



# FCC RADIO TEST REPORT

FCC ID : 2AFZZK48G  
Equipment : Mobile Phone  
Brand Name : POCO  
Model Name : 2311DRK48G  
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 Sep. 22, 2023 and testing was performed from Sep. 28, 2023 to Oct. 17, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010



# Table of Contents

**History of this test report..... 3**

**Summary of Test Result..... 4**

**1 General Description ..... 5**

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

    1.2 Modification of EUT ..... 7

    1.3 Testing Location ..... 7

    1.4 Applicable Standards..... 7

**2 Test Configuration of Equipment Under Test ..... 8**

    2.1 Carrier Frequency and Channel ..... 8

    2.2 Test Mode ..... 9

    2.3 Connection Diagram of Test System ..... 10

    2.4 Support Unit used in test configuration and system ..... 11

    2.5 EUT Operation Test Setup ..... 11

    2.6 Measurement Results Explanation Example..... 11

**3 Test Result ..... 12**

    3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement ..... 12

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

    3.3 Power Spectral Density Measurement ..... 18

    3.4 Unwanted Emissions Measurement ..... 22

    3.5 AC Conducted Emission Measurement..... 27

    3.6 Antenna Requirements ..... 29

**4 List of Measuring Equipment..... 30**

**5 Measurement Uncertainty ..... 32**

**Appendix A. Conducted Test Results**

**Appendix B. AC Conducted Emission Test Result**

**Appendix C. Radiated Spurious Emission**

**Appendix D. Radiated Spurious Emission Plots**

**Appendix E. Duty Cycle Plots**

**Appendix F. Setup Photographs**



### History of this test report

Report No.	Version	Description	Issue Date
FR392037F	01	Initial issue of report	Nov. 07, 2023



### 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	6.89 dB under the limit at 11650.00 MHz
3.5	15.207	AC Conducted Emission	Pass	22.31 dB under the limit at 1.63 MHz
3.6	15.203	Antenna Requirement	Pass	-

**Conformity Assessment Condition:**

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

**Disclaimer:**

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

**Reviewed by: Lewis Ho**  
**Report Producer: Clio Lo**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Specification is subject to this standard		
General Specs	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.	
Sample 1	12+512G (Plastic case)	
Sample 2	8+256G (Plastic case)	
Sample 3	12+512G (PU case)	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/BDS/Galileo/QZSS: PIFA Antenna NFC: FPC + PIFA Antenna	
Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. 5: -0.6 Ant. 18: 0.0

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

### 1.1.1 Antenna Directional Gain

**<For CDD Mode>**

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ .

$G_{ANT}$  is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

As minimum  $N_{SS}=1$  is supported by EUT, the formula can be simplified as:

$$Directional\ gain = 10 \cdot \log \left[ \frac{10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20}}{N_{ANT}} \right]^2 \text{ dBi}$$

Where  $G_1, G_2, \dots, G_N$  denote single antenna gain.

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 5	Ant 18	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
<b>Band IV</b>	-0.60	0.00	0.00	2.72	0.00	0.00

Calculation example:

If a device has two antenna,  $G_{ANT1} = -0.6\text{dBi}$ ;  $G_{ANT2} = 0.0\text{dBi}$

Directional gain of power measurement =  $\max(-0.6, 0.0) + 0 = 0.0 \text{ dBi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \frac{10^{(-0.6 \text{ dBi} / 20)} + 10^{(0.0 \text{ dBi} / 20)}}{2} \right\}$$

$$= 2.72 \text{ dBi}$$

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



### 1.2 Modification of EUT

No modifications made to the EUT during the testing.

### 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010 TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH05-HY, CO07-HY, 03CH16-HY

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

FCC designation No.: TW3786

### 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
  
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
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 with "\*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
- 2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.





## 2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2018.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

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

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

### MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	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

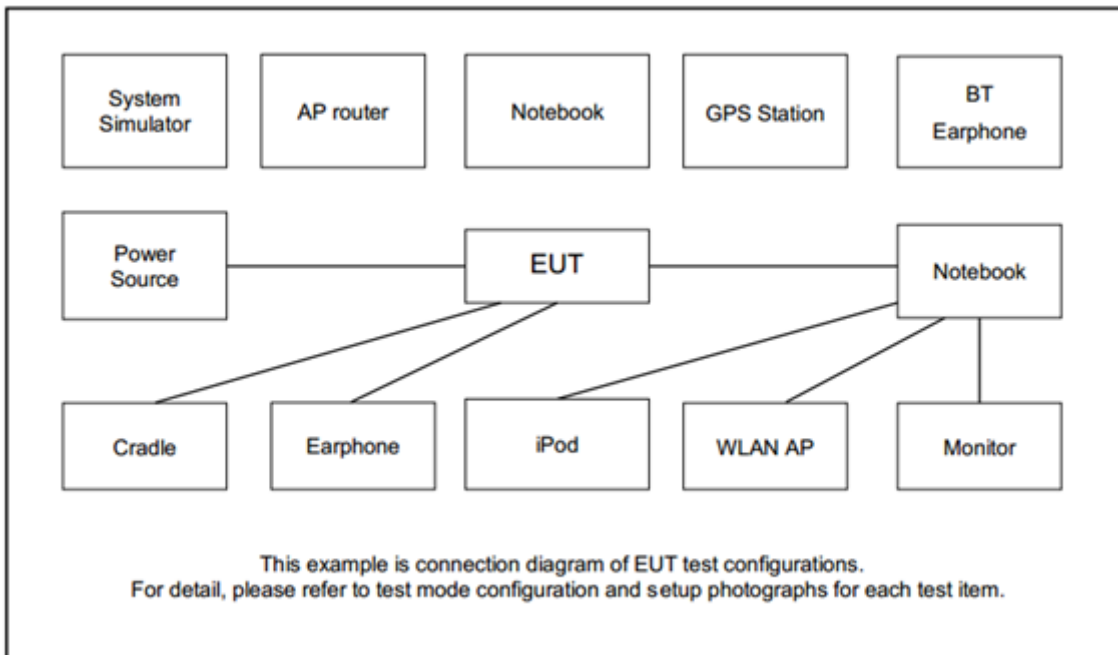
**Remark:** The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
<b>AC Conducted Emission</b>	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + USB Cable (Charging from AC 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	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

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

### 2.3 Connection Diagram of Test System





## 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Type C-Audio Cable	MI	B41121	N/A	Unshielded 0.1m	N/A
5.	Earphone	MI	EM023	N/A	Unshielded, 1.25 m	N/A

## 2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW: Xiaomi HyperOS 1.0) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

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

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

### 3 Test Result

#### 3.1 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.

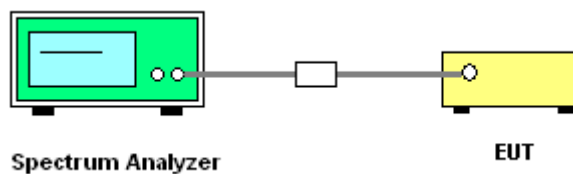
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
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



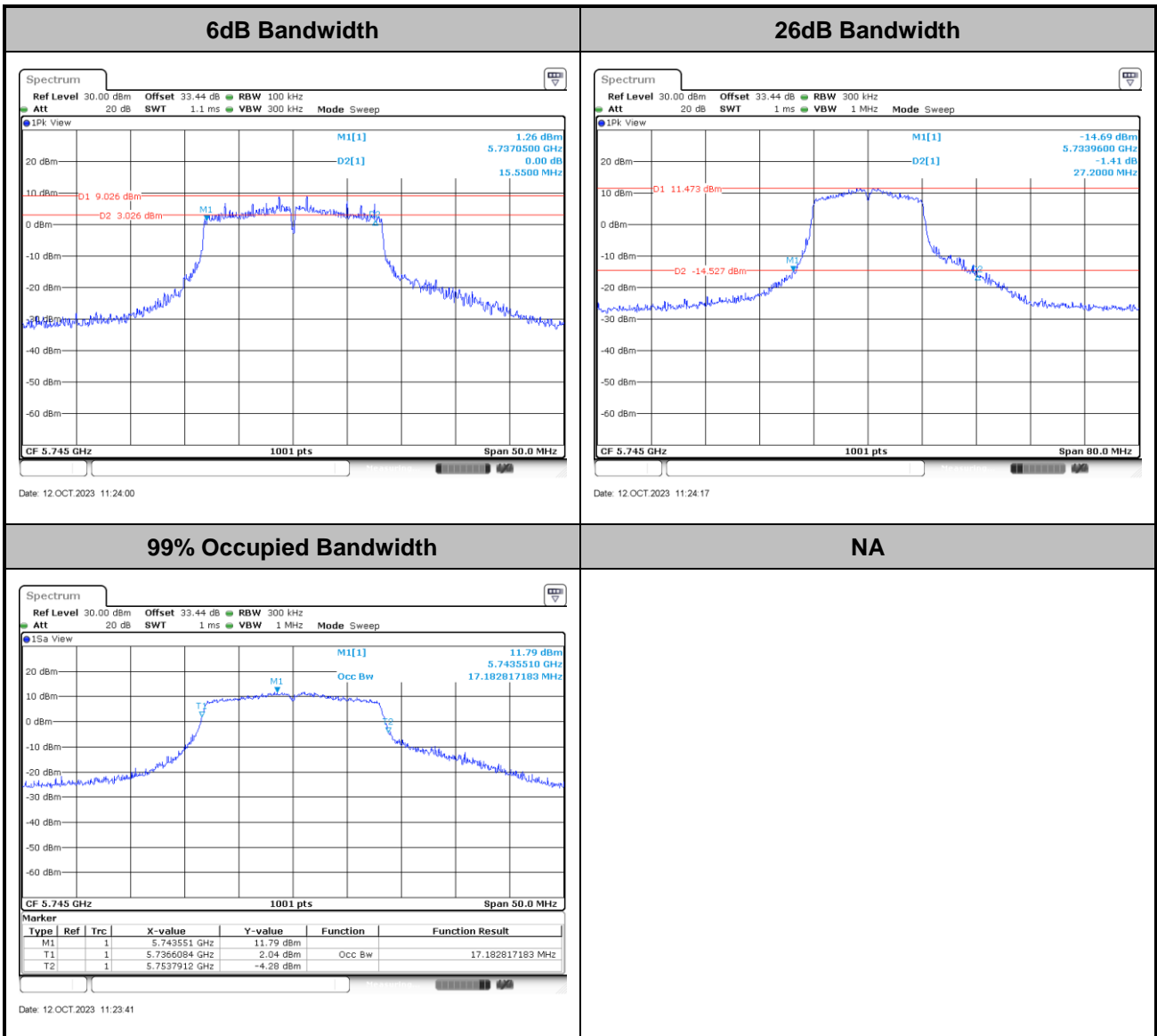
##### 3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.



MIMO <Ant. 5+18>

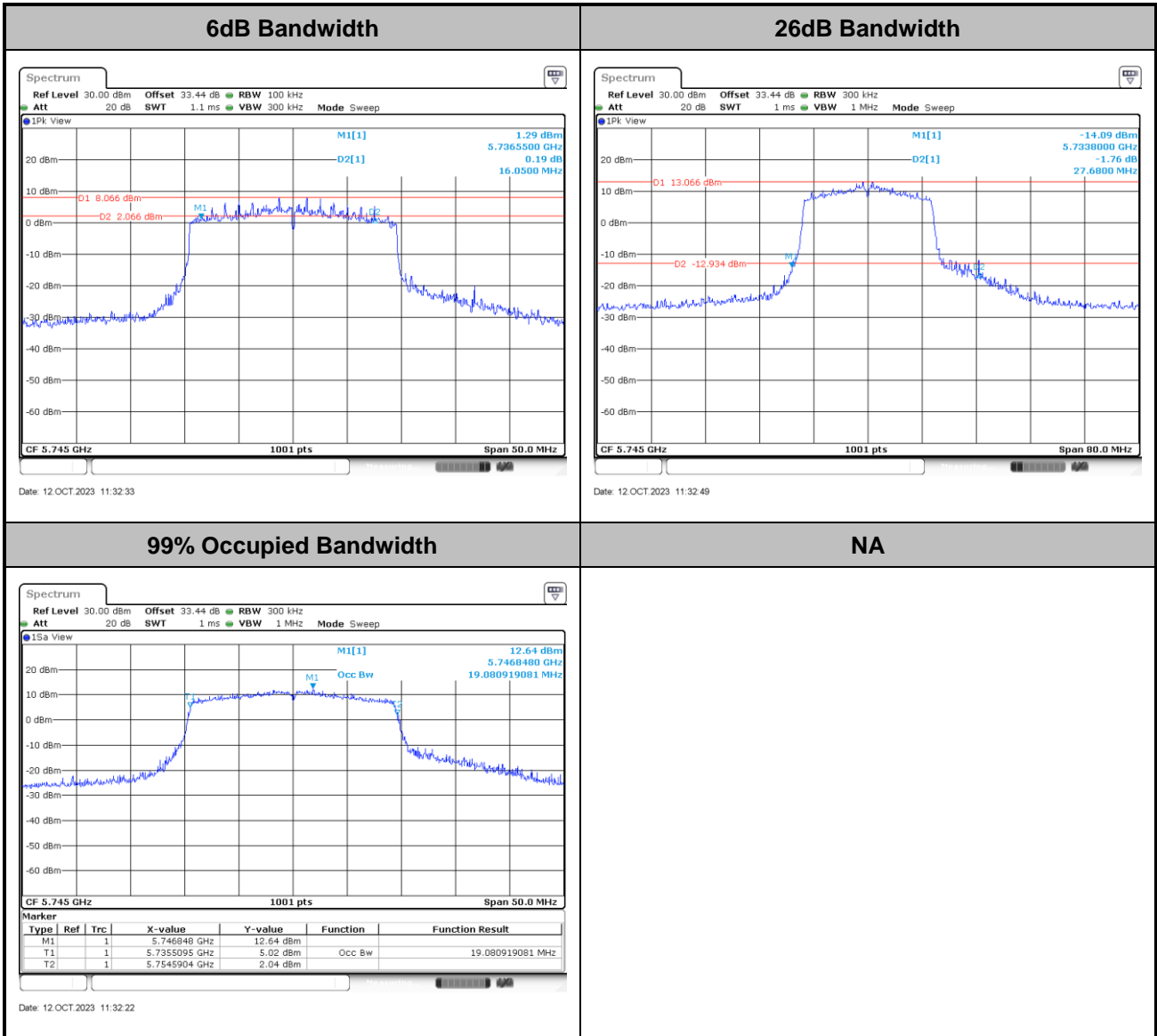
<802.11a>



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



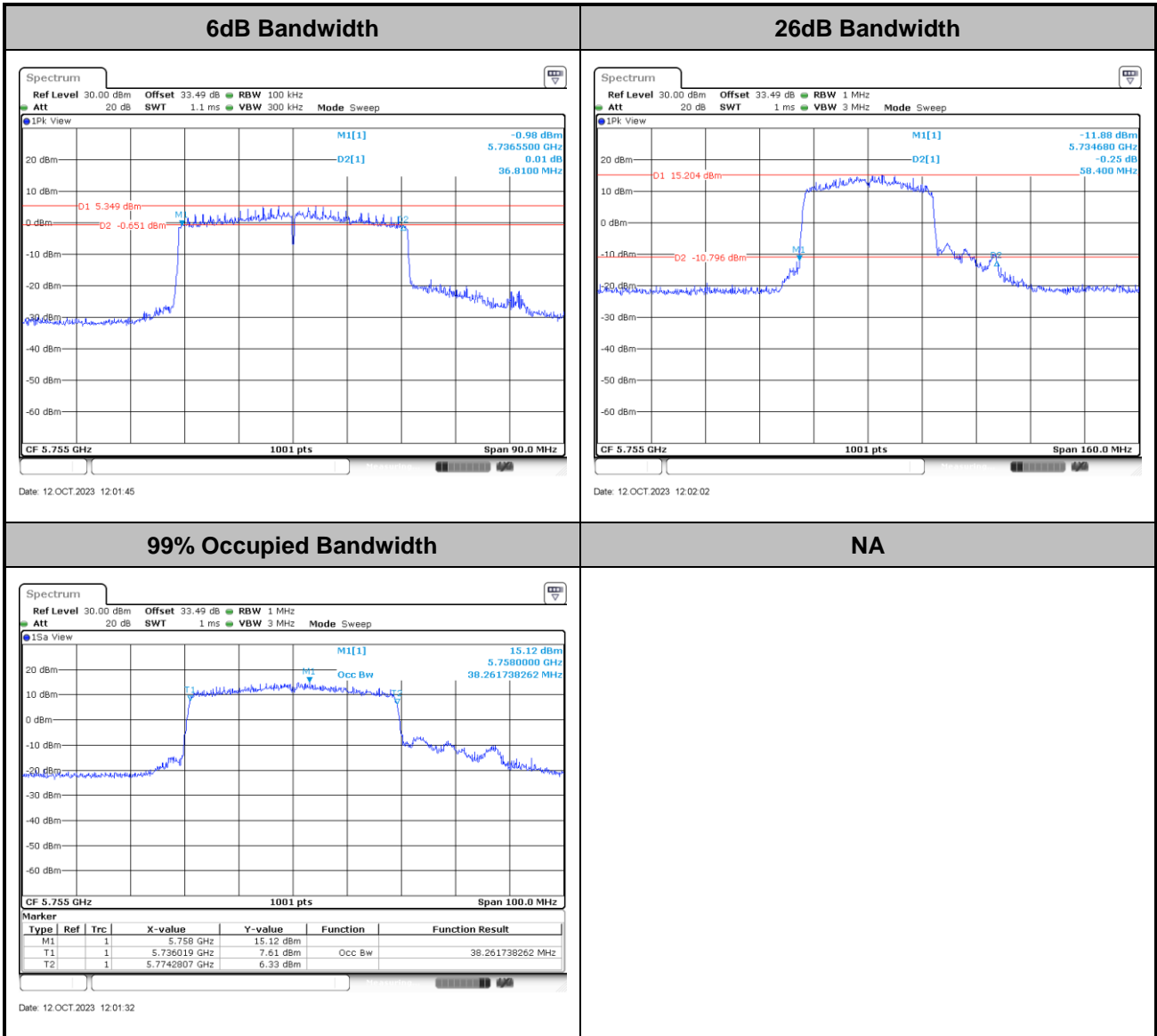
<802.11ax HE20>



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



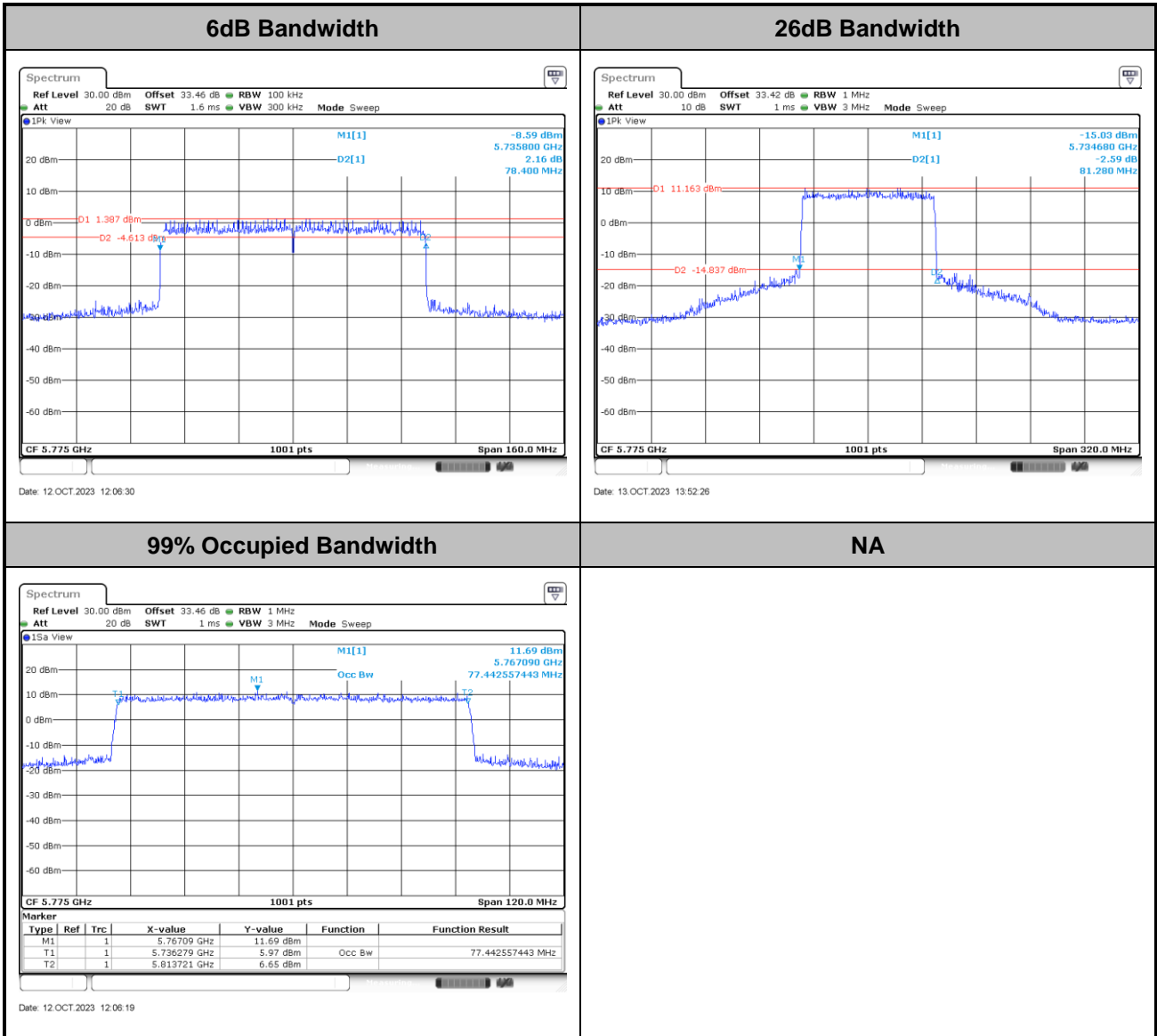
<802.11ax HE40>



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



<802.11ax HE80>



**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

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

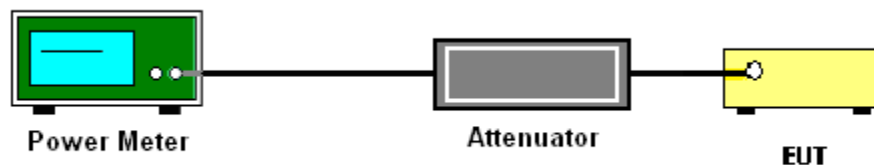
### 3.2.3 Test Procedures

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

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

### 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

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

#### 3.3.3 Test Procedures

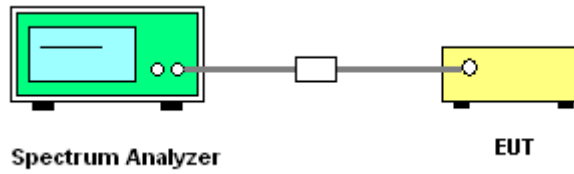
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

##### # Method SA-2 #

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

- Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 300kHz.
  - Set VBW  $\geq$  1 MHz.
  - Add  $10 \log(500 \text{ kHz/RBW})$  to the measured result, whereas RBW ( $<500 \text{ kHz}$ ) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
  - Number of points in sweep  $\geq 2 \text{ Span} / \text{RBW}$ .
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging mode.
  - Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6 \text{ dB}$  if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
  2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
  3. 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.

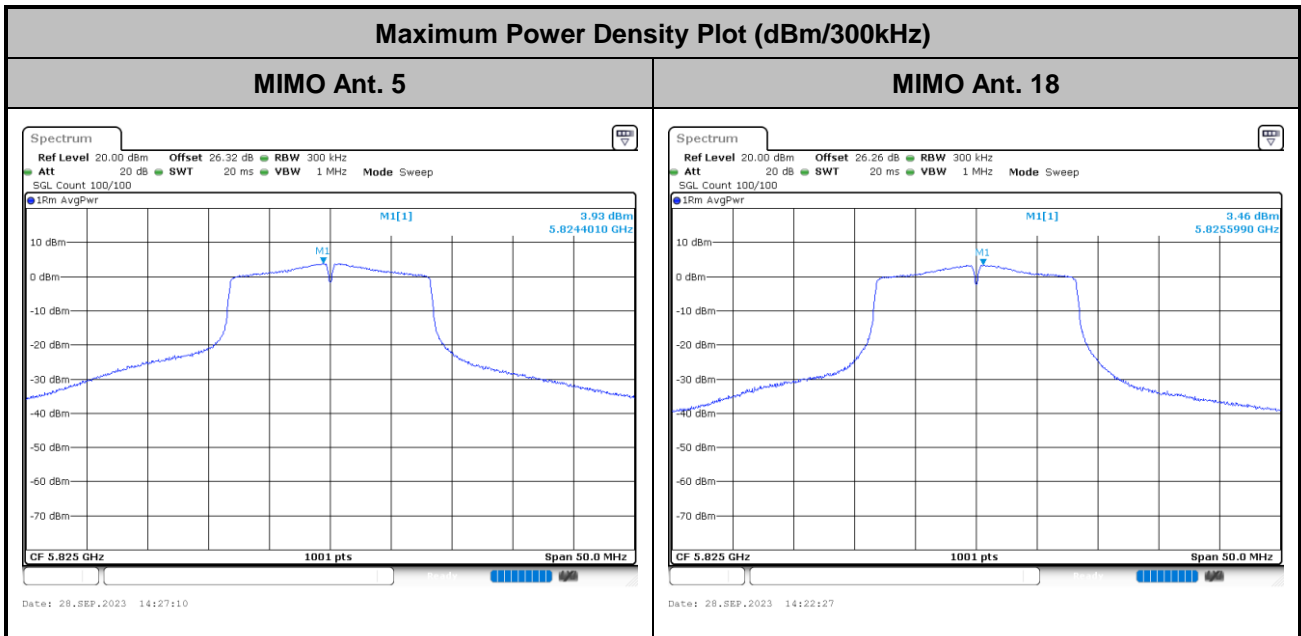
### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

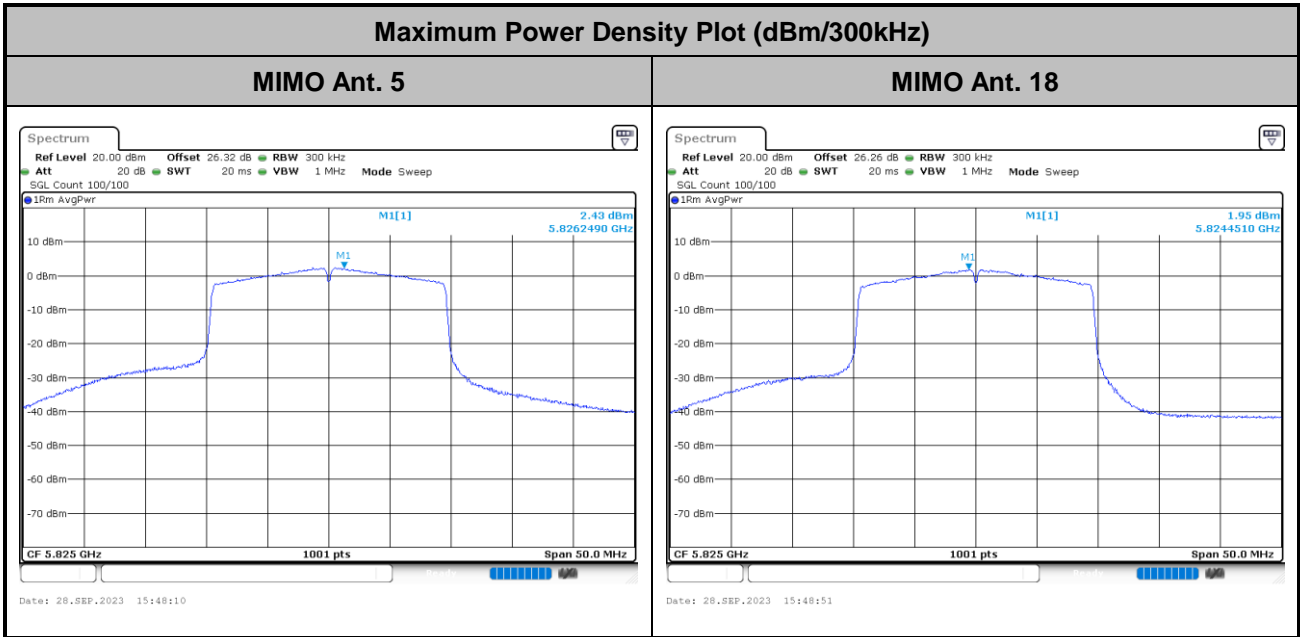
Please refer to Appendix A.

<802.11a>

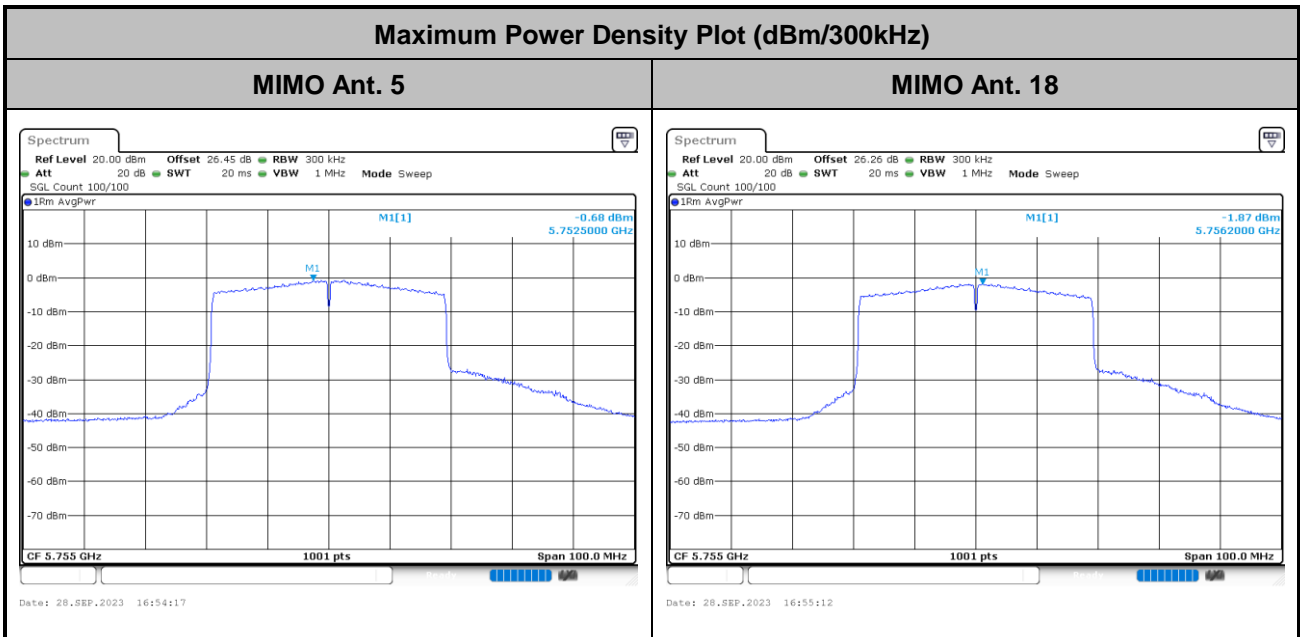




<802.11ax HE20>

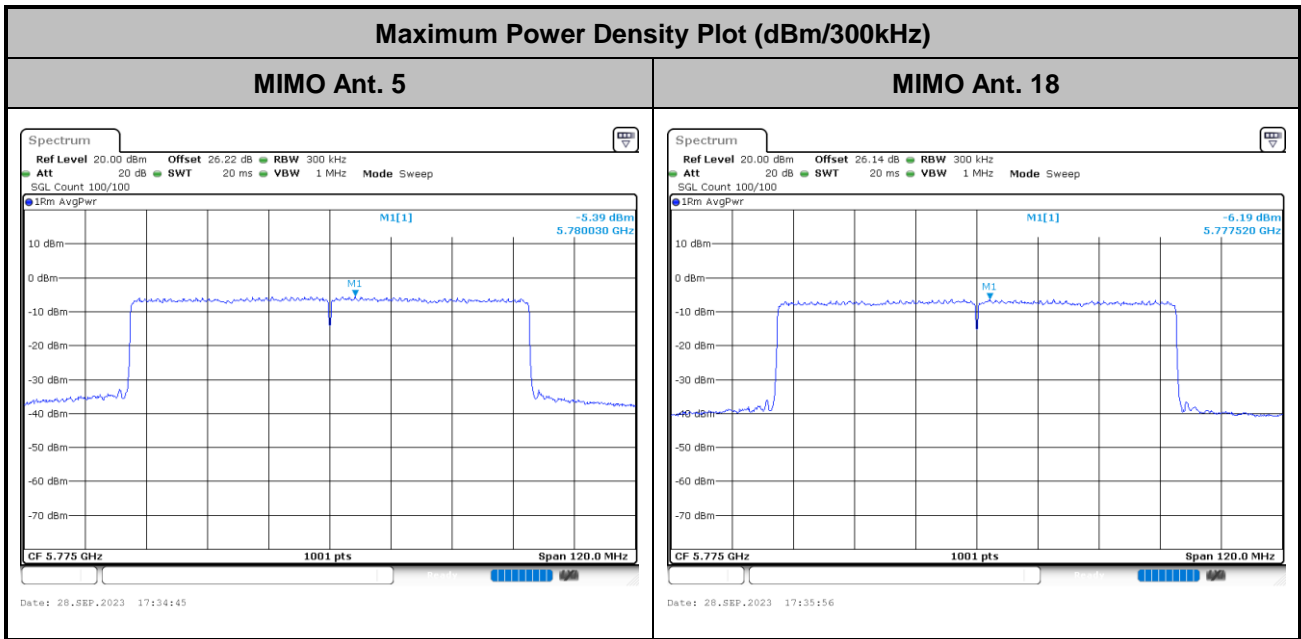


<802.11ax HE40>





<802.11ax HE80>





### 3.4 Unwanted Emissions Measurement

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

#### 3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table,

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

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

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

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

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

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

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



### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading.  
When there is no suspected emission found and the emission level is with at least 6 dB margin

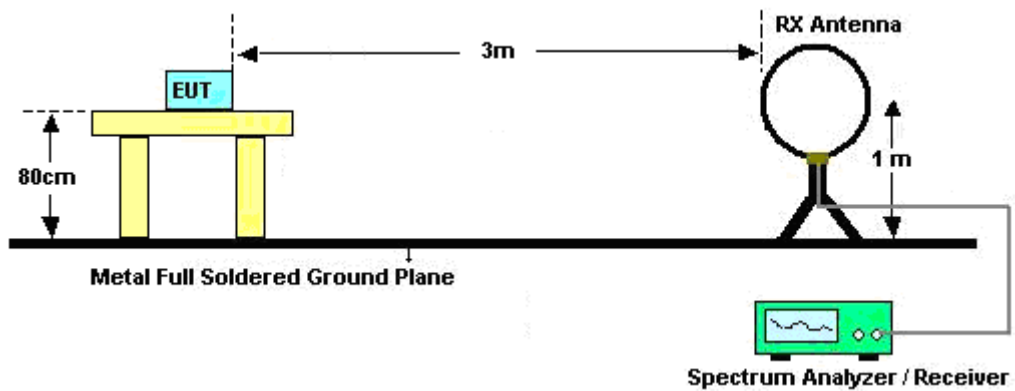
against QP limit line, the position is marked as “-”.

7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies.

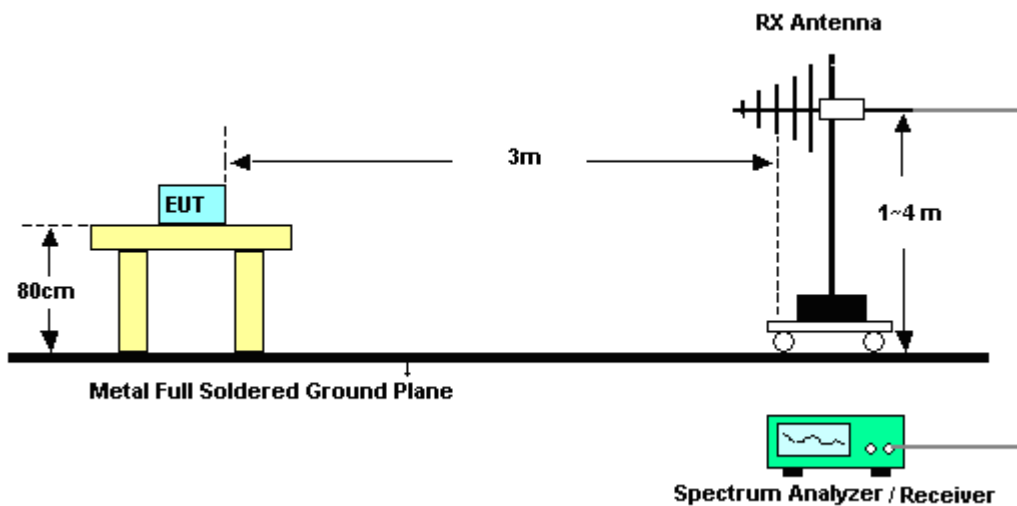
When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

### 3.4.4 Test Setup

For radiated emissions below 30MHz

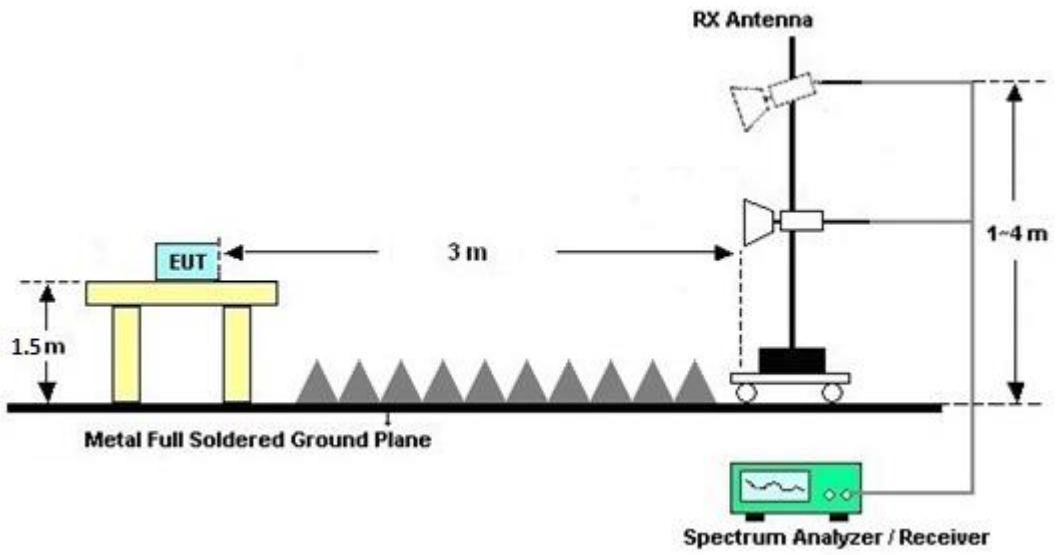


For radiated emissions from 30MHz to 1GHz

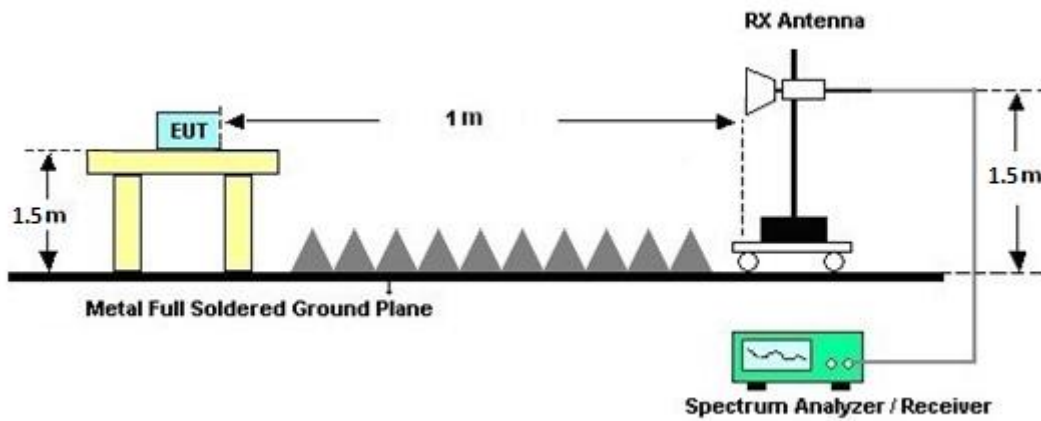




For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





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

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

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

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

Please refer to Appendix C and D.

### **3.4.7 Duty Cycle**

Please refer to Appendix E.

### **3.4.8 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

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

#### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.6 Antenna Requirements**

### **3.6.1 Standard Applicable**

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

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

An embedded-in antenna design is used.



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz~18GHz	Mar. 23, 2023	Oct. 02, 2023~ Oct. 17, 2023	Mar. 22, 2024	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz~40GHz	Nov. 04, 2022	Oct. 02, 2023~ Oct. 17, 2023	Nov. 03, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 08, 2022	Oct. 02, 2023~ Oct. 06, 2023	Oct. 07, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 07, 2023	Oct. 07, 2023~ Oct. 17, 2023	Oct. 06, 2024	Radiation (03CH16-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Oct. 02, 2023~ Oct. 17, 2023	Sep. 11, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Oct. 02, 2023~ Oct. 17, 2023	Jun. 26, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 26, 2022	Oct. 02, 2023~ Oct. 17, 2023	Dec. 25, 2023	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2022	Oct. 02, 2023~ Oct. 17, 2023	Dec. 08, 2023	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 03, 2023	Oct. 02, 2023~ Oct. 17, 2023	Jul. 02, 2024	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 15, 2022	Oct. 02, 2023~ Oct. 17, 2023	Dec. 14, 2023	Radiation (03CH16-HY)
Signal Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 26, 2023	Oct. 02, 2023~ Oct. 17, 2023	Jul. 25, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Oct. 02, 2023~ Oct. 17, 2023	Mar. 06, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLE X 104	EC-A5-300-5 757,805935/4 ,802434/4	30MHz~18GHz	Aug. 08, 2023	Oct. 02, 2023~ Oct. 17, 2023	Aug. 07, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40G	Jan. 03, 2023	Oct. 02, 2023~ Oct. 17, 2023	Jan. 02, 2024	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303B	TP200881	N/A	Sep. 08, 2023	Oct. 02, 2023~ Oct. 17, 2023	Sep. 07, 2024	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Oct. 02, 2023~ Oct. 17, 2023	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Oct. 02, 2023~ Oct. 17, 2023	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Oct. 02, 2023~ Oct. 17, 2023	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Oct. 02, 2023~ Oct. 17, 2023	N/A	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Sep. 28, 2023~ Oct. 13, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	Sep. 28, 2023~ Oct. 13, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Dec. 26, 2022	Sep. 28, 2023~ Oct. 13, 2023	Dec. 25, 2023	Conducted (TH05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Oct. 13, 2023	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Oct. 13, 2023	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 01, 2022	Oct. 13, 2023	Oct. 31, 2023	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	Oct. 13, 2023	Mar. 14, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 05, 2023	Oct. 13, 2023	Mar. 04, 2024	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 13, 2023	Oct. 13, 2023	Mar. 12, 2024	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Oct. 13, 2023	Sep. 19, 2024	Conduction (CO07-HY)



## 5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.46 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.5 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.6 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.5 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.6 dB
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Sylvia Li and Yung-Chun, Lin	Temperature:	21~25	°C
Test Date:	2023/9/28~2023/10/13	Relative Humidity:	51~54	%

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

U-NII-3 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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	149	5745	17.18	16.78	27.20	24.88	15.55	15.80	0.5	Pass
11a	6Mbps	2	157	5785	17.03	16.58	31.92	20.96	15.20	15.80	0.5	Pass
11a	6Mbps	2	165	5825	17.58	16.68	33.20	26.56	15.35	15.15	0.5	Pass

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

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18	
11a	6Mbps	2	149	5745	19.20	18.20	21.74	30.00		0.00		Pass
11a	6Mbps	2	157	5785	18.90	18.50	21.71	30.00		0.00		Pass
11a	6Mbps	2	165	5825	19.30	19.00	22.16	30.00		0.00		Pass
HT20	MCS0	2	149	5745	17.70	16.70	20.24	30.00		0.00		Pass
HT20	MCS0	2	157	5785	17.40	16.90	20.17	30.00		0.00		Pass
HT20	MCS0	2	165	5825	18.00	17.60	20.81	30.00		0.00		Pass
HT40	MCS0	2	151	5755	17.40	16.50	19.98	30.00		0.00		Pass
HT40	MCS0	2	159	5795	17.30	16.60	19.97	30.00		0.00		Pass
VHT20	MCS0	2	149	5745	17.80	16.80	20.34	30.00		0.00		Pass
VHT20	MCS0	2	157	5785	17.50	17.00	20.27	30.00		0.00		Pass
VHT20	MCS0	2	165	5825	18.10	17.70	20.91	30.00		0.00		Pass
VHT40	MCS0	2	151	5755	17.50	16.60	20.08	30.00		0.00		Pass
VHT40	MCS0	2	159	5795	17.40	16.70	20.07	30.00		0.00		Pass
VHT80	MCS0	2	155	5775	16.50	15.70	19.13	30.00		0.00		Pass

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

U-NII-3 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18	
11a	6Mbps	2	149	5745	0.14	0.12	2.22	6.26	5.18	9.27	30.00	30.00	2.72	2.72	Pass	
11a	6Mbps	2	157	5785	0.14	0.12	2.22	5.55	5.16	8.56	30.00	30.00	2.72	2.72	Pass	
11a	6Mbps	2	165	5825	0.14	0.12	2.22	6.29	5.80	9.30	30.00	30.00	2.72	2.72	Pass	

Note: PSD Sum = Max PSD(Ant. 5, Ant. 18) + 10 log (n)

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

U-NII-3 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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	149	5745	Full	19.08	19.03	27.68	25.28	16.05	17.45	0.5	Pass
HE20	MCS0	2	157	5785	Full	18.98	18.88	24.48	21.84	16.05	16.50	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.03	18.98	26.56	26.80	16.85	16.10	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.26	38.16	58.40	58.56	36.81	35.46	0.5	Pass
HE40	MCS0	2	159	5795	Full	38.06	37.86	57.60	40.80	36.00	35.28	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.44	77.44	81.28	81.60	78.40	78.24	0.5	Pass

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

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18	
HE20	MCS0	2	149	5745	Full	18.30	17.30	20.84	30.00		0.00		Pass
HE20	MCS0	2	149	5745	26/0	10.55	9.62	13.12	30.00		0.00		Pass
HE20	MCS0	2	149	5745	52/37	13.37	12.49	15.96	30.00		0.00		Pass
HE20	MCS0	2	149	5745	106/53	16.27	15.54	18.93	30.00		0.00		Pass
HE20	MCS0	2	157	5785	Full	18.00	17.50	20.77	30.00		0.00		Pass
HE20	MCS0	2	157	5785	26/4	10.07	9.26	12.69	30.00		0.00		Pass
HE20	MCS0	2	157	5785	52/38	12.99	12.19	15.62	30.00		0.00		Pass
HE20	MCS0	2	157	5785	106/53	15.87	15.14	18.53	30.00		0.00		Pass
HE20	MCS0	2	165	5825	Full	18.60	18.20	21.41	30.00		0.00		Pass
HE20	MCS0	2	165	5825	26/8	10.47	9.82	13.17	30.00		0.00		Pass
HE20	MCS0	2	165	5825	52/40	13.61	13.01	16.33	30.00		0.00		Pass
HE20	MCS0	2	165	5825	106/54	16.44	15.94	19.21	30.00		0.00		Pass
HE40	MCS0	2	151	5755	Full	18.50	17.60	21.08	30.00		0.00		Pass
HE40	MCS0	2	159	5795	Full	18.40	17.70	21.07	30.00		0.00		Pass
HE80	MCS0	2	155	5775	Full	18.50	17.70	21.13	30.00		0.00		Pass

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

U-NII-3 MIMO																	
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18	
HE20	MCS0	2	149	5745	Full	0.19	0.19	2.22	4.50	3.35	7.51	30.00	2.72	Pass			
HE20	MCS0	2	149	5745	26/0	0.19	0.19	2.22	4.10	3.31	7.11	30.00	2.72	Pass			
HE20	MCS0	2	149	5745	52/37	0.19	0.19	2.22	4.09	3.14	7.10	30.00	2.72	Pass			
HE20	MCS0	2	149	5745	106/53	0.19	0.19	2.22	4.15	3.33	7.16	30.00	2.72	Pass			
HE20	MCS0	2	157	5785	Full	0.19	0.19	2.22	4.00	3.56	7.01	30.00	2.72	Pass			
HE20	MCS0	2	157	5785	26/4	0.19	0.19	2.22	3.72	3.17	6.73	30.00	2.72	Pass			
HE20	MCS0	2	157	5785	52/38	0.19	0.19	2.22	3.80	3.33	6.81	30.00	2.72	Pass			
HE20	MCS0	2	157	5785	106/53	0.19	0.19	2.22	3.53	3.44	6.54	30.00	2.72	Pass			
HE20	MCS0	2	165	5825	Full	0.19	0.19	2.22	4.84	4.36	7.85	30.00	2.72	Pass			
HE20	MCS0	2	165	5825	26/8	0.19	0.19	2.22	4.40	4.10	7.41	30.00	2.72	Pass			
HE20	MCS0	2	165	5825	52/40	0.19	0.19	2.22	4.55	3.85	7.56	30.00	2.72	Pass			
HE20	MCS0	2	165	5825	106/54	0.19	0.19	2.22	4.62	3.94	7.63	30.00	2.72	Pass			
HE40	MCS0	2	151	5755	Full	0.31	0.35	2.22	1.85	0.70	4.86	30.00	2.72	Pass			
HE40	MCS0	2	159	5795	Full	0.31	0.35	2.22	1.35	0.53	4.36	30.00	2.72	Pass			
HE80	MCS0	2	155	5775	Full	0.61	0.61	2.22	-2.56	-3.36	0.45	30.00	2.72	Pass			

Note: PSD Sum = Max PSD(Ant. 5, Ant. 18) + 10 log (n)



## Appendix B. AC Conducted Emission Test Results

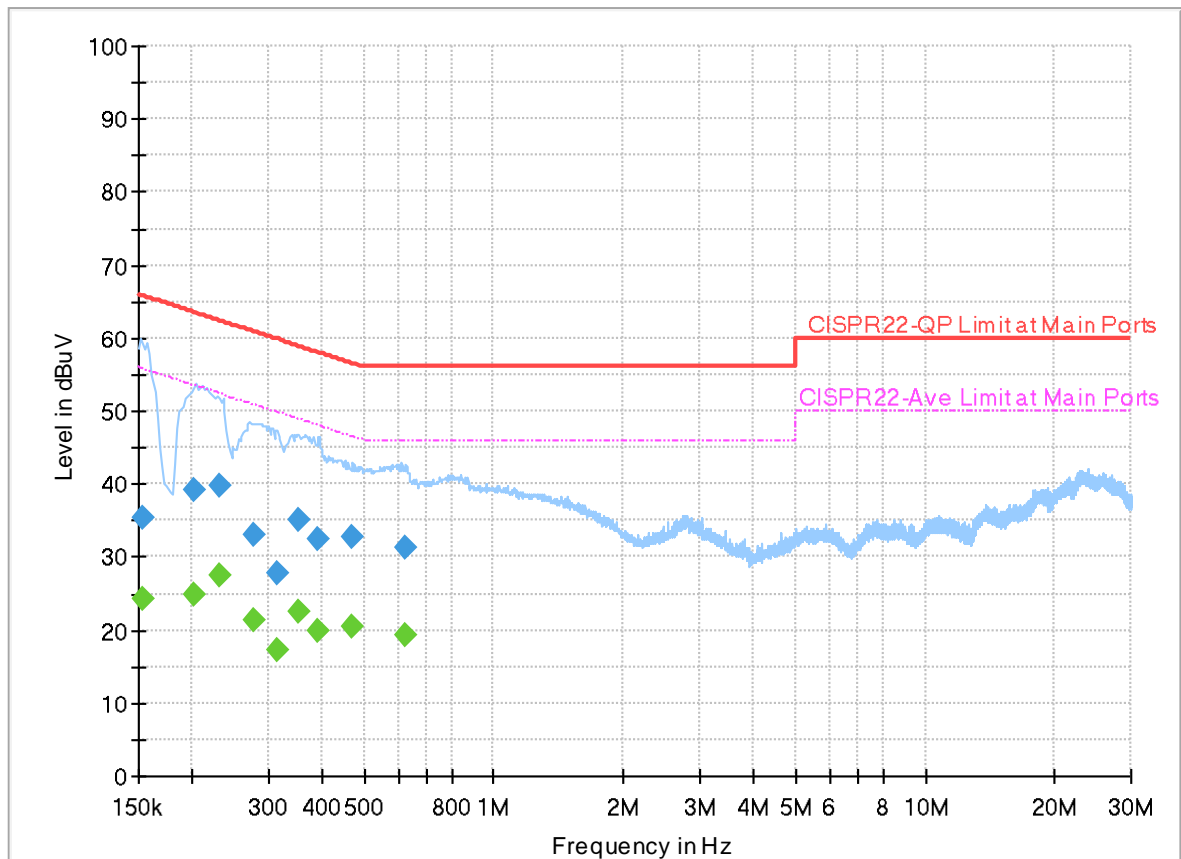
Test Engineer :	Louis Chung	Temperature :	23.3~26.7°C
		Relative Humidity :	54.5~61.2%



# EUT Information

Report NO : 392037  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



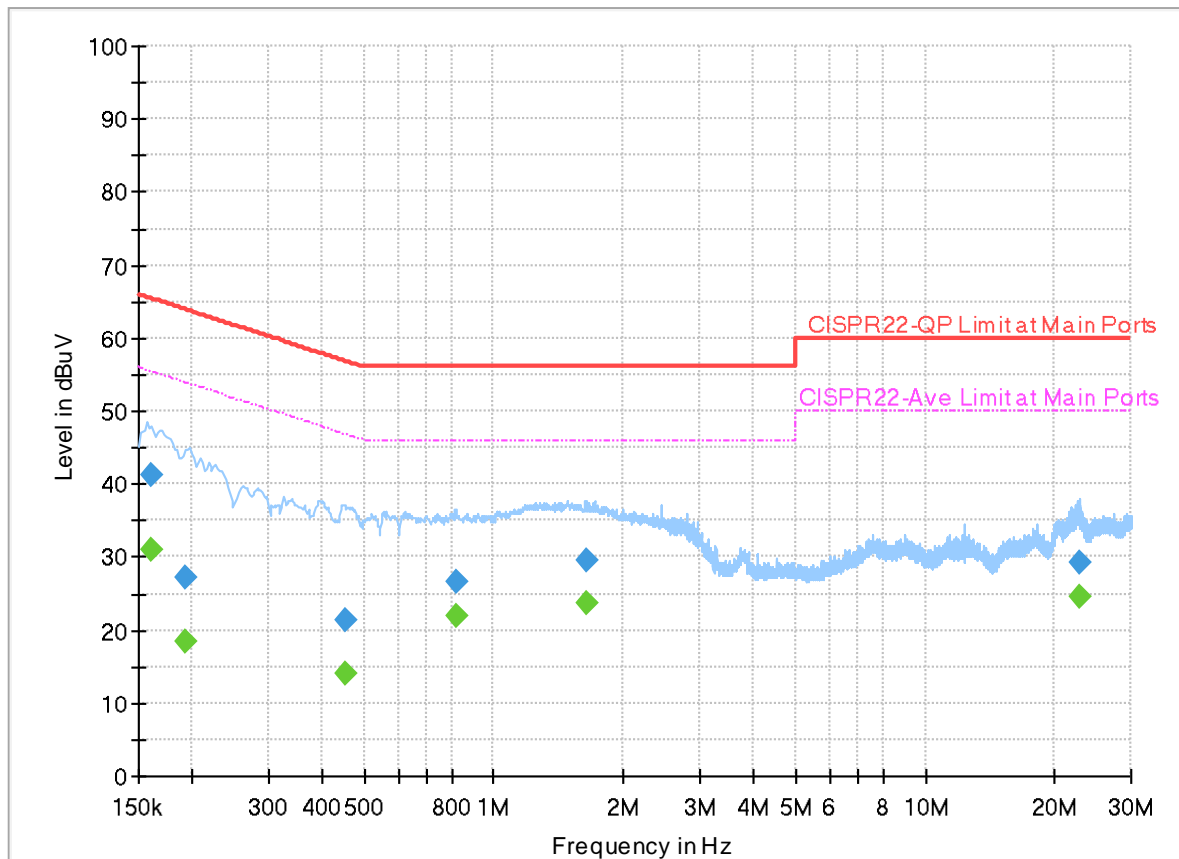
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.153105	35.39	---	65.83	30.44	L1	OFF	19.9
0.153105	---	24.36	55.83	31.47	L1	OFF	19.9
0.201390	39.30	---	63.55	24.25	L1	OFF	19.9
0.201390	---	24.81	53.55	28.74	L1	OFF	19.9
0.232440	39.64	---	62.36	22.72	L1	OFF	19.9
0.232440	---	27.44	52.36	24.92	L1	OFF	19.9
0.276000	33.10	---	60.94	27.84	L1	OFF	19.9
0.276000	---	21.26	50.94	29.68	L1	OFF	19.9
0.314070	27.84	---	59.86	32.02	L1	OFF	19.9
0.314070	---	17.19	49.86	32.67	L1	OFF	19.9
0.351690	34.98	---	58.92	23.94	L1	OFF	19.9
0.351690	---	22.60	48.92	26.32	L1	OFF	19.9
0.391830	32.43	---	58.03	25.60	L1	OFF	19.9
0.391830	---	19.96	48.03	28.07	L1	OFF	19.9
0.470760	32.63	---	56.50	23.87	L1	OFF	20.0
0.470760	---	20.60	46.50	25.90	L1	OFF	20.0
0.623760	31.43	---	56.00	24.57	L1	OFF	20.0
0.623760	---	19.20	46.00	26.80	L1	OFF	20.0

## EUT Information

Report NO : 392037  
 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)
0.161430	---	30.90	55.39	24.49	N	OFF	19.9
0.161430	41.24	---	65.39	24.15	N	OFF	19.9
0.192750	---	18.43	53.92	35.49	N	OFF	19.9
0.192750	27.28	---	63.92	36.64	N	OFF	19.9
0.450600	---	14.06	46.86	32.80	N	OFF	20.0
0.450600	21.33	---	56.86	35.53	N	OFF	20.0
0.817080	---	21.80	46.00	24.20	N	OFF	20.0
0.817080	26.63	---	56.00	29.37	N	OFF	20.0
1.633110	---	23.69	46.00	22.31	N	OFF	20.0
1.633110	29.47	---	56.00	26.53	N	OFF	20.0
22.743060	---	24.43	50.00	25.57	N	OFF	20.2
22.743060	29.12	---	60.00	30.88	N	OFF	20.2



### Appendix C. Radiated Spurious Emission

Test Engineer :	Jack tsai, Gary Guo and Steven Wu	Temperature :	20~25°C
		Relative Humidity :	50~65%

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

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 149 5745MHz		5646	54.67	-13.53	68.2	39.56	33.08	11.89	29.86	100	58	P	H	
		5695.4	56.84	-44.97	101.81	41.42	33.37	11.93	29.88	100	58	P	H	
		5718	58.42	-51.82	110.24	42.86	33.51	11.94	29.89	100	58	P	H	
		5724.2	66.43	-53.95	120.38	50.82	33.55	11.95	29.89	100	58	P	H	
	*	5745	110.28	-	-	94.54	33.67	11.97	29.9	100	58	P	H	
	*	5745	104.43	-	-	88.69	33.67	11.97	29.9	100	58	A	H	
														H
														H
			5607.6	55.36	-12.84	68.2	40.41	32.93	11.86	29.84	100	276	P	V
			5697.2	56.95	-46.19	103.14	41.52	33.38	11.93	29.88	100	276	P	V
			5719.6	67.46	-43.23	110.69	51.88	33.52	11.95	29.89	100	276	P	V
			5724.6	71.77	-49.52	121.29	56.16	33.55	11.95	29.89	100	276	P	V
	*	5745	115.89	-	-	100.15	33.67	11.97	29.9	100	276	P	V	
	*	5745	109.6	-	-	93.86	33.67	11.97	29.9	100	276	A	V	
													V	
													V	



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5642	54.8	-13.4	68.2	39.71	33.07	11.88	29.86	100	306	P	H
		5688	54.8	-41.55	96.35	39.43	33.33	11.92	29.88	100	306	P	H
		5710	53.94	-54.06	108	38.42	33.46	11.94	29.88	100	306	P	H
		5720.4	54.42	-57.29	111.71	38.84	33.52	11.95	29.89	100	306	P	H
	*	5785	111.64	-	-	95.71	33.84	12	29.91	100	306	P	H
	*	5785	105.01	-	-	89.08	33.84	12	29.91	100	306	A	H
		5851.4	56.43	-62.58	119.01	40.22	34.01	12.14	29.94	100	306	P	H
		5858.2	55.32	-54.58	109.9	39.08	34.03	12.15	29.94	100	306	P	H
		5901.8	56.4	-28.93	85.33	39.9	34.2	12.26	29.96	100	306	P	H
		5938.6	57.58	-10.62	68.2	41.01	34.2	12.35	29.98	100	306	P	H
													H
													H
<b>802.11a</b>													
<b>CH 157</b>													
<b>5785MHz</b>		5641	54.9	-13.3	68.2	39.82	33.06	11.88	29.86	103	275	P	V
		5689.6	55.45	-42.08	97.53	40.07	33.34	11.92	29.88	103	275	P	V
		5715.6	55.93	-53.64	109.57	40.39	33.49	11.94	29.89	103	275	P	V
		5725	56.27	-65.93	122.2	40.66	33.55	11.95	29.89	103	275	P	V
	*	5785	114.89	-	-	98.96	33.84	12	29.91	103	275	P	V
	*	5785	109.68	-	-	93.75	33.84	12	29.91	103	275	A	V
		5852	56.91	-60.73	117.64	40.7	34.01	12.14	29.94	103	275	P	V
		5863	56.59	-51.97	108.56	40.33	34.05	12.16	29.95	103	275	P	V
		5891.6	56.49	-36.39	92.88	40.05	34.17	12.23	29.96	103	275	P	V
		5942.8	55	-13.2	68.2	38.42	34.2	12.36	29.98	103	275	P	V
													V
													V



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 165 5825MHz	*	5825	111.9	-	-	95.81	33.95	12.07	29.93	100	307	P	H	
	*	5825	106.11	-	-	90.02	33.95	12.07	29.93	100	307	A	H	
		5852.2	71	-46.18	117.18	54.79	34.01	12.14	29.94	100	307	P	H	
		5861.6	68.79	-40.16	108.95	52.52	34.05	12.16	29.94	100	307	P	H	
		5877.6	62.33	-40.94	103.27	45.97	34.11	12.2	29.95	100	307	P	H	
		5926.2	55.61	-12.59	68.2	39.06	34.2	12.32	29.97	100	307	P	H	
														H
														H
	*	5825	115.93	-	-	99.84	33.95	12.07	29.93	109	277	P	V	
	*	5825	110.29	-	-	94.2	33.95	12.07	29.93	109	277	A	V	
		5851.6	75.41	-43.14	118.55	59.2	34.01	12.14	29.94	109	277	P	V	
		5855.8	73.67	-36.91	110.58	57.44	34.02	12.15	29.94	109	277	P	V	
		5881.4	63.05	-37.4	100.45	46.66	34.13	12.21	29.95	109	277	P	V	
		5936.6	56.49	-11.71	68.2	39.92	34.2	12.34	29.97	109	277	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. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 149 5745MHz		11490	51.95	-22.05	74	61.97	39	17.45	66.47	110	101	P	H	
		11490	42.44	-11.56	54	52.46	39	17.45	66.47	110	101	A	H	
		17235	48.41	-19.79	68.2	54.67	38.2	21.7	66.16	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11490	55.01	-18.99	74	65.03	39	17.45	66.47	100	248	P	V
			11490	45.84	-8.16	54	55.86	39	17.45	66.47	100	248	A	V
			17235	49.27	-18.93	68.2	55.53	38.2	21.7	66.16	-	-	P	V
														V
														V
														V
														V
													V	
													V	
													V	



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 157 5785MHz		11570	47.77	-26.23	74	57.83	38.86	17.51	66.43	-	-	P	H	
		17355	46.89	-21.31	68.2	52.61	38.52	21.76	66	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11570	56.28	-17.72	74	66.34	38.86	17.51	66.43	100	248	P	V
			11570	46.17	-7.83	54	56.23	38.86	17.51	66.43	100	248	A	V
			17355	47.01	-21.19	68.2	52.73	38.52	21.76	66	-	-	P	V
														V
														V
														V
														V
														V
													V	
													V	



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 165 5825MHz		11650	53.17	-20.83	74	63.38	38.6	17.57	66.38	100	100	P	H	
		11650	43.38	-10.62	54	53.59	38.6	17.57	66.38	100	100	A	H	
		17475	48.23	-19.97	68.2	53.48	38.75	21.83	65.83	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11650	57.33	-16.67	74	67.54	38.6	17.57	66.38	100	247	P	V
			11650	47.11	-6.89	54	57.32	38.6	17.57	66.38	100	247	A	V
			17475	48.93	-19.27	68.2	54.18	38.75	21.83	65.83	-	-	P	V
														V
														V
														V
														V
														V
														V
													V	
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>													





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

WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 149 5745MHz		5645.8	54.74	-13.46	68.2	39.63	33.08	11.89	29.86	100	59	P	H	
		5689.8	55.91	-41.77	97.68	40.53	33.34	11.92	29.88	100	59	P	H	
		5719.8	55.95	-54.79	110.74	40.37	33.52	11.95	29.89	100	59	P	H	
		5720.8	58.08	-54.54	112.62	42.5	33.52	11.95	29.89	100	59	P	H	
	*	5745	108.77	-	-	93.03	33.67	11.97	29.9	100	59	P	H	
	*	5745	101.92	-	-	86.18	33.67	11.97	29.9	100	59	A	H	
														H
														H
			5634.4	54.38	-13.82	68.2	39.31	33.04	11.88	29.85	100	275	P	V
			5683.6	56.57	-36.53	93.1	41.22	33.3	11.92	29.87	100	275	P	V
			5718.2	55.55	-54.75	110.3	39.99	33.51	11.94	29.89	100	275	P	V
			5720.2	56.34	-54.92	111.26	40.76	33.52	11.95	29.89	100	275	P	V
	*		5745	113.2	-	-	97.46	33.67	11.97	29.9	100	275	P	V
	*		5745	106.95	-	-	91.21	33.67	11.97	29.9	100	275	A	V
													V	
													V	



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5646.6	54.77	-13.43	68.2	39.65	33.09	11.89	29.86	100	306	P	H
		5694	54.9	-45.88	100.78	39.49	33.36	11.93	29.88	100	306	P	H
		5705.2	55.21	-51.45	106.66	39.73	33.43	11.93	29.88	100	306	P	H
		5721.4	54.68	-59.31	113.99	39.09	33.53	11.95	29.89	100	306	P	H
	*	5785	110.63	-	-	94.7	33.84	12	29.91	100	306	P	H
	*	5785	102.98	-	-	87.05	33.84	12	29.91	100	306	A	H
		5852	56.45	-61.19	117.64	40.24	34.01	12.14	29.94	100	306	P	H
		5872.8	56.57	-49.25	105.82	40.24	34.09	12.19	29.95	100	306	P	H
		5894.4	56.95	-33.86	90.81	40.49	34.18	12.24	29.96	100	306	P	H
		5934.2	55.54	-12.66	68.2	38.97	34.2	12.34	29.97	100	306	P	H
<b>802.11ax</b>													H
<b>HE20 Full</b>													H
<b>CH 157</b>		5613.6	54.29	-13.91	68.2	39.33	32.95	11.86	29.85	102	277	P	V
<b>5785MHz</b>		5682.6	54.86	-37.5	92.36	39.51	33.3	11.92	29.87	102	277	P	V
		5708.6	55.44	-52.17	107.61	39.93	33.45	11.94	29.88	102	277	P	V
		5725	55.68	-66.52	122.2	40.07	33.55	11.95	29.89	102	277	P	V
	*	5785	113.57	-	-	97.64	33.84	12	29.91	102	277	P	V
	*	5785	107.7	-	-	91.77	33.84	12	29.91	102	277	A	V
		5850.2	58.37	-63.37	121.74	42.18	34	12.13	29.94	102	277	P	V
		5871.6	56.85	-49.3	106.15	40.52	34.09	12.19	29.95	102	277	P	V
		5922.2	56.18	-14.08	70.26	39.64	34.2	12.31	29.97	102	277	P	V
		5929.8	56.44	-11.76	68.2	39.88	34.2	12.33	29.97	102	277	P	V
													V
													V



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 165 5825MHz	*	5825	111.29	-	-	95.2	33.95	12.07	29.93	100	307	P	H	
	*	5825	104.95	-	-	88.86	33.95	12.07	29.93	100	307	A	H	
		5853	72.92	-42.44	115.36	56.71	34.01	12.14	29.94	100	307	P	H	
		5857	71.22	-39.02	110.24	54.98	34.03	12.15	29.94	100	307	P	H	
		5876.8	60.53	-43.33	103.86	44.17	34.11	12.2	29.95	100	307	P	H	
		5945.4	55.68	-12.52	68.2	39.09	34.2	12.37	29.98	100	307	P	H	
														H
														H
	*	5825	114.01	-	-	97.92	33.95	12.07	29.93	100	263	P	V	
	*	5825	107.55	-	-	91.46	33.95	12.07	29.93	100	263	A	V	
		5851.4	76.7	-42.31	119.01	60.49	34.01	12.14	29.94	100	263	P	V	
		5856	73.01	-37.51	110.52	56.78	34.02	12.15	29.94	100	263	P	V	
		5877.4	62.56	-40.86	103.42	46.2	34.11	12.2	29.95	100	263	P	V	
		5944.6	56.26	-11.94	68.2	39.68	34.2	12.36	29.98	100	263	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 Full (Harmonic @ 3m)

WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 149 5745MHz		11490	49.51	-24.49	74	59.53	39	17.45	66.47	100	102	P	H	
		11490	40.97	-13.03	54	50.99	39	17.45	66.47	100	102	A	H	
		17235	48.33	-19.87	68.2	54.59	38.2	21.7	66.16	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11490	53.37	-20.63	74	63.39	39	17.45	66.47	100	251	P	V
			11490	43.6	-10.4	54	53.62	39	17.45	66.47	100	251	A	V
		17235	48.33	-19.87	68.2	54.59	38.2	21.7	66.16	-	-	P	V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11570	46.64	-27.36	74	56.7	38.86	17.51	66.43	-	-	P	H
		17355	46.64	-21.56	68.2	52.36	38.52	21.76	66	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
HE20 Full													H
CH 157		11570	53.64	-20.36	74	63.7	38.86	17.51	66.43	101	248	P	V
5785MHz		11570	44.15	-9.85	54	54.21	38.86	17.51	66.43	101	248	A	V
		17355	46.36	-21.84	68.2	52.08	38.52	21.76	66	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 165 5825MHz		11650	50.97	-23.03	74	61.18	38.6	17.57	66.38	112	97	P	H	
		11650	42.23	-11.77	54	52.44	38.6	17.57	66.38	112	97	A	H	
		17475	47.99	-20.21	68.2	53.24	38.75	21.83	65.83	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11650	54.15	-19.85	74	64.36	38.6	17.57	66.38	100	247	P	V
			11650	45.27	-8.73	54	55.48	38.6	17.57	66.38	100	247	A	V
			17475	48.72	-19.48	68.2	53.97	38.75	21.83	65.83	-	-	P	V
														V
														V
														V
														V
														V
													V	
													V	
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>													



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

WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Partial 106/53 CH 149 5745MHz		5620.8	55.85	-12.35	68.2	40.85	32.98	11.87	29.85	100	117	P	H	
		5673.6	55.81	-29.89	85.7	40.53	33.24	11.91	29.87	100	117	P	H	
		5718.4	56.8	-53.55	110.35	41.24	33.51	11.94	29.89	100	117	P	H	
		5724.2	61.05	-59.33	120.38	45.44	33.55	11.95	29.89	100	117	P	H	
	*	5745	114.69	-	-	98.95	33.67	11.97	29.9	100	117	P	H	
	*	5745	105.55	-	-	89.81	33.67	11.97	29.9	100	117	A	H	
														H
														H
			5626.2	55.17	-13.03	68.2	40.15	33	11.87	29.85	400	20	P	V
			5686.8	55.17	-40.29	95.46	39.8	33.32	11.92	29.87	400	20	P	V
			5715	54.88	-54.52	109.4	39.34	33.49	11.94	29.89	400	20	P	V
			5724.4	58.43	-62.4	120.83	42.82	33.55	11.95	29.89	400	20	P	V
		*	5745	108.12	-	-	92.38	33.67	11.97	29.9	400	20	P	V
		*	5745	101.41	-	-	85.67	33.67	11.97	29.9	400	20	A	V
													V	
													V	



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Partial 106/54 CH 165 5825MHz	*	5825	113.47	-	-	97.38	33.95	12.07	29.93	100	117	P	H	
	*	5825	107.11	-	-	91.02	33.95	12.07	29.93	100	117	A	H	
		5851.6	69.37	-49.18	118.55	53.16	34.01	12.14	29.94	100	117	P	H	
		5874.6	58.63	-46.68	105.31	42.29	34.1	12.19	29.95	100	117	P	H	
		5906	58.02	-24.2	82.22	41.51	34.2	12.27	29.96	100	117	P	H	
		5945.4	57.84	-10.36	68.2	41.25	34.2	12.37	29.98	100	117	P	H	
														H
														H
	*	5825	109.25	-	-	93.16	33.95	12.07	29.93	400	337	P	V	
	*	5825	101.47	-	-	85.38	33.95	12.07	29.93	400	337	A	V	
		5853.6	56.96	-57.03	113.99	40.75	34.01	12.14	29.94	400	337	P	V	
		5860	57.48	-51.92	109.4	41.22	34.04	12.16	29.94	400	337	P	V	
		5908.4	57.52	-22.93	80.45	41	34.2	12.28	29.96	400	337	P	V	
		5949.2	56.83	-11.37	68.2	40.23	34.2	12.38	29.98	400	337	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\_Full (Band Edge @ 3m)**

WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5614.4	54.71	-13.49	68.2	39.74	32.96	11.86	29.85	100	261	P	H
		5685.8	60.73	-33.99	94.72	45.37	33.31	11.92	29.87	100	261	P	H
		5718.6	63.84	-46.57	110.41	48.28	33.51	11.94	29.89	100	261	P	H
		5723.4	62.79	-55.76	118.55	47.19	33.54	11.95	29.89	100	261	P	H
	*	5755	109.88	-	-	94.09	33.72	11.97	29.9	100	261	P	H
	*	5755	103.9	-	-	88.11	33.72	11.97	29.9	100	261	A	H
		5853.2	56.33	-58.57	114.9	40.12	34.01	12.14	29.94	100	261	P	H
		5864.6	56.65	-51.46	108.11	40.37	34.06	12.17	29.95	100	261	P	H
		5887	56.5	-39.79	96.29	40.08	34.15	12.22	29.95	100	261	P	H
		5948.4	56.48	-11.72	68.2	39.89	34.2	12.37	29.98	100	261	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 151</b>		5601.4	55.42	-12.78	68.2	40.5	32.91	11.85	29.84	399	18	P	V
<b>5755MHz</b>		5673.2	55.61	-29.8	85.41	40.33	33.24	11.91	29.87	399	18	P	V
		5718.8	59.58	-50.88	110.46	44.01	33.51	11.95	29.89	399	18	P	V
		5723.2	58.27	-59.83	118.1	42.67	33.54	11.95	29.89	399	18	P	V
	*	5755	106.67	-	-	90.88	33.72	11.97	29.9	399	18	P	V
	*	5755	100.47	-	-	84.68	33.72	11.97	29.9	399	18	A	V
		5852.6	55.47	-60.8	116.27	39.26	34.01	12.14	29.94	399	18	P	V
		5859.6	56.7	-52.81	109.51	40.44	34.04	12.16	29.94	399	18	P	V
		5922.6	57.32	-12.65	69.97	40.78	34.2	12.31	29.97	399	18	P	V
		5947.2	57.11	-11.09	68.2	40.52	34.2	12.37	29.98	399	18	P	V
													V
													V



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5618.2	55.56	-12.64	68.2	40.58	32.97	11.86	29.85	100	263	P	H
		5699.2	56.46	-48.15	104.61	41.01	33.4	11.93	29.88	100	263	P	H
		5711.8	58.48	-50.03	108.51	42.95	33.47	11.94	29.88	100	263	P	H
		5720.2	58.62	-52.64	111.26	43.04	33.52	11.95	29.89	100	263	P	H
	*	5795	111.37	-	-	95.4	33.88	12.01	29.92	100	263	P	H
	*	5795	104.36	-	-	88.39	33.88	12.01	29.92	100	263	A	H
		5850	61.43	-60.77	122.2	45.24	34	12.13	29.94	100	263	P	H
		5871.6	60.88	-45.27	106.15	44.55	34.09	12.19	29.95	100	263	P	H
		5875.4	57.94	-46.96	104.9	41.6	34.1	12.19	29.95	100	263	P	H
		5925.8	56.87	-11.33	68.2	40.32	34.2	12.32	29.97	100	263	P	H
802.11ax													H
HE40 Full													H
CH 159		5632	55.37	-12.83	68.2	40.31	33.03	11.88	29.85	100	57	P	V
5795MHz		5694	55.65	-45.13	100.78	40.24	33.36	11.93	29.88	100	57	P	V
		5703	55.46	-50.58	106.04	39.99	33.42	11.93	29.88	100	57	P	V
		5724.8	54.83	-66.91	121.74	39.22	33.55	11.95	29.89	100	57	P	V
	*	5795	105.26	-	-	89.29	33.88	12.01	29.92	100	57	P	V
	*	5795	98.69	-	-	82.72	33.88	12.01	29.92	100	57	A	V
		5851.6	56.91	-61.64	118.55	40.7	34.01	12.14	29.94	100	57	P	V
		5868.8	56.07	-50.86	106.93	39.76	34.08	12.18	29.95	100	57	P	V
		5897.6	56.11	-32.33	88.44	39.63	34.19	12.25	29.96	100	57	P	V
		5933.2	55.46	-12.74	68.2	38.89	34.2	12.34	29.97	100	57	P	V
		5632	55.37	-12.83	68.2	40.31	33.03	11.88	29.85	100	57	P	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. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
<b>802.11ax HE40 Full CH 151 5755MHz</b>		11510	47.01	-26.99	74	57.03	38.98	17.47	66.47	-	-	P	H	
		17265	46.32	-21.88	68.2	52.5	38.23	21.71	66.12	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11510	51.57	-22.43	74	61.59	38.98	17.47	66.47	100	250	P	V
			11510	42.55	-11.45	54	52.57	38.98	17.47	66.47	100	250	A	V
			17265	47	-21.2	68.2	53.18	38.23	21.71	66.12	-	-	P	V
														V
														V
														V
													V	
													V	
													V	
													V	
													V	



WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE40 Full CH 159 5795MHz		11590	47.31	-26.69	74	57.38	38.82	17.53	66.42	-	-	P	H	
		17385	47.11	-21.09	68.2	52.65	38.64	21.78	65.96	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
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													H	
													H	
													H	
			11590	52.84	-21.16	74	62.91	38.82	17.53	66.42	100	249	P	V
			11590	42.42	-11.58	54	52.49	38.82	17.53	66.42	100	249	A	V
		17385	47.45	-20.75	68.2	52.99	38.64	21.78	65.96	-	-	P	V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>													



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

WIFI Ant. 5+18	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5629.6	60.25	-7.95	68.2	45.21	33.02	11.87	29.85	100	263	P	H
		5699.8	71.35	-33.7	105.05	55.9	33.4	11.93	29.88	100	263	P	H
		5719.6	76.2	-34.49	110.69	60.62	33.52	11.95	29.89	100	263	P	H
		5722.4	74.66	-41.61	116.27	59.07	33.53	11.95	29.89	100	263	P	H
	*	5775	107.81	-	-	91.93	33.8	11.99	29.91	100	263	P	H
	*	5775	100.41	-	-	84.53	33.8	11.99	29.91	100	263	A	H
		5854.4	73.01	-39.16	112.17	56.79	34.02	12.14	29.94	100	263	P	H
		5856.6	68.54	-41.81	110.35	52.3	34.03	12.15	29.94	100	263	P	H
		5876.4	64.52	-39.64	104.16	48.16	34.11	12.2	29.95	100	263	P	H
		5931.2	56.33	-11.87	68.2	39.77	34.2	12.33	29.97	100	263	P	H
<b>802.11ax</b>													H
<b>HE80 Full</b>													H
<b>CH 155</b>		5645	57.91	-10.29	68.2	42.8	33.08	11.89	29.86	379	31	P	V
<b>5775MHz</b>		5700	62.83	-42.37	105.2	47.38	33.4	11.93	29.88	379	31	P	V
		5715.2	68.11	-41.35	109.46	52.57	33.49	11.94	29.89	379	31	P	V
		5722.6	68.83	-47.9	116.73	53.23	33.54	11.95	29.89	379	31	P	V
	*	5775	101.65	-	-	85.77	33.8	11.99	29.91	379	31	P	V
	*	5775	95.88	-	-	80	33.8	11.99	29.91	379	31	A	V
		5853.4	62.91	-51.54	114.45	46.7	34.01	12.14	29.94	379	31	P	V
		5869.8	64.65	-42	106.65	48.34	34.08	12.18	29.95	379	31	P	V
		5880	58.29	-43.2	101.49	41.91	34.12	12.21	29.95	379	31	P	V
		5946	56.16	-12.04	68.2	39.57	34.2	12.37	29.98	379	31	P	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





Emission above 18GHz  
WIFI 802.11a (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a SHF		39650	46.71	-27.29	74	59.15	44.44	-0.56	56.32	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
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													H
													H
			39468	45.37	-28.63	74	58.09	44.49	-0.69	56.52	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Emission below 1GHz  
5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11a LF		30	21.88	-18.12	40	29.21	24.4	0.71	32.44	-	-	P	H	
		170.94	21.93	-21.57	43.5	36.78	15.69	1.84	32.38	-	-	P	H	
		253.56	24.17	-21.83	46	35.3	18.96	2.33	32.42	-	-	P	H	
		302.8	25.28	-20.72	46	35.87	19.23	2.59	32.41	-	-	P	H	
		636.7	28.36	-17.64	46	30.79	26.4	3.82	32.65	-	-	P	H	
		941.2	33.35	-12.65	46	29.77	30.44	4.73	31.59	-	-	P	H	
														H
														H
														H
														H
														H
														H
			54.03	22.06	-17.94	40	40.74	12.71	1.04	32.43	-	-	P	V
			163.65	20.34	-23.16	43.5	34.7	16.26	1.79	32.41	-	-	P	V
			255.72	21.12	-24.88	46	31.9	19.3	2.34	32.42	-	-	P	V
			437.2	26.86	-19.14	46	33.28	22.95	3.14	32.51	-	-	P	V
			740.3	29.63	-16.37	46	29.97	28.01	4.21	32.56	-	-	P	V
			958	33.64	-12.36	46	29.38	30.91	4.79	31.44	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	

**Remark**

- No other spurious found.
- All results are PASS against limit line.
- The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.





**Note symbol**

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



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		( MHz )	( dBµV/m )	( dB )	( dBµV/m )	( dBµV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
5+18													
802.11a CH 149 5745MHz		5650	55.45	-12.75	68.2	54.51	32.22	4.58	35.86	103	308	P	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. Margin (dB) = Level(dBµV/m) – Limit Line(dBµV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBµV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBµV) – 35.86 (dB)  
= 55.45 (dBµV/m)
2. Margin(dB)  
= Level(dBµV/m) – Limit Line(dBµV/m)  
= 55.45(dBµV/m) – 68.2(dBµV/m)  
= -12.75 (dB)

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



## Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jack tsai, Gary Guo and Steven Wu	Temperature :	20~25°C
		Relative Humidity :	50~65%



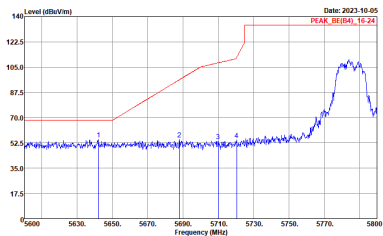
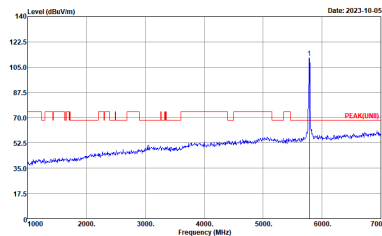
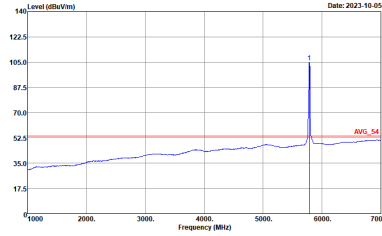
**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH149 5745MHz</b>	
<b>5+18</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<b>Avg</b>	<b>Left blank</b>	<p>Site : 03CH16-HY          Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL          : RBW:1000.000KHz VBW:0.750KHz SWT:Auto</p>

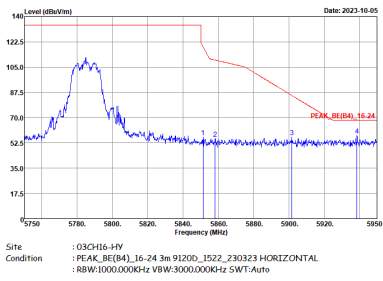


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_REF(84)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.750kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE[84]_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK[LINE1] 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:0.750kHz SWT:Auto</p>



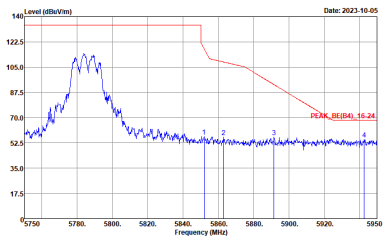
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-3FY Condition : PEAK_BE[04]_16-24 3m 91200_1522_230323 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_REF(84)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.750kHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+18	Vertical	Fundamental
Peak	 <p>Site : 03CH16-3FY Condition : PEAK_BE(84)_16-24 3m 91200_1522_230323 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



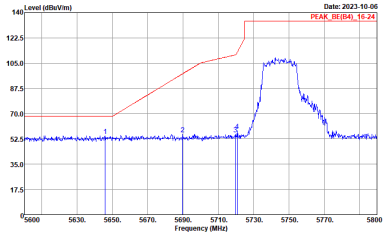
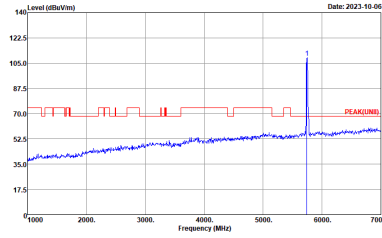
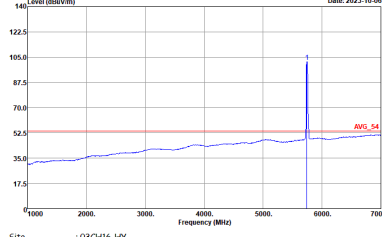
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
5+18	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE[84], 16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK[LINE1] 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.750kHz SWT:Auto</p>



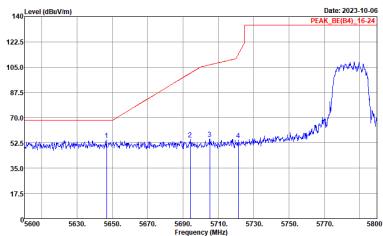
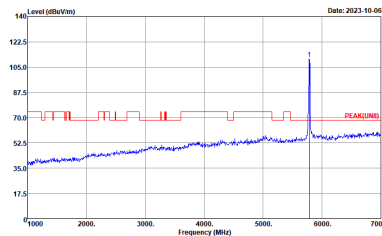
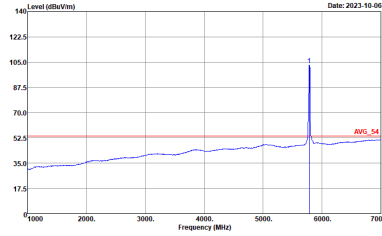
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+18	Horizontal	Fundamental
<p align="center"><b>Peak</b></p>	 <p>Date: 2023-10-06 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2023-10-06 PEAK(UNI)</p> <p>Site : 03CH16-HY Condition : PEAK(UNI) 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p align="center"><b>Avg</b></p>	<p align="center"><b>Left blank</b></p>  <p>Date: 2023-10-06 AVG_54</p> <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	

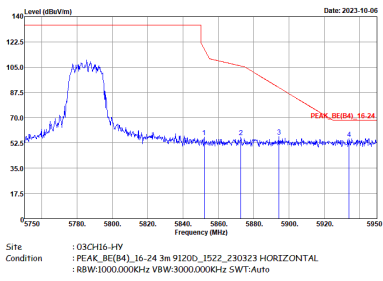


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_REF(84)_16.24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE[84], 16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK[LINE1] 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



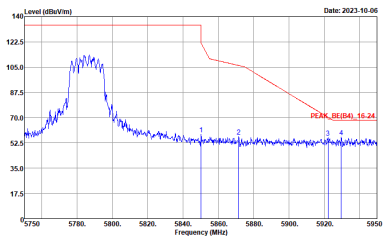
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-3FY Condition : PEAK_BE(04)_16-24 3m 91200_1522_230323 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



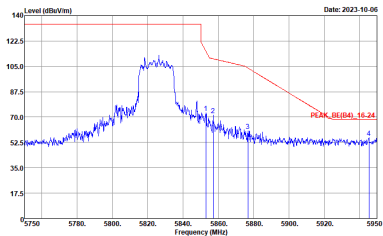
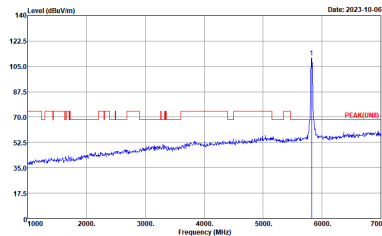
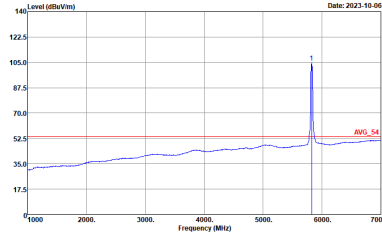
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_REF(84)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+18	Vertical	Fundamental
Peak	 <p>Site : 03CH16-3FY Condition : PEAK_BE(84)_16-24 3m 91200_1522_230323 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



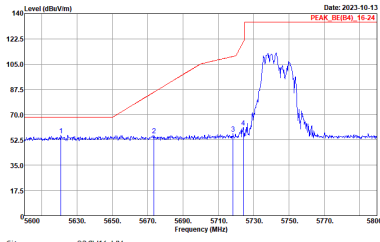
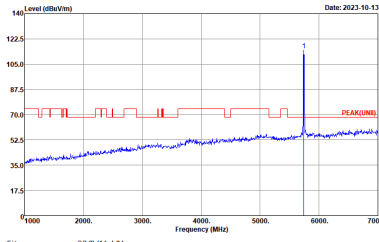
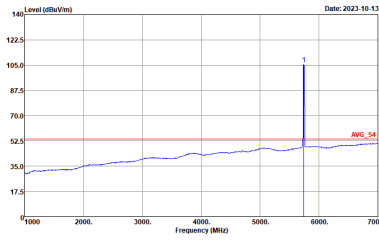
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE[84], 16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE1) 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



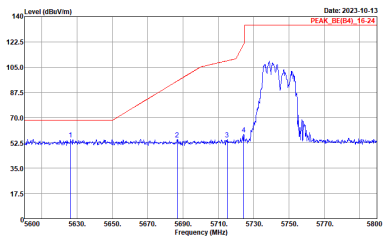
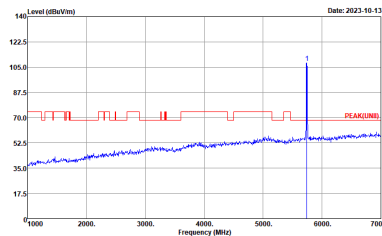
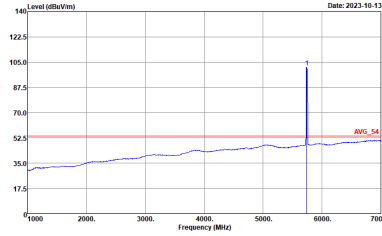
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_8E(84)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



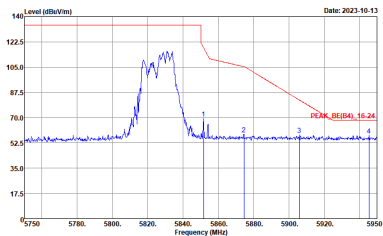
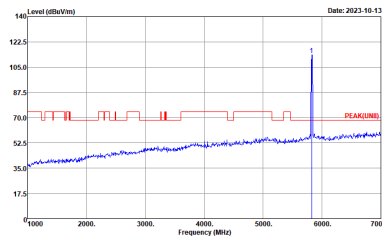
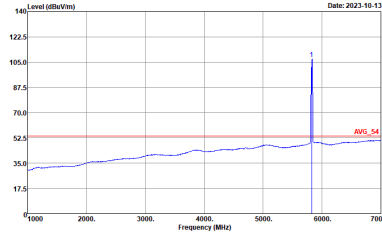
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522_230323 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY            Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL            : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
5+18	Vertical	Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 5745 MHz. The y-axis ranges from 17.5 to 140 dBm/100kHz, and the x-axis ranges from 5600 to 5800 MHz. A red line indicates the peak level at approximately 125 dBm/100kHz. The plot is dated 2023-10-13.</p> <p>Site : 03CH16-HY Condition : PEAK_BE[84], 16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 5745 MHz. The y-axis ranges from 17.5 to 140 dBm/100kHz, and the x-axis ranges from 4000 to 7000 MHz. A red line indicates the peak level at approximately 105 dBm/100kHz. The plot is dated 2023-10-13.</p> <p>Site : 03CH16-HY Condition : PEAK[LINE1] 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 17.5 to 140 dBm/100kHz, and the x-axis ranges from 4000 to 7000 MHz. A red line indicates the average level at approximately 55 dBm/100kHz. The plot is dated 2023-10-13.</p> <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



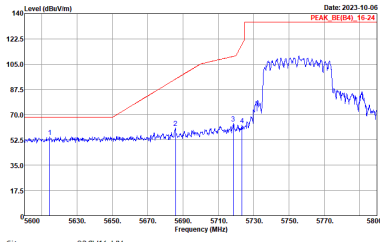
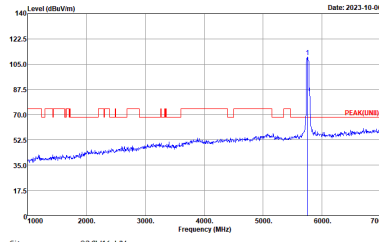
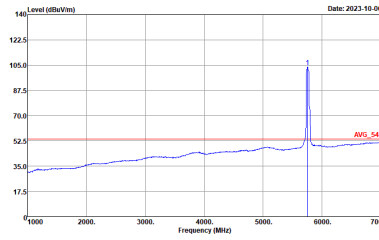
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE[84]_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK[LINE1] 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE[84]_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE1) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</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	
5+18	Horizontal	Fundamental
Peak	 <p>Date: 2023-10-06 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2023-10-06</p> <p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Date: 2023-10-06</p> <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+18	Horizontal	Fundamental
Peak	<p>Site : 03CH16-3FY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank

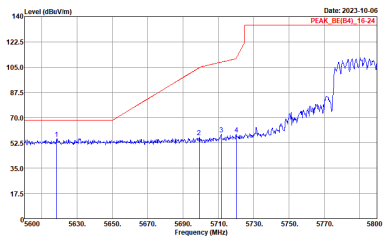
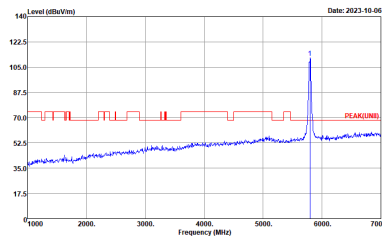
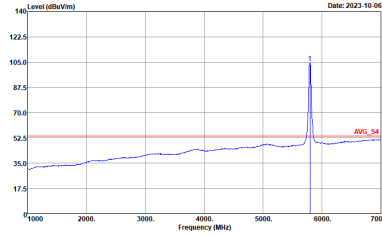


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:2000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-3FY Condition : PEAK_BE[84]_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE[84], 16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE1) 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:2000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
5+18	Horizontal	Fundamental
Peak	<p>Site : 03CH16-3FY Condition : PEAK_BE[84], 16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



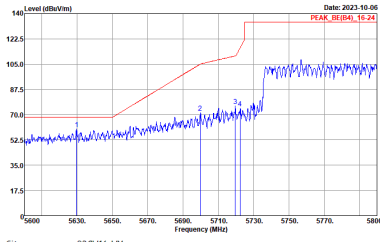
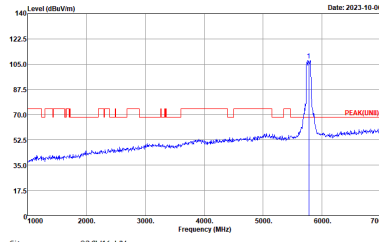
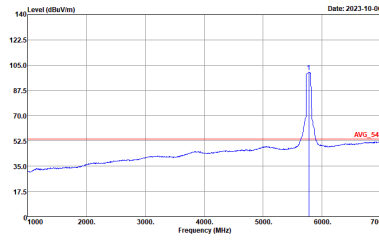
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:2000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-3FY Condition : PEAK_BE[84], 16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank

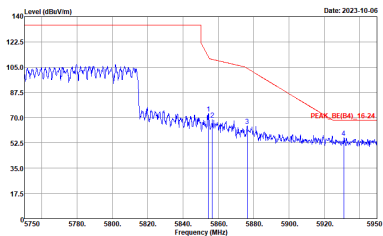


**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522_230323 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY            Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL            : RBW:1000.000KHz VBW:3.600KHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+18	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-3FY Condition : PEAK_BE(84)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_REF(84)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3.600kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+18	Vertical	Fundamental
Peak	<p>Site : 03CH16-3FY Condition : PEAK_BE[84]_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



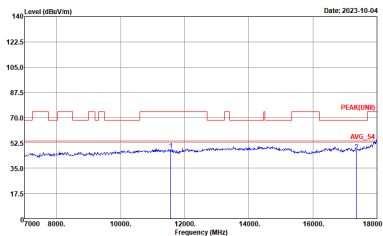
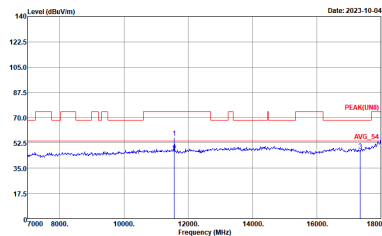
**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11a CH149 5745MHz</b>	
<b>5+18</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
5+18	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
5+18	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
5+18	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
5+18	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 VERTICAL</p>





WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
5+18	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



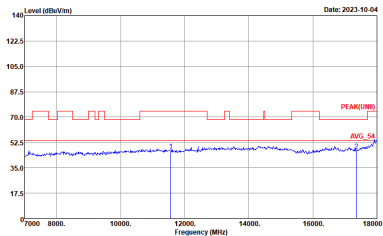
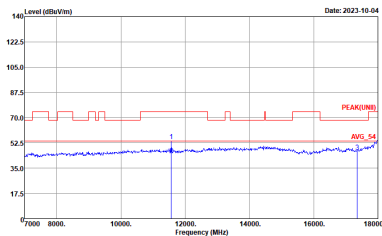
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Full (Harmonic @ 3m)**

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+18	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL :</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL :</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+18	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>

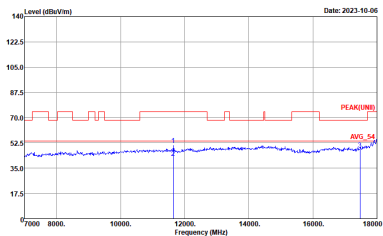
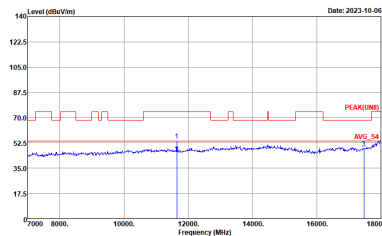


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+18	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+18	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
5+18	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
5+18	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>

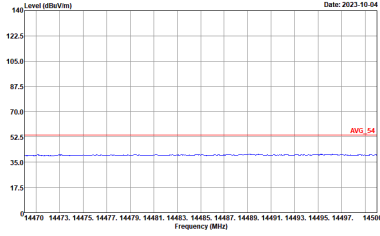
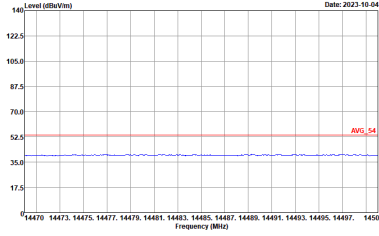
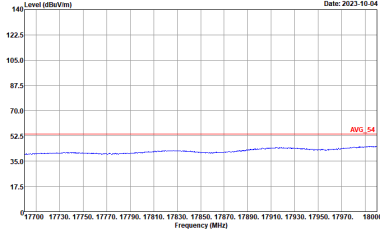
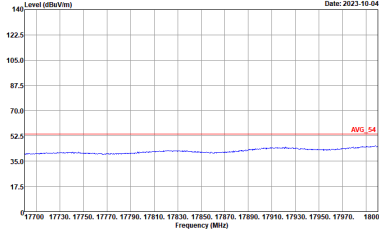


**Band 4 5725~5850MHz  
WIFI 802.11ax HE40 Full (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH151 5755MHz</b>	
<b>5+18</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL :</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL :</p>





WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+18	Horizontal	Vertical
Peak	 <p>Level (dBm/100MHz) vs Frequency (MHz) for Horizontal orientation. The plot shows a blue line representing the spectrum and a red horizontal line labeled 'AVG_54' at approximately 52.5 dBm/100MHz. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 17.5 to 140 dBm/100MHz.</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Level (dBm/100MHz) vs Frequency (MHz) for Vertical orientation. The plot shows a blue line representing the spectrum and a red horizontal line labeled 'AVG_54' at approximately 52.5 dBm/100MHz. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 17.5 to 140 dBm/100MHz.</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	 <p>Level (dBm/100MHz) vs Frequency (MHz) for Horizontal orientation. The plot shows a blue line representing the spectrum and a red horizontal line labeled 'AVG_54' at approximately 52.5 dBm/100MHz. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 17.5 to 140 dBm/100MHz.</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Level (dBm/100MHz) vs Frequency (MHz) for Vertical orientation. The plot shows a blue line representing the spectrum and a red horizontal line labeled 'AVG_54' at approximately 52.5 dBm/100MHz. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 17.5 to 140 dBm/100MHz.</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH159 5795MHz</b>	
<b>5+18</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK[UNIT] 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
5+18	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



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

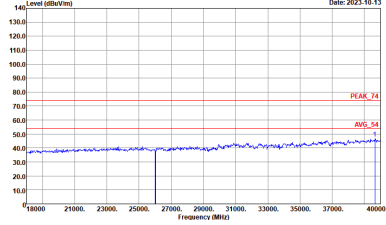
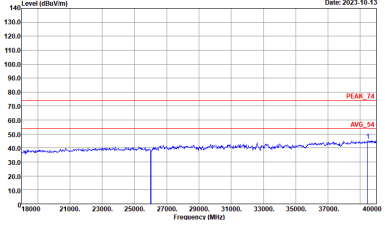
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+18	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL :</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL :</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+18	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>

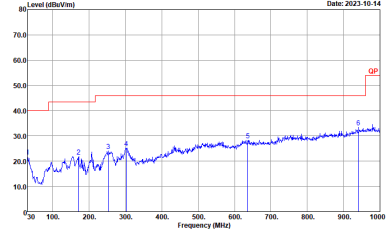
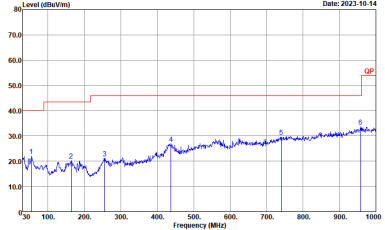


Emission above 18GHz  
5GHz WIFI 802.11a (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11a SHF	
5+18	Horizontal	Vertical
Peak Avg.		



Emission below 1GHz  
5GHz WIFI 802.11a (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11a LF	
5+18	Horizontal	Vertical
QP / Peak	 <p>Site : 03CH16-HY Condition : QP 3m BIL06_47020_231007_H HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : QP 3m BIL06_47020_231007_H VERTICAL</p>



## Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
5+18	802.11a	97.21	1395	0.72	750Hz
5+18	5GHz 802.11ax HE20 Full RU	95.76	1017	0.98	1kHz
5+18	5GHz 802.11ax HE20 106 RU	98.00	-	-	10Hz
5+18	5GHz 802.11ax HE40 Full RU	92.10	536	1.87	2KHz
5+18	5GHz 802.11ax HE80 Full RU	87.13	291	3.44	3.6KHz

### MIMO <Ant. 5+18>

