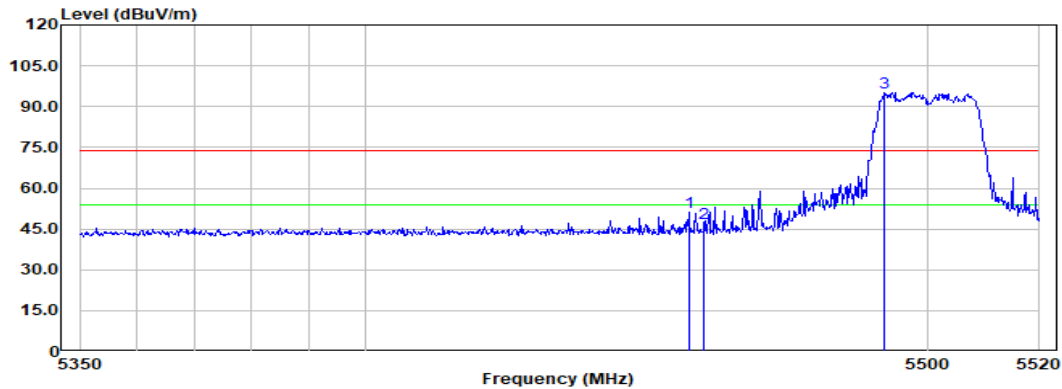
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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5457.270	8.78	32.51	-5.88	57.17	51.29	74.00	-22.71	Peak
2	5460.000	8.78	32.51	-5.88	53.05	47.17	74.00	-26.83	Peak
3	5492.120	8.82	32.52	-5.84	101.14	95.30	74.00	21.30	Peak



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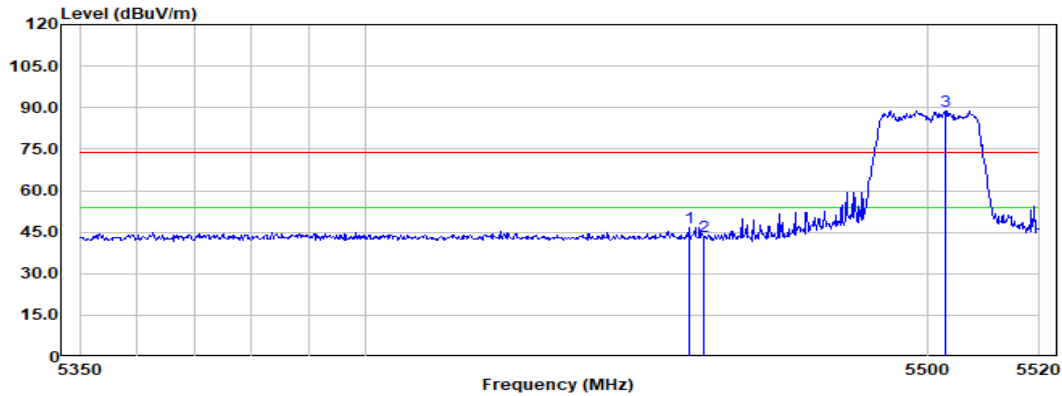
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLAFCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5457.270	8.78	32.51	-5.88	52.31	46.43	74.00	-27.57	Peak
2	5460.000	8.78	32.51	-5.88	49.40	43.52	74.00	-30.48	Peak
3	5503.170	8.84	32.52	-5.83	94.81	88.98	74.00	14.98	Peak



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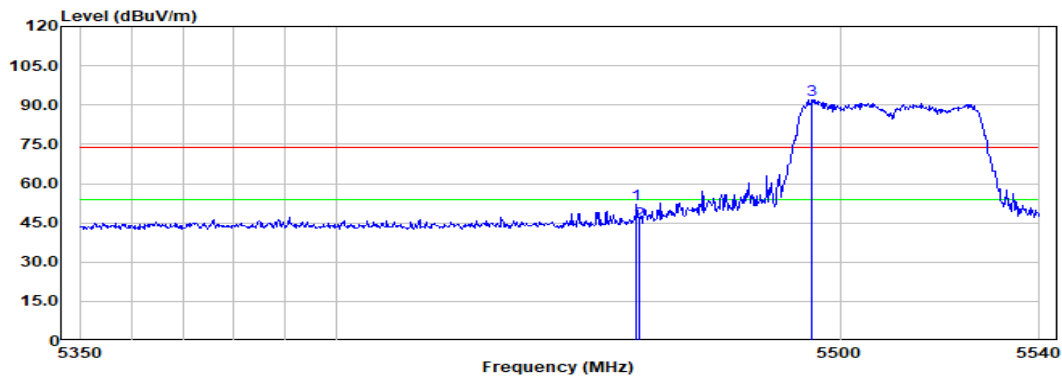
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLA FCC	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5459.440	8.78	32.51	-5.88	57.84	51.96	74.00	-22.04	Peak
2	5460.000	8.78	32.51	-5.88	51.09	45.21	74.00	-28.79	Peak
3	5494.400	8.83	32.52	-5.83	97.91	92.08	74.00	18.08	Peak



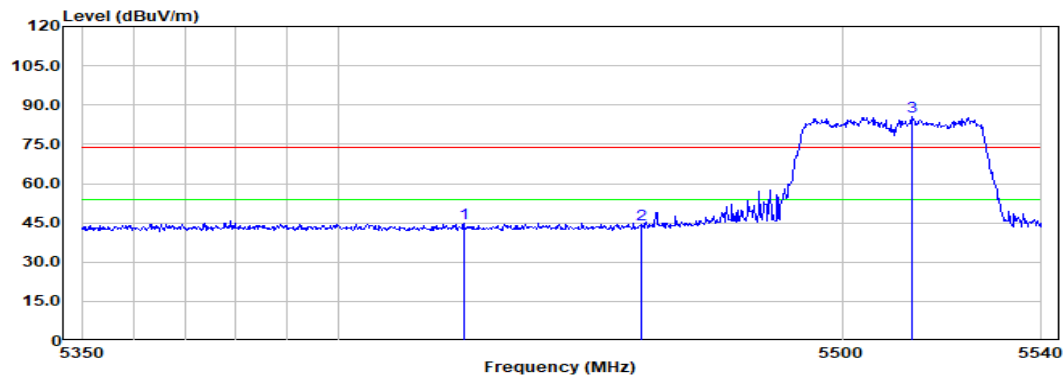
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	CLA	Over CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5424.860	8.74	32.50	-5.92	50.82	44.90	74.00	-29.10	Peak
2	5460.000	8.78	32.51	-5.88	50.46	44.58	74.00	-29.42	Peak
3	5514.160	8.85	32.54	-5.80	91.39	85.59	74.00	11.59	Peak



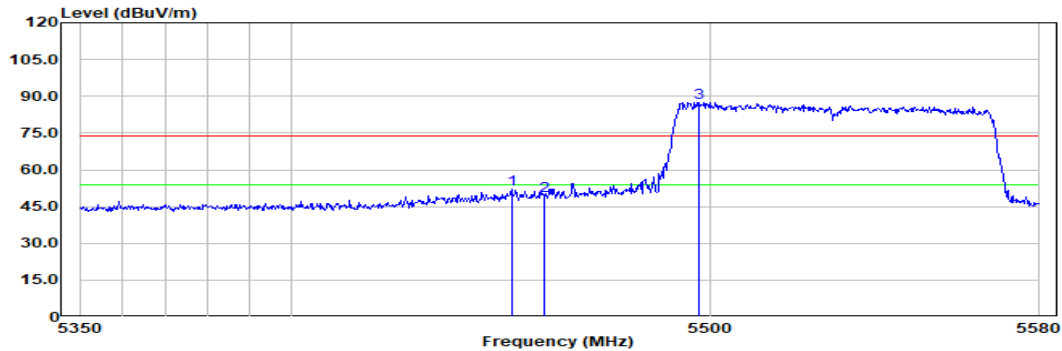
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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	Over	CLA FCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5452.350	8.77	32.51	-5.89	58.00	52.11	74.00	-21.89	Peak	
2	5460.000	8.78	32.51	-5.88	55.07	49.19	74.00	-24.81	Peak	
3	5497.430	8.83	32.52	-5.83	93.45	87.62	74.00	13.62	Peak	



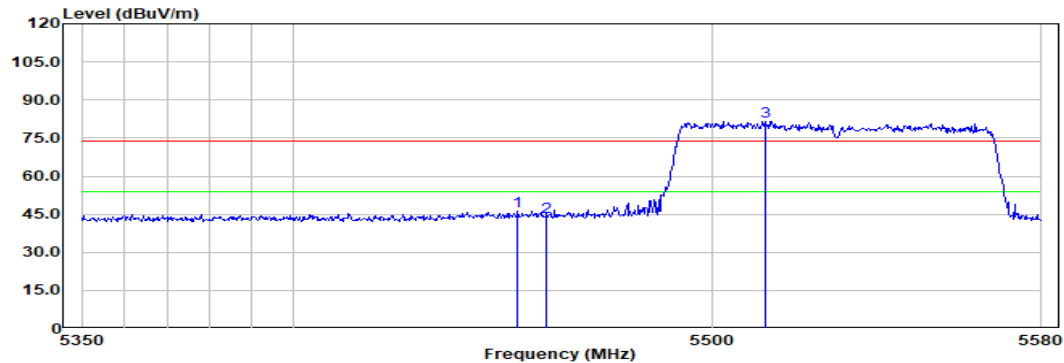
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	Level	FCC	CLAFCC	CLA	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5453.270	8.77	32.51	-5.89	52.26	46.37	74.00	-27.63		Peak
2	5460.000	8.78	32.51	-5.88	49.98	44.10	74.00	-29.90		Peak
3	5513.070	8.85	32.53	-5.81	87.39	81.58	74.00	7.58		Peak



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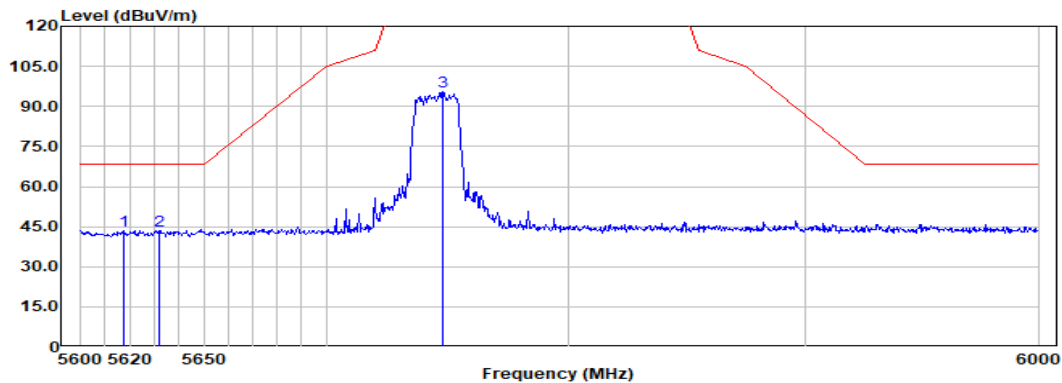
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5617.600	8.94	32.70	-5.56	49.02	43.46	68.20	-24.74		Peak
2	5632.000	8.95	32.76	-5.48	49.17	43.69	68.20	-24.51		Peak
3	5748.000	9.01	33.26	-4.79	100.40	95.61	135.00	-39.39		Peak



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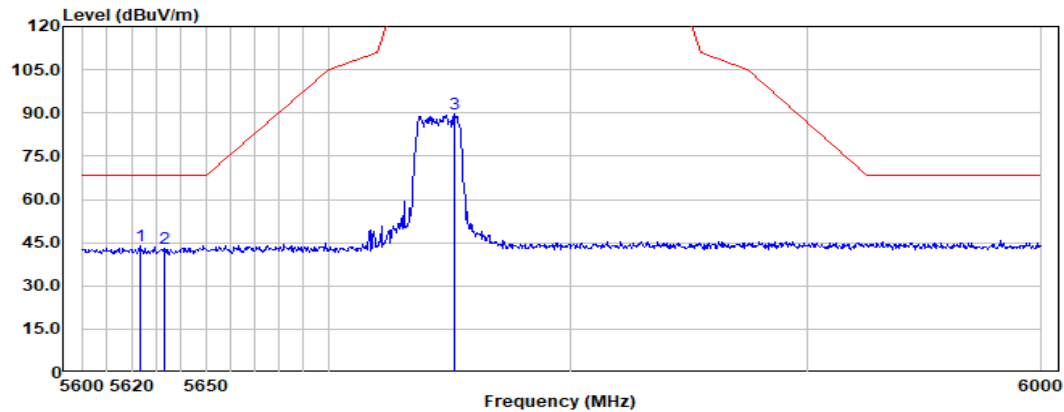
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5623.200	8.94	32.73	-5.53	49.27	43.74	68.20	-24.46	Peak	
2	5633.200	8.95	32.77	-5.47	48.66	43.19	68.20	-25.01	Peak	
3	5752.000	9.01	33.28	-4.77	94.24	89.47	135.00	-45.53	Peak	



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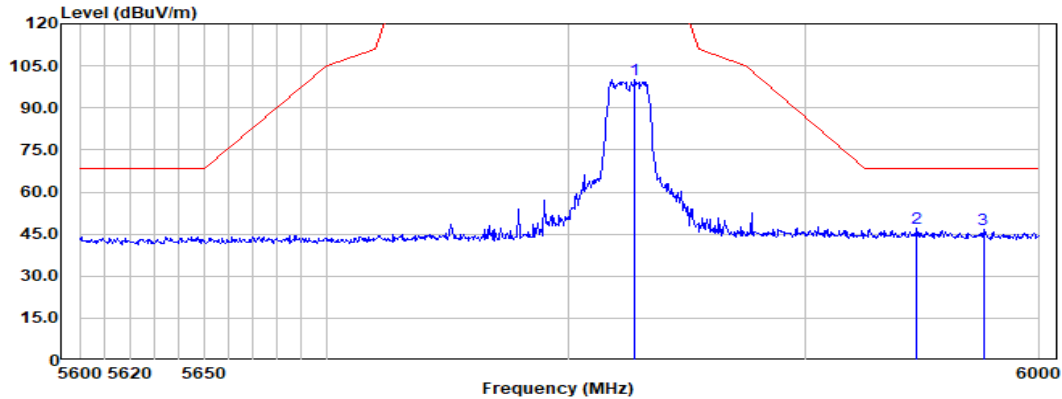
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	5828.000	9.05	33.53	-4.48	104.49	100.01	135.00	-34.99	Peak		
2	5947.600	9.11	33.54	-4.63	51.88	47.25	68.20	-20.95	Peak		
3	5976.000	9.13	33.50	-4.71	51.34	46.63	68.20	-21.57	Peak		



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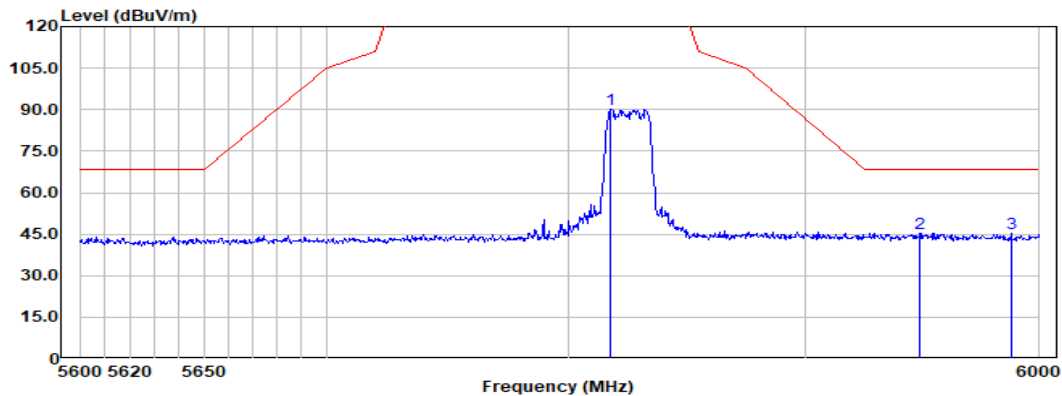
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	5817.600	9.04	33.52	-4.48	94.54	90.06	135.00	-44.94			Peak
2	5948.800	9.11	33.54	-4.64	49.96	45.32	68.20	-22.88			Peak
3	5988.000	9.13	33.49	-4.74	50.12	45.38	68.20	-22.82			Peak



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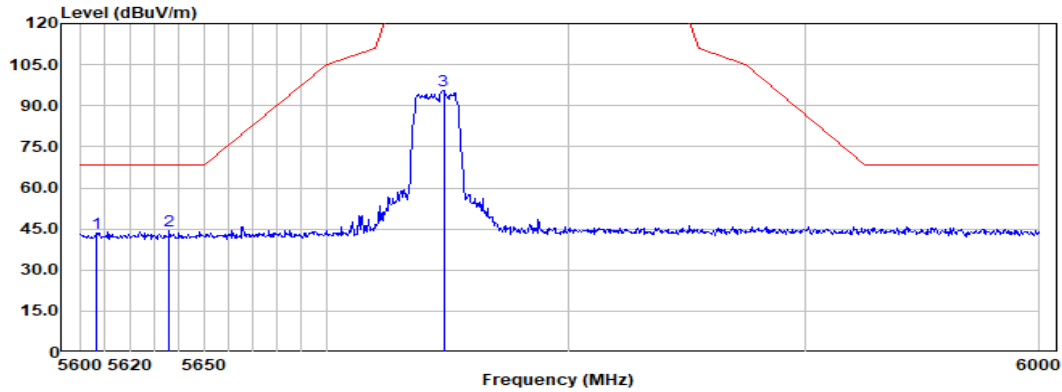
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5606.800	8.93	32.66	-5.62	49.31	43.69	68.20	-24.51		Peak
2	5636.000	8.95	32.78	-5.45	49.64	44.19	68.20	-24.01		Peak
3	5748.400	9.01	33.26	-4.79	100.51	95.72	135.00	-39.28		Peak



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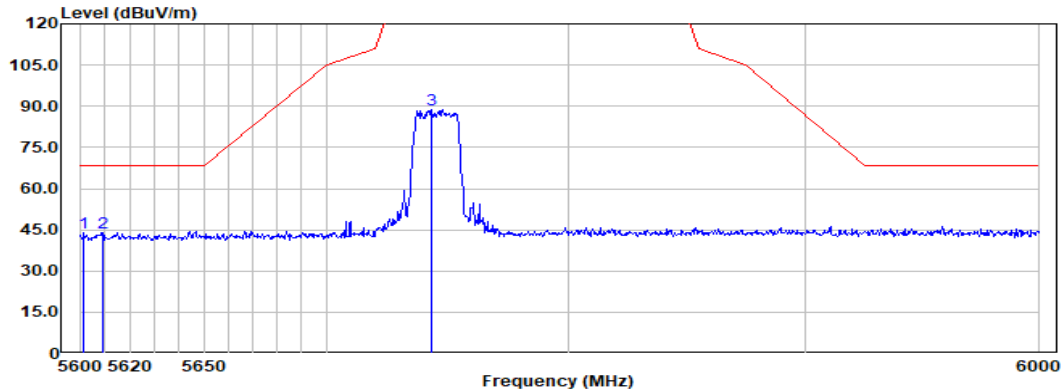
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5601.600	8.93	32.64	-5.65	49.65	44.00	68.20	-24.20		Peak
2	5609.200	8.94	32.67	-5.60	49.44	43.84	68.20	-24.36		Peak
3	5743.200	9.01	33.24	-4.82	93.69	88.87	135.00	-46.13		Peak



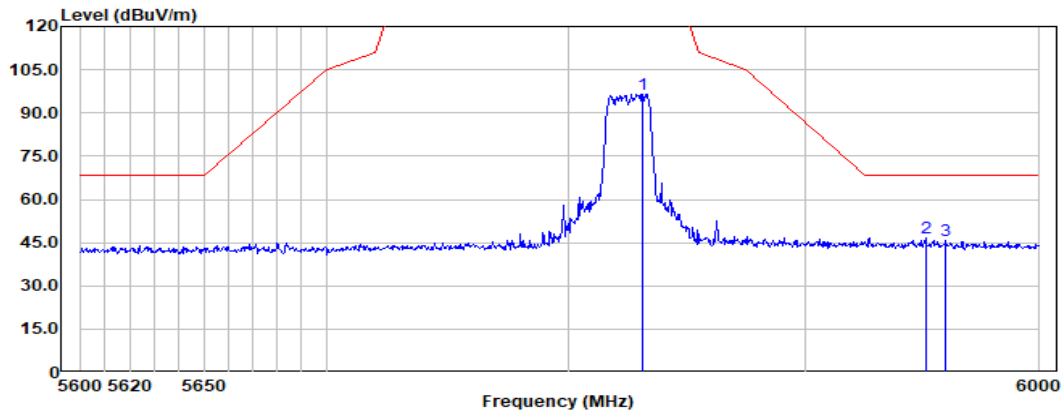
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5831.200	9.05	33.53	-4.49	101.17	96.68	135.00	-38.32		Peak
2	5951.200	9.11	33.53	-4.65	51.36	46.71	68.20	-21.49		Peak
3	5960.000	9.12	33.52	-4.67	50.54	45.87	68.20	-22.33		Peak



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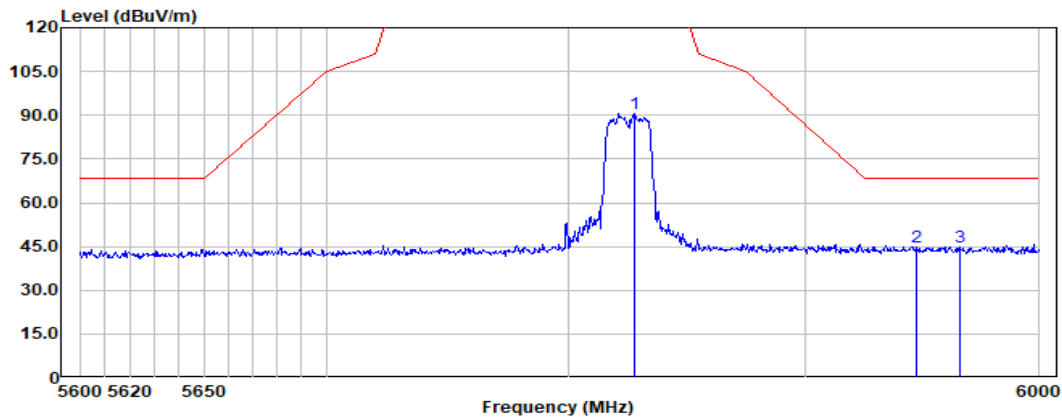
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5828.000	9.05	33.53	-4.48	94.85	90.37	135.00	-44.63		Peak
2	5947.200	9.11	33.54	-4.63	49.57	44.94	68.20	-23.26		Peak
3	5966.000	9.12	33.51	-4.69	49.73	45.04	68.20	-23.16		Peak



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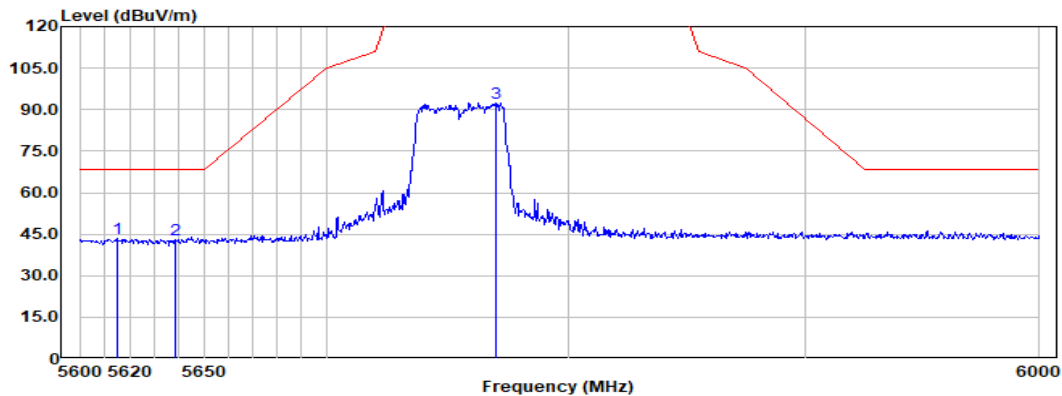
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	Level FCC 5G	Over 5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m		
1	5614.800	8.94	32.69	-5.57	48.86	43.29	68.20	-24.91 Peak
2	5638.400	8.95	32.79	-5.44	48.56	43.12	68.20	-25.08 Peak
3	5770.000	9.02	33.36	-4.66	97.20	92.54	135.00	-42.46 Peak



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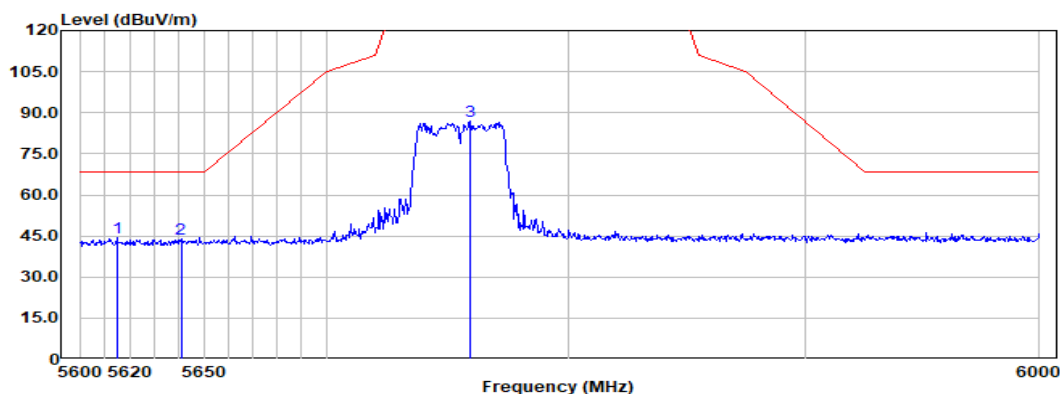
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5614.800	8.94	32.69	-5.57	49.73	44.16	68.20	-24.04		Peak
2	5640.800	8.95	32.80	-5.43	49.54	44.11	68.20	-24.09		Peak
3	5759.200	9.01	33.31	-4.73	91.68	86.95	135.00	-48.05		Peak



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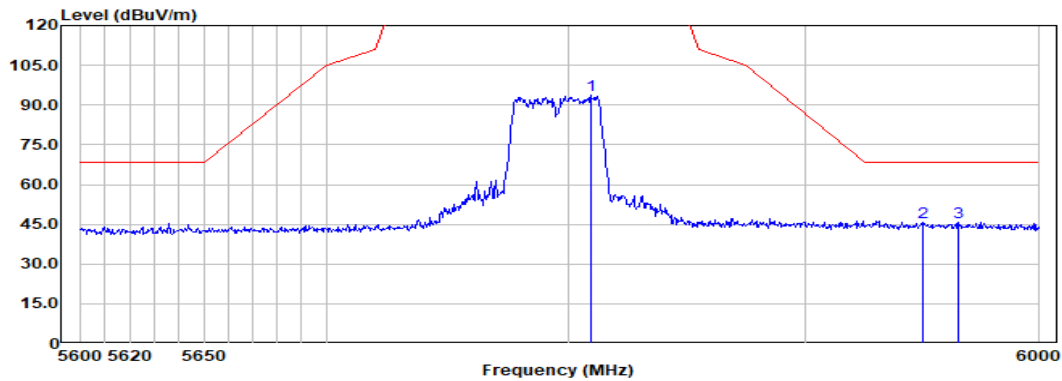
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5809.600	9.04	33.51	-4.48	98.17	93.69	135.00	-41.31		Peak
2	5950.000	9.11	33.53	-4.65	50.52	45.87	68.20	-22.33		Peak
3	5965.600	9.12	33.51	-4.69	50.32	45.63	68.20	-22.57		Peak



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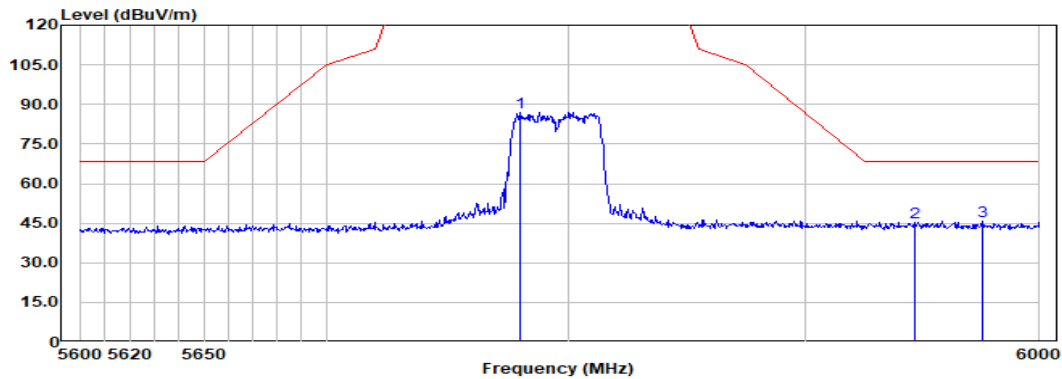
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5780.400	9.03	33.41	-4.59	91.60	87.01	135.00	-47.99		Peak
2	5946.800	9.11	33.54	-4.63	50.08	45.45	68.20	-22.75		Peak
3	5975.600	9.13	33.50	-4.70	50.34	45.64	68.20	-22.56		Peak



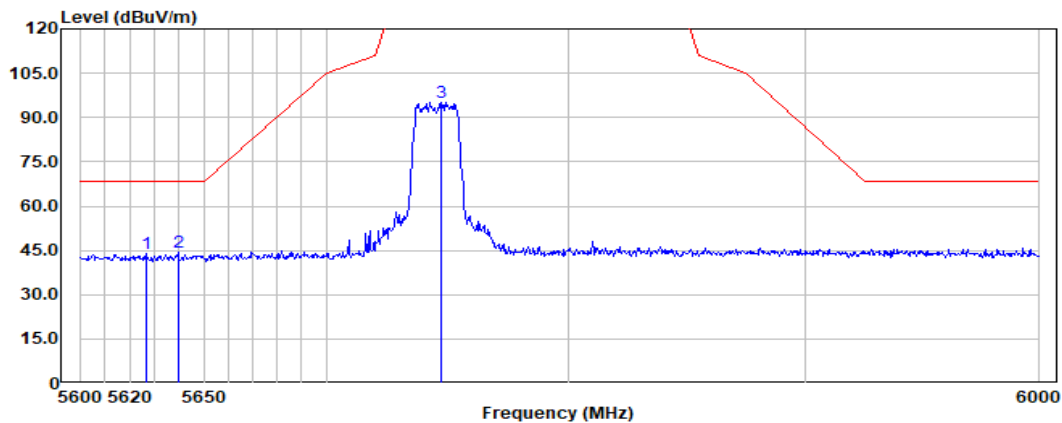
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5626.800	8.94	32.74	-5.51	49.42	43.91	68.20	-24.29	Peak
2	5639.600	8.95	32.79	-5.44	49.67	44.23	68.20	-23.97	Peak
3	5747.200	9.01	33.26	-4.80	99.95	95.15	135.00	-39.85	Peak



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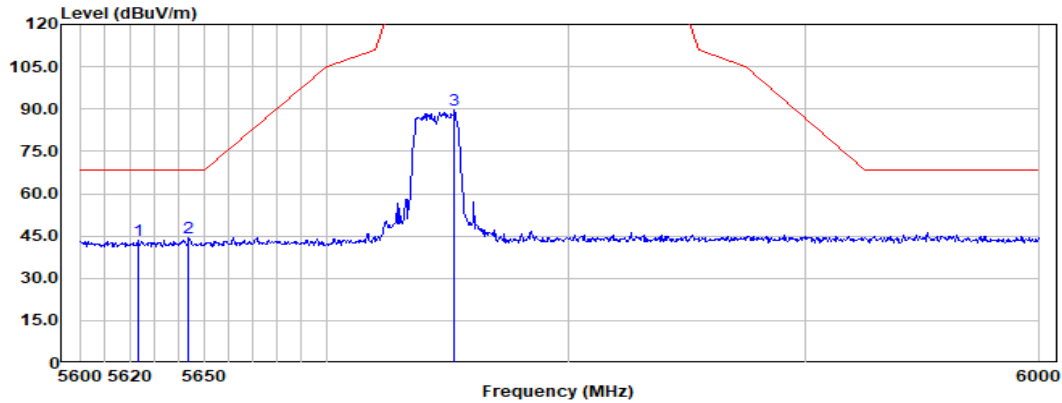
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5623.200	8.94	32.73	-5.53	48.81	43.28	68.20	-24.92		Peak
2	5644.000	8.95	32.81	-5.41	49.67	44.26	68.20	-23.94		Peak
3	5752.800	9.01	33.28	-4.77	94.56	89.79	135.00	-45.21		Peak



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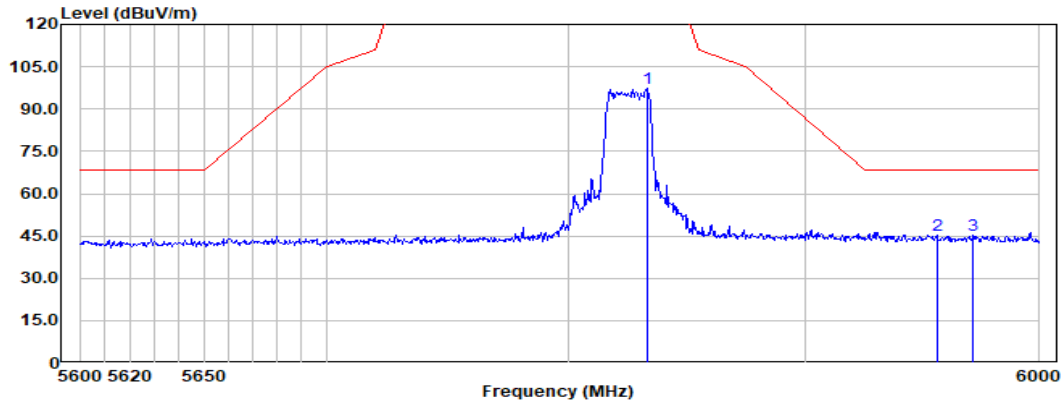
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5833.200	9.05	33.53	-4.49	101.69	97.20	135.00	-37.80		Peak
2	5956.000	9.12	33.53	-4.65	50.08	45.43	68.20	-22.77		Peak
3	5971.600	9.13	33.51	-4.69	49.98	45.29	68.20	-22.91		Peak



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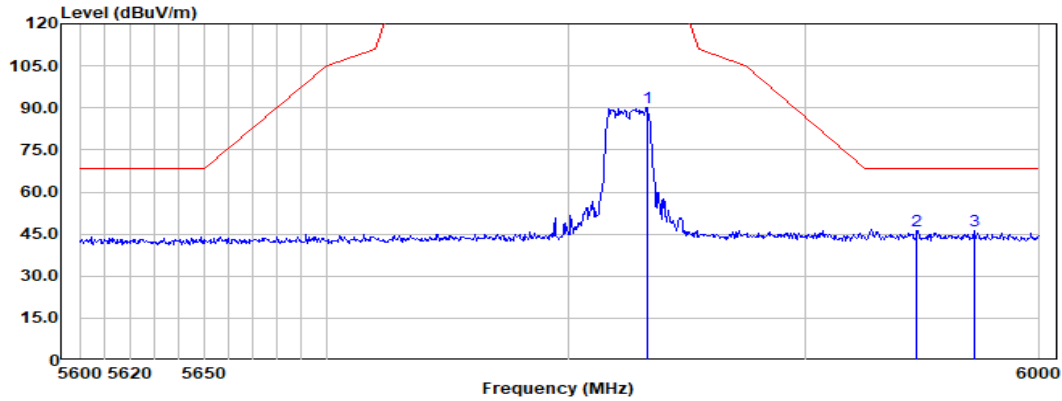
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	5833.200	9.05	33.53	-4.49	94.73	90.24	135.00	-44.76	Peak		
2	5947.600	9.11	33.54	-4.63	50.87	46.24	68.20	-21.96	Peak		
3	5972.000	9.13	33.51	-4.69	50.93	46.24	68.20	-21.96	Peak		



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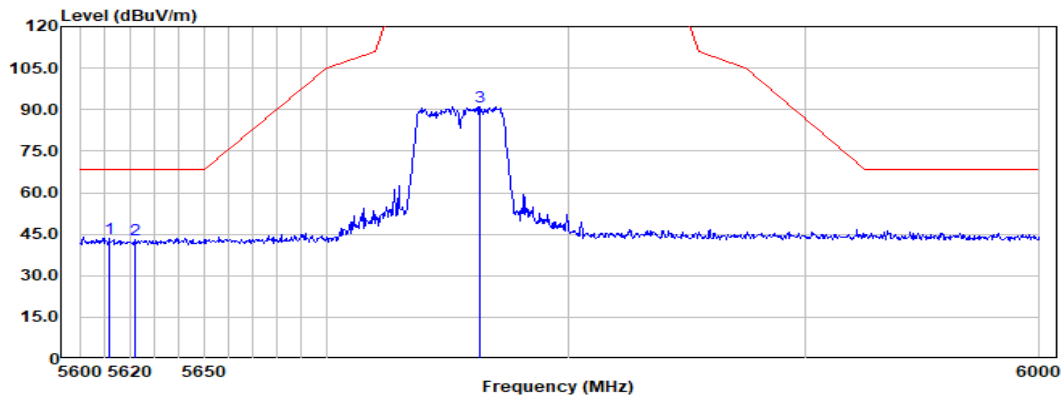
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t/(86-512)57355888 f/(86-512)57370818 sgs.china@sgs.com

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



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	5611.600	8.94	32.68	-5.59	49.28	43.69	68.20	-24.51			Peak
2	5622.400	8.94	32.72	-5.54	48.78	43.24	68.20	-24.96			Peak
3	5763.600	9.02	33.33	-4.70	95.64	90.94	135.00	-44.06			Peak



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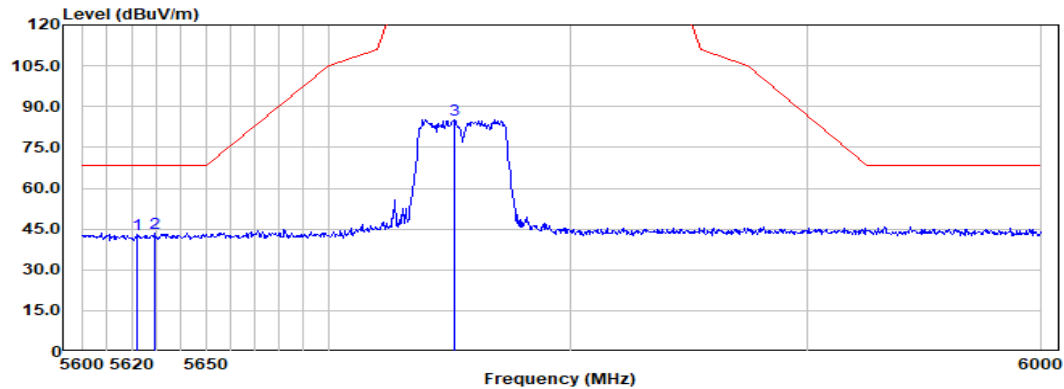
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5622.000	8.94	32.72	-5.54	48.75	43.21	68.20	-24.99		Peak
2	5629.600	8.95	32.75	-5.49	49.11	43.62	68.20	-24.58		Peak
3	5752.000	9.01	33.28	-4.77	89.99	85.22	135.00	-49.78		Peak



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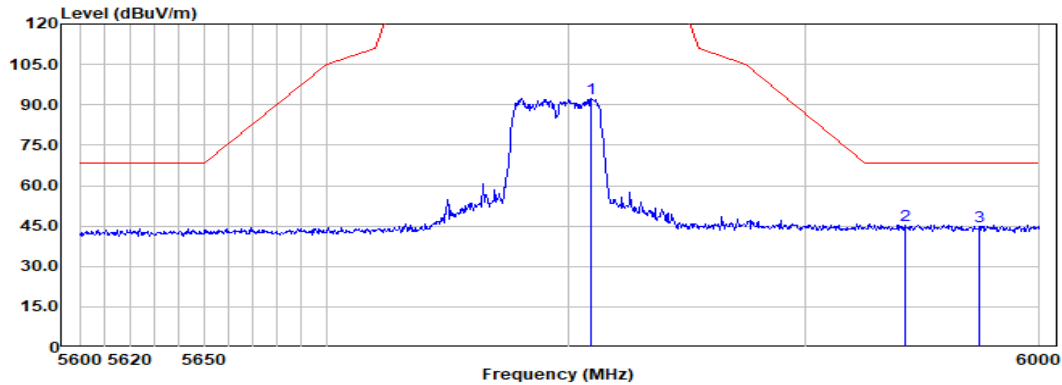
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	5810.000	9.04	33.51	-4.48	96.89	92.41	135.00	-42.59	Peak		
2	5942.400	9.11	33.54	-4.62	49.87	45.25	68.20	-22.95	Peak		
3	5974.400	9.13	33.50	-4.70	49.63	44.93	68.20	-23.27	Peak		



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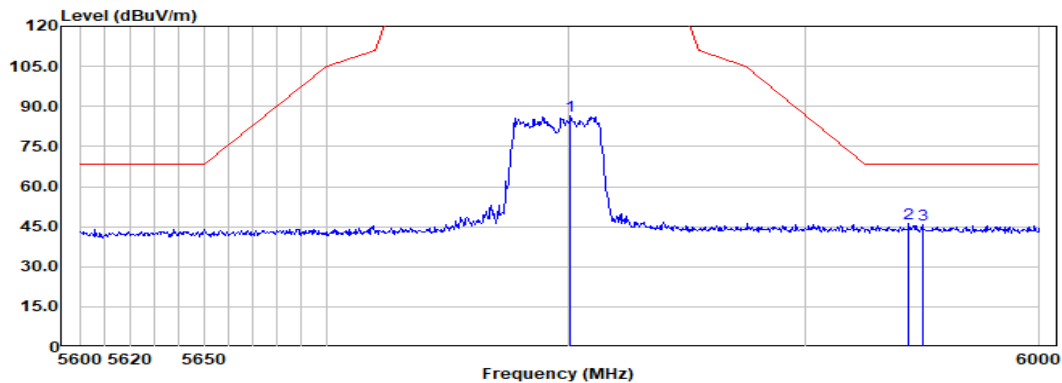
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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m			
1	5801.200	9.04	33.50	-4.47	90.76	86.29	135.00	-48.71	Peak
2	5944.000	9.11	33.54	-4.63	50.62	45.99	68.20	-22.21	Peak
3	5950.000	9.11	33.53	-4.65	50.48	45.83	68.20	-22.37	Peak



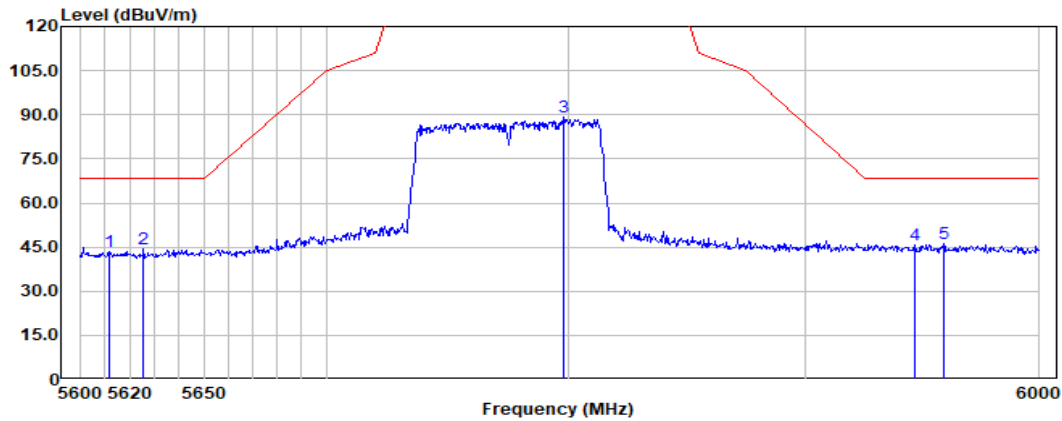
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m					
1	5611.600	8.94	32.68	-5.59	49.04	43.45	68.20	-24.75	Peak		
2	5625.600	8.94	32.73	-5.52	49.68	44.16	68.20	-24.04	Peak		
3	5798.400	9.03	33.49	-4.49	93.60	89.11	135.00	-45.89	Peak		
4	5946.400	9.11	33.54	-4.63	50.40	45.77	68.20	-22.43	Peak		
5	5959.200	9.12	33.52	-4.66	51.01	46.35	68.20	-21.85	Peak		



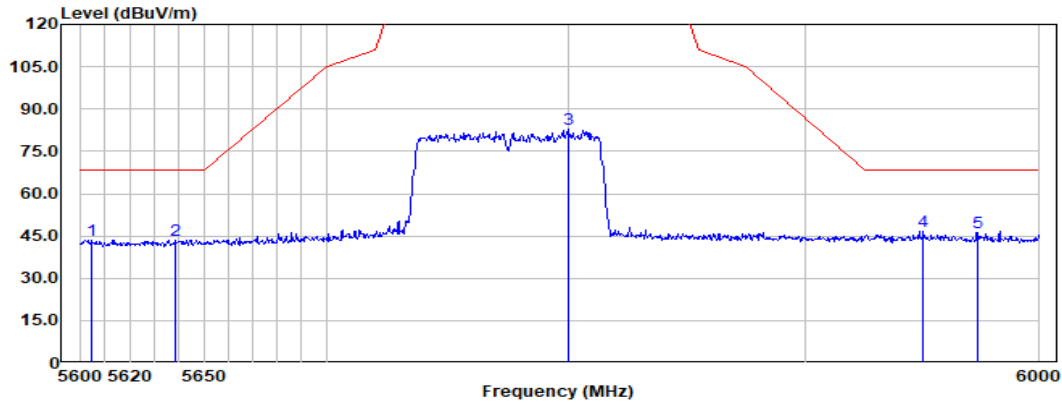
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dB/m	dBuV	dBuV/m				
1	5604.800	8.93	32.65	-5.63	49.00	43.37	68.20	-24.83		Peak
2	5638.800	8.95	32.79	-5.44	49.09	43.65	68.20	-24.55		Peak
3	5800.000	9.04	33.50	-4.47	87.29	82.82	135.00	-52.18		Peak
4	5950.400	9.11	33.53	-4.65	51.19	46.54	68.20	-21.66		Peak
5	5973.600	9.13	33.50	-4.70	50.79	46.09	68.20	-22.11		Peak



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7.8 Frequency Stability

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

7.8.1 E.U.T. Operation

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

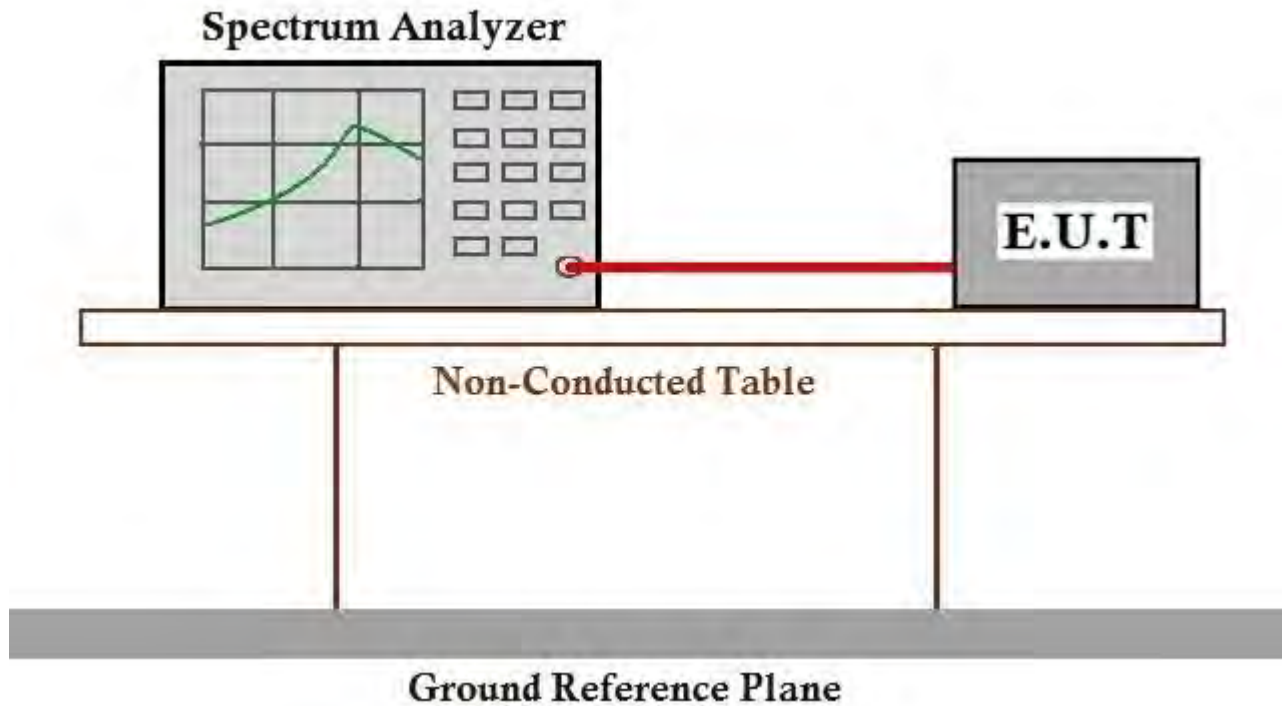
7.8.2 Test Mode Description

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



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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220600090704



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7.9 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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

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



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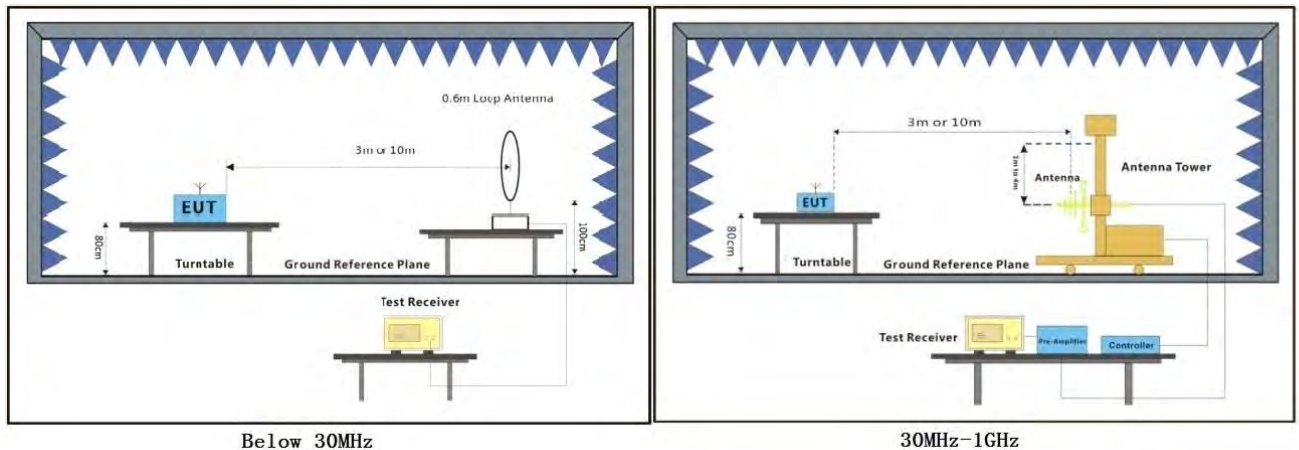
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		the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0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

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

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

Remark:

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



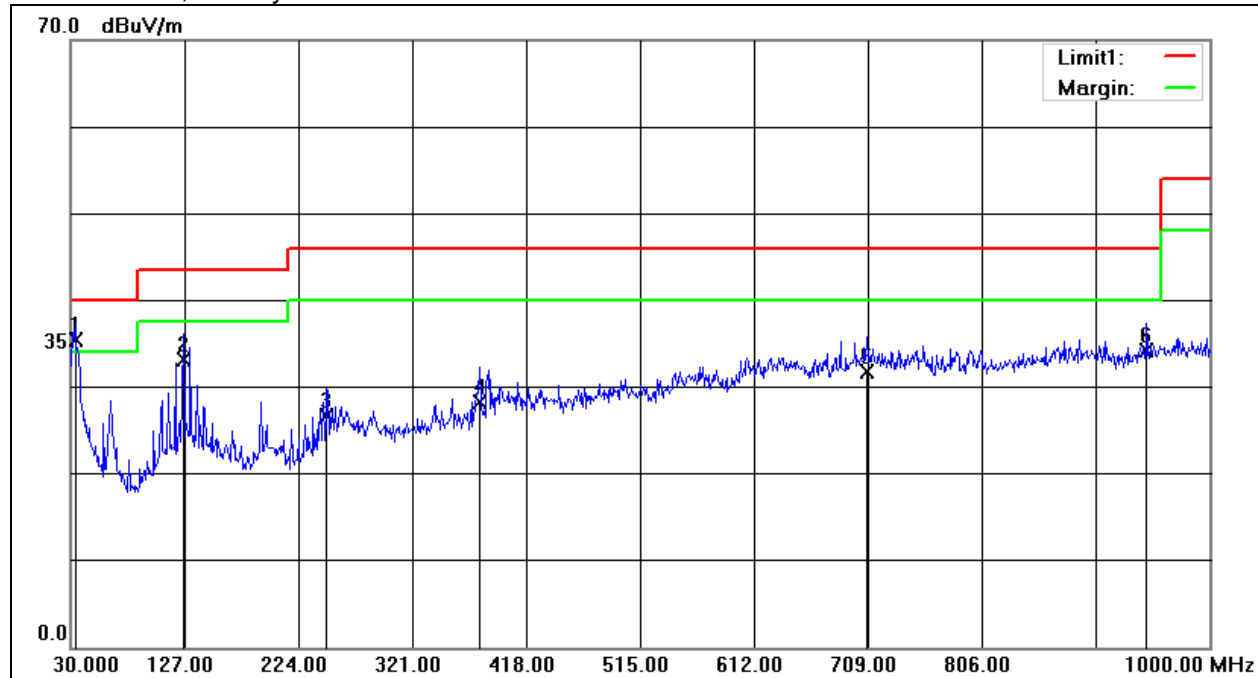
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Test Mode: 01; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	10.47	24.92	35.39	40.00	-4.61	QP
2	126.0300	13.71	19.45	33.16	43.50	-10.34	QP
3	248.2500	7.13	19.61	26.74	46.00	-19.26	QP
4	378.2300	5.95	22.35	28.30	46.00	-17.70	QP
5	708.0300	29.35	2.46	31.81	46.00	-14.19	QP
6	946.6500	31.66	2.62	34.28	46.00	-11.72	QP



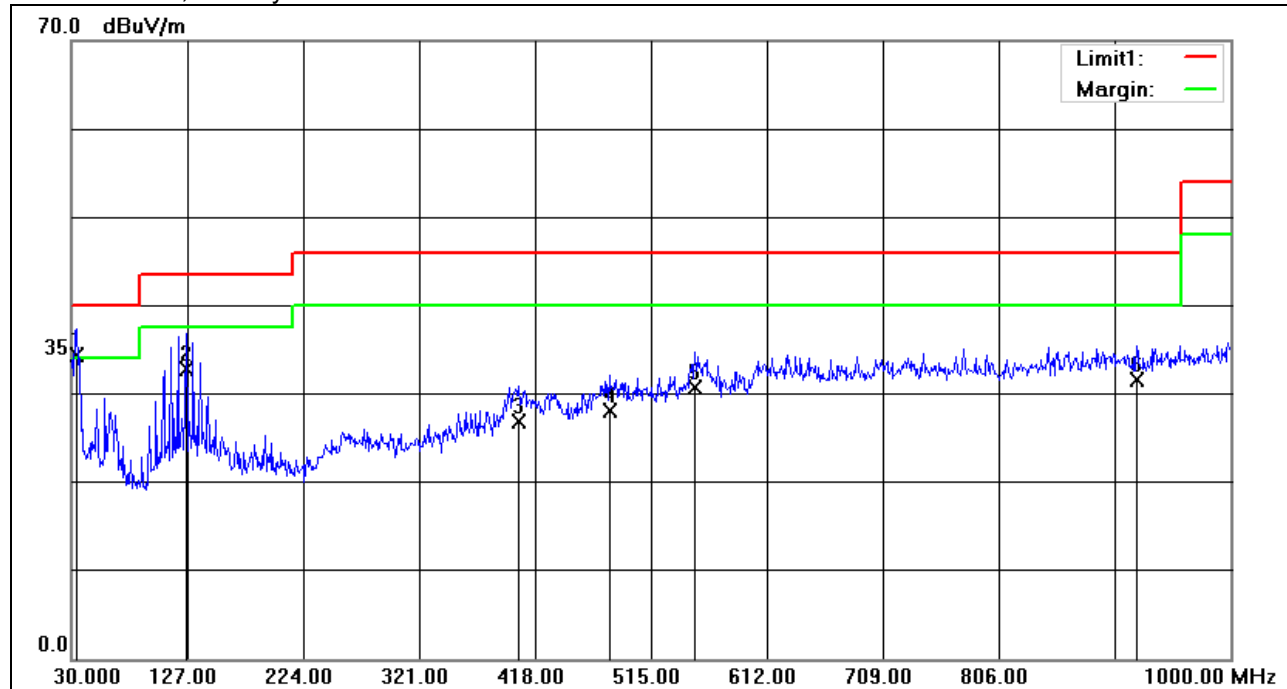
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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.8500	9.73	24.67	34.40	40.00	-5.60	QP
2	126.0300	13.36	19.45	32.81	43.50	-10.69	QP
3	404.4200	3.40	23.51	26.91	46.00	-19.09	QP
4	480.0800	2.95	25.18	28.13	46.00	-17.87	QP
5	551.8600	3.42	27.29	30.71	46.00	-15.29	QP
6	921.4300	29.02	2.53	31.55	46.00	-14.45	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2206000907AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2206000907AT



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Appendix D for KSCR220600090704

Power level setting using in test:

Channel	802.11a	802.11n(HT20)	802.11ac(VHT20)
	Ant 1	Ant 1	Ant 1
36	13	10	10
40	13	10	10
48	13	10	10
52	13	10	10
60	13	10	10
64	13	10	10
100	13	10	10
116	13	10	10
140	13	10	10
149	13	10	10
157	13	10	10
165	13	10	10
Channel	802.11n(HT40)	802.11ac(VHT40)	
	Ant 1	Ant 1	
38	10	9	
46	10	9	
54	10	9	
62	10	9	
102	10	9	
110	10	9	
118	10	9	
134	10	9	
151	10	9	
159	10	9	
Channel	802.11ac(VHT80)		
	Ant 1		
42	8		



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58	8
106	8
122	8
155	8

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	3.109	3.219	96.58	0.15	0.27
		5200	3.109	3.210	96.85	0.14	0.03
		5240	3.109	3.220	96.55	0.15	0.34
		5260	3.108	3.219	96.55	0.15	0.34
		5300	3.108	3.209	96.85	0.14	0.04
		5320	3.107	3.208	96.85	0.14	0.00
		5500	3.109	3.210	96.85	0.14	0.03
		5580	3.109	3.220	96.55	0.15	0.34
		5700	3.108	3.219	96.55	0.15	0.34
		5745	3.107	3.218	96.55	0.15	0.34
		5785	3.109	3.219	96.58	0.15	0.31
		5825	3.107	3.208	96.85	0.14	0.00
802.11n (HT20)	SISO	5180	4.768	4.880	97.70	0.10	0.22
		5200	4.768	4.880	97.70	0.10	0.23
		5240	4.768	4.878	97.74	0.10	0.18
		5260	4.768	4.880	97.70	0.10	0.22
		5300	4.768	4.880	97.70	0.10	0.23
		5320	4.768	4.869	97.93	0.09	0.00
		5500	4.769	4.878	97.77	0.10	0.22
		5580	4.769	4.879	97.75	0.10	0.20
		5700	4.769	4.880	97.73	0.10	0.23
		5745	4.768	4.878	97.74	0.10	0.20
		5785	4.768	4.880	97.70	0.10	0.25
		5825	4.768	4.870	97.91	0.09	0.03
802.11n (HT40)	SISO	5190	2.316	2.427	95.43	0.20	0.41
		5230	2.316	2.417	95.82	0.19	0.03



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		5270	2.316	2.417	95.82	0.19	0.04
		5310	2.317	2.428	95.43	0.20	0.41
		5510	2.316	2.427	95.43	0.20	0.41
		5550	2.316	2.418	95.78	0.19	0.03
		5670	2.317	2.428	95.43	0.20	0.41
		5755	2.316	2.417	95.82	0.19	0.04
		5795	2.315	2.427	95.39	0.21	0.41
802.11ac (VHT20)	SISO	5180	4.780	4.881	97.93	0.09	0.03
		5200	4.779	4.890	97.73	0.10	0.22
		5240	4.781	4.891	97.75	0.10	0.22
		5260	4.780	4.892	97.71	0.10	0.23
		5300	4.782	4.892	97.75	0.10	0.20
		5320	4.780	4.892	97.71	0.10	0.23
		5500	4.780	4.892	97.71	0.10	0.25
		5580	4.780	4.890	97.75	0.10	0.20
		5700	4.779	4.891	97.71	0.10	0.22
		5745	4.780	4.892	97.71	0.10	0.23
		5785	4.780	4.890	97.75	0.10	0.20
		5825	4.780	4.891	97.73	0.10	0.23
802.11ac (VHT40)	SISO	5190	2.324	2.435	95.44	0.20	0.41
		5230	2.325	2.426	95.84	0.18	0.03
		5270	2.324	2.435	95.44	0.20	0.41
		5310	2.324	2.426	95.80	0.19	0.03
		5510	2.324	2.425	95.84	0.18	0.04
		5550	2.324	2.426	95.80	0.19	0.03
		5670	2.324	2.435	95.44	0.20	0.41
		5755	2.324	2.435	95.44	0.20	0.41
		5795	2.324	2.426	95.80	0.19	0.03
802.11ac (VHT80)	SISO	5210	1.096	1.207	90.80	0.42	0.76
		5290	1.096	1.197	91.56	0.38	0.03
		5530	1.096	1.197	91.56	0.38	0.00
		5610	1.097	1.198	91.57	0.38	0.00
		5775	1.096	1.197	91.56	0.38	0.03



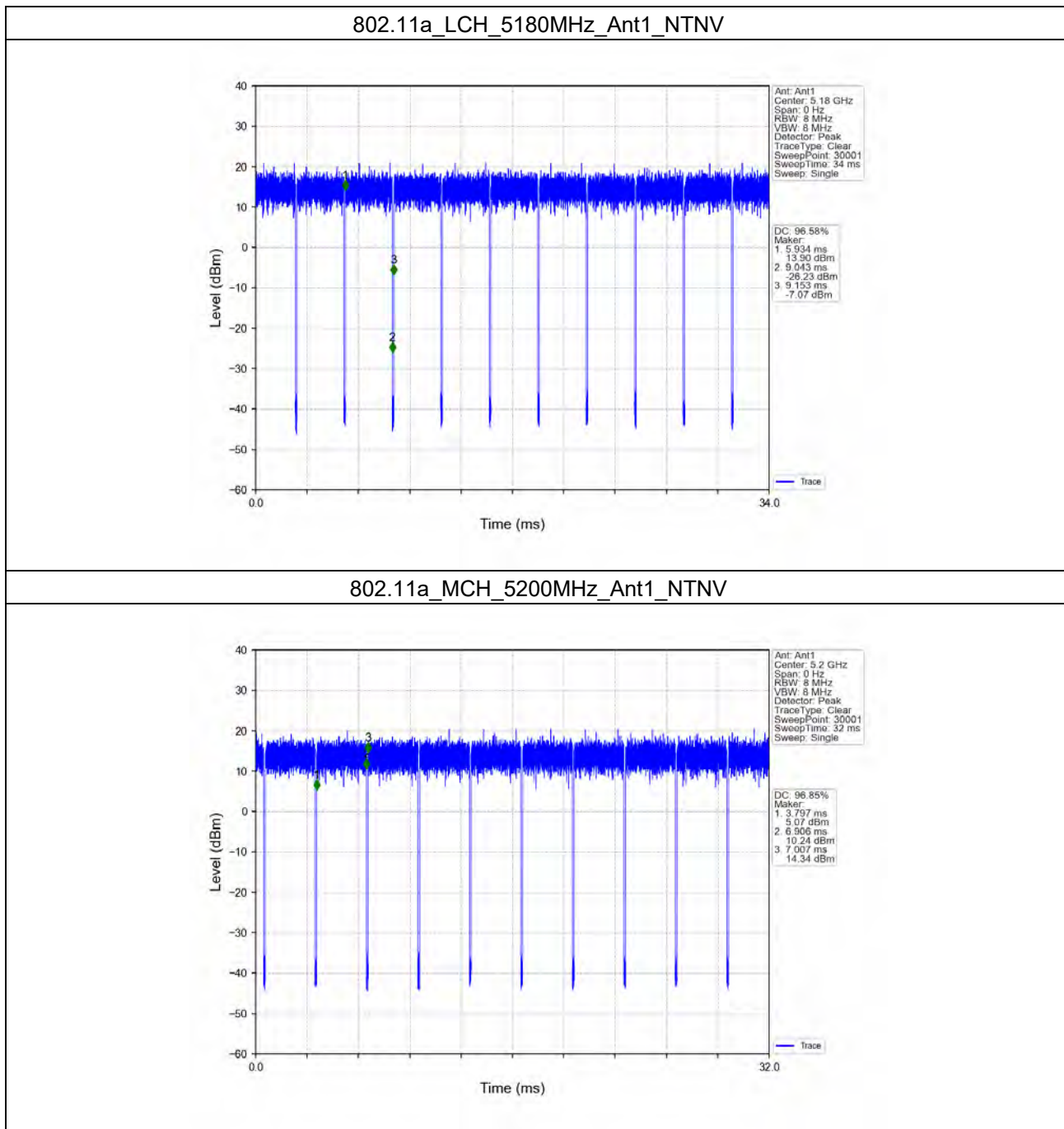
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1.1.2 Test Graph



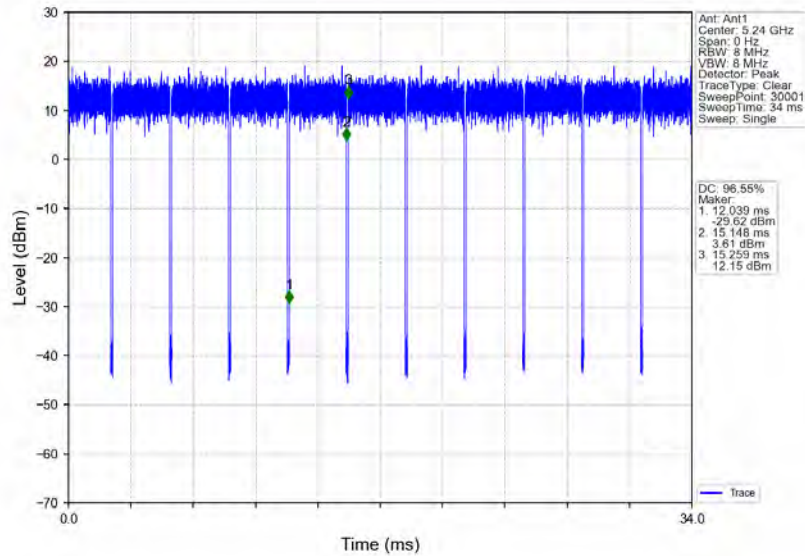
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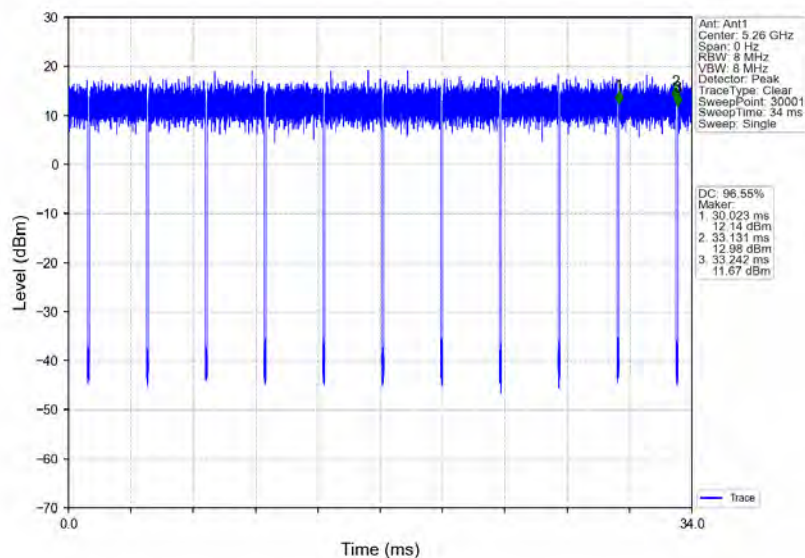
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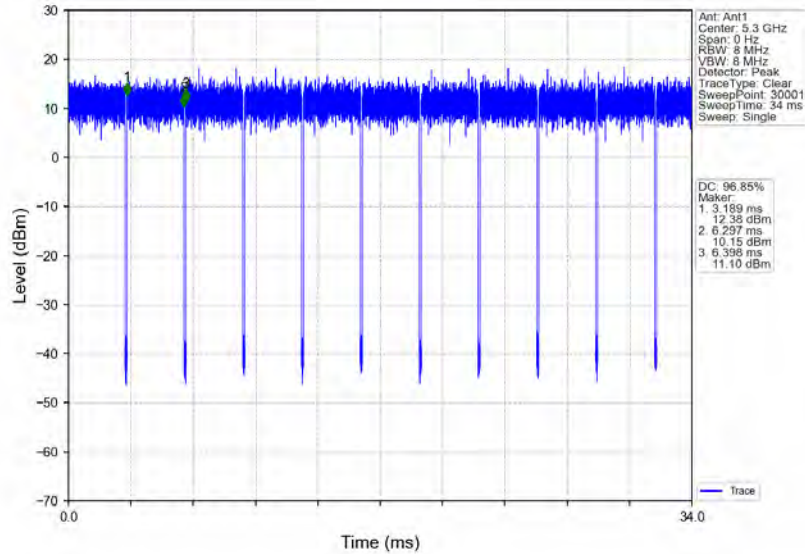
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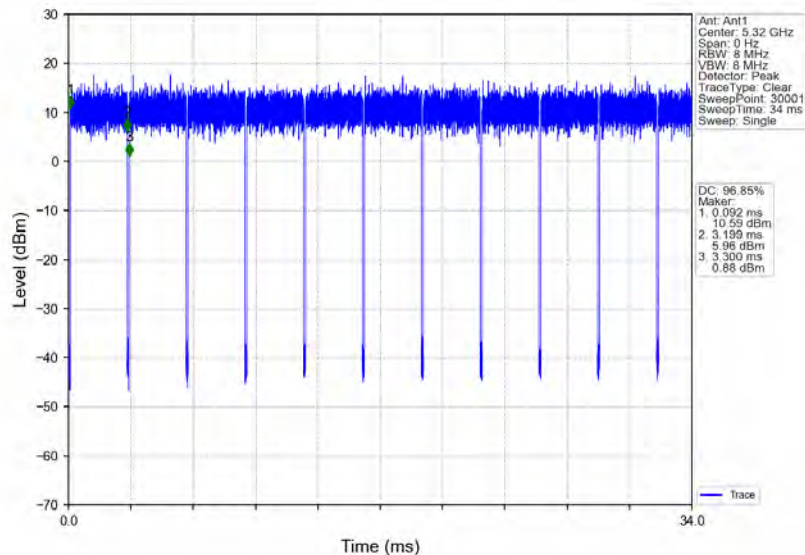
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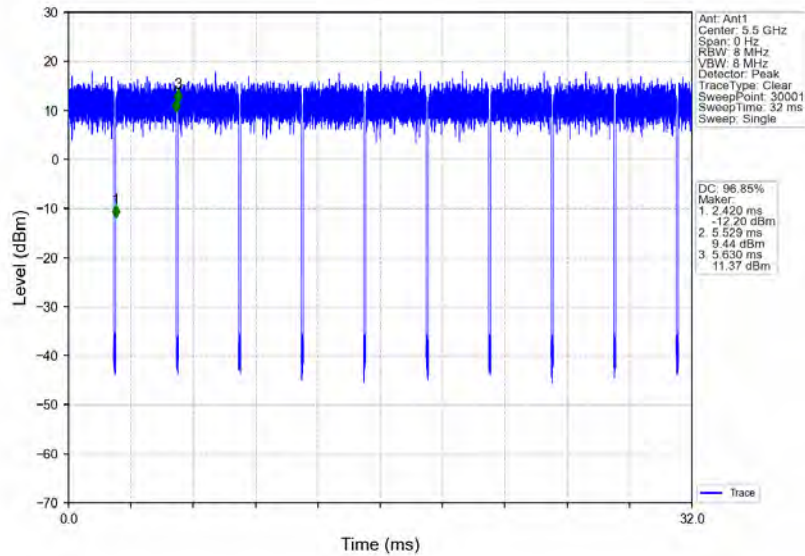
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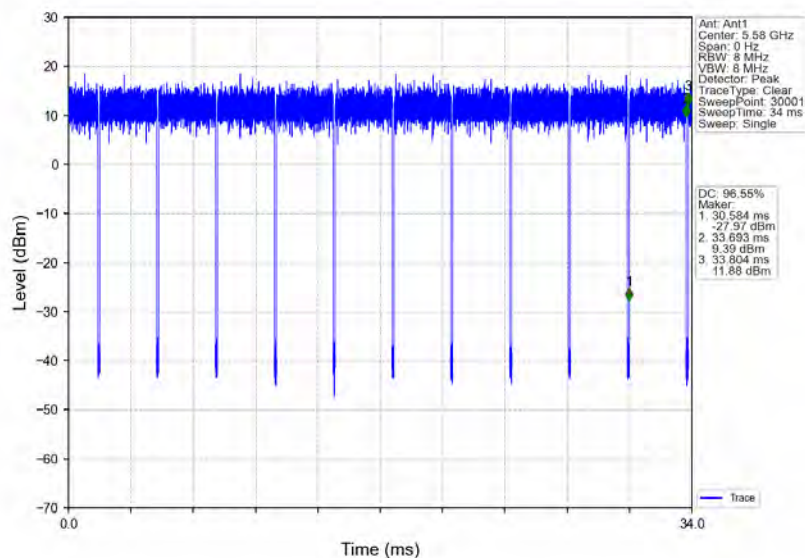
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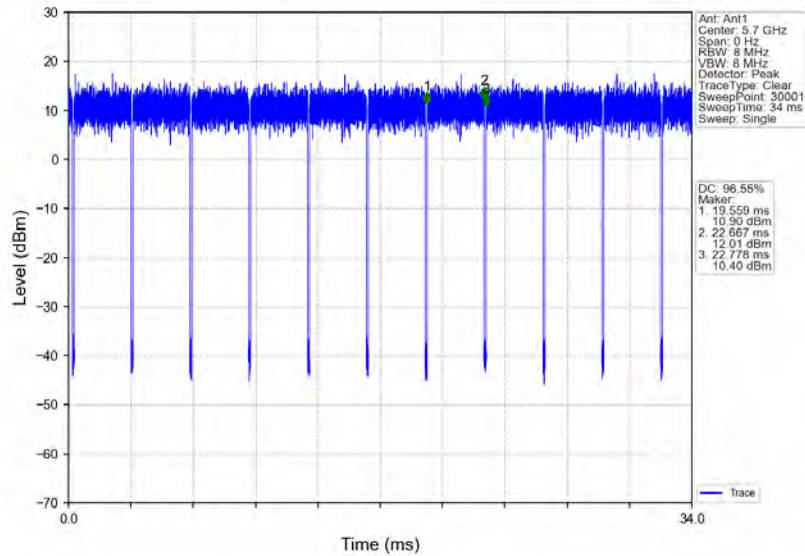
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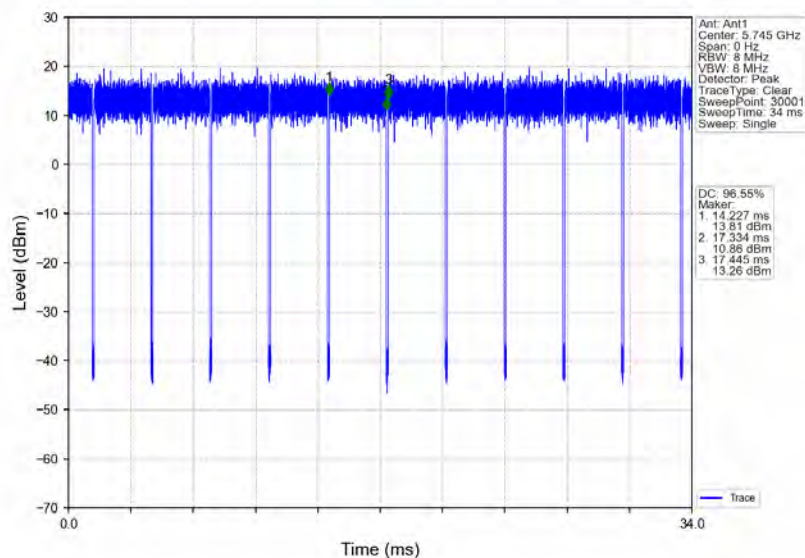
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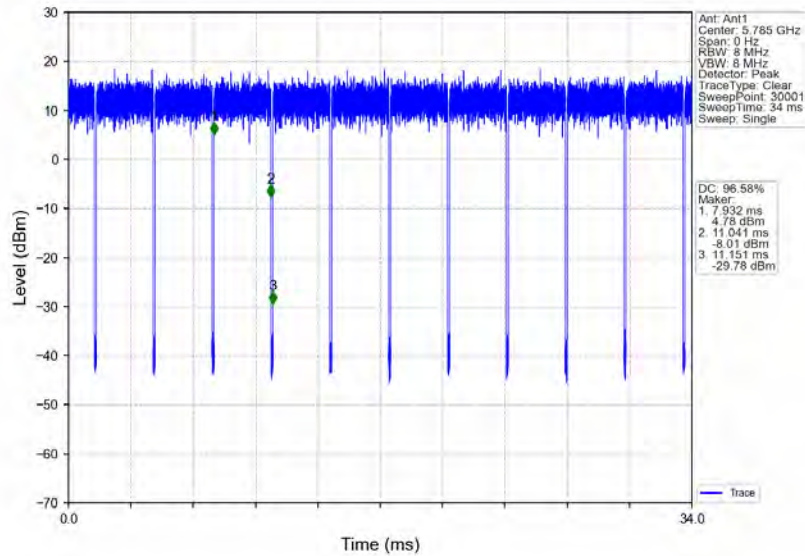
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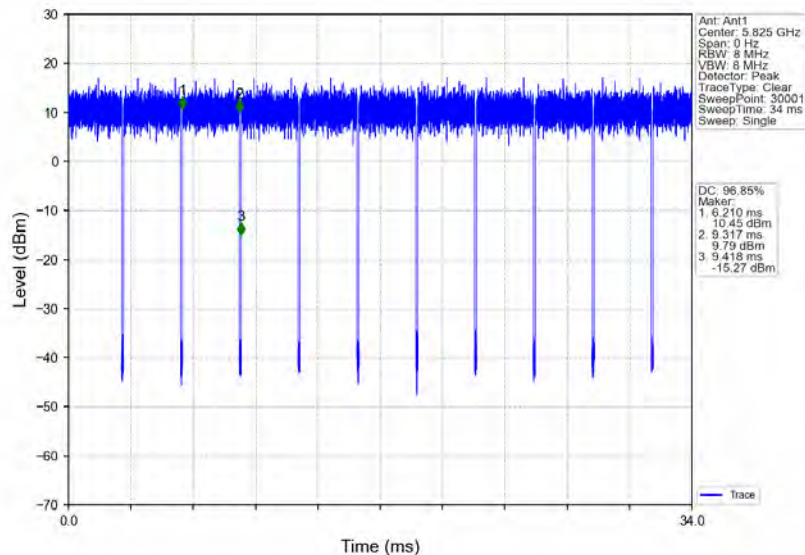
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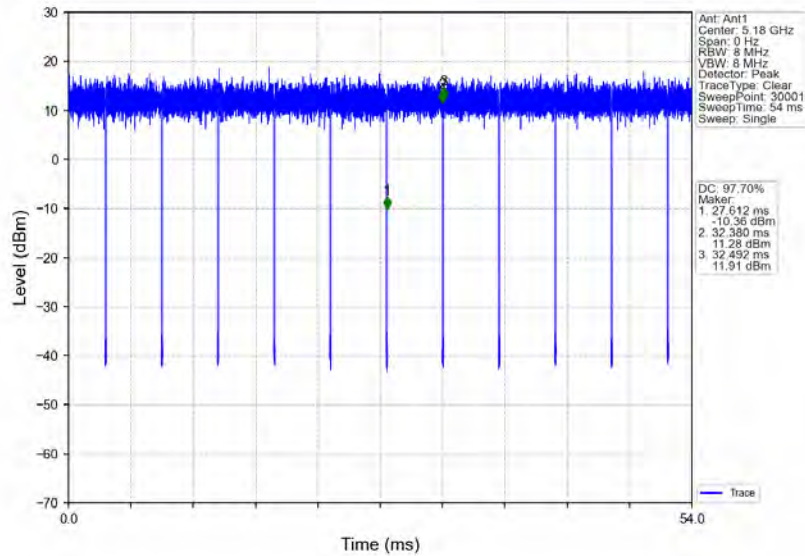
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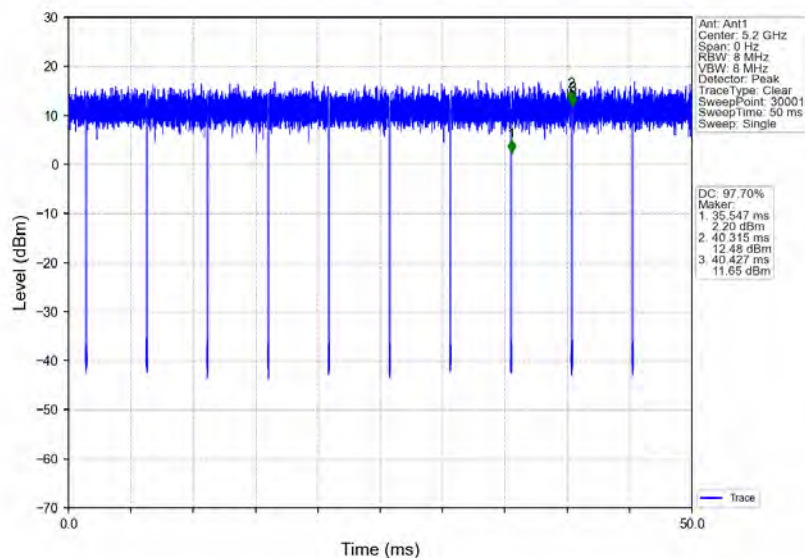
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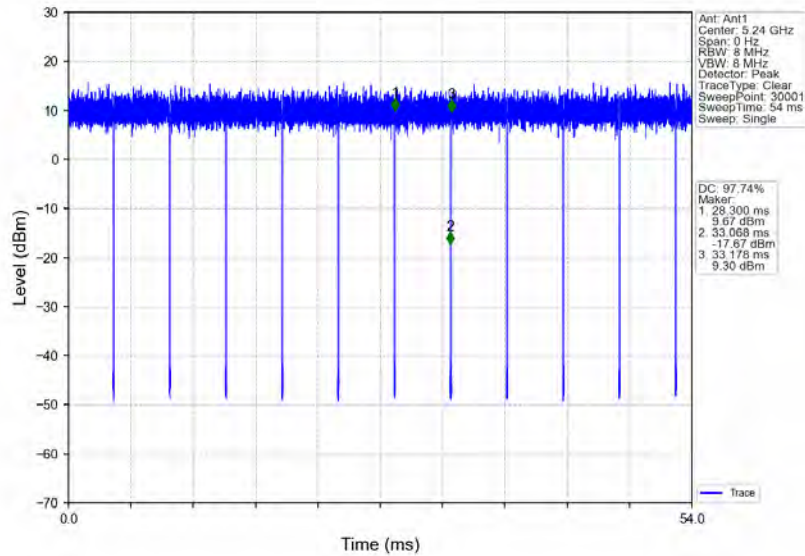
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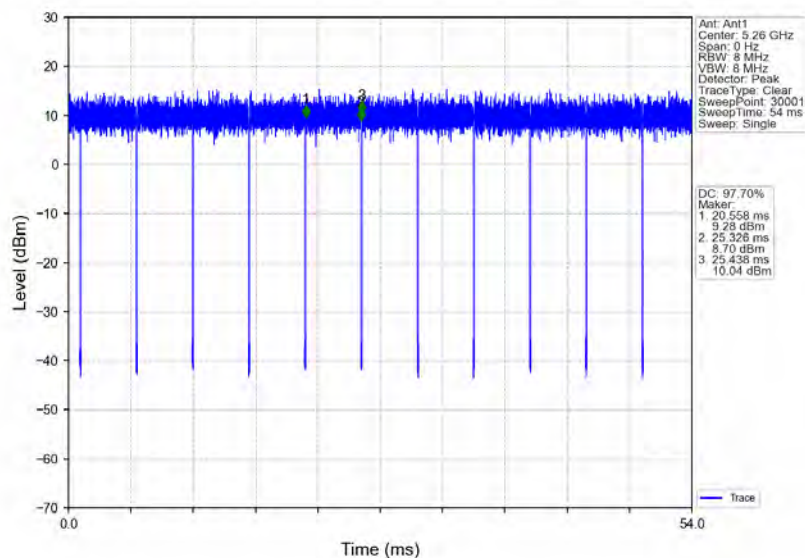
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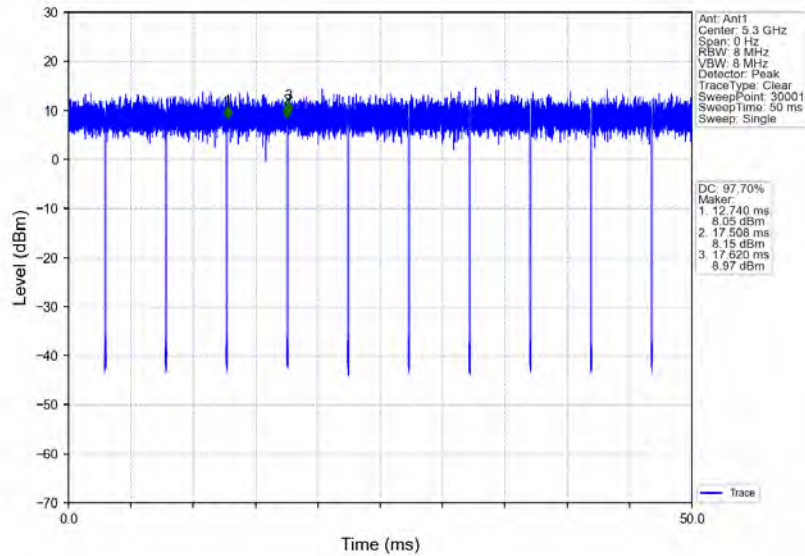
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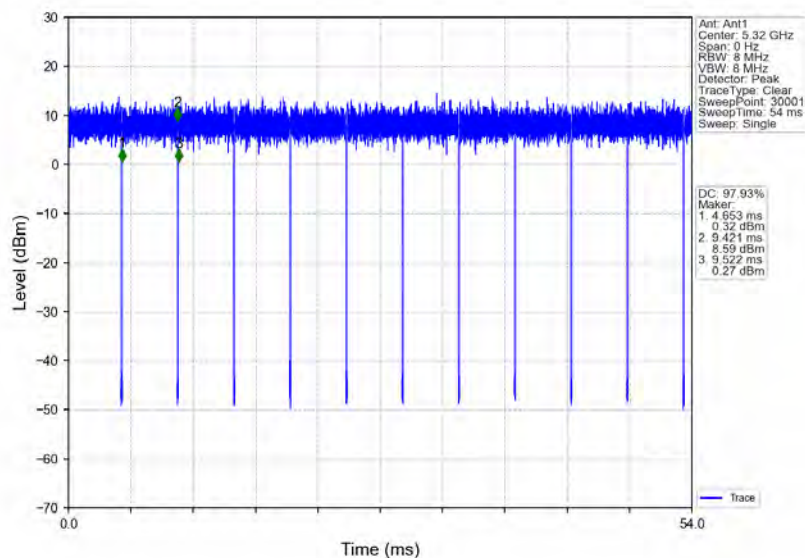
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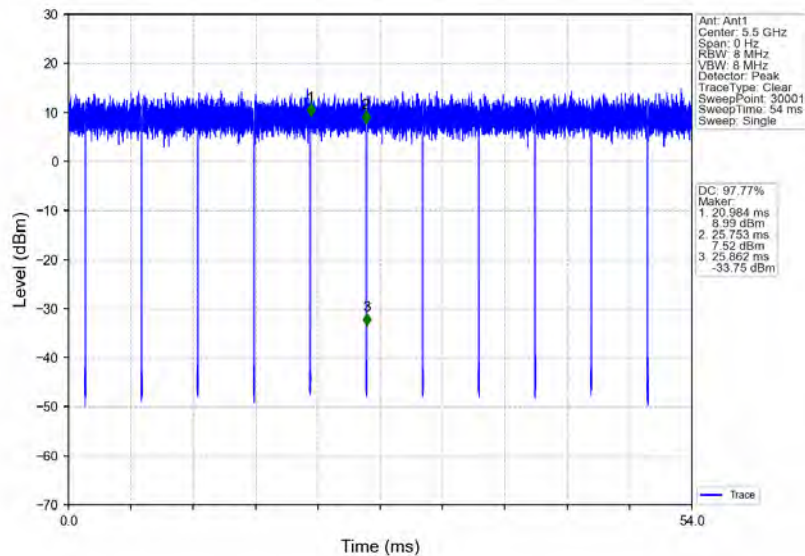
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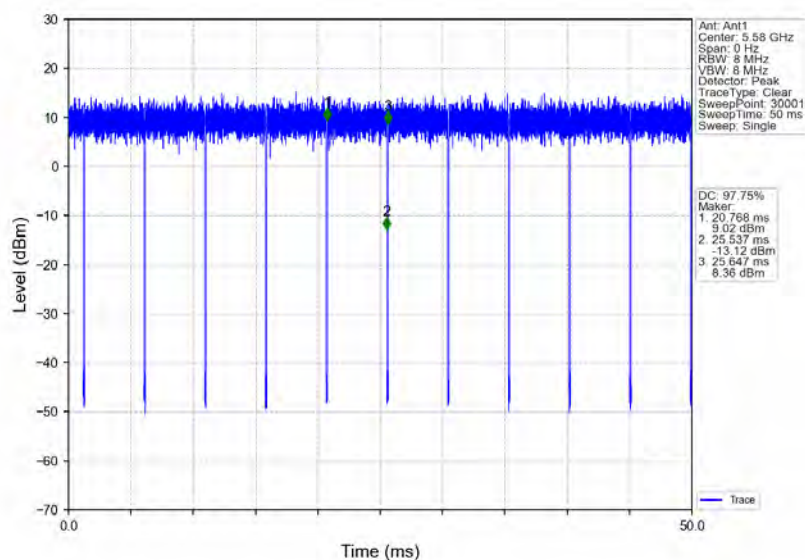
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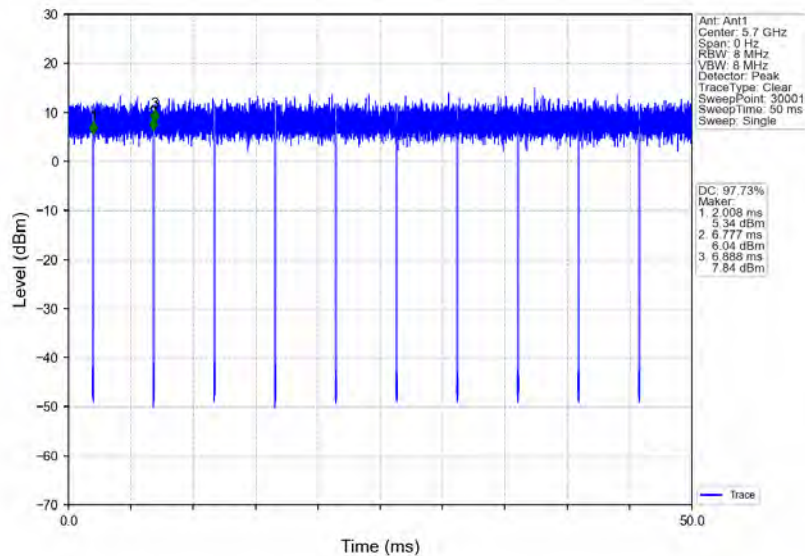
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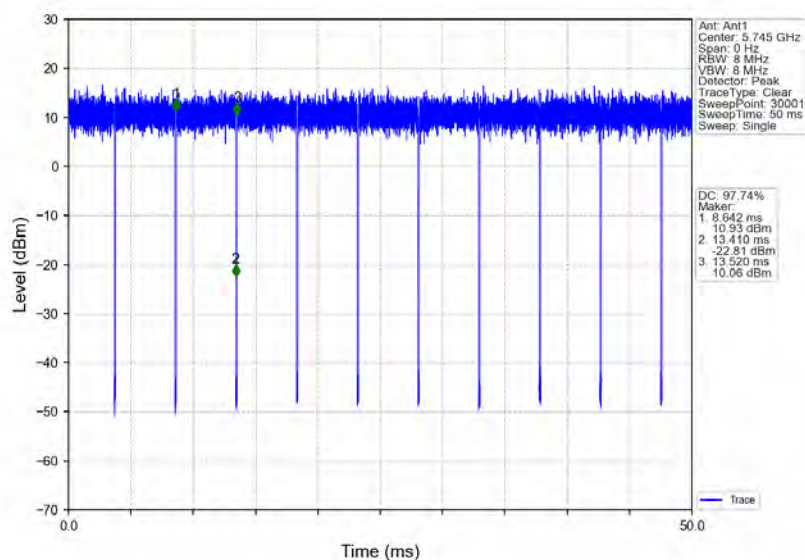
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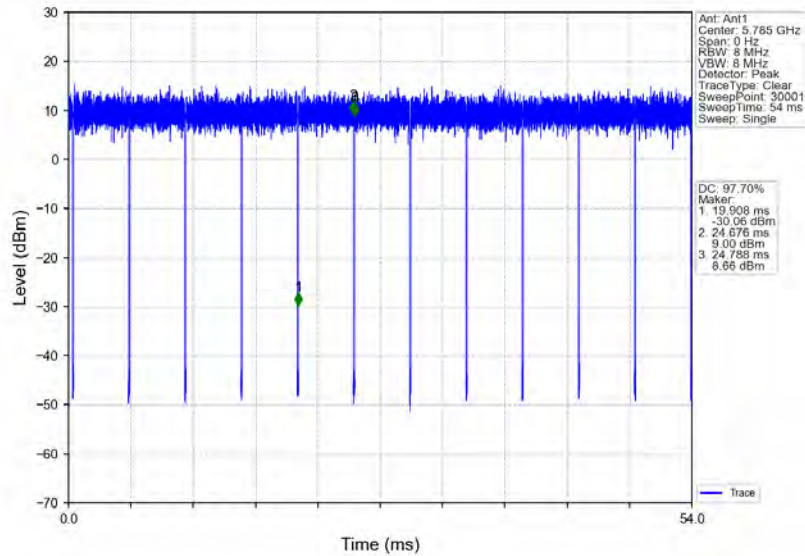
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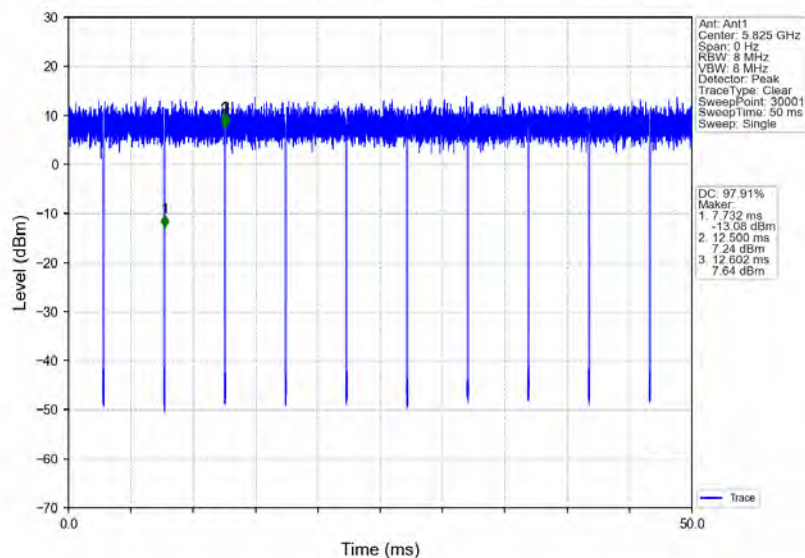
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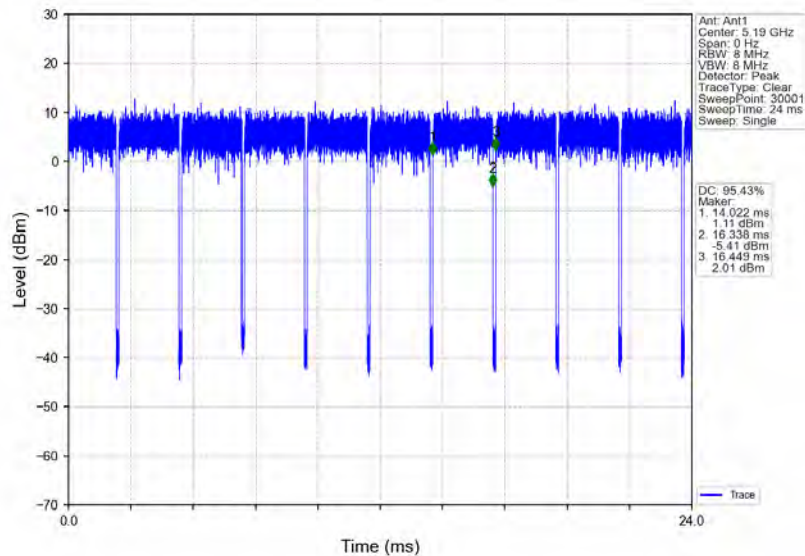
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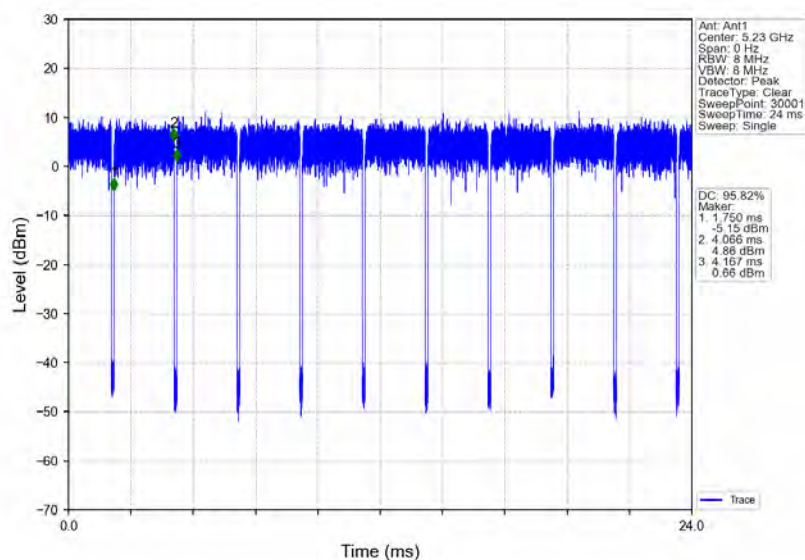
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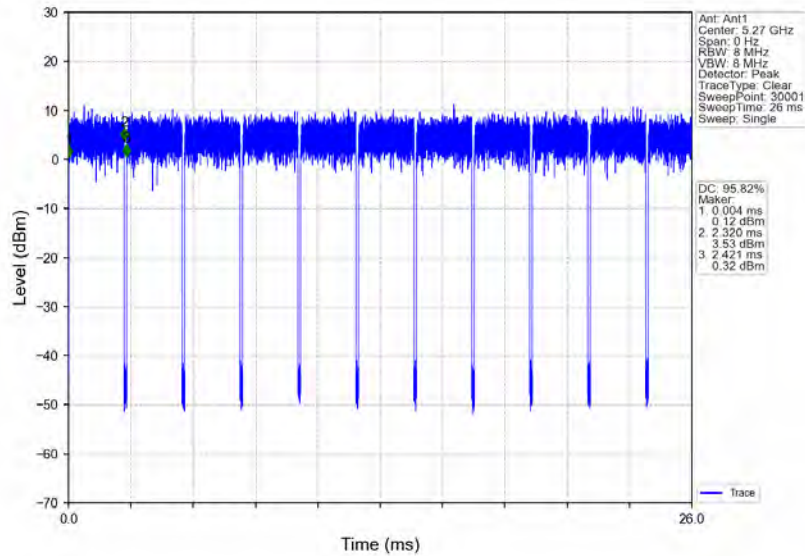
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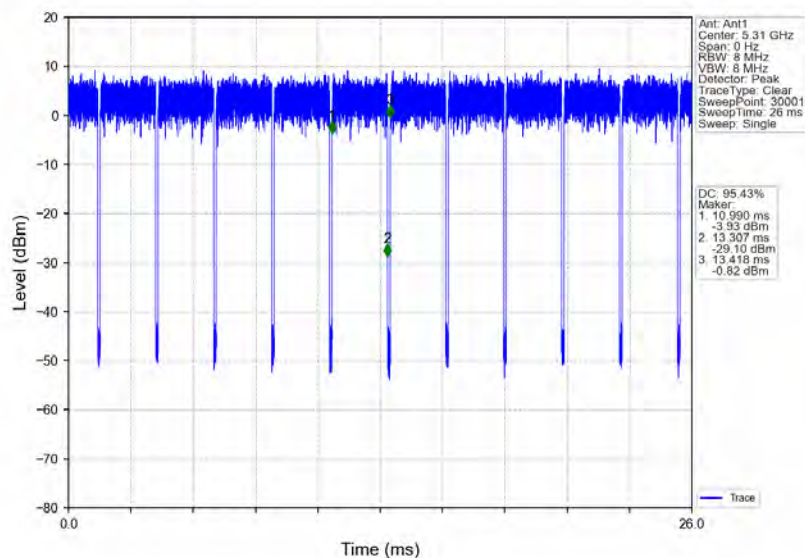
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



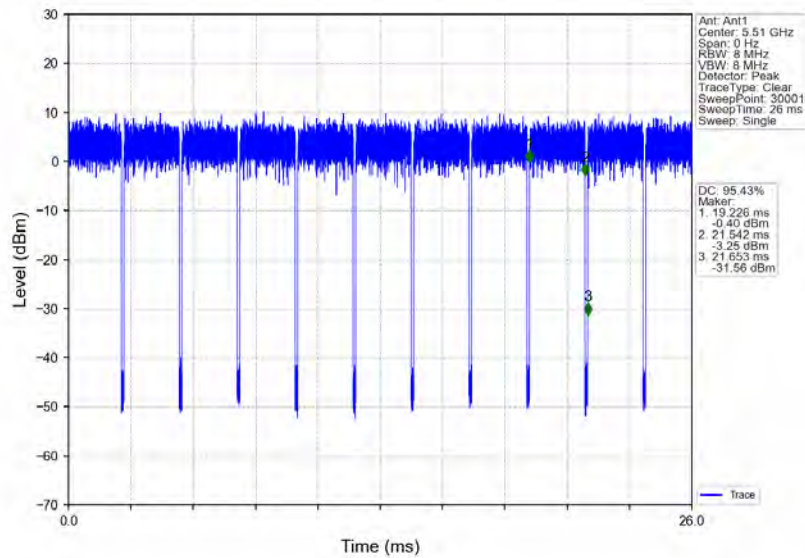
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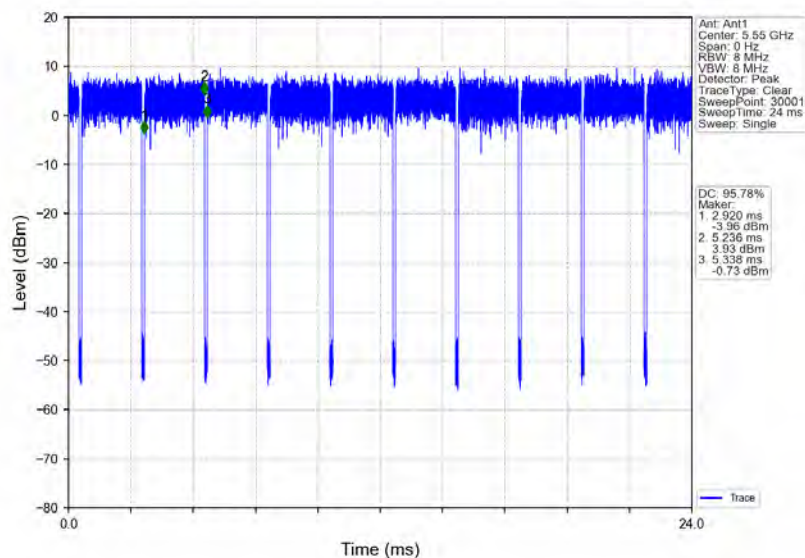
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



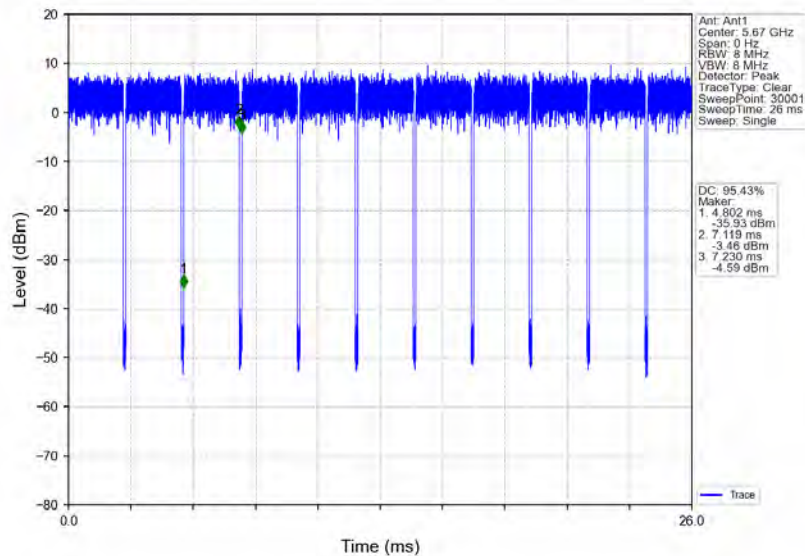
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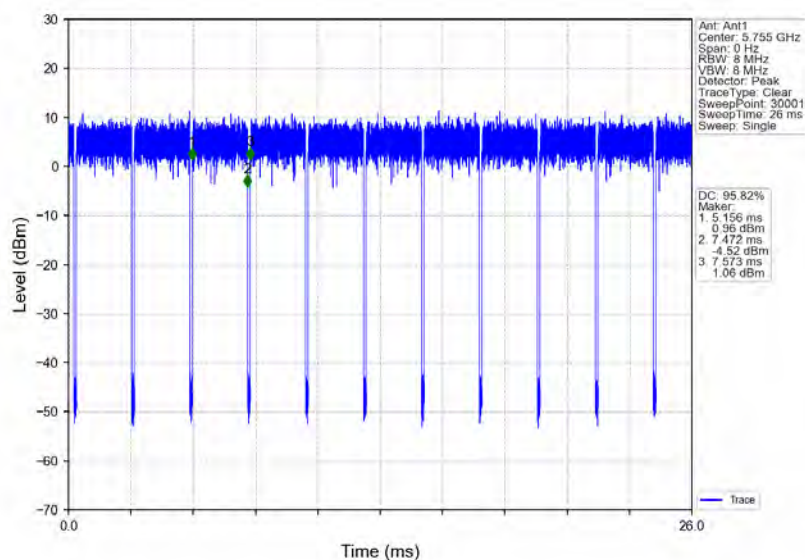
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



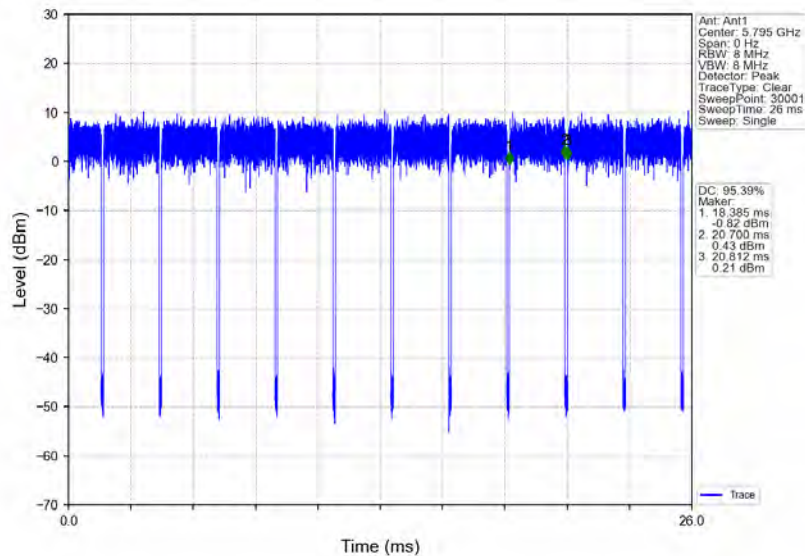
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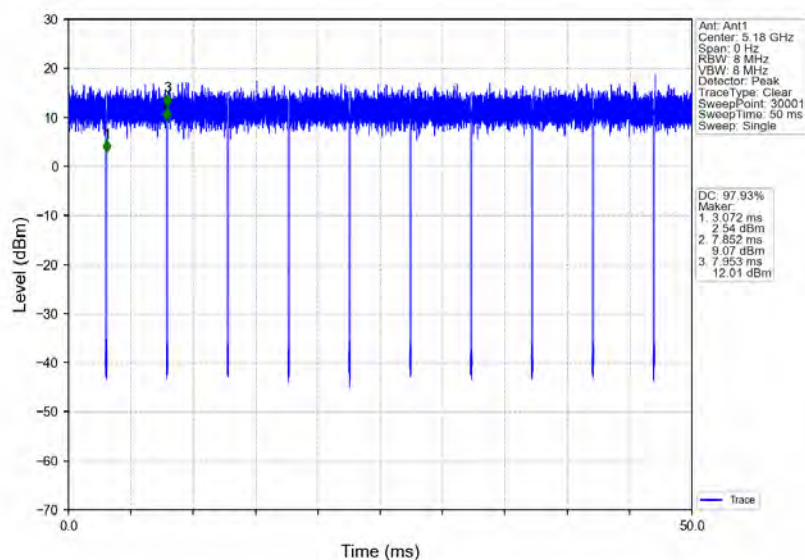
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



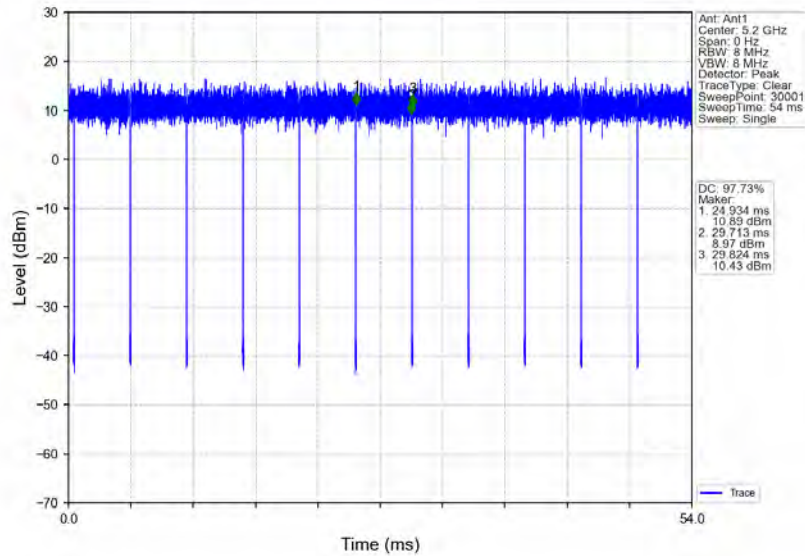
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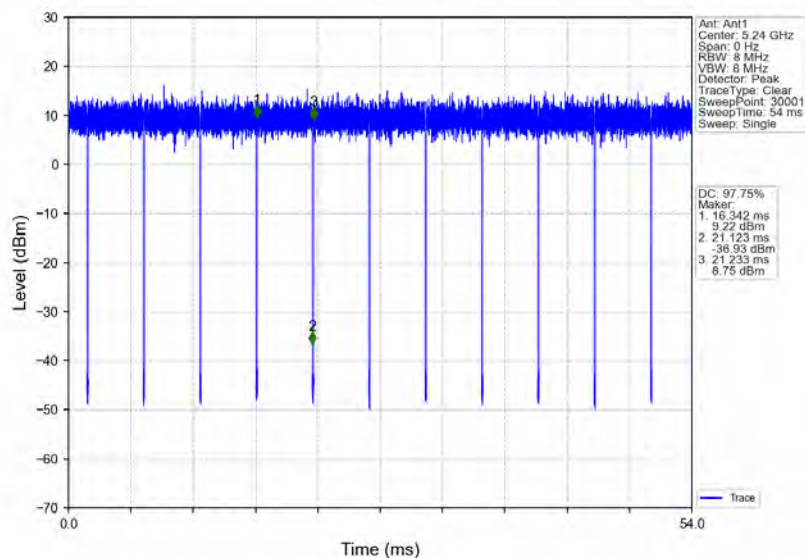
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



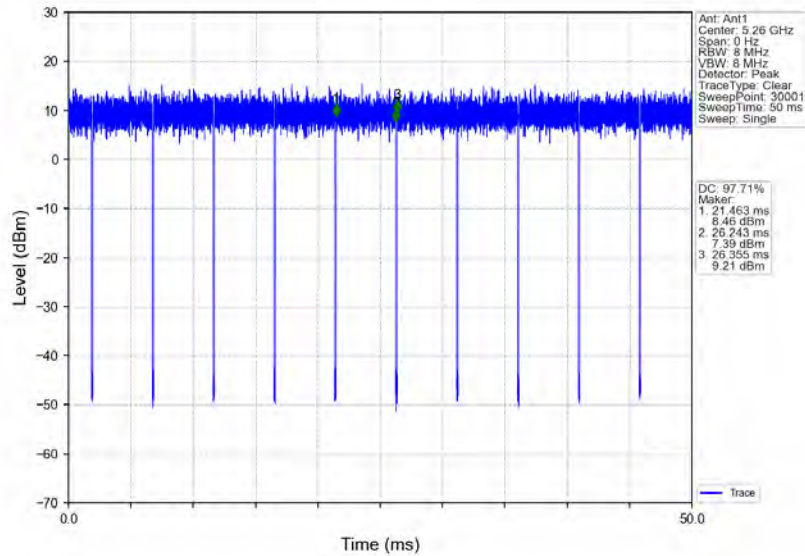
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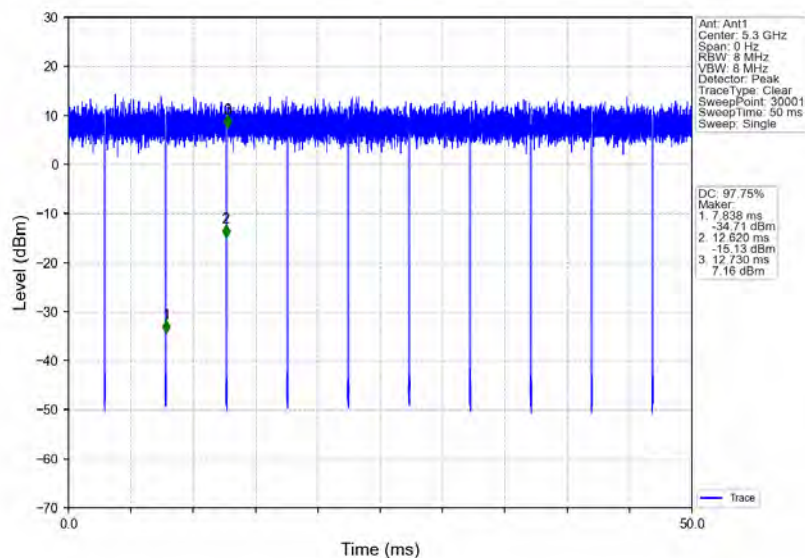
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



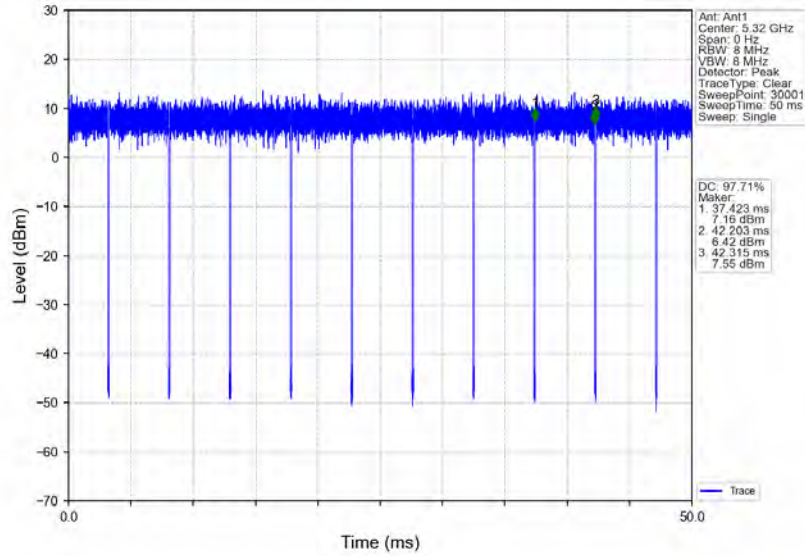
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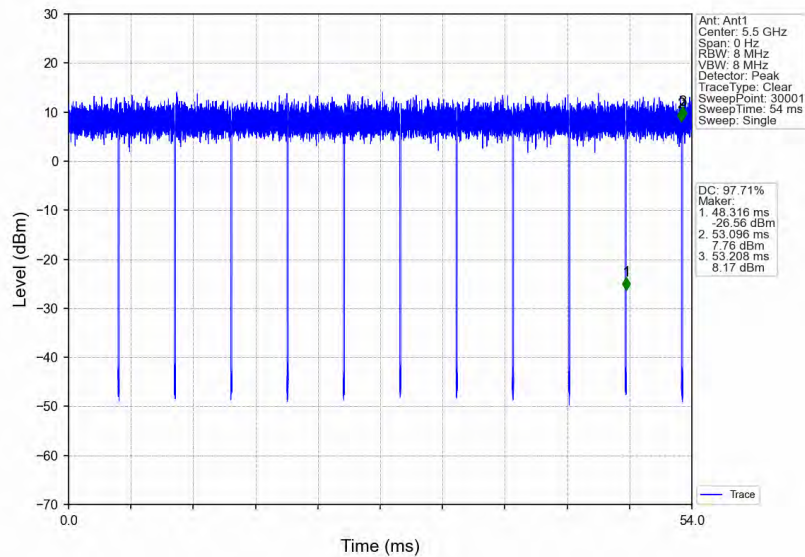
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



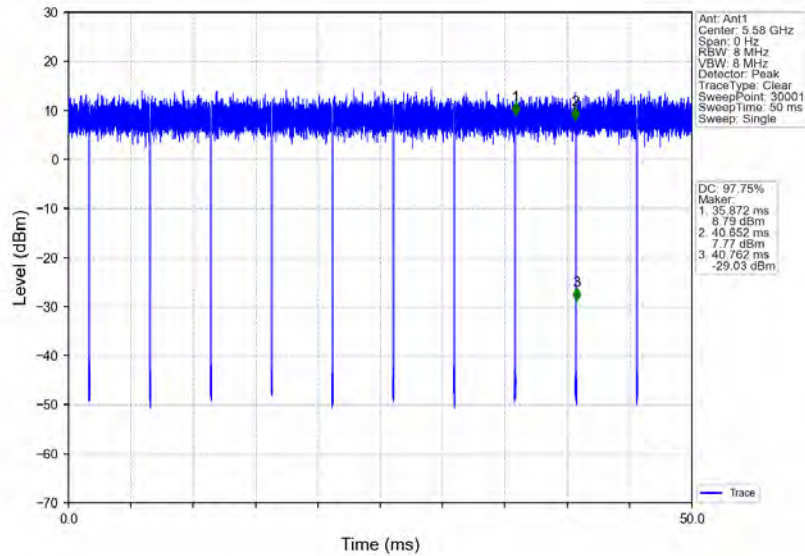
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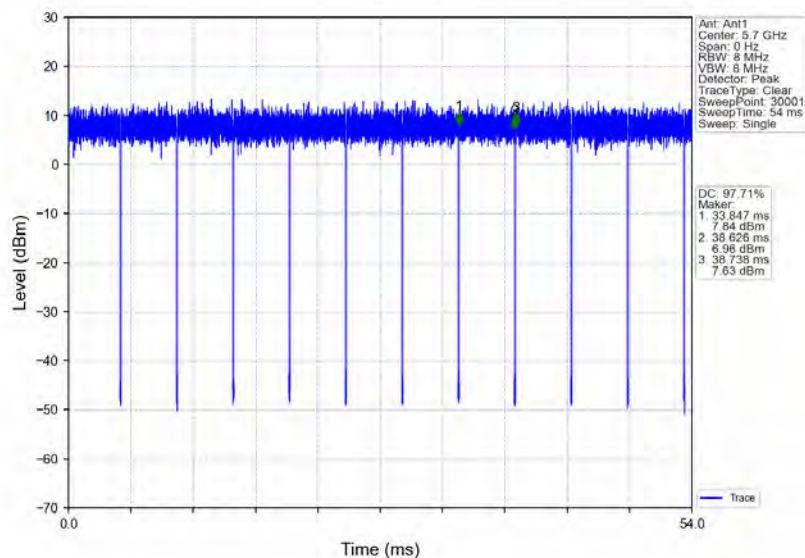
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



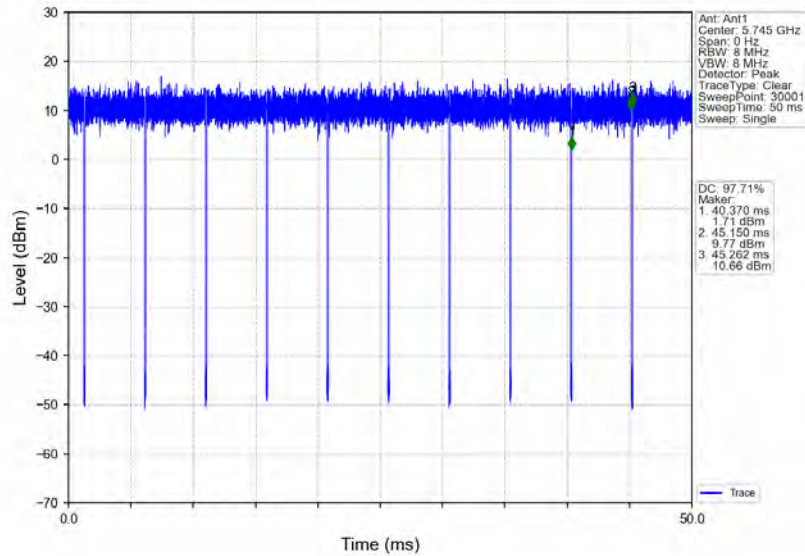
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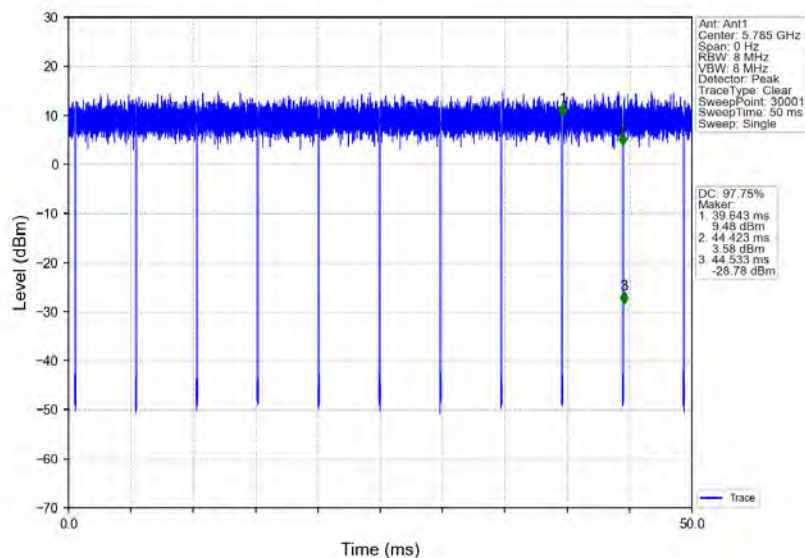
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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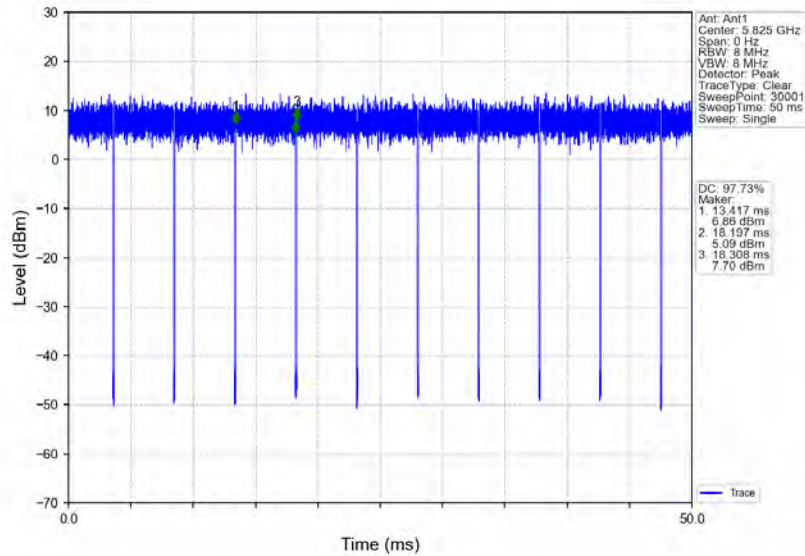
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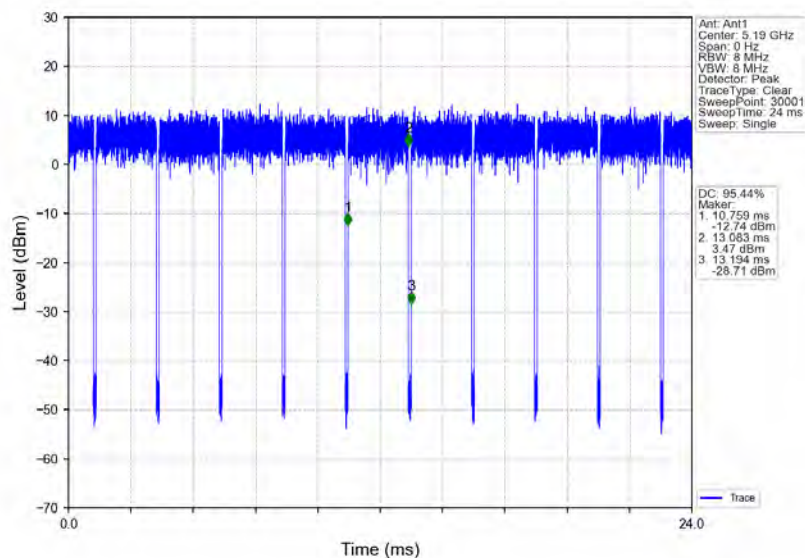
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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