



# FCC RF Test Report

**APPLICANT** : Lenovo(Shanghai) Electronics Technology Co., Ltd.  
**EQUIPMENT** : Portable Tablet Computer  
**BRAND NAME** : Lenovo  
**MODEL NAME** : Lenovo YT-K606F  
**FCC ID** : O57YTK606F  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Jan. 14, 2021 and testing was completed on Mar. 01, 2021. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager



**Sporton International (Kunshan) Inc.**

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



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 9.39 dB at 5987.600 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.91 dB at 0.570 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/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

Lenovo(Shanghai) Electronics Technology Co., Ltd.  
Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

## 1.2 Manufacturer

Lenovo PC HK Limited  
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, P.R.China

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo YT-K606F
FCC ID	O57YTK606F
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE
HW Version	Lenovo YT-K606F
SW Version	YT-K606F_RF01_210125
EUT Stage	Identical Prototype

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are four types of EUT, the product equality declaration exhibit submitted. According to the difference, we choose the sample 2 to full test.



### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification										
<b>Tx/Rx Channel Frequency Range</b>	5745 MHz ~ 5825 MHz									
<b>Maximum Output Power</b>	<p>&lt;MIMO Ant.1+2&gt;            &lt;5745 MHz ~ 5825 MHz&gt;            802.11a : 20.40 dBm / 0.1096 W            802.11n HT20 : 20.77 dBm / 0.1194 W            802.11n HT40 : 16.93 dBm / 0.0493 W            802.11ac VHT20 : 20.58 dBm / 0.1143 W            802.11ac VHT40 : 16.87 dBm / 0.0486 W            802.11ac VHT80 : 15.70 dBm / 0.0372 W            802.11ax HE20 : 19.72 dBm / 0.0938 W            802.11ax HE40 : 17.31 dBm / 0.0538 W            802.11ax HE80 : 15.73 dBm / 0.0374 W</p>									
<b>99% Occupied Bandwidth</b>	<p>&lt;MIMO Ant.1+2&gt;            802.11a : 16.93 MHz            802.11n HT20 : 17.98 MHz            802.11n HT40 : 36.06 MHz            802.11ac VHT80 : 75.40 MHz            802.11ax HE20 : 19.43 MHz            802.11ax HE40 : 37.86 MHz            802.11ax HE80 : 77.20 MHz</p>									
<b>Type of Modulation</b>	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac/ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)									
<b>Antenna Type / Gain</b>	<Ant. 1> : LDS Antenna with gain -3.30 dBi <Ant. 2> : LDS Antenna with gain -1.00 dBi									
<b>Antenna Function Description</b>	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 a/n/ac/ax SISO</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 n/ac/ax MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 a/n/ac/ax SISO	V	V	802.11 n/ac/ax MIMO	V	V
	Ant. 1	Ant. 2								
802.11 a/n/ac/ax SISO	V	V								
802.11 n/ac/ax MIMO	V	V								

**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 SISO & MIMO mode, the whole testing has assessed MIMO mode by referring to their higher conducted power.

### 1.5 Modification of EUT

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



### 1.6 Testing Location

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

<b>Test Firm</b>	Sporton International (Kunshan) Inc.		
<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 03CH05-KS TH01-KS	CN1257	314309

### 1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	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 (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

**Note:**

1. The above Frequency and Channel in "\*" were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel in "#n" were 802.11ac VHT80 and 802.11ax HE80.



## 2.2 Test Mode

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

### MIMO Mode

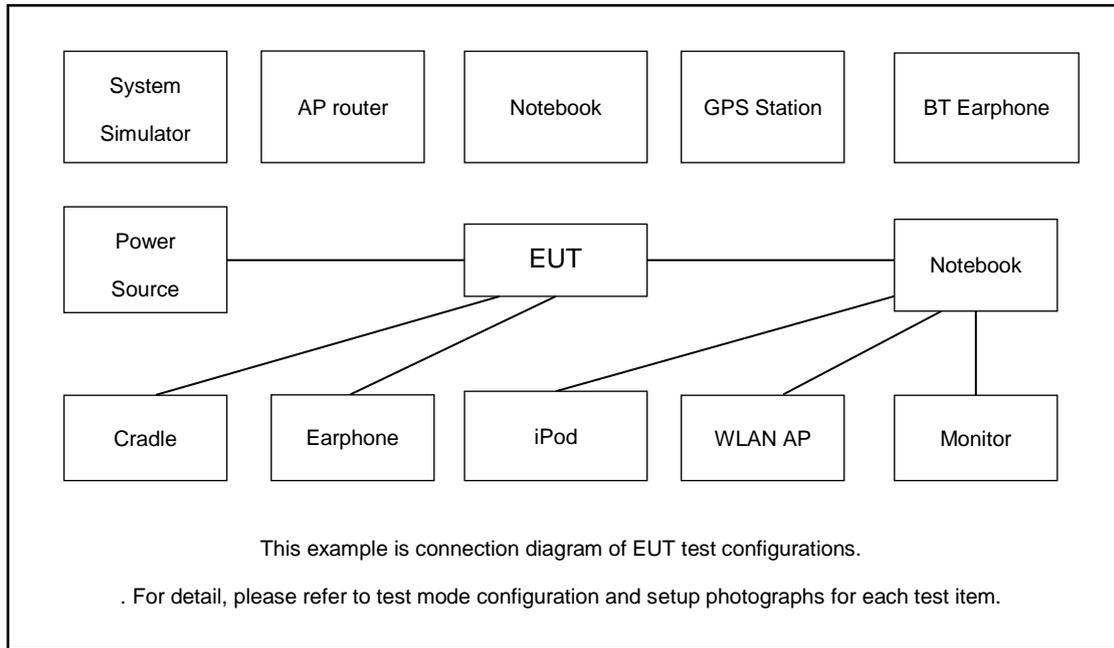
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

<b>AC Conducted Emission</b>	Mode 1 : Bluetooth Link + WLAN Link(5G) + USB Cable(Charging from Adapter 2) + HDMI Load With Notebook for Sample 2
<b>Remark:</b> For Radiated Test Cases, The tests were performance with Adapter and Sample 2	

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

Ch. #		Band IV : 5725-5850 MHz		
		802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

### 2.3 Connection Diagram of Test System



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

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
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.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
5.	HDMI Cable	N/A	N/A	N/A	Shielded, 1.0m	N/A
6.	SD Card	Kingston	8GB	N/A	N/A	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/receive.

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

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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

*Offset = RF cable loss*

Following shows an offset computation example with cable loss 7.3 dB.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 7.3 \text{ (dB)} \end{aligned}$$

### 3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

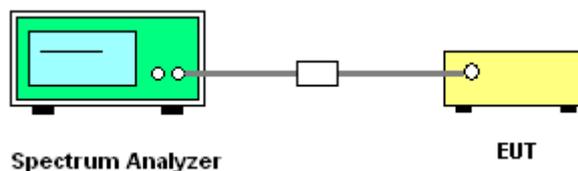
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

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

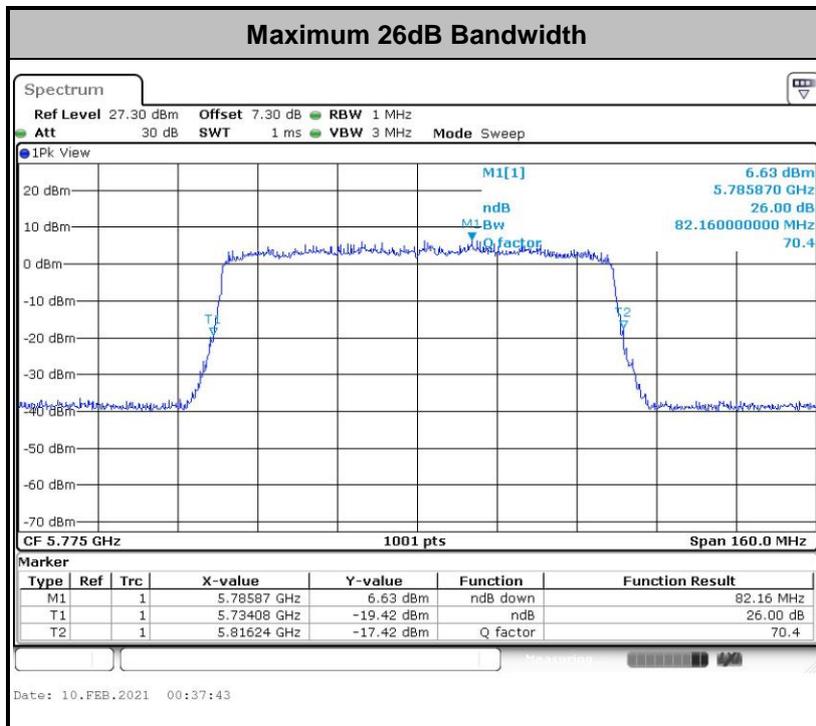
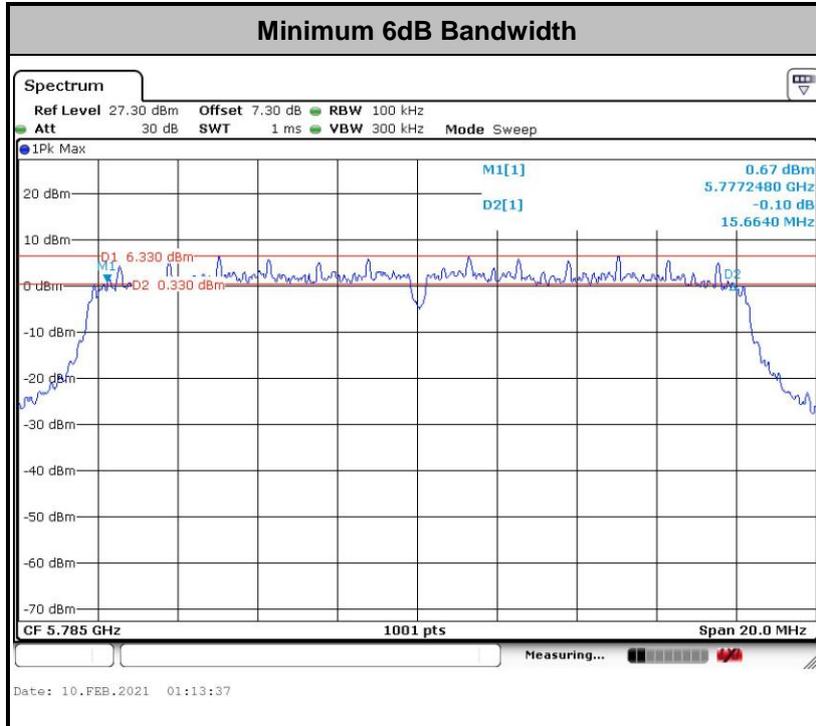
##### 3.1.4 Test Setup

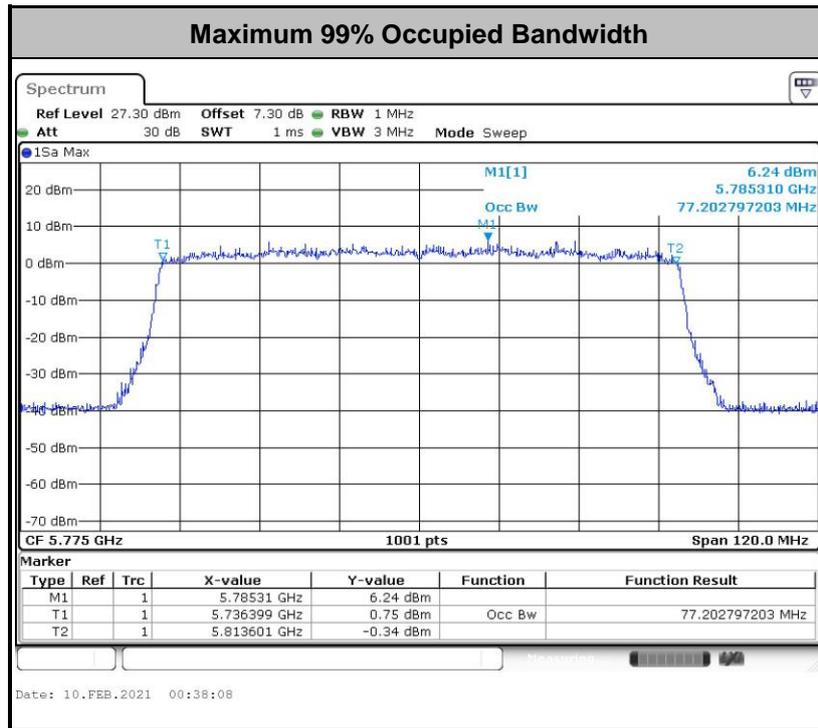




### 3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.





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

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

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

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

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

### 3.2.2 Measuring Instruments

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

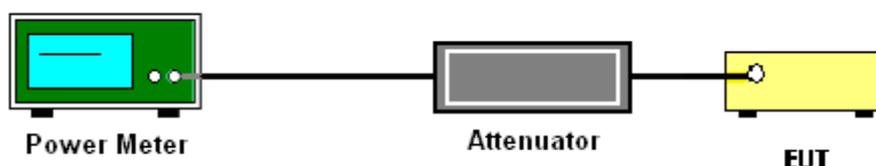
### 3.2.3 Test Procedures

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

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

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

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

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

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

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

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

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

##### # Method SA-2 #

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

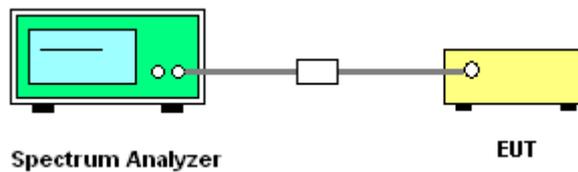
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW  $\geq$  1 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add  $10 \log(500\text{kHz}/\text{RBW})$  to the test result.
- Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add  $10 \log(N_{\text{ANT}})$  dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity  $10 \log(N_{\text{ANT}})$  dB is added to each spectrum value before comparing to the emission limit. The addition of  $10 \log(N_{\text{ANT}})$  dB serves to apportion the emission limit among the  $N_{\text{ANT}}$  outputs so that each output is permitted to contribute no more than  $1/N_{\text{ANT}}^{\text{th}}$  of the PSD limit.

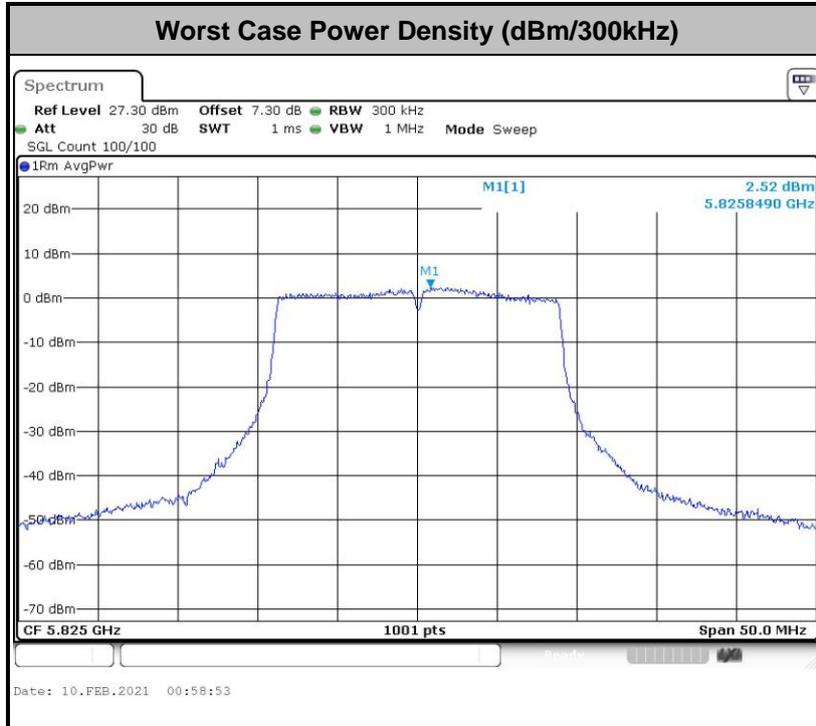
### 3.3.4 Test Setup





### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





### 3.4 Unwanted Emissions Measurement

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

#### 3.4.1 Limit of Unwanted Emissions

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

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

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

**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.

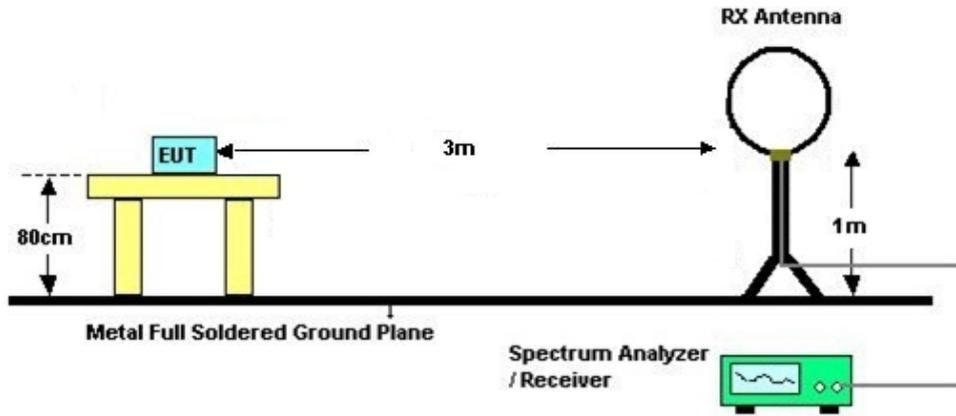


### 3.4.3 Test Procedures

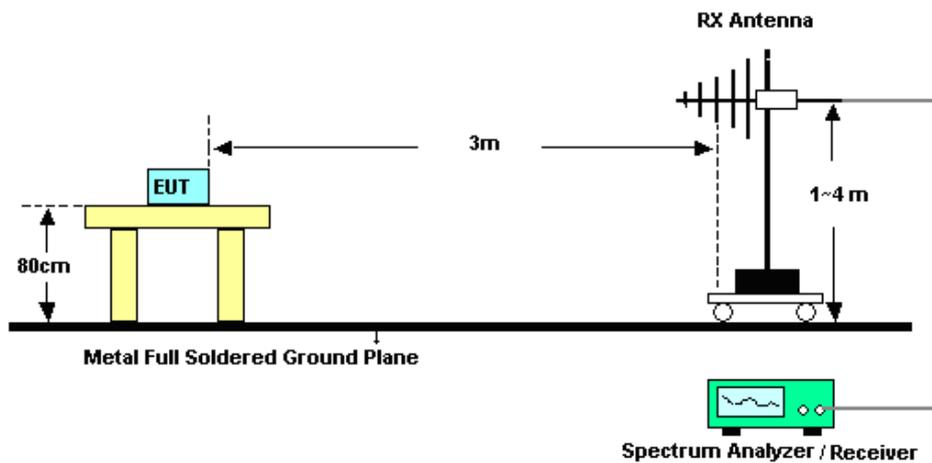
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure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

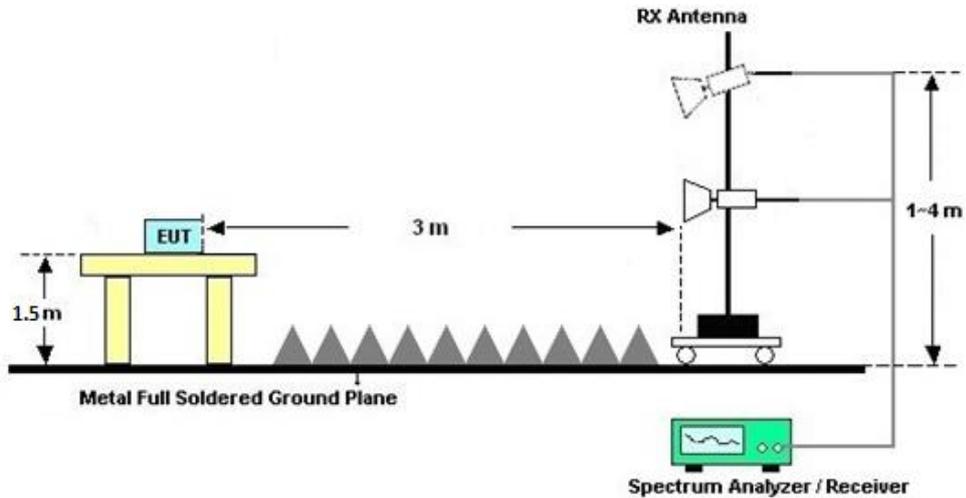
#### For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

### 3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C.

### 3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.



### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

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

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

\*Decreases with the logarithm of the frequency.

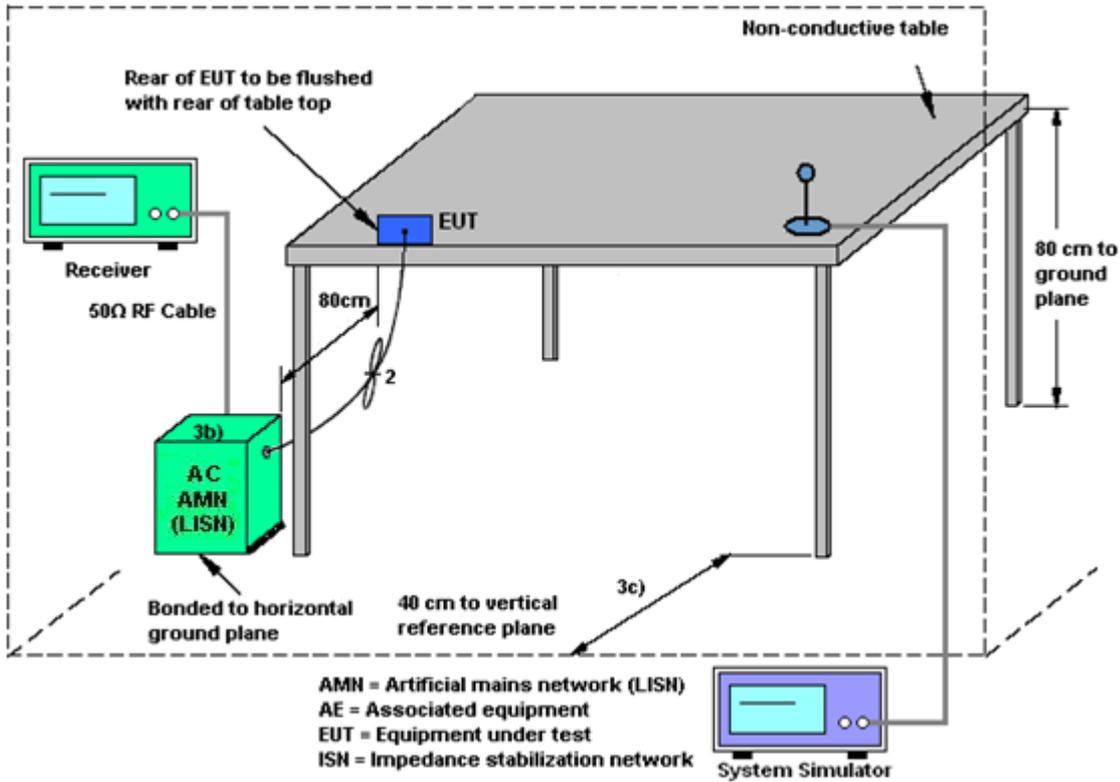
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.6 Automatically Discontinue Transmission**

### **3.6.1 Limit of Automatically Discontinue Transmission**

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

### **3.6.2 Measuring Instruments**

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

### **3.6.3 Test Result of Automatically Discontinue Transmission**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



### 3.7 Antenna Requirements

#### 3.7.1 Standard Applicable

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

#### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.7.3 Antenna Gain

<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. 1</b>	<b>Ant. 2</b>	<b>DG for Power</b>	<b>DG for PSD</b>	<b>Power Limit Reduction</b>	<b>PSD Limit Reduction</b>
	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dB)</b>	<b>(dB)</b>
<b>Band IV</b>	-3.30	-1.00	-1.00	0.94	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, ( min = 0 )

PSD Limit Reduction = DG(PSD) – 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	101040	10Hz~40GHz	Nov. 01, 2020	Feb. 10, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	Feb. 10, 2021	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	Feb. 10, 2021	Jan. 06, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 17, 2020	Feb. 15, 2021	Oct. 16, 2021	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44G,MAX 30dB	Apr. 15, 2020	Feb. 15, 2021	Apr. 14, 2021	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 01, 2020	Feb. 15, 2021	Oct. 31, 2021	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	May 30, 2020	Feb. 15, 2021	May 29, 2021	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 26, 2020	Feb. 15, 2021	Apr. 25, 2021	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2020	Feb. 15, 2021	Nov. 09, 2021	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Apr. 14, 2020	Feb. 15, 2021	Apr. 13, 2021	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 07, 2021	Feb. 15, 2021	Jan. 06, 2022	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2012228	1Ghz-18Ghz	Oct. 17, 2020	Feb. 15, 2021	Oct. 16, 2021	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5GHz	Oct. 17, 2020	Feb. 15, 2021	Oct. 16, 2021	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 15, 2021	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 15, 2021	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 15, 2021	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 14, 2020	Mar. 01, 2021	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Mar. 01, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Oct. 17, 2020	Mar. 01, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Mar. 01, 2021	Oct. 16, 2021	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 Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.9dB
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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))	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))	5.0dB
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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))	5.0dB
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## **Appendix A. Conducted Test Results**

**A1. Conducted Test Results**

Test Engineer:	Smile Wang	Temperature:	21~25	°C
Test Date:	2021/2/10	Relative Humidity:	51~54	%
Tool & Version		Test Site	TH01-KS	
Test Site Locatic				

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

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	16.73	16.93	20.23	19.88	15.78	16.28	0.5	Pass
11a	6Mbps	2	157	5785	16.78	16.93	20.33	19.93	15.66	16.28	0.5	Pass
11a	6Mbps	2	165	5825	16.78	16.93	20.18	20.13	15.76	16.28	0.5	Pass
HT20	MCS0	2	149	5745	17.98	17.93	21.33	21.13	16.90	16.76	0.5	Pass
HT20	MCS0	2	157	5785	17.98	17.98	21.33	21.18	17.28	16.90	0.5	Pass
HT20	MCS0	2	165	5825	17.98	17.98	21.33	21.13	17.16	16.80	0.5	Pass
HT40	MCS0	2	151	5755	36.06	35.96	40.37	40.28	35.05	35.09	0.5	Pass
HT40	MCS0	2	159	5795	36.06	36.06	40.64	40.37	35.09	35.09	0.5	Pass
VHT80	MCS0	2	155	5775	75.28	75.40	81.68	81.52	75.13	75.05	0.5	Pass

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	19.43	19.28	22.08	22.03	18.80	18.50	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.33	19.28	22.03	21.98	18.68	18.62	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.33	19.23	21.98	21.78	18.78	18.52	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.86	37.76	41.09	41.18	37.16	36.36	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.86	37.86	41.09	41.18	37.36	37.28	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.20	77.20	82.16	82.16	77.60	77.60	0.5	Pass

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

Band IV MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	0.05	0.03	16.87	16.69	19.79	30.00		-1.00	Pass	
11a	6Mbps	2	157	5785	0.05	0.03	17.56	16.98	20.29	30.00		-1.00	Pass	
11a	6Mbps	2	165	5825	0.05	0.03	17.91	16.81	20.40	30.00		-1.00	Pass	
HT20	MCS0	2	149	5745	0.00	0.00	17.11	17.13	20.13	30.00		-1.00	Pass	
HT20	MCS0	2	157	5785	0.00	0.00	17.88	17.40	20.66	30.00		-1.00	Pass	
HT20	MCS0	2	165	5825	0.00	0.00	18.20	17.26	20.77	30.00		-1.00	Pass	
HT40	MCS0	2	151	5755	0.00	0.00	13.59	13.15	16.39	30.00		-1.00	Pass	
HT40	MCS0	2	159	5795	0.00	0.00	14.35	13.44	16.93	30.00		-1.00	Pass	
VHT20	MCS0	2	149	5745	0.00	0.00	16.88	16.85	19.88	30.00		-1.00	Pass	
VHT20	MCS0	2	157	5785	0.00	0.00	17.66	17.22	20.46	30.00		-1.00	Pass	
VHT20	MCS0	2	165	5825	0.00	0.00	18.06	17.01	20.58	30.00		-1.00	Pass	
VHT40	MCS0	2	151	5755	0.00	0.00	13.42	13.15	16.30	30.00		-1.00	Pass	
VHT40	MCS0	2	159	5795	0.00	0.00	14.17	13.52	16.87	30.00		-1.00	Pass	
VHT80	MCS0	2	155	5775	0.00	0.00	12.81	12.56	15.70	30.00		-1.00	Pass	

Band IV MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	0.00	0.00	16.27	16.06	19.18	30.00		-1.00	Pass	
HE20	MCS0	2	149	5745	26/0	0.00	0.00	7.55	6.97	10.28	30.00		-1.00	Pass	
HE20	MCS0	2	149	5745	52/37	0.00	0.00	10.20	9.56	12.90	30.00		-1.00	Pass	
HE20	MCS0	2	149	5745	106/53	0.00	0.00	14.24	12.65	16.53	30.00		-1.00	Pass	
HE20	MCS0	2	157	5785	Full	0.00	0.00	16.72	16.35	19.55	30.00		-1.00	Pass	
HE20	MCS0	2	157	5785	26/4	0.00	0.00	8.14	7.35	10.77	30.00		-1.00	Pass	
HE20	MCS0	2	157	5785	52/38	0.00	0.00	10.75	9.81	13.32	30.00		-1.00	Pass	
HE20	MCS0	2	157	5785	106/53	0.00	0.00	13.38	12.60	16.02	30.00		-1.00	Pass	
HE20	MCS0	2	165	5825	Full	0.00	0.00	17.19	16.16	19.72	30.00		-1.00	Pass	
HE20	MCS0	2	165	5825	26/8	0.00	0.00	8.51	7.20	10.91	30.00		-1.00	Pass	
HE20	MCS0	2	165	5825	52/40	0.00	0.00	11.16	9.80	13.54	30.00		-1.00	Pass	
HE20	MCS0	2	165	5825	106/54	0.00	0.00	13.75	12.35	16.12	30.00		-1.00	Pass	
HE40	MCS0	2	151	5755	Full	0.00	0.00	13.91	13.62	16.78	30.00		-1.00	Pass	
HE40	MCS0	2	151	5755	242/61	0.00	0.00	11.18	10.75	13.98	30.00		-1.00	Pass	
HE40	MCS0	2	159	5795	Full	0.00	0.00	14.62	13.95	17.31	30.00		-1.00	Pass	
HE40	MCS0	2	159	5795	242/62	0.00	0.00	11.91	10.70	14.36	30.00		-1.00	Pass	
HE80	MCS0	2	155	5775	Full	0.00	0.00	12.83	12.61	15.73	30.00		-1.00	Pass	
HE80	MCS0	2	155	5775	484/65	0.00	0.00	9.77	9.30	12.55	30.00		-1.00	Pass	
HE80	MCS0	2	155	5775	484/66	0.00	0.00	9.59	9.22	12.42	30.00		-1.00	Pass	

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

Band IV MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	0.05	0.03	2.22		3.49	3.10	6.50	30.00		0.94	Pass	
11a	6Mbps	2	157	5785	0.05	0.03	2.22		3.85	3.16	6.86	30.00		0.94	Pass	
11a	6Mbps	2	165	5825	0.05	0.03	2.22		4.42	2.91	7.43	30.00		0.94	Pass	
HT20	MCS0	2	149	5745	0.00	0.00	2.22		3.50	3.36	6.51	30.00		0.94	Pass	
HT20	MCS0	2	157	5785	0.00	0.00	2.22		4.07	3.18	7.08	30.00		0.94	Pass	
HT20	MCS0	2	165	5825	0.00	0.00	2.22		4.74	3.33	7.75	30.00		0.94	Pass	
HT40	MCS0	2	151	5755	0.00	0.00	2.22		-2.83	-3.49	0.18	30.00		0.94	Pass	
HT40	MCS0	2	159	5795	0.00	0.00	2.22		-2.39	-3.60	0.62	30.00		0.94	Pass	
VHT80	MCS0	2	155	5775	0.00	0.00	2.22		-7.05	-7.75	-4.04	30.00		0.94	Pass	

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

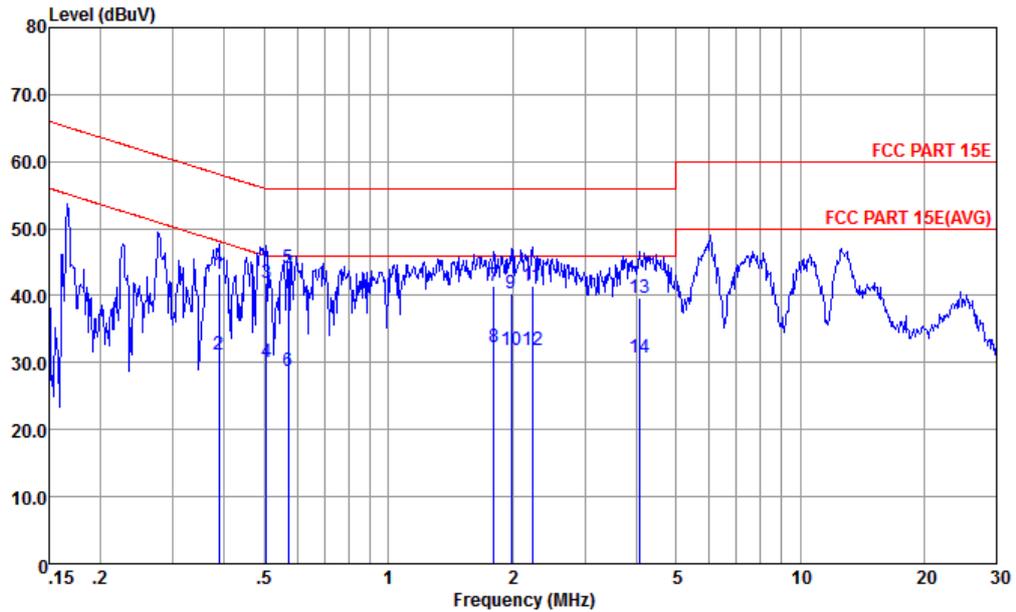
Band IV MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	0.00	0.00	2.22		2.69	2.05	5.70	30.00		0.94	Pass	
HE20	MCS0	2	149	5745	26/0	0.00	0.00	2.22		2.50	1.92	5.51	30.00		0.94	Pass	
HE20	MCS0	2	149	5745	52/37	0.00	0.00	2.22		2.17	1.66	5.18	30.00		0.94	Pass	
HE20	MCS0	2	149	5745	106/53	0.00	0.00	2.22		2.21	1.60	5.22	30.00		0.94	Pass	
HE20	MCS0	2	157	5785	Full	0.00	0.00	2.22		3.13	1.91	6.14	30.00		0.94	Pass	
HE20	MCS0	2	157	5785	26/4	0.00	0.00	2.22		2.74	2.10	5.75	30.00		0.94	Pass	
HE20	MCS0	2	157	5785	52/38	0.00	0.00	2.22		2.72	1.77	5.73	30.00		0.94	Pass	
HE20	MCS0	2	157	5785	106/53	0.00	0.00	2.22		2.46	1.63	5.47	30.00		0.94	Pass	
HE20	MCS0	2	165	5825	Full	0.00	0.00	2.22		3.58	2.01	6.59	30.00		0.94	Pass	
HE20	MCS0	2	165	5825	26/8	0.00	0.00	2.22		3.24	1.83	6.25	30.00		0.94	Pass	
HE20	MCS0	2	165	5825	52/40	0.00	0.00	2.22		3.32	1.60	6.33	30.00		0.94	Pass	
HE20	MCS0	2	165	5825	106/54	0.00	0.00	2.22		3.00	1.49	6.01	30.00		0.94	Pass	
HE40	MCS0	2	151	5755	Full	0.00	0.00	2.22		-2.84	-3.04	0.17	30.00		0.94	Pass	
HE40	MCS0	2	151	5755	242/61	0.00	0.00	2.22		-3.20	-3.51	-0.19	30.00		0.94	Pass	
HE40	MCS0	2	159	5795	Full	0.00	0.00	2.22		-2.06	-3.08	0.95	30.00		0.94	Pass	
HE40	MCS0	2	159	5795	242/62	0.00	0.00	2.22		-2.67	-3.83	0.34	30.00		0.94	Pass	
HE80	MCS0	2	155	5775	Full	0.00	0.00	2.22		-7.32	-7.65	-4.31	30.00		0.94	Pass	
HE80	MCS0	2	155	5775	484/65	0.00	0.00	2.22		-7.72	-8.26	-4.71	30.00		0.94	Pass	
HE80	MCS0	2	155	5775	484/66	0.00	0.00	2.22		-7.92	-8.41	-4.91	30.00		0.94	Pass	

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)



## Appendix B. AC Conducted Emission Test Results

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

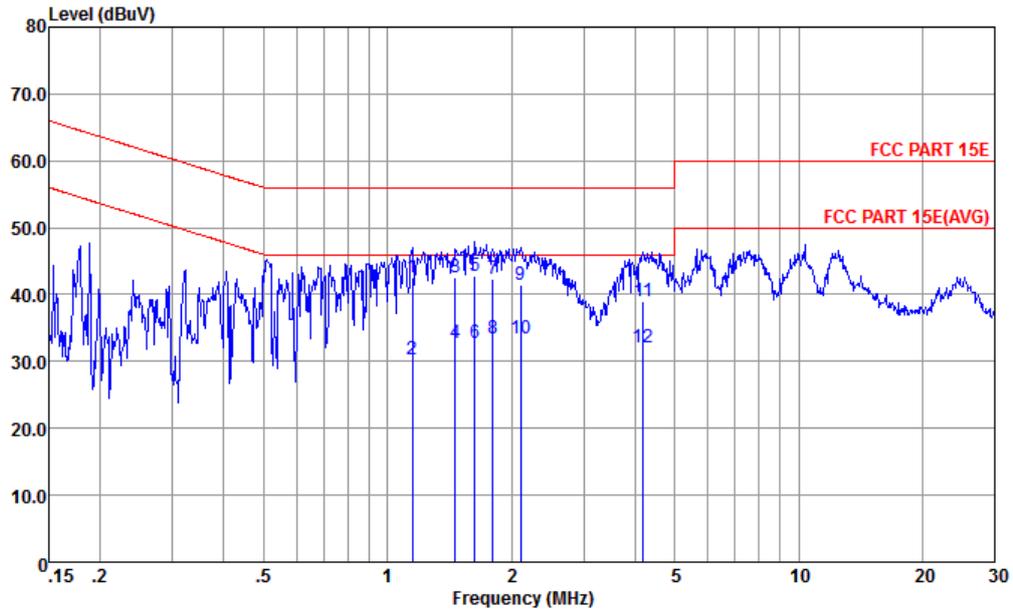


Site : CO01-KS  
 Condition : FCC PART 15E TWO-LISN-CN02-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.387	43.22	-14.90	58.12	23.30	9.65	10.27	QP
2	0.387	31.22	-16.90	48.12	11.30	9.65	10.27	Average
3	0.505	41.79	-14.21	56.00	21.90	9.65	10.24	QP
4	0.505	30.09	-15.91	46.00	10.20	9.65	10.24	Average
5 *	0.570	44.09	-11.91	56.00	24.20	9.65	10.24	QP
6	0.570	28.79	-17.21	46.00	8.90	9.65	10.24	Average
7	1.800	41.43	-14.57	56.00	21.30	9.90	10.23	QP
8	1.800	32.33	-13.67	46.00	12.20	9.90	10.23	Average
9	1.991	40.36	-15.64	56.00	20.19	9.94	10.23	QP
10	1.991	31.76	-14.24	46.00	11.59	9.94	10.23	Average
11	2.237	41.50	-14.50	56.00	21.30	9.97	10.23	QP
12	2.237	31.80	-14.20	46.00	11.60	9.97	10.23	Average
13	4.070	39.62	-16.38	56.00	19.20	10.17	10.25	QP
14	4.070	30.72	-15.28	46.00	10.30	10.17	10.25	Average



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



Site : CO01-KS  
 Condition : FCC PART 15E TWO-LISN-CN02-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	1.147	42.59	-13.41	56.00	22.61	9.75	10.23	QP
2	1.147	30.29	-15.71	46.00	10.31	9.75	10.23	Average
3	1.464	42.66	-13.34	56.00	22.60	9.83	10.23	QP
4	1.464	32.66	-13.34	46.00	12.60	9.83	10.23	Average
5	1.628	42.69	-13.31	56.00	22.60	9.86	10.23	QP
6	1.628	32.69	-13.31	46.00	12.60	9.86	10.23	Average
7	1.800	42.42	-13.58	56.00	22.30	9.89	10.23	QP
8	1.800	33.42	-12.58	46.00	13.30	9.89	10.23	Average
9	2.110	41.38	-14.62	56.00	21.20	9.95	10.23	QP
10 *	2.110	33.48	-12.52	46.00	13.30	9.95	10.23	Average
11	4.180	39.04	-16.96	56.00	18.59	10.19	10.26	QP
12	4.180	32.04	-13.96	46.00	11.59	10.19	10.26	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

Test Engineer :	Yoke Si	Temperature :	27~30°C
		Relative Humidity :	41~45%

#### Band 4 - 5725~5850MHz

#### WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 149 5745MHz		5645.2	56.47	-11.83	68.3	40.71	34.81	11.72	30.77	100	98	P	H
		5654.4	56.42	-15.15	71.57	40.6	34.86	11.74	30.78	100	98	P	H
		5719.8	58.15	-52.69	110.84	42.04	35.08	11.84	30.81	100	98	P	H
		5724.4	64.19	-56.74	120.93	48.09	35.08	11.84	30.82	100	98	P	H
		5740	113.31	-	-	97.12	35.14	11.87	30.82	100	98	P	H
		5740	106.52	-	-	90.33	35.14	11.87	30.82	100	98	A	H
		5648.8	55.94	-12.36	68.3	40.19	34.81	11.72	30.78	103	83	P	V
		5697.6	56.39	-47.14	103.53	40.43	34.97	11.79	30.8	103	83	P	V
		5710.8	55.84	-52.49	108.33	39.8	35.03	11.82	30.81	103	83	P	V
		5724.8	58.67	-63.17	121.84	42.57	35.08	11.84	30.82	103	83	P	V
		5746	109.17	-	-	92.99	35.14	11.87	30.83	103	83	P	V
		5746	103.26	-	-	87.08	35.14	11.87	30.83	103	83	A	V



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 165 5825MHz		5854.4	60.81	-51.46	112.27	44.33	35.37	11.98	30.87	108	102	P	H
		5855.8	56.82	-53.86	110.68	40.35	35.37	11.98	30.88	108	102	P	H
		5920	57.8	-14.19	71.99	41.27	35.42	12.01	30.9	108	102	P	H
		5958.4	56.89	-11.41	68.3	40.29	35.47	12.04	30.91	108	102	P	H
		5818	112.67	-	-	96.26	35.32	11.95	30.86	108	102	P	H
		5818	106.79	-	-	90.38	35.32	11.95	30.86	108	102	A	H
		5852.8	60.06	-55.86	115.92	43.61	35.35	11.97	30.87	100	281	P	V
		5855.8	56.48	-54.2	110.68	40.01	35.37	11.98	30.88	100	281	P	V
		5891.2	57.07	-36.21	93.28	40.56	35.4	12	30.89	100	281	P	V
		5937.2	57.26	-11.04	68.3	40.72	35.43	12.02	30.91	100	281	P	V
		5824	111.12	-	-	94.69	35.33	11.96	30.86	100	281	P	V
		5824	103.51	-	-	87.08	35.33	11.96	30.86	100	281	A	V
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>												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 149 5745MHz		11490	44.93	-29.07	74	50.1	38.19	17.07	60.43	300	0	P	H
		11490	43.46	-30.54	74	48.63	38.19	17.07	60.43	300	0	P	V
802.11a CH 157 5785MHz		11570	43.19	-30.81	74	48.14	38.3	17.13	60.38	100	360	P	H
		11570	43.85	-30.15	74	48.8	38.3	17.13	60.38	100	360	P	V
802.11a CH 165 5825MHz		11650	43.31	-30.69	74	48.07	38.39	17.18	60.33	100	360	P	H
		11650	44.37	-29.63	74	49.13	38.39	17.18	60.33	100	360	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 149 5745MHz		5648.4	56.7	-11.6	68.3	40.95	34.81	11.72	30.78	101	100	P	H
		5654.4	57.59	-13.98	71.57	41.77	34.86	11.74	30.78	101	100	P	H
		5717.6	61.48	-48.75	110.23	45.37	35.08	11.84	30.81	101	100	P	H
		5724.8	67.9	-53.94	121.84	51.8	35.08	11.84	30.82	101	100	P	H
		5746	115.07	-	-	98.89	35.14	11.87	30.83	101	100	P	H
		5746	107.61	-	-	91.43	35.14	11.87	30.83	101	100	A	H
		5613.2	56	-12.3	68.3	40.4	34.7	11.67	30.77	100	78	P	V
		5679.6	56	-34.24	90.24	40.1	34.92	11.77	30.79	100	78	P	V
		5716.4	58.48	-51.41	109.89	42.44	35.03	11.82	30.81	100	78	P	V
		5724.8	63.28	-58.56	121.84	47.18	35.08	11.84	30.82	100	78	P	V
		5746	108.73	-	-	92.55	35.14	11.87	30.83	100	78	P	V
	5746	103.27	-	-	87.09	35.14	11.87	30.83	100	78	A	V	
802.11n HT20 CH 165 5825MHz		5851.6	59.77	-58.88	118.65	43.32	35.35	11.97	30.87	101	245	P	H
		5863.2	57.37	-51.23	108.6	40.9	35.37	11.98	30.88	101	245	P	H
		5900.4	56.8	-29.66	86.46	40.29	35.4	12	30.89	101	245	P	H
		5967.2	57.4	-10.9	68.3	40.8	35.47	12.04	30.91	101	245	P	H
		5824	112.25	-	-	95.82	35.33	11.96	30.86	101	245	P	H
		5824	104.74	-	-	88.31	35.33	11.96	30.86	101	245	A	H
		5850	58.28	-64.02	122.3	41.83	35.35	11.97	30.87	100	261	P	V
		5855.2	57.44	-53.4	110.84	40.97	35.37	11.98	30.88	100	261	P	V
		5904.8	57.07	-26.14	83.21	40.53	35.42	12.01	30.89	100	261	P	V
		5987.2	56.69	-11.61	68.3	40.08	35.48	12.05	30.92	100	261	P	V
		5824	108.33	-	-	91.9	35.33	11.96	30.86	100	261	P	V
	5824	102.3	-	-	85.87	35.33	11.96	30.86	100	261	A	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 149 5745MHz		11490	43.14	-30.86	74	48.31	38.19	17.07	60.43	100	360	P	H
		11490	44.39	-29.61	74	49.56	38.19	17.07	60.43	100	360	P	V
802.11n HT20 CH 157 5785MHz		11570	42.69	-31.31	74	47.64	38.3	17.13	60.38	100	360	P	H
		11570	43.2	-30.8	74	48.15	38.3	17.13	60.38	100	360	P	V
802.11n HT20 CH 165 5825MHz		11650	43.75	-30.25	74	48.51	38.39	17.18	60.33	100	360	P	H
		11650	43.37	-30.63	74	48.13	38.39	17.18	60.33	100	360	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 frequency measurements from 5639.6 to 5746 MHz.



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 159 5795MHz		5609.6	55.96	-12.34	68.3	40.36	34.7	11.67	30.77	104	102	P	H
		5699.2	55.67	-49.04	104.71	39.71	34.97	11.79	30.8	104	102	P	H
		5703.6	57.02	-49.29	106.31	40.98	35.03	11.82	30.81	104	102	P	H
		5724.8	54.66	-67.18	121.84	38.56	35.08	11.84	30.82	104	102	P	H
		5850.8	55.62	-64.86	120.48	39.17	35.35	11.97	30.87	104	102	P	H
		5860	55.94	-53.56	109.5	39.47	35.37	11.98	30.88	104	102	P	H
		5914	56.28	-20.13	76.41	39.75	35.42	12.01	30.9	104	102	P	H
		5942.8	57.05	-11.25	68.3	40.48	35.45	12.03	30.91	104	102	P	H
		5782	107.57	-	-	91.24	35.25	11.92	30.84	104	102	P	H
		5782	100.55	-	-	84.22	35.25	11.92	30.84	104	102	A	H
		5640	55.65	-12.65	68.3	39.89	34.81	11.72	30.77	100	80	P	V
		5694	56.32	-44.56	100.88	40.36	34.97	11.79	30.8	100	80	P	V
		5700.4	55.38	-50.03	105.41	39.42	34.97	11.79	30.8	100	80	P	V
		5722	54.62	-60.84	115.46	38.52	35.08	11.84	30.82	100	80	P	V
		5851.6	55.56	-63.09	118.65	39.11	35.35	11.97	30.87	100	80	P	V
		5856.4	58.59	-51.92	110.51	42.12	35.37	11.98	30.88	100	80	P	V
		5880	57.17	-44.42	101.59	40.69	35.38	11.99	30.89	100	80	P	V
		5958	57.47	-10.83	68.3	40.87	35.47	12.04	30.91	100	80	P	V
	5782	104.32	-	-	87.99	35.25	11.92	30.84	100	80	P	V	
	5782	97.63	-	-	81.3	35.25	11.92	30.84	100	80	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 802.11n HT40 CH 151 5755MHz and CH 159 5795MHz, plus a Remark section.



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 VHT80 CH 155 5775MHz		5649.6	56.03	-12.27	68.3	40.21	34.86	11.74	30.78	100	100	P	H
		5672	58.15	-26.47	84.62	42.25	34.92	11.77	30.79	100	100	P	H
		5718.8	57.66	-52.9	110.56	41.55	35.08	11.84	30.81	100	100	P	H
		5724.8	58.72	-63.12	121.84	42.62	35.08	11.84	30.82	100	100	P	H
		5851.2	56.14	-63.42	119.56	39.69	35.35	11.97	30.87	100	100	P	H
		5855.2	56.69	-54.15	110.84	40.22	35.37	11.98	30.88	100	100	P	H
		5916.8	57.66	-16.69	74.35	41.13	35.42	12.01	30.9	100	100	P	H
		5950	56.79	-11.51	68.3	40.22	35.45	12.03	30.91	100	100	P	H
		5758	104.09	-	-	87.84	35.19	11.89	30.83	100	100	P	H
		5758	97.01	-	-	80.76	35.19	11.89	30.83	100	100	A	H
		5631.2	56.07	-12.23	68.3	40.4	34.75	11.69	30.77	100	78	P	V
		5676	56.18	-31.4	87.58	40.28	34.92	11.77	30.79	100	78	P	V
		5718.4	56.62	-53.83	110.45	40.51	35.08	11.84	30.81	100	78	P	V
		5720.4	56.47	-55.34	111.81	40.36	35.08	11.84	30.81	100	78	P	V
		5852	55.43	-62.31	117.74	38.98	35.35	11.97	30.87	100	78	P	V
		5865.2	55.96	-52.08	108.04	39.49	35.37	11.98	30.88	100	78	P	V
		5916	56.67	-18.27	74.94	40.14	35.42	12.01	30.9	100	78	P	V
		5942	57.14	-11.16	68.3	40.57	35.45	12.03	30.91	100	78	P	V
	5788	100.6	-	-	84.2	35.3	11.94	30.84	100	78	P	V	
	5788	93.44	-	-	77.04	35.3	11.94	30.84	100	78	A	V	

**Remark**

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



Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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 802.11ac VHT80 and CH 155 5775MHz.

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



Band 4 5725~5850MHz

WIFI 802.11ax HE20\_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE20 Full CH 149 5745MHz		5644.8	56.33	-11.97	68.3	40.57	34.81	11.72	30.77	102	103	P	H
		5651.6	56.3	-13.19	69.49	40.48	34.86	11.74	30.78	102	103	P	H
		5717.2	58.86	-51.26	110.12	42.82	35.03	11.82	30.81	102	103	P	H
		5724.4	64.61	-56.32	120.93	48.51	35.08	11.84	30.82	102	103	P	H
		5752	112.55	-	-	96.3	35.19	11.89	30.83	102	103	P	H
		5752	106.02	-	-	89.77	35.19	11.89	30.83	102	103	A	H
		5613.6	57.12	-11.18	68.3	41.52	34.7	11.67	30.77	100	78	P	V
		5696.8	56.64	-46.3	102.94	40.68	34.97	11.79	30.8	100	78	P	V
		5701.2	56.51	-49.13	105.64	40.46	35.03	11.82	30.8	100	78	P	V
		5723.6	60.35	-58.76	119.11	44.25	35.08	11.84	30.82	100	78	P	V
		5746	110.09	-	-	93.91	35.14	11.87	30.83	100	78	P	V
	5746	102.15	-	-	85.97	35.14	11.87	30.83	100	78	A	V	
802.11ax HE20 Full CH 165 5825MHz		5850	58.53	-63.77	122.3	42.08	35.35	11.97	30.87	108	100	P	H
		5857.6	56.77	-53.4	110.17	40.3	35.37	11.98	30.88	108	100	P	H
		5919.6	56.92	-15.36	72.28	40.39	35.42	12.01	30.9	108	100	P	H
		5964.4	57.08	-11.22	68.3	40.48	35.47	12.04	30.91	108	100	P	H
		5824	114.31	-	-	97.88	35.33	11.96	30.86	108	100	P	H
		5824	105.98	-	-	89.55	35.33	11.96	30.86	108	100	A	H
		5854	59.34	-53.84	113.18	42.86	35.37	11.98	30.87	101	80	P	V
		5855.2	57.67	-53.17	110.84	41.2	35.37	11.98	30.88	101	80	P	V
		5887.2	57.2	-39.04	96.24	40.72	35.38	11.99	30.89	101	80	P	V
		5944.4	58	-10.3	68.3	41.43	35.45	12.03	30.91	101	80	P	V
		5824	111.26	-	-	94.83	35.33	11.96	30.86	101	80	P	V
	5824	102.49	-	-	86.06	35.33	11.96	30.86	101	80	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE20 Full		11490	43.27	-30.73	74	48.44	38.19	17.07	60.43	100	360	P	H
CH 149 5745MHz		11490	43.4	-30.6	74	48.57	38.19	17.07	60.43	100	360	P	V
802.11ax HE20 Full		11570	43.06	-30.94	74	48.01	38.3	17.13	60.38	100	360	P	H
CH 157 5785MHz		11570	42.8	-31.2	74	47.75	38.3	17.13	60.38	100	360	P	V
802.11ax HE20 Full		11650	42.63	-31.37	74	47.39	38.39	17.18	60.33	100	360	P	H
CH 165 5825MHz		11650	43.17	-30.83	74	47.93	38.39	17.18	60.33	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20\_Partial 26 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE20 Partial 26/0 CH 149 5745MHz		5610.8	55.76	-12.54	68.3	40.16	34.7	11.67	30.77	100	102	P	H
		5672.8	56.85	-28.36	85.21	40.95	34.92	11.77	30.79	100	102	P	H
		5703.6	55.84	-50.47	106.31	39.8	35.03	11.82	30.81	100	102	P	H
		5722	55.44	-60.02	115.46	39.34	35.08	11.84	30.82	100	102	P	H
		5734	112.47	-	-	96.37	35.08	11.84	30.82	100	102	P	H
		5734	105.59	-	-	89.49	35.08	11.84	30.82	100	102	A	H
		5616	56.86	-11.44	68.3	41.19	34.75	11.69	30.77	104	81	P	V
		5657.6	55.6	-18.35	73.95	39.78	34.86	11.74	30.78	104	81	P	V
		5703.6	55.42	-50.89	106.31	39.38	35.03	11.82	30.81	104	81	P	V
		5720.4	54.85	-56.96	111.81	38.74	35.08	11.84	30.81	104	81	P	V
		5734	107.92	-	-	91.82	35.08	11.84	30.82	104	81	P	V
		5734	101.34	-	-	85.24	35.08	11.84	30.82	104	81	A	V
802.11ax HE20 Partial 26/8 CH 165 5825MHz		5851.6	56.61	-62.04	118.65	40.16	35.35	11.97	30.87	100	103	P	H
		5872	56.09	-50.05	106.14	39.6	35.38	11.99	30.88	100	103	P	H
		5902.8	56.97	-27.72	84.69	40.46	35.4	12	30.89	100	103	P	H
		5930	57.33	-10.97	68.3	40.78	35.43	12.02	30.9	100	103	P	H
		5836	113.66	-	-	97.24	35.33	11.96	30.87	100	103	P	H
		5836	105.86	-	-	89.44	35.33	11.96	30.87	100	103	A	H
		5854.8	54.95	-56.41	111.36	38.48	35.37	11.98	30.88	100	79	P	V
		5857.2	55.83	-54.45	110.28	39.36	35.37	11.98	30.88	100	79	P	V
		5900	56.5	-30.26	86.76	39.99	35.4	12	30.89	100	79	P	V
		5956.8	57.12	-11.18	68.3	40.52	35.47	12.04	30.91	100	79	P	V
		5836	108.39	-	-	91.97	35.33	11.96	30.87	100	79	P	V
		5836	102.36	-	-	85.94	35.33	11.96	30.87	100	79	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20\_Partial 52 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE20 Partial 52/37 CH 149 5745MHz		5638.4	56.6	-11.7	68.3	40.84	34.81	11.72	30.77	100	102	P	H
		5651.6	56.53	-12.96	69.49	40.71	34.86	11.74	30.78	100	102	P	H
		5714.4	56.31	-53.02	109.33	40.27	35.03	11.82	30.81	100	102	P	H
		5724.8	55.85	-65.99	121.84	39.75	35.08	11.84	30.82	100	102	P	H
		5740	113.42	-	-	97.23	35.14	11.87	30.82	100	102	P	H
		5740	105.88	-	-	89.69	35.14	11.87	30.82	100	102	A	H
		5618	56	-12.3	68.3	40.33	34.75	11.69	30.77	100	82	P	V
		5680.4	56.92	-33.91	90.83	41.02	34.92	11.77	30.79	100	82	P	V
		5717.2	55.79	-54.33	110.12	39.75	35.03	11.82	30.81	100	82	P	V
		5723.2	56.04	-62.16	118.2	39.94	35.08	11.84	30.82	100	82	P	V
		5740	108.37	-	-	92.18	35.14	11.87	30.82	100	82	P	V
		5740	101.77	-	-	85.58	35.14	11.87	30.82	100	82	A	V
802.11ax HE20 Partial 52/40 CH 165 5825MHz		5851.2	55.36	-64.2	119.56	38.91	35.35	11.97	30.87	100	102	P	H
		5864.4	56.92	-51.35	108.27	40.45	35.37	11.98	30.88	100	102	P	H
		5891.2	56.39	-36.89	93.28	39.88	35.4	12	30.89	100	102	P	H
		5930	57.22	-11.08	68.3	40.67	35.43	12.02	30.9	100	102	P	H
		5830	112.73	-	-	96.3	35.33	11.96	30.86	100	102	P	H
		5830	106.02	-	-	89.59	35.33	11.96	30.86	100	102	A	H
		5853.6	54.7	-59.39	114.09	38.22	35.37	11.98	30.87	100	80	P	V
		5864.8	56.98	-51.17	108.15	40.51	35.37	11.98	30.88	100	80	P	V
		5892.4	56.92	-35.47	92.39	40.41	35.4	12	30.89	100	80	P	V
		5967.2	57.34	-10.96	68.3	40.74	35.47	12.04	30.91	100	80	P	V
	5830	111.36	-	-	94.93	35.33	11.96	30.86	100	80	P	V	
	5830	102.62	-	-	86.19	35.33	11.96	30.86	100	80	A	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20\_Partial 106 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE20 Partial 106/53 CH 149 5745MHz		5641.2	57.83	-10.47	68.3	42.07	34.81	11.72	30.77	106	100	P	H
		5686.8	56.51	-39.05	95.56	40.55	34.97	11.79	30.8	106	100	P	H
		5706.8	57.45	-49.76	107.21	41.41	35.03	11.82	30.81	106	100	P	H
		5723.2	56.03	-62.17	118.2	39.93	35.08	11.84	30.82	106	100	P	H
		5734	112.86	-	-	96.76	35.08	11.84	30.82	106	100	P	H
		5734	105.57	-	-	89.47	35.08	11.84	30.82	106	100	A	H
		5852.8	55.33	-60.59	115.92	38.88	35.35	11.97	30.87	103	82	P	V
		5857.6	56.55	-53.62	110.17	40.08	35.37	11.98	30.88	103	82	P	V
		5918	56.31	-17.15	73.46	39.78	35.42	12.01	30.9	103	82	P	V
		5993.2	57.56	-10.74	68.3	40.93	35.5	12.06	30.93	103	82	P	V
		5740	111.02	-	-	94.83	35.14	11.87	30.82	103	82	P	V
		5740	102.07	-	-	85.88	35.14	11.87	30.82	103	82	A	V
802.11ax HE20 Partial 106/54 CH 165 5825MHz		5852.8	56.02	-59.9	115.92	39.57	35.35	11.97	30.87	100	102	P	H
		5874.4	57.16	-48.31	105.47	40.68	35.38	11.99	30.89	100	102	P	H
		5886.8	57.43	-39.11	96.54	40.95	35.38	11.99	30.89	100	102	P	H
		5928.8	58.24	-10.06	68.3	41.69	35.43	12.02	30.9	100	102	P	H
		5830	113.15	-	-	96.72	35.33	11.96	30.86	100	102	P	H
		5830	105.46	-	-	89.03	35.33	11.96	30.86	100	102	A	H
		5852.4	56.64	-60.19	116.83	40.19	35.35	11.97	30.87	100	82	P	V
		5871.6	56.25	-50	106.25	39.76	35.38	11.99	30.88	100	82	P	V
		5924.4	56.7	-12.04	68.74	40.15	35.43	12.02	30.9	100	82	P	V
		5927.2	57.15	-11.15	68.3	40.6	35.43	12.02	30.9	100	82	P	V
	5830	110.55	-	-	94.12	35.33	11.96	30.86	100	82	P	V	
	5830	102.41	-	-	85.98	35.33	11.96	30.86	100	82	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40\_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE40 Full CH 151 5755MHz		5639.6	55.73	-12.57	68.3	39.97	34.81	11.72	30.77	105	101	P	H
		5680.8	55.7	-35.43	91.13	39.8	34.92	11.77	30.79	105	101	P	H
		5718.8	58.74	-51.82	110.56	42.63	35.08	11.84	30.81	105	101	P	H
		5724.8	60.98	-60.86	121.84	44.88	35.08	11.84	30.82	105	101	P	H
		5850.4	55.54	-65.85	121.39	39.09	35.35	11.97	30.87	105	101	P	H
		5860	56.77	-52.73	109.5	40.3	35.37	11.98	30.88	105	101	P	H
		5900	56.28	-30.48	86.76	39.77	35.4	12	30.89	105	101	P	H
		5970	57.09	-11.21	68.3	40.5	35.47	12.04	30.92	105	101	P	H
		5764	109.71	-	-	93.47	35.19	11.89	30.84	105	101	P	H
		5764	101.04	-	-	84.8	35.19	11.89	30.84	105	101	A	H
		5610.4	55.88	-12.42	68.3	40.28	34.7	11.67	30.77	105	78	P	V
		5658.8	55.86	-18.98	74.84	40.04	34.86	11.74	30.78	105	78	P	V
		5719.2	57.99	-52.69	110.68	41.88	35.08	11.84	30.81	105	78	P	V
		5724.4	59.92	-61.01	120.93	43.82	35.08	11.84	30.82	105	78	P	V
		5851.6	55.33	-63.32	118.65	38.88	35.35	11.97	30.87	105	78	P	V
		5859.2	56.56	-53.16	109.72	40.09	35.37	11.98	30.88	105	78	P	V
		5895.2	57.1	-33.21	90.31	40.59	35.4	12	30.89	105	78	P	V
		5995.2	56.81	-11.49	68.3	40.18	35.5	12.06	30.93	105	78	P	V
		5758	105.25	-	-	89	35.19	11.89	30.83	105	78	P	V
	5758	97.6	-	-	81.35	35.19	11.89	30.83	105	78	A	V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE40 Full CH 159 5795MHz		5644.8	56.11	-12.19	68.3	40.35	34.81	11.72	30.77	104	102	P	H
		5697.6	57.12	-46.41	103.53	41.16	34.97	11.79	30.8	104	102	P	H
		5704.4	56.1	-50.43	106.53	40.06	35.03	11.82	30.81	104	102	P	H
		5720.4	54.9	-56.91	111.81	38.79	35.08	11.84	30.81	104	102	P	H
		5850	55.34	-66.96	122.3	38.89	35.35	11.97	30.87	104	102	P	H
		5855.2	55.84	-55	110.84	39.37	35.37	11.98	30.88	104	102	P	H
		5922.4	57.17	-13.05	70.22	40.62	35.43	12.02	30.9	104	102	P	H
		5958.8	57.18	-11.12	68.3	40.58	35.47	12.04	30.91	104	102	P	H
		5800	109.26	-	-	92.87	35.3	11.94	30.85	104	102	P	H
		5800	101.01	-	-	84.62	35.3	11.94	30.85	104	102	A	H
		5645.6	56.54	-11.76	68.3	40.79	34.81	11.72	30.78	101	78	P	V
		5664.4	55.8	-23.19	78.99	39.98	34.86	11.74	30.78	101	78	P	V
		5704.4	55.89	-50.64	106.53	39.85	35.03	11.82	30.81	101	78	P	V
		5722.4	57.19	-59.18	116.37	41.09	35.08	11.84	30.82	101	78	P	V
		5851.2	55.14	-64.42	119.56	38.69	35.35	11.97	30.87	101	78	P	V
		5857.2	57.33	-52.95	110.28	40.86	35.37	11.98	30.88	101	78	P	V
		5893.2	57.17	-34.63	91.8	40.66	35.4	12	30.89	101	78	P	V
		5955.6	56.83	-11.47	68.3	40.23	35.47	12.04	30.91	101	78	P	V
		5788	105.09	-	-	88.69	35.3	11.94	30.84	101	78	P	V
	5788	97.83	-	-	81.43	35.3	11.94	30.84	101	78	A	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE40\_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE40 Full		11510	41.78	-32.22	74	46.93	38.2	17.08	60.43	100	360	P	H
CH 151 5755MHz		11510	42.7	-31.3	74	47.85	38.2	17.08	60.43	100	360	P	V
802.11ax HE40 Full		11590	42.13	-31.87	74	47.04	38.32	17.14	60.37	100	360	P	H
CH 159 5795MHz		11590	41.99	-32.01	74	46.9	38.32	17.14	60.37	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE40\_Partial 242 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE40 Partial 242/61 CH 151 5755MHz		5602.4	56.99	-11.31	68.3	41.38	34.7	11.67	30.76	100	101	P	H
		5696.8	56.42	-46.52	102.94	40.46	34.97	11.79	30.8	100	101	P	H
		5718	56.49	-53.85	110.34	40.38	35.08	11.84	30.81	100	101	P	H
		5724.8	60.81	-61.03	121.84	44.71	35.08	11.84	30.82	100	101	P	H
		5854.8	55.7	-55.66	111.36	39.23	35.37	11.98	30.88	100	101	P	H
		5871.2	56.36	-50	106.36	39.87	35.38	11.99	30.88	100	101	P	H
		5907.6	57.26	-23.88	81.14	40.72	35.42	12.01	30.89	100	101	P	H
		5981.2	57.79	-10.51	68.3	41.18	35.48	12.05	30.92	100	101	P	H
		5746	108.9	-	-	92.72	35.14	11.87	30.83	100	101	P	H
		5746	100.53	-	-	84.35	35.14	11.87	30.83	100	101	A	H
		5628.4	56.47	-11.83	68.3	40.8	34.75	11.69	30.77	100	81	P	V
		5650.8	55.71	-13.18	68.89	39.89	34.86	11.74	30.78	100	81	P	V
		5719.2	55.63	-55.05	110.68	39.52	35.08	11.84	30.81	100	81	P	V
		5724.4	57.49	-63.44	120.93	41.39	35.08	11.84	30.82	100	81	P	V
		5852.8	54.95	-60.97	115.92	38.5	35.35	11.97	30.87	100	81	P	V
		5871.6	55.86	-50.39	106.25	39.37	35.38	11.99	30.88	100	81	P	V
		5890	56.7	-37.47	94.17	40.19	35.4	12	30.89	100	81	P	V
		5987.6	58.91	-9.39	68.3	42.31	35.48	12.05	30.93	100	81	P	V
	5740	104.37	-	-	88.18	35.14	11.87	30.82	100	81	P	V	
	5740	96.59	-	-	80.4	35.14	11.87	30.82	100	81	A	V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE40 Partial 242/62 CH 159 5795MHz		5625.2	56.45	-11.85	68.3	40.78	34.75	11.69	30.77	100	102	P	H
		5665.6	56.37	-23.51	79.88	40.56	34.86	11.74	30.79	100	102	P	H
		5705.2	56.64	-50.12	106.76	40.6	35.03	11.82	30.81	100	102	P	H
		5724.8	54.65	-67.19	121.84	38.55	35.08	11.84	30.82	100	102	P	H
		5854.8	54.95	-56.41	111.36	38.48	35.37	11.98	30.88	100	102	P	H
		5870.4	55.51	-51.08	106.59	39.04	35.37	11.98	30.88	100	102	P	H
		5912.8	57.64	-19.66	77.3	41.11	35.42	12.01	30.9	100	102	P	H
		5950.8	56.65	-11.65	68.3	40.08	35.45	12.03	30.91	100	102	P	H
		5800	109.15	-	-	92.76	35.3	11.94	30.85	100	102	P	H
		5800	100.52	-	-	84.13	35.3	11.94	30.85	100	102	A	H
		5632.8	56.66	-11.64	68.3	40.9	34.81	11.72	30.77	100	81	P	V
		5685.2	57.77	-36.61	94.38	41.81	34.97	11.79	30.8	100	81	P	V
		5710.8	56.18	-52.15	108.33	40.14	35.03	11.82	30.81	100	81	P	V
		5722	54.98	-60.48	115.46	38.88	35.08	11.84	30.82	100	81	P	V
		5851.2	55.59	-63.97	119.56	39.14	35.35	11.97	30.87	100	81	P	V
		5856.8	56.49	-53.91	110.4	40.02	35.37	11.98	30.88	100	81	P	V
		5912.4	57.1	-20.49	77.59	40.57	35.42	12.01	30.9	100	81	P	V
		5936	57.34	-10.96	68.3	40.8	35.43	12.02	30.91	100	81	P	V
	5800	105.01	-	-	88.62	35.3	11.94	30.85	100	81	P	V	
	5800	96.75	-	-	80.36	35.3	11.94	30.85	100	81	A	V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE80\_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )	
802.11ax HE80 Full CH 155 5775MHz		5606.4	56.21	-12.09	68.3	40.6	34.7	11.67	30.76	100	102	P	H	
		5656.4	56.99	-16.06	73.05	41.17	34.86	11.74	30.78	100	102	P	H	
		5719.6	56.76	-54.03	110.79	40.65	35.08	11.84	30.81	100	102	P	H	
		5721.2	56.28	-57.36	113.64	40.17	35.08	11.84	30.81	100	102	P	H	
		5850	56.08	-66.22	122.3	39.63	35.35	11.97	30.87	100	102	P	H	
		5869.6	57.52	-49.29	106.81	41.05	35.37	11.98	30.88	100	102	P	H	
		5910.8	57.79	-20.99	78.78	41.25	35.42	12.01	30.89	100	102	P	H	
		5929.6	57.42	-10.88	68.3	40.87	35.43	12.02	30.9	100	102	P	H	
		5770	105.91	-	-	-	89.58	35.25	11.92	30.84	100	102	P	H
		5770	98.19	-	-	-	81.86	35.25	11.92	30.84	100	102	A	H
		5610	57.75	-10.55	68.3	42.15	34.7	11.67	30.77	100	79	P	V	
		5678	56.92	-32.14	89.06	41.02	34.92	11.77	30.79	100	79	P	V	
		5704.4	57.01	-49.52	106.53	40.97	35.03	11.82	30.81	100	79	P	V	
		5724.4	55.54	-65.39	120.93	39.44	35.08	11.84	30.82	100	79	P	V	
		5853.6	55.97	-58.12	114.09	39.49	35.37	11.98	30.87	100	79	P	V	
		5870	56.35	-50.35	106.7	39.88	35.37	11.98	30.88	100	79	P	V	
		5877.6	58.01	-45.36	103.37	41.53	35.38	11.99	30.89	100	79	P	V	
		5933.2	57.4	-10.9	68.3	40.86	35.43	12.02	30.91	100	79	P	V	
	5794	103.81	-	-	-	87.41	35.3	11.94	30.84	100	79	P	V	
	5794	94.44	-	-	-	78.04	35.3	11.94	30.84	100	79	A	V	

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



Band 4 5725~5850MHz

WIFI 802.11ax HE80\_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE80 Full		11550	44.03	-29.97	74	49.03	38.27	17.12	60.39	360	0	P	H
CH 155 5775MHz		11550	44.36	-29.64	74	49.36	38.27	17.12	60.39	100	0	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE80\_Partial 484 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE80 Partial 484/65 CH 155 5775MHz		5600.8	56.15	-12.15	68.3	40.54	34.7	11.67	30.76	102	102	P	H
		5686	57.03	-37.94	94.97	41.07	34.97	11.79	30.8	102	102	P	H
		5718.8	58.88	-51.68	110.56	42.77	35.08	11.84	30.81	102	102	P	H
		5724.4	64.94	-55.99	120.93	48.84	35.08	11.84	30.82	102	102	P	H
		5852.4	56.63	-60.2	116.83	40.18	35.35	11.97	30.87	102	102	P	H
		5873.6	56.71	-48.98	105.69	40.23	35.38	11.99	30.89	102	102	P	H
		5877.6	56.5	-46.87	103.37	40.02	35.38	11.99	30.89	102	102	P	H
		5941.6	57.7	-10.6	68.3	41.13	35.45	12.03	30.91	102	102	P	H
		5752	104.82	-	-	88.57	35.19	11.89	30.83	102	102	P	H
		5752	96.35	-	-	80.1	35.19	11.89	30.83	102	102	A	H
		5630	56.75	-11.55	68.3	41.08	34.75	11.69	30.77	100	82	P	V
		5688.4	56.29	-40.45	96.74	40.33	34.97	11.79	30.8	100	82	P	V
		5718.4	57.43	-53.02	110.45	41.32	35.08	11.84	30.81	100	82	P	V
		5724.8	61.08	-60.76	121.84	44.98	35.08	11.84	30.82	100	82	P	V
		5850.4	55.6	-65.79	121.39	39.15	35.35	11.97	30.87	100	82	P	V
		5857.6	56.47	-53.7	110.17	40	35.37	11.98	30.88	100	82	P	V
		5880.4	56.66	-44.63	101.29	40.18	35.38	11.99	30.89	100	82	P	V
		5940	57.52	-10.78	68.3	40.95	35.45	12.03	30.91	100	82	P	V
	5770	100.58	-	-	84.25	35.25	11.92	30.84	100	82	P	V	
	5770	92.93	-	-	76.6	35.25	11.92	30.84	100	82	A	V	

**Remark**

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



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( 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 )
802.11ax HE80 Partial 484/66 CH 155 5775MHz		5649.2	56.16	-12.14	68.3	40.41	34.81	11.72	30.78	104	102	P	H
		5667.6	56.62	-24.74	81.36	40.72	34.92	11.77	30.79	104	102	P	H
		5719.6	58.27	-52.52	110.79	42.16	35.08	11.84	30.81	104	102	P	H
		5724.8	66.49	-55.35	121.84	50.39	35.08	11.84	30.82	104	102	P	H
		5854.4	54.97	-57.3	112.27	38.49	35.37	11.98	30.87	104	102	P	H
		5863.2	56.6	-52	108.6	40.13	35.37	11.98	30.88	104	102	P	H
		5882.4	57.19	-42.61	99.8	40.71	35.38	11.99	30.89	104	102	P	H
		5958.4	57.47	-10.83	68.3	40.87	35.47	12.04	30.91	104	102	P	H
		5782	104.68	-	-	88.35	35.25	11.92	30.84	104	102	P	H
		5782	96.1	-	-	79.77	35.25	11.92	30.84	104	102	A	H
		5622.4	56.26	-12.04	68.3	40.59	34.75	11.69	30.77	100	81	P	V
		5650.8	56.19	-12.7	68.89	40.37	34.86	11.74	30.78	100	81	P	V
		5719.2	55.66	-55.02	110.68	39.55	35.08	11.84	30.81	100	81	P	V
		5723.6	62.71	-56.4	119.11	46.61	35.08	11.84	30.82	100	81	P	V
		5853.6	56.07	-58.02	114.09	39.59	35.37	11.98	30.87	100	81	P	V
		5871.6	57.25	-49	106.25	40.76	35.38	11.99	30.88	100	81	P	V
		5902.4	56.34	-28.65	84.99	39.83	35.4	12	30.89	100	81	P	V
		5987.2	57.05	-11.25	68.3	40.44	35.48	12.05	30.92	100	81	P	V
	5794	101.2	-	-	84.8	35.3	11.94	30.84	100	81	P	V	
	5794	92.31	-	-	75.91	35.3	11.94	30.84	100	81	A	V	

**Remark**

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



Emission below 1GHz

WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11ax HE20 Full LF		30.97	19.46	-20.54	40	26.01	24.81	0.84	32.2	-	-	P	H
		61.04	18.69	-21.31	40	37.4	12.05	1.34	32.1	-	-	P	H
		119.24	20.16	-23.34	43.5	32.81	17.61	1.9	32.16	-	-	P	H
		300.63	20.89	-25.11	46	30.5	19.46	3.03	32.1	-	-	P	H
		568.35	24.21	-21.79	46	26.75	25.61	4.15	32.3	-	-	P	H
		814.73	31.73	-14.27	46	30.67	28.43	4.96	32.33	100	0	P	H
		33.88	30.04	-9.96	40	38.06	23.27	0.91	32.2	100	0	P	V
		60.07	28.97	-11.03	40	47.68	12.06	1.33	32.1	-	-	P	V
		113.42	26.07	-17.43	43.5	38.99	17.4	1.85	32.17	-	-	P	V
		324.88	19.74	-26.26	46	28.96	19.79	3.14	32.15	-	-	P	V
		695.42	25.63	-20.37	46	26.57	26.68	4.58	32.2	-	-	P	V
	818.61	33.39	-12.61	46	32.24	28.52	4.97	32.34	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



**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>over limit</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	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		( 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													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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. Over Limit(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. Over Limit(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. Over Limit(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”.**

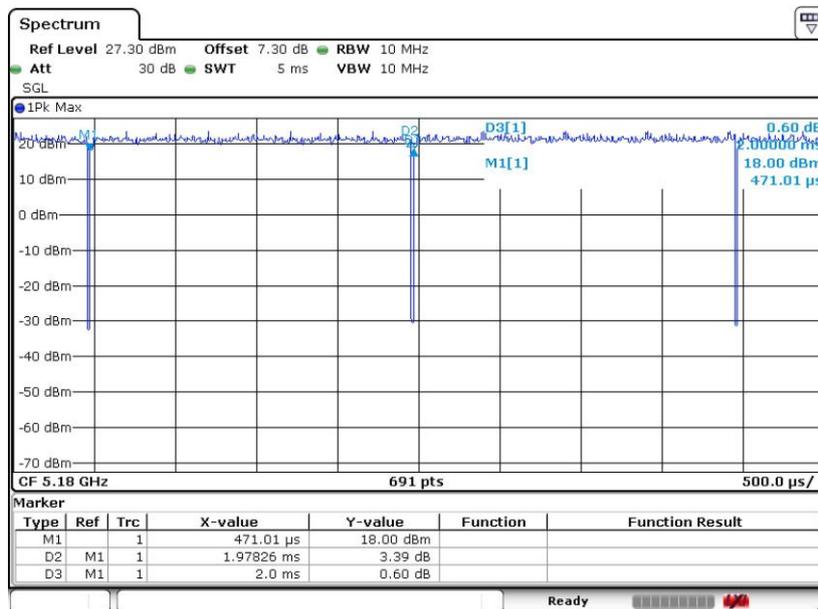


## Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11a	98.91	-	-	10Hz
1+2	802.11n HT20	100	-	-	10Hz
1+2	802.11n HT40	100	-	-	10Hz
1+2	802.11ac VHT80	100	-	-	10Hz
1+2	802.11ax HE20	100	-	-	10Hz
1+2	802.11ax HE40	100	-	-	10Hz
1+2	802.11ax HE80	100	-	-	10Hz

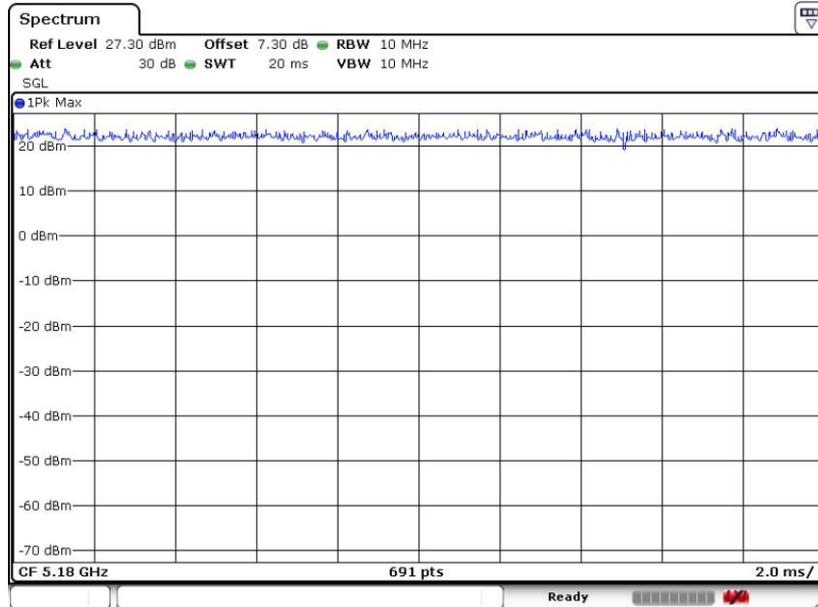
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#### 802.11a

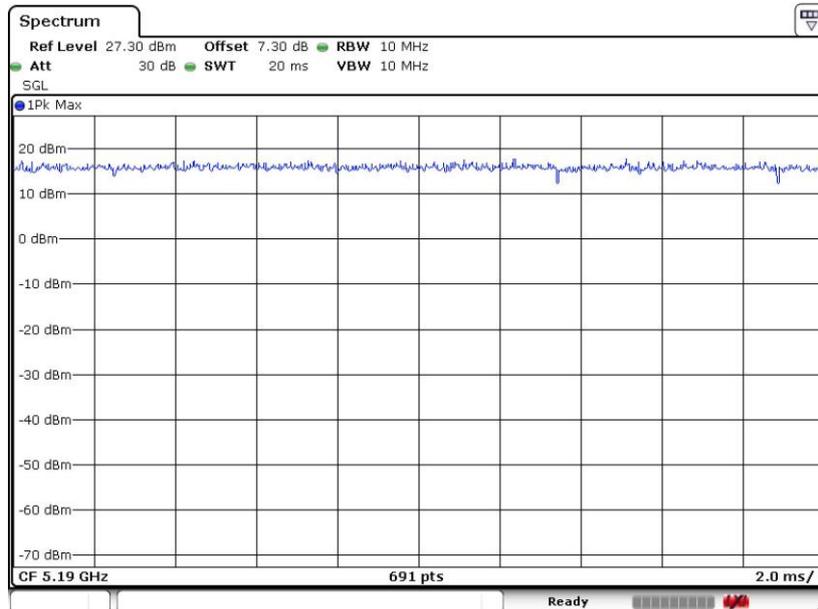




802.11n HT20

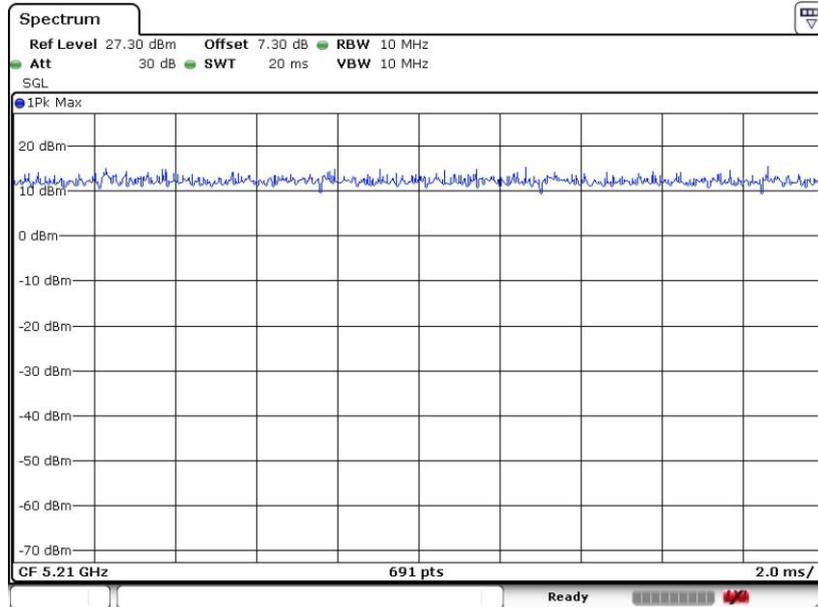


802.11n HT40

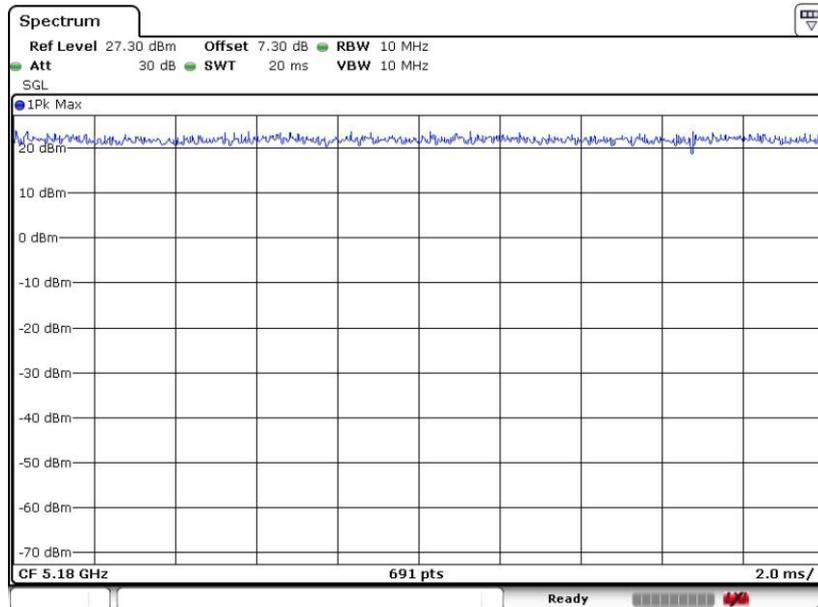




802.11ac VHT80

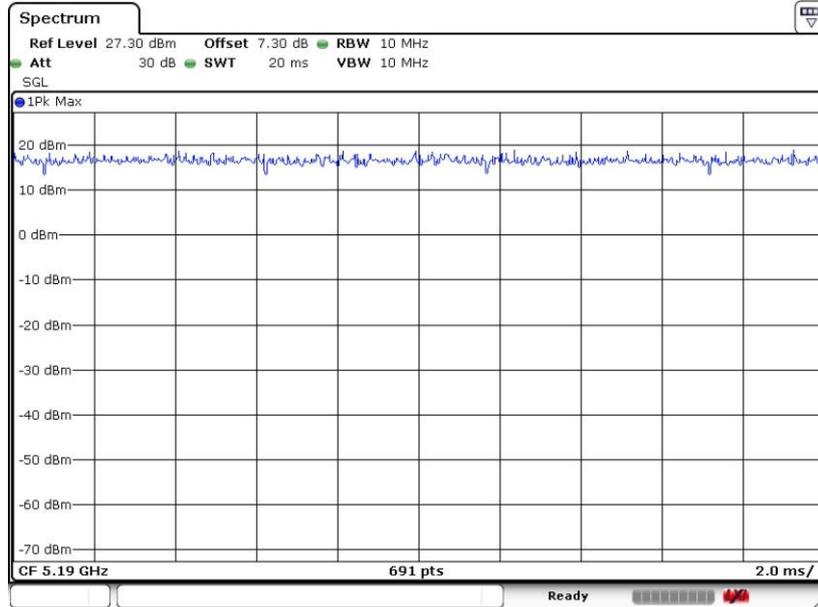


802.11ax HE20





### 802.11ax HE40



### 802.11ax HE80

