



# FCC RADIO TEST REPORT

**FCC ID** : J9CQCARD7280N2  
**Equipment** : QCARD7280  
**Brand Name** : Qualcomm  
**Model Name** : QCARD7280N2  
**Applicant** : Qualcomm Technologies, Inc.  
5775 Morehouse Drive, San Diego,  
California 92121, United State  
**Manufacturer** : Qualcomm Semiconductor Limited  
No. 16-1 Zhanye 2nd Rd. East District  
Hsinchu City, 300091 (Taiwan)  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Feb. 16, 2022 and testing was performed from Apr. 20, 2022 to Aug. 11, 2022. 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
FR1N1011E	01	Initial issue of report	Aug. 16, 2022
FR1N1011E	02	1. Revise Antenna information and brand name 2. Add description of test mode in section 2.2. 3. Add description of test procedures in section 3.4.3.	Sep. 12, 2022



### 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	1.56 dB under the limit at 5649.000 MHz
-	15.207	AC Conducted Emission	Not Required	-
3.5	15.203 15.407(a)	Antenna Requirement	Pass	-

**Note:** Not required means after assessing, test items are not necessary to carry out.

Declaration of Conformity:
<p>1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.</p> <p>2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".</p>
Comments and Explanations:
The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Avis Chuang**

**Report Producer: Cindy Liu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and Wi-Fi 6GHz 802.11a/n/ac/ax.

Antenna Information								
Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (MHz)	Ant. Type	Connector Type	Cable Length (mm)
A	Chain0/1	HONG BO	260-25094	3.53	2.4~2.4835 GHz	PIFA	i-pex (MHF 4L)	300mm
				3.06	5.15~5.25 GHz			
				3.07	5.25~5.35 GHz			
				4.81	5.47~5.725 GHz			
				4.2	5.725~5.850 GHz			
B	Chain0/1	HONG BO	260-25083	5.09	5.850~5.895 GHz	PIFA	i-pex (MHF 4L)	300mm
				5.14	5.925~6.425 GHz			
				5.09	6.425~6.525 GHz			
				5.16	6.525~6.875 GHz			
				5.12	6.875~7.125 GHz			
C	Chain0/1	HONG BO	260-25084	3.22	2.4~2.4835 GHz	Monopole	i-pex (MHF 4L)	200mm
				3.35	5.15~5.25 GHz			
				3.42	5.25~5.35 GHz			
				4.77	5.47~5.725 GHz			
				4.72	5.725~5.850 GHz			
				4.71	5.850~5.895 GHz			
				4.75	5.925~6.425 GHz			
				4.29	6.425~6.525 GHz			
				4.81	6.525~6.875 GHz			
				4.74	6.875~7.125 GHz			

**Remark:**

1. Ant. 5 means Chain 0 and Ant. 4 means Chain 1.
2. The maximum gain was chosen for test.
3. The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.



### 1.2 Modification of EUT

No modifications made to the EUT during the testing.

### 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, 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, 03CH15-HY

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

FCC designation No.: TW3786

### 1.4 Applicable Standards

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

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

**Remark:**

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



## 2 Test Configuration of Equipment Under Test

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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

### 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

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 802.11n/ac mode has no higher power and PSD than 802.11ax mode, thus the 802.11ax mode is chosen as main test configuration, and the 802.11n/ac mode is verified the power.

The final test modes consider the modulation and the worst data rates as shown in the table below.

### MIMO Mode

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

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

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

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



### 2.3 Connection Diagram of Test System



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

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Power Supply	GW Instek	GET874629	N/A	N/A	Unshielded, 1.8 m
3.	Fixture	Qualcomm	20-33568-H1	N/A	N/A	N/A



## 2.5 EUT Operation Test Setup

The RF test items, utility “QRCT v4.0.00195.0” 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.

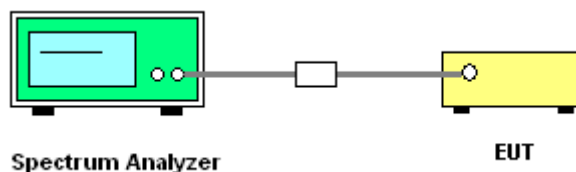
##### 3.1.2 Measuring Instruments

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



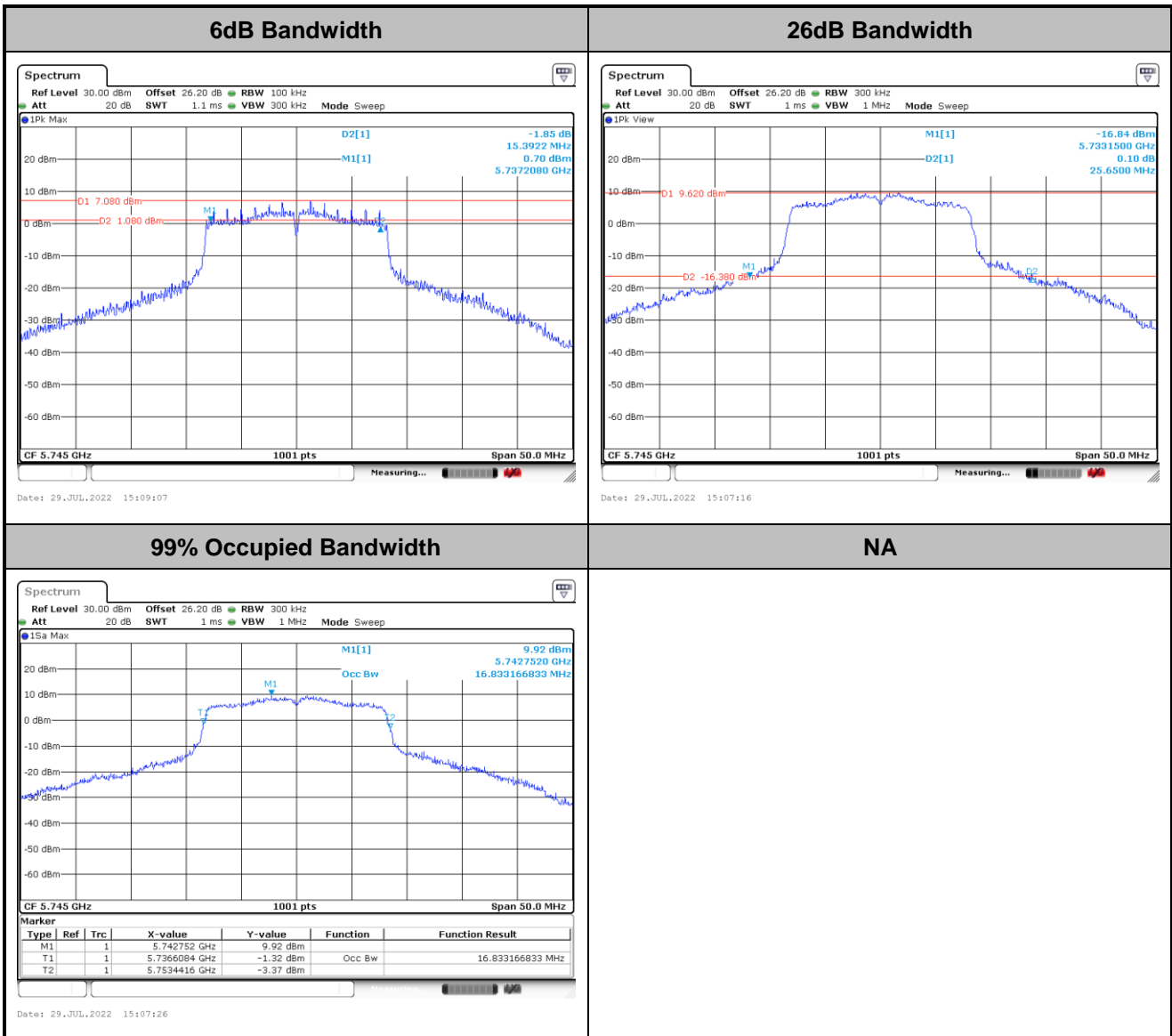
##### 3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.



MIMO <Ant. 5+4>

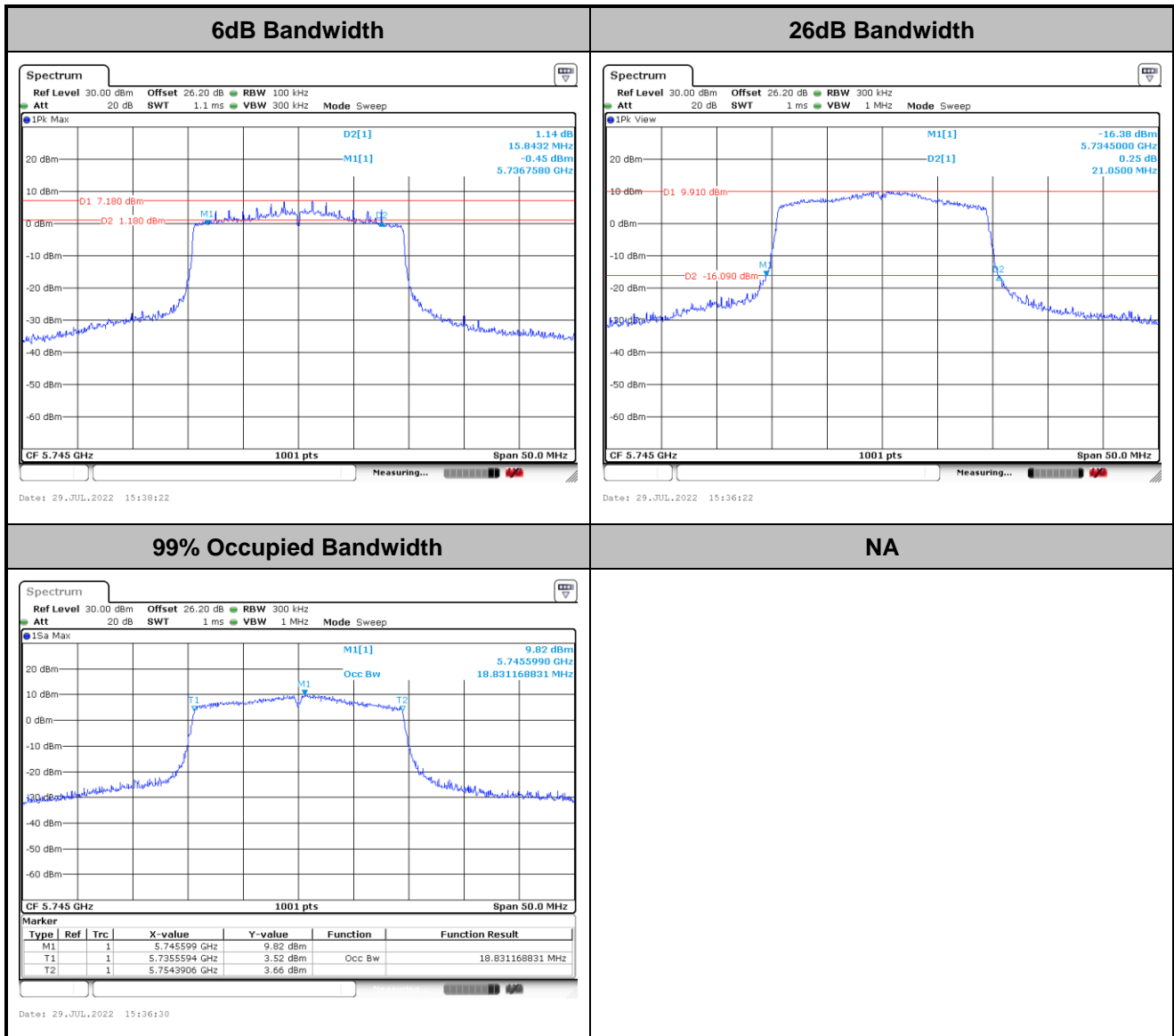
<802.11a>



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



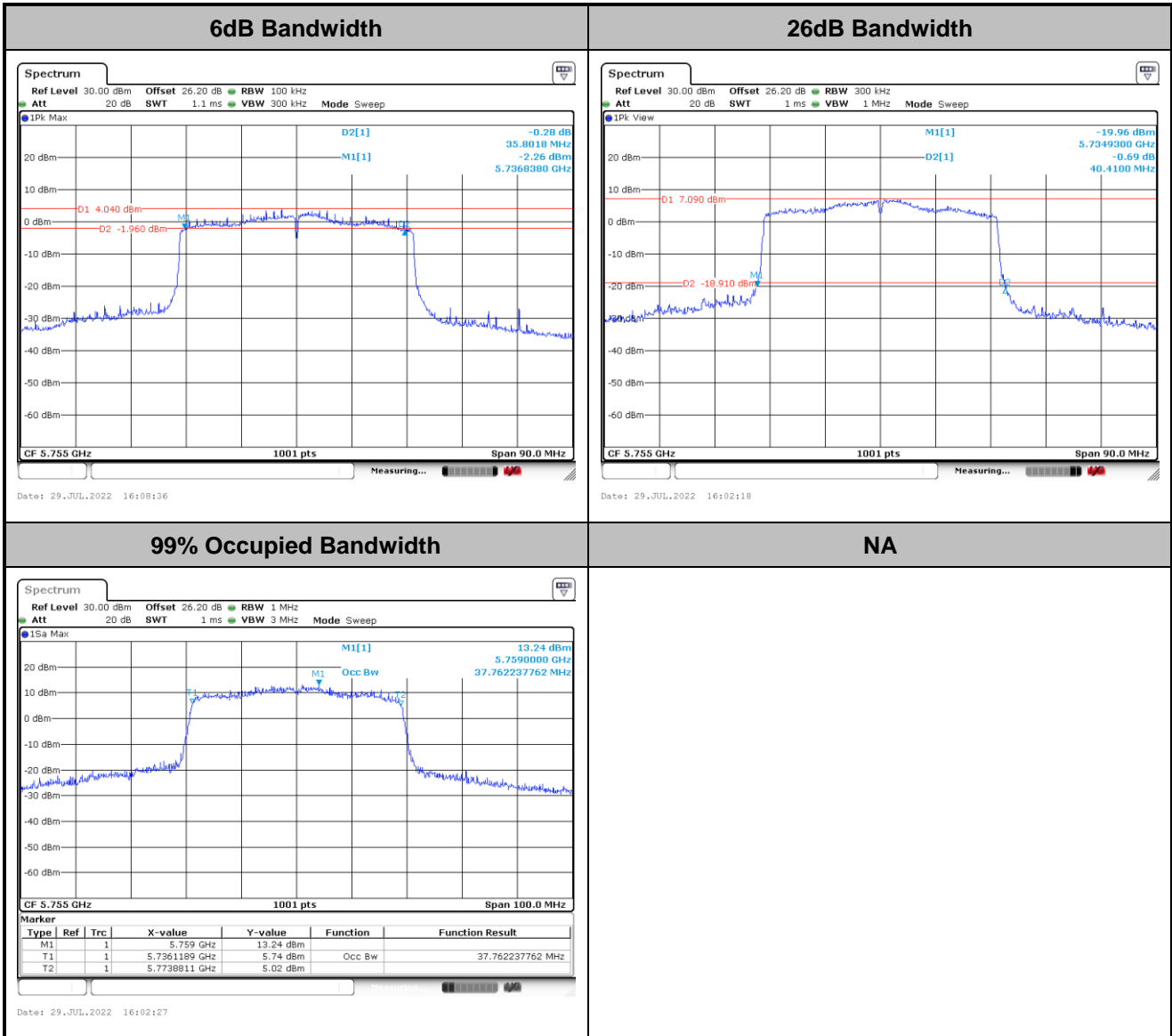
<802.11ax HE20>



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



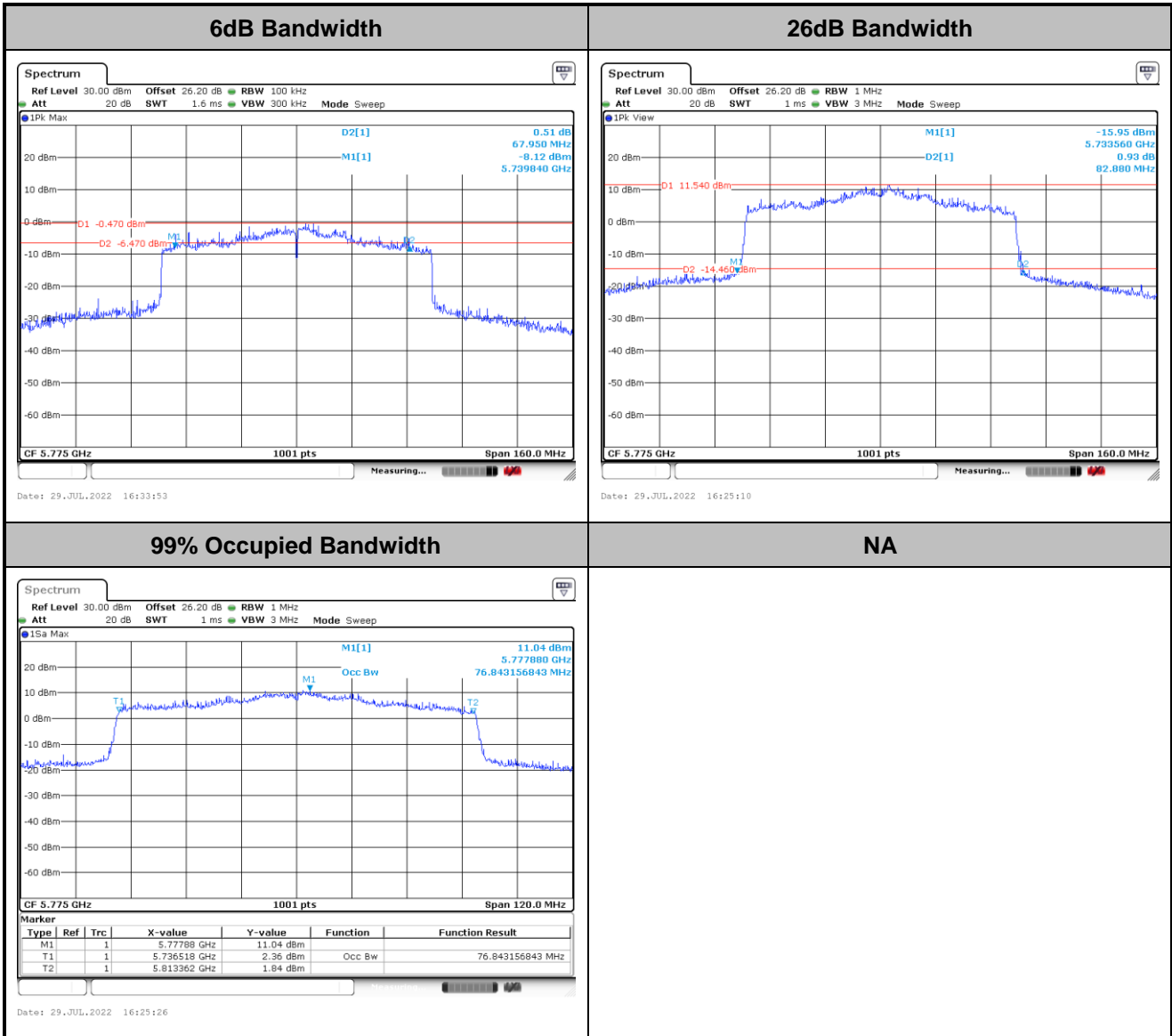
<802.11ax HE40>



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



<802.11ax HE80>



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

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

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

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

### 3.2.2 Measuring Instruments

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

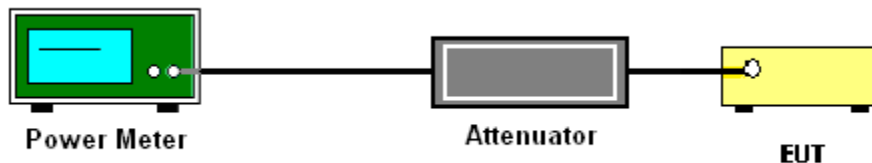
### 3.2.3 Test Procedures

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

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

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

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.





### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

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

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

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

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

##### # Method SA-2 #

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

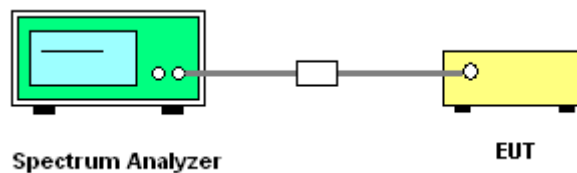
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300kHz.
- Set VBW  $\geq$  1 MHz.
- Add  $10 \log(500 \text{ kHz}/\text{RBW})$  to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer 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

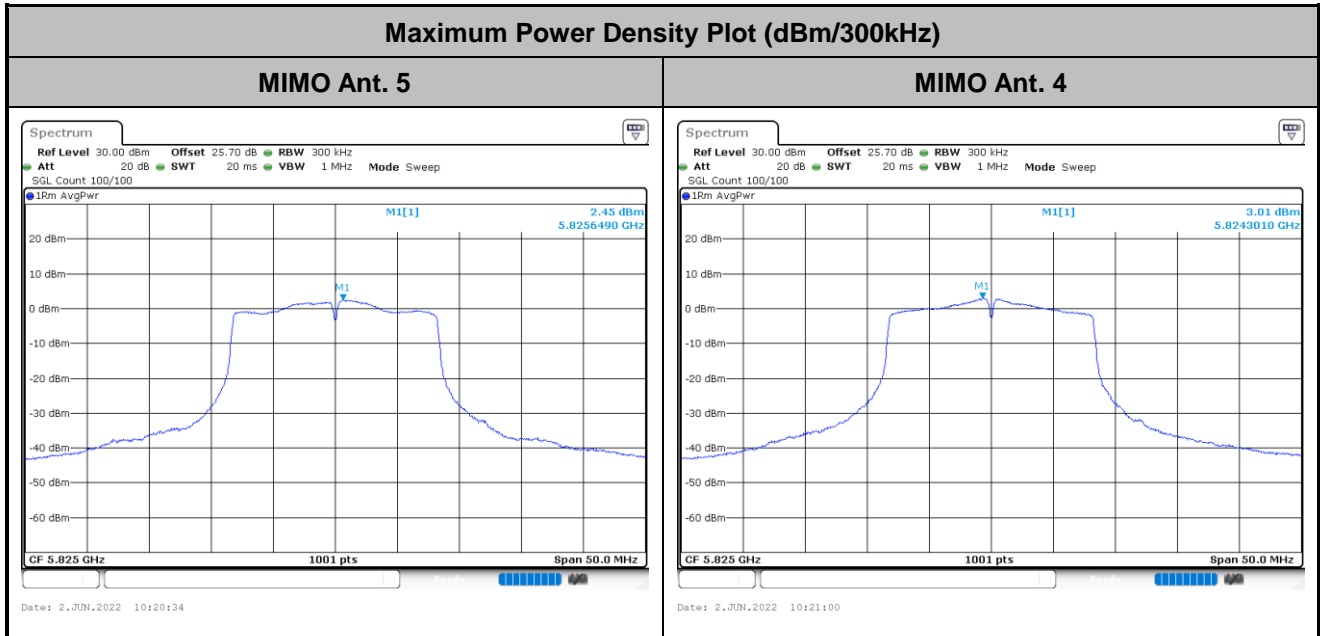




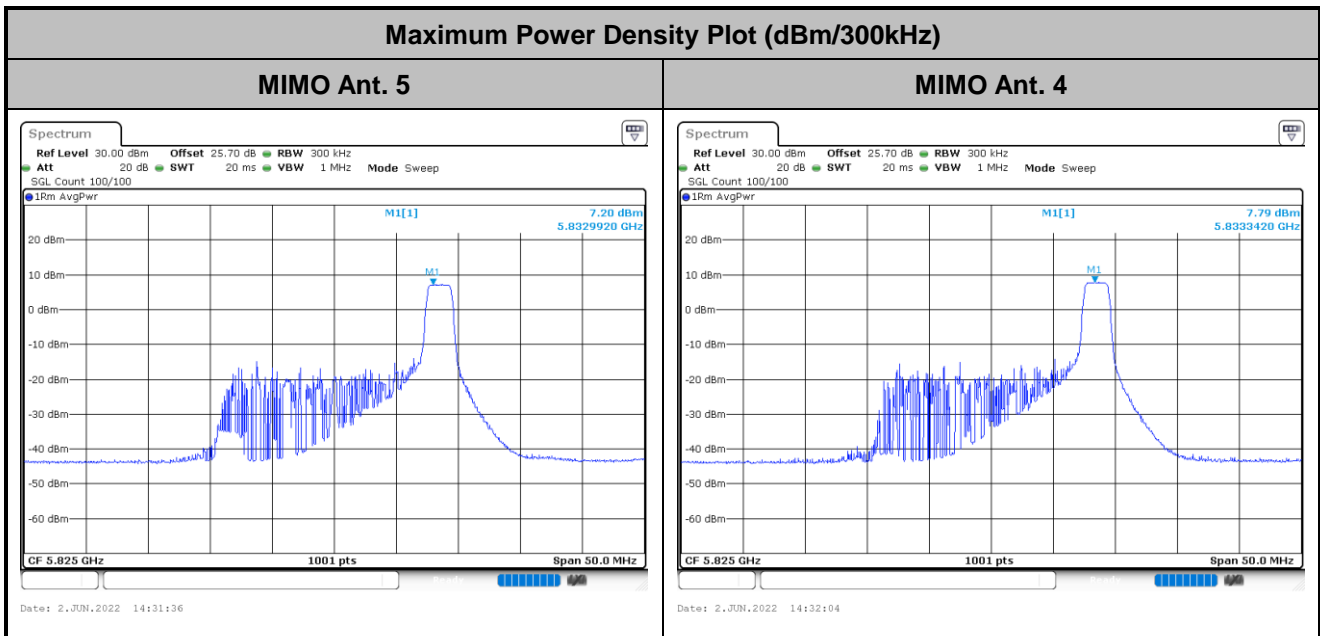
### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<802.11a>

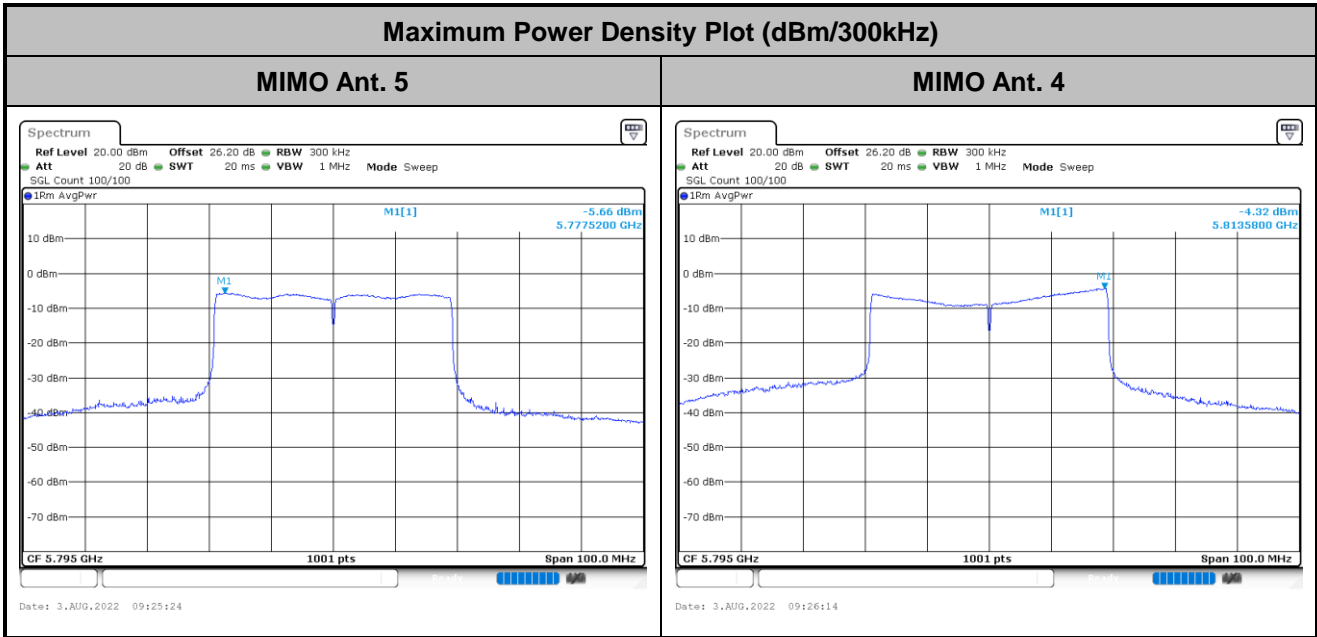


<802.11ax HE20>

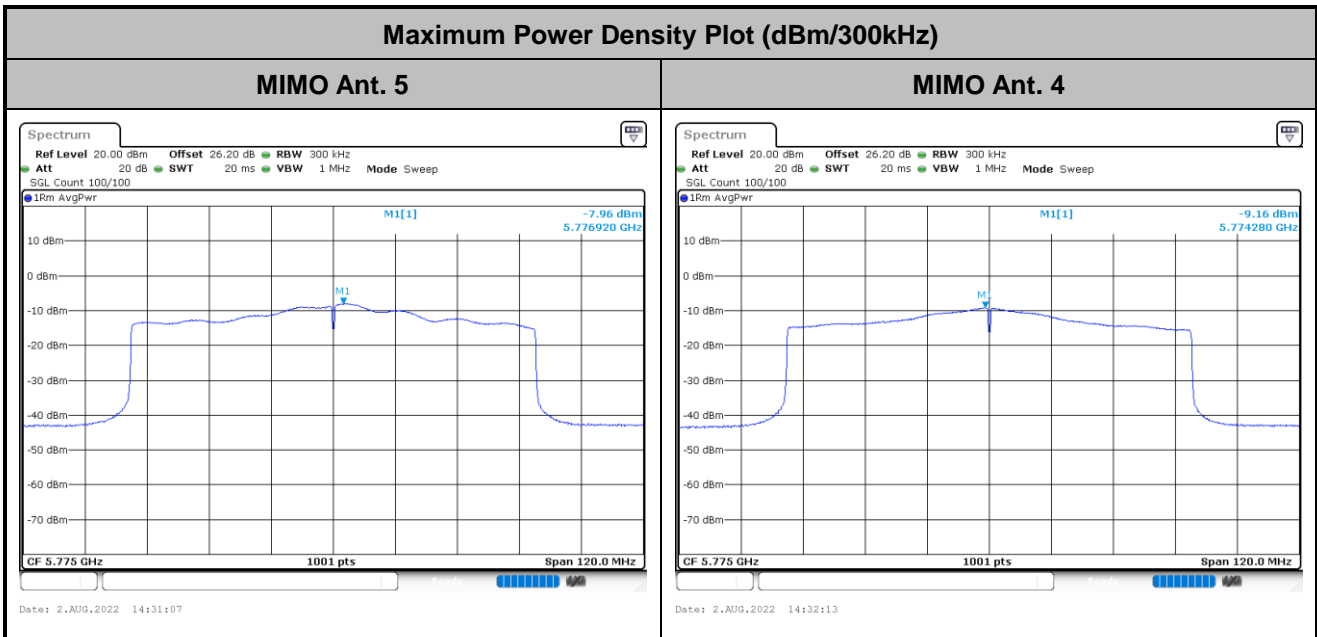




<802.11ax HE40>



<802.11ax HE80>



Note: Average Power Density (dB) = Measured value+ Duty Factor



### 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 the ANSI C63.10 Section 11.12.2 Antenna-port conducted measurements.
2. Measure the conducted output power (in dBm) using the peak detector.
3. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP.
4. Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies  $\leq$  30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies  $>$  1000 MHz).
5. Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log d + 104.8,$$

where

E is the electric field strength in dB $\mu$ V/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in 3m

6. Compare the resultant electric field strength level with the applicable regulatory limit.
7. Corrected Reading for conducted spurious emission: Antenna Gain + Path Loss + MIMO Factor + Read Level = Level
8. Perform the cabinet radiated spurious emission test and verify radiated spurious emission with Antenna A and C
9. 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



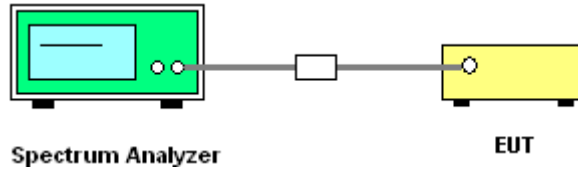
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.
10. 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.
  11. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
  12. 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.
  13. 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.
  14. 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 “-“.
  15. 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.

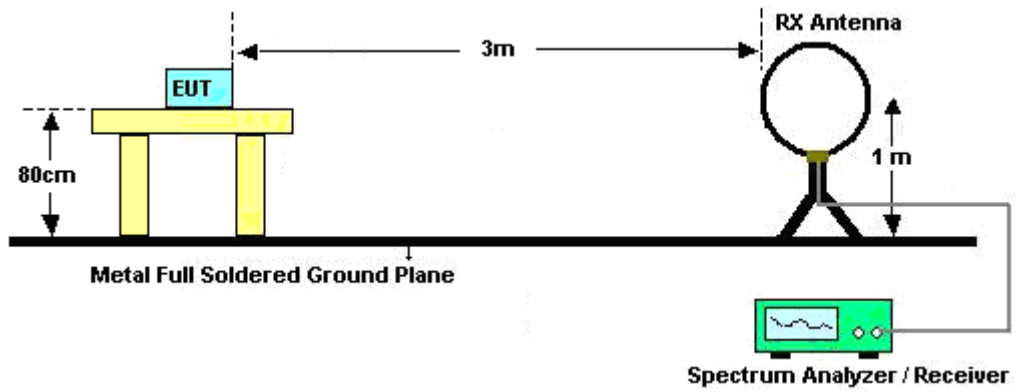
When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.

### 3.4.4 Test Setup

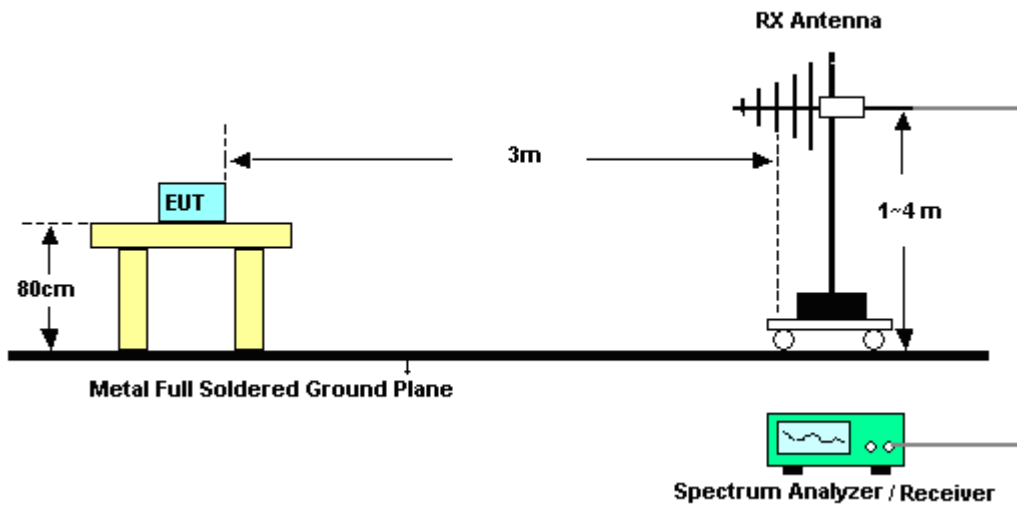
For Conducted Measurement Setup:



For radiated emissions below 30MHz

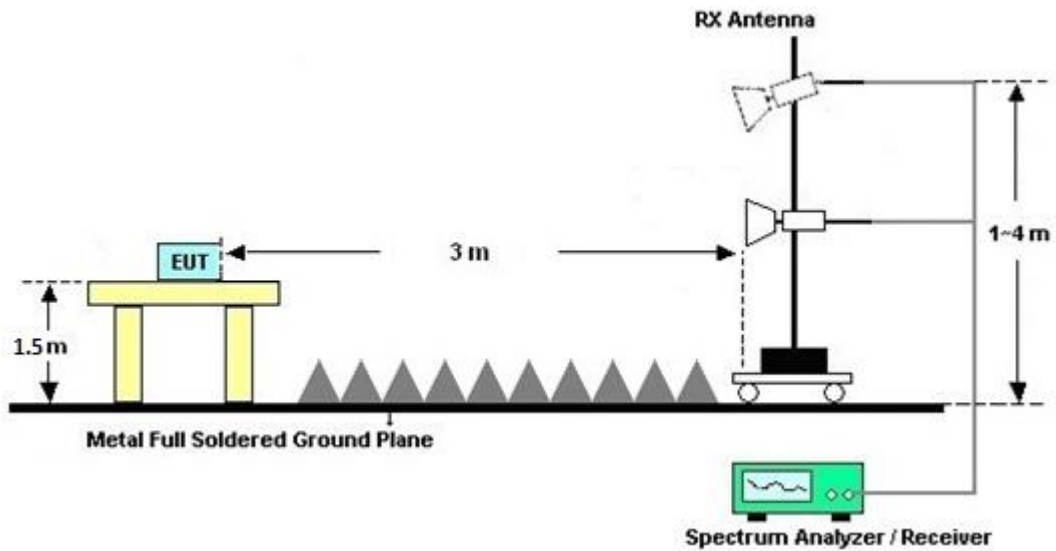


For radiated emissions from 30MHz to 1GHz

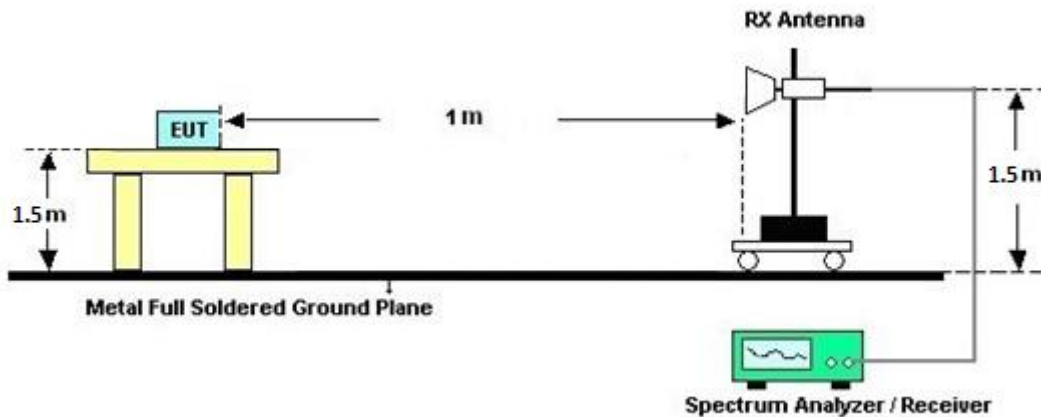




For radiated test from 1GHz to 18GHz



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 Conduced Spurious at Band Edges in the Restricted Band**

Please refer to Appendix B and C.

**3.4.7 Test Result of Conduced Spurious Emission in the Restricted Band**

Please refer to Appendix B and C.

**3.4.8 Test Result of Cabinet Radiated Spurious at Band Edges**

Please refer to Appendix D and E.

**3.4.9 Test Result of Cabinet Radiated Spurious Emissions (30MHz ~ 10th Harmonic)**

Please refer to Appendix D and E.

**3.4.10 Test Result of Radiated Spurious Emissions in the Restricted Band**

Please refer to Appendix F and G.

**3.4.11 Duty Cycle**

Please refer to Appendix H.

### 3.5 Antenna Requirements

#### 3.5.1 Standard Applicable

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

#### 3.5.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.5.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

The directional gain calculated as

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

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 EUT supports beamforming for 802.11ac and 11ax modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

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



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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 5	Ant 4	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
<b>Band IV</b>	4.72	4.72	7.73	7.73	1.73	1.73

$$\text{Power limit reduction} = \text{Composite gain} - 6\text{dBi}, (\text{min} = 0)$$

$$\text{PSD limit reduction} = \text{Composite gain} + \text{PSD Array gain} - 6\text{dBi}, (\text{min} = 0)$$

Calculation example:

The DG for PSD is derived from formula is

$$10 \times \log \left\{ \left[ 10^{(4.72 \text{ dBi} / 20)} + 10^{(4.72 \text{ dBi} / 20)} \right]^2 / 2 \right\} \\ = 7.73 \text{ dBi}$$



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 09, 2021	Apr. 20, 2022~ Apr. 29, 2022	Sep. 08, 2022	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	41912 & 05	30MHz~1GHz	Feb. 06, 2022	Apr. 20, 2022~ Apr. 29, 2022	Feb. 05, 2023	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2021	Apr. 20, 2022~ Apr. 29, 2022	Dec. 26, 2022	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 04, 2021	Apr. 20, 2022~ Apr. 29, 2022	Aug. 03, 2022	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 30, 2021	Apr. 20, 2022~ Apr. 29, 2022	Nov. 29, 2022	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3	17100018000 55006	1GHz~18GHz	May 06, 2021	Apr. 20, 2022~ Apr. 29, 2022	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz-18GHz	Dec. 16, 2021	Apr. 20, 2022~ Apr. 29, 2022	Dec. 15, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060801	18-40GHz	Jun. 22, 2021	Apr. 20, 2022~ Apr. 29, 2022	Jun. 21, 2022	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 21, 2021	Apr. 20, 2022~ Apr. 29, 2022	Oct. 20, 2022	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	May 07, 2021	Apr. 20, 2022~ Apr. 29, 2022	May 06, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 20, 2022~ Apr. 29, 2022	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 20, 2022~ Apr. 29, 2022	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (k5)	RK-000451	N/A	N/A	Apr. 20, 2022~ Apr. 29, 2022	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE, 508405/2E	30MHz~18G	Nov. 15, 2021	Apr. 20, 2022~ Apr. 29, 2022	Nov. 14, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	30MHz-40GHz	Jan. 04, 2022	Apr. 20, 2022~ Apr. 29, 2022	Jan. 03, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Apr. 20, 2022~ Apr. 29, 2022	Mar. 09, 2023	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-15 30-6000-40ST	SN4	1.53GHz Low Pass Filter	Jul. 02, 2021	Apr. 20, 2022~ Apr. 29, 2022	Jul. 01, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN6	6.75GHz High Pass Filter	Jun. 30, 2021	Apr. 20, 2022~ Apr. 29, 2022	Jun. 29, 2022	Radiation (03CH15-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Jun. 02, 2022~ Aug. 04, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 16, 2021	Jun. 02, 2022~ Aug. 04, 2022	Dec. 15, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Jun. 02, 2022~ Aug. 04, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Control Mainframe	E-IUSTRUME NT	ETF-1405-0	EC1900067 (BOX7)	N/A	Aug. 12, 2021	Jun. 02, 2022~ Aug. 04, 2022	Aug. 11, 2022	Conducted (TH05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	ROHDE & SCHWARZ	FSV40	101565	10Hz~40GHz	Dec. 29, 2021	Jun. 03, 2022~ Aug. 11, 2022	Dec. 28, 2022	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Jun. 03, 2022~ Aug. 11, 2022	Mar. 09, 2023	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Jun. 03, 2022~ Aug. 11, 2022	Dec. 09, 2022	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Jun. 03, 2022~ Aug. 11, 2022	Feb. 20, 2023	CSE (TH05-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 15, 2022	Jun. 03, 2022~ Aug. 11, 2022	Mar. 14, 2023	CSE (TH05-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN17	6.75GHz High Pass Filter	May 23, 2022	Jun. 03, 2022~ Aug. 11, 2022	May 22, 2023	CSE (TH05-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.8 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.3 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

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

Test Engineer:	Richard Qiu/EasonHuang	Temperature:	21~25	°C
Test Date:	2022/6/2~08/04	Relative Humidity:	51~54	%



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

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4		
11a	6Mbps	2	149	5745	16.83	17.53	25.65	30.45	15.39	15.19	0.5	Pass
11a	6Mbps	2	157	5785	16.88	17.18	25.65	27.05	15.19	15.19	0.5	Pass
11a	6Mbps	2	165	5825	16.63	16.88	25.45	25.70	15.39	15.19	0.5	Pass

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

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4	
11a	6Mbps	2	149	5745	14.20	14.20	17.21	28.27	28.27	7.73	7.73	Pass
11a	6Mbps	2	157	5785	17.30	17.30	20.31	28.27	28.27	7.73	7.73	Pass
11a	6Mbps	2	165	5825	17.30	17.40	20.36	28.27	28.27	7.73	7.73	Pass
HT20	MCS0	2	149	5745	15.40	14.40	17.94	28.27	28.27	7.73	7.73	Pass
HT20	MCS0	2	157	5785	16.90	17.10	20.01	28.27	28.27	7.73	7.73	Pass
HT20	MCS0	2	165	5825	15.80	16.20	19.01	28.27	28.27	7.73	7.73	Pass
HT40	MCS0	2	151	5755	13.10	12.60	15.87	28.27	28.27	7.73	7.73	Pass
HT40	MCS0	2	159	5795	13.90	12.80	16.40	28.27	28.27	7.73	7.73	Pass
VHT20	MCS0	2	149	5745	15.50	14.50	18.04	28.27	28.27	7.73	7.73	Pass
VHT20	MCS0	2	157	5785	17.00	17.20	20.11	28.27	28.27	7.73	7.73	Pass
VHT20	MCS0	2	165	5825	15.90	16.30	19.11	28.27	28.27	7.73	7.73	Pass
VHT40	MCS0	2	151	5755	13.20	12.70	15.97	28.27	28.27	7.73	7.73	Pass
VHT40	MCS0	2	159	5795	14.00	12.90	16.50	28.27	28.27	7.73	7.73	Pass
VHT80	MCS0	2	155	5775	12.40	11.30	14.90	28.27	28.27	7.73	7.73	Pass

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

Band IV MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4	
11a	6Mbps	2	149	5745	2.22	2.04	2.24	5.25	28.27	28.27	7.73	7.73	Pass	
11a	6Mbps	2	157	5785	2.22	4.72	5.07	8.08	28.27	28.27	7.73	7.73	Pass	
11a	6Mbps	2	165	5825	2.22	4.67	5.23	8.24	28.27	28.27	7.73	7.73	Pass	

Note: PSD Sum = Max PSD(Ant. 5, Ant. 4) + 10 log (n)

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

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4		
HE20	MCS0	2	149	5745	Full	18.83	18.98	21.05	22.90	15.84	16.64	0.5	Pass
HE20	MCS0	2	149	5745	26/0	18.98	18.68	21.35	20.70	2.14	14.59	0.5	Pass
HE20	MCS0	2	149	5745	52/37	18.68	18.53	21.75	21.00	17.19	17.74	0.5	Pass
HE20	MCS0	2	149	5745	106/53	21.87	18.78	26.95	28.30	17.24	18.19	0.5	Pass
HE20	MCS0	2	149	5745	242/61	19.28	19.68	34.30	31.80	19.14	19.04	0.5	Pass
HE20	MCS0	2	157	5785	Full	18.83	18.93	21.45	21.45	15.74	15.19	0.5	Pass
HE20	MCS0	2	157	5785	26/4	17.53	17.13	19.20	18.60	3.90	2.75	0.5	Pass
HE20	MCS0	2	157	5785	52/38	17.38	17.18	19.50	18.75	15.14	15.19	0.5	Pass
HE20	MCS0	2	157	5785	106/53	18.73	18.73	24.75	28.05	17.24	17.79	0.5	Pass
HE20	MCS0	2	157	5785	242/61	24.88	20.62	48.79	46.02	19.19	19.19	0.5	Pass
HE20	MCS0	2	165	5825	Full	18.83	18.93	20.95	21.55	16.29	16.29	0.5	Pass
HE20	MCS0	2	165	5825	26/8	18.63	18.48	20.50	20.40	2.16	2.21	0.5	Pass
HE20	MCS0	2	165	5825	52/40	18.38	18.23	21.00	20.75	17.09	15.84	0.5	Pass
HE20	MCS0	2	165	5825	106/54	18.48	18.43	23.30	21.35	17.24	17.24	0.5	Pass
HE20	MCS0	2	165	5825	242/61	22.67	26.12	45.39	49.58	19.14	19.14	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.76	37.96	40.41	46.44	35.80	34.00	0.5	Pass
HE40	MCS0	2	151	5755	484/65	38.56	38.36	43.20	42.03	38.23	38.05	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.66	37.86	40.14	40.14	35.44	36.25	0.5	Pass
HE40	MCS0	2	159	5795	484/65	40.95	40.26	68.58	71.10	38.23	38.23	0.5	Pass
HE80	MCS0	2	155	5775	Full	76.84	76.96	82.88	82.24	67.95	58.52	0.5	Pass
HE80	MCS0	2	155	5775	996/67	77.92	78.04	113.92	125.28	78.36	78.36	0.5	Pass

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

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4	
HE20	MCS0	2	149	5745	Full	15.60	14.60	18.14	28.27		7.73		Pass
HE20	MCS0	2	149	5745	26/0	15.50	15.10	18.31	28.27		7.73		Pass
HE20	MCS0	2	149	5745	52/37	15.50	15.20	18.36	28.27		7.73		Pass
HE20	MCS0	2	149	5745	106/53	14.50	13.40	17.00	28.27		7.73		Pass
HE20	MCS0	2	149	5745	242/61	14.50	13.90	17.22	28.27		7.73		Pass
HE20	MCS0	2	157	5785	Full	17.10	17.30	20.21	28.27		7.73		Pass
HE20	MCS0	2	157	5785	26/4	15.10	15.50	18.31	28.27		7.73		Pass
HE20	MCS0	2	157	5785	52/38	15.40	15.50	18.46	28.27		7.73		Pass
HE20	MCS0	2	157	5785	106/53	15.40	15.40	18.41	28.27		7.73		Pass
HE20	MCS0	2	157	5785	242/61	17.50	17.40	20.46	28.27		7.73		Pass
HE20	MCS0	2	165	5825	Full	16.00	16.40	19.21	28.27		7.73		Pass
HE20	MCS0	2	165	5825	26/8	15.00	15.50	18.27	28.27		7.73		Pass
HE20	MCS0	2	165	5825	52/40	15.30	15.40	18.36	28.27		7.73		Pass
HE20	MCS0	2	165	5825	106/54	15.50	15.40	18.46	28.27		7.73		Pass
HE20	MCS0	2	165	5825	242/61	17.10	17.20	20.16	28.27		7.73		Pass
HE40	MCS0	2	151	5755	Full	13.30	12.80	16.07	28.27		7.73		Pass
HE40	MCS0	2	151	5755	484/65	12.30	11.80	15.07	28.27		7.73		Pass
HE40	MCS0	2	159	5795	Full	14.10	13.00	16.60	28.27		7.73		Pass
HE40	MCS0	2	159	5795	484/65	13.80	13.40	16.61	28.27		7.73		Pass
HE80	MCS0	2	155	5775	Full	12.50	11.40	15.00	28.27		7.73		Pass
HE80	MCS0	2	155	5775	996/67	11.60	10.60	14.14	28.27		7.73		Pass

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

Band IV MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4	
HE20	MCS0	2	149	5745	Full	2.22	1.14	1.57	4.58		28.27		7.73	Pass	
HE20	MCS0	2	149	5745	26/0	2.22	9.94	9.42	12.95		28.27		7.73	Pass	
HE20	MCS0	2	149	5745	52/37	2.22	7.00	6.30	10.01		28.27		7.73	Pass	
HE20	MCS0	2	149	5745	106/53	2.22	2.97	1.76	5.98		28.27		7.73	Pass	
HE20	MCS0	2	149	5745	242/61	2.22	-0.64	-0.66	2.37		28.27		7.73	Pass	
HE20	MCS0	2	157	5785	Full	2.22	3.82	4.39	7.40		28.27		7.73	Pass	
HE20	MCS0	2	157	5785	26/4	2.22	9.56	9.89	12.90		28.27		7.73	Pass	
HE20	MCS0	2	157	5785	52/38	2.22	7.16	6.91	10.17		28.27		7.73	Pass	
HE20	MCS0	2	157	5785	106/53	2.22	4.02	3.87	7.03		28.27		7.73	Pass	
HE20	MCS0	2	157	5785	242/61	2.22	2.79	2.64	5.80		28.27		7.73	Pass	
HE20	MCS0	2	165	5825	Full	2.22	2.32	3.37	6.38		28.27		7.73	Pass	
HE20	MCS0	2	165	5825	26/8	2.22	9.42	10.01	13.02		28.27		7.73	Pass	
HE20	MCS0	2	165	5825	52/40	2.22	6.71	6.96	9.97		28.27		7.73	Pass	
HE20	MCS0	2	165	5825	106/54	2.22	4.15	3.96	7.16		28.27		7.73	Pass	
HE20	MCS0	2	165	5825	242/61	2.22	2.30	2.14	5.31		28.27		7.73	Pass	
HE40	MCS0	2	151	5755	Full	2.22	-2.84	-2.81	0.20		28.27		7.73	Pass	
HE40	MCS0	2	151	5755	484/65	2.22	-5.20	-5.43	-2.19		28.27		7.73	Pass	
HE40	MCS0	2	159	5795	Full	2.22	-2.20	-3.23	0.81		28.27		7.73	Pass	
HE40	MCS0	2	159	5795	484/65	2.22	-3.44	-2.10	0.91		28.27		7.73	Pass	
HE80	MCS0	2	155	5775	Full	2.22	-5.74	-6.94	-2.73		28.27		7.73	Pass	
HE80	MCS0	2	155	5775	996/67	2.22	-8.60	-9.88	-5.59		28.27		7.73	Pass	

Note: PSD Sum = Max PSD(Ant. 5, Ant. 4) + 10 log (n)



## Appendix B. Conducted Spurious Emission

Test Engineer :	Richard Qiu, Jacob Yu, Eric Chang, Ken Wu	Temperature :	22.7~24.8°C
	and Nick Yu	Relative Humidity :	52~59%

UNII 3 - 5725~5850MHz

WIFI 802.11a (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11a CH 149 5745MHz		5638.6	-35.03	-8.03	-27	-47.18	7.73	1.41	3.01	0	P
		5651.8	-36.96	-11.3	-25.66	-49.1	7.73	1.4	3.01	0	P
		5719.6	-5.05	-20.54	15.49	-17.16	7.73	1.37	3.01	0	P
		5724.2	-3.84	-29.02	25.18	-15.94	7.73	1.36	3.01	0	P
	*	5745	23.3	-	-	11.23	7.73	1.33	3.01	0	P
	*	5745	11.34	-	-	-0.73	7.73	1.33	3.01	0	A
802.11a CH 157 5785MHz		5649.8	-30.51	-3.51	-27	-42.65	7.73	1.4	3.01	0	P
		5651.2	-29.51	-3.4	-26.11	-41.65	7.73	1.4	3.01	0	P
		5701.8	-20.66	-31.17	10.51	-32.79	7.73	1.39	3.01	0	P
		5722.8	-17.38	-39.37	21.99	-29.48	7.73	1.36	3.01	0	P
	*	5785	24.54	-	-	12.51	7.73	1.29	3.01	0	P
	*	5785	13.08	-	-	1.05	7.73	1.29	3.01	0	A
		5852.42	-18.68	-40.16	21.48	-30.78	7.73	1.36	3.01	0	P
		5863.08	-18.41	-31.75	13.34	-30.52	7.73	1.37	3.01	0	P
		5922.53	-32.01	-6.83	-25.18	-44.2	7.73	1.45	3.01	0	P
		5924.99	-30.49	-3.5	-26.99	-42.68	7.73	1.45	3.01	0	P
802.11a CH 165 5825MHz		5649.8	-30.51	-3.51	-27	-42.65	7.73	1.4	3.01	0	P
	*	5825	25.44	-	-	13.39	7.73	1.31	3.01	0	P
	*	5825	13.23	-	-	1.18	7.73	1.31	3.01	0	A
		5855	-8.91	-24.51	15.6	-21.01	7.73	1.36	3.01	0	P
		5860.2	-6.98	-21.12	14.14	-19.09	7.73	1.37	3.01	0	P
		5924.2	-33.1	-6.69	-26.41	-45.29	7.73	1.45	3.01	0	P
	5927.6	-31.15	-4.15	-27	-43.34	7.73	1.45	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 5725~5850MHz
WIFI 802.11a (Harmonic)

Table with 12 columns: WIFI Ant. 4, Note, Frequency (MHz), Level (dBm), Over Limit (dB), Limit Line (dBm), Read Level (dBm), Antenna Gain (dBi), Path Loss (dB), MIMO Factor (dB), Grounding Factor (dB), Peak Avg. (P/A). Rows include channels 149, 157, and 165 with their respective frequency and level data.





UNII 3 - 5725~5850MHz

WIFI 802.11ax HE20 Full (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE20 Full CH 149 5745MHz		5644.2	-35.94	-8.94	-27	-48.09	7.73	1.41	3.01	0	P
		5650.6	-36.99	-10.44	-26.55	-49.13	7.73	1.4	3.01	0	P
		5719.4	-9.77	-25.2	15.43	-21.88	7.73	1.37	3.01	0	P
		5720.8	-5.04	-22.46	17.42	-17.15	7.73	1.37	3.01	0	P
	*	5745	23.44	-	-	11.37	7.73	1.33	3.01	0	P
	*	5745	10.98	-	-	-1.09	7.73	1.33	3.01	0	A
802.11ax HE20 Full CH 157 5785MHz		5649	-28.56	-1.56	-27	-40.7	7.73	1.4	3.01	0	P
		5653.2	-28.34	-3.72	-24.62	-40.48	7.73	1.4	3.01	0	P
		5701.6	-20.02	-30.47	10.45	-32.15	7.73	1.39	3.01	0	P
		5720.6	-16.04	-33.01	16.97	-28.15	7.73	1.37	3.01	0	P
	*	5785	24.95	-	-	12.92	7.73	1.29	3.01	0	P
	*	5785	12.81	-	-	0.78	7.73	1.29	3.01	0	A
		5852.215	-15.02	-36.97	21.95	-27.11	7.73	1.35	3.01	0	P
		5872.51	-19.2	-29.9	10.7	-31.33	7.73	1.39	3.01	0	P
		5924.17	-29.65	-3.26	-26.39	-41.84	7.73	1.45	3.01	0	P
802.11ax HE20 Full CH 165 5825MHz		5925.4	-28.73	-1.73	-27	-40.92	7.73	1.45	3.01	0	P
	*	5825	25.42	-	-	13.37	7.73	1.31	3.01	0	P
	*	5825	12.46	-	-	0.41	7.73	1.31	3.01	0	A
		5850.4	-4.84	-30.93	26.09	-16.93	7.73	1.35	3.01	0	P
		5872.6	-16.56	-27.23	10.67	-28.69	7.73	1.39	3.01	0	P
		5922.2	-32.17	-7.23	-24.94	-44.36	7.73	1.45	3.01	0	P
	5940.4	-34.27	-7.27	-27	-46.47	7.73	1.46	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic)

WIFI Ant. 4	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Ground ing Factor ( dB )	Peak Avg. (P/A)
802.11ax HE20 Full CH 149 5745MHz		7660	-42.63	-21.43	-21.2	-55.99	7.73	2.62	3.01	0	P
		7660	-43.64	-2.44	-41.2	-57	7.73	2.62	3.01	0	A
		11490	-63.91	-42.71	-21.2	-77.52	7.73	2.87	3.01	0	P
		17235	-59.82	-32.82	-27	-74.42	7.73	3.86	3.01	0	P
802.11ax HE20 Full CH 157 5785MHz		7713.3	-43.34	-22.14	-21.2	-56.7	7.73	2.62	3.01	0	P
		7713.3	-44.54	-3.34	-41.2	-57.9	7.73	2.62	3.01	0	A
		11570	-64.98	-43.78	-21.2	-78.6	7.73	2.88	3.01	0	P
		17355	-59.6	-32.6	-27	-74.24	7.73	3.9	3.01	0	P
802.11ax HE20 Full CH 165 5825MHz		7766.6	-44.21	-17.21	-27	-57.58	7.73	2.63	3.01	0	P
		11650	-63.75	-42.55	-21.2	-77.39	7.73	2.9	3.01	0	P
		17475	-58.18	-31.18	-27	-72.85	7.73	3.93	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE20 Partial 26/0 CH 149 5745MHz		5643.2	-35.88	-8.88	-27	-48.03	7.73	1.41	3.01	0	P
		5650.2	-36.8	-9.95	-26.85	-48.94	7.73	1.4	3.01	0	P
		5702.6	-25.69	-36.42	10.73	-37.82	7.73	1.39	3.01	0	P
		5721.6	-14.6	-33.85	19.25	-26.71	7.73	1.37	3.01	0	P
	*	5745	30.94	-	-	18.87	7.73	1.33	3.01	0	P
	*	5745	19.83	-	-	7.76	7.73	1.33	3.01	0	A
802.11ax HE20 Partial 26/4 CH 157 5785MHz		5648.6	-36.63	-9.63	-27	-48.77	7.73	1.4	3.01	0	P
		5650.4	-39	-12.3	-26.7	-51.14	7.73	1.4	3.01	0	P
		5704.4	-30.94	-42.17	11.23	-43.06	7.73	1.38	3.01	0	P
		5720	-22.57	-38.17	15.6	-34.68	7.73	1.37	3.01	0	P
	*	5785	30.16	-	-	18.13	7.73	1.29	3.01	0	P
	*	5785	19.32	-	-	7.29	7.73	1.29	3.01	0	A
		5853.445	-24.43	-43.58	19.15	-36.53	7.73	1.36	3.01	0	P
		5873.74	-30.73	-41.08	10.35	-42.86	7.73	1.39	3.01	0	P
802.11ax HE20 Partial 26/8 CH 165 5825MHz		5924.375	-37.95	-11.41	-26.54	-50.14	7.73	1.45	3.01	0	P
		5926.63	-36.03	-9.03	-27	-48.22	7.73	1.45	3.01	0	P
	*	5825	31.5	-	-	19.45	7.73	1.31	3.01	0	P
	*	5825	20.47	-	-	8.42	7.73	1.31	3.01	0	A
		5850	-9.7	-36.7	27	-21.79	7.73	1.35	3.01	0	P
		5874.2	-27.22	-37.44	10.22	-39.35	7.73	1.39	3.01	0	P
802.11ax HE20 Partial 26/8 CH 165 5825MHz		5924	-35.61	-9.35	-26.26	-47.8	7.73	1.45	3.01	0	P
		5933.8	-36.53	-9.53	-27	-48.73	7.73	1.46	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 5725~5850MHz

WIFI 802.11ax HE20 Partial 26 (Harmonic)

WIFI Ant. 4	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Grounding Factor ( dB )	Peak Avg. (P/A)
802.11ax HE20 Partial 26/0 CH 149 5745MHz		7660	-44.57	-23.37	-21.2	-57.93	7.73	2.62	3.01	0	P
		7660	-45.09	-3.89	-41.2	-58.45	7.73	2.62	3.01	0	A
		11490	-67.2	-46	-21.2	-80.81	7.73	2.87	3.01	0	P
		17235	-64.83	-37.83	-27	-79.43	7.73	3.86	3.01	0	P
802.11ax HE20 Partial 26/4 CH 157 5785MHz		7713.3	-44.56	-23.36	-21.2	-57.92	7.73	2.62	3.01	0	P
		7713.3	-45.02	-3.82	-41.2	-58.38	7.73	2.62	3.01	0	A
		11570	-65.29	-44.09	-21.2	-78.91	7.73	2.88	3.01	0	P
		17355	-57.84	-30.84	-27	-72.48	7.73	3.9	3.01	0	P
802.11ax HE20 Partial 26/8 CH 165 5825MHz		7766.6	-44.85	-17.85	-27	-58.22	7.73	2.63	3.01	0	P
		11650	-66.25	-45.05	-21.2	-79.89	7.73	2.9	3.01	0	P
		17475	-63.37	-36.37	-27	-78.04	7.73	3.93	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE20 Partial 52 (Band Edge)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE20 Partial 52/37 CH 149 5745MHz		5649.6	-32.74	-5.74	-27	-44.88	7.73	1.4	3.01	0	P
		5652.2	-30.53	-5.17	-25.36	-42.67	7.73	1.4	3.01	0	P
		5717.6	-13.28	-28.21	14.93	-25.39	7.73	1.37	3.01	0	P
		5724.6	-6.47	-32.56	26.09	-18.57	7.73	1.36	3.01	0	P
	*	5745	28.92	-	-	16.85	7.73	1.33	3.01	0	P
	*	5745	16.88	-	-	4.81	7.73	1.33	3.01	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



**UNII 3 - 5725~5850MHz**

**WIFI 802.11ax HE20 Partial 106 (Band Edge)**

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
<b>802.11ax HE20 Partial 106/53 CH 149 5745MHz</b>		5649.6	-34.02	-7.02	-27	-46.16	7.73	1.4	3.01	0	P
		5651.6	-37.66	-11.85	-25.81	-49.8	7.73	1.4	3.01	0	P
		5701.8	-20.85	-31.36	10.51	-32.98	7.73	1.39	3.01	0	P
		5724.4	-11.32	-36.95	25.63	-23.42	7.73	1.36	3.01	0	P
	*	5745	25.89	-	-	13.82	7.73	1.33	3.01	0	P
	*	5745	13.6	-	-	1.53	7.73	1.33	3.01	0	A
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



**UNII 3 - 5725~5850MHz**

**WIFI 802.11ax HE20 Partial 242 (Band Edge)**

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE20 Partial 242/61 CH 149 5745MHz		5644	-29.31	-2.31	-27	-41.46	7.73	1.41	3.01	0	P
		5700	-18.04	-28.04	10	-30.17	7.73	1.39	3.01	0	P
		5719.8	-14.45	-29.99	15.54	-26.56	7.73	1.37	3.01	0	P
		5724.2	-9.3	-34.48	25.18	-21.4	7.73	1.36	3.01	0	P
	*	5745	22.2	-	-	10.13	7.73	1.33	3.01	0	P
	*	5745	9.9	-	-	-2.17	7.73	1.33	3.01	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE40 Full (Band Edge)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE40 Full CH 151 5755MHz		5645.4	-32.06	-5.06	-27	-44.2	7.73	1.4	3.01	0	P
		5650.6	-34.23	-7.68	-26.55	-46.37	7.73	1.4	3.01	0	P
		5705.2	-19.73	-31.19	11.46	-31.85	7.73	1.38	3.01	0	P
		5725	-10.24	-37.24	27	-22.34	7.73	1.36	3.01	0	P
	*	5755	18.29	-	-	6.23	7.73	1.32	3.01	0	P
	*	5755	5.78	-	-	-6.28	7.73	1.32	3.01	0	A
		5853.65	-36.05	-54.73	18.68	-48.15	7.73	1.36	3.01	0	P
		5870.87	-29.68	-40.84	11.16	-41.8	7.73	1.38	3.01	0	P
		5924.17	-36.37	-9.98	-26.39	-48.56	7.73	1.45	3.01	0	P
	5943.235	-36.21	-9.21	-27	-48.41	7.73	1.46	3.01	0	P	
802.11ax HE40 Full CH 159 5795MHz		5646.6	-31.51	-4.51	-27	-43.65	7.73	1.4	3.01	0	P
		5651.2	-35.54	-9.43	-26.11	-47.68	7.73	1.4	3.01	0	P
		5707.6	-22.41	-34.54	12.13	-34.53	7.73	1.38	3.01	0	P
		5723.8	-27.72	-51.98	24.26	-39.82	7.73	1.36	3.01	0	P
	*	5795	18.86	-	-	6.84	7.73	1.28	3.01	0	P
	*	5795	6.02	-	-	-6	7.73	1.28	3.01	0	A
		5854.265	-27.23	-44.51	17.28	-39.33	7.73	1.36	3.01	0	P
		5872.305	-29.17	-39.92	10.75	-41.3	7.73	1.39	3.01	0	P
		5924.99	-36.09	-9.1	-26.99	-48.28	7.73	1.45	3.01	0	P
	5933.19	-32.06	-5.06	-27	-44.26	7.73	1.46	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										





**UNII 3 5725~5850MHz**

**WIFI 802.11ax HE40 Full (Harmonic)**

WIFI Ant. 4	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Ground ing Factor ( dB )	Peak Avg. ( P/A )
802.11ax HE40 Full CH 151 5755MHz		11510	-63.41	-42.21	-21.2	-77.03	7.73	2.88	3.01	0	P
		17265	-60.77	-33.77	-27	-75.38	7.73	3.87	3.01	0	P
802.11ax HE40 Full CH 159 5795MHz		7726.6	-44.54	-23.34	-21.2	-57.91	7.73	2.63	3.01	0	P
		7726.6	-44.95	-3.75	-41.2	-58.32	7.73	2.63	3.01	0	A
		11590	-66.84	-45.64	-21.2	-80.47	7.73	2.89	3.01	0	P
		17385	-62.61	-35.61	-27	-77.25	7.73	3.9	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE40 Partial 484 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE40 Partial 484/65 CH 151 5755MHz		5618.4	-36.17	-9.17	-27	-48.32	7.73	1.41	3.01	0	P
		5651.6	-38	-12.19	-25.81	-50.14	7.73	1.4	3.01	0	P
		5704.2	-23.16	-34.34	11.18	-35.28	7.73	1.38	3.01	0	P
		5723.8	-11.64	-35.9	24.26	-23.74	7.73	1.36	3.01	0	P
	*	5755	18.49	-	-	6.43	7.73	1.32	3.01	0	P
	*	5755	5.09	-	-	-6.97	7.73	1.32	3.01	0	A
		5850.78	-33.19	-58.41	25.22	-45.28	7.73	1.35	3.01	0	P
		5863.9	-36.42	-49.53	13.11	-48.53	7.73	1.37	3.01	0	P
		5923.35	-38.24	-12.46	-25.78	-50.43	7.73	1.45	3.01	0	P
	5930.525	-37.49	-10.49	-27	-49.69	7.73	1.46	3.01	0	P	
802.11ax HE40 Partial 484/65 CH 159 5795MHz		5643.2	-32.68	-5.68	-27	-44.83	7.73	1.41	3.01	0	P
		5651	-31.5	-5.24	-26.26	-43.64	7.73	1.4	3.01	0	P
		5701	-25.17	-35.45	10.28	-37.3	7.73	1.39	3.01	0	P
		5724	-21.44	-46.16	24.72	-33.54	7.73	1.36	3.01	0	P
	*	5795	19.47	-	-	7.45	7.73	1.28	3.01	0	P
	*	5795	6.09	-	-	-5.93	7.73	1.28	3.01	0	A
		5850.575	-18.87	-44.56	25.69	-30.96	7.73	1.35	3.01	0	P
		5874.355	-28.01	-38.19	10.18	-40.14	7.73	1.39	3.01	0	P
		5924.375	-29.42	-2.88	-26.54	-41.61	7.73	1.45	3.01	0	P
	5925.81	-29.16	-2.16	-27	-41.35	7.73	1.45	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE80 Full (Band Edge)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE80 Full CH 155 5775MHz		5649	-34.96	-7.96	-27	-47.1	7.73	1.4	3.01	0	P
		5651.2	-36.26	-10.15	-26.11	-48.4	7.73	1.4	3.01	0	P
		5705.6	-25.26	-36.83	11.57	-37.38	7.73	1.38	3.01	0	P
		5725	-22.3	-49.3	27	-34.4	7.73	1.36	3.01	0	P
	*	5775	14.68	-	-	2.64	7.73	1.3	3.01	0	P
	*	5775	1.47	-	-	-10.57	7.73	1.3	3.01	0	A
		5852.42	-25.95	-47.43	21.48	-38.05	7.73	1.36	3.01	0	P
		5873.74	-28.95	-39.3	10.35	-41.08	7.73	1.39	3.01	0	P
		5923.76	-37.42	-11.33	-26.09	-49.61	7.73	1.45	3.01	0	P
	5928.475	-35.3	-8.3	-27	-47.49	7.73	1.45	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



**UNII 3 5725~5850MHz**

**WIFI 802.11ax HE80 Full (Harmonic)**

WIFI Ant. 4	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Ground ing Factor ( dB )	Peak Avg. (P/A)
<b>802.11ax HE80 Full CH 155 5775MHz</b>		7700	-44.91	-23.71	-21.2	-58.27	7.73	2.62	3.01	0	P
		7700	-44.59	-3.39	-41.2	-57.95	7.73	2.62	3.01	0	A
		11550	-65.5	-44.3	-21.2	-79.12	7.73	2.88	3.01	0	P
		17325	-63.81	-36.81	-27	-78.44	7.73	3.89	3.01	0	P
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE80 Partial 996 (Band Edge)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE80 Partial 996/67 CH 155 5775MHz		5649.8	-30.65	-3.65	-27	-42.79	7.73	1.4	3.01	0	P
		5650.8	-29.57	-3.16	-26.41	-41.71	7.73	1.4	3.01	0	P
		5702.6	-23.6	-34.33	10.73	-35.73	7.73	1.39	3.01	0	P
		5724	-15.3	-40.02	24.72	-27.4	7.73	1.36	3.01	0	P
	*	5775	14.67	-	-	2.63	7.73	1.3	3.01	0	P
	*	5775	0.92	-	-	-11.12	7.73	1.3	3.01	0	A
		5851.395	-23.97	-47.79	23.82	-36.06	7.73	1.35	3.01	0	P
		5868.82	-24.31	-36.04	11.73	-36.43	7.73	1.38	3.01	0	P
		5923.965	-34.92	-8.68	-26.24	-47.11	7.73	1.45	3.01	0	P
	5932.165	-33.18	-6.18	-27	-45.38	7.73	1.46	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



Emission above 25GHz

5GHz WIFI 802.11ax HE20 Full (SHF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
5GHz 802.11ax HE20 Full SHF		39632	-36.33	-15.13	-21.2	-66.42	7.73	19.35	3.01	0	P
		39632	-52.02	-10.82	-41.2	-82.11	7.73	19.35	3.01	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
4		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	(P/A)
5GHz 802.11ax HE20 Full LF		37.29	-75.35	-20.15	-55.2	-90.97	7.73	0.18	3.01	4.7	P
		191.73	-73.54	-21.84	-51.7	-89.37	7.73	0.39	3.01	4.7	P
		238.71	-74.67	-25.47	-49.2	-90.58	7.73	0.47	3.01	4.7	P
		315.4	-71.74	-22.54	-49.2	-87.71	7.73	0.53	3.01	4.7	P
		799.8	-72.51	-23.31	-49.2	-88.86	7.73	0.91	3.01	4.7	P
		990.9	-72.56	-31.36	-41.2	-89.23	7.73	1.23	3.01	4.7	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11a (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11a CH 149 5745MHz		5647.6	-30.06	-3.06	-27	-42.2	7.73	1.4	3.01	0	P
		5697.4	-17.81	-25.89	8.08	-29.94	7.73	1.39	3.01	0	P
		5719.6	-10.5	-25.99	15.49	-22.61	7.73	1.37	3.01	0	P
		5723.8	-6.67	-30.93	24.26	-18.77	7.73	1.36	3.01	0	P
	*	5745	23.12	-	-	11.05	7.73	1.33	3.01	0	P
	*	5745	11.09	-	-	-0.98	7.73	1.33	3.01	0	A
802.11a CH 157 5785MHz		5645.8	-30.09	-3.09	-27	-42.23	7.73	1.4	3.01	0	P
		5700	-19.27	-29.27	10	-31.4	7.73	1.39	3.01	0	P
		5719.2	-16.06	-31.44	15.38	-28.17	7.73	1.37	3.01	0	P
		5724.6	-10.52	-36.61	26.09	-22.62	7.73	1.36	3.01	0	P
	*	5785	24.63	-	-	12.6	7.73	1.29	3.01	0	P
	*	5785	13.3	-	-	1.27	7.73	1.29	3.01	0	A
		5852.215	-16.62	-38.57	21.95	-28.71	7.73	1.35	3.01	0	P
		5856.725	-15.63	-30.75	15.12	-27.73	7.73	1.36	3.01	0	P
		5877.43	-20.48	-28.67	8.19	-32.61	7.73	1.39	3.01	0	P
802.11a CH 165 5825MHz		5928.885	-31.77	-4.77	-27	-43.96	7.73	1.45	3.01	0	P
	*	5825	25.4	-	-	13.35	7.73	1.31	3.01	0	P
	*	5825	12.94	-	-	0.89	7.73	1.31	3.01	0	A
		5850.4	-8.3	-34.39	26.09	-20.39	7.73	1.35	3.01	0	P
		5855.6	-12.62	-28.05	15.43	-24.72	7.73	1.36	3.01	0	P
		5920.6	-26.81	-3.05	-23.76	-39	7.73	1.45	3.01	0	P
	5931.6	-32.65	-5.65	-27	-44.85	7.73	1.46	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										





UNII 3 5725~5850MHz  
WIFI 802.11a (Harmonic)

WIFI Ant. 5	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Ground ing Factor ( dB )	Peak Avg. (P/A)
802.11a CH 149 5745MHz		7660	-38.73	-17.53	-21.2	-52.09	7.73	2.62	3.01	0	P
		7660	-40.69	0.51*	-41.2	-54.05	7.73	2.62	3.01	0	A
		11490	-66.56	-45.36	-21.2	-80.17	7.73	2.87	3.01	0	P
		17475	-64.39	-37.39	-27	-79.06	7.73	3.93	3.01	0	P
		23300	-61.03	-34.03	-27	-78.38	7.73	6.61	3.01	0	P
802.11a CH 157 5785MHz		7713	-39.45	-18.25	-21.2	-52.81	7.73	2.62	3.01	0	P
		7713	-41.33	-0.13*	-41.2	-54.69	7.73	2.62	3.01	0	A
		11570	-66.03	-44.83	-21.2	-79.65	7.73	2.88	3.01	0	P
		17355	-61.47	-34.47	-27	-76.11	7.73	3.9	3.01	0	P
		23140	-61.47	-34.47	-27	-78.8	7.73	6.59	3.01	0	P
802.11a CH 165 5825MHz		7768.85	-40.82	-13.82	-27	-54.19	7.73	2.63	3.01	0	P
		7768.85	-43.88	-2.68	-41.2	-57.25	7.73	2.63	3.01	0	A
		11650	-66.05	-44.85	-21.2	-79.69	7.73	2.9	3.01	0	P
		17475	-61.96	-34.96	-27	-76.63	7.73	3.93	3.01	0	P
		23300	-59.02	-32.02	-27	-76.37	7.73	6.61	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The unwanted emission of CH149 and CH157 was verified and passed by radiated measurement, please refer appendix F2.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE20 Full (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE20 Full CH 149 5745MHz		5648.6	-30.48	-3.48	-27	-42.62	7.73	1.4	3.01	0	P
		5651.4	-29.03	-3.07	-25.96	-41.17	7.73	1.4	3.01	0	P
		5720	-6.88	-22.48	15.6	-18.99	7.73	1.37	3.01	0	P
		5725	-3.78	-30.78	27	-15.88	7.73	1.36	3.01	0	P
	*	5745	22.91	-	-	10.84	7.73	1.33	3.01	0	P
	*	5745	11.03	-	-	-1.04	7.73	1.33	3.01	0	A
802.11ax HE20 Full CH 157 5785MHz		5644.4	-31.37	-4.37	-27	-43.51	7.73	1.4	3.01	0	P
		5656.6	-28.12	-6.02	-22.1	-40.26	7.73	1.4	3.01	0	P
		5716.8	-14.44	-29.15	14.71	-26.55	7.73	1.37	3.01	0	P
		5723.6	-13.5	-37.31	23.81	-25.6	7.73	1.36	3.01	0	P
	*	5785	25.1	-	-	13.07	7.73	1.29	3.01	0	P
	*	5785	13	-	-	0.97	7.73	1.29	3.01	0	A
		5851.395	-17.75	-41.57	23.82	-29.84	7.73	1.35	3.01	0	P
		5856.52	-17.32	-32.49	15.17	-29.42	7.73	1.36	3.01	0	P
		5922.735	-27.76	-2.43	-25.33	-39.95	7.73	1.45	3.01	0	P
802.11ax HE20 Full CH 165 5825MHz		5925.81	-30.87	-3.87	-27	-43.06	7.73	1.45	3.01	0	P
	*	5825	25.47	-	-	13.42	7.73	1.31	3.01	0	P
	*	5825	12.52	-	-	0.47	7.73	1.31	3.01	0	A
		5850	-7.37	-34.37	27	-19.46	7.73	1.35	3.01	0	P
		5858.8	-8.64	-23.17	14.53	-20.75	7.73	1.37	3.01	0	P
		5919.4	-28.09	-5.22	-22.87	-40.28	7.73	1.45	3.01	0	P
	5925.2	-31.41	-4.41	-27	-43.6	7.73	1.45	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic)

WIFI Ant. 5	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Grounding Factor ( dB )	Peak Avg. (P/A)
802.11ax HE20 Full CH 149 5745MHz		7659.98	-37.07	-15.87	-21.2	-50.43	7.73	2.62	3.01	0	P
		7659.98	-38.74	2.46*	-41.2	-52.1	7.73	2.62	3.01	0	A
		11490	-64.55	-43.35	-21.2	-78.16	7.73	2.87	3.01	0	P
		17235	-63.48	-36.48	-27	-78.08	7.73	3.86	3.01	0	P
		22980	-61.2	-40	-21.2	-78.49	7.73	6.55	3.01	0	P
802.11ax HE20 Full CH 157 5785MHz		7713.31	-38.03	-16.83	-21.2	-51.39	7.73	2.62	3.01	0	P
		7713.31	-39.39	1.81*	-41.2	-52.75	7.73	2.62	3.01	0	A
		11570	-66.2	-45	-21.2	-79.82	7.73	2.88	3.01	0	P
		17355	-63.4	-36.4	-27	-78.04	7.73	3.9	3.01	0	P
		23140	-59.51	-32.51	-27	-76.84	7.73	6.59	3.01	0	P
802.11ax HE20 Full CH 165 5825MHz		7766.64	-39.33	-12.33	-27	-52.7	7.73	2.63	3.01	0	P
		11650	-65.91	-44.71	-21.2	-79.55	7.73	2.9	3.01	0	P
		17475	-64.26	-37.26	-27	-78.93	7.73	3.93	3.01	0	P
		23300	-59.97	-32.97	-27	-77.32	7.73	6.61	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The unwanted emission of CH149 and CH157 was verified and passed by radiated measurement, please refer appendix F2.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE20 Partial 26/0 CH 149 5745MHz		5635.6	-29.7	-2.7	-27	-41.85	7.73	1.41	3.01	0	P
		5696.8	-18.16	-25.8	7.64	-30.29	7.73	1.39	3.01	0	P
		5720	-12.21	-27.81	15.6	-24.32	7.73	1.37	3.01	0	P
		5723.2	-9.85	-32.75	22.9	-21.95	7.73	1.36	3.01	0	P
	*	5745	31.1	-	-	19.03	7.73	1.33	3.01	0	P
	*	5745	20.17	-	-	8.1	7.73	1.33	3.01	0	A
802.11ax HE20 Partial 26/4 CH 157 5785MHz		5617.4	-37.5	-10.5	-27	-49.66	7.73	1.42	3.01	0	P
		5652	-37.45	-11.94	-25.51	-49.59	7.73	1.4	3.01	0	P
		5709.2	-31.28	-43.86	12.58	-43.4	7.73	1.38	3.01	0	P
		5725	-34.95	-61.95	27	-47.05	7.73	1.36	3.01	0	P
	*	5785	31.45	-	-	19.42	7.73	1.29	3.01	0	P
	*	5785	19.13	-	-	7.1	7.73	1.29	3.01	0	A
		5851.6	-34.35	-57.7	23.35	-46.44	7.73	1.35	3.01	0	P
		5873.125	-29.58	-40.1	10.52	-41.71	7.73	1.39	3.01	0	P
		5923.76	-37.56	-11.47	-26.09	-49.75	7.73	1.45	3.01	0	P
	5936.265	-37.16	-10.16	-27	-49.36	7.73	1.46	3.01	0	P	
802.11ax HE20 Partial 26/8 CH 165 5825MHz	*	5825	30.84	-	-	18.79	7.73	1.31	3.01	0	P
	*	5825	19.64	-	-	7.59	7.73	1.31	3.01	0	A
		5850	-8.54	-35.54	27	-20.63	7.73	1.35	3.01	0	P
		5870.8	-11.65	-22.82	11.17	-23.77	7.73	1.38	3.01	0	P
		5924.4	-36.47	-9.91	-26.56	-48.66	7.73	1.45	3.01	0	P
		5934.8	-33.13	-6.13	-27	-45.33	7.73	1.46	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 5725~5850MHz

WIFI 802.11ax HE20 Partial 26 (Harmonic)

WIFI Ant. 5	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Grounding Factor ( dB )	Peak Avg. (P/A)
802.11ax HE20 Partial 26/0 CH 149 5745MHz		7660	-37.16	-15.96	-21.2	-50.52	7.73	2.62	3.01	0	P
		7660	-37.97	3.23*	-41.2	-51.33	7.73	2.62	3.01	0	A
		11490	-65.43	-44.23	-21.2	-79.04	7.73	2.87	3.01	0	P
		17235	-57.66	-30.66	-27	-72.26	7.73	3.86	3.01	0	P
		22980	-53.05	-31.85	-21.2	-70.34	7.73	6.55	3.01	0	P
802.11ax HE20 Partial 26/4 CH 157 5785MHz		7713.3	-38.31	-17.11	-21.2	-51.67	7.73	2.62	3.01	0	P
		7713.3	-38.63	2.57*	-41.2	-51.99	7.73	2.62	3.01	0	A
		11570	-63.76	-42.56	-21.2	-77.38	7.73	2.88	3.01	0	P
		17355	-60.44	-33.44	-27	-75.08	7.73	3.9	3.01	0	P
802.11ax HE20 Partial 26/8 CH 165 5825MHz		7766.6	-39.55	-12.55	-27	-52.92	7.73	2.63	3.01	0	P
		11650	-60.86	-39.66	-21.2	-74.5	7.73	2.9	3.01	0	P
		17475	-64.29	-37.29	-27	-78.96	7.73	3.93	3.01	0	P
		23300	-54.48	-27.48	-27	-71.83	7.73	6.61	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The unwanted emission of CH149 and CH157 was verified and passed by radiated measurement, please refer appendix F2.										



**UNII 3 - 5725~5850MHz**

**WIFI 802.11ax HE20 Partial 52 (Band Edge)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
<b>802.11ax HE20 Partial 52/37 CH 149 5745MHz</b>		5649.2	-31.61	-4.61	-27	-43.75	7.73	1.4	3.01	0	P
		5699.8	-16.25	-26.1	9.85	-28.38	7.73	1.39	3.01	0	P
		5708.4	-11.01	-23.36	12.35	-23.13	7.73	1.38	3.01	0	P
		5721.8	-10.29	-30	19.71	-22.4	7.73	1.37	3.01	0	P
	*	5745	29.95	-	-	17.88	7.73	1.33	3.01	0	P
	*	5745	17.32	-	-	5.25	7.73	1.33	3.01	0	A
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



**UNII 3 - 5725~5850MHz**

**WIFI 802.11ax HE20 Partial 106 (Band Edge)**

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE20 Partial 106/53 CH 149 5745MHz		5646.6	-32.62	-5.62	-27	-44.76	7.73	1.4	3.01	0	P
		5657.4	-27.94	-6.44	-21.5	-40.08	7.73	1.4	3.01	0	P
		5718.4	-5.58	-20.73	15.15	-17.69	7.73	1.37	3.01	0	P
		5721.2	-3.86	-22.2	18.34	-15.97	7.73	1.37	3.01	0	P
	*	5745	25.83	-	-	13.76	7.73	1.33	3.01	0	P
	*	5745	14.25	-	-	2.18	7.73	1.33	3.01	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE20 Partial 242 (Band Edge)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE20 Partial 242/61 CH 149 5745MHz		5649.8	-28.86	-1.86	-27	-41	7.73	1.4	3.01	0	P
		5653.4	-28.2	-3.73	-24.47	-40.34	7.73	1.4	3.01	0	P
		5719.8	-11.28	-26.82	15.54	-23.39	7.73	1.37	3.01	0	P
		5725	-8.05	-35.05	27	-20.15	7.73	1.36	3.01	0	P
	*	5745	22.9	-	-	10.83	7.73	1.33	3.01	0	P
	*	5745	10.51	-	-	-1.56	7.73	1.33	3.01	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										





UNII 3 - 5725~5850MHz

WIFI 802.11ax HE40 Full (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE40 Full CH 151 5755MHz		5635	-30.7	-3.7	-27	-42.85	7.73	1.41	3.01	0	P
		5651	-29.91	-3.65	-26.26	-42.05	7.73	1.4	3.01	0	P
		5717.2	-11.34	-26.16	14.82	-23.45	7.73	1.37	3.01	0	P
		5721	-8.33	-26.21	17.88	-20.44	7.73	1.37	3.01	0	P
	*	5755	19.05	-	-	6.99	7.73	1.32	3.01	0	P
	*	5755	6.55	-	-	-5.51	7.73	1.32	3.01	0	A
		5852.01	-31.75	-54.17	22.42	-43.84	7.73	1.35	3.01	0	P
		5861.44	-29.27	-43.07	13.8	-41.38	7.73	1.37	3.01	0	P
		5922.735	-37.66	-12.33	-25.33	-49.85	7.73	1.45	3.01	0	P
	5928.065	-37.82	-10.82	-27	-50.01	7.73	1.45	3.01	0	P	
802.11ax HE40 Full CH 159 5795MHz		5629.8	-31.74	-4.74	-27	-43.89	7.73	1.41	3.01	0	P
		5654.6	-27.89	-4.31	-23.58	-40.03	7.73	1.4	3.01	0	P
		5719.8	-22.67	-38.21	15.54	-34.78	7.73	1.37	3.01	0	P
		5723.8	-19.49	-43.75	24.26	-31.59	7.73	1.36	3.01	0	P
	*	5795	19.66	-	-	7.64	7.73	1.28	3.01	0	P
	*	5795	6.9	-	-	-5.12	7.73	1.28	3.01	0	A
		5852.215	-18.6	-40.55	21.95	-30.69	7.73	1.35	3.01	0	P
		5872.92	-26.69	-37.27	10.58	-38.82	7.73	1.39	3.01	0	P
		5924.17	-35.58	-9.19	-26.39	-47.77	7.73	1.45	3.01	0	P
	5932.985	-32.91	-5.91	-27	-45.11	7.73	1.46	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 5725~5850MHz

WIFI 802.11ax HE40 Full (Harmonic)

WIFI Ant. 5	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Grounding Factor ( dB )	Peak Avg. (P/A)
802.11ax HE40 Full CH 151 5755MHz		11510	-65.81	-44.61	-21.2	-79.43	7.73	2.88	3.01	0	P
		17265	-63.23	-36.23	-27	-77.84	7.73	3.87	3.01	0	P
		23020	-61.92	-40.72	-21.2	-79.22	7.73	6.56	3.01	0	P
802.11ax HE40 Full CH 159 5795MHz		7726.647	-38.74	-17.54	-21.2	-52.11	7.73	2.63	3.01	0	P
		7726.647	-39.42	1.78*	-41.2	-52.79	7.73	2.63	3.01	0	A
		11590	-66.13	-44.93	-21.2	-79.76	7.73	2.89	3.01	0	P
		17385	-61.79	-34.79	-27	-76.43	7.73	3.9	3.01	0	P
		23180	-62.15	-35.15	-27	-79.48	7.73	6.59	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The unwanted emission of CH159 was verified and passed by radiated measurement, please refer appendix F2.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE40 Partial 484 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE40 Partial 484/65 CH 151 5755MHz		5646.4	-32.31	-5.31	-27	-44.45	7.73	1.4	3.01	0	P
		5650.2	-31.99	-5.14	-26.85	-44.13	7.73	1.4	3.01	0	P
		5717.4	-12.06	-26.93	14.87	-24.17	7.73	1.37	3.01	0	P
		5723.8	-10	-34.26	24.26	-22.1	7.73	1.36	3.01	0	P
	*	5755	18.47	-	-	6.41	7.73	1.32	3.01	0	P
	*	5755	6.1	-	-	-5.96	7.73	1.32	3.01	0	A
		5853.65	-35.03	-53.71	18.68	-47.13	7.73	1.36	3.01	0	P
		5862.26	-34.39	-47.96	13.57	-46.5	7.73	1.37	3.01	0	P
		5922.325	-38.29	-13.26	-25.03	-50.48	7.73	1.45	3.01	0	P
	5949.795	-37.09	-10.09	-27	-49.3	7.73	1.47	3.01	0	P	
802.11ax HE40 Partial 484/65 CH 159 5795MHz		5649.8	-32.82	-5.82	-27	-44.96	7.73	1.4	3.01	0	P
		5650.8	-33.65	-7.24	-26.41	-45.79	7.73	1.4	3.01	0	P
		5702	-24.02	-34.58	10.56	-36.15	7.73	1.39	3.01	0	P
		5721.8	-19.48	-39.19	19.71	-31.59	7.73	1.37	3.01	0	P
	*	5795	20.49	-	-	8.47	7.73	1.28	3.01	0	P
	*	5795	6.91	-	-	-5.11	7.73	1.28	3.01	0	A
		5852.625	-17.42	-38.43	21.01	-29.52	7.73	1.36	3.01	0	P
		5871.895	-23.72	-34.59	10.87	-35.85	7.73	1.39	3.01	0	P
		5924.785	-30.66	-3.82	-26.84	-42.85	7.73	1.45	3.01	0	P
	5937.495	-30.06	-3.06	-27	-42.26	7.73	1.46	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE80 Full (Band Edge)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE80 Full CH 155 5775MHz		5640.4	-32.73	-5.73	-27	-44.88	7.73	1.41	3.01	0	P
		5656.4	-32.05	-9.8	-22.25	-44.19	7.73	1.4	3.01	0	P
		5713	-19.13	-32.77	13.64	-31.25	7.73	1.38	3.01	0	P
		5720.2	-18.36	-34.42	16.06	-30.47	7.73	1.37	3.01	0	P
	*	5775	14.37	-	-	2.33	7.73	1.3	3.01	0	P
	*	5775	2.31	-	-	-9.73	7.73	1.3	3.01	0	A
		5853.445	-27.18	-46.33	19.15	-39.28	7.73	1.36	3.01	0	P
		5874.15	-28.03	-38.27	10.24	-40.16	7.73	1.39	3.01	0	P
		5921.3	-36.54	-12.27	-24.27	-48.73	7.73	1.45	3.01	0	P
	5949.385	-36.5	-9.5	-27	-48.7	7.73	1.46	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



UNII 3 5725~5850MHz

WIFI 802.11ax HE80 Full (Harmonic)

WIFI Ant. 5	Note	Frequency ( MHz )	Level ( dBm )	Over Limit ( dB )	Limit Line ( dBm )	Read Level ( dBm )	Antenna Gain ( dBi )	Path Loss ( dB )	MIMO Factor ( dB )	Grounding Factor ( dB )	Peak Avg. (P/A)
802.11ax HE80 Full CH 155 5775MHz		7699.981	-37.67	-16.47	-21.2	-51.03	7.73	2.62	3.01	0	P
		7699.981	-38.08	3.12*	-41.2	-51.44	7.73	2.62	3.01	0	A
		11550	-66.39	-45.19	-21.2	-80.01	7.73	2.88	3.01	0	P
		17325	-63.44	-36.44	-27	-78.07	7.73	3.89	3.01	0	P
		21300	-60.1	-38.9	-21.2	-76.93	7.73	6.09	3.01	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The unwanted emission of CH155 was verified and passed by radiated measurement, please refer appendix F2.										



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE80 Partial 996 (Band Edge)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11ax HE80 Partial 996/67 CH 155 5775MHz		5635	-30.52	-3.52	-27	-42.67	7.73	1.41	3.01	0	P
		5652.4	-31.22	-6	-25.22	-43.36	7.73	1.4	3.01	0	P
		5701.8	-17.91	-28.42	10.51	-30.04	7.73	1.39	3.01	0	P
		5721.6	-8.8	-28.05	19.25	-20.91	7.73	1.37	3.01	0	P
	*	5775	15.89	-	-	3.85	7.73	1.3	3.01	0	P
	*	5775	2.62	-	-	-9.42	7.73	1.3	3.01	0	A
		5854.47	-20.85	-37.66	16.81	-32.95	7.73	1.36	3.01	0	P
		5874.56	-21.97	-32.09	10.12	-34.1	7.73	1.39	3.01	0	P
		5923.965	-33.62	-7.38	-26.24	-45.81	7.73	1.45	3.01	0	P
	5937.29	-32.45	-5.45	-27	-44.65	7.73	1.46	3.01	0	P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



**Emission above 25GHz**

**5GHz WIFI 802.11ax HE20 Partial 26 (SHF)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
5GHz 802.11ax HE20 Partial SHF		39920	-39.19	-17.99	-21.2	-69.81	7.73	19.88	3.01	0	P
		39920	-50.72	-9.52	-41.2	-81.34	7.73	19.88	3.01	0	A
<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 HE20 Partial 26 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
5GHz 802.11ax HE20 Partial LF		62.13	-75.31	-20.11	-55.2	-90.97	7.73	0.22	3.01	4.7	P
		177.69	-73.77	-22.07	-51.7	-89.57	7.73	0.36	3.01	4.7	P
		218.73	-74.21	-25.01	-49.2	-90.14	7.73	0.49	3.01	4.7	P
		507.9	-74.18	-24.98	-49.2	-90.26	7.73	0.64	3.01	4.7	P
		711.6	-70.31	-21.11	-49.2	-86.61	7.73	0.86	3.01	4.7	P
		977.6	-72.8	-31.6	-41.2	-89.45	7.73	1.21	3.01	4.7	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										





**Note symbol**

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
5		( MHz )	( dBm )	( dB )	( dBm )	( dBm )	( dBi )	( dB )	( dB )	( dB )	( P/A )
802.11a CH 165 5825MHz		7768.85	-40.82	-13.82	-27	-54.19	7.73	2.63	3.01	0	P
		7768.85	-43.88	-2.68	-41.2	-57.25	7.73	2.63	3.01	0	A
		11650	-66.05	-44.85	-21.2	-79.69	7.73	2.9	3.01	0	P
		17475	-61.96	-34.96	-27	-76.63	7.73	3.93	3.01	0	P
		23300	-59.02	-32.02	-27	-76.37	7.73	6.61	3.01	0	P

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. MIMO Factor(dB) = 10 log (N<sub>ANT</sub>), where N<sub>ANT</sub> is the number of outputs
3. Grounding Factor(dB) = Ground reflection factor (i.e., 6 dB for f ≤ 30 MHz and 4.7 dB for 30 MHz < f ≤ 960 MHz)
4. Level(dBm) = Antenna Gain(dBi) + Path Loss(dB) + Read Level(dBm) + MIMO Factor(dB) + Grounding Factor(dB)
5. Over Limit(dB) = Level(dBm) – Limit Line(dBm)

**For Peak Limit @ 7768.85MHz:**

1. Level(dBm)
  - = Antenna Gain (dBi) + Path Loss (dB) + MIMO Factor (dB) + Grounding Factor (dB) + Read Level (dBm)
  - = 7.73(dBi) + 2.63(dB) + 3.01(dB) – 54.19 (dBm)
  - = -40.82 (dBm)
2. Over Limit(dB)
  - = Level (dBm) – Limit Line (dBm)
  - = -40.82 (dBm) + 27(dBm)
  - = -13.82(dB)

**For Average Limit @ 7768.85MHz:**

1. Level(dBm)
  - = Antenna Gain (dBi) + Path Loss (dB) + MIMO Factor (dB) + Grounding Factor (dB) + Read Level (dBm)
  - = 7.73(dBi) + 2.63(dB) + 3.01(dB) – 57.25 (dBm)
  - = -43.88 (dBm)
2. Over Limit(dB) = Level(dBm) – Limit Line(dBm)
  - = -43.88 (dBm) + 41.2(dBm)
  - = -2.68(dB)

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



## Appendix C. Conducted Spurious Emission Plots

Test Engineer :	Richard Qiu, Jacob Yu, Eric Chang, Ken Wu and Nick Yu	Temperature :	22.7~24.8°C
		Relative Humidity :	52~59%

### UNII 3 - 5725~5850MHz

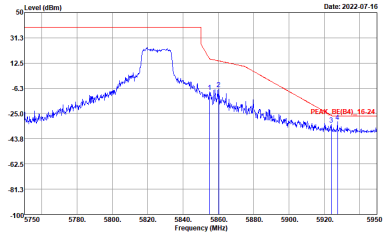
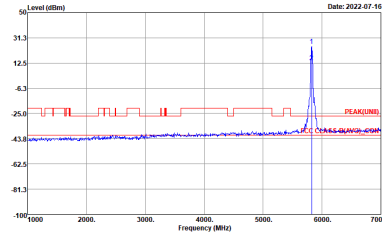
### 802.11a (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11a CH149 5745MHz	
4	CSE	Fundamental
Peak	<p>Site Condition : THIS-HY : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>	<p>Site Condition : THIS-HY : PEAK(LIN) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>



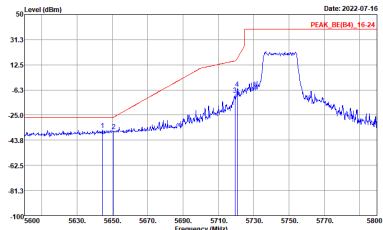
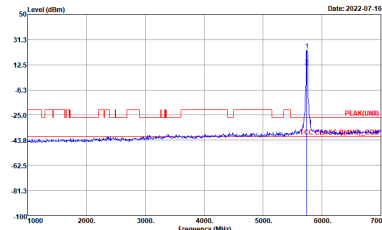
WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11a CH157 5785MHz	
4	CSE	Fundamental
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH05-HY Condition : PEAK(L0R) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11a CH165 5825MHz	
4	CSE	Fundamental
Peak	 <p>Site : TH95-HY Condition : PEAK_B4_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	 <p>Site : TH95-HY Condition : PEAK(LIN) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



UNII 3 - 5725~5850MHz  
802.11ax HE20 Full (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Full CH149 5745MHz	
4	CSE	Fundamental
Peak	 <p>Site : TH95-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	 <p>Site : TH95-HY Condition : PEAK(FUNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Full CH157 5785MHz	
4	CSE	Fundamental
Peak	<p>Date: 2022-07-16 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Date: 2022-07-16 PEAK(LIN)</p> <p>Site : TH05-HY Condition : PEAK(LIN) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Date: 2022-07-16 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Full CH165 5825MHz	
4	CSE	Fundamental
Peak	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p>Date: 2022-07-16</p> <p>Site : TH95-HY Condition : PEAK_BE(B4), 16.24 ANT GAIN+7.73 HORIZONTAL : RBW: 1000.000kHz VIEW: 3000.000kHz</p> </div> <div style="width: 45%;"> <p>Date: 2022-07-16</p> <p>Site : TH95-HY Condition : PEAK(FUN) ANT GAIN+7.73 HORIZONTAL : RBW: 1000.000kHz VIEW: 3000.000kHz</p> </div> </div>	





**UNII 3 - 5725~5850MHz**  
**802.11ax HE20 Partial 26 (Band Edge)**

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Band Edge</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 26/0 CH149 5745MHz</b>	
<b>4</b>	<b>CSE</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : TH05-HY          Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL          : RESW:1000.000Hz VSW:3000.000Hz</p>	<p>Site : TH05-HY          Condition : PEAK(LIN) ANT GAIN+7.73 HORIZONTAL          : RESW:1000.000Hz VSW:3000.000Hz</p>



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Partial 26/4 CH157 5785MHz	
4	CSE	Fundamental
Peak		
Peak		Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Partial 26/8 CH165 5825MHz	
4	CSE	Fundamental
Peak	<p>Site : THSS-HY Condition : PEAK_BE(B4)_1624 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : THSS-HY Condition : PEAK(FUND) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



UNII 3 - 5725~5850MHz  
802.11ax HE20 Partial 52 (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Partial 52/37 CH149 5745MHz	
4	CSE	Fundamental
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



**UNII 3 - 5725~5850MHz**  
**802.11ax HE20 Partial 106 (Band Edge)**

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Band Edge</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 106/53 CH149 5745MHz</b>	
<b>4</b>	<b>CSE</b>	<b>Fundamental</b>
<b>Peak</b>		



**UNII 3 - 5725~5850MHz**  
**802.11ax HE20 Partial 242 (Band Edge)**

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Band Edge</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 242/61 CH149 5745MHz</b>	
<b>4</b>	<b>CSE</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Date: 2022-07-23  PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY  Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL  : RBW:1000.000kHz VBW:3000.000kHz</p>	<p>Date: 2022-07-23  PEAK(LNB)</p> <p>Site : TH05-HY  Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL  : RBW:1000.000kHz VBW:3000.000kHz</p>



UNII 3 - 5725~5850MHz  
802.11ax HE40 Full (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE40 Full CH151 5755MHz	
4	CSE	Fundamental
Peak	<p>Date: 2022-07-16 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VEW:3000.000kHz</p>	<p>Date: 2022-07-16 PEAK(LNB)</p> <p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VEW:3000.000kHz</p>
Peak	<p>Date: 2022-07-16 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VEW:3000.000kHz</p>	Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Full CH159 5795MHz	
4	CSE	Fundamental
Peak	<p>Date: 2022-07-16</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>	<p>Date: 2022-07-16</p> <p>Site : TH05-HY Condition : PEAK(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>
Peak	<p>Date: 2022-07-16</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>	Left blank





**UNII 3 - 5725~5850MHz**  
**802.11ax HE40 Partial 484 (Band Edge)**

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE40 Partial 484/65 CH151 5755MHz	
4	CSE	Fundamental
Peak		
Peak		Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE40 Partial 484/65 CH159 5795MHz	
4	CSE	Fundamental
Peak	<p>Date: 2022-07-24 PEAK_BE(B4)_16-24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Date: 2022-07-24 PEAK(UMI)_16-24</p> <p>Site : TH05-HY Condition : PEAK(UMI)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Date: 2022-07-24 PEAK_BE(B4)_16-24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



UNII 3 - 5725~5850MHz

802.11ax HE80 Full (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE80 Full CH155 5775MHz	
4	CSE	Fundamental
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>	<p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>
Peal	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>	Left blank



UNII 3 - 5725~5850MHz

802.11ax HE80 Partial 996 (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE80 Partial 996/67 CH155 5775MHz	
4	CSE	Fundamental
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VEW:3000.000kHz</p>	<p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VEW:3000.000kHz</p>
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VEW:3000.000kHz</p>	Left blank



UNII 3 - 5725~5850MHz

WIFI 802.11a (Harmonic)

WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11a	
4	CH149 5745MHz	CH157 5785MHz
Peak Avg.	<p>Site : TH05-HHY Condition : PEAK(UNII) ANT GAIN=7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>	<p>Site : TH05-HHY Condition : PEAK(UNII) ANT GAIN=7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>



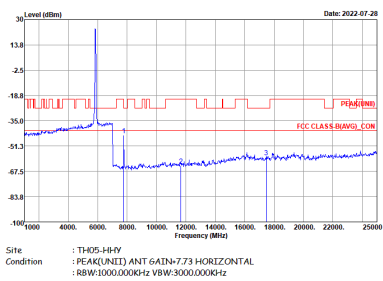
WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11a	
4	CH165 5825MHz	
Peak Avg.	<p>Site : TH05-18-FY Condition : PEAK(LINE) ANT 6AIN-7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>	Left blank



**UNII 3 - 5725~5850MHz**  
**WIFI 802.11ax HE20 Full (Harmonic)**

WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE20 Full	
<b>4</b>	<b>CH149 5745MHz</b>	<b>CH157 5785MHz</b>
<b>Peak Avg.</b>	<p>Site : TH05-HRHY            Condition : PEAK(LINE) ANT GAIN=7.73 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz</p>	<p>Site : TH05-HRHY            Condition : PEAK(LINE) ANT GAIN=7.73 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz</p>



WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE20 Full	
4	CH165 5825MHz	
Peak Avg.	 <p>Site : TH05-18-FY Condition : PEAK(LINE) ANT 6AIN-7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>	Left blank

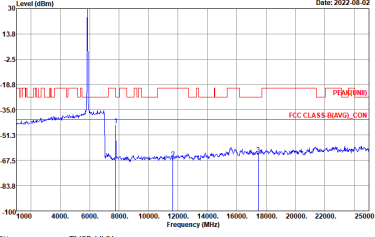




**UNII 3 - 5725~5850MHz**  
**WIFI 802.11ax HE20 Partial 26 (Harmonic)**

WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE20 Partial 26	
4	Partial 26/0 CH149 5745MHz	Partial 26/4 CH157 5785MHz
Peak Avg.	<p>Site : TH05-HRY            Condition : PEAK(AVG) ANT GAIN=7.73 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz</p>	<p>Site : TH05-HRY            Condition : PEAK(AVG) ANT GAIN=7.73 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz</p>



WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE20 Partial 26	
4	Partial 26/8 CH165 5825MHz	
Peak Avg.	 <p>Site : TH05-18-FY Condition : PEAK(LINE) ANT 6AIN-7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>	Left blank



UNII 3 - 5725~5850MHz
WIFI 802.11ax HE40 Full (Harmonic)

Table with 2 columns: CH151 5755MHz and CH159 5795MHz. Rows include WIFI, ANT, and Peak Avg. Each cell contains a spectral plot and test conditions.

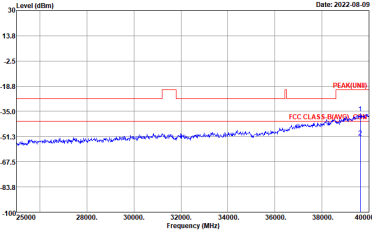


UNII 3 - 5725~5850MHz  
WIFI 802.11ax HE80 Full (Harmonic)

WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE80 Full	
4	CH155 5775MHz	
Peak Avg.	<p>Site : TH05-H4V Condition : PEAK(UNED) ANT GAIN=7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>	Left blank



Emission above 25GHz  
5GHz WIFI 802.11ax HE20 Full (SHF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11ax HE20 Full SHF	
5	CSE	-
Peak Avg.	 <p>Site : TH05-H4V Condition : PEAK(UM) ANT GAIN=7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>	Left blank



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

WIFI	5GHz 5725-5850MHz	
ANT	802.11ax HE20 Full LF	
4	CSE	-
QP / Peak	<p>Site : TH05-HV Condition : FCC CLASS-B_CON ANT 64DN-7.73 HORIZONTAL : RBW:120.000kHz VBW:300.000kHz</p>	Left blank



UNII 3 - 5725~5850MHz

802.11a (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11a CH149 5745MHz	
5	CSE	Fundamental
Peak	<p>Date: 2022-06-28 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Date: 2022-06-28 PEAK(LNB)</p> <p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11a CH157 5785MHz	
5	CSE	Fundamental
Peak	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK(UNII) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank

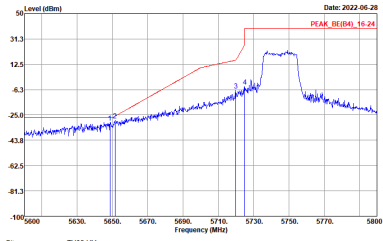
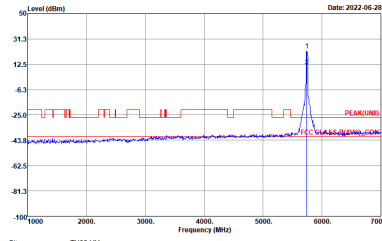




WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11a CH165 5825MHz	
5	CSE	Fundamental
Peak	<p>Site : THSS-HY Condition : PEAK_BI(B4)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VEW:3000.000kHz</p>	<p>Site : THSS-HY Condition : PEAK(LIN) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VEW:3000.000kHz</p>



UNII 3 - 5725~5850MHz  
802.11ax HE20 Full (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Full CH149 5745MHz	
5	CSE	Fundamental
Peak	 <p>Site : TH05-HY Condition : PEAK: BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	 <p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Full CH157 5785MHz	
5	CSE	Fundamental
Peak	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK(L0R0) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>
Peak	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz</p>	Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Full CH165 5825MHz	
5	CSE	Fundamental
Peak	<p>Site : THSS-HY Condition : PEAK_B4(B4)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : THSS-HY Condition : PEAK(FUND) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



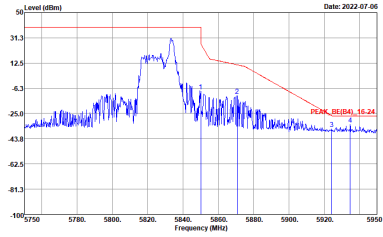
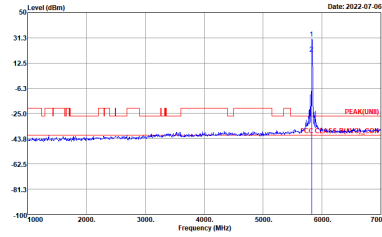
UNII 3 - 5725~5850MHz  
802.11ax HE20 Partial 26 (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Partial 26/0 CH149 5745MHz	
5	CSE	Fundamental
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL RESW:1000.000Hz VSW:3000.000Hz</p> <p>Site : TH05-HY Condition : PEAK(LIN) ANT GAIN+7.73 HORIZONTAL RESW:1000.000Hz VSW:3000.000Hz</p>	



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Partial 26/4 CH157 5785MHz	
5	CSE	Fundamental
Peak	<p>Date: 2022-07-06 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Date: 2022-07-06 PEAK(L000)</p> <p>Site : TH05-HY Condition : PEAK(L000) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Date: 2022-07-06 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Partial 26/8 CH165 5825MHz	
5	CSE	Fundamental
Peak	 <p>Site : TH95-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	 <p>Site : TH95-HY Condition : PEAK(FUND) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



**UNII 3 - 5725~5850MHz**  
**802.11ax HE20 Partial 52 (Band Edge)**

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Band Edge</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 52/37 CH149 5745MHz</b>	
<b>5</b>	<b>CSE</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : TH05-HY          Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL          : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH05-HY          Condition : PEAK(LINB) ANT GAIN+7.73 HORIZONTAL          : RBW:1000.000kHz VIEW:3000.000kHz</p>





UNII 3 - 5725~5850MHz  
802.11ax HE20 Partial 106 (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
5	CSE	Fundamental
Peak	<p>Site : TH05-HY Condition : PEAK_BF(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH05-HY Condition : PEAK(LINB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>



**UNII 3 - 5725~5850MHz**  
**802.11ax HE20 Partial 242 (Band Edge)**

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Band Edge</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 242/61 CH149 5745MHz</b>	
<b>5</b>	<b>CSE</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : TH05-HY          Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL          : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH05-HY          Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL          : RBW:1000.000kHz VIEW:3000.000kHz</p>



UNII 3 - 5725~5850MHz  
802.11ax HE40 Full (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE40 Full CH151 5755MHz	
5	CSE	Fundamental
Peak		
Peak		Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE20 Full CH159 5795MHz	
5	CSE	Fundamental
Peak	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK(L00) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Date: 2022-06-28</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



UNII 3 - 5725~5850MHz

802.11ax HE40 Partial 484 (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE40 Partial 484/65 CH151 5755MHz	
5	CSE	Fundamental
Peak	<p>Date: 2022-07-06 PEAK_BE(B4)_16-24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Date: 2022-07-06 PEAK(LNB)</p> <p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Date: 2022-07-06 PEAK_BE(B4)_16-24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16-24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE40 Partial 484/65 CH159 5795MHz	
5	CSE	Fundamental
Peak	<p>Date: 2022-07-06 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Date: 2022-07-06 PEAK(L0R0)</p> <p>Site : TH05-HY Condition : PEAK(L0R0) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Date: 2022-07-06 PEAK_BE(B4)_16.24</p> <p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



UNII 3 - 5725~5850MHz

802.11ax HE80 Full (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE80 Full CH155 5775MHz	
5	CSE	Fundamental
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peal	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



UNII 3 - 5725~5850MHz

802.11ax HE80 Partial 996 (Band Edge)

WIFI	UNII 3 5725~5850MHz Band Edge	
ANT	802.11ax HE80 Partial 996/87 CH155 5775MHz	
5	CSE	Fundamental
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH05-HY Condition : PEAK(LNB) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>
Peak	<p>Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank





UNII 3 - 5725~5850MHz

WIFI 802.11a (Harmonic)

WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11a	
5	CH149 5745MHz	CH157 5785MHz
Peak Avg.	<p>Site : TH95-HY Condition : PEAK(UM) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH95-HY Condition : PEAK(UM) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>

**Remark:** The unwanted emission of CH149 and CH157 was verified and passed by radiated measurement, please refer appendix G2



WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11a	
5	CH165 5825MHz	
Peak Avg.	<p>Site : TH95-HY Condition : PEAK(AVG) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank

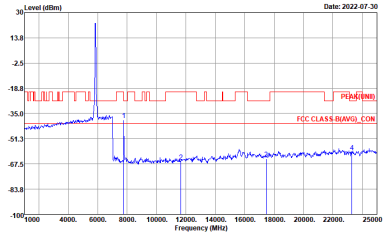


UNII 3 - 5725~5850MHz  
WIFI 802.11ax HE20 Full (Harmonic)

WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE20 Full	
5	CH149 5745MHz	CH157 5785MHz
Peak Avg.	<p>Site : TH05-HY Condition : PEAK(UM) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	<p>Site : TH05-HY Condition : PEAK(UM) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>

**Remark:** The unwanted emission of CH149 and CH157 was verified and passed by radiated measurement, please refer appendix G2.



WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE20 Full	
5	CH165 5825MHz	
Peak Avg.	 <p>Site : TH95-HY Condition : PEAK(AVG) ANT GAIN+7.73 HORIZONTAL : RBW:1000.000kHz VIEW:3000.000kHz</p>	Left blank



UNII 3 - 5725~5850MHz

WIFI 802.11ax HE20 Partial 26 (Harmonic)

WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE20 Partial 26	
5	Partial 26/0 CH149 5745MHz	Partial 26/4 CH157 5785MHz
Peak Avg.	<p>Site : TH05-HRY Condition : PEAK(UNEI) ANT GAIN-7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>	<p>Site : TH05-HRY Condition : PEAK(UNEI) ANT GAIN-7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>

**Remark:** The unwanted emission of CH149 and CH157 was verified and passed by radiated measurement, please refer appendix G2.



WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE20 Partial 26	
5	Partial 26/8 CH165 5825MHz	
Peak Avg.	<p>Date: 2022-08-02</p> <p>Site : TH05-18-FY Condition : PEAK(UNIT) ANT 6AIN-7.73 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz</p>	Left blank



UNII 3 - 5725~5850MHz  
WIFI 802.11ax HE40 Full (Harmonic)

WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE40 Full	
5	CH151 5755MHz	CH159 5795MHz
Peak Avg.	<p>Site : TH05-HRHY Condition : PEAK(UNEI) ANT GAIN-7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>	<p>Site : TH05-HRHY Condition : PEAK(UNEI) ANT GAIN-7.73 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz</p>

**Remark:** The unwanted emission of CH159 was verified and passed by radiated measurement, please refer appendix G2.



UNII 3 - 5725~5850MHz  
 WIFI 802.11ax HE80 Full (Harmonic)

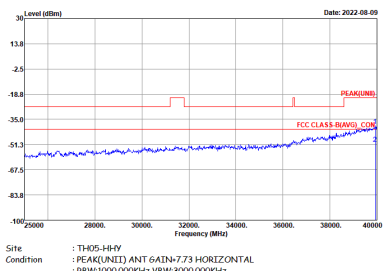
WIFI	UNII 3 5725~5850MHz Harmonic	
ANT	802.11ax HE80 Full	
5	CH155 5775MHz	
Peak Avg.	<p>Site : TH05-H4V        Condition : PEAK(UNII) ANT GAIN-7.73 HORIZONTAL        : RBW:1000.000KHz VBW:3000.000KHz</p>	Left blank

**Remark:** The unwanted emission of CH155 was verified and passed by radiated measurement, please refer appendix G2.





**Emission above 25GHz**  
**5GHz WIFI 802.11ax HE20 Partial 26 (SHF)**

<b>WIFI</b>	<b>5GHz 5725~5850MHz</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 26</b>	
<b>5</b>	<b>CSE</b>	<b>-</b>
<b>Peak Avg.</b>	 <p>Site : TH05-HH-Y          Condition : PEAK(UMI) ANT 6A IN+7.73 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz</p>	<b>Left blank</b>



Emission below 1GHz

5GHz WIFI 802.11ax HE20 Partial 26 (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11ax HE20 Partial 26	
5	CSE	
QP / Peak	<p>Site : TH05-HY Condition : FCC CLASS-B_CON ANT 64IN-7.73 HORIZONTAL : RBW:1200000Hz VBW:300.000kHz</p>	Left blank



### Appendix D. Cabinet Radiated Spurious Emission

Test Engineer :	Leo Li and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

UNII 3 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 149 5745MHz		5642	48.27	-19.93	68.2	41.65	33	10.43	36.81	100	67	P	H	
		5686.6	48.79	-46.53	95.32	42.08	33.07	10.48	36.84	100	67	P	H	
		5719.8	47.92	-62.82	110.74	41.06	33.22	10.51	36.87	100	67	P	H	
		5725	51.57	-70.63	122.2	44.67	33.25	10.52	36.87	100	67	P	H	
	*	5745	97.52	-	-	90.5	33.37	10.54	36.89	100	67	P	H	
	*	5745	90.38	-	-	83.36	33.37	10.54	36.89	100	67	A	H	
														H
														H
			5629.4	48.39	-19.81	68.2	41.78	33	10.41	36.8	303	360	P	V
			5677.8	47.81	-41	88.81	41.12	33.06	10.47	36.84	303	360	P	V
			5709.8	47.39	-60.56	107.95	40.59	33.16	10.5	36.86	303	360	P	V
			5724.6	50.2	-71.09	121.29	43.3	33.25	10.52	36.87	303	360	P	V
	*	5745	93.03	-	-	86.01	33.37	10.54	36.89	303	360	P	V	
	*	5745	85.75	-	-	78.73	33.37	10.54	36.89	303	360	A	V	
													V	
													V	



WIFI Ant. 5+4	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		5610.8	48.07	-20.13	68.2	41.47	33	10.39	36.79	100	67	P	H	
		5672.8	47.95	-37.16	85.11	41.27	33.05	10.46	36.83	100	67	P	H	
		5717.8	48.43	-61.75	110.18	41.58	33.21	10.51	36.87	100	67	P	H	
		5722.4	47.99	-68.28	116.27	41.12	33.23	10.51	36.87	100	67	P	H	
	*	5785	98.28	-	-	91.01	33.61	10.58	36.92	100	67	P	H	
	*	5785	91.13	-	-	83.86	33.61	10.58	36.92	100	67	A	H	
		5852.83	48.85	-66.9	115.75	41.26	33.91	10.64	36.96	100	67	P	H	
		5855.29	49.02	-61.7	110.72	41.44	33.91	10.64	36.97	100	67	P	H	
		5903.055	49.88	-34.52	84.4	42.21	34	10.67	37	100	67	P	H	
		5937.29	49.88	-18.32	68.2	42.2	34	10.7	37.02	100	67	P	H	
														H
														H
			5614.2	48.87	-19.33	68.2	42.26	33	10.4	36.79	314	360	P	V
			5698.6	48.59	-55.58	104.17	41.85	33.1	10.49	36.85	314	360	P	V
			5708.2	48.32	-59.18	107.5	41.53	33.15	10.5	36.86	314	360	P	V
			5723.6	47.96	-71.05	119.01	41.07	33.24	10.52	36.87	314	360	P	V
	*		5785	94.13	-	-	86.86	33.61	10.58	36.92	314	360	P	V
	*		5785	86.84	-	-	79.57	33.61	10.58	36.92	314	360	A	V
			5853.035	48.7	-66.58	115.28	41.11	33.91	10.64	36.96	314	360	P	V
			5867.18	48.68	-58.71	107.39	41.07	33.93	10.65	36.97	314	360	P	V
		5890.55	49.5	-44.16	93.66	41.85	33.98	10.66	36.99	314	360	P	V	
		5936.47	49.29	-18.91	68.2	41.61	34	10.7	37.02	314	360	P	V	
													V	
													V	



WiFi Ant. 5+4	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	96.75	-	-	89.27	33.8	10.62	36.94	100	67	P	H	
	*	5825	91.52	-	-	84.04	33.8	10.62	36.94	100	67	A	H	
		5851.2	52.57	-66.89	119.46	44.99	33.9	10.64	36.96	100	67	P	H	
		5856.2	49.7	-60.76	110.46	42.12	33.91	10.64	36.97	100	67	P	H	
		5917.6	50.24	-23.42	73.66	42.57	34	10.68	37.01	100	67	P	H	
		5944.4	49.75	-18.45	68.2	42.08	34	10.7	37.03	100	67	P	H	
														H
														H
	*	5825	93.43	-	-	85.95	33.8	10.62	36.94	311	99	99	P	V
	*	5825	85.77	-	-	78.29	33.8	10.62	36.94	311	99	99	A	V
		5851	48.56	-71.36	119.92	40.98	33.9	10.64	36.96	311	99	99	P	V
		5857.4	49.23	-60.9	110.13	41.65	33.91	10.64	36.97	311	99	99	P	V
		5905.4	49.97	-32.7	82.67	42.3	34	10.67	37	311	99	99	P	V
		5925.6	49.55	-18.65	68.2	41.88	34	10.69	37.02	311	99	99	P	V
														V
														V
													V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**UNII 3 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 5+4	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)
		11490	46.21	-27.79	74	53.02	38.83	15.12	60.76	-	-	P	H
		12544	47.78	-26.22	74	55.12	38.74	15.6	61.68	-	-	P	H
		12544	38.99	-15.01	54	46.33	38.74	15.6	61.68	-	-	A	H
		14480	47.17	-26.83	74	53.65	40.52	16.47	63.47	-	-	P	H
		14480	38.38	-15.62	54	44.86	40.52	16.47	63.47	-	-	A	H
		17235	44.93	-23.27	68.2	46.95	37.97	18.3	58.29	-	-	P	H
		17989	52	-22	74	47.25	43	18.93	57.18	-	-	P	H
		17989	43.21	-10.79	54	38.46	43	18.93	57.18	-	-	A	H
													H
													H
													H
													H
<b>802.11a</b>													
<b>CH 149</b>													
<b>5745MHz</b>		11490	45.08	-28.92	74	51.89	38.83	15.12	60.76	-	-	P	V
		12544	47.2	-26.8	74	54.54	38.74	15.6	61.68	-	-	P	V
		12544	38.41	-15.59	54	45.75	38.74	15.6	61.68	-	-	A	V
		14491	48.33	-25.67	74	54.82	40.51	16.48	63.48	-	-	P	V
		14491	39.54	-14.46	54	46.03	40.51	16.48	63.48	-	-	A	V
		17235	45.28	-22.92	68.2	47.3	37.97	18.3	58.29	-	-	P	V
		18000	51.73	-22.27	74	46.86	43.1	18.94	57.17	-	-	P	V
		18000	42.94	-11.06	54	38.07	43.1	18.94	57.17	-	-	A	V
													V
													V
													V
													V



WIFI Ant. 5+4	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	45.47	-28.53	74	52.48	38.66	15.16	60.83	-	-	P	H	
		12588	47.62	-26.38	74	54.88	38.79	15.62	61.67	-	-	P	H	
		12588	38.83	-15.17	54	46.09	38.79	15.62	61.67	-	-	A	H	
		14491	47.57	-26.43	74	54.06	40.51	16.48	63.48	-	-	P	H	
		14491	38.78	-15.22	54	45.27	40.51	16.48	63.48	-	-	A	H	
		17355	46.64	-21.56	68.2	48.06	38.26	18.4	58.08	-	-	P	H	
		18000	52.23	-21.77	74	47.36	43.1	18.94	57.17	-	-	P	H	
		18000	43.44	-10.56	54	38.57	43.1	18.94	57.17	-	-	A	H	
														H
														H
														H
														H
			11570	45.61	-28.39	74	52.62	38.66	15.16	60.83	-	-	P	V
			12577	48.15	-25.85	74	55.42	38.78	15.63	61.68	-	-	P	V
			12577	39.36	-14.64	54	46.63	38.78	15.63	61.68	-	-	A	V
			14491	47.68	-26.32	74	54.17	40.51	16.48	63.48	-	-	P	V
			14491	38.89	-15.11	54	45.38	40.51	16.48	63.48	-	-	A	V
			17355	47.06	-21.14	68.2	48.48	38.26	18.4	58.08	-	-	P	V
			17989	52.74	-21.26	74	47.99	43	18.93	57.18	-	-	P	V
			17989	43.95	-10.05	54	39.2	43	18.93	57.18	-	-	A	V
													V	
													V	
													V	
													V	



WIFI Ant. 5+4	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	45.29	-28.71	74	52.47	38.55	15.2	60.93	-	-	P	H	
		12500	48.55	-25.45	74	55.94	38.7	15.59	61.68	-	-	P	H	
		12500	39.76	-14.24	54	47.15	38.7	15.59	61.68	-	-	A	H	
		14480	47.59	-26.41	74	54.07	40.52	16.47	63.47	-	-	P	H	
		14480	38.8	-15.2	54	45.28	40.52	16.47	63.47	-	-	A	H	
		17475	46.61	-21.59	68.2	47.52	38.47	18.5	57.88	-	-	P	H	
		18000	53.27	-20.73	74	48.4	43.1	18.94	57.17	-	-	P	H	
		18000	44.48	-9.52	54	39.61	43.1	18.94	57.17	-	-	A	H	
														H
														H
														H
														H
			11650	45.31	-28.69	74	52.49	38.55	15.2	60.93	-	-	P	V
			12643	47.63	-26.37	74	54.76	38.89	15.65	61.67	-	-	P	V
			12643	38.84	-15.16	54	45.97	38.89	15.65	61.67	-	-	A	V
			14491	47.05	-26.95	74	53.54	40.51	16.48	63.48	-	-	P	V
			14491	38.26	-15.74	54	44.75	40.51	16.48	63.48	-	-	A	V
			17475	46.16	-22.04	68.2	47.07	38.47	18.5	57.88	-	-	P	V
			17989	52.38	-21.62	74	47.63	43	18.93	57.18	-	-	P	V
			17989	43.59	-10.41	54	38.84	43	18.93	57.18	-	-	A	V
													V	
													V	
													V	
													V	
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> <li>The emission level close to 18GHz is checked that the average emission level is noise floor only.</li> </ol>													





UNII 3 5725~5850MHz  
WIFI 802.11ax HE20\_Full (Harmonic @ 3m)

WIFI Ant. 5+4	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 )
		11570	46.2	-27.8	74	53.21	38.66	15.16	60.83	-	-	P	H
		12500	47.95	-26.05	74	55.34	38.7	15.59	61.68	-	-	P	H
		12500	39.16	-14.84	54	46.55	38.7	15.59	61.68	-	-	A	H
		14480	47.31	-26.69	74	53.79	40.52	16.47	63.47	-	-	P	H
		14480	38.52	-15.48	54	45	40.52	16.47	63.47	-	-	A	H
		17355	46.92	-21.28	68.2	48.34	38.26	18.4	58.08	-	-	P	H
		18000	52.16	-21.84	74	47.29	43.1	18.94	57.17	-	-	P	H
		18000	43.37	-10.63	54	38.5	43.1	18.94	57.17	-	-	A	H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 157													H
5785MHz		11570	45.24	-28.76	74	52.25	38.66	15.16	60.83	-	-	P	V
		11785	48.17	-25.83	74	55.57	38.42	15.27	61.09	-	-	P	V
		11785	39.38	-14.62	54	46.78	38.42	15.27	61.09	-	-	A	V
		14491	48.16	-25.84	74	54.65	40.51	16.48	63.48	-	-	P	V
		14491	39.37	-14.63	54	45.86	40.51	16.48	63.48	-	-	A	V
		17355	46.83	-21.37	68.2	48.25	38.26	18.4	58.08	-	-	P	V
		17989	52.25	-21.75	74	47.5	43	18.93	57.18	-	-	P	V
		17989	43.46	-10.54	54	38.71	43	18.93	57.18	-	-	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**UNII 3 5725~5850MHz**  
**WIFI 802.11ax HE40\_Full (Harmonic @ 3m)**

WIFI Ant. 5+4	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 )
		11590	46.13	-27.87	74	53.2	38.62	15.17	60.86	-	-	P	H
		12500	47.45	-26.55	74	54.84	38.7	15.59	61.68	-	-	P	H
		12500	38.66	-15.34	54	46.05	38.7	15.59	61.68	-	-	A	H
		14480	49.1	-24.9	74	55.58	40.52	16.47	63.47	-	-	P	H
		14480	40.31	-13.69	54	46.79	40.52	16.47	63.47	-	-	A	H
		17385	46.88	-21.32	68.2	48.14	38.35	18.42	58.03	-	-	P	H
		18000	52.29	-21.71	74	47.42	43.1	18.94	57.17	-	-	P	H
		18000	43.5	-10.5	54	38.63	43.1	18.94	57.17	-	-	A	H
													H
													H
													H
													H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 159</b>													
<b>5795MHz</b>		11590	45.87	-28.13	74	52.94	38.62	15.17	60.86	-	-	P	V
		12621	47.64	-26.36	74	54.83	38.84	15.64	61.67	-	-	P	V
		12621	38.85	-15.15	54	46.04	38.84	15.64	61.67	-	-	A	V
		14480	48.52	-25.48	74	55	40.52	16.47	63.47	-	-	P	V
		14480	39.73	-14.27	54	46.21	40.52	16.47	63.47	-	-	A	V
		17385	46.35	-21.85	68.2	47.61	38.35	18.42	58.03	-	-	P	V
		18000	51.89	-22.11	74	47.02	43.1	18.94	57.17	-	-	P	V
		18000	43.1	-10.9	54	38.23	43.1	18.94	57.17	-	-	A	V
													V
													V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





Emission above 18GHz

5GHz WIFI 802.11a (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
5+4		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11a SHF		25792	42.72	-31.28	74	59.93	38.87	-2.82	53.26	-	-	P	H	
		39958	46.44	-27.56	74	57.78	44.5	-0.09	55.75	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			24736	43.63	-30.37	74	59.9	39.01	-2.17	53.11	-	-	P	V
			38992	46.41	-27.59	74	60.16	43.39	-0.54	56.6	-	-	P	V
														V
														V
														V
														V
														V
													V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
5+4		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	(dBμV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)	
802.11a LF		30.97	33.75	-6.25	40	41.6	24.01	0.63	32.48	-	-	P	H	
		52.31	33.77	-6.23	40	52.3	13.11	0.98	32.57	-	-	P	H	
		62.98	32.75	-7.25	40	52.47	11.76	1.13	32.54	-	-	P	H	
		85.29	28.44	-11.56	40	45.77	13.9	1.3	32.47	-	-	P	H	
		159.98	22.78	-20.72	43.5	36.99	16.42	2	32.45	-	-	P	H	
		709.97	30.92	-15.08	46	33.32	26.39	3.71	32.38	-	-	P	H	
														H
														H
														H
														H
														H
														H
			30	25.78	-14.22	40	33.34	24.3	0.62	32.47	-	-	P	V
			92.08	19.58	-23.92	43.5	35.98	14.79	1.32	32.46	-	-	P	V
			197.81	20.93	-22.57	43.5	36.77	14.73	2.04	32.5	-	-	P	V
			272.5	22.97	-23.03	46	34.29	18.81	2.46	32.43	-	-	P	V
			704.15	32.26	-13.74	46	34.75	26.32	3.7	32.39	-	-	P	V
			930.16	33.13	-12.87	46	30.81	29.45	4.42	31.34	-	-	P	V
													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 with sufficient margin against limit line or 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>over limit</b> line.
P/A	<b>Peak</b> or <b>Average</b>
H/V	<b>Horizontal</b> or <b>Vertical</b>



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+4		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a		12544	47.78	-26.22	74	55.12	38.74	15.6	61.68	-	-	P	H
CH 149		12544	38.99	-15.01	54	46.33	38.74	15.6	61.68	-	-	A	H
5745MHz													

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

**For Peak Limit @ 12544MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 38.74(dB/m) + 15.6(dB) + 55.12 (dBμV) – 61.68 (dB)  
= 47.78 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 47.78(dBμV/m) – 74(dBμV/m)  
= -26.22(dB)

**For Average Limit @ 12544MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 38.74(dB/m) + 15.6(dB) + 46.33(dBμV) – 61.68 (dB)  
= 38.99 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)  
= 38.99(dBμV/m) – 54(dBμV/m)  
= -15.01(dB)

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



## Appendix E. Cabinet Radiated Spurious Emission Plots

Test Engineer :	Leo Li and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

### Note symbol

-L	Low channel location
-R	High channel location





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

Table with 2 columns: Horizontal and Fundamental. Row 1: WIFI UNII 3 5725~5850MHz Band Edge @ 3m. Row 2: ANT 802.11a CH149 5745MHz. Row 3: 5+4. Row 4: Peak. Each plot shows Level (dBuV/m) vs Frequency (MHz) with various annotations like PEAK, AVG, and site/condition details.

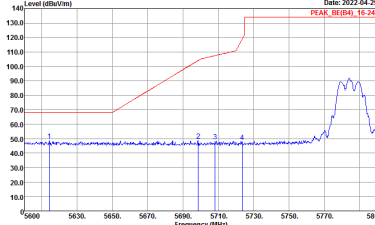
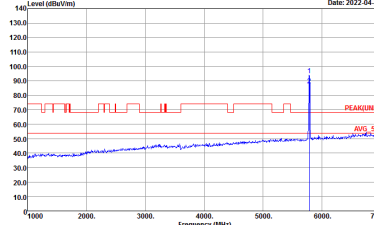
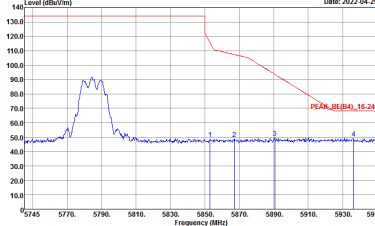


WIFI	UNII 3 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
5+4	Vertical	Fundamental
Peak		



WIFI	UNII 3 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+4	Horizontal	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH15-HY Condition : PEAK(FUNTI) 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	UNII 3 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+4	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH15-HY Condition : PEAK(LIN1) 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	UNII 3 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
5+4	Horizontal	Fundamental
Peak	<p>Site : 03CH1E-14Y Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH1E-14Y Condition : PEAK(LINI) 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	UNII 3 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
5+4	Vertical	Fundamental
Peak	<p>Site : 03CH1E-14Y Condition : PEAK_8E(B4)_16-24 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH1E-14Y Condition : PEAK(LINI) 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



UNII 3 - 5725~5850MHz  
WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>





WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-14Y Condition : PEAK(UNII) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-14Y Condition : PEAK(UNII) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



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

WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 90120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 90120_02038_20210804 VERTICAL Detector : Peak</p>



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

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH159 5795MHz</b>	
<b>5+4</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



UNII 3 5725~5850MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Rows include WIFI (UNII 3 5725~5850MHz Harmonic @ 3m), ANT (802.11ax HE80 Full CH155 5775MHz), 5+4, and measurement results for Peak and Avg. with associated graphs and site information.



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

WIFI	5GHz WIFI	
ANT	802.11a SHF	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CHI5-HY Condition : PEAK_74 1m SHF ANT_9170_00993 HORIZONTAL Detector : Peak</p>	<p>Site : 03CHI5-HY Condition : PEAK_74 1m SHF ANT_9170_00993 VERTICAL Detector : Peak</p>



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

WIFI	5GHz WIFI	
ANT	802.11a LF	
5+4	Horizontal	Vertical
QP / Peak	<p>Site : 03CH15-HV Condition : QP 3m 81LOG_41912_20220206 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HV Condition : QP 3m 81LOG_41912_20220206 VERTICAL Detector : Peak</p>



## Appendix F. Radiated Spurious Emission

Test Engineer :	Leo Li and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

<Antenna A>

UNII 3 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 149 5745MHz		7660	49.34	-24.66	74	59.6	36.02	11.51	57.79	100	126	P	H	
		7660	42.74	-11.26	54	53	36.02	11.51	57.79	100	126	A	H	
													H	
													H	
			7660	52.72	-21.28	74	62.98	36.02	11.51	57.79	293	161	P	V
			7660	48.77	-5.23	54	59.03	36.02	11.51	57.79	293	161	A	V
														V
														V
802.11a CH 157 5785MHz		7715	43.55	-30.45	74	53.65	36.13	11.51	57.74	-	-	P	H	
													H	
													H	
													H	
			7715	45.09	-28.91	74	55.19	36.13	11.51	57.74	-	-	P	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.													



UNII 3 5725~5850MHz  
WIFI 802.11ax HE20\_Full (Harmonic @ 3m)

WIFI Ant. 5+4	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		7660	45.87	-28.13	74	56.13	36.02	11.51	57.79	-	-	P	H
													H
													H
													H
5745MHz		7660	53.55	-20.45	74	63.81	36.02	11.51	57.79	385	129	P	V
		7660	50.47	-3.53	54	60.73	36.02	11.51	57.79	385	129	A	V
													V
802.11ax HE20 Full CH 157		7715	44.05	-29.95	74	54.15	36.13	11.51	57.74	-	-	P	H
													H
													H
													H
5785MHz		7715	47.61	-26.39	74	57.71	36.13	11.51	57.74	-	-	P	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.												





UNII 3 5725~5850MHz  
WIFI 802.11ax HE20\_Partial 26 (Harmonic @ 3m)

WIFI Ant. 5+4	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 26/0 CH 149 5745MHz		7660	44.44	-29.56	74	54.7	36.02	11.51	57.79	-	-	P	H	
													H	
													H	
													H	
													V	
													V	
802.11ax HE20 Partial 26/4 CH 157 5785MHz		7713	43.59	-30.41	74	53.69	36.13	11.51	57.74	-	-	P	H	
													H	
													H	
													H	
			7713	51.95	-22.05	74	62.05	36.13	11.51	57.74	277	186	P	V
			7713	46.82	-7.18	54	56.92	36.13	11.51	57.74	277	186	A	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.													



**UNII 3 5725~5850MHz  
WIFI 802.11ax HE40\_Full (Harmonic @ 3m)**

WIFI Ant. 5+4	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		7726	45.67	-28.33	74	55.73	36.15	11.51	57.72	-	-	P	H
													H
													H
													H
CH 159 5795MHz		7726	53.27	-20.73	74	63.33	36.15	11.51	57.72	351	106	P	V
		7726	50.21	-3.79	54	60.27	36.15	11.51	57.72	351	106	A	V
													V
													V
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>												



**UNII 3 5725~5850MHz  
WIFI 802.11ax HE80\_Full (Harmonic @ 3m)**

WIFI Ant. 5+4	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		7700	44.39	-29.61	74	54.53	36.1	11.51	57.75	-	-	P	H
													H
													H
													H
CH 155 5775MHz		7700	53.17	-20.83	74	63.31	36.1	11.51	57.75	398	130	P	V
		7700	49.9	-4.1	54	60.04	36.1	11.51	57.75	398	130	A	V
													V
													V
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>												



<Antenna C>

UNII 3 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
5+4		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 149 5745MHz		7660	50.28	-23.72	74	60.54	36.02	11.51	57.79	286	154	P	H
		7660	45.08	-8.92	54	55.34	36.02	11.51	57.79	286	154	A	H
													H
													H
		7660	51.73	-22.27	74	61.99	36.02	11.51	57.79	298	52	P	V
		7660	48	-6	54	58.26	36.02	11.51	57.79	298	52	A	V
													V
802.11a CH 157 5785MHz		7713	49.01	-24.99	74	59.11	36.13	11.51	57.74	370	191	P	H
		7713	42.66	-11.34	54	52.76	36.13	11.51	57.74	370	191	A	H
													H
													H
		7713	51.09	-22.91	74	61.19	36.13	11.51	57.74	343	150	P	V
		7713	46.68	-7.32	54	56.78	36.13	11.51	57.74	343	150	A	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



**UNII 3 5725~5850MHz**  
**WIFI 802.11ax HE20\_Full (Harmonic @ 3m)**

WIFI Ant. 5+4	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		7660	51.33	-22.67	74	61.59	36.02	11.51	57.79	344	13	P	H	
		7660	46.97	-7.03	54	57.23	36.02	11.51	57.79	344	13	A	H	
													H	
													H	
			7660	53.81	-20.19	74	64.07	36.02	11.51	57.79	308	52	P	V
			7660	50.84	-3.16	54	61.1	36.02	11.51	57.79	308	52	A	V
														V
802.11ax HE20 Full CH 157 5785MHz		7715	50.11	-23.89	74	60.21	36.13	11.51	57.74	351	14	P	H	
		7715	44.33	-9.67	54	54.43	36.13	11.51	57.74	351	14	A	H	
													H	
													H	
			7715	52.15	-21.85	74	62.25	36.13	11.51	57.74	307	52	P	V
			7715	48.86	-5.14	54	58.96	36.13	11.51	57.74	307	52	A	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**UNII 3 5725~5850MHz**  
**WIFI 802.11ax HE20\_Partial 26 (Harmonic @ 3m)**

WIFI Ant. 5+4	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 26/0 CH 149 5745MHz		7660	44.08	-29.92	74	54.34	36.02	11.51	57.79	-	-	P	H	
													H	
													H	
													H	
			7660	54.05	-19.95	74	64.31	36.02	11.51	57.79	343	146	P	V
			7660	50.15	-3.85	54	60.41	36.02	11.51	57.79	343	146	A	V
802.11ax HE20 Partial 26/4 CH 157 5785MHz													V	
													V	
			7759	43.55	-24.65	68.2	53.48	36.25	11.51	57.69	-	-	P	H
														H
														H
			7715	46.19	-27.81	74	56.29	36.13	11.51	57.74	-	-	P	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.													



**UNII 3 5725~5850MHz  
WIFI 802.11ax HE40\_Full (Harmonic @ 3m)**

WIFI Ant. 5+4	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		7726	43.95	-30.05	74	54.01	36.15	11.51	57.72	-	-	P	H
													H
													H
													H
CH 159 5795MHz		7726	47.25	-26.75	74	57.31	36.15	11.51	57.72	-	-	P	V
													V
													V
Remark	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>												



**UNII 3 5725~5850MHz  
WIFI 802.11ax HE80\_Full (Harmonic @ 3m)**

WIFI Ant. 5+4	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		7704	45.01	-28.99	74	55.14	36.11	11.51	57.75	-	-	P	H
													H
													H
													H
		7704	47.52	-26.48	74	57.65	36.11	11.51	57.75	-	-	P	V
													V
													V
													V
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>												





**Note symbol**

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+4		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a		7660	50.28	-23.72	74	60.54	36.02	11.51	57.79	286	154	P	H
CH 149		7660	45.08	-8.92	54	55.34	36.02	11.51	57.79	286	154	A	H
5745MHz													

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

**For Peak Limit @ 7660MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 36.02(dB/m) + 11.51(dB) + 60.54(dBμV) – 57.79 (dB)  
= 50.28 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 50.28(dBμV/m) – 74(dBμV/m)  
= -23.72(dB)

**For Average Limit @ 7660MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 36.02(dB/m) + 11.51(dB) + 55.34(dBμV) – 57.79 (dB)  
= 45.08 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)  
= 45.08(dBμV/m) – 54(dBμV/m)  
= -8.92(dB)

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



## Appendix G. Radiated Spurious Emission Plots

Test Engineer :	Leo Li and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

<Antenna A>

UNII 3 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
5+4	Horizontal	Vertical
<p><b>Peak</b></p> <p><b>Avg.</b></p>	<p>Site : 03CH15-HY Condition : PEAK[UNII] 3m 90120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK[UNII] 3m 90120_02038_20210804 VERTICAL Detector : Peak</p>



WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-14Y Condition : PEAK(UNII) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-14Y Condition : PEAK(UNII) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



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

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH149 5745MHz</b>	
<b>5+4</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 90120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 90120_02038_20210804 VERTICAL Detector : Peak</p>



WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



UNII 3 5725~5850MHz
WIFI 802.11ax HE20 Partial 26 (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Rows include WIFI, ANT, 5+4, and Peak Avg. Each plot shows Level (dBu/1m) vs Frequency (MHz) with Peak and Avg lines.



WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Partial 26/4 CH157 5785MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>





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

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH159 5795MHz</b>	
<b>5+4</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 90120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 90120_02038_20210804 VERTICAL Detector : Peak</p>



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

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Full CH155 5775MHz</b>	
<b>5+4</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



<Antenna C>

UNII 3 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-HY Condition : PEAK(LINE1) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(LINE1) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



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

WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



WIFI	UNII 3 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+4	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>



UNII 3 5725~5850MHz
WIFI 802.11ax HE20 Partial 26 (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Rows include WIFI, ANT, 5+4, and Peak Avg. Each plot shows Level (dBu/1m) vs Frequency (MHz) with Peak and Avg lines.



<b>WIFI</b>	<b>UNII 3 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 26/4 CH157 5785MHz</b>	
<b>5+4</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-14Y Condition : PEAK(LINE) 3m 9D120_02038_20210804 VERTICAL Detector : Peak</p>





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

Table with 2 columns: Horizontal and Vertical. Rows include: WIFI (UNII 3 5725~5850MHz Harmonic @ 3m), ANT (802.11ax HE40 Full CH159 5795MHz), 5+4, and Peak Avg. Each plot shows Level (dBu/1m) vs Frequency (MHz) with Peak and Avg lines.



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

<b>WIFI</b>	<b>UNII 3 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Full CH155 5775MHz</b>	
<b>5+4</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 90120_02038_20210804 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH15-HY Condition : PEAK(UNII) 3m 90120_02038_20210804 VERTICAL Detector : Peak</p>



## Appendix H. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
5+4	5GHz 802.11a for Ant. 5	100.00	-	-	10Hz
5+4	5GHz 802.11a for Ant. 4	100.00	-	-	10Hz
5+4	5GHz 802.11ax HE20 Full RU for Ant. 5	100.00	-	-	10Hz
5+4	5GHz 802.11ax HE20 Full RU for Ant. 4	100.00	-	-	10Hz
5+4	5GHz 802.11ax HE40 Full RU for Ant. 5	100.00	-	-	10Hz
5+4	5GHz 802.11ax HE40 Full RU for Ant. 4	100.00	-	-	10Hz
5+4	5GHz 802.11ax HE80 Full RU for Ant. 5	100.00	-	-	10Hz
5+4	5GHz 802.11ax HE80 Full RU for Ant. 4	100.00	-	-	10Hz

### MIMO <Ant. 5>

