FCC RADIO TEST REPORT

FCC ID	:	**S9GT670**
Equipment	:	**T670 Access Point**
Brand Name	:	**RUCKUS**
Model Name	:	**T670**
Applicant	:	**Ruckus Wireless, Inc. 350 W. Java Dr., Sunnyvale CA 94089 USA**
Manufacturer	:	**Ruckus Wireless, Inc. 350 W. Java Dr., Sunnyvale CA 94089 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Dec. 07, 2023 and testing was performed from Dec. 08, 2023 to Feb. 09, 2024. We, Sporton International (USA) Inc., 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 variant report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Neil Kao

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035

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History of this test report

Report No.	Version	Description	Issue Date
FR231214001C	01	Initial issue of report	Mar. 12, 2024
FR231214001C	02	Revise Section 1.1 and Appendix A This report is an updated version, replacing the report issued on Mar. 12, 2024.	Mar. 26, 2024
FR231214001C	03	Revise Section 1.1 This report is an updated version, replacing the report issued on Mar. 26, 2024.	Mar. 27, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	0.23 dB under the limit at 5639.00 MHz
3.5	15.207	AC Conducted Emission	Pass	3.21 dB under the limit at 0.39 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Wi-Fi 2.4GHz 802.11b/g/n/ac/ax/be and Wi-Fi 5GHz 802.11a/n/ac/ax/be **Antenna Type** WLAN: <Ant. 1>: Omni-Directional Antenna <Ant. 2>: Omni-Directional Antenna <Ant. 3>: Omni-Directional Antenna <Ant. 4>: Omni-Directional Antenna

Antenna information			
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Horizontal	**<Ant. 3>:** 2.20 **<Ant. 2>:** 1.30
		Vertical	**<Ant. 1>:** 2.90 **<Ant. 4>:** 1.50

Remark:

1. The device is a special case of MIMO system with two outputs driving a cross-polarized pair of linearly polarized antennas which are vertically/horizontally mounted on the main board as indicated in equipment photo exhibits.
2. The WLAN operation in 6 GHz band are disabled via software.
3. For 2x2 MIMO mode, only ANT1+ANT3 is supported.
4. The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.1.1 Antenna Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)c)i)

Cross-polarized antennas. For a system in which the antennas have fixed orientations relative to one another that ensure that the antennas are cross-polarized regardless of any user actions, the directional gain is computed as follows.

(i) Cross-polarized antennas with NANT = 2. In the case of a transmitter with only two outputs driving a pair of antennas that are cross-polarized (e.g., vertical and horizontal or left-circular and right-circular), directional gain is the gain of an individual antenna. If the two antennas have different gains, the larger gain applies.

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

	Vertical Ant 1 (dBi)	Horizontal Ant 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	2.90	2.20	2.90	2.90	0.00	0.00

Calculation example:

If a device has two cross-polarized antenna, G_{ANT1}= 2.90dBi; G_{ANT3}=2.20dBi

Directional gain of power measurement = max(2.90, 2.20) = 2.90 dBi

Directional gain of PSD measurement = max(2.90, 2.20) = 2.90 dBi

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

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)c)i)
Cross-polarized antennas. For a system in which the antennas have fixed orientations relative to one another that ensure that the antennas are cross-polarized regardless of any user actions, the directional gain is computed as follows.

(i) Cross-polarized antennas with NANT = 4. In the case of a transmitter with only four outputs driving a pair of antennas that are cross-polarized (e.g., vertical and horizontal or left-circular and right-circular), directional gain is the gain of an individual antenna. If the two antennas have different gains, the larger gain applies.

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

	Vertical Ant 1 (dBi)	Horizontal Ant 3 (dBi)	Vertical Ant 4 (dBi)	Horizontal Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	2.90	2.20	1.50	1.30	2.90	5.24	0.00	0.00

Calculation example:
If a device has four cross-polarized antenna,
G_{ANT1}= 2.90dBi; G_{ANT3}= 2.20dBi; G_{ANT4}=1.50dBi, G_{ANT2}=1.30dBi,
Directional gain of power measurement = max(2.90, 2.20, 1.50, 1.30) = 2.90 dBi
Directional gain of PSD measurement = max(Vertical DG(2.90, 1.50), Horizontal DG(2.20, 1.30))
= 5.24 dBi
Power and PSD limit reduction = Directional 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 (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	**Sporton Site No.**
	TH01-CA, CO01-CA 03CH02-CA

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

FCC Designation No.: US1250

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: All the test items were validated and recorded in accordance with the standards without any modification during the testing.

2 Test Configuration of Equipment Under Test

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

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, 802.11ac VHT40 and 802.11ax HE40 and 802.11be EHT40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80, 802.11ax HE80 and 802.11be EHT80.

2.2 Test 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 EHT20)	MCS0
802.11n HT40 (Covered by EHT 40)	MCS0
802.11ac VHT20 (Covered by EHT 20)	MCS0
802.11ac VHT40 (Covered by EHT 40)	MCS0
802.11ac VHT80 (Covered by EHT 80)	MCS0
802.11ax HE20(Covered by EHT20)	MCS0
802.11ax HE40 (Covered by EHT40)	MCS0
802.11ax HE80 (Covered by EHT80)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0

Remark:

1 Based on the manufacturer's declaration, 802.11be covers the 802.11n, 11ac and 11ax due to the same modulation family scheme. For 802.11be, only full resource unit assignment mode is tested since the EUT does not support partial resource unit assignment mode.

2 Based on the manufacturer's declaration, RF power on each chain in MIMO mode is parameterized to be greater than the power in SISO mode, giving the condition that the SISO Mode is covered by MIMO Mode which is deemed the worst case selected for testing.

3 The EUT information mentioned or listed above is declared by the manufacturer.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Normal Link + LAN 1 Link + LAN 2 Link + Adapter

<2x2 MIMO>

Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11be EHT20	802.11be EHT40	802.11be EHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

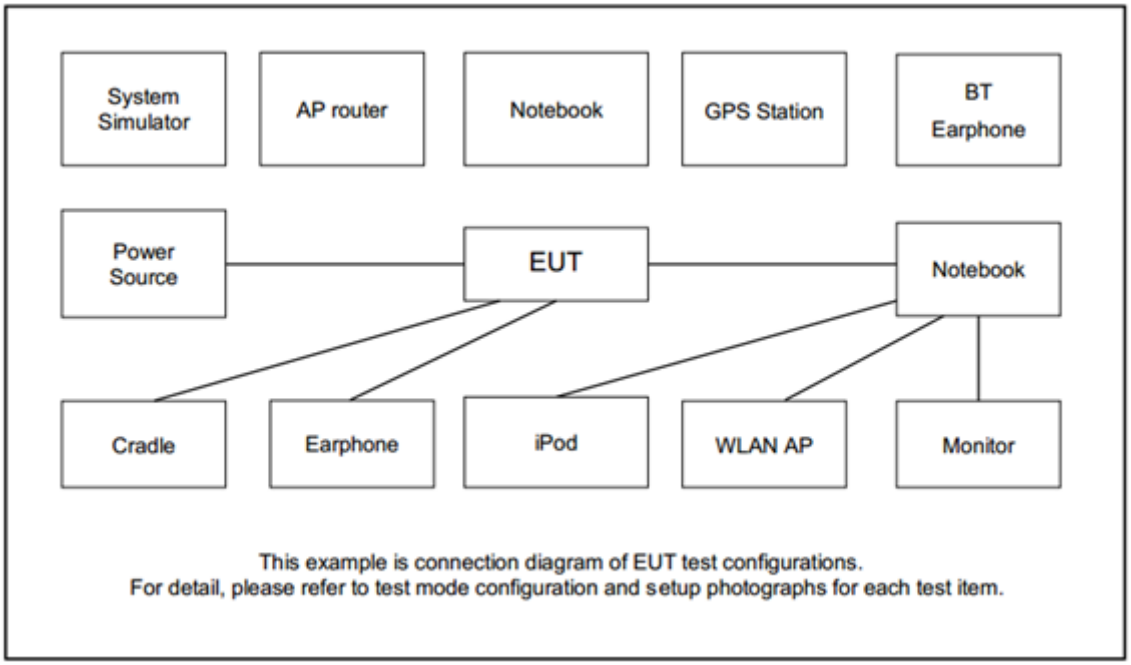
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

<4x4 MIMO>

Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11be EHT20	802.11be EHT40	802.11be EHT80
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 5440	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Notebook	Acer	N18Q13	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Dell	Latitue E7470	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Adapter	Ruckus	740-64277-001	NA	NA	Unshielded, 1.8m
5.	PoE Adapter	Ruckus	740-64310-001	NA	NA	Unshielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term 4.106 and QSPR V5.14.00227.1” 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

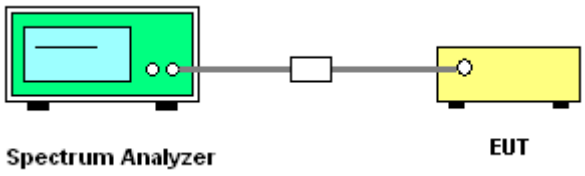
3.1.2 Measuring Instruments

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 ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup

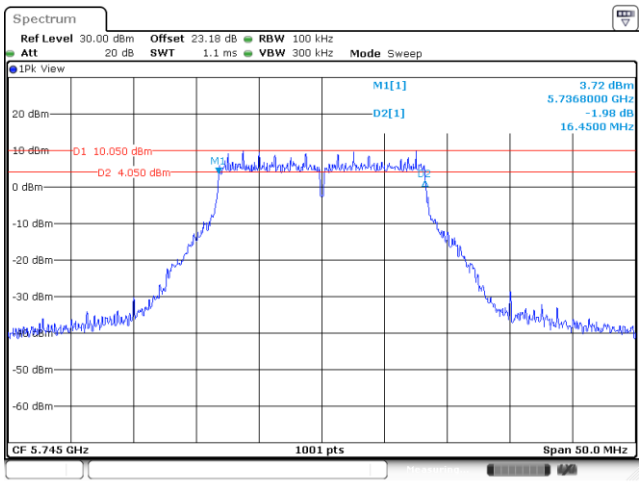
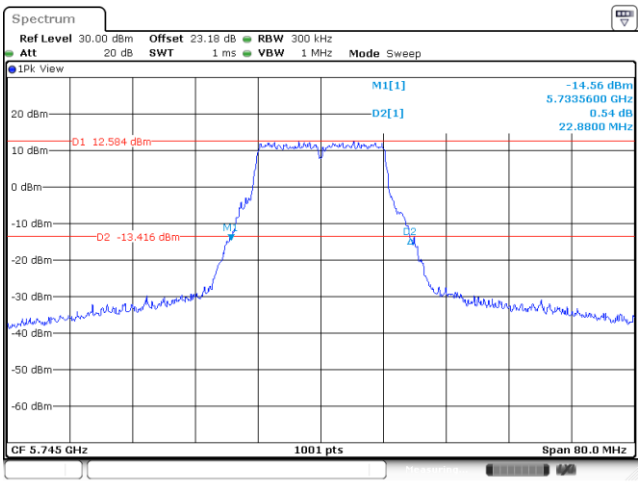
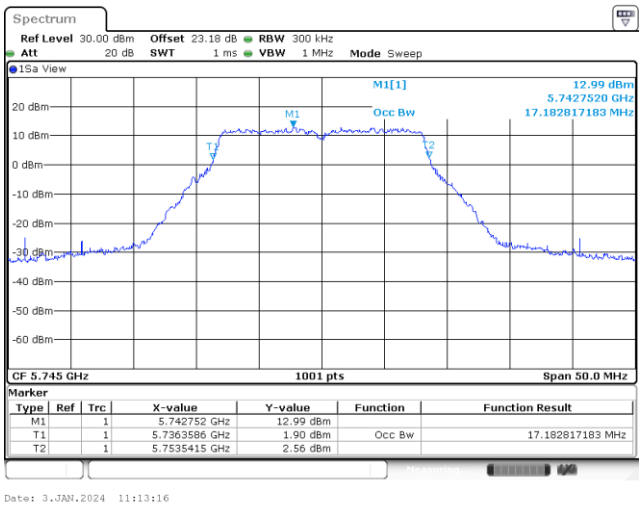


3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

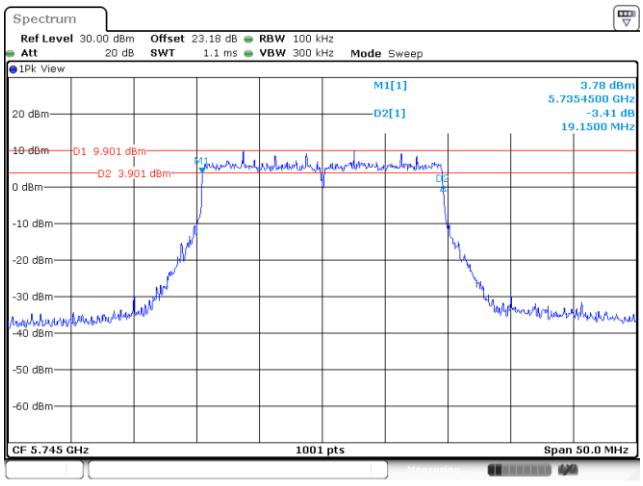
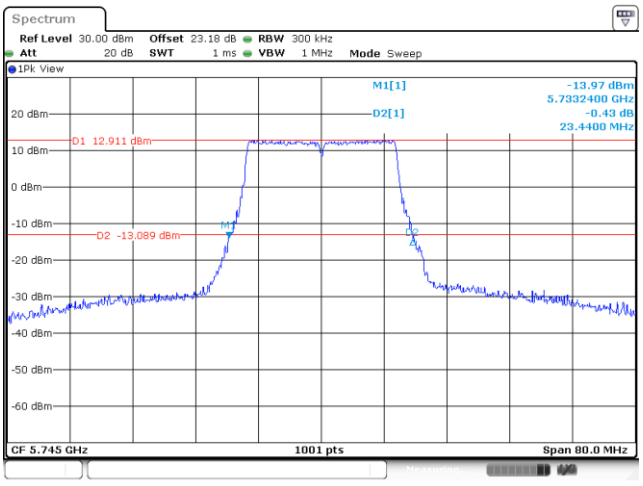
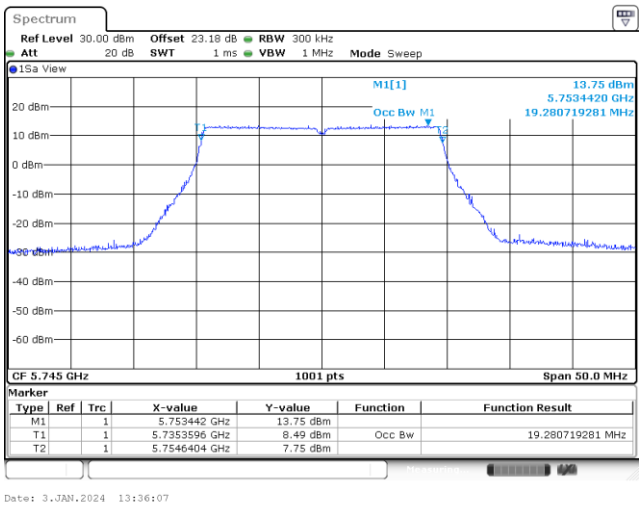
MIMO <Ant. 1 + Ant. 3>

<802.11a>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**NA**
	

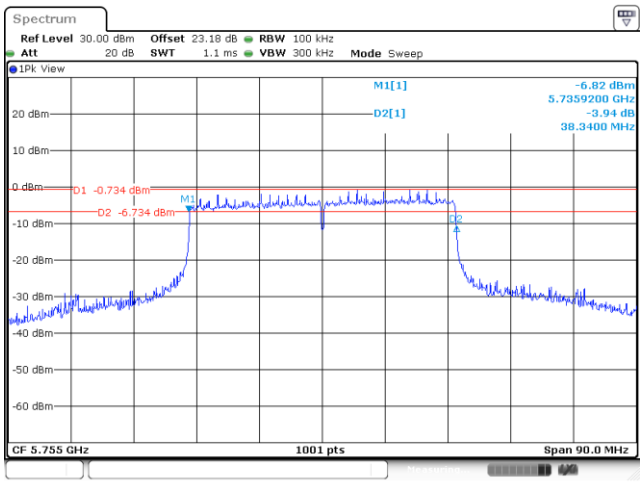
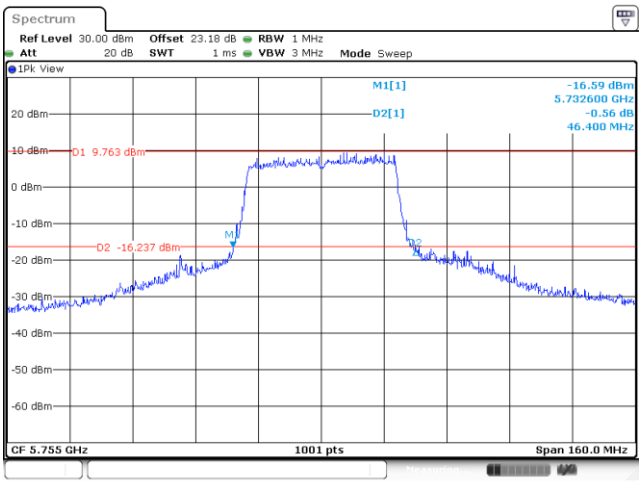
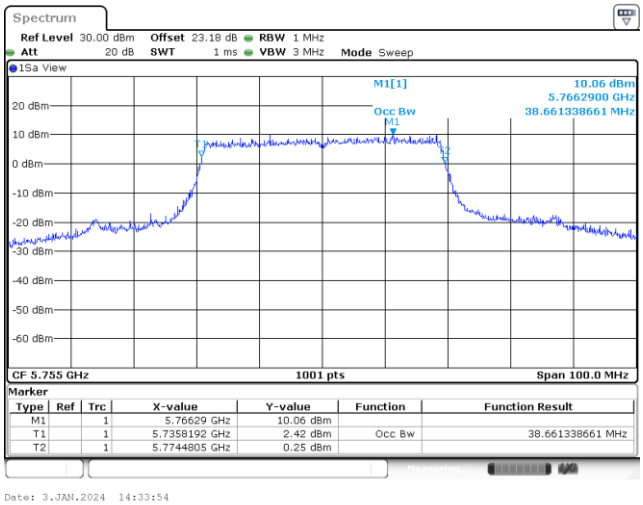
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT20>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**NA**
	

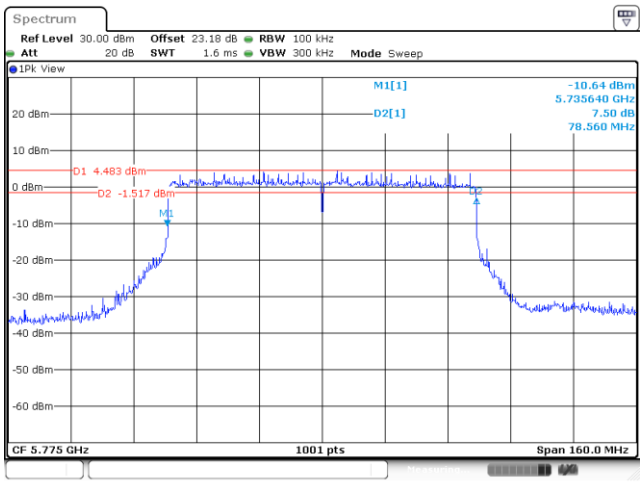
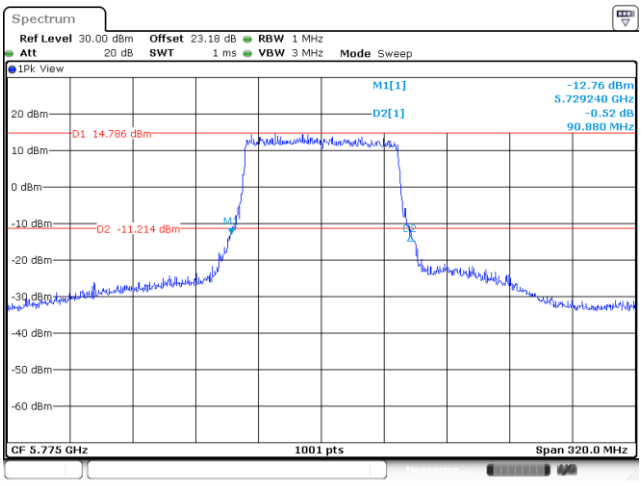
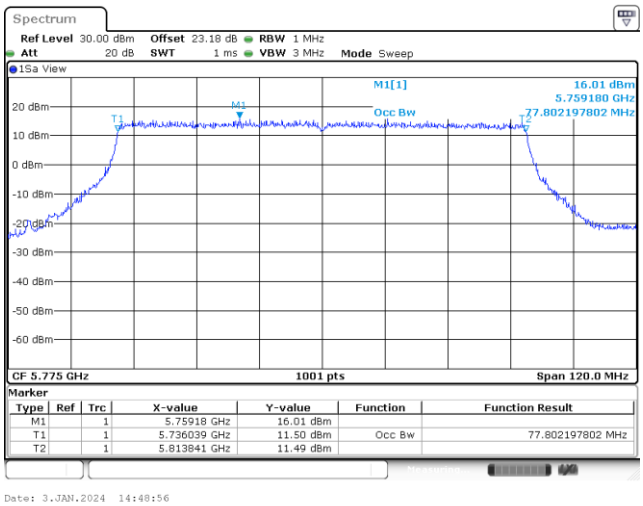
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

802.11be EHT40

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**NA**
	

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

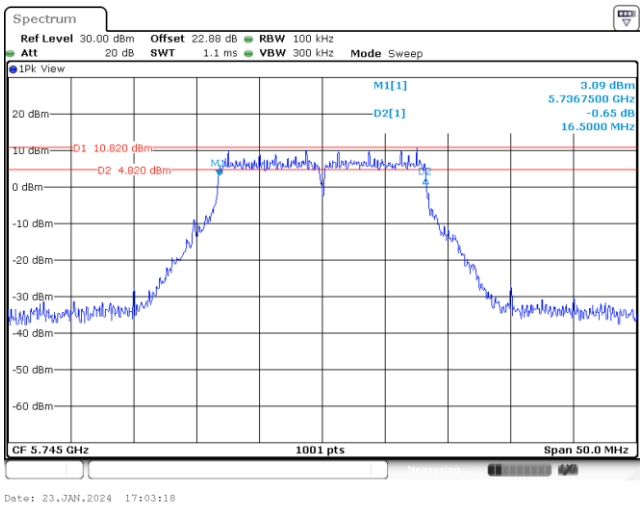
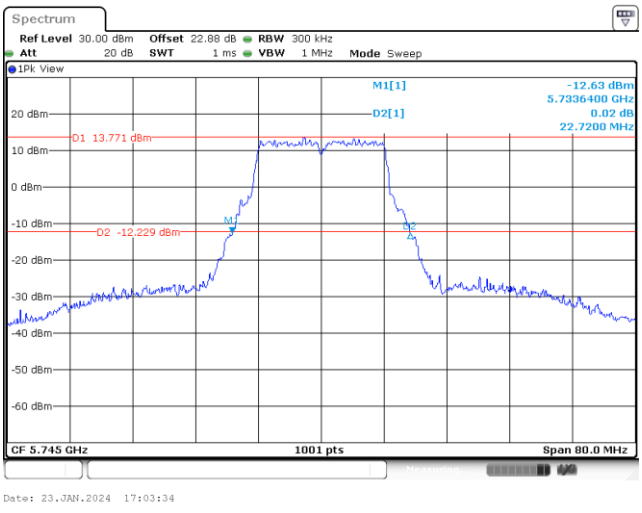
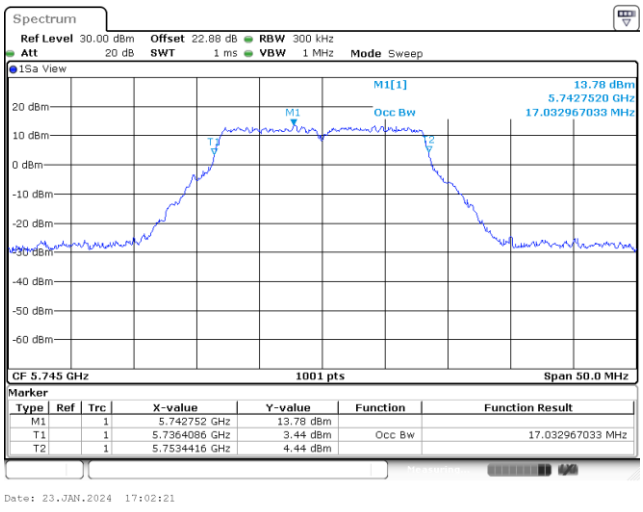
<802.11be EHT80>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**NA**
	

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

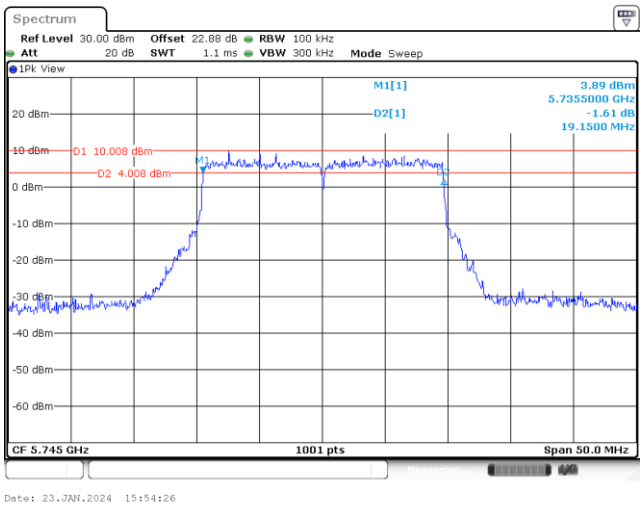
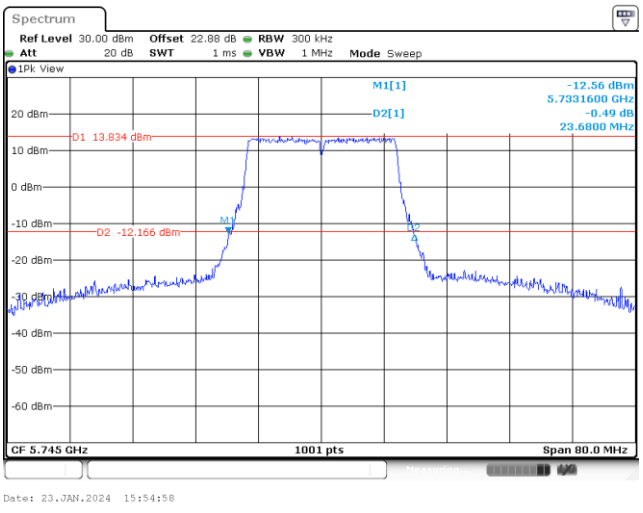
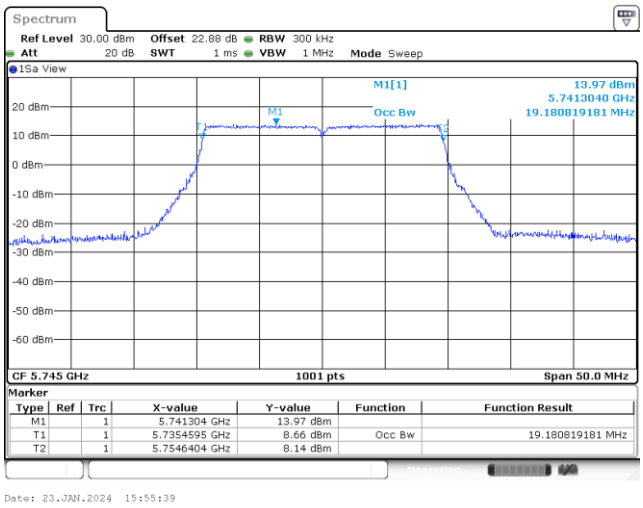
MIMO <Ant. 1+3+4+2>

<802.11a>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**NA**
	

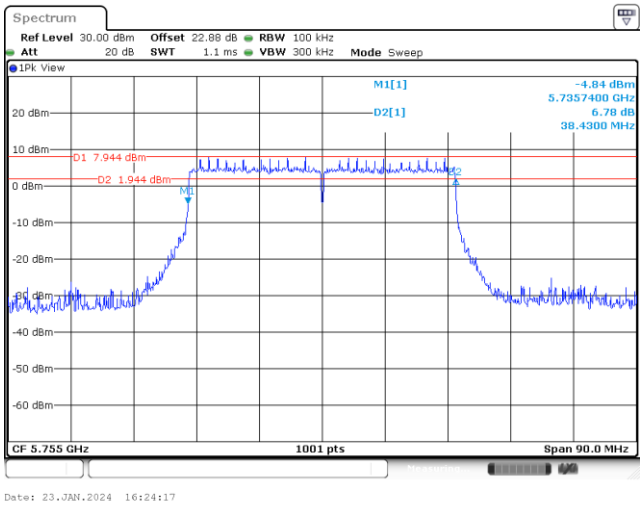
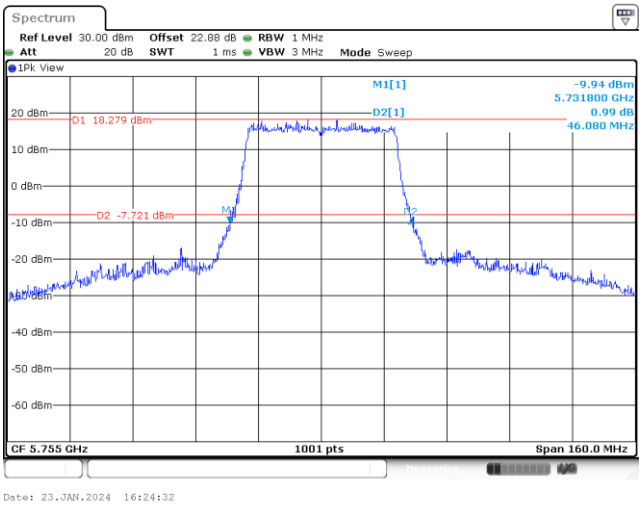
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT20>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**NA**
	

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

802.11be EHT40

6dB Bandwidth	26dB Bandwidth
	
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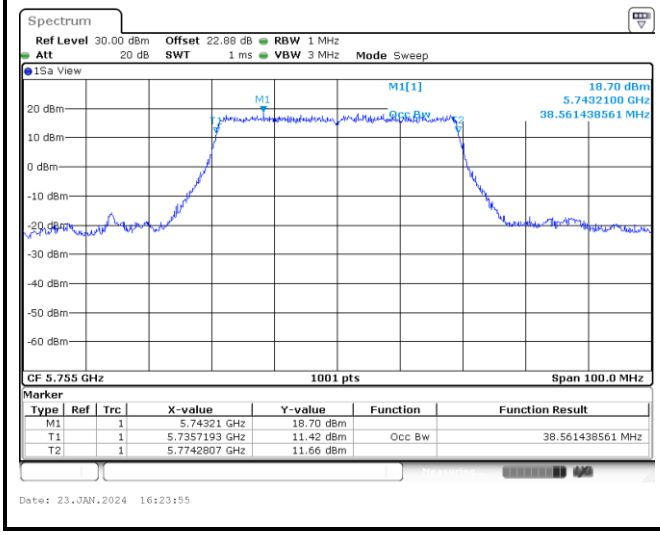
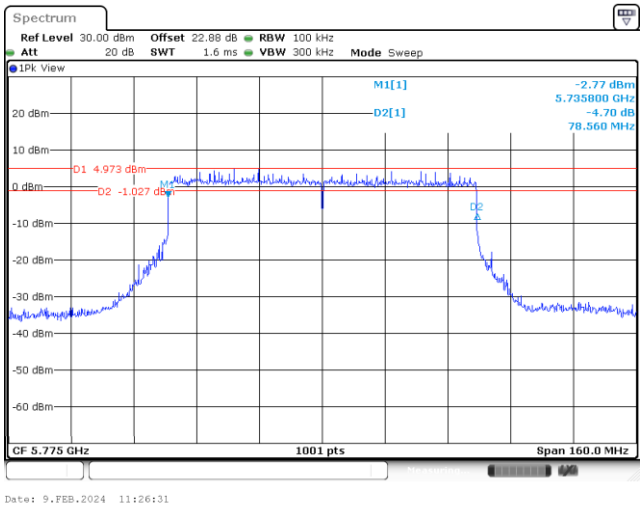
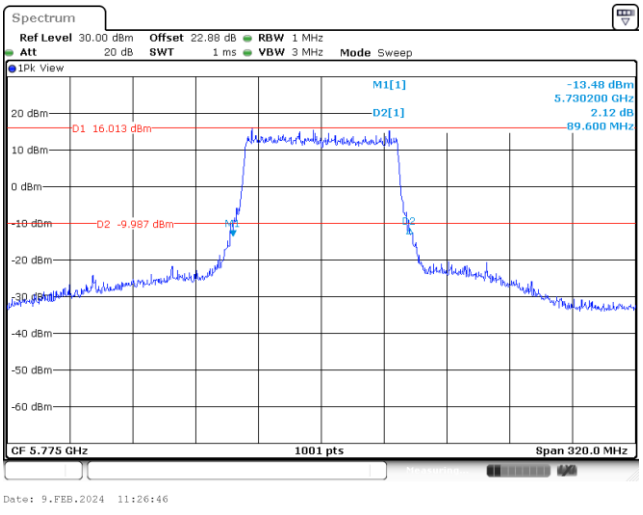
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT80>

6dB Bandwidth	26dB Bandwidth
	
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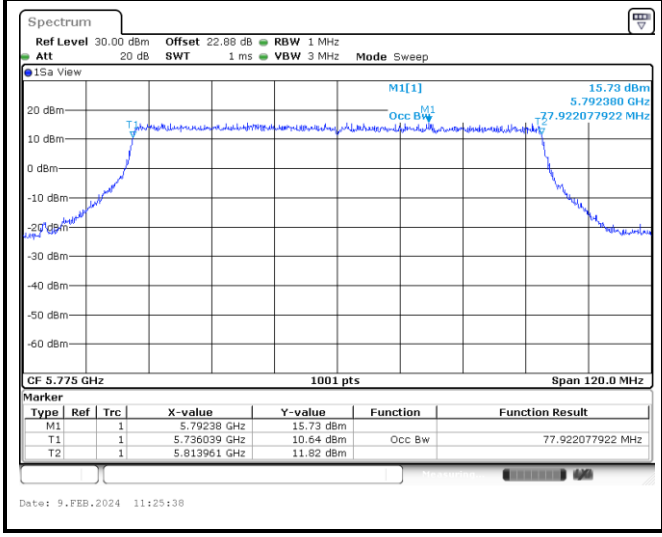
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

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

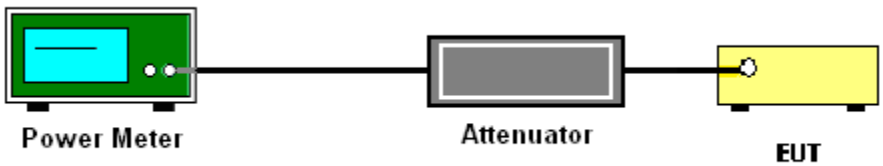
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

 # Method SA-2 #

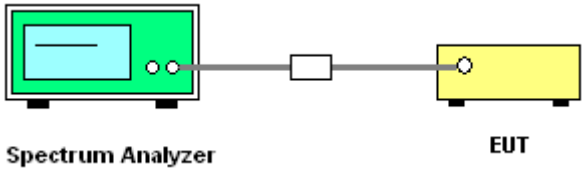
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300kHz.
- Set VBW ≥ 1 MHz.
- Add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
   Method (c): Measure and add 10 log(N_{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_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit.

3.3.4 Test Setup

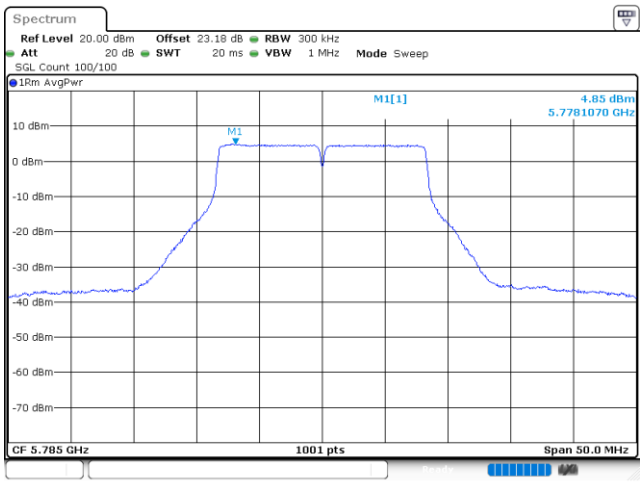
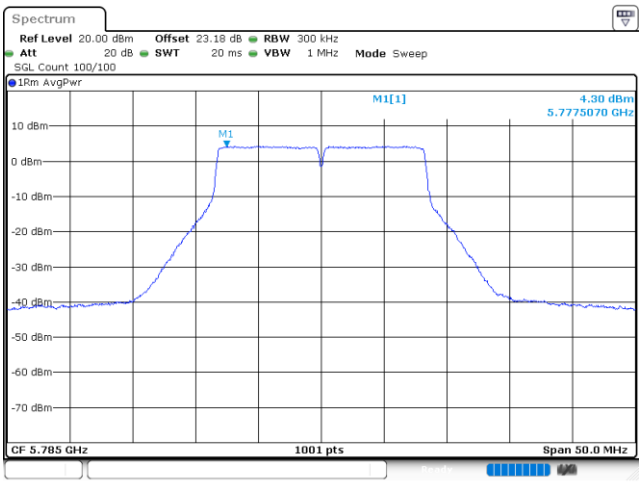


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

MIMO <Ant. 1+3>

<802.11a >

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. 1	**MIMO Ant. 3**
	

<802.11be EHT20>

Maximum Power Density Plot (dBm/3kHz)	
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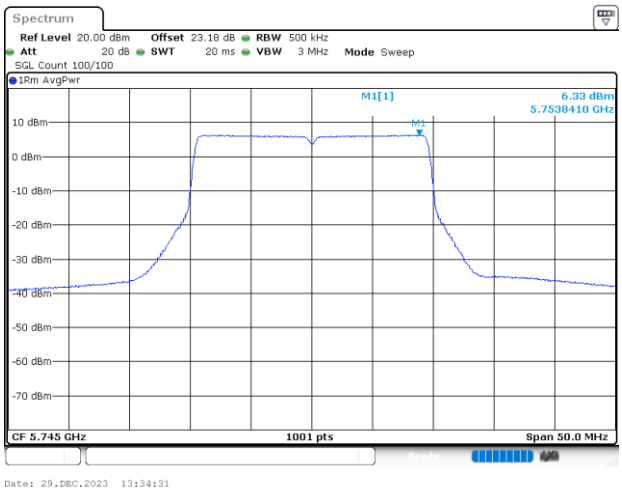	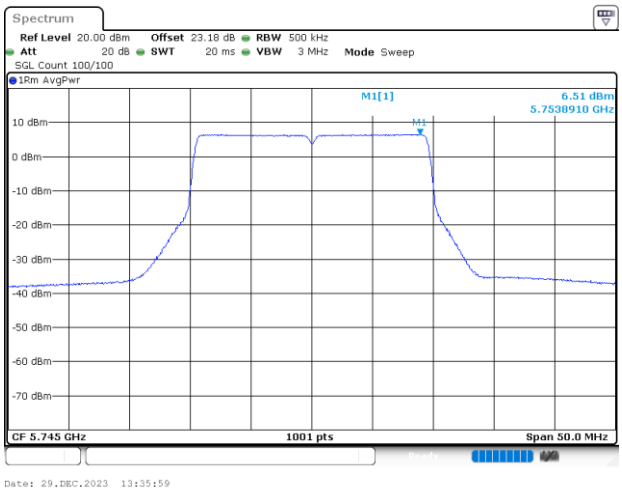

<802.11be EHT40>

Maximum Power Density Plot (dBm/300kHz)	
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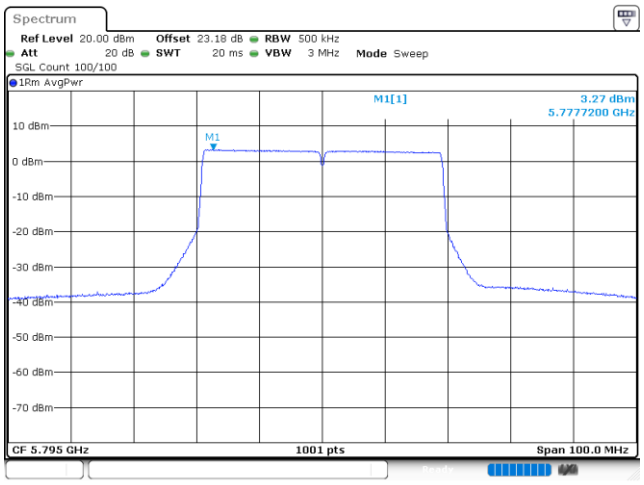	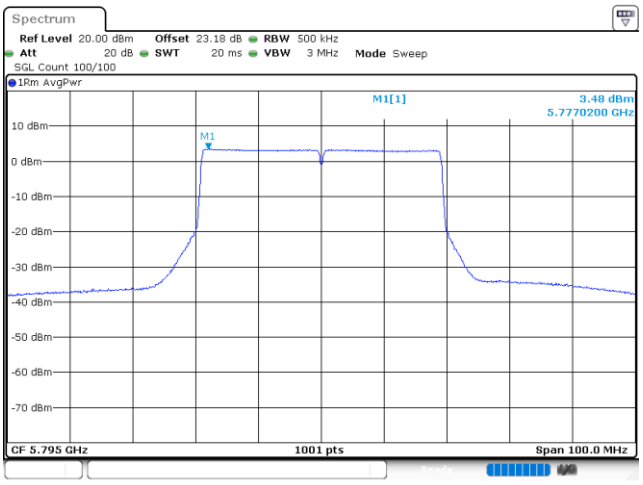

<802.11be EHT80 >

Maximum Power Density Plot (dBm/300kHz)	
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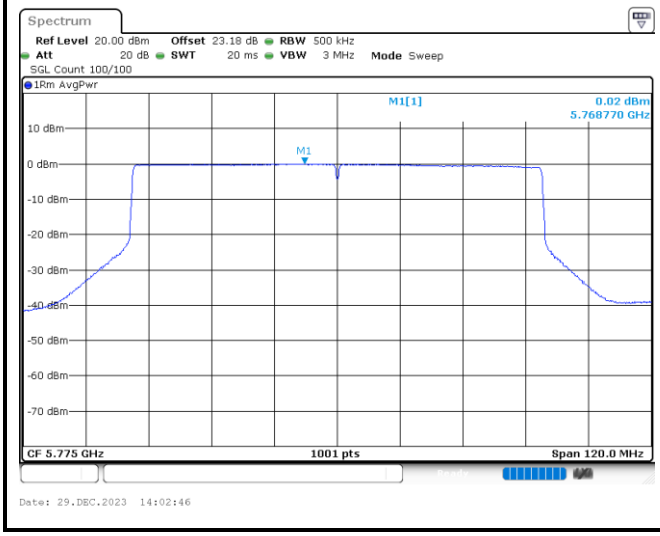	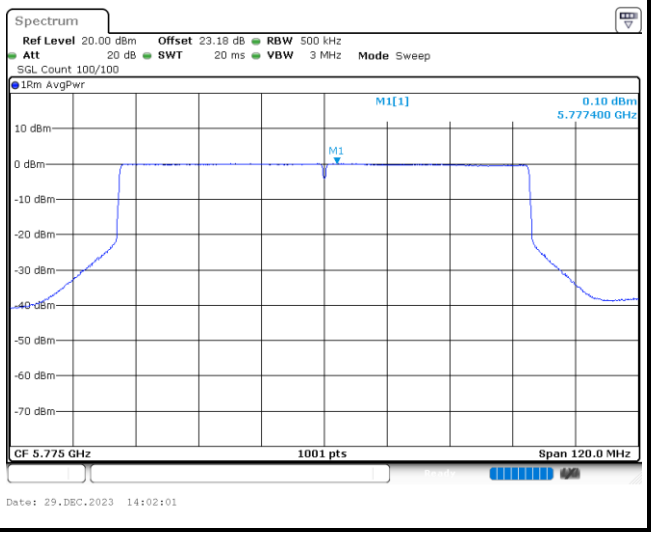

MIMO <Ant. 1+3+4+2>

<802.11a >

Maximum Power Density Plot (dBm/300kHz)	
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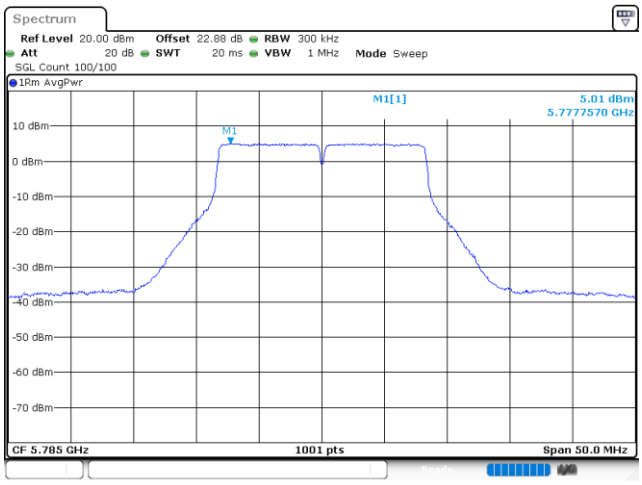
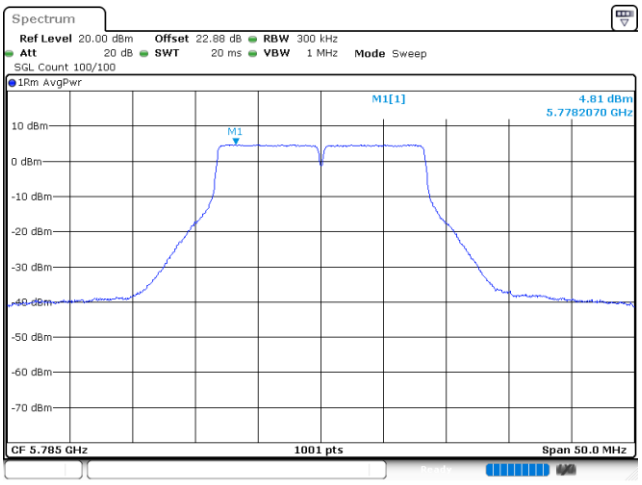
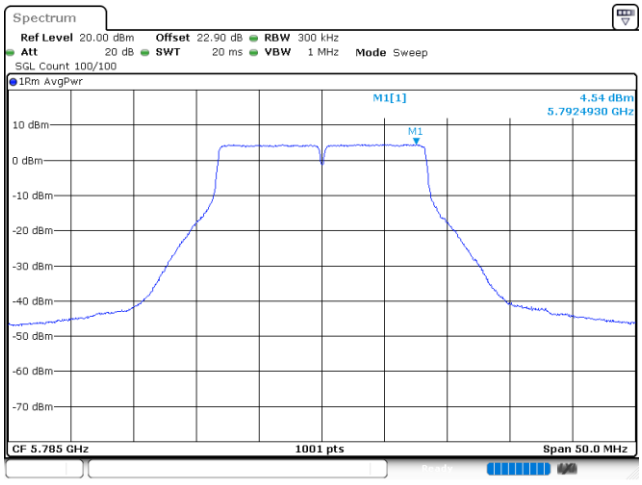
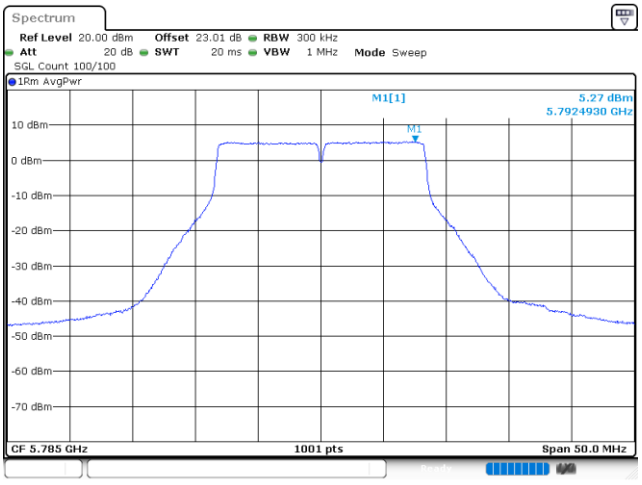
	

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. 3	**MIMO Ant. 4**
	

<802.11be EHT20>

Maximum Power Density Plot (dBm/300kHz)	
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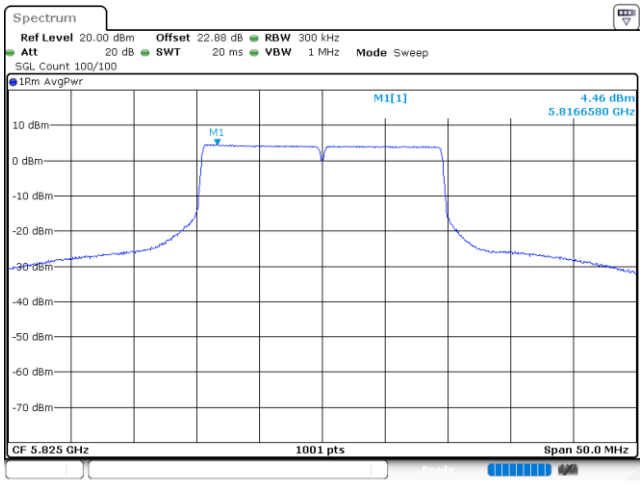
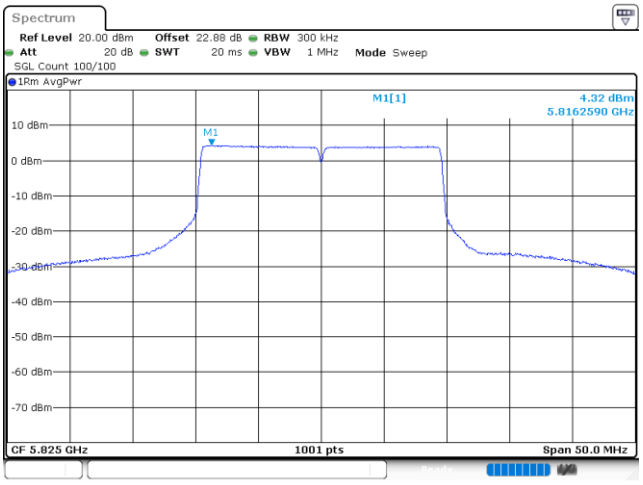
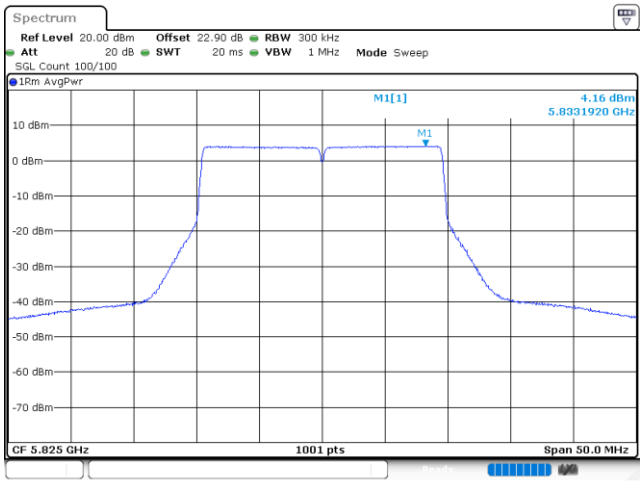
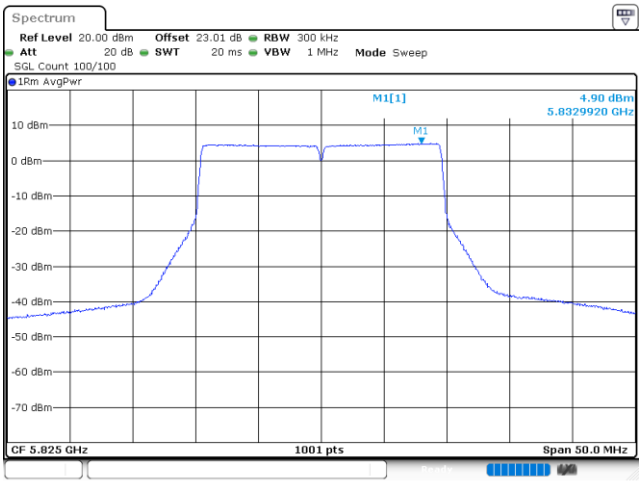
	

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. 3	**MIMO Ant. 4**
	

<802.11be EHT40>

Maximum Power Density Plot (dBm/300kHz)	
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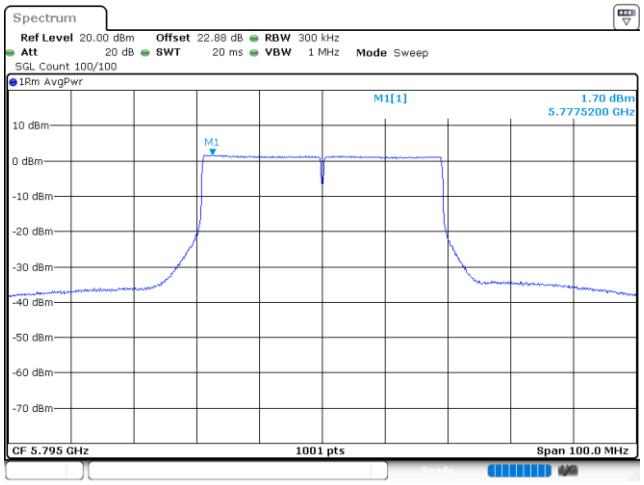	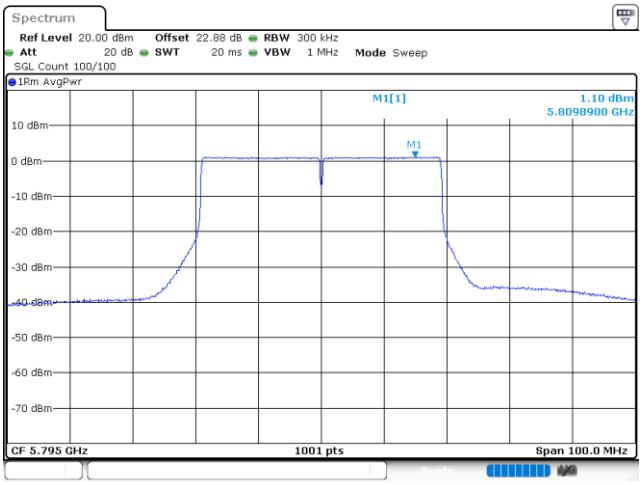

Maximum Power Density Plot (dBm/300kHz)	
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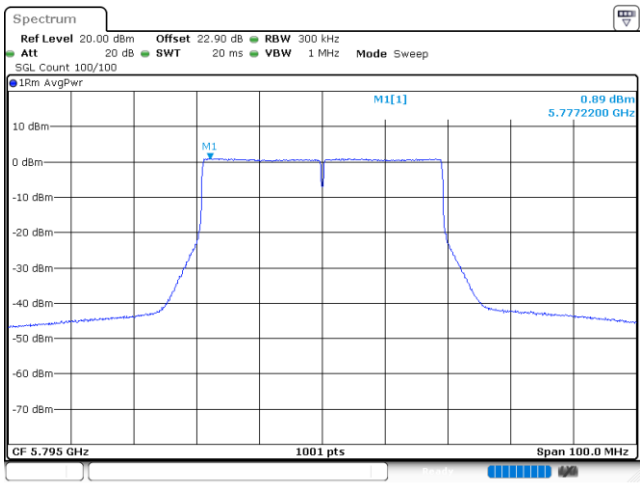	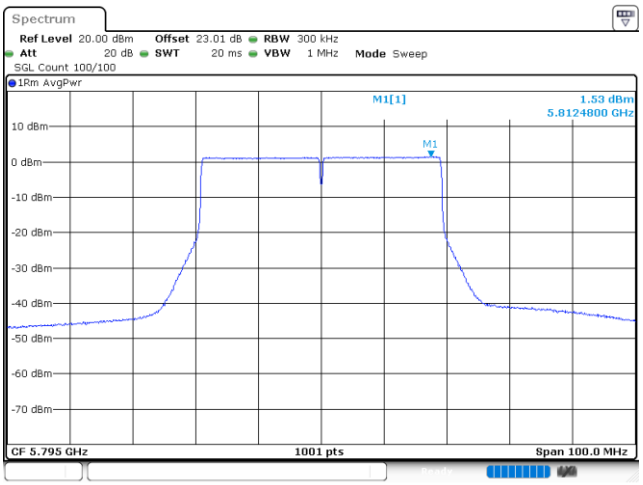

<802.11be EHT80 >

Maximum Power Density Plot (dBm/300kHz)	
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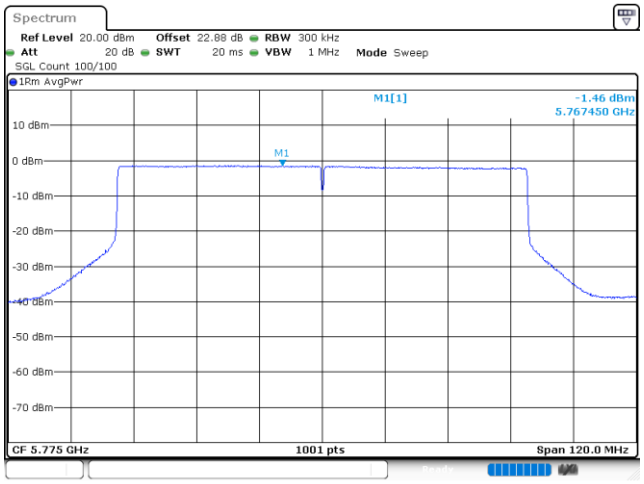
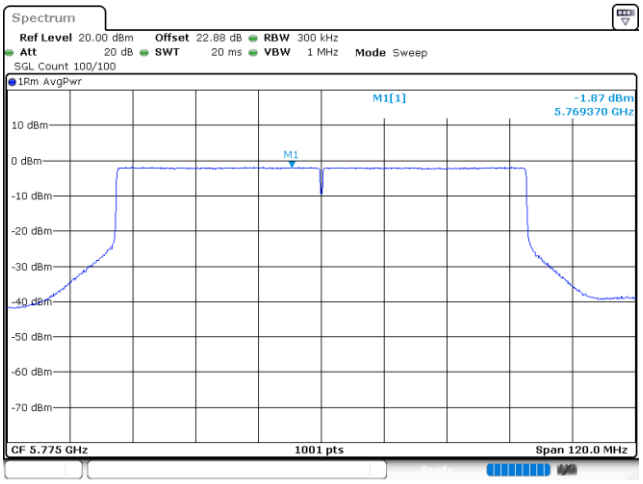
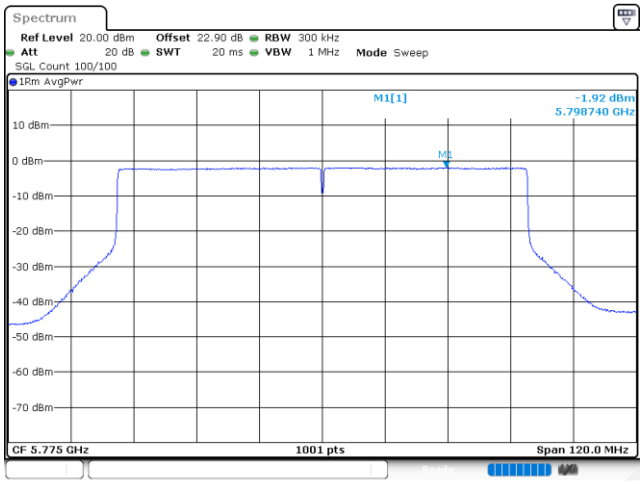
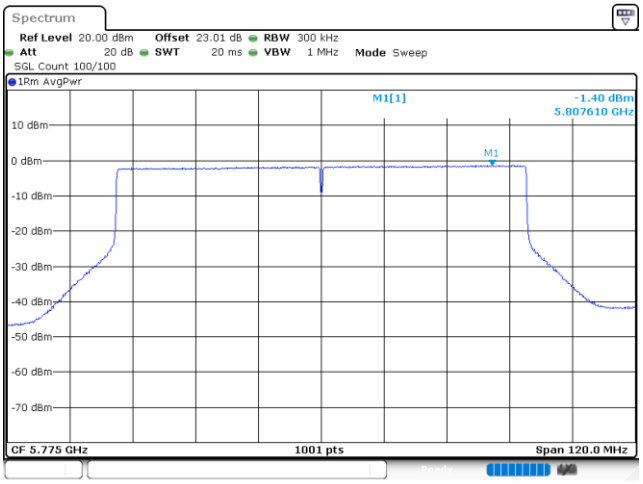
	

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. 3	**MIMO Ant. 4**
	

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.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/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 ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

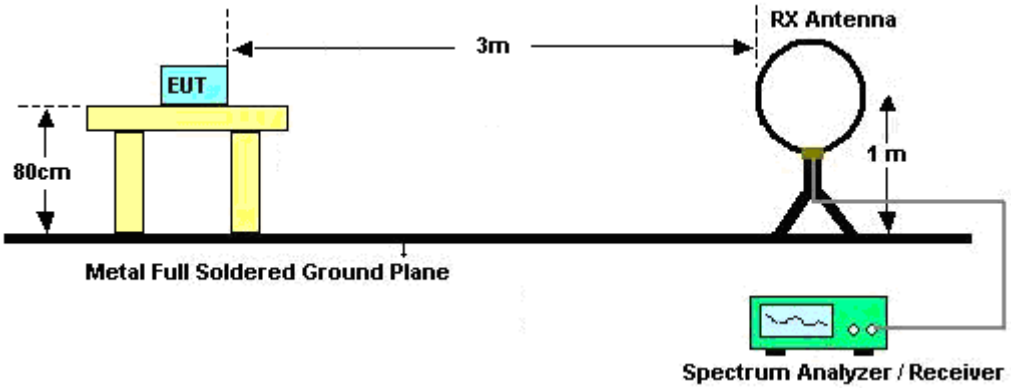
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

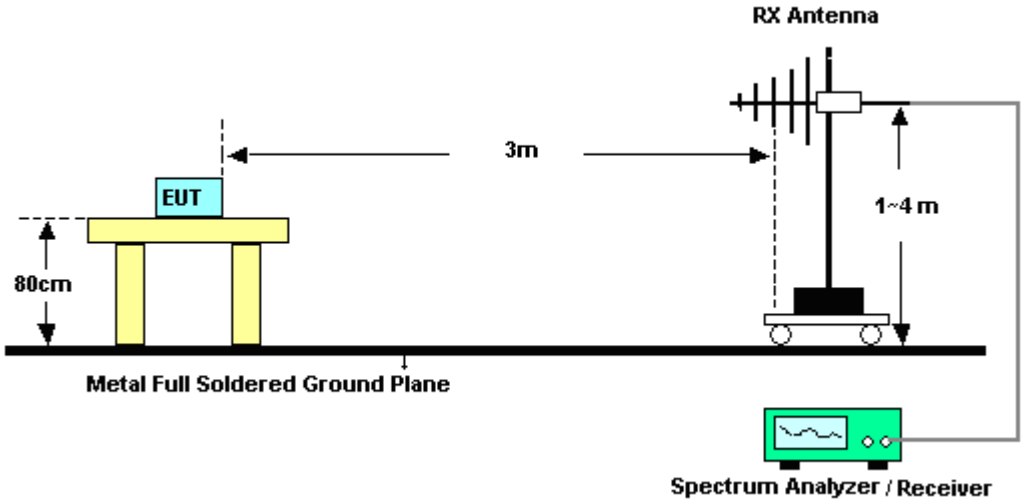
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-"..
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies.
   When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.4.4 Test Setup

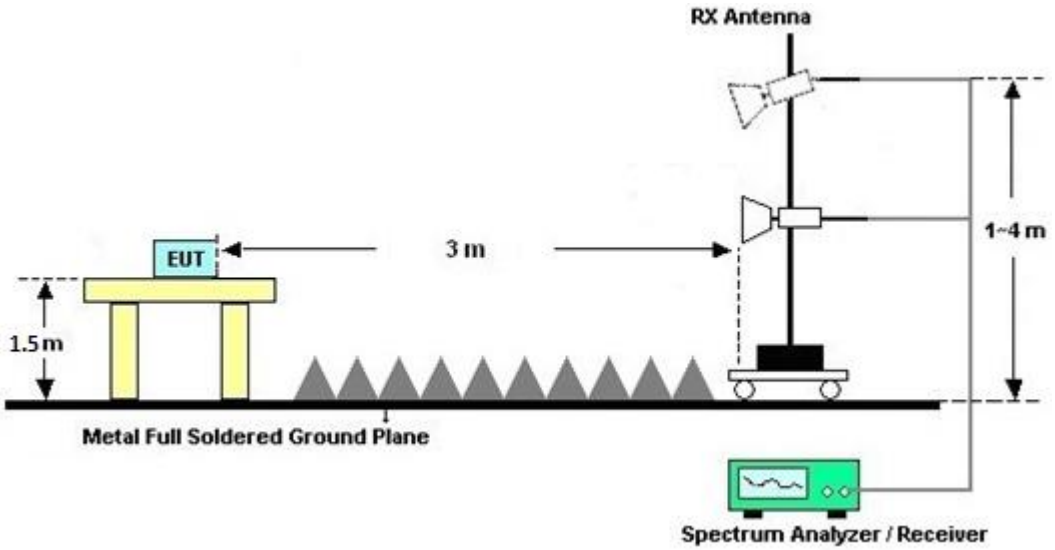
For radiated emissions below 30MHz



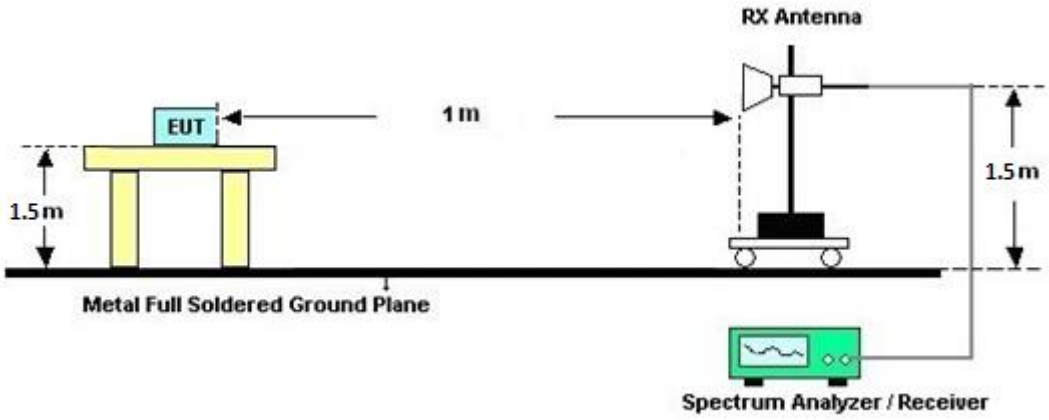
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

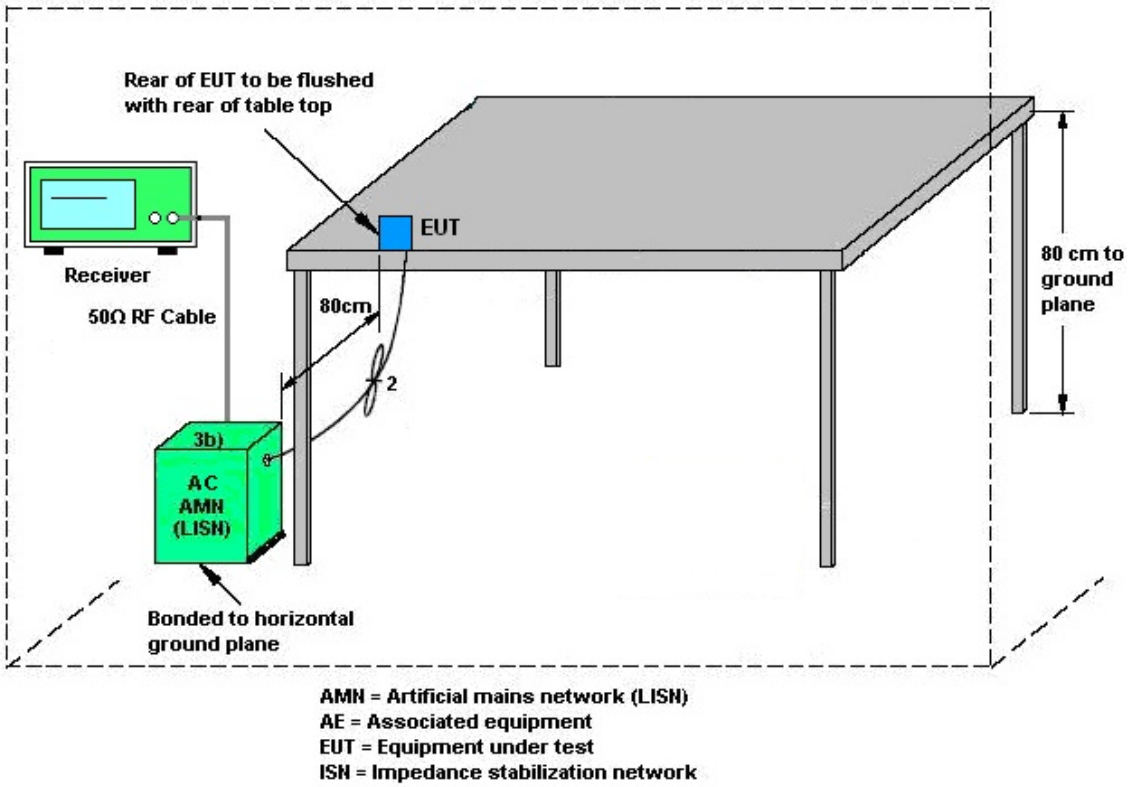
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 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
LISN	TESEQ	NNB51	47415	N/A	Aug. 04, 2023	Jan. 31, 2024	Aug. 03, 2024	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	9kHz~7GHz	May 23, 2023	Jan. 31, 2024	May 22, 2024	Conduction (CO01-CA)
Pulse limiter with 10dB attenuation	R&S	VTSD 9561-F N	9561-F-N00412	N/A	Jun. 05, 2023	Jan. 31, 2024	Jun. 04, 2024	Conduction (CO01-CA)
Test Software	R&S	EMC32 V10.30.0	N/A	N/A	N/A	Jan. 31, 2024	N/A	Conduction (CO01-CA)
Loop Antenna	R&S	HFH2-Z2E	100840	9kHz~30MHz	Jun. 29, 2023	Dec. 08, 2023~ Dec. 18, 2023	Jun. 28, 2024	Radiation (03CH02-CA)
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	Sep. 05, 2023	Dec. 08, 2023~ Dec. 18, 2023	Sep. 04, 2024	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02140	1GHz~18GHz	Jan. 09, 2023	Dec. 08, 2023~ Dec. 18, 2023	Jan. 08, 2024	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA9170	00842	18GHz~40GHz	Aug. 22, 2023	Dec. 08, 2023~ Dec. 18, 2023	Aug. 21 2024	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	May 03, 2023	Dec. 08, 2023~ Dec. 18, 2023	May 02, 2024	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	May 04, 2023	Dec. 08, 2023~ Dec. 18, 2023	May 03, 2024	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18G-56-01-A70	EC1900252	1GHz~18GHz	May 23, 2023	Dec. 08, 2023~ Dec. 18, 2023	May 22, 2024	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060725	18GHz~40GHz	May 04, 2023	Dec. 08, 2023~ Dec. 18, 2023	May 03, 2024	Radiation (03CH02-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	804209/2, 802406/2, 802875/2, 802952/2	N/A	Oct. 13, 2023	Dec. 08, 2023~ Dec. 18, 2023	Oct. 12, 2024	Radiation (03CH02-CA)
High Pass Filter	WOKEN	WFIL-H6500-26500F	WR67BWC4B1	6.5G-26.5G	Jun. 05, 2023	Dec. 08, 2023~ Dec. 18, 2023	Jun. 04, 2024	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-1272-11000-40SS	SN2	1.2GHz Low Pass Filter	Jun. 05, 2023	Dec. 08, 2023~ Dec. 18, 2023	Jun. 04, 2024	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug.30, 2023	Dec. 08, 2023~ Dec. 18, 2023	Aug. 29, 2024	Radiation (03CH02-CA)
Controller	ChainTek	EM-1000	060876	NA	N/A	Dec. 08, 2023~ Dec. 18, 2023	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Dec. 08, 2023~ Dec. 18, 2023	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Dec. 08, 2023~ Dec. 18, 2023	N/A	Radiation (03CH02-CA)
Software	Audix	E3	N/A	N/A	N/A	Dec. 08, 2023~ Dec. 18, 2023	N/A	Radiation (03CH02-CA)
Hygrometer	Testo	608-H1	45141354	N/A	Jul. 26, 2023	Jan. 03, 2024~ Feb. 09, 2024	Jul. 25, 2024	Conducted (TH01-CA)
Power Sensor	Raditeq	RPR3006W#10	RPR6W-2101003	10MHz-8GHz	May 04, 2023	Feb. 07, 2024~ Feb. 09, 2024	May 03, 2024	Conducted (TH01-CA)
Power Sensor	DARE!!	RPR3006W	RPR8W-2301002	10MHz-8GHz	Feb. 08, 2023	Jan. 03, 2024~ Feb. 06, 2024	Feb. 07, 2024	Conducted (TH01-CA)
Switch Box	EM Electronics	EMSW26	1070902	N/A	Oct. 09, 2023	Jan. 03, 2024~ Feb. 09, 2024	Oct. 08, 2024	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101545	10Hz-40GHz	May 03, 2023	Jan. 03, 2024~ Feb. 09, 2024	May 02, 2024	Conducted (TH01-CA)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.7 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.50 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.90 dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Venkata Kondepudi and Vincent Lam	Temperature:	19.4~22.2	°C
Test Date:	2023/12/29~2024/02/08	Relative Humidity:	38.1~67.1	%

<2x2 Mode>

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 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	149	5745	17.18	17.03	22.88	23.20	16.45	16.45	0.5	Pass
11a	6Mbps	2	157	5785	17.13	17.03	23.04	22.64	16.40	16.40	0.5	Pass
11a	6Mbps	2	165	5825	17.13	17.03	23.52	22.56	16.45	16.45	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 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3	
11a	6Mbps	2	149	5745	21.95	21.15	24.58	30.00		2.90		Pass
11a	6Mbps	2	157	5785	22.26	21.72	25.01	30.00		2.90		Pass
11a	6Mbps	2	165	5825	21.56	21.31	24.45	30.00		2.90		Pass
HT20	MCS0	2	149	5745	22.01	22.38	25.21	30.00		2.90		Pass
HT20	MCS0	2	157	5785	22.01	22.07	25.05	30.00		2.90		Pass
HT20	MCS0	2	165	5825	21.41	21.83	24.64	30.00		2.90		Pass
HT40	MCS0	2	151	5755	21.56	21.98	24.79	30.00		2.90		Pass
HT40	MCS0	2	159	5795	21.61	21.72	24.68	30.00		2.90		Pass
VHT20	MCS0	2	149	5745	22.02	22.38	25.21	30.00		2.90		Pass
VHT20	MCS0	2	157	5785	22.02	22.05	25.05	30.00		2.90		Pass
VHT20	MCS0	2	165	5825	21.41	21.81	24.62	30.00		2.90		Pass
VHT40	MCS0	2	151	5755	21.58	21.84	24.72	30.00		2.90		Pass
VHT40	MCS0	2	159	5795	21.40	21.65	24.54	30.00		2.90		Pass
VHT80	MCS0	2	155	5775	21.26	21.31	24.30	30.00		2.90		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3	
11a	6Mbps	2	149	5745	0.04	0.04	2.22		6.63	5.93	9.64	30.00		2.90		Pass
11a	6Mbps	2	157	5785	0.04	0.04	2.22		7.11	6.56	10.12	30.00		2.90		Pass
11a	6Mbps	2	165	5825	0.04	0.04	2.22		6.77	6.02	9.78	30.00		2.90		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 3) + 10 log (n)

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 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3	
HE20	MCS0	2	149	5745	Full	22.03	22.33	25.19	30.00		2.90		Pass
HE20	MCS0	2	157	5785	Full	21.83	21.88	24.87	30.00		2.90		Pass
HE20	MCS0	2	165	5825	Full	21.43	21.81	24.63	30.00		2.90		Pass
HE40	MCS0	2	151	5755	Full	21.66	22.03	24.86	30.00		2.90		Pass
HE40	MCS0	2	159	5795	Full	21.61	21.68	24.66	30.00		2.90		Pass
HE80	MCS0	2	155	5775	Full	21.29	21.28	24.30	30.00		2.90		Pass

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 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3		
EHT20	MCS0	2	149	5745	Full	19.28	19.23	23.44	23.76	19.15	19.15	0.5	Pass
EHT20	MCS0	2	157	5785	Full	19.28	19.28	24.00	23.68	19.20	19.20	0.5	Pass
EHT20	MCS0	2	165	5825	Full	19.28	19.23	22.88	23.52	19.20	19.15	0.5	Pass
EHT40	MCS0	2	151	5755	Full	38.66	38.56	46.40	45.44	38.34	38.43	0.5	Pass
EHT40	MCS0	2	159	5795	Full	39.06	38.66	59.04	46.40	38.43	38.52	0.5	Pass
EHT80	MCS0	2	155	5775	Full	77.80	77.80	90.88	89.60	78.56	78.56	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 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3	
EHT20	MCS0	2	149	5745	Full	22.07	22.38	25.24	30.00		2.90		Pass
EHT20	MCS0	2	157	5785	Full	21.99	22.13	25.07	30.00		2.90		Pass
EHT20	MCS0	2	165	5825	Full	21.62	21.68	24.66	30.00		2.90		Pass
EHT40	MCS0	2	151	5755	Full	21.83	22.20	25.03	30.00		2.90		Pass
EHT40	MCS0	2	159	5795	Full	21.70	21.99	24.86	30.00		2.90		Pass
EHT80	MCS0	2	155	5775	Full	21.62	21.80	24.72	30.00		2.90		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 3	Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3	
EHT20	MCS0	2	149	5745	Full	0.02	0.02	2.22		8.56	8.75	11.76	30.00		2.90		Pass
EHT20	MCS0	2	157	5785	Full	0.02	0.02	2.22		8.53	8.47	11.54	30.00		2.90		Pass
EHT20	MCS0	2	165	5825	Full	0.02	0.02	2.22		8.48	8.43	11.49	30.00		2.90		Pass
EHT40	MCS0	2	151	5755	Full	0.02	0.02	2.22		5.32	5.63	8.64	30.00		2.90		Pass
EHT40	MCS0	2	159	5795	Full	0.02	0.02	2.22		5.50	5.71	8.72	30.00		2.90		Pass
EHT80	MCS0	2	155	5775	Full	0.02	0.02	2.22		2.25	2.33	5.34	30.00		2.90		Pass

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

<4x4 Mode>

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode																		
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
					Ant 1	Ant 3	Ant 4	Ant 2	Ant 1	Ant 3	Ant 4	Ant 2	Ant 1	Ant 3	Ant 4	Ant 2		
11a	6Mbps	4	149	5745	22.72	22.72	23.04	22.64	16.5	16.4	16.50	16.5	17.03	17.08	17.033	17.033	0.5	Pass
11a	6Mbps	4	157	5785	22.96	22.64	23.12	22.72	16.45	16.5	16.40	16.4	17.13	16.98	17.083	16.983	0.5	Pass
11a	6Mbps	4	165	5825	23.44	23.84	23.04	22.48	16.45	16.45	16.45	16.45	17.28	17.13	17.033	17.033	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
					Ant 1	Ant 3	Ant 4	Ant 2	SUM	Ant 1 + 3 + 4 + 2	Ant 1 + 3 + 4 + 2	
11a	6Mbps	4	149	5745	22.78	22.66	22.35	22.51	28.60	30.00	2.90	Pass
11a	6Mbps	4	157	5785	22.74	22.47	22.17	22.69	28.54	30.00	2.90	Pass
11a	6Mbps	4	165	5825	22.53	22.36	22.3	22.42	28.42	30.00	2.90	Pass
HT20	MCS0	4	149	5745	22.88	22.74	22.44	22.52	28.67	30.00	2.90	Pass
HT20	MCS0	4	157	5785	22.59	22.39	22.09	22.60	28.44	30.00	2.90	Pass
HT20	MCS0	4	165	5825	22.36	22.25	22.22	22.45	28.34	30.00	2.90	Pass
HT40	MCS0	4	151	5755	22.47	22.34	22.08	22.11	28.27	30.00	2.90	Pass
HT40	MCS0	4	159	5795	22.10	21.88	21.83	22.07	27.99	30.00	2.90	Pass
VHT20	MCS0	4	149	5745	22.39	22.26	21.9	22.02	28.17	30.00	2.90	Pass
VHT20	MCS0	4	157	5785	22.04	21.82	21.8	22.14	27.97	30.00	2.90	Pass
VHT20	MCS0	4	165	5825	21.99	21.86	21.92	22.04	27.97	30.00	2.90	Pass
VHT40	MCS0	4	151	5755	22.54	22.32	22.03	22.11	28.28	30.00	2.90	Pass
VHT40	MCS0	4	159	5795	22.02	21.80	21.77	22.09	27.94	30.00	2.90	Pass
VHT80	MCS0	4	155	5775	22.47	22.31	22.03	22.22	28.28	30.00	2.90	Pass

Note 1: The device has 4 antennas, each one has polarization which is orthogonal to the other.

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
					Ant 1	Ant 3	Ant 4	Ant 2	SUM	Ant 1 + 3 + 4 + 2	Ant 1 + 3 + 4 + 2	
11a	6Mbps	4	149	5745	5.19	5.07	4.95	5.16	11.21	30.00	5.24	Pass
11a	6Mbps	4	157	5785	5.01	4.81	4.54	5.27	11.29	30.00	5.24	Pass
11a	6Mbps	4	165	5825	5.08	4.81	4.71	5.18	11.20	30.00	5.24	Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2, Ant. 3, Ant. 4) + 10 log (4)

Note 1: The device has 4 antennas, each one has polarization which is orthogonal to the other.

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant 1	Ant 3	Ant 4	Ant 2	SUM	Ant 1 + 3 + 4 + 2	Ant 1 + 3 + 4 + 2	
HE20	MCS0	4	149	5745	Full	22.74	22.73	22.51	22.52	28.65	30.00	2.90	Pass
HE20	MCS0	4	157	5785	Full	22.53	22.39	22.22	22.72	28.49	30.00	2.90	Pass
HE20	MCS0	4	165	5825	Full	22.30	22.22	22.33	22.52	28.36	30.00	2.90	Pass
HE40	MCS0	4	151	5755	Full	22.72	22.52	22.40	22.32	28.51	30.00	2.90	Pass
HE40	MCS0	4	159	5795	Full	22.42	22.05	21.97	22.37	28.23	30.00	2.90	Pass
HE80	MCS0	4	155	5775	Full	22.45	22.29	22.02	22.25	28.28	30.00	2.90	Pass

Note 1: The device has 4 antennas, each one has polarization which is orthogonal to the other.

Report Number : FR231214001C

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode																			
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
						Ant 1	Ant 3	Ant 4	Ant 2	Ant 1	Ant 3	Ant 4	Ant 2	Ant 1	Ant 3	Ant 4	Ant 2		
EHT20	MCS0	4	149	5745	Full	23.68	23.44	23.60	23.84	19.15	19.15	19.05	19.15	19.18	19.23	19.23	19.23	0.5	Pass
EHT20	MCS0	4	157	5785	Full	23.60	23.76	23.92	23.76	19.20	19.15	19.15	19.15	19.23	19.23	19.18	19.23	0.5	Pass
EHT20	MCS0	4	165	5825	Full	25.12	24.48	23.60	23.60	19.15	19.15	19.20	19.20	19.28	19.23	19.18	19.23	0.5	Pass
EHT40	MCS0	4	151	5755	Full	46.08	45.60	46.08	45.28	38.43	38.43	38.25	38.25	38.56	38.66	38.46	38.56	0.5	Pass
EHT40	MCS0	4	159	5795	Full	46.88	45.92	47.04	45.28	38.43	38.52	38.34	38.25	38.66	38.56	38.56	38.56	0.5	Pass
EHT80	MCS0	4	155	5775	Full	89.60	90.88	90.88	89.60	78.56	78.56	78.56	78.56	77.92	77.92	77.80	77.92	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant 1	Ant 3	Ant 4	Ant 2	SUM	Ant 1 + 3 + 4 + 2	Ant 1 + 3 + 4 + 2	
EHT20	MCS0	4	149	5745	Full	22.82	22.81	22.51	22.70	28.73	30.00	2.90	Pass
EHT20	MCS0	4	157	5785	Full	22.62	22.37	22.10	22.83	28.51	30.00	2.90	Pass
EHT20	MCS0	4	165	5825	Full	22.34	22.23	22.22	22.61	28.37	30.00	2.90	Pass
EHT40	MCS0	4	151	5755	Full	22.73	22.54	22.30	22.41	28.52	30.00	2.90	Pass
EHT40	MCS0	4	159	5795	Full	22.44	22.16	21.89	22.36	28.24	30.00	2.90	Pass
EHT80	MCS0	4	155	5775	Full	22.52	22.36	22.11	22.32	28.35	30.00	2.90	Pass

Note 1: The device has 4 antennas, each one has polarization which is orthogonal to the other.

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
						Ant 1	Ant 3	Ant 4	Ant 2	SUM	Ant 1 + 3 + 4 + 2	Ant 1 + 3 + 4 + 2	
EHT20	MCS0	4	149	5745	Full	4.62	4.64	4.22	4.75	10.77	30.00	5.24	Pass
EHT20	MCS0	4	157	5785	Full	4.53	4.20	3.89	4.74	10.76	30.00	5.24	Pass
EHT20	MCS0	4	165	5825	Full	4.46	4.32	4.16	4.90	10.92	30.00	5.24	Pass
EHT40	MCS0	4	151	5755	Full	1.66	1.40	1.27	1.39	7.68	30.00	5.24	Pass
EHT40	MCS0	4	159	5795	Full	1.70	1.10	0.89	1.53	7.72	30.00	5.24	Pass
EHT80	MCS0	4	155	5775	Full	-1.46	-1.87	-1.92	-1.40	4.62	30.00	5.24	Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2, Ant. 3, Ant. 4) + 10 log (4)

Note 1: The device has 4 antennas, each one has polarization which is orthogonal to the other.

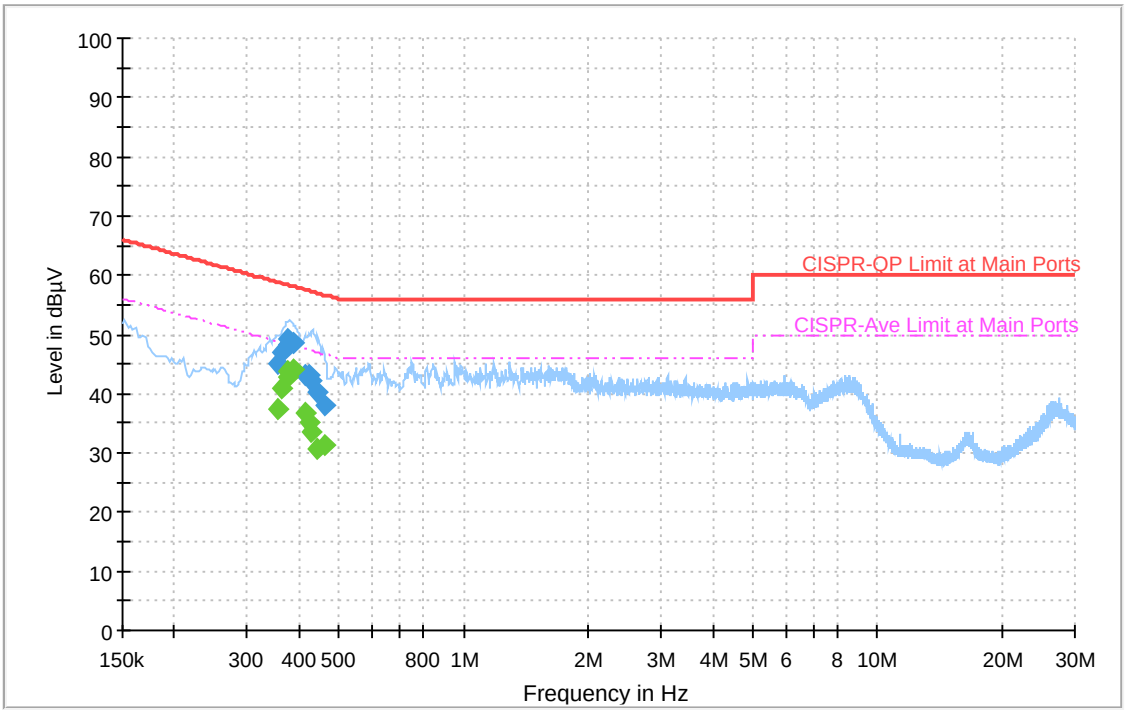
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Yuan Lee	**Temperature :**	20.6~21.2℃
		Relative Humidity :	43.5~46.3%

EUT Information

Test Site Location :	CO01-CA
Project	231214001
Power:	120Vac/60Hz
Mode	2

Full Spectrum



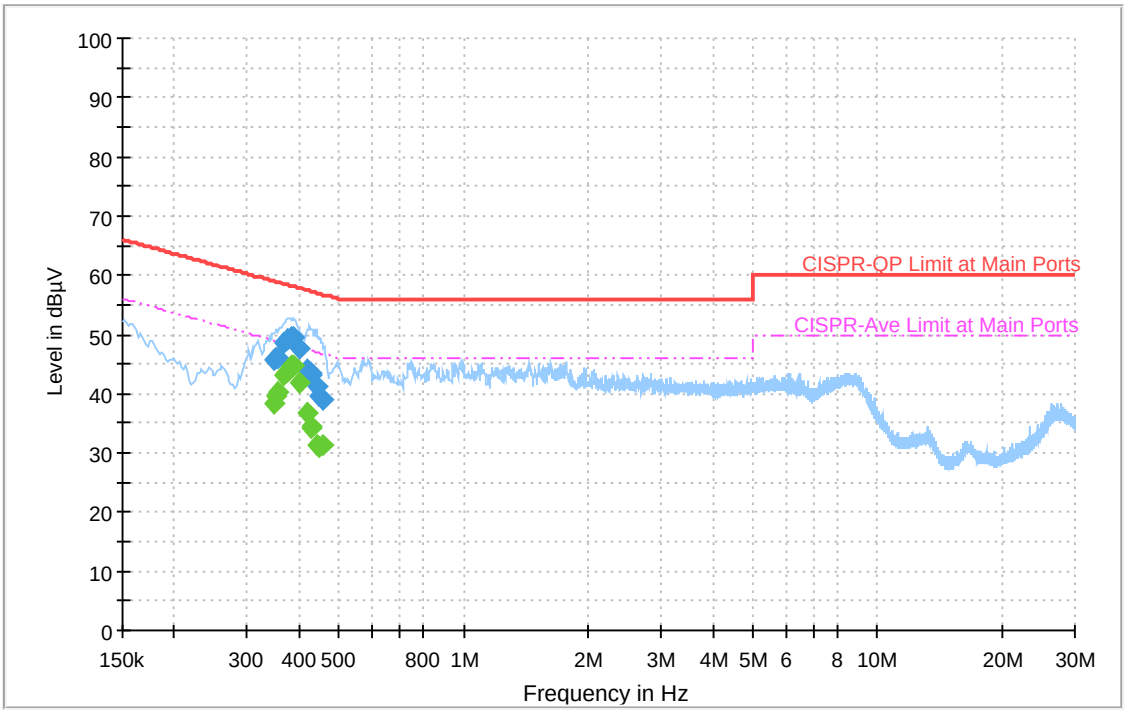
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.356289	---	37.40	48.82	11.41	L1	OFF	20.3
0.356289	45.06	---	58.82	13.75	L1	OFF	20.3
0.365046	---	41.03	48.61	7.58	L1	OFF	20.3
0.365046	46.96	---	58.61	11.65	L1	OFF	20.3
0.375927	---	43.72	48.37	4.65	L1	OFF	20.3
0.375927	49.10	---	58.37	9.27	L1	OFF	20.3
0.377412	---	42.86	48.34	5.48	L1	OFF	20.3
0.377412	48.24	---	58.34	10.10	L1	OFF	20.3
0.389247	---	44.21	48.08	3.87	L1	OFF	20.3
0.389247	48.68	---	58.08	9.40	L1	OFF	20.3
0.414564	---	36.71	47.56	10.85	L1	OFF	20.3
0.414564	43.15	---	57.56	14.41	L1	OFF	20.3
0.421566	---	35.22	47.42	12.20	L1	OFF	20.3
0.421566	43.01	---	57.42	14.41	L1	OFF	20.3
0.428838	---	33.44	47.28	13.84	L1	OFF	20.3
0.428838	42.31	---	57.28	14.97	L1	OFF	20.3
0.441114	---	30.82	47.04	16.22	L1	OFF	20.3
0.441114	40.39	---	57.04	16.65	L1	OFF	20.3
0.459942	---	31.22	46.69	15.47	L1	OFF	20.3
0.459942	38.16	---	56.69	18.53	L1	OFF	20.3

EUT Information

Test Site Location :	CO01-CA
Project	231214001
Power:	120Vac/60Hz
Mode	2

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.348657	---	38.26	48.99	10.73	N	OFF	20.3
0.348657	45.84	---	58.99	13.15	N	OFF	20.3
0.353508	---	39.72	48.88	9.16	N	OFF	20.3
0.353508	45.91	---	58.88	12.97	N	OFF	20.3
0.354894	---	40.34	48.85	8.51	N	OFF	20.3
0.354894	46.14	---	58.85	12.71	N	OFF	20.3
0.368520	---	43.05	48.53	5.48	N	OFF	20.3
0.368520	48.56	---	58.53	9.97	N	OFF	20.3
0.375603	---	43.79	48.38	4.59	N	OFF	20.3
0.375603	49.25	---	58.38	9.13	N	OFF	20.3
0.382776	---	44.62	48.22	3.60	N	OFF	20.3
0.382776	49.47	---	58.22	8.75	N	OFF	20.3
0.388626	---	44.88	48.09	3.21	N	OFF	20.3
0.388626	49.49	---	58.09	8.60	N	OFF	20.3
0.400902	---	41.95	47.84	5.88	N	OFF	20.3
0.400902	47.55	---	57.84	10.28	N	OFF	20.3
0.417948	---	36.72	47.49	10.77	N	OFF	20.3
0.417948	44.22	---	57.49	13.27	N	OFF	20.3
0.426147	---	34.61	47.33	12.72	N	OFF	20.3
0.426147	43.35	---	57.33	13.98	N	OFF	20.3
0.426876	---	34.13	47.31	13.18	N	OFF	20.3

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.426876	43.02	---	57.31	14.29	N	OFF	20.3
0.441681	---	31.31	47.03	15.72	N	OFF	20.3
0.441681	41.16	---	57.03	15.87	N	OFF	20.3
0.445173	---	30.96	46.97	16.00	N	OFF	20.3
0.445173	39.77	---	56.97	17.19	N	OFF	20.3
0.456099	---	31.25	46.76	15.51	N	OFF	20.3
0.456099	38.99	---	56.76	17.77	N	OFF	20.3

Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Fan	Temperature :	17.0~23.5°C
		Relative Humidity :	41.8~64.1%

<2x2 MIMO>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5647.2	57.65	-10.55	68.2	41.35	33.13	12.89	29.72	219	76	P	H
		5699.4	59.86	-44.9	104.76	43.18	33.44	12.94	29.7	219	76	P	H
		5720	71.46	-39.34	110.8	54.62	33.58	12.96	29.7	219	76	P	H
		5724.4	72.33	-48.5	120.83	55.45	33.61	12.97	29.7	219	76	P	H
	*	5745	117.05	-	-	100	33.75	12.99	29.69	219	76	P	H
	*	5745	110.68	-	-	93.63	33.75	12.99	29.69	219	76	A	H
													H
802.11a CH 149 5745MHz													H
		5621.4	57.27	-10.93	68.2	41.07	33.06	12.87	29.73	237	58	P	V
		5699.4	60.86	-43.9	104.76	44.18	33.44	12.94	29.7	237	58	P	V
		5717	72.99	-36.97	109.96	56.17	33.56	12.96	29.7	237	58	P	V
		5723	76.31	-41.33	117.64	59.44	33.6	12.97	29.7	237	58	P	V
	*	5745	119.7	-	-	102.65	33.75	12.99	29.69	237	58	P	V
	*	5745	112.96	-	-	95.91	33.75	12.99	29.69	237	58	A	V
													V
													V

WIFI Ant. 1+3	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)
		5616.2	57.17	-11.03	68.2	40.98	33.05	12.87	29.73	216	71	P	H
		5679.2	57.21	-32.64	89.85	40.67	33.32	12.93	29.71	216	71	P	H
		5713.2	56.93	-51.97	108.9	40.14	33.53	12.96	29.7	216	71	P	H
		5723.4	57.27	-61.28	118.55	40.4	33.6	12.97	29.7	216	71	P	H
	*	5785	117.99	-	-	100.7	33.95	13.03	29.69	216	71	P	H
	*	5785	110.78	-	-	93.49	33.95	13.03	29.69	216	71	A	H
		5852.2	58.1	-59.08	117.18	40.48	34.22	13.09	29.69	216	71	P	H
		5859	57.61	-52.07	109.68	39.97	34.23	13.1	29.69	216	71	P	H
		5878.2	58.02	-44.8	102.82	40.36	34.25	13.12	29.71	216	71	P	H
		5945.8	59.02	-9.18	68.2	41.36	34.22	13.19	29.75	216	71	P	H
													H
802.11a CH 157 5785MHz													H
		5647.6	56.77	-11.43	68.2	40.46	33.13	12.9	29.72	222	61	P	V
		5666.2	57.82	-22.4	80.22	41.38	33.24	12.91	29.71	222	61	P	V
		5700.8	57.62	-47.8	105.42	40.92	33.45	12.95	29.7	222	61	P	V
		5724.8	58.35	-63.39	121.74	41.47	33.61	12.97	29.7	222	61	P	V
	*	5785	119.02	-	-	101.73	33.95	13.03	29.69	222	61	P	V
	*	5785	112.13	-	-	94.84	33.95	13.03	29.69	222	61	A	V
		5850.6	58.35	-62.48	120.83	40.73	34.22	13.09	29.69	222	61	P	V
		5859.4	58.55	-51.02	109.57	40.91	34.23	13.1	29.69	222	61	P	V
		5911	57.16	-21.37	78.53	39.47	34.26	13.16	29.73	222	61	P	V
		5931.6	57.39	-10.81	68.2	39.71	34.24	13.18	29.74	222	61	P	V
													V
													V

WIFI Ant. 1+3	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)
	*	5825	117.71	-	-	100.21	34.12	13.07	29.69	224	63	P	H
	*	5825	111.49	-	-	93.99	34.12	13.07	29.69	224	63	A	H
		5852.4	77.72	-39.01	116.73	60.09	34.22	13.1	29.69	224	63	P	H
		5856.6	72.28	-38.07	110.35	54.64	34.23	13.1	29.69	224	63	P	H
		5877.6	58.76	-44.51	103.27	41.09	34.25	13.12	29.7	224	63	P	H
		5946.8	57.61	-10.59	68.2	39.95	34.22	13.19	29.75	224	63	P	H
													H
802.11a													H
CH 165	*	5825	119.86	-	-	102.36	34.12	13.07	29.69	230	58	P	V
5825MHz	*	5825	112.26	-	-	94.76	34.12	13.07	29.69	230	58	A	V
		5851.8	78.78	-39.32	118.1	61.16	34.22	13.09	29.69	230	58	P	V
		5856.8	76.71	-33.59	110.3	59.07	34.23	13.1	29.69	230	58	P	V
		5875	60.11	-45.09	105.2	42.44	34.25	13.12	29.7	230	58	P	V
		5945.4	57.32	-10.88	68.2	39.66	34.22	13.19	29.75	230	58	P	V
													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 802.11a (Harmonic @ 3m)

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	47.97	-26.03	74	57.22	38.96	18.49	66.7	-	-	P	H
		17235	50.54	-17.66	68.2	56.57	38.36	23.04	67.43	201	354	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	47.6	-26.4	74	56.85	38.96	18.49	66.7	-	-	P	V
		17235	49.94	-18.26	68.2	55.97	38.36	23.04	67.43	304	127	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11570	46.61	-27.39	74	55.86	38.87	18.55	66.67	-	-	P	H
		17355	49.47	-18.73	68.2	55.35	38.81	23.15	67.84	237	162	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 157 5785MHz													H
		11570	48.3	-25.7	74	57.55	38.87	18.55	66.67	100	158	P	V
		11570	38.3	-15.7	54	47.55	38.87	18.55	66.67	100	158	A	V
		17355	51.03	-17.17	68.2	56.91	38.81	23.15	67.84	307	145	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

WIFI Ant. 1+3	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)
		11650	47.12	-26.88	74	56.51	38.77	18.61	66.77	-	-	P	H
		17475	50.15	-18.05	68.2	56.29	39.19	23.26	68.59	217	344	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 165 5825MHz													H
		11650	47.62	-26.38	74	57.01	38.77	18.61	66.77	-	-	P	V
		17475	50.63	-17.57	68.2	56.77	39.19	23.26	68.59	274	103	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Band 4 5725~5850MHz

WIFI 802.11be EHT20_Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5621.4	57.95	-10.25	68.2	41.75	33.06	12.87	29.73	205	76	P	H
		5698.4	62.46	-41.56	104.02	45.79	33.43	12.94	29.7	205	76	P	H
		5719	74.99	-35.53	110.52	58.16	33.57	12.96	29.7	205	76	P	H
		5720.8	74.67	-37.95	112.62	57.83	33.58	12.96	29.7	205	76	P	H
	*	5745	118.99	-	-	101.94	33.75	12.99	29.69	205	76	P	H
	*	5745	110.5	-	-	93.45	33.75	12.99	29.69	205	76	A	H
802.11be													H
EHT20 Full													H
CH 149		5634	57.66	-10.54	68.2	41.4	33.1	12.88	29.72	236	59	P	V
5745MHz		5699.6	65.36	-39.55	104.91	48.68	33.44	12.94	29.7	236	59	P	V
		5719.8	76.99	-33.75	110.74	60.16	33.57	12.96	29.7	236	59	P	V
		5723.6	79.32	-39.69	119.01	62.45	33.6	12.97	29.7	236	59	P	V
	*	5745	121.16	-	-	104.11	33.75	12.99	29.69	236	59	P	V
	*	5745	113.09	-	-	96.04	33.75	12.99	29.69	236	59	A	V
													V
													V

WIFI Ant. 1+3	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)
		5648.4	56.3	-11.9	68.2	39.98	33.14	12.9	29.72	219	69	P	H
		5692.6	57.4	-42.34	99.74	40.76	33.4	12.94	29.7	219	69	P	H
		5720	58.31	-52.49	110.8	41.47	33.58	12.96	29.7	219	69	P	H
		5720.6	58.02	-54.15	112.17	41.18	33.58	12.96	29.7	219	69	P	H
	*	5785	119.32	-	-	102.03	33.95	13.03	29.69	219	69	P	H
	*	5785	110.89	-	-	93.6	33.95	13.03	29.69	219	69	A	H
		5852.8	58.07	-57.75	115.82	40.44	34.22	13.1	29.69	219	69	P	H
		5861	58.19	-50.93	109.12	40.55	34.23	13.1	29.69	219	69	P	H
		5904.8	57.48	-25.63	83.11	39.78	34.27	13.15	29.72	219	69	P	H
		5949	57.64	-10.56	68.2	39.97	34.22	13.2	29.75	219	69	P	H
802.11be													H
EHT20 Full													H
CH 157		5627	57.5	-10.7	68.2	41.26	33.08	12.88	29.72	222	60	P	V
5785MHz		5669.8	57.7	-25.19	82.89	41.23	33.26	12.92	29.71	222	60	P	V
		5719	58.36	-52.16	110.52	41.53	33.57	12.96	29.7	222	60	P	V
		5725	58.03	-64.17	122.2	41.15	33.61	12.97	29.7	222	60	P	V
	*	5785	119.68	-	-	102.39	33.95	13.03	29.69	222	60	P	V
	*	5785	111.65	-	-	94.36	33.95	13.03	29.69	222	60	A	V
		5851.2	58.39	-61.07	119.46	40.77	34.22	13.09	29.69	222	60	P	V
		5868.6	58.46	-48.53	106.99	40.81	34.24	13.11	29.7	222	60	P	V
		5913.8	58.49	-17.97	76.46	40.8	34.26	13.16	29.73	222	60	P	V
		5933.2	57.89	-10.31	68.2	40.21	34.24	13.18	29.74	222	60	P	V
													V
													V

WIFI Ant. 1+3	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)
	*	5825	118.15	-	-	100.65	34.12	13.07	29.69	211	72	P	H
	*	5825	110.59	-	-	93.09	34.12	13.07	29.69	211	72	A	H
		5851.2	76.72	-42.74	119.46	59.1	34.22	13.09	29.69	211	72	P	H
		5855.2	75.81	-34.93	110.74	58.17	34.23	13.1	29.69	211	72	P	H
		5879.6	60.5	-41.28	101.78	42.84	34.25	13.12	29.71	211	72	P	H
		5949.6	57.89	-10.31	68.2	40.22	34.22	13.2	29.75	211	72	P	H
802.11be													H
EHT20 Full													H
CH 165	*	5825	120.72	-	-	103.22	34.12	13.07	29.69	189	57	P	V
5825MHz	*	5825	111.65	-	-	94.15	34.12	13.07	29.69	189	57	A	V
		5850	82.14	-40.06	122.2	64.52	34.22	13.09	29.69	189	57	P	V
		5855.8	77.25	-33.33	110.58	59.61	34.23	13.1	29.69	189	57	P	V
		5877.4	59.87	-43.55	103.42	42.2	34.25	13.12	29.7	189	57	P	V
		5927.6	57.63	-10.57	68.2	39.96	34.24	13.17	29.74	189	57	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 802.11be EHT20 Full (Harmonic @ 3m)

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	47.62	-26.38	74	56.87	38.96	18.49	66.7	-	-	P	H
		17235	52.73	-15.47	68.2	58.76	38.36	23.04	67.43	349	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT20 Full													H
CH 149		11490	47.92	-26.08	74	57.17	38.96	18.49	66.7	-	-	P	V
5745MHz		17235	53.42	-14.78	68.2	59.45	38.36	23.04	67.43	357	77	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11570	47.21	-26.79	74	56.46	38.87	18.55	66.67	-	-	P	H
		17355	50.03	-18.17	68.2	55.91	38.81	23.15	67.84	237	165	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT20 Full													H
CH 157		11570	47.32	-26.68	74	56.57	38.87	18.55	66.67	-	-	P	V
5785MHz		17355	50.1	-18.1	68.2	55.98	38.81	23.15	67.84	235	124	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

WIFI Ant. 1+3	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)
		11650	47.82	-26.18	74	57.21	38.77	18.61	66.77	-	-	P	H
		17475	50.57	-17.63	68.2	56.71	39.19	23.26	68.59	334	275	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT20 Full													H
CH 165		11650	47.97	-26.03	74	57.36	38.77	18.61	66.77	-	-	P	V
5825MHz		17475	49.57	-18.63	68.2	55.71	39.19	23.26	68.59	387	165	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 4 5725~5850MHz

WIFI 802.11be EHT40_Full (Band Edge @ 3m)

WIFI Ant. 1+3	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)
		5643.4	56.95	-11.25	68.2	40.66	33.12	12.89	29.72	216	76	P	H
		5698.8	69.77	-34.55	104.32	53.1	33.43	12.94	29.7	216	76	P	H
		5718.8	73.67	-36.79	110.46	56.84	33.57	12.96	29.7	216	76	P	H
		5721.4	69.9	-44.09	113.99	53.04	33.59	12.97	29.7	216	76	P	H
	*	5755	115.47	-	-	98.36	33.8	13	29.69	216	76	P	H
	*	5755	107.26	-	-	90.15	33.8	13	29.69	216	76	A	H
		5852.4	59.41	-57.32	116.73	41.78	34.22	13.1	29.69	216	76	P	H
		5858	58.24	-51.72	109.96	40.6	34.23	13.1	29.69	216	76	P	H
		5883.8	57.43	-41.24	98.67	39.76	34.25	13.13	29.71	216	76	P	H
		5945.6	57.54	-10.66	68.2	39.88	34.22	13.19	29.75	216	76	P	H
802.11be													H
EHT40 Full													H
CH 151		5628.8	58.18	-10.02	68.2	41.94	33.08	12.88	29.72	314	63	P	V
5755MHz		5698.8	72.24	-32.08	104.32	55.57	33.43	12.94	29.7	314	63	P	V
		5719.8	77.28	-33.46	110.74	60.45	33.57	12.96	29.7	314	63	P	V
		5720	76.87	-33.93	110.8	60.03	33.58	12.96	29.7	314	63	P	V
	*	5755	115.07	-	-	97.96	33.8	13	29.69	314	63	P	V
	*	5755	108.09	-	-	90.98	33.8	13	29.69	314	63	A	V
		5853.2	58.93	-55.97	114.9	41.3	34.22	13.1	29.69	314	63	P	V
		5859	59.15	-50.53	109.68	41.51	34.23	13.1	29.69	314	63	P	V
		5886.6	57.83	-38.76	96.59	40.15	34.26	13.13	29.71	314	63	P	V
		5940.8	57.51	-10.69	68.2	39.84	34.23	13.19	29.75	314	63	P	V
													V
													V

WIFI Ant. 1+3	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)
		5621	57.52	-10.68	68.2	41.32	33.06	12.87	29.73	214	73	P	H
		5698.4	58.49	-45.53	104.02	41.82	33.43	12.94	29.7	214	73	P	H
		5714.8	64.78	-44.57	109.35	47.98	33.54	12.96	29.7	214	73	P	H
		5723	67.33	-50.31	117.64	50.46	33.6	12.97	29.7	214	73	P	H
	*	5795	115.34	-	-	97.99	34	13.04	29.69	214	73	P	H
	*	5795	107.78	-	-	90.43	34	13.04	29.69	214	73	A	H
		5850.2	73.89	-47.85	121.74	56.27	34.22	13.09	29.69	214	73	P	H
		5855.8	68.71	-41.87	110.58	51.07	34.23	13.1	29.69	214	73	P	H
		5880.8	64.48	-36.41	100.89	46.82	34.25	13.12	29.71	214	73	P	H
		5930.8	57.33	-10.87	68.2	39.65	34.24	13.18	29.74	214	73	P	H
802.11be													H
EHT40 Full													H
CH 159		5638	56.4	-11.8	68.2	40.12	33.11	12.89	29.72	275	62	P	V
5795MHz		5698.2	58.12	-45.75	103.87	41.45	33.43	12.94	29.7	275	62	P	V
		5718.8	66.69	-43.77	110.46	49.86	33.57	12.96	29.7	275	62	P	V
		5725	71.32	-50.88	122.2	54.44	33.61	12.97	29.7	275	62	P	V
	*	5795	115.88	-	-	98.53	34	13.04	29.69	275	62	P	V
	*	5795	108.36	-	-	91.01	34	13.04	29.69	275	62	A	V
		5851	76.3	-43.62	119.92	58.68	34.22	13.09	29.69	275	62	P	V
		5855.6	72.38	-38.25	110.63	54.74	34.23	13.1	29.69	275	62	P	V
		5879.6	66.76	-35.02	101.78	49.1	34.25	13.12	29.71	275	62	P	V
		5949.4	56.6	-11.6	68.2	38.93	34.22	13.2	29.75	275	62	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 802.11be EHT40_Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		11510	47.41	-26.59	74	56.64	38.93	18.5	66.66	-	-	P	H
		17263	49.29	-18.91	68.2	55.19	38.46	23.07	67.43	278	193	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT40 Full													H
CH 151		11510	47.36	-26.64	74	56.59	38.93	18.5	66.66	-	-	P	V
5755MHz		17265	48.78	-19.42	68.2	54.68	38.47	23.07	67.44	221	217	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11590	47.84	-26.16	74	57.15	38.84	18.57	66.72	-	-	P	H
		17385	49.87	-18.33	68.2	55.92	38.9	23.18	68.13	267	135	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT40 Full													H
CH 159		11590	47.06	-26.94	74	56.37	38.84	18.57	66.72	-	-	P	V
5795MHz		17385	50.83	-17.37	68.2	56.88	38.9	23.18	68.13	374	348	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 4 5725~5850MHz

WIFI 802.11be EHT80_Full (Band Edge @ 3m)

WIFI Ant. 1+3	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	67.03	-1.17	68.2	50.71	33.14	12.9	29.72	216	76	P	H
		5698.6	70.96	-33.21	104.17	54.29	33.43	12.94	29.7	216	76	P	H
		5712.4	70.98	-37.69	108.67	54.2	33.52	12.96	29.7	216	76	P	H
		5724	77.9	-42.02	119.92	61.03	33.6	12.97	29.7	216	76	P	H
	*	5775	112.17	-	-	94.94	33.9	13.02	29.69	216	76	P	H
	*	5775	104.21	-	-	86.98	33.9	13.02	29.69	216	76	A	H
		5854.2	72.84	-39.78	112.62	55.21	34.22	13.1	29.69	216	76	P	H
		5857.2	72.99	-37.19	110.18	55.35	34.23	13.1	29.69	216	76	P	H
		5877.4	69.74	-33.68	103.42	52.07	34.25	13.12	29.7	216	76	P	H
		5932.6	57.28	-10.92	68.2	39.6	34.24	13.18	29.74	216	76	P	H
802.11be													H
EHT80 Full													H
CH 155		5639	67.97	-0.23	68.2	51.69	33.11	12.89	29.72	179	62	P	V
5775MHz		5681.2	74.08	-17.25	91.33	57.53	33.33	12.93	29.71	179	62	P	V
		5719.6	76.78	-33.91	110.69	59.95	33.57	12.96	29.7	179	62	P	V
		5723.8	79.38	-40.08	119.46	62.51	33.6	12.97	29.7	179	62	P	V
	*	5775	115.86	-	-	98.63	33.9	13.02	29.69	179	62	P	V
	*	5775	106.49	-	-	89.26	33.9	13.02	29.69	179	62	A	V
		5852.6	76.09	-40.18	116.27	58.46	34.22	13.1	29.69	179	62	P	V
		5855.8	76.02	-34.56	110.58	58.38	34.23	13.1	29.69	179	62	P	V
		5876.8	69.77	-34.09	103.86	52.1	34.25	13.12	29.7	179	62	P	V
		5927.4	57.1	-11.1	68.2	39.43	34.24	13.17	29.74	179	62	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 802.11be EHT80_Full (Harmonic @ 3m)

WIFI Ant. 1+3	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)
		11550	47.51	-26.49	74	56.71	38.9	18.53	66.63	-	-	P	H
		17325	51.59	-16.61	68.2	57.41	38.71	23.12	67.65	326	107	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT80 Full													H
CH 155		11550	47.98	-26.02	74	57.18	38.9	18.53	66.63	-	-	P	V
5775MHz		17325	50.13	-18.07	68.2	55.95	38.71	23.12	67.65	229	231	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission above 18GHz

5GHz WIFI 802.11be EHT80 Full (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be EHT80 Full SHF		23100	45.15	-28.85	74	39.67	39.03	16.67	50.22	-	-	P	H
		39971.98	54.59	-19.41	74	36.84	43.37	26.41	52.03	-	-	P	H
		39971.98	44.51	-9.49	54	26.76	43.37	26.41	52.03	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		23100	44.24	-29.76	74	38.64	39.15	16.67	50.22	-	-	P	V
		39719.8	54.86	-19.14	74	36.84	43.8	26.18	51.96	-	-	P	V
		39719.8	44.25	-9.75	54	26.23	43.8	26.18	51.96	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission below 1GHz

5GHz WIFI 802.11be EHT80 Full (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be EHT80 Full LF		30.97	28.27	-11.73	40	34.36	25.32	1.05	32.46	-	-	P	H
		81.41	32.63	-7.37	40	49.47	14.02	1.59	32.45	-	-	P	H
		156.1	31.1	-12.4	43.5	44.03	17.29	2.18	32.4	-	-	P	H
		245.34	26.2	-19.8	46	37.47	18.44	2.75	32.46	-	-	P	H
		500.45	32.45	-13.55	46	36.83	24.21	3.98	32.57	-	-	P	H
		938.89	33.11	-12.89	46	28.55	30.26	5.49	31.19	-	-	P	H
													H
													H
													H
													H
													H
													H
		30.97	34.12	-5.88	40	40.21	25.32	1.05	32.46	100	29	Q	V
		84.32	37.99	-2.01	40	54.42	14.4	1.63	32.46	100	0	Q	V
		154.16	32.52	-10.98	43.5	45.34	17.42	2.17	32.41	-	-	P	V
		199.75	28.41	-15.09	43.5	42.38	16.02	2.46	32.45	-	-	P	V
		586.78	30.37	-15.63	46	33.18	25.47	4.23	32.51	-	-	P	V
		869.05	32.03	-13.97	46	29.36	29.04	5.31	31.68	-	-	P	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 and/or emission level has at least 6dB margin against limit or noise floor only.

<4x4 MIMO>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5615.2	57.17	-11.03	68.2	40.86	33.18	12.86	29.73	289	103	P	H
		5694.6	58.63	-42.59	101.22	41.88	33.51	12.94	29.7	289	103	P	H
		5720	68.46	-42.34	110.8	51.55	33.65	12.96	29.7	289	103	P	H
		5723.2	71.8	-46.3	118.1	54.86	33.67	12.97	29.7	289	103	P	H
	*	5745	122.71	-	-	105.6	33.81	12.99	29.69	289	103	P	H
	*	5745	115.64	-	-	98.53	33.81	12.99	29.69	289	103	A	H
													H
802.11a													H
CH 149		5626.6	57.46	-10.74	68.2	41.13	33.17	12.88	29.72	245	140	P	V
5745MHz		5700	59.39	-45.81	105.2	42.61	33.54	12.94	29.7	245	140	P	V
		5712.8	67.87	-40.92	108.79	51	33.61	12.96	29.7	245	140	P	V
		5723.6	71.74	-47.27	119.01	54.8	33.67	12.97	29.7	245	140	P	V
	*	5745	122.24	-	-	105.14	33.8	12.99	29.69	245	140	P	V
	*	5745	116.29	-	-	99.19	33.8	12.99	29.69	245	140	A	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5630.6	58.44	-9.76	68.2	42.05	33.23	12.88	29.72	301	73	P	H
		5686	58.64	-36.23	94.87	41.95	33.46	12.93	29.7	301	73	P	H
		5710.4	59.19	-48.92	108.11	42.34	33.6	12.95	29.7	301	73	P	H
		5724.8	58.97	-62.77	121.74	42.02	33.68	12.97	29.7	301	73	P	H
	*	5785	122.3	-	-	104.96	34	13.03	29.69	301	73	P	H
	*	5785	115.08	-	-	97.74	34	13.03	29.69	301	73	A	H
		5852.8	59.1	-56.72	115.82	41.45	34.24	13.1	29.69	301	73	P	H
		5865.6	59.34	-48.49	107.83	41.66	34.27	13.11	29.7	301	73	P	H
		5904.4	58.94	-24.47	83.41	41.16	34.35	13.15	29.72	301	73	P	H
		5945.6	59.24	-8.96	68.2	41.45	34.35	13.19	29.75	301	73	P	H
													H
802.11a CH 157 5785MHz													H
		5633	56.6	-11.6	68.2	40.24	33.2	12.88	29.72	298	142	P	V
		5676	57.3	-30.18	87.48	40.68	33.41	12.92	29.71	298	142	P	V
		5718.4	59.35	-51	110.35	42.45	33.64	12.96	29.7	298	142	P	V
		5724.2	58.1	-62.28	120.38	41.15	33.68	12.97	29.7	298	142	P	V
	*	5785	122.75	-	-	105.43	33.98	13.03	29.69	298	142	P	V
	*	5785	116.38	-	-	99.06	33.98	13.03	29.69	298	142	A	V
		5850.2	59.33	-62.41	121.74	41.65	34.28	13.09	29.69	298	142	P	V
		5867	59.93	-47.51	107.44	42.21	34.31	13.11	29.7	298	142	P	V
		5893.4	59.56	-31.99	91.55	41.79	34.35	13.14	29.72	298	142	P	V
		5932.4	58.4	-9.8	68.2	40.63	34.33	13.18	29.74	298	142	P	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	121.18	-	-	103.65	34.15	13.07	29.69	320	74	P	H
	*	5825	114.71	-	-	97.18	34.15	13.07	29.69	320	74	A	H
		5853.6	70.2	-43.79	113.99	52.54	34.25	13.1	29.69	320	74	P	H
		5857.4	69.1	-41.03	110.13	51.44	34.25	13.1	29.69	320	74	P	H
		5900.6	59.71	-26.51	86.22	41.93	34.35	13.15	29.72	320	74	P	H
		5928.4	57.77	-10.43	68.2	39.99	34.35	13.17	29.74	320	74	P	H
													H
802.11a													H
CH 165	*	5825	123.45	-	-	105.91	34.16	13.07	29.69	305	145	P	V
5825MHz	*	5825	116.21	-	-	98.67	34.16	13.07	29.69	305	145	A	V
		5852.8	73.18	-42.64	115.82	55.49	34.28	13.1	29.69	305	145	P	V
		5855.6	70.83	-39.8	110.63	53.13	34.29	13.1	29.69	305	145	P	V
		5887.4	60.66	-35.33	95.99	42.9	34.34	13.13	29.71	305	145	P	V
		5949.6	58.37	-9.83	68.2	40.61	34.31	13.2	29.75	305	145	P	V
													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 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	51.37	-22.63	74	60.52	39.06	18.49	66.7	400	6	P	H
		11490	42.37	-11.63	54	51.52	39.06	18.49	66.7	400	6	A	H
		17235	47.3	-20.9	68.2	54.04	37.65	23.04	67.43	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 149 5745MHz													H
		11490	56.6	-17.4	74	65.73	39.08	18.49	66.7	310	96	P	V
		11490	46.17	-7.83	54	55.3	39.08	18.49	66.7	310	96	A	V
		17235	47.91	-20.29	68.2	54.61	37.69	23.04	67.43	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11570	52.99	-21.01	74	62.29	38.82	18.55	66.67	400	360	P	H
		11570	42.74	-11.26	54	52.04	38.82	18.55	66.67	400	360	A	H
		17355	49.7	-18.5	68.2	56.47	37.92	23.15	67.84	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 157 5785MHz													H
		11570	57.34	-16.66	74	66.56	38.9	18.55	66.67	275	98	P	V
		11570	47.61	-6.39	54	56.83	38.9	18.55	66.67	275	98	A	V
		17355	49.4	-18.8	68.2	56.18	37.91	23.15	67.84	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11650	53.03	-20.97	74	62.52	38.67	18.61	66.77	389	4	P	H
		11650	44.08	-9.92	54	53.57	38.67	18.61	66.77	389	4	A	H
		17475	48.72	-19.48	68.2	55.63	38.42	23.26	68.59	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 165 5825MHz													H
		11650	59.46	-14.54	74	68.87	38.75	18.61	66.77	298	95	P	V
		11650	50.99	-3.01	54	60.4	38.75	18.61	66.77	298	95	A	V
		17475	49.71	-18.49	68.2	56.63	38.41	23.26	68.59	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 4 5725~5850MHz

WIFI 802.11be EHT20_Full (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5645.4	57.92	-10.28	68.2	41.48	33.27	12.89	29.72	314	105	P	H
		5695	61.03	-40.48	101.51	44.28	33.51	12.94	29.7	314	105	P	H
		5712.8	71.47	-37.32	108.79	54.6	33.61	12.96	29.7	314	105	P	H
		5723.6	74.8	-44.21	119.01	57.85	33.68	12.97	29.7	314	105	P	H
	*	5745	121.69	-	-	104.58	33.81	12.99	29.69	314	105	P	H
	*	5745	114.77	-	-	97.66	33.81	12.99	29.69	314	105	A	H
802.11be													H
EHT20 Full													H
CH 149		5648.8	57.16	-11.04	68.2	40.71	33.27	12.9	29.72	304	140	P	V
5745MHz		5690.8	60.89	-37.53	98.42	44.16	33.49	12.94	29.7	304	140	P	V
		5719.4	70.79	-39.84	110.63	53.88	33.65	12.96	29.7	304	140	P	V
		5720.4	72.04	-39.67	111.71	55.12	33.66	12.96	29.7	304	140	P	V
	*	5745	122.43	-	-	105.33	33.8	12.99	29.69	304	140	P	V
	*	5745	115.5	-	-	98.4	33.8	12.99	29.69	304	140	A	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5609.2	57.23	-10.97	68.2	40.94	33.16	12.86	29.73	321	119	P	H
		5699.4	57.96	-46.8	104.76	41.19	33.53	12.94	29.7	321	119	P	H
		5716	59.25	-50.43	109.68	42.36	33.63	12.96	29.7	321	119	P	H
		5724.2	59.76	-60.62	120.38	42.81	33.68	12.97	29.7	321	119	P	H
	*	5785	121.16	-	-	103.82	34	13.03	29.69	321	119	P	H
	*	5785	114.83	-	-	97.49	34	13.03	29.69	321	119	A	H
		5855	58.78	-52.02	110.8	41.12	34.25	13.1	29.69	321	119	P	H
		5863.2	59.82	-48.68	108.5	42.13	34.27	13.11	29.69	321	119	P	H
		5906.6	57.86	-23.92	81.78	40.08	34.35	13.15	29.72	321	119	P	H
		5938.2	59.43	-8.77	68.2	41.64	34.35	13.19	29.75	321	119	P	H
802.11be													H
EHT20 Full													H
CH 157		5636.4	57.61	-10.59	68.2	41.24	33.21	12.88	29.72	307	140	P	V
5785MHz		5678.6	57.87	-31.53	89.4	41.23	33.43	12.92	29.71	307	140	P	V
		5717.6	59.05	-51.08	110.13	42.15	33.64	12.96	29.7	307	140	P	V
		5724.4	59.83	-61	120.83	42.88	33.68	12.97	29.7	307	140	P	V
	*	5785	124.06	-	-	106.74	33.98	13.03	29.69	307	140	P	V
	*	5785	115.59	-	-	98.27	33.98	13.03	29.69	307	140	A	V
		5853.6	59.41	-54.58	113.99	41.72	34.28	13.1	29.69	307	140	P	V
		5862	59.43	-49.41	108.84	41.71	34.3	13.11	29.69	307	140	P	V
		5878	58.68	-44.29	102.97	40.95	34.32	13.12	29.71	307	140	P	V
		5925	57.58	-10.62	68.2	39.82	34.33	13.17	29.74	307	140	P	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	121.82	-	-	104.29	34.15	13.07	29.69	321	61	P	H
	*	5825	114.95	-	-	97.42	34.15	13.07	29.69	321	61	A	H
		5852.6	74.9	-41.37	116.27	57.25	34.24	13.1	29.69	321	61	P	H
		5855	69.5	-41.3	110.8	51.84	34.25	13.1	29.69	321	61	P	H
		5876	61.45	-43.01	104.46	43.73	34.3	13.12	29.7	321	61	P	H
		5946.6	58.29	-9.91	68.2	40.5	34.35	13.19	29.75	321	61	P	H
802.11be													H
EHT20 Full													H
CH 165	*	5825	122.97	-	-	105.43	34.16	13.07	29.69	301	141	P	V
5825MHz	*	5825	115.56	-	-	98.02	34.16	13.07	29.69	301	141	A	V
		5853.2	77.3	-37.6	114.9	59.61	34.28	13.1	29.69	301	141	P	V
		5855	73.02	-37.78	110.8	55.32	34.29	13.1	29.69	301	141	P	V
		5876.2	61.14	-43.17	104.31	43.4	34.32	13.12	29.7	301	141	P	V
		5941	57.69	-10.51	68.2	39.93	34.32	13.19	29.75	301	141	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 802.11be EHT20 Full (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	50.89	-23.11	74	60.04	39.06	18.49	66.7	400	6	P	H
		11490	42.11	-11.89	54	51.26	39.06	18.49	66.7	400	6	A	H
		17235	47.88	-20.32	68.2	54.62	37.65	23.04	67.43	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT20 Full													H
CH 149		11490	55.86	-18.14	74	64.99	39.08	18.49	66.7	287	95	P	V
5745MHz		11490	45.91	-8.09	54	55.04	39.08	18.49	66.7	287	95	A	V
		17235	50.76	-17.44	68.2	57.46	37.69	23.04	67.43	302	165	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11570	52.35	-21.65	74	61.65	38.82	18.55	66.67	400	1	P	H
		11570	42.58	-11.42	54	51.88	38.82	18.55	66.67	400	1	A	H
		17355	49.01	-19.19	68.2	55.78	37.92	23.15	67.84	168	145	P	H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT20 Full													H
CH 157		11570	59.72	-14.28	74	68.94	38.9	18.55	66.67	281	95	P	V
5785MHz		11570	48.27	-5.73	54	57.49	38.9	18.55	66.67	281	95	A	V
		17355	49.93	-18.27	68.2	56.71	37.91	23.15	67.84	332	185	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11650	52.41	-21.59	74	61.9	38.67	18.61	66.77	388	3	P	H
		11650	43.42	-10.58	54	52.91	38.67	18.61	66.77	388	3	A	H
		17475	48.68	-19.52	68.2	55.59	38.42	23.26	68.59	178	156	P	H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT20 Full													H
CH 165		11650	60.54	-13.46	74	69.95	38.75	18.61	66.77	276	96	P	V
5825MHz		11650	50.29	-3.71	54	59.7	38.75	18.61	66.77	276	96	A	V
		17475	50.91	-17.29	68.2	57.83	38.41	23.26	68.59	312	45	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11be EHT40_Full (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5613.6	57.81	-10.39	68.2	41.5	33.18	12.86	29.73	321	103	P	H
		5684.2	69.19	-24.35	93.54	52.51	33.45	12.93	29.7	321	103	P	H
		5718.8	72.22	-38.24	110.46	55.31	33.65	12.96	29.7	321	103	P	H
		5721.2	76.52	-37.02	113.54	59.59	33.66	12.97	29.7	321	103	P	H
	*	5755	121.2	-	-	104.03	33.86	13	29.69	321	103	P	H
	*	5755	111.58	-	-	94.41	33.86	13	29.69	321	103	A	H
		5854.8	60.61	-50.65	111.26	42.95	34.25	13.1	29.69	321	103	P	H
		5857	62.49	-47.75	110.24	44.83	34.25	13.1	29.69	321	103	P	H
		5880.6	58.84	-42.2	101.04	41.12	34.31	13.12	29.71	321	103	P	H
		5927.8	58.17	-10.03	68.2	40.39	34.35	13.17	29.74	321	103	P	H
802.11be													H
EHT40 Full													H
CH 151		5617.4	58.17	-10.03	68.2	41.91	33.12	12.87	29.73	298	145	P	V
5755MHz		5700	67.45	-37.75	105.2	50.67	33.54	12.94	29.7	298	145	P	V
		5709.8	72.56	-35.39	107.95	55.72	33.59	12.95	29.7	298	145	P	V
		5724.6	71.47	-49.82	121.29	54.52	33.68	12.97	29.7	298	145	P	V
	*	5755	119.71	-	-	102.55	33.85	13	29.69	298	145	P	V
	*	5755	112.56	-	-	95.4	33.85	13	29.69	298	145	A	V
		5853.4	61.22	-53.23	114.45	43.53	34.28	13.1	29.69	298	145	P	V
		5856.2	61.51	-48.95	110.46	43.81	34.29	13.1	29.69	298	145	P	V
		5878.8	61.03	-41.35	102.38	43.29	34.33	13.12	29.71	298	145	P	V
		5929.2	58.76	-9.44	68.2	40.99	34.33	13.18	29.74	298	145	P	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5622.2	57.86	-10.34	68.2	41.52	33.2	12.87	29.73	303	115	P	H
		5692.2	58.78	-40.67	99.45	42.05	33.49	12.94	29.7	303	115	P	H
		5717	66.22	-43.74	109.96	49.32	33.64	12.96	29.7	303	115	P	H
		5724.8	67.58	-54.16	121.74	50.63	33.68	12.97	29.7	303	115	P	H
	*	5795	117.6	-	-	100.2	34.05	13.04	29.69	303	115	P	H
	*	5795	110.56	-	-	93.16	34.05	13.04	29.69	303	115	A	H
		5852	75.7	-41.94	117.64	58.06	34.24	13.09	29.69	303	115	P	H
		5855	69.34	-41.46	110.8	51.68	34.25	13.1	29.69	303	115	P	H
		5880.6	62.13	-38.91	101.04	44.41	34.31	13.12	29.71	303	115	P	H
		5945	59.95	-8.25	68.2	42.16	34.35	13.19	29.75	303	115	P	H
802.11be													H
EHT40 Full													H
CH 159		5649.6	57.74	-10.46	68.2	41.28	33.28	12.9	29.72	400	321	P	V
5795MHz		5689	59.62	-37.47	97.09	42.91	33.48	12.93	29.7	400	321	P	V
		5718	66.18	-44.06	110.24	49.28	33.64	12.96	29.7	400	321	P	V
		5720.2	65.77	-45.49	111.26	48.86	33.65	12.96	29.7	400	321	P	V
	*	5795	118.86	-	-	101.48	34.03	13.04	29.69	400	321	P	V
	*	5795	111.9	-	-	94.52	34.03	13.04	29.69	400	321	A	V
		5852.2	75.46	-41.72	117.18	57.78	34.28	13.09	29.69	400	321	P	V
		5855.2	69.47	-41.27	110.74	51.77	34.29	13.1	29.69	400	321	P	V
		5879	62.5	-39.73	102.23	44.76	34.33	13.12	29.71	400	321	P	V
		5944.4	58.1	-10.1	68.2	40.35	34.31	13.19	29.75	400	321	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 802.11be EHT40_Full (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	50.72	-23.28	74	59.89	38.99	18.5	66.66	399	4	P	H
		11510	40.85	-13.15	54	50.02	38.99	18.5	66.66	399	4	A	H
		17265	47.44	-20.76	68.2	54.1	37.71	23.07	67.44	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT40 Full													H
CH 151		11510	54.1	-19.9	74	63.22	39.04	18.5	66.66	273	96	P	V
5755MHz		11510	44.63	-9.37	54	53.75	39.04	18.5	66.66	273	96	A	V
		17265	47.92	-20.28	68.2	54.53	37.76	23.07	67.44	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11590	49.53	-24.47	74	58.91	38.77	18.57	66.72	387	360	P	H
		11590	40.73	-13.27	54	50.11	38.77	18.57	66.72	387	360	A	H
		17385	47.9	-20.3	68.2	54.85	38	23.18	68.13	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT40 Full													H
CH 159		11590	55.2	-18.8	74	64.51	38.84	18.57	66.72	290	96	P	V
5795MHz		11590	45.93	-8.07	54	55.24	38.84	18.57	66.72	290	96	A	V
		17385	47.9	-20.3	68.2	54.81	38.04	23.18	68.13	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 4 5725~5850MHz

WIFI 802.11be EHT80_Full (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5649.6	64.89	-3.31	68.2	48.43	33.28	12.9	29.72	299	118	P	H
		5659.2	70.76	-4.27	75.03	54.23	33.33	12.91	29.71	299	118	P	H
		5719.8	72.46	-38.28	110.74	55.55	33.65	12.96	29.7	299	118	P	H
		5725	75.56	-46.64	122.2	58.61	33.68	12.97	29.7	299	118	P	H
	*	5775	115.73	-	-	98.45	33.95	13.02	29.69	299	118	P	H
	*	5775	108.49	-	-	91.21	33.95	13.02	29.69	299	118	A	H
		5852.6	74.17	-42.1	116.27	56.52	34.24	13.1	29.69	299	118	P	H
		5855	73.26	-37.54	110.8	55.6	34.25	13.1	29.69	299	118	P	H
		5875.2	67.77	-37.28	105.05	50.05	34.3	13.12	29.7	299	118	P	H
		5948.4	60.94	-7.26	68.2	43.14	34.35	13.2	29.75	299	118	P	H
802.11be													H
EHT80 Full													H
CH 155		5630.8	65.3	-2.9	68.2	48.95	33.19	12.88	29.72	309	321	P	V
5775MHz		5690	70.45	-27.38	97.83	53.72	33.49	12.94	29.7	309	321	P	V
		5716.2	71.09	-38.65	109.74	54.2	33.63	12.96	29.7	309	321	P	V
		5725	78.56	-43.64	122.2	61.61	33.68	12.97	29.7	309	321	P	V
	*	5775	116.72	-	-	99.45	33.94	13.02	29.69	309	321	P	V
	*	5775	108.67	-	-	91.4	33.94	13.02	29.69	309	321	A	V
		5850.6	74.31	-46.52	120.83	56.63	34.28	13.09	29.69	309	321	P	V
		5860	71.97	-37.43	109.4	54.27	34.29	13.1	29.69	309	321	P	V
		5879	70.15	-32.08	102.23	52.41	34.33	13.12	29.71	309	321	P	V
		5928.2	58.96	-9.24	68.2	41.2	34.33	13.17	29.74	309	321	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 802.11be EHT80_Full (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	47.16	-26.84	74	56.4	38.86	18.53	66.63	-	-	P	H
		17325	49.74	-18.46	68.2	56.43	37.84	23.12	67.65	116	360	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11be													H
EHT80 Full													H
CH 155		11550	47.91	-26.09	74	57.06	38.95	18.53	66.63	-	-	P	V
5775MHz		17325	48.81	-19.39	68.2	55.48	37.86	23.12	67.65	303	323	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission above 18GHz

5GHz WIFI 802.11be EHT80 Full (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be EHT80 Full SHF		39733.81	53.71	-20.29	74	36.06	43.34	26.2	51.89	287	271	P	H
		39733.81	43.67	-10.33	54	26.02	43.34	26.2	51.89	287	271	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		23100	47.57	-26.43	74	41.97	39.15	16.67	50.22	300	242	P	V
		23100	46.05	-7.95	54	40.45	39.15	16.67	50.22	300	242	A	V
		39341.53	55.37	-18.63	74	38.23	44.16	25.83	52.85	177	215	P	V
		39341.53	45.49	-8.51	54	28.35	44.16	25.83	52.85	177	215	A	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 802.11be EHT80 Full (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be EHT80 Full LF		74.62	23.04	-16.96	40	40.8	13.16	1.5	32.42	-	-	P	H
		105.66	25.4	-18.1	43.5	38.94	17.03	1.91	32.48	-	-	P	H
		238.55	19.91	-26.09	46	31.85	17.83	2.71	32.48	-	-	P	H
		424.79	26.62	-19.38	46	32.19	23.3	3.68	32.55	-	-	P	H
		751.68	33.8	-12.2	46	33.36	27.7	5.03	32.29	-	-	P	H
		948.59	33.46	-12.54	46	28.47	30.57	5.52	31.1	-	-	P	H
													H
													H
													H
													H
													H
													H
		74.62	24.36	-15.64	40	42.12	13.16	1.5	32.42	-	-	P	V
		105.66	30.67	-12.83	43.5	44.21	17.03	1.91	32.48	-	-	P	V
		224.97	26.39	-19.61	46	39.55	16.7	2.62	32.48	-	-	P	V
		421.88	25.34	-20.66	46	30.91	23.3	3.67	32.54	-	-	P	V
		750.71	33.25	-12.75	46	32.87	27.64	5.02	32.28	-	-	P	V
		950.53	33.68	-12.32	46	28.63	30.59	5.53	31.07	-	-	P	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 and emission level has at least 6dB margin against limit or 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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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.	
1+2+3+4		(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 Limit(dB) = Level(dBµV/m) – Limit Line(dBµV/m)

For Peak Limit @ 2390MHz:

1. Level(dBµV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBµV) – 35.86 (dB)

= 55.45 (dBµV/m)

2. Over Limit(dB)

= Level(dBµV/m) – Limit Line(dBµV/m)

= 55.45(dBµV/m) – 68.2(dBµV/m)

= -12.75 (dB)

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

Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Fan	**Temperature :**	17.0~23.5°C
		Relative Humidity :	41.8~64.1%

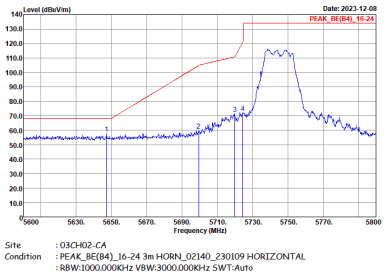
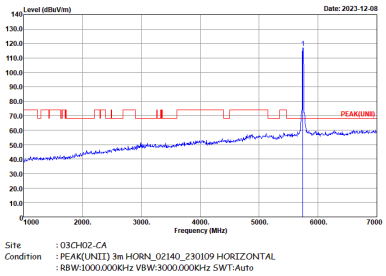
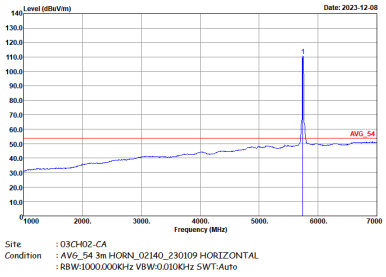
Note symbol

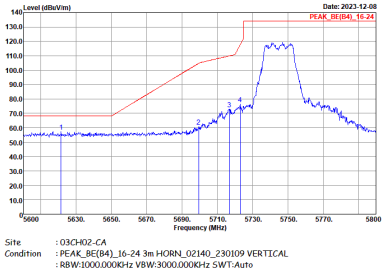
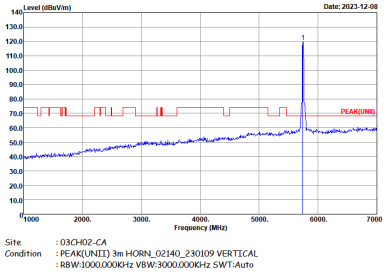
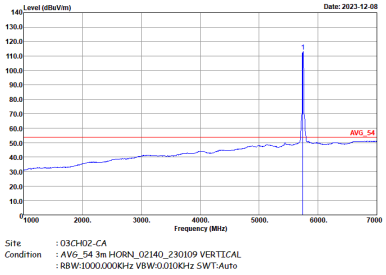
-L	**Low channel location**
-R	**High channel location**

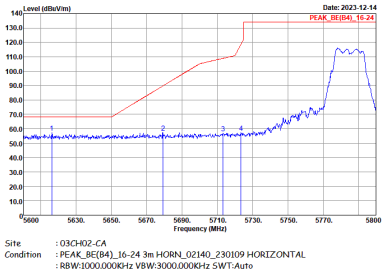
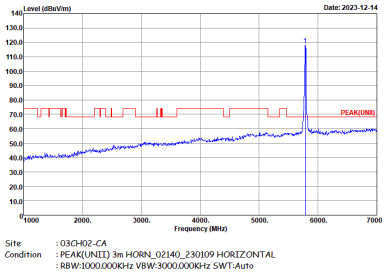
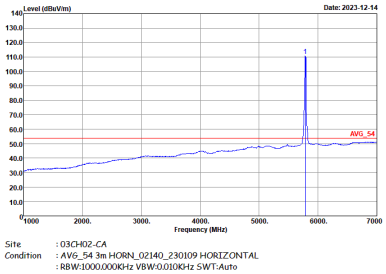
< 2x2 MIMO>

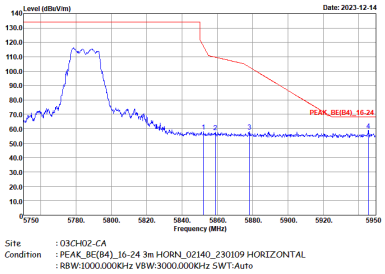
Band 4 - 5725~5850MHz

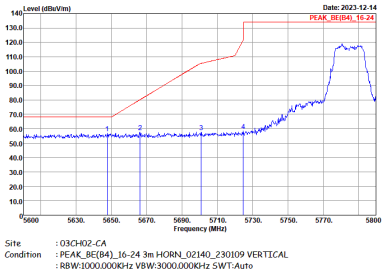
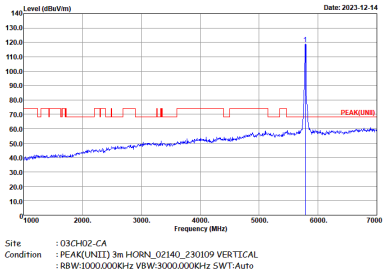
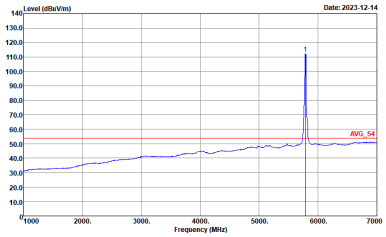
WIFI 802.11a (Band Edge @ 3m)

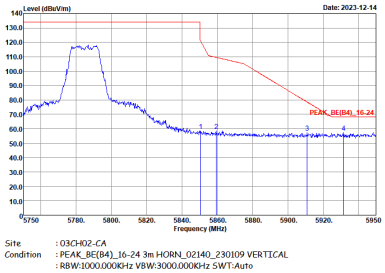
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+3	Horizontal	Fundamental
Peak		
Avg	Left blank	

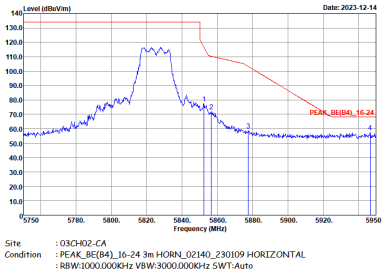
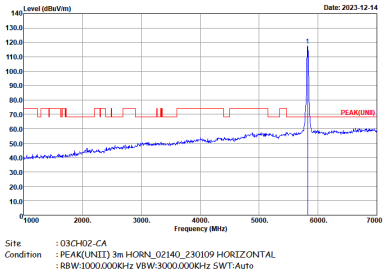
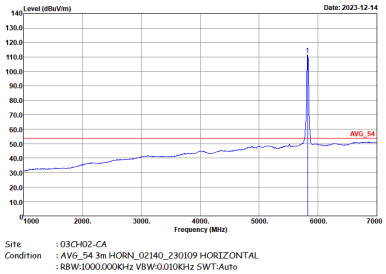
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+3	Vertical	Fundamental
Peak		
Avg	Left blank	

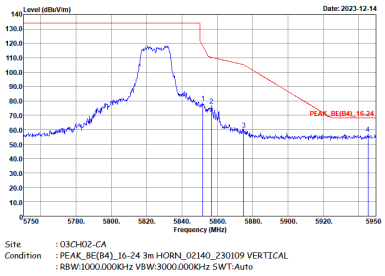
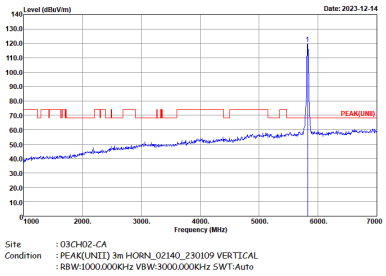
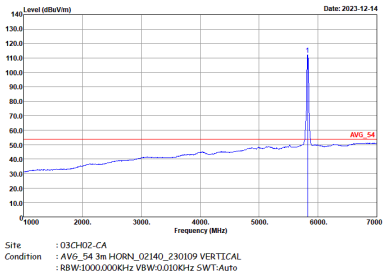
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+3	Horizontal	Fundamental
Peak		
Avg	Left blank	

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+3	Horizontal	Fundamental
Peak		Left blank

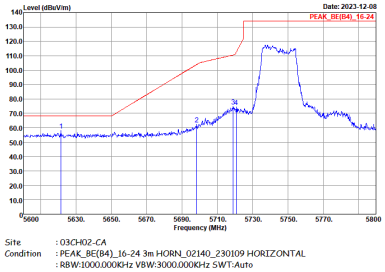
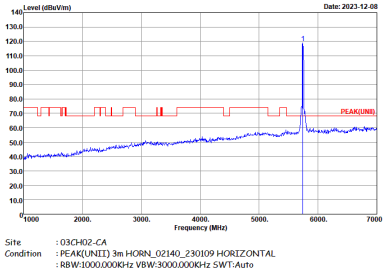
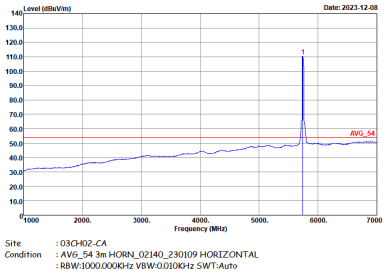
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+3	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

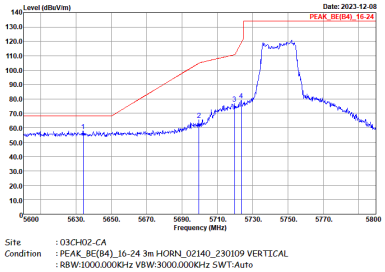
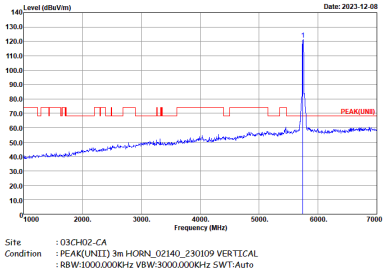
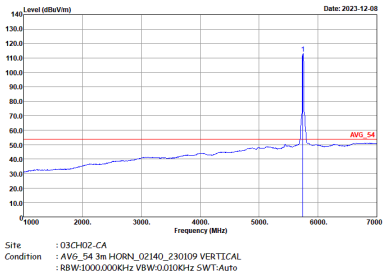
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+3	Vertical	Fundamental
Peak		Left blank

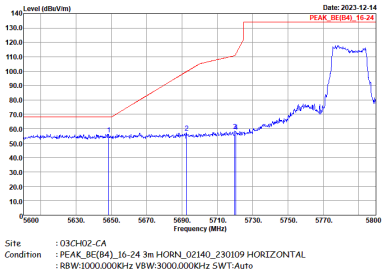
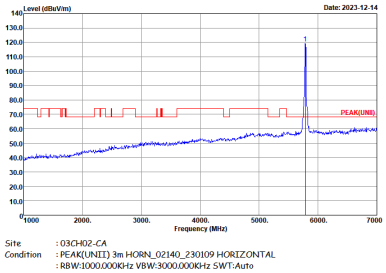
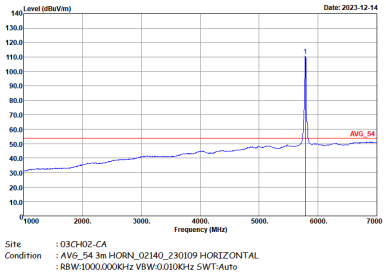
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+3	Horizontal	Fundamental
Peak		
Avg	Left blank		

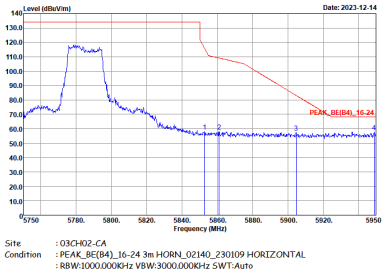
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+3	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

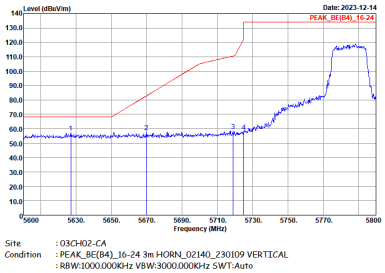
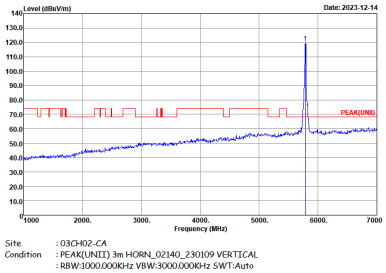
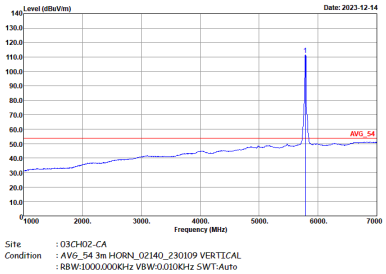
Band 4 5725~5850MHz
WIFI 802.11be EHT20 Full (Band Edge @ 3m)

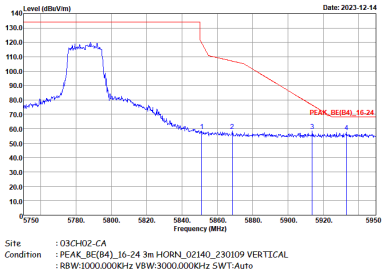
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH149 5745MHz	
1+3	Horizontal	Fundamental
Peak		
Avg	Left blank		

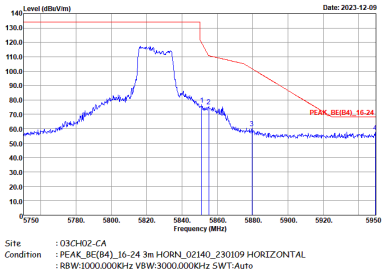
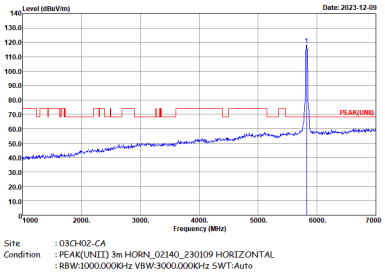
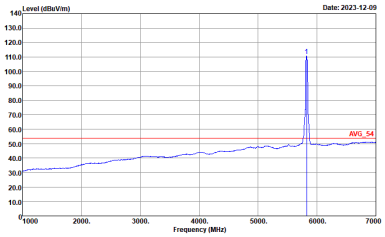
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH149 5745MHz	
1+3	Vertical	Fundamental
Peak		
Avg	Left blank	

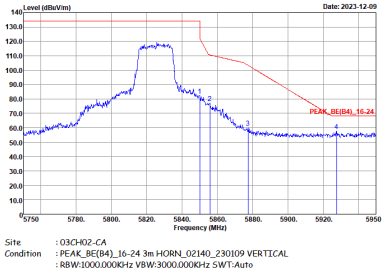
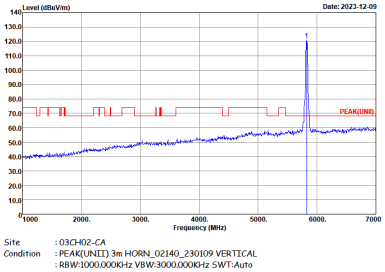
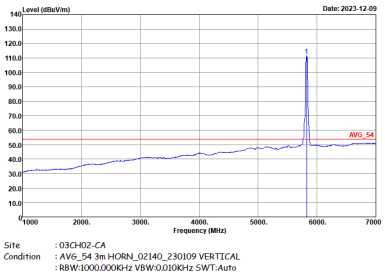
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH157 5785MHz	
1+3	Horizontal	Fundamental
Peak		
Avg	Left blank	

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH157 5785MHz	
1+3	Horizontal	Fundamental
Peak		Left blank

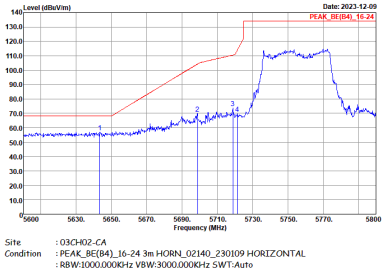
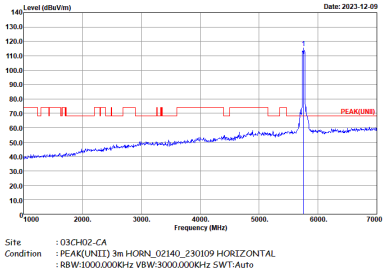
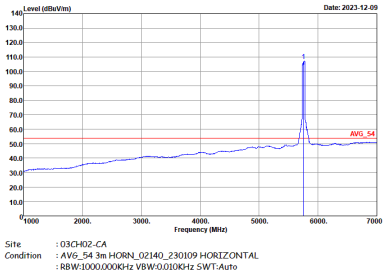
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH157 5785MHz	
1+3	Vertical	Fundamental
Peak		
Avg	Left blank	

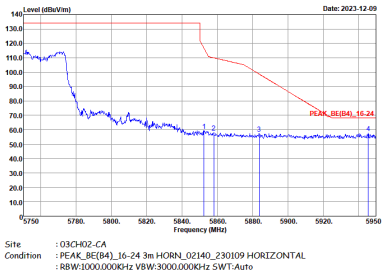
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH157 5785MHz	
1+3	Vertical	Fundamental
Peak		Left blank

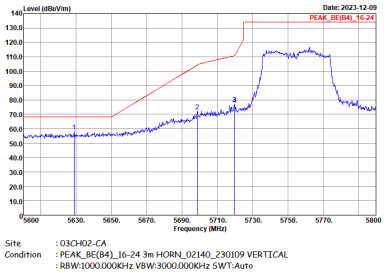
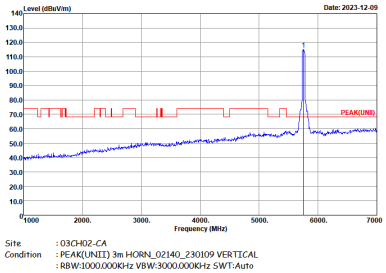
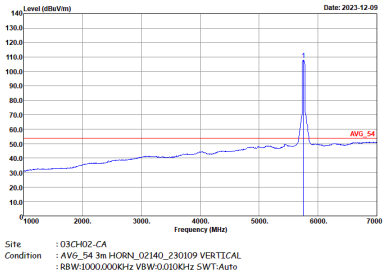
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH165 5825MHz	
1+3	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

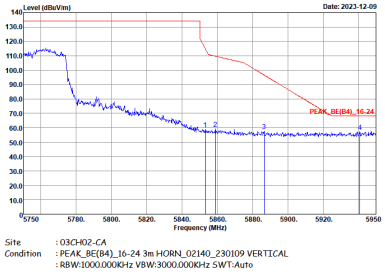
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH165 5825MHz	
1+3	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

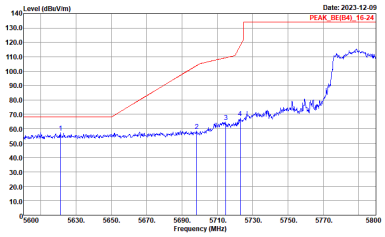
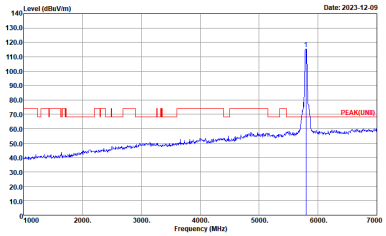
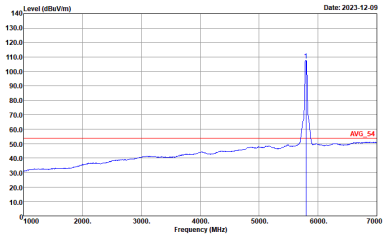
Band 4 5725~5850MHz
WIFI 802.11be EHT40 Full (Band Edge @ 3m)

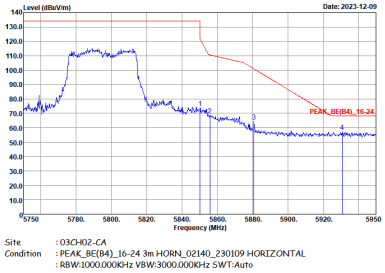
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH151 5755MHz	
1+3	Horizontal	Fundamental
Peak		
Avg	Left blank	

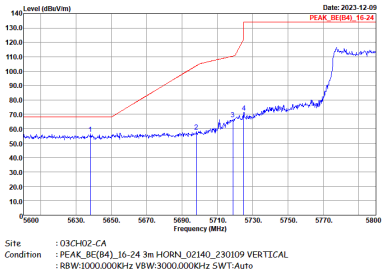
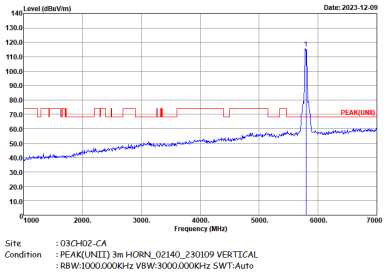
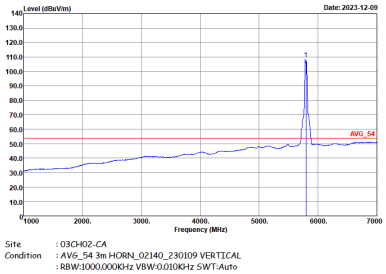
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH151 5755MHz	
1+3	Horizontal	Fundamental
Peak		Left blank

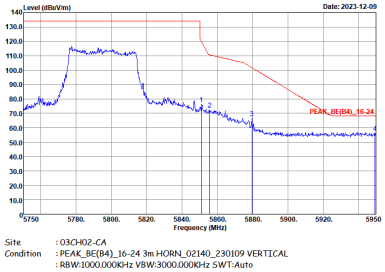
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH151 5755MHz	
1+3	Vertical	Fundamental
Peak		
Avg	Left blank	

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH151 5755MHz	
1+3	Vertical	Fundamental
Peak		Left blank

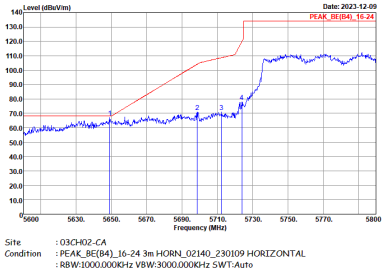
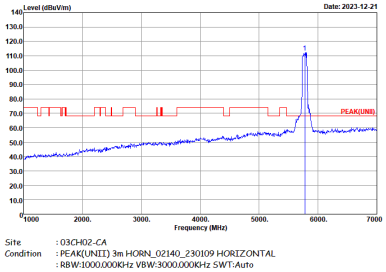
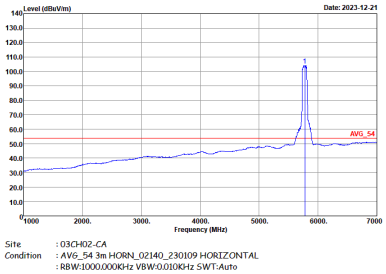
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full HT40 CH159 5795MHz	
1+3	Horizontal	Fundamental
Peak		
Avg	Left blank		

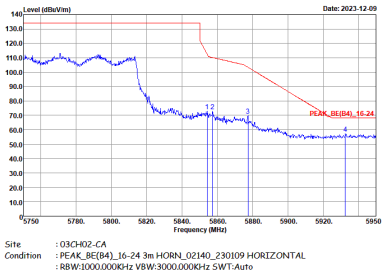
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full HT40 CH159 5795MHz	
1+3	Horizontal	Fundamental
Peak		Left blank

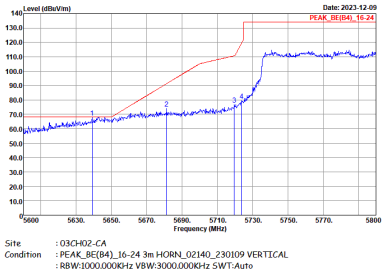
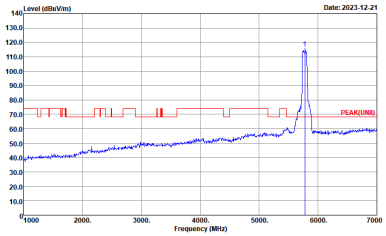
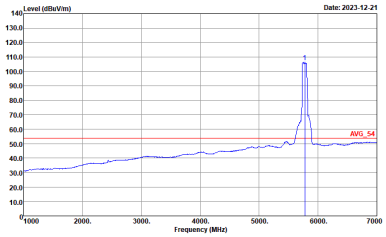
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH159 5795MHz	
1+3	Vertical	Fundamental
Peak		
Avg	Left blank	

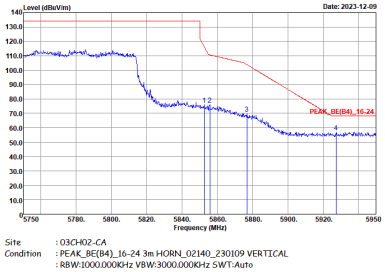
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH159 5795MHz	
1+3	Vertical	Fundamental
Peak		Left blank

Band 4 5725~5850MHz
WIFI 802.11be EHT80 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT80 Full CH155 5775MHz	
1+3	Horizontal	Fundamental
Peak		
Avg	Left blank		

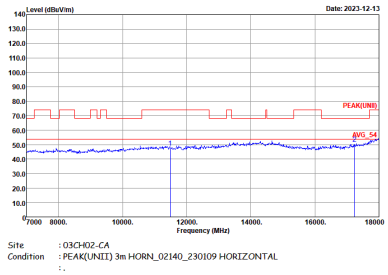
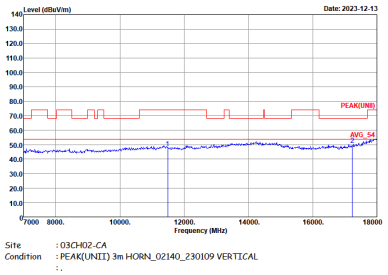
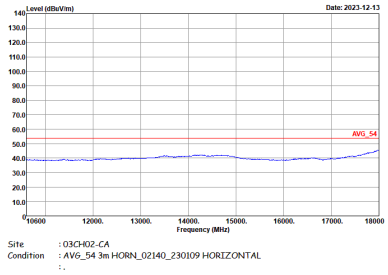
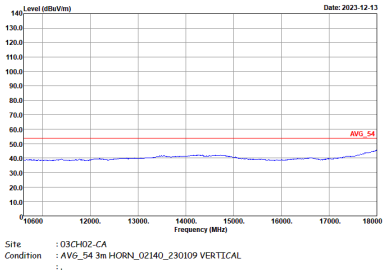
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT80 Full CH155 5775MHz	
1+3	Horizontal	Fundamental
Peak		Left blank

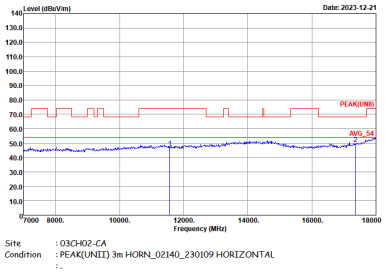
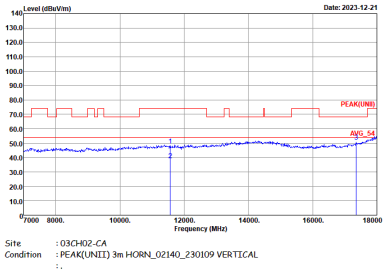
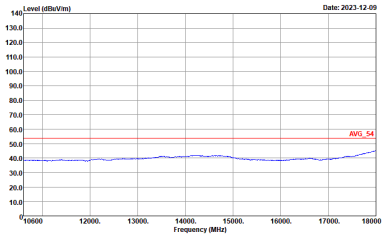
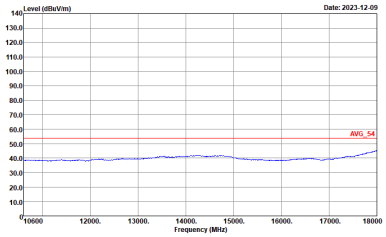
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT80 Full CH155 5775MHz	
1+3	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

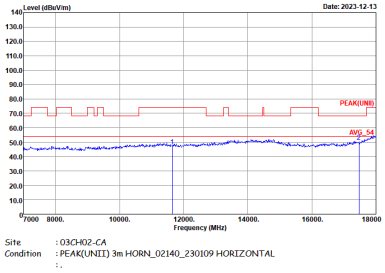
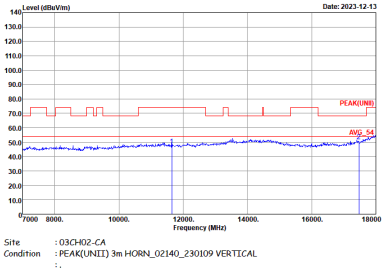
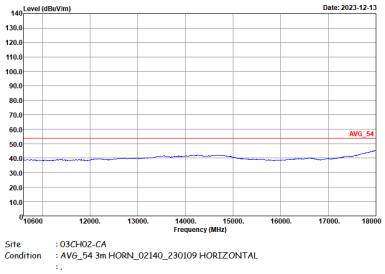
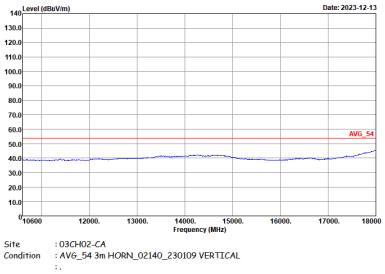
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11be EHT80 Full CH155 5775MHz	
1+3	Vertical	Fundamental
Peak		Left blank

Band 4 - 5725~5850MHz

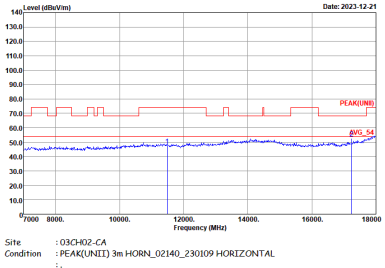
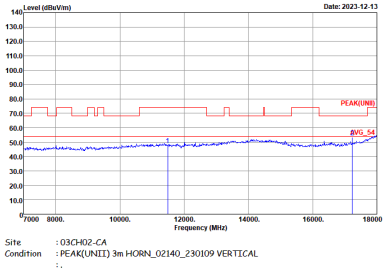
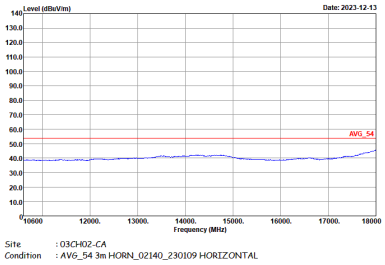
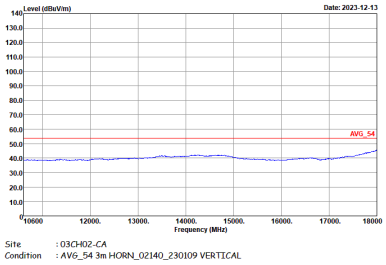
WIFI 802.11a (Harmonic @ 3m)

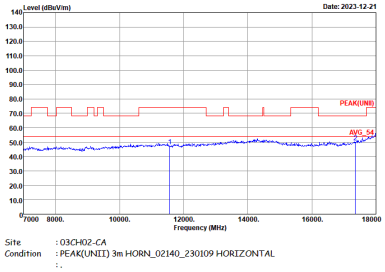
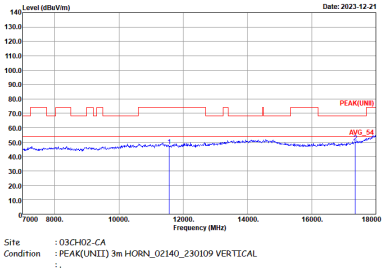
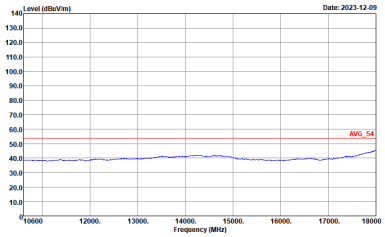
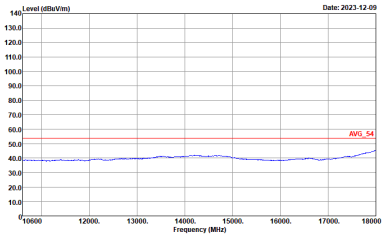
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+3	Horizontal	Vertical
Peak Avg.		
10.6G ~18G Avg.		

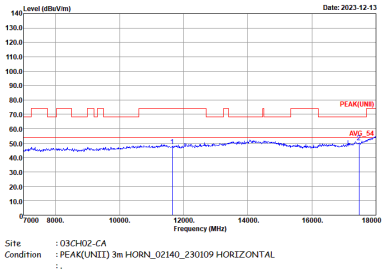
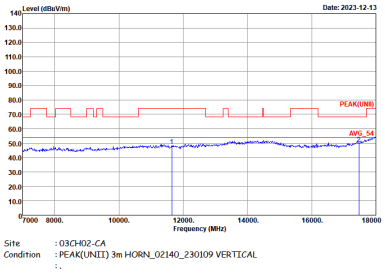
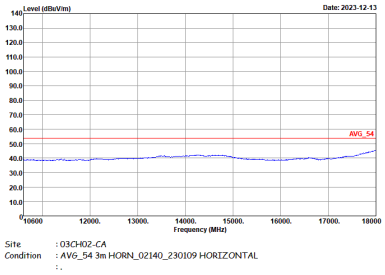
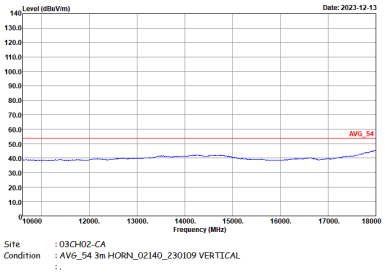
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : .
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : .

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : .
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : .

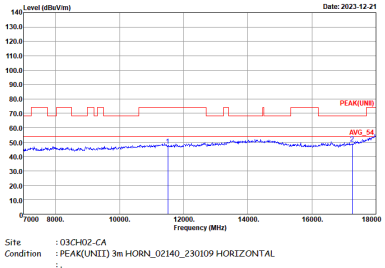
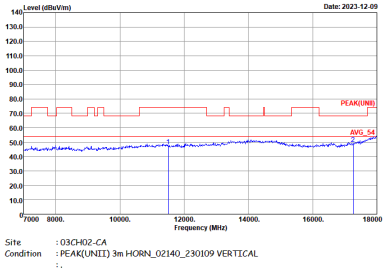
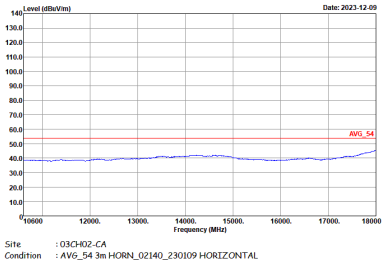
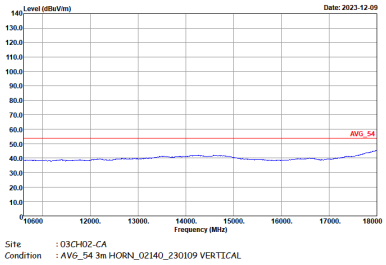
Band 4 5725~5850MHz
WIFI 802.11be EHT20 Full (Harmonic @ 3m)

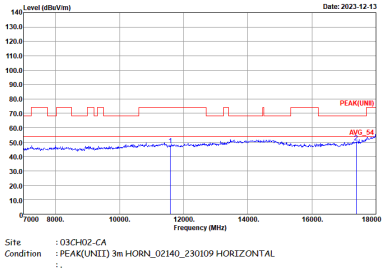
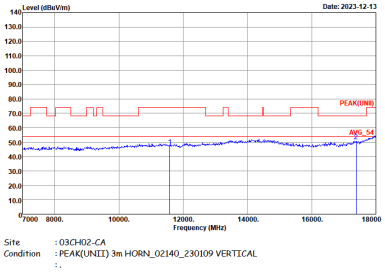
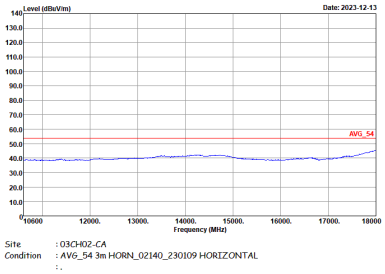
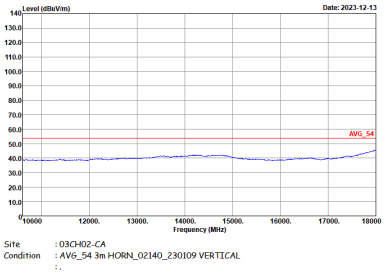
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11be EHT20 Full CH149 5745MHz	
1+3	Horizontal	Vertical
Peak Avg.		
10.6G ~18G Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11be EHT20 Full CH157 5785MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : .
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : .

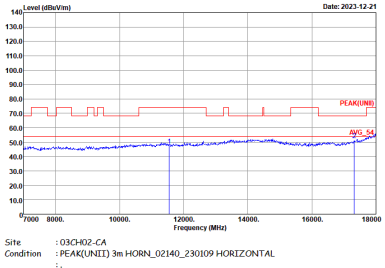
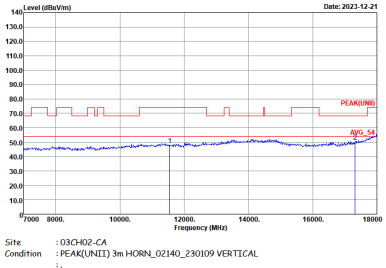
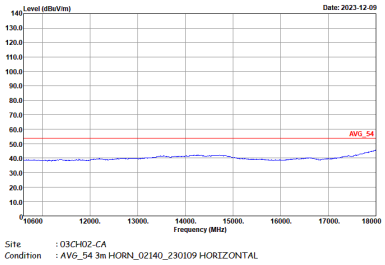
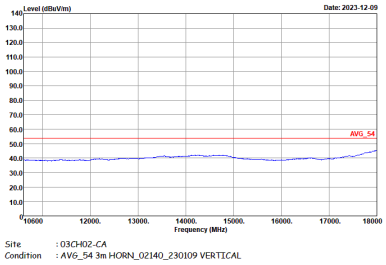
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11be EHT20 Full CH165 5825MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : .
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : .

Band 4 5725~5850MHz
WIFI 802.11be EHT40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11be EHT40 Full CH151 5755MHz	
1+3	Horizontal	Vertical
Peak Avg.		
10.6G ~18G Avg.		

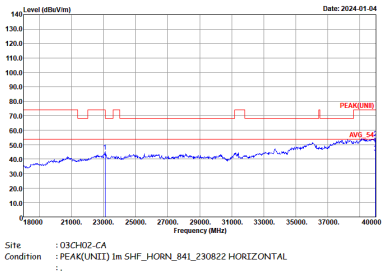
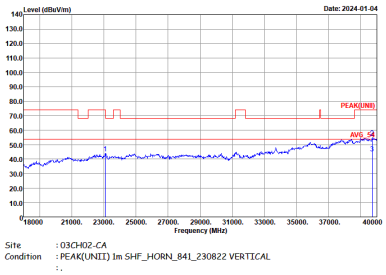
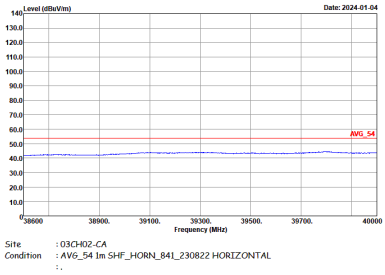
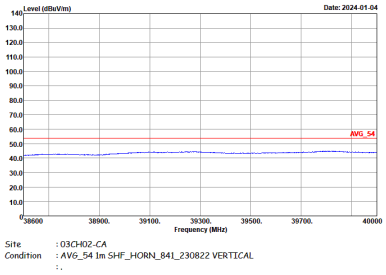
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11be EHT40 Full CH159 5795MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_230109 VERTICAL : .
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 HORIZONTAL : .	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_230109 VERTICAL : .

Band 4 5725~5850MHz
WIFI 802.11be EHT80 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11be EHT80 Full CH155 5775MHz	
1+3	Horizontal	Vertical
Peak Avg.		
10.6G ~18G Avg.		

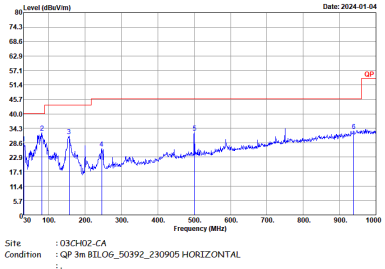
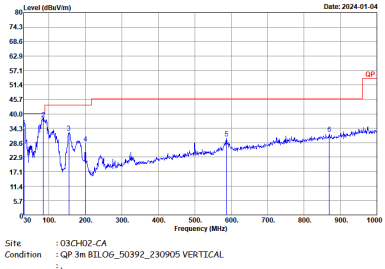
Emission above 18GHz

5GHz WIFI 802.11be EHT80 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11be EHT80 Full SHF	
1+3	Horizontal	Vertical
Peak Avg.		
38.6G~ 40G AVG.		

Emission below 1GHz

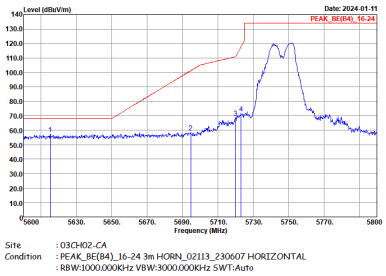
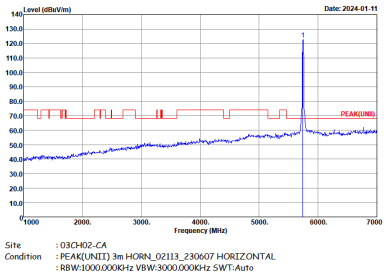
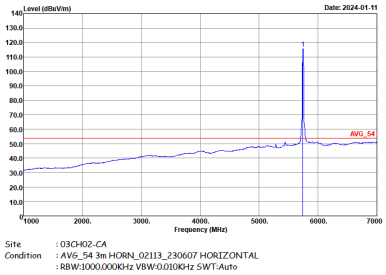
5GHz WIFI 802.11be EHT80 Full (LF @ 3m)

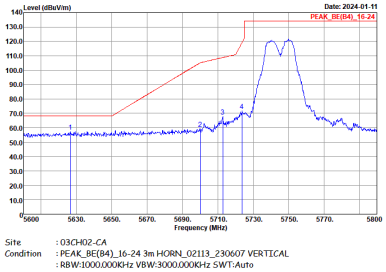
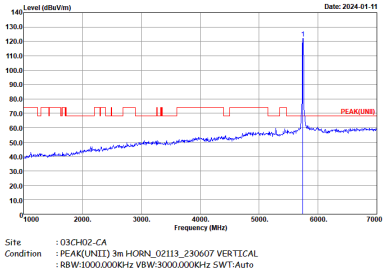
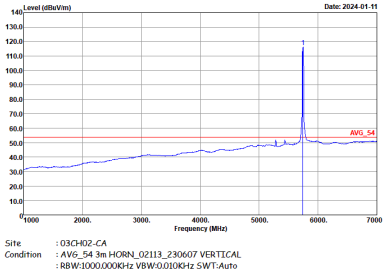
WIFI	5GHz WIFI	
ANT	802.11be EHT80 Full LF	
1+3	Horizontal	Vertical
QP / Peak		

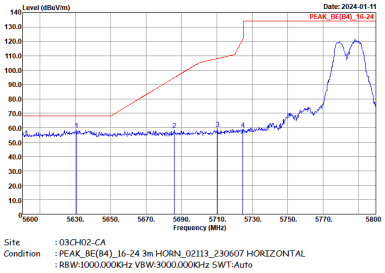
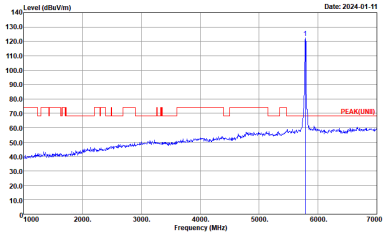
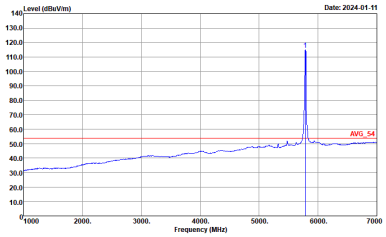
< 4x4 MIMO>

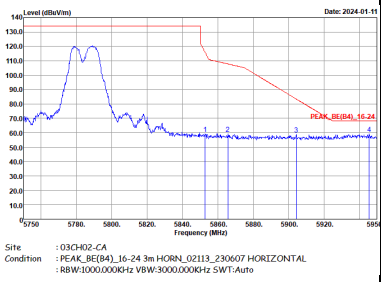
Band 4 - 5725~5850MHz

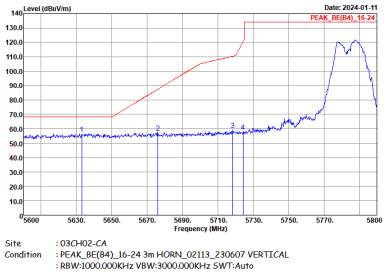
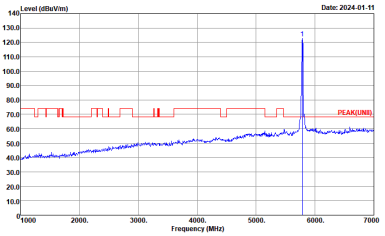
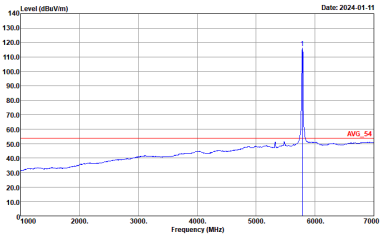
WIFI 802.11a (Band Edge @ 3m)

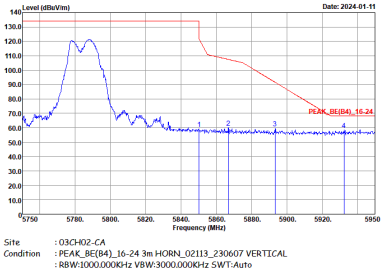
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2+3+4	Horizontal	Fundamental
Peak		
Avg	Left blank		

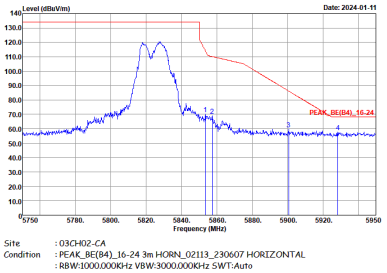
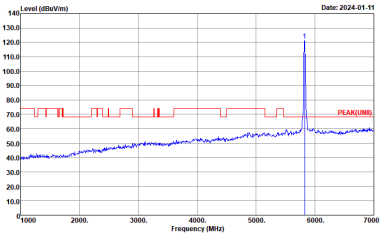
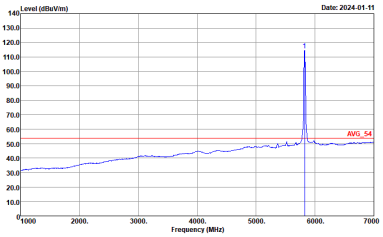
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2+3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN_02113_230607 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02113_230607 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02113_230607 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2+3+4	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN_02113_230607 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02113_230607 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02113_230607 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2+3+4	Vertical	Fundamental
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN_02113_230607 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02113_230607 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02113_230607 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto