




FCC RADIO TEST REPORT

FCC ID : U8G-P1AX13
Equipment : Peplink Pepwave Wireless Product
Brand Name : 
Model Name : MAX HD1 Dome Pro
 MAX-HD1-DOM-PRO-5GH
 MAX HD2 Dome Pro
 MAX-HD2-DOM-PRO-LTEA-Q
Applicant : PISMO LABS TECHNOLOGY LIMITED
 A8, 5/F, HK Spinners Industrial Building, Phase 6,
 481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Manufacturer : PISMO LABS TECHNOLOGY LIMITED
 A8, 5/F, HK Spinners Industrial Building, Phase 6,
 481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jul. 05, 2022 and testing was performed from Jul. 11, 2022 to Apr. 11, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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.)



Table of Contents

History of this test report..... 3

Summary of Test Result..... 4

1 General Description 5

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

 1.2 Modification of EUT 7

 1.3 Testing Location 7

 1.4 Applicable Standards..... 7

2 Test Configuration of Equipment Under Test 8

 2.1 Carrier Frequency and Channel 8

 2.2 Test Mode 9

 2.3 Connection Diagram of Test System 10

 2.4 Support Unit used in test configuration and system 10

 2.5 EUT Operation Test Setup 11

 2.6 Measurement Results Explanation Example..... 11

3 Test Result 12

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

 3.2 Maximum Conducted Output Power Measurement 17

 3.3 Power Spectral Density Measurement 18

 3.4 Unwanted Emissions Measurement 22

 3.5 AC Conducted Emission Measurement..... 27

 3.6 Antenna Requirements 29

4 List of Measuring Equipment..... 30

5 Measurement Uncertainty 32

Appendix A. Conducted Test Results

Appendix B. AC Conducted Emission Test Result

Appendix C. Radiated Spurious Emission

Appendix D. Radiated Spurious Emission Plots

Appendix E. Duty Cycle Plots



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	0.97 dB under the limit at 211.710 MHz
3.5	15.207	AC Conducted Emission	Pass	7.72 dB under the limit at 23.129 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Lewis Ho**Report Producer: Doris Chen**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
<p>General Specs LTE/5G NR, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and GPS</p> <p>Antenna Type WWAN: Omni-directional Antenna WLAN: Omni-directional Antenna GPS: Directional Antenna</p> <p>Sample information Sample 1: MAX HD1 Dome Pro and MAX-HD1-DOM-PRO-5GH with WWAN Module 1 (EM9191) Sample 2: MAX HD2 Dome Pro and MAX-HD2-DOM-PRO-LTEA-Q with WWAN Module 2 (LN920A12-WW)</p>	
Integrated WWAN Module 1	<p>Brand Name: Sierra Model Name: EM9191 FCC ID: N7NEM91</p>
Integrated WWAN Module 2	<p>Brand Name: Telit Model Name: LN920A12-WW FCC ID: RI7LN920</p>

Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. 5: 4.70 Ant. 6: 4.40

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



1.1.1 Antenna Directional Gain

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

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

For power measurements on IEEE 802.11 devices,

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

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

For PSD measurements, the directional gain calculation.

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

where

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

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

N_{ANT} = the total number of antennas

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

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

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

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

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

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
Band IV	4.70	4.40	4.70	7.56	0.00	1.56

Calculation example:

If a device has two antenna, $G_{ANT1}= 4.7$ dBi; $G_{ANT2}=4.4$ dBi

Directional gain of power measurement = $\max(4.7, 4.4) + 0 = 4.7$ dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{(4.7 \text{ dBi} / 20)} + 10^{(4.4 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

= 7.56 dBi

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



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	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
Test Site No.	Sporton Site No. TH05-HY, 03CH16-HY

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

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

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

Remark:

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



2 Test Configuration of Equipment Under Test

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

- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

Note:

- 1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
- 2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.



2.2 Test Mode

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

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

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

MIMO Mode

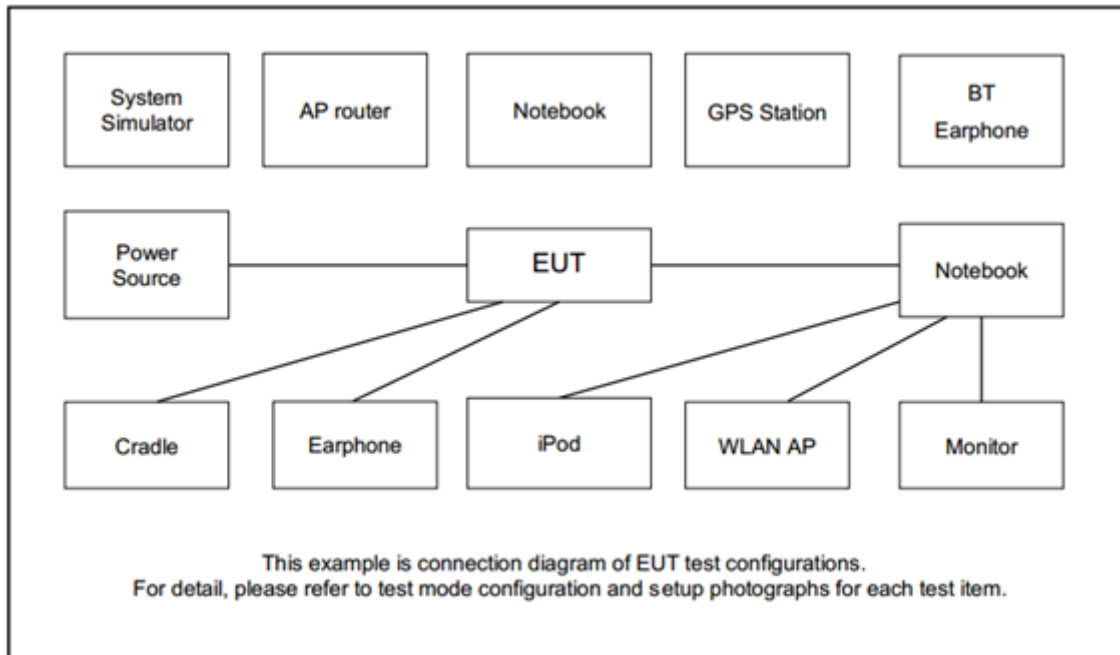
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + PoE Box + PoE Adapter for Sample 1 Mode 2 : WLAN (5GHz) Link + PoE Box + PoE Adapter for Sample 2
Remark:	
1. The worst case of Conducted Emission is mode 1; only the test data of it was reported.	
2. For Radiated Test Cases, the tests were performed with Sample 1.	

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Device	PEPWAVE	MAX BR1 Mini R6	N/A	N/A	N/A
3.	POE Adapter	Billion	BP035-560054QAX	FCC DoC	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version 5.0-00197” 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.

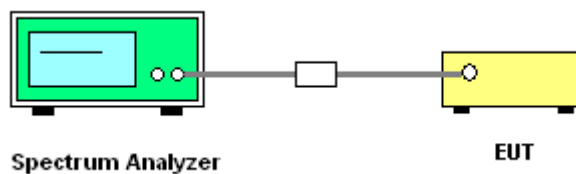
3.1.2 Measuring Instruments

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

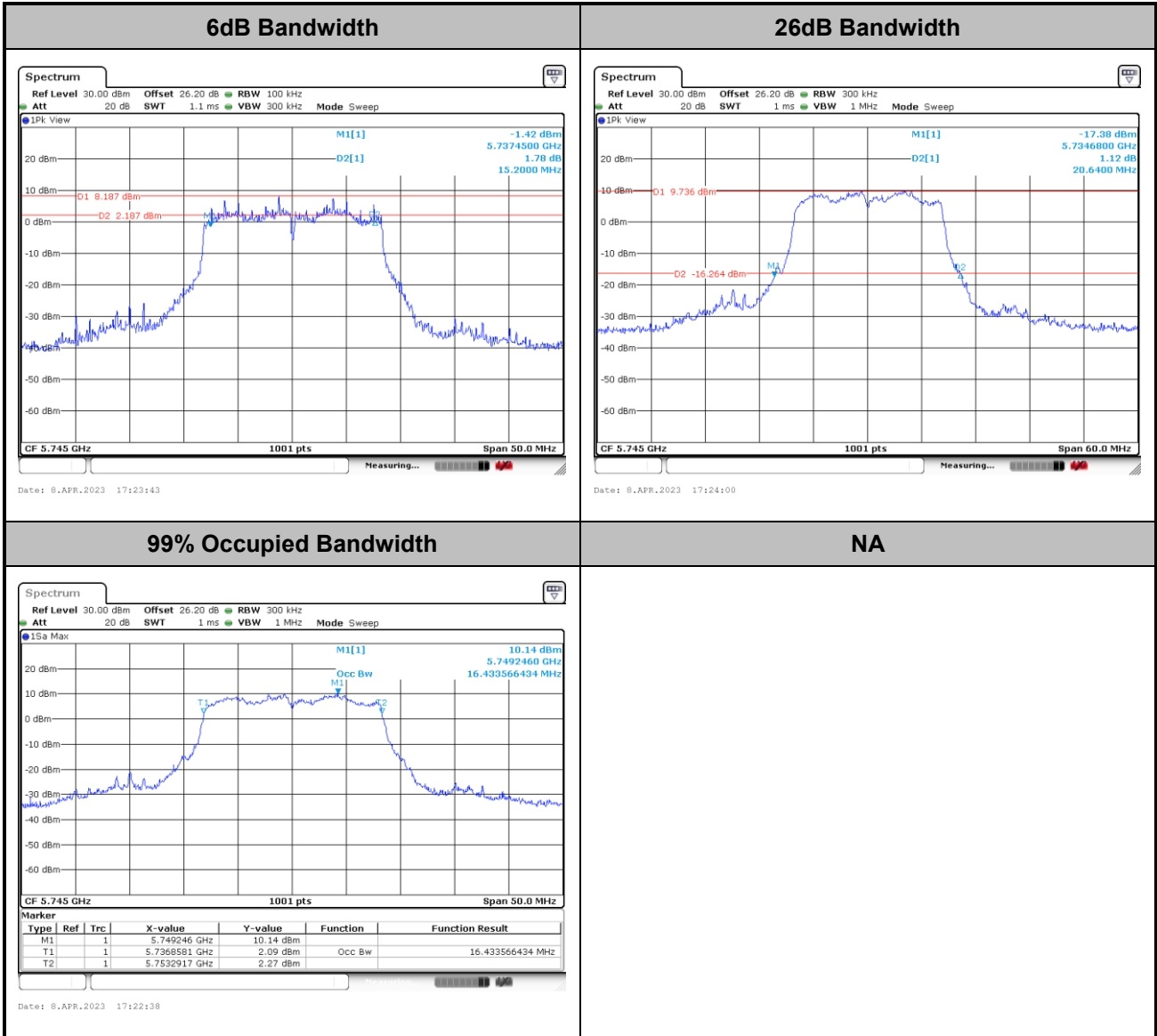


3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.



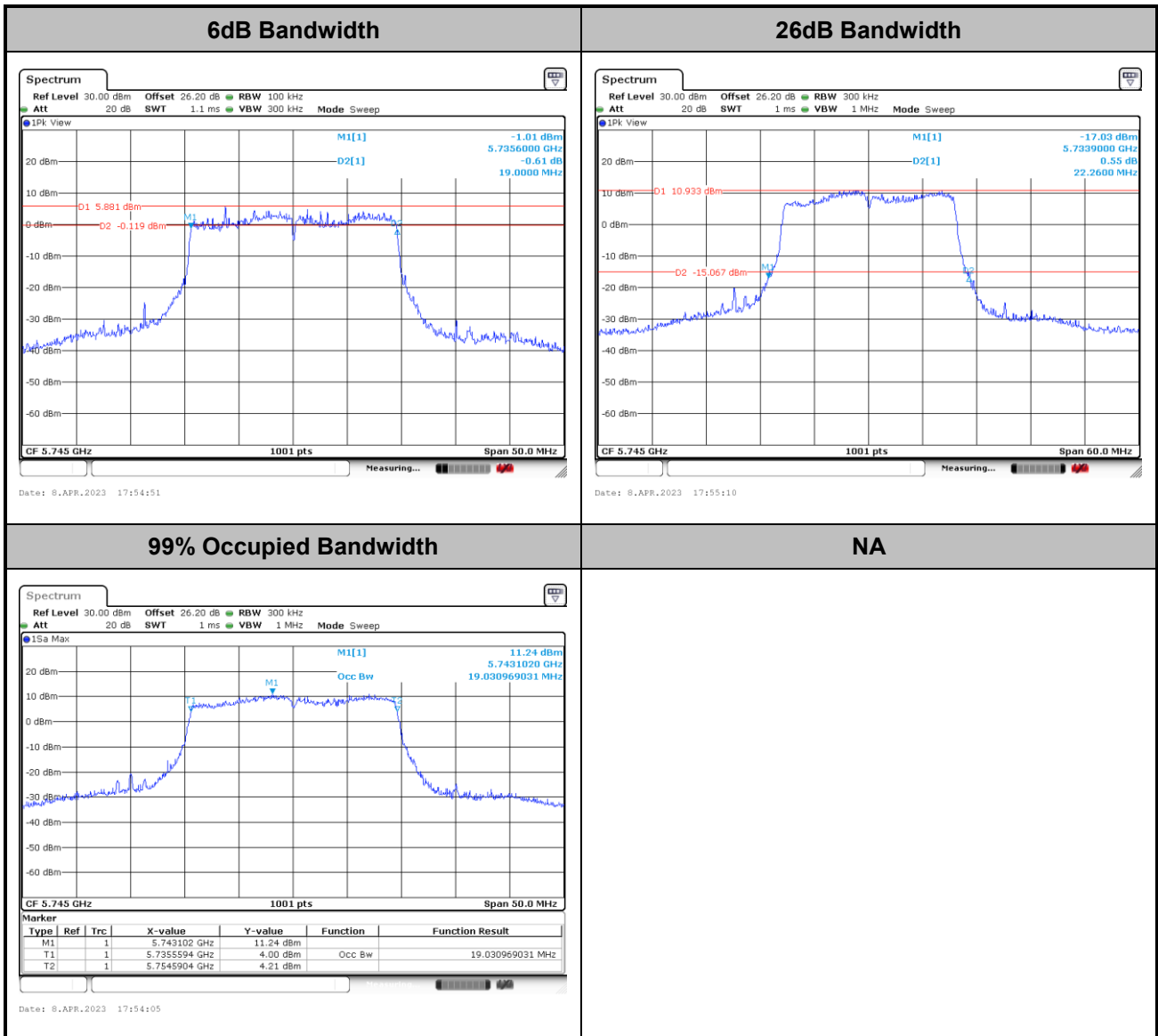
<802.11a>



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



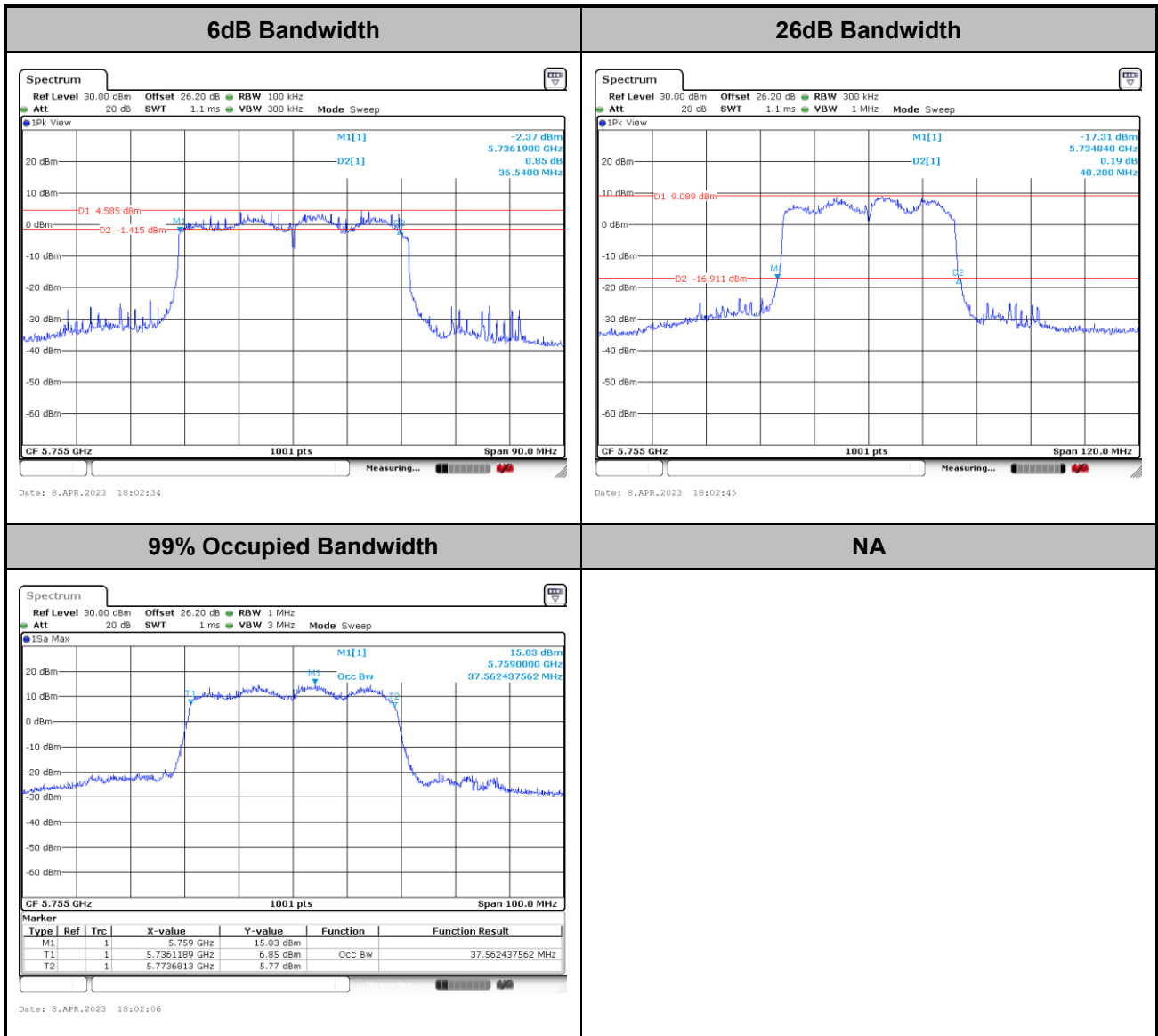
<802.11ax HE20>



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



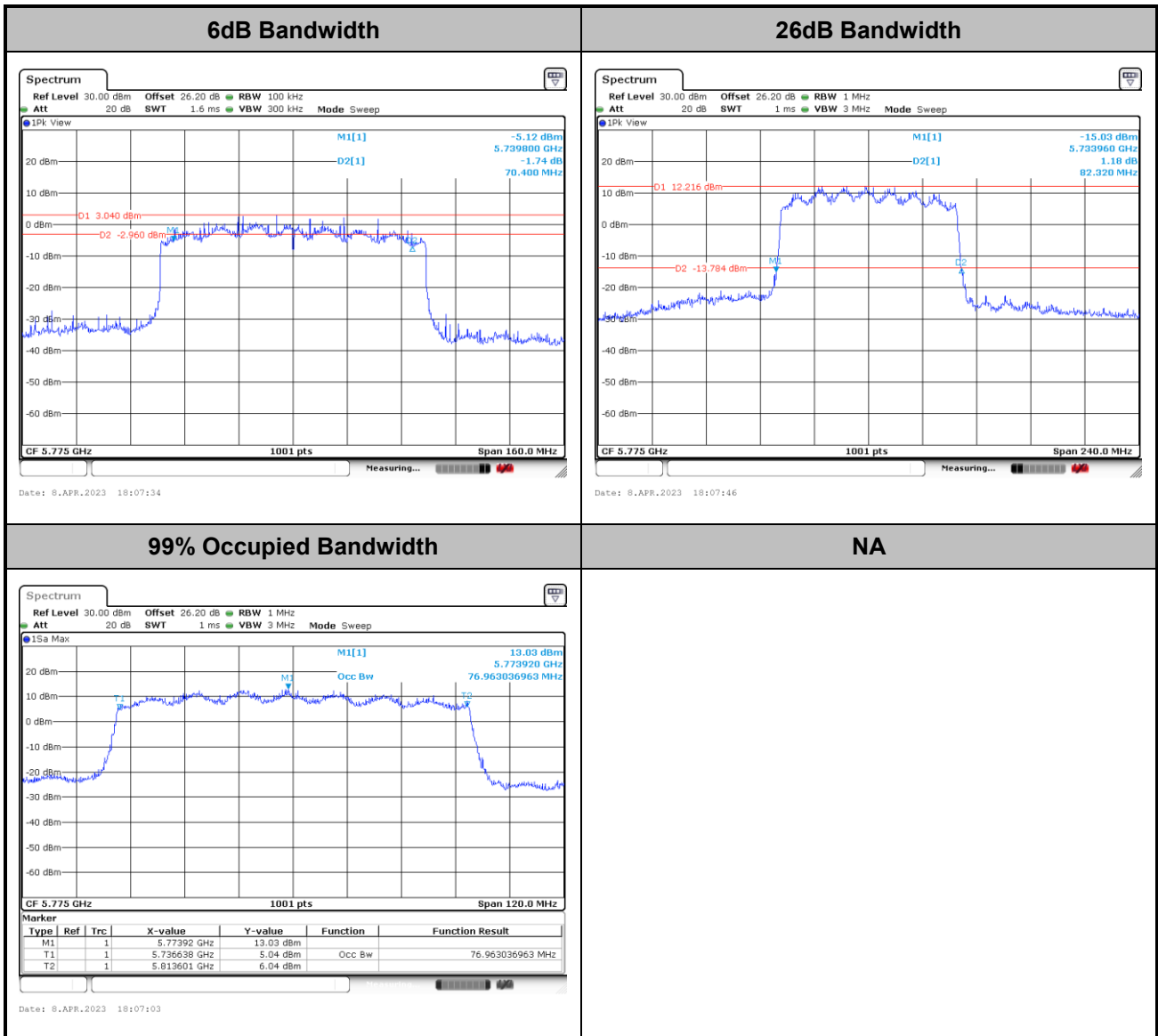
<802.11ax HE40>



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.

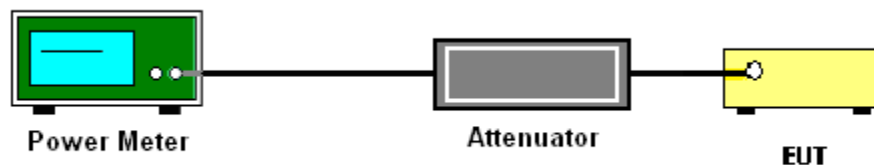
3.2.3 Test Procedures

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-3

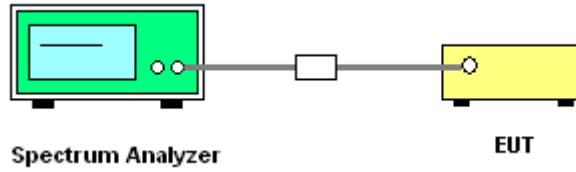
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW \geq 1 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Add $10 \log(500 \text{ kHz/RBW})$ to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - Sweep time \leq (number of points in sweep) \times T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT 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_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit.

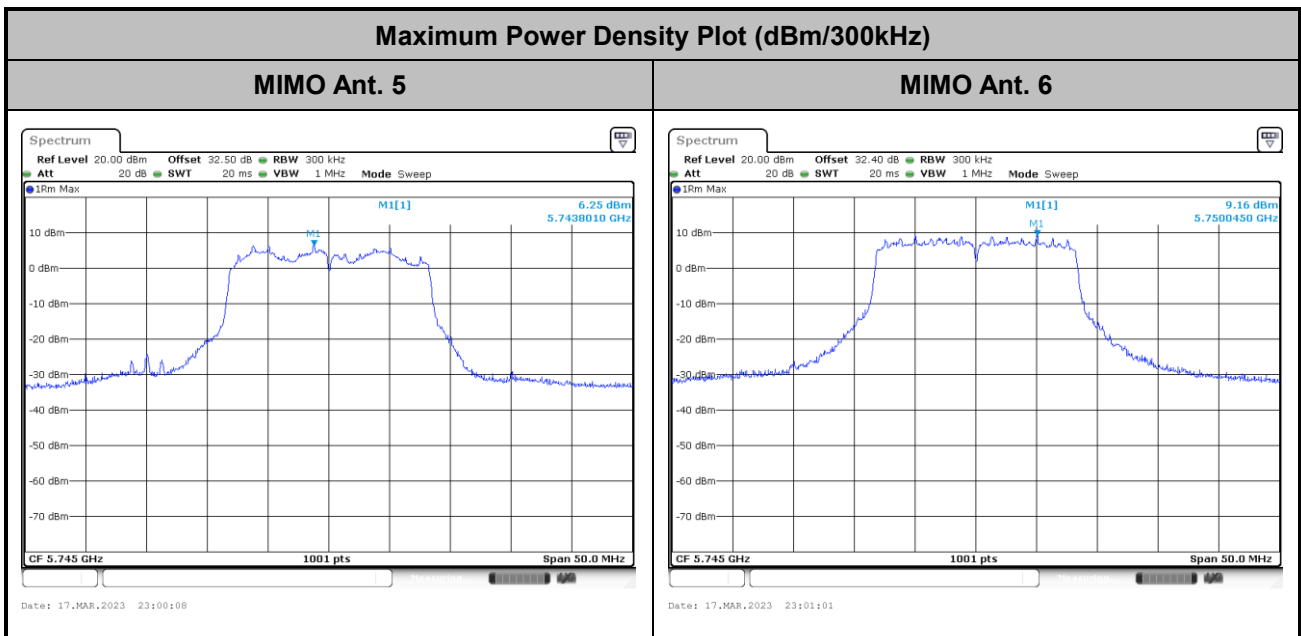
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

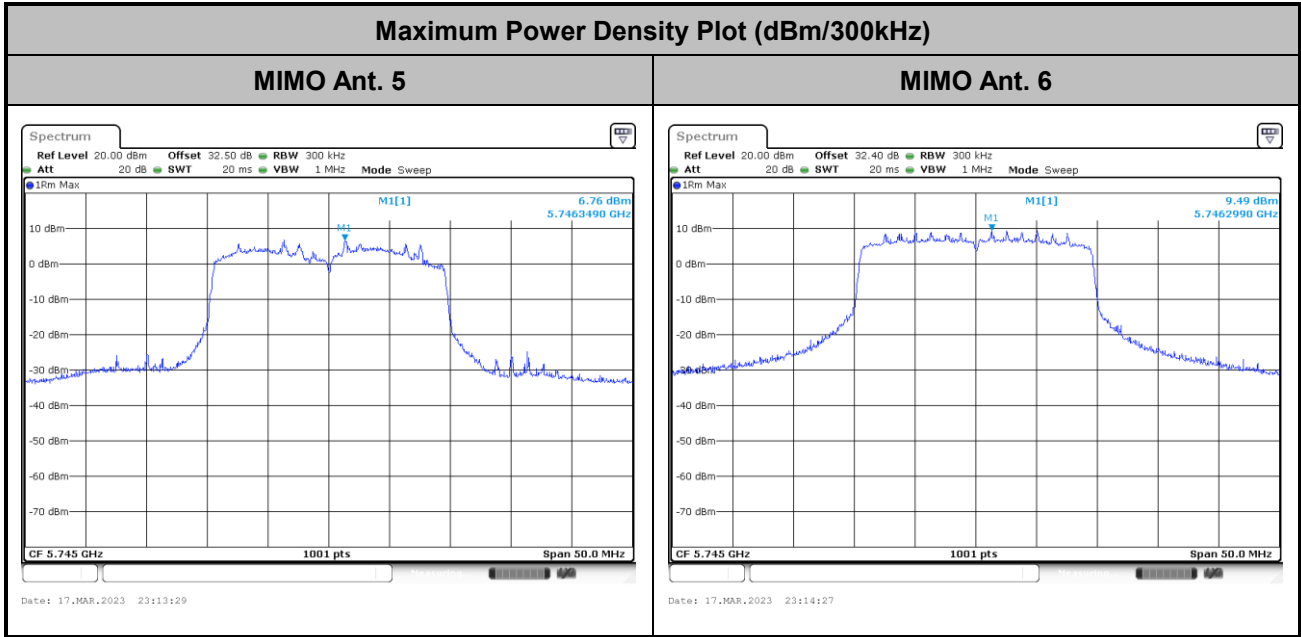
Please refer to Appendix A.

<802.11a>

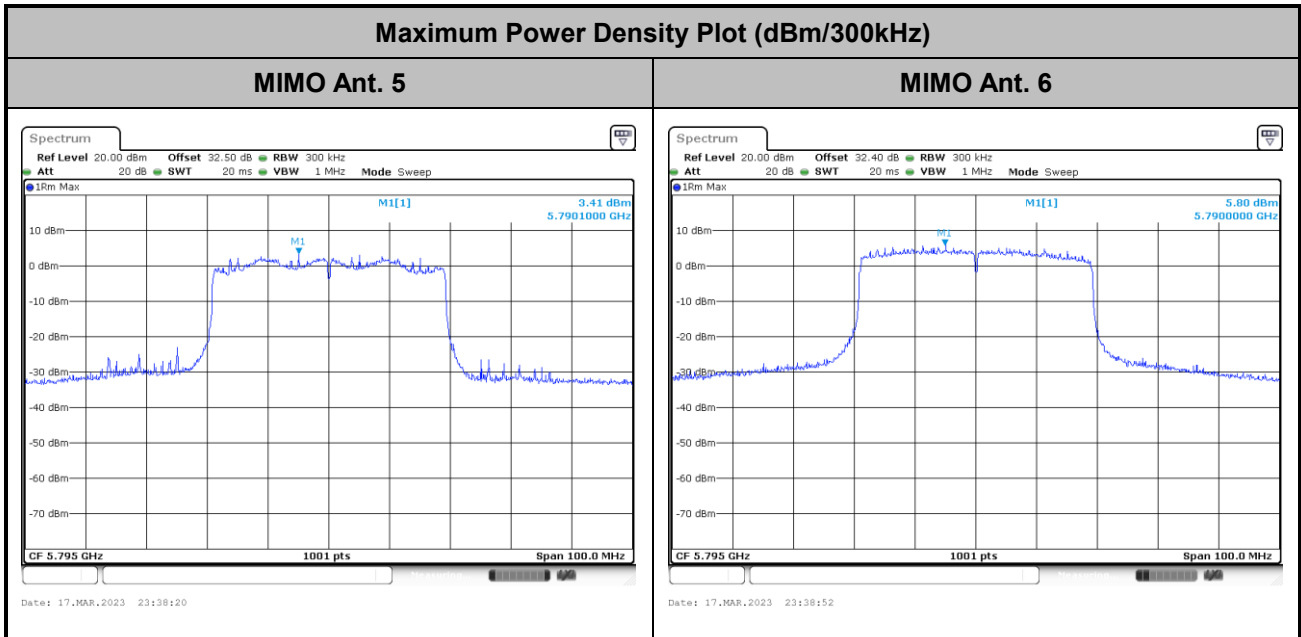




<802.11ax HE20>



<802.11ax HE40>



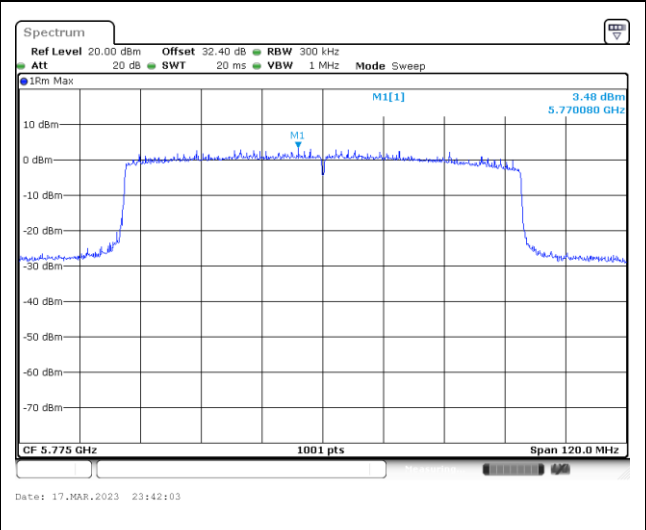
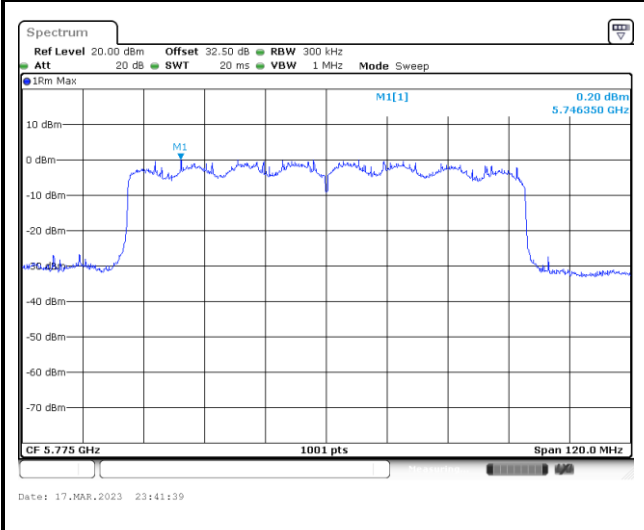


<802.11ax HE80>

Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 5

MIMO Ant. 6





3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

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



3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

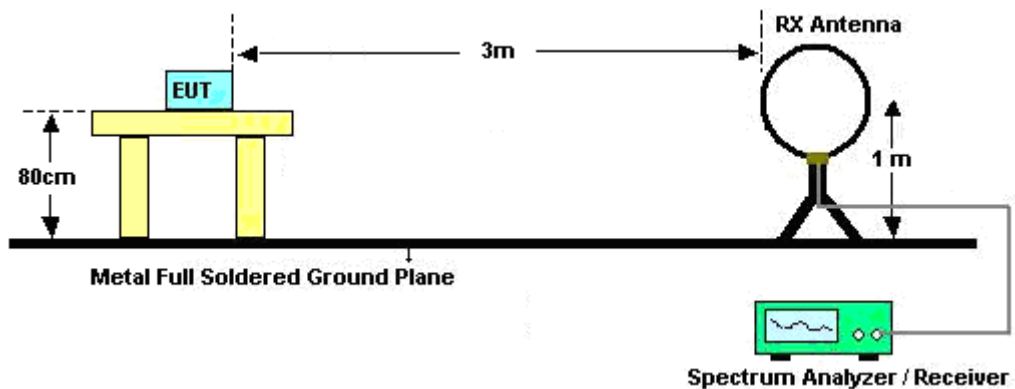
against QP limit line, the position is marked as “-”.

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

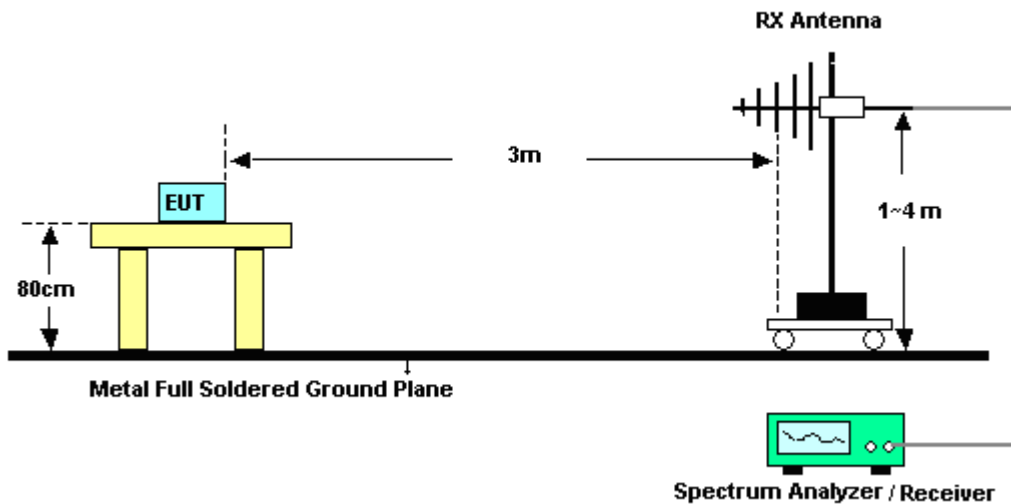
When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.4.4 Test Setup

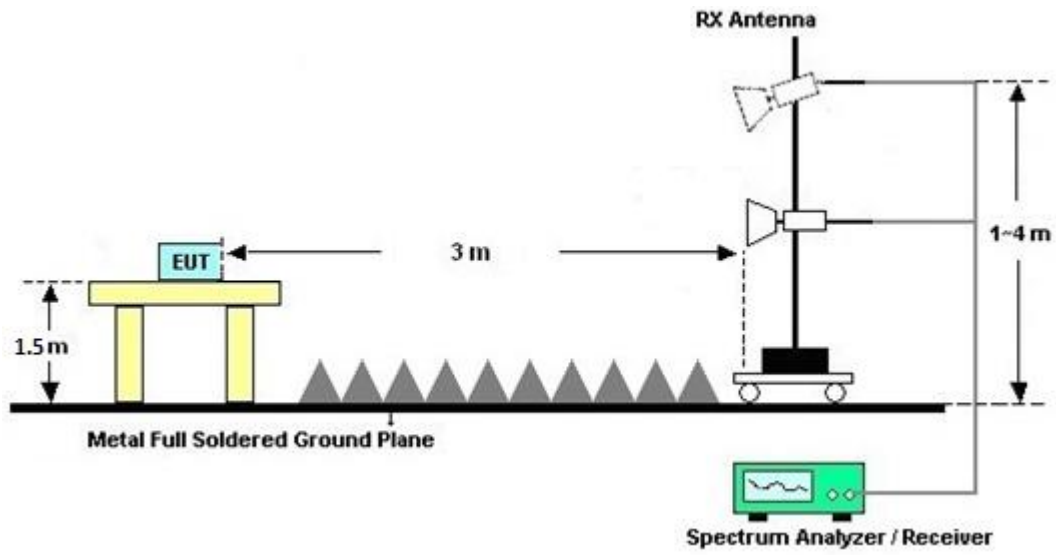
For radiated emissions below 30MHz



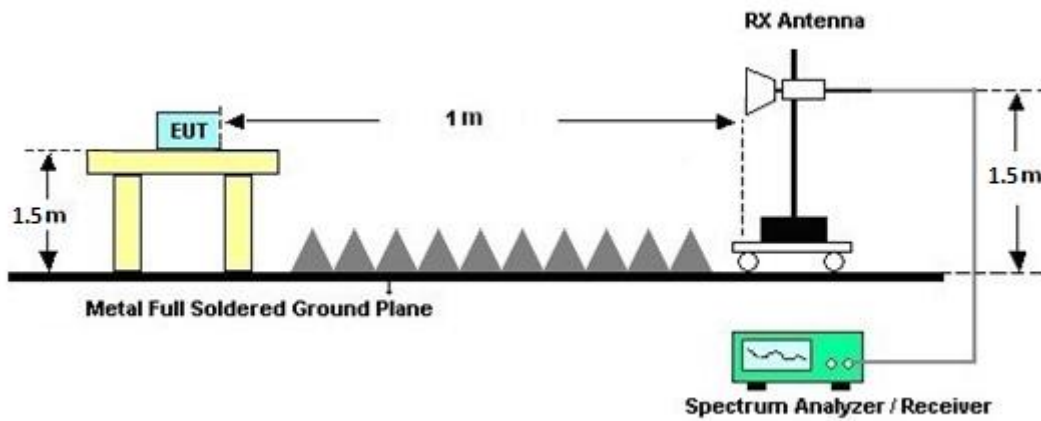
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 09, 2022	Mar. 09, 2023~ Apr. 11, 2023	Aug. 08, 2023	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	SCHWARZBECK	BBHA 9120 D	9120D-1522	Mar. 10, 2022	Mar. 07, 2023~ Mar. 08, 2023	Mar. 09, 2023	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	Mar. 07, 2023~ Apr. 11, 2023	Nov. 23, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 08, 2022	Mar. 07, 2023~ Apr. 11, 2023	Oct. 07, 2023	Radiation (03CH16-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Mar. 07, 2023~ Apr. 11, 2023	Sep. 19, 2023	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Mar. 07, 2023~ Apr. 11, 2023	Jun. 27, 2023	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 26, 2022	Mar. 07, 2023~ Apr. 11, 2023	Dec. 25, 2023	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2022	Mar. 07, 2023~ Apr. 11, 2023	Dec. 08, 2023	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 04, 2022	Mar. 07, 2023~ Apr. 11, 2023	Jul. 03, 2023	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 15, 2022	Mar. 07, 2023~ Apr. 11, 2023	Dec. 14, 2023	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	Mar. 07, 2023~ Apr. 11, 2023	Jan. 09, 2024	Radiation (03CH16 -HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	805935/4	N/A	Aug. 09, 2022	Mar. 07, 2023~ Apr. 11, 2023	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	802434/4	N/A	Aug. 09, 2022	Mar. 07, 2023~ Apr. 11, 2023	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5 757	N/A	Aug. 09, 2022	Mar. 07, 2023~ Apr. 11, 2023	Aug. 08, 2023	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Mar. 07, 2023~ Apr. 11, 2023	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Mar. 07, 2023~ Apr. 11, 2023	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 07, 2023~ Apr. 11, 2023	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 07, 2023~ Apr. 11, 2023	N/A	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Mar. 10, 2023~ Apr. 08, 2023	Nov. 16, 2023	Conducted (TH05-HY)
USB Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Jan. 05, 2023	Mar. 10, 2023~ Apr. 08, 2023	Jan. 04, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Sep. 01, 2022	Mar. 10, 2023~ Apr. 08, 2023	Aug. 31, 2023	Conducted (TH05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 11, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Jul. 11, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Jul. 11, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Jul. 11, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jul. 11, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2021	Jul. 11, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Jul. 11, 2022	Dec. 29, 2022	Conduction (CO05-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

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

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

Test Engineer:	Hank and Sylvia Li	Temperature:	21~25	°C
Test Date:	2023/3/10~2023/04/08	Relative Humidity:	51~54	%

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

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6		
11a	6Mbps	2	149	5745	16.43	16.43	20.64	20.94	15.20	16.15	0.5	Pass
11a	6Mbps	2	157	5785	16.33	16.38	20.82	20.34	14.50	16.40	0.5	Pass
11a	6Mbps	2	165	5825	16.53	16.43	20.10	20.10	16.00	16.15	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6	
11a	6Mbps	2	149	5745	18.80	22.20	23.83	30.00		4.70	Pass	
11a	6Mbps	2	157	5785	18.50	22.10	23.67	30.00		4.70	Pass	
11a	6Mbps	2	165	5825	18.90	21.80	23.60	30.00		4.70	Pass	
HT20	MCS0	2	149	5745	18.30	22.00	23.54	30.00		4.70	Pass	
HT20	MCS0	2	157	5785	18.30	21.90	23.47	30.00		4.70	Pass	
HT20	MCS0	2	165	5825	19.40	22.00	23.90	30.00		4.70	Pass	
HT40	MCS0	2	151	5755	18.40	22.10	23.64	30.00		4.70	Pass	
HT40	MCS0	2	159	5795	18.80	21.90	23.63	30.00		4.70	Pass	
VHT20	MCS0	2	149	5745	18.30	22.10	23.61	30.00		4.70	Pass	
VHT20	MCS0	2	157	5785	18.30	22.00	23.54	30.00		4.70	Pass	
VHT20	MCS0	2	165	5825	19.40	22.10	23.97	30.00		4.70	Pass	
VHT40	MCS0	2	151	5755	18.50	22.20	23.74	30.00		4.70	Pass	
VHT40	MCS0	2	159	5795	18.90	22.00	23.73	30.00		4.70	Pass	
VHT80	MCS0	2	155	5775	18.80	22.00	23.70	30.00		4.70	Pass	

TEST RESULTS DATA
Power Spectral Density

U-NII-3 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 6	Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6	
11a	6Mbps	2	149	5745	2.22		8.47	11.38	14.39	28.44		7.56		Pass
11a	6Mbps	2	157	5785	2.22		8.33	11.14	14.15	28.44		7.56		Pass
11a	6Mbps	2	165	5825	2.22		8.73	10.79	13.80	28.44		7.56		Pass

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

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

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6		
HE20	MCS0	2	149	5745	Full	19.03	18.93	22.26	21.60	19.00	17.85	0.5	Pass
HE20	MCS0	2	157	5785	Full	18.78	18.93	21.18	22.62	16.50	17.85	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.03	18.93	21.72	21.30	18.95	16.55	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.56	37.96	40.20	41.52	36.54	37.71	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.86	37.96	40.44	41.52	36.99	37.71	0.5	Pass
HE80	MCS0	2	155	5775	Full	76.96	77.20	82.32	82.80	70.40	76.64	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6	
HE20	MCS0	2	149	5745	Full	18.50	22.20	23.74	30.00		4.70		Pass
HE20	MCS0	2	157	5785	Full	18.50	22.10	23.67	30.00		4.70		Pass
HE20	MCS0	2	165	5825	Full	19.60	22.20	24.10	30.00		4.70		Pass
HE40	MCS0	2	151	5755	Full	18.60	22.30	23.84	30.00		4.70		Pass
HE40	MCS0	2	159	5795	Full	19.00	22.10	23.83	30.00		4.70		Pass
HE80	MCS0	2	155	5775	Full	18.90	22.10	23.80	30.00		4.70		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 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 6	Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6	
HE20	MCS0	2	149	5745	Full	2.22	8.98	11.71	14.72	28.44	28.44	7.56	7.56	Pass	
HE20	MCS0	2	157	5785	Full	2.22	8.77	11.45	14.46	28.44	28.44	7.56	7.56	Pass	
HE20	MCS0	2	165	5825	Full	2.22	9.55	11.35	14.36	28.44	28.44	7.56	7.56	Pass	
HE40	MCS0	2	151	5755	Full	2.22	4.87	7.95	10.96	28.44	28.44	7.56	7.56	Pass	
HE40	MCS0	2	159	5795	Full	2.22	5.63	8.02	11.03	28.44	28.44	7.56	7.56	Pass	
HE80	MCS0	2	155	5775	Full	2.22	2.42	5.70	8.71	28.44	28.44	7.56	7.56	Pass	

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



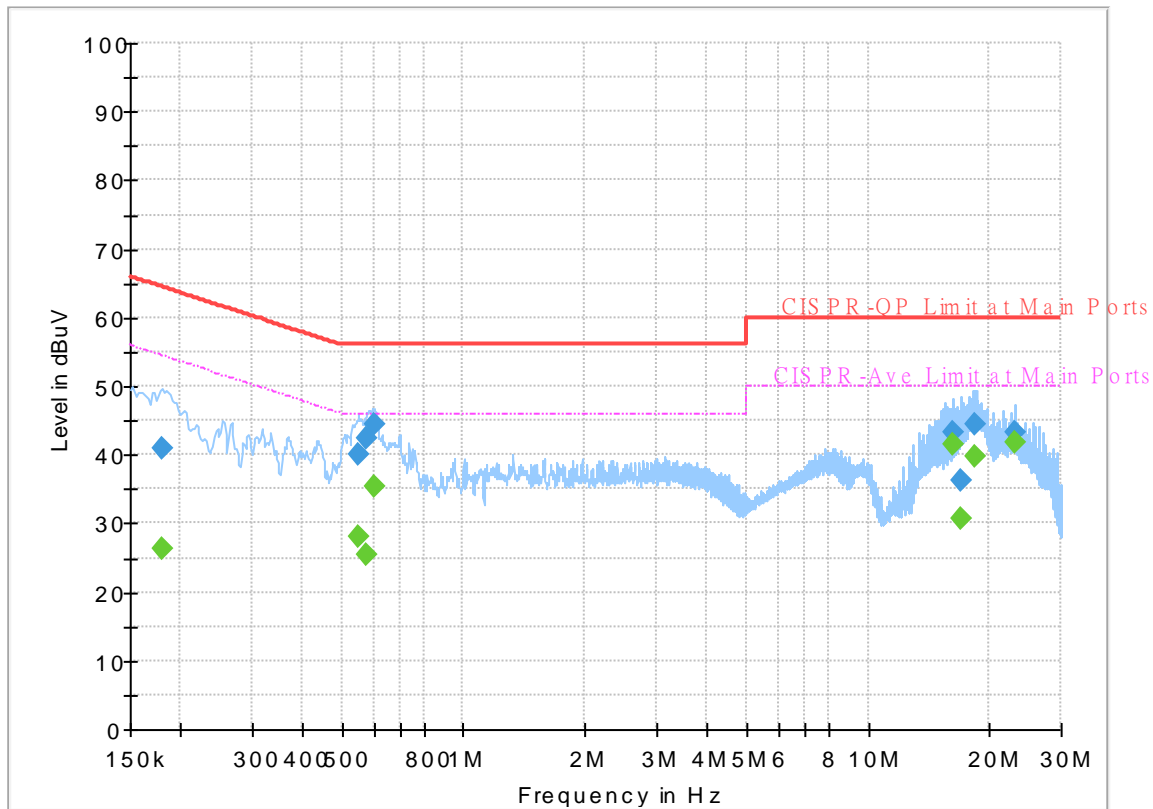
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 261637
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



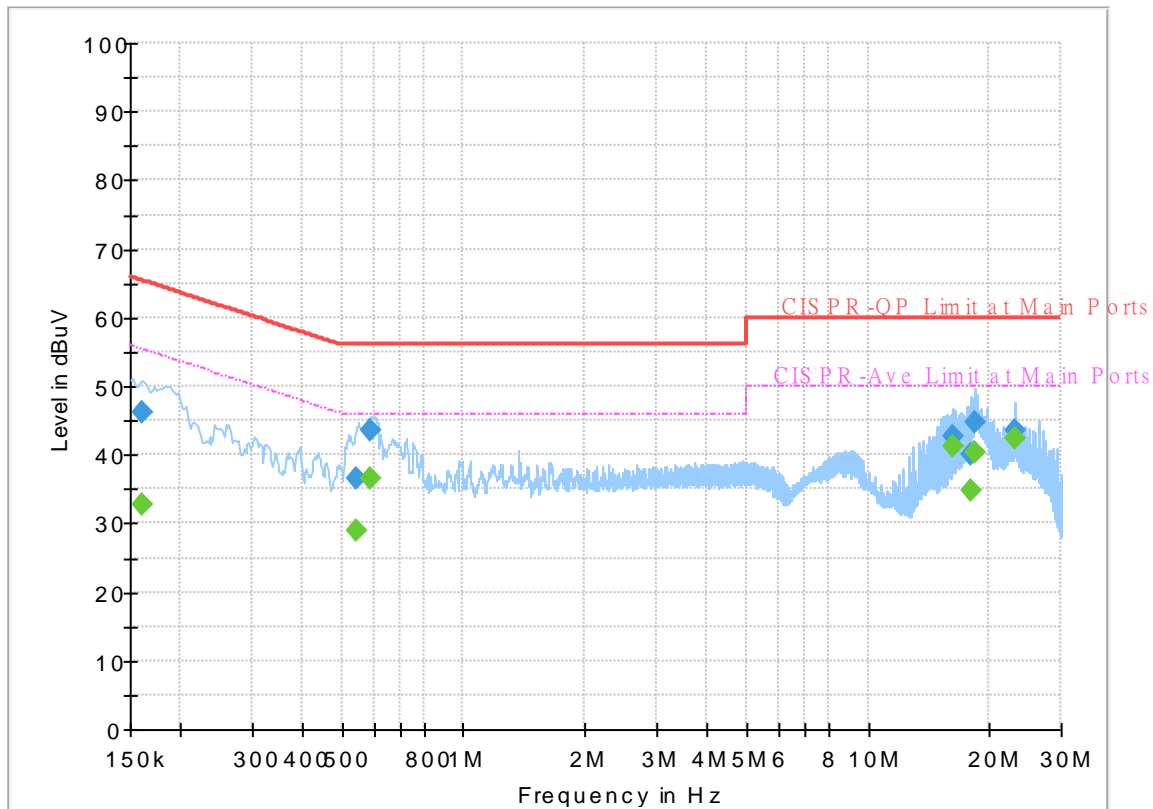
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	26.34	54.52	28.18	L1	OFF	19.6
0.179250	40.80	---	64.52	23.72	L1	OFF	19.6
0.550500	---	28.11	46.00	17.89	L1	OFF	19.6
0.550500	39.99	---	56.00	16.01	L1	OFF	19.6
0.575250	---	25.58	46.00	20.42	L1	OFF	19.6
0.575250	42.37	---	56.00	13.63	L1	OFF	19.6
0.600000	---	35.48	46.00	10.52	L1	OFF	19.6
0.600000	44.32	---	56.00	11.68	L1	OFF	19.6
16.228500	---	41.44	50.00	8.56	L1	OFF	19.8
16.228500	43.27	---	60.00	16.73	L1	OFF	19.8
17.002500	---	30.77	50.00	19.23	L1	OFF	19.8
17.002500	36.32	---	60.00	23.68	L1	OFF	19.8
18.366000	---	39.79	50.00	10.21	L1	OFF	19.8
18.366000	44.41	---	60.00	15.59	L1	OFF	19.8
23.129250	---	41.94	50.00	8.06	L1	OFF	19.8
23.129250	43.28	---	60.00	16.72	L1	OFF	19.8

EUT Information

Report NO : 261637
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	32.64	55.40	22.76	N	OFF	19.6
0.161250	46.34	---	65.40	19.06	N	OFF	19.6
0.546000	---	28.96	46.00	17.04	N	OFF	19.6
0.546000	36.58	---	56.00	19.42	N	OFF	19.6
0.591000	---	36.54	46.00	9.46	N	OFF	19.6
0.591000	43.45	---	56.00	12.55	N	OFF	19.6
16.228500	---	41.17	50.00	8.83	N	OFF	19.9
16.228500	42.82	---	60.00	17.18	N	OFF	19.9
17.934000	---	34.76	50.00	15.24	N	OFF	19.9
17.934000	40.01	---	60.00	19.99	N	OFF	19.9
18.305250	---	40.38	50.00	9.62	N	OFF	19.9
18.305250	44.70	---	60.00	15.30	N	OFF	19.9
23.129250	---	42.28	50.00	7.72	N	OFF	20.0
23.129250	43.49	---	60.00	16.51	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Andy Yang, Gary Guo and Steven Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%



Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 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+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 149 5745MHz		5646.4	53.14	-15.06	68.2	38.3	33.09	11.61	29.86	400	199	P	H	
		5697	54.98	-48.01	102.99	39.81	33.38	11.67	29.88	400	199	P	H	
		5720	62.96	-47.84	110.8	47.63	33.52	11.7	29.89	400	199	P	H	
		5724	65.75	-54.17	119.92	50.4	33.54	11.7	29.89	400	199	P	H	
	*	5745	113.78	-	-	98.28	33.67	11.73	29.9	400	199	P	H	
	*	5745	106.62	-	-	91.12	33.67	11.73	29.9	400	199	A	H	
														H
														H
			5647.8	54.41	-13.79	68.2	39.57	33.09	11.61	29.86	317	4	P	V
			5684.2	56.19	-37.35	93.54	41.09	33.31	11.66	29.87	317	4	P	V
			5719	66.5	-44.02	110.52	51.18	33.51	11.7	29.89	317	4	P	V
			5723.6	72.08	-46.93	119.01	56.73	33.54	11.7	29.89	317	4	P	V
	*		5745	117.79	-	-	102.29	33.67	11.73	29.9	317	4	P	V
	*		5745	110.75	-	-	95.25	33.67	11.73	29.9	317	4	A	V
														V
														V



WiFi Ant. 5+6	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		5648.4	53.05	-15.15	68.2	38.21	33.09	11.61	29.86	394	198	P	H	
		5676	55.21	-32.27	87.48	40.17	33.26	11.65	29.87	394	198	P	H	
		5708.2	54.95	-52.55	107.5	39.69	33.45	11.69	29.88	394	198	P	H	
		5722.4	53.78	-62.49	116.27	38.44	33.53	11.7	29.89	394	198	P	H	
	*	5785	112.55	-	-	96.84	33.84	11.78	29.91	394	198	P	H	
	*	5785	105.12	-	-	89.41	33.84	11.78	29.91	394	198	A	H	
		5853.4	53.92	-60.53	114.45	38.01	34.01	11.84	29.94	394	198	P	H	
		5867.2	53.74	-53.64	107.38	37.77	34.07	11.85	29.95	394	198	P	H	
		5877	57.16	-46.55	103.71	41.14	34.11	11.86	29.95	394	198	P	H	
		5937.4	54.84	-13.36	68.2	38.71	34.2	11.9	29.97	394	198	P	H	
														H
														H
			5643.2	53.5	-14.7	68.2	38.69	33.07	11.6	29.86	334	6	P	V
			5682.6	54.93	-37.43	92.36	39.85	33.3	11.65	29.87	334	6	P	V
			5720	54.71	-56.09	110.8	39.38	33.52	11.7	29.89	334	6	P	V
			5720	54.71	-56.09	110.8	39.38	33.52	11.7	29.89	334	6	P	V
	*		5785	116.63	-	-	100.92	33.84	11.78	29.91	334	6	P	V
	*		5785	109.88	-	-	94.17	33.84	11.78	29.91	334	6	A	V
			5854.4	53.08	-59.09	112.17	37.16	34.02	11.84	29.94	334	6	P	V
			5872.4	55.35	-50.58	105.93	39.36	34.09	11.85	29.95	334	6	P	V
		5911	55.54	-22.99	78.53	39.42	34.2	11.88	29.96	334	6	P	V	
		5927	54.27	-13.93	68.2	38.14	34.2	11.9	29.97	334	6	P	V	
													V	
													V	



WiFi Ant. 5+6	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 165 5825MHz	*	5825	110.3	-	-	94.46	33.95	11.82	29.93	367	291	P	H	
	*	5825	104.34	-	-	88.5	33.95	11.82	29.93	367	291	A	H	
		5853.4	57.89	-56.56	114.45	41.98	34.01	11.84	29.94	367	291	P	H	
		5857.8	55.89	-54.12	110.01	39.96	34.03	11.84	29.94	367	291	P	H	
		5912	54.95	-22.84	77.79	38.83	34.2	11.88	29.96	367	291	P	H	
		5948.8	54.44	-13.76	68.2	38.31	34.2	11.91	29.98	367	291	P	H	
														H
														H
	*	5825	118.09	-	-	102.25	33.95	11.82	29.93	299	4	4	P	V
	*	5825	109.99	-	-	94.15	33.95	11.82	29.93	299	4	4	A	V
		5852.6	62.54	-53.73	116.27	46.63	34.01	11.84	29.94	299	4	4	P	V
		5857.8	61.17	-48.84	110.01	45.24	34.03	11.84	29.94	299	4	4	P	V
		5879.4	55.68	-46.25	101.93	39.65	34.12	11.86	29.95	299	4	4	P	V
		5928.6	54.9	-13.3	68.2	38.77	34.2	11.9	29.97	299	4	4	P	V
														V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



WIFI Ant. 5+6	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	51.48	-22.52	74	61.89	38.86	17.16	66.43	309	55	P	H
		11570	42.25	-11.75	54	52.66	38.86	17.16	66.43	309	55	A	H
		17355	48.64	-19.56	68.2	54.74	38.52	21.38	66	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			11570	51.23	-22.77	74	61.64	38.86	17.16	66.43	281	161	P
		11570	41.6	-12.4	54	52.01	38.86	17.16	66.43	281	161	A	V
		17355	47.17	-21.03	68.2	53.27	38.52	21.38	66	-	-	P	V
													V
													V
													V
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													V
													V
													V



WIFI Ant. 5+6	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	52.37	-21.63	74	62.93	38.6	17.22	66.38	301	151	P	H	
		11650	42.38	-11.62	54	52.94	38.6	17.22	66.38	301	151	A	H	
		17475	47.95	-20.25	68.2	53.59	38.75	21.44	65.83	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11650	50.72	-23.28	74	61.28	38.6	17.22	66.38	378	266	P	V
			11650	41.75	-12.25	54	52.31	38.6	17.22	66.38	378	266	A	V
			17475	48.71	-19.49	68.2	54.35	38.75	21.44	65.83	-	-	P	V
														V
														V
														V
														V
														V
														V
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



Band 4 5725~5850MHz
WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 5+6	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		5628.4	54.1	-14.1	68.2	39.35	33.01	11.59	29.85	400	200	P	H	
		5694.8	55.1	-46.27	101.37	39.94	33.37	11.67	29.88	400	200	P	H	
		5718.6	64.83	-45.58	110.41	49.51	33.51	11.7	29.89	400	200	P	H	
		5724.4	69.79	-51.04	120.83	54.42	33.55	11.71	29.89	400	200	P	H	
	*	5745	113.34	-	-	97.84	33.67	11.73	29.9	400	200	P	H	
	*	5745	106.1	-	-	90.6	33.67	11.73	29.9	400	200	A	H	
														H
														H
			5648	54.65	-13.55	68.2	39.81	33.09	11.61	29.86	282	3	P	V
			5697.8	58.05	-45.53	103.58	42.87	33.39	11.67	29.88	282	3	P	V
			5717.4	68.98	-41.09	110.07	53.67	33.5	11.7	29.89	282	3	P	V
			5724.8	74.46	-47.28	121.74	59.09	33.55	11.71	29.89	282	3	P	V
	*		5745	118.01	-	-	102.51	33.67	11.73	29.9	282	3	P	V
	*		5745	110.68	-	-	95.18	33.67	11.73	29.9	282	3	A	V
													V	
													V	



WIFI Ant. 5+6	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)
		5648.6	53.84	-14.36	68.2	39	33.09	11.61	29.86	194	301	P	H
		5694	55.08	-45.7	100.78	39.93	33.36	11.67	29.88	194	301	P	H
		5709.4	53.9	-53.93	107.83	38.63	33.46	11.69	29.88	194	301	P	H
		5722.2	53.03	-62.79	115.82	37.69	33.53	11.7	29.89	194	301	P	H
	*	5785	113.52	-	-	97.81	33.84	11.78	29.91	194	301	P	H
	*	5785	105.32	-	-	89.61	33.84	11.78	29.91	194	301	A	H
		5851.4	54.11	-64.9	119.01	38.2	34.01	11.84	29.94	194	301	P	H
		5856.2	54.22	-56.24	110.46	38.3	34.02	11.84	29.94	194	301	P	H
		5888.4	55.51	-39.74	95.25	39.45	34.15	11.87	29.96	194	301	P	H
		5940.4	54.65	-13.55	68.2	38.52	34.2	11.91	29.98	194	301	P	H
802.11ax													H
HE20 Full													H
CH 157		5603.2	54.34	-13.86	68.2	39.72	32.91	11.55	29.84	333	4	P	V
5785MHz		5688.8	55.41	-41.53	96.94	40.3	33.33	11.66	29.88	333	4	P	V
		5716.8	54.52	-55.39	109.91	39.21	33.5	11.7	29.89	333	4	P	V
		5722.4	54.57	-61.7	116.27	39.23	33.53	11.7	29.89	333	4	P	V
	*	5785	118.96	-	-	103.25	33.84	11.78	29.91	333	4	P	V
	*	5785	109.96	-	-	94.25	33.84	11.78	29.91	333	4	A	V
		5850.8	54.53	-65.85	120.38	38.63	34	11.84	29.94	333	4	P	V
		5860	54.27	-55.13	109.4	38.32	34.04	11.85	29.94	333	4	P	V
		5883.2	55.45	-43.66	99.11	39.41	34.13	11.86	29.95	333	4	P	V
		5937.6	54.43	-13.77	68.2	38.31	34.2	11.9	29.98	333	4	P	V
													V
													V



WiFi Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Full CH 165 5825MHz	*	5825	119.02	-	-	103.13	34	11.82	29.93	196	77	P	H	
	*	5825	111.04	-	-	95.15	34	11.82	29.93	196	77	A	H	
		5850.2	90.92	-30.82	121.74	74.92	34.1	11.84	29.94	196	77	P	H	
		5855.6	83.22	-27.41	110.63	67.2	34.12	11.84	29.94	196	77	P	H	
		5876.4	71.33	-32.83	104.16	55.21	34.21	11.86	29.95	196	77	P	H	
		5926.6	57.21	-10.99	68.2	40.99	34.3	11.89	29.97	196	77	P	H	
														H
														H
	*	5825	122.9	-	-	107.01	34	11.82	29.93	361	93	93	P	V
	*	5825	115.02	-	-	99.13	34	11.82	29.93	361	93	93	A	V
		5850	93.06	-29.14	122.2	77.06	34.1	11.84	29.94	361	93	93	P	V
		5857.8	86.65	-23.36	110.01	70.62	34.13	11.84	29.94	361	93	93	P	V
		5875.6	76.64	-28.11	104.75	60.53	34.2	11.86	29.95	361	93	93	P	V
		5927.8	56.9	-11.3	68.2	40.67	34.3	11.9	29.97	361	93	93	P	V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Full CH 149 5745MHz		11490	47.56	-26.44	74	57.93	39	17.1	66.47	-	-	P	H	
		17235	48.32	-19.88	68.2	54.96	38.2	21.32	66.16	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11490	47.96	-26.04	74	58.33	39	17.1	66.47	-	-	P	V
			17235	49.48	-18.72	68.2	56.12	38.2	21.32	66.16	-	-	P	V
													V	
													V	
													V	
													V	
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WiFi Ant. 5+6	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Full CH 165 5825MHz		11650	57.15	-16.85	74	67.51	38.8	17.22	66.38	310	341	P	H	
		11650	45.98	-8.02	54	56.34	38.8	17.22	66.38	310	341	A	H	
		17475	64.48	-3.72	68.2	69.9	38.97	21.44	65.83	279	12	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11650	54.43	-19.57	74	64.79	38.8	17.22	66.38	329	269	P	V
			11650	43.04	-10.96	54	53.4	38.8	17.22	66.38	329	269	A	V
			17475	66.05	-2.15	68.2	71.47	38.97	21.44	65.83	185	262	P	V
														V
														V
														V
														V
														V
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



Band 4 5725~5850MHz
WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 5+6	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)
		5612.2	54.19	-14.01	68.2	39.51	32.95	11.57	29.84	400	200	P	H
		5695.6	58.34	-43.62	101.96	43.18	33.37	11.67	29.88	400	200	P	H
		5712.4	68.08	-40.59	108.67	52.8	33.47	11.69	29.88	400	200	P	H
		5723	68.72	-48.92	117.64	53.37	33.54	11.7	29.89	400	200	P	H
	*	5755	111.45	-	-	95.89	33.72	11.74	29.9	400	200	P	H
	*	5755	102.96	-	-	87.4	33.72	11.74	29.9	400	200	A	H
		5853.8	52.9	-60.64	113.54	36.98	34.02	11.84	29.94	400	200	P	H
		5860.8	53.08	-56.09	109.17	37.13	34.04	11.85	29.94	400	200	P	H
		5914.2	55.46	-20.71	76.17	39.34	34.2	11.89	29.97	400	200	P	H
		5927.8	56.3	-11.9	68.2	40.17	34.2	11.9	29.97	400	200	P	H
802.11ax													H
HE40 Full													H
CH 151		5636.6	55.28	-12.92	68.2	40.48	33.05	11.6	29.85	313	4	P	V
5755MHz		5699.2	65.5	-39.11	104.61	50.31	33.4	11.67	29.88	313	4	P	V
		5716.2	71.83	-37.91	109.74	56.52	33.5	11.7	29.89	313	4	P	V
		5722.6	73.35	-43.38	116.73	58	33.54	11.7	29.89	313	4	P	V
	*	5755	115.28	-	-	99.72	33.72	11.74	29.9	313	4	P	V
	*	5755	107.13	-	-	91.57	33.72	11.74	29.9	313	4	A	V
		5853.2	55.21	-59.69	114.9	39.3	34.01	11.84	29.94	313	4	P	V
		5861.2	55.07	-53.99	109.06	39.12	34.04	11.85	29.94	313	4	P	V
		5880	55.23	-46.26	101.49	39.2	34.12	11.86	29.95	313	4	P	V
		5926.4	54.61	-13.59	68.2	38.49	34.2	11.89	29.97	313	4	P	V
													V
													V



WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5649.4	53.9	-14.3	68.2	39.05	33.1	11.61	29.86	193	302	P	H
		5699.2	55	-49.61	104.61	39.81	33.4	11.67	29.88	193	302	P	H
		5712.2	56.36	-52.26	108.62	41.08	33.47	11.69	29.88	193	302	P	H
		5724.4	55.56	-65.27	120.83	40.19	33.55	11.71	29.89	193	302	P	H
	*	5795	112.14	-	-	96.39	33.88	11.79	29.92	193	302	P	H
	*	5795	102.94	-	-	87.19	33.88	11.79	29.92	193	302	A	H
		5854.4	56.86	-55.31	112.17	40.94	34.02	11.84	29.94	193	302	P	H
		5866.2	55.99	-51.67	107.66	40.03	34.06	11.85	29.95	193	302	P	H
		5875	54.97	-50.23	105.2	38.96	34.1	11.86	29.95	193	302	P	H
		5941.2	54.61	-13.59	68.2	38.48	34.2	11.91	29.98	193	302	P	H
802.11ax													H
HE40 Full													H
CH 159		5609.6	54.25	-13.95	68.2	39.59	32.94	11.56	29.84	319	4	P	V
5795MHz		5699.8	55.45	-49.6	105.05	40.26	33.4	11.67	29.88	319	4	P	V
		5712.4	58.79	-49.88	108.67	43.51	33.47	11.69	29.88	319	4	P	V
		5722.2	57.98	-57.84	115.82	42.64	33.53	11.7	29.89	319	4	P	V
	*	5795	115.29	-	-	99.54	33.88	11.79	29.92	319	4	P	V
	*	5795	107.16	-	-	91.41	33.88	11.79	29.92	319	4	A	V
		5850.6	59.84	-60.99	120.83	43.94	34	11.84	29.94	319	4	P	V
		5859	60.23	-49.45	109.68	44.29	34.04	11.84	29.94	319	4	P	V
		5880.2	56.47	-44.87	101.34	40.44	34.12	11.86	29.95	319	4	P	V
		5934.8	55.6	-12.6	68.2	39.47	34.2	11.9	29.97	319	4	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WiFi Ant. 5+6	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 159 5795MHz		11590	47.25	-26.75	74	57.67	38.82	17.18	66.42	-	-	P	H
		17385	46.9	-21.3	68.2	52.82	38.64	21.4	65.96	-	-	P	H
													H
													H
													H
													H
													H
													H
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													H
													H
													H
													H
													H
													H
													H
													H
													H
	802.11ax HE40 Full CH 159 5795MHz		11590	47.92	-26.08	74	58.34	38.82	17.18	66.42	-	-	P
		17385	47	-21.2	68.2	52.92	38.64	21.4	65.96	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 												



Band 4 5725~5850MHz
WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 5+6	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)
		5648.2	57.96	-10.24	68.2	43.12	33.09	11.61	29.86	400	198	P	H
		5699.8	69.63	-35.42	105.05	54.44	33.4	11.67	29.88	400	198	P	H
		5718.6	72.54	-37.87	110.41	57.22	33.51	11.7	29.89	400	198	P	H
		5720.4	69.29	-42.42	111.71	53.96	33.52	11.7	29.89	400	198	P	H
	*	5775	108.24	-	-	92.58	33.8	11.77	29.91	400	198	P	H
	*	5775	100.11	-	-	84.45	33.8	11.77	29.91	400	198	A	H
		5852.4	64.39	-52.34	116.73	48.48	34.01	11.84	29.94	400	198	P	H
		5858	62.27	-47.69	109.96	46.34	34.03	11.84	29.94	400	198	P	H
		5879	57.53	-44.7	102.23	41.5	34.12	11.86	29.95	400	198	P	H
		5930.6	54.64	-13.56	68.2	38.51	34.2	11.9	29.97	400	198	P	H
802.11ax													H
HE80 Full													H
CH 155		5642	59.71	-8.49	68.2	44.9	33.07	11.6	29.86	320	5	P	V
5775MHz		5699.8	71.48	-33.57	105.05	56.29	33.4	11.67	29.88	320	5	P	V
		5717.8	74.62	-35.56	110.18	59.3	33.51	11.7	29.89	320	5	P	V
		5722	75.75	-39.61	115.36	60.41	33.53	11.7	29.89	320	5	P	V
	*	5775	112.41	-	-	96.75	33.8	11.77	29.91	320	5	P	V
	*	5775	104.49	-	-	88.83	33.8	11.77	29.91	320	5	A	V
		5852.8	70.59	-45.23	115.82	54.68	34.01	11.84	29.94	320	5	P	V
		5855.4	70.08	-40.61	110.69	54.16	34.02	11.84	29.94	320	5	P	V
		5882.8	62.5	-36.91	99.41	46.46	34.13	11.86	29.95	320	5	P	V
		5941.2	55.64	-12.56	68.2	39.51	34.2	11.91	29.98	320	5	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 5+6	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		11550	47.84	-26.16	74	58.23	38.9	17.15	66.44	-	-	P	H
		17325	46.94	-21.26	68.2	53.21	38.4	21.37	66.04	-	-	P	H
													H
													H
													H
													H
													H
													H
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													H
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													H
													H
													H
	802.11ax HE80 Full CH 155 5775MHz		11550	47.53	-26.47	74	57.92	38.9	17.15	66.44	-	-	P
		17325	47.29	-20.91	68.2	53.56	38.4	21.37	66.04	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

Emission above 18GHz

5GHz WIFI 802.11ax HE80 Full (SHF @ 1m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE80 Full SHF		21136	40.26	-33.74	74	59.99	38.02	-2.95	54.8	-	-	P	H
		30564	45.05	-43.15	68.2	62.14	40.65	-2	55.74	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			25056	41.76	-46.44	68.2	57.99	39.14	-2.27	53.1	-	-	P
		35982	45.36	-42.84	68.2	60.8	44.28	-0.92	58.8	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against 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 802.11ax HE80 Full (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+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE80 Full LF		77.25	30.96	-9.04	40	48.99	12.99	1.27	32.29	200	296	Q	H	
		211.71	42.53	-0.97	43.5	57.67	14.96	2.22	32.32	113	80	Q	H	
		260.58	38.97	-7.03	46	48.87	19.96	2.48	32.34	-	-	P	H	
		410.6	40.91	-5.09	46	47.83	22.38	3.11	32.41	212	300	Q	H	
		521.2	38.48	-7.52	46	43.76	23.77	3.52	32.57	-	-	P	H	
		903.4	39.37	-6.63	46	37.74	28.65	4.68	31.7	-	-	P	H	
														H
														H
														H
														H
														H
														H
			43.5	32.55	-7.45	40	46.53	17.53	0.76	32.27	100	52	Q	V
			208.47	35.44	-8.06	43.5	50.53	15.02	2.21	32.32	142	0	Q	V
			257.34	38	-8	46	48.37	19.5	2.47	32.34	-	-	P	V
			460.3	37.02	-8.98	46	42.94	23.26	3.31	32.49	-	-	P	V
			650	37.01	-8.99	46	39.71	25.97	3.94	32.61	-	-	P	V
			904.1	38.82	-7.18	46	37.18	28.66	4.68	31.7	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	

Remark

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



Note symbol

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



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5650	55.45	-12.75	68.2	54.51	32.22	4.58	35.86	103	308	P	H

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

For Peak Limit @ 2390MHz:

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

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Andy Yang, Gary Guo and Steven Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

Note symbol

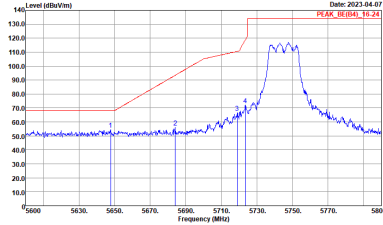
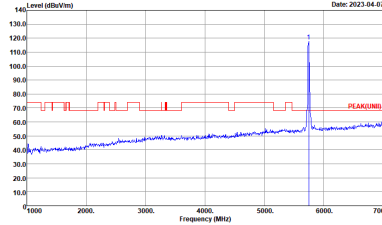
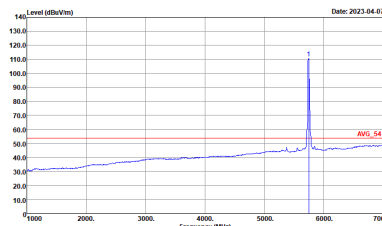
-L	Low channel location
-R	High channel location



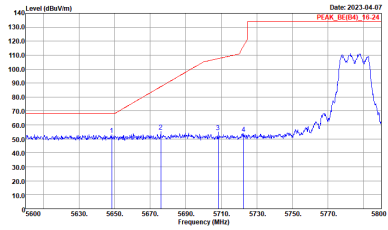
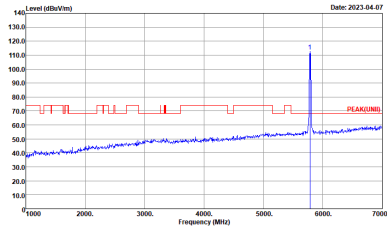
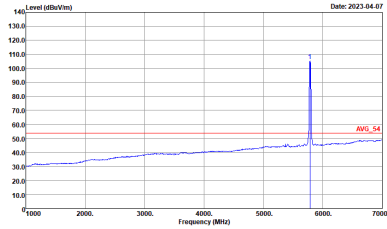
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
5+6	Horizontal	Fundamental
Peak		
Avg	Left blank	



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
5+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-1Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1Y Condition : PEAK(UN1) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+6	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-1HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1HY Condition : PEAK(UN1) 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH16-1HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p>

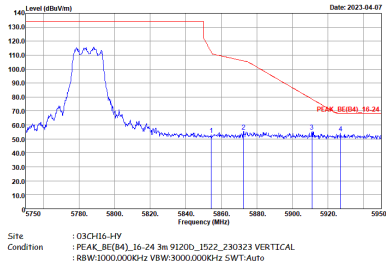


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+6	Horizontal	Fundamental
Peak	<p>Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+6	Vertical	Fundamental
Peak	<p>Site : 03CH16-1HY Condition : PEAK_BE(B4)_16_24 3m 9120D_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-1HY Condition : PEAK(UNL1) 3m 9120D_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-1HY Condition : AVG_54 3m 9120D_1522_230323 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p>

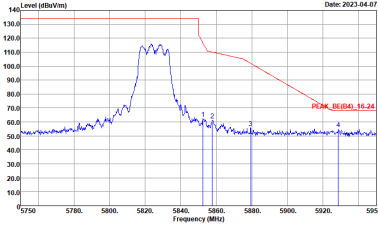
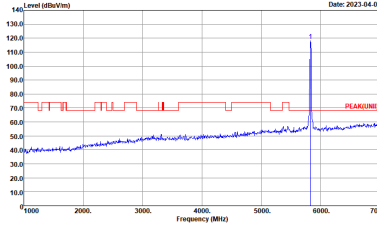
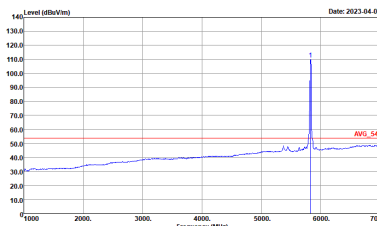


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
5+6	Vertical	Fundamental
Peak		Left blank



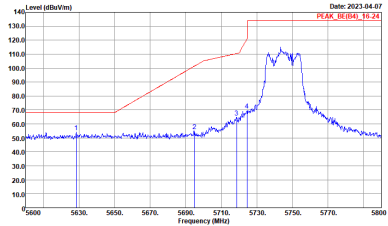
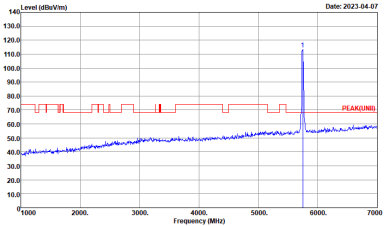
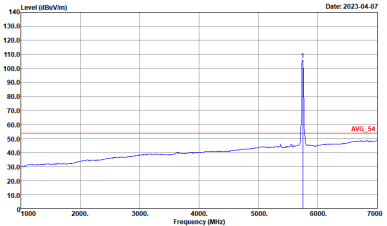
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
5+6	Horizontal	Fundamental
Peak	<p>Site : 03CH16-1HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-1HY Condition : PEAK(UN1) 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		<p>Site : 03CH16-1HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>



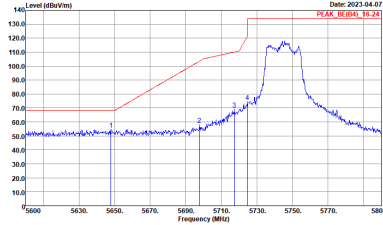
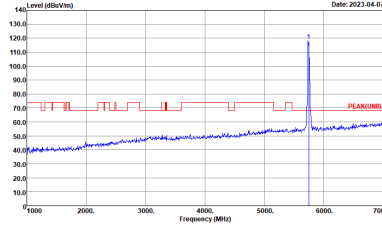
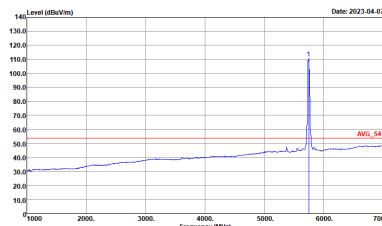
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
5+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-1HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1HY Condition : PEAK(UN1) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
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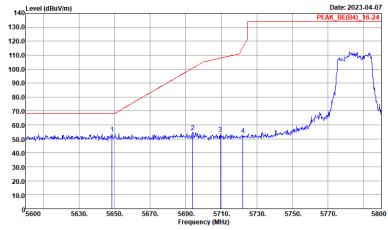
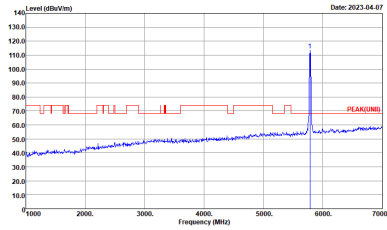
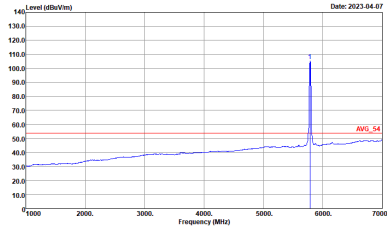
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+6	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:0.300kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-1Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1Y Condition : PEAK(UN1) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+6	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-1Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1Y Condition : PEAK(UN1) 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
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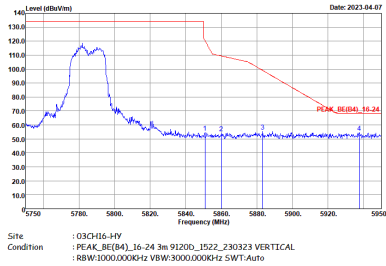


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+6	Horizontal	Fundamental
Peak	<p>Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

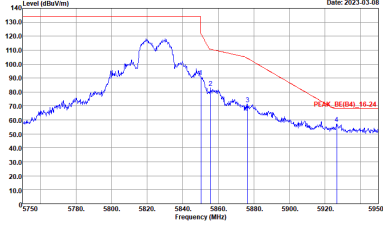
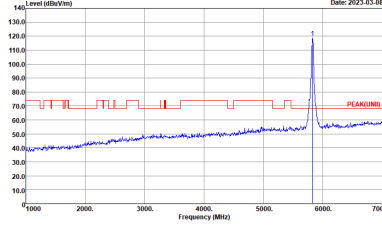
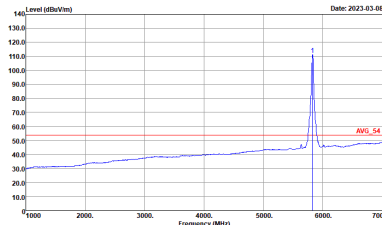


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+6	Vertical	Fundamental
Peak	<p>Site : 03CH16-1Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-1Y Condition : PEAK(UN1) 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>


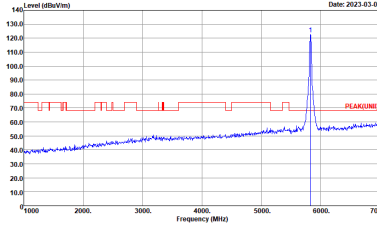
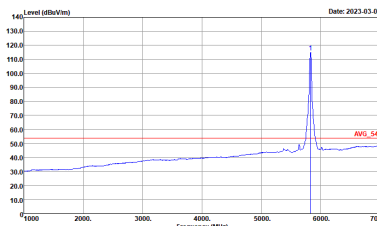


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+6	Vertical	Fundamental
Peak		Left blank



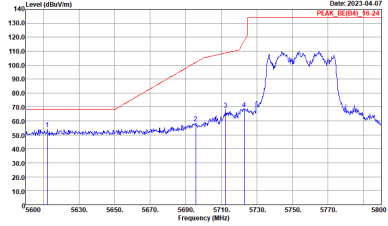
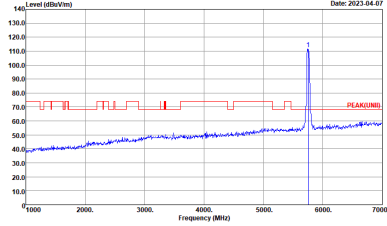
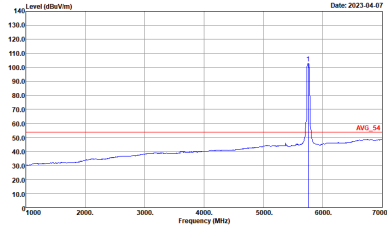
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
5+6	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-1HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1HY Condition : PEAK(UN1) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-1HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



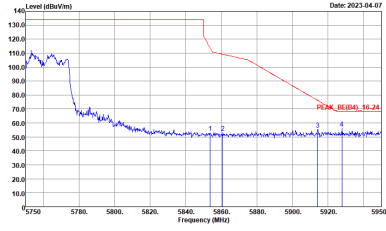
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
5+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-1HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-1HY Condition : PEAK(UNIT) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-1HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



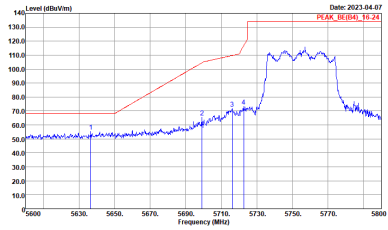
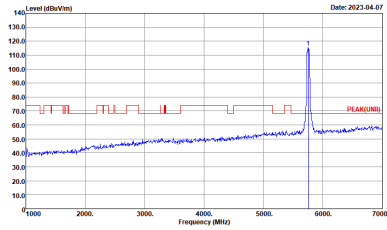
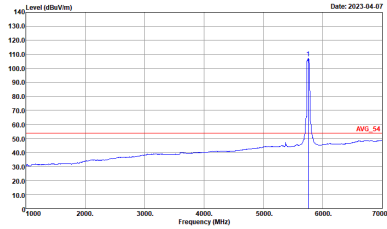
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+6	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-1Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1Y Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:0.300kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+6	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

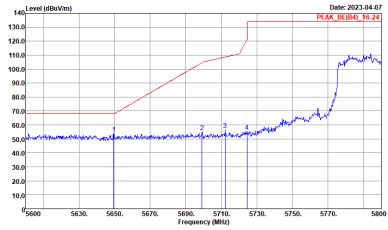
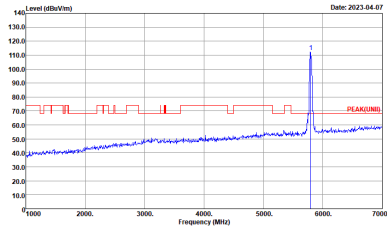
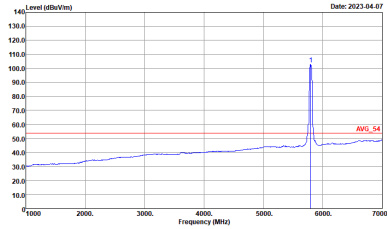


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-1Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1Y Condition : PEAK(UN1) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>

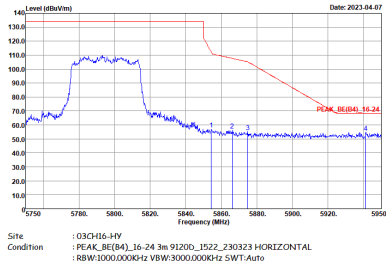


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+6	Vertical	Fundamental
Peak	<p>Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

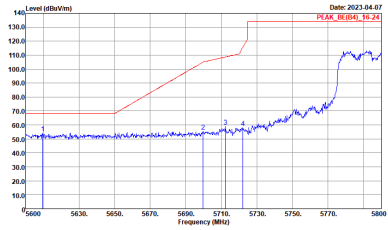
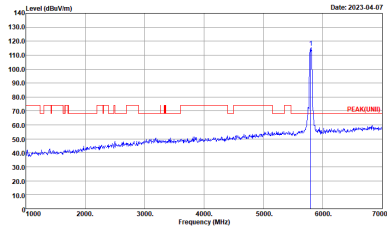
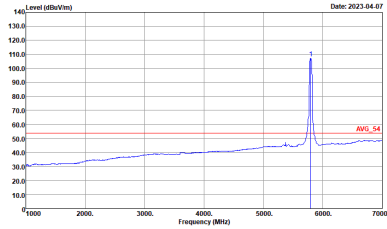


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
5+6	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-1Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1Y Condition : PEAK(UN1) 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
5+6	Horizontal	Fundamental
Peak		Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
5+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-1HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-1HY Condition : PEAK(UN1) 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-1HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
5+6	Vertical	Fundamental
Peak	<p>Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+6	Horizontal	Fundamental
Peak	<p>Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-11Y Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL RBW:3000.000kHz VBW:0.300kHz SWT:Auto</p>

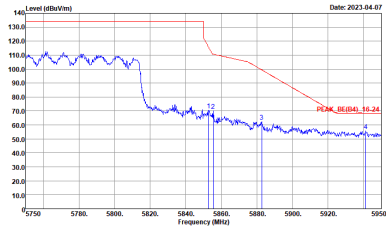


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+6	Horizontal	Fundamental
Peak	<p>Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+6	Vertical	Fundamental
Peak	<p>Site : 03CH16-1Y Condition : PEAK_BE(B4)_16_24 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-1Y Condition : PEAK(UN1) 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+6	Vertical	Fundamental
Peak	 <p>Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



Band 4 5725~5850MHz

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>

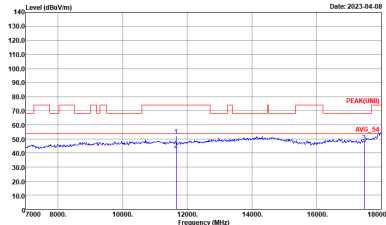
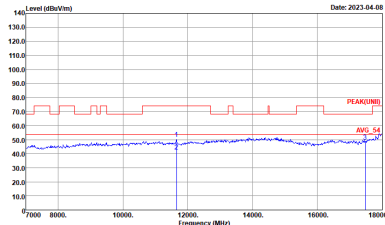


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
5+6	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV5_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV5_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Date: 2023-03-07</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Date: 2023-03-07</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-03-07</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Date: 2023-03-07</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



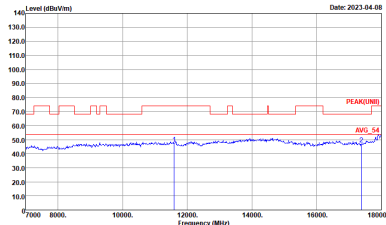
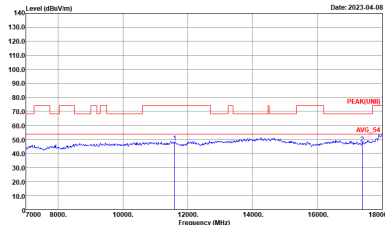
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-14Y Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-14Y Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
5+6	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-14Y Condition : PEAK(UNIT) 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-14Y Condition : PEAK(UNIT) 3m 91200_1522_230323 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
5+6	Horizontal	Vertical
<p>14.47G ~14.5G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-08</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



Band 4 5725~5850MHz

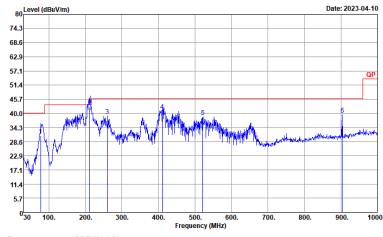
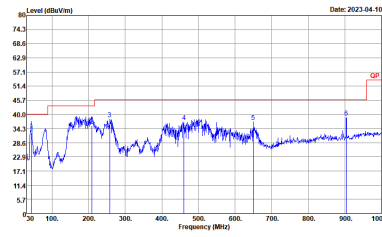
Emission above 18GHz

5GHz WIFI 802.11ax HE80 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ax HE80 Full SHF	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-1Y Condition : PEAK(UNIT)_6E 1m SHF_993_1124 HORIZONTAL</p>	<p>Site : 03CH16-1Y Condition : PEAK(UNIT)_6E 1m SHF_993_1124 VERTICAL</p>



Emission below 1GHz
5GHz WIFI 802.11ax HE80 Full (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11ax HE80 Full LF	
5+6	Horizontal	Vertical
QP / Peak	 <p>Site : :03CH16-1HY Condition : :QP 3m B1LOG_47020_221008_L1 HORIZONTAL</p>	 <p>Site : :03CH16-1HY Condition : :QP 3m B1LOG_47020_221008_L1 VERTICAL</p>



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
5+6	802.11a	93.16	1430	0.70	1kHz
5+6	5GHz 802.11ax HE20 Full RU	95.78	5445	0.18	300Hz
5+6	5GHz 802.11ax HE40 Full RU	87.47	5445	0.18	300Hz
5+6	5GHz 802.11ax HE80 Full RU	94.52	5430	0.18	300Hz

MIMO <Ant. 5+6>



—THE END—