



# FCC RF Test Report

APPLICANT : MeiG Smart Technology Co., Ltd  
EQUIPMENT : CPE  
BRAND NAME : MEIGLink  
MODEL NAME : SLT866  
FCC ID : 2APJ4-SLT866  
STANDARD : FCC Part 15 Subpart E §15.407  
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure  
TEST DATE(S) : Oct. 16, 2022 ~ Nov. 14, 2022

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.

This report contains data that were produced under subcontract by Sporton International Inc. (ShenZhen).

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**



# TABLE OF CONTENTS

**REVISION HISTORY..... 3**

**SUMMARY OF TEST RESULT ..... 4**

**1 GENERAL DESCRIPTION ..... 5**

    1.1 Applicant ..... 5

    1.2 Manufacturer ..... 5

    1.3 Product Feature of Equipment Under Test ..... 5

    1.4 Product Specification of Equipment Under Test ..... 5

    1.5 Modification of EUT ..... 6

    1.6 Testing Location ..... 6

    1.7 Test Software ..... 7

    1.8 Applicable Standards ..... 7

**2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ..... 8**

    2.1 Carrier Frequency and Channel ..... 8

    2.2 Test Mode ..... 9

    2.3 Connection Diagram of Test System ..... 11

    2.4 Support Unit used in test configuration and system ..... 12

    2.5 EUT Operation Test Setup ..... 12

    2.6 Measurement Results Explanation Example ..... 12

**3 TEST RESULT ..... 13**

    3.1 26dB & 99% Occupied Bandwidth Measurement ..... 13

    3.2 Maximum Conducted Output Power Measurement ..... 17

    3.3 Power Spectral Density Measurement ..... 19

    3.4 Unwanted Emissions Measurement ..... 22

    3.5 AC Conducted Emission Measurement ..... 26

    3.6 Antenna Requirements ..... 28

**4 LIST OF MEASURING EQUIPMENT ..... 29**

**5 UNCERTAINTY OF EVALUATION ..... 30**

**APPENDIX A. CONDUCTED TEST RESULTS**

**APPENDIX B. AC CONDUCTED EMISSION TEST RESULT**

**APPENDIX C. RADIATED SPURIOUS EMISSION**

**APPENDIX D. RADIATED SPURIOUS EMISSION PLOTS**

**APPENDIX E. DUTY CYCLE PLOTS**

**APPENDIX F. SETUP PHOTOGRAPHS**





### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Report only	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm for UNII-1	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 17 dBm/MHz for UNII-1	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 3.10 dB at 5150.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 4.78 dB at 0.518 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Applicant

MeiG Smart Technology Co., Ltd  
2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen

## 1.2 Manufacturer

MeiG Smart Technology Co., Ltd  
2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	CPE
Brand Name	MEIGLink
Model Name	SLT866
FCC ID	2APJ4-SLT866
IMEI Code	Conducted: 864630066663518 Conduction: 864630066663344 Radiation: 864630066663484
HW Version	SLT866_V1.01_PCB
SW Version	SLT866_EQ100_C44_V1403
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz
Maximum Output Power to Antenna	<Ant.0> 802.11a : 15.26 dBm / 0.0336 W <MIMO Ant.0+1> 802.11n HT20 : 17.31 dBm / 0.0538 W 802.11n HT40 : 16.37 dBm / 0.0434 W 802.11ac VHT20 : 15.69 dBm / 0.0371 W 802.11ac VHT40 : 15.55 dBm / 0.0359 W 802.11ac VHT80 : 13.49 dBm / 0.0223 W
99% Occupied Bandwidth	<Ant.0> 802.11a : 16.53 MHz <MIMO Ant.0+1> 802.11n HT20 : 17.68 MHz 802.11n HT40 : 36.26 MHz 802.11ac VHT80 : 75.28 MHz
Antenna Type / Gain	<Ant. 0> : Fixed Internal Antenna with gain 1.4 dBi <Ant. 1> : Fixed Internal Antenna with gain 1.4 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

Note:



1. For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11n HT20/HT40 by referring to their maximum conducted power.
2. For WLAN SISO & MIMO (CDD) mode, the whole testing has assessed only MIMO mode by referring to the higher normal conducted power.

### 1.5 Modification of EUT

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

### 1.6 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 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-SZ	CN1256	421272

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH03-SZ	CN1256	421272

Test data subcontracted: conducted and radiation test items in section 3.1 ~ 3.4 of this report.



### 1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH03-SZ	AUDIX	E3	6.2009-8-24

### 1.8 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.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output 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 (Y 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)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

**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.

### MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT80	MCS0

RSE Co-location
LTE Band 48 Link + 802.11ac VHT80 CH42(5210MHz) Tx

Test Cases	
<b>AC Conducted Emission</b>	Mode 1 : LTE Band 5 Idle + WLAN Link(5G) + full load + Power from Adapter 1
<b>Remark:</b>	
<ol style="list-style-type: none"> <li>For Conducted Emission, the accessories are chosen from Part 15B worst case.</li> <li>RSE Co-location modes are combination from the worst WLAN TX mode and WWAN Link mode</li> </ol>	



Ch. #		U-NII-1 : 5180-5240 MHz
		802.11a
L	Low	36
M	Middle	44
H	High	48

Ch. #		U-NII-1 : 5180-5240 MHz
		802.11n HT20
L	Low	36
M	Middle	44
H	High	48

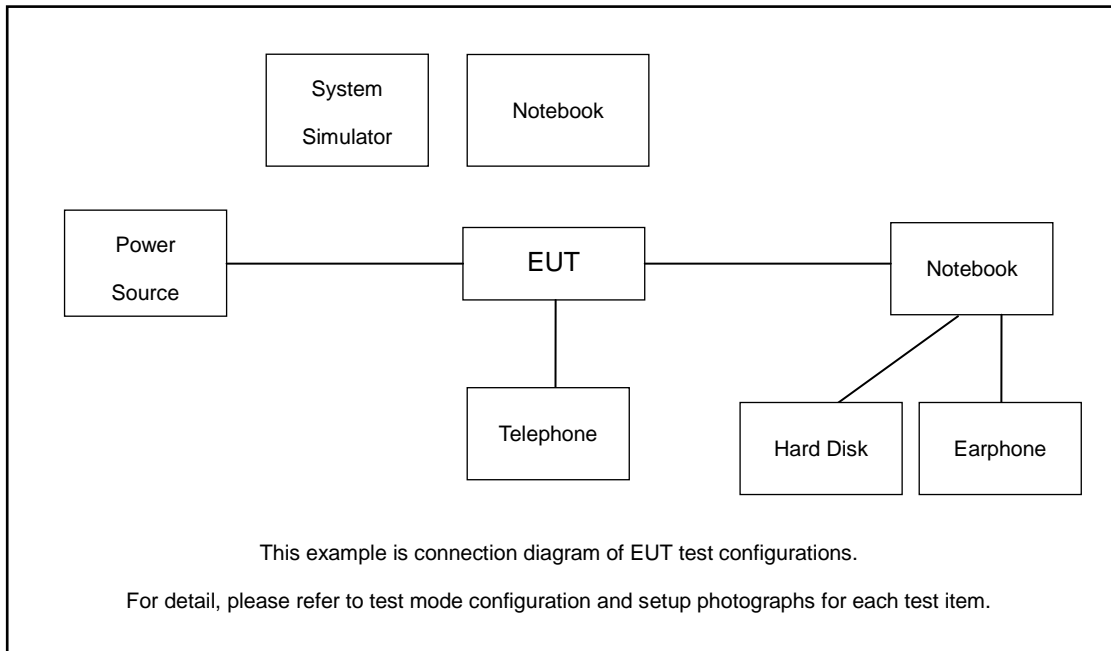
Ch. #		U-NII-1 : 5180-5240 MHz
		802.11n HT40
L	Low	38
M	Middle	-
H	High	46

Ch. #		U-NII-1 : 5180-5240 MHz
		802.11ac VHT80
L	Low	-
M	Middle	42
H	High	-

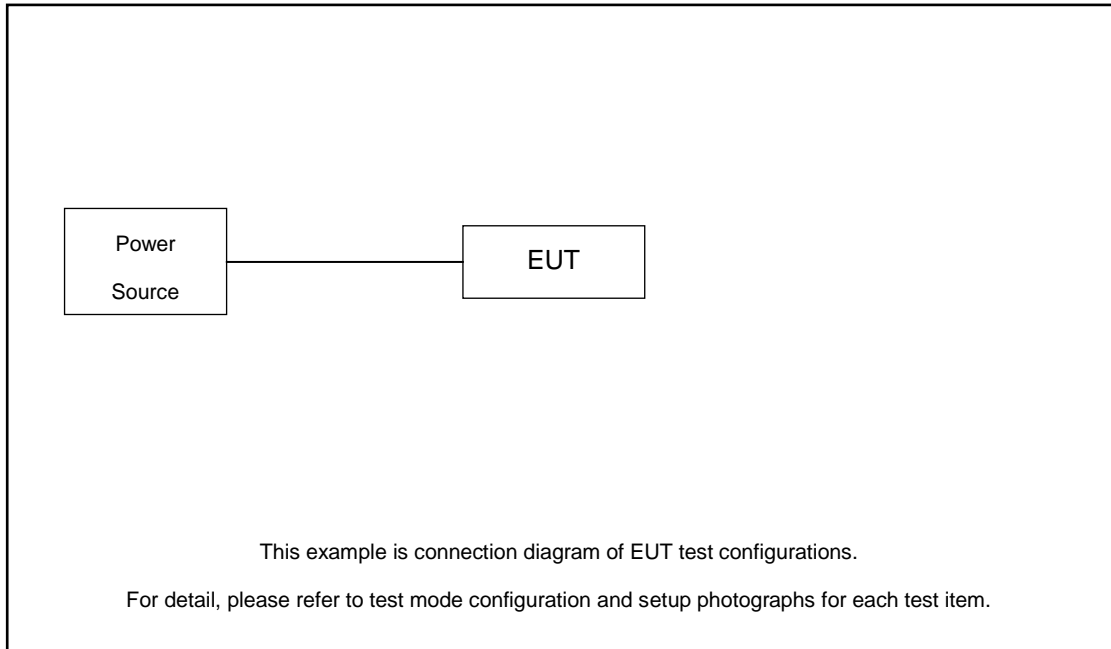
**Remark:** For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

## 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	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Telephone	bubugao	HCD007(6082)TSD	N/A	N/A	N/A
5.	Earphone	Lenovo	P121	N/A	N/A	Unshielded,1.2m
6.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A

## 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 Notebook 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 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 2.8 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 2.8 + 10 = 12.8 \text{ (dB)}
 \end{aligned}$$

### 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.

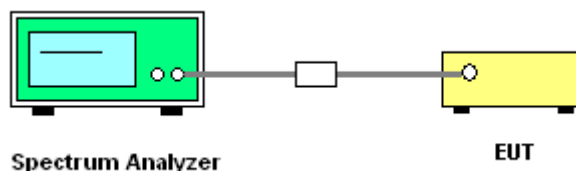
##### 3.1.2 Measuring Instruments

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
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% to 5% of the OBW and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
8. Measure and record the results in the test report.

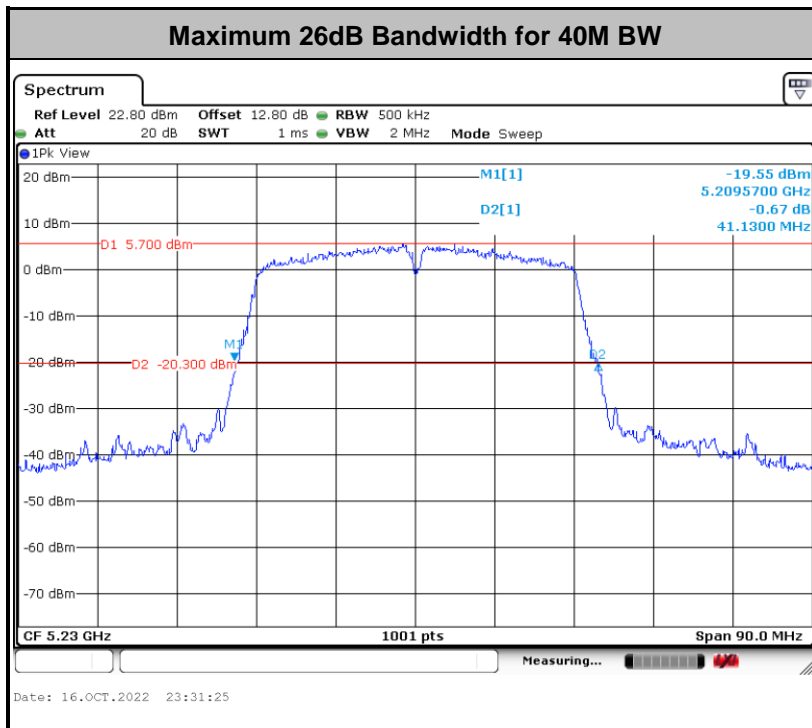
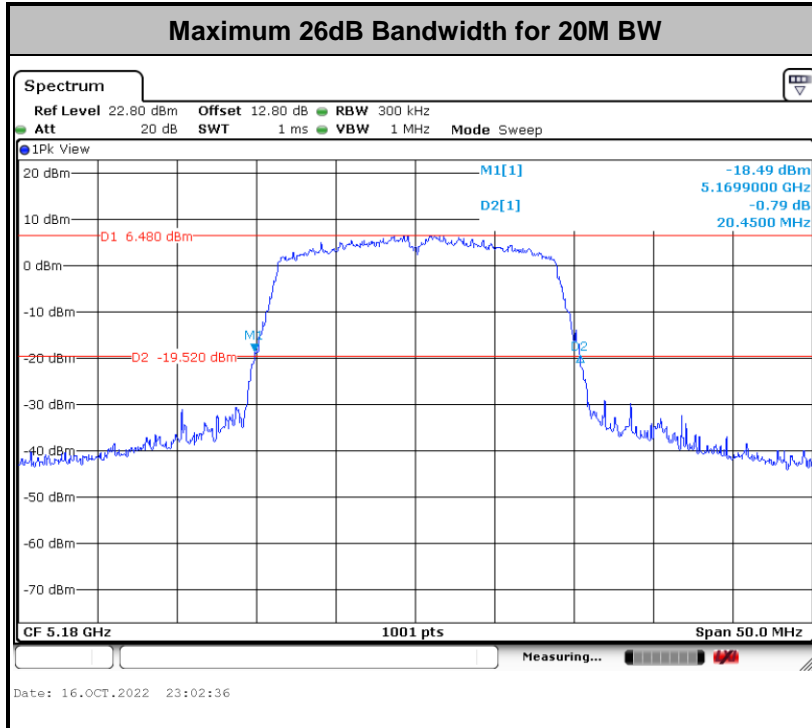
##### 3.1.4 Test Setup

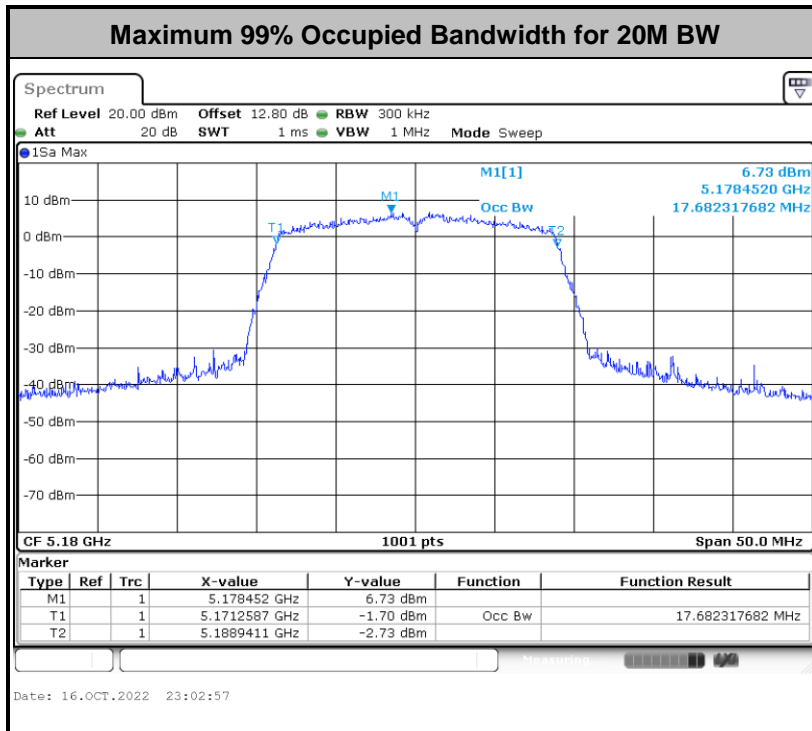
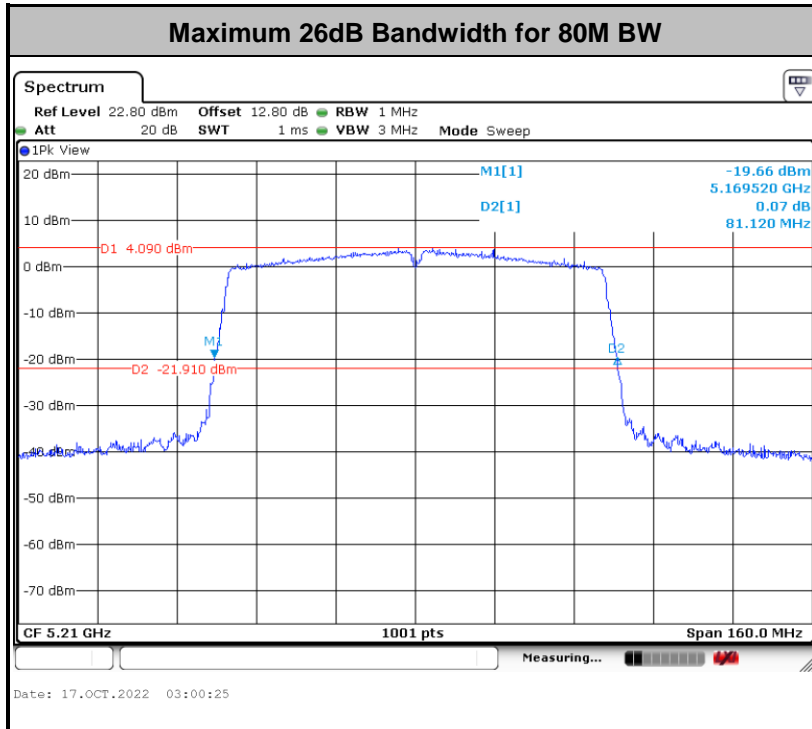


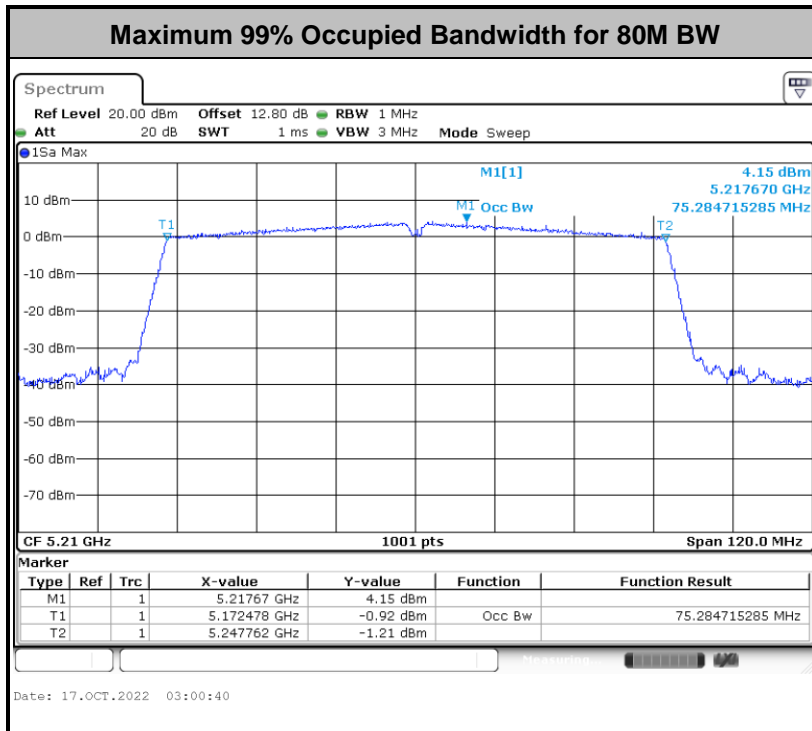
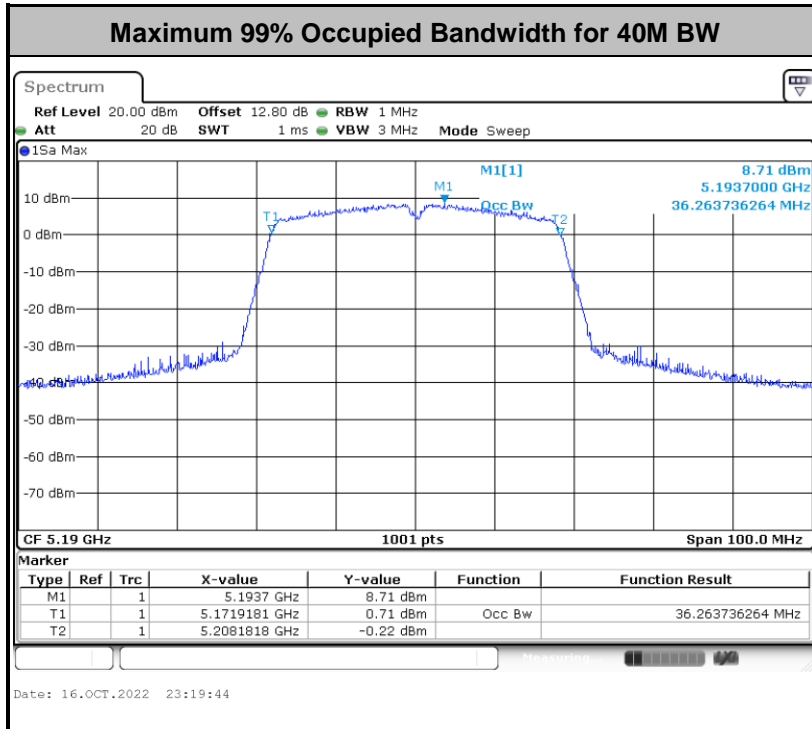


### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.







**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

<FCC 14-30 CFR 15.407>

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.

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

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

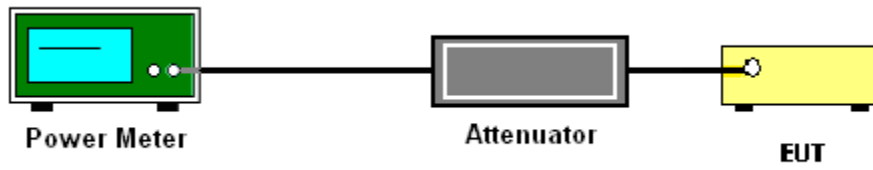
### 3.2.3 Test Procedures

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.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

### 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 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 megahertz 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

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 = 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 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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is the bin-by-bin summation to obtain the combined spectrum. For the device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

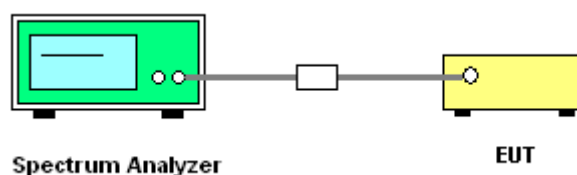
Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

Method (c): Measure and add  $10 \log(N_{ANT})$  dB, where  $N_{ANT}$  is the number of outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The quantity  $10 \log(N_{ANT})$  dB is added to each spectrum value before comparing to the emission limit.

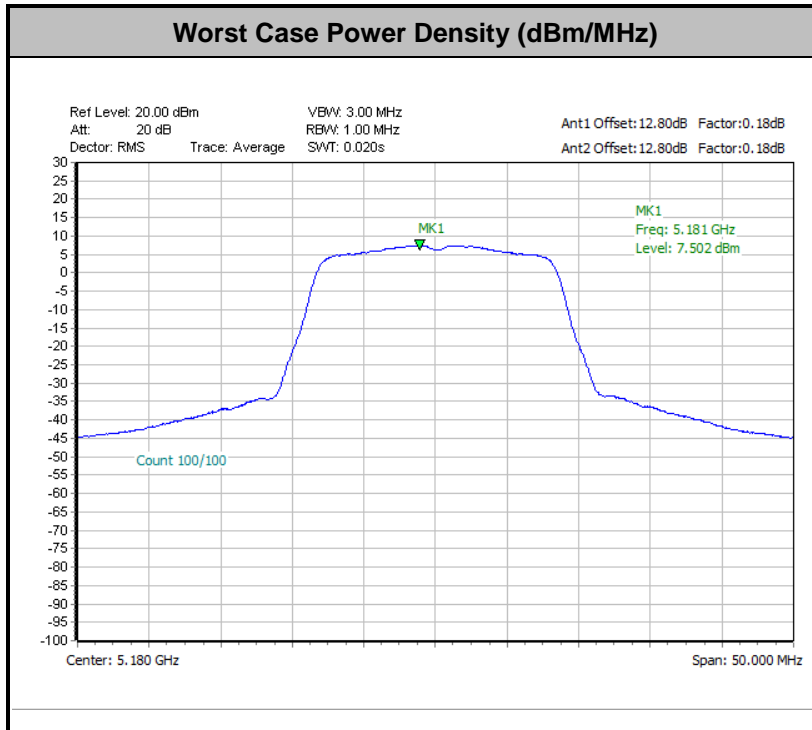
### 3.3.4 Test Setup





### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



**Note:** The duty factor has been included in the plot



### 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.
- (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	68.3

**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<sub>Meas</sub> is the field strength of the emission at the measurement distance, in dBµV/m

d<sub>Meas</sub> is the measurement distance, in m

#### 3.4.2 Measuring Instruments

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

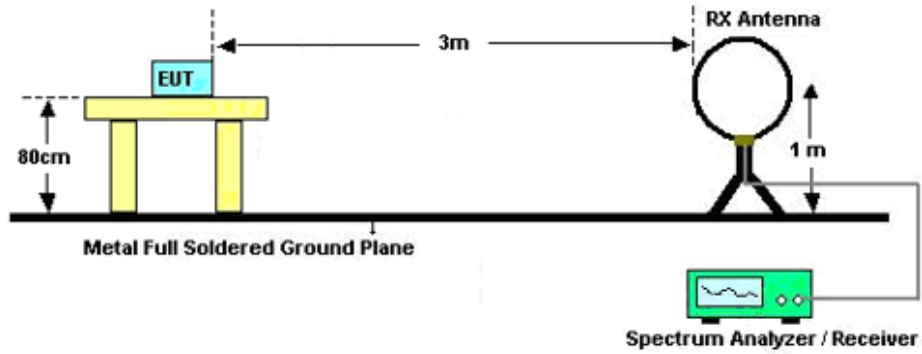


### 3.4.3 Test Procedures

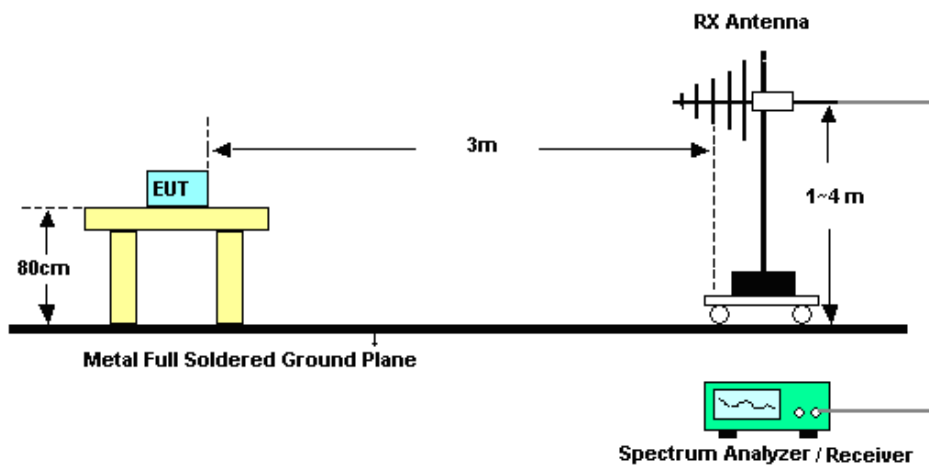
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure 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

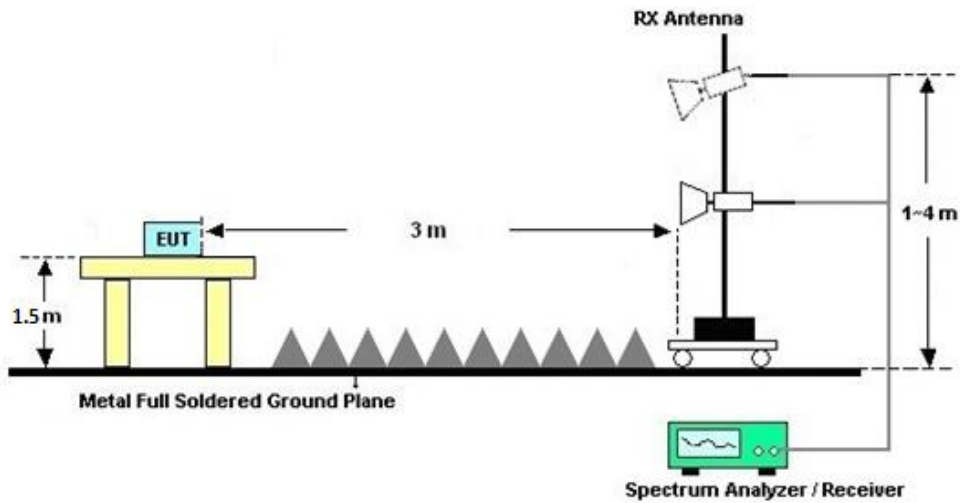


For radiated emissions from 30MHz to 1GHz





For radiated emissions above 1GHz



### 3.4.5 Test Results of Radiated Spurious 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 Spurious at Band Edges

Please refer to Appendix C&D.

### 3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C&D.



### 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.

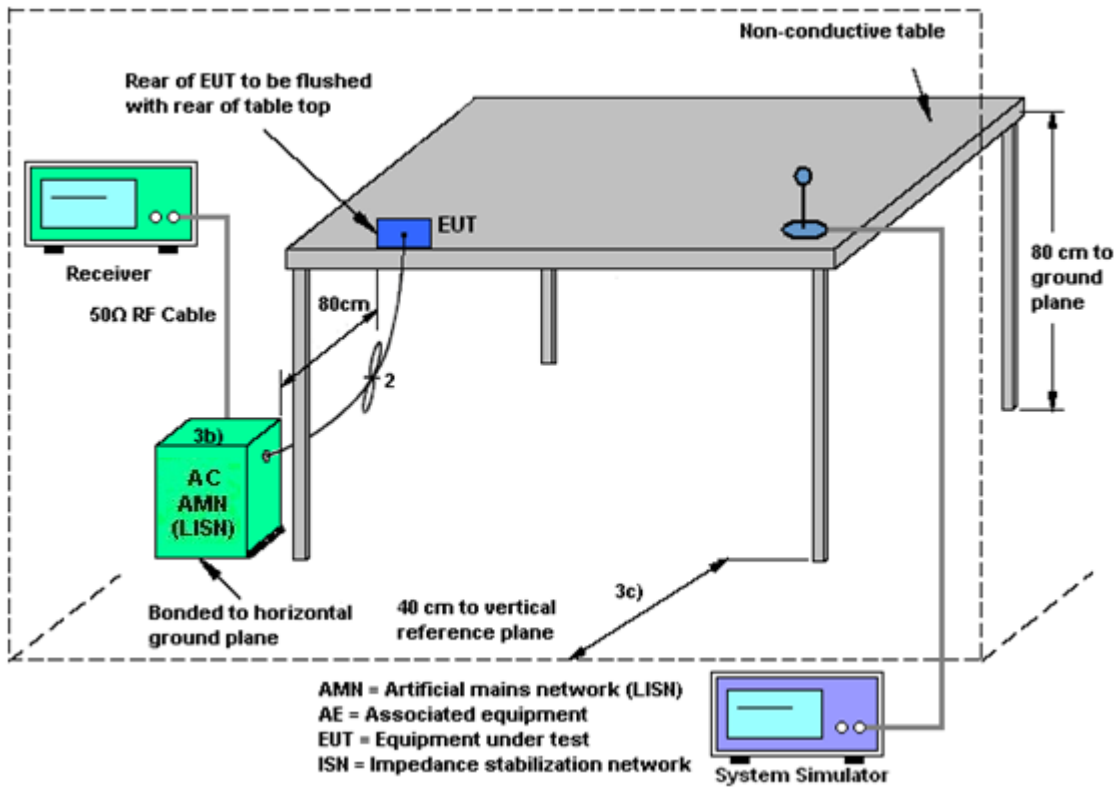
#### 3.5.2 Measuring Instruments

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 Antenna Requirements

#### 3.6.1 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.

#### 3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<b>&lt;CDD Modes&gt;</b>						
	<b>Ant. 0</b>	<b>Ant. 1</b>	<b>DG</b>	<b>DG</b>	<b>Power</b>	<b>PSD</b>
	<b>(dBi)</b>	<b>(dBi)</b>	<b>for</b>	<b>for</b>	<b>Limit</b>	<b>Limit</b>
			<b>Power</b>	<b>PSD</b>	<b>Reduction</b>	<b>Reduction</b>
			<b>(dBi)</b>	<b>(dBi)</b>	<b>(dB)</b>	<b>(dB)</b>
<b>Band I</b>	1.40	1.40	1.40	4.41	0.00	0.00

Power limit reduction = Composite gain – 6dBi, ( min = 0 )

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, ( min = 0 )



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Oct. 16, 2022~ Oct. 17, 2022	Apr. 08, 2023	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 28, 2021	Oct. 16, 2022~ Oct. 17, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 28, 2021	Oct. 16, 2022~ Oct. 17, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 06, 2022	Oct. 21, 2022~ Nov. 14, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 06, 2022	Oct. 21, 2022~ Nov. 14, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Oct. 21, 2022~ Nov. 14, 2022	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 09, 2021	Oct. 21, 2022~ Nov. 14, 2022	Aug. 08, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-135 5	1GHz~18GHz	Apr. 08, 2022	Oct. 21, 2022~ Nov. 14, 2022	Apr. 07, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	Oct. 21, 2022~ Nov. 14, 2022	Jul. 05, 2023	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 10, 2022	Oct. 21, 2022~ Nov. 14, 2022	Apr. 09, 2023	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 19, 2022	Oct. 21, 2022~ Nov. 14, 2022	Oct. 18, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Oct. 21, 2022~ Nov. 14, 2022	Oct. 18, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5GHz	Dec. 27, 2021	Oct. 21, 2022~ Nov. 14, 2022	Dec. 26, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002 729	1 N/A	Nov. 11, 2021	Oct. 21, 2022~ Nov. 14, 2022	Nov. 10, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002 729	1 N/A	Nov. 10, 2022		Nov. 09, 2023	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 21, 2022~ Nov. 14, 2022	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 21, 2022~ Nov. 14, 2022	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	May 24, 2022	Oct. 27, 2022	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Oct. 27, 2022	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Oct. 27, 2022	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Oct. 27, 2022	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required



## 5 Uncertainty of Evaluation

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	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %
Conducted Power Spectral Density	±1.32 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.78dB
---	--------

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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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))	4.9dB
---	-------

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

----- THE END -----



## Appendix A. Conducted Test Results

Test Engineer:	Zheng jianhan	Temperature:	21~25	°C
Test Date:	2022/10/16~2022/10/17	Relative Humidity:	51~54	%



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

U-NII-1													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	36	5180	16.48	-	19.85	-	-	-	-	22.17	
11a	6Mbps	1	44	5220	16.53	-	19.85	-	-	-	-	22.18	
11a	6Mbps	1	48	5240	16.53	-	19.90	-	-	-	-	22.18	
HT20	MCS0	2	36	5180	17.53	17.68	20.30	20.45	-	-	-	22.44	
HT20	MCS0	2	44	5220	17.63	17.68	20.25	20.45	-	-	-	22.46	
HT20	MCS0	2	48	5240	17.58	17.68	20.20	20.40	-	-	-	22.45	
HT40	MCS0	2	38	5190	36.26	36.16	40.14	40.59	-	-	-	23.01	
HT40	MCS0	2	46	5230	36.16	36.16	40.41	41.13	-	-	-	23.01	
VHT80	MCS0	2	42	5210	75.16	75.28	80.48	81.12	-	-	-	23.01	

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

U-NII-1														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	36	5180	0.18		15.26				30.00		1.40	Pass
11a	6Mbps	1	44	5220	0.18		15.03				30.00		1.40	Pass
11a	6Mbps	1	48	5240	0.18		15.01				30.00		1.40	Pass
HT20	MCS0	2	36	5180	0.21	0.19	12.63	13.44	16.06		30.00		1.40	Pass
HT20	MCS0	2	44	5220	0.21	0.19	14.02	14.56	17.31		30.00		1.40	Pass
HT20	MCS0	2	48	5240	0.21	0.19	14.04	14.40	17.23		30.00		1.40	Pass
HT40	MCS0	2	38	5190	0.42	0.39	12.24	12.87	15.58		30.00		1.40	Pass
HT40	MCS0	2	46	5230	0.42	0.39	13.18	13.53	16.37		30.00		1.40	Pass
VHT20	MCS0	2	36	5180	0.36	0.37	12.52	12.84	15.69		30.00		1.40	Pass
VHT20	MCS0	2	44	5220	0.36	0.37	12.29	12.40	15.36		30.00		1.40	Pass
VHT20	MCS0	2	48	5240	0.36	0.37	12.14	12.34	15.25		30.00		1.40	Pass
VHT40	MCS0	2	38	5190	0.69	0.69	12.21	12.85	15.55		30.00		1.40	Pass
VHT40	MCS0	2	46	5230	0.69	0.69	12.15	12.30	15.24		30.00		1.40	Pass
VHT80	MCS0	2	42	5210	0.46	0.44	10.29	10.65	13.49		30.00		1.40	Pass

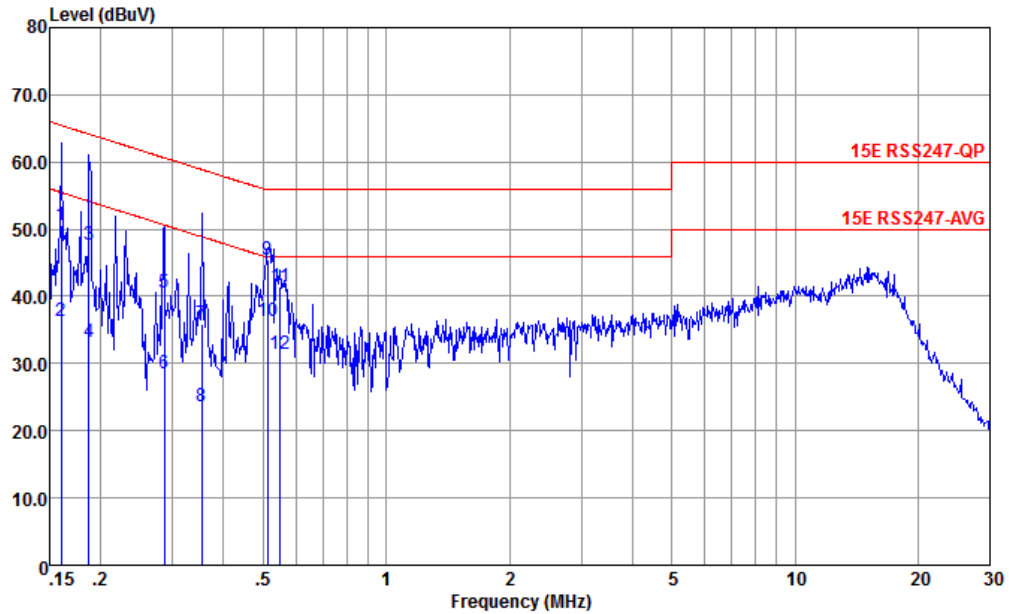
**TEST RESULTS DATA**  
**Power Spectral Density**

U-NII-1														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	36	5180	0.18		4.60				17.00		1.40	Pass
11a	6Mbps	1	44	5220	0.18		4.68				17.00		1.40	Pass
11a	6Mbps	1	48	5240	0.18		4.37				17.00		1.40	Pass
11a	6Mbps	2	36	5180	0.18	0.18			7.50	17.00			4.41	Pass
11a	6Mbps	2	44	5220	0.18	0.18			7.36	17.00			4.41	Pass
11a	6Mbps	2	48	5240	0.18	0.18			7.01	17.00			4.41	Pass
HT20	MCS0	2	36	5180	0.21	0.19			6.82	17.00			4.41	Pass
HT20	MCS0	2	44	5220	0.21	0.19			6.78	17.00			4.41	Pass
HT20	MCS0	2	48	5240	0.21	0.19			6.35	17.00			4.41	Pass
HT40	MCS0	2	38	5190	0.42	0.39			2.90	17.00			4.41	Pass
HT40	MCS0	2	46	5230	0.42	0.39			2.98	17.00			4.41	Pass
VHT80	MCS0	2	42	5210	0.46	0.44			-1.73	17.00			4.41	Pass



## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

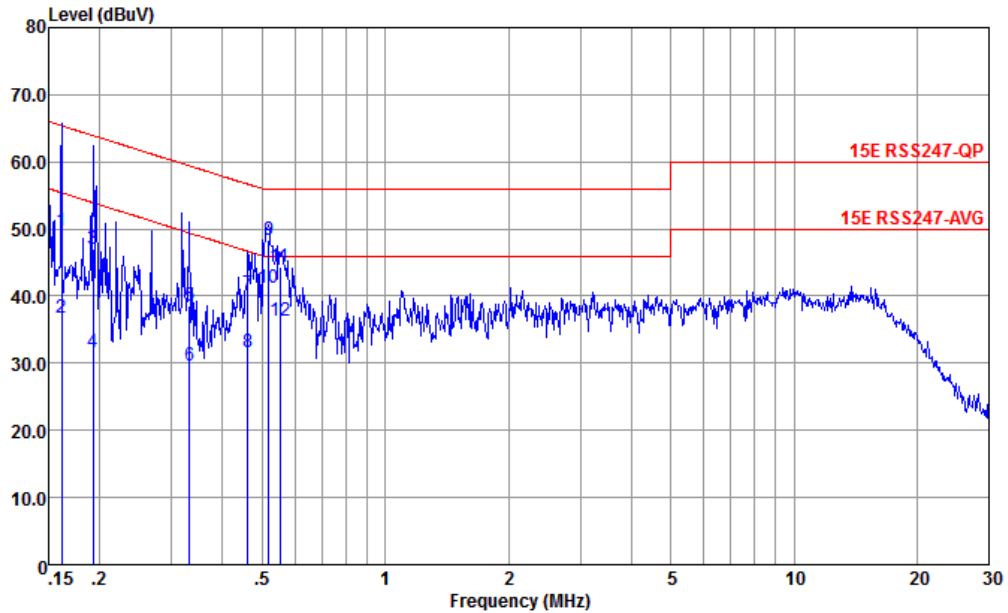


Site : CO01-KS  
 Condition : 15E RSS247-QP LISN-060105-LINE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	dBuV	dBuV	Factor	Loss	
			dB			dB	dB	
1	0.160	50.69	-14.78	65.47	40.20	0.06	10.43	QP
2	0.160	36.39	-29.08	65.47	25.90	0.06	10.43	Average
3	0.187	47.65	-16.50	64.15	37.20	0.03	10.42	QP
4	0.187	33.25	-30.90	64.15	22.80	0.03	10.42	Average
5	0.286	40.61	-20.02	60.63	30.19	0.06	10.36	QP
6	0.286	28.61	-32.02	60.63	18.19	0.06	10.36	Average
7	0.354	35.95	-22.92	58.87	25.60	0.03	10.32	QP
8	0.354	23.65	-35.22	58.87	13.30	0.03	10.32	Average
9 *	0.513	45.37	-10.63	56.00	35.19	-0.03	10.21	QP
10	0.513	36.37	-19.63	56.00	26.19	-0.03	10.21	Average
11	0.549	41.35	-14.65	56.00	31.20	-0.05	10.20	QP
12	0.549	31.35	-24.65	56.00	21.20	-0.05	10.20	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : 15E RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.162	49.66	-15.72	65.38	39.19	0.04	10.43	QP
2	0.162	36.66	-18.72	55.38	26.19	0.04	10.43	Average
3	0.192	47.07	-16.86	63.93	36.60	0.05	10.42	QP
4	0.192	31.67	-22.26	53.93	21.20	0.05	10.42	Average
5	0.332	38.48	-20.92	59.40	28.21	-0.06	10.33	QP
6	0.332	29.58	-19.82	49.40	19.31	-0.06	10.33	Average
7	0.461	40.37	-16.30	56.67	30.21	-0.08	10.24	QP
8	0.461	31.67	-15.00	46.67	21.51	-0.08	10.24	Average
9	0.518	48.42	-7.58	56.00	38.30	-0.08	10.20	QP
10 *	0.518	41.22	-4.78	46.00	31.10	-0.08	10.20	Average
11	0.552	44.31	-11.69	56.00	34.19	-0.08	10.20	QP
12	0.552	36.31	-9.69	46.00	26.19	-0.08	10.20	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



## Appendix C. Radiated Spurious Emission

### Band 1 - 5150~5250MHz WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 36 5180MHz		5149.24	53.79	-20.21	74	44.19	34.54	7.91	32.85	136	151	P	H
		5148.72	46.53	-7.47	54	36.93	34.54	7.91	32.85	136	151	A	H
	*	5180	108.39	-	-	98.82	34.53	7.93	32.89	136	151	P	H
		5180	102.12	-	-	92.55	34.53	7.93	32.89	136	151	A	H
		5137.54	57.5	-16.5	74	47.86	34.54	7.91	32.81	197	180	P	V
		5147.68	50.88	-3.12	54	41.28	34.54	7.91	32.85	197	180	A	V
	*	5180	114.14	-	-	104.57	34.53	7.93	32.89	197	180	P	V
		5180	107.72	-	-	98.15	34.53	7.93	32.89	197	180	A	V
802.11a CH 48 5240MHz		5147.42	51.68	-22.32	74	42.08	34.54	7.91	32.85	100	150	P	H
		5144.04	43.27	-10.73	54	33.67	34.54	7.91	32.85	100	150	A	H
	*	5240	107.6	-	-	98.02	34.5	8.06	32.98	100	150	P	H
		5240	101.7	-	-	92.12	34.5	8.06	32.98	100	150	A	H
		5352.72	50.66	-23.34	74	41.01	34.46	8.38	33.19	100	150	P	H
		5350.08	41.59	-12.41	54	31.94	34.46	8.38	33.19	100	150	A	H
		5134.16	54.53	-19.47	74	44.88	34.55	7.91	32.81	195	198	P	V
		5148.72	46.2	-7.8	54	36.6	34.54	7.91	32.85	195	198	A	V
	*	5240	114.46	-	-	104.88	34.5	8.06	32.98	195	198	P	V
		5240	108.36	-	-	98.78	34.5	8.06	32.98	195	198	A	V
		5400.72	53.75	-20.25	74	44.06	34.44	8.48	33.23	195	198	P	V
	5360.4	45.65	-8.35	54	36	34.46	8.38	33.19	195	198	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 0	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		8288	47.42	-26.58	74	53.84	37.31	9.19	52.92	-	-	P	H
		10360	54.35	-13.95	68.3	57.08	39.72	10.73	53.18	-	-	P	H
		15540	50.41	-23.59	74	50.34	41.74	12.72	54.39	-	-	P	H
		8288	49.9	-24.1	74	56.32	37.31	9.19	52.92	-	-	P	V
		10360	56.67	-11.63	68.3	59.4	39.72	10.73	53.18	-	-	P	V
		15540	50.02	-23.98	74	49.95	41.74	12.72	54.39	-	-	P	V
802.11a CH 44 5220MHz		8353.5	48.75	-25.25	74	54.88	37.49	9.12	52.74	-	-	P	H
		10440	54.02	-14.28	68.3	56.74	39.76	10.79	53.27	-	-	P	H
		15660	50.03	-23.97	74	50	41.86	12.72	54.55	-	-	P	H
		8353.5	50.32	-23.68	74	56.45	37.49	9.12	52.74	-	-	P	V
		10440	54.92	-13.38	68.3	57.64	39.76	10.79	53.27	-	-	P	V
		15660	50.99	-23.01	74	50.96	41.86	12.72	54.55	-	-	P	V
802.11a CH 48 5240MHz		8326	49.76	-24.24	74	56.02	37.41	9.16	52.83	-	-	P	H
		10480	55.43	-12.87	68.3	58.16	39.79	10.82	53.34	-	-	P	H
		15720	49.85	-24.15	74	49.85	41.92	12.72	54.64	-	-	P	H
		8384	51.76	-22.24	74	57.75	37.58	9.12	52.69	290	337	P	V
		8384	47.23	-6.77	54	53.22	37.58	9.12	52.69	290	337	A	V
		10480	57.52	-10.78	68.3	60.25	39.79	10.82	53.34	-	-	P	V
		15720	47.78	-26.22	74	47.78	41.92	12.72	54.64	-	-	P	V

<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.
---------------	---



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5148.2	52.48	-21.52	74	42.88	34.54	7.91	32.85	100	142	P	H
		5149.24	44.6	-9.4	54	35	34.54	7.91	32.85	100	142	A	H
	*	5180	103.46	-	-	93.89	34.53	7.93	32.89	100	142	P	H
		5180	97.34	-	-	87.77	34.53	7.93	32.89	100	142	A	H
		5140.66	58.39	-15.61	74	48.75	34.54	7.91	32.81	226	186	P	V
		5150	50.78	-3.22	54	41.18	34.54	7.91	32.85	226	186	A	V
	*	5180	112.47	-	-	102.9	34.53	7.93	32.89	226	186	P	V
		5180	106.45	-	-	96.88	34.53	7.93	32.89	226	186	A	V
802.11n HT20 CH 48 5240MHz		5089.18	50.64	-23.36	74	40.97	34.56	7.88	32.77	123	138	P	H
		5149.5	42.03	-11.97	54	32.43	34.54	7.91	32.85	123	138	A	H
	*	5240	105.36	-	-	95.78	34.5	8.06	32.98	123	138	P	H
		5240	99.24	-	-	89.66	34.5	8.06	32.98	123	138	A	H
		5356.56	49.23	-24.77	74	39.58	34.46	8.38	33.19	123	138	P	H
		5364.96	40.54	-13.46	54	30.9	34.45	8.38	33.19	123	138	A	H
		5123.5	55.5	-18.5	74	45.85	34.55	7.91	32.81	244	187	P	V
		5132.08	45.83	-8.17	54	36.18	34.55	7.91	32.81	244	187	A	V
	*	5240	112.08	-	-	102.5	34.5	8.06	32.98	244	187	P	V
		5240	106.14	-	-	96.56	34.5	8.06	32.98	244	187	A	V
		5358.48	53.89	-20.11	74	44.24	34.46	8.38	33.19	244	187	P	V
	5353.68	44.66	-9.34	54	35.01	34.46	8.38	33.19	244	187	A	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 36 5180MHz		8288	45.31	-28.69	74	51.73	37.31	9.19	52.92	-	-	P	H
		10360	47.63	-20.67	68.3	50.36	39.72	10.73	53.18	-	-	P	H
		15540	49.69	-24.31	74	49.62	41.74	12.72	54.39	-	-	P	H
		8288	50.08	-23.92	74	56.5	37.31	9.19	52.92	291	345	P	V
		8288	44.08	-9.92	54	50.5	37.31	9.19	52.92	291	345	A	V
		10360	48.75	-19.55	68.3	51.48	39.72	10.73	53.18	-	-	P	V
		15540	48.87	-25.13	74	48.8	41.74	12.72	54.39	-	-	P	V
802.11n HT20 CH 44 5220MHz		8352	46.82	-27.18	74	52.99	37.49	9.12	52.78	100	285	P	H
		8352	43.82	-10.18	54	49.99	37.49	9.12	52.78	100	285	A	H
		10440	48.17	-20.13	68.3	50.89	39.76	10.79	53.27	-	-	P	H
		15660	49.08	-24.92	74	49.05	41.86	12.72	54.55	-	-	P	H
		8352	48.02	-25.98	74	54.19	37.49	9.12	52.78	215	326	P	V
		8352	45.02	-8.98	54	51.19	37.49	9.12	52.78	215	326	A	V
		10440	50.19	-18.11	68.3	52.91	39.76	10.79	53.27	-	-	P	V
802.11n HT20 CH 48 5240MHz		15660	49.49	-24.51	74	49.46	41.86	12.72	54.55	-	-	P	V
		8384	49.8	-24.2	74	55.79	37.58	9.12	52.69	100	315	P	H
		8384	43.56	-10.44	54	49.55	37.58	9.12	52.69	100	315	A	H
		10480	48.4	-19.9	68.3	51.13	39.79	10.82	53.34	-	-	P	H
		15720	48.37	-25.63	74	48.37	41.92	12.72	54.64	-	-	P	H
		8384	51.4	-22.6	74	57.39	37.58	9.12	52.69	286	342	P	V
		8384	46.4	-7.6	54	52.39	37.58	9.12	52.69	286	342	A	V
Remark		10480	51.87	-16.43	68.3	54.6	39.79	10.82	53.34	-	-	P	V
		15720	49.57	-24.43	74	49.57	41.92	12.72	54.64	-	-	P	V

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 38 5190MHz		5142.22	52.21	-21.79	74	42.61	34.54	7.91	32.85	100	143	P	H
		5149.76	44.8	-9.2	54	35.2	34.54	7.91	32.85	100	143	A	H
	*	5190	100.8	-	-	91.24	34.52	7.93	32.89	100	143	P	H
		5190	94.67	-	-	85.11	34.52	7.93	32.89	100	143	A	H
		5391.68	48.33	-25.67	74	38.64	34.44	8.48	33.23	100	143	P	H
		5387.76	39.73	-14.27	54	30.04	34.44	8.48	33.23	100	143	A	H
		5146.12	56.65	-17.35	74	47.05	34.54	7.91	32.85	200	179	P	V
		5148.46	50.43	-3.57	54	40.83	34.54	7.91	32.85	200	179	A	V
	*	5190	108.19	-	-	98.63	34.52	7.93	32.89	200	179	P	V
		5190	102.11	-	-	92.55	34.52	7.93	32.89	200	179	A	V
		5369.84	49.75	-24.25	74	40.11	34.45	8.38	33.19	200	179	P	V
		5350.8	41.41	-12.59	54	31.76	34.46	8.38	33.19	200	179	A	V
802.11n HT40 CH 46 5230MHz		5107.64	51.96	-22.04	74	42.29	34.56	7.88	32.77	100	140	P	H
		5147.42	43.16	-10.84	54	33.56	34.54	7.91	32.85	100	140	A	H
	*	5230	101.97	-	-	92.48	34.51	7.96	32.98	100	140	P	H
		5230	95.82	-	-	86.33	34.51	7.96	32.98	100	140	A	H
		5383.92	49.72	-24.28	74	40.12	34.45	8.38	33.23	100	140	P	H
		5350.8	40.87	-13.13	54	31.22	34.46	8.38	33.19	100	140	A	H
		5132.6	55.02	-18.98	74	45.37	34.55	7.91	32.81	203	188	P	V
		5145.34	47.25	-6.75	54	37.65	34.54	7.91	32.85	203	188	A	V
	*	5230	108.95	-	-	99.46	34.51	7.96	32.98	203	188	P	V
		5230	102.82	-	-	93.33	34.51	7.96	32.98	203	188	A	V
	5352	54.14	-19.86	74	44.49	34.46	8.38	33.19	203	188	P	V	
	5365.44	45.91	-8.09	54	36.27	34.45	8.38	33.19	203	188	A	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		8304	47.37	-26.63	74	53.71	37.35	9.19	52.88	100	265	P	H
		8304	41.56	-12.44	54	47.9	37.35	9.19	52.88	100	265	A	H
		10380	48.19	-20.11	68.3	50.91	39.73	10.76	53.21	-	-	P	H
		15570	50.1	-23.9	74	50.05	41.77	12.72	54.44	-	-	P	H
		8304	50.54	-23.46	74	56.88	37.35	9.19	52.88	251	345	P	V
		8304	44.97	-9.03	54	51.31	37.35	9.19	52.88	251	345	A	V
		10380	48.88	-19.42	68.3	51.6	39.73	10.76	53.21	-	-	P	V
802.11n HT40 CH 46 5230MHz		15570	50.32	-23.68	74	50.27	41.77	12.72	54.44	-	-	P	V
		8368	48.91	-25.09	74	55	37.53	9.12	52.74	100	78	P	H
		8368	43.76	-10.24	54	49.85	37.53	9.12	52.74	100	78	A	H
		10460	48.04	-20.26	68.3	50.73	39.78	10.82	53.29	-	-	P	H
		15690	49.51	-24.49	74	49.5	41.89	12.72	54.6	-	-	P	H
		8368	50.91	-23.09	74	57	37.53	9.12	52.74	269	344	P	V
		8368	46.11	-7.89	54	52.2	37.53	9.12	52.74	269	344	A	V
Remark		10460	48.43	-19.87	68.3	51.12	39.78	10.82	53.29	-	-	P	V
		15690	49.41	-24.59	74	49.4	41.89	12.72	54.6	-	-	P	V
<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>													



Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 0+1, Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ac VHT80 CH 42 5210MHz and a Remark section.



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10420	49.12	-19.18	68.3	51.83	39.75	10.79	53.25	-	-	P	H
VHT80		15630	50.31	-23.69	74	50.29	41.83	12.72	54.53	-	-	P	H
CH 42		10420	48.32	-19.98	68.3	51.03	39.75	10.79	53.25	-	-	P	V
5210MHz		15630	49.53	-24.47	74	49.51	41.83	12.72	54.53	-	-	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 - 5150~5250MHz

Emission below 1GHz

WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0+1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11ax HE20 Full LF		45.52	21.52	-18.48	40	35.26	19.61	1.61	34.96	-	-	P	H
		142.52	28.5	-15	43.5	42.57	18.35	2.29	34.71	-	-	P	H
		196.84	28.36	-15.14	43.5	44.18	16.17	2.71	34.7	-	-	P	H
		379.2	22.11	-23.89	46	32.37	20.92	3.36	34.54	-	-	P	H
		573.2	25.95	-20.05	46	31.89	25.07	3.54	34.55	-	-	P	H
		709.97	28.85	-17.15	46	32.31	27.2	3.74	34.4	-	-	P	H
		45.52	30.76	-9.24	40	44.5	19.61	1.61	34.96	-	-	P	V
		123.12	35.7	-7.8	43.5	51.5	16.78	2.17	34.75	-	-	P	V
		178.41	30.16	-13.34	43.5	45.09	17.28	2.49	34.7	-	-	P	V
		313.24	21.1	-24.9	46	33.01	19.42	3.27	34.6	-	-	P	V
		499.48	25.52	-20.48	46	33.29	23.35	3.38	34.5	-	-	P	V
		729.37	29.3	-16.7	46	32.58	27.39	3.73	34.4	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Co-location

5GHz 5150~5250MHz

802.11ac80\_TX\_CH42&LTE B48 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0+1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11ac80 CH42 5210MHz & LTE Band48 Co-location		5143.78	62.24	-11.76	74	52.64	34.54	7.91	32.85	230	287	P	H
		5142.48	50.42	-3.58	54	40.82	34.54	7.91	32.85	230	287	P	H
	*	5210	96.32	-	-	86.78	34.52	7.96	32.94	230	287	A	H
	*	5210	90.23	-	-	80.69	34.52	7.96	32.94	230	287	P	H
		5400	48.54	-25.46	74	38.85	34.44	8.48	33.23	230	287	A	H
		5424	39.8	-14.2	54	30.16	34.43	8.48	33.27	230	287	P	H
		5052.26	60.15	-13.85	74	50.39	34.58	7.86	32.68	392	25	P	V
		5141.18	49.88	-4.12	54	40.28	34.54	7.91	32.85	392	25	P	V
	*	5210	90.21	-	-	80.67	34.52	7.96	32.94	392	25	A	V
	*	5210	84.09	-	-	74.55	34.52	7.96	32.94	392	25	P	V
	5424.24	48.57	-25.43	74	38.93	34.43	8.48	33.27	392	25	A	V	
	5362.08	39.54	-14.46	54	29.89	34.46	8.38	33.19	392	25	P	V	

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



5GHz 5150~5250MHz

802.11ac80\_TX\_CH42&LTE B48 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11ac80		10420	48.81	-19.49	68.3	51.52	39.75	10.79	53.25	-	-	P	H
CH42		15630	49.78	-24.22	74	49.76	41.83	12.72	54.53	-	-	A	H
5210MHz		10420	48.87	-19.43	68.3	51.58	39.75	10.79	53.25	-	-	P	V
& LTE		15630	50.31	-23.69	74	50.29	41.83	12.72	54.53	-	-	A	V
Band48													
Co-location													
Remark	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol>												





**Note symbol**

*	<b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is <b>Margin</b> line.
P/A	<b>Peak</b> or <b>Average</b>
H/V	<b>Horizontal</b> or <b>Vertical</b>



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
2412MHz													

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)  
= 55.45 (dBμV/m)
2. Margin (dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)  
= 43.54 (dBμV/m)
2. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)  
= 43.54(dBμV/m) – 54(dBμV/m)  
= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**



## Appendix D. Radiated Spurious Emission

### Note symbol

-L	Low channel location
-R	High channel location



**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0	Horizontal	Fundamental
<b>Peak</b>	<p>           Date: 1            Level (dBuV/m)            Date: 2022-10-21            Frequency (MHz)         </p> <p>           Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL            RBW: 1000.0000kHz VBW:3000.0000Hz            Project : 293023            Mode : Mode 1            MEI : 86403005663484            Plane : ANT 180 with Accessories                      : GM PowerSetting 24         </p>	<p>           Date: 3            Level (dBuV/m)            Date: 2022-10-21            Frequency (MHz)         </p> <p>           Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL            RBW: 1000.0000kHz VBW:3000.0000Hz            Project : 293023            Mode : Mode 1            MEI : 86403005663484            Plane : ANT 180 with Accessories                      : GM PowerSetting 24         </p>
<b>Avg.</b>	<p>           Date: 3            Level (dBuV/m)            Date: 2022-10-21            Frequency (MHz)         </p> <p>           Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL            RBW: 1000.0000kHz VBW:1.0000Hz            Project : 293023            Mode : Mode 1            MEI : 86403005663484            Plane : ANT 180 with Accessories                      : GM PowerSetting 24         </p>	<b>Left blank</b>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0	Vertical	Fundamental
Peak	<p>Date: 4 Date: 2022-10-21</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 1 MEI : 86463006663484 Plane : ANT 180 with Accessories GM PowerSetting 24</p>	<p>Date: 6 Date: 2022-10-21</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 1 MEI : 86463006663484 Plane : ANT 180 with Accessories GM PowerSetting 24</p>
Avg.	<p>Date: 5 Date: 2022-10-21</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 1.000kHz Project : 293023 Mode : Mode 1 MEI : 86463006663484 Plane : ANT 180 with Accessories GM PowerSetting 24</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0	Horizontal	Fundamental
Peak	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL            RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 3            MEI : 86463066663484            Plane : ANT 180 with Accessories            GM PowerSetting 24</p>	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL            RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 3            MEI : 86463066663484            Plane : ANT 180 with Accessories            GM PowerSetting 24</p>
Avg.	<p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL            RBW: 1000.000kHz VBW: 1.000kHz            Project : 293023            Mode : Mode 3            MEI : 86463066663484            Plane : ANT 180 with Accessories            GM PowerSetting 24</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL            : RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 3            MEI : 86453056663484            Plane : ANT 180 with Accessories            : GM PowerSetting 24</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL            : RBW: 1000.000kHz VBW: 1.000kHz            Project : 293023            Mode : Mode 3            MEI : 86453056663484            Plane : ANT 180 with Accessories            : GM PowerSetting 24</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0	Vertical	Fundamental
Peak	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 3            MEI : 86463066663484            Plane : ANT 180 with Accessories            GM PowerSetting 24</p>	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 3            MEI : 86463066663484            Plane : ANT 180 with Accessories            GM PowerSetting 24</p>
Avg.	<p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL            RBW: 1000.000kHz VBW: 1.000kHz            Project : 293023            Mode : Mode 3            MEI : 86463066663484            Plane : ANT 180 with Accessories            GM PowerSetting 24</p>	Left blank





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Date: 9 Date: 2022-10-21</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>140 122.5 105.0 87.5 70.0 52.5 35.0 17.5</p> <p>5220 5268 5316 5364 5412 5460</p> <p>15.407</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 3 MEI : 86453056663484 Plane : ANT 180 with Accessories GM PowerSetting 24</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Date: 10 Date: 2022-10-21</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>140 122.5 105.0 87.5 70.0 52.5 35.0 17.5</p> <p>5220 5268 5316 5364 5412 5460</p> <p>15.407 AVG</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 1.000kHz Project : 293023 Mode : Mode 3 MEI : 86453056663484 Plane : ANT 180 with Accessories GM PowerSetting 24</p>	<p>Left blank</p>



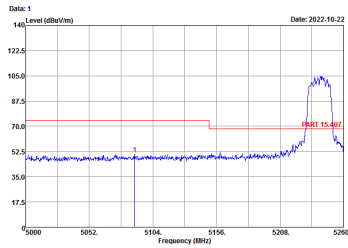
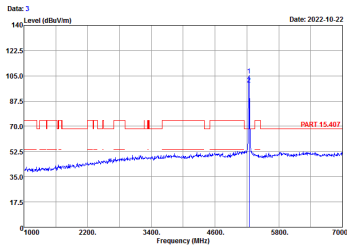
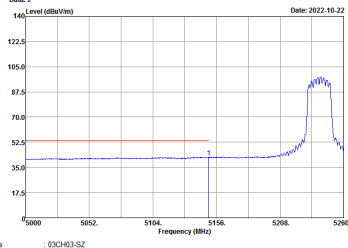
**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0+1	Horizontal	Fundamental
<b>Peak</b>	<p>Date: 10 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL Project : RBW 1000.000kHz VBW 3000.000kHz Mode : 293023 MEI : 86463006663484 Plane : ANT 150 with Accessories MCS0 PowerSetting 1F</p>	<p>Date: 12 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL Project : RBW 1000.000kHz VBW 3000.000kHz Mode : 293023 MEI : 86463006663484 Plane : ANT 150 with Accessories MCS0 PowerSetting 1F</p>
<b>Avg.</b>	<p>Date: 11 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL Project : RBW 1000.000kHz VBW 1.000kHz Mode : 293023 MEI : 86463006663484 Plane : ANT 150 with Accessories MCS0 PowerSetting 1F</p>	<b>Left blank</b>

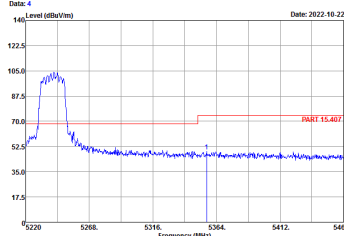
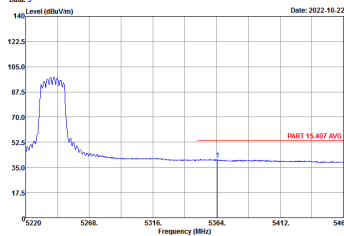


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0+1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Date: 13 Date: 2022-10-22</p> <p>Site Condition : 03CH03-SZ : PART 15.407 3m ANT3117_0057 VERTICAL : RBW: 1000.000kHz VBW: 3000.000kHz</p> <p>Project : 293023 Mode : Mode 4 IMEI : 86463066663484 Plane : ANT 180 with Accessories : MCS9 PowerSetting 1F</p>	<p>Date: 15 Date: 2022-10-22</p> <p>Site Condition : 03CH03-SZ : PART 15.407 3m ANT3117_0057 VERTICAL : RBW: 1000.000kHz VBW: 3000.000kHz</p> <p>Project : 293023 Mode : Mode 4 IMEI : 86463066663484 Plane : ANT 180 with Accessories : MCS9 PowerSetting 1F</p>
<p><b>Avg.</b></p>	<p>Date: 14 Date: 2022-10-22</p> <p>Site Condition : 03CH03-SZ : PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW: 1000.000kHz VBW: 1.000kHz</p> <p>Project : 293023 Mode : Mode 4 IMEI : 86463066663484 Plane : ANT 180 with Accessories : MCS9 PowerSetting 1F</p>	<p><b>Left blank</b></p>

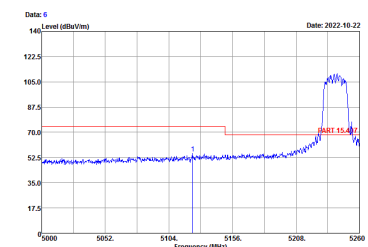
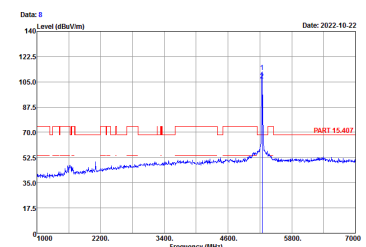
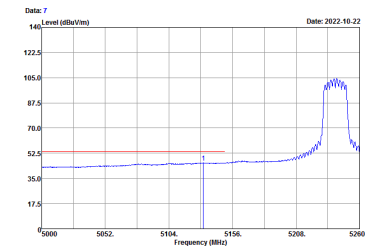


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
0+1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 1 Level (dBuV/m) Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 22</p>	 <p>Date: 3 Level (dBuV/m) Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 22</p>
<p><b>Avg.</b></p>	 <p>Date: 2 Level (dBuV/m) Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 1.000kHz Project : 293023 Mode : Mode 6 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 22</p>	<p><b>Left blank</b></p>

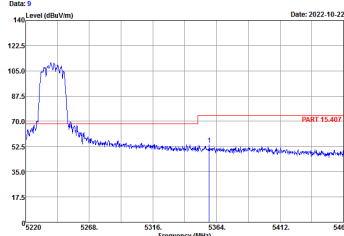
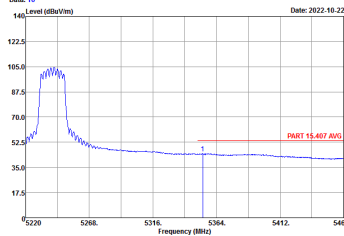


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
0+1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 4 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 6 MEI : 86453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 22</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Date: 5 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 1.000kHz Project : 293023 Mode : Mode 6 MEI : 86453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 22</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
0+1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0067 VERTICAL            RSW: 1000.000KHz VBW: 3000.000KHz            Project : 293023            Mode : Mode 6            MEI : 86463066663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 22</p>	 <p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0067 VERTICAL            RSW: 1000.000KHz VBW: 3000.000KHz            Project : 293023            Mode : Mode 6            MEI : 86463066663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 22</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0067 VERTICAL            RSW: 1000.000KHz VBW: 1.000KHz            Project : 293023            Mode : Mode 6            MEI : 86463066663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 22</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
0+1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            : RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 6            MEI : 86453056663484            Plane : ANT 180 with Accessories            : MCS9 PowerSetting 22</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL            : RBW: 1000.000kHz VBW: 1.000kHz            Project : 293023            Mode : Mode 6            MEI : 86453056663484            Plane : ANT 180 with Accessories            : MCS9 PowerSetting 22</p>	<p>Left blank</p>



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

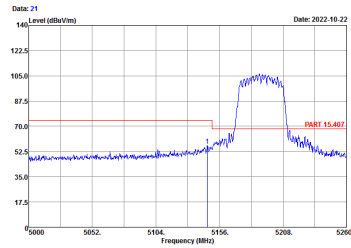
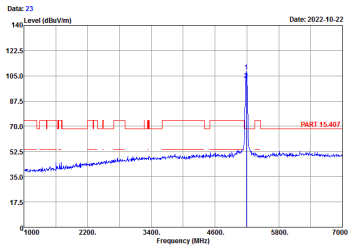
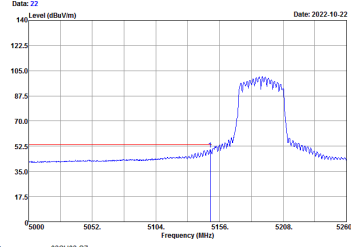
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
0+1	Horizontal	Fundamental
<b>Peak</b>	<p>Date: 16 Level (dBuV/m) Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PARRT 15.407 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 7 MEI : 86463006663484 Plane : ANT 190 with Accessories MCS0 PowerSetting ID</p>	<p>Date: 16 Level (dBuV/m) Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PARRT 15.407 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 7 MEI : 86463006663484 Plane : ANT 190 with Accessories MCS0 PowerSetting ID</p>
<b>Avg.</b>	<p>Date: 17 Level (dBuV/m) Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PARRT 15.407 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 7 MEI : 86463006663484 Plane : ANT 190 with Accessories MCS0 PowerSetting ID</p>	<b>Left blank</b>





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
0+1	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Date: 19 Date: 2022-10-22</p> <p>Site : 03CH03-SZ          Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL          : RBW: 1000.000kHz VBW: 3000.000kHz          Project : 293023          Mode : Mode 7          MEI : 86453056663484          Plane : ANT 180 with Accessories          : MCS9 PowerSetting 1D</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Date: 20 Date: 2022-10-22</p> <p>Site : 03CH03-SZ          Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL          : RBW: 1000.000kHz VBW: 3.000kHz          Project : 293023          Mode : Mode 7          MEI : 86453056663484          Plane : ANT 180 with Accessories          : MCS9 PowerSetting 1D</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0067 VERTICAL            RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 7            MEI : 86463006663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 10</p>	 <p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0067 VERTICAL            RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 7            MEI : 86463006663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 10</p>
Avg.	 <p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0067 VERTICAL            RBW: 1000.000kHz VBW: 3.000kHz            Project : 293023            Mode : Mode 7            MEI : 86463006663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 10</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
0+1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Date: 24 Date: 2022-10-22</p> <p>Level (dBm)</p> <p>Frequency (MHz)</p> <p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            : RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 7            MEI : 96453056663484            Plane : ANT 180 with Accessories            : MCS9 PowerSetting 1D</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Date: 25 Date: 2022-10-22</p> <p>Level (dBm)</p> <p>Frequency (MHz)</p> <p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL            : RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 7            MEI : 96453056663484            Plane : ANT 180 with Accessories            : MCS9 PowerSetting 1D</p>	<p>Left blank</p>

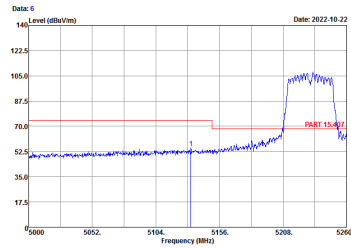
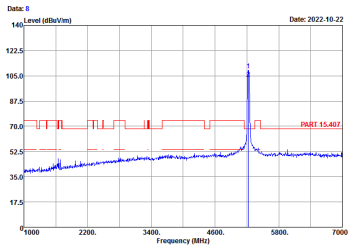
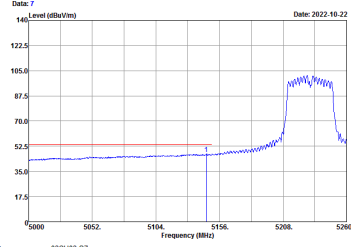


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
0+1	Horizontal	Fundamental
Peak	<p>Date: 1 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 20</p>	<p>Date: 3 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 20</p>
Avg.	<p>Date: 2 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3.000kHz Project : 293023 Mode : Mode 9 MEI : 86463066663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 20</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0+1	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Date: 4 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 96453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 20</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Date: 5 Date: 2022-10-22</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 96453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 20</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0067 VERTICAL            RSBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 9            MEI : 86463066663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 20</p>	 <p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0067 VERTICAL            RSBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 9            MEI : 86463066663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 20</p>
Avg.	 <p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0067 VERTICAL            RSBW: 1000.000kHz VBW: 3.000kHz            Project : 293023            Mode : Mode 9            MEI : 86463066663484            Plane : ANT 180 with Accessories            MCS9 PowerSetting 20</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0+1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Date: 9 Date: 2022-10-22</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 96453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 20</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Date: 10 Date: 2022-10-22</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 3.000kHz Project : 293023 Mode : Mode 9 MEI : 96453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 20</p>	<p>Left blank</p>

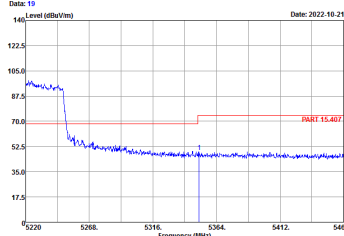
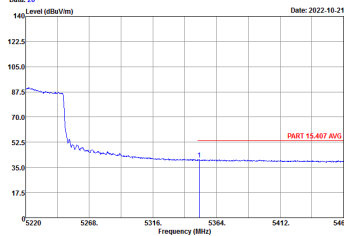


**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
0+1	Horizontal	Fundamental
<b>Peak</b>	<p>Date: 16 Level (dBuV/m) Date: 2022-10-21</p> <p>Site : 03CH03-SZ Condition : PA#T 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 86463095663484 Plane : ANT 150 with Accessories MCS0 PowerSetting 1A</p>	<p>Date: 18 Level (dBuV/m) Date: 2022-10-21</p> <p>Site : 03CH03-SZ Condition : PA#T 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 86463095663484 Plane : ANT 150 with Accessories MCS0 PowerSetting 1A</p>
<b>Avg.</b>	<p>Date: 17 Level (dBuV/m) Date: 2022-10-21</p> <p>Site : 03CH03-SZ Condition : PA#T 15.407 AVG 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3.000kHz Project : 293023 Mode : Mode 9 MEI : 86463095663484 Plane : ANT 150 with Accessories MCS0 PowerSetting 1A</p>	<b>Left blank</b>





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
0+1	Horizontal	Fundamental
Peak	 <p>Date: 19 Date: 2022-10-21</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 86453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 1A</p>	Left blank
Avg.	 <p>Date: 20 Date: 2022-10-21</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL RBW: 1000.000kHz VBW: 3.000kHz Project : 293023 Mode : Mode 9 MEI : 86453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 1A</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
0+1	Vertical	Fundamental
Peak	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            : RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 9            MEI : 86463066663484            Plane : ANT 180 with Accessories            : MCS9 PowerSetting 1A</p>	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            : RBW: 1000.000kHz VBW: 3000.000kHz            Project : 293023            Mode : Mode 9            MEI : 86463066663484            Plane : ANT 180 with Accessories            : MCS9 PowerSetting 1A</p>
Avg.	<p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL            : RBW: 1000.000kHz VBW: 3.000kHz            Project : 293023            Mode : Mode 9            MEI : 86463066663484            Plane : ANT 180 with Accessories            : MCS9 PowerSetting 1A</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
0+1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Date: 24 Date: 2022-10-21</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>140 122.5 105.0 87.5 70.0 52.5 35.0 17.5</p> <p>5220 5268 5316 5364 5412 5460</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz Project : 293023 Mode : Mode 9 MEI : 96453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 1A</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	<p>Date: 25 Date: 2022-10-21</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>140 122.5 105.0 87.5 70.0 52.5 35.0 17.5</p> <p>5220 5268 5316 5364 5412 5460</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL RBW: 1000.000kHz VBW: 3.000kHz Project : 293023 Mode : Mode 9 MEI : 96453056663484 Plane : ANT 180 with Accessories MCS9 PowerSetting 1A</p>	<p>Left blank</p>



Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Rows include WIFI, ANT, 0, and Peak Avg. Each cell contains a spectral plot and test parameters.



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
0	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 2 IMEI : 86463009863484 Plane : ANT 150 with Accessories GM PowerSetting 24</p>	<p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 2 IMEI : 86463009863484 Plane : ANT 150 with Accessories GM PowerSetting 24</p>



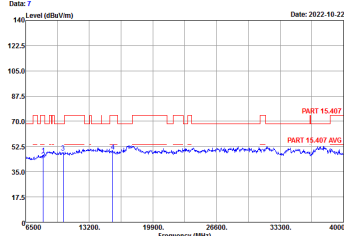
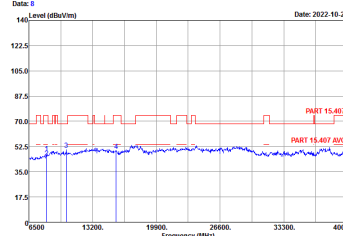
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
0	Horizontal	Vertical
Peak Avg.	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> </div> <div style="width: 45%;"> </div> </div>	



**Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 1 5150~5250MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH36 5180MHz</b>	
<b>0+1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>		



<b>WIFI</b>	<b>Band 1 5150~5250MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH44 5220MHz</b>	
<b>0+1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">  <p style="font-size: small;">Date: 7 Date: 2022-10-22</p> <p style="font-size: x-small;">Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 5 MCI : 86463000983484 Plane : ANT 150 with Accessories MCS0 PowerSetting 22</p> </div> <div style="width: 45%;">  <p style="font-size: small;">Date: 8 Date: 2022-10-22</p> <p style="font-size: x-small;">Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 5 MCI : 86463000983484 Plane : ANT 150 with Accessories MCS0 PowerSetting 22</p> </div> </div>	





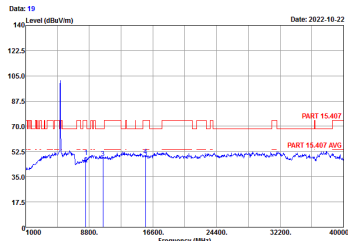
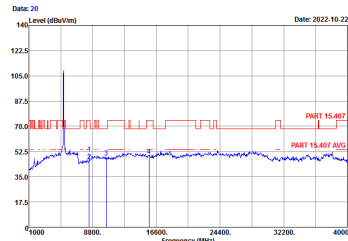
<b>WIFI</b>	<b>Band 1 5150~5250MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH48 5240MHz</b>	
<b>0+1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>           Date: 19            Date: 2022-10-22            Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL            Project : 293023            Mode : Mode 6            MCEI : 86463000983484            Plane : ANT 150 with Accessories                      : MCS0 PowerSetting 22         </p>	<p>           Date: 20            Date: 2022-10-22            Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            Project : 293023            Mode : Mode 6            MCEI : 86463000983484            Plane : ANT 150 with Accessories                      : MCS0 PowerSetting 22         </p>



Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 2 columns: WIFI (Band 1 5150~5250MHz Harmonic @ 3m), ANT (802.11n HT40 CH38 5190MHz). Row 0+1 contains two graphs: Horizontal and Vertical. Each graph shows Level (dBuV/m) vs Frequency (MHz) with Peak and Avg. data series. Includes metadata like Date, Site, Condition, Project, Mode, IMEI, Plane.



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
0+1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 9 MCI : 86463009803484 Plane : ANT 150 with Accessories MCSO PowerSetting 20</p>	 <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 9 MCI : 86463009803484 Plane : ANT 150 with Accessories MCSO PowerSetting 20</p>



Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 2 columns: WIFI (Band 1 5150~5250MHz Harmonic @ 3m), ANT (802.11ac VHT80 CH42 5210MHz). Rows include 0+1 and Peak Avg. with sub-plots for Horizontal and Vertical orientations.



Band 1 - 5150~5250MHz

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
0+1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH05-SZ Condition : FCC CLASS-B 3m VULB9168-01003 HORIZONTAL Project : 293023 Mode : Mode 20 MEI : 86463096663484 Plane : ANT 150 with Accessories MCS9 PowerSetting 1A</p>	<p>Site : 03CH05-SZ Condition : FCC CLASS-B 3m VULB9168-01003 VERTICAL Project : 293023 Mode : Mode 20 MEI : 86463096663484 Plane : ANT 150 with Accessories MCS9 PowerSetting 1A</p>



Co-location

5GHz 5150~5250MHz

802.11ac80\_TX\_CH42&LTE B48 (Band Edge @ 3m)

WIFI	5GHz 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac80_TX_CH42&LTE B48	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL            RBW: 1000.0000kHz VBW: 3000.0000Hz            Project : 293023            Mode : Mode 19            MEI : 86403096663476            Plane : ANT 180 with Accessories            : MCS0 PowerSetting 1A</p>	<p>Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL            RBW: 1000.0000kHz VBW: 3000.0000Hz            Project : 293023            Mode : Mode 19            MEI : 86403096663476            Plane : ANT 180 with Accessories            : MCS0 PowerSetting 1A</p>
Avg.	<p>Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL            RBW: 1000.0000kHz VBW: 3.0000kHz            Project : 293023            Mode : Mode 19            MEI : 86403096663476            Plane : ANT 180 with Accessories            : MCS0 PowerSetting 1A</p>	



WIFI	5GHz 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac80_TX_CH42& LTE B48	
0+1	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Date: 4 Date: 2022-11-11</p> <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0957 HORIZONTAL Project : 293023 Mode : Mode 19 MEI : 86403066663476 Plane : ANT 180 with Accessories : MCS9 PowerSetting 1A</p>	<p>Left Blank</p>
<p><b>Avg.</b></p>	<p>Date: 5 Date: 2022-11-11</p> <p>Site : 03CH03-SZ Condition : PART 15.407 AVG 3m ANT3117_0957 HORIZONTAL Project : 293023 Mode : Mode 19 MEI : 86403066663476 Plane : ANT 180 with Accessories : MCS9 PowerSetting 1A</p>	<p>Left Blank</p>



WIFI	5GHz 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac80_TX_CH42& LTE B48	
0+1	Vertical	Fundamental
Peak	<p>           Date: 6            Level (dBuV/m)            Date: 2022-11-11            Frequency (MHz)            Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            Project : NSW-1000.000kHz VBW 3000.000kHz            Mode : 293023            MEI : 86463066663476            Plane : ANT 180 with Accessories            MCS9 PowerSetting 1A         </p>	<p>           Date: 8            Level (dBuV/m)            Date: 2022-11-11            Frequency (MHz)            Site : 03CH03-SZ            Condition : PART 15.407 3m ANT3117_0057 VERTICAL            Project : NSW-1000.000kHz VBW 3000.000kHz            Mode : 293023            MEI : 86463066663476            Plane : ANT 180 with Accessories            MCS9 PowerSetting 1A         </p>
Avg.	<p>           Date: 7            Level (dBuV/m)            Date: 2022-11-11            Frequency (MHz)            Site : 03CH03-SZ            Condition : PART 15.407 AVG 3m ANT3117_0057 VERTICAL            Project : NSW-1000.000kHz VBW 3.000kHz            Mode : 293023            MEI : 86463066663476            Plane : ANT 180 with Accessories            MCS9 PowerSetting 1A         </p>	



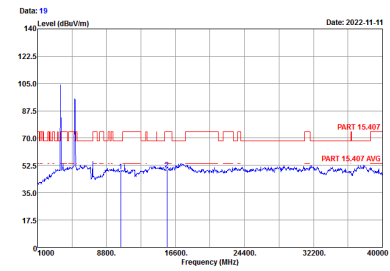
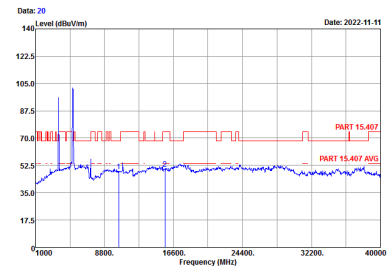


WIFI	5GHz 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac80_TX_CH42& LTE B48	
0+1	Vertical	Fundamental
<p><b>Peak</b></p>		<p>Left blank</p>
<p><b>Avg.</b></p>		<p>Left blank</p>



5GHz 5150~5250MHz

802.11ac80\_TX\_CH42& LTE B48 (Harmonic @ 3m)

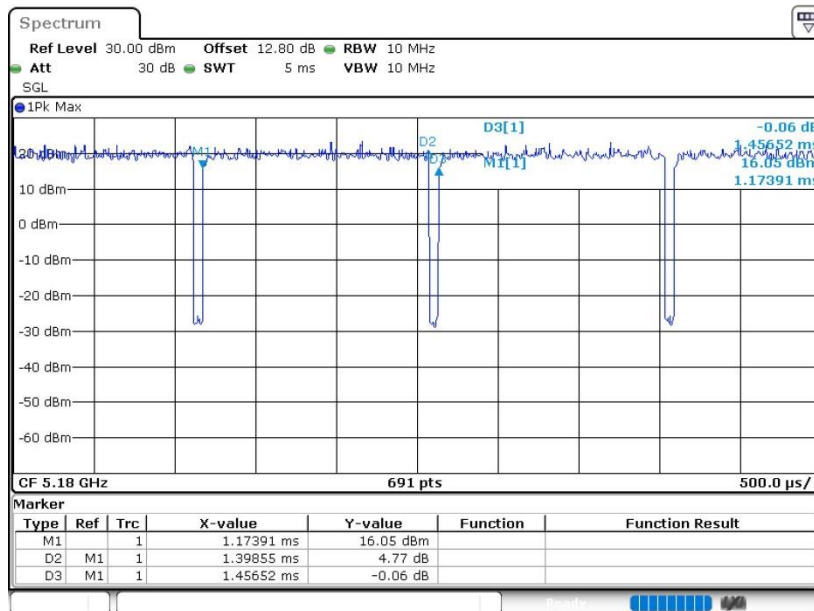
WIFI	5GHz 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac80_TX_CH106& LTE B48 Co-location	
0+1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL Project : 293023 Mode : Mode 15 IMEI : 864E30066663476 Plane : ANT 100 with Accessories MCS0 PowerSetting 1A</p>	 <p>Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL Project : 293023 Mode : Mode 15 IMEI : 864E30066663476 Plane : ANT 100 with Accessories MCS0 PowerSetting 1A</p>



## Appendix E. Duty Cycle Plots

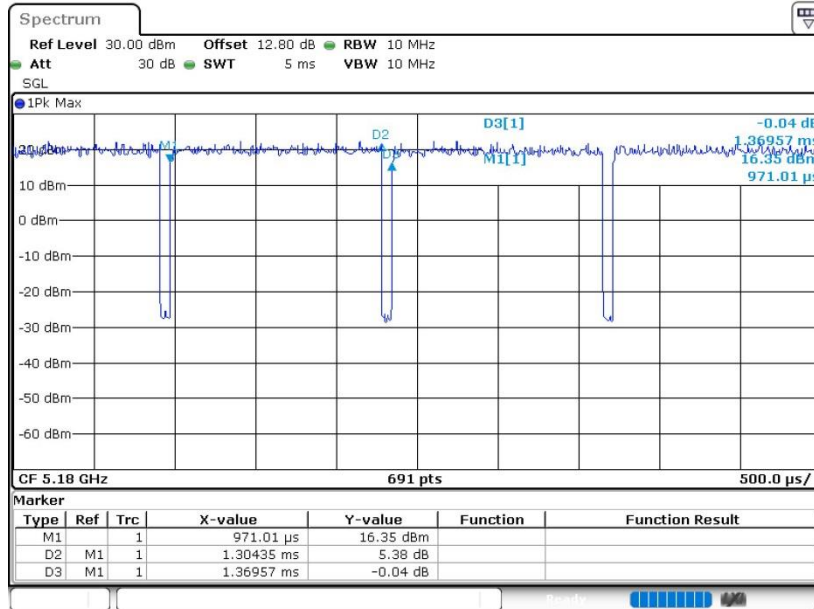
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
0	802.11a	96.02	1.399	0.715	1KHz
0+1	802.11n HT20	95.24	1.304	0.767	1KHz
0+1	802.11n HT40	90.80	0.643	1.554	3KHz
0+1	802.11ac VHT80	89.85	0.558	1.792	3KHz

### 802.11a

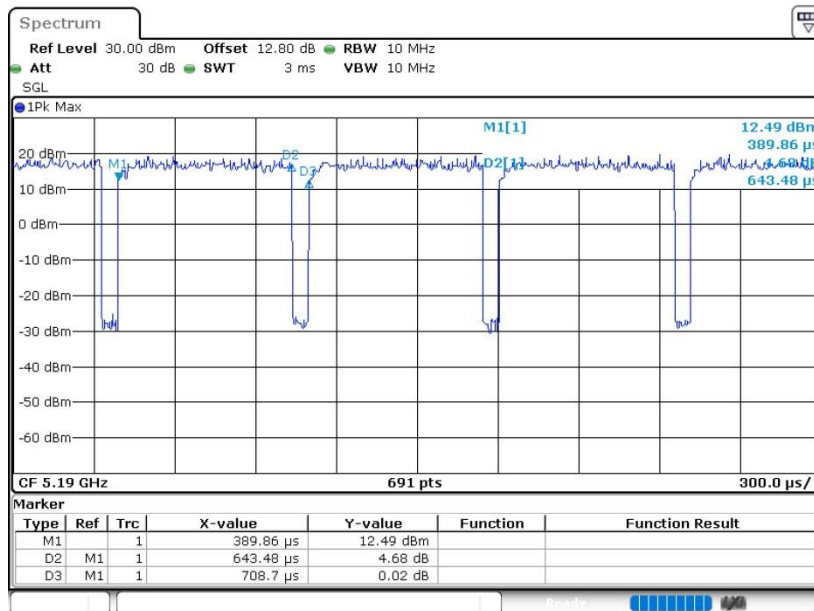




802.11n HT20



802.11n HT40





802.11ac VHT80

