



# FCC RF Test Report

**APPLICANT** : Jungle King LLC  
**EQUIPMENT** : Digital Media Receiver  
**MODEL NAME** : BV84J9  
**FCC ID** : 2A8FA-6743  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure  
**TEST DATE(S)** : Aug. 09, 2023 ~ Aug. 21, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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**APPENDIX A. CONDUCTED TEST RESULTS**

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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR330311-01E	Rev. 01	Initial issue of report	Aug. 30, 2023



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 6.06 dB at 5944.00 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 20.07 dB at 0.393 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Jungle King LLC  
919 E. Main Street, Suite 1000, Richmond, Virginia 23219

## 1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	BV84J9
FCC ID	2A8FA-6743
SN	Conducted: 2304260180000GSD Conduction: CN42ML033254007S Radiation: GN42ML033254007D

## 1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power	<5745 MHz ~ 5825 MHz> 802.11a : 18.12 dBm / 0.0649 W 802.11n HT20 : 16.05 dBm / 0.0403 W 802.11n HT40 : 16.18 dBm / 0.0415 W 802.11ac VHT20: 16.23 dBm / 0.0420 W 802.11ac VHT40: 16.31 dBm / 0.0428 W 802.11ac VHT80: 15.91 dBm / 0.0390 W
99% Occupied Bandwidth	802.11a : 17.13 MHz 802.11ac VHT20 : 17.73 MHz 802.11ac VHT40 : 36.36 MHz 802.11ac VHT80 : 75.28 MHz
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
Antenna Type / Gain	PIFA Antenna with gain 5.0 dBi

Note: For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11ac VHT20/VHT40 by referring to their maximum conducted power.

## 1.4 Modification of EUT

No modifications are made to the EUT during all test items.



### 1.5 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People’s Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS 03CH06-KS TH01-KS DFS01-KS	CN1257	314309

### 1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	03CH06-KS	AUDIX	E3	210616
3.	CO01-KS	R&S	EMC32	10.60.20
4.	DFS01-KS	Sporton	Test Tools	1.0

### 1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

**Note:**

- 1. The above Frequency and Channel in "\*" were 802.11n HT40 and 802.11ac VHT40.
- 2. The above Frequency and Channel in "#n" were 802.11ac VHT80.

### 2.2 Test Mode

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

Modulation	Data Rate
802.11a	6 Mbps
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

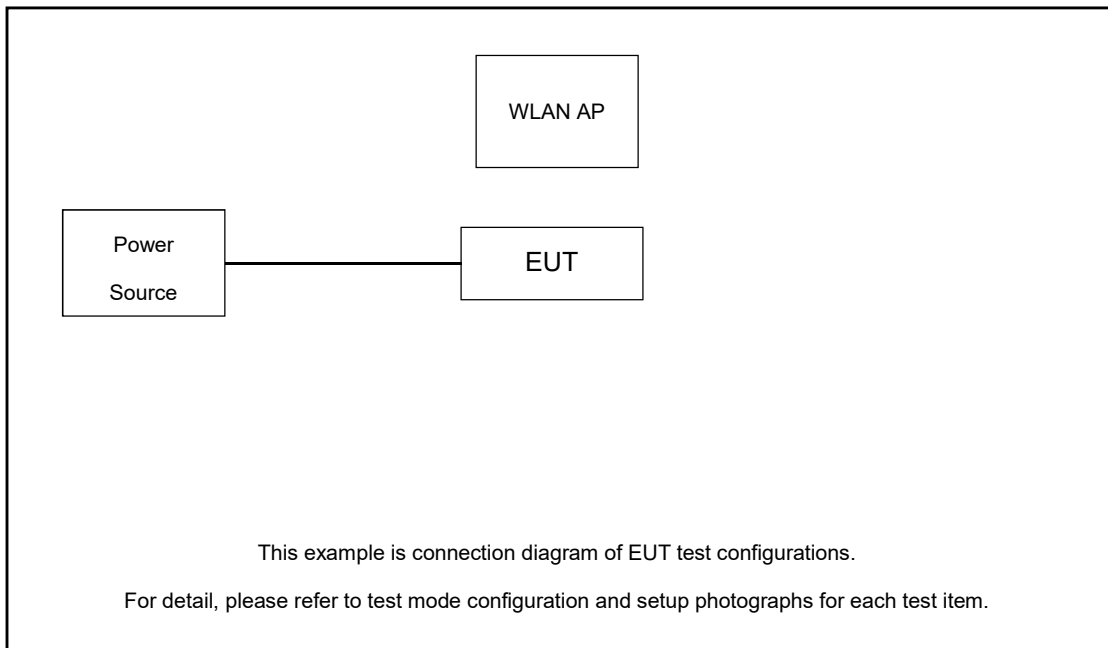
<b>AC Conducted Emission</b>	Mode 1 : WIFI(5G) Link + Adapter 1 US
<b>Remark:</b> For Radiated Test Cases, The tests were performed with Adapter 1 US.	

Ch. #		U-NII-3 : 5745-5825 MHz			
		802.11a	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

**Remark:** For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

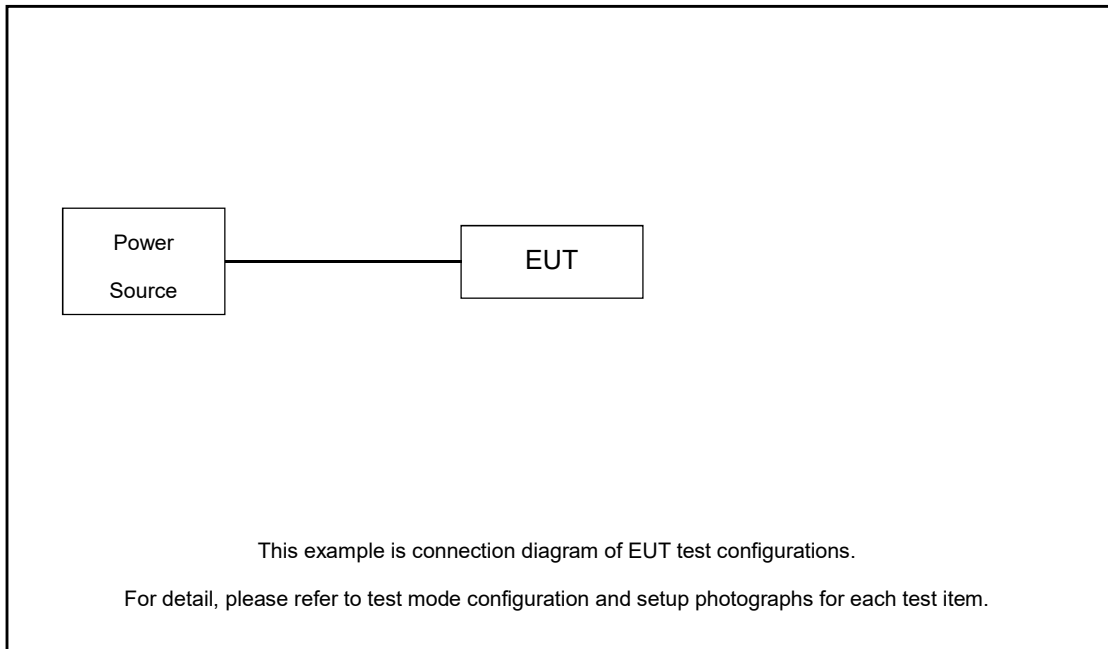
### 2.3 Connection Diagram of Test System

For Conducted Emission:





For Radiated Emission:



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	DIR-655	KA21R655B1	N/A	Unshielded, 1.8m

## 2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.



## 2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss.

*Offset = RF cable loss.*

Following shows an offset computation example with cable loss 7.0 dB.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 7.0 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

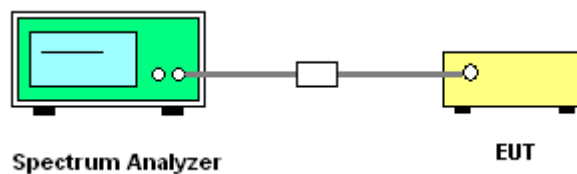
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

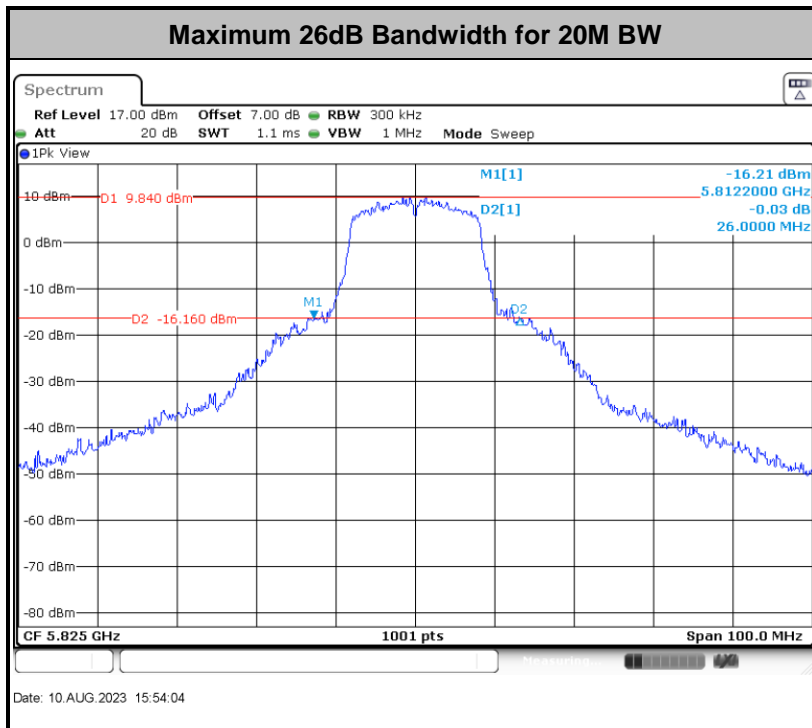
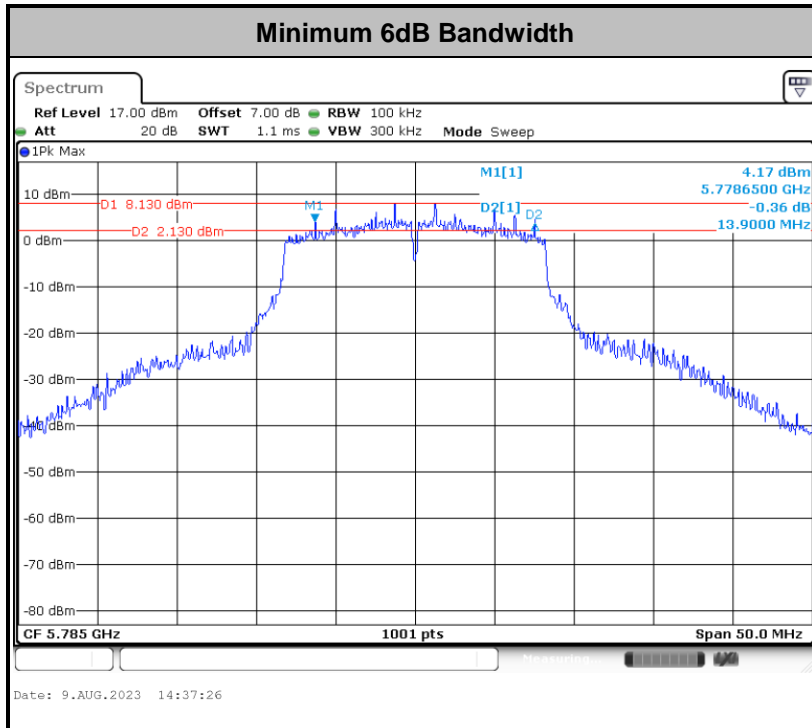
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. For 6dB BW, Set RBW = 100kHz.  
For 26dB BW, Set RBW = approximately 1% of the emission bandwidth.  
For 99% OBW, Set RBW = 1% to 5% of the OBW.
3. For 26dB BW, Set the VBW > RBW.  
For 6dB BW & 99% OBW, Set the VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

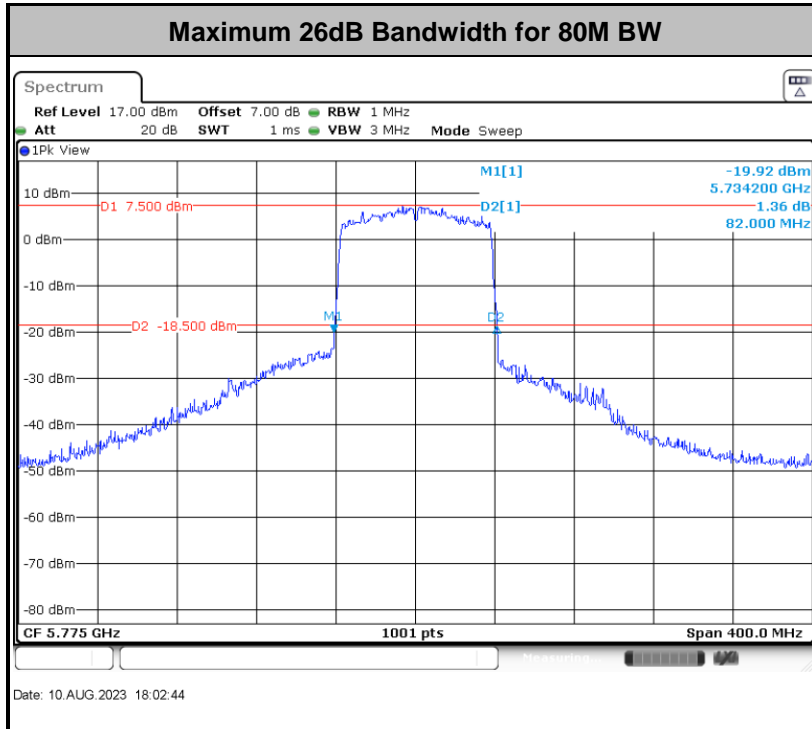
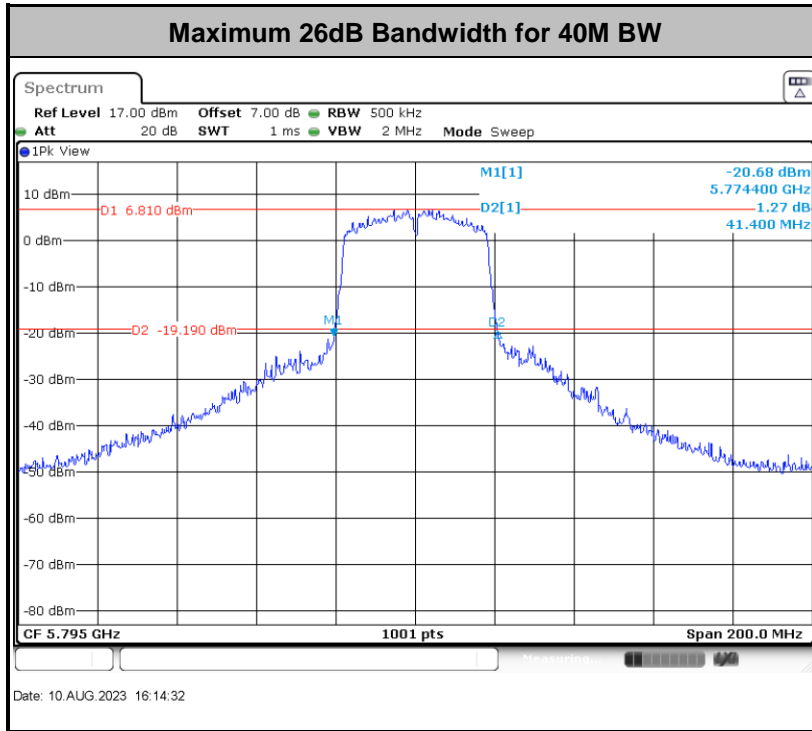
##### 3.1.4 Test Setup

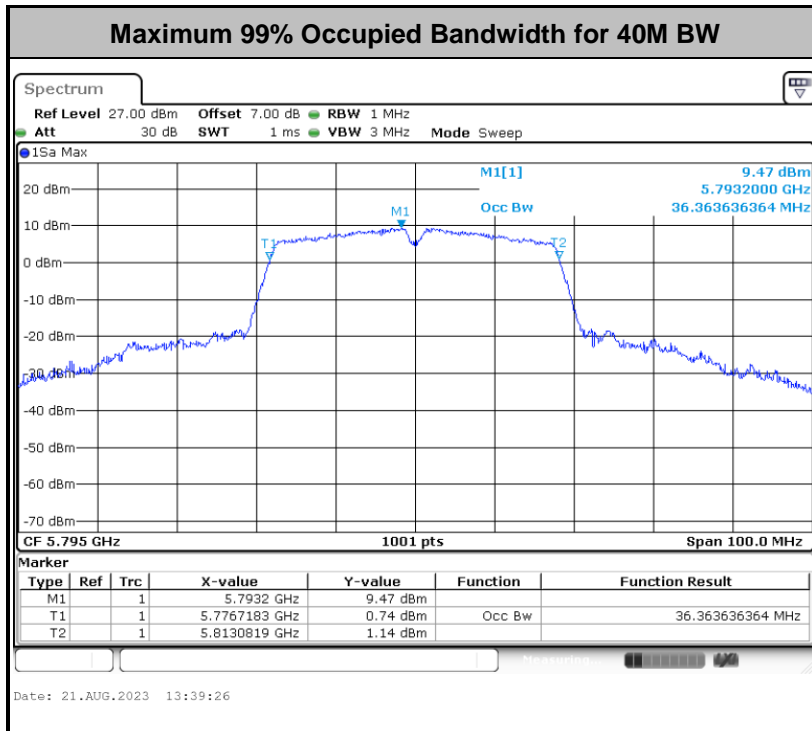
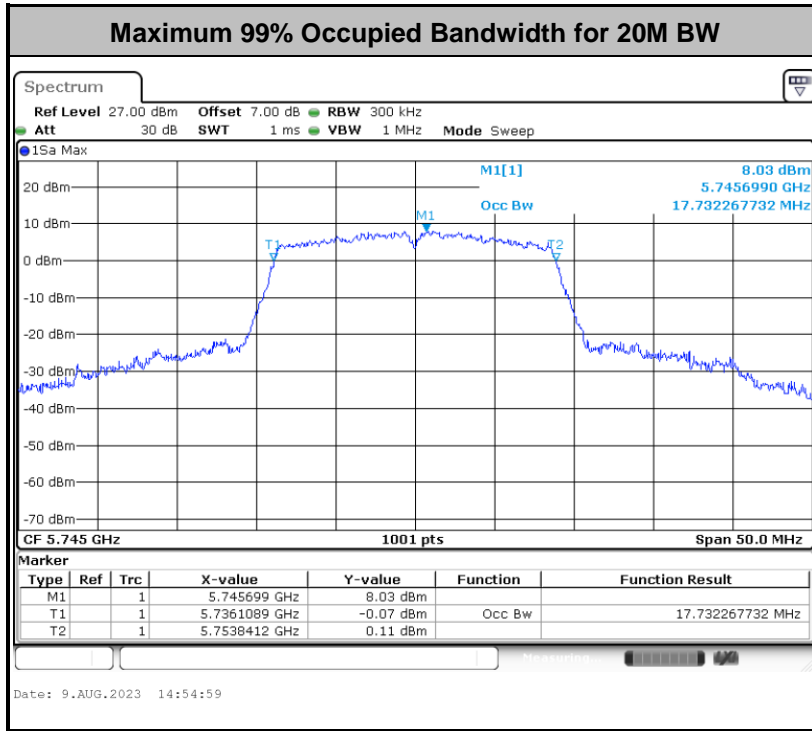


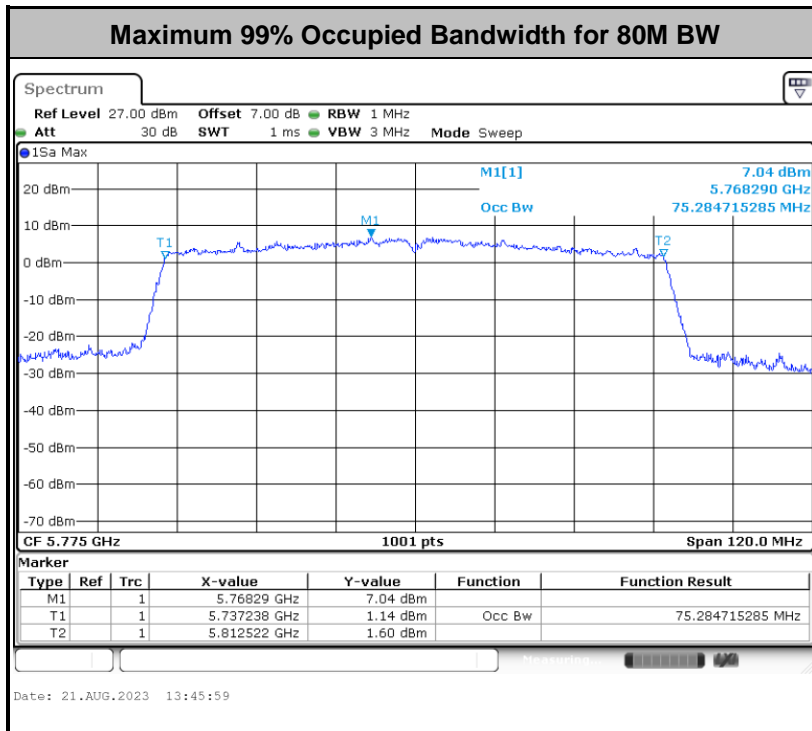
##### 3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.









**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

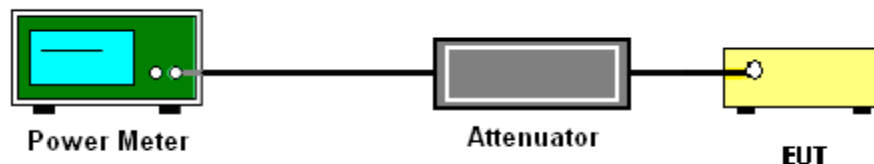
### 3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where  $x$  is the duty cycle.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.





### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

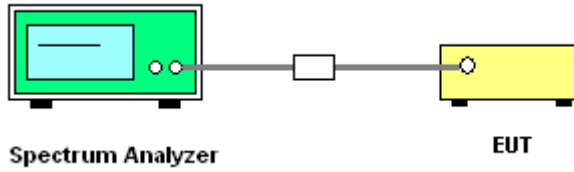
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

##### # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

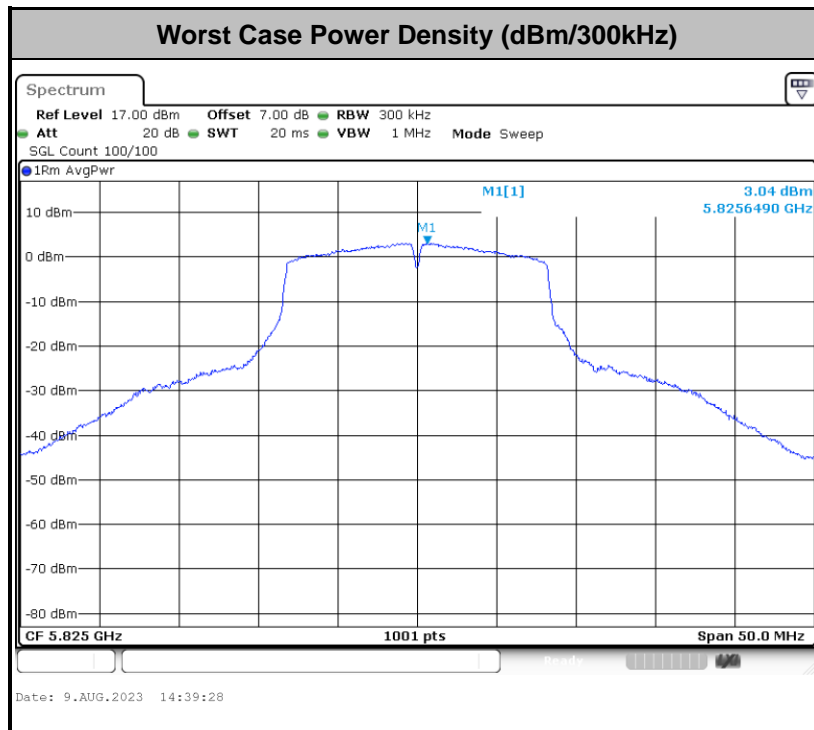
- Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 500KHz (or 300 kHz if the SA can't set RBW=500KHz).
  - Set VBW  $\geq$  1 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging mode.
  - If the SA can't set RBW=500KHz, then add  $10 \log(500\text{kHz}/\text{RBW})$  to the test result
  - Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
  2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





### 3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

#### 3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:  
 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

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



EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.2

**Note:** The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

$E_{Meas}$  is the field strength of the emission at the measurement distance, in dBµV/m

$d_{Meas}$  is the measurement distance, in m

(3) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

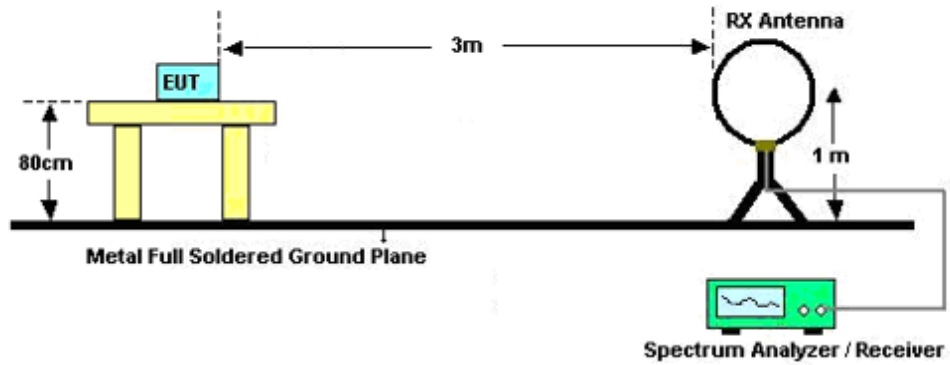


### 3.4.3 Test Procedures

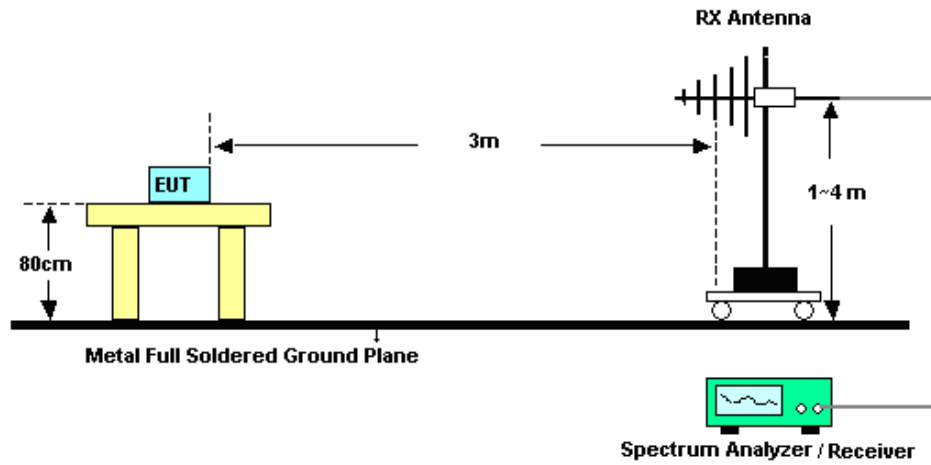
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

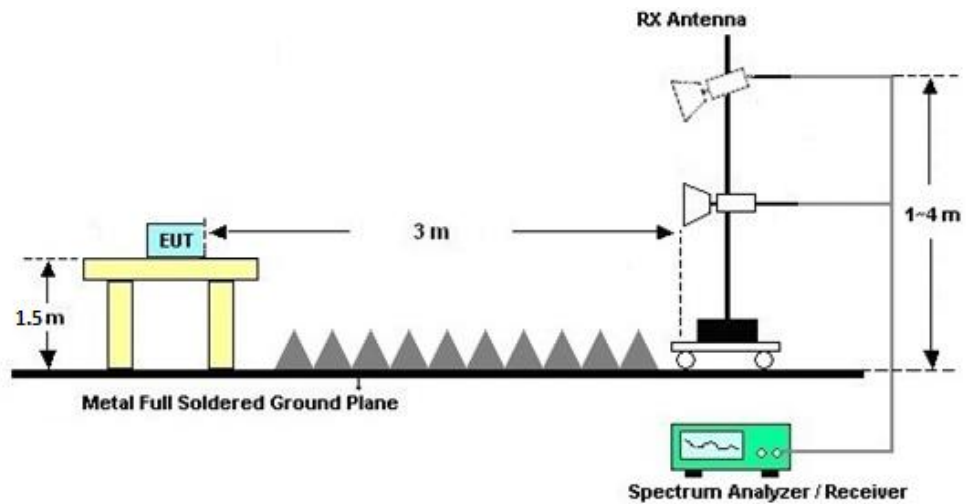
**For radiated emissions below 30MHz**



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





### **3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### **3.4.6 Test Result of Radiated Band Edges**

Please refer to Appendix C.

### **3.4.7 Duty Cycle**

Please refer to Appendix D.

### **3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)**

Please refer to Appendix C.



### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

#### 3.5.2 Measuring Instruments

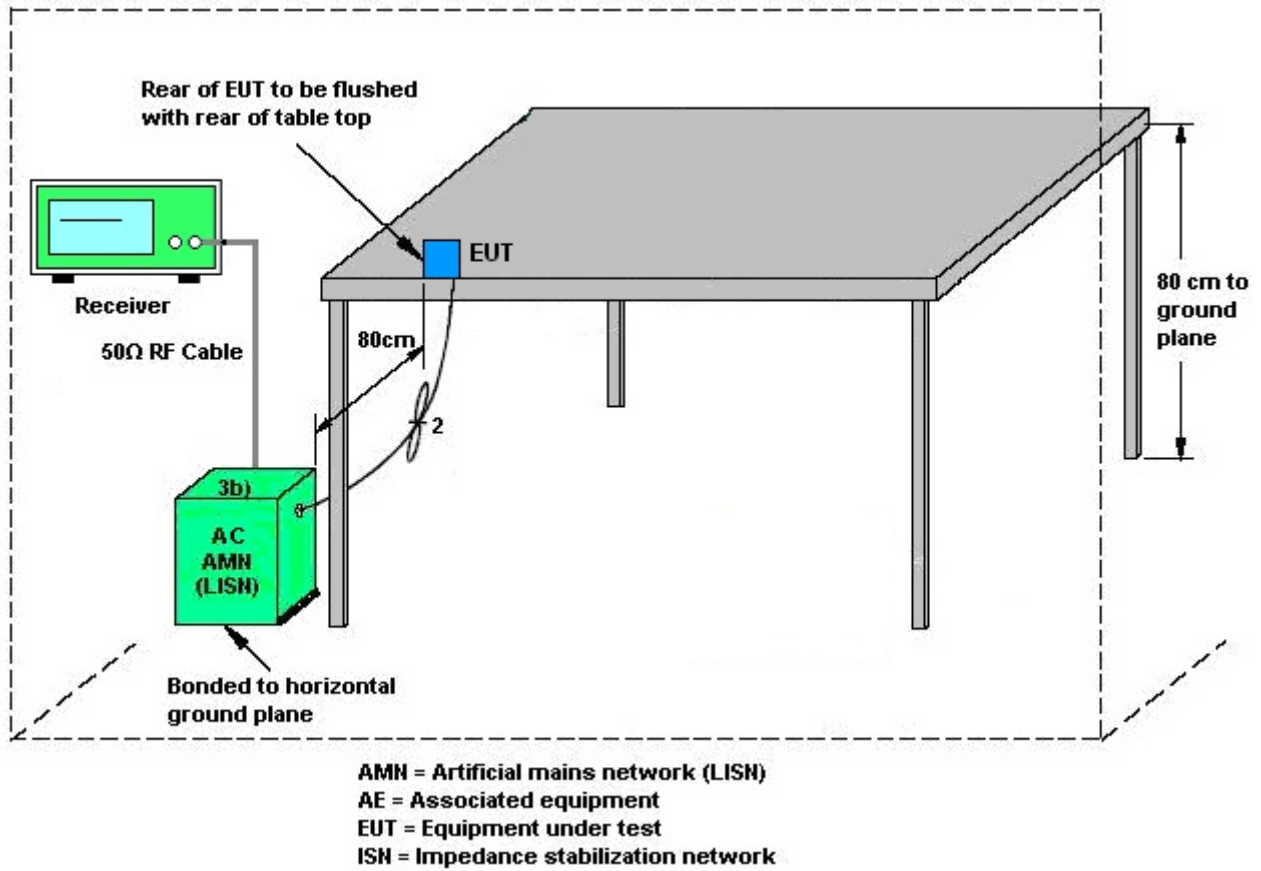
The measuring equipment is listed in the section 4 of this test report.

#### 3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.



### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

### 3.6 Automatically Discontinue Transmission

#### 3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

#### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.6.3 Test Result of Automatically Discontinue Transmission

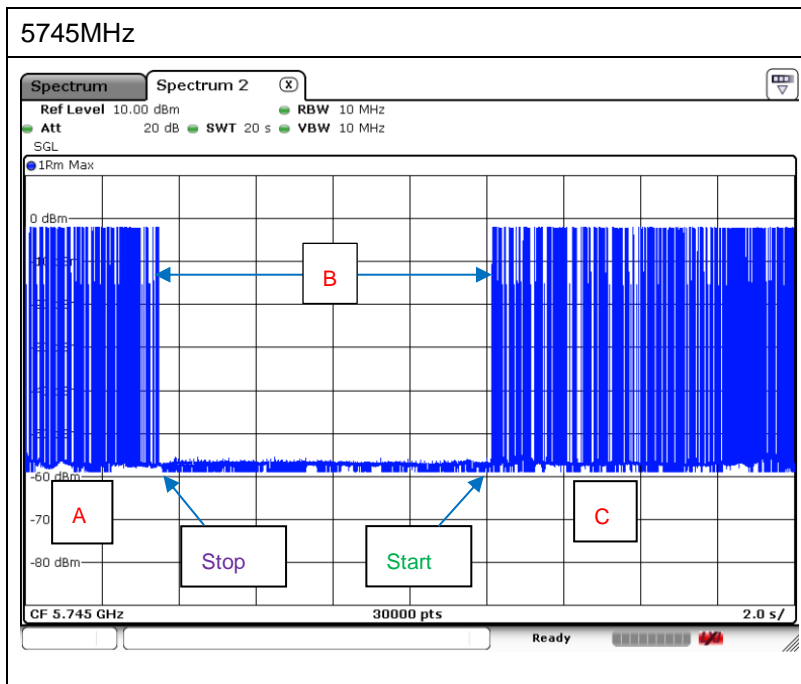
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



Note : The control / signaling information during the period B is precluded.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Aug. 09, 2023~ Aug. 21, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Aug. 09, 2023~ Aug. 21, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Aug. 09, 2023~ Aug. 21, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Attenuator	TOJOIN	SMA(JK)	EMC01	2W/DC-18G	Jan. 10, 2023	Aug. 09, 2023~ Aug. 21, 2023	Jan. 09, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;Max 30dBm	Oct. 13, 2022	Aug. 18, 2023	Oct. 12, 2023	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY602421 26	10Hz~44GHz	Oct. 13, 2022	Aug. 18, 2023	Oct. 12, 2023	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Aug. 18, 2023	Oct. 15, 2023	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Apr. 09, 2023	Aug. 18, 2023	Apr. 08, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 06, 2023	Aug. 18, 2023	Apr. 05, 2024	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 08, 2023	Aug. 18, 2023	Jan. 07, 2024	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 06, 2023	Aug. 18, 2023	Jul. 05, 2024	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2023	Aug. 18, 2023	Jan. 04, 2024	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 05, 2023	Aug. 18, 2023	Jan. 04, 2024	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY532703 19	500MHz~26.5GHz	Oct. 12, 2022	Aug. 18, 2023	Oct. 11, 2023	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Aug. 18, 2023	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 18, 2023	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 18, 2023	NCR	Radiation (03CH06-KS)
Attenuator	TOJOIN	SMA(JK)	EMC01	2W/DC-18G	Jan. 10, 2023	Aug. 18, 2023	Jan. 09, 2024	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	Aug. 21, 2023	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Aug. 21, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	Aug. 21, 2023	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Aug. 21, 2023	Oct. 11, 2023	Conduction (CO01-KS)
Signal Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 05, 2023	Aug. 21, 2023	Jan. 04, 2024	Conducted (DFS01-KS)

NCR: No Calibration Required



## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±2.26 dB
Occupied Channel Bandwidth	±0.1 %
Conducted Power Spectral Density	±0.88 dB

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.26 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.02 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.26 dB
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----- THE END -----



## Appendix A. Conducted Test Results

Test Engineer:	Kib Shi	Temperature:	21~25	°C
Test Date:	2023/8/9~2023/8/21	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**6dB and 26dB EBW and 99% OBW**

U-NII-3									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)	6dB Bandwidth min. Limit (MHz)	Pass/Fail
11a	6M bps	1	149	5745	17.03	23.4	15.15	0.5	Pass
11a	6Mbps	1	157	5785	17.03	24.2	13.9	0.5	Pass
11a	6Mbps	1	165	5825	17.13	26	15.15	0.5	Pass
VHT20	MCS 0	1	149	5745	17.73	20.8	15.15	0.5	Pass
VHT20	MCS 0	1	157	5785	17.73	20.8	15.1	0.5	Pass
VHT20	MCS 0	1	165	5825	17.73	20.8	15.1	0.5	Pass
VHT40	MCS 0	1	151	5755	36.26	41.2	35.1	0.5	Pass
VHT40	MCS 0	1	159	5795	36.36	41.4	35.1	0.5	Pass
VHT80	MCS 0	1	155	5775	75.28	82	75.2	0.5	Pass



**TEST RESULTS DATA**  
**Average Power Table**

U-NII-3										
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6M bps	1	149	5745	0.16	18.07	30.00	5.00		Pass
11a	6Mbps	1	157	5785	0.16	18.08	30.00	5.00		Pass
11a	6Mbps	1	165	5825	0.16	18.12	30.00	5.00		Pass
HT20	MCS 0	1	149	5745	0.19	16.05	30.00	5.00		Pass
HT20	MCS 0	1	157	5785	0.19	15.93	30.00	5.00		Pass
HT20	MCS 0	1	165	5825	0.19	16.00	30.00	5.00		Pass
HT40	MCS 0	1	151	5755	0.34	16.18	30.00	5.00		Pass
HT40	MCS 0	1	159	5795	0.34	16.10	30.00	5.00		Pass
VHT20	MCS 0	1	149	5745	0.16	16.21	30.00	5.00		Pass
VHT20	MCS 0	1	157	5785	0.16	16.06	30.00	5.00		Pass
VHT20	MCS 0	1	165	5825	0.16	16.23	30.00	5.00		Pass
VHT40	MCS 0	1	151	5755	0.35	16.31	30.00	5.00		Pass
VHT40	MCS 0	1	159	5795	0.35	16.23	30.00	5.00		Pass
VHT80	MCS 0	1	155	5775	0.65	15.91	30.00	5.00		Pass

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**TEST RESULTS DATA**  
**Power Spectral Density**

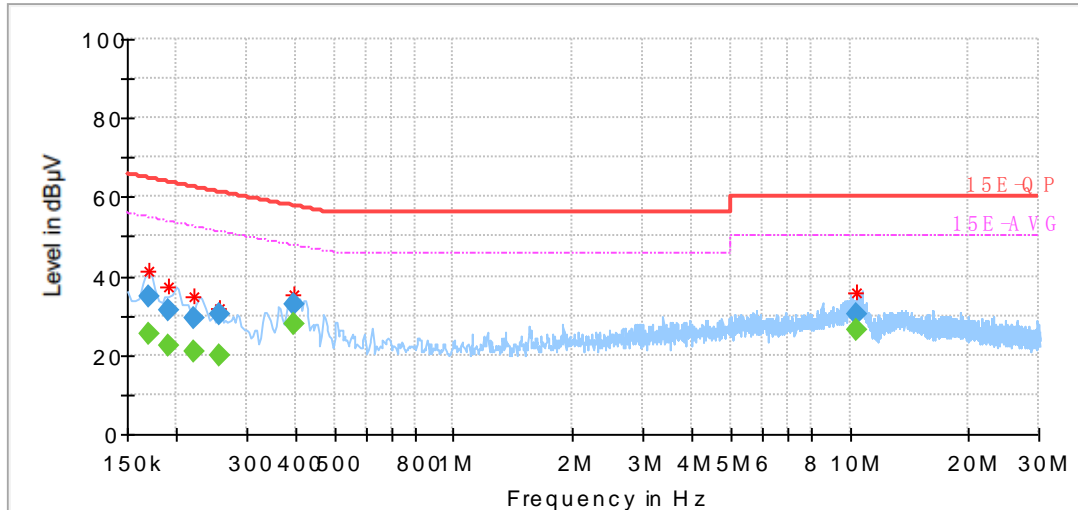
U-NII-3										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	10log (500kHz /RBW) Factor (dB)	Average Power Density (dBm/500kHz)	Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass/Fail
11a	6M bps	1	149	5745	0.16	2.22	5.17	30.00	5.00	Pass
11a	6Mbps	1	157	5785	0.16	2.22	5.08	30.00	5.00	Pass
11a	6Mbps	1	165	5825	0.16	2.22	5.41	30.00	5.00	Pass
VHT20	MCS 0	1	149	5745	0.16	2.22	3.05	30.00	5.00	Pass
VHT20	MCS 0	1	157	5785	0.16	2.22	2.82	30.00	5.00	Pass
VHT20	MCS 0	1	165	5825	0.16	2.22	3.30	30.00	5.00	Pass
VHT40	MCS 0	1	151	5755	0.35	2.22	0.22	30.00	5.00	Pass
VHT40	MCS 0	1	159	5795	0.35	2.22	0.38	30.00	5.00	Pass
VHT80	MCS 0	1	155	5775	0.65	2.22	-2.40	30.00	5.00	Pass



## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

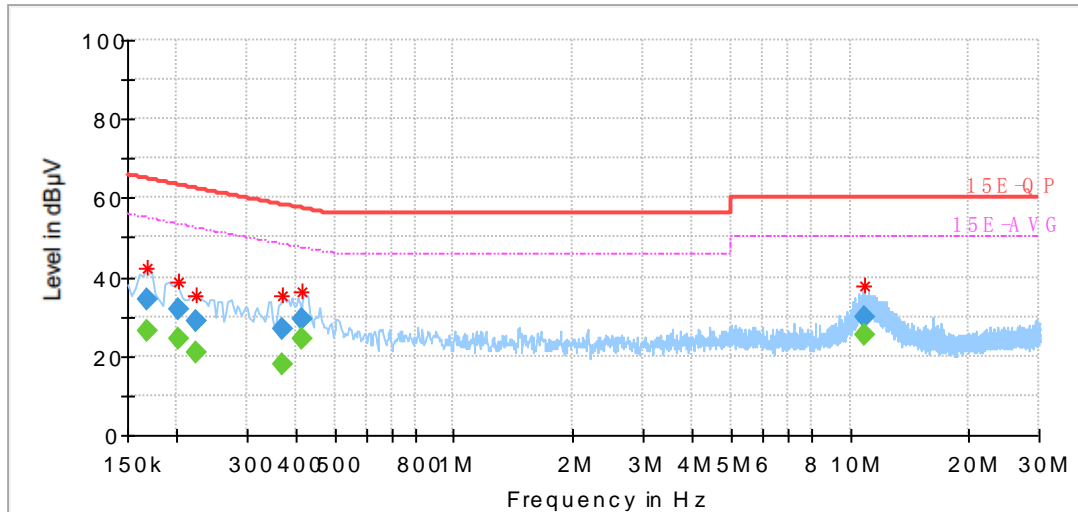


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170906	---	25.26	54.82	29.56	L1	OFF	20.0
0.170906	34.81	---	64.84	30.02	L1	OFF	20.0
0.189506	---	22.53	53.90	31.38	L1	OFF	20.0
0.189506	31.54	---	63.93	32.39	L1	OFF	20.0
0.221606	---	21.07	52.54	31.47	L1	OFF	20.0
0.221606	29.45	---	62.58	33.12	L1	OFF	20.0
0.255956	---	20.02	51.32	31.30	L1	OFF	19.9
0.255956	30.14	---	61.36	31.22	L1	OFF	19.9
0.393244	---	27.77	47.84	20.07	L1	OFF	19.9
0.393244	32.96	---	57.87	24.90	L1	OFF	19.9
10.410169	---	26.31	50.00	23.69	L1	OFF	20.0
10.410169	30.13	---	60.00	29.87	L1	OFF	20.0



Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.167888	---	26.45	54.98	28.53	N	OFF	20.2
0.167888	34.42	---	64.99	30.57	N	OFF	20.2
0.200756	---	24.17	53.40	29.23	N	OFF	20.2
0.200756	32.05	---	63.43	31.38	N	OFF	20.2
0.223856	---	21.03	52.45	31.43	N	OFF	20.1
0.223856	28.72	---	62.49	33.77	N	OFF	20.1
0.370144	---	18.10	48.32	30.21	N	OFF	20.0
0.370144	26.69	---	58.35	31.66	N	OFF	20.0
0.414150	---	24.25	47.44	23.19	N	OFF	19.9
0.414150	29.55	---	57.46	27.90	N	OFF	19.9
10.850630	---	25.58	50.00	24.42	N	OFF	20.1
10.850630	29.87	---	60.00	30.13	N	OFF	20.1



### Appendix C. Radiated Spurious Emission

Test Engineer :	Ryan Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

### Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 35	U-NII-3	5.725-5.85	802.11a	149	5745	6Mbps	-	-
Mode 36	U-NII-3	5.725-5.85	802.11a	157	5785	6Mbps	-	-
Mode 37	U-NII-3	5.725-5.85	802.11a	165	5825	6Mbps	-	-
Mode 38	U-NII-3	5.725-5.85	802.11ac VHT20	149	5745	MCS0	-	-
Mode 39	U-NII-3	5.725-5.85	802.11ac VHT20	157	5785	MCS0	-	-
Mode 40	U-NII-3	5.725-5.85	802.11ac VHT20	165	5825	MCS0	-	-
Mode 41	U-NII-3	5.725-5.85	802.11ac VHT40	151	5755	MCS0	-	-
Mode 42	U-NII-3	5.725-5.85	802.11ac VHT40	159	5795	MCS0	-	-
Mode 43	U-NII-3	5.725-5.85	802.11ac VHT80	155	5775	MCS0	-	-
Mode 46	U-NII-3	5.725-5.85	802.11a	165	5825	6Mbps		LF



### Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
35	802.11a	149	5640.02	59.09	68.20	-9.11	H	Peak	Pass	Band Edge
	802.11a	149	11490.00	48.87	74.00	-25.13	V	Peak	Pass	Harmonic
36	802.11a	157	5946.37	61.54	68.20	-6.66	H	PEAK	Pass	Band Edge
	802.11a	157	11570.00	46.16	74.00	-27.84	V	PEAK	Pass	Harmonic
37	802.11a	165	5944.00	62.14	68.20	-6.06	V	PEAK	Pass	Band Edge
	802.11a	165	11650.00	44.27	74.00	-29.73	V	PEAK	Pass	Harmonic
38	802.11ac VHT20	149	5637.85	60.64	68.20	-7.56	H	PEAK	Pass	Band Edge
	802.11ac VHT20	149	11490.00	46.15	74.00	-27.85	V	PEAK	Pass	Harmonic
39	802.11ac VHT20	157	5946.37	55.77	68.20	-12.43	V	PEAK	Pass	Band Edge
	802.11ac VHT20	157	11570.00	45.57	74.00	-28.43	V	PEAK	Pass	Harmonic
40	802.11ac VHT20	165	5950.00	55.53	68.20	-12.67	H	PEAK	Pass	Band Edge
	802.11ac VHT20	165	11650.00	38.11	54.00	-15.89	H	AVERAGE	Pass	Harmonic
41	802.11ac VHT40	151	5647.12	57.08	68.20	-11.12	H	PEAK	Pass	Band Edge
	802.11ac VHT40	151	11510.00	43.95	74.00	-30.05	H	PEAK	Pass	Harmonic
42	802.11ac VHT40	159	5640.95	55.56	68.20	-12.64	H	PEAK	Pass	Band Edge
	802.11ac VHT40	159	11590.00	43.53	74.00	-30.47	H	PEAK	Pass	Harmonic
43	802.11ac VHT80	155	5649.70	59.81	68.20	-8.39	H	PEAK	Pass	Band Edge
	802.11ac VHT80	155	11550.00	43.38	74.00	-30.62	H	PEAK	Pass	Harmonic
46	802.11a	165	363.68	37.84	46.00	-8.16	H	PEAK	Pass	LF



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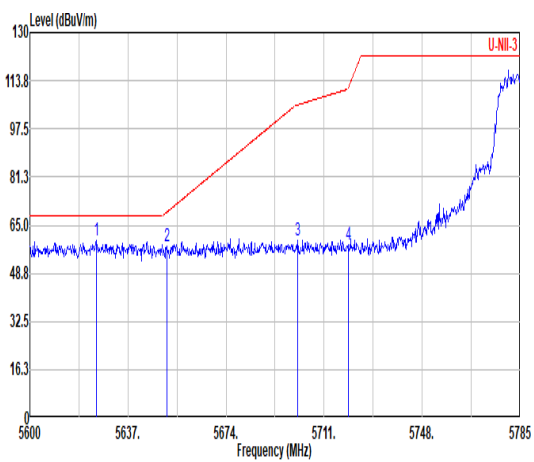
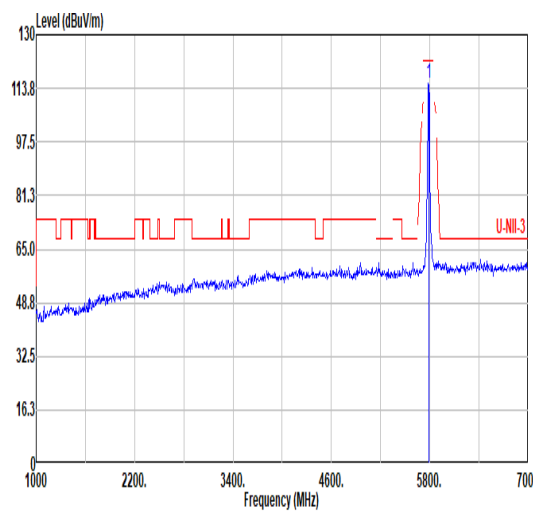
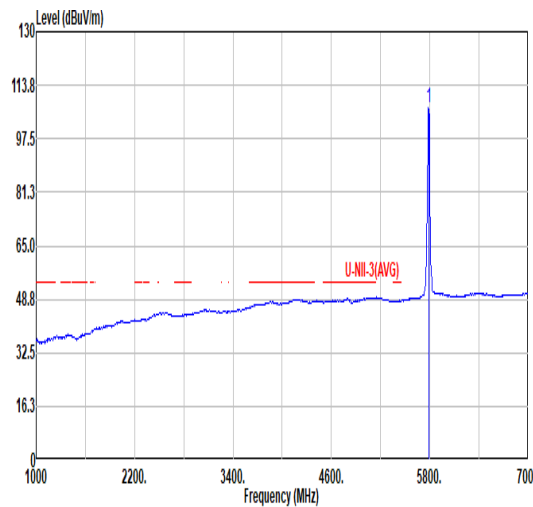


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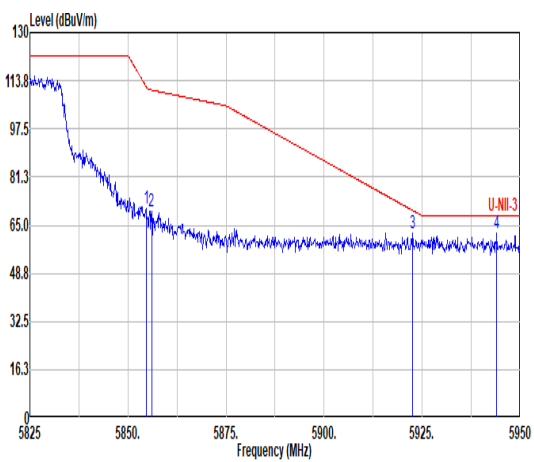
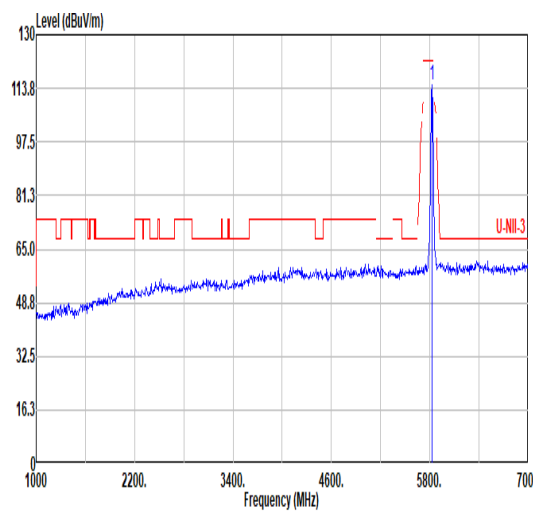
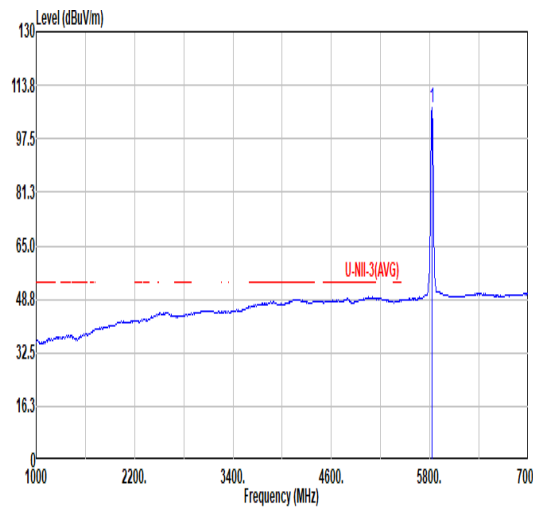


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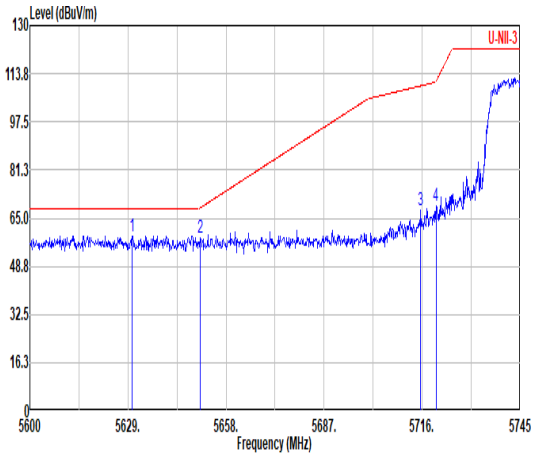
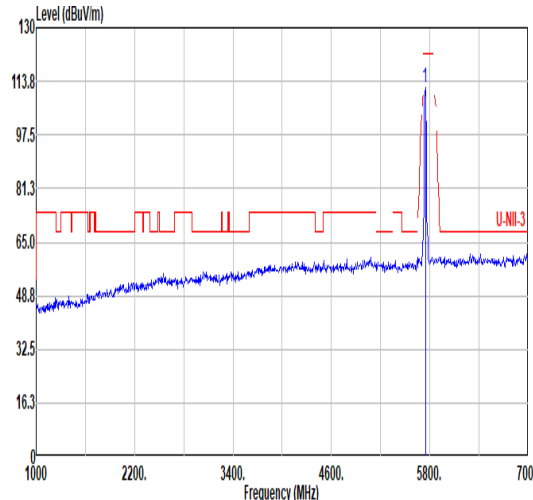
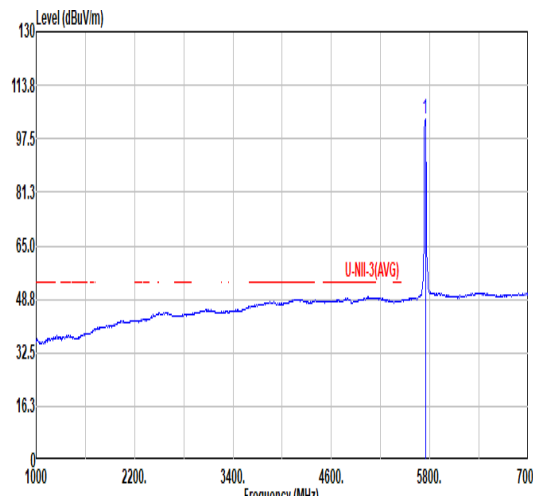
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3	5719.92	72.21	110.88	-38.67	53.24	34.66	10.34	32.03	6.00	100	202	PEAK																																																																																											
4	5728.35	72.08	111.70	-39.62	53.11	34.66	10.34	32.03	6.00	100	202	PEAK																																																																																											
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3 5924.76	53.96	68.38	-14.42	40.33	35.10	10.52	31.99	0.00	100	200	PEAK																																																																								
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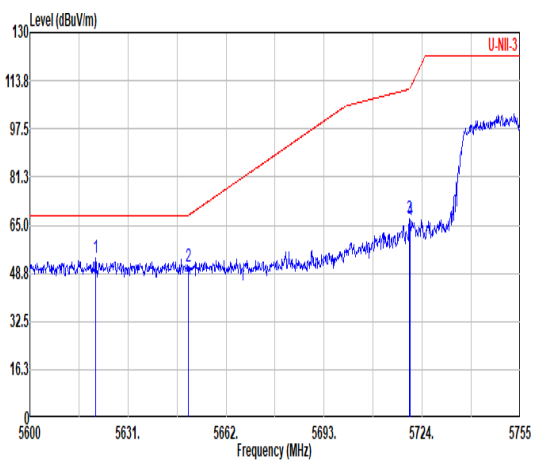
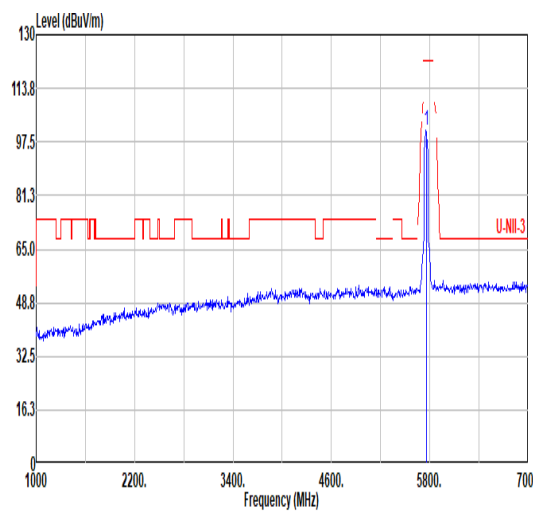
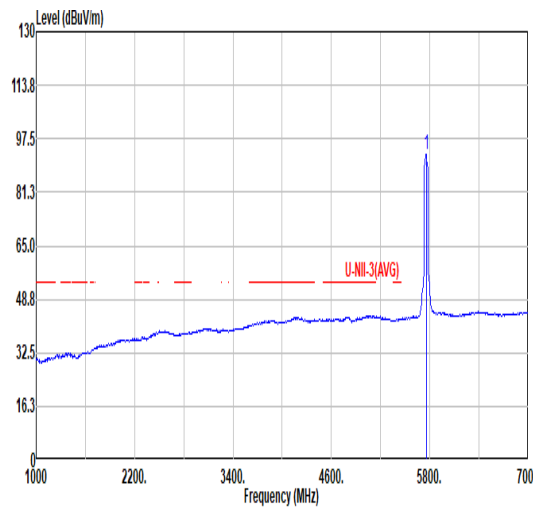


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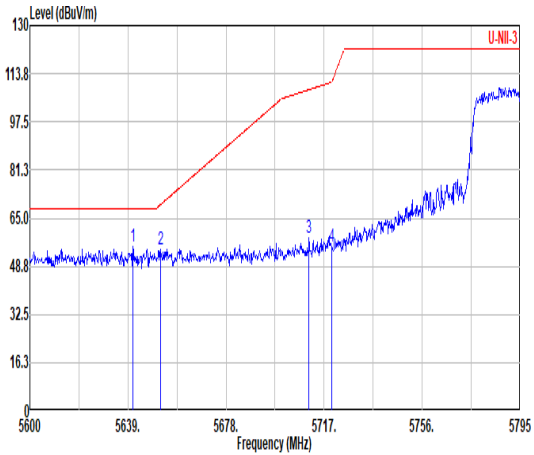
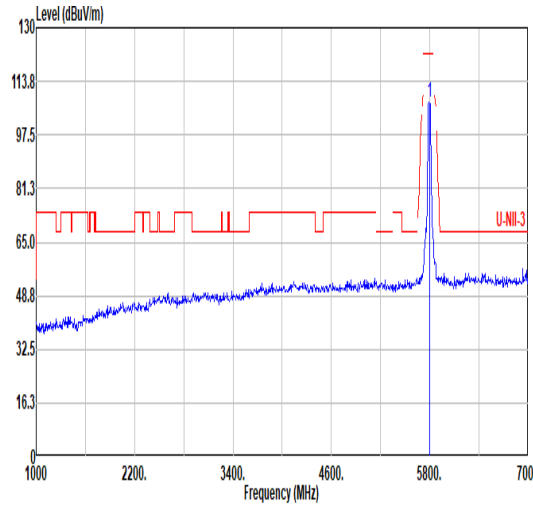
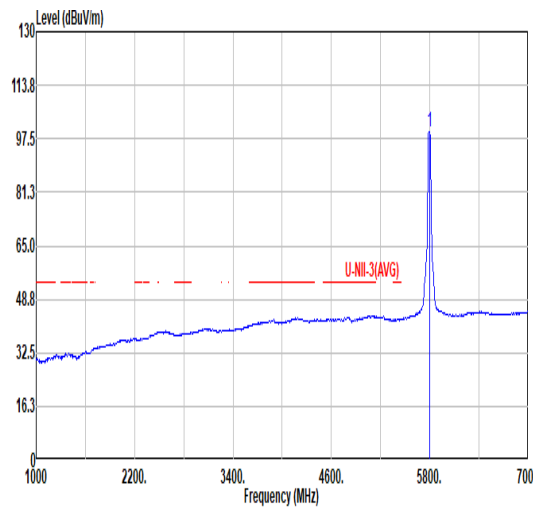
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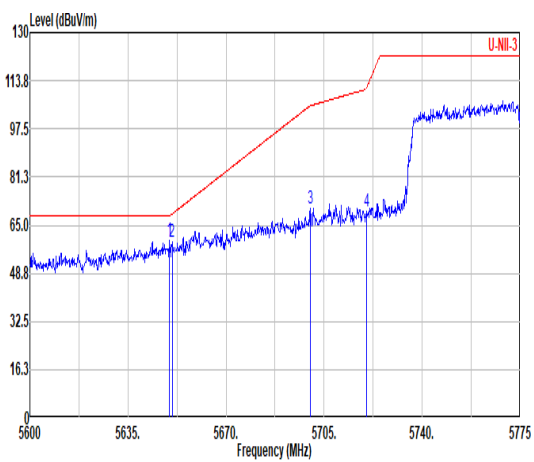
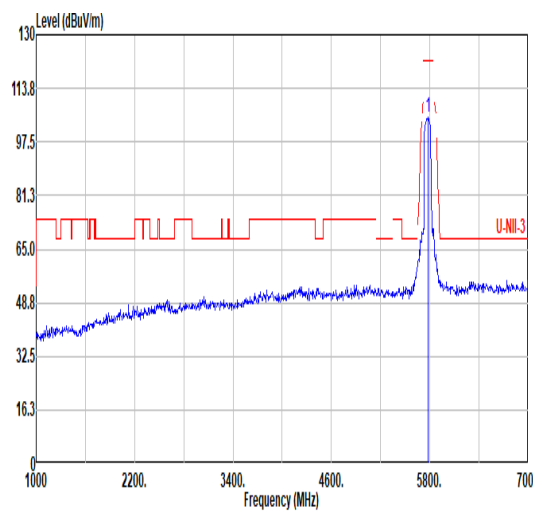
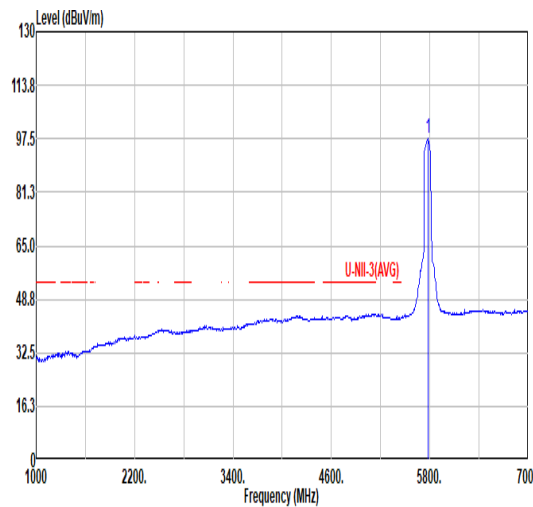


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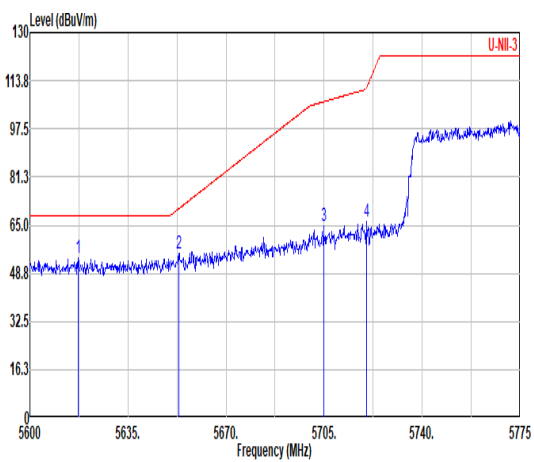
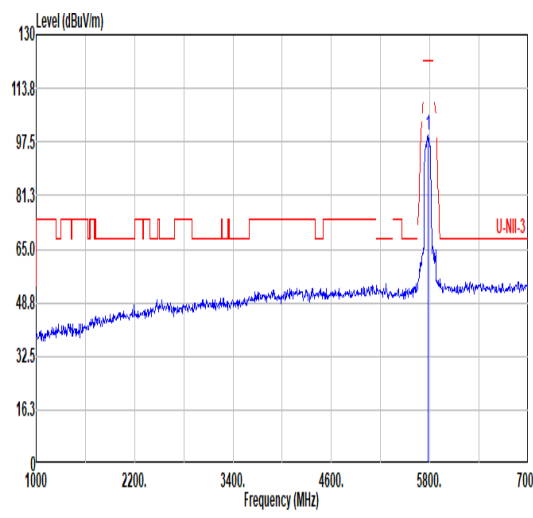
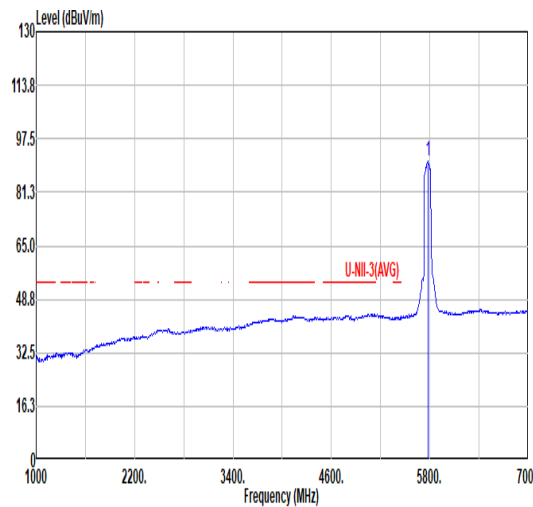
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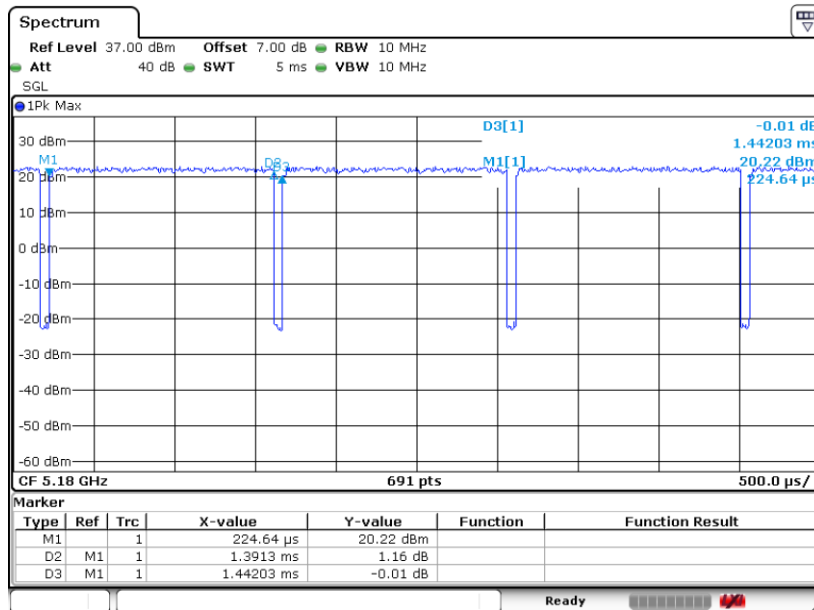
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## Appendix D. Duty Cycle Plots

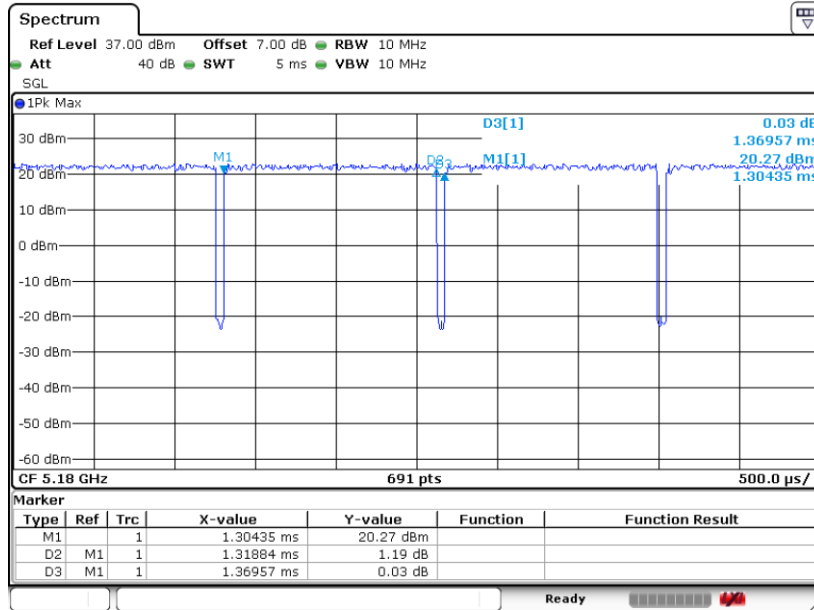
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	96.48	1.391	0.719	0.75kHz
802.11ac VHT20	96.30	1.319	0.758	0.82kHz
802.11ac VHT40	92.21	0.652	1.533	1.6kHz
802.11ac VHT80	86.15	0.325	3.080	3.3kHz

### 802.11a

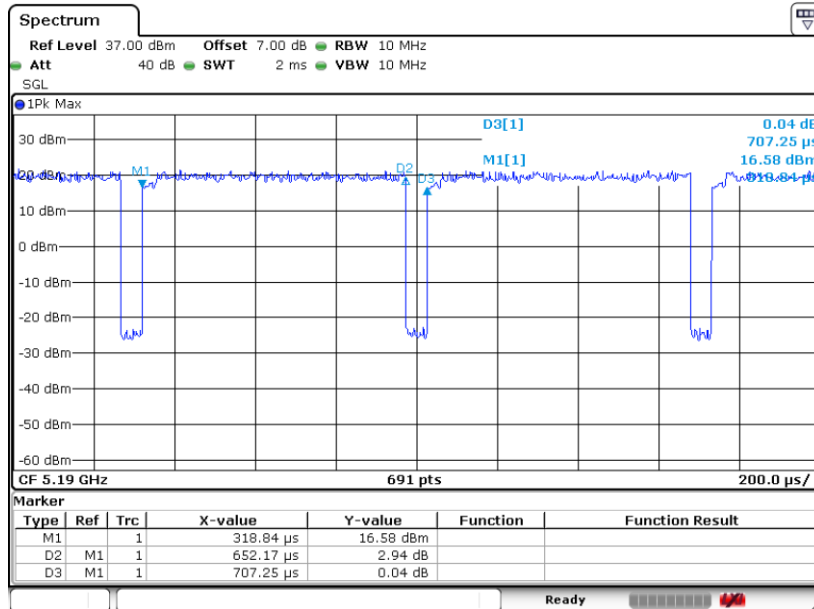




802.11ac VHT20



802.11ac VHT40





802.11ac VHT80

