



# FCC RADIO TEST REPORT

FCC ID : UZ7PS30JP  
Equipment : Personal Shopper  
Brand Name : ZEBRA  
Model Name : PS30JP  
Applicant : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742  
Manufacturer : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742  
Standard : FCC Part 15 Subpart E §15.407

The product was received on Dec. 22, 2023 and testing was performed from Dec. 28, 2023 to Feb. 01, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

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



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### History of this test report

Report No.	Version	Description	Issue Date
FR3D0512F	01	Initial issue of report	Feb. 08, 2024
FR3D0512F	02	Revise Product Specification of Equipment Under Test and Antenna Directional Gain This report is an updated version, replacing the report issued on Feb. 08, 2024	Feb. 20, 2024



### 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	1.30 dB under the limit at 5643.25 MHz
3.5	15.207	AC Conducted Emission	Pass	6.55 dB under the limit at 0.56 MHz
3.6	15.203	Antenna Requirement	Pass	-

**Conformity Assessment Condition:**

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

**Disclaimer:**

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

**Reviewed by: Keven Cheng**

**Report Producer: Rachel Hsieh**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Personal Shopper
Brand Name	ZEBRA
Model Name	PS30JP
FCC ID	UZ7PS30JP
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	EV2
SW Version	13-13-11.00-TG-U00-PRD-NEM-04
FW Version	FUSION_QA_6_1.1.0.004_T
MFD	13DEC23
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

Specification of Accessories				
Battery 1	Brand Name	Zebra	Part Number	BT-000355-0020
Battery 2	Brand Name	Zebra	Part Number	BT-000355-5020

Supported Unit Used in Test Configuration and System				
1-slot cradle	Brand Name	Zebra	Part Number	CRD-MC18-1SLOT-01
Adapter	Brand Name	Zebra	Part Number	PWR-BGA12V108W0WW
Programming USB cable	Brand Name	Zebra	Part Number	CBL-PS30-USBCHG-01
Soft Holster	Brand Name	Zebra	Part Number	SG-PS20-SFTHLT-01



## 1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard										
<b>Tx/Rx Frequency Range</b>	5745 MHz ~ 5825 MHz									
<b>Maximum Output Power to Antenna</b>	<b>MIMO &lt;Ant. 0+1&gt;</b> 802.11a: 24.41 dBm / 0.2761 W 802.11n HT20: 24.16 dBm / 0.2606 W 802.11n HT40: 24.16 dBm / 0.2606 W 802.11ac VHT20: 24.26 dBm / 0.2667 W 802.11ac VHT40: 24.26 dBm / 0.2667 W 802.11ac VHT80: 24.26 dBm / 0.2667 W 802.11ax HE20: 24.36 dBm / 0.2729 W 802.11ax HE40: 24.36 dBm / 0.2729 W 802.11ax HE80: 24.36 dBm / 0.2729 W									
<b>99% Occupied Bandwidth</b>	<b>MIMO &lt;Ant. 0&gt;</b> 802.11a: 16.33 MHz 802.11ac VHT20: 17.53 MHz 802.11ac VHT40: 36.06 MHz 802.11ac VHT80: 74.93 MHz 802.11ax HE20: 18.93 MHz 802.11ax HE40: 37.86 MHz 802.11ax HE80: 76.72 MHz <b>MIMO &lt;Ant. 1&gt;</b> 802.11a: 16.33 MHz 802.11ac VHT20: 17.53 MHz 802.11ac VHT40: 36.16 MHz 802.11ac VHT80: 74.93 MHz 802.11ax HE20: 18.93 MHz 802.11ax HE40: 37.86 MHz 802.11ax HE80: 76.96 MHz									
<b>Antenna Type / Gain</b>	<b>&lt;Ant. 0&gt;</b> : IFA Antenna with gain 3.1 dBi <b>&lt;Ant. 1&gt;</b> : IFA Antenna with gain 3.7 dBi									
<b>Type of Modulation</b>	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)									
<b>Antenna Function Description</b>	<table border="1"> <thead> <tr> <th></th> <th>Ant. 0</th> <th>Ant. 1</th> </tr> </thead> <tbody> <tr> <td>802.11a/n/ac/ax MIMO</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11ax TXBF</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 0	Ant. 1	802.11a/n/ac/ax MIMO	V	V	802.11ax TXBF	V	V
	Ant. 0	Ant. 1								
802.11a/n/ac/ax MIMO	V	V								
802.11ax TXBF	V	V								

**Remark:**

- MIMO Ant. 0+1 Directional Gain is a calculated result from MIMO Ant. 0 and MIMO Ant. 1. The formula used in calculation is documented in section 1.2.1.
- Power of MIMO Ant. 0 + Ant. 1 is a calculated result from sum of the power MIMO Ant. 0 and MIMO Ant. 1.
- 802.11ax Support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is less than CDD mode 3dbm, so CDD mode cover Tx Beamforming mode.
- The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

### 1.2.1 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:

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

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

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

			<b>DG</b>	<b>DG</b>	<b>Power</b>	<b>PSD</b>
			<b>for</b>	<b>for</b>	<b>Limit</b>	<b>Limit</b>
	<b>Ant 0</b>	<b>Ant 1</b>	<b>Power</b>	<b>PSD</b>	<b>Reduction</b>	<b>Reduction</b>
	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dB)</b>	<b>(dB)</b>
<b>Band IV</b>	3.10	3.70	3.70	6.42	0.00	0.42

Calculation example:

If a device has two antenna,  $G_{ANT1}= 3.1\text{dBi}$ ;  $G_{ANT2}= 3.7\text{dBi}$

Directional gain of power measurement =  $\max(3.1, 3.7) + 0 = 3.7 \text{ dBi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[ 10^{(3.1 \text{ dBi} / 20)} + 10^{(3.7 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

$$= 6.42 \text{ dBi}$$

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

**<For TXBF Modes>**

The EUT supports beamforming modes, then

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

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

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.

The directional gain “DG” is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 0	Ant 1	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
<b>Band IV</b>	3.10	3.70	6.42	6.42	0.42	0.42

Calculation example:

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[ 10^{(3.10 \text{ dBi} / 20)} + 10^{(3.70 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

= 6.42 dBi

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





### 1.3 Modification of EUT

No modifications made to the EUT during the testing.

### 1.4 Testing Location

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

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

FCC designation No.: TW3786

### 1.5 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 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 mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac 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 VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	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	
AC Conducted Emission	Mode 1: WLAN (5GHz) Link + Bluetooth Link + NFC Read + Scanner + Adapter + Battery 1 + Programming USB cable + 1-slot cradle + Fast Charge Mode @1.5AMP
<b>Remark:</b> For Radiated Test Cases, the tests were performed with Battery 1.	

**MIMO <Ant. 0+1>**

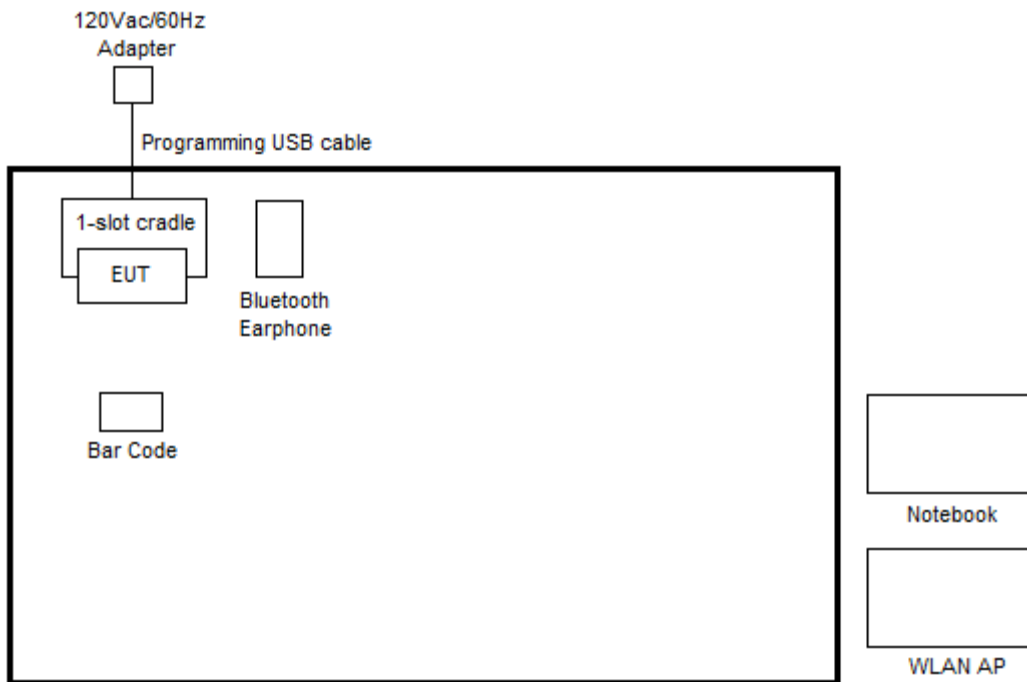
Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

Ch. #		Band IV : 5725-5850 MHz	
		802.11ac VHT80	
L	Low	-	
M	Middle	155	
H	High	-	

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

## 2.3 Connection Diagram of Test System

**<AC Conducted Emission Mode>**



<WLAN Tx Mode>



## 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.	Bar Code	N/A	N/A	N/A	N/A	N/A

## 2.5 EUT Operation Test Setup

The RF test items, utility “QRCT Ver. 4.0.00206.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



## 2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

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

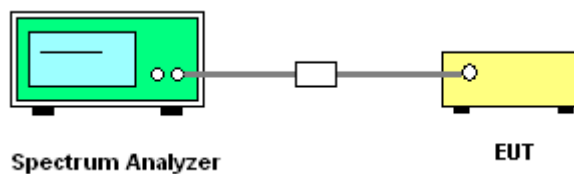
##### 3.1.2 Measuring Instruments

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.

## 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.

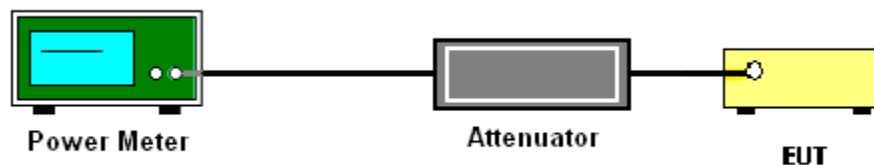
### 3.2.3 Test Procedures

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 #

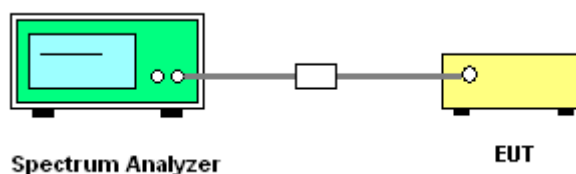
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- 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  $10 \log(500 \text{ kHz}/\text{RBW})$  to the measured result, whereas RBW (<500 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.



### 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.

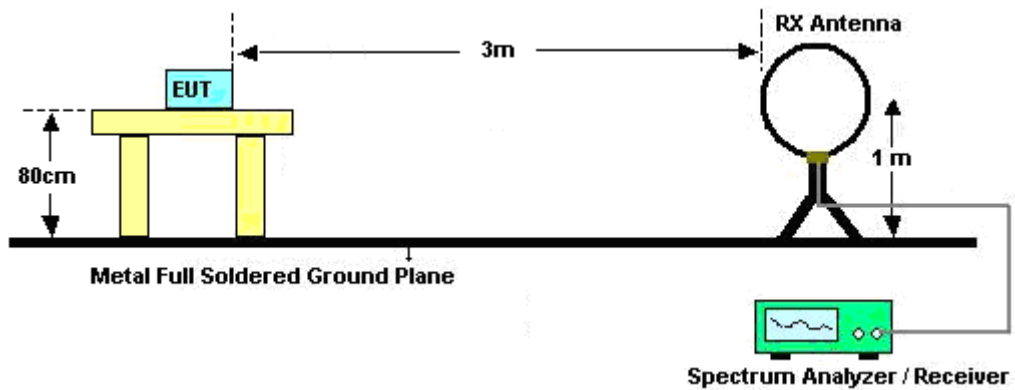
### 3.4.3 Test Procedures

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.

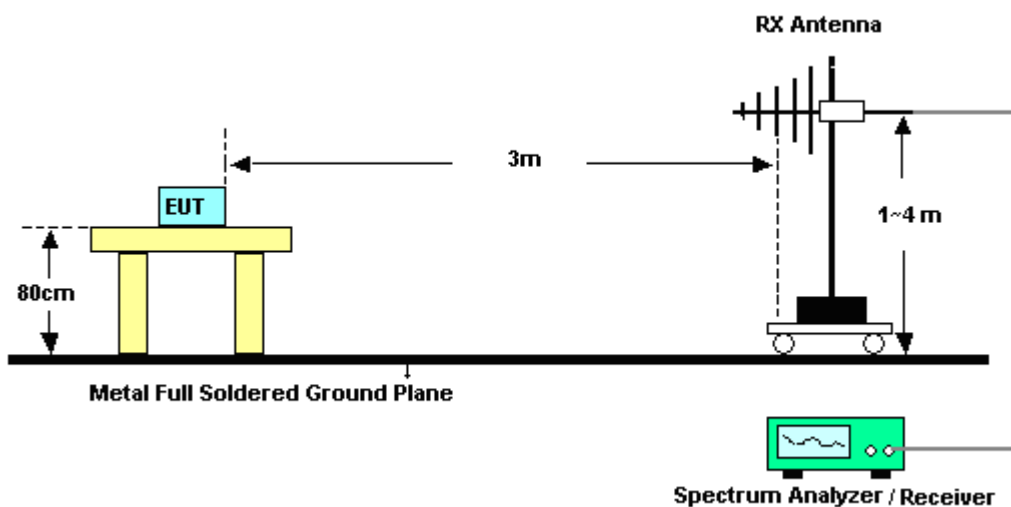
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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

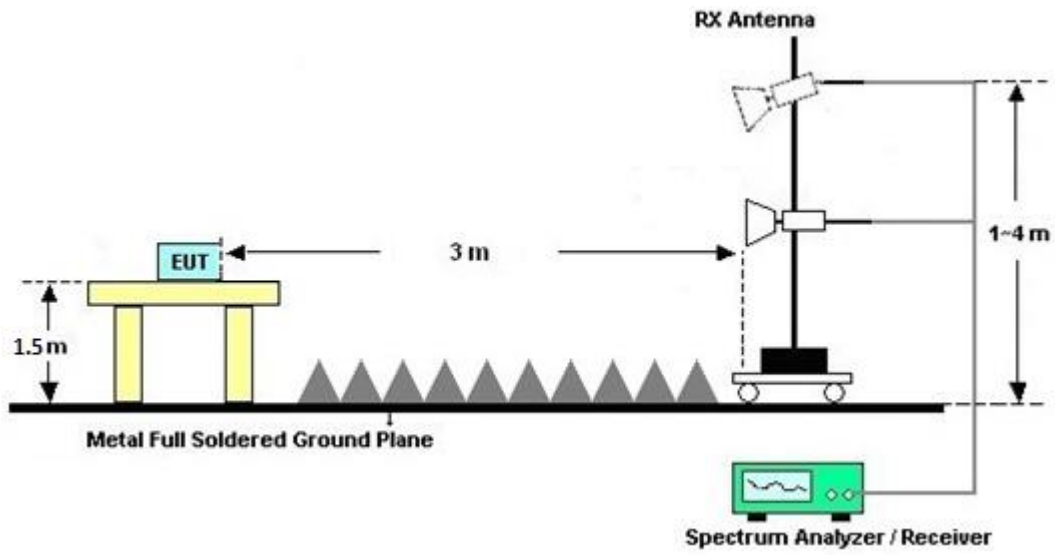
For radiated emissions below 30MHz



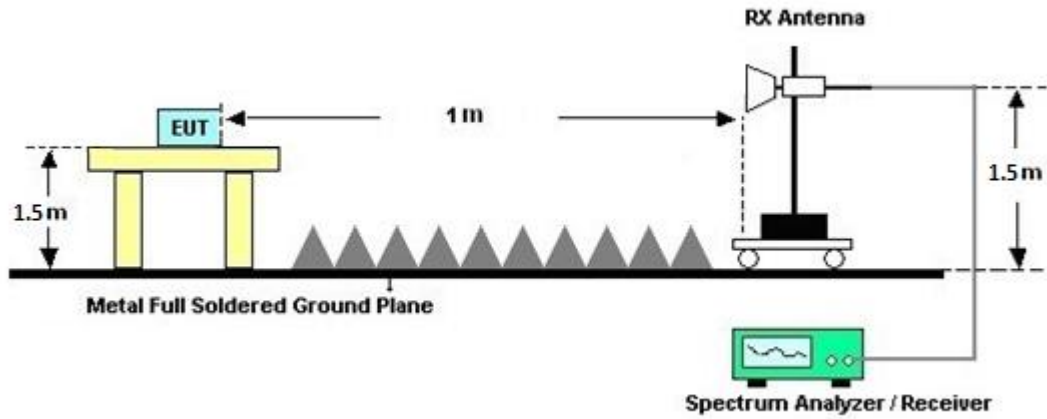
For radiated emissions from 30MHz to 1GHz



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

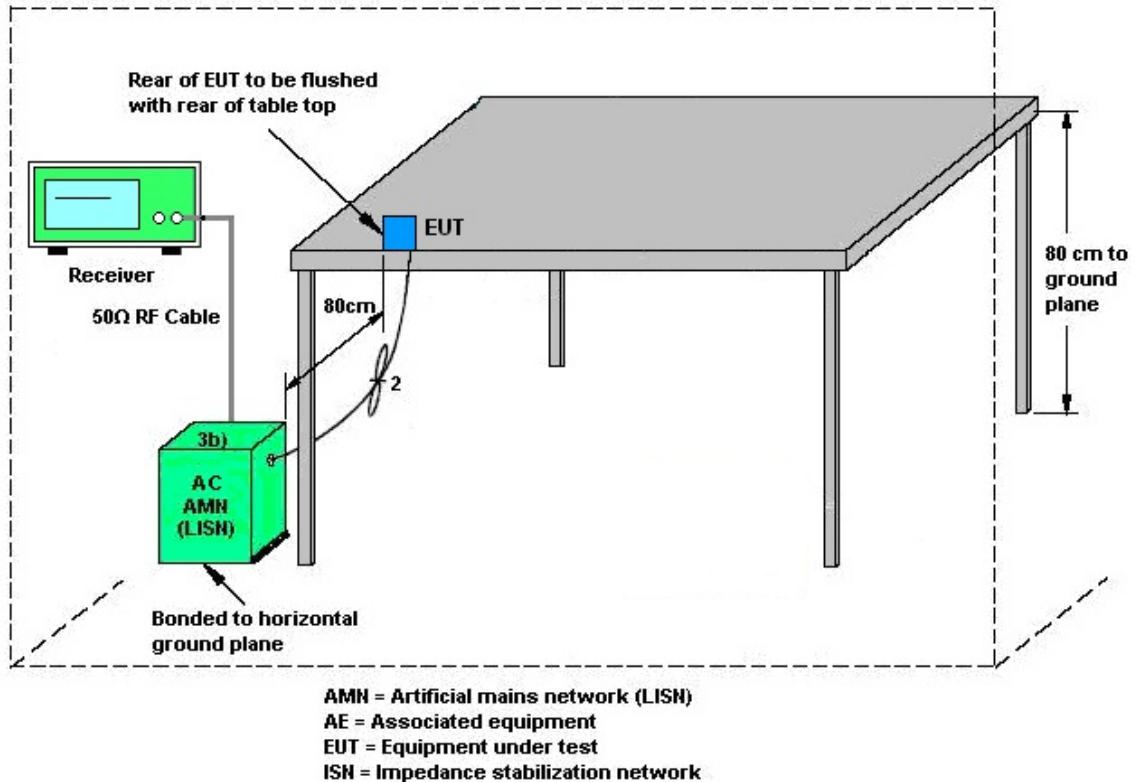
Please refer to the measuring equipment list in this test report.

#### 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
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 07, 2023	Jan. 08, 2024~ Jan. 28, 2024	Oct. 06, 2024	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Jan. 08, 2024~ Jan. 28, 2024	Sep. 11, 2024	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 17, 2023	Jan. 08, 2024~ Jan. 28, 2024	Aug. 16, 2024	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Jan. 08, 2024~ Jan. 28, 2024	Jul. 09, 2024	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 08, 2023	Jan. 08, 2024~ Jan. 28, 2024	Dec. 07, 2024	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-10M-7000-MR	EC1900245	10MHz-7GHz	Jan. 10, 2023	Jan. 08, 2024	Jan. 09, 2024	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-10M-7000-MR	EC1900245	10MHz-7GHz	Jan. 09, 2024	Jan. 09, 2024~ Jan. 28, 2024	Jan. 08, 2025	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Jan. 08, 2024~ Jan. 28, 2024	Jun. 26, 2024	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 05, 2023	Jan. 08, 2024~ Jan. 28, 2024	Oct. 04, 2024	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 08, 2024~ Jan. 28, 2024	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 08, 2024~ Jan. 28, 2024	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jan. 08, 2024~ Jan. 28, 2024	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jan. 08, 2024~ Jan. 28, 2024	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY1595/2	30MHz~40GHz	Mar. 07, 2023	Jan. 08, 2024~ Jan. 28, 2024	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 07, 2023	Jan. 08, 2024~ Jan. 28, 2024	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Jan. 08, 2024~ Jan. 28, 2024	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 07, 2023	Jan. 08, 2024~ Jan. 28, 2024	Mar. 06, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53G Low Pass	Sep. 11, 2023	Jan. 08, 2024~ Jan. 28, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40SS	SN3	6.75GHz High Pass Filter	Sep. 11, 2023	Jan. 08, 2024~ Jan. 28, 2024	Sep. 10, 2024	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Dec. 28, 2023~ Feb. 01, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17100015SNO 36	10MHz~6GHz	Aug. 23, 2023	Dec. 28, 2023~ Feb. 01, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Dec. 28, 2023~ Feb. 01, 2024	Sep. 11, 2024	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jan. 08, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 08, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Jan. 08, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	Jan. 08, 2024	Mar. 14, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 05, 2023	Jan. 08, 2024	Mar. 04, 2024	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 13, 2023	Jan. 08, 2024	Mar. 12, 2024	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Jan. 08, 2024	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% ( $U = 2Uc(y)$ )	3.44 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.1 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.3 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.3 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.3 dB
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Henry Ke	Temperature:	21~25	°C
Test Date:	2023/12/28~2024/02/01	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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	149	5745	16.33	16.33	19.52	19.20	15.35	15.65	0.5	Pass
11a	6Mbps	2	157	5785	16.33	16.33	19.36	19.12	15.20	14.50	0.5	Pass
11a	6Mbps	2	165	5825	16.33	16.33	19.36	19.28	15.15	15.20	0.5	Pass
VHT20	MCS0	2	149	5745	17.53	17.53	20.48	20.40	15.20	15.15	0.5	Pass
VHT20	MCS0	2	157	5785	17.53	17.53	20.96	20.32	16.65	16.50	0.5	Pass
VHT20	MCS0	2	165	5825	17.48	17.53	20.08	20.64	15.25	15.15	0.5	Pass
VHT40	MCS0	2	151	5755	36.06	36.16	40.80	40.80	34.02	35.28	0.5	Pass
VHT40	MCS0	2	159	5795	36.06	36.06	41.12	41.12	34.65	35.28	0.5	Pass
VHT80	MCS0	2	155	5775	74.93	74.93	81.60	81.60	72.96	75.52	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 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	149	5745	21.40	21.40	24.41	30.00		3.70		Pass
11a	6Mbps	2	157	5785	21.00	21.20	24.11	30.00		3.70		Pass
11a	6Mbps	2	165	5825	21.30	21.20	24.26	30.00		3.70		Pass
HT20	MCS0	2	149	5745	21.00	21.00	24.01	30.00		3.70		Pass
HT20	MCS0	2	157	5785	21.00	21.10	24.06	30.00		3.70		Pass
HT20	MCS0	2	165	5825	21.20	21.10	24.16	30.00		3.70		Pass
HT40	MCS0	2	151	5755	21.20	21.10	24.16	30.00		3.70		Pass
HT40	MCS0	2	159	5795	21.20	21.00	24.11	30.00		3.70		Pass
VHT20	MCS0	2	149	5745	21.10	21.10	24.11	30.00		3.70		Pass
VHT20	MCS0	2	157	5785	21.10	21.20	24.16	30.00		3.70		Pass
VHT20	MCS0	2	165	5825	21.30	21.20	24.26	30.00		3.70		Pass
VHT40	MCS0	2	151	5755	21.30	21.20	24.26	30.00		3.70		Pass
VHT40	MCS0	2	159	5795	21.30	21.10	24.21	30.00		3.70		Pass
VHT80	MCS0	2	155	5775	21.20	21.30	24.26	30.00		3.70		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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	149	5745	0.03	0.03	2.22	8.05	8.01	11.06	29.58	29.58	6.42	6.42	Pass	
11a	6Mbps	2	157	5785	0.03	0.03	2.22	7.42	7.67	10.68	29.58	29.58	6.42	6.42	Pass	
11a	6Mbps	2	165	5825	0.03	0.03	2.22	7.79	7.69	10.80	29.58	29.58	6.42	6.42	Pass	
VHT20	MCS0	2	149	5745	0.01	0.01	2.22	7.43	7.55	10.56	29.58	29.58	6.42	6.42	Pass	
VHT20	MCS0	2	157	5785	0.01	0.01	2.22	7.39	7.41	10.42	29.58	29.58	6.42	6.42	Pass	
VHT20	MCS0	2	165	5825	0.01	0.01	2.22	7.85	7.48	10.86	29.58	29.58	6.42	6.42	Pass	
VHT40	MCS0	2	151	5755	0.02	0.02	2.22	5.66	5.26	8.67	29.58	29.58	6.42	6.42	Pass	
VHT40	MCS0	2	159	5795	0.02	0.02	2.22	5.55	5.19	8.56	29.58	29.58	6.42	6.42	Pass	
VHT80	MCS0	2	155	5775	0.02	0.02	2.22	2.45	2.51	5.52	29.58	29.58	6.42	6.42	Pass	

**Note:** PSD Sum = Max PSD(Ant. 0, Ant. 1) + 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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	149	5745	Full	18.93	18.93	21.36	22.40	17.15	16.70	0.5	Pass
HE20	MCS0	2	157	5785	Full	18.83	18.93	21.36	21.44	16.15	15.85	0.5	Pass
HE20	MCS0	2	165	5825	Full	18.88	18.88	21.52	23.12	14.80	16.10	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.86	37.86	41.76	41.28	35.82	35.28	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.86	37.86	41.76	41.44	35.28	35.37	0.5	Pass
HE80	MCS0	2	155	5775	Full	76.72	76.96	82.24	82.24	75.52	72.96	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 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	2	149	5745	Full	21.20	21.20	24.21	30.00		3.70		Pass
HE20	MCS0	2	149	5745	26/0	11.20	13.50	15.51	30.00		3.70		Pass
HE20	MCS0	2	149	5745	52/37	16.50	16.30	19.41	30.00		3.70		Pass
HE20	MCS0	2	149	5745	106/53	19.80	19.40	22.61	30.00		3.70		Pass
HE20	MCS0	2	157	5785	Full	21.20	21.30	24.26	30.00		3.70		Pass
HE20	MCS0	2	157	5785	26/4	11.40	13.50	15.59	30.00		3.70		Pass
HE20	MCS0	2	157	5785	52/38	16.80	16.80	19.81	30.00		3.70		Pass
HE20	MCS0	2	157	5785	106/53	19.80	19.50	22.66	30.00		3.70		Pass
HE20	MCS0	2	165	5825	Full	21.40	21.30	24.36	30.00		3.70		Pass
HE20	MCS0	2	165	5825	26/8	11.50	13.10	15.38	30.00		3.70		Pass
HE20	MCS0	2	165	5825	52/40	15.90	16.40	19.17	30.00		3.70		Pass
HE20	MCS0	2	165	5825	106/54	19.60	19.50	22.56	30.00		3.70		Pass
HE40	MCS0	2	151	5755	Full	21.40	21.30	24.36	30.00		3.70		Pass
HE40	MCS0	2	151	5755	242/61	21.00	20.80	23.91	30.00		3.70		Pass
HE40	MCS0	2	159	5795	Full	21.40	21.20	24.31	30.00		3.70		Pass
HE40	MCS0	2	159	5795	242/62	20.60	20.40	23.51	30.00		3.70		Pass
HE80	MCS0	2	155	5775	Full	21.30	21.40	24.36	30.00		3.70		Pass
HE80	MCS0	2	155	5775	484/65	21.10	21.30	24.21	30.00		3.70		Pass
HE80	MCS0	2	155	5775	484/66	20.70	20.50	23.61	30.00		3.70		Pass

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

U-NII-3 MIMO																	
Mod.	Data Rate	NTx	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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	2	149	5745	Full	0.01	0.01	2.22	7.35	7.38	10.39	29.58	6.42	Pass			
HE20	MCS0	2	149	5745	26/0	0.03	0.03	2.22	5.12	7.29	10.30	29.58	6.42	Pass			
HE20	MCS0	2	149	5745	52/37	0.05	0.05	2.22	7.19	7.04	10.20	29.58	6.42	Pass			
HE20	MCS0	2	149	5745	106/53	0.10	0.10	2.22	7.40	6.91	10.41	29.58	6.42	Pass			
HE20	MCS0	2	157	5785	Full	0.01	0.01	2.22	7.32	7.38	10.39	29.58	6.42	Pass			
HE20	MCS0	2	157	5785	26/4	0.03	0.03	2.22	5.26	7.29	10.30	29.58	6.42	Pass			
HE20	MCS0	2	157	5785	52/38	0.05	0.05	2.22	7.28	7.27	10.29	29.58	6.42	Pass			
HE20	MCS0	2	157	5785	106/53	0.10	0.10	2.22	7.37	7.27	10.38	29.58	6.42	Pass			
HE20	MCS0	2	165	5825	Full	0.01	0.01	2.22	7.60	7.46	10.61	29.58	6.42	Pass			
HE20	MCS0	2	165	5825	26/8	0.03	0.03	2.22	5.50	7.23	10.24	29.58	6.42	Pass			
HE20	MCS0	2	165	5825	52/40	0.05	0.05	2.22	6.74	7.23	10.24	29.58	6.42	Pass			
HE20	MCS0	2	165	5825	106/54	0.10	0.10	2.22	7.43	7.23	10.44	29.58	6.42	Pass			
HE40	MCS0	2	151	5755	Full	0.01	0.01	2.22	5.02	4.68	8.03	29.58	6.42	Pass			
HE40	MCS0	2	151	5755	242/61	0.03	0.03	2.22	4.82	4.65	7.83	29.58	6.42	Pass			
HE40	MCS0	2	159	5795	Full	0.01	0.01	2.22	5.02	4.53	8.03	29.58	6.42	Pass			
HE40	MCS0	2	159	5795	242/62	0.03	0.03	2.22	4.61	4.31	7.62	29.58	6.42	Pass			
HE80	MCS0	2	155	5775	Full	0.03	0.03	2.22	2.21	2.27	5.28	29.58	6.42	Pass			
HE80	MCS0	2	155	5775	484/65	0.05	0.05	2.22	2.03	2.21	5.22	29.58	6.42	Pass			
HE80	MCS0	2	155	5775	484/66	0.05	0.05	2.22	1.81	1.53	4.82	29.58	6.42	Pass			

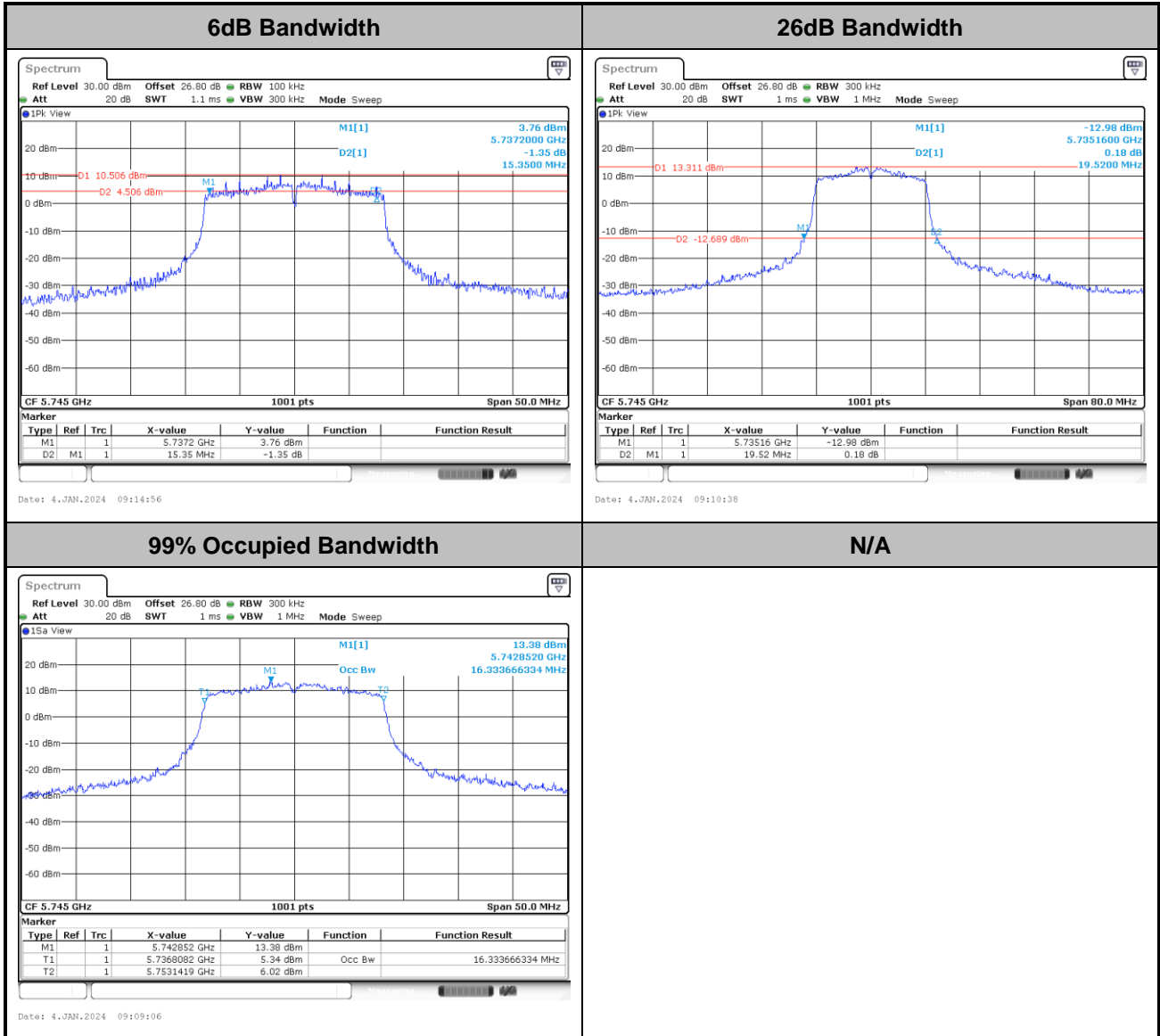
**Note:** PSD Sum = Max PSD(Ant. 0, Ant. 1) + 10 log (n)



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

MIMO <Ant. 0+1>

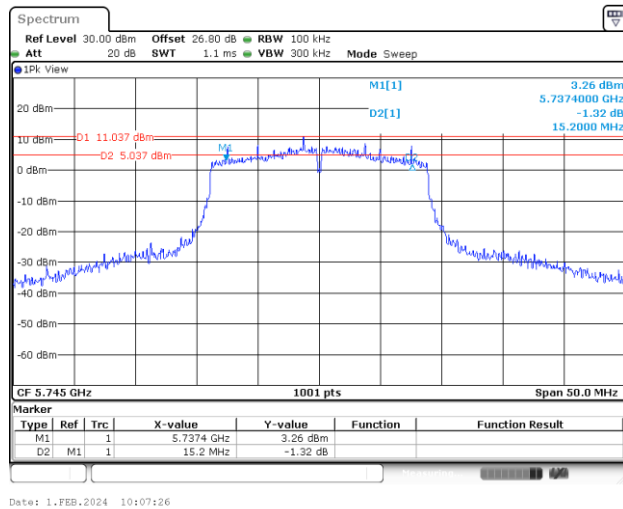
<802.11a>



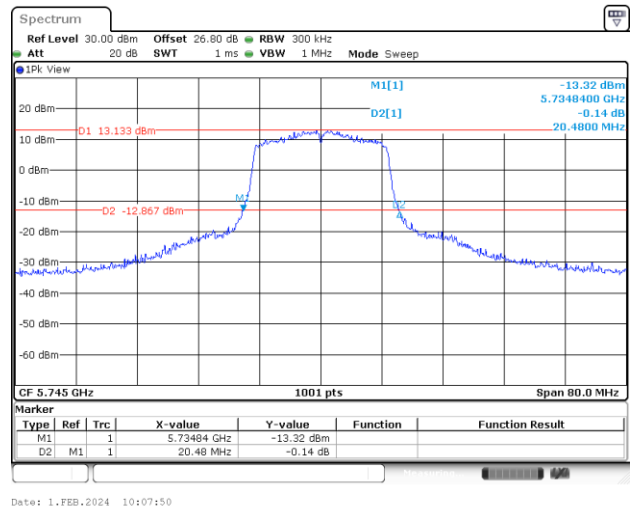


<802.11ac VHT20>

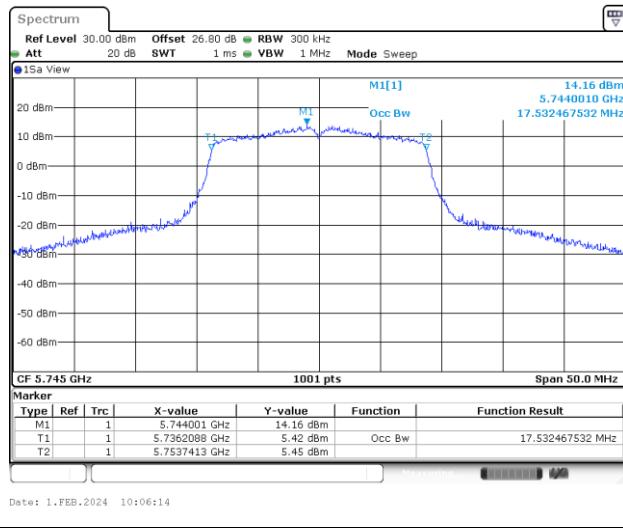
6dB Bandwidth



26dB Bandwidth



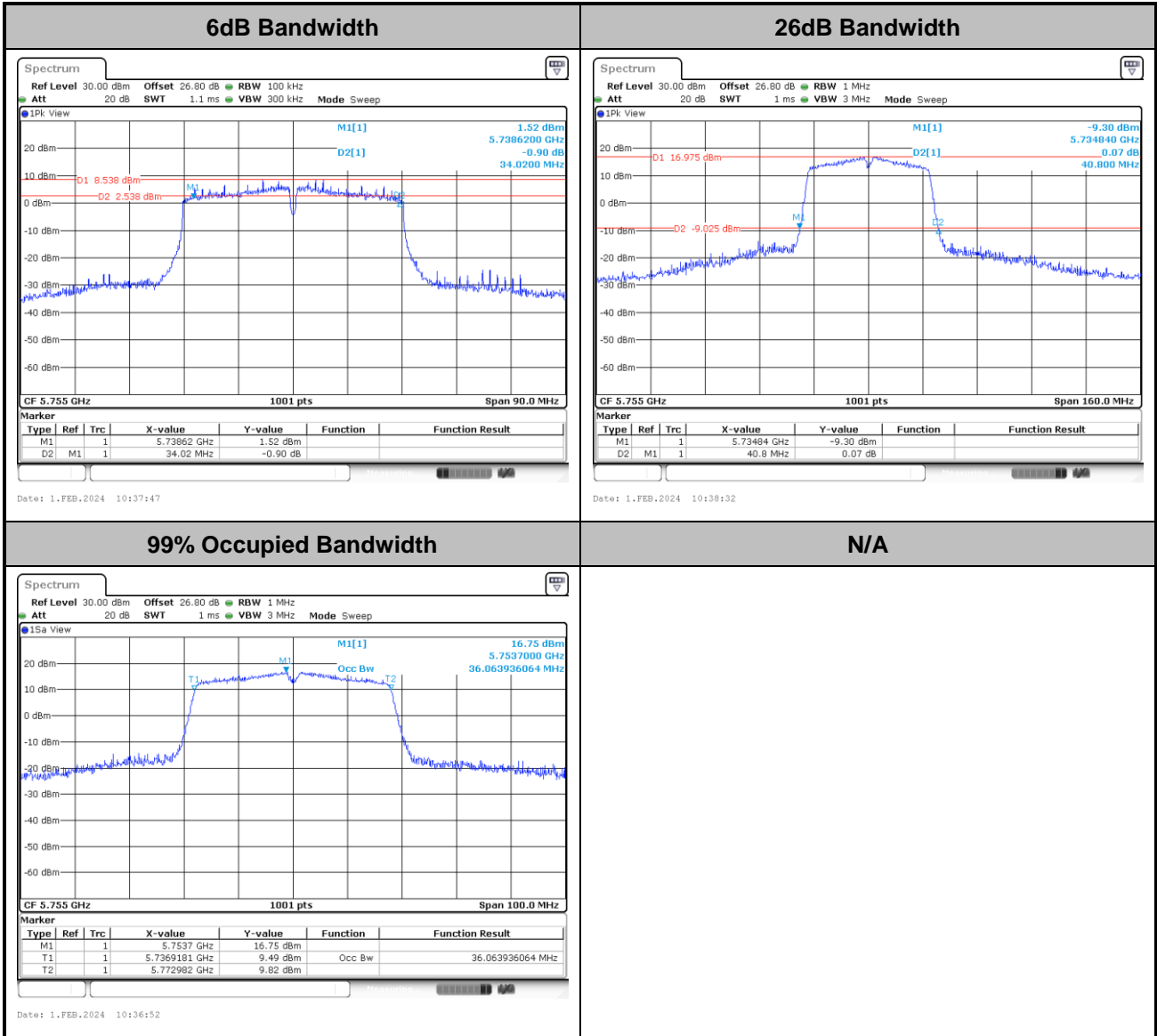
99% Occupied Bandwidth



N/A

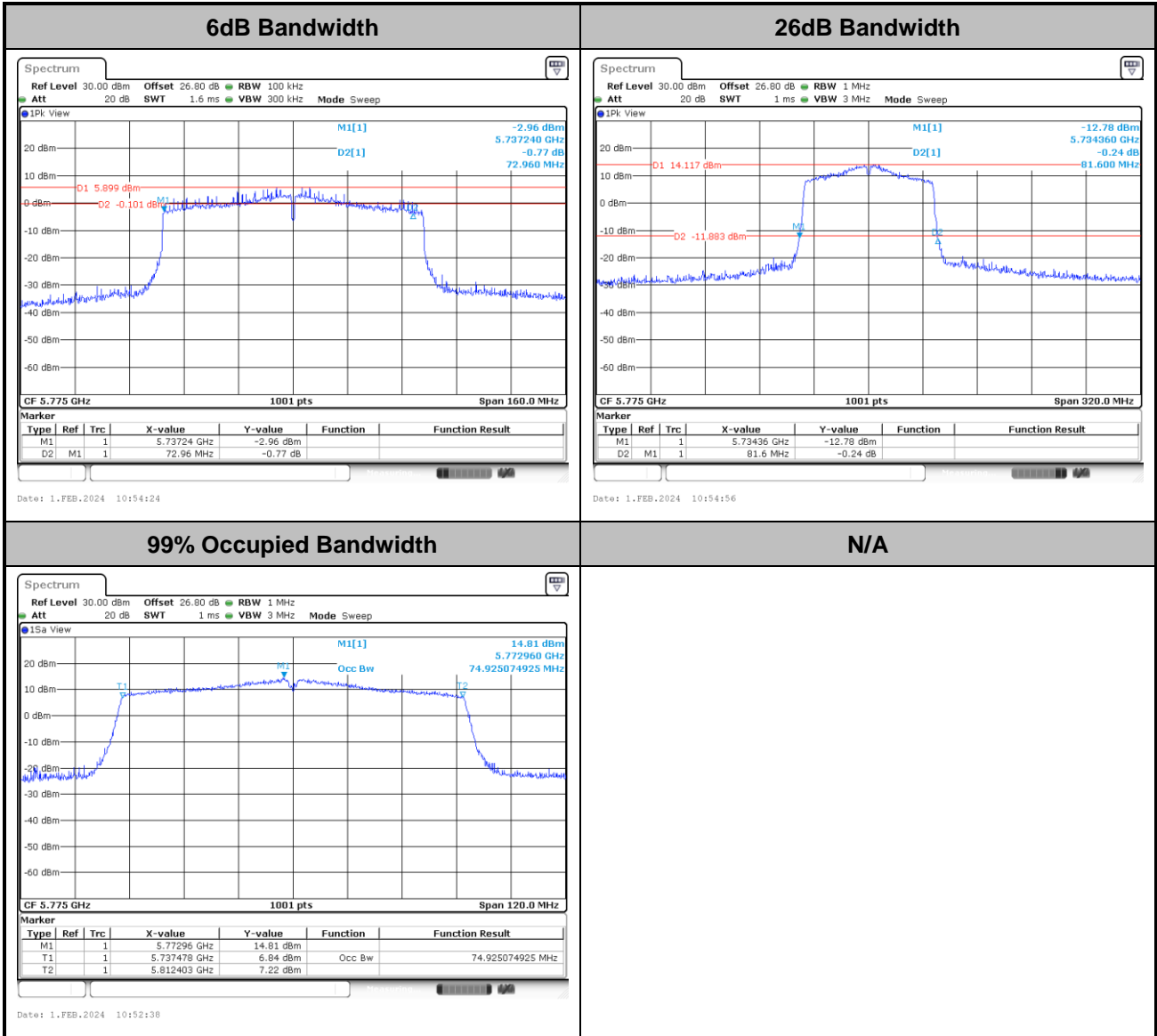


<802.11ac VHT40>





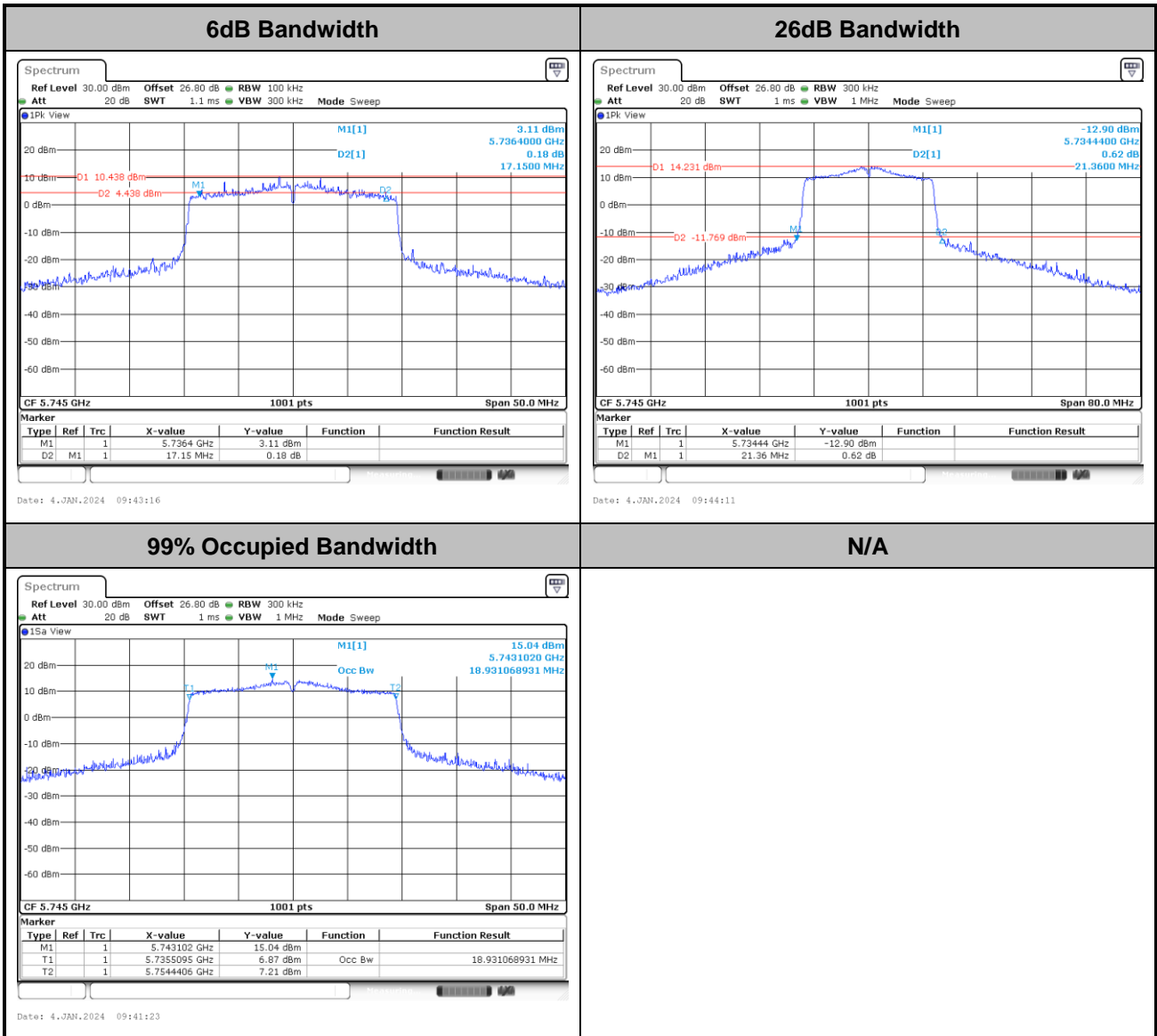
<802.11ac VHT80>







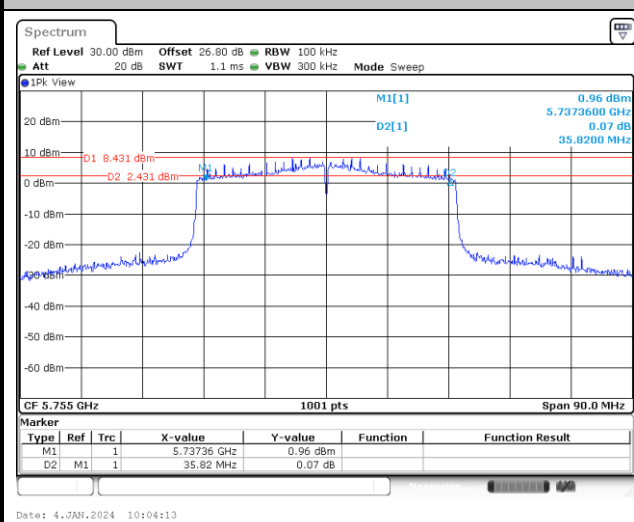
<802.11ax HE20>



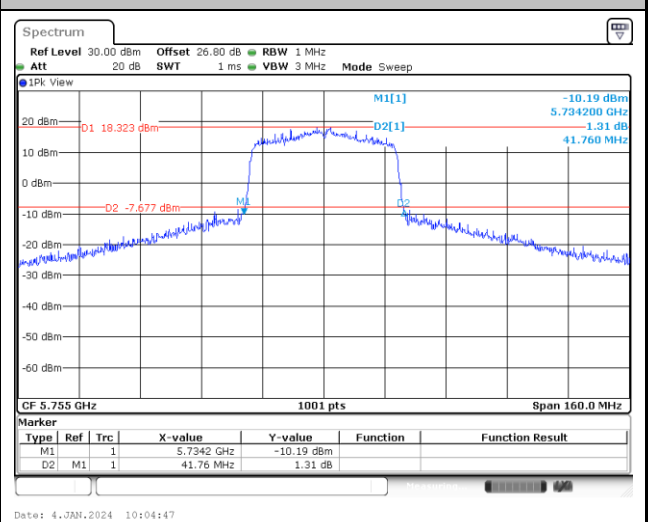


<802.11ax HE40>

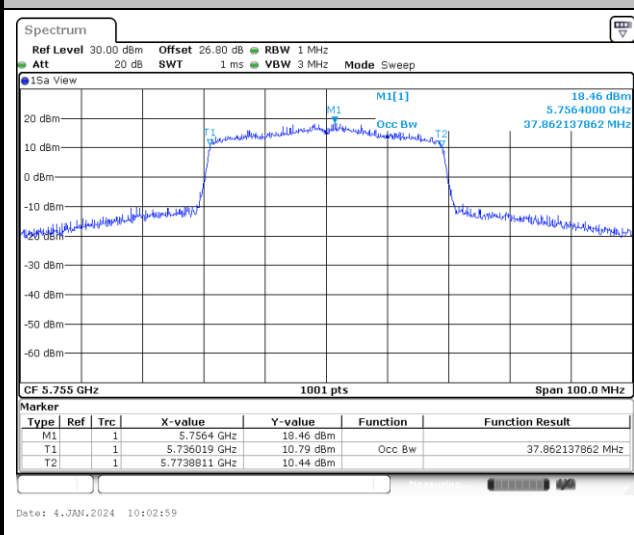
6dB Bandwidth



26dB Bandwidth



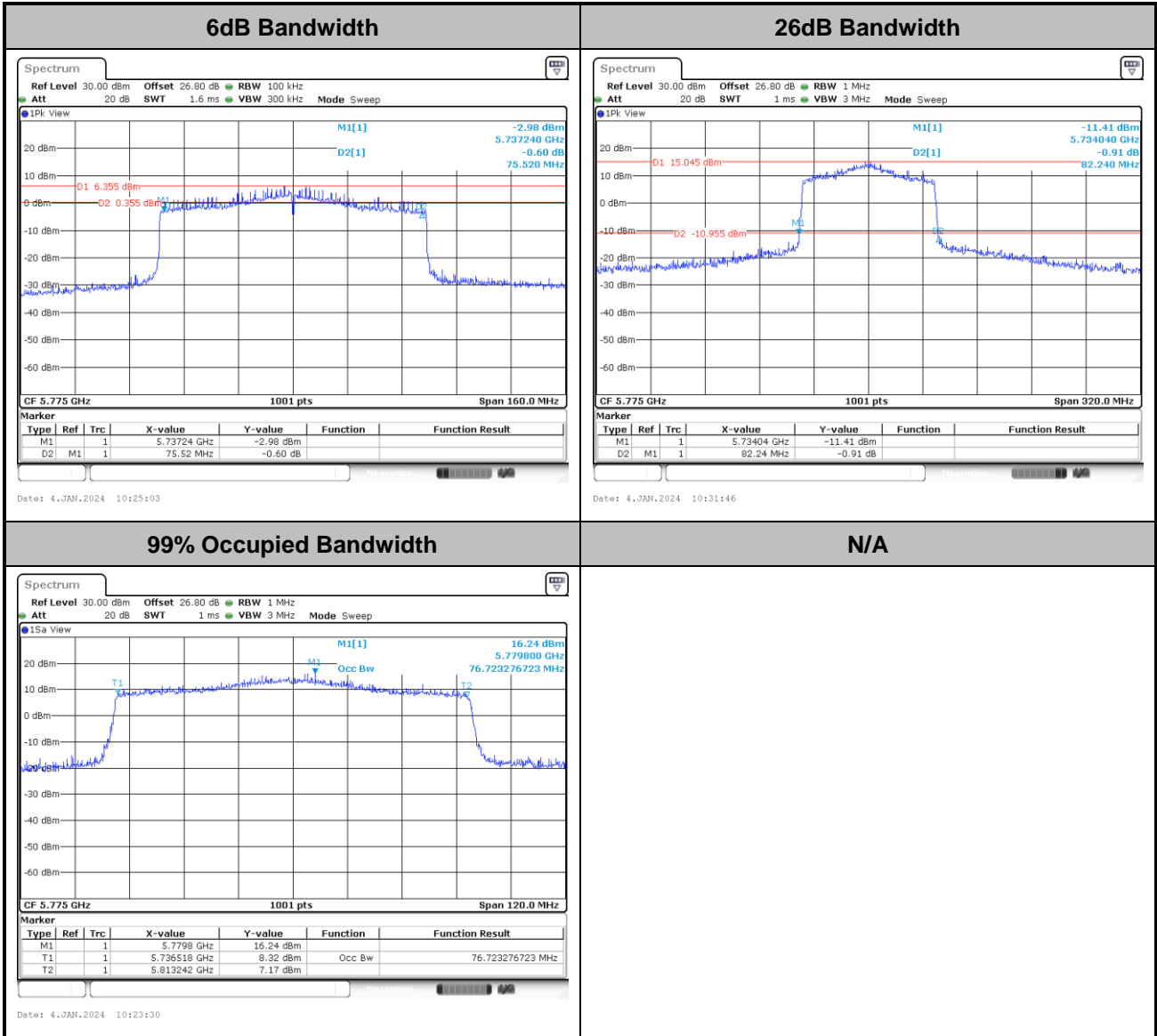
99% Occupied Bandwidth



N/A



<802.11ax HE80>



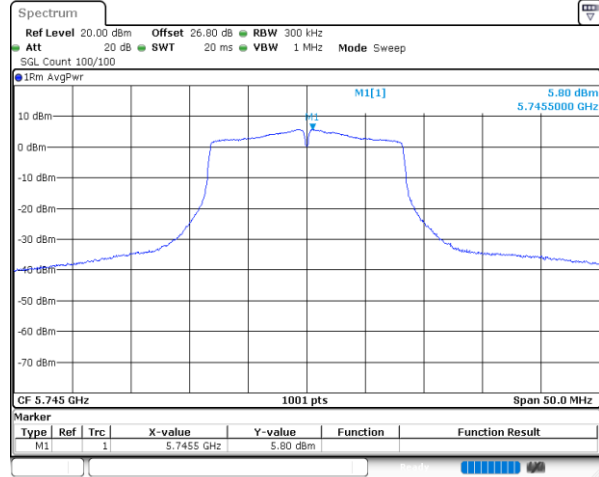


Test Result of Power Spectral Density

<802.11a>

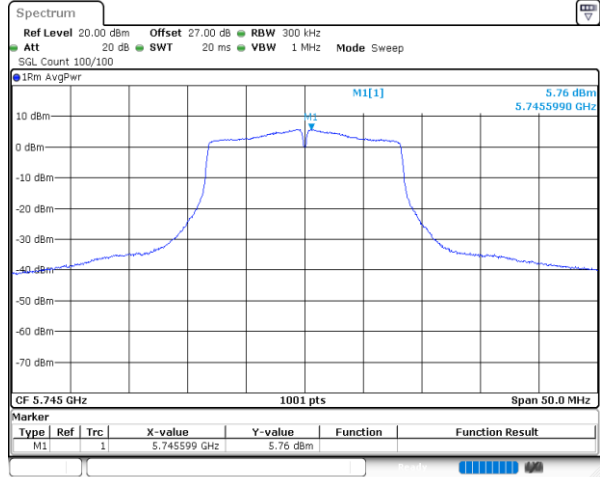
Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 0



Date: 4.JAN.2024 09:09:38

MIMO Ant. 1

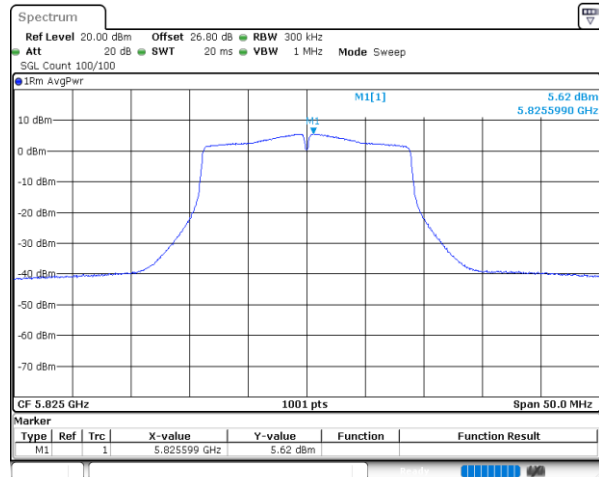


Date: 4.JAN.2024 09:13:07

<802.11ac VHT20>

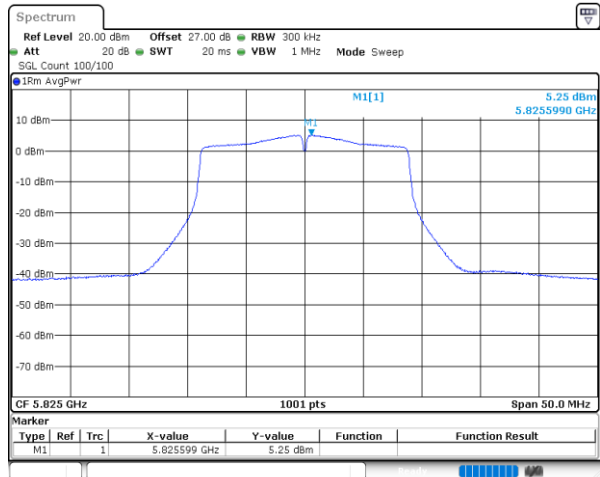
Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 0



Date: 1.FEB.2024 10:29:05

MIMO Ant. 1



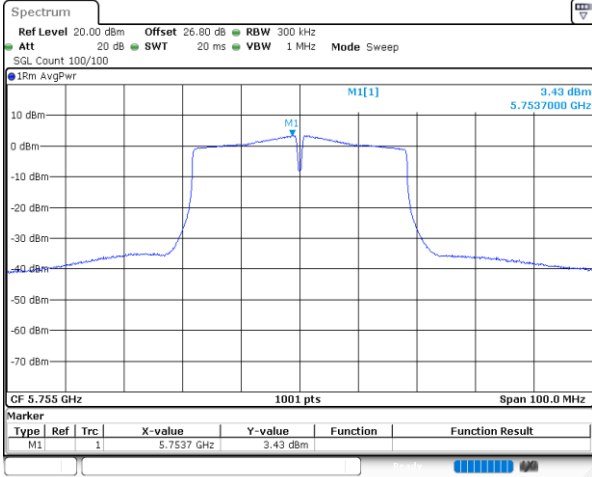
Date: 1.FEB.2024 10:30:56



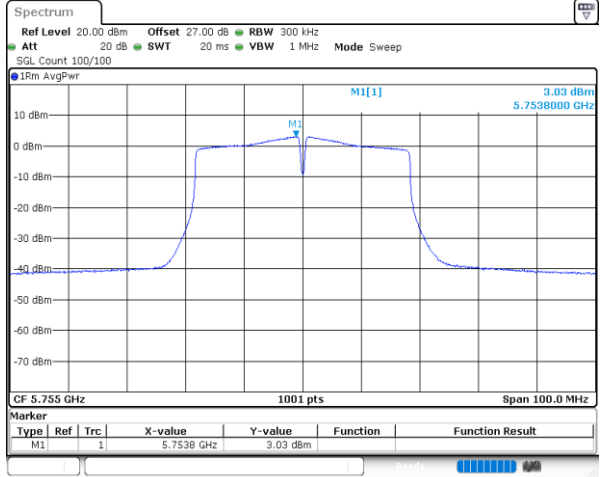
<802.11ac VHT40>

Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 0



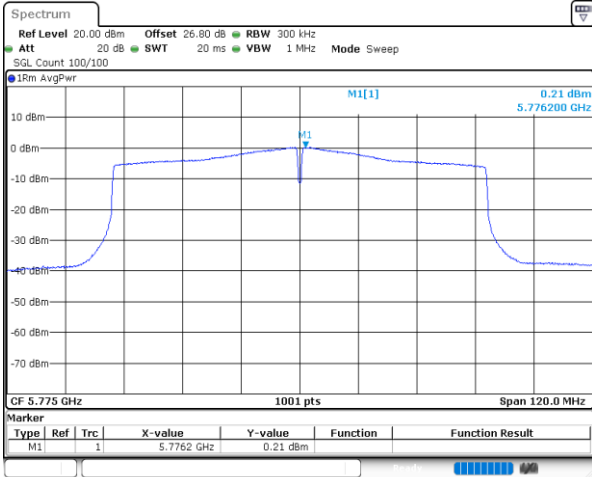
MIMO Ant. 1



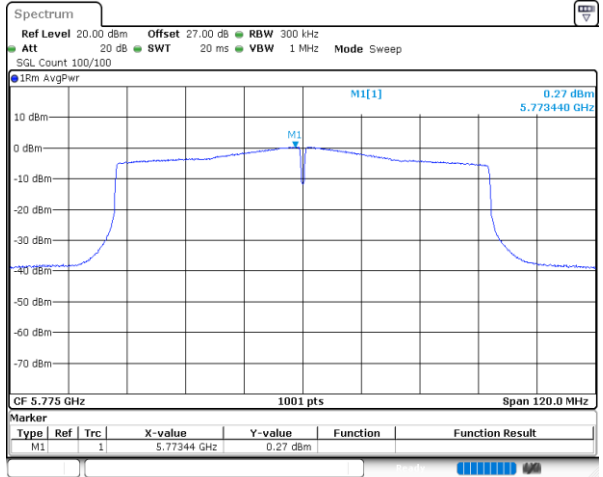
<802.11ac VHT80>

Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 0



MIMO Ant. 1

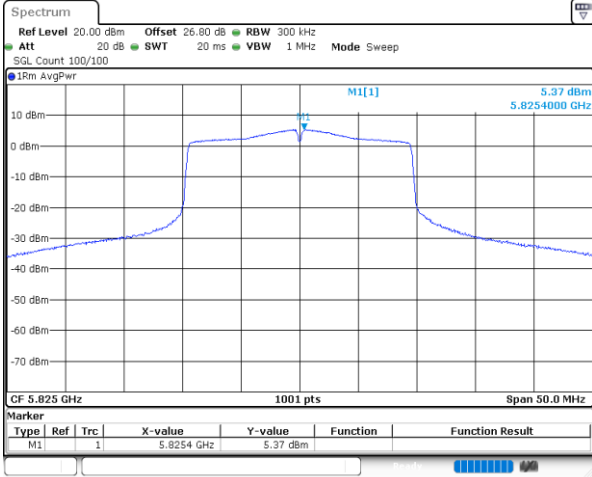




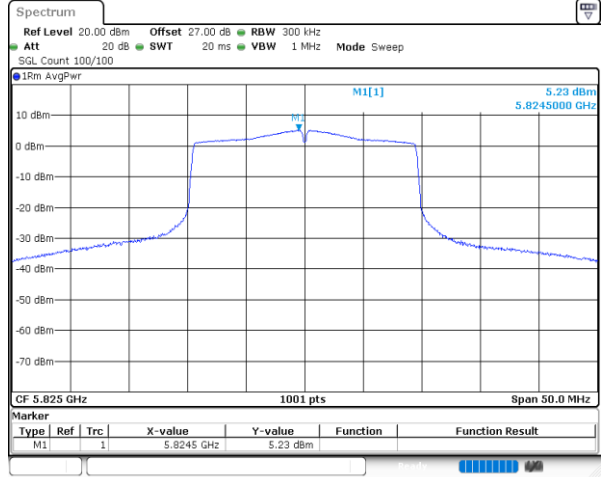
<802.11ax HE20>

Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 0



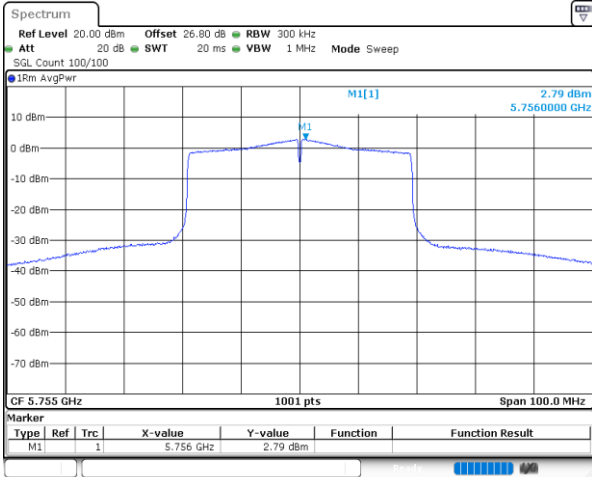
MIMO Ant. 1



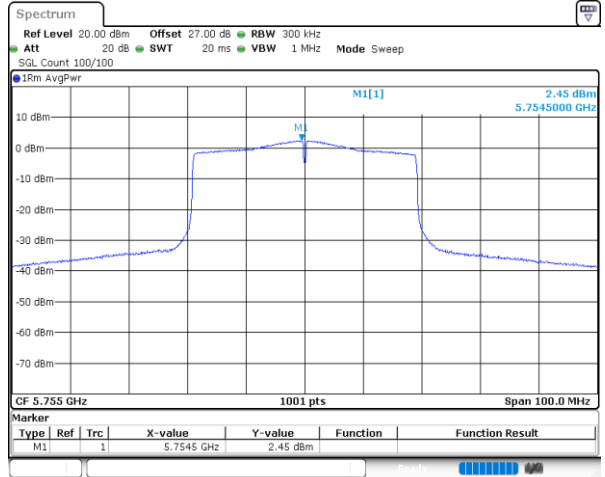
<802.11ax HE40>

Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 0



MIMO Ant. 1



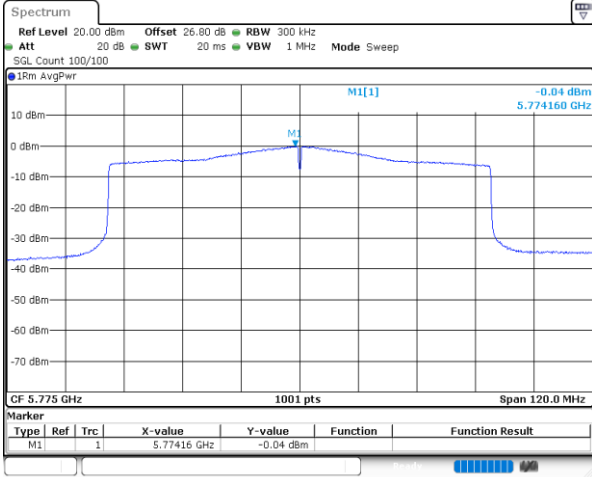


<802.11ax HE80>

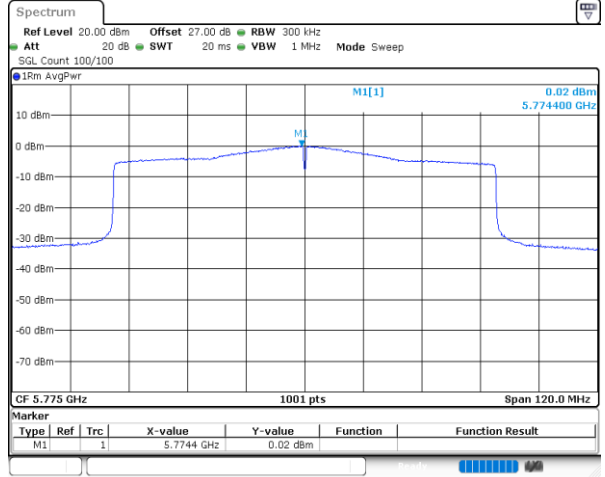
Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 0

MIMO Ant. 1



Date: 4.JAN.2024 10:24:16



Date: 4.JAN.2024 10:29:38



## Appendix B. AC Conducted Emission Test Results

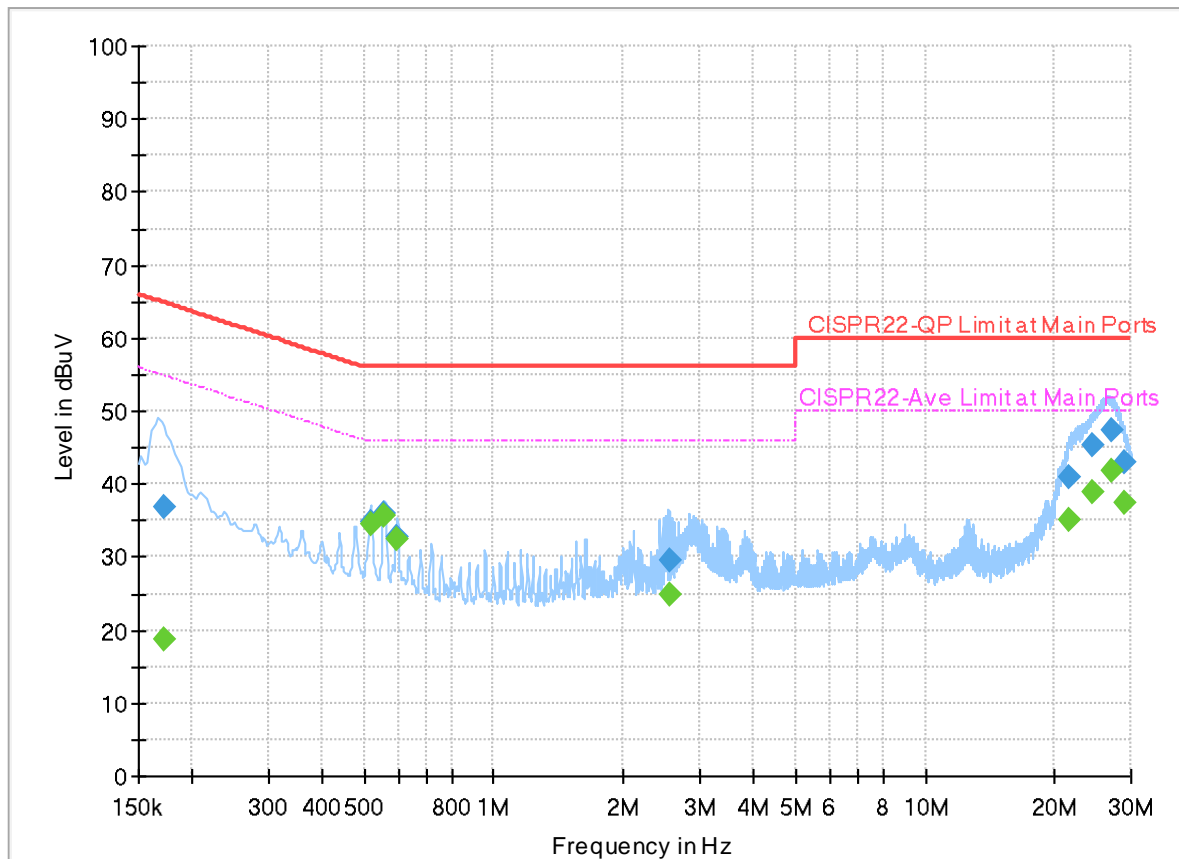
Test Engineer :	Louis Chung	Temperature :	17.2~21.3°C
		Relative Humidity :	55.3~61.7%



## EUT Information

Report NO : 3D0512  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



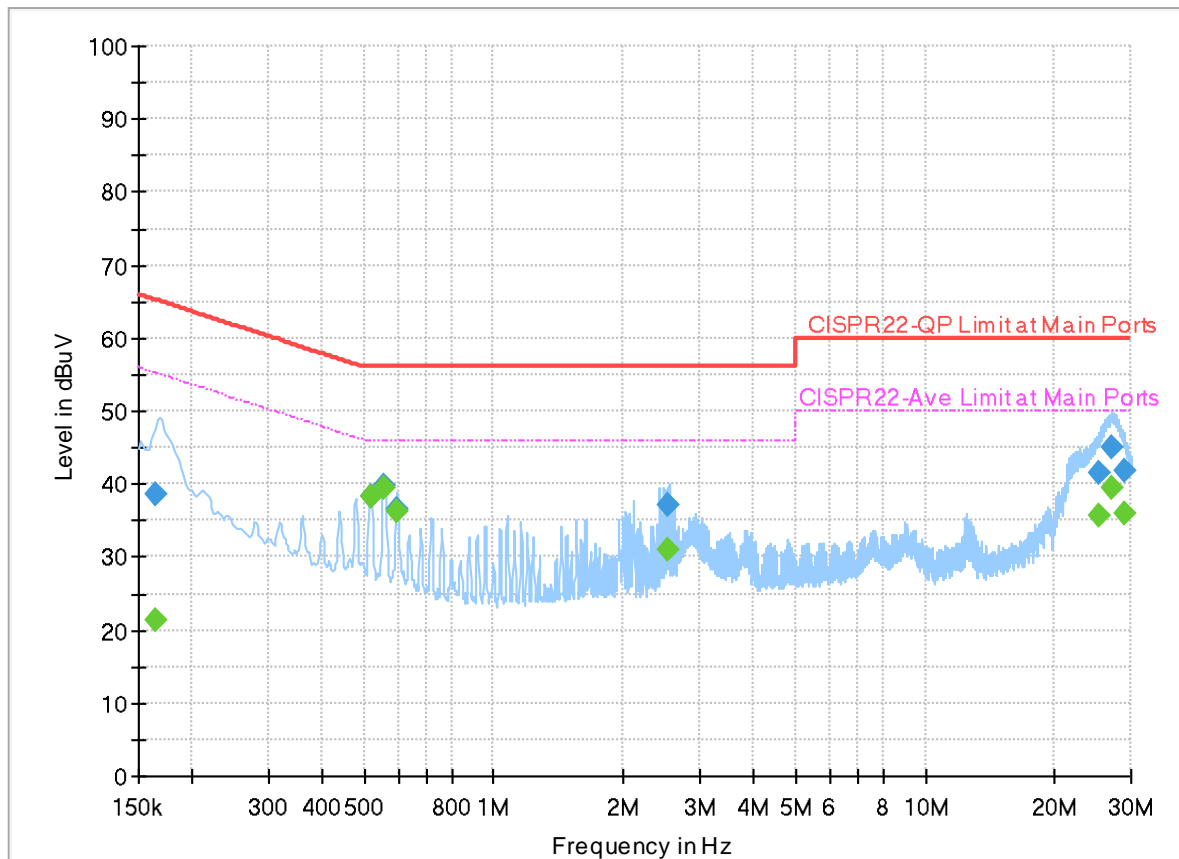
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172320	---	18.81	54.85	36.04	L1	OFF	19.9
0.172320	36.91	---	64.85	27.94	L1	OFF	19.9
0.516570	---	34.42	46.00	11.58	L1	OFF	19.9
0.516570	34.79	---	56.00	21.21	L1	OFF	19.9
0.557070	---	35.79	46.00	10.21	L1	OFF	19.9
0.557070	35.90	---	56.00	20.10	L1	OFF	19.9
0.596400	---	32.50	46.00	13.50	L1	OFF	19.9
0.596400	32.69	---	56.00	23.31	L1	OFF	19.9
2.548500	---	24.78	46.00	21.22	L1	OFF	20.0
2.548500	29.40	---	56.00	26.60	L1	OFF	20.0
21.536250	---	35.17	50.00	14.83	L1	OFF	20.1
21.536250	40.96	---	60.00	19.04	L1	OFF	20.1
24.306000	---	38.76	50.00	11.24	L1	OFF	20.2
24.306000	45.36	---	60.00	14.64	L1	OFF	20.2
27.014190	---	41.86	50.00	8.14	L1	OFF	20.2
27.014190	47.28	---	60.00	12.72	L1	OFF	20.2
28.918050	---	37.33	50.00	12.67	L1	OFF	20.2
28.918050	42.96	---	60.00	17.04	L1	OFF	20.2

## EUT Information

Report NO : 3D0512  
 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)
0.163500	---	21.31	55.28	33.97	N	OFF	19.9
0.163500	38.47	---	65.28	26.81	N	OFF	19.9
0.517110	---	38.21	46.00	7.79	N	OFF	19.9
0.517110	38.43	---	56.00	17.57	N	OFF	19.9
0.557250	---	39.45	46.00	6.55	N	OFF	19.9
0.557250	39.65	---	56.00	16.35	N	OFF	19.9
0.596220	---	36.11	46.00	9.89	N	OFF	19.9
0.596220	36.43	---	56.00	19.57	N	OFF	19.9
2.544000	---	30.86	46.00	15.14	N	OFF	20.0
2.544000	37.27	---	56.00	18.73	N	OFF	20.0
25.254150	---	35.75	50.00	14.25	N	OFF	20.2
25.254150	41.41	---	60.00	18.59	N	OFF	20.2
27.073410	---	39.51	50.00	10.49	N	OFF	20.2
27.073410	45.01	---	60.00	14.99	N	OFF	20.2
28.834800	---	36.10	50.00	13.90	N	OFF	20.2
28.834800	41.70	---	60.00	18.30	N	OFF	20.2



## Appendix C. Radiated Spurious Emission

Test Engineer :	Fu Chen, Sam Chou and Troye Hsieh	Temperature :	18.1~20.8°C
		Relative Humidity :	47.2~66.1%

**Band 4 - 5725~5850MHz**

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

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 149 5745MHz		5629.2	50.03	-18.17	68.2	40.76	33.06	11.22	35.01	350	174	P	H	
		5699.2	53.21	-51.4	104.61	43.4	33.49	11.28	34.96	350	174	P	H	
		5718.6	61.2	-49.21	110.41	51.28	33.57	11.3	34.95	350	174	P	H	
		5724.8	67.13	-54.61	121.74	57.18	33.6	11.3	34.95	350	174	P	H	
	*	5745	111.09	-	-	101.03	33.68	11.32	34.94	350	174	P	H	
	*	5745	104.17	-	-	94.11	33.68	11.32	34.94	350	174	A	H	
														H
														H
			5646.6	52.79	-15.41	68.2	43.46	33.09	11.23	34.99	100	121	P	V
			5693	55.78	-44.26	100.04	46.04	33.44	11.27	34.97	100	121	P	V
			5718.2	63.08	-47.22	110.3	53.16	33.57	11.3	34.95	100	121	P	V
			5725	69.58	-52.62	122.2	59.63	33.6	11.3	34.95	100	121	P	V
	*		5745	118.34	-	-	108.28	33.68	11.32	34.94	100	121	P	V
	*		5745	111.6	-	-	101.54	33.68	11.32	34.94	100	121	A	V
														V
													V	



WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 157 5785MHz		5627.75	50.55	-17.65	68.2	41.29	33.06	11.21	35.01	300	177	P	H	
		5692.75	50.93	-48.93	99.86	41.19	33.44	11.27	34.97	300	177	P	H	
		5715.75	51.77	-57.84	109.61	41.87	33.56	11.29	34.95	300	177	P	H	
		5724	50.66	-69.26	119.92	40.71	33.6	11.3	34.95	300	177	P	H	
	*	5785	111.36	-	-	101.07	33.84	11.36	34.91	300	177	P	H	
	*	5785	104.39	-	-	94.1	33.84	11.36	34.91	300	177	A	H	
		5851	50.39	-69.53	119.92	39.94	34	11.33	34.88	300	177	P	H	
		5865	50.84	-57.16	108	40.33	34.06	11.32	34.87	300	177	P	H	
		5913	51.46	-25.59	77.05	40.78	34.23	11.29	34.84	300	177	P	H	
		5948.5	50.79	-17.41	68.2	40.05	34.3	11.26	34.82	300	177	P	H	
														H
														H
			5630.25	51.98	-16.22	68.2	42.7	33.06	11.22	35	100	121	P	V
			5689.75	52.81	-44.83	97.64	43.09	33.42	11.27	34.97	100	121	P	V
			5710	52.75	-55.25	108	42.88	33.54	11.29	34.96	100	121	P	V
			5725	54.01	-68.19	122.2	44.06	33.6	11.3	34.95	100	121	P	V
	*		5785	115.11	-	-	104.82	33.84	11.36	34.91	100	121	P	V
	*		5785	110.53	-	-	100.24	33.84	11.36	34.91	100	121	A	V
			5853	52.45	-62.91	115.36	41.99	34.01	11.33	34.88	100	121	P	V
			5860	53	-56.4	109.4	42.51	34.04	11.32	34.87	100	121	P	V
			5886.5	51.88	-44.78	96.66	41.28	34.15	11.31	34.86	100	121	P	V
			5948.75	50.94	-17.26	68.2	40.2	34.3	11.26	34.82	100	121	P	V
														V
													V	



WiFi Ant. 0+1	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 165 5825MHz	*	5825	110.74	-	-	100.33	33.95	11.35	34.89	100	174	P	H	
	*	5825	103.82	-	-	93.41	33.95	11.35	34.89	100	174	A	H	
		5850	53.07	-69.13	122.2	42.62	34	11.33	34.88	100	174	P	H	
		5863.2	52.49	-56.01	108.5	41.99	34.05	11.32	34.87	100	174	P	H	
		5920.6	52.13	-19.31	71.44	41.45	34.24	11.28	34.84	100	174	P	H	
		5939.8	51.31	-16.89	68.2	40.58	34.28	11.27	34.82	100	174	P	H	
														H
														H
	*	5825	116.71	-	-	106.3	33.95	11.35	34.89	100	121	121	P	V
	*	5825	109.73	-	-	99.32	33.95	11.35	34.89	100	121	121	A	V
		5851.4	53.98	-65.03	119.01	43.52	34.01	11.33	34.88	100	121	121	P	V
		5859.8	53.69	-55.76	109.45	43.19	34.04	11.33	34.87	100	121	121	P	V
		5879.8	53.3	-48.33	101.63	42.73	34.12	11.31	34.86	100	121	121	P	V
		5942.4	52.34	-15.86	68.2	41.62	34.28	11.26	34.82	100	121	121	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. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 149 5745MHz		11490	48.96	-25.04	74	53.01	39	18.21	61.26	-	-	P	H	
		11490	37.93	-16.07	54	41.98	39	18.21	61.26	-	-	A	H	
		17235	47.53	-20.67	68.2	43.99	38.44	22.99	57.89	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11490	49.33	-24.67	74	53.38	39	18.21	61.26	100	10	P	V
			11490	38.29	-15.71	54	42.34	39	18.21	61.26	100	10	A	V
		17235	47.89	-20.31	68.2	44.35	38.44	22.99	57.89	-	-	P	V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	



WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	46.92	-27.08	74	51.29	38.82	18.26	61.45	-	-	P	H
		17355	57.53	-10.67	68.2	53.37	38.61	23.06	57.51	250	26	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			11570	47.43	-26.57	74	51.8	38.82	18.26	61.45	-	-	P
		17355	62.92	-5.28	68.2	58.76	38.61	23.06	57.51	100	60	P	V
													V
													V
													V
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													V



WiFi Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11a CH 165 5825MHz		11650	46.69	-27.31	74	51.44	38.6	18.31	61.66	-	-	P	H
		17475	60.34	-7.86	68.2	55.7	38.65	23.12	57.13	208	40	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			11650	48.52	-25.48	74	53.27	38.6	18.31	61.66	-	-	P
		17475	63.79	-4.41	68.2	59.15	38.65	23.12	57.13	102	64	P	V
													V
													V
													V
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<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 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5638	53.17	-15.03	68.2	43.87	33.08	11.22	35	109	175	P	H
		5700	60.38	-44.82	105.2	50.56	33.5	11.28	34.96	109	175	P	H
		5711.5	64.59	-43.83	108.42	54.71	33.55	11.29	34.96	109	175	P	H
		5723.5	62.55	-56.23	118.78	52.61	33.59	11.3	34.95	109	175	P	H
	*	5775	108.17	-	-	97.94	33.8	11.35	34.92	109	175	P	H
	*	5775	100.47	-	-	90.24	33.8	11.35	34.92	109	175	A	H
		5850	61.47	-60.73	122.2	51.02	34	11.33	34.88	109	175	P	H
		5855	59.71	-51.09	110.8	49.23	34.02	11.33	34.87	109	175	P	H
		5877	54.33	-49.38	103.71	43.77	34.11	11.31	34.86	109	175	P	H
		5929.5	53.07	-15.13	68.2	42.37	34.26	11.27	34.83	109	175	P	H
802.11ac													H
VHT80													H
CH 155		5647	57.33	-10.87	68.2	48	33.09	11.23	34.99	102	118	P	V
5775MHz		5700	63.64	-41.56	105.2	53.82	33.5	11.28	34.96	102	118	P	V
		5710.5	66.88	-41.26	108.14	57.01	33.54	11.29	34.96	102	118	P	V
		5721.75	68.12	-46.67	114.79	58.18	33.59	11.3	34.95	102	118	P	V
	*	5775	112.78	-	-	102.55	33.8	11.35	34.92	102	118	P	V
	*	5775	106.27	-	-	96.04	33.8	11.35	34.92	102	118	A	V
		5853.25	63.88	-50.91	114.79	53.42	34.01	11.33	34.88	102	118	P	V
		5865	64.48	-43.52	108	53.97	34.06	11.32	34.87	102	118	P	V
		5889.5	57.38	-37.06	94.44	46.77	34.16	11.3	34.85	102	118	P	V
		5929.75	54.72	-13.48	68.2	44.02	34.26	11.27	34.83	102	118	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
i802.11ac VHT80 CH 155 5775MHz		11550	47.17	-26.83	74	51.41	38.9	18.25	61.39	-	-	P	H
		17325	46.25	-21.95	68.2	42.31	38.5	23.04	57.6	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			11550	47.35	-26.65	74	51.59	38.9	18.25	61.39	-	-	P
		17325	45.63	-22.57	68.2	41.69	38.5	23.04	57.6	-	-	P	V
													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 Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



**Band 4 5725~5850MHz**

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

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 149 5745MHz		5638	49.95	-18.25	68.2	40.65	33.08	11.22	35	350	175	P	H	
		5691.8	51.05	-48.1	99.15	41.32	33.43	11.27	34.97	350	175	P	H	
		5720	56.65	-54.15	110.8	46.72	33.58	11.3	34.95	350	175	P	H	
		5722	57.86	-57.5	115.36	47.92	33.59	11.3	34.95	350	175	P	H	
	*	5745	112.13	-	-	102.07	33.68	11.32	34.94	350	175	P	H	
	*	5745	104	-	-	93.94	33.68	11.32	34.94	350	175	A	H	
														H
														H
			5645.2	52.52	-15.68	68.2	43.2	33.09	11.23	35	100	120	P	V
			5692.2	55.33	-44.12	99.45	45.59	33.44	11.27	34.97	100	120	P	V
			5713.8	58.38	-50.69	109.07	48.49	33.56	11.29	34.96	100	120	P	V
			5725	65.26	-56.94	122.2	55.31	33.6	11.3	34.95	100	120	P	V
	*		5745	118.03	-	-	107.97	33.68	11.32	34.94	100	120	P	V
	*		5745	110.87	-	-	100.81	33.68	11.32	34.94	100	120	A	V
														V
														V



WiFi Ant. 0+1	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5617	50.81	-17.39	68.2	41.58	33.03	11.21	35.01	300	177	P	H
		5650	50.07	-18.13	68.2	40.73	33.1	11.23	34.99	300	177	P	H
		5716	51.31	-58.37	109.68	41.41	33.56	11.29	34.95	300	177	P	H
		5720.5	51.8	-60.14	111.94	41.87	33.58	11.3	34.95	300	177	P	H
	*	5785	113.25	-	-	102.96	33.84	11.36	34.91	300	177	P	H
	*	5785	104.29	-	-	94	33.84	11.36	34.91	300	177	A	H
		5855	50.48	-60.32	110.8	40	34.02	11.33	34.87	300	177	P	H
		5859.25	51.07	-58.54	109.61	40.57	34.04	11.33	34.87	300	177	P	H
		5877.25	52.72	-50.81	103.53	42.16	34.11	11.31	34.86	300	177	P	H
		5943.5	51.14	-17.06	68.2	40.41	34.29	11.26	34.82	300	177	P	H
802.11ax													H
HE20 Full													H
CH 157		5630.5	53.47	-14.73	68.2	44.19	33.06	11.22	35	100	120	P	V
5785MHz		5693	52.98	-47.06	100.04	43.24	33.44	11.27	34.97	100	120	P	V
		5714.75	54.63	-54.7	109.33	44.74	33.56	11.29	34.96	100	120	P	V
		5724.25	54.21	-66.28	120.49	44.26	33.6	11.3	34.95	100	120	P	V
	*	5785	116.46	-	-	106.17	33.84	11.36	34.91	100	120	P	V
	*	5785	110.2	-	-	99.91	33.84	11.36	34.91	100	120	A	V
		5851.75	53.34	-64.87	118.21	42.88	34.01	11.33	34.88	100	120	P	V
		5855.25	52.84	-57.89	110.73	42.36	34.02	11.33	34.87	100	120	P	V
		5913.75	53.16	-23.34	76.5	42.49	34.23	11.28	34.84	100	120	P	V
		5940.5	51.42	-16.78	68.2	40.7	34.28	11.26	34.82	100	120	P	V
													V
													V



WiFi Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 165 5825MHz	*	5825	108.96	-	-	98.55	33.95	11.35	34.89	350	125	P	H	
	*	5825	102.86	-	-	92.45	33.95	11.35	34.89	350	125	A	H	
		5853.4	52.91	-61.54	114.45	42.45	34.01	11.33	34.88	350	125	P	H	
		5856.6	51.9	-58.45	110.35	41.41	34.03	11.33	34.87	350	125	P	H	
		5923.8	51.6	-17.48	69.08	40.9	34.25	11.28	34.83	350	125	P	H	
		5926.2	51.54	-16.66	68.2	40.84	34.25	11.28	34.83	350	125	P	H	
														H
														H
	*	5825	116.82	-	-	106.41	33.95	11.35	34.89	100	121	P	V	
	*	5825	109.46	-	-	99.05	33.95	11.35	34.89	100	121	A	V	
		5850.6	59.47	-61.36	120.83	49.02	34	11.33	34.88	100	121	P	V	
		5855.2	56.09	-54.65	110.74	45.61	34.02	11.33	34.87	100	121	P	V	
		5890.8	53.91	-39.56	93.47	43.3	34.16	11.3	34.85	100	121	P	V	
		5930.6	51.7	-16.5	68.2	41	34.26	11.27	34.83	100	121	P	V	
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE20 Full CH 149 5745MHz		11490	47.64	-26.36	74	51.69	39	18.21	61.26	-	-	P	H
		17235	47.04	-21.16	68.2	43.5	38.44	22.99	57.89	-	-	P	H
													H
													H
													H
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													H
													H
													H
													H
													H
													H
													H
													H
			11490	47.12	-26.88	74	51.17	39	18.21	61.26	-	-	P
		17235	47.29	-20.91	68.2	43.75	38.44	22.99	57.89	-	-	P	V
													V
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WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Full CH 157 5785MHz		11570	47.64	-26.36	74	52.01	38.82	18.26	61.45	-	-	P	H	
		17355	57.96	-10.24	68.2	53.8	38.61	23.06	57.51	210	40	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11570	47.96	-26.04	74	52.33	38.82	18.26	61.45	-	-	P	V
			17355	61.78	-6.42	68.2	57.62	38.61	23.06	57.51	100	62	P	V
														V
														V
														V
														V
														V
													V	
													V	



WiFi Ant. 0+1	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 165 5825MHz		11650	46.32	-27.68	74	51.07	38.6	18.31	61.66	-	-	P	H	
		17475	59.86	-8.34	68.2	55.22	38.65	23.12	57.13	213	40	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
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													H	
													H	
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													H	
													H	
													H	
													H	
			11650	47.65	-26.35	74	52.4	38.6	18.31	61.66	-	-	P	V
			17475	62.53	-5.67	68.2	57.89	38.65	23.12	57.13	101	64	P	V
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													





Band 4 5725~5850MHz

WIFI 802.11ax HE20\_Partial 106 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Partial 106/53 CH 149 5745MHz		5606.8	50.45	-17.75	68.2	41.26	33.01	11.2	35.02	100	156	P	H	
		5692.6	51.72	-48.02	99.74	41.98	33.44	11.27	34.97	100	156	P	H	
		5718.8	60.59	-49.87	110.46	50.66	33.58	11.3	34.95	100	156	P	H	
		5722.4	68.96	-47.31	116.27	59.02	33.59	11.3	34.95	100	156	P	H	
	*	5745	111.25	-	-	101.19	33.68	11.32	34.94	100	156	P	H	
	*	5745	103.54	-	-	93.48	33.68	11.32	34.94	100	156	A	H	
														H
														H
			5649.8	50.94	-17.26	68.2	41.6	33.1	11.23	34.99	100	116	P	V
			5693.6	52.79	-47.69	100.48	43.04	33.45	11.27	34.97	100	116	P	V
			5717	60.59	-49.37	109.96	50.67	33.57	11.3	34.95	100	116	P	V
			5724.8	65.28	-56.46	121.74	55.33	33.6	11.3	34.95	100	116	P	V
		*	5745	118.49	-	-	108.43	33.68	11.32	34.94	100	116	P	V
		*	5745	110.11	-	-	100.05	33.68	11.32	34.94	100	116	A	V
														V
														V



WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Partial 106/54 CH 165 5825MHz	*	5825	110.35	-	-	99.94	33.95	11.35	34.89	100	176	P	H	
	*	5825	102.25	-	-	91.84	33.95	11.35	34.89	100	176	A	H	
		5850.4	58.68	-62.61	121.29	48.23	34	11.33	34.88	100	176	P	H	
		5866	59.24	-48.48	107.72	48.73	34.06	11.32	34.87	100	176	P	H	
		5883.8	51.27	-47.4	98.67	40.68	34.14	11.31	34.86	100	176	P	H	
		5926.4	50.83	-17.37	68.2	40.13	34.25	11.28	34.83	100	176	P	H	
														H
														H
	*	5825	116.11	-	-	105.7	33.95	11.35	34.89	100	118	P	V	
	*	5825	109.04	-	-	98.63	33.95	11.35	34.89	100	118	A	V	
		5851.2	65.82	-53.64	119.46	55.37	34	11.33	34.88	100	118	P	V	
		5859.4	58.33	-51.24	109.57	47.83	34.04	11.33	34.87	100	118	P	V	
		5885.2	55.76	-41.87	97.63	45.17	34.14	11.31	34.86	100	118	P	V	
		5941.4	52.51	-15.69	68.2	41.79	34.28	11.26	34.82	100	118	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. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5649.5	50.28	-17.92	68.2	40.94	33.1	11.23	34.99	350	173	P	H
		5690.5	53.27	-44.93	98.2	43.55	33.42	11.27	34.97	350	173	P	H
		5711.75	61.46	-47.03	108.49	51.58	33.55	11.29	34.96	350	173	P	H
		5722.25	61.9	-54.03	115.93	51.96	33.59	11.3	34.95	350	173	P	H
	*	5755	107.78	-	-	97.66	33.72	11.33	34.93	350	173	P	H
	*	5755	100.27	-	-	90.15	33.72	11.33	34.93	350	173	A	H
		5850	51	-71.2	122.2	40.55	34	11.33	34.88	350	173	P	H
		5861	52.13	-56.99	109.12	41.64	34.04	11.32	34.87	350	173	P	H
		5885.5	51.85	-45.55	97.4	41.26	34.14	11.31	34.86	350	173	P	H
		5932.75	51.13	-17.07	68.2	40.42	34.27	11.27	34.83	350	173	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 151</b>		5646	54.15	-14.05	68.2	44.83	33.09	11.23	35	100	121	P	V
<b>5755MHz</b>		5699.25	56.32	-48.33	104.65	46.51	33.49	11.28	34.96	100	121	P	V
		5720	67.27	-43.53	110.8	57.34	33.58	11.3	34.95	100	121	P	V
		5723.5	69.61	-49.17	118.78	59.67	33.59	11.3	34.95	100	121	P	V
	*	5755	115.28	-	-	105.16	33.72	11.33	34.93	100	121	P	V
	*	5755	108.15	-	-	98.03	33.72	11.33	34.93	100	121	A	V
		5853	52.73	-62.63	115.36	42.27	34.01	11.33	34.88	100	121	P	V
		5859.75	52.98	-56.49	109.47	42.48	34.04	11.33	34.87	100	121	P	V
		5894	52.61	-38.49	91.1	41.98	34.18	11.3	34.85	100	121	P	V
		5930.75	51.68	-16.52	68.2	40.98	34.26	11.27	34.83	100	121	P	V
													V
													V



WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5634.75	50.34	-17.86	68.2	41.05	33.07	11.22	35	300	176	P	H
		5652.25	50.9	-18.97	69.87	41.53	33.12	11.24	34.99	300	176	P	H
		5705	51.31	-55.29	106.6	41.47	33.52	11.28	34.96	300	176	P	H
		5725	50.79	-71.41	122.2	40.84	33.6	11.3	34.95	300	176	P	H
	*	5795	108.96	-	-	98.62	33.88	11.37	34.91	300	176	P	H
	*	5795	101.53	-	-	91.19	33.88	11.37	34.91	300	176	A	H
		5850.25	50.97	-70.66	121.63	40.52	34	11.33	34.88	300	176	P	H
		5855.75	51.49	-59.1	110.59	41.01	34.02	11.33	34.87	300	176	P	H
		5913.75	51.85	-24.65	76.5	41.18	34.23	11.28	34.84	300	176	P	H
		5936.5	51.17	-17.03	68.2	40.46	34.27	11.27	34.83	300	176	P	H
802.11ax													H
HE40 Full													H
CH 159		5637.25	53.71	-14.49	68.2	44.42	33.07	11.22	35	100	120	P	V
5795MHz		5697.75	56.35	-47.19	103.54	46.56	33.48	11.28	34.97	100	120	P	V
		5713.25	56.85	-52.06	108.91	46.97	33.55	11.29	34.96	100	120	P	V
		5722.25	55.65	-60.28	115.93	45.71	33.59	11.3	34.95	100	120	P	V
	*	5795	115.87	-	-	105.53	33.88	11.37	34.91	100	120	P	V
	*	5795	107.87	-	-	97.53	33.88	11.37	34.91	100	120	A	V
		5852.75	54.66	-61.27	115.93	44.2	34.01	11.33	34.88	100	120	P	V
		5855.25	54.73	-56	110.73	44.25	34.02	11.33	34.87	100	120	P	V
		5895.5	54.28	-35.71	89.99	43.65	34.18	11.3	34.85	100	120	P	V
		5943.25	53.82	-14.38	68.2	43.09	34.29	11.26	34.82	100	120	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE40 Full CH 151 5755MHz		11510	46.59	-27.41	74	50.67	38.98	18.23	61.29	-	-	P	H	
		17265	53	-15.2	68.2	49.31	38.47	23.01	57.79	198	132	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11510	46.18	-27.82	74	50.26	38.98	18.23	61.29	-	-	P	V
			17265	59.01	-9.19	68.2	55.32	38.47	23.01	57.79	101	63	P	V
														V
														V
														V
														V
													V	
													V	
													V	



WiFi Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE40 Full CH 159 5795MHz		11590	46.1	-27.9	74	50.59	38.74	18.27	61.5	-	-	P	H	
		17385	54.33	-13.87	68.2	50	38.67	23.07	57.41	212	41	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11590	47.25	-26.75	74	51.74	38.74	18.27	61.5	-	-	P	V
			17385	57.86	-10.34	68.2	53.53	38.67	23.07	57.41	100	62	P	V
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													



Band 4 5725~5850MHz

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

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
		5641.25	57.79	-10.41	68.2	48.48	33.08	11.23	35	100	177	P	H	
		5693	72.92	-27.12	100.04	63.18	33.44	11.27	34.97	100	177	P	H	
		5717.25	73.35	-36.68	110.03	63.43	33.57	11.3	34.95	100	177	P	H	
		5721.75	75.3	-39.49	114.79	65.36	33.59	11.3	34.95	100	177	P	H	
	*	5755	108.5	-	-	98.38	33.72	11.33	34.93	100	177	P	H	
	*	5755	101.16	-	-	91.04	33.72	11.33	34.93	100	177	A	H	
		5852.75	59.43	-56.5	115.93	48.97	34.01	11.33	34.88	100	177	P	H	
		5872	58.57	-47.47	106.04	48.02	34.09	11.32	34.86	100	177	P	H	
		5879.5	58.34	-43.52	101.86	47.77	34.12	11.31	34.86	100	177	P	H	
		5926	52.63	-15.57	68.2	41.93	34.25	11.28	34.83	100	177	P	H	
802.11ax HE40 Partial 242/61 CH 151 5755MHz													H	
													H	
			5643.5	64.48	-3.72	68.2	55.16	33.09	11.23	35	100	118	P	V
			5694.25	78.37	-22.59	100.96	68.62	33.45	11.27	34.97	100	118	P	V
			5720	79.2	-31.6	110.8	69.27	33.58	11.3	34.95	100	118	P	V
			5722.5	81.87	-34.63	116.5	71.93	33.59	11.3	34.95	100	118	P	V
		*	5755	116.34	-	-	106.22	33.72	11.33	34.93	100	118	P	V
		*	5755	108.5	-	-	98.38	33.72	11.33	34.93	100	118	A	V
			5855	61.6	-49.2	110.8	51.12	34.02	11.33	34.87	100	118	P	V
			5859.5	63.42	-46.12	109.54	52.92	34.04	11.33	34.87	100	118	P	V
			5876.25	59.24	-45.03	104.27	48.69	34.1	11.31	34.86	100	118	P	V
			5938.5	52.48	-15.72	68.2	41.76	34.28	11.27	34.83	100	118	P	V
														V
														V



WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE40 Partial 242/62 CH 159 5795MHz		5642.25	53.48	-14.72	68.2	44.17	33.08	11.23	35	100	175	P	H	
		5691.75	56.35	-42.77	99.12	46.62	33.43	11.27	34.97	100	175	P	H	
		5716	57.1	-52.58	109.68	47.2	33.56	11.29	34.95	100	175	P	H	
		5724.75	60.59	-61.04	121.63	50.64	33.6	11.3	34.95	100	175	P	H	
	*	5795	108.92	-	-	98.58	33.88	11.37	34.91	100	175	P	H	
	*	5795	101.15	-	-	90.81	33.88	11.37	34.91	100	175	A	H	
		5850.5	65.43	-55.63	121.06	54.98	34	11.33	34.88	100	175	P	H	
		5856	62.14	-48.38	110.52	51.66	34.02	11.33	34.87	100	175	P	H	
		5877.5	59.53	-43.81	103.34	48.97	34.11	11.31	34.86	100	175	P	H	
		5927.75	56.49	-11.71	68.2	45.79	34.26	11.27	34.83	100	175	P	H	
														H
														H
			5649	59.34	-8.86	68.2	50	33.1	11.23	34.99	100	116	P	V
			5687.5	62.02	-33.96	95.98	52.32	33.4	11.27	34.97	100	116	P	V
			5718.25	63.42	-46.89	110.31	53.5	33.57	11.3	34.95	100	116	P	V
			5722.5	65.26	-51.24	116.5	55.32	33.59	11.3	34.95	100	116	P	V
	*		5795	114.96	-	-	104.62	33.88	11.37	34.91	100	116	P	V
	*		5795	107.36	-	-	97.02	33.88	11.37	34.91	100	116	A	V
			5852	65.36	-52.28	117.64	54.9	34.01	11.33	34.88	100	116	P	V
			5860	65.35	-44.05	109.4	54.86	34.04	11.32	34.87	100	116	P	V
		5878	62.39	-40.58	102.97	51.83	34.11	11.31	34.86	100	116	P	V	
		5942.75	56.57	-11.63	68.2	45.84	34.29	11.26	34.82	100	116	P	V	
													V	
													V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													





Band 4 5725~5850MHz

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

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5631.75	50.98	-17.22	68.2	41.7	33.06	11.22	35	300	177	P	H
		5700	61.53	-43.67	105.2	51.71	33.5	11.28	34.96	300	177	P	H
		5719.25	66.42	-44.17	110.59	56.49	33.58	11.3	34.95	300	177	P	H
		5722.5	66.95	-49.55	116.5	57.01	33.59	11.3	34.95	300	177	P	H
	*	5775	107.59	-	-	97.36	33.8	11.35	34.92	300	177	P	H
	*	5775	99.67	-	-	89.44	33.8	11.35	34.92	300	177	A	H
		5854.5	60.75	-51.19	111.94	50.27	34.02	11.33	34.87	300	177	P	H
		5856.25	59.56	-50.89	110.45	49.07	34.03	11.33	34.87	300	177	P	H
		5878.25	54.11	-48.68	102.79	43.55	34.11	11.31	34.86	300	177	P	H
		5932	51.4	-16.8	68.2	40.7	34.26	11.27	34.83	300	177	P	H
802.11ax													H
HE80 Full													H
CH 155		5646.5	58.37	-9.83	68.2	49.05	33.09	11.23	35	100	121	P	V
5775MHz		5700	67.15	-38.05	105.2	57.33	33.5	11.28	34.96	100	121	P	V
		5719	68.73	-41.79	110.52	58.8	33.58	11.3	34.95	100	121	P	V
		5721.75	71.2	-43.59	114.79	61.26	33.59	11.3	34.95	100	121	P	V
	*	5775	114.23	-	-	104	33.8	11.35	34.92	100	121	P	V
	*	5775	105.98	-	-	95.75	33.8	11.35	34.92	100	121	A	V
		5852.5	65.6	-50.9	116.5	55.14	34.01	11.33	34.88	100	121	P	V
		5864.25	64.18	-44.03	108.21	53.67	34.06	11.32	34.87	100	121	P	V
		5876	58.91	-45.55	104.46	48.36	34.1	11.31	34.86	100	121	P	V
		5941.75	55.67	-12.53	68.2	44.95	34.28	11.26	34.82	100	121	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE80 Full CH 155 5775MHz		11550	46.57	-27.43	74	50.81	38.9	18.25	61.39	-	-	P	H	
		17325	47.21	-20.99	68.2	43.27	38.5	23.04	57.6	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11550	47.5	-26.5	74	51.74	38.9	18.25	61.39	-	-	P	V
			17325	54.77	-13.43	68.2	50.83	38.5	23.04	57.6	102	64	P	V
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													



Band 4 5725~5850MHz

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

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5641.75	59.8	-8.4	68.2	50.49	33.08	11.23	35	100	155	P	H
		5696.5	64.08	-38.54	102.62	54.3	33.47	11.28	34.97	100	155	P	H
		5717.75	68	-42.17	110.17	58.08	33.57	11.3	34.95	100	155	P	H
		5721.75	67.92	-46.87	114.79	57.98	33.59	11.3	34.95	100	155	P	H
	*	5775	104.87	-	-	94.64	33.8	11.35	34.92	100	155	P	H
	*	5775	97.86	-	-	87.63	33.8	11.35	34.92	100	155	A	H
		5852.25	66.74	-50.33	117.07	56.28	34.01	11.33	34.88	100	155	P	H
		5872	68.51	-37.53	106.04	57.96	34.09	11.32	34.86	100	155	P	H
		5876	65.75	-38.71	104.46	55.2	34.1	11.31	34.86	100	155	P	H
802.11ax		5931.5	55	-13.2	68.2	44.3	34.26	11.27	34.83	100	155	P	H
HE80													H
Partial													H
484/65		5628.25	66.65	-1.55	68.2	57.38	33.06	11.22	35.01	100	116	P	V
CH 155		5693.75	70.28	-30.31	100.59	60.53	33.45	11.27	34.97	100	116	P	V
5775MHz		5713	74.08	-34.76	108.84	64.2	33.55	11.29	34.96	100	116	P	V
		5724	73.69	-46.23	119.92	63.74	33.6	11.3	34.95	100	116	P	V
	*	5775	112.29	-	-	102.06	33.8	11.35	34.92	100	116	P	V
	*	5775	104.42	-	-	94.19	33.8	11.35	34.92	100	116	A	V
		5853.75	72.73	-40.92	113.65	62.26	34.01	11.33	34.87	100	116	P	V
		5873	74.67	-31.09	105.76	64.12	34.09	11.32	34.86	100	116	P	V
		5879	69.96	-32.27	102.23	59.39	34.12	11.31	34.86	100	116	P	V
		5927.75	64.63	-3.57	68.2	53.93	34.26	11.27	34.83	100	116	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE80 Partial 484/66 CH 155 5775MHz		5641.5	58.94	-9.26	68.2	49.63	33.08	11.23	35	100	176	P	H	
		5692	62.92	-36.38	99.3	53.18	33.44	11.27	34.97	100	176	P	H	
		5715.75	67.82	-41.79	109.61	57.92	33.56	11.29	34.95	100	176	P	H	
		5721.25	69.31	-44.34	113.65	59.38	33.58	11.3	34.95	100	176	P	H	
	*	5775	104.73	-	-	94.5	33.8	11.35	34.92	100	176	P	H	
	*	5775	96.65	-	-	86.42	33.8	11.35	34.92	100	176	A	H	
		5853	67.08	-48.28	115.36	56.62	34.01	11.33	34.88	100	176	P	H	
		5858.75	68.91	-40.84	109.75	58.42	34.03	11.33	34.87	100	176	P	H	
		5876	64.66	-39.8	104.46	54.11	34.1	11.31	34.86	100	176	P	H	
		5928.5	58.55	-9.65	68.2	47.85	34.26	11.27	34.83	100	176	P	H	
														H
														H
			5643.25	66.9	-1.3	68.2	57.58	33.09	11.23	35	100	117	P	V
			5689.25	69.29	-27.98	97.27	59.58	33.41	11.27	34.97	100	117	P	V
			5713.5	74.45	-34.53	108.98	64.57	33.55	11.29	34.96	100	117	P	V
			5724	74.48	-45.44	119.92	64.53	33.6	11.3	34.95	100	117	P	V
	*		5775	111.45	-	-	101.22	33.8	11.35	34.92	100	117	P	V
	*		5775	103.76	-	-	93.53	33.8	11.35	34.92	100	117	A	V
			5853.25	75.35	-39.44	114.79	64.89	34.01	11.33	34.88	100	117	P	V
			5873	74.26	-31.5	105.76	63.71	34.09	11.32	34.86	100	117	P	V
		5878.25	68.35	-34.44	102.79	57.79	34.11	11.31	34.86	100	117	P	V	
		5929	65.8	-2.4	68.2	55.1	34.26	11.27	34.83	100	117	P	V	
													V	
													V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Emission below 1GHz

5GHz WIFI 802.11ax HE80 (LF @ 3m)

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level (dBµV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
5GHz 802.11ax HE80 LF		31.35	22.32	-17.68	40	30.25	23.51	1	32.44	-	-	P	H	
		122.88	18.81	-24.69	43.5	31.59	17.41	1.89	32.08	-	-	P	H	
		297.84	20.62	-25.38	46	30.55	19.05	2.84	31.82	-	-	P	H	
		755	31.64	-14.36	46	30.75	28.04	4.38	31.53	-	-	P	H	
		846	32.91	-13.09	46	31.13	28.85	4.56	31.63	-	-	P	H	
		948.2	34.1	-11.9	46	29.77	30.46	4.89	31.02	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
														H
			31.62	22.44	-17.56	40	30.51	23.37	1	32.44	-	-	P	V
			59.97	22.8	-17.2	40	41.74	11.79	1.38	32.11	-	-	P	V
			122.88	22.93	-20.57	43.5	35.71	17.41	1.89	32.08	-	-	P	V
			755.7	31.95	-14.05	46	31.05	28.05	4.38	31.53	-	-	P	V
			906.9	33.05	-12.95	46	30.91	28.95	4.62	31.43	-	-	P	V
			947.5	34.41	-11.59	46	30.12	30.42	4.89	31.02	-	-	P	V
													V	
													V	
													V	
													V	
													V	
Remark	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against limit line.</li> <li>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.</li> </ol>													



**Note symbol**

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



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

WIFI Ant. 0+1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11a 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 @ 5650MHz:**

- 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)

**Peak measured complies with the limit line, so test result is “PASS”.**



# Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Fu Chen, Sam Chou and Troye Hsieh	Temperature :	18.1~20.8°C
		Relative Humidity :	47.2~66.1%

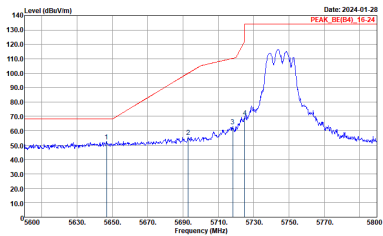
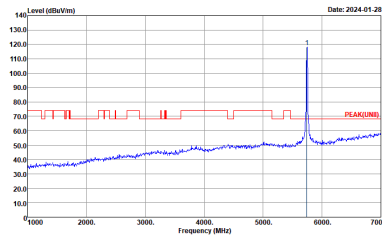
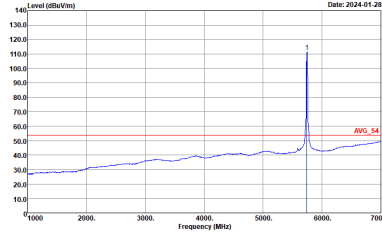
**Band 4 - 5725~5850MHz**

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

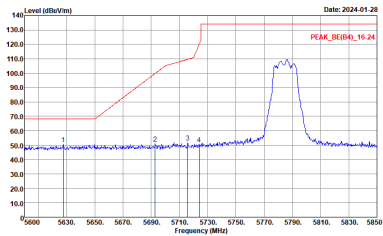
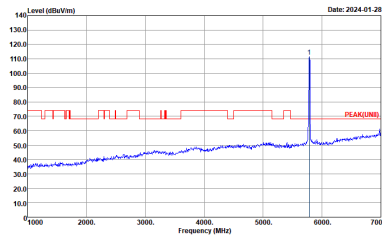
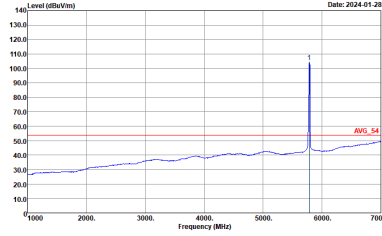
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(UNB) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_8E(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

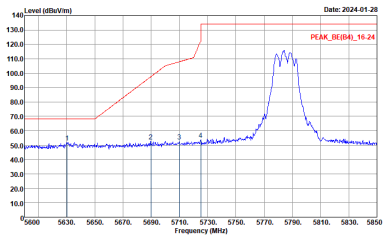
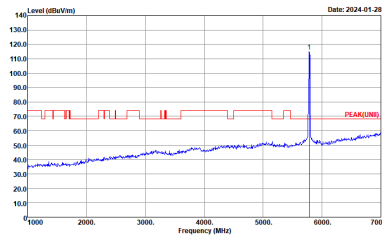
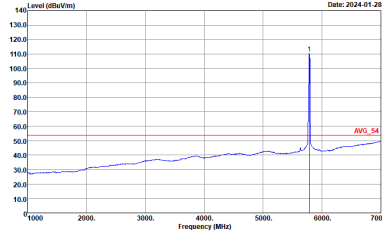


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

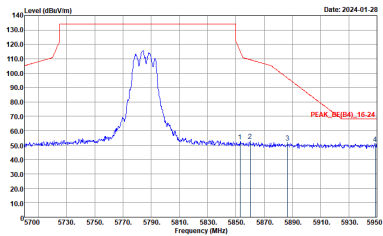


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 09CH11-HV Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank

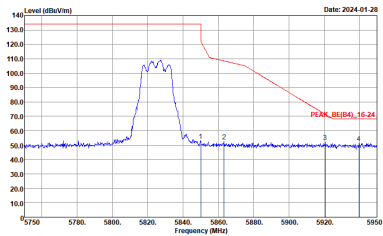
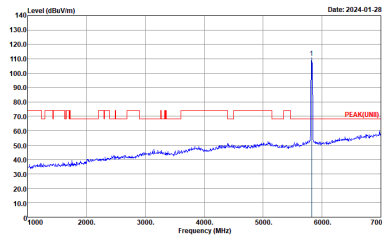
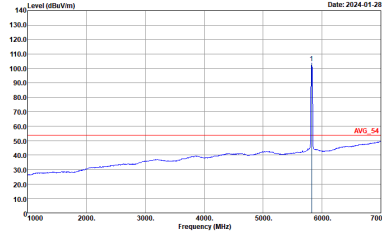


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

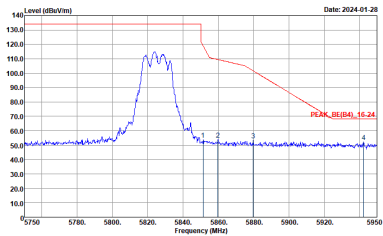
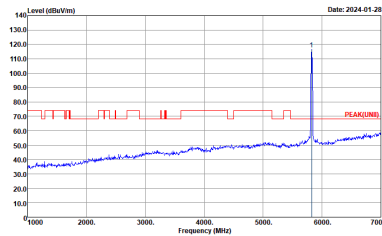
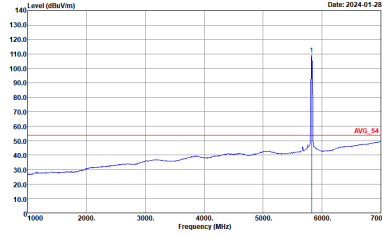


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 09CH11-HV Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_8E(84)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LINB) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 09CHI1-HV Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak	<p>Site : 09CHI1-HV Condition : PEAK_SE(84)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



Band 4 - 5725~5850MHz

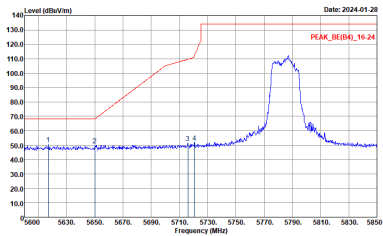
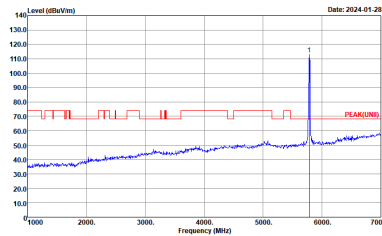
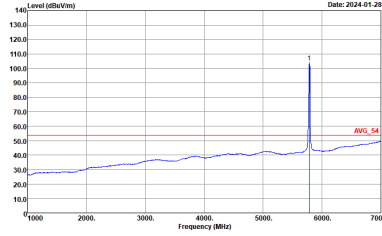
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(84)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)I 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_S4 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

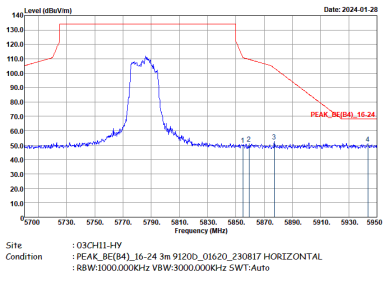


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
0+1	Vertical	Fundamental
Peak	<p>Date: 2024-01-28 PEAK_BE(B4)_16-24</p> <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Date: 2024-01-28 PEAK(LINE)</p> <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Date: 2024-01-28 AVG_54</p> <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CHI1-HY Condition : PEAK_BE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CHI1-HY Condition : PEAK(LINE) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CHI1-HY Condition : AV6_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 09CHI1-HV Condition : PEAK_SC(84)_16-24 3m 91200_01620_230817 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



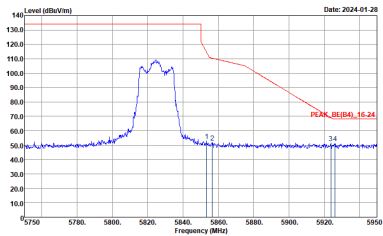
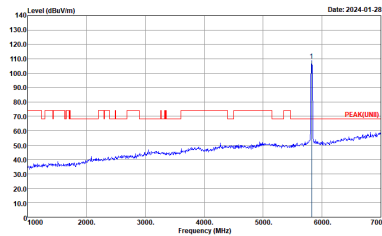
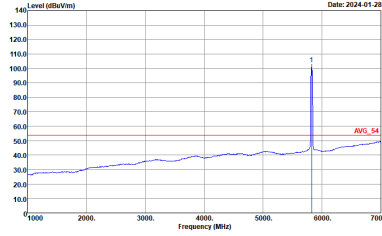
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
0+1	Vertical	Fundamental
Peak		
Avg	Left blank	



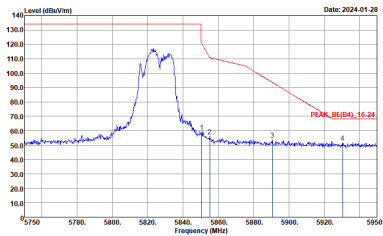
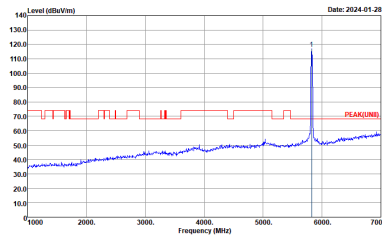
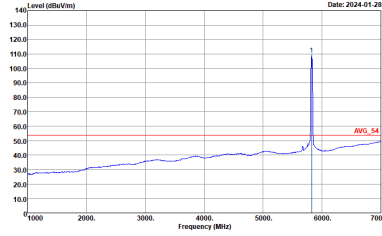


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
0+1	Vertical	Fundamental
Peak	<p>Site : 09CHI1-HV Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CHI1-HY Condition : PEAK_06(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CHI1-HY Condition : PEAK(LINE) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CHI1-HY Condition : AV6_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_SE[94]_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK[LINE] 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

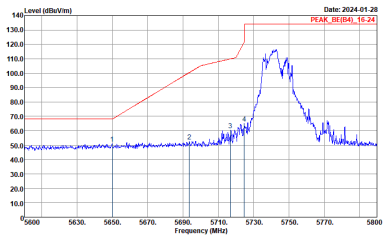
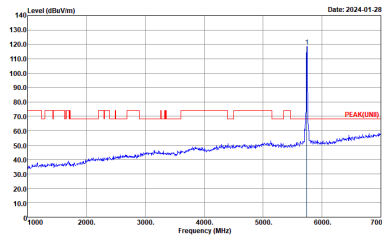
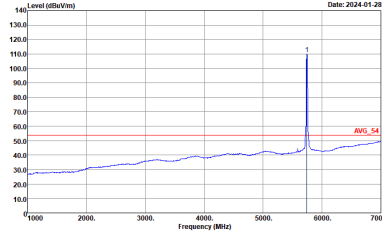


Band 4 5725~5850MHz

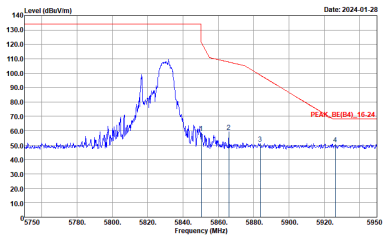
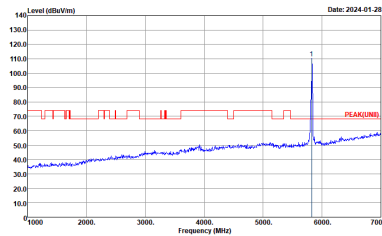
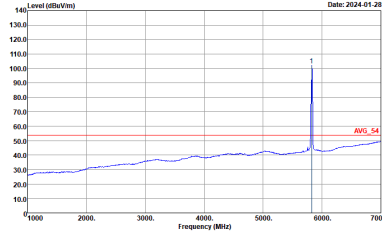
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(84)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

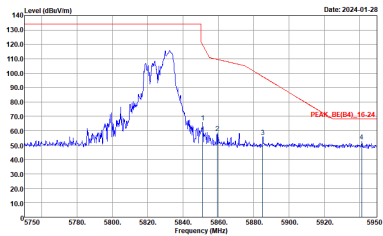
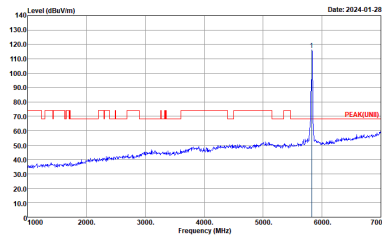
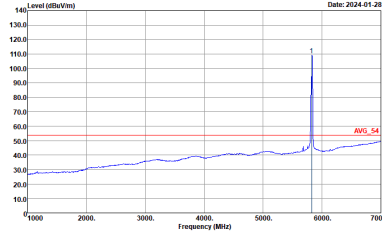


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_05[04]_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AV6_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_8E(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH11-HY Condition : AV6_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BI(B4)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



Band 4 5725~5850MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

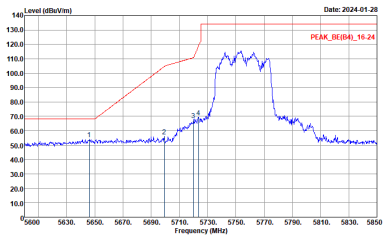
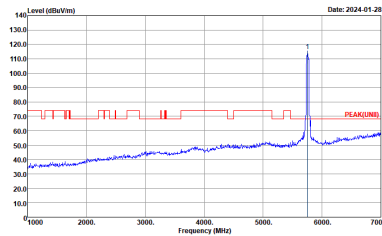
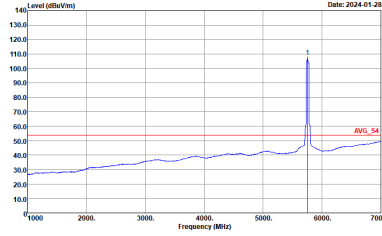
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LINB) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 09CHI1-HV Condition : PEAK_SC(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank

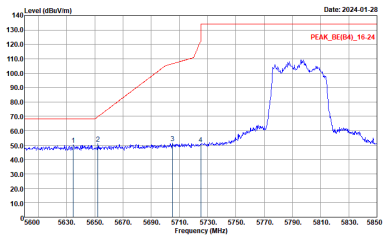
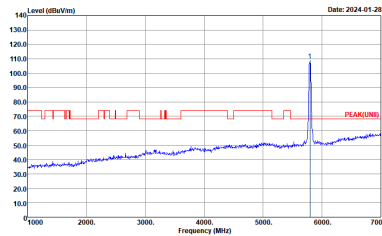
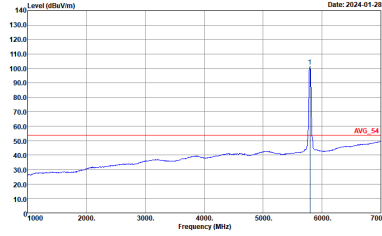


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
0+1	Vertical	Fundamental
Peak	<p>Site : 09CHI1-HV Condition : PEAK_SC(04)_16-24 3m 91200_01620_230817 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	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 09CHI1-HV Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 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	
0+1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_RE(B4)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
0+1	Vertical	Fundamental
Peak	<p>Site : 09CH11-HV Condition : PEAK_SE(04)_16-24 3m 91200_01620_230817 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



Band 4 5725~5850MHz

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

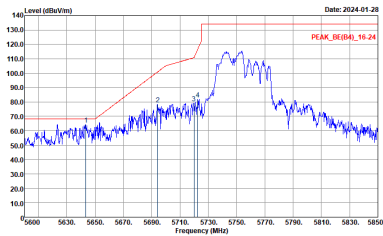
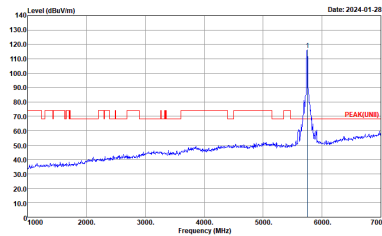
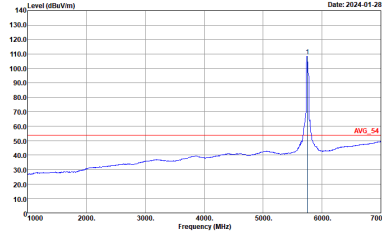
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LINII) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VSW:0.010KHz SWT:Auto</p>



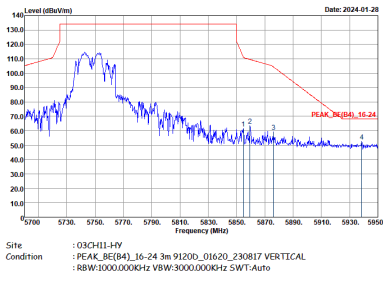


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HV Condition : PEAK_05(04)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

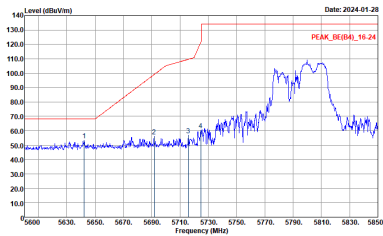
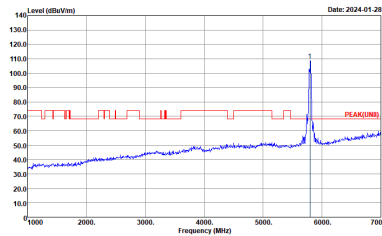
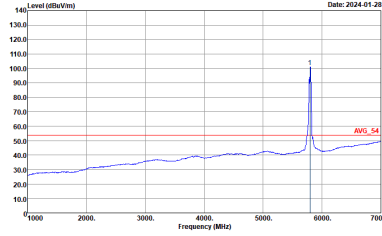


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(04)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE)3 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HV Condition : PEAK_05(04)_16-24 3m 91200_01620_230817 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

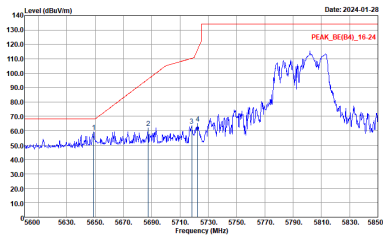
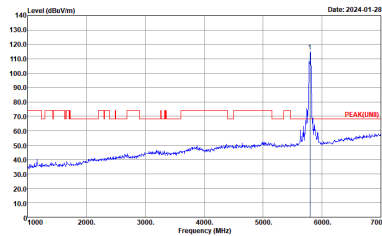
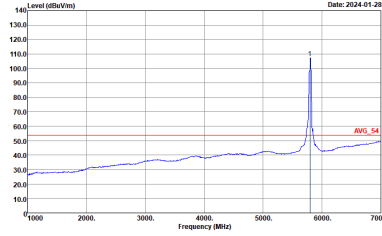


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_SE(84)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

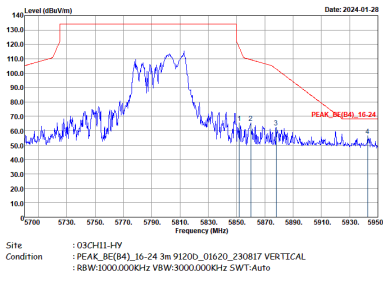


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 08CH11-HV Condition : PEAK_36(84)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CHI1-HY Condition : PEAK_BE(04)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CHI1-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HV Condition : PEAK_06(04)_16-24 3m 91200_01620_230817 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



Band 4 5725~5850MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

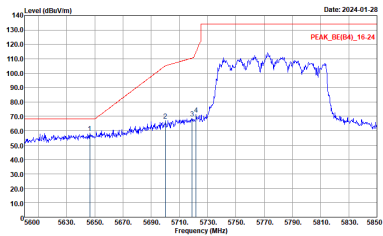
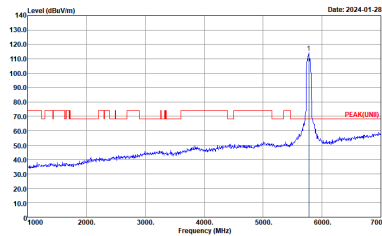
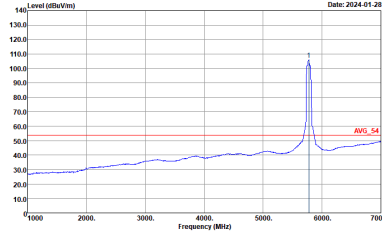
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN3) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



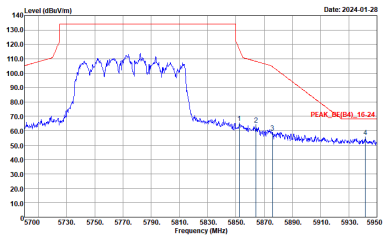


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 09CHI1-HV Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CHI1-HY Condition : PEAK_BE(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CHI1-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 09CHI1-HV Condition : PEAK_SE(04)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



Band 4 5725~5850MHz

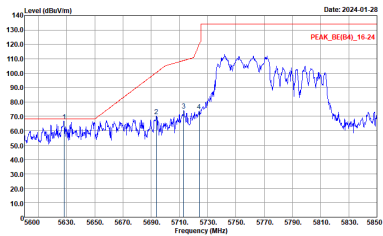
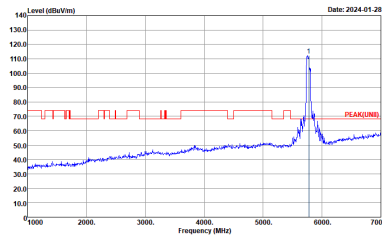
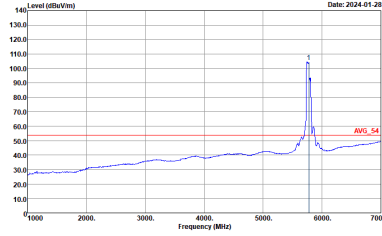
WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(04)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN0) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

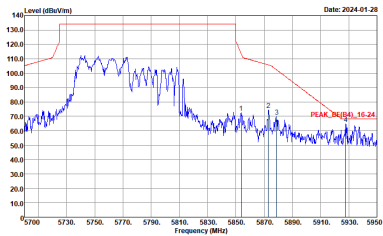


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 09CH11-HV Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank

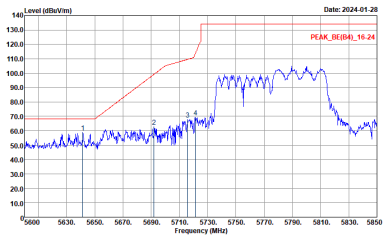
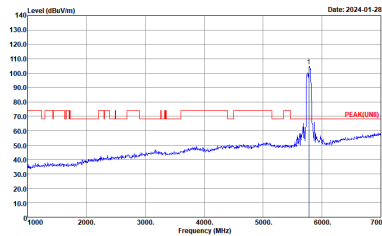
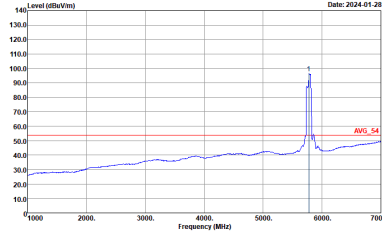


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 09CH11-HV Condition : PEAK_16(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



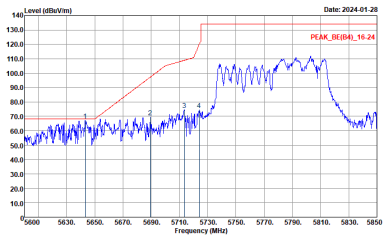
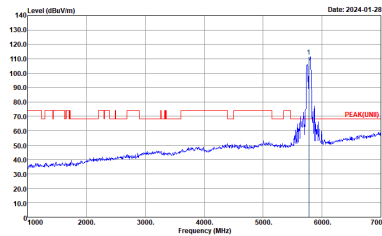
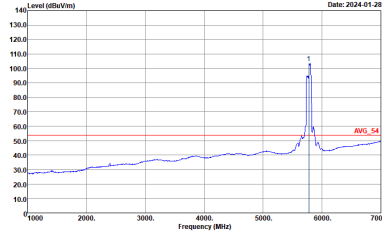
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CHI1-HY Condition : PEAK_BE(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CHI1-HY Condition : PEAK(LINE) 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak	<p>Site : 09CH11-HV Condition : PEAK_SC(94)_16-24 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CHI1-HY Condition : PEAK_BE(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CHI1-HY Condition : PEAK(LINE) 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak	<p>Site : 09CHI1-HV Condition : PEAK_SE(94)_16-24 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank

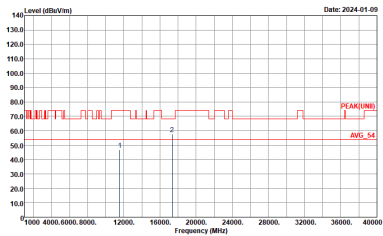
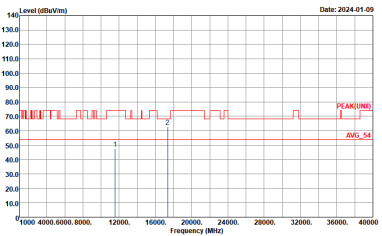


Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-4Y Condition : PEAK(UNII) 3m 91200_01620_230817 HORIZONTAL :</p>	<p>Site : 03CH11-4Y Condition : PEAK(UNII) 3m 91200_01620_230817 VERTICAL :</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH11-HY Condition : PEAK(UNEI) 3m 91200_01620_230817 HORIZONTAL :</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNEI) 3m 91200_01620_230817 VERTICAL :</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 91200_01620_230817 HORIZONTAL :</p>	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 91200_01620_230817 VERTICAL :</p>



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL :</p>	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9120D_01620_230817 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	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL :</p>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m 9120D_01620_230817 VERTICAL :</p>





WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK(UNEI) 3m 91200_01620_230817 HORIZONTAL :</p>	<p>Site : 03CH11-HY Condition : PEAK(UNEI) 3m 91200_01620_230817 VERTICAL :</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH165 5825MHz</b>	
<b>0+1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-HY Condition : PEAK(UNEI) 3m 91200_01620_230817 HORIZONTAL :</p>	<p>Site : 03CH11-HY Condition : PEAK(UNEI) 3m 91200_01620_230817 VERTICAL :</p>

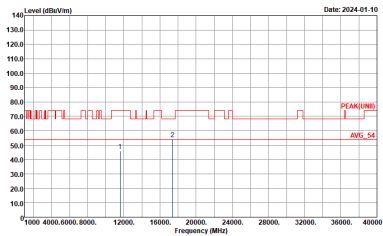
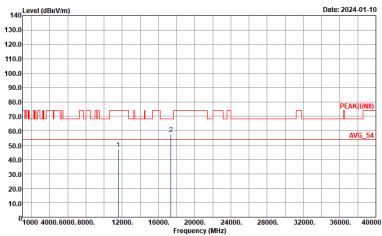


Band 4 5725~5850MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL :</p>	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9120D_01620_230817 VERTICAL :</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
0+1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNEI) 3m 91200_01620_230817 HORIZONTAL :</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNEI) 3m 91200_01620_230817 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	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL :</p>	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9120D_01620_230817 VERTICAL :</p>



Emission below 1GHz

5GHz WIFI 802.11ax HE80 (LF @ 3m)

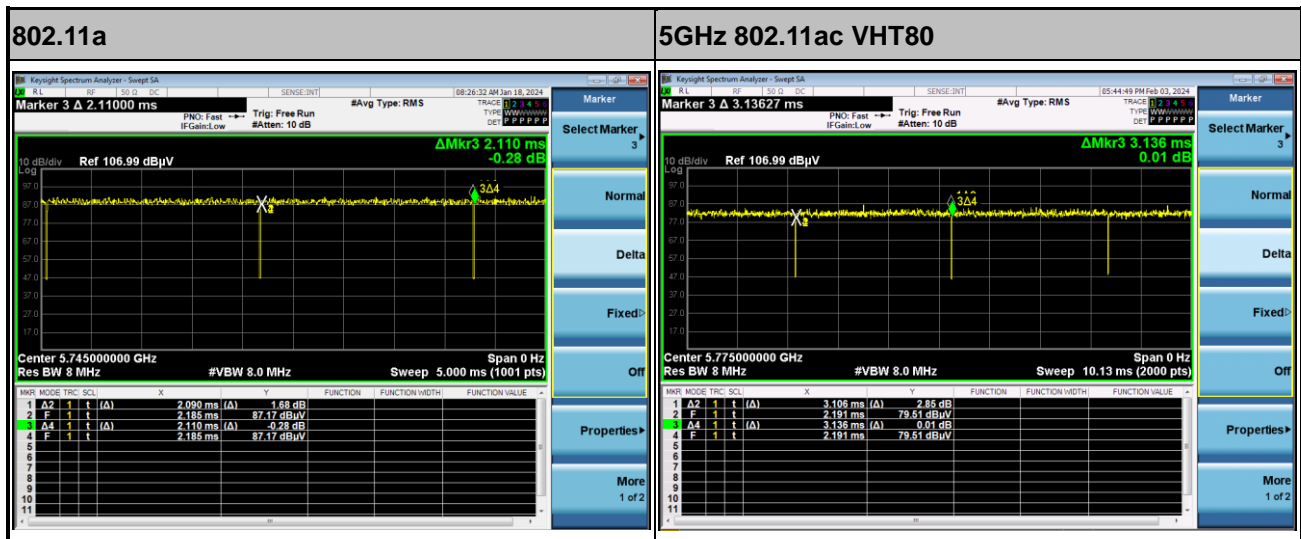
WIFI	5GHz WIFI	
ANT	802.11ax HE80 LF	
0+1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH11-HY Condition : QP 3m 2_BILO6_35414_231007 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : QP 3m 2_BILO6_35414_231007 VERTICAL</p>



## Appendix E. Duty Cycle Plots

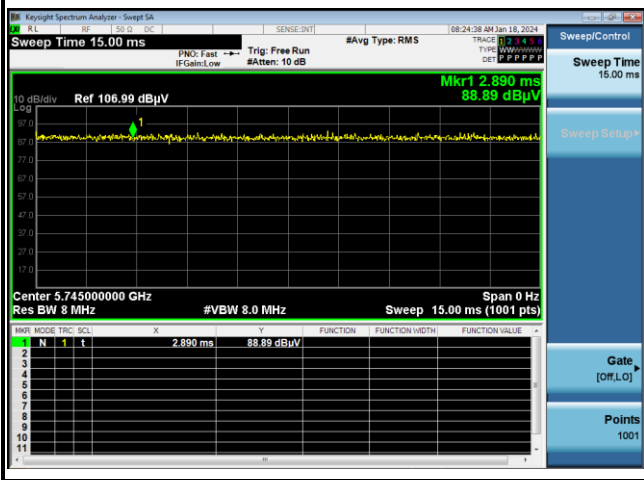
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0+1	802.11a	99.05	-	-	10Hz
0+1	5GHz 802.11ac VHT80	99.04	-	-	10Hz
0+1	5GHz 802.11ax HE20 Full RU	100.00	-	-	10Hz
0+1	5GHz 802.11ax HE20 106 RU	99.37	-	-	10Hz
0+1	5GHz 802.11ax HE40 Full RU	98.45	-	-	10Hz
0+1	5GHz 802.11ax HE40 242 RU	99.28	-	-	10Hz
0+1	5GHz 802.11ax HE80 Full RU	99.07	-	-	10Hz
0+1	5GHz 802.11ax HE80 484 RU	98.60	-	-	10Hz

### MIMO <Ant. 0+1>

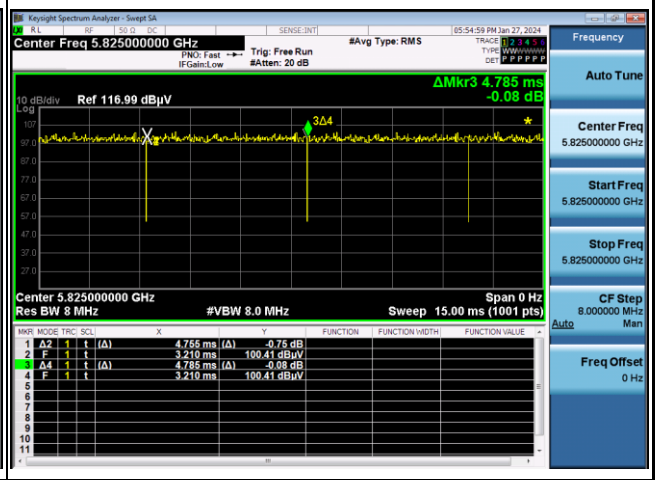




5GHz 802.11ax HE20 Full RU



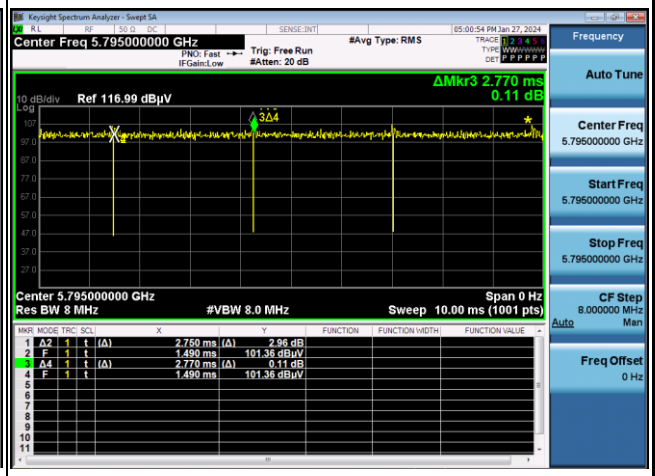
5GHz 802.11ax HE20 106 RU



5GHz 802.11ax HE40 Full RU



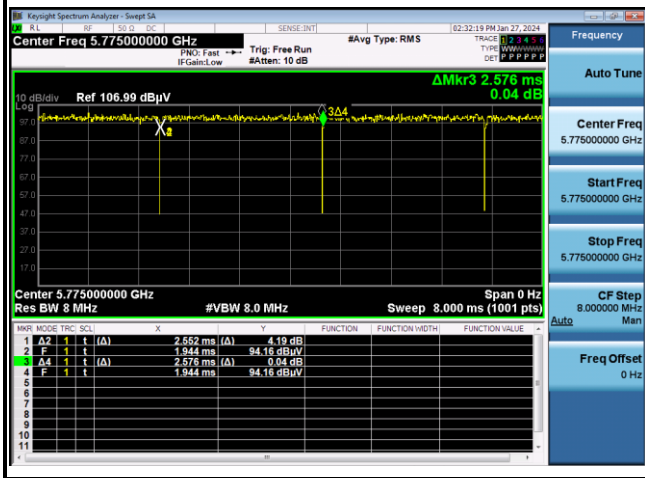
5GHz 802.11ax HE40 242 RU







5GHz 802.11ax HE80 Full RU



5GHz 802.11ax HE80 484 RU

