



TEST REPORT

Application No.: KSCR2206000924AT
FCC ID: 2AL8S-0302C3XN-1
Applicant: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD
Address of Applicant: 88 JIANGLING ROAD, XIXING TOWN, BINJIANG DISTRICT, HANGZHOU CITY
Manufacturer: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD
Address of Manufacturer: 88 JIANGLING ROAD, XIXING TOWN, BINJIANG DISTRICT, HANGZHOU CITY
Factory: Zhejiang Uniview System Technology Co., Ltd.
Address of Factory: No.1277 Qingfeng South Road (South), Tongxiang Economic Development Zone, 314500 TongxiangCity, Jiaxing City, PEOPLE'S REPUBLIC OF CHINA

Equipment Under Test (EUT):

EUT Name: WiFi + BT Module
Model No.: WF-M63B-US1
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-06-06
Date of Test: 2022-07-08 to 2022-07-11
Date of Issue: 2022-07-12

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

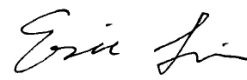
Eric Lin
Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-12		Original

Authorized for issue by:				
				
		<u>Eric_Liu/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	Customer Declaration
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Customer Declaration

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	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 (20MHz):	U-NII-1: 5180-5240MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-3: 5775MHz
Moudulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz; 802.11n(HT40)/ac(VHT40): 40MHz; 802.11ac(VHT80): 80MHz
Antenna Type:	Ant 1: PCB Antenna Ant 2: PCB Antenna
Antenna Gain:	Ant 1: U-NII-1: 0.29dBi(Provided by manufacturer) U-NII-3: -1.16dBi(Provided by manufacturer) Ant 2: U-NII-1: 0.12dBi(Provided by manufacturer) U-NII-3: 0.99dBi(Provided by manufacturer)
Remark:	Two antennas can simultaneous transmission

4.2 Power level setting using in test:

Channel	802.11a		802.11n(HT20)		802.11ac(VHT20)	
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	9	11	7	7	7	7
40	9	11	7	7	7	7
48	9	11	7	7	7	7
149	10	10	7	7	7	7
157	10	10	7	7	7	7
165	10	10	7	7	7	7
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	7	7	7	7		
46	7	7	7	7		
151	7	7	7	7		



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159	7	7	7	7
Channel	802.11ac(VHT80)			
	Ant 1	Ant 2		
42	6	6		
155	7	7		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	--	--

4.4 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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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

4.6 Test Facility

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

• **CNAS (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.

4.7 Deviation from Standards

None



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4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
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



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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 1 is PCB antenna and antenna 2 is PCB antenna, and all no consideration of replacement. The best case gain of the antenna 1 is 0.29dBi for Band1, -1.16dBi for Band3. and antenna 2 is 0.12dBi for Band1, 0.99dBi for Band3.

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 Duty Cycle

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

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.6 °C Humidity: 47.4 % 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-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.

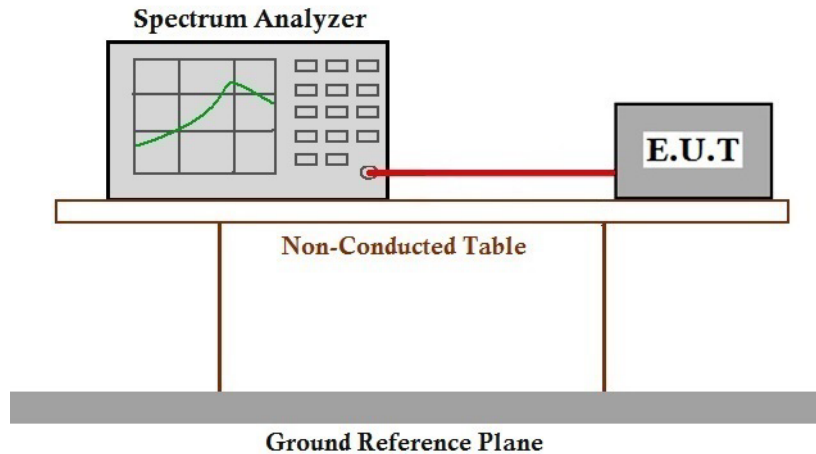


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220600092404



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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: 23.6 °C

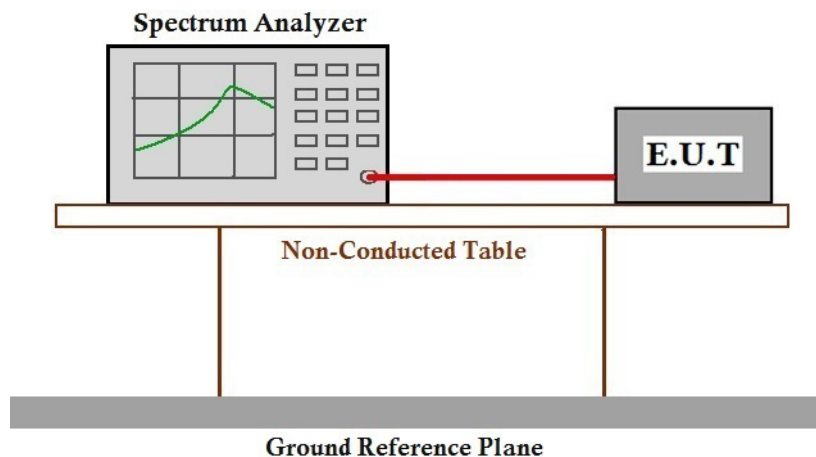
Humidity: 47.4 % RH

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.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220600092404



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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

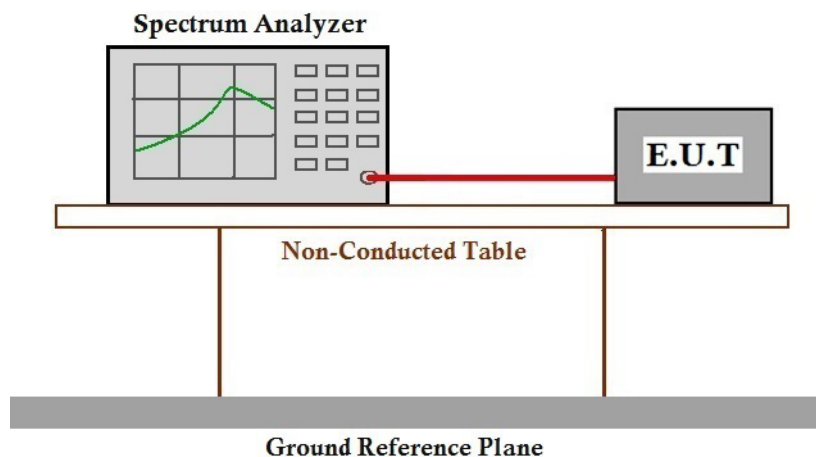
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 47.4 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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: 23.6 °C Humidity: 47.4 % 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-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



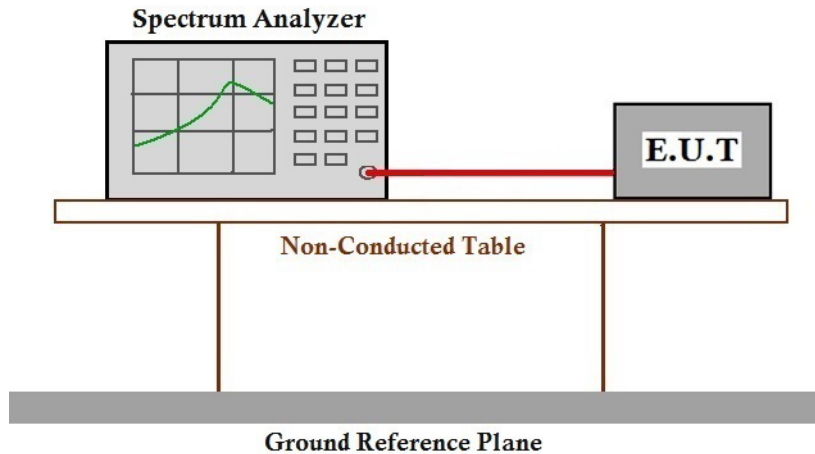
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		report.
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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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: 23.6 °C

Humidity: 47.4 % 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-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.



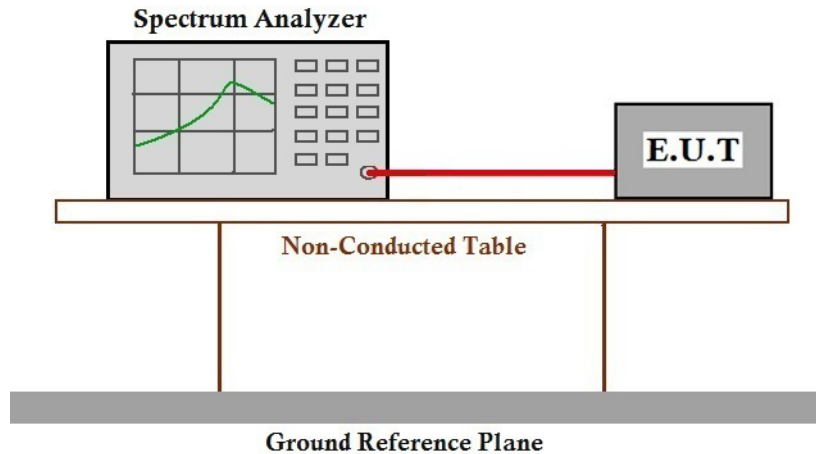
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220600092404



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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

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: 24.1 °C

Humidity: 46.5 % 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



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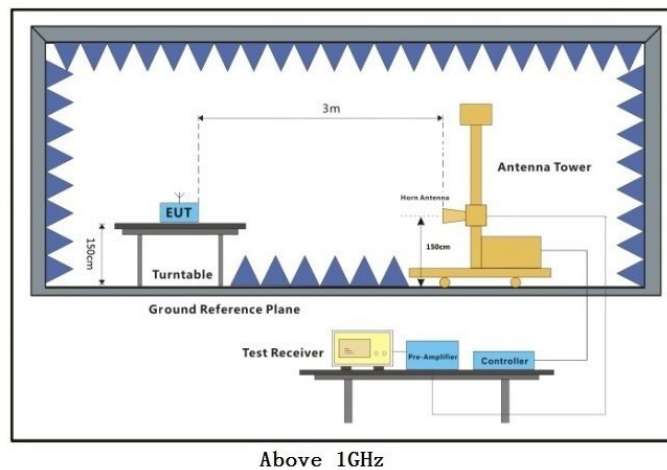
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		considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type 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.
5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for 11a modulation and MIMO antenna operation for 11n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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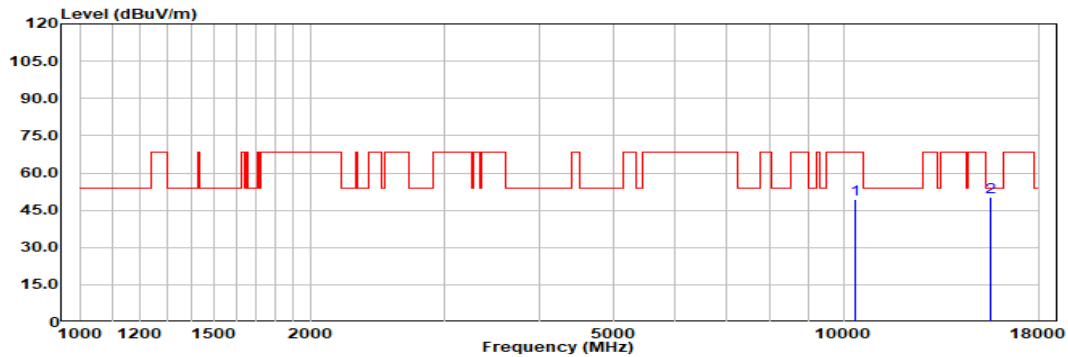
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Report No.: KSCR220600092404

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Test Mode: 01; 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	10360.000	12.58	-500.00	582.09	49.31	68.30	-18.99		Peak
2	15540.000	14.80	-500.00	580.20	50.23	54.00	-3.77		Peak

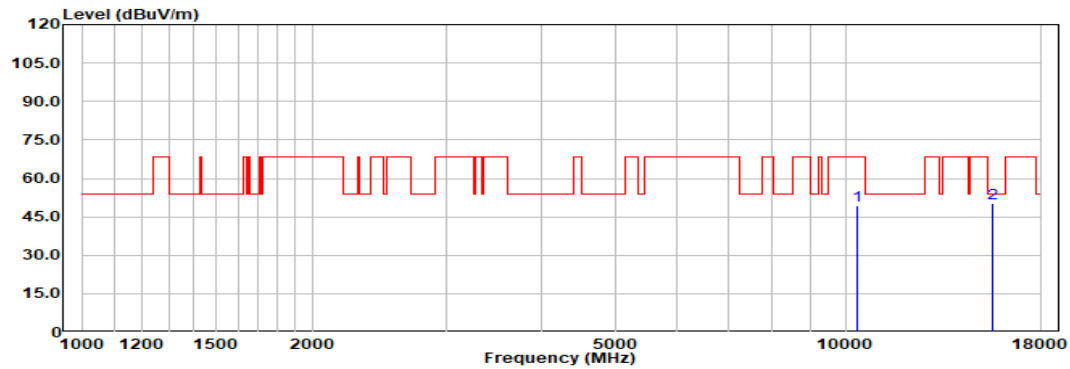


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10360.000	12.58	-500.00	581.93	49.15	68.30	-19.15	Peak	
2	15540.000	14.80	-500.00	580.36	50.39	54.00	-3.61	Peak	

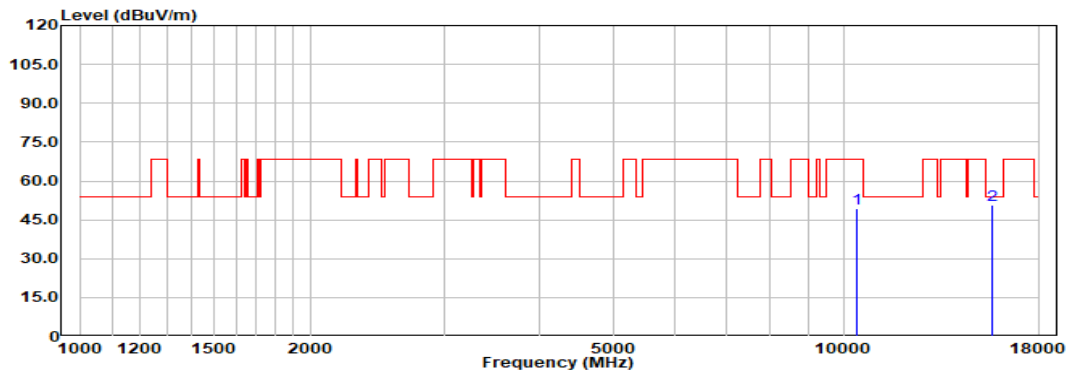


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10400.000	12.58	-500.00	582.26	49.48	68.30	-18.82		Peak	
2	15600.000	14.80	-500.00	580.44	50.59	54.00	-3.41		Peak	

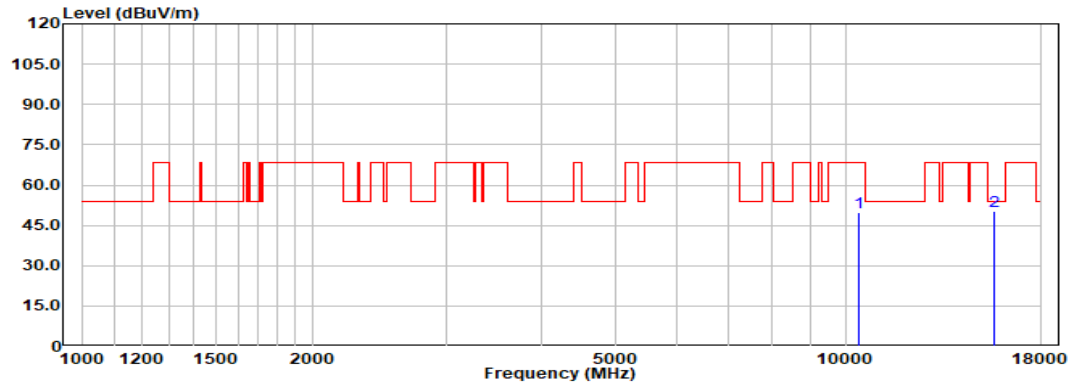


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10400.000	12.58	-500.00	582.65	49.87	68.30	-18.43		Peak
2	15600.000	14.80	-500.00	580.31	50.46	54.00	-3.54		Peak

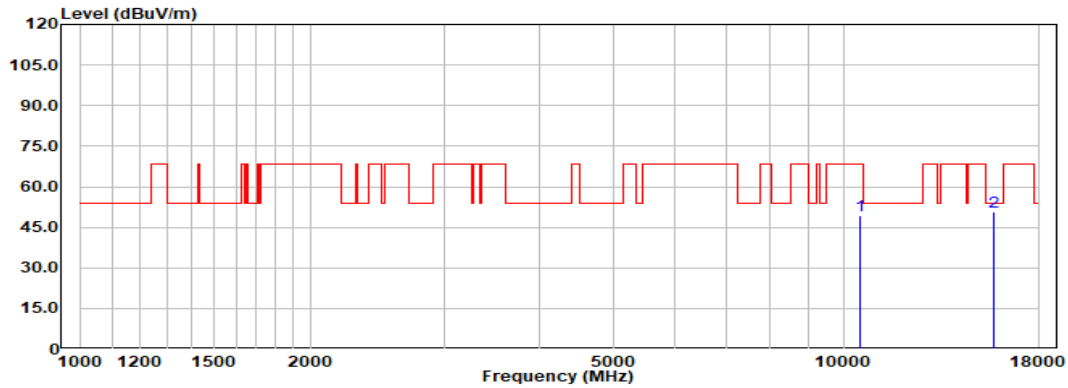


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10480.000	12.60	-500.00	582.33	49.55	68.30	-18.75		Peak
2	15720.000	14.81	-500.00	580.51	50.91	54.00	-3.09		Peak



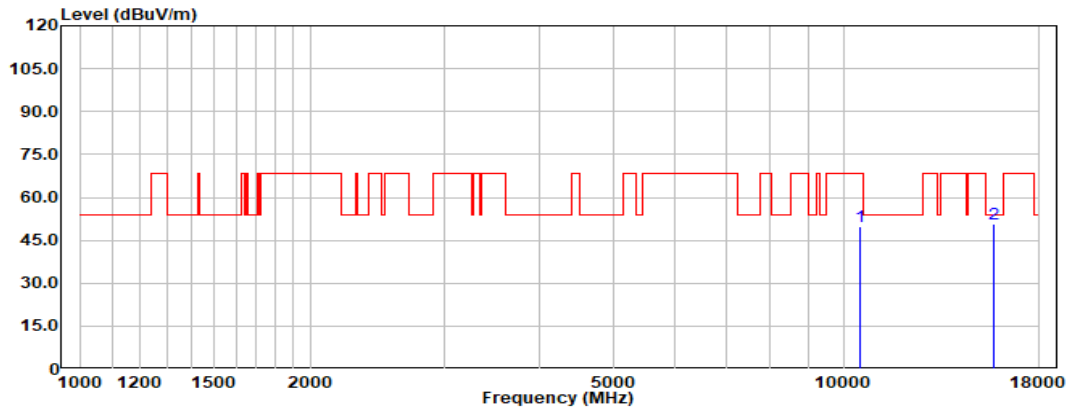
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10480.000	12.60	-500.00	582.49	49.71	68.30	-18.59	Peak		
2	15720.000	14.81	-500.00	580.30	50.70	54.00	-3.30	Peak		



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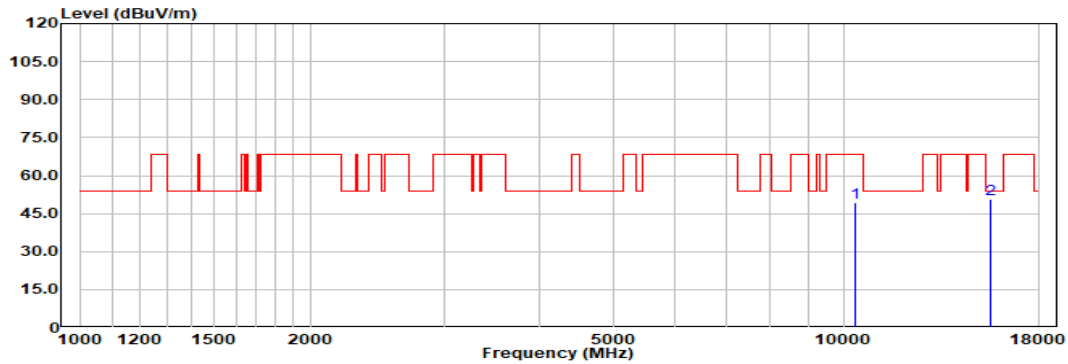
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Report No.: KSCR220600092404

Page: 31 of 124

Test Mode: 01; Polarity: Horizontal; 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	10360.000	12.58	-500.00	582.02	49.24	68.30	-19.06	Peak		
2	15540.000	14.80	-500.00	580.76	50.79	54.00	-3.21	Peak		



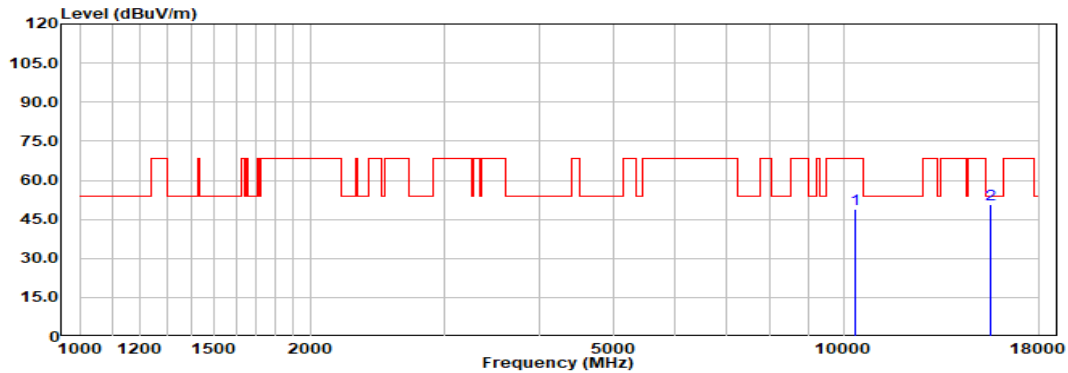
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10360.000	12.58	-500.00	581.83	49.05	68.30	-19.25		Peak
2	15540.000	14.80	-500.00	580.69	50.72	54.00	-3.28		Peak



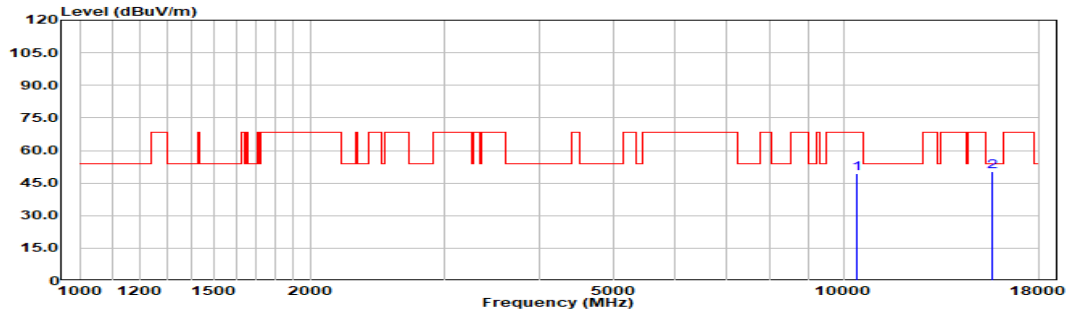
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10400.000	12.58	-500.00	582.31	49.53	68.30	-18.77		Peak
2	15600.000	14.80	-500.00	580.07	50.22	54.00	-3.78		Peak



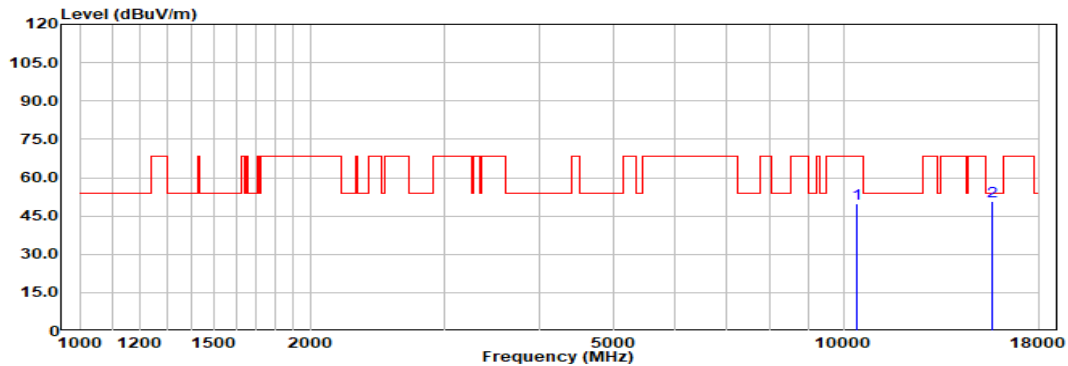
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10400.000	12.58	-500.00	582.53	49.75	68.30	-18.55	Peak		
2	15600.000	14.80	-500.00	580.74	50.89	54.00	-3.11	Peak		



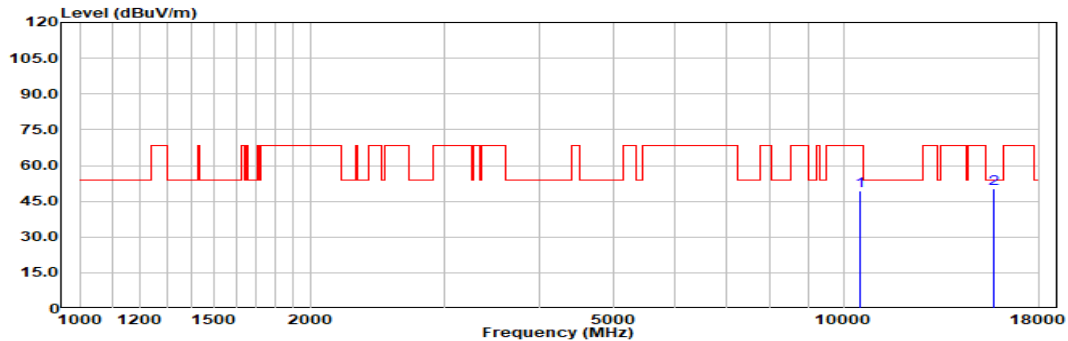
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10480.000	12.60	-500.00	582.02	49.24	68.30	-19.06		Peak
2	15720.000	14.81	-500.00	579.76	50.16	54.00	-3.84		Peak



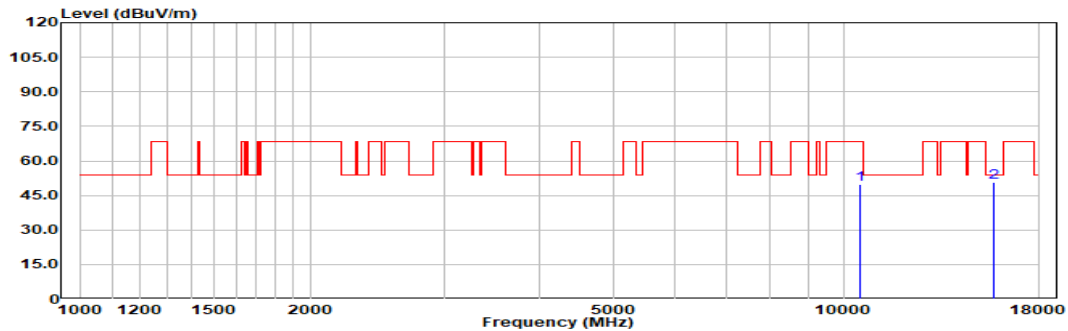
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m						
1	10480.000	12.60	-500.00	582.41	49.63	68.30	-18.67	Peak			
2	15720.000	14.81	-500.00	580.24	50.64	54.00	-3.36	Peak			



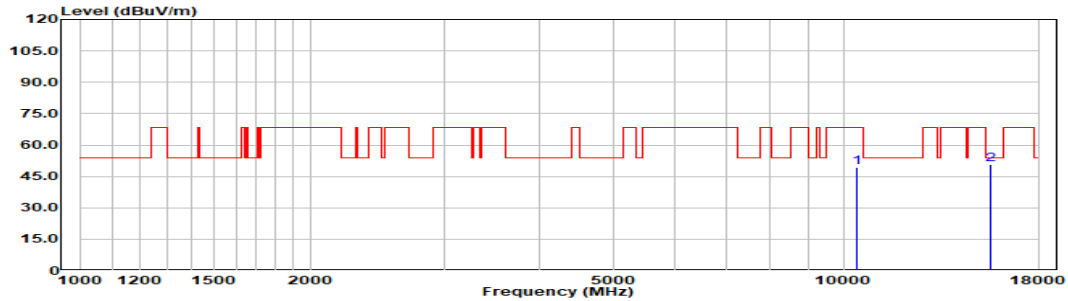
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10380.000	12.58	-500.00	582.00	49.22	68.30	-19.08	Peak	
2	15570.000	14.80	-500.00	580.46	50.55	54.00	-3.45	Peak	



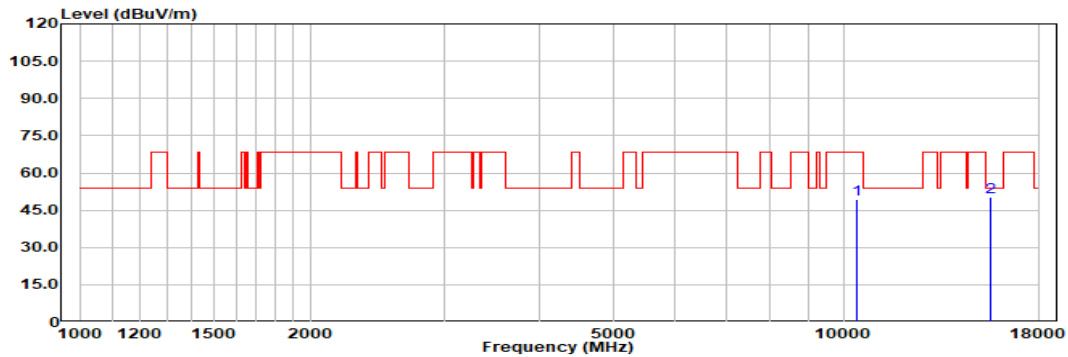
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10380.000	12.58	-500.00	582.19	49.41	68.30	-18.89		Peak
2	15570.000	14.80	-500.00	580.28	50.37	54.00	-3.63		Peak



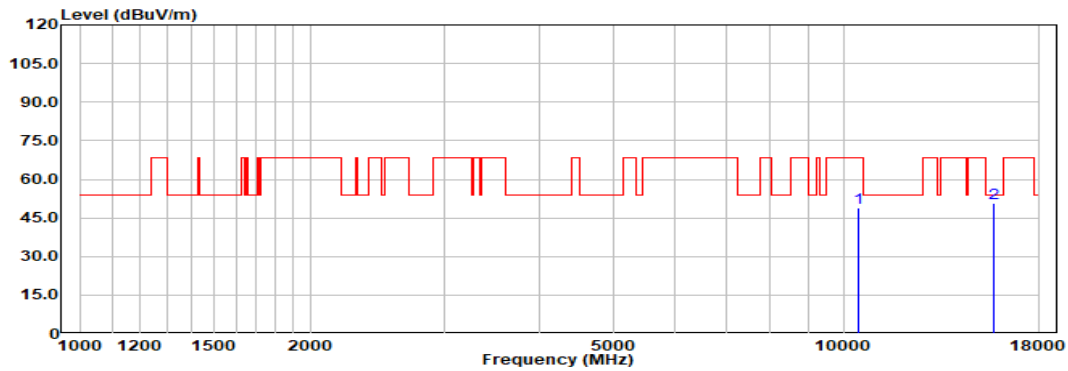
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10460.000	12.60	-500.00	581.89	49.12	68.30	-19.18		Peak
2	15690.000	14.81	-500.00	580.39	50.73	54.00	-3.27		Peak



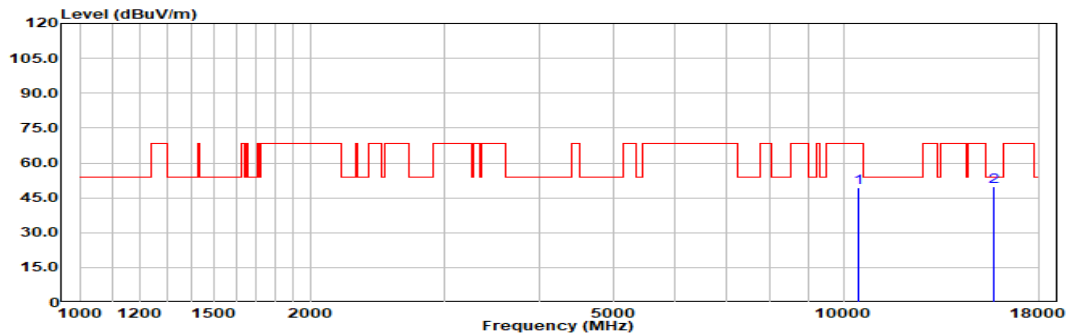
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10460.000	12.60	-500.00	582.04	49.27	68.30	-19.03		Peak
2	15690.000	14.81	-500.00	579.69	50.03	54.00	-3.97		Peak



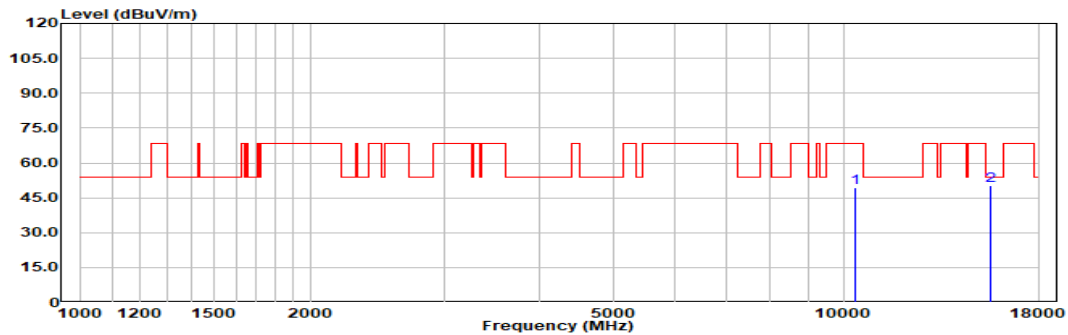
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dBuV	dBuV/m				
1 10360.000	12.58	-500.00	582.11	49.33	68.30	-18.97		Peak
2 15540.000	14.80	-500.00	580.24	50.27	54.00	-3.73		Peak



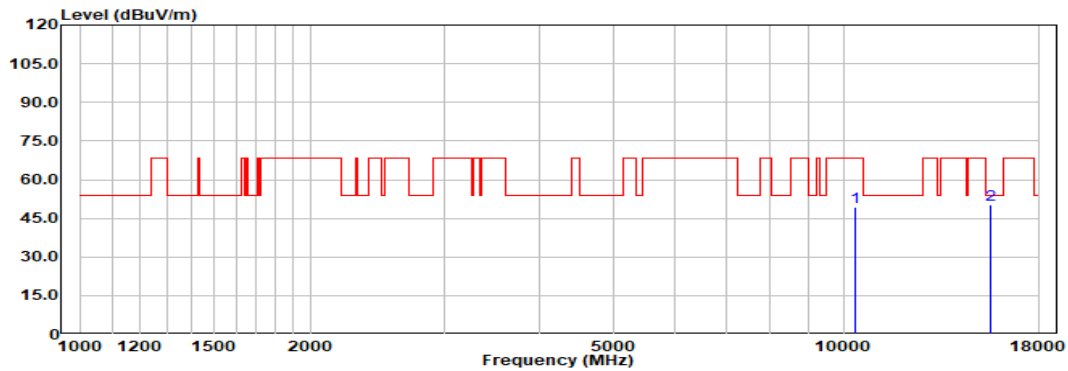
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dBuV	dBuV/m				
1 10360.000	12.58	-500.00	582.36	49.58	68.30	-18.72		Peak
2 15540.000	14.80	-500.00	580.41	50.44	54.00	-3.56		Peak



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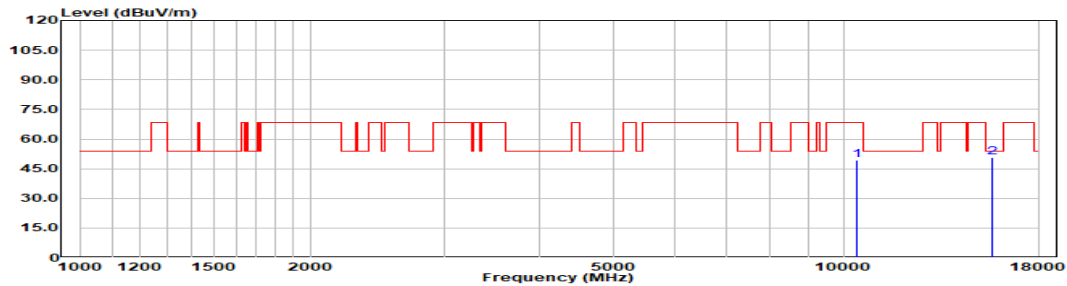
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Report No.: KSCR220600092404

Page: 43 of 124

Test Mode: 01; 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	10400.000	12.58	-500.00	582.23	49.45	68.30	-18.85		Peak
2	15600.000	14.80	-500.00	580.73	50.88	54.00	-3.12		Peak

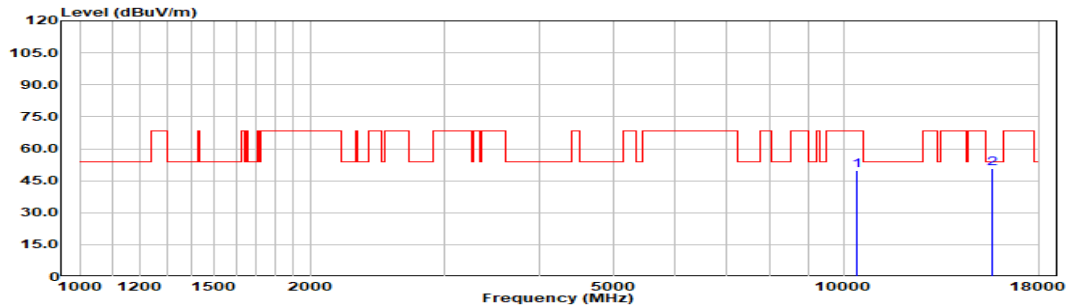


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 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Mode: 01; 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	10400.000	12.58	-500.00	582.59	49.81	68.30	-18.49			Peak
2	15600.000	14.80	-500.00	580.42	50.57	54.00	-3.43			Peak



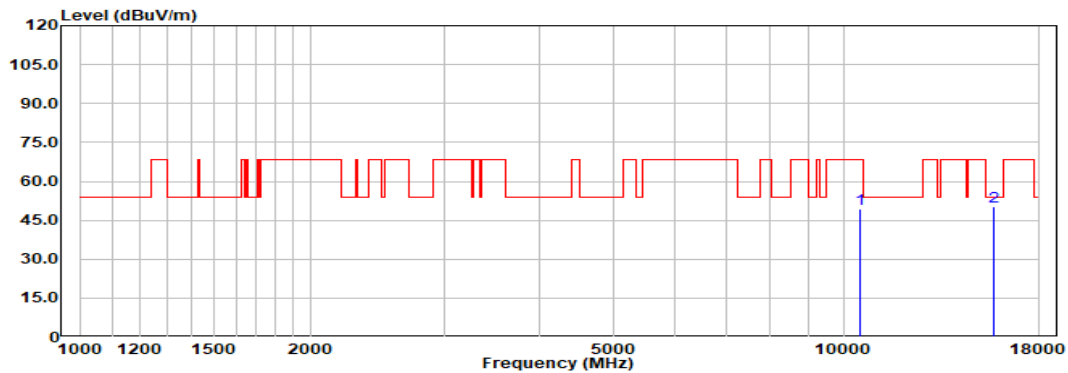
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10480.000	12.60	-500.00	582.29	49.51	68.30	-18.79		Peak	
2	15720.000	14.81	-500.00	579.88	50.28	54.00	-3.72		Peak	

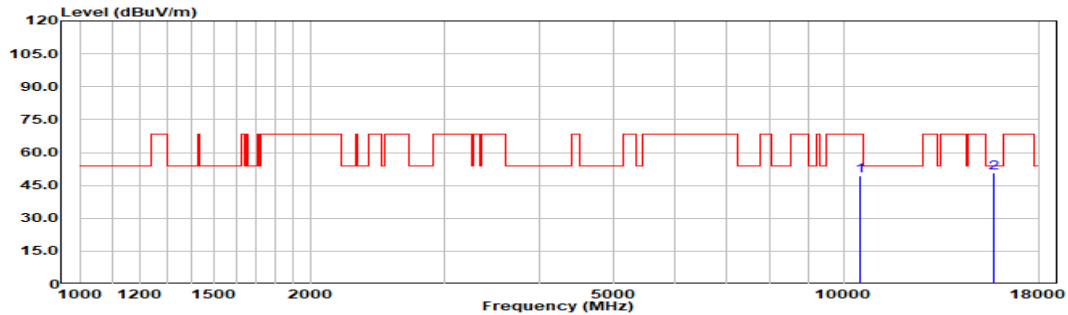


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10480.000	12.60	-500.00	582.07	49.29	68.30	-19.01		Peak
2	15720.000	14.81	-500.00	580.15	50.55	54.00	-3.45		Peak



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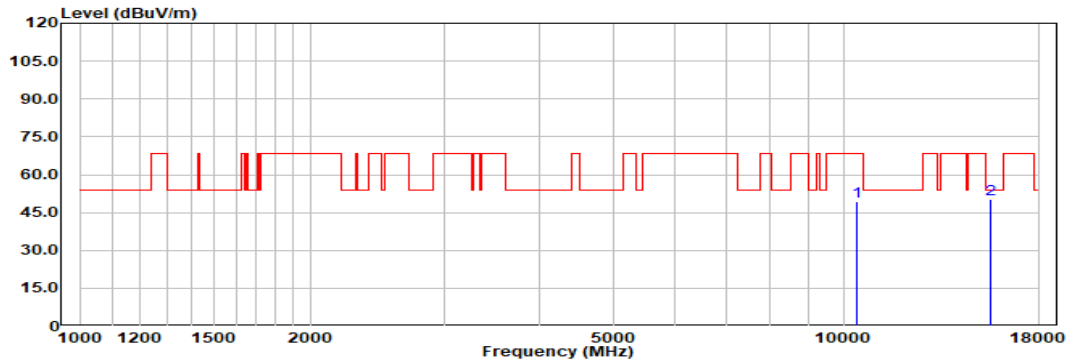
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10380.000	12.58	-500.00	582.21	49.43	68.30	-18.87		Peak
2	15570.000	14.80	-500.00	580.17	50.26	54.00	-3.74		Peak

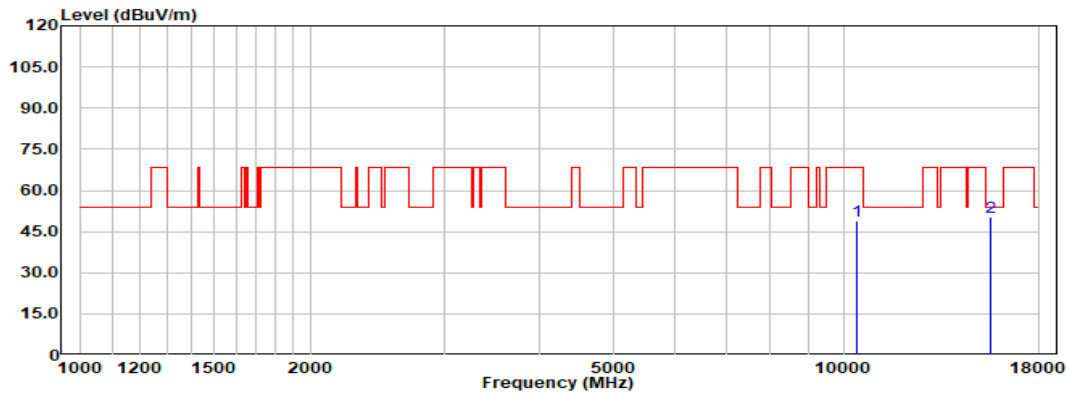


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10380.000	12.58	-500.00	581.86	49.08	68.30	-19.22		Peak
2	15570.000	14.80	-500.00	580.10	50.19	54.00	-3.81		Peak

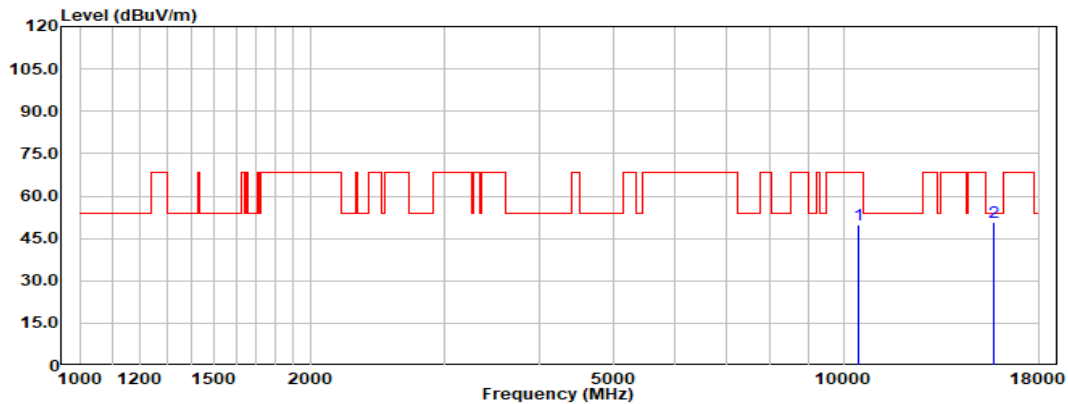


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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	10460.000	12.60	-500.00	582.53	49.76	68.30	-18.54		Peak
2	15690.000	14.81	-500.00	580.48	50.82	54.00	-3.18		Peak

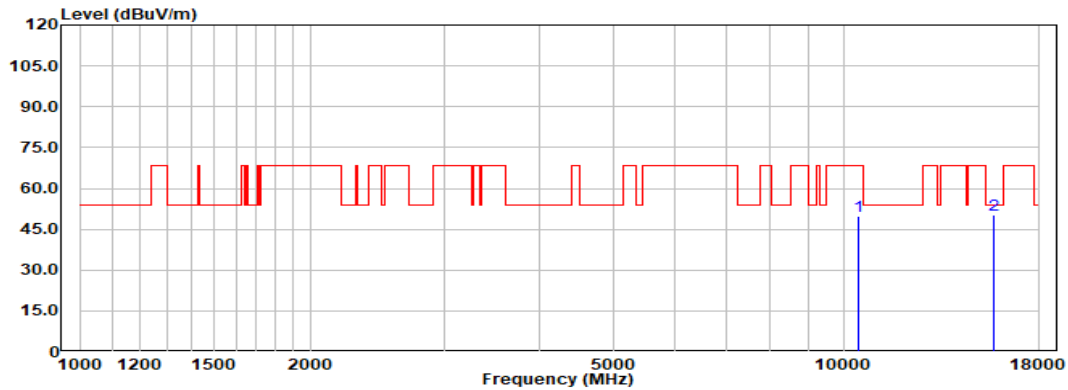


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10460.000	12.60	-500.00	582.70	49.93	68.30	-18.37	Peak		
2	15690.000	14.81	-500.00	579.82	50.16	54.00	-3.84	Peak		

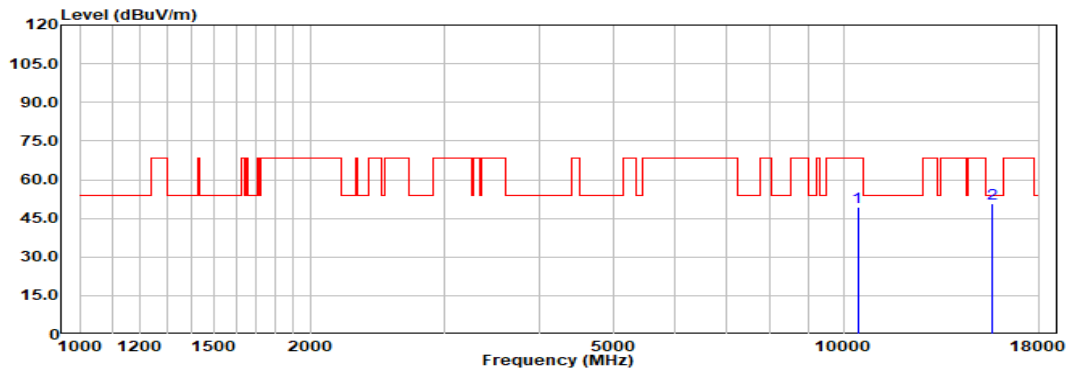


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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
MHz	dB	dB/m	dBuV	dBuV/m				
1 10420.000	12.59	-500.00	581.98	49.20	68.30	-19.10		Peak
2 15630.000	14.80	-500.00	580.57	50.78	54.00	-3.22		Peak

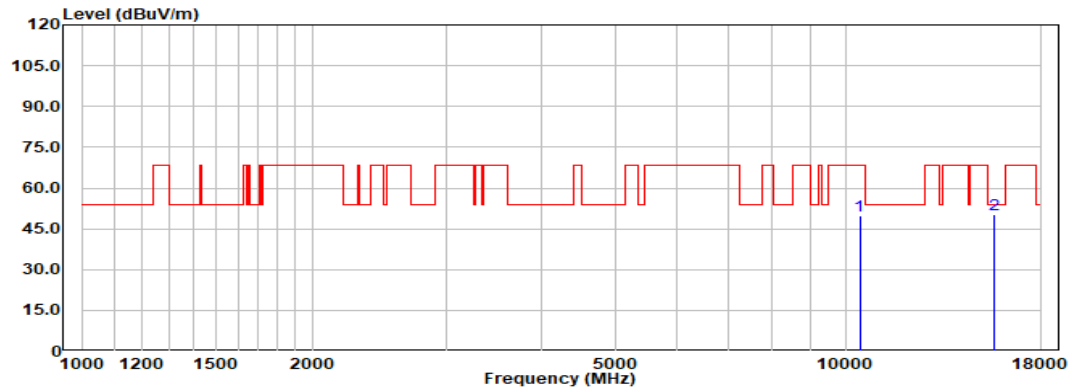


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	10420.000	12.59	-500.00	582.50	49.72	68.30	-18.58	Peak		
2	15630.000	14.80	-500.00	579.89	50.10	54.00	-3.90	Peak		

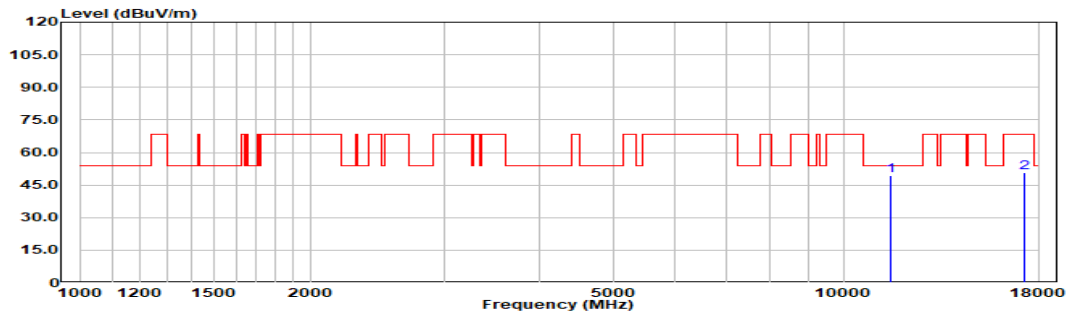


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11490.000	13.08	-500.00	582.06	49.21	54.00	-4.79		Peak
2	17235.000	16.12	-500.00	578.08	50.52	68.30	-17.78		Peak



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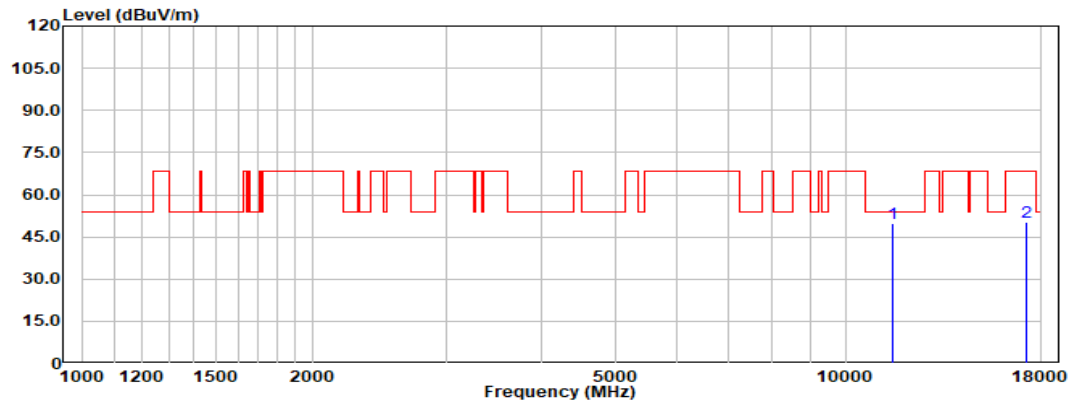
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11490.000	13.08	-500.00	582.65	49.80	54.00	-4.20		Peak	
2	17235.000	16.12	-500.00	577.84	50.28	68.30	-18.02		Peak	

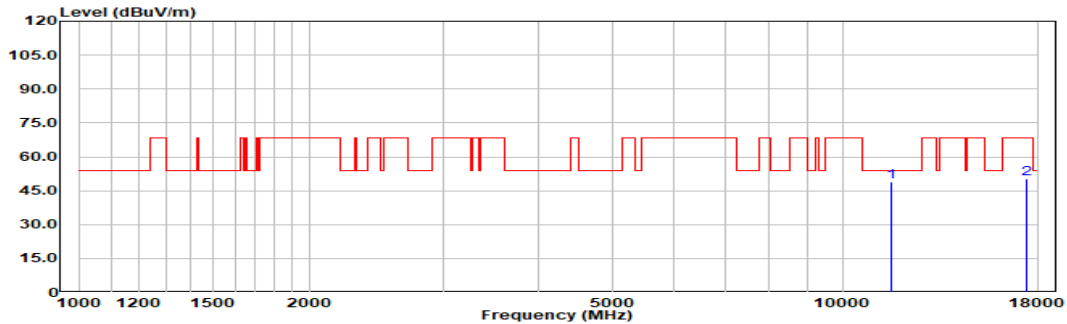


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G FCC	Over 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11570.000	13.13	-500.00	581.85	49.08	54.00	-4.92	Peak
2	17355.000	16.24	-500.00	577.46	50.15	68.30	-18.15	Peak



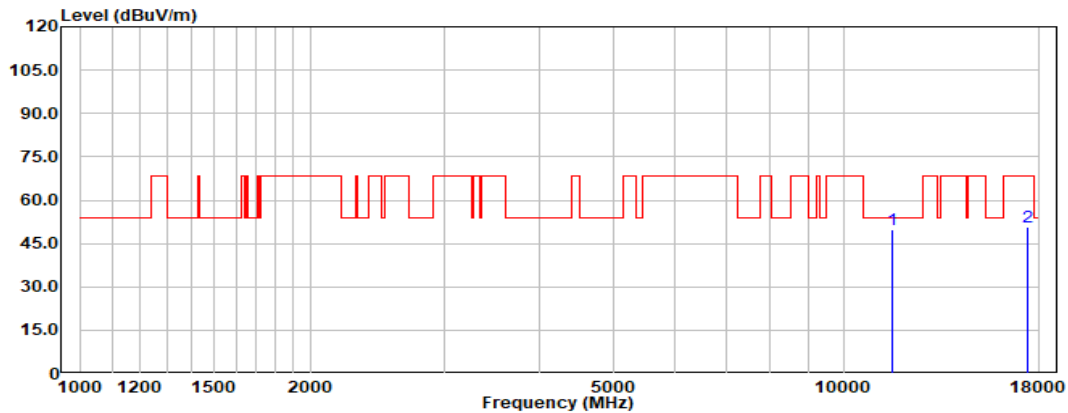
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11570.000	13.13	-500.00	582.72	49.95	54.00	-4.05		Peak	
2	17355.000	16.24	-500.00	577.86	50.55	68.30	-17.75		Peak	



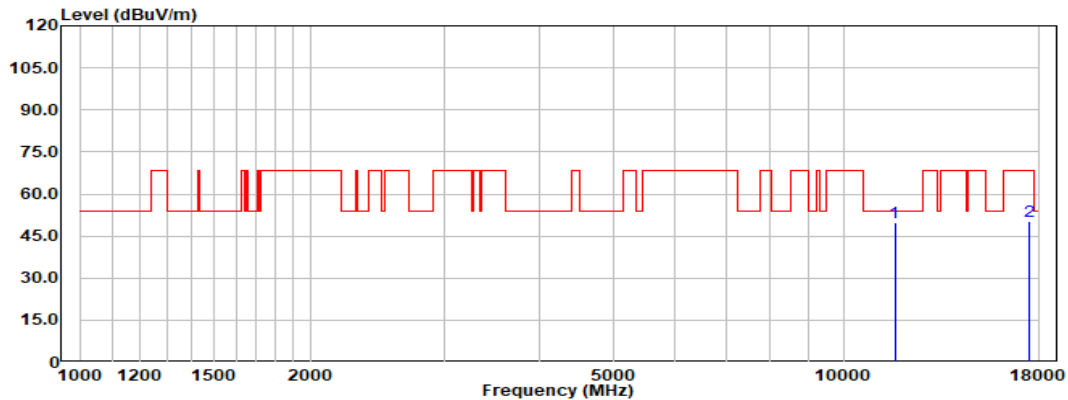
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11650.000	13.18	-500.00	582.50	49.82	54.00	-4.18	Peak		
2	17475.000	16.33	-500.00	577.32	50.22	68.30	-18.08	Peak		



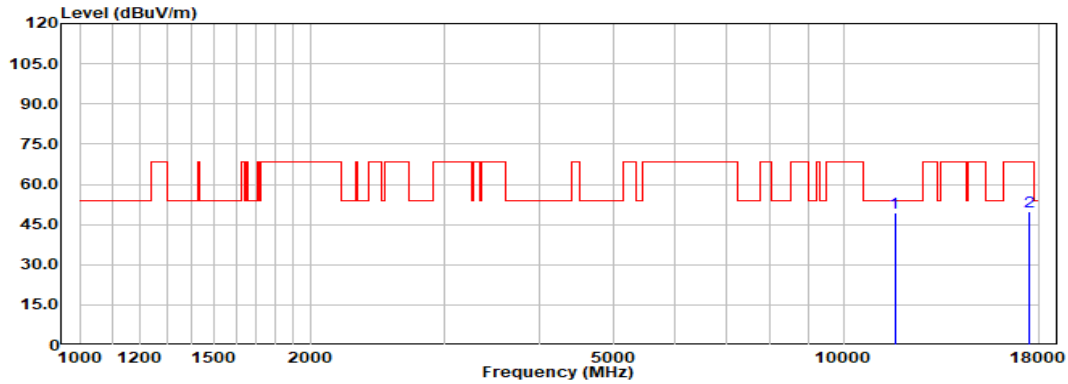
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11650.000	13.18	-500.00	582.10	49.42	54.00	-4.58		Peak	
2	17475.000	16.33	-500.00	577.10	50.00	68.30	-18.30		Peak	

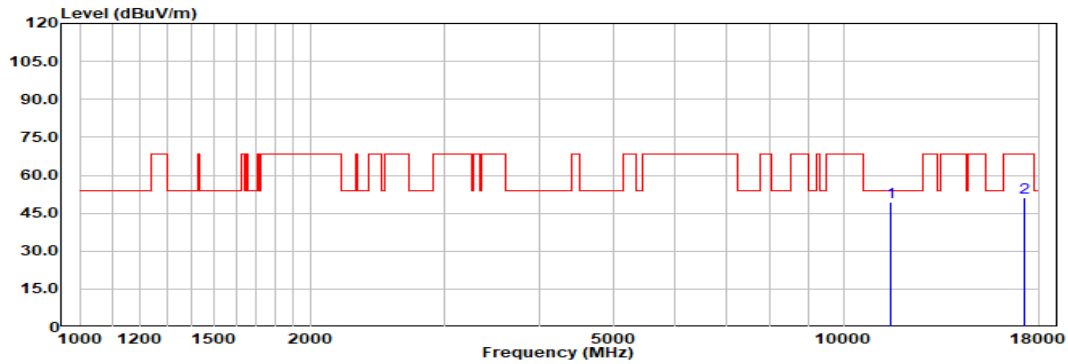


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m						
1	11490.000	13.08	-500.00	582.26	49.41	54.00	-4.59	Peak			
2	17235.000	16.12	-500.00	578.54	50.98	68.30	-17.32	Peak			



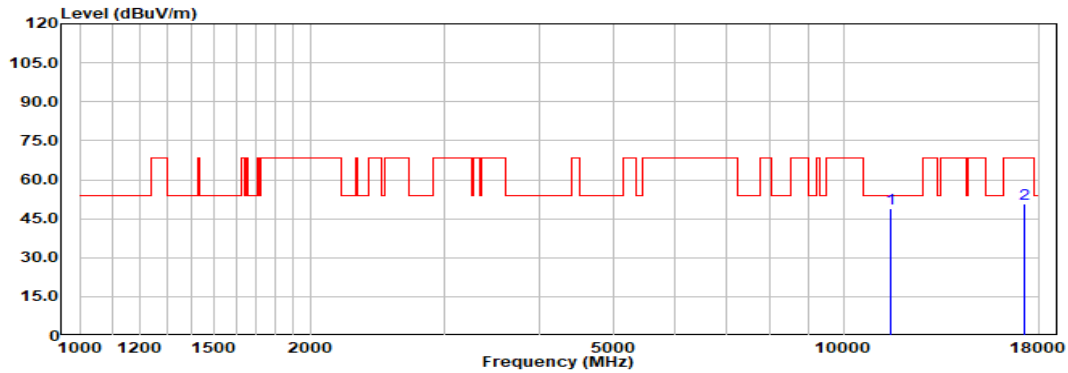
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	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	581.87	49.02	54.00	-4.98		Peak
2	17235.000	16.12	-500.00	578.35	50.79	68.30	-17.51		Peak

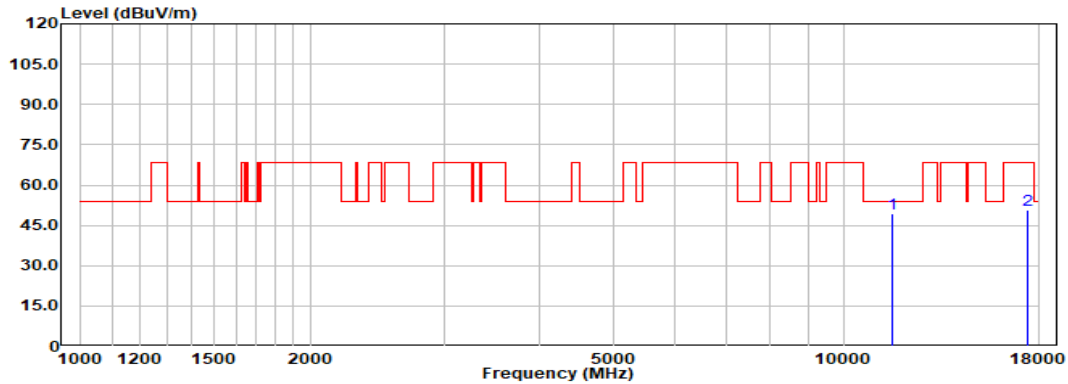


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over 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	577.96	50.65	68.30	-17.65		Peak

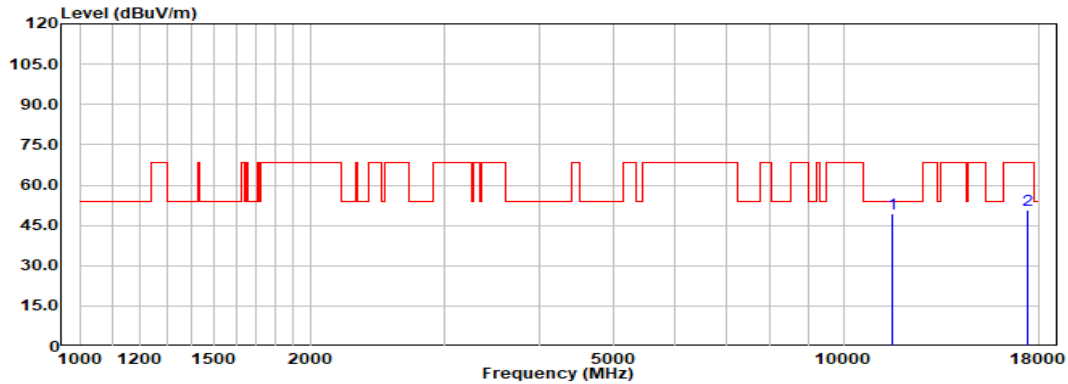


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11570.000	13.13	-500.00	582.23	49.46	54.00	-4.54		Peak	
2	17355.000	16.24	-500.00	577.83	50.52	68.30	-17.78		Peak	

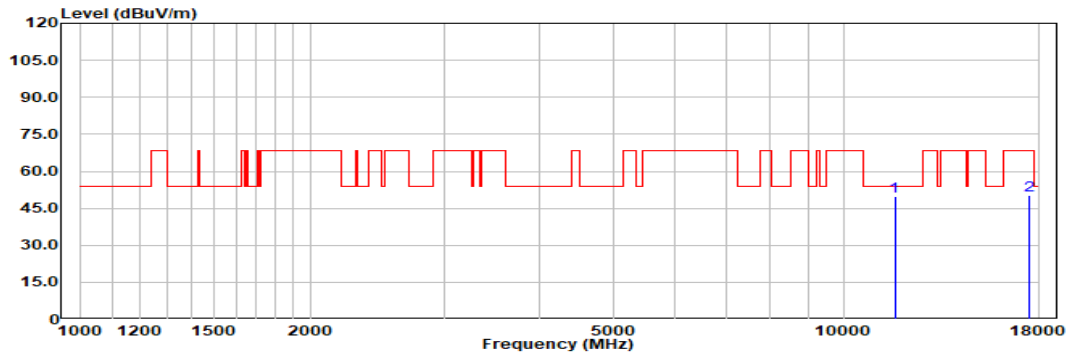


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11650.000	13.18	-500.00	582.56	49.88	54.00	-4.12		Peak
2	17475.000	16.33	-500.00	577.15	50.05	68.30	-18.25		Peak



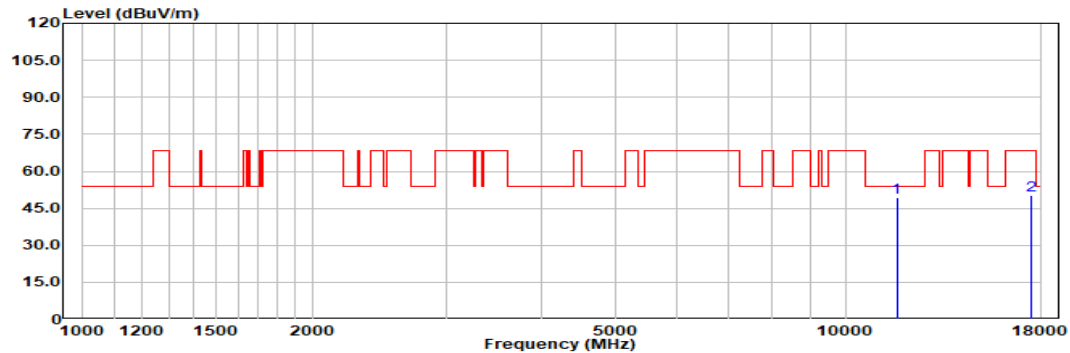
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	Over FCC 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	11650.000	13.18	-500.00	582.14	49.46	54.00	-4.54	Peak
2	17475.000	16.33	-500.00	577.40	50.30	68.30	-18.00	Peak



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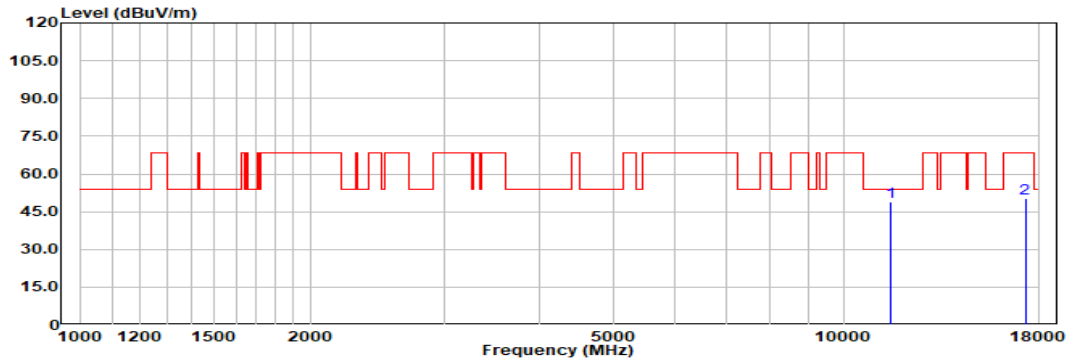
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11510.000	13.09	-500.00	581.87	49.03	54.00	-4.97		Peak
2	17265.000	16.15	-500.00	577.99	50.49	68.30	-17.81		Peak



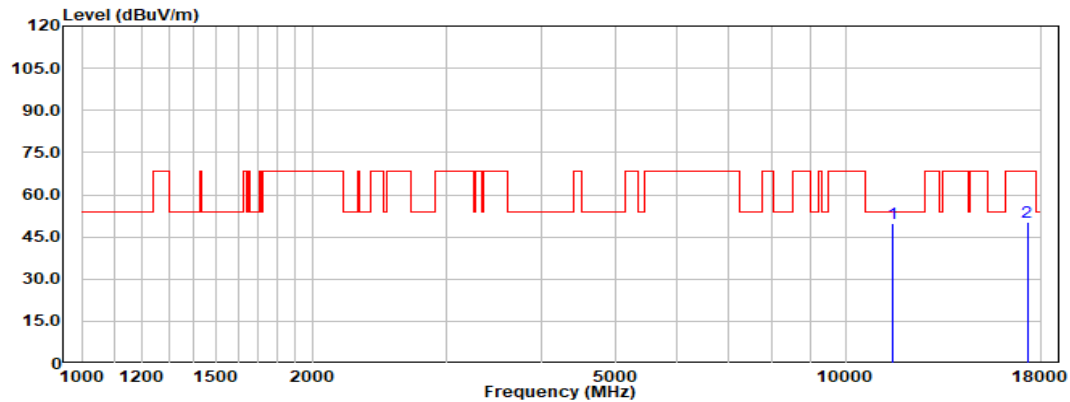
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	FCC 5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11510.000	13.09	-500.00	582.56	49.72	54.00	-4.28	Peak	
2	17265.000	16.15	-500.00	577.59	50.09	68.30	-18.21	Peak	



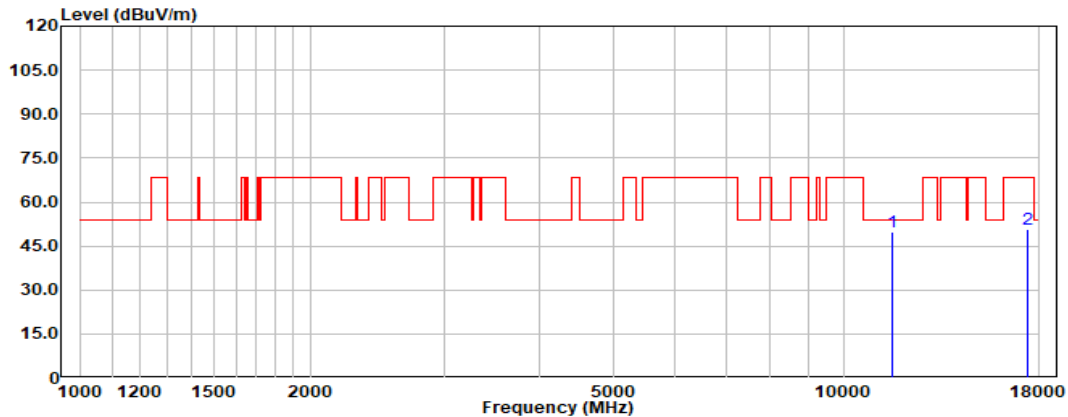
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11590.000	13.14	-500.00	582.45	49.69	54.00	-4.31	Peak		
2	17385.000	16.27	-500.00	578.19	50.94	68.30	-17.36	Peak		



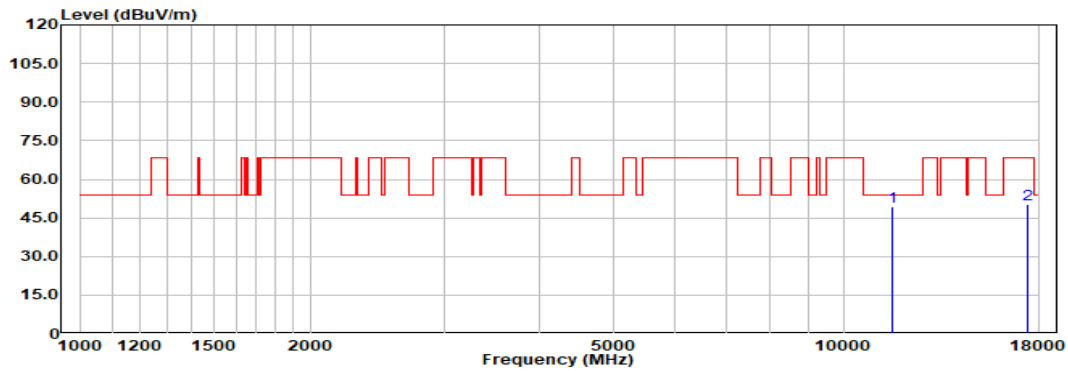
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11590.000	13.14	-500.00	582.22	49.46	54.00	-4.54		Peak
2	17385.000	16.27	-500.00	577.59	50.34	68.30	-17.96		Peak



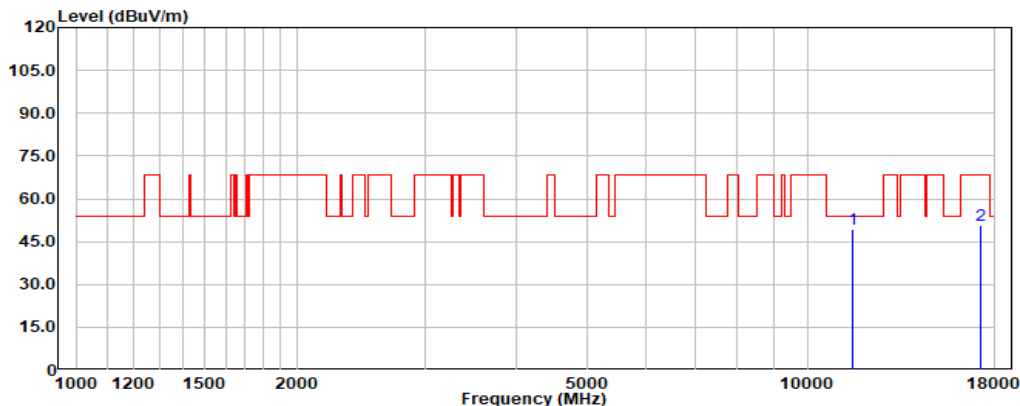
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	FCC 5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11490.000	13.08	-500.00	582.41	49.56	54.00	-4.44	Peak	
2	17235.000	16.12	-500.00	578.31	50.75	68.30	-17.55	Peak	



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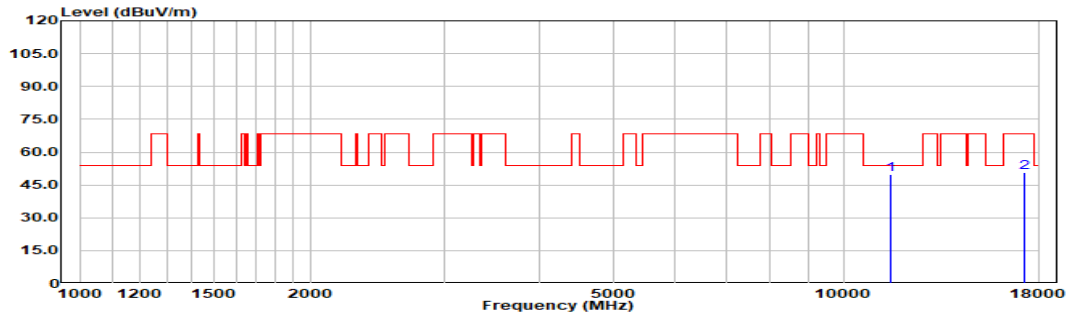
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Report No.: KSCR220600092404

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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	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11490.000	13.08	-500.00	582.48	49.63	54.00	-4.37		Peak
2	17235.000	16.12	-500.00	578.34	50.78	68.30	-17.52		Peak

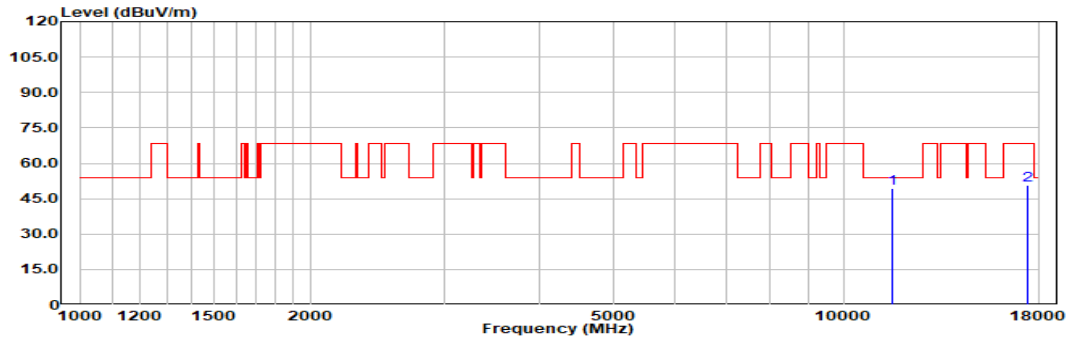


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	11570.000	13.13	-500.00	582.31	49.54	54.00	-4.46	Peak		
2	17355.000	16.24	-500.00	577.84	50.53	68.30	-17.77	Peak		



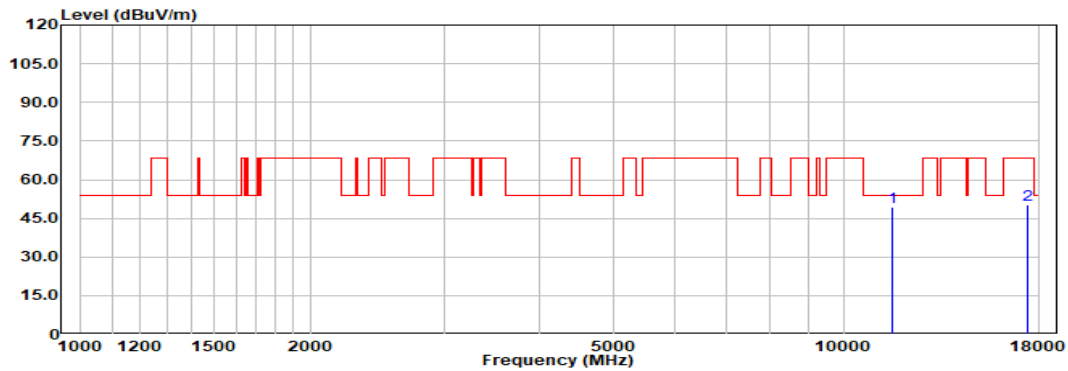
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11570.000	13.13	-500.00	582.05	49.28	54.00	-4.72		Peak
2	17355.000	16.24	-500.00	577.37	50.06	68.30	-18.24		Peak



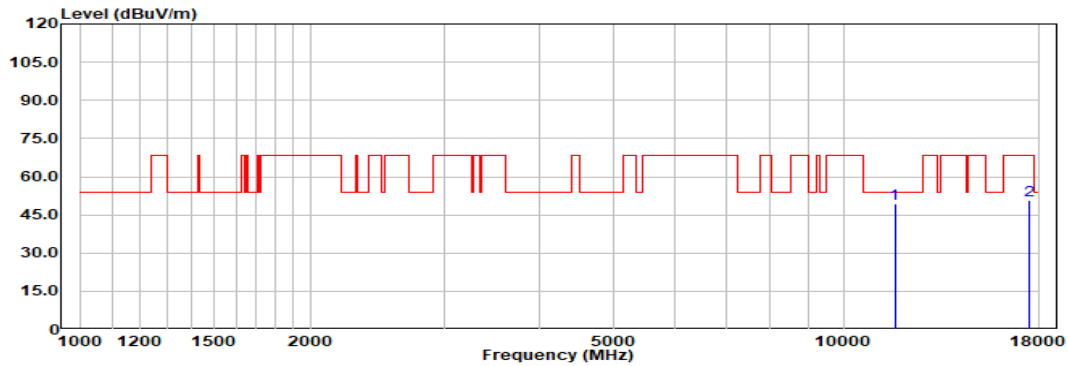
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



	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	582.24	49.56	54.00	-4.44	Peak	
2	17475.000	16.33	-500.00	577.83	50.73	68.30	-17.57	Peak	



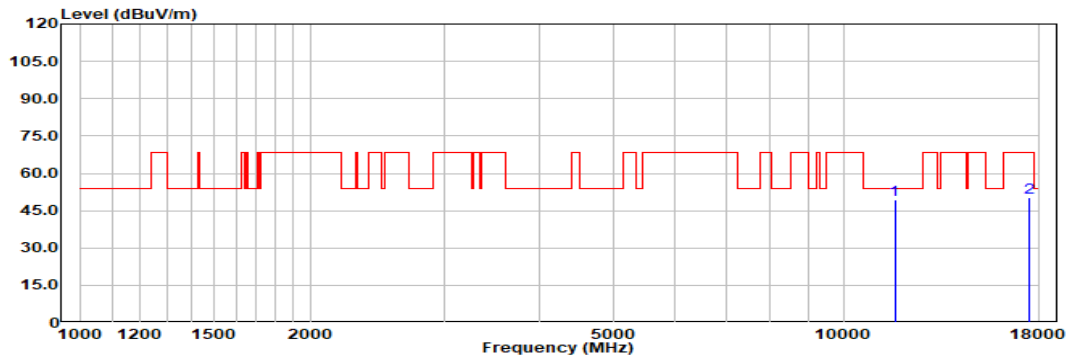
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11650.000	13.18	-500.00	582.19	49.51	54.00	-4.49		Peak
2	17475.000	16.33	-500.00	577.22	50.12	68.30	-18.18		Peak



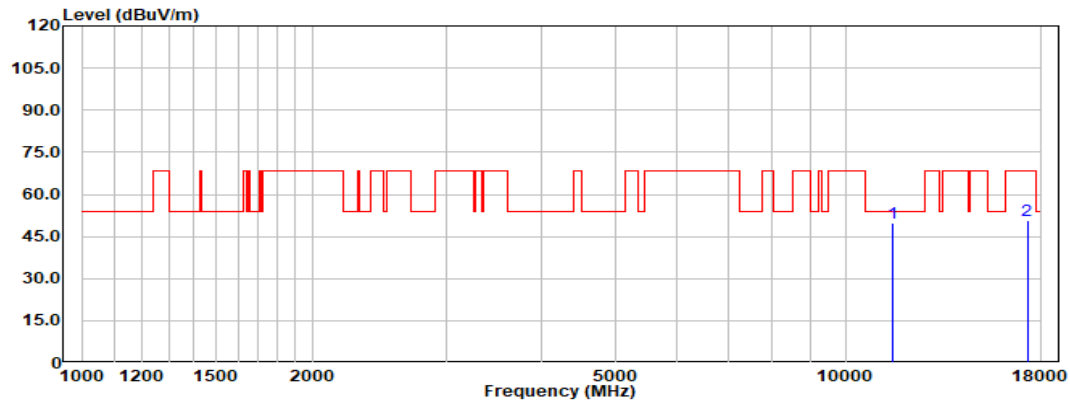
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	FCC 5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11510.000	13.09	-500.00	582.53	49.69	54.00	-4.31	Peak	
2	17265.000	16.15	-500.00	578.10	50.60	68.30	-17.70	Peak	



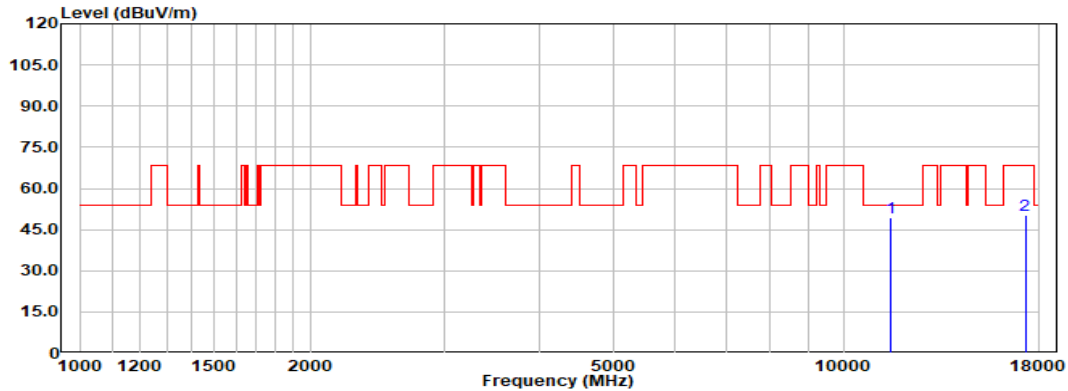
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC 5G	Over FCC 5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m		
1	11510.000	13.09	-500.00	582.36	49.52	54.00	-4.48 Peak
2	17265.000	16.15	-500.00	577.76	50.26	68.30	-18.04 Peak

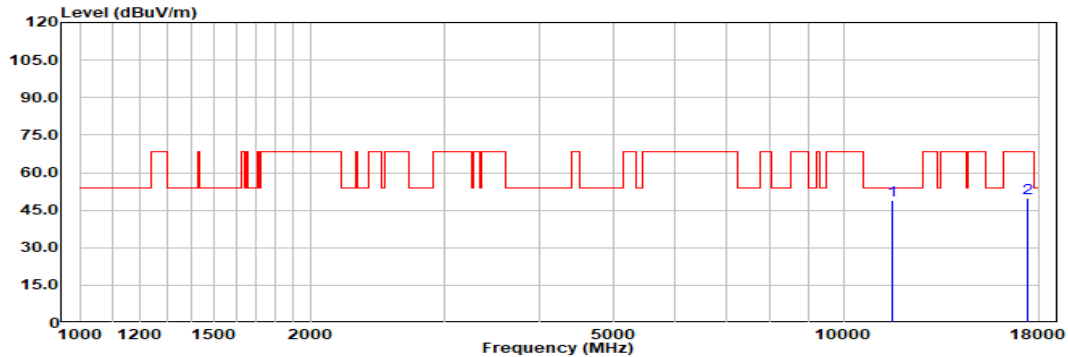


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



	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	581.89	49.13	54.00	-4.87	Peak		
2	17385.000	16.27	-500.00	577.28	50.03	68.30	-18.27	Peak		



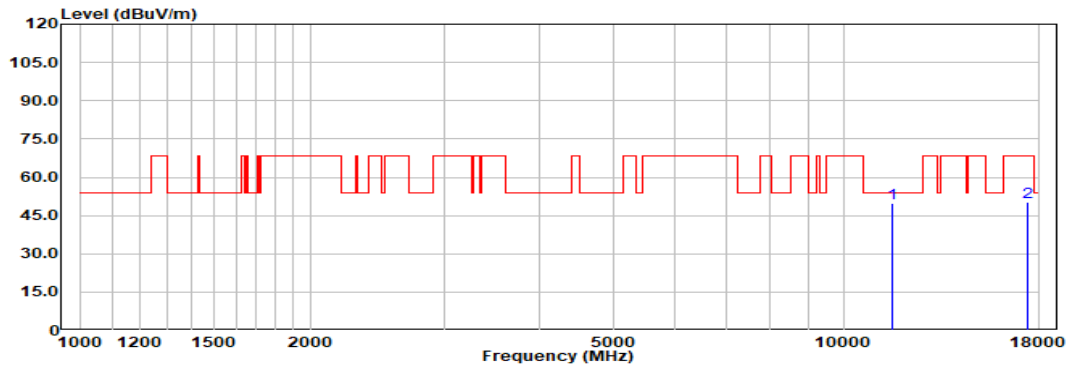
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	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	582.39	49.63	54.00	-4.37		Peak
2	17385.000	16.27	-500.00	577.48	50.23	68.30	-18.07		Peak



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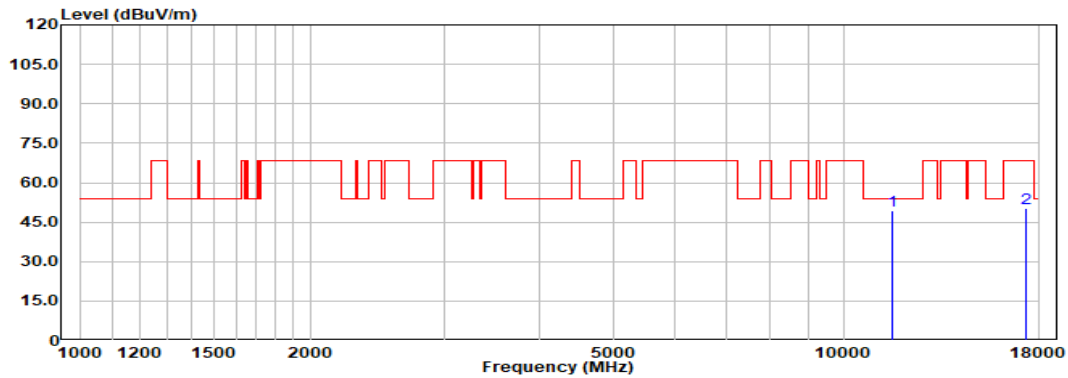
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Report No.: KSCR220600092404

Page: 79 of 124

Test Mode: 02; 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	11550.000	13.12	-500.00	582.26	49.47	54.00	-4.53		Peak
2	17325.000	16.21	-500.00	577.48	50.10	68.30	-18.20		Peak



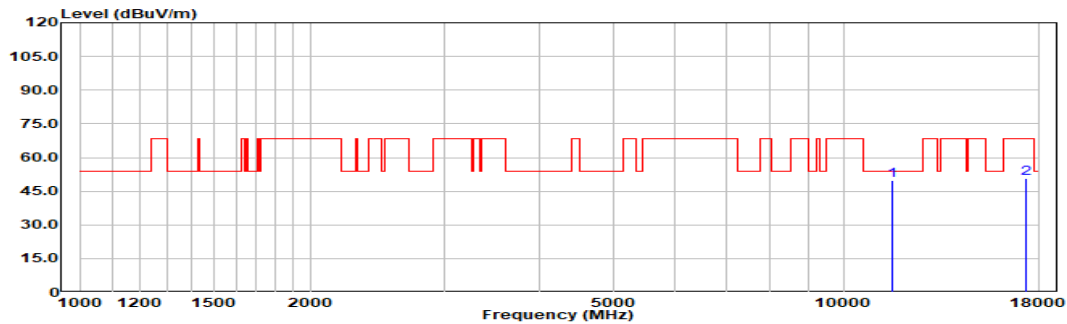
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	11550.000	13.12	-500.00	582.77	49.98	54.00	-4.02		Peak
2	17325.000	16.21	-500.00	578.24	50.86	68.30	-17.44		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

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: 24.1 °C

Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode	Description
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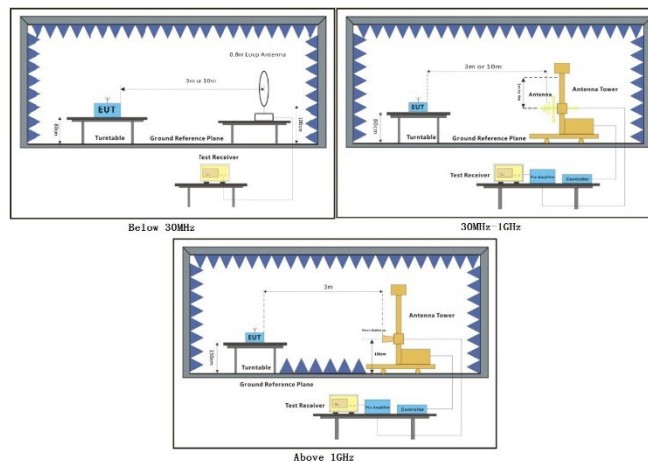
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	Code	
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ 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-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- Preamplifier Factor

Remark: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for 11a modulation and MIMO antenna operation for 11n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

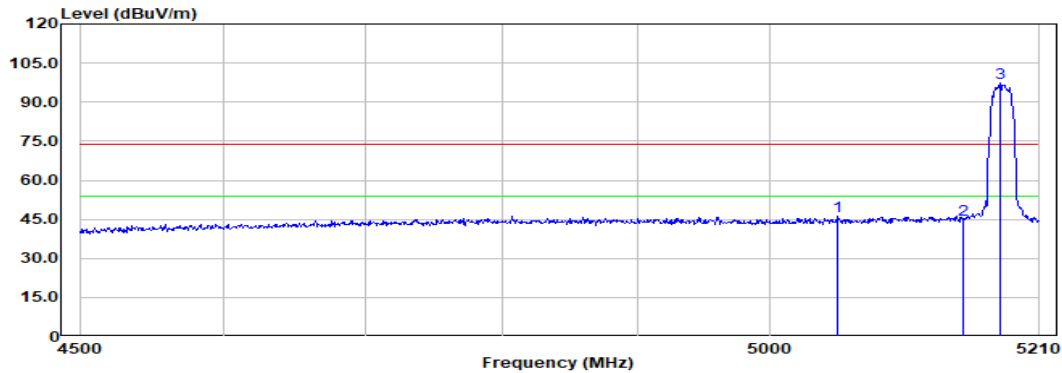


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	5051.670	8.27	32.64	52.74	46.09	74.00	-27.91	Peak
2	5150.000	8.39	32.61	51.27	44.68	74.00	-29.32	Peak
3	5178.760	8.43	32.59	103.86	97.28	74.00	23.28	Peak

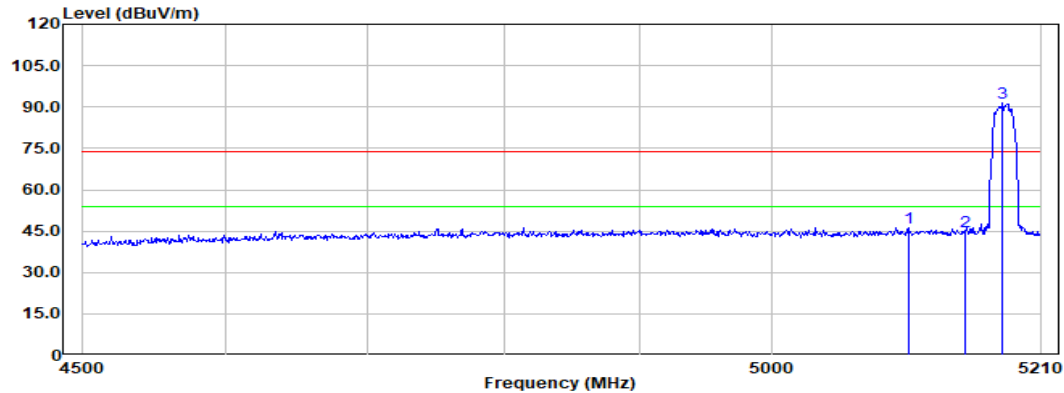


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	5105.630	8.33	32.65	52.92	46.32	74.00	-27.68	Peak
2	5150.000	8.39	32.61	51.23	44.64	74.00	-29.36	Peak
3	5179.470	8.43	32.59	98.14	91.56	74.00	17.56	Peak



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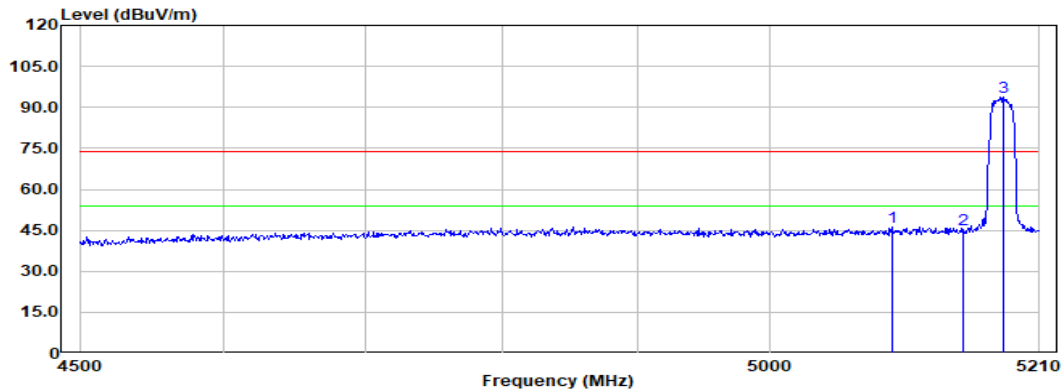
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	5094.270	8.32	32.65	52.71	46.11	74.00	-27.89	Peak
2	5150.000	8.39	32.61	52.09	45.50	74.00	-28.50	Peak
3	5181.600	8.43	32.58	100.53	93.94	74.00	19.94	Peak



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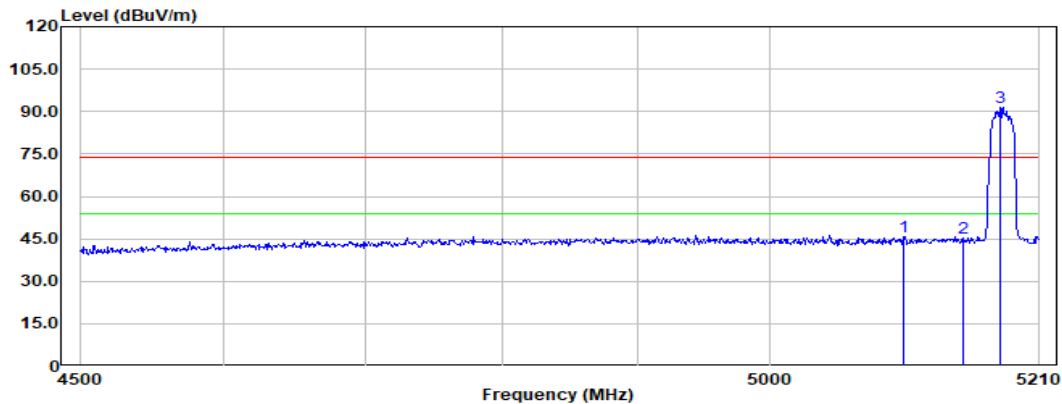
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	CLAFCC		
1	5102.790	8.33	32.65	52.32	45.72	74.00	-28.28	Peak
2	5150.000	8.39	32.61	52.05	45.46	74.00	-28.54	Peak
3	5178.760	8.43	32.59	97.96	91.38	74.00	17.38	Peak



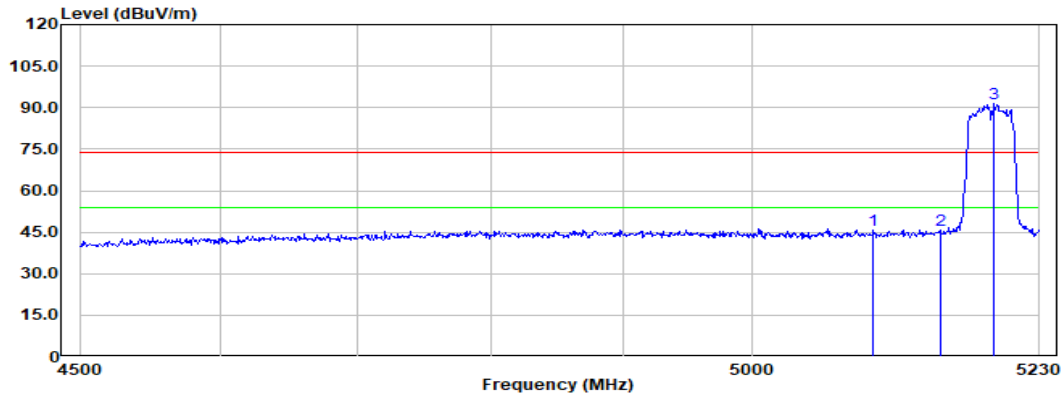
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	CLAFCC		
1	5095.680	8.32	32.65	52.52	45.92	74.00	-28.08	Peak
2	5150.000	8.39	32.61	52.14	45.55	74.00	-28.45	Peak
3	5193.500	8.45	32.58	98.09	91.51	74.00	17.51	Peak



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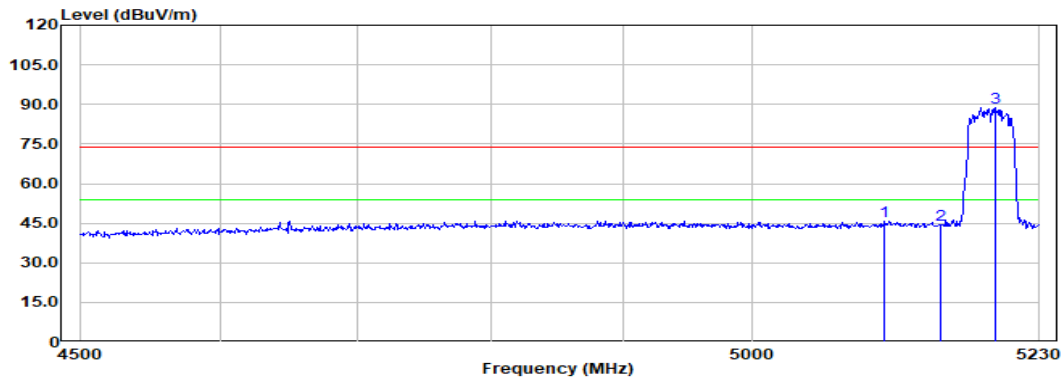
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	5105.170	8.33	32.65	52.24	45.64	74.00	-28.36	Peak
2	5150.000	8.39	32.61	51.04	44.45	74.00	-29.55	Peak
3	5194.230	8.45	32.57	95.37	88.78	74.00	14.78	Peak



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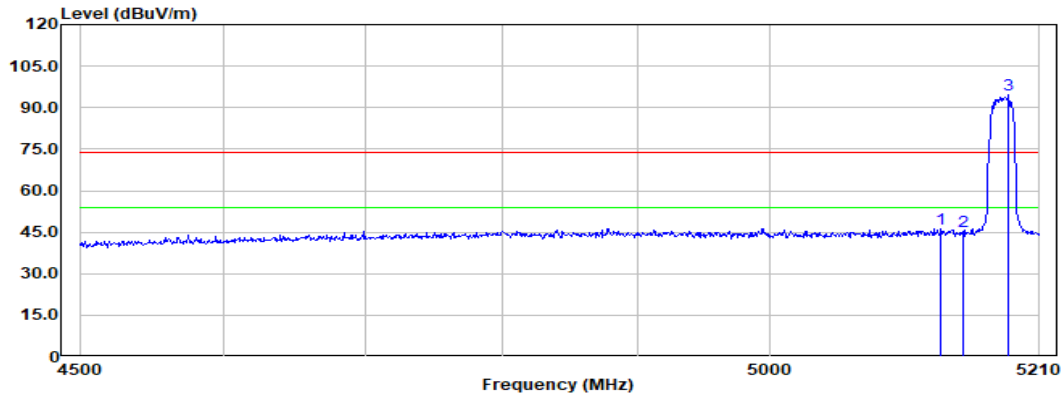
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	CLAFCC		
1	5132.610	8.37	32.62	52.80	46.20	74.00	-27.80	Peak
2	5150.000	8.39	32.61	51.86	45.27	74.00	-28.73	Peak
3	5185.860	8.44	32.58	101.19	94.60	74.00	20.60	Peak



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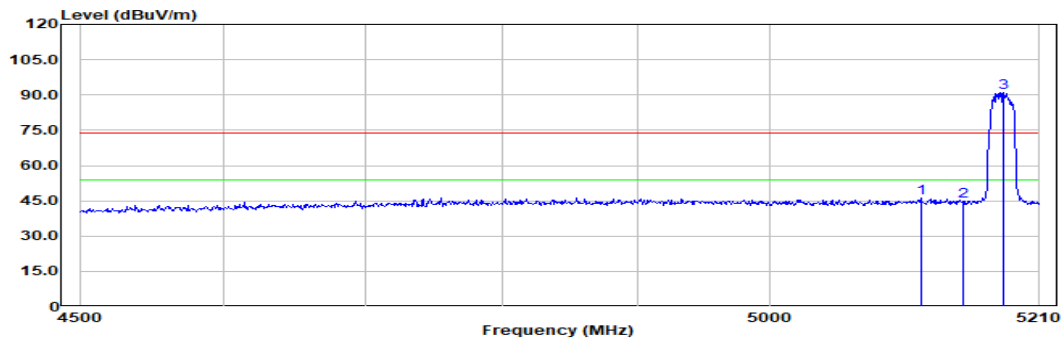
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Report No.: KSCR220600092404

Page: 91 of 124

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



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over CLAFCC	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	5116.990	8.35	32.64	52.70	46.11	74.00	-27.89	Peak
2	5150.000	8.39	32.61	51.46	44.87	74.00	-29.13	Peak
3	5181.600	8.43	32.58	97.72	91.13	74.00	17.13	Peak



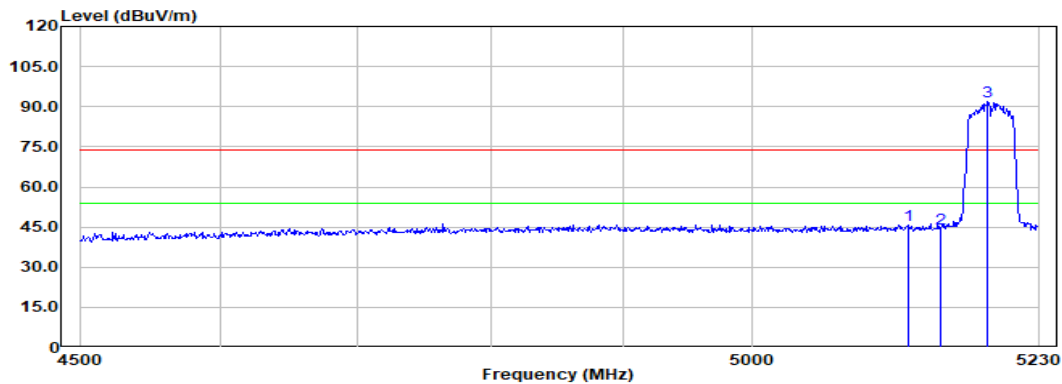
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	5124.150	8.36	32.63	52.21	45.62	74.00	-28.38	Peak
2	5150.000	8.39	32.61	51.14	44.55	74.00	-29.45	Peak
3	5188.390	8.44	32.58	98.53	91.94	74.00	17.94	Peak



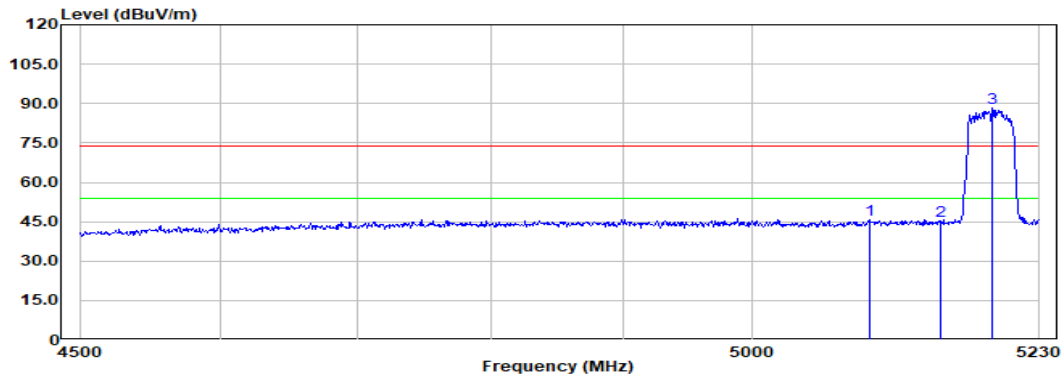
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over CLA	FCC CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m			
1	5093.490	8.32	32.65	52.56	45.96	74.00	-28.04	Peak
2	5150.000	8.39	32.61	51.83	45.24	74.00	-28.76	Peak
3	5192.040	8.44	32.58	94.81	88.22	74.00	14.22	Peak

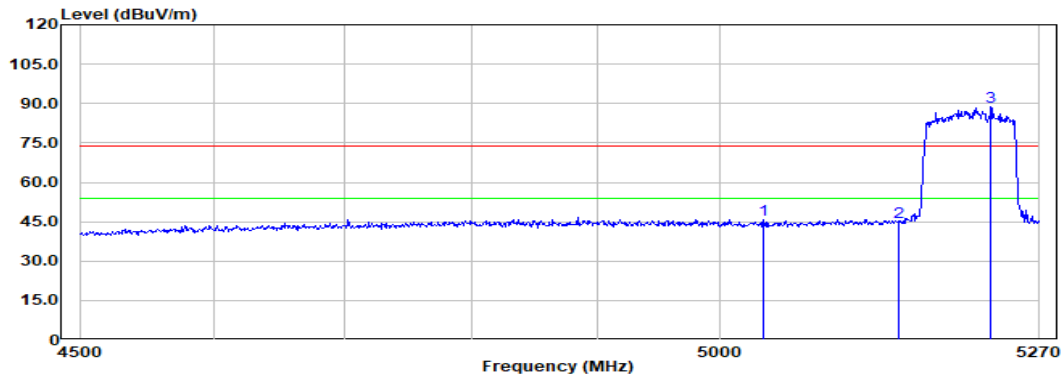


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over	CLA	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5036.690	8.26	32.63	52.60	45.94	74.00	-28.06	Peak	
2	5150.000	8.39	32.61	51.57	44.98	74.00	-29.02	Peak	
3	5228.420	8.49	32.56	95.03	88.54	74.00	14.54	Peak	



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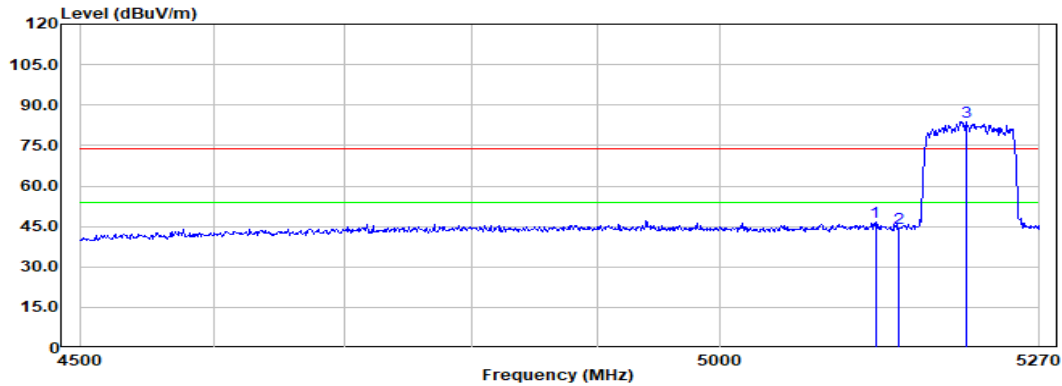
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	Over	CLA	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	CLA	CLA	
1	5129.860	8.37	32.63	53.17	46.58	74.00	-27.42	Peak
2	5150.000	8.39	32.61	50.76	44.17	74.00	-29.83	Peak
3	5206.860	8.46	32.57	90.34	83.78	74.00	9.78	Peak



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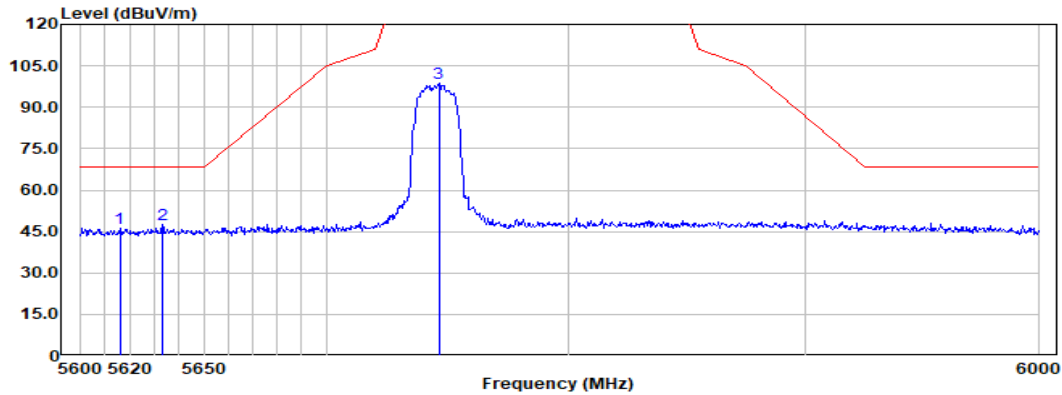
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5616.000	8.94	32.70	51.80	46.24	68.20	-21.96		Peak
2	5633.200	8.95	32.77	52.80	47.33	68.20	-20.87		Peak
3	5746.400	9.01	33.25	103.51	98.70	135.00	-36.30		Peak



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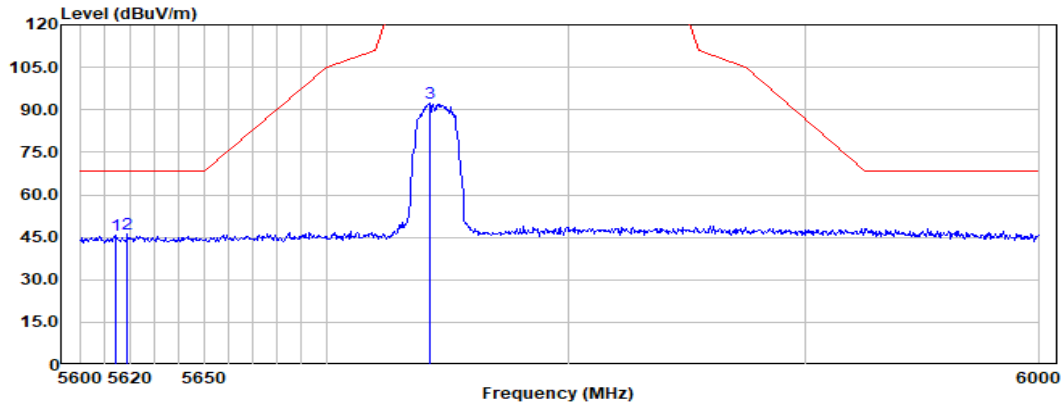
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5614.400	8.94	32.69	51.32	45.75	68.20	-22.45		Peak
2	5619.200	8.94	32.71	51.60	46.05	68.20	-22.15		Peak
3	5742.800	9.01	33.24	97.09	92.27	135.00	-42.73		Peak



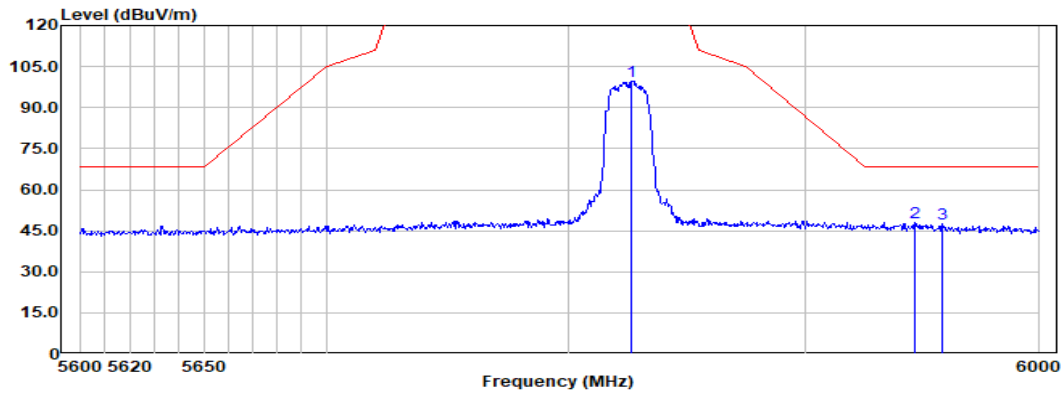
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5826.800	9.05	33.53	104.06	99.58	135.00	-35.42		Peak
2	5946.800	9.11	33.54	52.77	48.14	68.20	-20.06		Peak
3	5958.400	9.12	33.52	52.11	47.45	68.20	-20.75		Peak



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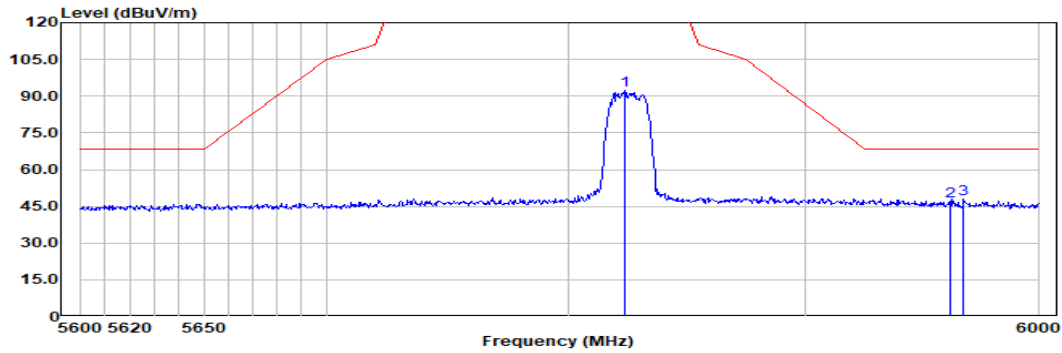
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5823.600	9.05	33.52	97.06	92.58	135.00	-42.42		Peak
2	5962.000	9.12	33.52	51.55	46.88	68.20	-21.32		Peak
3	5967.600	9.12	33.51	52.80	48.11	68.20	-20.09		Peak



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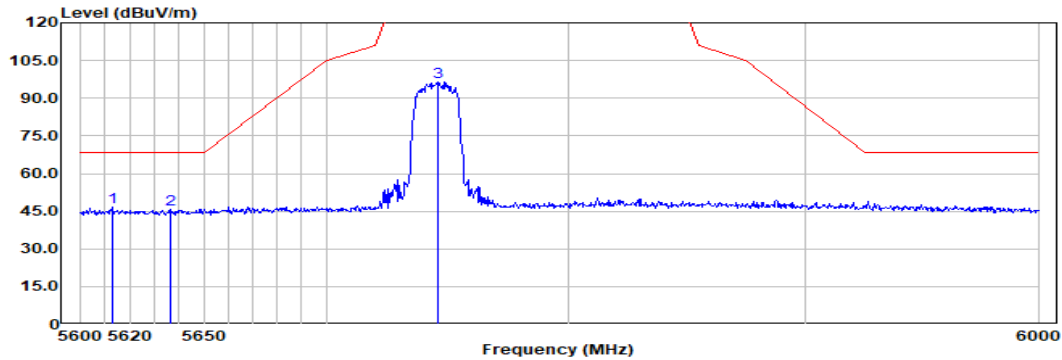
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5613.200	8.94	32.68	52.14	46.55	68.20	-21.65		Peak
2	5636.400	8.95	32.78	51.09	45.64	68.20	-22.56		Peak
3	5746.000	9.01	33.25	101.31	96.50	135.00	-38.50		Peak



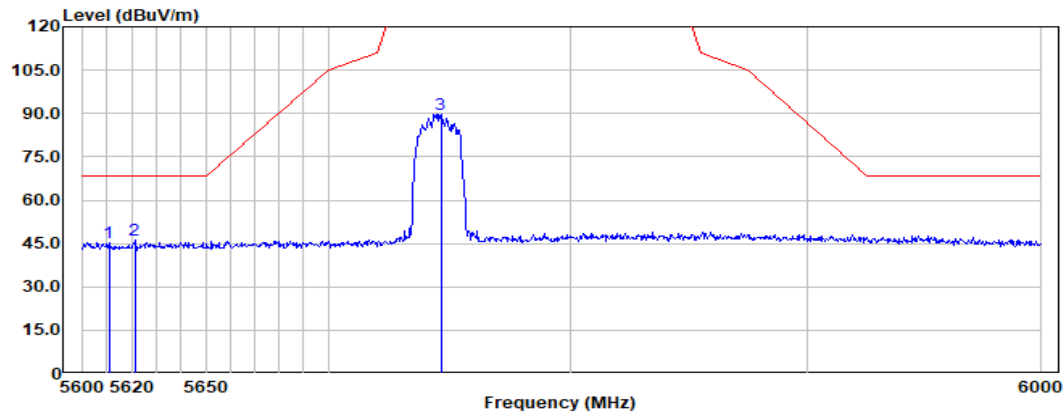
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	5610.800	8.94	32.67	50.72	45.12	68.20	-23.08	Peak		
2	5621.200	8.94	32.72	51.77	46.23	68.20	-21.97	Peak		
3	5746.400	9.01	33.25	94.68	89.87	135.00	-45.13	Peak		



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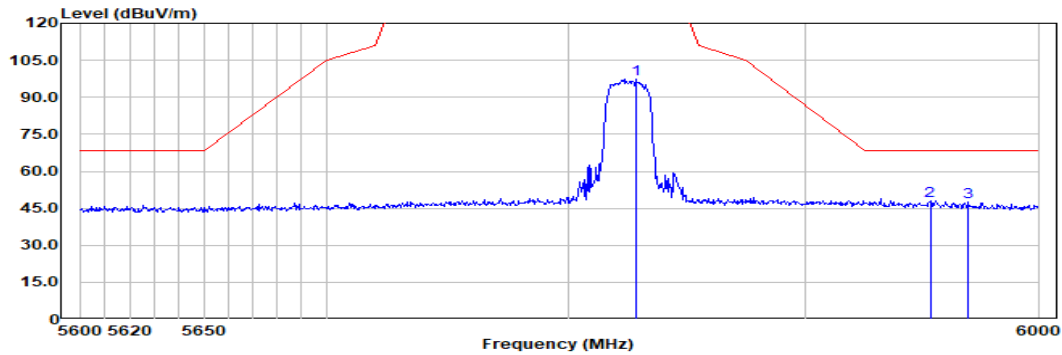
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5828.400	9.05	33.53	101.91	97.43	135.00	-37.57		Peak
2	5953.200	9.12	33.53	52.77	48.13	68.20	-20.07		Peak
3	5969.600	9.12	33.51	52.12	47.43	68.20	-20.77		Peak



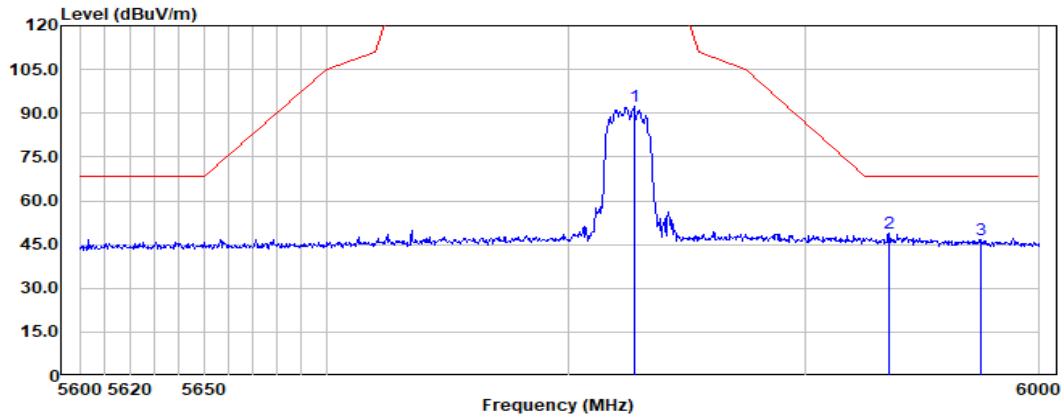
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m					
1	5827.600	9.05	33.53	96.84	92.36	135.00	-42.64		Peak	
2	5935.600	9.11	33.55	53.44	48.84	68.20	-19.36		Peak	
3	5974.800	9.13	33.50	51.37	46.67	68.20	-21.53		Peak	



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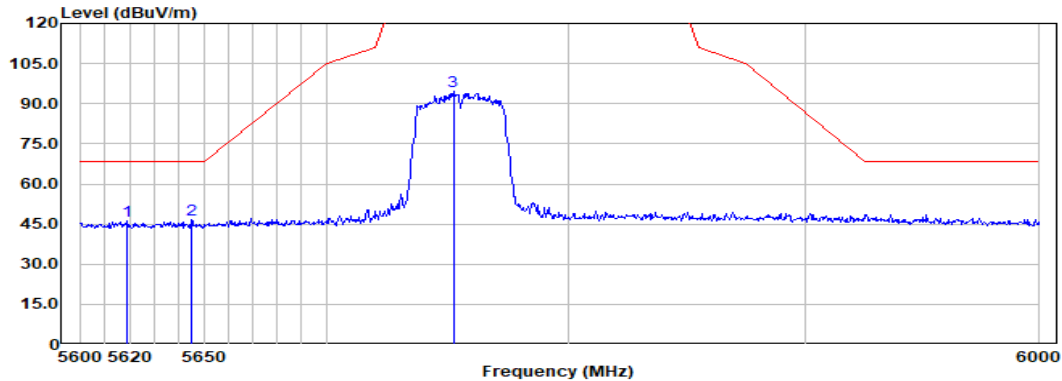
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5619.200	8.94	32.71	51.63	46.08	68.20	-22.12		Peak
2	5645.200	8.95	32.82	51.96	46.56	68.20	-21.64		Peak
3	5752.400	9.01	33.28	99.54	94.77	135.00	-40.23		Peak



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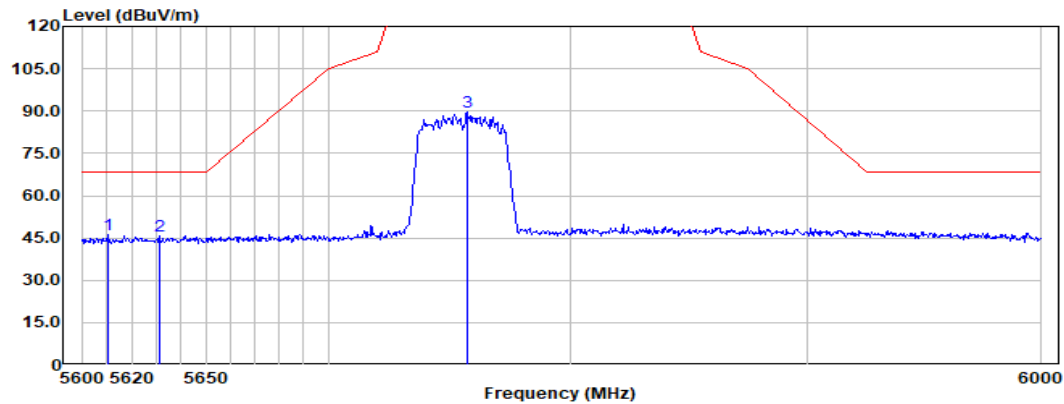
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5610.400	8.94	32.67	51.99	46.39	68.20	-21.81		Peak
2	5631.200	8.95	32.76	51.06	45.58	68.20	-22.62		Peak
3	5757.200	9.01	33.30	94.27	89.53	135.00	-45.47		Peak



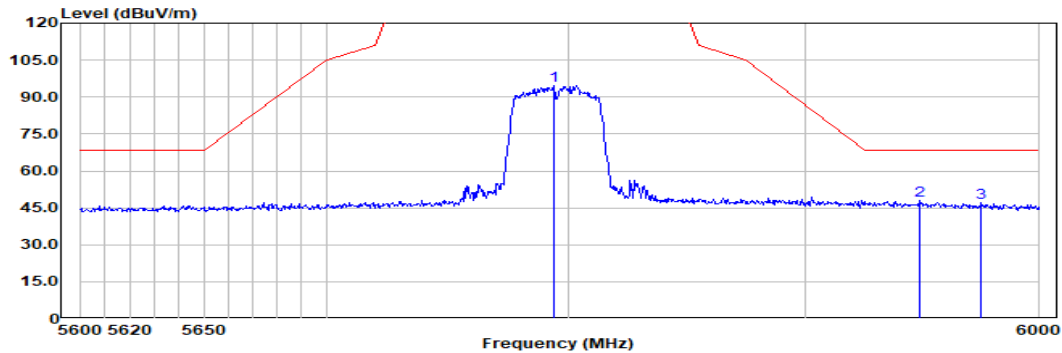
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5794.000	9.03	33.47	99.15	94.63	135.00	-40.37		Peak
2	5948.400	9.11	33.54	52.43	47.80	68.20	-20.40		Peak
3	5975.200	9.13	33.50	51.65	46.95	68.20	-21.25		Peak

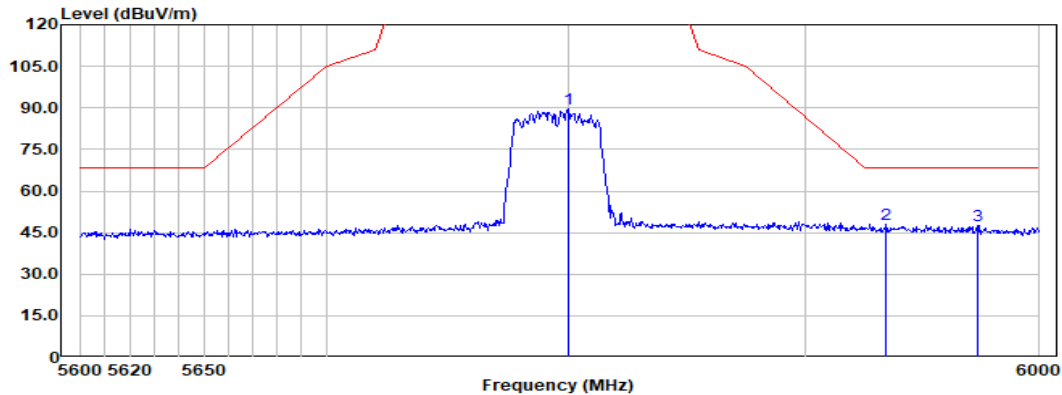


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5800.400	9.04	33.50	94.26	89.79	135.00	-45.21		Peak
2	5934.400	9.11	33.56	52.57	47.98	68.20	-20.22		Peak
3	5973.600	9.13	33.50	52.04	47.34	68.20	-20.86		Peak



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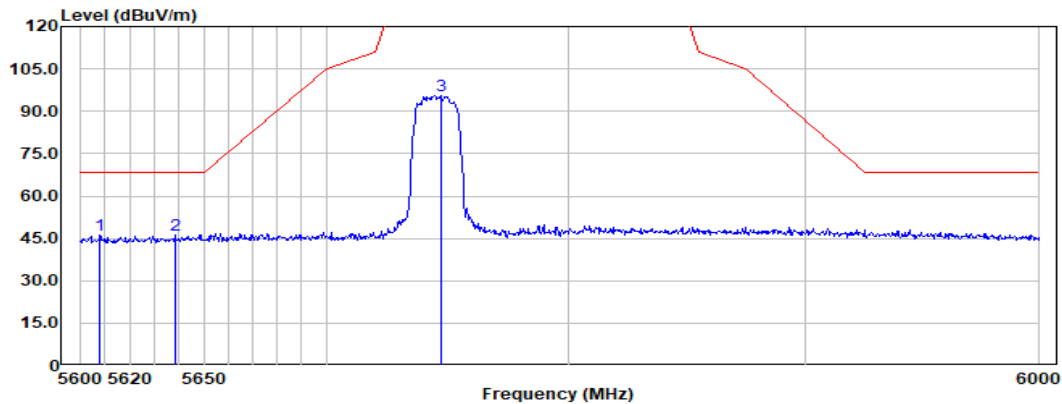
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5608.000	8.94	32.66	51.62	46.01	68.20	-22.19		Peak
2	5638.400	8.95	32.79	51.57	46.13	68.20	-22.07		Peak
3	5747.200	9.01	33.26	100.55	95.75	135.00	-39.25		Peak



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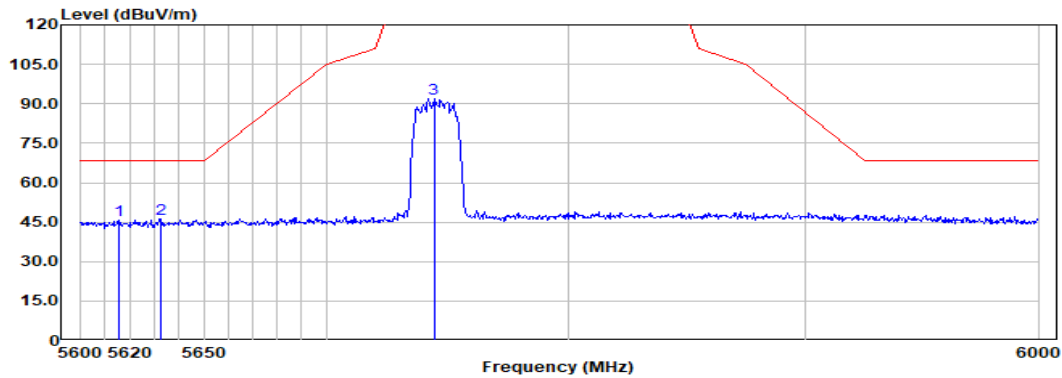
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5615.600	8.94	32.69	51.24	45.67	68.20	-22.53		Peak
2	5632.800	8.95	32.76	51.71	46.23	68.20	-21.97		Peak
3	5744.400	9.01	33.24	96.63	91.81	135.00	-43.19		Peak



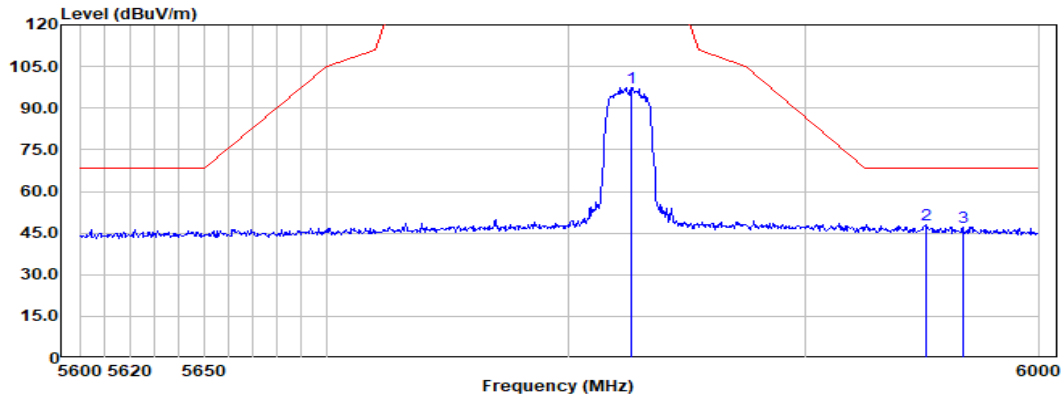
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5826.800	9.05	33.53	102.05	97.57	135.00	-37.43		Peak
2	5951.200	9.11	33.53	52.59	47.94	68.20	-20.26		Peak
3	5967.200	9.12	33.51	51.82	47.13	68.20	-21.07		Peak



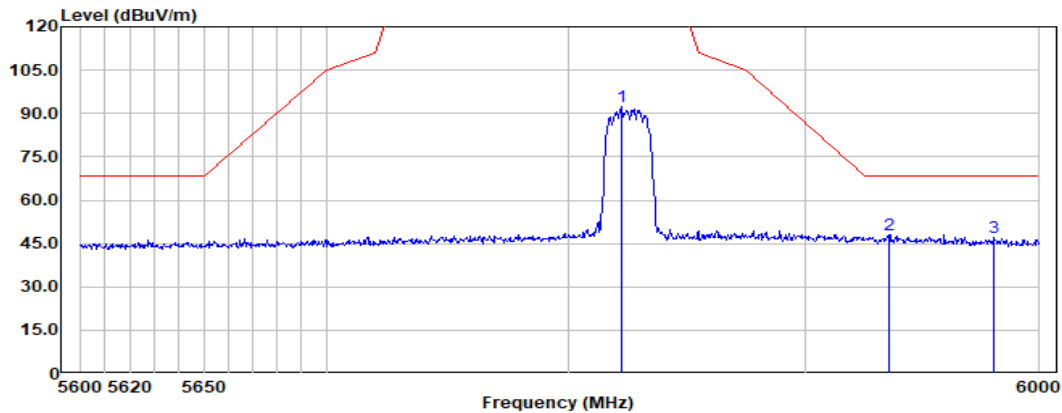
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



	Freq	Cable Loss	Ant Factor	Read Level	Level	FCC 5G	FCC 5G	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5822.400	9.05	33.52	96.70	92.22	135.00	-42.78	Peak	
2	5935.600	9.11	33.55	52.69	48.09	68.20	-20.11	Peak	
3	5980.800	9.13	33.49	51.87	47.15	68.20	-21.05	Peak	



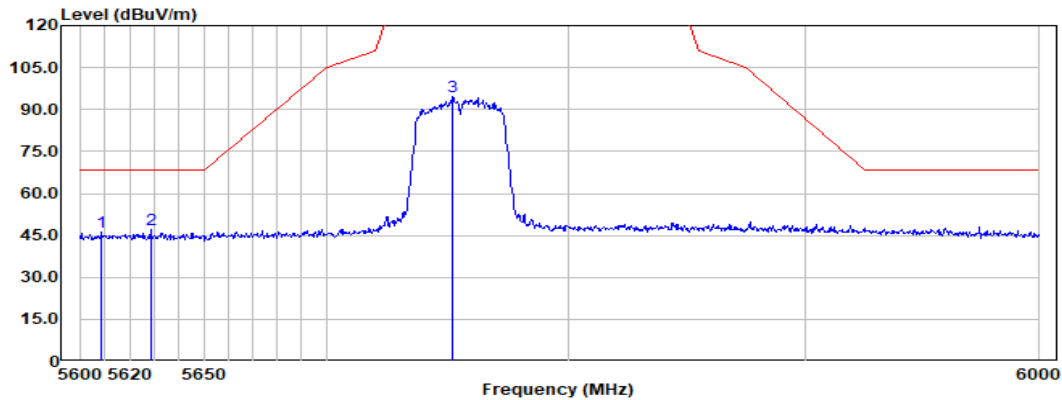
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5608.800	8.94	32.67	51.98	46.38	68.20	-21.82		Peak
2	5628.400	8.95	32.75	52.46	46.97	68.20	-21.23		Peak
3	5752.000	9.01	33.28	99.21	94.44	135.00	-40.56		Peak



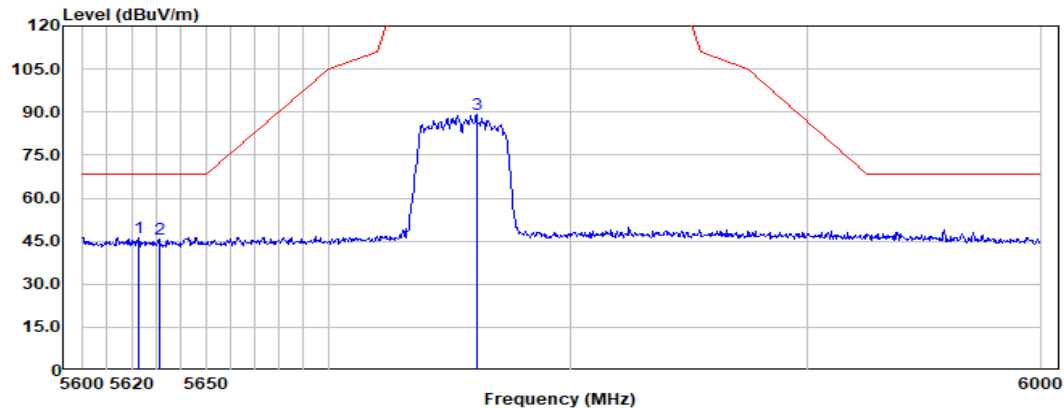
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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	5622.800	8.94	32.72	51.57	46.03	68.20	-22.17		Peak
2	5631.200	8.95	32.76	51.16	45.68	68.20	-22.52		Peak
3	5761.200	9.02	33.32	93.70	88.99	135.00	-46.01		Peak



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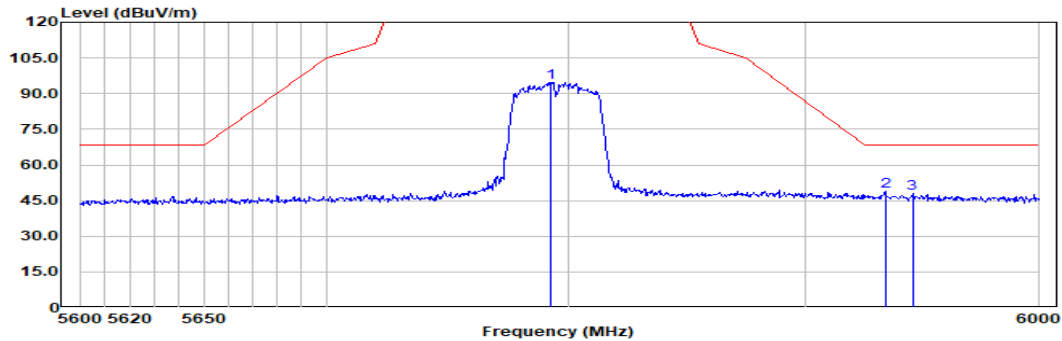
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Report No.: KSCR220600092404

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Test Mode: 02; 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	5792.800	9.03	33.47	99.38	94.86	135.00	-40.14		Peak
2	5934.000	9.11	33.56	53.34	48.75	68.20	-19.45		Peak
3	5945.600	9.11	33.54	52.61	47.98	68.20	-20.22		Peak

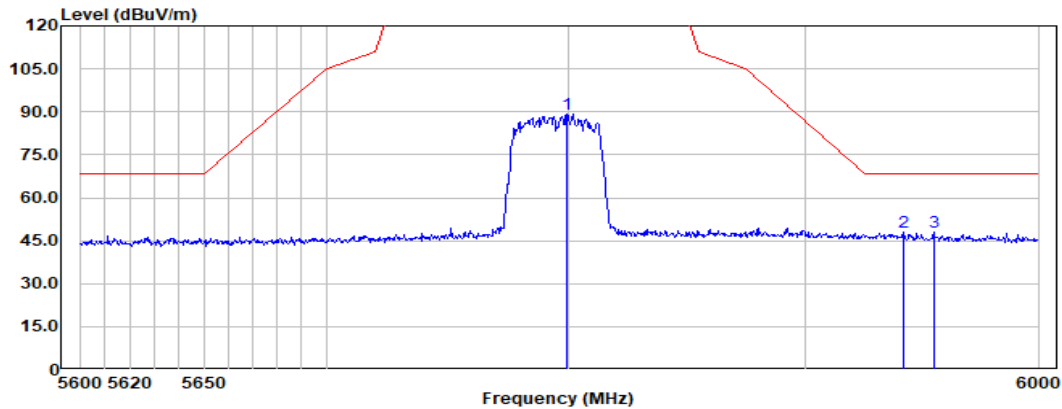


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5799.600	9.04	33.50	93.84	89.37	135.00	-45.63		Peak
2	5941.600	9.11	33.55	52.50	47.89	68.20	-20.31		Peak
3	5954.800	9.12	33.53	52.55	47.90	68.20	-20.30		Peak



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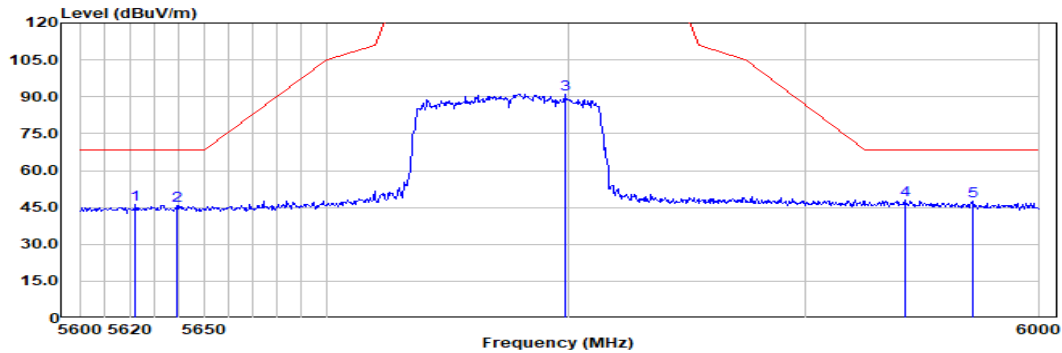
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5622.400	8.94	32.72	51.74	46.20	68.20	-22.00		Peak
2	5639.200	8.95	32.79	51.21	45.77	68.20	-22.43		Peak
3	5798.800	9.03	33.49	95.48	90.99	135.00	-44.01		Peak
4	5942.800	9.11	33.54	52.70	48.08	68.20	-20.12		Peak
5	5971.200	9.12	33.51	52.26	47.56	68.20	-20.64		Peak



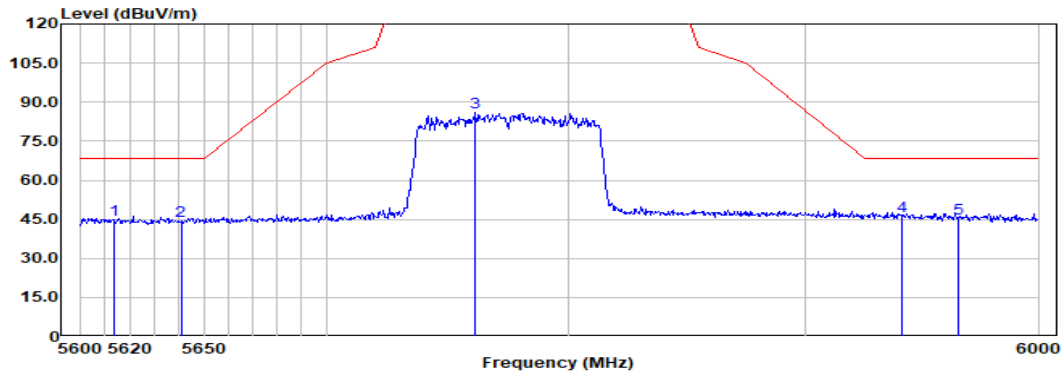
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	LevelFCC	5G	Over FCC	5G	Remark
	MHz	dB	dB/m	dBuV	dBuV/m				
1	5614.000	8.94	32.69	50.23	44.65	68.20	-23.55		Peak
2	5640.800	8.95	32.80	49.88	44.45	68.20	-23.75		Peak
3	5761.600	9.02	33.32	90.88	86.17	135.00	-48.83		Peak
4	5941.200	9.11	33.55	50.71	46.10	68.20	-22.10		Peak
5	5965.600	9.12	33.51	50.11	45.42	68.20	-22.78		Peak



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7.8 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E15.407 (g)
 Test Method: ANSI C63.10 (2013) Section 6.8

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 47.4 % 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-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram**7.8.4 Measurement Procedure and Data**

Please Refer to Appendix D for KSCR220600092404



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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

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: 24.1 °C

Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

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

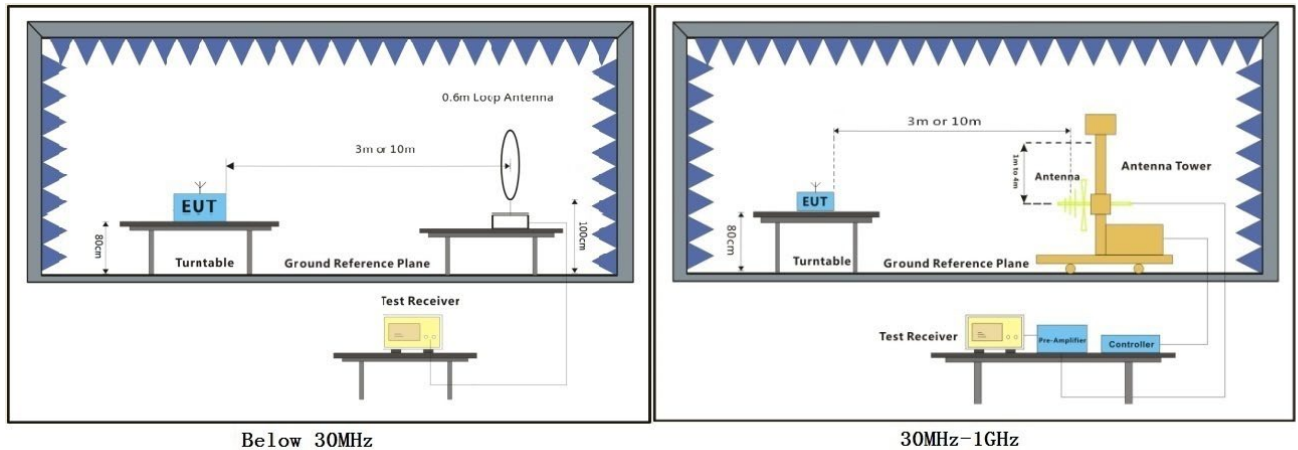


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7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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.

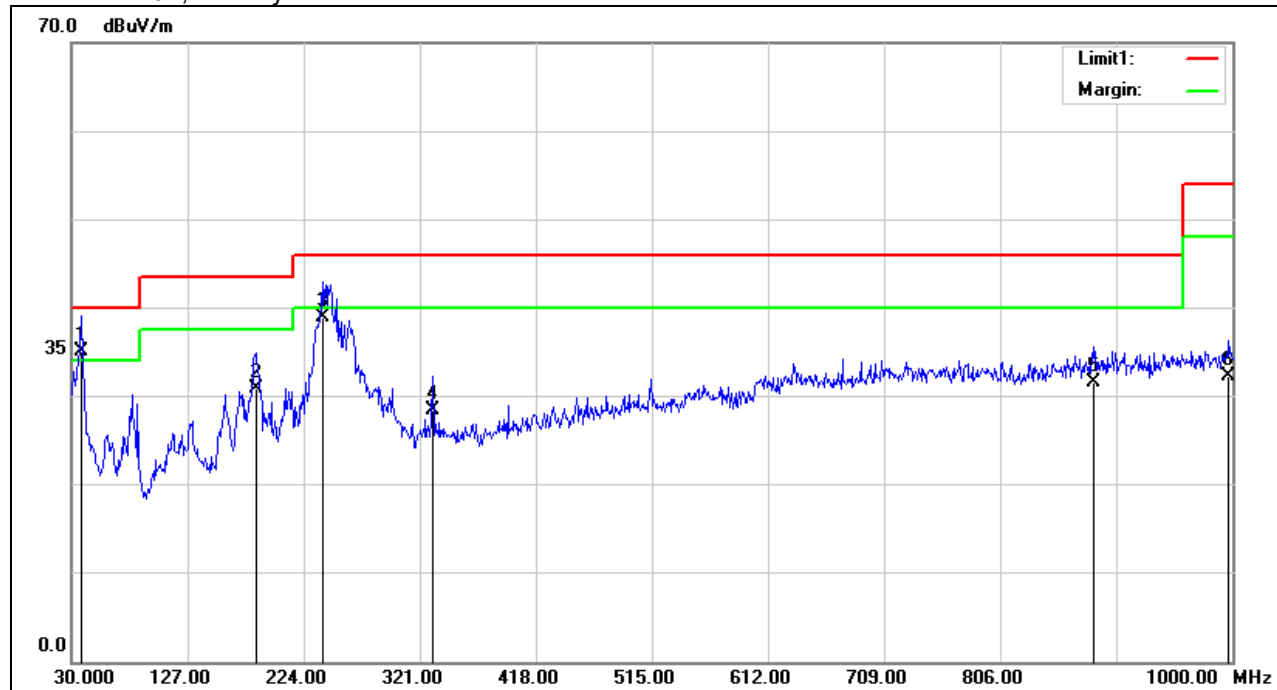


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Test Mode: 01; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	38.7300	12.34	22.80	35.14	40.00	-4.86	100	153	QP
2	184.2300	14.49	16.47	30.96	43.50	-12.54	100	102	QP
3	239.5200	20.32	18.66	38.98	46.00	-7.02	100	143	QP
4	331.6700	7.10	21.26	28.36	46.00	-17.64	100	17	QP
5	883.6000	29.32	2.35	31.67	46.00	-14.33	100	123	QP
6	997.0900	29.94	2.37	32.31	54.00	-21.69	100	31	QP



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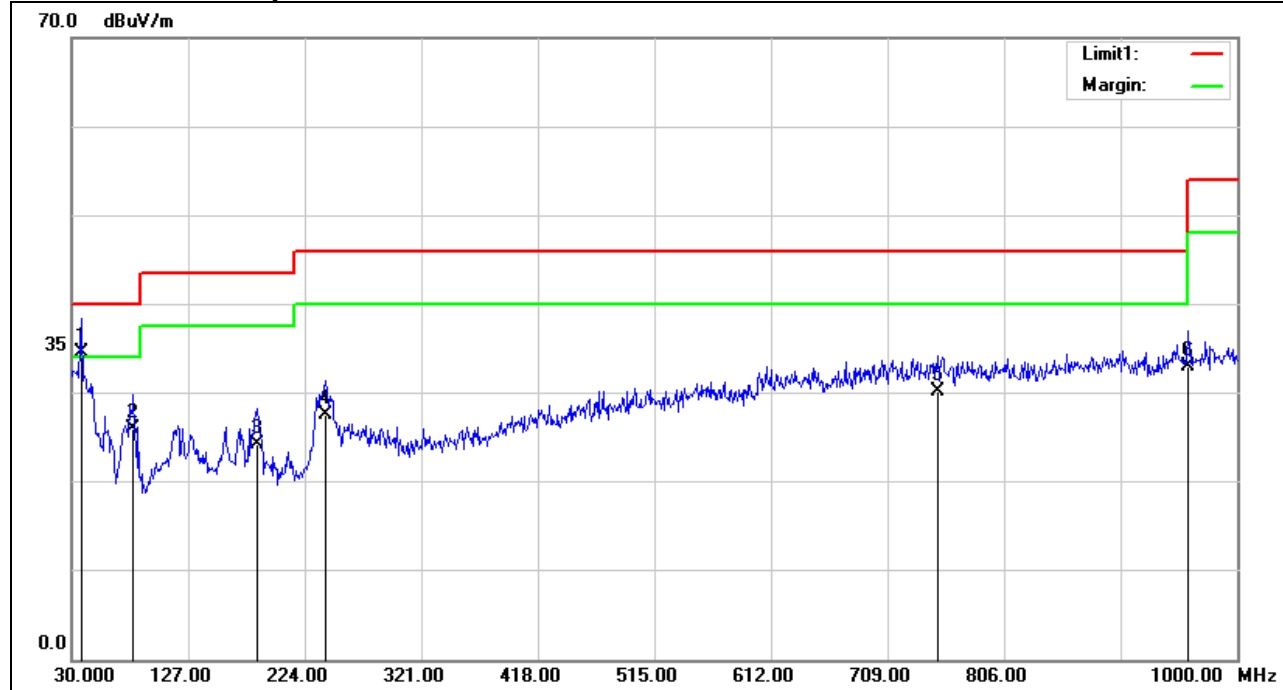
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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	37.7600	11.24	23.24	34.48	40.00	-5.52	100	44	QP
2	81.4100	11.90	14.07	25.97	40.00	-14.03	100	342	QP
3	184.2300	7.81	16.47	24.28	43.50	-19.22	100	37	QP
4	241.4600	8.62	18.91	27.53	46.00	-18.47	100	146	QP
5	750.7100	27.89	2.36	30.25	46.00	-15.75	100	72	QP
6	959.2600	30.40	2.58	32.98	46.00	-13.02	100	275	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2206000924AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2206000924AT

- End of the Report -



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