

RF Test Report

For

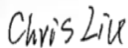
Applicant name: RATOC Systems, Inc.
Address: 8th floor Osaka Metro Minami-Horie Bldg.1-18-4, Minami-horie, Nishi-ku, Osaka, Japan 550-0015
EUT name: Wireless Display Splitter Adapter
Brand name: N/A
Model number: HB937
Series model number: Refer to section 2

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report number: BTF260325R01101
Test standards: Article 2-1, Item 19-3
Test conclusion: Pass

Date of sample receipt: 2026-03-25
Test date: 2026-03-26 to 2026-05-20
Date of issue: 2026-06-17

Prepared by: 
Chris Liu / Project engineer

Approved by: 

Ryan.G / EMC Manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-06-17	Original
<i>Note:</i> <i>Once the revision has been made, then previous versions reports are invalid.</i>		

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

1.3 Laboratory Facility

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

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
- **ISED – CAB identifier.: CN0135**
The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.
- **VCCI - Registration No.: C-20122, G-20157, R-20166**
EMC LAB: Certificated by VCCI, Japan
Registration No.: C-20122, G-20157, R-20166
Date of Registration: June 20, 2025
This Certificate is valid until June 19, 2028

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2 Product Information

2.1 Application Information

Company name:	RATOC Systems, Inc.
Address:	8th floor Osaka Metro Minami-Horie Bldg.1-18-4, Minami-horie, Nishi-ku, Osaka, Japan 550-0015

2.2 Manufacturer Information

Company name:	RATOC Systems, Inc.
Address:	8th floor Osaka Metro Minami-Horie Bldg.1-18-4, Minami-horie, Nishi-ku, Osaka, Japan 550-0015

2.3 Factory Information

Company name:	Dongguan World Pass Industrial Co., LTD
Address:	29, Lianhuan Road, Dalingshan Town, Dongguan City, Guangdong Province

2.4 General Description of Equipment under Test (EUT)

EUT name:	Wireless Display Splitter Adapter
Under test model name:	HB937
Series model name:	RS-WLSP1-TX
Description of model name differentiation:	Only the model name is different, everything else is the same.
Ratings:	Input: 5V $\overline{\text{---}}$ 1A

2.5 Technical Information

Operation Frequency:	W52: 802.11a/n(HT20): 5180MHz to 5240MHz;
Channel numbers:	W52: 802.11a/n(HT20): 4;
Channel separation:	802.11a/n(HT20): 20MHz;
Modulation technology:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
The Max RF conducted output power (mW/MHz)	1.568mW/MHz
Antenna type:	Internal Antenna
Antenna gain:	2.22dBi

Channel List:

U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	/	/	/	/
40	5200	/	/	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/

3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

Article 2-1, Item 19-3 : 5G WIFI

3.2 Uncertainty of Test

Measurement	Value
Radio Frequency	$\pm 1.2 \times 10^{-9}$
Occupied Channel Bandwidth	$\pm 173.1\text{Hz}$
RF output power, conducted	$\pm 0.66\text{ dB}$
Unwanted Emissions, conducted	$\pm 2.32\text{ dB}$
RF output power, conducted	$\pm 0.66\text{ dB}$
Time	$\pm 5\%$

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Tolerance of Frequency	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Occupied Bandwidth (99%)	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Antenna Power and Tolerance	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
E.I.R.P	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Out of Band Emission	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Adjacent Channel Emitted Power	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Spurious Emission Intensity	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Secondary Radiated Emissions	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Carrier Sensing 1	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Interference Prevention Function	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass
Transmission Burst Length	Article 2-1, Item 19-3 MIC Notice No.88Appendix No.45	Article 2-1, Item 19-3	Pass

Remark:

1. *Pass: Meet the requirements.*

2. *N/A: not applicable.*

3.4 Additions to, deviations, or exclusions from the method

None

4 Test Configuration

4.1 Test Equipment List

Occupied Bandwidth (99%) Antenna Power and Tolerance Out of Band Emission Adjacent Channel Emitted Power Spurious Emission Intensity Carrier Sensing 1 Tolerance of Frequency E.I.R.P Secondary Radiated Emissions Interference Prevention Function Transmission Burst Length								
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Cal. By	Remark	Use
Test Software	TST Pass	/	Version: 2.0	/	/			
Cell Site Test Set	HP	8921A	US35010158	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3	☒
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3	☒
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3	☒
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3	☒
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	161997	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3	☒
Programmable Constant Temperature And Humidity Test Chamber	ZZCKO NG	ZZ-K02A	20210928007	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3	☒
DC Power Supply	Tongmen	etm-6050c	20211026123	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3	☒
RF Control Unit	Techy	TR1029-1	/	2025-10-17	2026-10-16			
RF Sensor Unit	Techy	TR1029-2	/	2025-10-17	2026-10-16			

RF shielding box	Yinuoxin Electronics	50*50*50 cm	/	2026-05-26	2027-05-25			
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Remark:

1. Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as *NICT*) or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
2. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No.51 of 1992)
3. Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
4. Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (2) to (4).

From JRL Article 24-2, paragraph 4, Item 2

All calibration information is from Guangzhou LiSai Metrology & Test Co., Ltd.

4.2 Test Auxiliary Equipment

The EUT has been tested as an independent unit.

4.3 Environment Condition

ENV	Temperature (°C)	Voltage (VDC)
NTNV	15-35	5.0
NTHV	15-35	5.5
NTLV	15-35	4.5

Voltage fluctuation test:

The RF unit is supplied DC 3.3V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage DC 5.0V fluctuates $\pm 10\%$, so all measurement has been conducted by only rated voltage.

DC Input	RF_IC Input	Rate of fluctuation(%)
5.0V	3.3V	0.0
5.5V	3.3V	0.0
4.5V	3.3V	0.0

4.4 Test Modes

No.	Test Modes
TM1	802.11a mode
TM2	802.11n(HT20) mode
TM3	Receiving mode (20MHz)
TM4	Normal mode

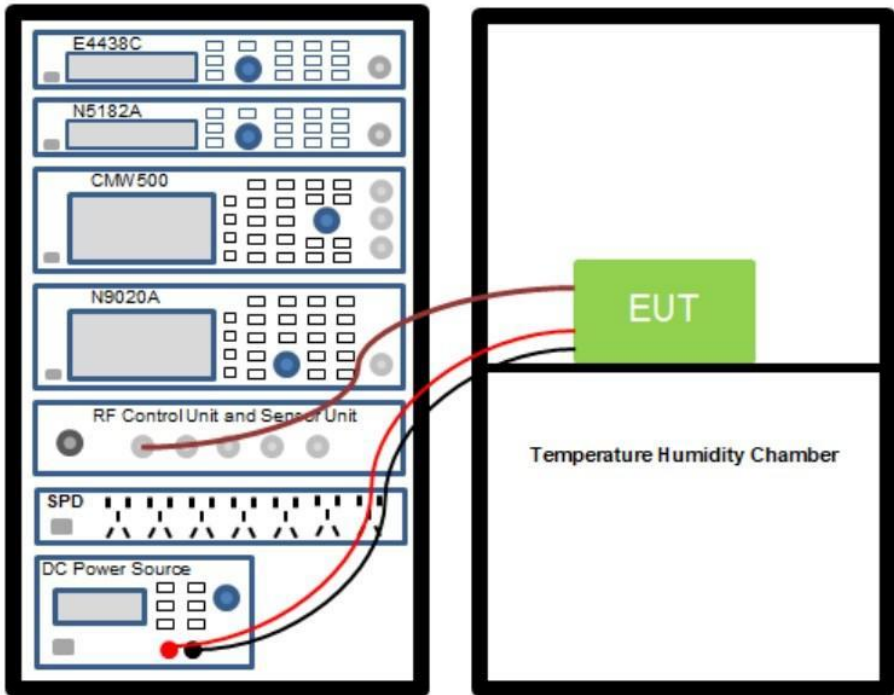
4.5 Test Channel of EUT

Operation Band: 5150~5250MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	5180	5200	5240

5 Radio Spectrum Matter Test Results (RF)

5.1 Tolerance of Frequency

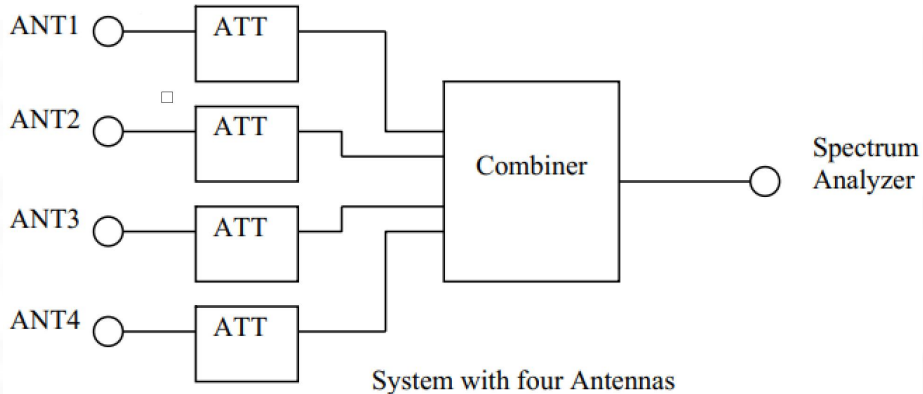
Test Requirement:	Article 2-1, Item 19-3		
Test Method:	Center frequency:	Test frequency	
	Span:	1 MHz	
	RBW:	10 kHz	
	VBW:	10 kHz	
	Sweep data points:	1001 or greater	
	Sweep time:	Auto	
	Detector mode:	Positive peak	
	Indication mode:	Max hold	
Test Limit:	± 20ppm		
Procedure:	(1) Find the peak carrier signal and measure its frequency (2) For multiple antenna systems each antenna shall be measured (3) For an EUT with multiple antennas it is permissible to test a single antenna only, provided all the antenna measurement values are expected to be same for either of the following reasons: a) The frequency of all antenna transmissions are phase-synchronized to a common (fundamental) oscillator b) The antenna transmissions share a common clock signal		
Test Setup:			
Operating Environment:			
Temperature:	22.6 °C		
Humidity:	45.2 %		

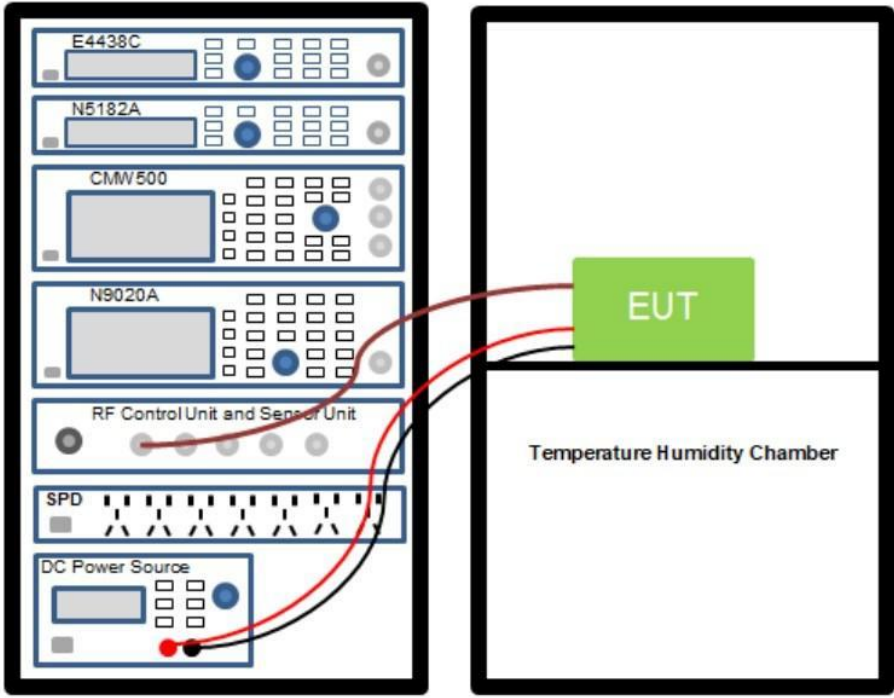
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.1.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.2 Occupied Bandwidth (99%)

Test Requirement:	Article 2-1, Item 19-3	
Test Method:	[Occupied Bandwidth (99%)]	
	Center Frequency:	Test frequency
	Span:	2 – 3.5 times the technical standard
	RBW:	Within 3% of the technical standard
	VBW:	Same as RBW
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	BW setting:	99%
Test Limit:	DSSS: 18MHz OFDM:20/40/80/160MHz	
Procedure:	(1) Measure the signal bandwidth using a spectrum analyzer (2) For multiple antenna systems: a) Each antenna shall be individually measured b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:  System with four Antennas	

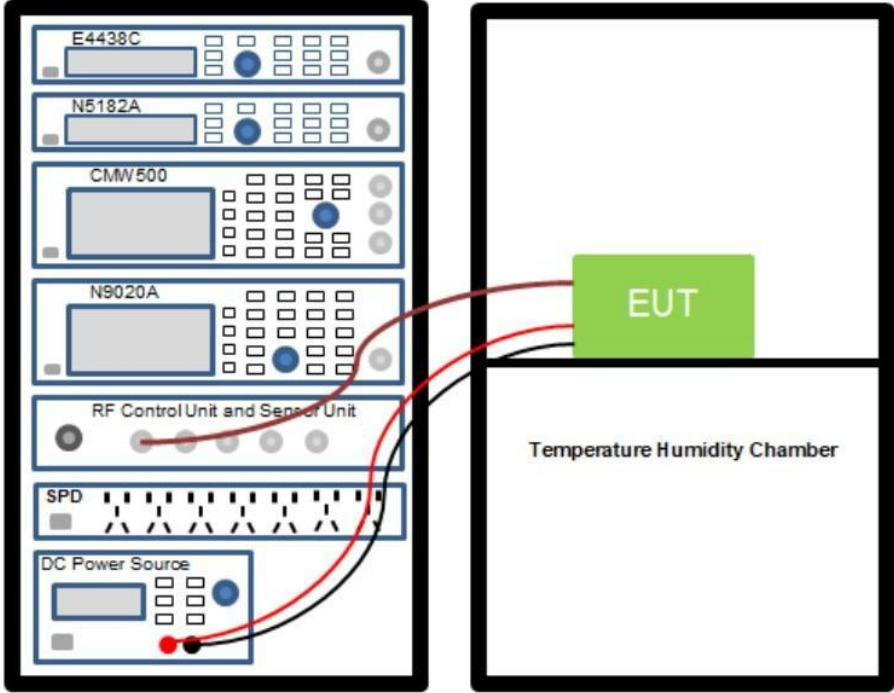
Test Setup:	
Operating Environment:	
Temperature:	24.7 °C
Humidity:	51.6 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.2.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.3 Antenna Power and Tolerance

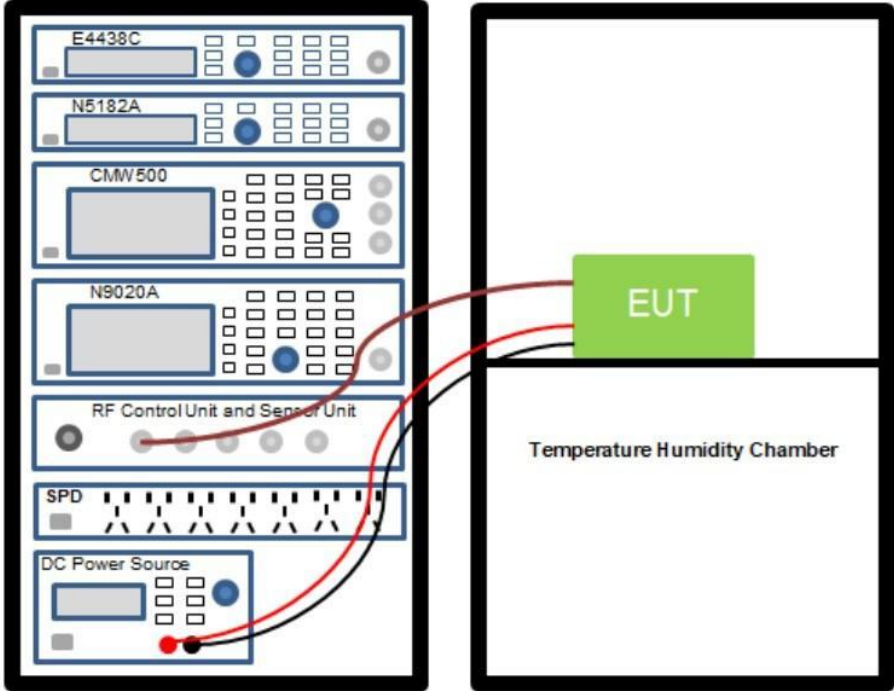
Test Requirement:	Article 2-1, Item 19-3	
Test Method:	[Setting 1] – Search for peak power frequency	
	Center Frequency:	Test frequency
	Span:	Approximately twice the occupied bandwidth
	RBW:	1MHz
	VBW:	Approximately three times the RBW
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	[Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM	
	Frequency:	Frequency of peak power found using [Setting 1]
	Span:	0 Hz
	RBW:	3 MHz (FHSS in 7.4.1.1) 1MHz (DSSS, OFDM, FHSS in 7.4.1.2)
	Detector mode:	Sample
	Sweep:	Minimum time required to make an accurate measurement.
		For burst type (intermittent) transmission sweep time shall be greater than one burst interval
	Sweep data points:	1001 or greater
	[Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM	
	Frequency:	Frequency of peak power found using [Setting 1]
	Span:	0 Hz
	RBW:	Bandwidth sufficient to cover that occupied by the carrier
	VBW:	Bandwidth sufficient to cover that occupied by the carrier
	Detector mode:	Sample
	Sweep:	Minimum time required to make an accurate measurement.
		For burst type (intermittent) transmission sweep time shall be greater than one burst interval
	Sweep data points:	1001 or greater
Test Limit:	10 mW/MHz or less for DSSS and OFDM 20MHz Bandwidth; 5mW/MHz or less for OFDM 40MHz Bandwidth; 2.5mW/MHz or less for OFDM 80MHz Bandwidth; 1.25mW/MHz or less for OFDM 80+80MHz or 160MHz Bandwidth; Antenna power tolerance: -80% ~ +20% for 5150~5250MHz and 5250~5350MHz; -50% ~ +50% for 5470~5725MHz;	

Procedure:	(1) After configuring the spectrum analyzer to [Setting 1], find the frequency of maximum transmitted power (2) After configuring the spectrum analyzer to [Setting 2], measure the Average Burst Power of the frequency found in (1) Antenna Power (W/MHz) = Average Burst Power (3) If the EUT has an 80+80MHz bandwidth system then antenna power shall be measured separately, on each channel, but with both 80MHz transmitters simultaneously enabled.
Test Setup:	
Operating Environment:	
Temperature:	24.2 °C
Humidity:	51.5 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.3.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.4 E.I.R.P

Test Requirement:	Article 2-1, Item 19-3
Test Method:	EIRP = RF conducted power +Antenna Gain
Test Limit:	5150~5250MHz: 10mW/MHz for DSS and OFDM 20MHz; 5mW/MHz for OFDM 40MHz; 2.5mW/MHz for OFDM 80MHz; 1.25mW/MHz for OFDM 80+80MHz and 160MHz; 5250~5350MHz with TPC: 10mW/MHz for DSS and OFDM 20MHz; 5mW/MHz for OFDM 40MHz; 2.5mW/MHz for OFDM 80MHz; 1.25mW/MHz for OFDM 80+80MHz and 160MHz; 5250~5350MHz without TPC: 5mW/MHz for DSS and OFDM 20MHz; 2.5mW/MHz for OFDM 40MHz; 1.25mW/MHz for OFDM 80MHz; 0.625mW/MHz for OFDM 80+80MHz and 160MHz; 5470~5725MHz with TPC: 50mW/MHz for DSS and OFDM 20MHz; 25mW/MHz for OFDM 40MHz; 12.5mW/MHz for OFDM 80MHz; 1.25mW/MHz for OFDM 80+80MHz; 6.25mW/MHz for and 160MHz; 5250~5350MHz without TPC: 25mW/MHz for DSS and OFDM 20MHz; 12.5mW/MHz for OFDM 40MHz; 6.25mW/MHz for OFDM 80MHz; 0.625mW/MHz for OFDM 80+80MHz; 3.125mW/MHz for and 160MHz;
Procedure:	/
Test Setup:	
Operating Environment:	
Temperature:	23.4 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.4.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.5 Out of Band Emission

Test Requirement:	Article 2-1, Item 19-3																																														
Test Method:	[Setting 1]																																														
	Frequency range:	Test frequency rage as required																																													
	RBW:	1 MHz																																													
	VBW:	1 MHz																																													
	Sweep time:	Minimum time required to make an accurate measurement																																													
	Sweep Data Points:	1001 or greater																																													
	Detector mode:	Positive peak																																													
	Indication mode:	Max hold (see Note 1)																																													
	Note 1:	Sweep shall be repeated until the max hold waveform is stable.																																													
	[Setting 2]																																														
	Center frequency:	Frequency of spurious emission found using [Setting 1]																																													
	Span:	0 Hz																																													
	RBW:	1 MHz																																													
	VBW:	1 MHz																																													
	Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval																																													
	Sweep Data Points:	1001 or greater																																													
	Detector mode:	Sample																																													
Test Limit:	<table><tr><th colspan="4">W52</th></tr><tr><th colspan="2">20MHz system</th><th>40MHz system</th><th>80MHz system</th></tr><tr><th>OBW : 18MHz or less</th><th>OBW : 18 - 20 MHz</th><td></td><td></td></tr><tr><td>5.142 MHz or less : 2.5 μW/MHz</td><td>5.142 MHz or less : 2.5 μW/MHz</td><td>5.141.6 MHz or less : 2.5 μW/MHz</td><td>5.123.2 MHz or less : 2.5 μW/MHz</td></tr><tr><td>5.142 - 5.150 MHz : 15 μW/MHz</td><td>5.142 - 5.150 MHz : 15 μW/MHz</td><td>5.141.6 - 5.150 MHz : 15 μW/MHz</td><td>5.123.2 - 5.150 MHz : 15 μW/MHz</td></tr><tr><td></td><td>5.250 - 5.250.2 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td></td><td></td></tr><tr><td>5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.250.2 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td></tr><tr><td>5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.251 - 5.270 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td></tr><tr><td>5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz</td><td>5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz</td><td>5.270 - 5.278.4 MHz : $10^{-1} \cdot (f - 5.270) / 0.75$ mW/MHz</td><td>5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz</td></tr><tr><td>5.266.7 MHz or more : 2.5 μW/MHz</td><td>5.266.7 MHz or more : 2.5 μW/MHz</td><td>5.278.4 MHz or more : 2.5 μW/MHz</td><td>5.266.7 MHz or more : 2.5 μW/MHz</td></tr><tr><td>f = MHz, Difference from 5240 (MHz)</td><td>f = MHz, Difference from 5240 (MHz)</td><td>f = MHz, Difference from 5230 (MHz)</td><td>f = MHz, Difference from 5210 (MHz)</td></tr></table>			W52				20MHz system		40MHz system	80MHz system	OBW : 18MHz or less	OBW : 18 - 20 MHz			5.142 MHz or less : 2.5 μ W/MHz	5.142 MHz or less : 2.5 μ W/MHz	5.141.6 MHz or less : 2.5 μ W/MHz	5.123.2 MHz or less : 2.5 μ W/MHz	5.142 - 5.150 MHz : 15 μ W/MHz	5.142 - 5.150 MHz : 15 μ W/MHz	5.141.6 - 5.150 MHz : 15 μ W/MHz	5.123.2 - 5.150 MHz : 15 μ W/MHz		5.250 - 5.250.2 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz			5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.250.2 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.251 - 5.270 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz	5.270 - 5.278.4 MHz : $10^{-1} \cdot (f - 5.270) / 0.75$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz	5.266.7 MHz or more : 2.5 μ W/MHz	5.266.7 MHz or more : 2.5 μ W/MHz	5.278.4 MHz or more : 2.5 μ W/MHz	5.266.7 MHz or more : 2.5 μ W/MHz	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)
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5.240 - 5.249 MHz : $10^{-1} \cdot (f - 5.240) / 0.75$ mW/MHz	5.240 - 5.249 MHz : $10^{-1} \cdot (f - 5.240) / 0.75$ mW/MHz	5.230 - 5.249 MHz : $10^{-1} \cdot (f - 5.230) / 0.75$ mW/MHz	5.210 - 5.249 MHz : $10^{-1} \cdot (f - 5.210) / 0.75$ mW/MHz																																												
5.249 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.249 - 5.249.8 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.249 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.249 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz																																												
5.249.8 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.249.8 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.350 - 5.358.4 MHz : 15 μ W/MHz	5.350 - 5.376.8 MHz : 15 μ W/MHz																																												
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<table><tr><th colspan="4">W56</th></tr><tr><th colspan="2">20MHz system</th><th>40MHz system</th><th>80MHz system</th></tr><tr><th>DSSS, etc.</th><th>OFDM</th><td></td><td></td></tr><tr><td>5.470 MHz or less : 12.5 μW/MHz</td><td>5.460 MHz or less : 2.5 μW/MHz</td><td>5.460 MHz or less : 12.5 μW/MHz</td><td>5.460 MHz or less : 12.5 μW/MHz</td></tr><tr><td></td><td>5.460 - 5.470 MHz : 12.5 μW/MHz</td><td>5.460 - 5.470 MHz : 50 μW/MHz</td><td>5.460 - 5.469.5 MHz : 50 μW/MHz</td></tr><tr><td></td><td>5.745 - 5.765 MHz : 12.5 μW/MHz</td><td></td><td>5.469.5 - 5.470 MHz : 51.2 μW/MHz</td></tr><tr><td>5.730 MHz or more : 12.5 μW/MHz</td><td>Over 5.765 MHz : 2.5 μW/MHz</td><td>5.770 MHz or more : 12.5 μW/MHz</td><td>5.770 MHz or more : 12.5 μW/MHz</td></tr></table>			W56				20MHz system		40MHz system	80MHz system	DSSS, etc.	OFDM			5.470 MHz or less : 12.5 μ W/MHz	5.460 MHz or less : 2.5 μ W/MHz	5.460 MHz or less : 12.5 μ W/MHz	5.460 MHz or less : 12.5 μ W/MHz		5.460 - 5.470 MHz : 12.5 μ W/MHz	5.460 - 5.470 MHz : 50 μ W/MHz	5.460 - 5.469.5 MHz : 50 μ W/MHz		5.745 - 5.765 MHz : 12.5 μ W/MHz		5.469.5 - 5.470 MHz : 51.2 μ W/MHz	5.730 MHz or more : 12.5 μ W/MHz	Over 5.765 MHz : 2.5 μ W/MHz	5.770 MHz or more : 12.5 μ W/MHz	5.770 MHz or more : 12.5 μ W/MHz																	
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	<table><tr><th>WS2 + WS3</th><th>WS6</th></tr><tr><td colspan="2">160MHz system</td></tr><tr><td>5,099.6 MHz or less : 2.5 μW/MHz</td><td>5,419.6 MHz or less : 12.5 uW/MHz</td></tr><tr><td>5,099.6 - 5,150 MHz : 15 μW/MHz</td><td>5,419.6 - 5,470 MHz : 50 uW/MHz</td></tr><tr><td>5,350 - 5,400.4 MHz : 15 μW/MHz</td><td>5,725 MHz or more : 12.5 uW/MHz</td></tr><tr><td>5,400.4 MHz or more : 2.5 μW/MHz</td><td></td></tr></table>	WS2 + WS3	WS6	160MHz system		5,099.6 MHz or less : 2.5 μW/MHz	5,419.6 MHz or less : 12.5 uW/MHz	5,099.6 - 5,150 MHz : 15 μW/MHz	5,419.6 - 5,470 MHz : 50 uW/MHz	5,350 - 5,400.4 MHz : 15 μW/MHz	5,725 MHz or more : 12.5 uW/MHz	5,400.4 MHz or more : 2.5 μW/MHz		* A related value is defined by the E.I.R.P. * Measurement range: 30MHz to 26GHz																										
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<table><tr><th>5.21GHz & (5.53GHz, 5.61GHz or 5.69GHz)</th><th>5.29GHz & (5.53GHz, 5.61GHz or 5.69GHz)</th><th>5.63GHz & 5.69GHz</th></tr><tr><td colspan="3">80MHz + 80MHz system (Not adjacent radio)</td></tr><tr><td>5,134.8 MHz or less : 2.5 μW/MHz</td><td>5,214.8 MHz or less : 2.5 μW/MHz</td><td>5,419.6 MHz or less : 12.5 uW/MHz</td></tr><tr><td>5,134.8 - 5,150 MHz : 162.5 μW/MHz</td><td>5,214.8 - 5,249 MHz : $10^{-(9/10)(f-431)+1\log(1/10)}\mu\text{W/MHz}$</td><td>5,419.6 - 5,470 MHz : 50 uW/MHz</td></tr><tr><td>5,250 - 5,251 MHz : $10^{-(f-40)+1\log(1/10)}\mu\text{W/MHz}$</td><td>5,249 - 5,250 MHz : $10^{-(f-40)+1\log(1/10)}\mu\text{W/MHz}$</td><td></td></tr><tr><td>5,251 - 5,285.2 MHz : $10^{-(9/10)(f-431)+1\log(1/10)}\mu\text{W/MHz}$</td><td>5,350 - 5,365.2 MHz : 15 μW/MHz</td><td>5,770 MHz or more : 15 uW/MHz</td></tr><tr><td>5,285.2 - 5,370 MHz : 2.5 μW/MHz</td><td>5,365.2 - 5,410 MHz : 2.5 μW/MHz</td><td></td></tr><tr><td>5,370 - 5,454.8 MHz : 2.5 μW/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 12.5 μW/MHz)</td><td>5,410 - 5,454.8 MHz : 2.5 μW/MHz</td><td></td></tr><tr><td>5,454.8 - 5,470 MHz : 15 μW/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 50 μW/MHz)</td><td>5,454.8 - 5,470 MHz : 15 μW/MHz</td><td></td></tr><tr><td>5,730 MHz or more : 15 μW/MHz</td><td>5,730 MHz or more : 15 μW/MHz</td><td></td></tr><tr><td>(*When used 5650MHz)</td><td>(*When used 5650MHz)</td><td></td></tr><tr><td>5,770 MHz or more : 15 μW/MHz</td><td>5,770 MHz or more : 15 μW/MHz</td><td></td></tr><tr><td>f = MHz, Difference from 5210 (MHz)</td><td>f = MHz, Difference from 5200 (MHz)</td><td></td></tr></table>	5.21GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.29GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.63GHz & 5.69GHz	80MHz + 80MHz system (Not adjacent radio)			5,134.8 MHz or less : 2.5 μW/MHz	5,214.8 MHz or less : 2.5 μW/MHz	5,419.6 MHz or less : 12.5 uW/MHz	5,134.8 - 5,150 MHz : 162.5 μW/MHz	5,214.8 - 5,249 MHz : $10^{-(9/10)(f-431)+1\log(1/10)}\mu\text{W/MHz}$	5,419.6 - 5,470 MHz : 50 uW/MHz	5,250 - 5,251 MHz : $10^{-(f-40)+1\log(1/10)}\mu\text{W/MHz}$	5,249 - 5,250 MHz : $10^{-(f-40)+1\log(1/10)}\mu\text{W/MHz}$		5,251 - 5,285.2 MHz : $10^{-(9/10)(f-431)+1\log(1/10)}\mu\text{W/MHz}$	5,350 - 5,365.2 MHz : 15 μW/MHz	5,770 MHz or more : 15 uW/MHz	5,285.2 - 5,370 MHz : 2.5 μW/MHz	5,365.2 - 5,410 MHz : 2.5 μW/MHz		5,370 - 5,454.8 MHz : 2.5 μW/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 12.5 μW/MHz)	5,410 - 5,454.8 MHz : 2.5 μW/MHz		5,454.8 - 5,470 MHz : 15 μW/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 50 μW/MHz)	5,454.8 - 5,470 MHz : 15 μW/MHz		5,730 MHz or more : 15 μW/MHz	5,730 MHz or more : 15 μW/MHz		(*When used 5650MHz)	(*When used 5650MHz)		5,770 MHz or more : 15 μW/MHz	5,770 MHz or more : 15 μW/MHz		f = MHz, Difference from 5210 (MHz)	f = MHz, Difference from 5200 (MHz)		
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5,251 - 5,285.2 MHz : $10^{-(9/10)(f-431)+1\log(1/10)}\mu\text{W/MHz}$	5,350 - 5,365.2 MHz : 15 μW/MHz	5,770 MHz or more : 15 uW/MHz																																						
5,285.2 - 5,370 MHz : 2.5 μW/MHz	5,365.2 - 5,410 MHz : 2.5 μW/MHz																																							
5,370 - 5,454.8 MHz : 2.5 μW/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 12.5 μW/MHz)	5,410 - 5,454.8 MHz : 2.5 μW/MHz																																							
5,454.8 - 5,470 MHz : 15 μW/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 50 μW/MHz)	5,454.8 - 5,470 MHz : 15 μW/MHz																																							
5,730 MHz or more : 15 μW/MHz	5,730 MHz or more : 15 μW/MHz																																							
(*When used 5650MHz)	(*When used 5650MHz)																																							
5,770 MHz or more : 15 μW/MHz	5,770 MHz or more : 15 μW/MHz																																							
f = MHz, Difference from 5210 (MHz)	f = MHz, Difference from 5200 (MHz)																																							

Procedure:

(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)

(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.

(3) Calculate the spurious emission value (Calculated Value) using following the formula below:
Calculated Value = (Measured Value using (3) + 15.2dB)
Note: 15.2dB adjustment is derived from the Conversion Factor of RBW
Conversion Factor of RBW = 10 x Log (Reference Bandwidth / RBW of measurement) = 15.2 [dB] Where: Reference Bandwidth = 1 MHz
RBW of measurement = 30 kHz

(4) If the calculated value using (4) is over the Limit (section 6.7), go to (6)

(6) Configure the spectrum analyzer to [Setting 3] then make the following changes:
Frequency: Frequency of spurious emission
Span: 1 MHz

(6) After sweep, send the span data set to the PC

(7) Convert measured data from dBm to Watts

(8) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

$$P_s = \left(\sum_{i=1}^n E_i\right) \times \frac{S_w}{RBW \times k \times n}$$

Ps: Sum (Watts)

Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)

n: Number of measurement points in the Span

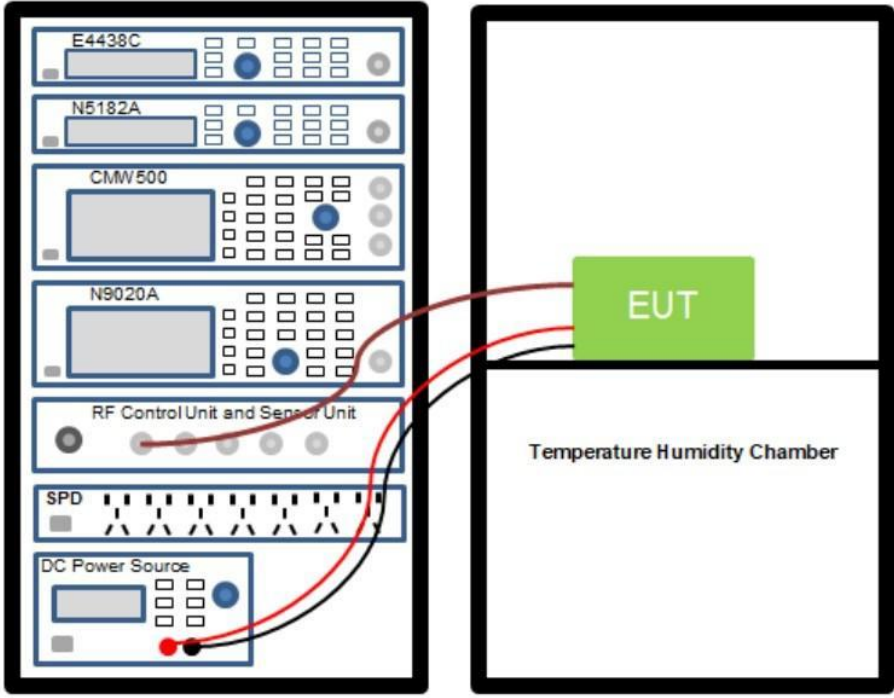
k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide

RBW: Resolution Bandwidth (MHz).

(9) If the EUT has multiple antennas, measure the spurious emission form each individual antenna using steps (1) through (9)

(10) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values

(11) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)

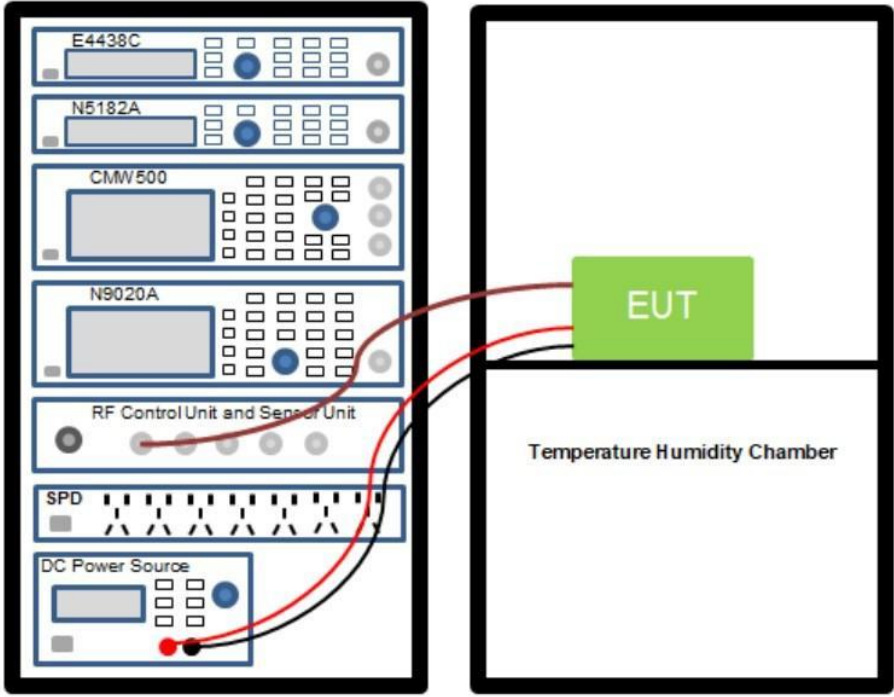
	(12) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard) (13) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined
Test Setup:	 The diagram illustrates the test setup. On the left, a rack of electronic equipment includes an E4438C, N5182A, CMW500, N9020A, RF Control Unit and Sensor Unit, SPD, and a DC Power Source. On the right, a Temperature Humidity Chamber contains the EUT (Equipment Under Test). Red and black cables connect the equipment to the chamber, specifically linking the RF Control Unit and Sensor Unit, SPD, and DC Power Source to the EUT.
Operating Environment:	
Temperature:	23.8 °C
Humidity:	52.2 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.5.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.6 Adjacent Channel Emitted Power

Test Requirement:	Article 2-1, Item 19-3
Test Method:	Center Frequency: Test Frequency Span: (see Note1) RBW: 300kHz VBW: 300kHz Sweep time: Auto Sweep data points: 1001 or greater Detector mode: Sample (for Continuous Type) Positive peak (for Burst Type) Indication mode: Single sweep (for Continuous Type) Max hold (for Burst Type) Note1: 5.2GHz and 5.3GHz Band: Occupied bandwidth $\leq$ 20MHz: 20MHz 20 MHz < Occupied bandwidth $\leq$ 40 MHz: 40MHz 40 MHz < Occupied bandwidth $\leq$ 80 MHz: 80MHz 38MHz < OBW $\leq$ 78MHz: 78MHz 5.6GHz Band: OFDM: Occupied bandwidth $\leq$ 20 MHz: 20MHz 20 MHz < Occupied bandwidth $\leq$ 40 MHz: 40MHz 40 MHz < Occupied bandwidth $\leq$ 80 MHz: 80MHz Non-OFDM modulation: 18MHz
Test Limit:	For Bandwidth equal to 20MHz and 40MHz: $F_c \pm 20\text{MHz} : -25\text{dBc}$ $F_c \pm 40\text{MHz} : -40\text{dBc}$ For Bandwidth above 40MHz: $F_c \pm 80\text{MHz} : -25\text{dBc}$
Procedure:	(1) Configure the spectrum analyzer to [Setting 1] and set the EUT to transmit mode (2) Measure the transmitter power (defined as P_C) using the procedure shown below: (a) Set the center of the span to the transmit frequency (b) After sweeping the entire span, send the span data set to the PC (c) Convert measured data from dBm to Watts (d) Sum all the data to derive the P_C (3) Measure the Upper Adjacent Channel Leakage Power (defined as P_U) using the procedure shown below. For measurement frequency, see Note2. (a) Set the center of the span to [Transmit Frequency + 20 MHz (or 40 MHz)] (b) Sweep the entire span, send the span data set to the PC (c) Convert measured data from dBm to Watts (d) Sum all the data to derive the P_U (e) After setting the center of the span to [Transmit Frequency + 40MHz (or 80 MHz)], repeat steps (b) through step (d) (4) Measure the Lower Adjacent Channel Leakage Power (defined as P_L) using the procedure shown below. For measurement frequency, see Note2. (a) Set the center of the span to [Transmit Frequency + 20 MHz (or 40 MHz)] (b) Sweep the entire span, send the span data set to the PC (c) Convert measured data from dBm to Watts (d) Sum all the data to derive the P_L (e) After setting the center of the span to [Transmit Frequency + 40MHz (or 80 MHz)], repeat steps (b) through step (d) (5) Derive all the Adjacent Channel Leakage Power Ratios using the formula shown below:

	- Upper Adjacent Channel Leakage Power Ratio = $10 \log (P_U / P_C)$ - Lower Adjacent Channel Leakage Power Ratio = $10 \log (P_L / P_C)$ (6) If the EUT has multiple antennas then the following steps shall be taken: (a) Repeat steps (1) through step (5) for each individual antenna (b) Repeat steps (1) through step (5) with all the antennas combined (c) To derive the total P_C, sum the individual antenna P_C measurements from step (a) (d) Derive the total P_U and total P_L using the same procedure as step (c) (e) Calculate the Adjacent Channel Leakage Power Ratio using the total P_C, total P_U and total P_L using the formula in step (5) (f) Note 2: 5.2 GHz and 5.3 GHz band: OBW $\leq$ 18 MHz: Transmit frequency $\pm$ 20 MHz, $\pm$ 40 MHz 18MHz < OBW $\leq$ 19MHz: Transmit frequency $\pm$ 20 MHz, $\pm$ 40 MHz 19MHz < OBW $\leq$ 38MHz: Transmit frequency $\pm$ 40 MHz, $\pm$ 80 MHz 38MHz < OBW $\leq$ 78MHz: Transmit frequency $\pm$ 80 MHz 5.6GHz Band: OFDM: OBW $\leq$ 19.7MHz: Transmit frequency $\pm$ 20 MHz, $\pm$ 40 MHz 19.7MHz < OBW $\leq$ 38MHz: Transmit frequency $\pm$ 40 MHz, $\pm$ 80 MHz 38MHz < OBW $\leq$ 78MHz: Transmit frequency $\pm$ 80 MHz Other than OFDM: Transmit frequency $\pm$ 20 MHz, $\pm$ 40 MHz
Test Setup:	
Operating Environment:	
Temperature:	22.7 °C
Humidity:	50.3 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.6.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.7 Spurious Emission Intensity

Test Requirement:	Article 2-1, Item 19-3																																												
Test Method:	[Setting 1]																																												
	Frequency range:	Test frequency rage as required																																											
	RBW:	1 MHz																																											
	VBW:	1 MHz																																											
	Sweep time:	Minimum time required to make an accurate measurement																																											
	Sweep Data Points:	1001 or greater																																											
	Detector mode:	Positive peak																																											
	Indication mode:	Max hold (see Note 1)																																											
	Note 1:	Sweep shall be repeated until the max hold waveform is stable.																																											
	[Setting 2]																																												
	Center frequency:	Frequency of spurious emission found using [Setting 1]																																											
	Span:	0 Hz																																											
	RBW:	1 MHz																																											
	VBW:	1 MHz																																											
	Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval																																											
	Sweep Data Points:	1001 or greater																																											
	Detector mode:	Sample																																											
Test Limit:	<table><tr><th colspan="4">W52</th></tr><tr><th colspan="2">20MHz system</th><th rowspan="2">40MHz system</th><th rowspan="2">80MHz system</th></tr><tr><th>OBW : 18MHz or less</th><th>OBW : 18 - 20 MHz</th></tr><tr><td>5.142 MHz or less : 2.5 μW/MHz</td><td>5.142 MHz or less : 2.5 μW/MHz</td><td>5.141.6 MHz or less : 2.5 μW/MHz</td><td>5.123.2 MHz or less : 2.5 μW/MHz</td></tr><tr><td>5.142 - 5.150 MHz : 15 μW/MHz</td><td>5.142 - 5.150 MHz : 15 μW/MHz</td><td>5.141.6 - 5.150 MHz : 15 μW/MHz</td><td>5.123.2 - 5.150 MHz : 15 μW/MHz</td></tr><tr><td></td><td>5.250 - 5.250.2 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td></td><td></td></tr><tr><td>5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.250.2 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td></tr><tr><td>5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.251 - 5.270 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td><td>5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz</td></tr><tr><td>5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz</td><td>5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz</td><td>5.270 - 5.278.4 MHz : $10^{-1} \cdot (f - 5.270) / 0.75$ mW/MHz</td><td>5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz</td></tr><tr><td>5.266.7 MHz or more : 2.5 μW/MHz</td><td>5.266.7 MHz or more : 2.5 μW/MHz</td><td>5.278.4 MHz or more : 2.5 μW/MHz</td><td>5.266.7 MHz or more : 2.5 μW/MHz</td></tr><tr><td>f = MHz, Difference from 5240 (MHz)</td><td>f = MHz, Difference from 5240 (MHz)</td><td>f = MHz, Difference from 5230 (MHz)</td><td>f = MHz, Difference from 5210 (MHz)</td></tr></table>			W52				20MHz system		40MHz system	80MHz system	OBW : 18MHz or less	OBW : 18 - 20 MHz	5.142 MHz or less : 2.5 μW/MHz	5.142 MHz or less : 2.5 μW/MHz	5.141.6 MHz or less : 2.5 μW/MHz	5.123.2 MHz or less : 2.5 μW/MHz	5.142 - 5.150 MHz : 15 μW/MHz	5.142 - 5.150 MHz : 15 μW/MHz	5.141.6 - 5.150 MHz : 15 μW/MHz	5.123.2 - 5.150 MHz : 15 μW/MHz		5.250 - 5.250.2 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz			5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.250.2 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.250 - 5.251 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.251 - 5.270 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.251 - 5.260 MHz : $10^{-1} \cdot (f - 5.250) / 0.75$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz	5.270 - 5.278.4 MHz : $10^{-1} \cdot (f - 5.270) / 0.75$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz	5.266.7 MHz or more : 2.5 μW/MHz	5.266.7 MHz or more : 2.5 μW/MHz	5.278.4 MHz or more : 2.5 μW/MHz	5.266.7 MHz or more : 2.5 μW/MHz	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)
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	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz	5.270 - 5.278.4 MHz : $10^{-1} \cdot (f - 5.270) / 0.75$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-1} \cdot (f - 5.260) / 0.75$ mW/MHz																																									
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	W53																																												
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5.240 - 5.249 MHz : $10^{-1} \cdot (f - 5.240) / 0.75$ mW/MHz	5.240 - 5.249 MHz : $10^{-1} \cdot (f - 5.240) / 0.75$ mW/MHz	5.230 - 5.249 MHz : $10^{-1} \cdot (f - 5.230) / 0.75$ mW/MHz	5.210 - 5.249 MHz : $10^{-1} \cdot (f - 5.210) / 0.75$ mW/MHz																																										
5.249 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.249 - 5.249.8 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.249 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.249 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz																																										
5.249.8 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.249.8 - 5.250 MHz : $10^{-1} \cdot (f - 5.249) / 0.75$ mW/MHz	5.350 - 5.358.4 MHz : 15 μW/MHz	5.350 - 5.376.8 MHz : 15 μW/MHz																																										
5.350 MHz or more : 2.5 μW/MHz	5.350 MHz or more : 2.5 μW/MHz	5.358.4 MHz or more : 2.5 μW/MHz	5.376.8 MHz or more : 2.5 μW/MHz																																										
f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)																																										
<table><tr><th colspan="4">W56</th></tr><tr><th colspan="2">20MHz system</th><th rowspan="2">40MHz system</th><th rowspan="2">80MHz system</th></tr><tr><th>DSSS, etc.</th><th>OFDM</th></tr><tr><td>5.470 MHz or less : 12.5 uW/MHz</td><td>5.460 MHz or less : 2.5 uW/MHz</td><td>5.460 MHz or less : 12.5 uW/MHz</td><td>5.460 MHz or less : 12.5 uW/MHz</td></tr><tr><td></td><td>5.460 - 5.470 MHz : 12.5 uW/MHz</td><td>5.460 - 5.470 MHz : 90 uW/MHz</td><td>5.460 - 5.469.5 MHz : 90 uW/MHz</td></tr><tr><td></td><td>5.745 - 5.765 MHz : 12.5 uW/MHz</td><td></td><td>5.469.5 - 5.470 MHz : 51.2 uW/MHz</td></tr><tr><td>5.730 MHz or more : 12.5 uW/MHz</td><td>Over 5.765 MHz : 2.5 uW/MHz</td><td>5.770 MHz or more : 12.5 uW/MHz</td><td>5.770 MHz or more : 12.5 uW/MHz</td></tr></table>			W56				20MHz system		40MHz system	80MHz system	DSSS, etc.	OFDM	5.470 MHz or less : 12.5 uW/MHz	5.460 MHz or less : 2.5 uW/MHz	5.460 MHz or less : 12.5 uW/MHz	5.460 MHz or less : 12.5 uW/MHz		5.460 - 5.470 MHz : 12.5 uW/MHz	5.460 - 5.470 MHz : 90 uW/MHz	5.460 - 5.469.5 MHz : 90 uW/MHz		5.745 - 5.765 MHz : 12.5 uW/MHz		5.469.5 - 5.470 MHz : 51.2 uW/MHz	5.730 MHz or more : 12.5 uW/MHz	Over 5.765 MHz : 2.5 uW/MHz	5.770 MHz or more : 12.5 uW/MHz	5.770 MHz or more : 12.5 uW/MHz																	
W56																																													
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5.730 MHz or more : 12.5 uW/MHz	Over 5.765 MHz : 2.5 uW/MHz	5.770 MHz or more : 12.5 uW/MHz	5.770 MHz or more : 12.5 uW/MHz																																										

WS2 + WS3	WS6	* A related value is defined by the E.I.R.P. * Measurement range: 30MHz to 26GHz
160MHz system		
5,099.6 MHz or less : 2.5 µV/MHz	5,419.6 MHz or less : 12.5 µV/MHz	
5,099.6 - 5,150 MHz : 15 µV/MHz	5,419.6 - 5,470 MHz : 50 µV/MHz	
5,350 - 5,400.4 MHz : 15 µV/MHz	5,725 MHz or more : 12.5 µV/MHz	
5,400.4 MHz or more : 2.5 µV/MHz		

5.21GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.29GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.63GHz & 5.69GHz
80MHz + 80MHz system (Not adjacent radio)		
5,134.8 MHz or less : 2.5 µV/MHz	5,214.8 MHz or less : 2.5 µV/MHz	5,419.6 MHz or less : 12.5 µV/MHz
5,134.8 - 5,150 MHz : 162.5 µV/MHz	5,214.8 - 5,249 MHz : $10^{-(9.7900(f-43)-1+10\log(1/10))\text{dBm/MHz}}$	5,419.6 - 5,470 MHz : 50 µV/MHz
5,250 - 5,251 MHz : $10^{-(9.7900(f-43)-1+10\log(1/10))\text{dBm/MHz}}$	5,249 - 5,250 MHz : $10^{-(9.7900(f-43)-1+10\log(1/10))\text{dBm/MHz}}$	
5,251 - 5,285.2 MHz : $10^{-(9.7900(f-43)-1+10\log(1/10))\text{dBm/MHz}}$	5,350 - 5,365.2 MHz : 15 µV/MHz	5,770 MHz or more : 15 µV/MHz
5,285.2 - 5,370 MHz : 2.5 µV/MHz	5,365.2 - 5,410 MHz : 2.5 µV/MHz	
5,370 - 5,454.8 MHz (When used simultaneously with a 5.2GHz band high-power radio station : 12.5 µV/MHz)	5,410 - 5,454.8 MHz : 2.5 µV/MHz	
5,454.8 - 5,470 MHz (When used simultaneously with a 5.2GHz band high-power radio station : 15 µV/MHz)	5,454.8 - 5,470 MHz : 15 µV/MHz	
5,730 MHz or more : 15 µV/MHz	5,730 MHz or more : 15 µV/MHz	
(*When used 5690MHz)	(*When used 5690MHz)	
5,770 MHz or more : 15 µV/MHz	5,770 MHz or more : 15 µV/MHz	
f = MHz, Difference from 5210 (MHz)	f = MHz, Difference from 5200 (MHz)	

Procedure:

(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)

(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.

(3) Calculate the spurious emission value (Calculated Value) using following the formula below:

Calculated Value = (Measured Value using (3) + 15.2dB)
Note: 15.2dB adjustment is derived from the Conversion Factor of RBW
Conversion Factor of RBW = 10 x Log (Reference Bandwidth / RBW of measurement) = 15.2 [dB] Where: Reference Bandwidth = 1 MHz
RBW of measurement = 30 kHz

(4) If the calculated value using (4) is over the Limit (section 6.7), go to (6)

(6) Configure the spectrum analyzer to [Setting 3] then make the following changes:
Frequency: Frequency of spurious emission
Span: 1 MHz

(6) After sweep, send the span data set to the PC

(7) Convert measured data from dBm to Watts

(8) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

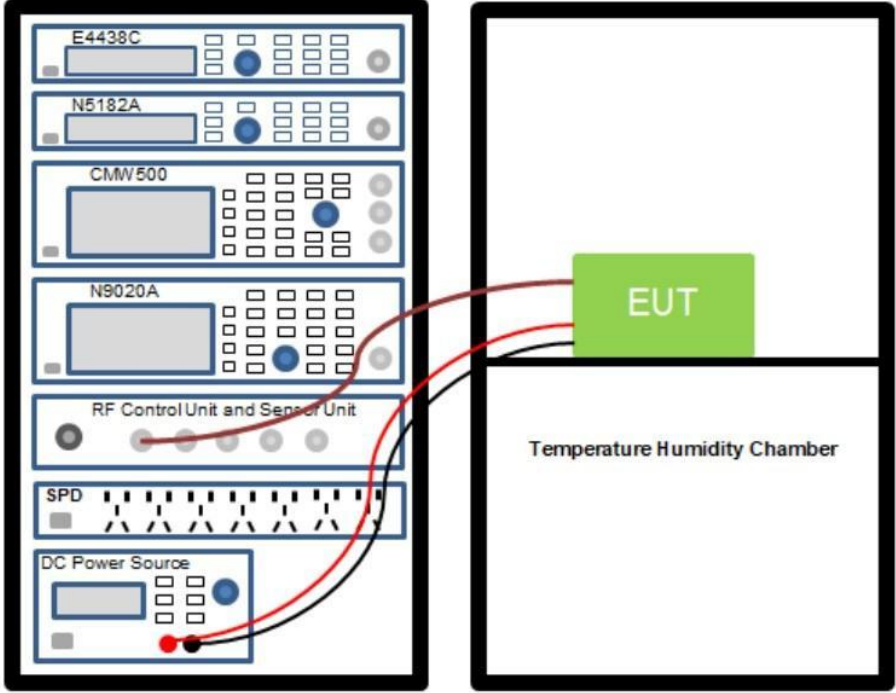
$$P_s = \left(\sum_{i=1}^n E_i \right) \times \frac{S_w}{RBW \times k \times n}$$

Ps: Sum (Watts)
Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)
n: Number of measurement points in the Span
k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide
RBW: Resolution Bandwidth (MHz).

(9) If the EUT has multiple antennas, measure the spurious emission form each individual antenna using steps (1) through (9)

(10) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values

(11) Combine (sum) the absolute values of the spurious measurements at each

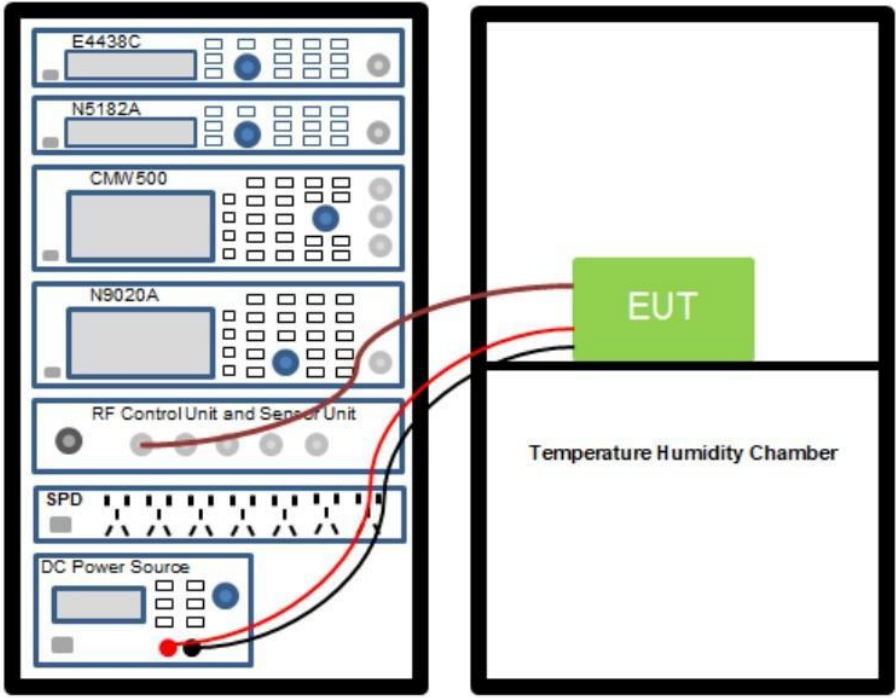
	frequency for each antenna (to create a single composite spectrum of spurious emissions) (12) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard) (13) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined
Test Setup:	
Operating Environment:	
Temperature:	22.9 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.7.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.8 Secondary Radiated Emissions

Test Requirement:	Article 2-1, Item 19-3	
Test Method:	[Setting 1]	
	Frequency range:	30 MHz ~ 12.5 GHz
	RBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	VBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	[Setting 2]	
	Center Frequency:	Frequency of spurious emission found using [Setting 1]
	Span:	0 Hz
	RBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	VBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Sample
Test Limit:	(1) Below 1 GHz: 4 nW (-54dBm) or less (2) Above 1 GHz: 20 nW (-47dBm) or less	
Procedure:	(1) Configure the spectrum analyzer to [Setting 1] and then search for spurious emissions in the range 30 MHz to 12.5GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. (2) If spurious emissions are found with an amplitude greater than [Limit - 10dB] then perform further detailed measurements as described in (3) (3) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude. If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time Multiple Antenna Systems If the EUT has multiple antennas then emissions from each antenna shall be measured individually, as described below (4) For each antenna repeat steps (1) through (3). Convert all spurious level measurements from dB to absolute value (5) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions) (6) Ensure that the composite spectrum does not exceed the Limit	

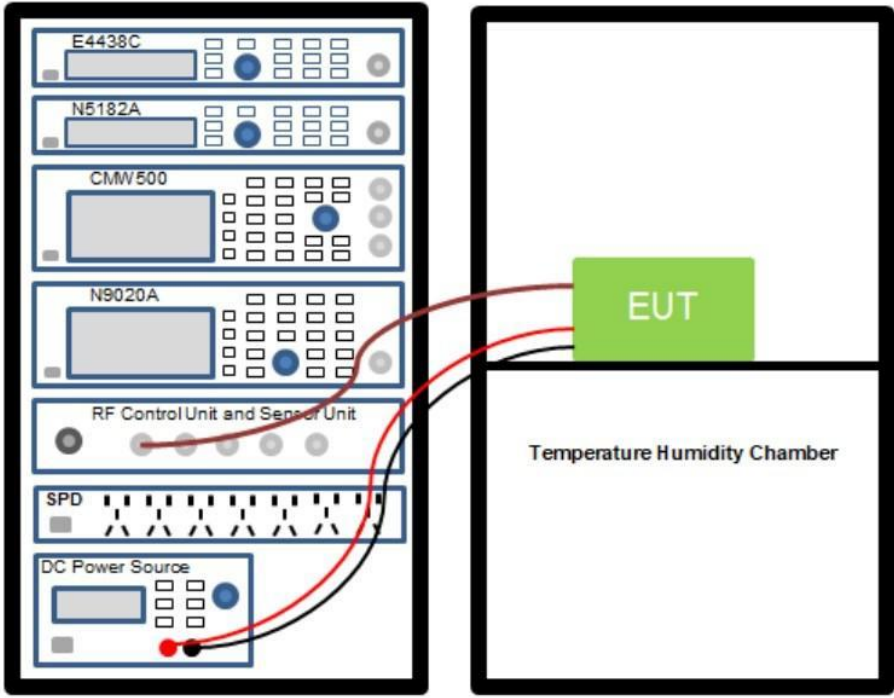
Test Setup:	
Operating Environment:	
Temperature:	25.4 °C
Humidity:	49.6 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.8.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.9 Carrier Sensing

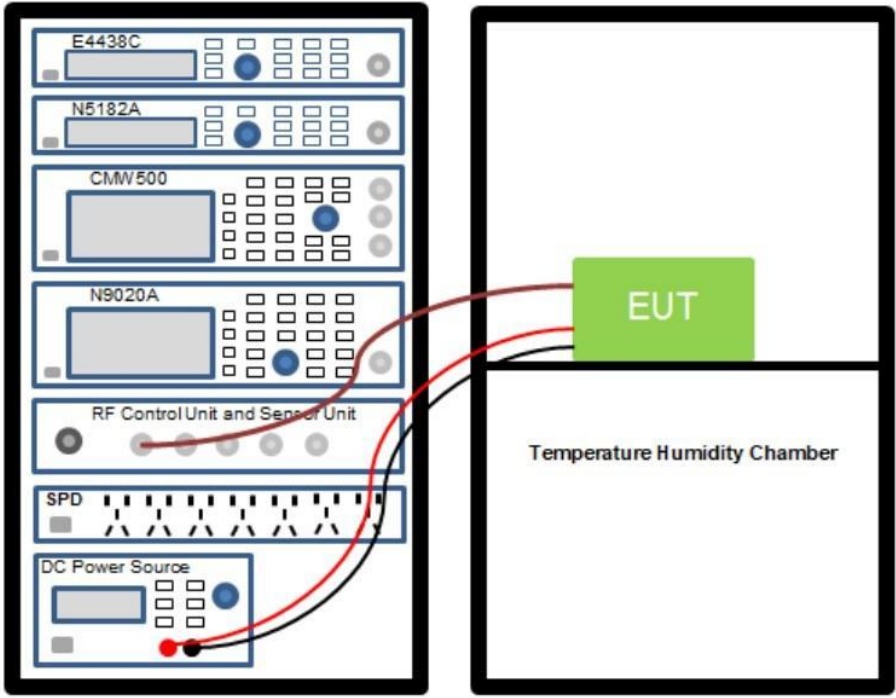
Test Requirement:	Article 2-1, Item 19-3	
Test Method:	Signal Generator Settings	
	[Setting 1]	
	Output frequency:	Center of test frequency
	Modulation:	Un-modulated, see note
	Output level:	The required level at the EUT antenna input, as defined by the applicant
	Note:	
	If the EUT's carrier sensing cannot function with an un-modulated signal at the center of the test frequency, then the un-modulated signal can be moved away from the center.	
	Spectrum Analyzer Settings	
	[Setting 2]	
	Frequency:	Center of test frequency
	Span:	50 MHz
	RBW:	1 MHz
	VBW:	1 MHz
	Trigger:	Free running
	Detector:	Positive peak
Test Limit:	Field intensity in the direction of the maximum gain of a receiving antenna : 100mV/m	
	*Start transmission after performing a carrier sense. However, when transmission and reception are controlled from other radio equipment, and when the radio equipment which performed transmission resumes transmission within 8 millisecond after a career sense, it can omit performing a career sense.	
Procedure:	Testing without a Link Partner (1) Set the spectrum analyzer to [Setting 2] (2) With the signal generator OFF, set the EUT to transmit mode (3) Set the EUT to receive mode (4) First, set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal	
	Testing with a Link Partner (1) Set the spectrum analyzer to [Setting 2] (2) Set the signal generator output to OFF (3) After establishing a connection between the EUT and the Link Partner, set the EUT to transmit mode (4) Set the EUT to receive mode (5) Set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal	

Test Setup:	
Operating Environment:	
Temperature:	22.7 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.9.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

5.10 Interference Prevention Function

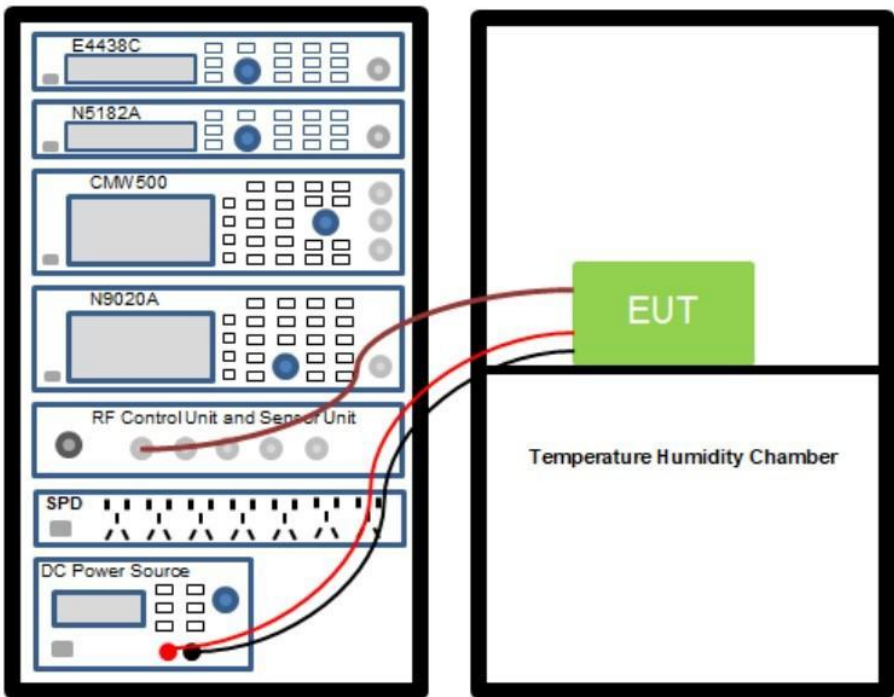
Test Requirement:	Article 2-1, Item 19-3
Test Method:	- Demodulator A device capable of demodulating and displaying identification data transmitted by the EUT. - Link Partner A device capable of transmitting identification data suitable for reception by the EUT.
Test Limit:	The EUT shall support one of the following functions: - Automatic identification transmission - Automatic identification reception
Procedure:	(1) For EUTs capable of automatically transmitting identification data - Transmit identification data from EUT to Demodulator - Confirm identification data is correctly received by Demodulator (2) For EUTs capable of automatically receiving identification data - Transmit identification data from Link Partner to EUT - Confirm communication link is established - Link Partner shall respond by transmitting different identification data back to the EUT - Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different
Test Setup:	 The diagram illustrates the test setup. On the left is a rack of test equipment including a spectrum analyzer (E4438C), a network analyzer (N5182A), a signal generator (CMW500), a network analyzer (N9020A), an RF control unit and sensor unit, a signal path device (SPD), and a DC power source. On the right is a Temperature Humidity Chamber containing the EUT (Equipment Under Test). Red and black cables connect the RF control unit and sensor unit to the EUT. A DC power source is also connected to the EUT.
Operating Environment:	
Temperature:	25.4 °C
Humidity:	46.5 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.10.1 Test Data

The detected ID of the device is below:
89:5h:hg:65:dr:45

Test result: The device meet the requirements
PASS

5.11 Transmission Burst Length

Test Requirement:	Article 2-1, Item 19-3
Test Method:	Frequency: Center of tested frequency Span: 0 Hz RBW: 1 MHz VBW: 1 MHz Sweep time: Auto Sweep data points: 1001 or greater Detector mode: Sample
Test Limit:	8ms or less
Procedure:	Configure the spectrum analyzer to [Setting 1] and then search the max pulse, and measure the transmission time.
Test Setup:	
Operating Environment:	
Temperature:	23.7 °C
Humidity:	46.4 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 5V

5.11.1 Test Data

Please Refer to Appendix-5G WIFI for Details.

6 Test Setup Photos

Please refer to Appendix I Test Setup Photos.

7 EUT Constructional Details (EUT Photos)

Please refer to Appendix II External Photos and Appendix III Internal Photos.



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-- END OF REPORT --