



# FCC RADIO TEST REPORT

**FCC ID** : HLZA24005  
**Equipment** : Tablet PC  
**Brand Name** : acer  
**Model Name** : A24005  
**Marketing Name** : Acer Iconia V11, V11-11  
**Applicant** : Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City  
22181, Taiwan (R.O.C)  
**Manufacturer** : Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City  
22181, Taiwan (R.O.C)  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Jul. 17, 2024 and testing was performed from Jul. 29, 2024 to Aug. 26, 2024. We, Sporton International Inc. Wensan Laboratory, 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issue Date
FR471715D	01	Initial issue of report	Sep. 09, 2024
FR471715D	02	Revise Antenna information and Appendix A This report is an updated version, replacing the report issued on Sep. 09, 2024.	Sep. 12, 2024



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	2.32 dB under the limit at 5350.01 MHz
3.5	15.207	AC Conducted Emission	Pass	14.55 dB under the limit at 0.38 MHz
3.6	15.203	Antenna Requirement	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.

**Reviewed by: Keven Cheng**

**Report Producer: Michelle Chen**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
<b>General Specs</b> Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac and GNSS.	
<b>Antenna Type</b> WLAN: FPC Antenna Bluetooth: FPC Antenna GPS / Glonass / BDS / Galileo: FPC Antenna	

Antenna information		
<b>5150 MHz ~ 5250 MHz</b>	Peak Gain (dBi)	0.69
<b>5250 MHz ~ 5350 MHz</b>	Peak Gain (dBi)	0.69
<b>5470 MHz ~ 5725 MHz</b>	Peak Gain (dBi)	0.91

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.



SKU List		
Model	SKU1 (6+128GB)	SKU2 (6+128GB) Second source
<b>CPU</b>	G80 (MT8786) WiFi only	G80 (MT8786) WiFi only
<b>PCB</b>	Wuzhu	Wuzhu
<b>PCB 2</b>	Kingshine	Kingshine
<b>LCM</b>	K&D KD110N09-51II-A002	K&D KD110N09-51II-A002
<b>LCM 2</b>	STARRY 2082109QFH036011-50G	STARRY 2082109QFH036011-50G
<b>Memory</b>	Longsys MLXC4006G 6GB LPDDR4X	CXMT CXDBCCCDM-MK-M
<b>eMMC</b>	Longsys FEMDNN128G 128GB	UDStore UEMDGS63S0 128GB
<b>Battery</b>	UTL\Battery\Li-polymer\Pack\MG1011\U3189 91PV-2P\8000mAh_30.4Wh\3.8V\177*93*3.2 5mm\Connector 51146-5P\ACER	UTL\Battery\Li-polymer\Pack\MG1011\U3189 91PV-2P\8000mAh_30.4Wh\3.8V\177*93*3.2 5mm\Connector 51146-5P\ACER
<b>Wifi / Bluetooth</b>	MT6631N/A, 802.11 a/b/g/n/ac WIFI (2.4G+5G)	MT6631N/A, 802.11 a/b/g/n/ac WIFI (2.4G+5G)
<b>GPS</b>	MT6631N/A, GPS BEIDOU, GLONASS, Galileo	MT6631N/A, GPS BEIDOU, GLONASS, Galileo
<b>Front Camera</b>	Zhuocheng ZE2140-MG1011_F-V1.0	Zhuocheng ZE2140-MG1011_F-V1.0
<b>Rear Camera</b>	Zhuocheng ZE2142-MG1011_B-V1.0 (8856)	Zhuocheng ZE2142-MG1011_B-V1.0 (8856)
<b>Speaker-R</b>	Ming Tai Dian Sheng S-1712C-8A-MG1011-R-BOX	Ming Tai Dian Sheng S-1712C-8A-MG1011-R-BOX
<b>Speaker-L</b>	Ming Tai Dian Sheng S-1712C-8A-MG1011-L-BOX	Ming Tai Dian Sheng S-1712C-8A-MG1011-L-BOX
<b>Wifi Antenna</b>	Sward ST1821A-1B2-A	Sward ST1821A-1B2-A
<b>GPS Antenna</b>	Sward ST1821A-1B2-A	Sward ST1821A-1B2-A
<b>Adapter 1</b>	Aoda A829-120167C-AR1 A829-120167C-US1 A829-120167C-EU1 A829-120167C-TL1 A829-120167C-UK1	Aoda A829-120167C-AR1 A829-120167C-US1 A829-120167C-EU1 A829-120167C-TL1 A829-120167C-UK1
<b>Adapter 2</b>	TEKA TEKA-SCC20EU TEKA-SCC20BS TEKA-SCC20US TEKA-SCC20AR	TEKA TEKA-SCC20EU TEKA-SCC20BS TEKA-SCC20US TEKA-SCC20AR



SKU List		
Model	SKU3 (6+256GB)	SKU4 (6+256GB) Second source
<b>CPU</b>	G80 (MT8786) WiFi only	G80 (MT8786) WiFi only
<b>PCB</b>	Wuzhu	Wuzhu
<b>PCB 2</b>	Kingshine	Kingshine
<b>LCM</b>	K&D KD110N09-51II-A002	K&D KD110N09-51II-A002
<b>LCM 2</b>	STARRY 2082109QFH036011-50G	STARRY 2082109QFH036011-50G
<b>Memory</b>	Longsys MLXC4006G 6GB LPDDR4X	CXMT CXDBCCCDM-MK-M
<b>eMMC</b>	Longsys FEMDNN256G 256GB	Shichuangyi (SCY) E256CSAG4ABE00 256GB
<b>Battery</b>	UTL\Battery\Li-polymer\Pack\MG1011\U318991PV-2P\8000mAh_30.4Wh\3.8V\177*93*3.25mm\Connector 51146-5P\ACER	UTL\Battery\Li-polymer\Pack\MG1011\U318991PV-2P\8000mAh_30.4Wh\3.8V\177*93*3.25mm\Connector 51146-5P\ACER
<b>Wifi / Bluetooth</b>	MT6631N/A, 802.11 a/b/g/n/ac WIFI (2.4G+5G)	MT6631N/A, 802.11 a/b/g/n/ac WIFI (2.4G+5G)
<b>GPS</b>	MT6631N/A, GPS BEIDOU, GLONASS, Galileo	MT6631N/A, GPS BEIDOU, GLONASS, Galileo
<b>Front Camera</b>	Zhuocheng ZE2140-MG1011_F-V1.0	Zhuocheng ZE2140-MG1011_F-V1.0
<b>Rear Camera</b>	Zhuocheng ZE2142-MG1011_B-V1.0 (8856)	Zhuocheng ZE2142-MG1011_B-V1.0 (8856)
<b>Speaker-R</b>	Ming Tai Dian Sheng S-1712C-8A-MG1011-R-BOX	Ming Tai Dian Sheng S-1712C-8A-MG1011-R-BOX
<b>Speaker-L</b>	Ming Tai Dian Sheng S-1712C-8A-MG1011-L-BOX	Ming Tai Dian Sheng S-1712C-8A-MG1011-L-BOX
<b>Wifi Antenna</b>	Sward ST1821A-1B2-A	Sward ST1821A-1B2-A
<b>GPS Antenna</b>	Sward ST1821A-1B2-A	Sward ST1821A-1B2-A
<b>Adapter 1</b>	Aoda A829-120167C-AR1 A829-120167C-US1 A829-120167C-EU1 A829-120167C-TL1 A829-120167C-UK1	Aoda A829-120167C-AR1 A829-120167C-US1 A829-120167C-EU1 A829-120167C-TL1 A829-120167C-UK1
<b>Adapter 2</b>	TEKA TEKA-SCC20EU TEKA-SCC20BS TEKA-SCC20US TEKA-SCC20AR	TEKA TEKA-SCC20EU TEKA-SCC20BS TEKA-SCC20US TEKA-SCC20AR



### 1.2 Modification of EUT

No modifications made to the EUT during the testing.

### 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH05-HY, CO07-HY, 03CH11-HY

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

### 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.





## 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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported 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)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

**Note:**

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



## 2.2 Test Mode

The power for 802.11ac VHT20 and VHT40 mode is smaller than 802.11n mode, so all other conducted and radiated test is covered by 802.11n mode.

The final test modes include the worst data rates for each modulation shown in the table below.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + USB Cable (Charging from Adapter 2) + Earphone for SKU3 (6+256GB)
<b>Remark:</b> For Radiated Test Cases, the tests were performed with Adapter 2 and SKU3 (6+256GB).	



Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

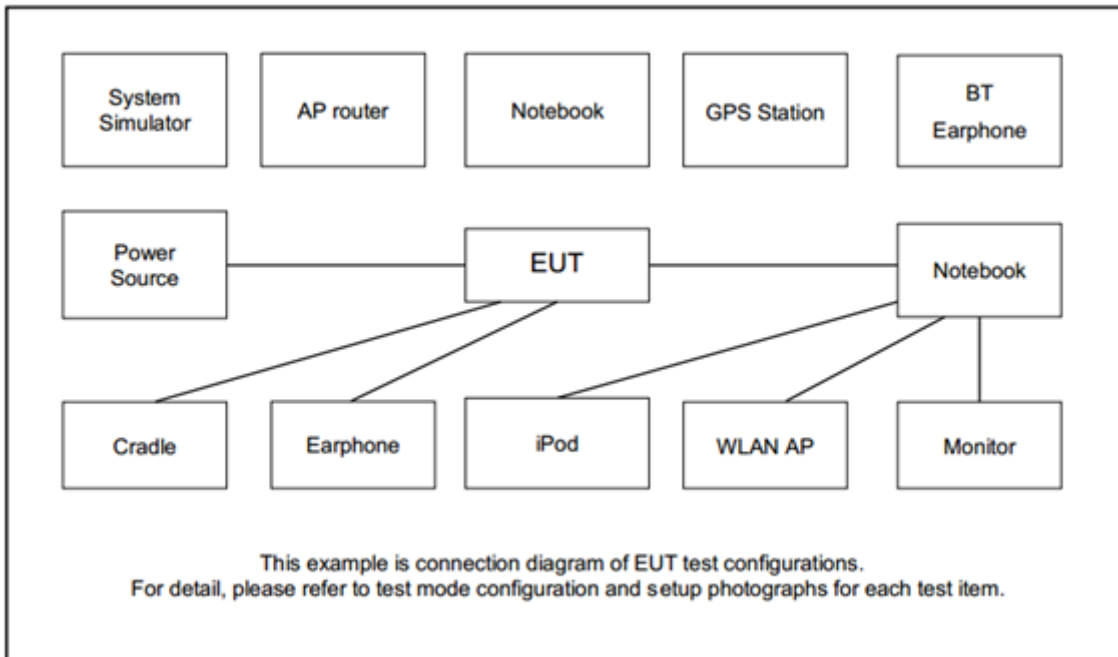
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	-

**Remark:** For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

### 2.3 Connection Diagram of Test System



### 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY700A2029	N/A	N/A
2.	Earphone + Mic	Samsung	Ecouteur	N/A	Unshielded, 1.8m	N/A
3.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A



## 2.5 EUT Operation Test Setup

The RF test items, make the EUT (FW: 2023-12-15-160559) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 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 and attenuator factor 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 and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 26dB & 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

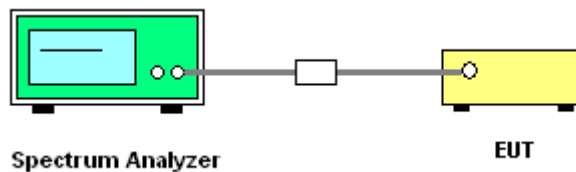
##### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in 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
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
8. Measure and record the results in the test report.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

**For the 5.25–5.725 GHz bands:**

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

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.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

### 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

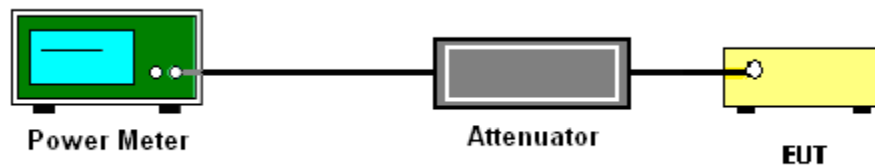
### 3.2.3 Test Procedures

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

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

### 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

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

**For the 5.25–5.725 GHz bands:**

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

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

Please refer to the measuring equipment list in this test report.

### 3.3.3 Test Procedures

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

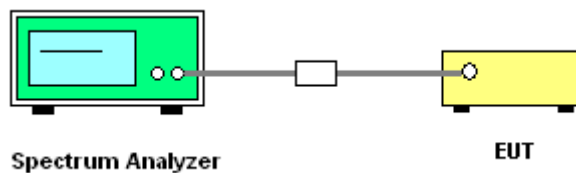
Section F) Maximum power spectral density.

#### # 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 = 1 MHz.
  - Set VBW  $\geq$  3 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.
  - 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 is 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 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) Unwanted spurious emissions falls 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

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

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$



EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

### 3.4.2 Measuring Instruments

Please refer to the measuring equipment list in 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 1000 MHz

- 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 ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

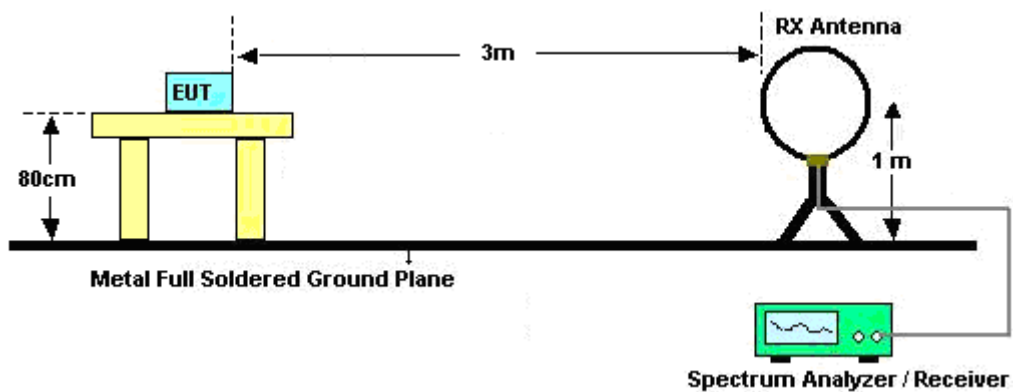
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

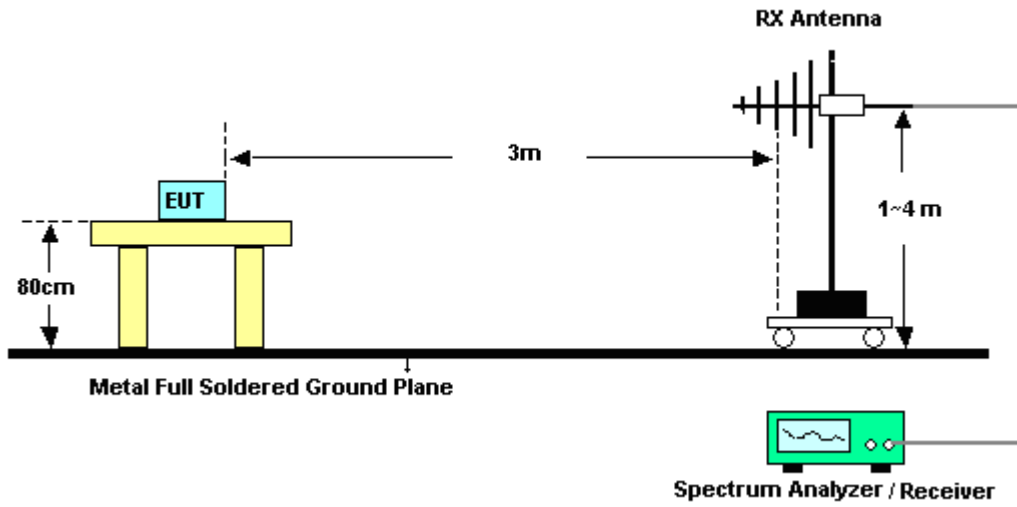
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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 is 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. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.

### 3.4.4 Test Setup

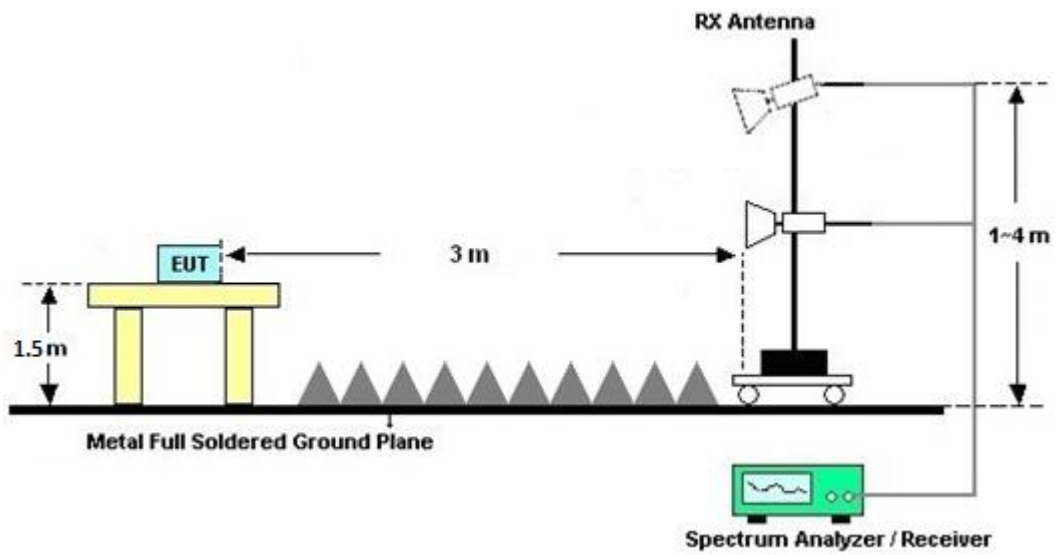
For radiated emissions below 30MHz



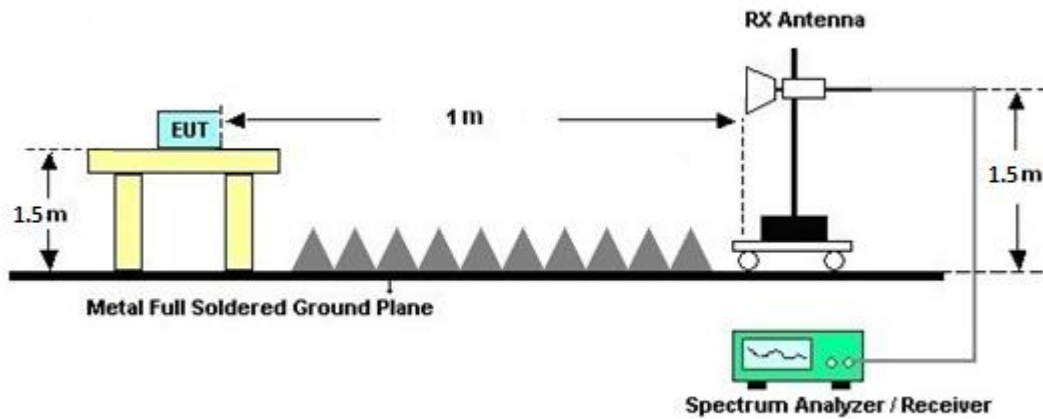
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### 3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

### 3.4.7 Duty Cycle

Please refer to Appendix D.

### 3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

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 (dB $\mu$ V)	
	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

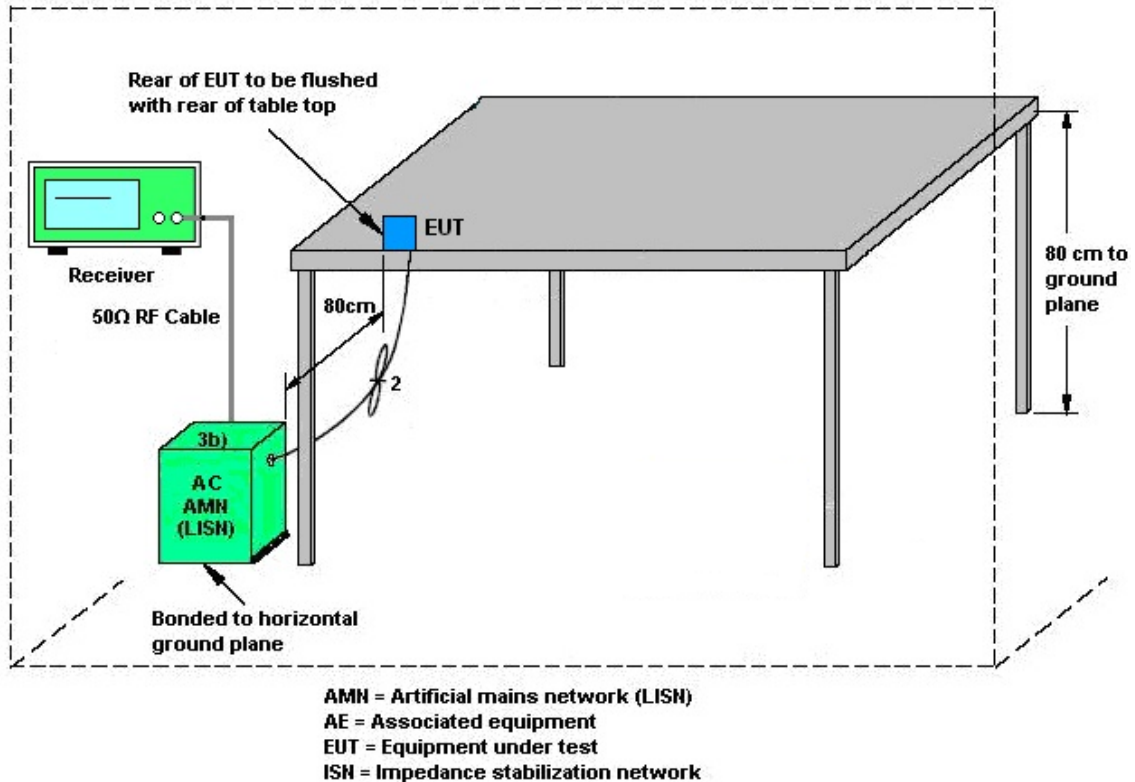
Please refer to the measuring equipment list in this test report.

#### 3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
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 Antenna Requirements**

### **3.6.1 Standard Applicable**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **3.6.2 Antenna Anti-Replacement Construction**

Antenna permanently attached.



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 07, 2023	Aug. 06, 2024~ Aug. 15, 2024	Oct. 06, 2024	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Aug. 06, 2024~ Aug. 15, 2024	Sep. 11, 2024	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 17, 2023	Aug. 06, 2024~ Aug. 15, 2024	Aug. 16, 2024	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 24, 2023	Aug. 06, 2024~ Aug. 15, 2024	Nov. 23, 2024	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 08, 2023	Aug. 06, 2024~ Aug. 15, 2024	Dec. 07, 2024	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 25, 2024	Aug. 06, 2024~ Aug. 15, 2024	Mar. 24, 2025	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Jun. 13, 2024	Aug. 06, 2024~ Aug. 15, 2024	Jun. 12, 2025	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2023	Aug. 06, 2024~ Aug. 15, 2024	Dec. 06, 2024	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 05, 2023	Aug. 06, 2024~ Aug. 15, 2024	Oct. 04, 2024	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 06, 2023	Aug. 06, 2024~ Aug. 15, 2024	Oct. 05, 2024	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 06, 2024~ Aug. 15, 2024	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Aug. 06, 2024~ Aug. 15, 2024	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Aug. 06, 2024~ Aug. 15, 2024	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Aug. 06, 2024~ Aug. 15, 2024	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Dec. 08, 2023	Aug. 06, 2024~ Aug. 15, 2024	Dec. 07, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	May 23, 2024	Aug. 06, 2024~ Aug. 15, 2024	May 22, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 06, 2024	Aug. 06, 2024~ Aug. 15, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Aug. 06, 2024~ Aug. 15, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 06, 2024	Aug. 06, 2024~ Aug. 15, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40SS	SN3	6.75GHz High Pass Filter	Sep. 11, 2023	Aug. 06, 2024~ Aug. 15, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 11, 2023	Aug. 06, 2024~ Aug. 15, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Attenuator	HONOVA	5910 SMA-50-005	0028	N/A	Jul. 09, 2024	Aug. 06, 2024~ Aug. 15, 2024	Jul. 08, 2025	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Aug. 02, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 02, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 20, 2023	Aug. 02, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Aug. 02, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Aug. 02, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Aug. 02, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Aug. 02, 2024	Sep. 19, 2024	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jul. 29, 2024~ Aug. 26, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 13 (NO:255)	10MHz~6GHz	Jan. 08, 2024	Jul. 29, 2024~ Aug. 26, 2024	Jan. 07, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Jul. 29, 2024~ Aug. 26, 2024	Sep. 11, 2024	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Jul. 29, 2024~ Aug. 26, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jul. 29, 2024~ Aug. 26, 2024	N/A	Conducted (TH05-HY)



## 5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.44 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.10 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.30 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.30 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.30 dB
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2024/07/29~2024/08/26	Relative Humidity:	51~54	%

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

U-NII-1 single antenna													
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	-	Ant 1	-	Ant 1	-	Ant 1	-	
11a	6Mbps	1	36	5180	16.68	-	20.26	-	-	-	22.22	-	
11a	6Mbps	1	44	5220	16.68	-	20.29	-	-	-	22.22	-	
11a	6Mbps	1	48	5240	16.68	-	20.12	-	-	-	22.22	-	
HT20	MCS0	1	36	5180	17.68	-	20.49	-	-	-	22.48	-	
HT20	MCS0	1	44	5220	17.73	-	20.44	-	-	-	22.49	-	
HT20	MCS0	1	48	5240	17.73	-	20.37	-	-	-	22.49	-	
HT40	MCS0	1	38	5190	36.56	-	41.49	-	-	-	23.01	-	
HT40	MCS0	1	46	5230	36.66	-	41.57	-	-	-	23.01	-	
VHT80	MCS0	1	42	5210	75.16	-	81.38	-	-	-	23.01	-	

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

FCC U-NII-1 single antenna												
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	-	SUM	Ant 1	-	Ant 1	-	
11a	6Mbps	1	36	5180	12.60	-	-	24.00	-	0.69	-	Pass
11a	6Mbps	1	44	5220	12.30	-		24.00	-	0.69	-	Pass
11a	6Mbps	1	48	5240	12.20	-		24.00	-	0.69	-	Pass
HT20	MCS0	1	36	5180	12.60	-		24.00	-	0.69	-	Pass
HT20	MCS0	1	44	5220	12.20	-		24.00	-	0.69	-	Pass
HT20	MCS0	1	48	5240	12.30	-		24.00	-	0.69	-	Pass
HT40	MCS0	1	38	5190	12.40	-		24.00	-	0.69	-	Pass
HT40	MCS0	1	46	5230	12.50	-		24.00	-	0.69	-	Pass
VHT20	MCS0	1	36	5180	12.50	-		24.00	-	0.69	-	Pass
VHT20	MCS0	1	44	5220	12.10	-		24.00	-	0.69	-	Pass
VHT20	MCS0	1	48	5240	12.20	-		24.00	-	0.69	-	Pass
VHT40	MCS0	1	38	5190	12.30	-		24.00	-	0.69	-	Pass
VHT40	MCS0	1	46	5230	12.40	-		24.00	-	0.69	-	Pass
VHT80	MCS0	1	42	5210	12.10	-		24.00	-	0.69	-	Pass



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

FCC U-NII-1 single antenna														
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	-	Ant 1	-	SUM	Ant 1	-	Ant 1	-	
11a	6Mbps	1	36	5180	0.15	-	1.97	-	-	11.00	-	0.69	-	Pass
11a	6Mbps	1	44	5220	0.15	-	1.40	-		11.00	-	0.69	-	Pass
11a	6Mbps	1	48	5240	0.15	-	1.47	-		11.00	-	0.69	-	Pass
HT20	MCS0	1	36	5180	0.13	-	1.64	-		11.00	-	0.69	-	Pass
HT20	MCS0	1	44	5220	0.13	-	1.42	-		11.00	-	0.69	-	Pass
HT20	MCS0	1	48	5240	0.13	-	1.43	-		11.00	-	0.69	-	Pass
HT40	MCS0	1	38	5190	0.29	-	-1.14	-		11.00	-	0.69	-	Pass
HT40	MCS0	1	46	5230	0.29	-	-0.89	-		11.00	-	0.69	-	Pass
VHT80	MCS0	1	42	5210	0.55	-	-4.36	-	11.00	-	0.69	-	Pass	

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

U-NII-2A single antenna															
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	-	Ant 1	-	Ant 1	-	Ant 1	-	Ant 1	-	
11a	6Mbps	1	52	5260	16.68	-	20.26	-	23.22	-	29.22	-	23.98	-	-
11a	6Mbps	1	60	5300	16.68	-	20.20	-	23.22	-	29.22	-	23.98	-	
11a	6Mbps	1	64	5320	16.68	-	20.22	-	23.22	-	29.22	-	23.98	-	
HT20	MCS0	1	52	5260	17.73	-	20.40	-	23.49	-	29.49	-	23.98	-	
HT20	MCS0	1	60	5300	17.78	-	20.50	-	23.50	-	29.50	-	23.98	-	
HT20	MCS0	1	64	5320	17.73	-	20.49	-	23.49	-	29.49	-	23.98	-	
HT40	MCS0	1	54	5270	36.46	-	41.94	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.66	-	41.54	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	75.28	-	81.02	-	23.98	-	30.00	-	23.98	-	

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

FCC U-NII-2A single antenna													
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	-	SUM	Ant 1	-	Ant 1	-		
11a	6Mbps	1	52	5260	12.40	-	-	23.98	-	0.69	-	26.99	Pass
11a	6Mbps	1	60	5300	12.30	-		23.98	-	0.69	-	26.99	Pass
11a	6Mbps	1	64	5320	12.20	-		23.98	-	0.69	-	26.99	Pass
HT20	MCS0	1	52	5260	12.40	-		23.98	-	0.69	-	26.99	Pass
HT20	MCS0	1	60	5300	12.20	-		23.98	-	0.69	-	26.99	Pass
HT20	MCS0	1	64	5320	12.60	-		23.98	-	0.69	-	26.99	Pass
HT40	MCS0	1	54	5270	12.30	-		23.98	-	0.69	-	26.99	Pass
HT40	MCS0	1	62	5310	12.60	-		23.98	-	0.69	-	26.99	Pass
VHT20	MCS0	1	52	5260	12.30	-		23.98	-	0.69	-	26.99	Pass
VHT20	MCS0	1	60	5300	12.10	-		23.98	-	0.69	-	26.99	Pass
VHT20	MCS0	1	64	5320	12.50	-		23.98	-	0.69	-	26.99	Pass
VHT40	MCS0	1	54	5270	12.20	-		23.98	-	0.69	-	26.99	Pass
VHT40	MCS0	1	62	5310	12.50	-		23.98	-	0.69	-	26.99	Pass
VHT80	MCS0	1	58	5290	11.70	-		23.98	-	0.69	-	26.99	Pass

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

U-NII-2A single antenna														
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	-	Ant 1	-	SUM	Ant 1	-	Ant 1	-	
11a	6Mbps	1	52	5260	0.15	-	1.68	-	-	11.00	-	0.69	-	Pass
11a	6Mbps	1	60	5300	0.15	-	1.59	-		11.00	-	0.69	-	Pass
11a	6Mbps	1	64	5320	0.15	-	1.17	-		11.00	-	0.69	-	Pass
HT20	MCS0	1	52	5260	0.13	-	1.48	-		11.00	-	0.69	-	Pass
HT20	MCS0	1	60	5300	0.13	-	1.47	-		11.00	-	0.69	-	Pass
HT20	MCS0	1	64	5320	0.13	-	1.76	-		11.00	-	0.69	-	Pass
HT40	MCS0	1	54	5270	0.29	-	-1.11	-		11.00	-	0.69	-	Pass
HT40	MCS0	1	62	5310	0.29	-	-0.97	-		11.00	-	0.69	-	Pass
VHT80	MCS0	1	58	5290	0.55	-	-4.74	-	11.00	-	0.69	-	Pass	

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

U-NII-2C single antenna																
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	-	Ant 1	-	Ant 1	-	Ant 1	-	Ant 1	-	Ant 1	-
11a	6Mbps	1	100	5500	16.73	-	20.26	-	23.24	-	29.24	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.78	-	21.06	-	23.25	-	29.25	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.78	-	20.36	-	23.25	-	29.25	-	23.98	-	----	----
HT20	MCS0	1	100	5500	17.83	-	20.56	-	23.51	-	29.51	-	23.98	-	----	----
HT20	MCS0	1	116	5580	17.83	-	21.78	-	23.51	-	29.51	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.88	-	22.87	-	23.52	-	29.52	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.46	-	41.47	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.66	-	41.65	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.96	-	69.55	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	106	5530	75.16	-	81.18	-	23.98	-	30.00	-	23.98	-	----	----

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

FCC U-NII-2C single antenna													
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	-	SUM	Ant 1	-	Ant 1	-		
11a	6Mbps	1	100	5500	11.80	-	-	23.98	-	0.91	-	26.99	Pass
11a	6Mbps	1	116	5580	11.90	-		23.98	-	0.91	-	26.99	Pass
11a	6Mbps	1	140	5700	11.90	-		23.98	-	0.91	-	26.99	Pass
HT20	MCS0	1	100	5500	11.80	-		23.98	-	0.91	-	26.99	Pass
HT20	MCS0	1	116	5580	11.80	-		23.98	-	0.91	-	26.99	Pass
HT20	MCS0	1	140	5700	11.80	-		23.98	-	0.91	-	26.99	Pass
HT40	MCS0	1	102	5510	11.10	-		23.98	-	0.91	-	26.99	Pass
HT40	MCS0	1	110	5550	11.10	-		23.98	-	0.91	-	26.99	Pass
HT40	MCS0	1	134	5670	10.10	-		23.98	-	0.91	-	26.99	Pass
VHT20	MCS0	1	100	5500	11.70	-		23.98	-	0.91	-	26.99	Pass
VHT20	MCS0	1	116	5580	11.70	-		23.98	-	0.91	-	26.99	Pass
VHT20	MCS0	1	140	5700	11.70	-		23.98	-	0.91	-	26.99	Pass
VHT40	MCS0	1	102	5510	11.00	-		23.98	-	0.91	-	26.99	Pass
VHT40	MCS0	1	110	5550	11.00	-		23.98	-	0.91	-	26.99	Pass
VHT40	MCS0	1	134	5670	10.00	-		23.98	-	0.91	-	26.99	Pass
VHT80	MCS0	1	106	5530	11.60	-	23.98	-	0.91	-	26.99	Pass	

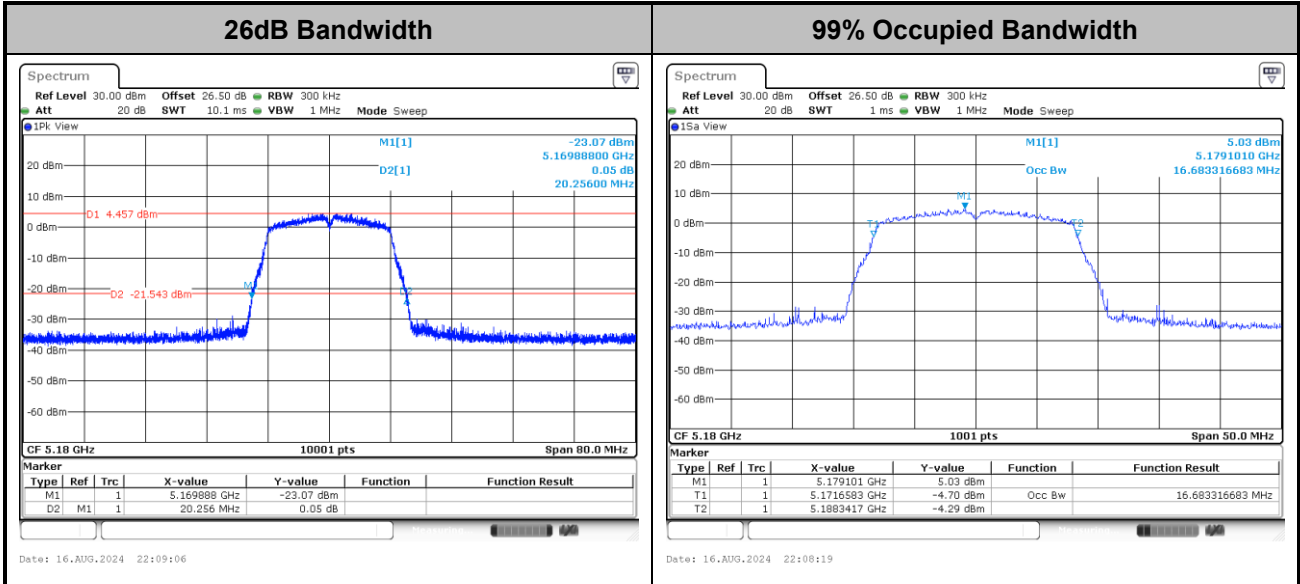
**TEST RESULTS DATA**  
**Power Spectral Density**

U-NII-2C single antenna														
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	-	Ant 1	-	SUM	Ant 1	-	Ant 1	-	
11a	6Mbps	1	100	5500	0.15	-	1.34	-	-	11.00	-	0.91	-	Pass
11a	6Mbps	1	116	5580	0.15	-	1.41	-		11.00	-	0.91	-	Pass
11a	6Mbps	1	140	5700	0.15	-	1.30	-		11.00	-	0.91	-	Pass
HT20	MCS0	1	100	5500	0.13	-	0.99	-		11.00	-	0.91	-	Pass
HT20	MCS0	1	116	5580	0.13	-	1.05	-		11.00	-	0.91	-	Pass
HT20	MCS0	1	140	5700	0.13	-	0.95	-		11.00	-	0.91	-	Pass
HT40	MCS0	1	102	5510	0.29	-	-2.46	-		11.00	-	0.91	-	Pass
HT40	MCS0	1	110	5550	0.29	-	-2.42	-		11.00	-	0.91	-	Pass
HT40	MCS0	1	134	5670	0.29	-	-3.66	-		11.00	-	0.91	-	Pass
VHT80	MCS0	1	106	5530	0.55	-	-5.00	-		11.00	-	0.91	-	Pass



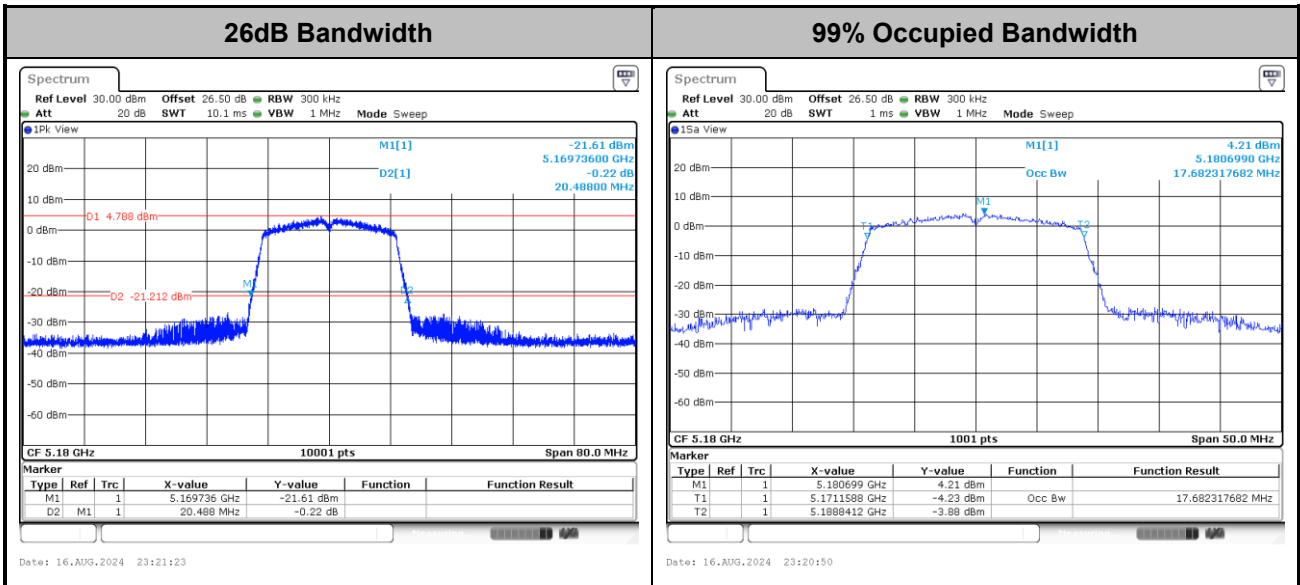
Test Result of 26dB & 99% Occupied Bandwidth

<802.11a>



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

<802.11n HT20>

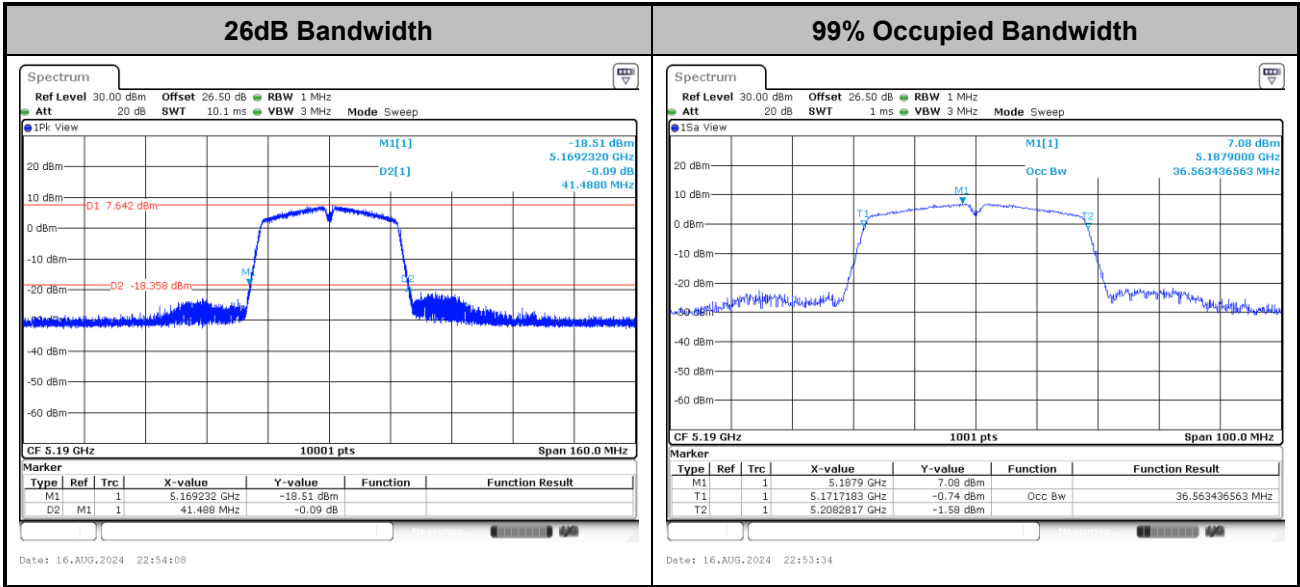


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



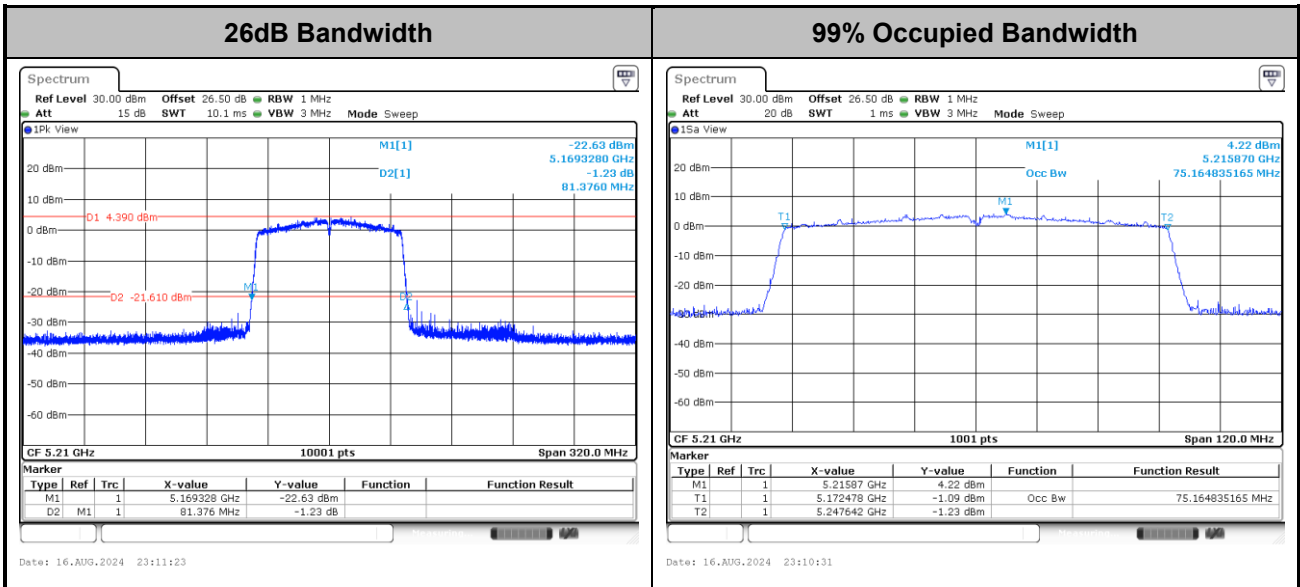


<802.11n HT40>



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

<802.11ac VHT80>

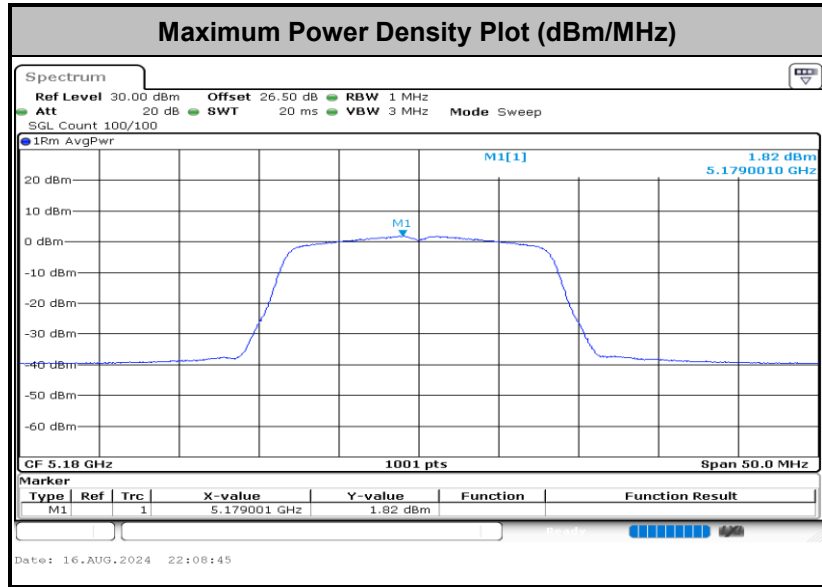


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

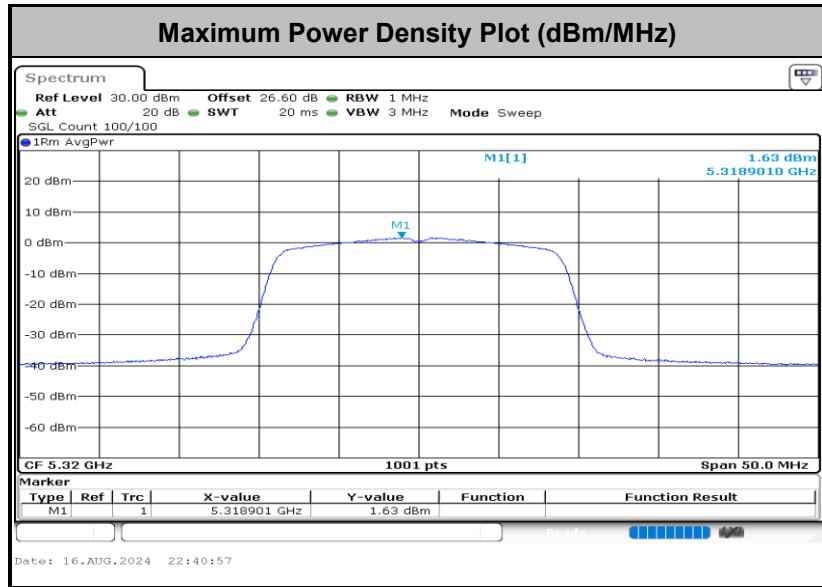


Test Result of Power Spectral Density

<802.11a>

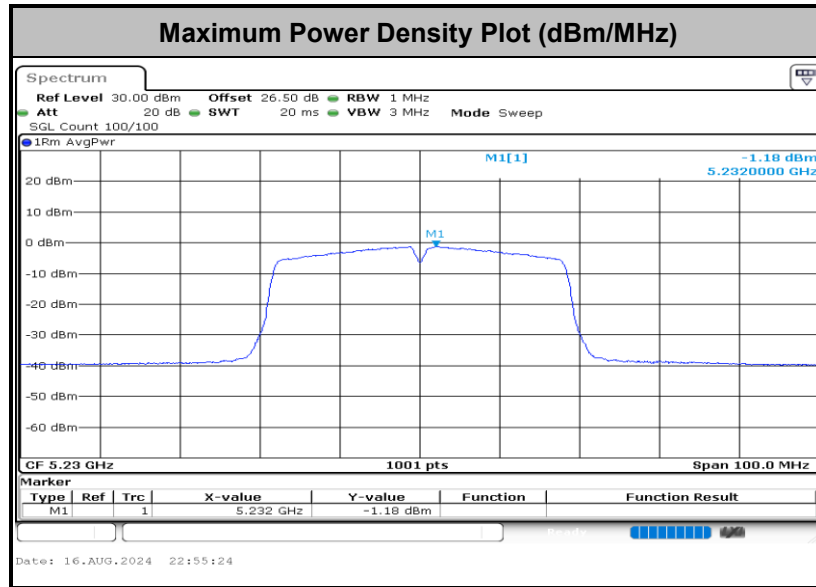


<802.11an HT20>

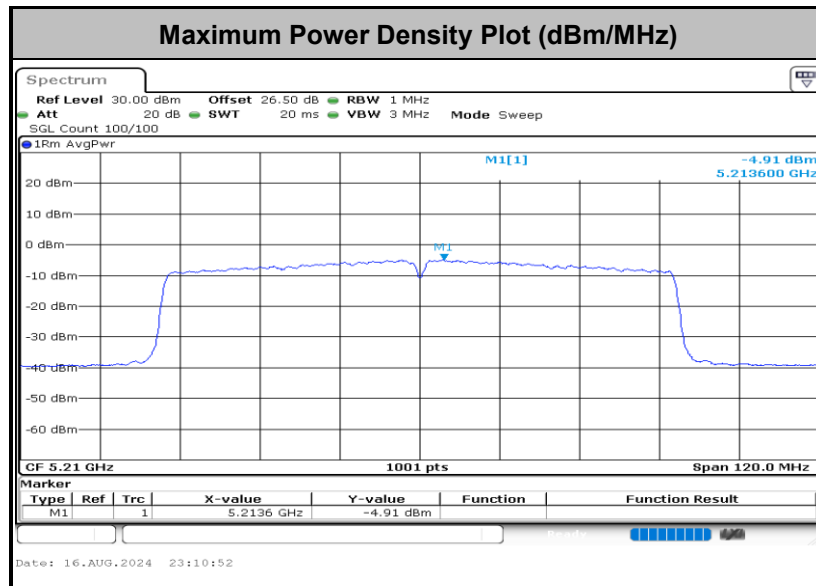




<802.11n HT40>



<802.11ac VHT80>





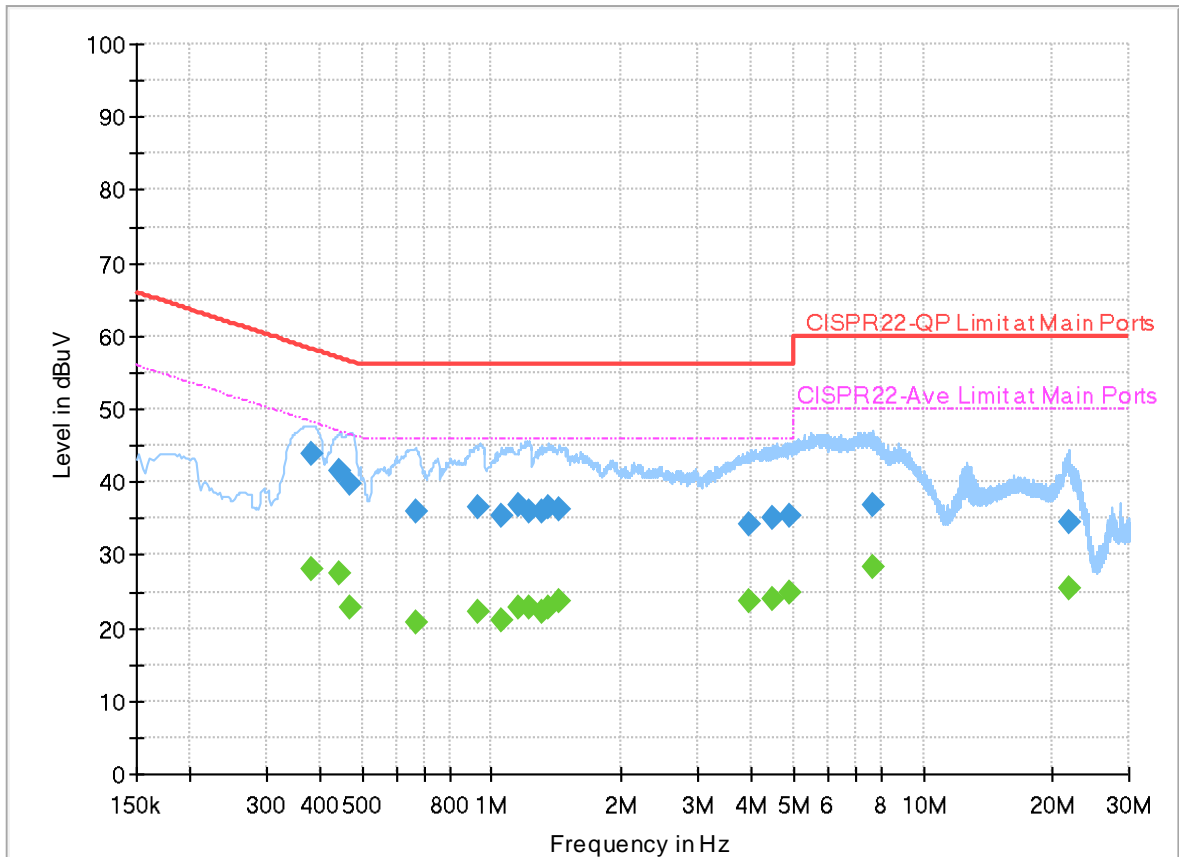
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	22.8~26.1°C
		Relative Humidity :	45.2~52.3%

### EUT Information

Report NO : 471715  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



### Final\_Result

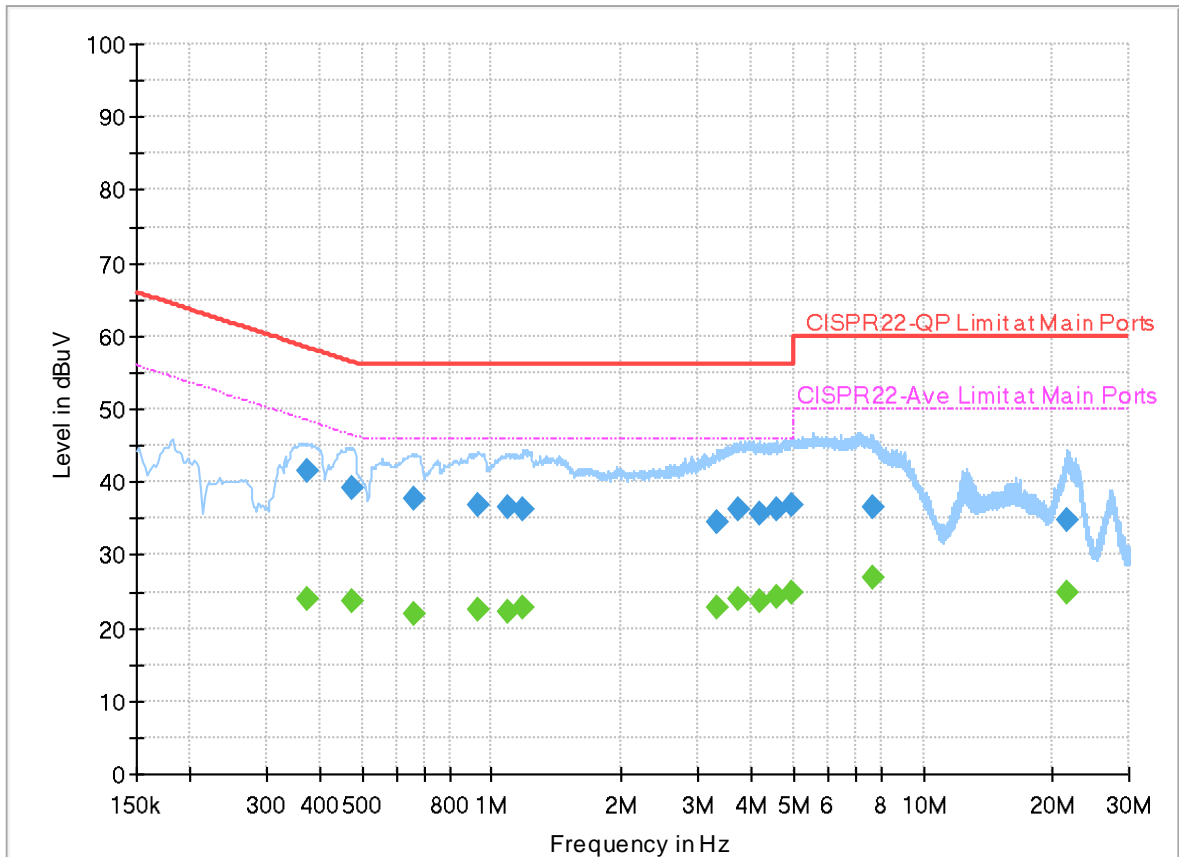
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.379860	---	27.94	48.28	20.34	L1	OFF	19.9
0.379860	43.73	---	58.28	14.55	L1	OFF	19.9
0.443580	---	27.37	46.99	19.62	L1	OFF	19.9
0.443580	41.63	---	56.99	15.36	L1	OFF	19.9
0.469500	---	22.86	46.52	23.66	L1	OFF	19.9
0.469500	39.89	---	56.52	16.63	L1	OFF	19.9
0.669750	---	20.67	46.00	25.33	L1	OFF	19.9
0.669750	36.02	---	56.00	19.98	L1	OFF	19.9
0.933000	---	22.16	46.00	23.84	L1	OFF	19.9
0.933000	36.64	---	56.00	19.36	L1	OFF	19.9
1.056750	---	21.16	46.00	24.84	L1	OFF	19.9
1.056750	35.31	---	56.00	20.69	L1	OFF	19.9
1.147110	---	22.83	46.00	23.17	L1	OFF	19.9
1.147110	36.88	---	56.00	19.12	L1	OFF	19.9
1.214250	---	22.91	46.00	23.09	L1	OFF	19.9
1.214250	36.08	---	56.00	19.92	L1	OFF	19.9
1.299930	---	22.34	46.00	23.66	L1	OFF	19.9
1.299930	35.88	---	56.00	20.12	L1	OFF	19.9
1.356000	---	22.94	46.00	23.06	L1	OFF	19.9

1.356000	36.69	---	56.00	19.31	L1	OFF	19.9
1.434570	---	23.81	46.00	22.19	L1	OFF	19.9
1.434570	36.24	---	56.00	19.76	L1	OFF	19.9
3.927750	---	23.58	46.00	22.42	L1	OFF	20.0
3.927750	34.23	---	56.00	21.77	L1	OFF	20.0
4.461990	---	24.02	46.00	21.98	L1	OFF	20.0
4.461990	35.01	---	56.00	20.99	L1	OFF	20.0
4.876980	---	24.98	46.00	21.02	L1	OFF	20.0
4.876980	35.50	---	56.00	20.50	L1	OFF	20.0
7.631250	---	28.27	50.00	21.73	L1	OFF	20.0
7.631250	36.72	---	60.00	23.28	L1	OFF	20.0
21.738570	---	25.35	50.00	24.65	L1	OFF	20.1
21.738570	34.51	---	60.00	25.49	L1	OFF	20.1

### EUT Information

Report NO : 471715  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



### Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.371490	---	24.11	48.47	24.36	N	OFF	19.9
0.371490	41.55	---	58.47	16.92	N	OFF	19.9
0.474360	---	23.57	46.44	22.87	N	OFF	19.9
0.474360	39.08	---	56.44	17.36	N	OFF	19.9
0.658950	---	21.93	46.00	24.07	N	OFF	19.9
0.658950	37.86	---	56.00	18.14	N	OFF	19.9
0.929670	---	22.63	46.00	23.37	N	OFF	19.9
0.929670	36.92	---	56.00	19.08	N	OFF	19.9
1.091760	---	22.15	46.00	23.85	N	OFF	19.9
1.091760	36.64	---	56.00	19.36	N	OFF	19.9
1.174650	---	22.79	46.00	23.21	N	OFF	19.9
1.174650	36.35	---	56.00	19.65	N	OFF	19.9
3.338250	---	22.76	46.00	23.24	N	OFF	20.0
3.338250	34.59	---	56.00	21.41	N	OFF	20.0
3.749550	---	23.85	46.00	22.15	N	OFF	20.0
3.749550	36.19	---	56.00	19.81	N	OFF	20.0
4.157790	---	23.83	46.00	22.17	N	OFF	20.0
4.157790	35.58	---	56.00	20.42	N	OFF	20.0
4.562790	---	24.34	46.00	21.66	N	OFF	20.0

4.562790	36.15	---	56.00	19.85	N	OFF	20.0
4.985160	---	24.97	46.00	21.03	N	OFF	20.0
4.985160	36.79	---	56.00	19.21	N	OFF	20.0
7.606500	---	26.83	50.00	23.17	N	OFF	20.0
7.606500	36.41	---	60.00	23.59	N	OFF	20.0
21.642540	---	24.85	50.00	25.15	N	OFF	20.2
21.642540	34.93	---	60.00	25.07	N	OFF	20.2





## Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Daniel Lee, Fu Chen and Troye Hsieh	Temperature :	20.1~21.8 °C
		Relative Humidity :	52.9~69.9 %

### C1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	1	802.11a Tx	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	1	802.11a Tx	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	1	802.11a Tx	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	1	802.11n HT20	36	5180	6Mbps	-	-
Mode 5	U-NII-1	5.15-5.25	1	802.11n HT20	44	5220	6Mbps	-	-
Mode 6	U-NII-1	5.15-5.25	1	802.11n HT20	48	5240	6Mbps	-	-
Mode 7	U-NII-1	5.15-5.25	1	802.11n HT40	38	5190	6Mbps	-	-
Mode 8	U-NII-1	5.15-5.25	1	802.11n HT40	46	5230	6Mbps	-	-
Mode 9	U-NII-1	5.15-5.25	1	802.11ac VHT80	42	5210	6Mbps	-	-
Mode 10	U-NII-2A	5.25-5.35	1	802.11a Tx	52	5260	6Mbps	-	-
Mode 11	U-NII-2A	5.25-5.35	1	802.11a Tx	60	5300	MCS0	-	-
Mode 12	U-NII-2A	5.25-5.35	1	802.11a Tx	64	5320	MCS0	-	-
Mode 13	U-NII-2A	5.25-5.35	1	802.11n HT20	52	5260	MCS0	-	-
Mode 14	U-NII-2A	5.25-5.35	1	802.11n HT20	60	5300	MCS0	-	-
Mode 15	U-NII-2A	5.25-5.35	1	802.11n HT20	64	5320	MCS0	-	-
Mode 16	U-NII-2A	5.25-5.35	1	802.11n HT40	54	5270	MCS0	-	-
Mode 17	U-NII-2A	5.25-5.35	1	802.11n HT40	62	5310	MCS0	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 18	U-NII-2A	5.25-5.35	1	802.11ac VHT80	58	5290	MCS0	-	-
Mode 19	U-NII-2C	5.15-5.25	1	802.11a Tx	100	5500	MCS0	-	-
Mode 20	U-NII-2C	5.15-5.25	1	802.11a Tx	116	5580	MCS0	-	-
Mode 21	U-NII-2C	5.15-5.25	1	802.11a Tx	140	5700	MCS0	-	-
Mode 22	U-NII-2C	5.15-5.25	1	802.11n HT20	100	5500	MCS0	-	-
Mode 23	U-NII-2C	5.15-5.25	1	802.11n HT20	116	5580	MCS0	-	-
Mode 24	U-NII-2C	5.15-5.25	1	802.11n HT20	140	5700	MCS0	-	-
Mode 25	U-NII-2C	5.15-5.25	1	802.11n HT40	102	5510	MCS0	-	-
Mode 26	U-NII-2C	5.15-5.25	1	802.11n HT40	110	5550	MCS0	-	-
Mode 27	U-NII-2C	5.15-5.25	1	802.11n HT40	134	5670	MCS0	-	-
Mode 28	U-NII-2C	5.15-5.25	1	802.11ac VHT80	106	5530	MCS0	-	-
Mode 29	U-NII-2A	5.25-5.35	1	802.11ac VHT80	58	5290	MCS0	-	LF
Mode 41	U-NII-2A	5.25-5.35	1	802.11ac VHT80	58	5290	MCS0	-	SHF

**C2. Summary of each worse mode**

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11a Tx	36	5147.96	45.87	54.00	-8.13	H	Avg.	Pass	-	Band Edge
	802.11a Tx	36	10360.00	47.17	68.20	-21.03	V	Peak	Pass	-	Harmonic
2	802.11a Tx	44	5143.22	44.56	54.00	-9.44	H	Avg.	Pass	-	Band Edge
	802.11a Tx	44	10440.00	46.11	68.20	-22.09	V	Peak	Pass	-	Harmonic
3	802.11a Tx	48	5145.20	44.16	54.00	-9.84	H	Avg.	Pass	-	Band Edge
	802.11a Tx	48	10480.00	47.40	68.20	-20.80	H	Peak	Pass	-	Harmonic
4	802.11n HT20	36	5149.22	45.52	54.00	-8.48	H	Avg.	Pass	-	Band Edge
	802.11n HT20	36	10360.00	47.07	68.20	-21.13	H	Peak	Pass	-	Harmonic
5	802.11n HT20	44	5146.08	44.24	54.00	-9.76	H	Avg.	Pass	-	Band Edge
	802.11n HT20	44	10440.00	46.91	68.20	-21.29	H	Peak	Pass	-	Harmonic
6	802.11n HT20	48	5144.96	43.88	54.00	-10.12	H	Avg.	Pass	-	Band Edge
	802.11n HT20	48	10480.00	47.81	68.20	-20.39	H	Peak	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
7	802.11n HT40	38	5148.77	50.04	54.00	-3.96	H	Avg.	Pass	-	Band Edge
	802.11n HT40	38	10380.00	47.40	68.20	-20.80	H	Peak	Pass	-	Harmonic
8	802.11n HT40	46	5149.96	44.73	54.00	-9.27	H	Avg.	Pass	-	Band Edge
	802.11n HT40	46	10460.00	47.11	68.20	-21.09	V	Peak	Pass	-	Harmonic
9	802.11ac VHT80	42	5149.94	50.55	54.00	-3.45	H	Avg.	Pass	-	Band Edge
	802.11ac VHT80	42	10420.00	47.02	68.20	-21.18	V	Peak	Pass	-	Harmonic
10	802.11a Tx	52	5087.88	43.52	54.00	-10.48	H	Avg.	Pass	-	Band Edge
	802.11a Tx	52	10520.00	45.55	68.20	-22.65	V	Peak	Pass	-	Harmonic
11	802.11a Tx	60	5353.76	44.41	54.00	-9.59	H	Avg.	Pass	-	Band Edge
	802.11a Tx	60	10600.00	45.80	74.00	-28.20	V	Peak	Pass	-	Harmonic
12	802.11a Tx	64	5350.24	45.91	54.00	-8.09	H	Avg.	Pass	-	Band Edge
	802.11a Tx	64	10640.00	46.27	74.00	-27.73	H	Peak	Pass	-	Harmonic
13	802.11n HT20	52	5090.48	43.48	54.00	-10.52	H	Avg.	Pass	-	Band Edge
	802.11n HT20	52	10520.00	47.40	68.20	-20.80	V	Peak	Pass	-	Harmonic
14	802.11n HT20	60	5351.52	44.34	54.00	-9.66	H	Avg.	Pass	-	Band Edge
	802.11n HT20	60	10600.00	46.97	74.00	-27.03	V	Peak	Pass	-	Harmonic

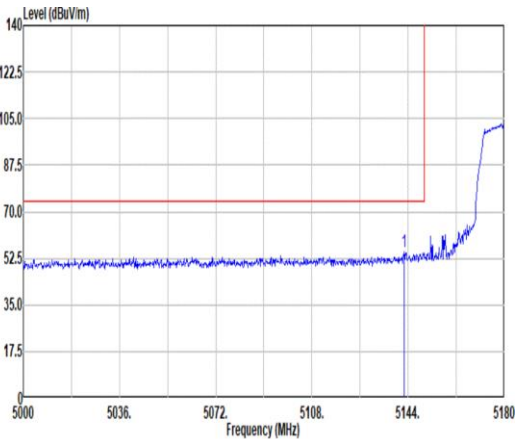
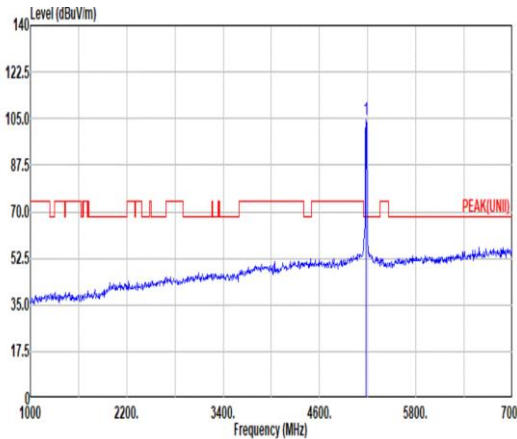
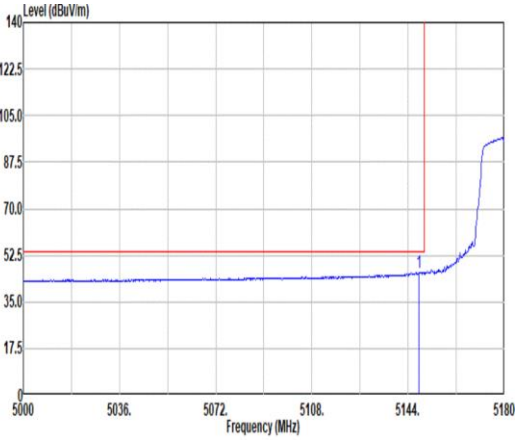
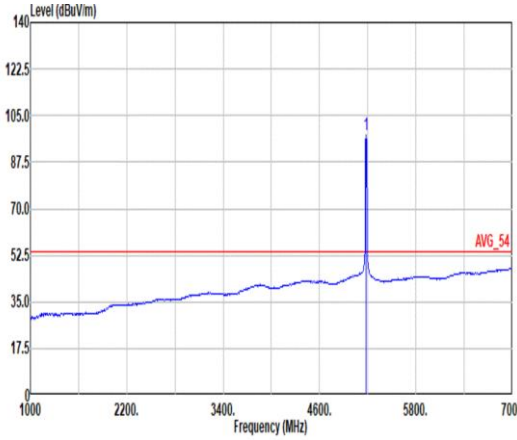


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
15	802.11n HT20	64	5351.22	46.21	54.00	-7.79	H	Avg.	Pass	-	Band Edge
	802.11n HT20	64	10640.00	46.38	74.00	-27.62	H	Peak	Pass	-	Harmonic
16	802.11n HT40	54	5098.01	44.02	54.00	-9.98	H	Avg.	Pass	-	Band Edge
	802.11n HT40	54	10540.00	47.16	68.20	-21.04	V	Peak	Pass	-	Harmonic
17	802.11n HT40	62	5350.05	49.89	54.00	-4.11	H	Avg.	Pass	-	Band Edge
	802.11n HT40	62	15930.00	46.62	74.00	-27.38	H	Peak	Pass	-	Harmonic
18	802.11ac VHT80	58	5350.01	51.68	54.00	-2.32	H	Avg.	Pass	-	Band Edge
	802.11ac VHT80	58	10580.00	45.48	68.20	-22.72	H	Peak	Pass	-	Harmonic
19	802.11a Tx	100	5459.95	45.07	54.00	-8.93	H	Avg.	Pass	-	Band Edge
	802.11a Tx	100	16500.00	47.33	68.20	-20.87	V	Peak	Pass	-	Harmonic
20	802.11a Tx	116	5458.79	41.66	54.00	-12.34	V	Avg.	Pass	-	Band Edge
	802.11a Tx	116	16740.00	47.84	68.20	-20.36	V	Peak	Pass	-	Harmonic
21	802.11a Tx	140	5726.00	60.06	68.20	-8.14	H	Peak	Pass	-	Band Edge
	802.11a Tx	140	17100.00	47.67	68.20	-20.53	H	Peak	Pass	-	Harmonic
22	802.11n HT20	100	5466.40	61.33	68.20	-6.87	V	Peak	Pass	-	Band Edge
	802.11n HT20	100	16500.00	47.56	68.20	-20.64	V	Peak	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
23	802.11n HT20	116	5459.25	42.89	54.00	-11.11	H	Avg.	Pass	-	Band Edge
	802.11n HT20	116	16740.00	47.99	68.20	-20.21	V	Peak	Pass	-	Harmonic
24	802.11n HT20	140	5725.03	62.07	68.20	-6.13	V	Peak	Pass	-	Band Edge
	802.11n HT20	140	17100.00	49.61	68.20	-18.59	H	Peak	Pass	-	Harmonic
25	802.11n HT40	102	5470.00	65.63	68.20	-2.57	V	Peak	Pass	-	Band Edge
	802.11n HT40	102	16530.00	47.43	68.20	-20.77	V	Peak	Pass	-	Harmonic
26	802.11n HT40	110	5459.60	43.76	54.00	-10.24	H	Avg.	Pass	-	Band Edge
	802.11n HT40	110	16650.00	47.75	68.20	-20.45	V	Peak	Pass	-	Harmonic
27	802.11n HT40	134	5727.67	57.24	68.20	-10.96	H	Peak	Pass	-	Band Edge
	802.11n HT40	134	17010.00	47.38	68.20	-20.82	V	Peak	Pass	-	Harmonic
28	802.11ac VHT80	106	5457.64	51.49	54.00	-2.51	H	Avg.	Pass	-	Band Edge
	802.11ac VHT80	106	16590.00	47.94	68.20	-20.26	V	Peak	Pass	-	Harmonic
29	LF	58	39.70	31.94	40.00	-8.06	V	QP	Pass	-	LF
41	SHF	58	39288.83	49.89	54.00	-4.11	H	Avg.	Pass	-	SHF



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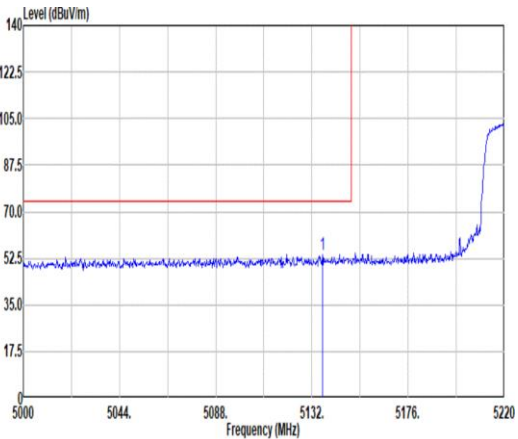
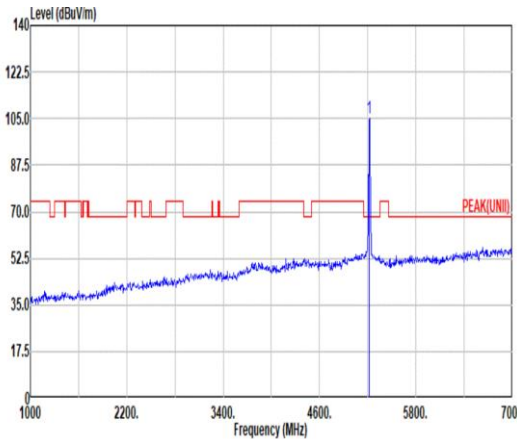
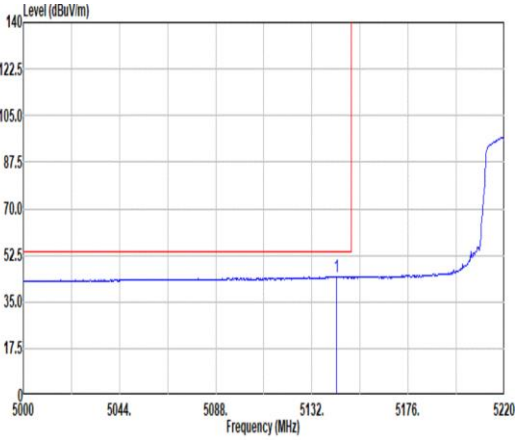
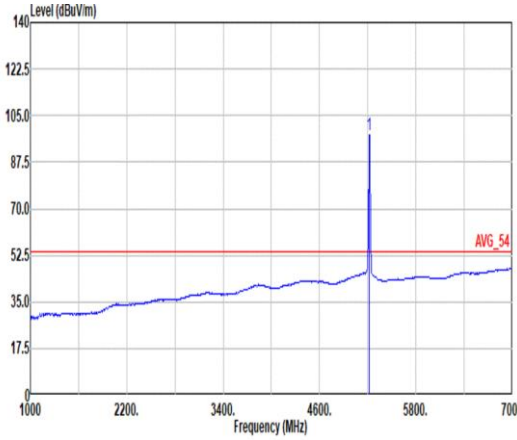


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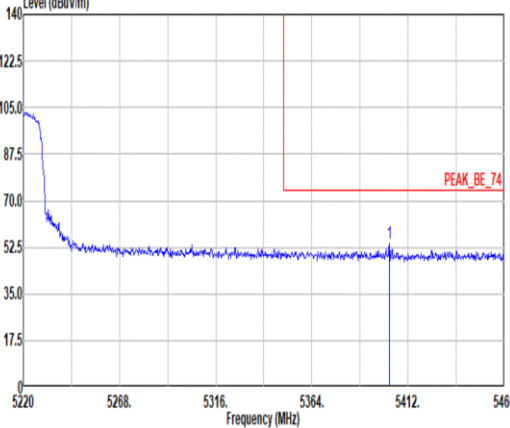
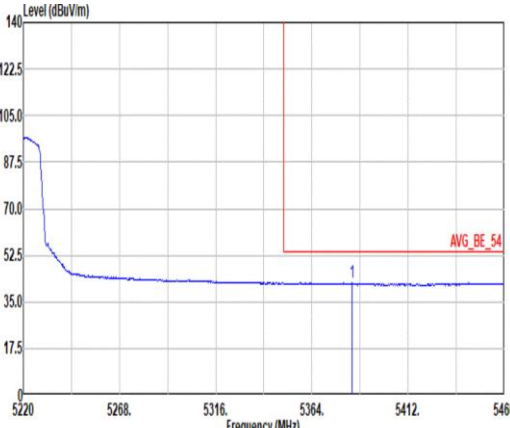


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<b>ANT</b>	1	
<b>Pol.</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>14.47G ~14.5G Avg</b>	<p>Site : 03CH11-HY Condition: AVG_54 3m 91200_01620_230817 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition: AVG_54 3m 91200_01620_230817 VERTICAL</p>
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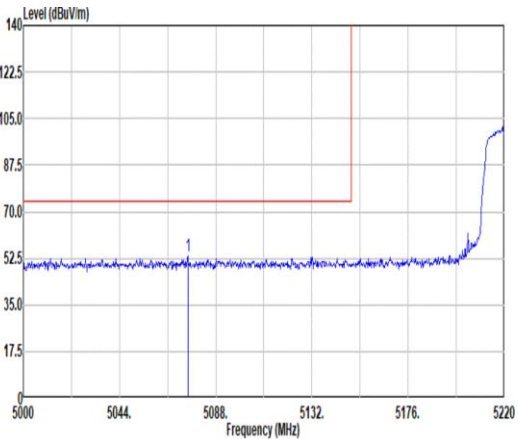
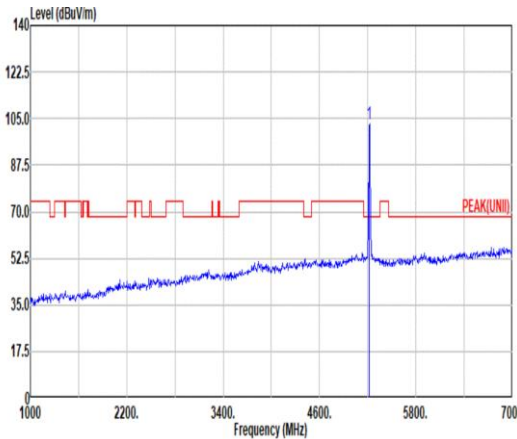
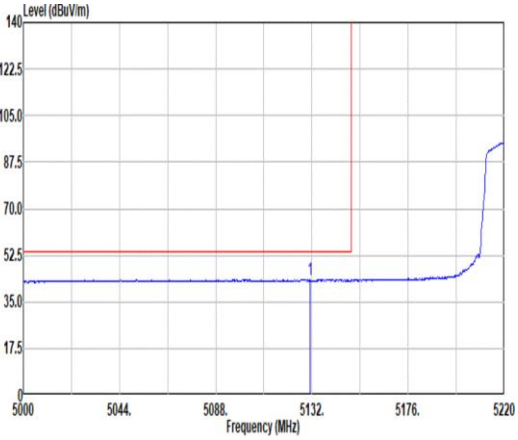
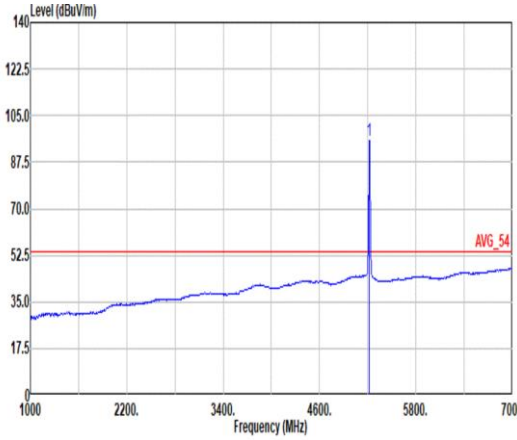


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<b>ANT</b>	1	
<b>Pol.</b>	<b>Horizontal</b>	<b>Vertical</b>
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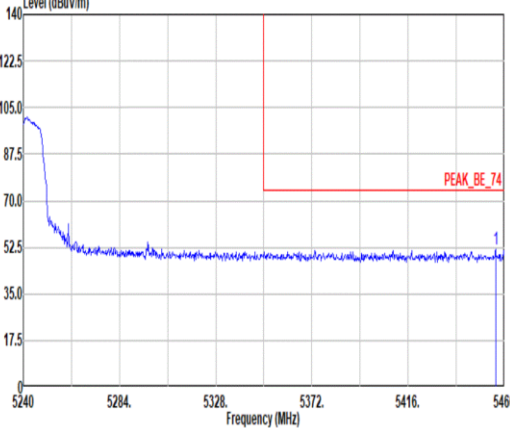
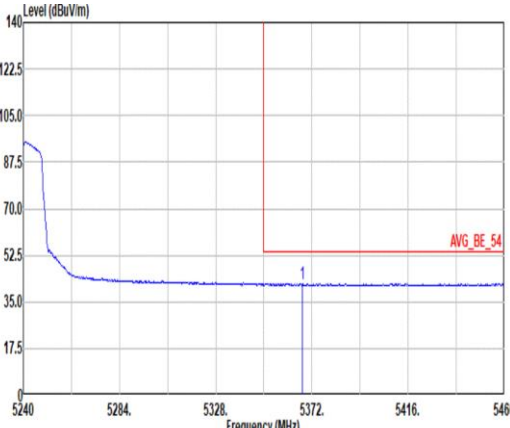


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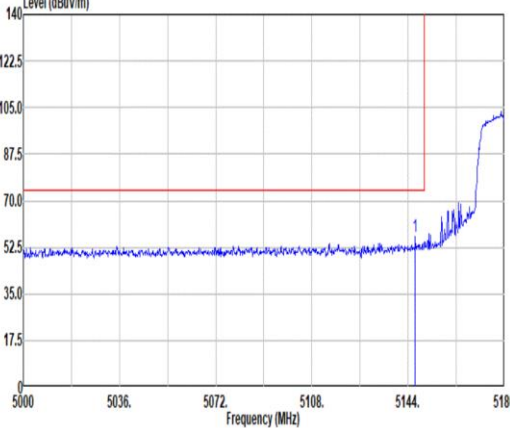
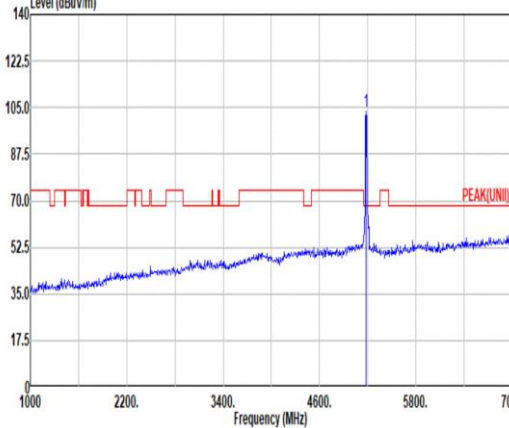
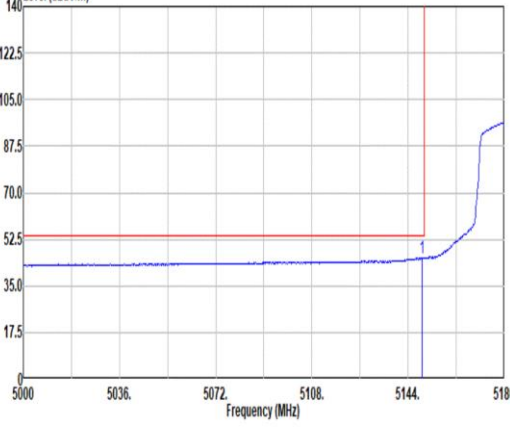
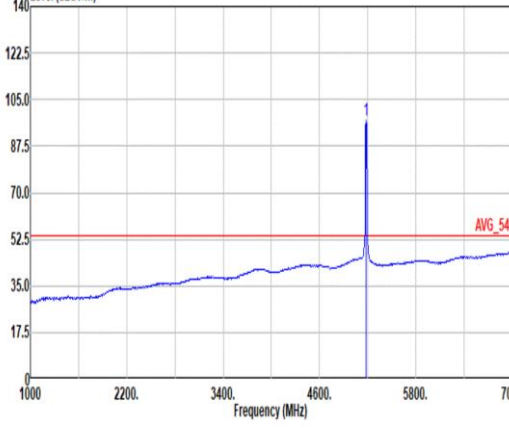


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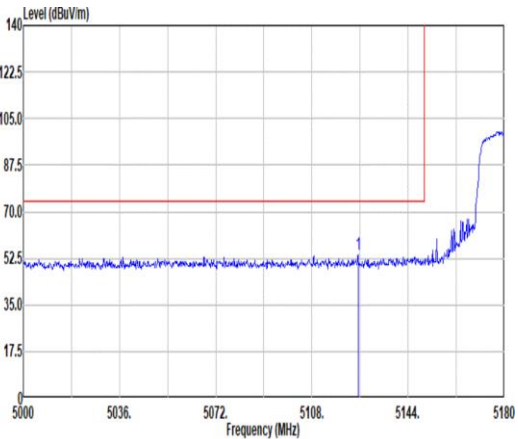
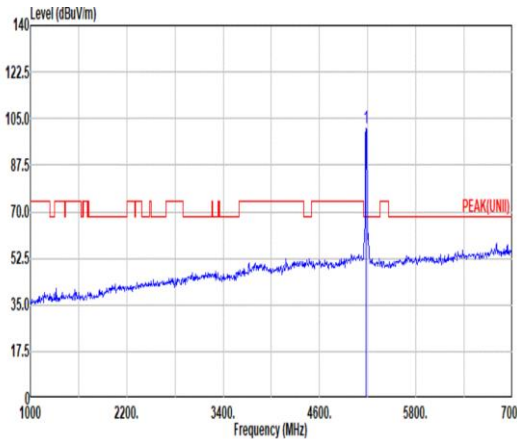
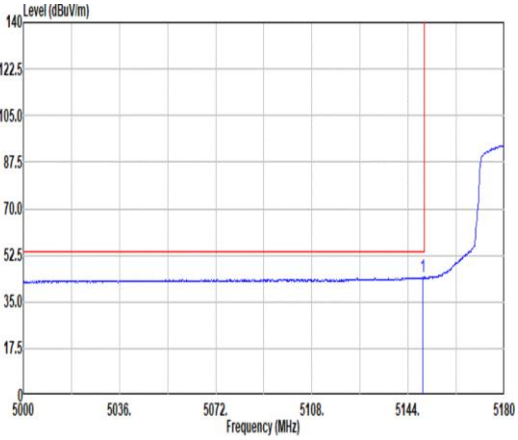
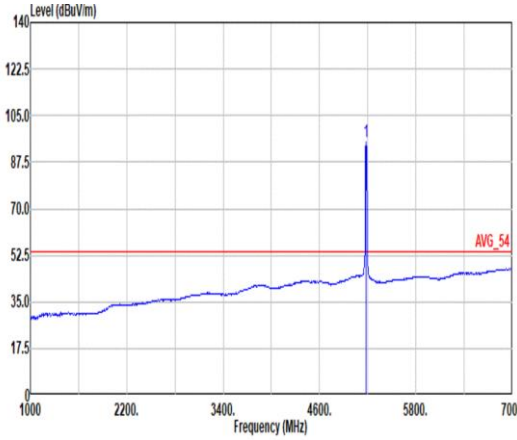


	<b>3</b>	
<b>Mode</b>	<b>Harmonic</b>	
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<b>ANT</b>	<b>1</b>	
<b>Pol.</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>14.47G ~14.5G Avg</b>	<p>Site : 03CH11-HY Condition: AVG_54 3m 91200_01620_230817 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition: AVG_54 3m 91200_01620_230817 VERTICAL</p>
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1	5149.50	44.43	54.00	-9.57	33.73	33.20	10.37	32.87	0.00	382	104	AVERAGE																																																																								
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1	5180.00	94.86	-----	-----	84.19	33.15	10.39	32.87	0.00	382	104	AVERAGE																																																																								





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<b>Mode</b>	<b>Harmonic</b>	
	<b>U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz</b>	
<b>ANT</b>	<b>1</b>	
<b>Pol.</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>14.47G</b> <b>~14.5G</b> <b>Avg</b>	<p>Site : 03CH11-HY Condition: AVG_54 3m 91200_01620_230817 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition: AVG_54 3m 91200_01620_230817 VERTICAL</p>
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