



# FCC RADIO TEST REPORT

**FCC ID** : 2AFZZK11AG  
**Equipment** : Mobile Phone  
**Brand Name** : POCO  
**Model Name** : M2012K11AG  
**Applicant** : Xiaomi Communications Co., Ltd.  
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer** : Xiaomi Communications Co., Ltd.  
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Jan. 05, 2021 and testing was started from Jan. 08, 2021 and completed on Jan. 26, 2021. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 10.66 dB at 77.530 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 15.59 dB at 0.499 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

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.

**Reviewed by: Wii Chang**

**Report Producer: Ruby Zou**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC and GNSS.

Product Specification subjective to this standard	
Sample 1	EUT with Battery 1
Sample 2	EUT with Battery 2
Antenna Type	<b>WWAN:</b> PIFA Antenna <b>WLAN 5GHz:</b> <Ant. 11>: PIFA Antenna <Ant. 6>: PIFA Antenna <b>WLAN 2.4GHz:</b> <Ant. 11>: PIFA Antenna <Ant. 7>: PIFA Antenna <b>Bluetooth:</b> <Ant. 11>: PIFA Antenna <Ant. 7>: PIFA Antenna <b>GPS / Glonass / BDS / Galileo:</b> <L1 Ant.>: PIFA Antenna <L5 Ant.>: PIFA Antenna <b>NFC:</b> Planar Antenna
Antenna information	
5725 MHz ~ 5850 MHz	Peak Gain (dBi)    Ant. 11: -2.10 Ant. 6: -3.40

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

## 1.2 Modification of EUT

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



### 1.3 Testing Location

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH05-HY, CO05-HY

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

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH16-HY

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

FCC designation No.: TW1190 and TW0007

### 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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. The TAF code is not including all the FCC KDB listed without accreditation.



## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, 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.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

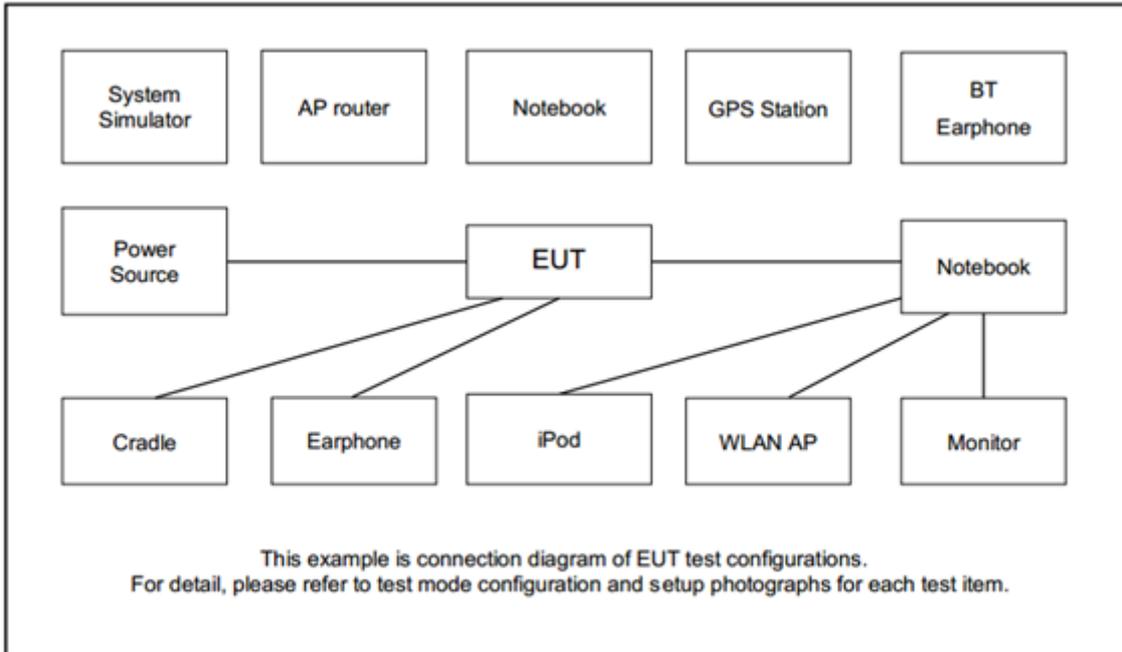
Test Cases	
<b>AC Conducted Emission</b>	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + USB Cable (Charging from Adapter) for Sample 1
<b>Remark:</b> For Radiated Test Cases, the tests were performed with Sample 1.	

Ch. #		Band IV : 5725-5850 MHz	
		802.11a	802.11n HT20
L	Low	149	149
M	Middle	157	157
H	High	165	165

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	-

**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



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

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m

### 2.5 EUT Operation Test Setup

The RF test items make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



## 2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

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

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

### 3 Test Result

#### 3.1 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.

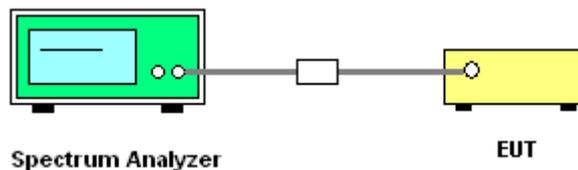
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

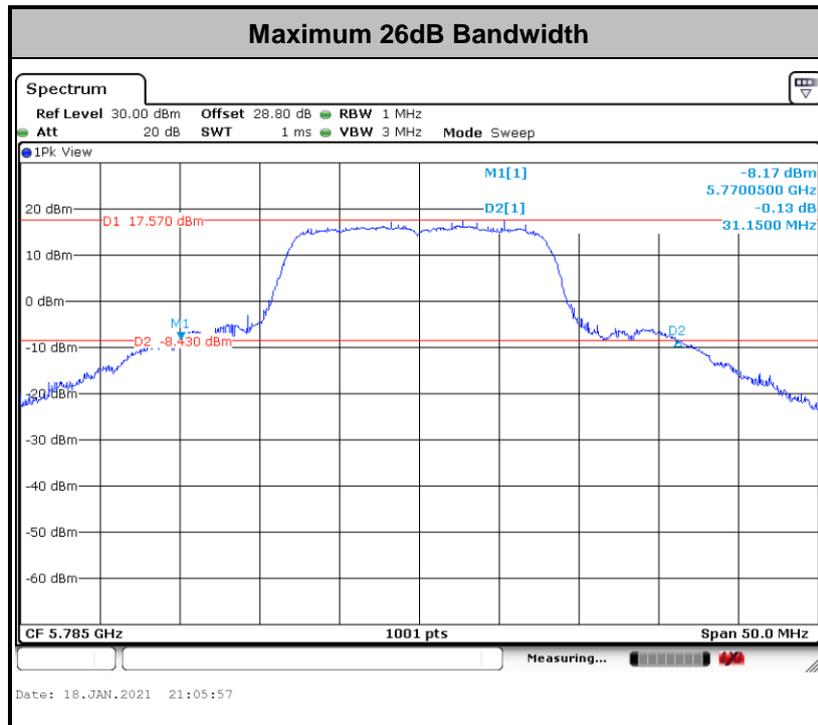
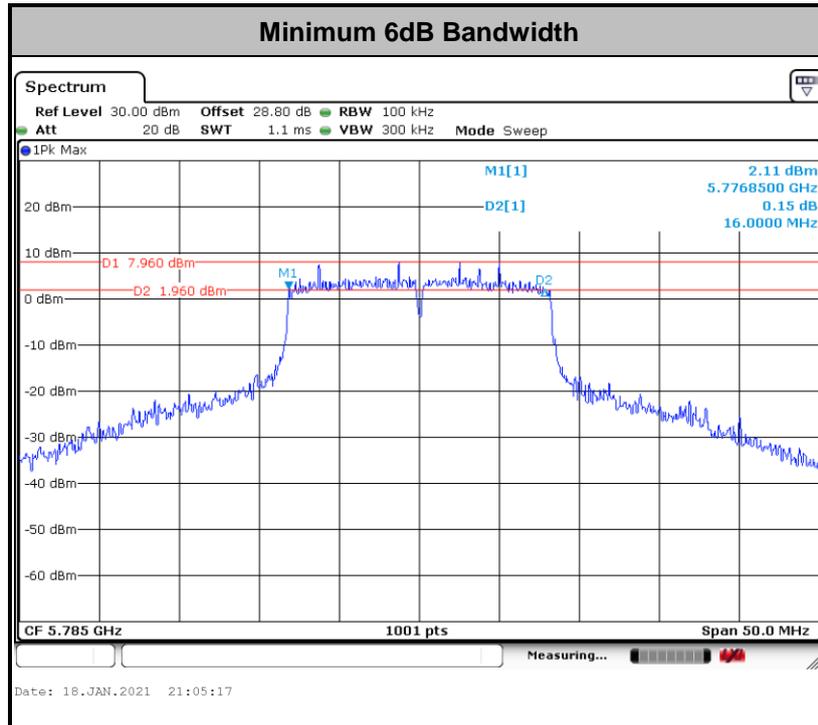
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is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

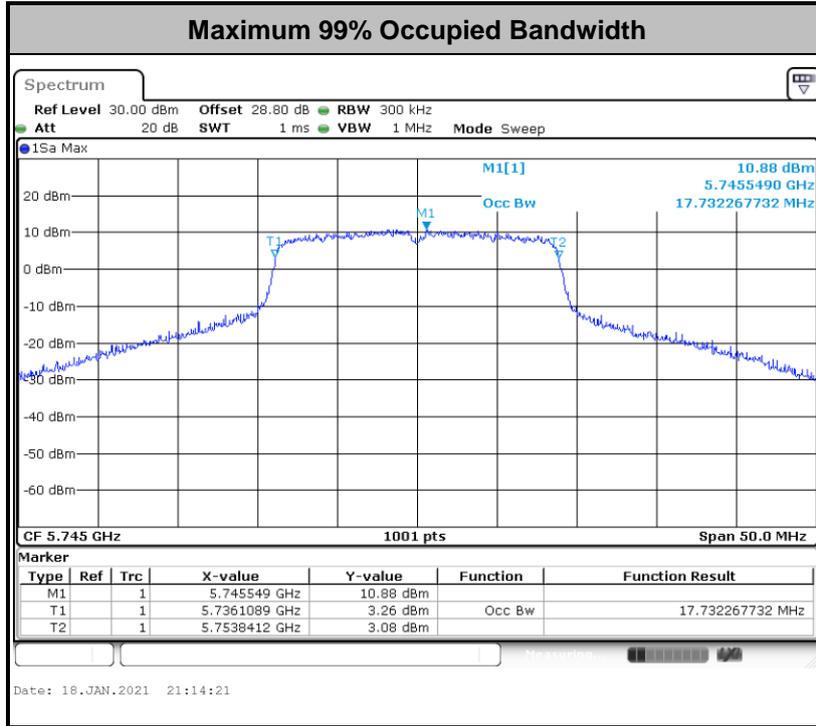
##### 3.1.4 Test Setup



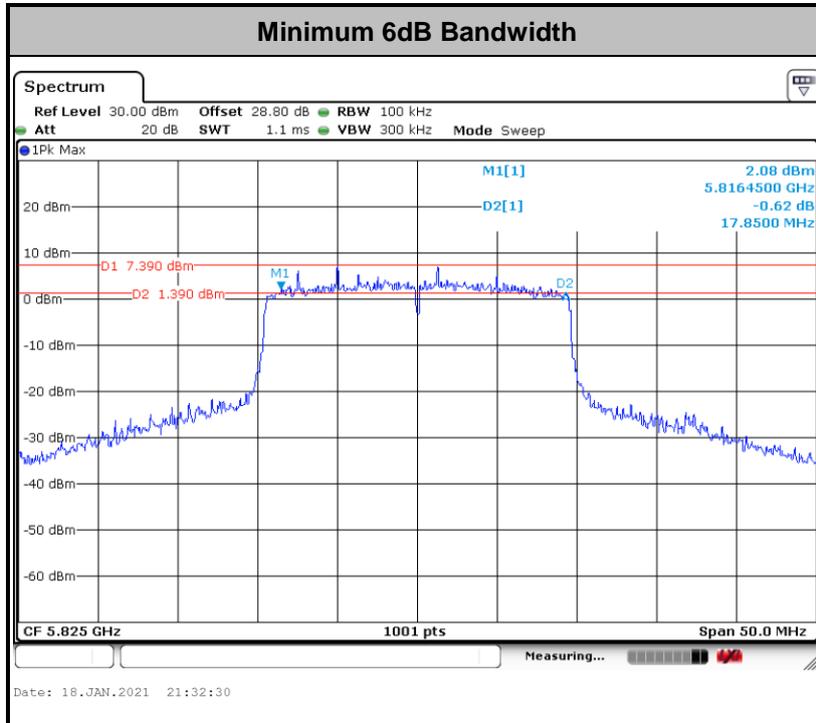
##### 3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

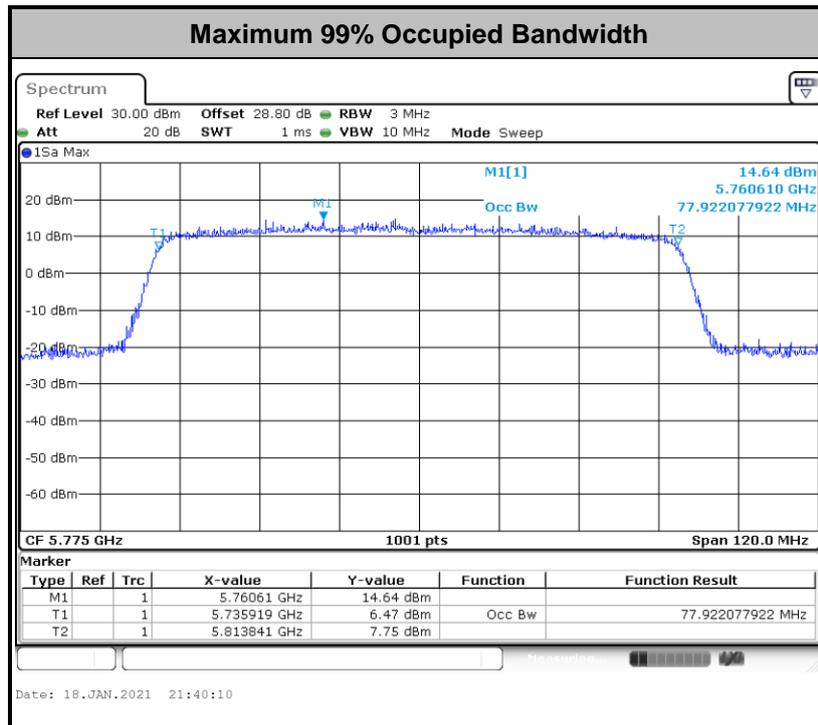
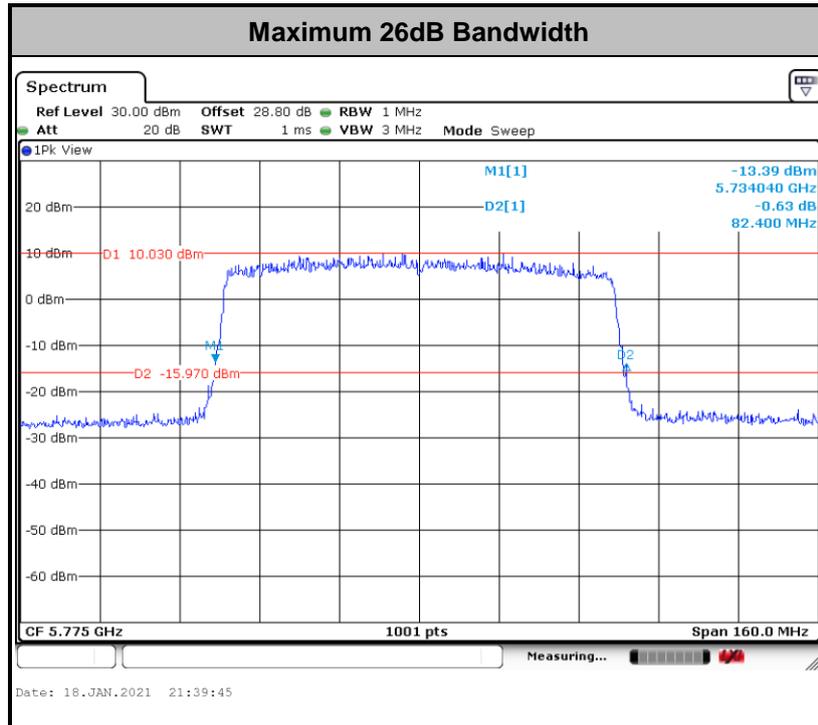
Please refer to Appendix A.





<For 802.11ax mode>





**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.

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

See list of measuring equipment of this test report.

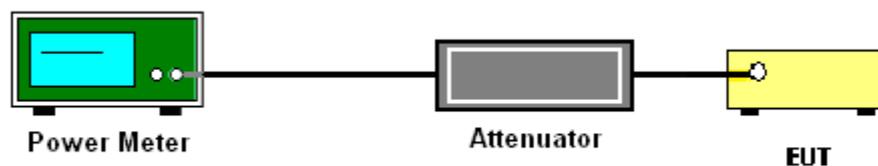
### 3.2.3 Test Procedures

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

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

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

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

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

See list of measuring equipment 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-3 #

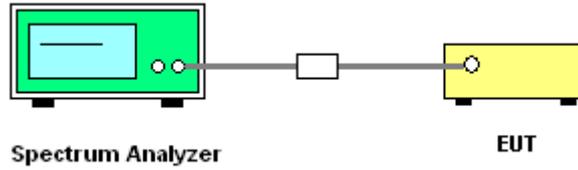
(power averaging (rms) detection with max hold):

- 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  $\leq$  (number of points in sweep)  $\times$  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.  
Detector = power averaging (rms).
  - Trace mode = max hold.
  - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
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.

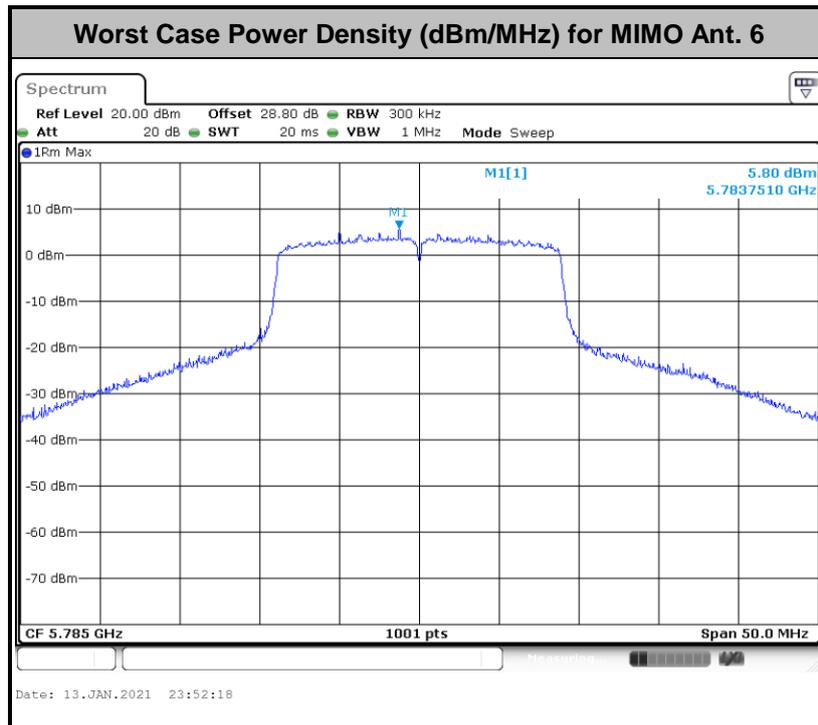
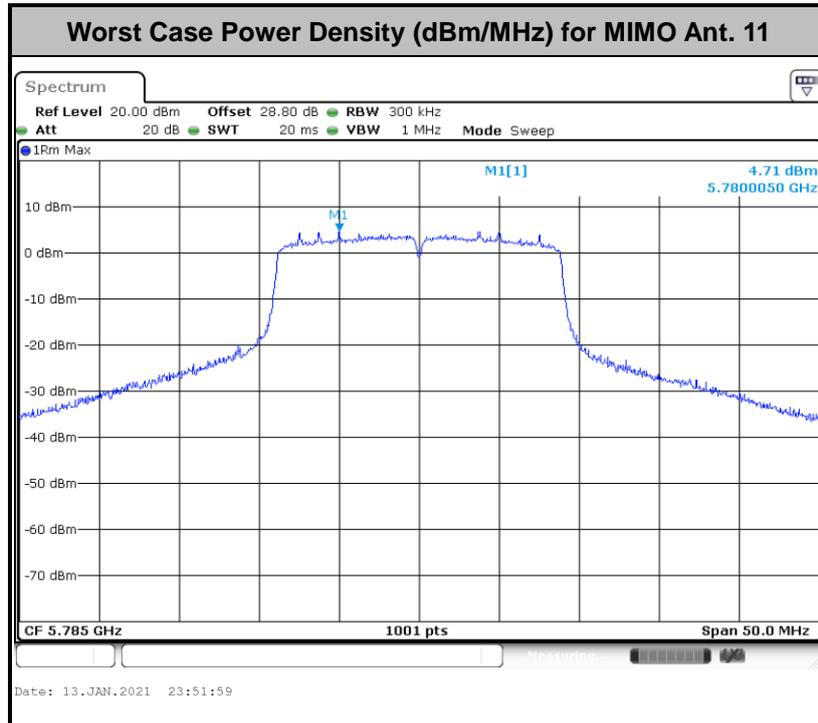
With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity  $10 \log(N_{\text{ANT}})$  dB is added to each spectrum value before comparing to the emission limit. The addition of  $10 \log(N_{\text{ANT}})$  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



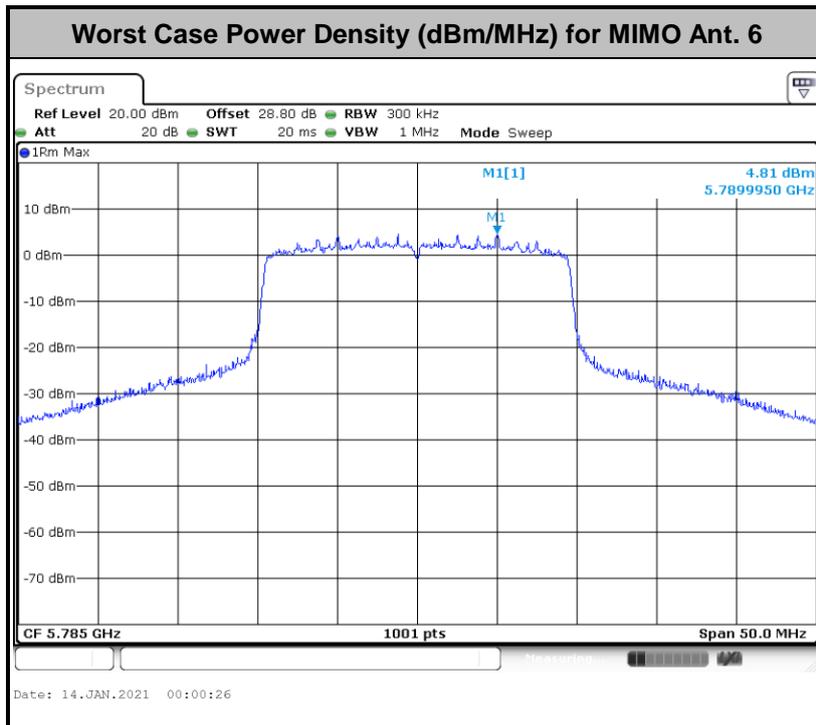
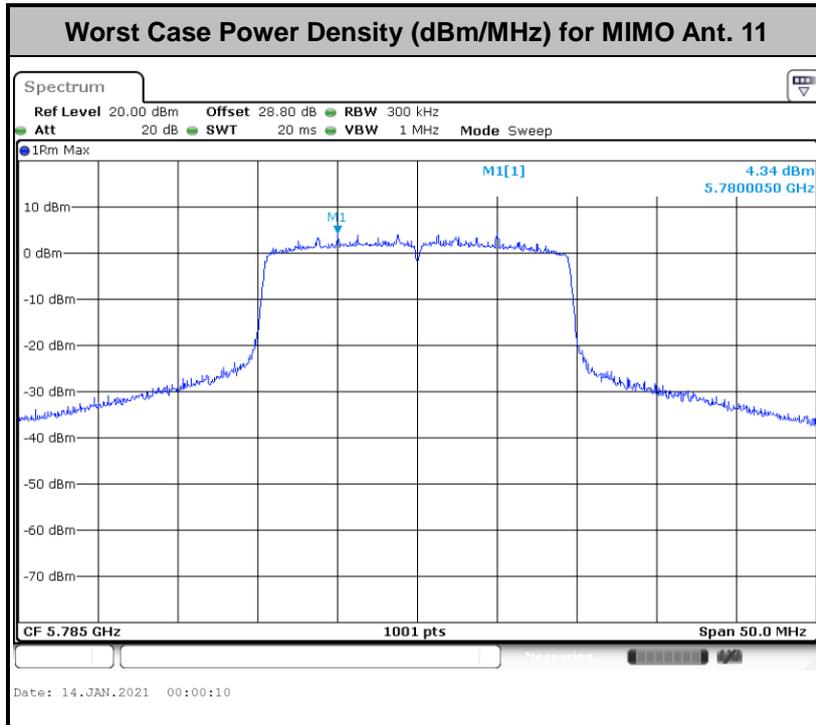
### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





<For 802.11ax mode>





### 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.

#### <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

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

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

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

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

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

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



### 3.4.1 Measuring Instruments

See list of measuring equipment of this test report.

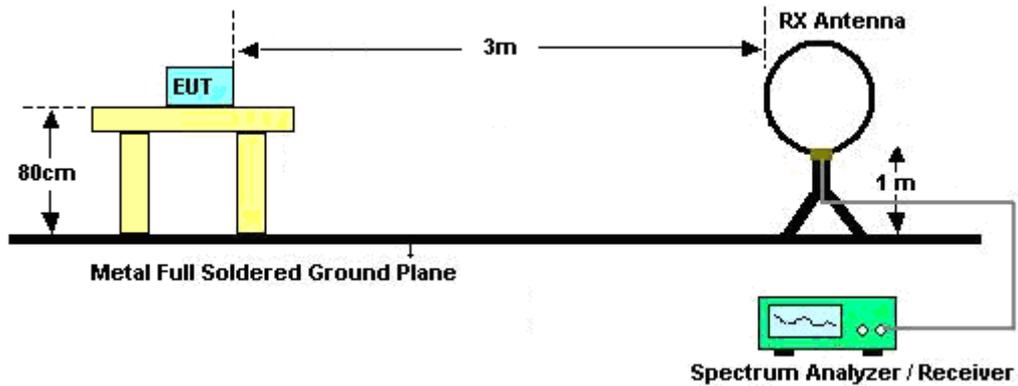
### 3.4.2 Test Procedures

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.

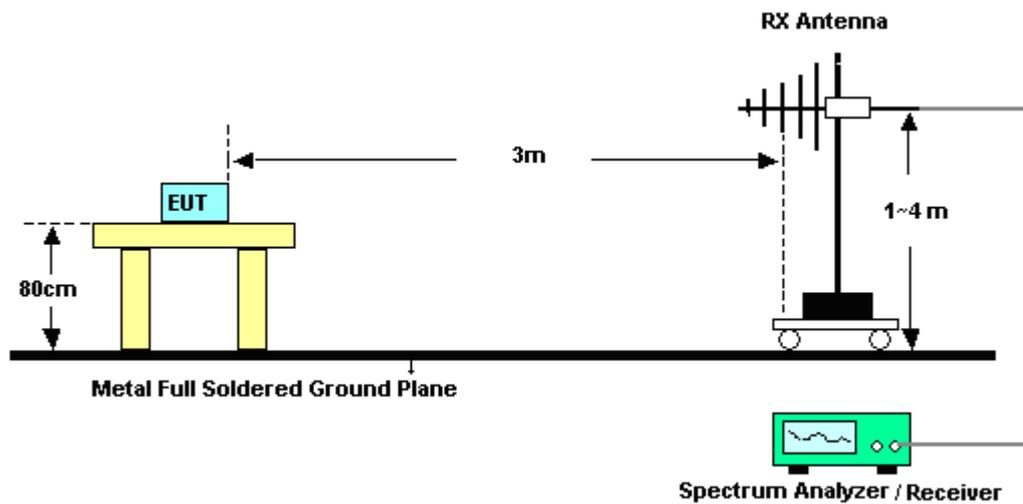
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.3 Test Setup

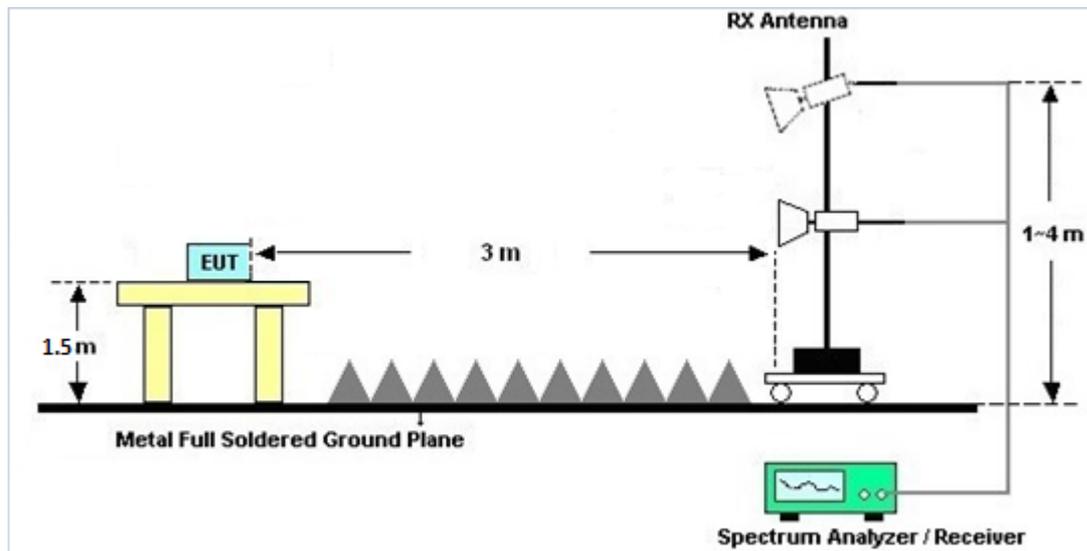
For radiated emissions below 30MHz



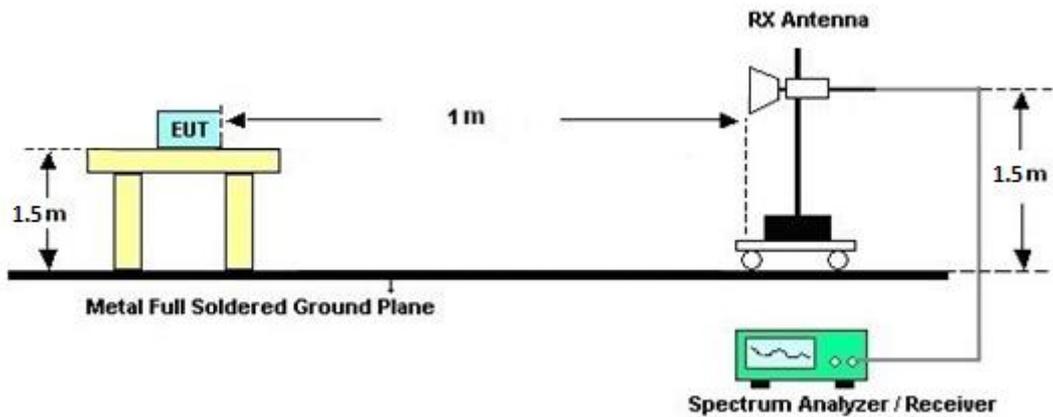
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





### **3.4.4 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 alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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

Please refer to Appendix C and D.

### **3.4.6 Duty Cycle**

Please refer to Appendix E.

### **3.4.7 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)**

Please refer to Appendix C and 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.

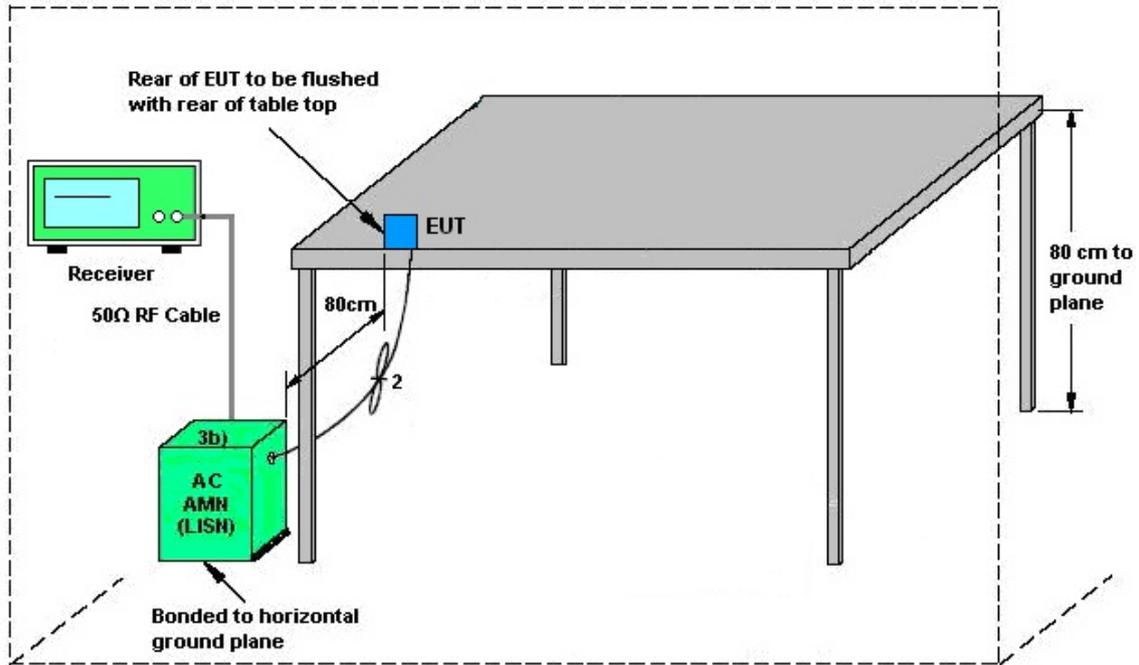
#### 3.5.2 Measuring Instruments

See list of measuring equipment 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



AMN = Artificial mains network (LISN)  
AE = Associated equipment  
EUT = Equipment under test  
ISN = Impedance stabilization network

### 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**

See list of measuring equipment 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 = G<sub>ANT</sub> + 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 G<sub>ANT</sub> set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G<sub>ANT</sub> 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.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 11	Ant. 6	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	-2.10	-3.40	-2.10	0.28	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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 22, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Jan. 22, 2021	Sep. 10, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jan. 22, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Jan. 22, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 22, 2021	N/A	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jan. 22, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	ESHVTS D 9561-F N3-Z2	109561-F N0037308 51	9kHz-200MHz	Nov. 02, 2020	Jan. 22, 2021	Nov. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Jan. 08, 2021~ Jan. 18, 2021	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 09, 2020	Jan. 08, 2021~ Jan. 18, 2021	Dec. 08, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Jan. 08, 2021~ Jan. 18, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Jan. 08, 2021~ Jan. 18, 2021	Mar. 16, 2021	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Jan. 13, 2021~ Jan. 26, 2021	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz to 1GHz	Oct. 11, 2020	Jan. 13, 2021~ Jan. 26, 2021	Oct. 10, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30, 2020	Jan. 13, 2021~ Jan. 26, 2021	Sep. 29, 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-152 2	1G~18GHz	Sep. 29, 2020	Jan. 13, 2021~ Jan. 26, 2021	Sep. 28, 2021	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Jul. 10, 2020	Jan. 13, 2021~ Jan. 26, 2021	Jul. 09, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz ~40GHz	May 22, 2010	Jan. 13, 2021~ Jan. 26, 2021	May 21, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY532702 64	1GHz~26.5GHz	Dec. 10, 2020	Jan. 13, 2021~ Jan. 26, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY572901 11	3Hz~26.5GHz	Dec. 11, 2020	Jan. 13, 2021~ Jan. 26, 2021	Dec. 10, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/ 4PE	NA	Aug. 29, 2020	Jan. 13, 2021~ Jan. 26, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/ 4PE	NA	Aug. 29, 2020	Jan. 13, 2021~ Jan. 26, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300 -5757	NA	Aug. 29, 2020	Jan. 13, 2021~ Jan. 26, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jan. 13, 2021~ Jan. 26, 2021	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jan. 13, 2021~ Jan. 26, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 13, 2021~ Jan. 26, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 13, 2021~ Jan. 26, 2021	N/A	Radiation (03CH16-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.3
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.5
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.3
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.7
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Rebecca Li/Hank Hsu	Temperature:	21~25	°C
Test Date:	2021/1/8~2021/1/18	Relative Humidity:	51~54	%

**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 11	Ant 6	Ant 11	Ant 6	Ant 11	Ant 6		
11a	6Mbps	2	149	5745	16.43	16.58	27.10	30.05	16.30	16.30	0.5	Pass
11a	6Mbps	2	157	5785	16.58	16.73	30.70	31.15	16.00	16.30	0.5	Pass
11a	6Mbps	2	165	5825	16.63	16.73	30.60	31.00	16.30	16.30	0.5	Pass
HT20	MCS0	2	149	5745	17.58	17.73	23.80	29.90	17.00	17.20	0.5	Pass
HT20	MCS0	2	157	5785	17.63	17.73	25.95	31.05	17.25	17.15	0.5	Pass
HT20	MCS0	2	165	5825	17.68	17.73	27.35	29.95	17.50	16.80	0.5	Pass

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

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 11	Ant 6	SUM	Ant 11	Ant 6	Ant 11	Ant 6	
11a	6Mbps	2	149	5745	19.20	19.60	22.41	30.00	30.00	-2.10	Pass	
11a	6Mbps	2	157	5785	19.30	19.50	22.41	30.00	30.00	-2.10	Pass	
11a	6Mbps	2	165	5825	19.40	19.50	22.46	30.00	30.00	-2.10	Pass	
HT20	MCS0	2	149	5745	19.00	19.40	22.21	30.00	30.00	-2.10	Pass	
HT20	MCS0	2	157	5785	19.10	19.30	22.21	30.00	30.00	-2.10	Pass	
HT20	MCS0	2	165	5825	19.20	19.30	22.26	30.00	30.00	-2.10	Pass	
HT40	MCS0	2	151	5755	17.40	17.70	20.56	30.00	30.00	-2.10	Pass	
HT40	MCS0	2	159	5795	17.60	17.90	20.76	30.00	30.00	-2.10	Pass	
VHT20	MCS0	2	149	5745	18.20	18.50	21.36	30.00	30.00	-2.10	Pass	
VHT20	MCS0	2	157	5785	18.30	18.50	21.41	30.00	30.00	-2.10	Pass	
VHT20	MCS0	2	165	5825	18.50	18.40	21.46	30.00	30.00	-2.10	Pass	
VHT40	MCS0	2	151	5755	17.40	17.70	20.56	30.00	30.00	-2.10	Pass	
VHT40	MCS0	2	159	5795	17.60	17.90	20.76	30.00	30.00	-2.10	Pass	
VHT80	MCS0	2	155	5775	16.30	16.70	19.51	30.00	30.00	-2.10	Pass	

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

Band IV MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 11	Ant 6	Ant 11	Ant 6	SUM	Ant 11	Ant 6	Ant 11	Ant 6	
11a	6Mbps	2	149	5745	2.22	2.22	6.97	7.62	10.63	30.00	30.00	0.28	0.28	Pass
11a	6Mbps	2	157	5785	2.22	2.22	7.14	7.83	10.84	30.00	30.00	0.28	0.28	Pass
11a	6Mbps	2	165	5825	2.22	2.22	7.28	7.75	10.76	30.00	30.00	0.28	0.28	Pass
HT20	MCS0	2	149	5745	2.22	2.22	7.15	7.40	10.41	30.00	30.00	0.28	0.28	Pass
HT20	MCS0	2	157	5785	2.22	2.22	6.93	8.02	11.03	30.00	30.00	0.28	0.28	Pass
HT20	MCS0	2	165	5825	2.22	2.22	7.45	7.75	10.76	30.00	30.00	0.28	0.28	Pass

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

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

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 11	Ant 6	Ant 11	Ant 6	Ant 11	Ant 6		
HE20	MCS0	2	149	5745	Full	18.88	18.93	22.60	23.35	18.65	18.25	0.5	Pass
HE20	MCS0	2	157	5785	Full	18.93	18.98	23.50	25.85	18.50	17.90	0.5	Pass
HE20	MCS0	2	165	5825	Full	18.88	18.93	23.70	24.95	18.20	17.85	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.86	37.96	41.22	41.40	37.35	35.73	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.96	37.96	41.13	41.40	37.80	36.27	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.92	77.92	82.40	82.08	76.48	72.64	0.5	Pass

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

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 11	Ant 6	SUM	Ant 11	Ant 6	Ant 11	Ant 6	
HE20	MCS0	2	149	5745	Full	18.30	18.60	21.46	30.00	30.00	-2.10	-2.10	Pass
HE20	MCS0	2	149	5745	26/0	10.60	11.10	13.87	30.00	30.00	-2.10	-2.10	Pass
HE20	MCS0	2	149	5745	52/37	13.70	14.20	16.97	30.00	30.00	-2.10	-2.10	Pass
HE20	MCS0	2	149	5745	106/53	16.90	17.30	20.11	30.00	30.00	-2.10	-2.10	Pass
HE20	MCS0	2	157	5785	Full	18.40	18.60	21.51	30.00	30.00	-2.10	-2.10	Pass
HE20	MCS0	2	165	5825	Full	18.60	18.50	21.56	30.00	30.00	-2.10	-2.10	Pass
HE20	MCS0	2	165	5825	26/8	11.30	11.20	14.26	30.00	30.00	-2.10	-2.10	Pass
HE20	MCS0	2	165	5825	52/40	14.50	14.50	17.51	30.00	30.00	-2.10	-2.10	Pass
HE20	MCS0	2	165	5825	106/54	17.10	17.10	20.11	30.00	30.00	-2.10	-2.10	Pass
HE40	MCS0	2	151	5755	Full	17.50	17.80	20.66	30.00	30.00	-2.10	-2.10	Pass
HE40	MCS0	2	151	5755	242/61	16.30	16.60	19.46	30.00	30.00	-2.10	-2.10	Pass
HE40	MCS0	2	159	5795	Full	17.70	18.00	20.86	30.00	30.00	-2.10	-2.10	Pass
HE40	MCS0	2	159	5795	242/62	16.10	16.50	19.31	30.00	30.00	-2.10	-2.10	Pass
HE80	MCS0	2	155	5775	Full	16.40	16.80	19.61	30.00	30.00	-2.10	-2.10	Pass
HE80	MCS0	2	155	5775	484/65	15.20	15.40	18.31	30.00	30.00	-2.10	-2.10	Pass
HE80	MCS0	2	155	5775	484/66	14.40	15.00	17.72	30.00	30.00	-2.10	-2.10	Pass

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

Band IV MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 11	Ant 6	Ant 11	Ant 6	SUM	Ant 11	Ant 6	Ant 11	Ant 6	
HE20	MCS0	2	149	5745	Full	2.22	2.22	6.03	6.72	9.73	30.00	30.00	0.28	0.28	Pass
HE20	MCS0	2	149	5745	26/0	2.22	2.22	5.67	6.24	9.25	30.00	30.00	0.28	0.28	Pass
HE20	MCS0	2	149	5745	52/37	2.22	2.22	6.01	6.41	9.42	30.00	30.00	0.28	0.28	Pass
HE20	MCS0	2	149	5745	106/53	2.22	2.22	5.92	6.50	9.51	30.00	30.00	0.28	0.28	Pass
HE20	MCS0	2	157	5785	Full	2.22	2.22	6.56	7.03	10.04	30.00	30.00	0.28	0.28	Pass
HE20	MCS0	2	165	5825	Full	2.22	2.22	6.90	6.78	9.91	30.00	30.00	0.28	0.28	Pass
HE20	MCS0	2	165	5825	26/8	2.22	2.22	6.75	6.70	9.76	30.00	30.00	0.28	0.28	Pass
HE20	MCS0	2	165	5825	52/40	2.22	2.22	6.68	6.77	9.78	30.00	30.00	0.28	0.28	Pass
HE20	MCS0	2	165	5825	106/54	2.22	2.22	6.45	6.61	9.62	30.00	30.00	0.28	0.28	Pass
HE40	MCS0	2	151	5755	Full	2.22	2.22	2.55	3.14	6.15	30.00	30.00	0.28	0.28	Pass
HE40	MCS0	2	151	5755	242/61	2.22	2.22	2.41	2.66	5.67	30.00	30.00	0.28	0.28	Pass
HE40	MCS0	2	159	5795	Full	2.22	2.22	2.66	3.03	6.04	30.00	30.00	0.28	0.28	Pass
HE40	MCS0	2	159	5795	242/62	2.22	2.22	2.29	2.62	5.63	30.00	30.00	0.28	0.28	Pass
HE80	MCS0	2	155	5775	Full	2.22	2.22	-1.39	-0.86	2.15	30.00	30.00	0.28	0.28	Pass
HE80	MCS0	2	155	5775	484/65	2.22	2.22	-1.74	-1.20	1.81	30.00	30.00	0.28	0.28	Pass
HE80	MCS0	2	155	5775	484/66	2.22	2.22	-1.66	-1.24	1.77	30.00	30.00	0.28	0.28	Pass

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



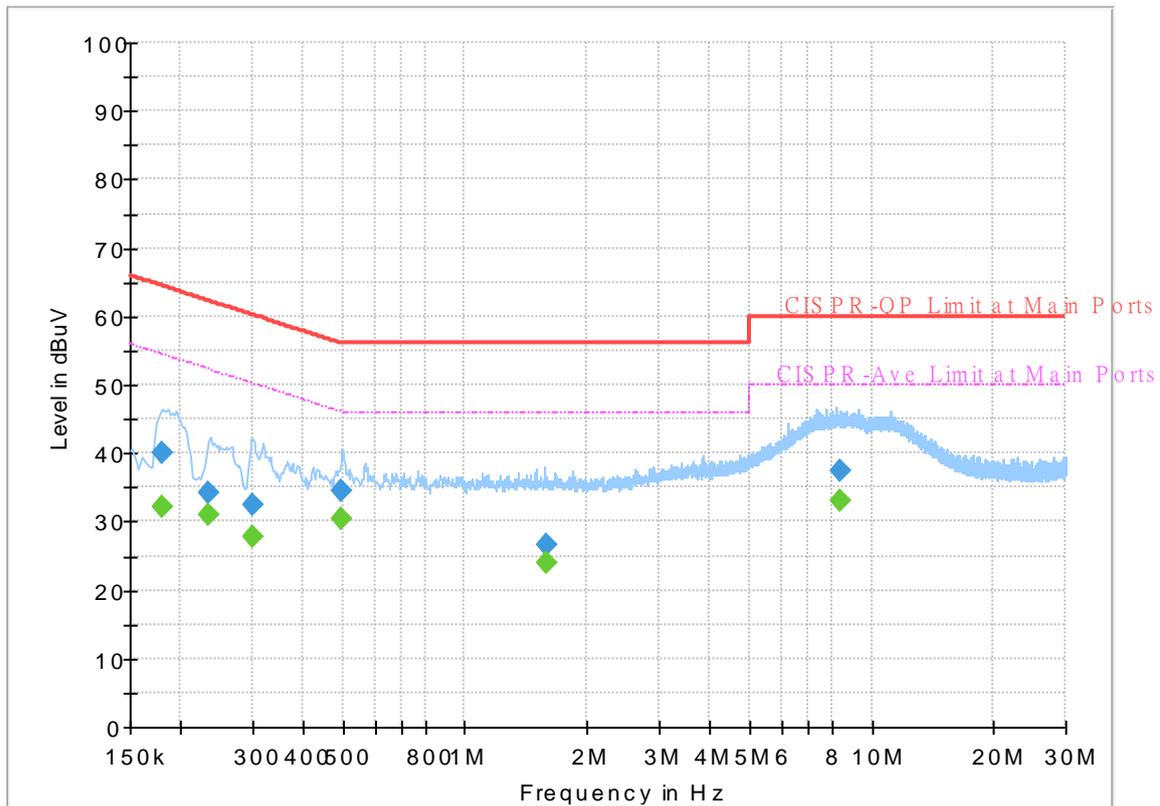
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26°C
		Relative Humidity :	40~50%

## EUT Information

Report NO : 110409  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



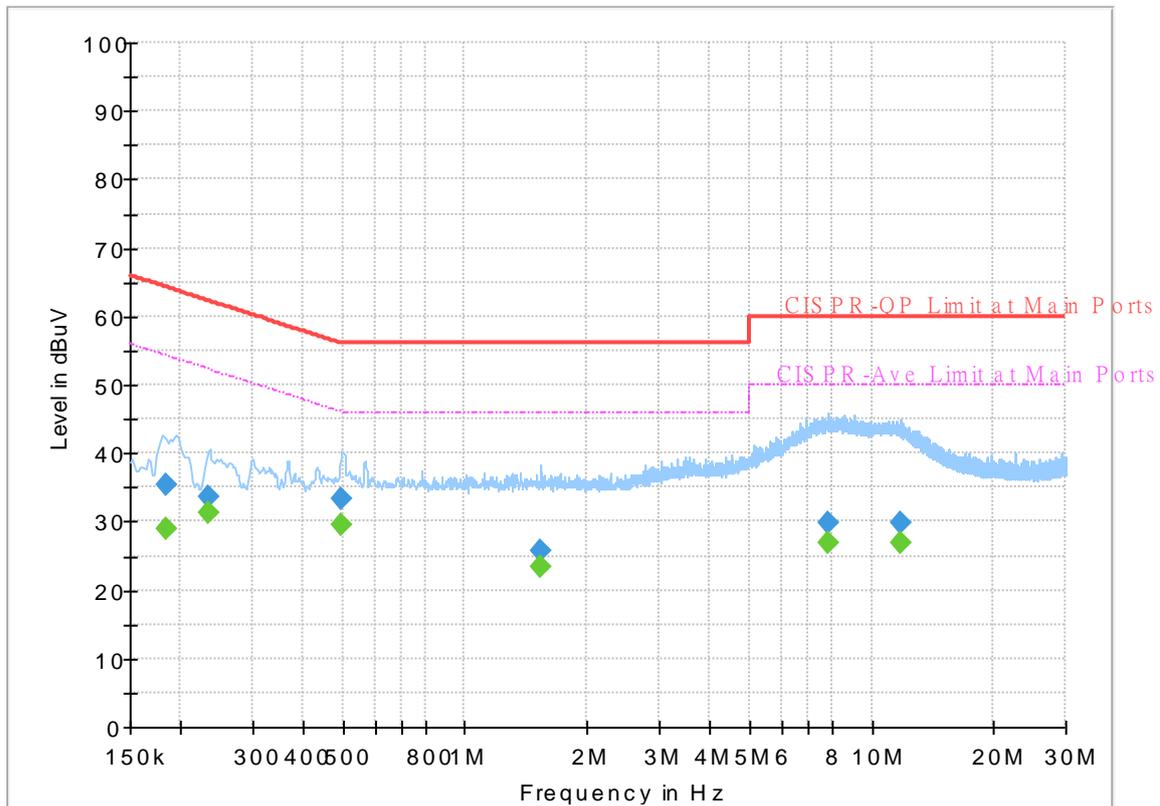
## Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.180870	---	32.12	54.45	22.33	L1	OFF	19.7
0.180870	40.14	---	64.45	24.31	L1	OFF	19.7
0.233700	---	31.03	52.32	21.29	L1	OFF	19.7
0.233700	34.20	---	62.32	28.12	L1	OFF	19.7
0.300300	---	27.81	50.24	22.43	L1	OFF	19.7
0.300300	32.47	---	60.24	27.77	L1	OFF	19.7
0.498570	---	30.43	46.02	15.59	L1	OFF	19.9
0.498570	34.38	---	56.02	21.64	L1	OFF	19.9
1.590000	---	24.01	46.00	21.99	L1	OFF	20.2
1.590000	26.55	---	56.00	29.45	L1	OFF	20.2
8.371410	---	33.03	50.00	16.97	L1	OFF	20.2
8.371410	37.36	---	60.00	22.64	L1	OFF	20.2

## EUT Information

Report NO : 110409  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.183750	---	28.97	54.31	25.34	N	OFF	19.7
0.183750	35.37	---	64.31	28.94	N	OFF	19.7
0.234060	---	31.24	52.30	21.06	N	OFF	19.7
0.234060	33.72	---	62.30	28.58	N	OFF	19.7
0.498750	---	29.60	46.02	16.42	N	OFF	19.9
0.498750	33.28	---	56.02	22.74	N	OFF	19.9
1.533750	---	23.41	46.00	22.59	N	OFF	20.3
1.533750	25.66	---	56.00	30.34	N	OFF	20.3
7.823400	---	26.79	50.00	23.21	N	OFF	20.2
7.823400	29.86	---	60.00	30.14	N	OFF	20.2
11.833440	---	27.02	50.00	22.98	N	OFF	20.3
11.833440	29.76	---	60.00	30.24	N	OFF	20.3



### Appendix C. Radiated Spurious Emission

Test Engineer :	Karl Hou, Caster Liao and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

**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		5604	54.36	-13.84	68.2	38.8	31.69	13.64	29.77	102	119	P	H	
		5665	54.46	-24.87	79.33	38.92	31.63	13.7	29.79	102	119	P	H	
		5718.6	66.01	-44.4	110.41	50.26	31.81	13.75	29.81	102	119	P	H	
		5723.8	69.36	-50.1	119.46	53.59	31.84	13.75	29.82	102	119	P	H	
	*	5745	113.17	-	-	97.25	31.97	13.77	29.82	102	119	P	H	
	*	5745	105.69	-	-	89.77	31.97	13.77	29.82	102	119	A	H	
														H
														H
			5617.8	53.75	-14.45	68.2	38.2	31.66	13.66	29.77	395	21	P	V
			5658.2	53.86	-20.43	74.29	38.34	31.62	13.69	29.79	395	21	P	V
			5717.8	60.29	-49.89	110.18	44.54	31.81	13.75	29.81	395	21	P	V
			5722.4	62.42	-53.85	116.27	46.65	31.83	13.75	29.81	395	21	P	V
	*		5745	110.3	-	-	94.38	31.97	13.77	29.82	395	21	P	V
	*		5745	102.79	-	-	86.87	31.97	13.77	29.82	395	21	A	V
														V
														V



WIFI Ant. 11+6	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 )
		5621.8	55.36	-12.84	68.2	39.82	31.66	13.66	29.78	100	119	P	H
		5665.2	53.76	-25.72	79.48	38.22	31.63	13.7	29.79	100	119	P	H
		5716.8	53.87	-56.04	109.91	38.13	31.8	13.75	29.81	100	119	P	H
		5720.8	54.15	-58.47	112.62	38.39	31.82	13.75	29.81	100	119	P	H
	*	5785	112.47	-	-	96.5	32	13.81	29.84	100	119	P	H
	*	5785	105.06	-	-	89.09	32	13.81	29.84	100	119	A	H
		5855	53.82	-56.98	110.8	37.76	32.11	13.81	29.86	100	119	P	H
		5858	54.51	-55.45	109.96	38.45	32.12	13.81	29.87	100	119	P	H
		5900.2	54.37	-32.14	86.51	38.24	32.2	13.81	29.88	100	119	P	H
		5938.4	54.44	-13.76	68.2	38.25	32.28	13.81	29.9	100	119	P	H
													H
													H
802.11a													
CH 157													
5785MHz		5613.2	54.43	-13.77	68.2	38.88	31.67	13.65	29.77	392	23	P	V
		5653	53.37	-17.06	70.43	37.86	31.61	13.69	29.79	392	23	P	V
		5705	54.12	-52.48	106.6	38.47	31.73	13.73	29.81	392	23	P	V
		5720	53.71	-57.09	110.8	37.95	31.82	13.75	29.81	392	23	P	V
	*	5785	109.96	-	-	93.99	32	13.81	29.84	392	23	P	V
	*	5785	101.95	-	-	85.98	32	13.81	29.84	392	23	A	V
		5854	55.27	-57.81	113.08	39.21	32.11	13.81	29.86	392	23	P	V
		5858.2	54.07	-55.83	109.9	38.01	32.12	13.81	29.87	392	23	P	V
		5920	54.07	-17.82	71.89	37.91	32.24	13.81	29.89	392	23	P	V
		5945	54.33	-13.87	68.2	38.13	32.29	13.81	29.9	392	23	P	V
													V
													V



WIFI Ant. 11+6	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	*	5825	112.14	-	-	96.12	32.05	13.82	29.85	100	119	P	H	
	*	5825	104.64	-	-	88.62	32.05	13.82	29.85	100	119	A	H	
		5850.8	61.51	-58.87	120.38	45.46	32.1	13.81	29.86	100	119	P	H	
		5855.6	56.3	-54.33	110.63	40.25	32.11	13.81	29.87	100	119	P	H	
		5896.8	54.58	-34.45	89.03	38.46	32.19	13.81	29.88	100	119	P	H	
		5928.6	54.18	-14.02	68.2	38	32.26	13.81	29.89	100	119	P	H	
														H
														H
	*	5825	109.01	-	-	92.99	32.05	13.82	29.85	385	26	P	V	
	*	5825	101.39	-	-	85.37	32.05	13.82	29.85	385	26	A	V	
		5853	59.92	-55.44	115.36	43.86	32.11	13.81	29.86	385	26	P	V	
		5861.4	54.64	-54.37	109.01	38.58	32.12	13.81	29.87	385	26	P	V	
		5885.4	54.66	-42.82	97.48	38.56	32.17	13.81	29.88	385	26	P	V	
		5936.4	55.05	-13.15	68.2	38.87	32.27	13.81	29.9	385	26	P	V	
														V
														V
														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 802.11a (Harmonic @ 3m)**

WIFI Ant. 11+6	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	48.24	-25.76	74	43.73	39.91	20.11	55.51	100	0	P	H	
		17235	51.16	-17.04	68.2	41.83	40.9	25.16	56.73	100	0	P	H	
			11490	48.65	-25.35	74	44.14	39.91	20.11	55.51	100	0	P	V
			17235	50.65	-17.55	68.2	41.32	40.9	25.16	56.73	100	0	P	V
802.11a CH 157 5785MHz		11570	48.39	-25.61	74	43.89	39.76	20.18	55.44	100	0	P	H	
		17355	50.16	-18.04	68.2	40.25	41.6	25.21	56.9	100	0	P	H	
			11570	48.97	-25.03	74	44.47	39.76	20.18	55.44	100	0	P	V
			17355	50.89	-17.31	68.2	40.98	41.6	25.21	56.9	100	0	P	V
802.11a CH 165 5825MHz		11650	48.92	-25.08	74	44.52	39.55	20.23	55.38	100	0	P	H	
		17475	50.65	-17.55	68.2	40.01	42.45	25.25	57.06	100	0	P	H	
			11650	49.11	-24.89	74	44.71	39.55	20.23	55.38	100	0	P	V
			17475	51	-17.2	68.2	40.36	42.45	25.25	57.06	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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

WIFI Ant. 11+6	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		5649.6	55.63	-12.57	68.2	40.14	31.6	13.68	29.79	100	119	P	H	
		5693.4	54.68	-45.65	100.33	39.07	31.69	13.72	29.8	100	119	P	H	
		5720	61.84	-48.96	110.8	46.08	31.82	13.75	29.81	100	119	P	H	
		5725	67.02	-55.18	122.2	51.24	31.85	13.75	29.82	100	119	P	H	
	*	5745	113.85	-	-	97.93	31.97	13.77	29.82	100	119	P	H	
	*	5745	105.25	-	-	89.33	31.97	13.77	29.82	100	119	A	H	
														H
														H
			5625.6	53.46	-14.74	68.2	37.93	31.65	13.66	29.78	400	62	P	V
			5693.2	53.93	-46.26	100.19	38.32	31.69	13.72	29.8	400	62	P	V
			5717.6	55.83	-54.3	110.13	40.08	31.81	13.75	29.81	400	62	P	V
			5724.8	63.36	-58.38	121.74	47.58	31.85	13.75	29.82	400	62	P	V
		*	5745	110.28	-	-	94.36	31.97	13.77	29.82	400	62	P	V
		*	5745	101.69	-	-	85.77	31.97	13.77	29.82	400	62	A	V
													V	
													V	



WIFI Ant. 11+6	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 )
		5637	54.37	-13.83	68.2	38.85	31.63	13.67	29.78	100	118	P	H
		5657	54.21	-19.19	73.4	38.7	31.61	13.69	29.79	100	118	P	H
		5710	53.46	-54.54	108	37.77	31.76	13.74	29.81	100	118	P	H
		5722.2	53.23	-62.59	115.82	37.46	31.83	13.75	29.81	100	118	P	H
	*	5785	112.73	-	-	96.76	32	13.81	29.84	100	118	P	H
	*	5785	104.15	-	-	88.18	32	13.81	29.84	100	118	A	H
		5850.2	53.12	-68.62	121.74	37.07	32.1	13.81	29.86	100	118	P	H
		5864.4	54.17	-54	108.17	38.1	32.13	13.81	29.87	100	118	P	H
		5892	54.35	-38.23	92.58	38.24	32.18	13.81	29.88	100	118	P	H
		5944.2	54.58	-13.62	68.2	38.38	32.29	13.81	29.9	100	118	P	H
802.11n													H
HT20													H
CH 157		5608	53.7	-14.5	68.2	38.14	31.68	13.65	29.77	395	63	P	V
5785MHz		5699.6	54.37	-50.54	104.91	38.75	31.7	13.73	29.81	395	63	P	V
		5700.8	54.09	-51.33	105.42	38.47	31.7	13.73	29.81	395	63	P	V
		5721	53.07	-60.01	113.08	37.3	31.83	13.75	29.81	395	63	P	V
	*	5785	110.13	-	-	94.16	32	13.81	29.84	395	63	P	V
	*	5785	101.19	-	-	85.22	32	13.81	29.84	395	63	A	V
		5854	53.26	-59.82	113.08	37.2	32.11	13.81	29.86	395	63	P	V
		5867.2	54.35	-53.03	107.38	38.28	32.13	13.81	29.87	395	63	P	V
		5885.4	54.13	-43.35	97.48	38.03	32.17	13.81	29.88	395	63	P	V
		5944.4	54.1	-14.1	68.2	37.9	32.29	13.81	29.9	395	63	P	V
													V
													V



WIFI Ant. 11+6	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 165 5825MHz	*	5825	112.23	-	-	96.21	32.05	13.82	29.85	100	118	P	H	
	*	5825	104.26	-	-	88.24	32.05	13.82	29.85	100	118	A	H	
		5852.4	60.64	-56.09	116.73	44.59	32.1	13.81	29.86	100	118	P	H	
		5855.2	56.26	-54.48	110.74	40.2	32.11	13.81	29.86	100	118	P	H	
		5915.4	54.76	-20.52	75.28	38.61	32.23	13.81	29.89	100	118	P	H	
		5938.4	54.36	-13.84	68.2	38.17	32.28	13.81	29.9	100	118	P	H	
														H
														H
	*	5825	108.5	-	-	92.48	32.05	13.82	29.85	346	67	P	V	
	*	5825	99.82	-	-	83.8	32.05	13.82	29.85	346	67	A	V	
		5852.2	55.83	-61.35	117.18	39.78	32.1	13.81	29.86	346	67	P	V	
		5855	55.51	-55.29	110.8	39.45	32.11	13.81	29.86	346	67	P	V	
		5878.6	55.36	-47.17	102.53	39.26	32.16	13.81	29.87	346	67	P	V	
		5929	54.7	-13.5	68.2	38.52	32.26	13.81	29.89	346	67	P	V	
														V
													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. 11+6	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	49.96	-24.04	74	45.45	39.91	20.11	55.51	100	0	P	H	
		17235	50.41	-17.79	68.2	41.08	40.9	25.16	56.73	100	0	P	H	
			11490	48.64	-25.36	74	44.13	39.91	20.11	55.51	100	0	P	V
			17235	50.31	-17.89	68.2	40.98	40.9	25.16	56.73	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	47.97	-26.03	74	43.47	39.76	20.18	55.44	100	0	P	H	
		17355	50.79	-17.41	68.2	40.88	41.6	25.21	56.9	100	0	P	H	
			11570	48.81	-25.19	74	44.31	39.76	20.18	55.44	100	0	P	V
			17355	50.28	-17.92	68.2	40.37	41.6	25.21	56.9	100	0	P	V
802.11n HT20 CH 165 5825MHz		11650	48.46	-25.54	74	44.06	39.55	20.23	55.38	100	0	P	H	
		17475	50.32	-17.88	68.2	39.68	42.45	25.25	57.06	100	0	P	H	
			11650	48.87	-25.13	74	44.47	39.55	20.23	55.38	100	0	P	V
			17475	50.61	-17.59	68.2	39.97	42.45	25.25	57.06	100	0	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\_Full (Band Edge @ 3m)**

WIFI Ant. 11+6	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 )
		5637	54.44	-13.76	68.2	38.92	31.63	13.67	29.78	100	118	P	H
		5685	55.63	-38.5	94.13	40.04	31.67	13.72	29.8	100	118	P	H
		5720	60.37	-50.43	110.8	44.61	31.82	13.75	29.81	100	118	P	H
		5725	64.31	-57.89	122.2	48.53	31.85	13.75	29.82	100	118	P	H
	*	5745	112.71	-	-	96.79	31.97	13.77	29.82	100	118	P	H
	*	5745	102.48	-	-	86.56	31.97	13.77	29.82	100	118	A	H
												P	H
												P	H
												P	H
												P	H
												P	H
												A	H
<b>802.11ax</b>													
<b>HE20 Full</b>													
<b>CH 149</b>		5648.4	54.07	-14.13	68.2	38.58	31.6	13.68	29.79	400	62	P	V
<b>5745MHz</b>		5699.8	54.36	-50.69	105.05	38.74	31.7	13.73	29.81	400	62	P	V
		5716.8	55.41	-54.5	109.91	39.67	31.8	13.75	29.81	400	62	P	V
		5724	61.97	-57.95	119.92	46.2	31.84	13.75	29.82	400	62	P	V
	*	5745	108.84	-	-	92.92	31.97	13.77	29.82	400	62	P	V
	*	5745	98.36	-	-	82.44	31.97	13.77	29.82	400	62	A	V
												P	V
												P	V
												P	V
												P	V
												P	V
												A	V



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

WIFI Ant. 11+6	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 )
		5603.6	54.4	-13.8	68.2	38.84	31.69	13.64	29.77	100	118	P	H
		5689.2	54.13	-43.11	97.24	38.53	31.68	13.72	29.8	100	118	P	H
		5707.6	54.44	-52.89	107.33	38.76	31.75	13.74	29.81	100	118	P	H
		5725	52.25	-69.95	122.2	36.47	31.85	13.75	29.82	100	118	P	H
	*	5785	112.9	-	-	96.93	32	13.81	29.84	100	118	P	H
	*	5785	102.03	-	-	86.06	32	13.81	29.84	100	118	A	H
		5850.6	53.42	-67.41	120.83	37.37	32.1	13.81	29.86	100	118	P	H
		5873.4	53.69	-51.96	105.65	37.6	32.15	13.81	29.87	100	118	P	H
		5898.2	54.42	-33.57	87.99	38.29	32.2	13.81	29.88	100	118	P	H
		5927.8	53.85	-14.35	68.2	37.67	32.26	13.81	29.89	100	118	P	H
<b>802.11ax</b>													H
<b>HE20 Full</b>													H
<b>CH 157</b>		5600.8	54.5	-13.7	68.2	38.93	31.7	13.64	29.77	392	63	P	V
<b>5785MHz</b>		5654.4	53.84	-17.63	71.47	38.33	31.61	13.69	29.79	392	63	P	V
		5705.6	54.04	-52.73	106.77	38.38	31.73	13.74	29.81	392	63	P	V
		5722.2	53.47	-62.35	115.82	37.7	31.83	13.75	29.81	392	63	P	V
	*	5785	108.51	-	-	92.54	32	13.81	29.84	392	63	P	V
	*	5785	98.08	-	-	82.11	32	13.81	29.84	392	63	A	V
		5854.8	53.43	-57.83	111.26	37.37	32.11	13.81	29.86	392	63	P	V
		5861.6	53.83	-55.12	108.95	37.77	32.12	13.81	29.87	392	63	P	V
		5914.8	54.42	-21.3	75.72	38.27	32.23	13.81	29.89	392	63	P	V
		5931.6	53.84	-14.36	68.2	37.66	32.26	13.81	29.89	392	63	P	V
													V
													V



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

WIFI Ant. 11+6	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 )
	*	5825	112.23	-	-	96.21	32.05	13.82	29.85	100	118	P	H
	*	5825	101.66	-	-	85.64	32.05	13.82	29.85	100	118	A	H
		5850	59.99	-62.21	122.2	43.94	32.1	13.81	29.86	100	118	P	H
		5856	56.78	-53.74	110.52	40.73	32.11	13.81	29.87	100	118	P	H
		5894	54.87	-36.23	91.1	38.75	32.19	13.81	29.88	100	118	P	H
		5935.2	53.37	-14.83	68.2	37.19	32.27	13.81	29.9	100	118	P	H
												P	H
												P	H
												P	H
												P	H
<b>802.11ax</b>													H
<b>HE20 Full</b>													H
<b>CH 165</b>	*	5825	107.66	-	-	91.64	32.05	13.82	29.85	387	62	P	V
<b>5825MHz</b>	*	5825	96.99	-	-	80.97	32.05	13.82	29.85	387	62	A	V
		5851.2	54.58	-64.88	119.46	38.53	32.1	13.81	29.86	387	62	P	V
		5873.6	53.9	-51.69	105.59	37.81	32.15	13.81	29.87	387	62	P	V
		5889	53.87	-40.94	94.81	37.76	32.18	13.81	29.88	387	62	P	V
		5925	53.21	-14.99	68.2	37.04	32.25	13.81	29.89	387	62	P	V
													V
													V
													V
													V
													V
													V
													V
													V



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

WIFI Ant. 11+6	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		5601.6	54.53	-13.67	68.2	38.96	31.7	13.64	29.77	100	119	P	H	
		5671	55.84	-27.94	83.78	40.29	31.64	13.7	29.79	100	119	P	H	
		5719.8	59.88	-50.86	110.74	44.12	31.82	13.75	29.81	100	119	P	H	
		5724.8	66	-55.74	121.74	50.22	31.85	13.75	29.82	100	119	P	H	
	*	5745	116.09	-	-	100.17	31.97	13.77	29.82	100	119	P	H	
	*	5745	105.78	-	-	89.86	31.97	13.77	29.82	100	119	A	H	
														H
														H
														V
			5604	54.66	-13.54	68.2	39.1	31.69	13.64	29.77	400	55	P	V
			5666.2	54.6	-25.62	80.22	39.06	31.63	13.7	29.79	400	55	P	V
			5715.2	55.34	-54.12	109.46	39.62	31.79	13.74	29.81	400	55	P	V
			5725	62.81	-59.39	122.2	47.03	31.85	13.75	29.82	400	55	P	V
		*	5745	112.41	-	-	96.49	31.97	13.77	29.82	400	55	P	V
	*	5745	102.05	-	-	86.13	31.97	13.77	29.82	400	55	A	V	
													V	



WIFI Ant. 11+6	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 106/54 CH 165 5825MHz	*	5825	114.26	-	-	98.24	32.05	13.82	29.85	100	118	P	H	
	*	5825	104.88	-	-	88.86	32.05	13.82	29.85	100	118	A	H	
		5850.2	64.71	-57.03	121.74	48.66	32.1	13.81	29.86	100	118	P	H	
		5859.6	56.01	-53.5	109.51	39.95	32.12	13.81	29.87	100	118	P	H	
		5899.6	55.51	-31.45	86.96	39.38	32.2	13.81	29.88	100	118	P	H	
		5925	54.46	-13.74	68.2	38.29	32.25	13.81	29.89	100	118	P	H	
														H
														H
	*	5825	110.39	-	-	94.37	32.05	13.82	29.85	349	60	P	V	
	*	5825	100.5	-	-	84.48	32.05	13.82	29.85	349	60	A	V	
		5850.4	60.97	-60.32	121.29	44.92	32.1	13.81	29.86	349	60	P	V	
		5857.6	54.41	-55.66	110.07	38.35	32.12	13.81	29.87	349	60	P	V	
		5884.4	54.8	-43.42	98.22	38.7	32.17	13.81	29.88	349	60	P	V	
		5925.8	56.09	-12.11	68.2	39.92	32.25	13.81	29.89	349	60	P	V	
														V
													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 (Harmonic @ 3m)**

WIFI Ant. 11+6	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		11490	48.92	-25.08	74	44.41	39.91	20.11	55.51	100	0	P	H	
		17235	50.29	-17.91	68.2	40.96	40.9	25.16	56.73	100	0	P	H	
			11490	49.16	-24.84	74	44.65	39.91	20.11	55.51	100	0	P	V
			17235	50.41	-17.79	68.2	41.08	40.9	25.16	56.73	100	0	P	V
802.11ax HE20 Partial 106/54 CH 165 5825MHz		11650	48.71	-25.29	74	44.31	39.55	20.23	55.38	100	0	P	H	
		17475	50.46	-17.74	68.2	39.82	42.45	25.25	57.06	100	0	P	H	
			11650	48.76	-25.24	74	44.36	39.55	20.23	55.38	100	0	P	V
			17475	51.27	-16.93	68.2	40.63	42.45	25.25	57.06	100	0	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\_Full (Band Edge @ 3m)**

WIFI Ant. 11+6	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 )
		5615.4	54.07	-14.13	68.2	38.52	31.67	13.65	29.77	100	119	P	H
		5699.2	55.35	-49.26	104.61	39.73	31.7	13.73	29.81	100	119	P	H
		5719.4	61.04	-49.59	110.63	45.28	31.82	13.75	29.81	100	119	P	H
		5721.8	63.39	-51.51	114.9	47.62	31.83	13.75	29.81	100	119	P	H
	*	5755	109.89	-	-	93.94	32	13.78	29.83	100	119	P	H
	*	5755	99.08	-	-	83.13	32	13.78	29.83	100	119	A	H
		5854	53.73	-59.35	113.08	37.67	32.11	13.81	29.86	100	119	P	H
		5862.8	54.27	-54.34	108.61	38.2	32.13	13.81	29.87	100	119	P	H
		5921.2	54.45	-16.55	71	38.29	32.24	13.81	29.89	100	119	P	H
		5939.2	53.58	-14.62	68.2	37.39	32.28	13.81	29.9	100	119	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 151</b>		5622.8	53.89	-14.31	68.2	38.36	31.65	13.66	29.78	400	25	P	V
<b>5755MHz</b>		5674.4	53.96	-32.34	86.3	38.4	31.65	13.71	29.8	400	25	P	V
		5709.8	56.88	-51.07	107.95	41.19	31.76	13.74	29.81	400	25	P	V
		5724.2	56.87	-63.51	120.38	41.09	31.85	13.75	29.82	400	25	P	V
	*	5755	104.87	-	-	88.92	32	13.78	29.83	400	25	P	V
	*	5755	94.65	-	-	78.7	32	13.78	29.83	400	25	A	V
		5854	52.98	-60.1	113.08	36.92	32.11	13.81	29.86	400	25	P	V
		5871.6	53.86	-52.29	106.15	37.78	32.14	13.81	29.87	400	25	P	V
		5909	54.35	-25.66	80.01	38.21	32.22	13.81	29.89	400	25	P	V
		5947.2	53.66	-14.54	68.2	37.46	32.29	13.81	29.9	400	25	P	V
													V
													V



WIFI Ant. 11+6	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 )
		5633.4	53.53	-14.67	68.2	38.01	31.63	13.67	29.78	100	119	P	H
		5699	54.07	-50.39	104.46	38.45	31.7	13.73	29.81	100	119	P	H
		5715.6	53.62	-55.95	109.57	37.9	31.79	13.74	29.81	100	119	P	H
		5721.2	54.71	-58.83	113.54	38.94	31.83	13.75	29.81	100	119	P	H
	*	5795	108.89	-	-	92.91	32	13.82	29.84	100	119	P	H
	*	5795	98.47	-	-	82.49	32	13.82	29.84	100	119	A	H
		5851.4	55.27	-63.74	119.01	39.22	32.1	13.81	29.86	100	119	P	H
		5865.2	54.97	-52.97	107.94	38.9	32.13	13.81	29.87	100	119	P	H
		5896	54.29	-35.33	89.62	38.17	32.19	13.81	29.88	100	119	P	H
		5936.2	55.47	-12.73	68.2	39.29	32.27	13.81	29.9	100	119	P	H
802.11ax													H
HE40 Full													H
CH 159		5640.2	53.87	-14.33	68.2	38.35	31.62	13.68	29.78	372	26	P	V
5795MHz		5694.2	53.48	-47.44	100.92	37.87	31.69	13.72	29.8	372	26	P	V
		5708.6	54.01	-53.6	107.61	38.33	31.75	13.74	29.81	372	26	P	V
		5723.2	53.81	-64.29	118.1	38.03	31.84	13.75	29.81	372	26	P	V
	*	5795	104.88	-	-	88.9	32	13.82	29.84	372	26	P	V
	*	5795	94.23	-	-	78.25	32	13.82	29.84	372	26	A	V
		5855	53.55	-57.25	110.8	37.49	32.11	13.81	29.86	372	26	P	V
		5872.2	54.13	-51.85	105.98	38.05	32.14	13.81	29.87	372	26	P	V
		5903.6	54.78	-29.22	84	38.64	32.21	13.81	29.88	372	26	P	V
		5926.8	54.09	-14.11	68.2	37.92	32.25	13.81	29.89	372	26	P	V
													V
													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 (Harmonic @ 3m)**

WIFI Ant. 11+6	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 )	
<b>802.11ax HE40 Full CH 151 5755MHz</b>		11510	48.61	-25.39	74	44.09	39.88	20.13	55.49	100	0	P	H	
		17265	50.81	-17.39	68.2	41.42	40.99	25.17	56.77	100	0	P	H	
			11510	48.29	-25.71	74	43.77	39.88	20.13	55.49	100	0	P	V
			17265	50.46	-17.74	68.2	41.07	40.99	25.17	56.77	100	0	P	V
<b>802.11ax HE40 Full CH 159 5795MHz</b>		11590	48.91	-25.09	74	44.43	39.72	20.19	55.43	100	0	P	H	
		17385	50.8	-17.4	68.2	40.66	41.86	25.22	56.94	100	0	P	H	
			11590	48.2	-25.8	74	43.72	39.72	20.19	55.43	100	0	P	V
			17385	50.51	-17.69	68.2	40.37	41.86	25.22	56.94	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 HE40\_Partial 242 (Band Edge @ 3m)**

WIFI Ant. 11+6	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 )
		5649.2	54.39	-13.81	68.2	38.9	31.6	13.68	29.79	100	119	P	H
		5698.8	59.76	-44.56	104.32	44.14	31.7	13.73	29.81	100	119	P	H
		5720	67.02	-43.78	110.8	51.26	31.82	13.75	29.81	100	119	P	H
		5724.2	68.81	-51.57	120.38	53.03	31.85	13.75	29.82	100	119	P	H
	*	5755	111.21	-	-	95.26	32	13.78	29.83	100	119	P	H
	*	5755	101.49	-	-	85.54	32	13.78	29.83	100	119	A	H
		5850.2	53.98	-67.76	121.74	37.93	32.1	13.81	29.86	100	119	P	H
		5874.2	55.24	-50.18	105.42	39.15	32.15	13.81	29.87	100	119	P	H
		5892.4	55.81	-36.48	92.29	39.7	32.18	13.81	29.88	100	119	P	H
		5927.6	54.94	-13.26	68.2	38.76	32.26	13.81	29.89	100	119	P	H
<b>802.11ax</b>													H
<b>HE40</b>													H
<b>Partial</b>													H
<b>262/61</b>		5606.8	54.32	-13.88	68.2	38.75	31.69	13.65	29.77	398	63	P	V
<b>CH 151</b>		5697.6	54.77	-48.66	103.43	39.15	31.7	13.73	29.81	398	63	P	V
<b>5755MHz</b>		5719	59.21	-51.31	110.52	43.46	31.81	13.75	29.81	398	63	P	V
		5721	62.38	-50.7	113.08	46.61	31.83	13.75	29.81	398	63	P	V
	*	5755	109.39	-	-	93.44	32	13.78	29.83	398	63	P	V
	*	5755	98.45	-	-	82.5	32	13.78	29.83	398	63	A	V
		5853.4	54.33	-60.12	114.45	38.27	32.11	13.81	29.86	398	63	P	V
		5862.4	54.67	-54.06	108.73	38.61	32.12	13.81	29.87	398	63	P	V
		5878.2	55.52	-47.3	102.82	39.42	32.16	13.81	29.87	398	63	P	V
		5933.2	54.28	-13.92	68.2	38.09	32.27	13.81	29.89	398	63	P	V
													V
													V



WIFI Ant. 11+6	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 )
		5623	54.61	-13.59	68.2	39.08	31.65	13.66	29.78	100	119	P	H
		5681	54.38	-36.8	91.18	38.81	31.66	13.71	29.8	100	119	P	H
		5718.6	54.82	-55.59	110.41	39.07	31.81	13.75	29.81	100	119	P	H
		5723	54.48	-63.16	117.64	38.7	31.84	13.75	29.81	100	119	P	H
	*	5795	111.71	-	-	95.73	32	13.82	29.84	100	119	P	H
	*	5795	101.07	-	-	85.09	32	13.82	29.84	100	119	A	H
		5850	62.2	-60	122.2	46.15	32.1	13.81	29.86	100	119	P	H
		5855.8	58.79	-51.79	110.58	42.74	32.11	13.81	29.87	100	119	P	H
		5879.8	55.7	-45.93	101.63	39.6	32.16	13.81	29.87	100	119	P	H
		5930.4	54.61	-13.59	68.2	38.43	32.26	13.81	29.89	100	119	P	H
<b>802.11ax</b>													H
<b>HE40</b>													H
<b>Partial</b>													H
<b>262/62</b>		5648.6	55.81	-12.39	68.2	40.32	31.6	13.68	29.79	351	64	P	V
<b>CH 159</b>		5693.2	54.28	-45.91	100.19	38.67	31.69	13.72	29.8	351	64	P	V
<b>5795MHz</b>		5714.6	55.03	-54.26	109.29	39.31	31.79	13.74	29.81	351	64	P	V
		5721.4	53.89	-60.1	113.99	38.12	31.83	13.75	29.81	351	64	P	V
	*	5795	107.73	-	-	91.75	32	13.82	29.84	351	64	P	V
	*	5795	97.39	-	-	81.41	32	13.82	29.84	351	64	A	V
		5850	57.81	-64.39	122.2	41.76	32.1	13.81	29.86	351	64	P	V
		5855.4	56.33	-54.36	110.69	40.28	32.11	13.81	29.87	351	64	P	V
		5897.4	55.47	-33.12	88.59	39.35	32.19	13.81	29.88	351	64	P	V
		5929.4	55.24	-12.96	68.2	39.06	32.26	13.81	29.89	351	64	P	V
													V
													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\_Partial 242 (Harmonic @ 3m)**

WIFI Ant. 11+6	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 262/61 CH 151 5755MHz		11510	49.21	-24.79	74	44.69	39.88	20.13	55.49	100	0	P	H	
		17265	50.63	-17.57	68.2	41.24	40.99	25.17	56.77	100	0	P	H	
			11510	49.03	-24.97	74	44.51	39.88	20.13	55.49	100	0	P	V
			17265	50.26	-17.94	68.2	40.87	40.99	25.17	56.77	100	0	P	V
802.11ax HE40 Partial 262/62 CH 159 5795MHz		11590	48.87	-25.13	74	44.39	39.72	20.19	55.43	100	0	P	H	
		17385	50.58	-17.62	68.2	40.44	41.86	25.22	56.94	100	0	P	H	
			11590	48.21	-25.79	74	43.73	39.72	20.19	55.43	100	0	P	V
			17385	50.9	-17.3	68.2	40.76	41.86	25.22	56.94	100	0	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 HE80\_Full (Band Edge @ 3m)**

WIFI Ant. 11+6	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 )
		5615.2	53.51	-14.69	68.2	37.96	31.67	13.65	29.77	100	118	P	H
		5691.2	56.17	-42.54	98.71	40.57	31.68	13.72	29.8	100	118	P	H
		5712.6	58.91	-49.82	108.73	43.2	31.78	13.74	29.81	100	118	P	H
		5722.4	57.68	-58.59	116.27	41.91	31.83	13.75	29.81	100	118	P	H
	*	5775	105.66	-	-	89.69	32	13.8	29.83	100	118	P	H
	*	5775	94.55	-	-	78.58	32	13.8	29.83	100	118	A	H
		5851.2	54.66	-64.8	119.46	38.61	32.1	13.81	29.86	100	118	P	H
		5860.8	55.98	-53.19	109.17	39.92	32.12	13.81	29.87	100	118	P	H
		5904.6	55.01	-28.25	83.26	38.87	32.21	13.81	29.88	100	118	P	H
		5946.2	53.85	-14.35	68.2	37.65	32.29	13.81	29.9	100	118	P	H
<b>802.11ax</b>													H
<b>HE80 Full</b>													H
<b>CH 155</b>		5620.8	54.72	-13.48	68.2	39.18	31.66	13.66	29.78	395	64	P	V
<b>5775MHz</b>		5671	55.04	-28.74	83.78	39.49	31.64	13.7	29.79	395	64	P	V
		5713	54.49	-54.35	108.84	38.78	31.78	13.74	29.81	395	64	P	V
		5721.6	54.29	-60.16	114.45	38.52	31.83	13.75	29.81	395	64	P	V
	*	5775	101.78	-	-	85.81	32	13.8	29.83	395	64	P	V
	*	5775	90.77	-	-	74.8	32	13.8	29.83	395	64	A	V
		5851.6	52.68	-65.87	118.55	36.63	32.1	13.81	29.86	395	64	P	V
		5866	54.42	-53.3	107.72	38.35	32.13	13.81	29.87	395	64	P	V
		5876.8	54.09	-49.77	103.86	38	32.15	13.81	29.87	395	64	P	V
		5936	53.98	-14.22	68.2	37.8	32.27	13.81	29.9	395	64	P	V
													V
													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 (Harmonic @ 3m)

WIFI Ant. 11+6	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		11550	48.48	-25.52	74	43.98	39.8	20.16	55.46	100	0	P	H	
		17325	50.98	-17.22	68.2	41.31	41.32	25.2	56.85	100	0	P	H	
			11550	48.35	-25.65	74	43.85	39.8	20.16	55.46	100	0	P	V
			17325	51.09	-17.11	68.2	41.42	41.32	25.2	56.85	100	0	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 HE80\_Partial 484 (Band Edge @ 3m)**

WIFI Ant. 11+6	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 )
		5604.4	54.84	-13.36	68.2	39.28	31.69	13.64	29.77	100	119	P	H
		5696.4	57.63	-44.92	102.55	42.01	31.69	13.73	29.8	100	119	P	H
		5719	64.33	-46.19	110.52	48.58	31.81	13.75	29.81	100	119	P	H
		5724.6	67.47	-53.82	121.29	51.69	31.85	13.75	29.82	100	119	P	H
	*	5775	108.05	-	-	92.08	32	13.8	29.83	100	119	P	H
	*	5775	97.36	-	-	81.39	32	13.8	29.83	100	119	A	H
		5850.2	61.94	-59.8	121.74	45.89	32.1	13.81	29.86	100	119	P	H
		5862.2	57.92	-50.86	108.78	41.86	32.12	13.81	29.87	100	119	P	H
		5877.2	56.83	-46.74	103.57	40.74	32.15	13.81	29.87	100	119	P	H
		5941.4	55	-13.2	68.2	38.81	32.28	13.81	29.9	100	119	P	H
<b>802.11ax</b>													H
<b>HE80</b>													H
<b>Partial</b>													H
<b>484/65</b>		5613.6	54.82	-13.38	68.2	39.27	31.67	13.65	29.77	398	62	P	V
<b>CH 155</b>		5676.2	54.2	-33.43	87.63	38.64	31.65	13.71	29.8	398	62	P	V
<b>5775MHz</b>		5719	57.54	-52.98	110.52	41.79	31.81	13.75	29.81	398	62	P	V
		5725	61.35	-60.85	122.2	45.57	31.85	13.75	29.82	398	62	P	V
	*	5775	105.02	-	-	89.05	32	13.8	29.83	398	62	P	V
	*	5775	93.77	-	-	77.8	32	13.8	29.83	398	62	A	V
		5852.6	54.83	-61.44	116.27	38.77	32.11	13.81	29.86	398	62	P	V
		5872.2	54.63	-51.35	105.98	38.55	32.14	13.81	29.87	398	62	P	V
		5892.8	55.25	-36.74	91.99	39.13	32.19	13.81	29.88	398	62	P	V
		5939.2	55.13	-13.07	68.2	38.94	32.28	13.81	29.9	398	62	P	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 11+6	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		5606.2	54.63	-13.57	68.2	39.06	31.69	13.65	29.77	100	119	P	H	
		5661	58.68	-17.69	76.37	43.16	31.62	13.69	29.79	100	119	P	H	
		5718.6	63.76	-46.65	110.41	48.01	31.81	13.75	29.81	100	119	P	H	
		5724.6	69.06	-52.23	121.29	53.28	31.85	13.75	29.82	100	119	P	H	
	*	5775	106.97	-	-	91	32	13.8	29.83	100	119	P	H	
	*	5775	96.96	-	-	80.99	32	13.8	29.83	100	119	A	H	
		5851.8	61.16	-56.94	118.1	45.11	32.1	13.81	29.86	100	119	P	H	
		5870.6	61.16	-45.27	106.43	45.08	32.14	13.81	29.87	100	119	P	H	
		5909.2	56.39	-23.47	79.86	40.25	32.22	13.81	29.89	100	119	P	H	
		5946.8	55.09	-13.11	68.2	38.89	32.29	13.81	29.9	100	119	P	H	
														H
														H
			5647.8	54.49	-13.71	68.2	39	31.6	13.68	29.79	352	67	P	V
			5676	54.61	-32.87	87.48	39.05	31.65	13.71	29.8	352	67	P	V
			5718.6	59.85	-50.56	110.41	44.1	31.81	13.75	29.81	352	67	P	V
			5724.8	60.18	-61.56	121.74	44.4	31.85	13.75	29.82	352	67	P	V
	*		5775	103.95	-	-	87.98	32	13.8	29.83	352	67	P	V
	*		5775	93.35	-	-	77.38	32	13.8	29.83	352	67	A	V
			5855	54.48	-56.32	110.8	38.42	32.11	13.81	29.86	352	67	P	V
			5856.8	55.12	-55.18	110.3	39.07	32.11	13.81	29.87	352	67	P	V
		5907.8	54.37	-26.52	80.89	38.22	32.22	13.81	29.88	352	67	P	V	
		5941.8	54.84	-13.36	68.2	38.65	32.28	13.81	29.9	352	67	P	V	
													V	
													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 (Harmonic @ 3m)**

WIFI Ant. 11+6	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		11550	49.23	-24.77	74	44.73	39.8	20.16	55.46	100	0	P	H	
		17325	50.89	-17.31	68.2	41.22	41.32	25.2	56.85	100	0	P	H	
			11550	48.57	-25.43	74	44.07	39.8	20.16	55.46	100	0	P	V
			17325	51.06	-17.14	68.2	41.39	41.32	25.2	56.85	100	0	P	V
802.11ax HE80 Partial 484/66 CH 155 5775MHz		11550	48.3	-25.7	74	43.8	39.8	20.16	55.46	100	0	P	H	
		17325	50.41	-17.79	68.2	40.74	41.32	25.2	56.85	100	0	P	H	
			11550	48.62	-25.38	74	44.12	39.8	20.16	55.46	100	0	P	V
			17325	50.34	-17.86	68.2	40.67	41.32	25.2	56.85	100	0	P	V
Remark	1. No other spurious found. 2. 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.		
11+6		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11ax HE20 Full LF		62.98	16.97	-23.03	40	36.64	11.96	1.16	32.79	-	-	P	H	
		77.53	23.13	-16.87	40	41.28	13.25	1.31	32.71	-	-	P	H	
		97.9	25.49	-18.01	43.5	40.7	15.88	1.52	32.61	-	-	P	H	
		184.23	29.28	-14.22	43.5	44.89	15.03	2.22	32.86	-	-	P	H	
		299.66	24.82	-21.18	46	35.16	19.3	2.91	32.55	-	-	P	H	
		730.34	34.53	-11.47	46	34.64	27.78	4.65	32.54	100	0	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			43.58	28.35	-11.65	40	42.91	17.38	0.87	32.81	-	-	P	V
			77.53	29.34	-10.66	40	47.49	13.25	1.31	32.71	100	0	P	V
			185.2	25.5	-18	43.5	41.09	15.04	2.23	32.86	-	-	P	V
			305.48	21.21	-24.79	46	31.5	19.31	2.94	32.54	-	-	P	V
			551.86	27.43	-18.57	46	30.44	25.65	4.01	32.67	-	-	P	V
			740.04	31.15	-14.85	46	30.95	28.1	4.68	32.58	-	-	P	V
														V
													V	
													V	
													V	
													V	
													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.	
11+6		( 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. Radiated Spurious Emission Plots

Test Engineer :	Karl Hou, Caster Liao and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

### Note symbol

-L	Low channel location
-R	High channel location



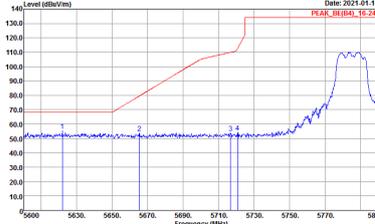
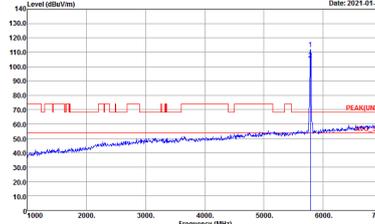
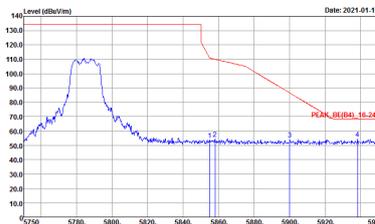
**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH149 5745MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>           Site : 03CH16-1FY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL            Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Project : 110409         </p>	<p>           Site : 03CH16-1FY            Condition : PEAK(LINII) 3m 91200_1522 HORIZONTAL            Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Project : 110409         </p>

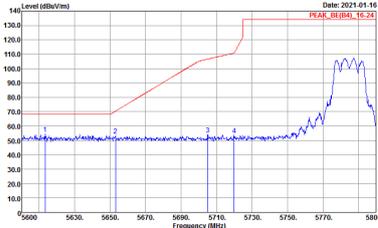
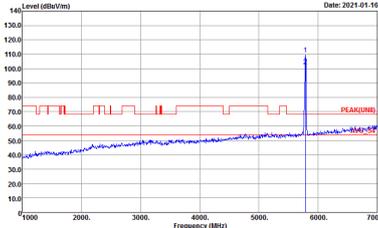
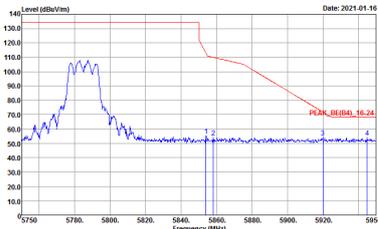


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
11+6	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>

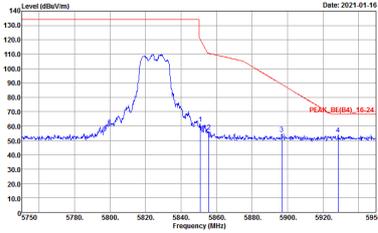
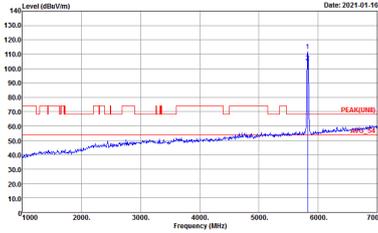


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
11+6	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>

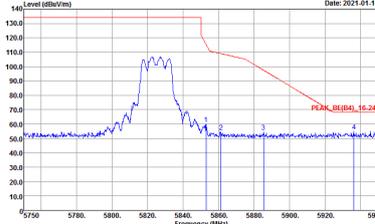
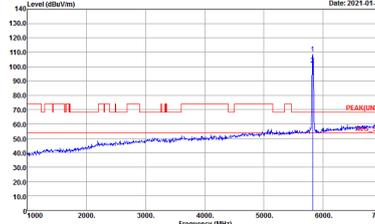


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
11+6	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>



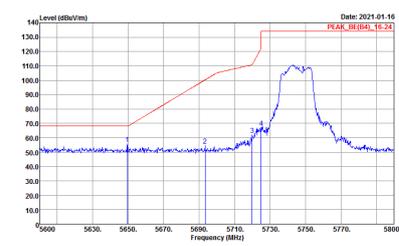
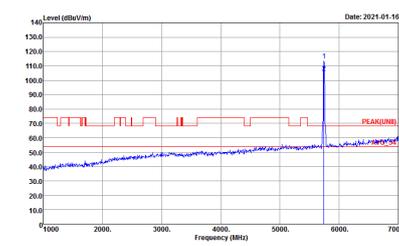
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
11+6	Horizontal	Fundamental
Peak	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY          Condition : PEAK(UNI) 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>



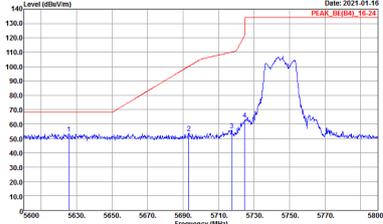
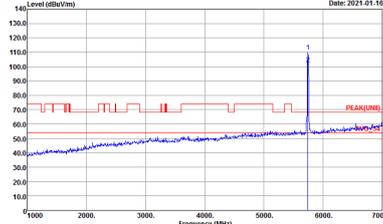
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
11+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(FB) 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>



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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
11+6	Horizontal	Fundamental
Peak	 <p>Date: 2021-01-16 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Project : 110409</p>	 <p>Date: 2021-01-16 PEAK(UNIT)</p> <p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL          Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Project : 110409</p>



WIFI	Band 4 5725-5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
11+6	Vertical	Fundamental
Peak	 <p>Date: 2021-01-16 PEAK_BE(4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	 <p>Date: 2021-01-16 PEAK(UNB)</p> <p>Site : 03CH16-HY Condition : PEAK(UNB) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>

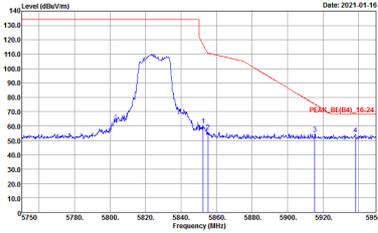
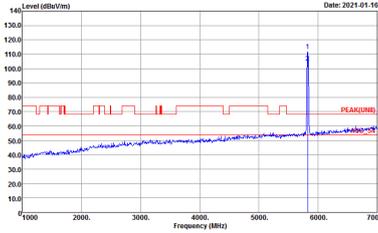


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
11+6	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Date: 2021-01-16 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	<p>Date: 2021-01-16 PEAK(UB)</p> <p>Site : 03CH16-HY Condition : PEAK(UB) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>
<p><b>Peak</b></p>	<p>Date: 2021-01-16 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	<p><b>Left blank</b></p>

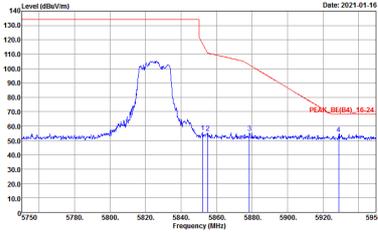
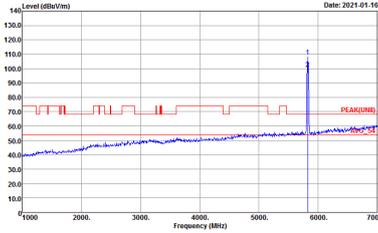


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
11+6	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
11+6	Horizontal	Fundamental
Peak	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>



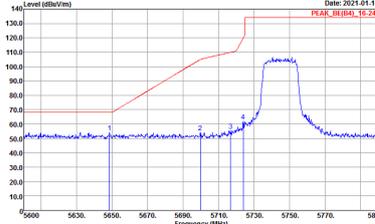
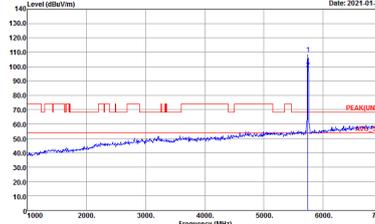
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
11+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>



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

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH149 5745MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Project : 110409</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL          Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Project : 110409</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
11+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>

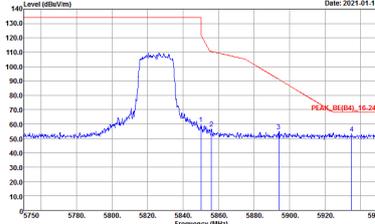
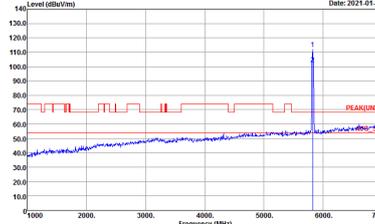


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
11+6	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Date: 2021-01-16 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	<p>Date: 2021-01-16 PEAK(UNII)</p> <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>
<p><b>Peak</b></p>	<p>Date: 2021-01-16 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	<p><b>Left blank</b></p>

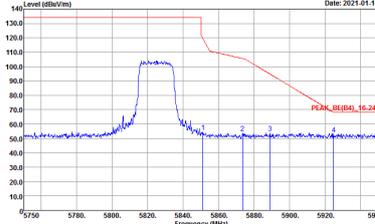
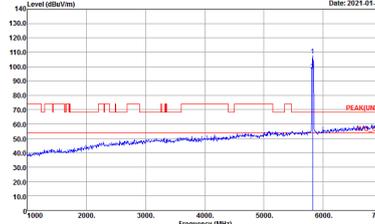


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
11+6	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
11+6	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UB) 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>



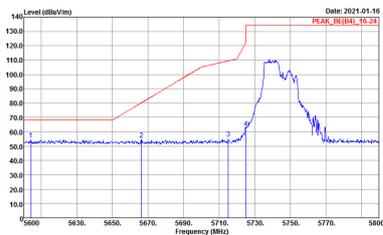
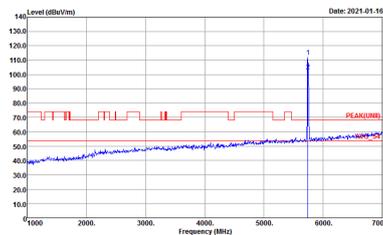
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
11+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>



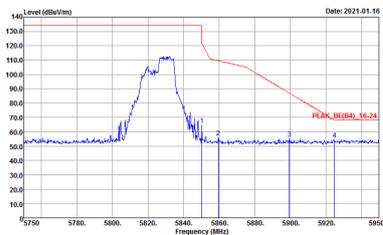
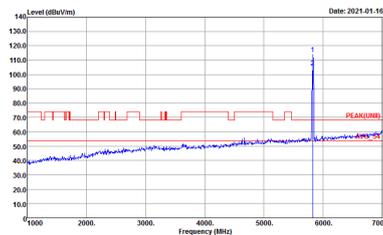
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 106/53 CH149 5745MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH16-HY          Condition : PEAK_SE(84)_16-24 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	<p>Site : 03CH16-HY          Condition : PEAK(LINE1) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>

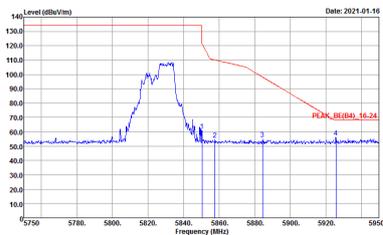
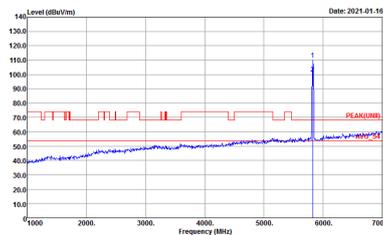


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
11+6	Vertical	Fundamental
Peak	 <p>Date: 2021-01-16 PEAK_BE(84)_1624</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	 <p>Date: 2021-01-16 PEAK(UNID)</p> <p>Site : 03CH16-HY Condition : PEAK(UNID) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
11+6	Horizontal	Fundamental
Peak	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 110409</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
11+6	Vertical	Fundamental
Peak	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY          Condition : PEAK_BE(04)_16-24 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY          Condition : PEAK(UNID) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



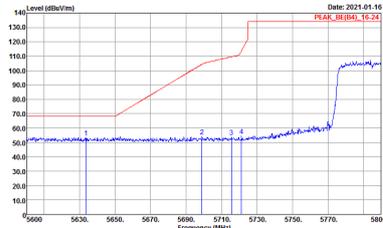
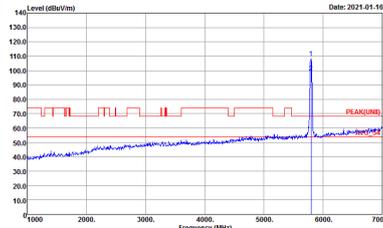
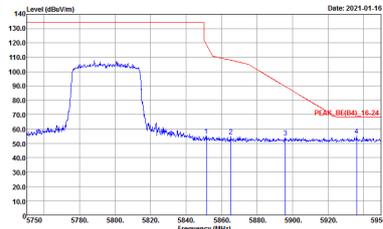
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
11+6	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	<p>Site : 03CH16-HY          Condition : PEAK(UMB) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>
Peak	<p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
11+6	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
11+6	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
11+6	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>



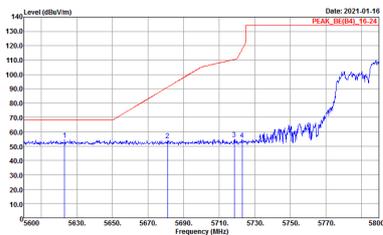
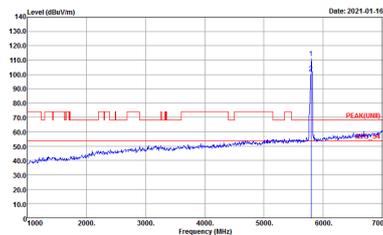
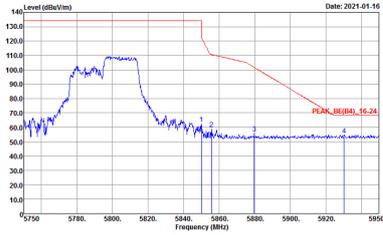
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
11+6	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 110409</p>	<p>Site : 03CH16-HY            Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 110409</p>
<b>Peak</b>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 110409</p>	<b>Left blank</b>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
11+6	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Date: 2021-01-16 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 110409</p>	<p>Date: 2021-01-16 PEAK(LIN)</p> <p>Site : 03CH16-HY Condition : PEAK(LIN)I 3m 91200_1522 VERTICAL Detector : Peak Project : 110409</p>
<p><b>Peak</b></p>	<p>Date: 2021-01-16 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 110409</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
11+6	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY            Condition : PEAK(UWB) 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	 <p>Date: 2021-01-16</p> <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>



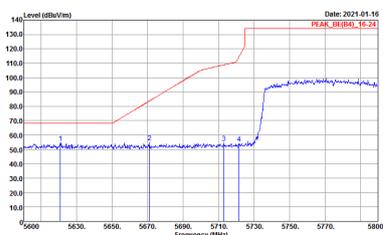
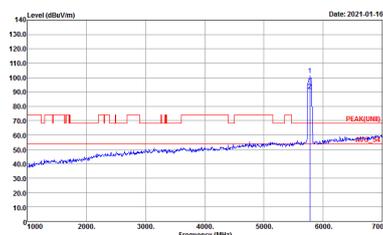
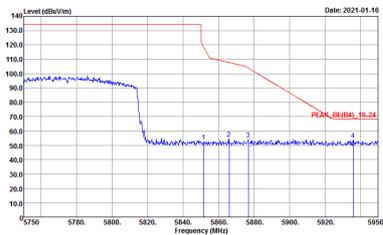
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
11+6	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	Left blank



Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

Table with 2 columns (WIFI, ANT) and 2 rows (11+6, Peak). It contains spectral analysis graphs for Horizontal and Fundamental signals, and a Left blank graph. Each graph shows Level (dBu/m) vs Frequency (MHz) with various parameters like Site, Condition, Detector, and Project.



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
11+6	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
11+6	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p>Site : 03CH16-HY            Condition : PEAK(LIN) 3m 91200_1522 HORIZONTAL            RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 110409</p>
<b>Peak</b>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 110409</p>	<b>Left blank</b>

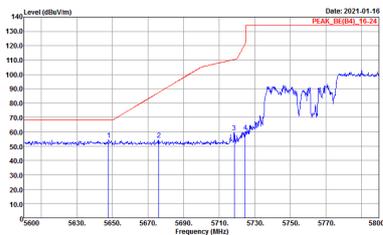
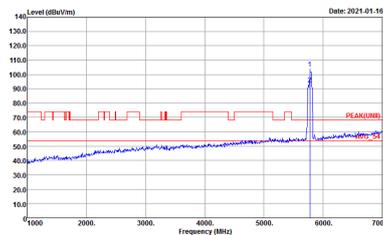
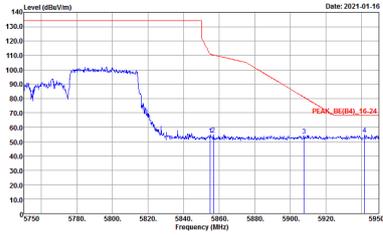


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
11+6	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Date: 2021-01-16 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	<p>Date: 2021-01-16 PEAK(UNB)</p> <p>Site : 03CH16-HY Condition : PEAK(UNB) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>
<p><b>Peak</b></p>	<p>Date: 2021-01-16 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
11+6	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(04)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(04)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 110409</p>	<p><b>Left blank</b></p>



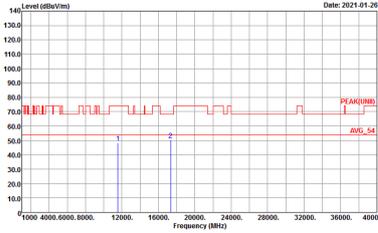
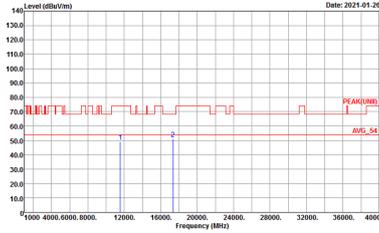
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
11+6	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2021-01-16 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	 <p>Date: 2021-01-16 PEAK(FUN)</p> <p>Site : 03CH16-HY Condition : PEAK(FUN) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>
<p><b>Peak</b></p>	 <p>Date: 2021-01-16 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 110409</p>	<p><b>Left blank</b></p>



**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11a CH149 5745MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-1FY          Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	<p>Site : 03CH16-1FY          Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL          Detector : Peak          Project : 110409</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
11+6	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 110409</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 110409</p>



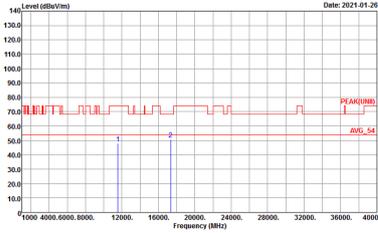
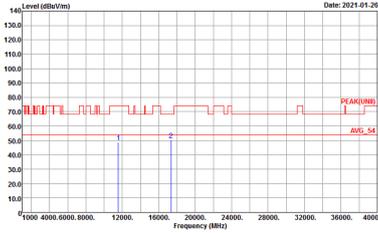
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
11+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 110409</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 110409</p>



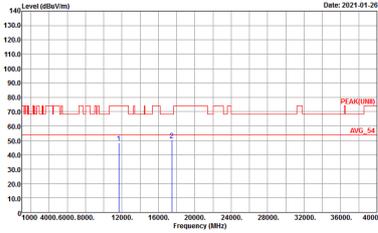
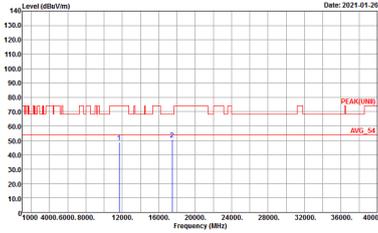
**Band 4 5725~5850MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH149 5745MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 110409</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 110409</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
11+6	Horizontal	Vertical
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



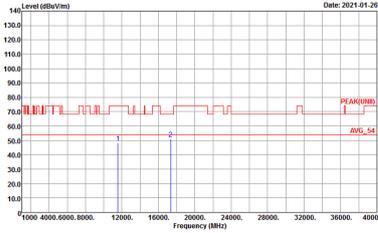
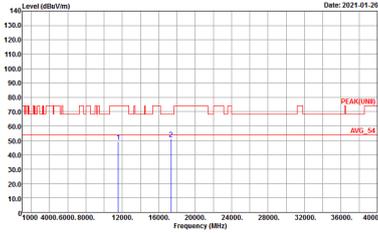
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
11+6	Horizontal	Vertical
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



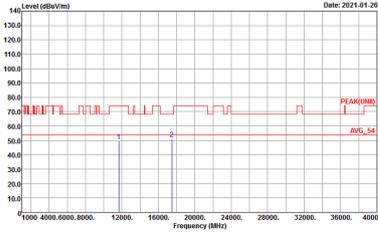
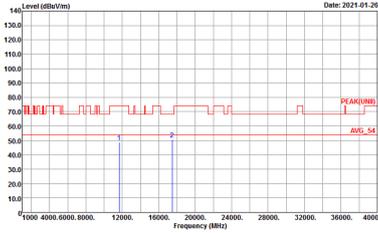
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Rows include WIFI (Band 4 5725~5850MHz Harmonic @ 3m), ANT (802.11ax HE20 Full CH149 5745MHz), and 11+6 (Peak and Avg. levels). Each cell contains a spectral plot and technical details like Site, Condition, Detector, and Project.



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
11+6	Horizontal	Vertical
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH165 5825MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Date: 2021-01-26</p> <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	 <p>Date: 2021-01-26</p> <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Partial 106 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 106/53 CH149 5745MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
11+6	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 110409</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 110409</p>



Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

Table with 3 columns: WIFI (Band 4 5725~5850MHz Harmonic @ 3m), ANT (802.11ax HE40 Full CH151 5755MHz), and 11+6 (Horizontal and Vertical). It contains two spectral plots showing Level (dBu/m) vs Frequency (MHz) for Peak and Avg. measurements.



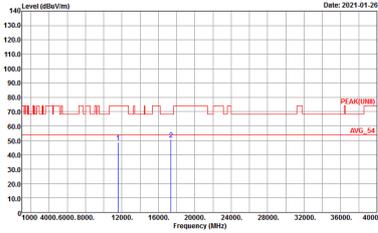
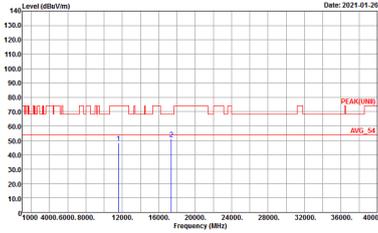
<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH159 5795MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 110409</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 110409</p>



Band 4 5725~5850MHz
WIFI 802.11ax HE40 Partial 242 (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Rows include WIFI (Band 4 5725~5850MHz Harmonic @ 3m), ANT (802.11ax HE40 Partial 242/61 CH151 5755MHz), and 11+6. The table contains two spectral plots: one for Horizontal and one for Vertical. Each plot shows Level (dBuV/m) vs Frequency (MHz) with Peak and Avg. markers. Metadata for both plots includes Site: 03CH16-HY, Condition: PEAK(UNII) 3m 91200\_1522, Detector: Peak, and Project: 110409.



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Partial 242/62 CH159 5795MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Full (Harmonic @ 3m)**

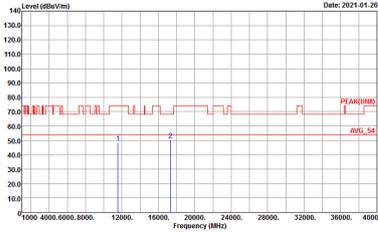
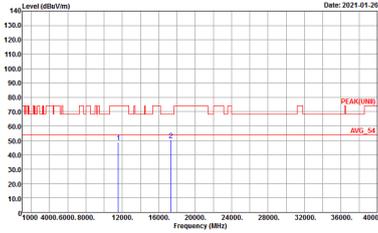
<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Full CH155 5775MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Partial 484 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Partial 484/65 CH155 5775MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Partial 484/66 CH155 5775MHz</b>	
<b>11+6</b>	<b>Horizontal</b>	<b>Vertical</b>
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 110409</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 110409</p>



Emission below 1GHz  
5GHz WIFI 802.11ax HE20 Full (LF)

WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full LF	
11+6	Horizontal	Vertical
QP / Peak	<p>Site : 03CH16-1FY Condition : QP 3m B1LOG_47020406 HORIZONTAL Detector : Peak Project : 110409</p>	<p>Site : 03CH16-1FY Condition : QP 3m B1LOG_47020406 VERTICAL Detector : Peak Project : 110409</p>

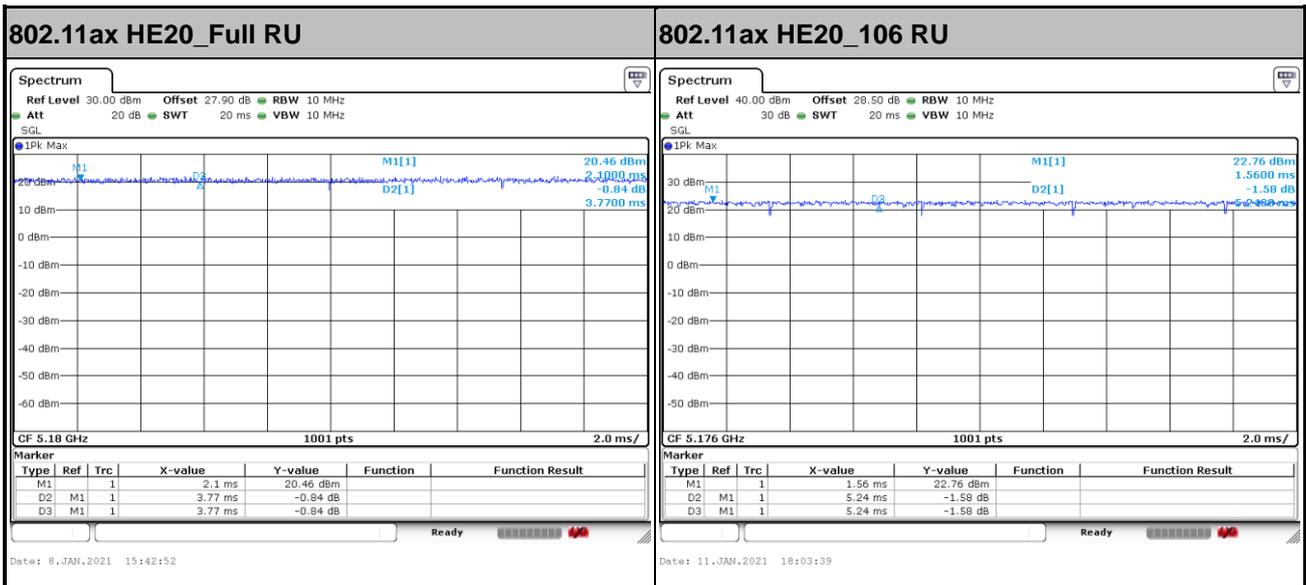
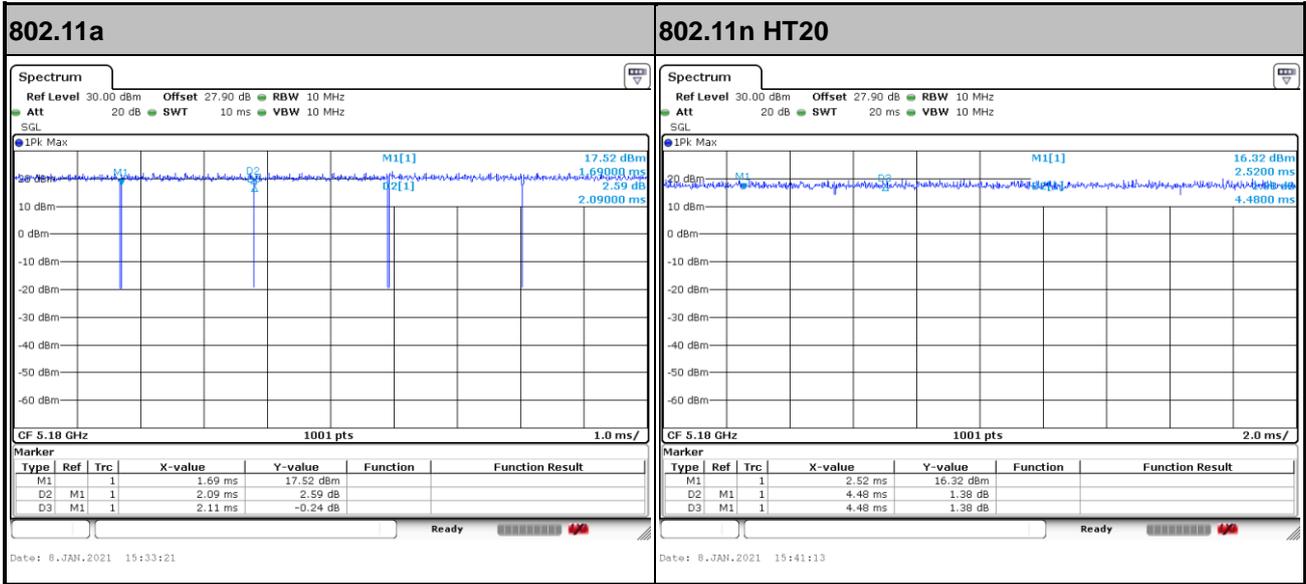


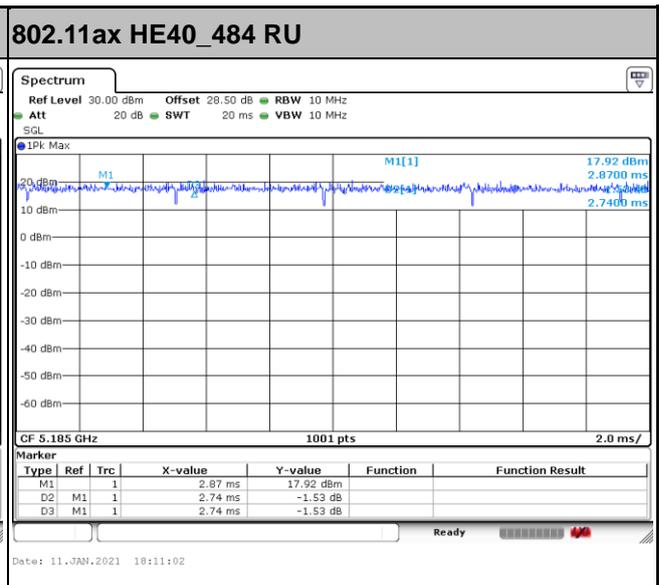
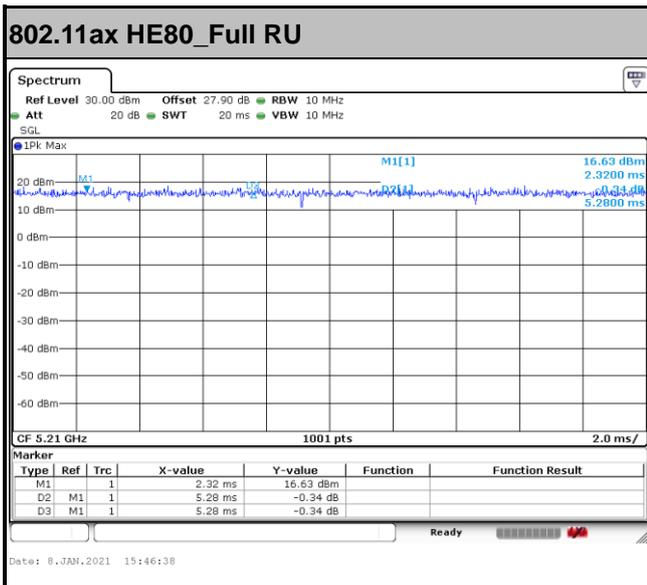
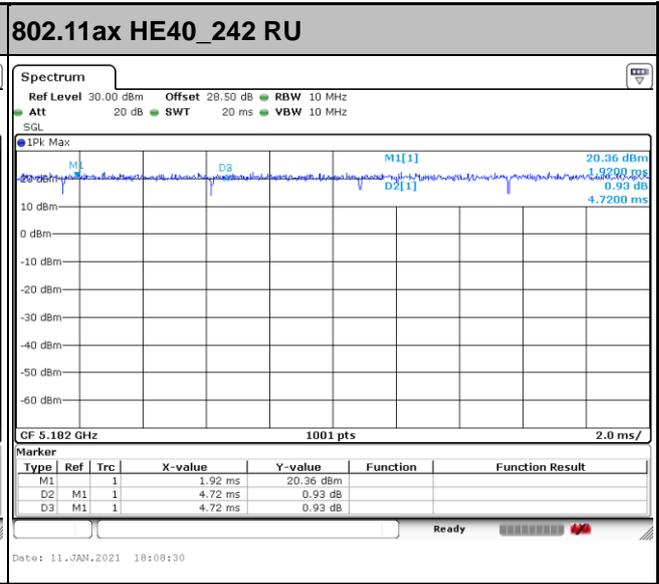
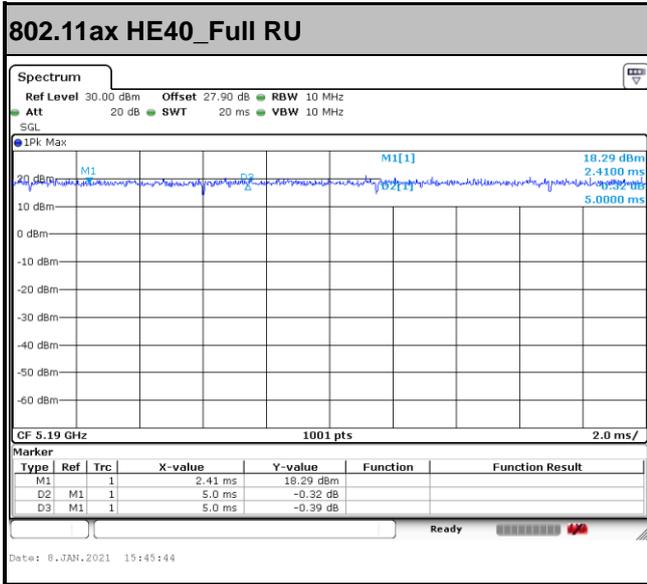
### Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
11+6	802.11a for Ant. 11	99.05	-	-	10Hz	0.04
11+6	802.11a for Ant. 6	99.05	-	-	10Hz	0.04
11+6	5GHz 802.11n HT20 for Ant 11	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11n HT20 for Ant 6	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE20 Full RU for Ant. 11	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE20 Full RU for Ant. 6	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE20 106 RU for Ant. 11	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE20 106 RU for Ant. 6	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE40 Full RU for Ant. 11	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE40 Full RU for Ant. 6	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE40 242 RU for Ant. 11	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE40 242 RU for Ant. 6	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE80 Full RU for Ant. 11	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE80 Full RU for Ant. 6	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE80 484 RU for Ant. 11	100.00	-	-	10Hz	0.00
11+6	5GHz 802.11ax HE80 484 RU for Ant. 6	100.00	-	-	10Hz	0.00



MIMO <Ant. 11>







MIMO <Ant. 6>

