



MEASUREMENT REPORT

FCC PART 15 Subpart E WLAN 802.11ax

Report No.: S2023090421420105

Issue Date: 09-14-2024

Applicant: Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Address: Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, 518057 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
FCC ID: ZLZ-WXT5CM2803
Product: WiFi module
Model No.: WXT5CM2803
FCC Classification: Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s): Part 15 Subpart E (Section 15.407)
Test Procedure(s): ANSI C63.10-2013, KDB 789033 D02v02r01, KDB 662911 D01v02r01, KDB 987594 D02v02r01
Item Receipt date: Sep 04, 2023
Test Date: Sep 11 2023 ~ Sep 10, 2024

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The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported herein relate only to the item(s) tested.

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The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S2023090421420105	Rev. 01	/	09-14-2024

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§2.1033 General Information

Applicant:	Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Applicant Address:	Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, 518057 Shenzhen, PEOPLE's REPUBLIC OF CHINA
Manufacturer:	Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Manufacturer Address:	Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, 518057 Shenzhen, PEOPLE's REPUBLIC OF CHINA
Test Site:	Fangguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
Test Site Address:	G9 Building, China Sensor Network International Innovation Park No.200, Linghu Avenue Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	Part 15 Subpart E (15.407)
FCC ID:	ZLZ-WXT5CM2803
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	Unlicensed National Information Infrastructure (UNII)

1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at 200 Linghu Avenue, Xinwu District, Wuxi City. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.

2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	WiFi module
Model Name:	WXT5CM2803
Trade Mark:	mindray
Input Voltage Range:	DC 3.3V
Wi-Fi Specification:	802.11ax-HE20/ax-HE40/ax-HE80

Note:

There are three types of antennas for the WiFi module. The antennas are RD542109NB87-1, RD542109NB87-2 and RD542109NB87-3.

2.2. Product Specification Subjective to this Report

Frequency Range:	5925MHz ~ 6425MHz 6425MHz ~ 6525MHz 6525MHz ~ 6875MHz 6875MHz ~ 7125MHz
Type of Modulation:	802.11ax: OFDM/BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM
Data Rate:	802.11ax: up to 1201Mbps
Antenna Type:	FPC dipole
Antenna Gain:	5925MHz ~ 6425MHz: RD542109NB87-1 Antenna: Ant1 3.9dBi, Ant2 3.9dBi RD542109NB87-2 Antenna: Ant1 3.36dBi, Ant2 3.36dBi RD542109NB87-3 Antenna: Ant1 2.64dBi, Ant2 2.64dBi 6425MHz ~ 7125MHz: RD542109NB87-1 Antenna: Ant1 4.92dBi, Ant2 4.92dBi RD542109NB87-2 Antenna: Ant1 3.61dBi, Ant2 3.61dBi RD542109NB87-3 Antenna: Ant1 1.93dBi, Ant2 1.93dBi

2.3. Operation Frequencies and Channel List

802.11ax-HE20

5925MHz ~ 6425MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5955	5	5975	9	5995
13	6015	17	6035	21	6055

25	6075	29	6095	33	6115
37	6135	41	6155	45	6175
49	6195	53	6215	57	6235
61	6255	65	6275	69	6295
73	6315	77	6335	81	6355
85	6375	89	6395	93	6415

6425MHz ~ 6525MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
97	6535	101	6455	105	6475
109	6495	113	6515	--	--

6525MHz ~ 6875MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
117	6535	121	6555	125	6575
129	6595	133	6615	137	6635
141	6655	145	6675	149	6695
153	6715	157	6735	161	6755
165	6775	169	6795	173	6815
177	6835	181	1855	--	--

6875MHz ~ 7125MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
189	6895	193	6915	197	6935
201	6955	205	6975	209	6995
213	7015	217	7035	221	7055
225	7075	229	7095	233	7115

802.11ax-HE40

5925MHz ~ 6425MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
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3	5965	11	6005	19	6045
27	6085	35	6125	43	6165
51	6205	59	6245	67	6285
75	6325	83	6365	91	6405

6425MHz ~ 6525MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
99	6445	107	6485	--	--

6525MHz ~ 6875MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
123	6565	131	6605	139	6645
147	6685	155	6725	163	6765
171	6805	179	6845	--	--

6875MHz ~ 7125MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
195	6925	203	6965	211	7005
219	7045	227	7085	--	--

802.11ax-HE80

5925MHz ~ 6425MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7	5985	23	6065	39	6145
55	6225	71	6305	87	6385

6425MHz ~ 6525MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
103	6465	--	--	--	--

6525MHz ~ 6875MHz

Channel	Frequency	Channel	Frequency	Channel	Frequency
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	(MHz)		(MHz)		(MHz)
135	6625	151	6705	167	6785

6875MHz ~ 7125MHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
199	6945	215	7025	--	--

2.4. Description of Available Antennas

1) For Antenna RD542109NB87-1

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
FPC Antenna	2.4&5&6	WiFi module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	2412 ~2462	2	-0.68	-0.68	Nonsupport	2.33
	5150 ~ 5250	2	3.29	3.29	Nonsupport	6.30
	5250 ~ 5350					
	5450 ~ 5725					
	5725 ~ 5850	2	3.90	3.90	Nonsupport	6.91
	5925 ~ 6425					
	6425 ~ 7125	2	4.92	4.92	Nonsupport	7.94

2) For Antenna RD542109NB87-2

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
FPC Antenna	2.4&5&6	WiFi module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		

WIFI Ant 1+Ant 2	2412 ~2462	2	2.05	2.05	Nonsupport	5.06
	5150 ~ 5250	2	3.17	3.17	Nonsupport	6.18
	5250 ~ 5350					
	5450 ~ 5725					
	5725 ~ 5850	2	3.36	3.36	Nonsupport	6.37
	5925 ~ 6425					
	6425 ~ 7125	2	3.61	3.61	Nonsupport	6.62

3) For Antenna RD542109NB87-3

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
FPC Antenna	2.4&5&6	WiFi module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	2412 ~2462	2	2.45	2.45	Nonsupport	5.46
	5150 ~ 5250	2	2.77	2.77	Nonsupport	5.78
	5250 ~ 5350					
	5450 ~ 5725					
	5725 ~ 5850	2	2.64	2.64	Nonsupport	5.65
	5925 ~ 6425					
	6425 ~ 7125	2	1.93	1.93	Nonsupport	4.94

Note:

Unequal Antenna gains, with equal transmit powers. For Antenna gains given by $G_1, G_2, \dots, G_N$ dBi transmit signals are correlated, then

- Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- Directional Gain(2.4G) = $10 \cdot \log[(10^{-0.68/20} + 10^{-0.68/20})^2 / 2] = 2.33$ dBi
- Directional Gain(2.4G) = $10 \cdot \log[(10^{2.05/20} + 10^{2.05/20})^2 / 2] = 5.06$ dBi
- Directional Gain(2.4G) = $10 \cdot \log[(10^{2.45/20} + 10^{2.45/20})^2 / 2] = 5.46$ dBi
- Directional Gain(5G) = $10 \cdot \log[(10^{3.29/20} + 10^{3.29/20})^2 / 2] = 6.30$ dBi
- Directional Gain(5G) = $10 \cdot \log[(10^{3.17/20} + 10^{3.17/20})^2 / 2] = 6.18$ dBi

- Directional Gain(5G) = $10 \cdot \log[(10^{2.77/20} + 10^{2.77/20})^2/2] = 5.78 \text{ dBi}$
- Directional Gain(6G) = $10 \cdot \log[(10^{3.90/20} + 10^{3.90/20})^2/2] = 6.91 \text{ dBi}$
- Directional Gain(6G) = $10 \cdot \log[(10^{3.36/20} + 10^{3.36/20})^2/2] = 6.37 \text{ dBi}$
- Directional Gain(6G) = $10 \cdot \log[(10^{2.64/20} + 10^{2.64/20})^2/2] = 5.65 \text{ dBi}$
- Directional Gain(6G) = $10 \cdot \log[(10^{4.92/20} + 10^{4.92/20})^2/2] = 7.94 \text{ dBi}$
- Directional Gain(6G) = $10 \cdot \log[(10^{3.61/20} + 10^{3.61/20})^2/2] = 6.62 \text{ dBi}$
- Directional Gain(6G) = $10 \cdot \log[(10^{1.93/20} + 10^{1.93/20})^2/2] = 4.94 \text{ dBi}$

2.5. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS)&5GHz WLAN (UNII) &6GHz WLAN

Note: 6GHz operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 8MHz, and detector = average per the guidance of Section B) 2) b) of KDB 789033 D02v02r01. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating Frequency 5925-6425MHz:

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11AX20MIMO	Ant1	5955	30.00	30.00	100.00
	Ant2	5955	30.00	30.00	100.00
	Ant1	6175	30.00	30.00	100.00
	Ant2	6175	30.00	30.00	100.00
	Ant1	6415	30.00	30.00	100.00
	Ant2	6415	30.00	30.00	100.00
11AX40MIMO	Ant1	5965	30.00	30.00	100.00
	Ant2	5965	30.00	30.00	100.00
	Ant1	6165	30.00	30.00	100.00
	Ant2	6165	30.00	30.00	100.00
	Ant1	6405	30.00	30.00	100.00
	Ant2	6405	30.00	30.00	100.00
11AX80MIMO	Ant1	5985	30.00	30.00	100.00
	Ant2	5985	30.00	30.00	100.00
	Ant1	6145	30.00	30.00	100.00
	Ant2	6145	30.00	30.00	100.00
	Ant1	6385	30.00	30.00	100.00

	Ant2	6385	30.00	30.00	100.00
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Operating Frequency 6425-6525MHz:

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11AX20MIMO	Ant1	6435	30.00	30.00	100.00
	Ant2	6435	30.00	30.00	100.00
	Ant1	6475	30.00	30.00	100.00
	Ant2	6475	30.00	30.00	100.00
	Ant1	6515	30.00	30.00	100.00
	Ant2	6515	30.00	30.00	100.00
11AX40MIMO	Ant1	6445	30.00	30.00	100.00
	Ant2	6445	30.00	30.00	100.00
	Ant1	6485	30.00	30.00	100.00
	Ant2	6485	30.00	30.00	100.00
11AX80MIMO	Ant1	6465	30.00	30.00	100.00
	Ant2	6465	30.00	30.00	100.00

Operating Frequency 6525-6875MHz:

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11AX20MIMO	Ant1	6535	30.00	30.00	100.00
	Ant2	6535	30.00	30.00	100.00
	Ant1	6695	30.00	30.00	100.00
	Ant2	6695	30.00	30.00	100.00
	Ant1	6855	30.00	30.00	100.00
	Ant2	6855	30.00	30.00	100.00
11AX40MIMO	Ant1	6565	30.00	30.00	100.00
	Ant2	6565	30.00	30.00	100.00
	Ant1	6685	30.00	30.00	100.00
	Ant2	6685	30.00	30.00	100.00
	Ant1	6845	30.00	30.00	100.00
	Ant2	6845	30.00	30.00	100.00
11AX80MIMO	Ant1	6625	30.00	30.00	100.00
	Ant2	6625	30.00	30.00	100.00
	Ant1	6705	30.00	30.00	100.00
	Ant2	6705	30.00	30.00	100.00

	Ant1	6785	30.00	30.00	100.00
	Ant2	6785	30.00	30.00	100.00

Operating Frequency 6875-7125MHz:

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11AX20MIMO	Ant1	6895	30.00	30.00	100.00
	Ant2	6895	30.00	30.00	100.00
	Ant1	6995	30.00	30.00	100.00
	Ant2	6995	30.00	30.00	100.00
	Ant1	7115	30.00	30.00	100.00
	Ant2	7115	30.00	30.00	100.00
11AX40MIMO	Ant1	6925	30.00	30.00	100.00
	Ant2	6925	30.00	30.00	100.00
	Ant1	6965	30.00	30.00	100.00
	Ant2	6965	30.00	30.00	100.00
	Ant1	7085	30.00	30.00	100.00
	Ant2	7085	30.00	30.00	100.00
11AX80MIMO	Ant1	6945	30.00	30.00	100.00
	Ant2	6945	30.00	30.00	100.00
	Ant1	7025	30.00	30.00	100.00
	Ant2	7025	30.00	30.00	100.00

Test Graphs see Appendix C.

2.6. Test Software

The test utility software used during testing was “Putty.exe”, Power Parameter Value:

Test Mode	MIMO											
	5925-6425 MHz			6425-6525 MHz			6525-6875 MHz			6875-7125 MHz		
802.11ax-HE20	3	4	2	1	1	1	2	4	2	2	1	2
802.11ax-HE40	4	4	3	2	--	2	2	4	4	2	3	3
802.11ax-HE80	5	7	5	--	4	--	6	8	8	4	--	4

2.7. Test Mode

The EUT not support partial RU's and channel puncturing mode.

Test Mode	Mode 1: Transmit by 802.11ax- HE20 MIMO
	Mode 2: Transmit by 802.11ax- HE40 MIMO
	Mode 3: Transmit by 802.11ax- HE80 MIMO

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Tate
802.11ax- HE20	MCS0
802.11ax- HE40	MCS0
802.11ax- HE80	MCS0

The test channel number:

Operating Frequency	5925-6425MHz	6425-6525MHz	6525-6875MHz	6875-7125MHz
	802.11ax- HE20	802.11ax- HE20	802.11ax- HE20	802.11ax- HE20
Low	001	097	117	189
Middle	045	105	149	209
High	093	113	181	233

Operating Frequency	5925-6425MHz	6425-6525MHz	6525-6875MHz	6875-7125MHz
	802.11ax- HE40	802.11ax- HE40	802.11ax- HE40	802.11ax- HE40
Low	003	099	123	195
Middle	043	--	147	103
High	091	107	179	227

Operating Frequency	5925-6425MHz	6425-6525MHz	6525-6875MHz	6875-7125MHz
	802.11ax- HE80	802.11ax- HE80	802.11ax- HE80	802.11ax- HE80

Low	007	--	135	199
Middle	039	103	151	--
High	087	--	167	215

2.8. Test Configuration

The EUT must comply with the requirement of the following standards:

- 1) FCC Part 15.407
- 2) FCC KDB 789033 D02
- 3) FCC KDB 987594 D02
- 4) FCC KDB 662911 D01
- 5)ANSI C63.10-2013

The EUT was tested per the guidance of KDB 789033 D02v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.9. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 789033 D02v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside a 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.11.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- Use a unique coupling to the intentional radiator.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	FWXGJC-2016-181	1 year	2025/03/07
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2025/04/28
Thermohygrometer	Yuhuaize	HTC-1	FWXDA-2016-385	1 year	2025/02/25

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	1 year	2025/07/23
Bi-Log Antenna	R&S	HL562E	FWXGJC-2016-267-06	1 year	2025/03/02
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2025/03/01
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	1 year	2025/07/26
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2025/07/26
Pre-Amplifier	R&S	SCU-18D	FWXGJC-2016-267-05	1 year	2025/07/23
Pre-Amplifier	R&S	EMC184055 SE	FWXGJC-2018-018	1 year	2025/04/13
Thermohygrometer	Yuhuaize	HTC-1	FWXDA-2016-386	1 year	2024/11/03
Anechoic Chamber	Aimuke	EMCCT-3	FWXGJC-2016-270	3 year	2026/04/05

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2025/03/02
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2025/05/19
Signal Generator	R&S	SMM100A	SZTX2022-G042	1 year	2025/08/23
Thermohygrometer	Yuhuaize	HTC-1	FWXDA-2016-385	1 year	2025/02/25

Test Software	Manufacturer	Version	Asset No.	Function
EMI Test Software	tonscend	/	/	/

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test 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 $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.05dB
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 3.06dB 1GHz-12.75GHz: 4.13dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 1.00 dB 1GHz-26.5GHz: 1.30 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.60dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.80dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.20MHz

7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	26dB Emission Bandwidth	< 320MHz	Conducted	Pass	Section 7.2
2.1049	99% Occupied Bandwidth	< 320MHz		Pass	Section 7.3
15.407(a)(8)	Maximum Conducted Output Power&Fundamental Maximum e.i.r.p.	≤ 24 dBm		Pass	Section 7.4
15.407(a)(8)	Maximum Power Spectral Density of e.i.r.p.	≤ -1 dBm/MHz		Pass	Section 7.5
15.407(b)(7)	In-Band Emissions(Mask)	Detail see section 6.6		Pass	Section 7.6
15.407(d)(6)	Contention-Based Protocol	Detail see section 6.7		Pass	Section 7.7
15.407(g)	Frequency Stability	N/A		Pass	Section 7.8
15.407(b)(6)	Unwanted Emissions	≤ -27dBm/MHz EIRP	Radiated	Pass	Section 7.9
15.205, 15.209 15.407(b)(5), (6), (7)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		Pass	
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.10

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

7.2. 26dB Bandwidth Measurement and 99% Bandwidth

7.2.1. Test Limit

The maximum transmitter channel bandwidth for U–NII devices in the 5.925–7.125 GHz band is 320 megahertz.

7.2.2. Test Procedure used

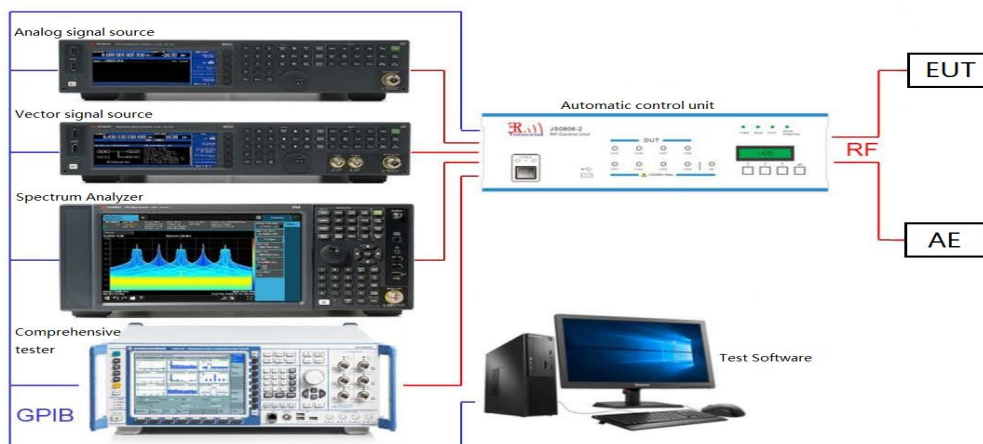
KDB 789033 D02v02r01 – Section C.1

ANSI C63.10-2013- Section 12.4.1

7.2.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The “X” dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.

7.2.4. Test Setup



7.2.5. Test Result

Operating Frequency 5925-6425MHz:

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	5955	21.520	5944.200	5965.720	≤320	PASS
	Ant2	5955	21.440	5944.040	5965.480	≤320	PASS
	Ant1	6175	21.440	6164.320	6185.760	≤320	PASS
	Ant2	6175	21.320	6164.120	6185.440	≤320	PASS
	Ant1	6415	21.280	6404.040	6425.320	≤320	PASS
	Ant2	6415	21.720	6403.880	6425.600	≤320	PASS
11AX40MIMO	Ant1	5965	39.760	5945.080	5984.840	≤320	PASS
	Ant2	5965	39.600	5945.080	5984.680	≤320	PASS
	Ant1	6165	39.280	6145.240	6184.520	≤320	PASS
	Ant2	6165	39.360	6145.320	6184.680	≤320	PASS
	Ant1	6405	39.360	6385.240	6424.600	≤320	PASS
	Ant2	6405	39.280	6385.320	6424.600	≤320	PASS
11AX80MIMO	Ant1	5985	80.160	5944.840	6025.000	≤320	PASS
	Ant2	5985	80.160	5944.680	6024.840	≤320	PASS
	Ant1	6145	80.160	6104.840	6185.000	≤320	PASS
	Ant2	6145	80.000	6104.840	6184.840	≤320	PASS
	Ant1	6385	80.160	6344.840	6425.000	≤320	PASS
	Ant2	6385	80.000	6345.000	6425.000	≤320	PASS

Operating Frequency 6425-6525MHz:

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	6435	21.320	6424.240	6445.560	≤320	PASS
	Ant2	6435	21.240	6424.200	6445.440	≤320	PASS
	Ant1	6475	21.080	6464.640	6485.720	≤320	PASS
	Ant2	6475	20.760	6464.480	6485.240	≤320	PASS
	Ant1	6515	21.200	6504.440	6525.640	≤320	PASS
	Ant2	6515	21.320	6504.360	6525.680	≤320	PASS
11AX40MIMO	Ant1	6445	39.520	6425.160	6464.680	≤320	PASS
	Ant2	6445	39.360	6425.160	6464.520	≤320	PASS
	Ant1	6485	39.200	6465.400	6504.600	≤320	PASS
	Ant2	6485	39.360	6465.320	6504.680	≤320	PASS
11AX80MIMO	Ant1	6465	80.160	6424.840	6505.000	≤320	PASS

	Ant2	6465	80.000	6425.000	6505.000	≤320	PASS
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Operating Frequency 6525-6875MHz:

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	6535	21.640	6524.080	6545.720	≤320	PASS
	Ant2	6535	21.640	6523.880	6545.520	≤320	PASS
	Ant1	6695	21.440	6684.360	6705.800	≤320	PASS
	Ant2	6695	21.720	6684.280	6706.000	≤320	PASS
	Ant1	6855	21.160	6844.360	6865.520	≤320	PASS
	Ant2	6855	21.360	6844.200	6865.560	≤320	PASS
11AX40MIMO	Ant1	6565	39.440	6545.160	6584.600	≤320	PASS
	Ant2	6565	39.520	6545.080	6584.600	≤320	PASS
	Ant1	6685	39.440	6665.240	6704.680	≤320	PASS
	Ant2	6685	39.600	6665.160	6704.760	≤320	PASS
	Ant1	6845	39.440	6825.240	6864.680	≤320	PASS
	Ant2	6845	39.360	6825.240	6864.600	≤320	PASS
11AX80MIMO	Ant1	6625	80.160	6584.840	6665.000	≤320	PASS
	Ant2	6625	80.000	6585.000	6665.000	≤320	PASS
	Ant1	6705	80.160	6664.840	6745.000	≤320	PASS
	Ant2	6705	79.840	6665.000	6744.840	≤320	PASS
	Ant1	6785	80.160	6744.840	6825.000	≤320	PASS
	Ant2	6785	79.840	6745.000	6824.840	≤320	PASS

Operating Frequency 6875-7125MHz:

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	6895	21.720	6884.320	6906.040	≤320	PASS
	Ant2	6895	21.320	6884.440	6905.760	≤320	PASS
	Ant1	6995	21.480	6984.200	7005.680	≤320	PASS
	Ant2	6995	21.120	6984.440	7005.560	≤320	PASS
	Ant1	7115	21.600	7104.120	7125.720	≤320	PASS
	Ant2	7115	21.520	7104.520	7126.040	≤320	PASS
11AX40MIMO	Ant1	6925	39.440	6905.160	6944.600	≤320	PASS
	Ant2	6925	39.360	6905.160	6944.520	≤320	PASS
	Ant1	6965	39.440	6945.160	6984.600	≤320	PASS
	Ant2	6965	39.280	6945.240	6984.520	≤320	PASS

	Ant1	7085	39.440	7065.080	7104.520	≤ 320	PASS
	Ant2	7085	39.520	7065.160	7104.680	≤ 320	PASS
11AX80MIMO	Ant1	6945	80.000	6905.000	6985.000	≤ 320	PASS
	Ant2	6945	80.000	6905.000	6985.000	≤ 320	PASS
	Ant1	7025	80.320	6984.680	7065.000	≤ 320	PASS
	Ant2	7025	79.840	6985.000	7064.840	≤ 320	PASS

Test Graphs see Appendix C.

7.3. 99% Occupied Bandwidth Measurement

7.3.1. Test Limit

The maximum transmitter channel bandwidth for U-NII devices in the 5.925–7.125 GHz band is 320 megahertz..

7.3.2. Test Procedure used

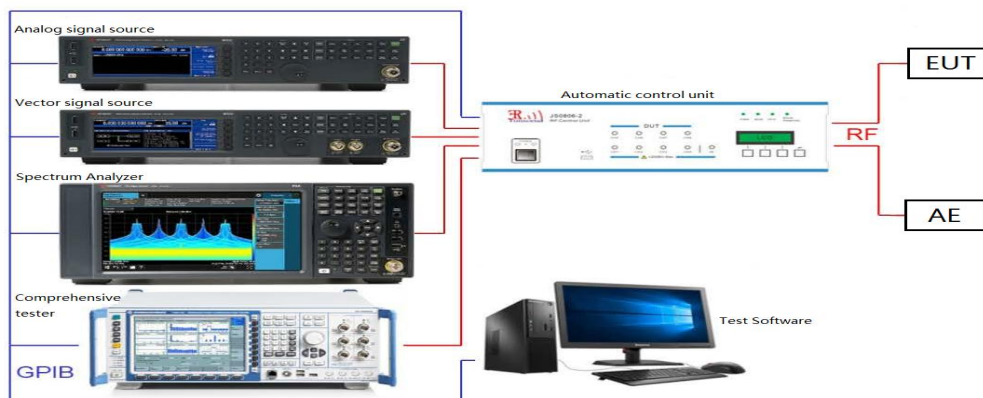
KDB 789033 D02v02r01 – Section D

ANSI C63.10-2013 - Section 6.9.3

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW.
4. Set VBW $\geq$ 3 RBW.
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).

7.3.4. Test Setup



7.3.5. Test Result

Operating Frequency 5925-6425MHz:

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	5955	19.059	5945.3633	5964.4223	≤320	PASS
	Ant2	5955	19.056	5945.3860	5964.4420	≤320	PASS
	Ant1	6175	19.057	6165.3831	6184.4401	≤320	PASS
	Ant2	6175	18.983	6165.3981	6184.3811	≤320	PASS
	Ant1	6415	19.046	6405.3877	6424.4337	≤320	PASS
	Ant2	6415	19.035	6405.3793	6424.4143	≤320	PASS
11AX40MIMO	Ant1	5965	37.538	5946.1226	5983.6606	≤320	PASS
	Ant2	5965	37.601	5946.1977	5983.7987	≤320	PASS
	Ant1	6165	37.402	6146.3033	6183.7053	≤320	PASS
	Ant2	6165	37.317	6146.3163	6183.6333	≤320	PASS
	Ant1	6405	37.522	6386.1697	6423.6917	≤320	PASS
	Ant2	6405	37.405	6386.2928	6423.6978	≤320	PASS
11AX80MIMO	Ant1	5985	76.852	5946.4006	6023.2526	≤320	PASS
	Ant2	5985	76.547	5946.5246	6023.0716	≤320	PASS
	Ant1	6145	76.853	6106.5801	6183.4331	≤320	PASS
	Ant2	6145	76.950	6106.2062	6183.1562	≤320	PASS
	Ant1	6385	76.579	6346.8117	6423.3907	≤320	PASS
	Ant2	6385	76.503	6346.9830	6423.4860	≤320	PASS

Operating Frequency 6425-6525MHz:

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	6435	19.108	6425.3580	6444.4660	≤320	PASS
	Ant2	6435	19.086	6425.3614	6444.4474	≤320	PASS
	Ant1	6475	19.028	6465.3720	6484.4000	≤320	PASS
	Ant2	6475	19.052	6465.3548	6484.4068	≤320	PASS
	Ant1	6515	19.040	6505.3829	6524.4229	≤320	PASS
	Ant2	6515	18.989	6505.4465	6524.4355	≤320	PASS
11AX40MIMO	Ant1	6445	37.467	6426.1045	6463.5715	≤320	PASS
	Ant2	6445	37.516	6426.1325	6463.6485	≤320	PASS
	Ant1	6485	37.596	6466.1227	6503.7187	≤320	PASS
	Ant2	6485	37.567	6466.1110	6503.6780	≤320	PASS

11AX80MIMO	Ant1	6465	76.905	6426.3073	6503.2123	≤320	PASS
	Ant2	6465	76.575	6426.6349	6503.2099	≤320	PASS

Operating Frequency 6525-6875MHz:

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	6535	19.042	6525.3875	6544.4295	≤320	PASS
	Ant2	6535	19.042	6525.3474	6544.3894	≤320	PASS
	Ant1	6695	19.071	6685.4107	6704.4817	≤320	PASS
	Ant2	6695	19.043	6685.4106	6704.4536	≤320	PASS
	Ant1	6855	19.072	6845.3542	6864.4262	≤320	PASS
	Ant2	6855	19.070	6845.3662	6864.4362	≤320	PASS
11AX40MIMO	Ant1	6565	37.381	6546.1939	6583.5749	≤320	PASS
	Ant2	6565	37.284	6546.1159	6583.3999	≤320	PASS
	Ant1	6685	37.616	6666.1426	6703.7586	≤320	PASS
	Ant2	6685	37.620	6666.1178	6703.7378	≤320	PASS
	Ant1	6845	37.455	6826.2336	6863.6886	≤320	PASS
	Ant2	6845	37.242	6826.4353	6863.6773	≤320	PASS
11AX80MIMO	Ant1	6625	76.710	6586.5889	6663.2989	≤320	PASS
	Ant2	6625	76.961	6586.4974	6663.4584	≤320	PASS
	Ant1	6705	76.951	6666.4533	6743.4043	≤320	PASS
	Ant2	6705	76.863	6666.4811	6743.3441	≤320	PASS
	Ant1	6785	76.708	6746.6105	6823.3185	≤320	PASS
	Ant2	6785	76.702	6746.4665	6823.1685	≤320	PASS

Operating Frequency 6875-7125MHz:

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	6895	19.048	6885.3804	6904.4284	≤320	PASS
	Ant2	6895	19.010	6885.4188	6904.4288	≤320	PASS
	Ant1	6995	19.028	6985.3439	7004.3719	≤320	PASS
	Ant2	6995	19.037	6985.3815	7004.4185	≤320	PASS
	Ant1	7115	19.080	7105.3393	7124.4193	≤320	PASS
	Ant2	7115	19.015	7105.4274	7124.4424	≤320	PASS
11AX40MIMO	Ant1	6925	37.580	6906.1344	6943.7144	≤320	PASS
	Ant2	6925	37.659	6906.1068	6943.7658	≤320	PASS
	Ant1	6965	37.526	6946.0968	6983.6228	≤320	PASS

	Ant2	6965	37.622	6946.1672	6983.7892	≤320	PASS
	Ant1	7085	37.503	7066.1335	7103.6365	≤320	PASS
	Ant2	7085	37.505	7066.1400	7103.6450	≤320	PASS
11AX80MIMO	Ant1	6945	76.788	6906.5478	6983.3358	≤320	PASS
	Ant2	6945	76.829	6906.6592	6983.4882	≤320	PASS
	Ant1	7025	76.774	6986.2813	7063.0553	≤320	PASS
	Ant2	7025	76.552	6986.5793	7063.1313	≤320	PASS

Test Graphs see Appendix C.

7.4. Output Power Measurement

7.4.1. Test Limit

For FCC Power Measurement Limit

For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

7.4.2. Test Procedure Used

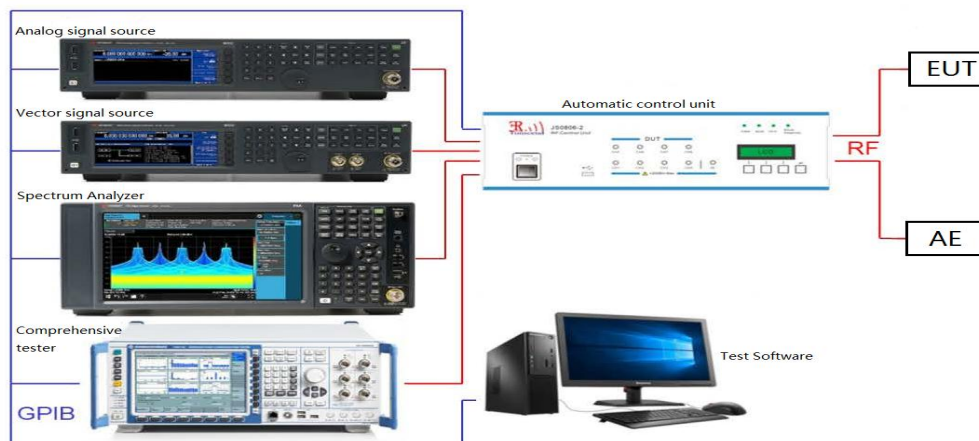
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.4.4. Test Setup



7.4.5. Test Result

Operating Frequency 5925-6425MHz:

Test Mode	Antenna	Channel	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11AX20MIMO	Ant1	5955	-0.37	100.00	0.00	-0.37	≤20.10	3.90	3.53	≤24.00	PASS
	Ant2	5955	-0.28	100.00	0.00	-0.28	≤20.10	3.90	3.62	≤24.00	PASS
	total	5955	---	---	---	2.69	≤17.09	6.91	9.60	≤24.00	PASS
	Ant1	6175	-2.11	100.00	0.00	-2.11	≤20.10	3.90	1.79	≤24.00	PASS
	Ant2	6175	-1.75	100.00	0.00	-1.75	≤20.10	3.90	2.15	≤24.00	PASS
	total	6175	---	---	---	1.08	≤17.09	6.91	7.99	≤24.00	PASS
	Ant1	6415	-1.03	100.00	0.00	-1.03	≤20.10	3.90	2.87	≤24.00	PASS
	Ant2	6415	-1.29	100.00	0.00	-1.29	≤20.10	3.90	2.61	≤24.00	PASS
	total	6415	---	---	---	1.85	≤17.09	6.91	8.76	≤24.00	PASS
11AX40MIMO	Ant1	5965	0.27	100.00	0.00	0.27	≤20.10	3.90	4.17	≤24.00	PASS
	Ant2	5965	2.49	100.00	0.00	2.49	≤20.10	3.90	6.39	≤24.00	PASS
	total	5965	---	---	---	4.53	≤17.09	6.91	11.44	≤24.00	PASS
	Ant1	6165	-1.88	100.00	0.00	-1.88	≤20.10	3.90	2.02	≤24.00	PASS
	Ant2	6165	-1.10	100.00	0.00	-1.10	≤20.10	3.90	2.80	≤24.00	PASS
	total	6165	---	---	---	1.54	≤17.09	6.91	8.45	≤24.00	PASS
	Ant1	6405	-0.13	100.00	0.00	-0.13	≤20.10	3.90	3.77	≤24.00	PASS
	Ant2	6405	0.15	100.00	0.00	0.15	≤20.10	3.90	4.05	≤24.00	PASS
	total	6405	---	---	---	3.02	≤17.09	6.91	9.93	≤24.00	PASS
11AX80MIMO	Ant1	5985	1.15	100.00	0.00	1.15	≤20.10	3.90	5.05	≤24.00	PASS
	Ant2	5985	2.42	100.00	0.00	2.42	≤20.10	3.90	6.32	≤24.00	PASS
	total	5985	---	---	---	4.84	≤17.09	6.91	11.75	≤24.00	PASS
	Ant1	6145	1.37	100.00	0.00	1.37	≤20.10	3.90	5.27	≤24.00	PASS
	Ant2	6145	2.95	100.00	0.00	2.95	≤20.10	3.90	6.85	≤24.00	PASS
	total	6145	---	---	---	5.24	≤17.09	6.91	12.15	≤24.00	PASS
	Ant1	6385	2.61	100.00	0.00	2.61	≤20.10	3.90	6.51	≤24.00	PASS
	Ant2	6385	1.14	100.00	0.00	1.14	≤20.10	3.90	5.04	≤24.00	PASS
	total	6385	---	---	---	4.95	≤17.09	6.91	11.86	≤24.00	PASS

Operating Frequency 6425-6525MHz:

Test Mode	Antenna	Channel	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11AX20MIMO	Ant1	6435	-1.17	100.00	0.00	-1.17	≤19.08	4.92	3.75	≤24.00	PASS
	Ant2	6435	-1.20	100.00	0.00	-1.2	≤19.08	4.92	3.72	≤24.00	PASS
	total	6435	---	---	---	1.83	≤16.06	7.94	9.77	≤24.00	PASS
	Ant1	6475	-1.15	100.00	0.00	-1.15	≤19.08	4.92	3.77	≤24.00	PASS
	Ant2	6475	-0.90	100.00	0.00	-0.9	≤19.08	4.92	4.02	≤24.00	PASS
	total	6475	---	---	---	1.99	≤16.06	7.94	9.93	≤24.00	PASS
	Ant1	6515	-1.59	100.00	0.00	-1.59	≤19.08	4.92	3.33	≤24.00	PASS
	Ant2	6515	-1.67	100.00	0.00	-1.67	≤19.08	4.92	3.25	≤24.00	PASS
	total	6515	---	---	---	1.38	≤16.06	7.94	9.32	≤24.00	PASS
11AX40MIMO	Ant1	6445	-0.20	100.00	0.00	-0.2	≤19.08	4.92	4.72	≤24.00	PASS
	Ant2	6445	-0.03	100.00	0.00	-0.03	≤19.08	4.92	4.89	≤24.00	PASS
	total	6445	---	---	---	2.9	≤16.06	7.94	10.84	≤24.00	PASS
	Ant1	6485	-0.12	100.00	0.00	-0.12	≤19.08	4.92	4.8	≤24.00	PASS
	Ant2	6485	-0.53	100.00	0.00	-0.53	≤19.08	4.92	4.39	≤24.00	PASS
	total	6485	---	---	---	2.69	≤16.06	7.94	10.63	≤24.00	PASS
11AX80MIMO	Ant1	6465	1.65	100.00	0.00	1.65	≤19.08	4.92	6.57	≤24.00	PASS
	Ant2	6465	1.46	100.00	0.00	1.46	≤19.08	4.92	6.38	≤24.00	PASS
	total	6465	---	---	---	4.57	≤16.06	7.94	12.51	≤24.00	PASS

Operating Frequency 6525-6875MHz:

Test Mode	Antenna	Channel	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11AX20MIMO	Ant1	6535	-0.81	100.00	0.00	-0.81	≤19.08	4.92	4.11	≤24.00	PASS
	Ant2	6535	-0.70	100.00	0.00	-0.7	≤19.08	4.92	4.22	≤24.00	PASS
	total	6535	---	---	---	2.26	≤16.06	7.94	10.2	≤24.00	PASS
	Ant1	6695	-1.40	100.00	0.00	-1.4	≤19.08	4.92	3.52	≤24.00	PASS
	Ant2	6695	-2.34	100.00	0.00	-2.34	≤19.08	4.92	2.58	≤24.00	PASS
	total	6695	---	---	---	1.17	≤16.06	7.94	9.11	≤24.00	PASS
	Ant1	6855	-0.32	100.00	0.00	-0.32	≤19.08	4.92	4.6	≤24.00	PASS
	Ant2	6855	-2.83	100.00	0.00	-2.83	≤19.08	4.92	2.09	≤24.00	PASS
	total	6855	---	---	---	1.61	≤16.06	7.94	9.55	≤24.00	PASS
11AX40MIMO	Ant1	6565	-0.86	100.00	0.00	-0.86	≤19.08	4.92	4.06	≤24.00	PASS
	Ant2	6565	1.77	100.00	0.00	1.77	≤19.08	4.92	6.69	≤24.00	PASS
	total	6565	---	---	---	3.66	≤16.06	7.94	11.6	≤24.00	PASS
	Ant1	6685	0.65	100.00	0.00	0.65	≤19.08	4.92	5.57	≤24.00	PASS
	Ant2	6685	0.63	100.00	0.00	0.63	≤19.08	4.92	5.55	≤24.00	PASS
	total	6685	---	---	---	3.65	≤16.06	7.94	11.59	≤24.00	PASS
	Ant1	6845	-0.68	100.00	0.00	-0.68	≤19.08	4.92	4.24	≤24.00	PASS
	Ant2	6845	-0.14	100.00	0.00	-0.14	≤19.08	4.92	4.78	≤24.00	PASS
	total	6845	---	---	---	2.61	≤16.06	7.94	10.55	≤24.00	PASS
11AX80MIMO	Ant1	6625	1.49	100.00	0.00	1.49	≤19.08	4.92	6.41	≤24.00	PASS
	Ant2	6625	0.72	100.00	0.00	0.72	≤19.08	4.92	5.64	≤24.00	PASS
	total	6625	---	---	---	4.13	≤16.06	7.94	12.07	≤24.00	PASS
	Ant1	6705	0.92	100.00	0.00	0.92	≤19.08	4.92	5.84	≤24.00	PASS
	Ant2	6705	1.40	100.00	0.00	1.4	≤19.08	4.92	6.32	≤24.00	PASS
	total	6705	---	---	---	4.18	≤16.06	7.94	12.12	≤24.00	PASS
	Ant1	6785	2.78	100.00	0.00	2.78	≤19.08	4.92	7.7	≤24.00	PASS
	Ant2	6785	2.67	100.00	0.00	2.67	≤19.08	4.92	7.59	≤24.00	PASS
	total	6785	---	---	---	5.74	≤16.06	7.94	13.68	≤24.00	PASS

Operating Frequency 6875-7125MHz:

Test Mode	Antenna	Channel	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11AX20MIMO	Ant1	6895	-1.49	100.00	0.00	-1.49	≤19.08	4.92	3.43	≤24.00	PASS
	Ant2	6895	-2.51	100.00	0.00	-2.51	≤19.08	4.92	2.41	≤24.00	PASS
	total	6895	---	---	---	1.04	≤16.06	7.94	8.98	≤24.00	PASS
	Ant1	6995	-1.14	100.00	0.00	-1.14	≤19.08	4.92	3.78	≤24.00	PASS
	Ant2	6995	-1.86	100.00	0.00	-1.86	≤19.08	4.92	3.06	≤24.00	PASS
	total	6995	---	---	---	1.53	≤16.06	7.94	9.47	≤24.00	PASS
	Ant1	7115	-3.39	100.00	0.00	-3.39	≤19.08	4.92	1.53	≤24.00	PASS
	Ant2	7115	-0.59	100.00	0.00	-0.59	≤19.08	4.92	4.33	≤24.00	PASS
	total	7115	---	---	---	1.24	≤16.06	7.94	9.18	≤24.00	PASS
11AX40MIMO	Ant1	6925	0.57	100.00	0.00	0.57	≤19.08	4.92	5.49	≤24.00	PASS
	Ant2	6925	-0.26	100.00	0.00	-0.26	≤19.08	4.92	4.66	≤24.00	PASS
	total	6925	---	---	---	3.19	≤16.06	7.94	11.13	≤24.00	PASS
	Ant1	6965	1.49	100.00	0.00	1.49	≤19.08	4.92	6.41	≤24.00	PASS
	Ant2	6965	-0.06	100.00	0.00	-0.06	≤19.08	4.92	4.86	≤24.00	PASS
	total	6965	---	---	---	3.79	≤16.06	7.94	11.73	≤24.00	PASS
	Ant1	7085	-1.59	100.00	0.00	-1.59	≤19.08	4.92	3.33	≤24.00	PASS
	Ant2	7085	1.19	100.00	0.00	1.19	≤19.08	4.92	6.11	≤24.00	PASS
	total	7085	---	---	---	3.03	≤16.06	7.94	10.97	≤24.00	PASS
11AX80MIMO	Ant1	6945	2.49	100.00	0.00	2.49	≤19.08	4.92	7.41	≤24.00	PASS
	Ant2	6945	1.00	100.00	0.00	1	≤19.08	4.92	5.92	≤24.00	PASS
	total	6945	---	---	---	4.82	≤16.06	7.94	12.76	≤24.00	PASS
	Ant1	7025	0.13	100.00	0.00	0.13	≤19.08	4.92	5.05	≤24.00	PASS
	Ant2	7025	1.39	100.00	0.00	1.39	≤19.08	4.92	6.31	≤24.00	PASS
	total	7025	---	---	---	3.82	≤16.06	7.94	11.76	≤24.00	PASS

7.5. Power Spectral Density Measurement

7.5.1. Test Limit

For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

7.5.2. Test Procedure Used

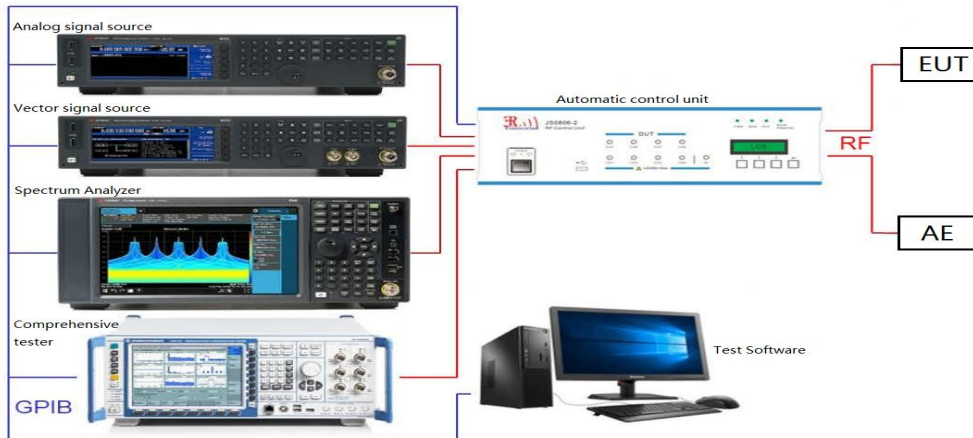
KDB 789033 D02v02r01 - Section F

ANSI C63.10-2013 - Section 12.3.2.2

7.5.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

7.5.4. Test Setup



7.5.5. Test Result

Operating Frequency 5925-6425MHz:

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	Gain [dBi]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11AX20MIMO	Ant1	5955	-11.49	≤-4.90	3.90	-7.59	≤-1.00	PASS
	Ant2	5955	-10.47	≤-4.90	3.90	-6.57	≤-1.00	PASS
	total	5955	-7.94	≤-7.91	6.91	-1.03	≤-1.00	PASS
	Ant1	6175	-13.21	≤-4.90	3.90	-9.31	≤-1.00	PASS
	Ant2	6175	-11.7	≤-4.90	3.90	-7.80	≤-1.00	PASS
	total	6175	-9.38	≤-7.91	6.91	-2.47	≤-1.00	PASS
	Ant1	6415	-12.06	≤-4.90	3.90	-8.16	≤-1.00	PASS
	Ant2	6415	-11.56	≤-4.90	3.90	-7.66	≤-1.00	PASS
	total	6415	-8.79	≤-7.91	6.91	-1.88	≤-1.00	PASS
11AX40MIMO	Ant1	5965	-13.2	≤-4.90	3.90	-9.30	≤-1.00	PASS
	Ant2	5965	-9.74	≤-4.90	3.90	-5.84	≤-1.00	PASS
	total	5965	-8.12	≤-7.91	6.91	-1.21	≤-1.00	PASS
	Ant1	6165	-14.73	≤-4.90	3.90	-10.83	≤-1.00	PASS
	Ant2	6165	-12.22	≤-4.90	3.90	-8.32	≤-1.00	PASS
	total	6165	-10.29	≤-7.91	6.91	-3.38	≤-1.00	PASS
	Ant1	6405	-13.34	≤-4.90	3.90	-9.44	≤-1.00	PASS
	Ant2	6405	-11.42	≤-4.90	3.90	-7.52	≤-1.00	PASS
	total	6405	-9.26	≤-7.91	6.91	-2.35	≤-1.00	PASS
11AX80MIMO	Ant1	5985	-14.54	≤-4.90	3.90	-10.64	≤-1.00	PASS

	Ant2	5985	-9.36	≤ -4.90	3.90	-5.46	≤ -1.00	PASS
	total	5985	-8.21	≤ -7.91	6.91	-1.30	≤ -1.00	PASS
	Ant1	6145	-15.97	≤ -4.90	3.90	-12.07	≤ -1.00	PASS
	Ant2	6145	-9.46	≤ -4.90	3.90	-5.56	≤ -1.00	PASS
	total	6145	-8.58	≤ -7.91	6.91	-1.67	≤ -1.00	PASS
	Ant1	6385	-13.95	≤ -4.90	3.90	-10.05	≤ -1.00	PASS
	Ant2	6385	-11.41	≤ -4.90	3.90	-7.51	≤ -1.00	PASS
	total	6385	-9.49	≤ -7.91	6.91	-2.58	≤ -1.00	PASS

Operating Frequency 6425-6525MHz:

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	Gain [dBi]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11AX20MIMO	Ant1	6435	-12.30	≤ -5.92	4.92	-7.16	≤ -1.00	PASS
	Ant2	6435	-12.84	≤ -5.92	4.92	-6.58	≤ -1.00	PASS
	total	6435	-9.55	≤ -8.94	7.94	-1.61	≤ -1.00	PASS
	Ant1	6475	-12.92	≤ -5.92	4.92	-7.02	≤ -1.00	PASS
	Ant2	6475	-11.31	≤ -5.92	4.92	-6.44	≤ -1.00	PASS
	total	6475	-9.03	≤ -8.94	7.94	-1.09	≤ -1.00	PASS
	Ant1	6515	-13.67	≤ -5.92	4.92	-7.41	≤ -1.00	PASS
	Ant2	6515	-14.63	≤ -5.92	4.92	-6.44	≤ -1.00	PASS
	total	6515	-11.11	≤ -8.94	7.94	-3.17	≤ -1.00	PASS
11AX40MIMO	Ant1	6445	-13.13	≤ -5.92	4.92	-8.21	≤ -1.00	PASS
	Ant2	6445	-12.08	≤ -5.92	4.92	-7.16	≤ -1.00	PASS
	total	6445	-9.56	≤ -8.94	7.94	-1.62	≤ -1.00	PASS
	Ant1	6485	-13.19	≤ -5.92	4.92	-8.27	≤ -1.00	PASS
	Ant2	6485	-12.77	≤ -5.92	4.92	-7.85	≤ -1.00	PASS
	total	6485	-9.96	≤ -8.94	7.94	-2.02	≤ -1.00	PASS
11AX80MIMO	Ant1	6465	-14.2	≤ -5.92	4.92	-9.28	≤ -1.00	PASS
	Ant2	6465	-11.72	≤ -5.92	4.92	-6.8	≤ -1.00	PASS
	total	6465	-9.78	≤ -8.94	7.94	-1.84	≤ -1.00	PASS

Operating Frequency 6525-6875MHz:

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	Gain [dBi]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11AX20MIMO	Ant1	6535	-13.03	≤ -5.92	4.92	-7.17	≤ -1.00	PASS
	Ant2	6535	-12.23	≤ -5.92	4.92	-6.4	≤ -1.00	PASS
	total	6535	-9.6	≤ -8.94	7.94	-1.66	≤ -1.00	PASS

	Ant1	6695	-12.49	≤ -5.92	4.92	-7.57	≤ -1.00	PASS
	Ant2	6695	-12.41	≤ -5.92	4.92	-7.49	≤ -1.00	PASS
	total	6695	-9.44	≤ -8.94	7.94	-1.5	≤ -1.00	PASS
	Ant1	6855	-11.35	≤ -5.92	4.92	-6.43	≤ -1.00	PASS
	Ant2	6855	-13.07	≤ -5.92	4.92	-8.15	≤ -1.00	PASS
	total	6855	-9.12	≤ -8.94	7.94	-1.18	≤ -1.00	PASS
11AX40MIMO	Ant1	6565	-13.08	≤ -5.92	4.92	-8.87	≤ -1.00	PASS
	Ant2	6565	-13.62	≤ -5.92	4.92	-5.19	≤ -1.00	PASS
	total	6565	-10.33	≤ -8.94	7.94	-2.39	≤ -1.00	PASS
	Ant1	6685	-16.80	≤ -5.92	4.92	-7.72	≤ -1.00	PASS
	Ant2	6685	-16.06	≤ -5.92	4.92	-5.83	≤ -1.00	PASS
	total	6685	-13.40	≤ -8.94	7.94	-5.46	≤ -1.00	PASS
	Ant1	6845	-13.76	≤ -5.92	4.92	-8.84	≤ -1.00	PASS
	Ant2	6845	-11.32	≤ -5.92	4.92	-6.4	≤ -1.00	PASS
	total	6845	-9.36	≤ -8.94	7.94	-1.42	≤ -1.00	PASS
11AX80MIMO	Ant1	6625	-14.77	≤ -5.92	4.92	-9.85	≤ -1.00	PASS
	Ant2	6625	-11.23	≤ -5.92	4.92	-6.31	≤ -1.00	PASS
	total	6625	-9.64	≤ -8.94	7.94	-1.7	≤ -1.00	PASS
	Ant1	6705	-15.15	≤ -5.92	4.92	-10.23	≤ -1.00	PASS
	Ant2	6705	-11.05	≤ -5.92	4.92	-6.13	≤ -1.00	PASS
	total	6705	-9.62	≤ -8.94	7.94	-1.68	≤ -1.00	PASS
	Ant1	6785	-13.88	≤ -5.92	4.92	-8.96	≤ -1.00	PASS
	Ant2	6785	-11.44	≤ -5.92	4.92	-6.52	≤ -1.00	PASS
	total	6785	-9.48	≤ -8.94	7.94	-1.54	≤ -1.00	PASS

Operating Frequency 6875-7125MHz:

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	Gain [dBi]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11AX20MIMO	Ant1	6895	-12.79	≤ -5.92	4.92	-7.87	≤ -1.00	PASS
	Ant2	6895	-12.42	≤ -5.92	4.92	-7.5	≤ -1.00	PASS
	total	6895	-9.59	≤ -8.94	7.94	-1.65	≤ -1.00	PASS
	Ant1	6995	-12.37	≤ -5.92	4.92	-7.45	≤ -1.00	PASS
	Ant2	6995	-12.21	≤ -5.92	4.92	-7.29	≤ -1.00	PASS
	total	6995	-9.28	≤ -8.94	7.94	-1.34	≤ -1.00	PASS
	Ant1	7115	-14.97	≤ -5.92	4.92	-10.05	≤ -1.00	PASS
	Ant2	7115	-10.67	≤ -5.92	4.92	-5.75	≤ -1.00	PASS
	total	7115	-9.3	≤ -8.94	7.94	-1.36	≤ -1.00	PASS

11AX40MIMO	Ant1	6925	-15.21	≤ -5.92	4.92	-7.92	≤ -1.00	PASS
	Ant2	6925	-12.93	≤ -5.92	4.92	-6.08	≤ -1.00	PASS
	total	6925	-10.91	≤ -8.94	7.94	-2.97	≤ -1.00	PASS
	Ant1	6965	-13.63	≤ -5.92	4.92	-6.9	≤ -1.00	PASS
	Ant2	6965	-11.74	≤ -5.92	4.92	-6.6	≤ -1.00	PASS
	total	6965	-9.57	≤ -8.94	7.94	-1.63	≤ -1.00	PASS
	Ant1	7085	-14.91	≤ -5.92	4.92	-9.99	≤ -1.00	PASS
	Ant2	7085	-10.89	≤ -5.92	4.92	-5.97	≤ -1.00	PASS
	total	7085	-9.44	≤ -8.94	7.94	-1.5	≤ -1.00	PASS
11AX80MIMO	Ant1	6945	-15.86	≤ -5.92	4.92	-8.45	≤ -1.00	PASS
	Ant2	6945	-12.77	≤ -5.92	4.92	-5.64	≤ -1.00	PASS
	total	6945	-11.04	≤ -8.94	7.94	-3.10	≤ -1.00	PASS
	Ant1	7025	-16.38	≤ -5.92	4.92	-11.46	≤ -1.00	PASS
	Ant2	7025	-10.55	≤ -5.92	4.92	-5.63	≤ -1.00	PASS
	total	7025	-9.54	≤ -8.94	7.94	-1.6	≤ -1.00	PASS

Test Graphs see Appendix C.

The Duty Cycle Factor is compensated in the Offset of graph.

7.6. In-Band Emissions (Mask)

7.6.1. Test Limit

15.407 b (7) For transmitters operating within the 5.925–7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

7.6.2. Test Procedure Used

KDB 987594 U-NII 6 GHz EMC Measurement v01v01

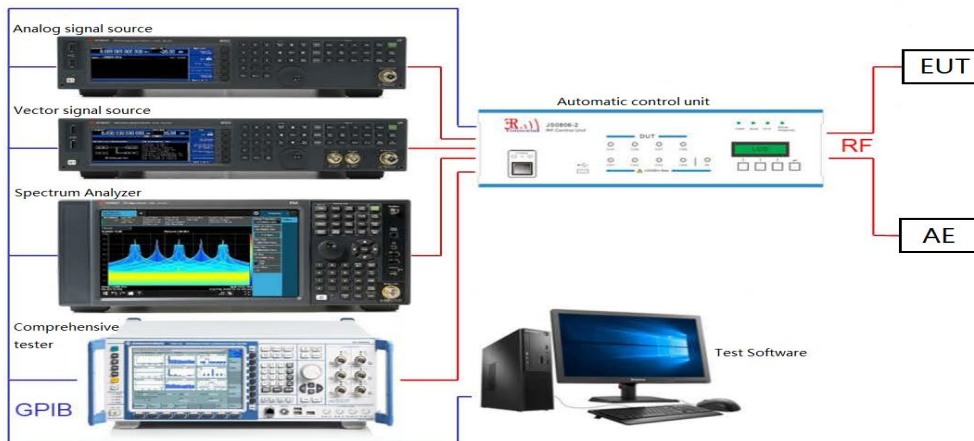
7.6.3. Test Setting

KDB 987594 Section J) In-Band Emissions (Mask Figure 5)

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:

- a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
- b. Suppressed by 28 dB at one channel bandwidth from the channel center.
- c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

7.6.4. Test Setup



7.6.5. Test Result

Operating Frequency 5925-6425MHz:

Test Mode	Antenna	Channel	Result	Limit	Verdict
11AX20MIMO	Ant1	5955	See test graph	See test graph	PASS
	Ant2	5955	See test graph	See test graph	PASS
	Ant1	6175	See test graph	See test graph	PASS
	Ant2	6175	See test graph	See test graph	PASS
	Ant1	6415	See test graph	See test graph	PASS

	Ant2	6415	See test graph	See test graph	PASS
11AX40MIMO	Ant1	5965	See test graph	See test graph	PASS
	Ant2	5965	See test graph	See test graph	PASS
	Ant1	6165	See test graph	See test graph	PASS
	Ant2	6165	See test graph	See test graph	PASS
	Ant1	6405	See test graph	See test graph	PASS
	Ant2	6405	See test graph	See test graph	PASS
11AX80MIMO	Ant1	5985	See test graph	See test graph	PASS
	Ant2	5985	See test graph	See test graph	PASS
	Ant1	6145	See test graph	See test graph	PASS
	Ant2	6145	See test graph	See test graph	PASS
	Ant1	6385	See test graph	See test graph	PASS
	Ant2	6385	See test graph	See test graph	PASS

Operating Frequency 6425-6525MHz:

Test Mode	Antenna	Channel	Result	Limit	Verdict
11AX20MIMO	Ant1	6435	See test graph	See test graph	PASS
	Ant2	6435	See test graph	See test graph	PASS
	Ant1	6475	See test graph	See test graph	PASS
	Ant2	6475	See test graph	See test graph	PASS

	Ant1	6515	See test graph	See test graph	PASS
	Ant2	6515	See test graph	See test graph	PASS
11AX40MIMO	Ant1	6445	See test graph	See test graph	PASS
	Ant2	6445	See test graph	See test graph	PASS
	Ant1	6485	See test graph	See test graph	PASS
	Ant2	6485	See test graph	See test graph	PASS
11AX80MIMO	Ant1	6465	See test graph	See test graph	PASS
	Ant2	6465	See test graph	See test graph	PASS

Operating Frequency 6525-6875MHz:

Test Mode	Antenna	Channel	Result	Limit	Verdict
11AX20MIMO	Ant1	6535	See test graph	See test graph	PASS
	Ant2	6535	See test graph	See test graph	PASS
	Ant1	6695	See test graph	See test graph	PASS
	Ant2	6695	See test graph	See test graph	PASS
	Ant1	6855	See test graph	See test graph	PASS
	Ant2	6855	See test graph	See test graph	PASS
11AX40MIMO	Ant1	6565	See test graph	See test graph	PASS
	Ant2	6565	See test graph	See test graph	PASS
	Ant1	6685	See test graph	See test graph	PASS

	Ant2	6685	See test graph	See test graph	PASS
	Ant1	6845	See test graph	See test graph	PASS
	Ant2	6845	See test graph	See test graph	PASS
11AX80MIMO	Ant1	6625	See test graph	See test graph	PASS
	Ant2	6625	See test graph	See test graph	PASS
	Ant1	6705	See test graph	See test graph	PASS
	Ant2	6705	See test graph	See test graph	PASS
	Ant1	6785	See test graph	See test graph	PASS
	Ant2	6785	See test graph	See test graph	PASS

Operating Frequency 6875-7125MHz:

Test Mode	Antenna	Channel	Result	Limit	Verdict
11AX20MIMO	Ant1	6895	See test graph	See test graph	PASS
	Ant2	6895	See test graph	See test graph	PASS
	Ant1	6995	See test graph	See test graph	PASS
	Ant2	6995	See test graph	See test graph	PASS
	Ant1	7115	See test graph	See test graph	PASS
	Ant2	7115	See test graph	See test graph	PASS
11AX40MIMO	Ant1	6925	See test graph	See test graph	PASS
	Ant2	6925	See test graph	See test graph	PASS

	Ant1	6965	See test graph	See test graph	PASS
	Ant2	6965	See test graph	See test graph	PASS
	Ant1	7085	See test graph	See test graph	PASS
	Ant2	7085	See test graph	See test graph	PASS
11AX80MIMO	Ant1	6945	See test graph	See test graph	PASS
	Ant2	6945	See test graph	See test graph	PASS
	Ant1	7025	See test graph	See test graph	PASS
	Ant2	7025	See test graph	See test graph	PASS

7.7. Contention Based Protocol

7.7.1. Test Limit

15.407 d (6) Indoor access points, subordinate devices and client devices operating in the 5.925–7.125 GHz band must employ a contention-based protocol.

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Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)¹. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal

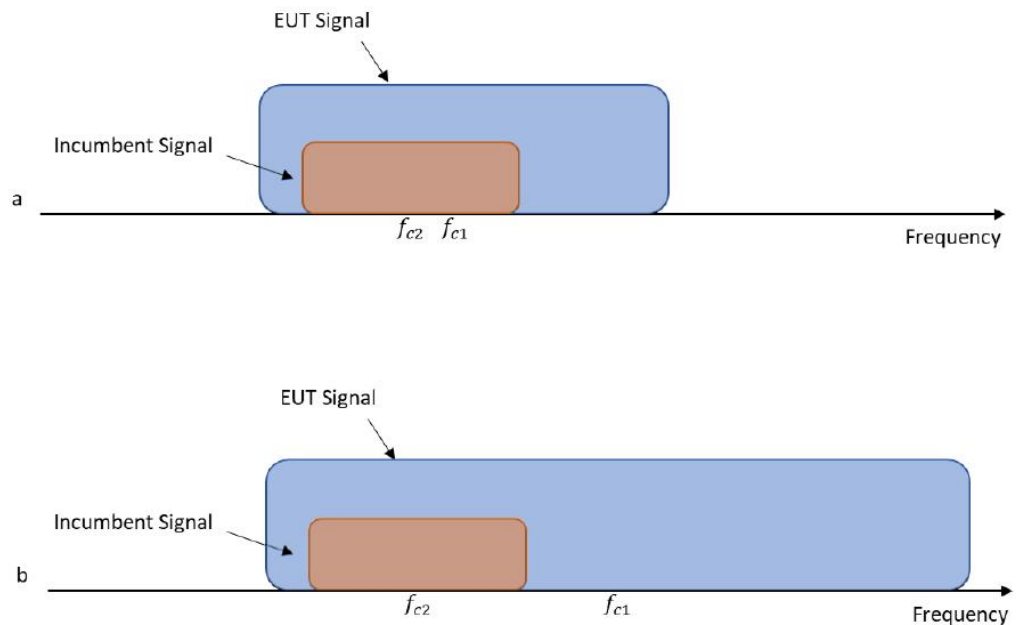


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

7.7.2. Test Procedure Used

KDB 987594 U-NII 6 GHz EMC Measurement v01v01

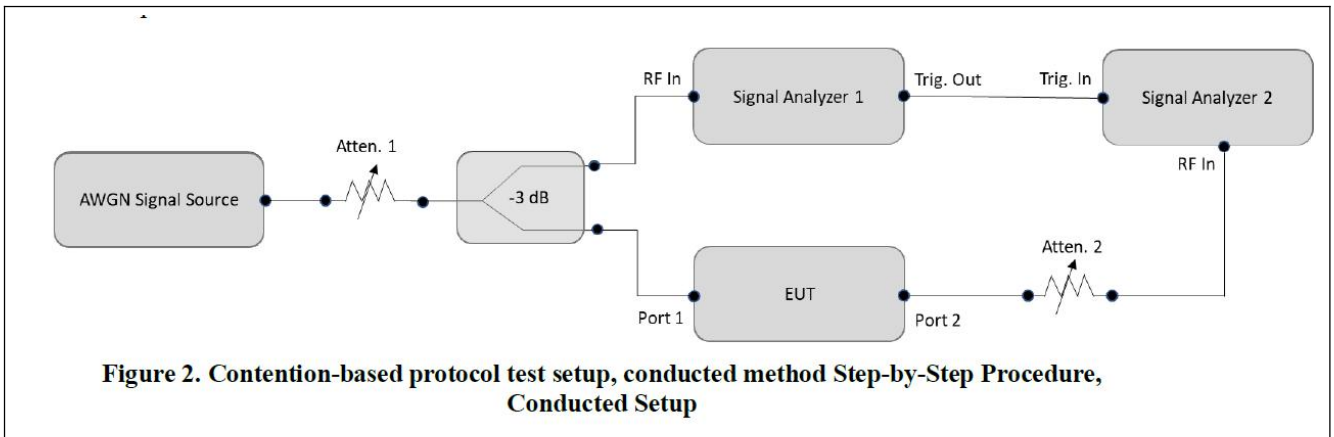
7.7.3. Test Setting

KDB 987594 Section I) Contention Based Protocol

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.

7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

7.7.4. Test Setup



7.7.5. Test Result

Band 5

Test Mode	Antenna	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power(dBm)	Detection Rate (%)	Adjusted Power Result (dBm)	Limit (dBm)	Margin (dB)
802.11ax-HE20	Ant1	6135	6135	-70.35	100	-74.32	-62	12.32
					Result: Stop Transmission			
				-77.68	<90	-81.32	-62	19.32
					Result: Minimal Operation			
				-78.68	0	-82.32	-62	20.32
					Result: Normal Operation			
802.11ax-HE80	Ant1	6145	6110	-67.12	100	-74.32	-62	12.32
					Result: Stop Transmission			
				-74.32	<90	-81.32	-62	19.32
					Result: Minimal Operation			
				-75.32	0	-82.32	-62	20.32
					Result: Normal Operation			
			6145	-66.15	100	-74.59	-62	12.59
					Result: Stop Transmission			
				-74.09	<90	-81.59	-62	19.59
					Result: Minimal Operation			
				-75.09	0	-82.59	-62	20.59
					Result: Normal Operation			
			6180	-66.21	100	-74.27	-62	12.27
					Result: Stop Transmission			
				-73.81	<90	-81.27	-62	19.27
					Result: Minimal Operation			
				-74.81	0	-82.27	-62	20.27
					Result: Normal Operation			

Note:

- Adjusted Power = Injected AWGN Power -minimum antenna gain 2.64dBi.
- Margin = Limit – Adjusted Power.
- All 6 GHz U-NII Band and antennas had been tested, but only the worst data was recorded in the report.

Band 6

Test Mode	Antenna	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power(dBm)	Detection Rate (%)	Adjusted Power Result (dBm)	Limit (dBm)	Margin (dB)
802.11ax-HE20	Ant1	6455	6455	-70.27	100	-74.32	-62	12.32
					Result: Stop Transmission			
				-77.20	<90	-81.32	-62	19.32
					Result: Minimal Operation			
				-78.20	0	-82.32	-62	20.32
					Result: Normal Operation			
802.11ax-HE80	Ant1	6465	6130	-66.25	100	-74.32	-62	12.32
					Result: Stop Transmission			
				-75.01	<90	-81.32	-62	19.32
					Result: Minimal Operation			
				-76.01	0	-82.32	-62	20.32
					Result: Normal Operation			
			6165	-65.96	100	-74.59	-62	12.59
					Result: Stop Transmission			
				-72.09	<90	-81.59	-62	19.59
					Result: Minimal Operation			
				-73.09	0	-82.59	-62	20.59
					Result: Normal Operation			
			6500	-66.08	100	-74.27	-62	12.27
					Result: Stop Transmission			
				-74.28	<90	-81.27	-62	19.27
					Result: Minimal Operation			
				-75.28	0	-82.27	-62	20.27
					Result: Normal Operation			

Note:

- 4) Adjusted Power = Injected AWGN Power -minimum antenna gain 1.93dBi.
- 5) Margin = Limit – Adjusted Power.
- 6) All 6 GHz U-NII Band and antennas had been tested, but only the worst data was recorded in the report.

Band 7

Test Mode	Antenna	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power(dBm)	Detection Rate (%)	Adjusted Power Result (dBm)	Limit (dBm)	Margin (dB)
802.11ax-HE20	Ant1	6695	6695	-70.21	100	-74.32	-62	12.32
					Result: Stop Transmission			
				-77.25	<90	-81.32	-62	19.32
					Result: Minimal Operation			
				-78.25	0	-82.32	-62	20.32
					Result: Normal Operation			
802.11ax-HE80	Ant1	6705	6670	-66.16	100	-74.32	-62	12.32
					Result: Stop Transmission			
				-73.18	<90	-81.32	-62	19.32
					Result: Minimal Operation			
				-74.18	0	-82.32	-62	20.32
					Result: Normal Operation			
			6705	-66.10	100	-74.59	-62	12.59
					Result: Stop Transmission			
				-73.86	<90	-81.59	-62	19.59
					Result: Minimal Operation			
				-74.86	0	-82.59	-62	20.59
					Result: Normal Operation			
			6740	-66.22	100	-74.27	-62	12.27
					Result: Stop Transmission			
				-74.73	<90	-81.27	-62	19.27
					Result: Minimal Operation			
				-75.73	0	-82.27	-62	20.27
					Result: Normal Operation			

Note:

- 7) Adjusted Power = Injected AWGN Power -minimum antenna gain 1.93dBi.
- 8) Margin = Limit – Adjusted Power.
- 9) All 6 GHz U-NII Band and antennas had been tested, but only the worst data was recorded in the report.

Band 8

Test Mode	Antenna	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power(dBm)	Detection Rate (%)	Adjusted Power Result (dBm)	Limit (dBm)	Margin (dB)
802.11ax-HE20	Ant1	7015	7015	-70.15	100	-74.32	-62	12.32
					Result: Stop Transmission			
				-76.	<90	-81.32	-62	19.32
					Result: Minimal Operation			
				-77.	0	-82.32	-62	20.32
					Result: Normal Operation			
802.11ax-HE80	Ant1	7025	6990	-66.19	100	-74.32	-62	12.32
					Result: Stop Transmission			
				-74.	<90	-81.32	-62	19.32
					Result: Minimal Operation			
				-75.	0	-82.32	-62	20.32
					Result: Normal Operation			
			7025	-66.06	100	-74.59	-62	12.59
					Result: Stop Transmission			
				-73.	<90	-81.59	-62	19.59
					Result: Minimal Operation			
				-74.	0	-82.59	-62	20.59
					Result: Normal Operation			
			7060	-66.16	100	-74.27	-62	12.27
					Result: Stop Transmission			
				-73.	<90	-81.27	-62	19.27
					Result: Minimal Operation			
				-74.	0	-82.27	-62	20.27
					Result: Normal Operation			

Note:

10) Adjusted Power = Injected AWGN Power -minimum antenna gain 1.93dBi.

11) Margin = Limit – Adjusted Power.

12) All 6 GHz U-NII Band and antennas had been tested, but only the worst data was recorded in the report.

Test Graphs see Appendix C.

7.8. Frequency Stability Measurement

7.8.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.8.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

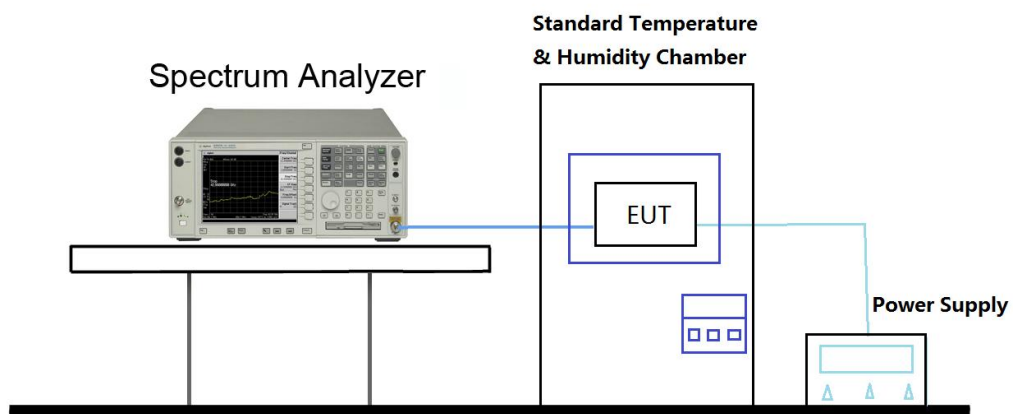
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.8.3. Test Setup



7.8.4. Test Result

Operating Frequency 5925-6425MHz:

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20MIMO	Ant1	5955	NV	NT	-40000.00	-6.717045	20	PASS
			LV	NT	-40000.00	-6.717045	20	PASS
			HV	NT	-40000.00	-6.717045	20	PASS
	Ant2	5955	NV	NT	-60000.00	-10.075567	20	PASS
			LV	NT	-80000.00	-13.434089	20	PASS
			HV	NT	-60000.00	-10.075567	20	PASS
	Ant1	6175	LV	NT	-80000.00	-12.955466	20	PASS
			HV	NT	-80000.00	-12.955466	20	PASS
			NV	NT	-80000.00	-12.955466	20	PASS
	Ant2	6175	NV	NT	-80000.00	-12.955466	20	PASS
			LV	NT	-80000.00	-12.955466	20	PASS
			HV	NT	-80000.00	-12.955466	20	PASS
	Ant1	6415	NV	NT	-80000.00	-12.470772	20	PASS
			LV	NT	-80000.00	-12.470772	20	PASS
			HV	NT	-80000.00	-12.470772	20	PASS
	Ant2	6415	NV	NT	-80000.00	-12.470772	20	PASS
			LV	NT	-80000.00	-12.470772	20	PASS
			HV	NT	-80000.00	-12.470772	20	PASS
11AX40MIMO	Ant1	5965	NV	NT	-40000.00	-6.705784	20	PASS
			LV	NT	-80000.00	-13.411567	20	PASS
			HV	NT	-80000.00	-13.411567	20	PASS
	Ant2	5965	NV	NT	-80000.00	-13.411567	20	PASS
			LV	NT	-40000.00	-6.705784	20	PASS
			HV	NT	-40000.00	-6.705784	20	PASS
	Ant1	6165	LV	NT	-40000.00	-6.705784	20	PASS
			NV	NT	120000.00	19.464720	20	PASS
			HV	NT	40000.00	6.488240	20	PASS
	Ant2	6165	LV	NT	-120000.00	-19.464720	20	PASS
			HV	NT	-120000.00	-19.464720	20	PASS
			NV	NT	0.00	0.000000	20	PASS
	Ant1	6405	NV	NT	-120000.00	-18.735363	20	PASS
			LV	NT	-120000.00	-18.735363	20	PASS

	Ant2	6405	HV	NT	-120000.00	-18.735363	20	PASS
			LV	NT	40000.00	6.245121	20	PASS
			HV	NT	-80000.00	-12.490242	20	PASS
			NV	NT	0.00	0.000000	20	PASS
11AX80MIMO	Ant1	5985	LV	NT	40000.00	6.245121	20	PASS
			HV	NT	-80000.00	-12.490242	20	PASS
			NV	NT	0.00	0.000000	20	PASS
	Ant2	5985	NV	NT	-80000.00	-13.366750	20	PASS
			LV	NT	80000.00	13.366750	20	PASS
			HV	NT	80000.00	13.366750	20	PASS
	Ant1	6145	HV	NT	-80000.00	-13.018714	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-13.018714	20	PASS
	Ant2	6145	NV	NT	-80000.00	-13.018714	20	PASS
			HV	NT	-80000.00	-13.018714	20	PASS
			LV	NT	-80000.00	-13.018714	20	PASS
	Ant1	6385	LV	NT	-80000.00	-12.529366	20	PASS
			HV	NT	-80000.00	-12.529366	20	PASS
			NV	NT	-80000.00	-12.529366	20	PASS
	Ant2	6385	LV	NT	-80000.00	-12.529366	20	PASS
			HV	NT	-80000.00	-12.529366	20	PASS
			NV	NT	0.00	0.000000	20	PASS

Operating Frequency 6425-6525MHz:

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20MIMO	Ant1	6435	LV	NT	-100000.00	-15.540016	20	PASS
			HV	NT	-100000.00	-15.540016	20	PASS
			NV	NT	-80000.00	-12.432012	20	PASS
	Ant2	6435	NV	NT	-100000.00	-15.540016	20	PASS
			LV	NT	-80000.00	-12.432012	20	PASS
			HV	NT	-80000.00	-12.432012	20	PASS
	Ant1	6475	HV	NT	-80000.00	-12.355212	20	PASS
			NV	NT	-80000.00	-12.355212	20	PASS
			LV	NT	-80000.00	-12.355212	20	PASS
	Ant2	6475	HV	NT	-80000.00	-12.355212	20	PASS
			NV	NT	-80000.00	-12.355212	20	PASS

	Ant1	6515	LV	NT	-100000.00	-15.444015	20	PASS
			NV	NT	-80000.00	-12.279355	20	PASS
			LV	NT	-80000.00	-12.279355	20	PASS
			HV	NT	-80000.00	-12.279355	20	PASS
	Ant2	6515	LV	NT	-80000.00	-12.279355	20	PASS
			NV	NT	-80000.00	-12.279355	20	PASS
			HV	NT	-80000.00	-12.279355	20	PASS
11AX40MIMO	Ant1	6445	LV	NT	-80000.00	-12.412723	20	PASS
			HV	NT	-80000.00	-12.412723	20	PASS
			NV	NT	-80000.00	-12.412723	20	PASS
	Ant2	6445	NV	NT	-80000.00	-12.412723	20	PASS
			LV	NT	-80000.00	-12.412723	20	PASS
			HV	NT	-80000.00	-12.412723	20	PASS
	Ant1	6485	HV	NT	-120000.00	-18.504241	20	PASS
			NV	NT	-120000.00	-18.504241	20	PASS
			LV	NT	-80000.00	-12.336160	20	PASS
	Ant2	6485	HV	NT	-80000.00	-12.336160	20	PASS
			NV	NT	-120000.00	-18.504241	20	PASS
			LV	NT	-80000.00	-12.336160	20	PASS
11AX80MIMO	Ant1	6465	NV	NT	-80000.00	-12.374323	20	PASS
			LV	NT	-80000.00	-12.374323	20	PASS
			HV	NT	-80000.00	-12.374323	20	PASS
	Ant2	6465	HV	NT	-80000.00	-12.374323	20	PASS
			NV	NT	-80000.00	-12.374323	20	PASS
			LV	NT	-80000.00	-12.374323	20	PASS

Operating Frequency 6525-6875MHz:

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20MIMO	Ant1	6535	LV	NT	-100000.00	-15.302219	20	PASS
			HV	NT	-100000.00	-15.302219	20	PASS
			NV	NT	-120000.00	-18.362663	20	PASS
	Ant2	6535	NV	NT	-80000.00	-12.241775	20	PASS
			LV	NT	-80000.00	-12.241775	20	PASS
			HV	NT	-100000.00	-15.302219	20	PASS
	Ant1	6695	NV	NT	-80000.00	-11.949216	20	PASS
			LV	NT	-80000.00	-11.949216	20	PASS

	Ant2	6695	HV	NT	-80000.00	-11.949216	20	PASS
			NV	NT	-100000.00	-14.936520	20	PASS
			LV	NT	-80000.00	-11.949216	20	PASS
			HV	NT	-80000.00	-11.949216	20	PASS
	Ant1	6855	NV	NT	-100000.00	-14.587892	20	PASS
			LV	NT	-80000.00	-11.670314	20	PASS
			HV	NT	-80000.00	-11.670314	20	PASS
	Ant2	6855	NV	NT	-100000.00	-14.587892	20	PASS
			LV	NT	-120000.00	-17.505470	20	PASS
			HV	NT	-80000.00	-11.670314	20	PASS
11AX40MIMO	Ant1	6565	NV	NT	-80000.00	-12.185834	20	PASS
			LV	NT	40000.00	6.092917	20	PASS
			HV	NT	40000.00	6.092917	20	PASS
	Ant2	6565	NV	NT	-40000.00	-6.092917	20	PASS
			HV	NT	-40000.00	-6.092917	20	PASS
			LV	NT	-40000.00	-6.092917	20	PASS
	Ant1	6685	HV	NT	-120000.00	-17.950636	20	PASS
			NV	NT	-120000.00	-17.950636	20	PASS
			LV	NT	-80000.00	-11.967091	20	PASS
	Ant2	6685	NV	NT	-40000.00	-5.983545	20	PASS
			HV	NT	-120000.00	-17.950636	20	PASS
			LV	NT	-40000.00	-5.983545	20	PASS
	Ant1	6845	LV	NT	-40000.00	-5.843682	20	PASS
			HV	NT	-120000.00	-17.531045	20	PASS
			NV	NT	120000.00	17.531045	20	PASS
	Ant2	6845	LV	NT	80000.00	11.687363	20	PASS
			HV	NT	80000.00	11.687363	20	PASS
			NV	NT	40000.00	5.843682	20	PASS
11AX80MIMO	Ant1	6625	NV	NT	-80000.00	-12.075472	20	PASS
			LV	NT	-80000.00	-12.075472	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	6625	LV	NT	-80000.00	-12.075472	20	PASS
			HV	NT	-80000.00	-12.075472	20	PASS
			NV	NT	0.00	0.000000	20	PASS
	Ant1	6705	NV	NT	-80000.00	-11.931394	20	PASS
			LV	NT	-80000.00	-11.931394	20	PASS
			HV	NT	-80000.00	-11.931394	20	PASS

	Ant2	6705	LV	NT	-80000.00	-11.931394	20	PASS
			HV	NT	-80000.00	-11.931394	20	PASS
			NV	NT	-80000.00	-11.931394	20	PASS
	Ant1	6785	NV	NT	-80000.00	-11.790715	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	6785	NV	NT	-80000.00	-11.790715	20	PASS
			LV	NT	-80000.00	-11.790715	20	PASS
			HV	NT	-80000.00	-11.790715	20	PASS

Operating Frequency 6875-7125MHz:

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20MIMO	Ant1	6895	NV	NT	-100000.00	-14.503263	20	PASS
			LV	NT	-100000.00	-14.503263	20	PASS
			HV	NT	-120000.00	-17.403916	20	PASS
	Ant2	6895	NV	NT	-100000.00	-14.503263	20	PASS
			LV	NT	-120000.00	-17.403916	20	PASS
			HV	NT	-100000.00	-14.503263	20	PASS
	Ant1	6995	NV	NT	-120000.00	-17.155111	20	PASS
			LV	NT	-100000.00	-14.295926	20	PASS
			HV	NT	-100000.00	-14.295926	20	PASS
	Ant2	6995	NV	NT	-100000.00	-14.295926	20	PASS
			LV	NT	-80000.00	-11.436741	20	PASS
			HV	NT	-80000.00	-11.436741	20	PASS
	Ant1	7115	NV	NT	-80000.00	-11.243851	20	PASS
			LV	NT	-120000.00	-16.865777	20	PASS
			HV	NT	-120000.00	-16.865777	20	PASS
	Ant2	7115	NV	NT	-80000.00	-11.243851	20	PASS
			LV	NT	-80000.00	-11.243851	20	PASS
			HV	NT	-100000.00	-14.054814	20	PASS
11AX40MIMO	Ant1	6925	NV	NT	-80000.00	-11.552347	20	PASS
			LV	NT	-120000.00	-17.328520	20	PASS
			HV	NT	-80000.00	-11.552347	20	PASS
	Ant2	6925	LV	NT	-120000.00	-17.328520	20	PASS
			HV	NT	-120000.00	-17.328520	20	PASS
			NV	NT	-120000.00	-17.328520	20	PASS

	Ant1	6965	NV	NT	-120000.00	-17.229002	20	PASS
			LV	NT	-120000.00	-17.229002	20	PASS
			HV	NT	-120000.00	-17.229002	20	PASS
	Ant2	6965	NV	NT	-80000.00	-11.486001	20	PASS
			LV	NT	-80000.00	-11.486001	20	PASS
			HV	NT	-80000.00	-11.486001	20	PASS
	Ant1	7085	LV	NT	-40000.00	-5.645730	20	PASS
			NV	NT	-40000.00	-5.645730	20	PASS
			HV	NT	-40000.00	-5.645730	20	PASS
	Ant2	7085	HV	NT	-80000.00	-11.291461	20	PASS
			LV	NT	-120000.00	-16.937191	20	PASS
			NV	NT	-120000.00	-16.937191	20	PASS
11AX80MIMO	Ant1	6945	HV	NT	-80000.00	-11.519078	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant2	6945	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-11.519078	20	PASS
			HV	NT	-80000.00	-11.519078	20	PASS
	Ant1	7025	LV	NT	-80000.00	-11.387900	20	PASS
			HV	NT	-80000.00	-11.387900	20	PASS
			NV	NT	-80000.00	-11.387900	20	PASS
	Ant2	7025	NV	NT	-80000.00	-11.387900	20	PASS
			LV	NT	-80000.00	-11.387900	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Note:

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} * 10⁶.

7.9. Radiated Spurious Emission Measurement and Radiated Restricted Band Edge Measurement

7.9.1. Test Limit

15.407 b (6) For transmitters operating within the 5.925–7.125 GHz band: Any emissions outside of the 5.925–7.125 GHz band must not exceed an e.i.r.p. of –27 dBm/MHz.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.9.2. Test Procedure Used

KDB 789033 D02v02r01 – Section G

ANSI C63.10-2013 – Section 12.7.7.2, 12.7.7.6, 12.7.5

7.9.3. Test Setting

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Quasi-Peak Measurements below 1GHz

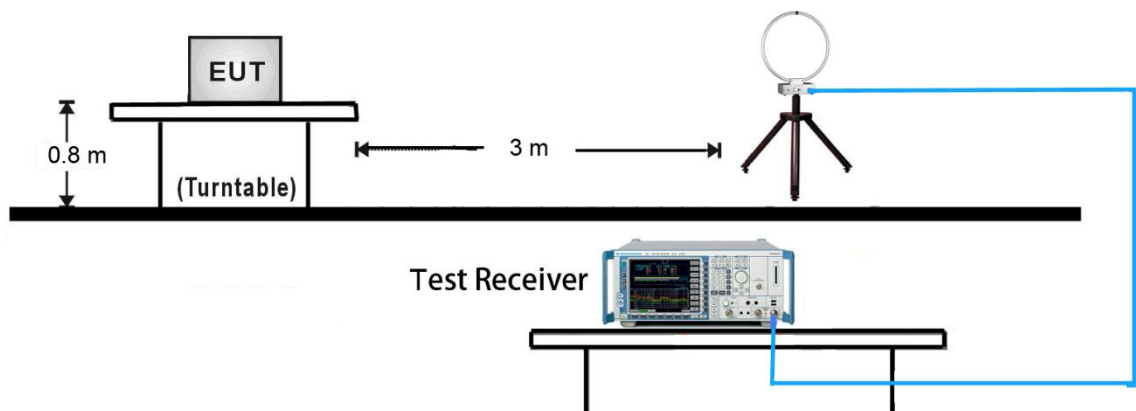
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

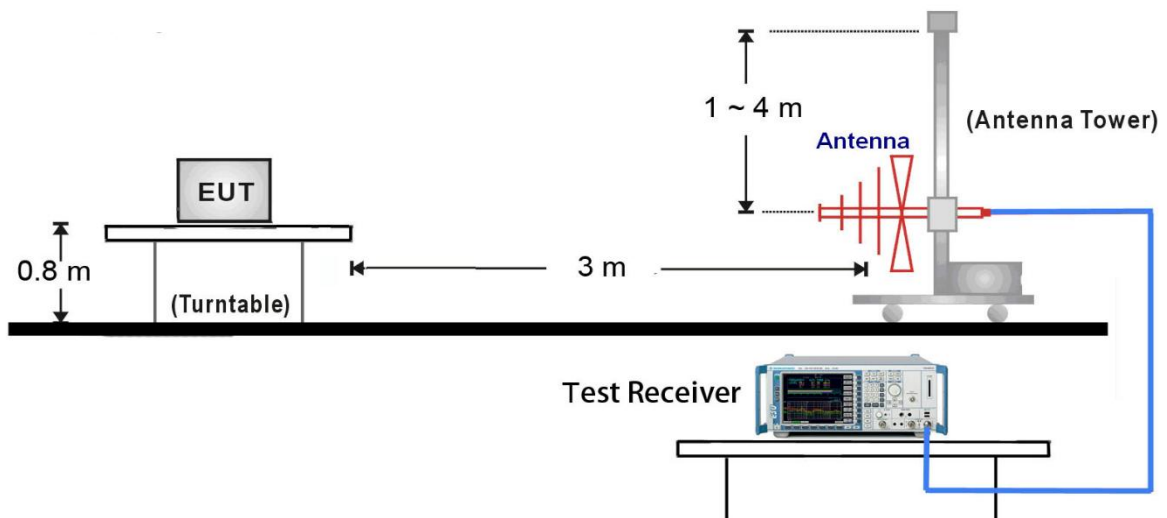
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span}/\text{RBW}$)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

7.9.4. Test Setup

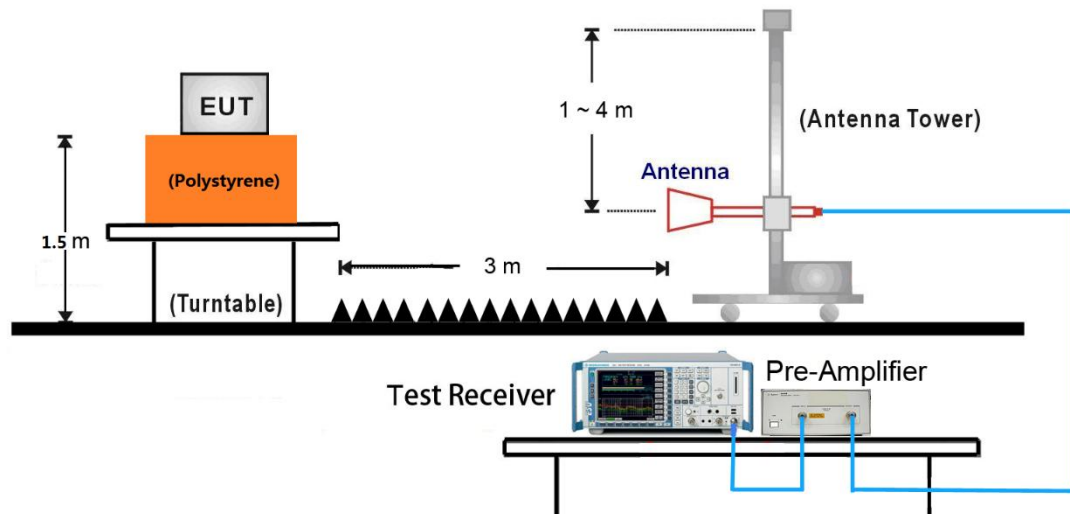
9kHz ~ 30MHz Test Setup:



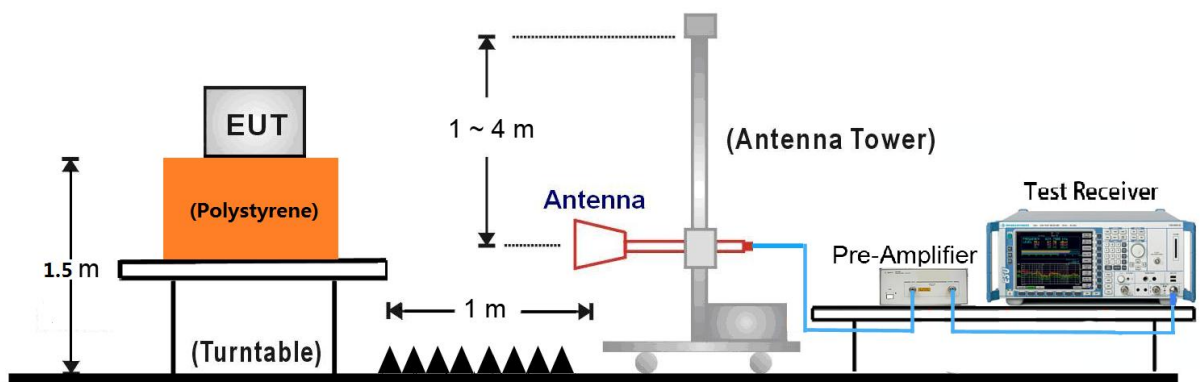
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 40GHz Test Setup:



7.9.5. Test Result

The Conducted Spurious Emission test data:

Operating Frequency 5925-6425MHz:

Test Mode	Antenna	Channel	Frequency Range [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant1	5955	30~3000	2974.16	-45.24	≤-27	PASS
			3000~10000	3867.07	-44.47	≤-27	PASS
			10000~40000	38850	-37.94	≤-27	PASS
	Ant2	5955	30~3000	2681.32	-45.15	≤-27	PASS
			3000~10000	3767.67	-44.66	≤-27	PASS
			10000~40000	38818	-38.22	≤-27	PASS
	Ant1	6175	30~3000	2672.41	-44.93	≤-27	PASS
			3000~10000	3805.47	-44.29	≤-27	PASS
			10000~40000	38906	-36.84	≤-27	PASS
	Ant2	6175	30~3000	2682.71	-43.11	≤-27	PASS
			3000~10000	3838.6	-44.47	≤-27	PASS
			10000~40000	38087	-37.24	≤-27	PASS
	Ant1	6415	30~3000	2406	-44.38	≤-27	PASS
			3000~10000	3837.9	-43.85	≤-27	PASS
			10000~40000	38158	-38.21	≤-27	PASS
	Ant2	6415	30~3000	2989.41	-45.51	≤-27	PASS
			3000~10000	3903.23	-43.93	≤-27	PASS
11AX40MIMO	Ant1	5965	30~3000	1939.31	-44.59	≤-27	PASS
			3000~10000	3919.8	-44.61	≤-27	PASS
			10000~40000	38949	-38.12	≤-27	PASS
	Ant2	5965	30~3000	2496.29	-45.63	≤-27	PASS
			3000~10000	3820.87	-44.25	≤-27	PASS
			10000~40000	39000	-37.38	≤-27	PASS
	Ant1	6165	30~3000	2947.83	-45.17	≤-27	PASS
	Ant2	6165	30~3000	2507.67	-44.68	≤-27	PASS
			3000~10000	5185.63	-42.16	≤-27	PASS
			10000~40000	38101	-37.59	≤-27	PASS
	Ant1	6405	30~3000	2621.82	-45.52	≤-27	PASS
			3000~10000	5235.8	-43.05	≤-27	PASS
			10000~40000	34854	-37.42	≤-27	PASS
	Ant2	6405	30~3000	2706.86	-45.01	≤-27	PASS

			3000~10000	3777	-44.71	≤ -27	PASS
			10000~40000	38060	-38.42	≤ -27	PASS
11AX80MIMO	Ant1	5985	30~3000	2681.22	-45.43	≤ -27	PASS
			3000~10000	4574.3	-38.29	≤ -27	PASS
			10000~40000	38958	-37.99	≤ -27	PASS
	Ant2	5985	30~3000	2979.11	-45.33	≤ -27	PASS
			3000~10000	3795.67	-44.55	≤ -27	PASS
			10000~40000	38127	-37.86	≤ -27	PASS
	Ant1	6145	30~3000	2643.8	-44.94	≤ -27	PASS
			3000~10000	3785.87	-43.49	≤ -27	PASS
			10000~40000	38926	-37.3	≤ -27	PASS
	Ant2	6145	30~3000	1936.54	-43.82	≤ -27	PASS
			3000~10000	3955.97	-44.55	≤ -27	PASS
			10000~40000	38985	-36.77	≤ -27	PASS
	Ant1	6385	30~3000	1938.32	-44.98	≤ -27	PASS
			3000~10000	3805.47	-43.95	≤ -27	PASS
			10000~40000	39029	-37.96	≤ -27	PASS
	Ant2	6385	30~3000	2662.21	-45.49	≤ -27	PASS
			3000~10000	4541.63	-42.42	≤ -27	PASS
			10000~40000	38721	-38.16	≤ -27	PASS

Operating Frequency 6425-6525MHz:

Test Mode	Antenna	Channel	Frequency Range [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant1	6435	30~3000	2651.62	-45.47	≤ -27	PASS
			3000~10000	3809.67	-44.18	≤ -27	PASS
			10000~40000	38891	-38.01	≤ -27	PASS
	Ant2	6435	30~3000	2657.96	-44.01	≤ -27	PASS
			3000~10000	3813.63	-44.47	≤ -27	PASS
			10000~40000	38888	-37.27	≤ -27	PASS
	Ant1	6475	30~3000	2532.32	-45.53	≤ -27	PASS
			3000~10000	3805.23	-44.01	≤ -27	PASS
			10000~40000	37998	-38.26	≤ -27	PASS
	Ant2	6475	30~3000	2608.65	-44.75	≤ -27	PASS
			3000~10000	3771.17	-43.92	≤ -27	PASS
			10000~40000	38117	-38.12	≤ -27	PASS

	Ant1	6515	30~3000	2406.4	-45.33	≤-27	PASS
			3000~10000	3779.33	-42.9	≤-27	PASS
			10000~40000	38943	-38.27	≤-27	PASS
	Ant2	6515	30~3000	2823.19	-44.32	≤-27	PASS
			3000~10000	3873.83	-44.81	≤-27	PASS
			10000~40000	38861	-37.38	≤-27	PASS
11AX40MIMO	Ant1	6445	30~3000	2660.33	-44.92	≤-27	PASS
			3000~10000	3869.17	-45.09	≤-27	PASS
			10000~40000	38945	-38.63	≤-27	PASS
	Ant2	6445	30~3000	2687.75	-45.4	≤-27	PASS
			3000~10000	3896.47	-44.14	≤-27	PASS
			10000~40000	38175	-37.76	≤-27	PASS
	Ant1	6485	30~3000	2900.6	-45.29	≤-27	PASS
			3000~10000	3781.43	-44.19	≤-27	PASS
			10000~40000	37128	-38.7	≤-27	PASS
	Ant2	6485	30~3000	2811.01	-44.6	≤-27	PASS
			3000~10000	3769.53	-44.55	≤-27	PASS
			10000~40000	35388	-38.77	≤-27	PASS
11AX80MIMO	Ant1	6465	30~3000	2619.25	-45.37	≤-27	PASS
			3000~10000	5023.47	-44.95	≤-27	PASS
			10000~40000	38931	-37.92	≤-27	PASS
	Ant2	6465	30~3000	1937.93	-42.14	≤-27	PASS
			3000~10000	3867.77	-44.49	≤-27	PASS
			10000~40000	38920	-37.62	≤-27	PASS

Operating Frequency 6525-6875MHz:

Test Mode	Antenna	Channel	Frequency Range [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant1	6535	30~3000	2952.88	-44.12	≤-27	PASS
			3000~10000	8973.1	-43.93	≤-27	PASS
			10000~40000	38943	-37.99	≤-27	PASS
	Ant2	6535	30~3000	2662.41	-44.66	≤-27	PASS
			3000~10000	3701.17	-43.68	≤-27	PASS
			10000~40000	39003	-36.97	≤-27	PASS
	Ant1	6695	30~3000	2668.55	-44.74	≤-27	PASS
			3000~10000	3781.67	-44.62	≤-27	PASS

	Ant2	6695	10000~40000	38019	-38.09	≤ -27	PASS
			30~3000	2689.83	-44.52	≤ -27	PASS
			3000~10000	3803.13	-44.12	≤ -27	PASS
			10000~40000	37831	-37.83	≤ -27	PASS
	Ant1	6855	30~3000	2630.24	-44.83	≤ -27	PASS
			3000~10000	3811.53	-43.94	≤ -27	PASS
			10000~40000	38980	-38.17	≤ -27	PASS
	Ant2	6855	30~3000	2670.53	-45.52	≤ -27	PASS
			3000~10000	3765.33	-44.24	≤ -27	PASS
			10000~40000	38802	-38.01	≤ -27	PASS
11AX40MIMO	Ant1	6565	30~3000	2990.69	-44.23	≤ -27	PASS
			3000~10000	3743.4	-44.36	≤ -27	PASS
			10000~40000	38633	-37.44	≤ -27	PASS
	Ant2	6565	30~3000	2568.56	-44.9	≤ -27	PASS
			3000~10000	3787.27	-44.16	≤ -27	PASS
			10000~40000	35817	-37.66	≤ -27	PASS
	Ant1	6685	30~3000	2768.64	-44.12	≤ -27	PASS
			3000~10000	5104.9	-44.12	≤ -27	PASS
			10000~40000	38888	-37.29	≤ -27	PASS
	Ant2	6685	30~3000	2933.67	-44.56	≤ -27	PASS
			3000~10000	4598.33	-42.43	≤ -27	PASS
			10000~40000	38763	-37.86	≤ -27	PASS
	Ant1	6845	30~3000	2548.76	-45.29	≤ -27	PASS
			3000~10000	3796.6	-43.74	≤ -27	PASS
			10000~40000	38879	-37.72	≤ -27	PASS
	Ant2	6845	30~3000	2960.4	-44	≤ -27	PASS
			3000~10000	3819.47	-44.67	≤ -27	PASS
			10000~40000	38505	-37.75	≤ -27	PASS
11AX80MIMO	Ant1	6625	30~3000	2792.69	-44.55	≤ -27	PASS
			3000~10000	4599.97	-41.87	≤ -27	PASS
			10000~40000	38238	-37.43	≤ -27	PASS
	Ant2	6625	30~3000	2803.78	-44.68	≤ -27	PASS
			3000~10000	3812.93	-43.96	≤ -27	PASS
			10000~40000	38868	-37.6	≤ -27	PASS
	Ant1	6705	30~3000	2985.74	-44.89	≤ -27	PASS
			3000~10000	3717.73	-43.79	≤ -27	PASS
			10000~40000	38131	-37.97	≤ -27	PASS

	Ant2	6705	30~3000	1938.92	-44.7	≤-27	PASS
			3000~10000	3829.97	-44.05	≤-27	PASS
			10000~40000	38938	-38.04	≤-27	PASS
	Ant1	6785	30~3000	2645.28	-44.93	≤-27	PASS
			3000~10000	3862.17	-44.13	≤-27	PASS
			10000~40000	38991	-37.6	≤-27	PASS
	Ant2	6785	30~3000	2768.64	-44.48	≤-27	PASS
			3000~10000	3783.77	-43.86	≤-27	PASS
			10000~40000	38926	-37.71	≤-27	PASS

Operating Frequency 6875-7125MHz:

Test Mode	Antenna	Channel	Frequency Range [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant1	6895	30~3000	2748.84	-45.27	≤-27	PASS
			3000~10000	3717.73	-43.86	≤-27	PASS
			10000~40000	38847	-38.15	≤-27	PASS
	Ant2	6895	30~3000	2954.16	-44.34	≤-27	PASS
			3000~10000	3854.23	-44.77	≤-27	PASS
			10000~40000	38119	-37.65	≤-27	PASS
	Ant1	6995	30~3000	2607.86	-45.46	≤-27	PASS
			3000~10000	3768.37	-44.68	≤-27	PASS
			10000~40000	38862	-38.1	≤-27	PASS
	Ant2	6995	30~3000	2643.9	-45.18	≤-27	PASS
			3000~10000	3886.9	-44.47	≤-27	PASS
			10000~40000	38031	-37.73	≤-27	PASS
	Ant1	7115	30~3000	2485.2	-44.54	≤-27	PASS
			3000~10000	3822.97	-44.51	≤-27	PASS
			10000~40000	38763	-38.31	≤-27	PASS
	Ant2	7115	30~3000	2659.74	-45.39	≤-27	PASS
			3000~10000	3828.1	-43.93	≤-27	PASS
			10000~40000	38620	-37.61	≤-27	PASS
11AX40MIMO	Ant1	6925	30~3000	2635.68	-44.81	≤-27	PASS
			3000~10000	3742	-44.47	≤-27	PASS
			10000~40000	38819	-38.5	≤-27	PASS
	Ant2	6925	30~3000	2517.57	-44.88	≤-27	PASS
			3000~10000	3848.4	-43.54	≤-27	PASS

	Ant1	6965	10000~40000	38966	-38.24	≤ -27	PASS
			30~3000	2480.15	-45.72	≤ -27	PASS
			3000~10000	3864.27	-44.63	≤ -27	PASS
			10000~40000	38796	-38.56	≤ -27	PASS
	Ant2	6965	30~3000	2957.43	-44.73	≤ -27	PASS
			3000~10000	3734.77	-44.79	≤ -27	PASS
			10000~40000	38134	-37.49	≤ -27	PASS
	Ant1	7085	30~3000	2648.35	-44.87	≤ -27	PASS
			3000~10000	3819	-44.53	≤ -27	PASS
			10000~40000	38897	-38.09	≤ -27	PASS
	Ant2	7085	30~3000	2714.19	-44.72	≤ -27	PASS
			3000~10000	5238.83	-42.18	≤ -27	PASS
			10000~40000	35699	-37.88	≤ -27	PASS
11AX80MIMO	Ant1	6945	30~3000	2973.86	-45.5	≤ -27	PASS
			3000~10000	3794.27	-45.23	≤ -27	PASS
			10000~40000	38969	-37.34	≤ -27	PASS
	Ant2	6945	30~3000	2563.21	-45.55	≤ -27	PASS
			3000~10000	3843.27	-44.79	≤ -27	PASS
			10000~40000	36700	-37.87	≤ -27	PASS
	Ant1	7025	30~3000	2983.47	-45.26	≤ -27	PASS
			3000~10000	3770.93	-43.93	≤ -27	PASS
			10000~40000	38894	-37.97	≤ -27	PASS
	Ant2	7025	30~3000	2714.29	-44.57	≤ -27	PASS
			3000~10000	3815.73	-44.03	≤ -27	PASS
			10000~40000	38995	-37.93	≤ -27	PASS

Test Graphs see Appendix C

The radiated spurious emission and Band Edge test data see Appendix D.

7.10. AC Conducted Emissions Measurement

7.10.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

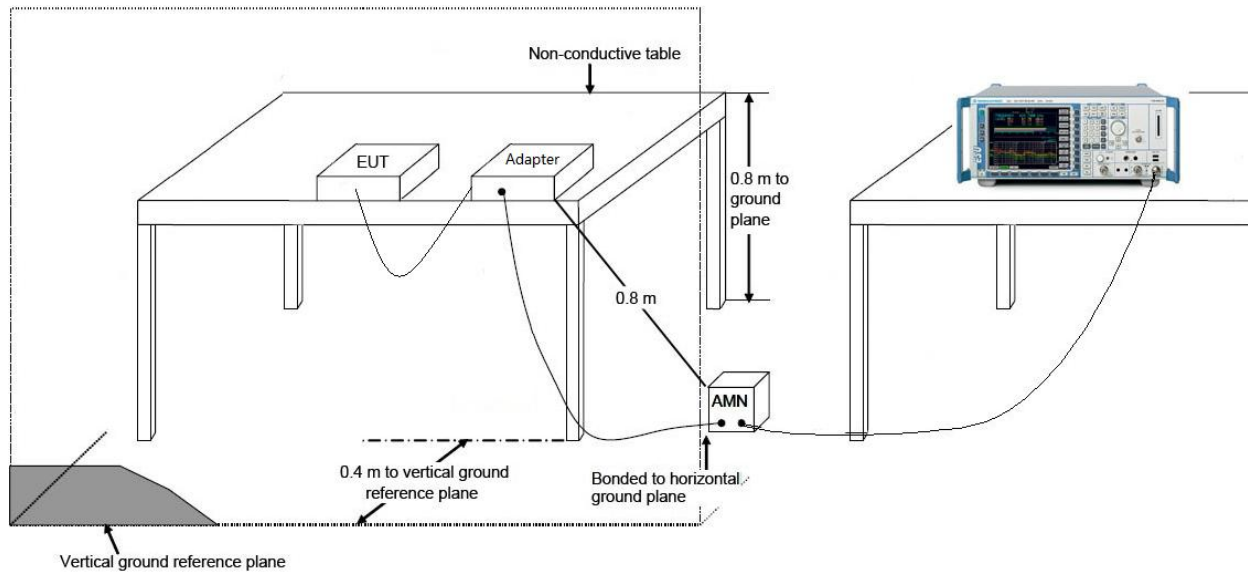
7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4: 2014 and tested according to ANSI C63.10:2013 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.10.3. Test Setup



7.10.4. Test Result

The product is DC powered. Not applicable.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **WiFi module** is in compliance with Part 15E of the FCC Rules.

_____ The End _____