FCC RADIO TEST REPORT

FCC ID	:	**A4RGPQQ7**
Equipment	:	**Phone**
Model Name	:	**GPQQ7**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, CA, 94043 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Nov. 12, 2025 and testing was performed from Nov. 18, 2025 to Feb. 24, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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History of this test report

Report No.	Version	Description	Issue Date
FR5N0809-01E	01	Initial issue of report	May 08, 2026
FR5N0809-01E	02	Revise appendix C1 This report is an updated version, replacing the report issued on May 08, 2026.	May 13, 2026
FR5N0809-01E	03	Revise appendix A1-1 page 33 and 43 This report is an updated version, replacing the report issued on May 13, 2026.	May 20, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
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	-
3.5	15.207	AC Conducted Emission	Pass	-
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: William Chen

Report Producer: Vina Su

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN, Bluetooth, BLE, BLE channel sounding, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS Rx. **Antenna Type** WLAN: **<Ant. 4>:** ILA Antenna **<Ant. 3>:** IFA Antenna

EUT Information List	
S/N	**Performed Test Item**
61041FDKY00019	RF Conducted Measurement
61031FDKY0000N	Radiated Spurious Emission
61031FDKY0000V	Conducted Emission

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 4: -1.7 Ant. 3: -1.1
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 4: -2.1 Ant. 3: 0.5
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 4: -2.9 Ant. 3: 0.1
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. 4: -1.4 Ant. 3: 1.6

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. The correlated antenna gain is provided by the MIMO antenna report using KDB 662911 D01 from manufacturer.

1.1.1 Antenna Directional Gain

<For CDD Mode>

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

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

For power measurements on IEEE 802.11 devices,

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

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

For PSD measurements, the directional gain calculation.

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

where

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

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

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

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

	Ant 4 (dBi)	Ant 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	-1.70	-1.10	-1.10	1.62	0.00	0.00
Band II	-2.10	0.50	0.50	2.31	0.00	0.00
Band III	-2.90	0.10	0.10	1.74	0.00	0.00
Band IV	-1.40	1.60	1.60	3.24	0.00	0.00

Calculation example:

If a device has two antenna, G_{ANT4} = -1.7 dBi; G_{ANT3} = -1.1 dBi

Directional gain of power measurement = max(-1.7, -1.1) + 0 = -1.1 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (-1.7 dBi / 20) + 10^ (-1.1 dBi / 20)] ^ 2 } / 2 }

= 1.62 dBi

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH16-HY

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

FCC designation No.: TW3786

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2020 + Cor.1-2023

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Y plane with Adapter for Band 1-3 and X plane with Adapter for Band 4 as worst plane.

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

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

2.2 Test Mode

This device supports WiFi 802.11ax 20MHz bandwidth for 2.4GHz and 80MHz bandwidth for both 5GHz and 6GHz.

This device supports both CDD and SDM modes.

For bands other than LPI and VLP, SDM mode is covered by CDD mode due to identical power level.

This device supports 26/52/106/242/484/996 single tone RU modes for 802.11ax mode and the 242/484/996-tone RU modes are covered by 20/40/80MHz channels.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

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

The power of 802.11ac mode are less than 802.11n mode, so all conducted and radiated tests are covered by 802.11n mode.

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

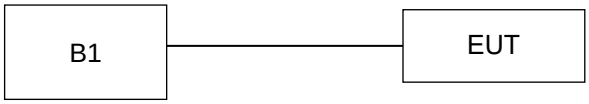
MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Channel 100 Tx + USB Cable 2 (Charging from AC Adapter)

Remark:
1. For Radiated Test Cases, the tests were performed with USB Cable 2.
2. The detailed Radiated test modes are shown in Appendix C.
3. During the preliminary test, both charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adaptor mode is the worst case for official test.
4. 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



Conduction Test Setup									
No.	Power Source	Connection Type	Test Mode						
			1	-	-	-	-	-	-
B1	AC : 120V/60Hz	AC Power Cable	X	-	-	-	-	-	-

Radiation Tx Test Setup									
No.	Power Source	Connection Type	Test Mode						
			1~99	-	-	-	-	-	-
B1	AC : 120V/60Hz	AC Power Cable	X	-	-	-	-	-	-

2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	N/A	GW8L7	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “BTWIFI_Final_version_240823” 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 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The 6 dB bandwidth shall be at least 500kHz for 5725-5850MHz.

There is no restriction limits for 26dB and 99% Occupied bandwidth.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

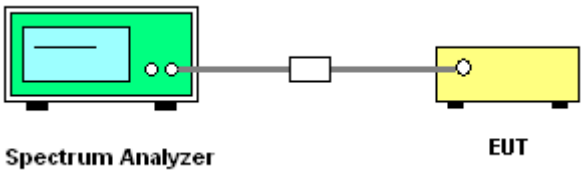
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 OBW and Section 12.5.2 Emission bandwidth.
2. Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max-hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.
9. For 6dB Bandwidth Measurement
   (1) The testing follows the ANSI C63.10 Section 12.5.1 Emission bandwidth for the band 5.725 GHz to 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.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

For the band 5.725–5.85 GHz bands:

■ The maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

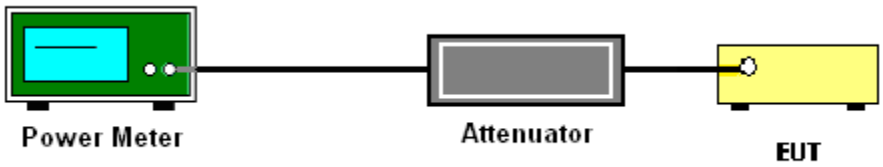
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the 5.725–5.85 GHz bands:

The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

For the band 5.15-5.725 GHz

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 = 1 MHz.
- Set VBW ≥ 3 MHz.
- 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 (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

For the band 5.725–5.85 GHz

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

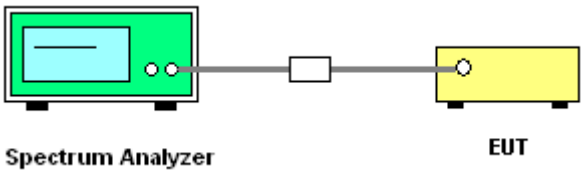
 # Method SA-2 #

(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.

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 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.
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	68.2

(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

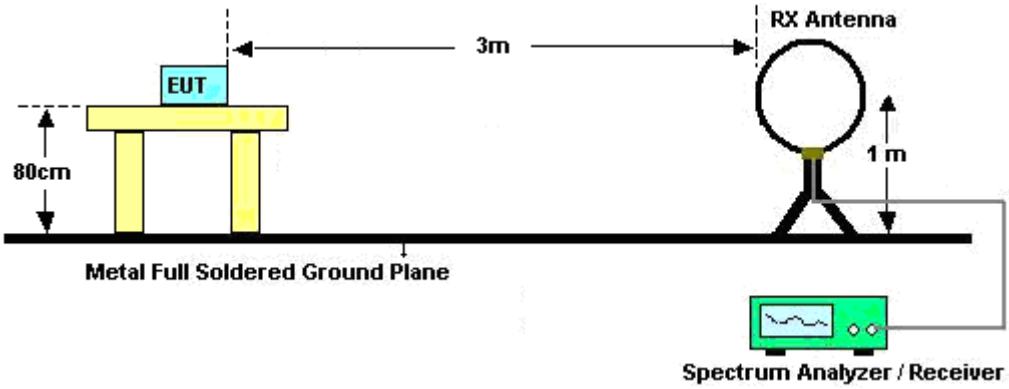
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

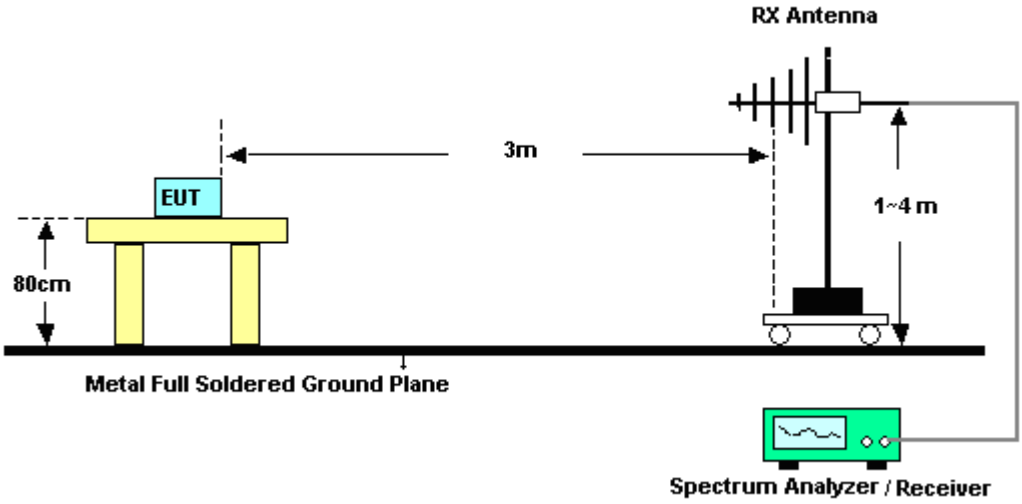
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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

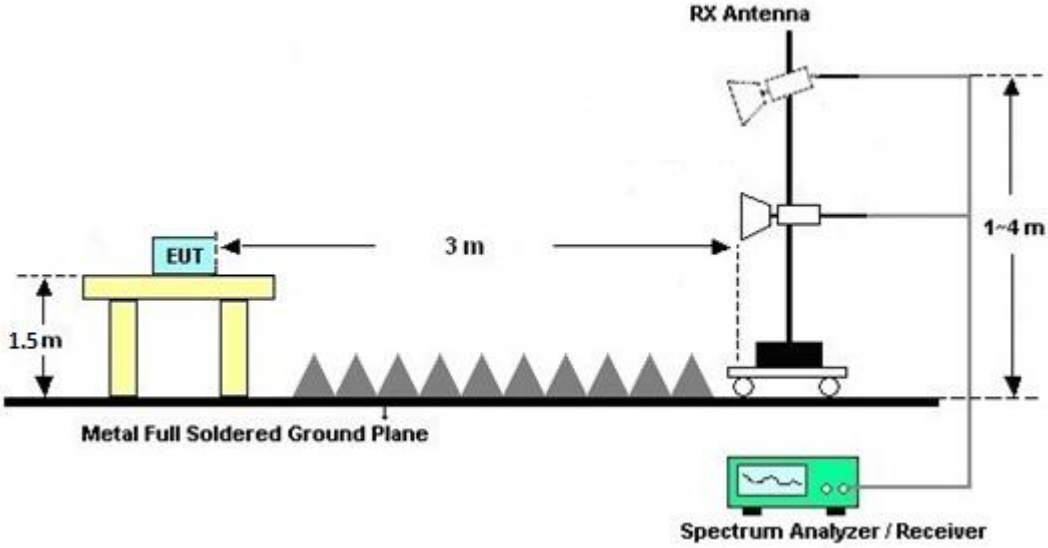
For radiated emissions below 30MHz



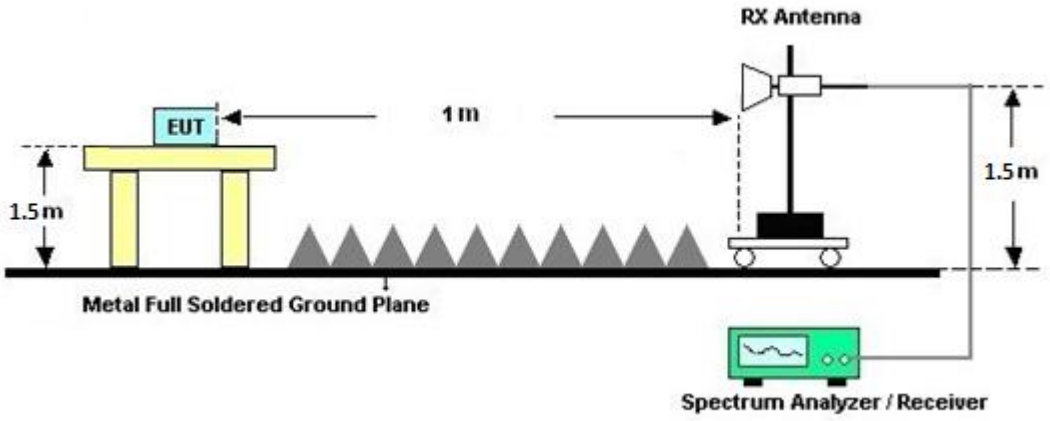
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.4.5 Test Results of Radiated Spurious 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 Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

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.

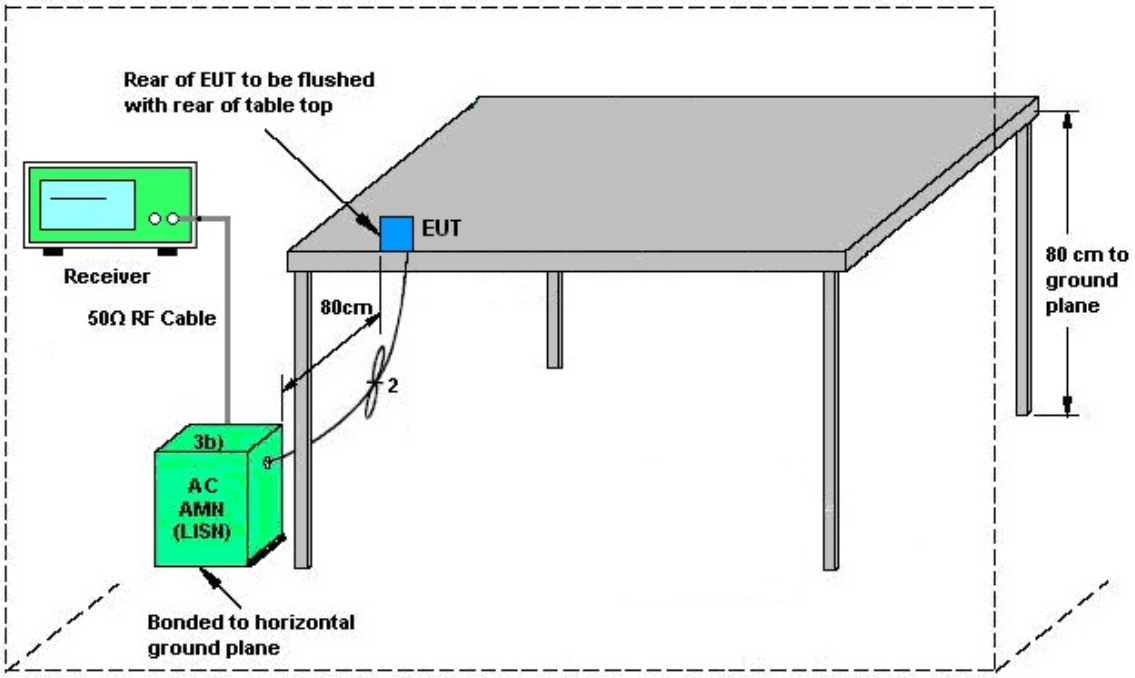
3.5.2 Measuring Instruments

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

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.6.2 Antenna Anti-Replacement Construction

b) Unique (non-standard) antenna connector.

Use of a standard connector is also allowed if the connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter, where such disassembly is not normally required. The user manual must not show that user has access to the connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9kHz~30MHz	Dec. 18, 2024	Nov. 18, 2025~ Dec. 10, 2025	Dec. 17, 2025	Radiation (03CH16-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9kHz~30MHz	Dec. 11, 2025	Dec. 11, 2025~ Feb. 24, 2026	Dec. 10, 2026	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 04, 2025	Nov. 18, 2025~ Feb. 24, 2026	Oct. 03, 2026	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 27, 2025	Nov. 18, 2025~ Feb. 24, 2026	Mar. 26, 2026	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	1225	18GHz-40GHz	Jul. 02, 2025	Nov. 18, 2025~ Feb. 24, 2026	Jul. 01, 2026	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Nov. 18, 2025	Nov. 18, 2025~ Feb. 24, 2026	Nov. 17, 2026	Radiation (03CH16-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 08, 2025	Nov. 18, 2025~ Nov. 25, 2025	Sep. 07, 2026	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 26, 2025	Nov. 26, 2025~ Feb. 24, 2026	Nov. 25, 2026	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jun. 30, 2025	Nov. 18, 2025~ Feb. 24, 2026	Jun. 29, 2026	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Sep. 12, 2025	Nov. 18, 2025~ Feb. 24, 2026	Sep. 11, 2026	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 24, 2024	Nov. 18, 2025~ Dec. 21, 2025	Dec. 23, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 22, 2025	Dec. 22, 2025~ Feb. 24, 2026	Dec. 21, 2026	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Nov. 18, 2025~ Feb. 24, 2026	May 25, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 14, 2025	Nov. 18, 2025~ Jan. 12, 2026	Jan. 13, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 13, 2026	Jan. 13, 2026~ Feb. 24, 2026	Jan. 12, 2027	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN27	6.75GHz High Pass Filter	Dec. 26, 2024	Nov. 18, 2025~ Dec. 21, 2025	Dec. 25, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN27	6.75GHz High Pass Filter	Dec. 22, 2025	Dec. 22, 2025~ Feb. 24, 2026	Dec. 21, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9kHz ~ 40GHz	Apr. 23, 2025	Nov. 18, 2025~ Feb. 24, 2026	Apr. 22, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLE X 104	EC-A5-300-5 757,805935/4 ,802434/4	30MHz~18GHz	Aug. 06, 2025	Nov. 18, 2025~ Feb. 24, 2026	Aug. 05, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40GHz	Dec. 31, 2024	Nov. 18, 2025~ Dec. 17, 2025	Dec. 30, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40GHz	Dec. 18, 2025	Dec. 18, 2025~ Feb. 24, 2026	Dec. 17, 2026	Radiation (03CH16-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303B	TP200881	N/A	Aug. 26, 2025	Nov. 18, 2025~ Jan. 22, 2026	Aug. 25, 2026	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP250716	N/A	Jan. 23, 2026	Jan. 23, 2026~ Feb. 24, 2026	Jan. 22, 2027	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Nov. 18, 2025~ Feb. 24, 2026	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Nov. 18, 2025~ Feb. 24, 2026	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 18, 2025~ Feb. 24, 2026	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 18, 2025~ Feb. 24, 2026	N/A	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Dec. 12, 2025~ Feb. 24, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Dec. 12, 2025~ Feb. 24, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Dec. 12, 2025~ Feb. 24, 2026	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Dec. 12, 2025~ Feb. 24, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Dec. 12, 2025~ Feb. 24, 2026	N/A	Conducted (TH05-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2025	Feb. 10, 2026	Oct. 19, 2026	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Feb. 10, 2026	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Feb. 10, 2026	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	Feb. 10, 2026	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 21, 2025	Feb. 10, 2026	Oct. 20, 2026	Conduction (CO07-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Feb. 10, 2026	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 10, 2026	N/A	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.5 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Howard Tsai	Temperature:	21~25	°C
Test Date:	2025/12/12~2026/02/24	Relative Humidity:	51~54	%

MIMO <Ant. 4+3>

<For Band 1-3>

TEST RESULTS DATA

26dB and 99% OBW

U-NII-1												
Mod.	Data Rate	NTX	CH.	Freq (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)	
					Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3
11a	6M	2	36	5180	17.88	18.00	29.07	31.64	-		22.52	
11a	6M	2	40	5200	22.94	24.67	39.16	42.45	-		23.01	
11a	6M	2	44	5220	26.70	25.05	44.79	43.71	-		23.01	
11a	6M	2	48	5240	18.63	19.26	33.64	35.70	-		22.70	
HT20	MCS0	2	36	5180	18.59	18.34	30.53	27.33	-		22.63	
HT20	MCS0	2	40	5200	24.53	25.25	43.86	41.91	-		23.01	
HT20	MCS0	2	44	5220	28.10	29.57	47.07	46.89	-		23.01	
HT20	MCS0	2	48	5240	19.35	19.52	36.40	40.54	-		22.87	
HT40	MCS0	2	38	5190	36.77	36.70	44.14	56.30	-		23.01	
HT40	MCS0	2	46	5230	38.25	38.79	76.46	78.06	-		23.01	
VHT80	MCS0	2	42	5210	75.60	75.52	83.26	82.78	-		23.01	

TEST RESULTS DATA

Average Power Table

FCC U-NII-1												
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass /Fail
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
11a	6M	2	36	5180	13.91	14.66	17.31	24.00		-1.10		Pass
11a	6M	2	40	5200	16.62	16.60	19.62	24.00		-1.10		Pass
11a	6M	2	44	5220	18.80	18.55	21.69	24.00		-1.10		Pass
11a	6M	2	48	5240	15.30	15.92	18.63	24.00		-1.10		Pass
HT20	MCS0	2	36	5180	12.93	13.80	16.40	24.00		-1.10		Pass
HT20	MCS0	2	40	5200	16.32	16.48	19.41	24.00		-1.10		Pass
HT20	MCS0	2	44	5220	16.95	17.20	20.09	24.00		-1.10		Pass
HT20	MCS0	2	48	5240	15.08	15.66	18.39	24.00		-1.10		Pass
HT40	MCS0	2	38	5190	12.42	12.94	15.70	24.00		-1.10		Pass
HT40	MCS0	2	46	5230	15.75	15.99	18.88	24.00		-1.10		Pass
VHT20	MCS0	2	36	5180	12.57	13.55	16.10	24.00		-1.10		Pass
VHT20	MCS0	2	40	5200	16.14	16.43	19.30	24.00		-1.10		Pass
VHT20	MCS0	2	44	5220	16.64	16.97	19.82	24.00		-1.10		Pass
VHT20	MCS0	2	48	5240	14.82	15.52	18.19	24.00		-1.10		Pass
VHT40	MCS0	2	38	5190	12.35	12.94	15.67	24.00		-1.10		Pass
VHT40	MCS0	2	46	5230	15.56	15.95	18.77	24.00		-1.10		Pass
VHT80	MCS0	2	42	5210	10.08	10.22	13.16	24.00		-1.10		Pass

TEST RESULTS DATA

Power Spectral Density

FCC U-NII-1														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
11a	6M	2	36	5180	0.02	0.02	-		6.57	11.00		1.62		Pass
11a	6M	2	40	5200	0.02	0.02	-		8.10	11.00		1.62		Pass
11a	6M	2	44	5220	0.02	0.02	-		10.94	11.00		1.62		Pass
11a	6M	2	48	5240	0.02	0.02	-		7.77	11.00		1.62		Pass
HT20	MCS0	2	36	5180	0.02	0.02	-		5.48	11.00		1.62		Pass
HT20	MCS0	2	40	5200	0.02	0.02	-		8.32	11.00		1.62		Pass
HT20	MCS0	2	44	5220	0.02	0.02	-		8.18	11.00		1.62		Pass
HT20	MCS0	2	48	5240	0.02	0.02	-		7.50	11.00		1.62		Pass
HT40	MCS0	2	38	5190	0.05	0.05	-		1.73	11.00		1.62		Pass
HT40	MCS0	2	46	5230	0.05	0.05	-		4.75	11.00		1.62		Pass
VHT80	MCS0	2	42	5210	0.09	0.09	-		-3.29	11.00		1.62		Pass

TEST RESULTS DATA

26dB and 99% OBW

U-NII-2A														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)	
					Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3
11a	6M	2	52	5260	35.39	34.77	52.36	52.70	23.98		30.00		23.98	
11a	6M	2	56	5280	28.24	31.24	44.66	49.13	23.98		30.00		23.98	
11a	6M	2	60	5300	21.60	23.70	39.48	39.11	23.98		30.00		23.98	
11a	6M	2	64	5320	17.69	17.53	26.79	29.16	23.44		29.44		23.98	
HT20	MCS0	2	52	5260	36.87	35.89	58.76	56.09	23.98		30.00		23.98	
HT20	MCS0	2	56	5280	27.48	29.59	46.31	48.26	23.98		30.00		23.98	
HT20	MCS0	2	60	5300	22.45	23.77	43.31	42.64	23.98		30.00		23.98	
HT20	MCS0	2	64	5320	18.62	18.32	29.42	29.87	23.63		29.63		23.98	
HT40	MCS0	2	54	5270	37.20	38.43	62.10	79.44	23.98		30.00		23.98	
HT40	MCS0	2	62	5310	36.70	36.57	41.25	41.04	23.98		30.00		23.98	
VHT80	MCS0	2	58	5290	75.59	75.43	83.04	82.94	23.98		30.00		23.98	

TEST RESULTS DATA

Average Power Table

FCC U-NII-2A													
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass /Fail
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3		
11a	6M	2	52	5260	18.52	18.43	21.49	23.98		0.50		30.00	Pass
11a	6M	2	56	5280	17.30	17.95	20.65	23.98		0.50		30.00	Pass
11a	6M	2	60	5300	16.16	17.10	19.67	23.98		0.50		30.00	Pass
11a	6M	2	64	5320	13.33	14.62	17.03	23.98		0.50		30.00	Pass
HT20	MCS0	2	52	5260	18.46	18.36	21.42	23.98		0.50		30.00	Pass
HT20	MCS0	2	56	5280	17.07	17.61	20.36	23.98		0.50		30.00	Pass
HT20	MCS0	2	60	5300	16.39	17.02	19.73	23.98		0.50		30.00	Pass
HT20	MCS0	2	64	5320	13.37	14.56	17.02	23.98		0.50		30.00	Pass
HT40	MCS0	2	54	5270	14.47	15.92	18.27	23.98		0.50		30.00	Pass
HT40	MCS0	2	62	5310	10.10	11.90	14.10	23.98		0.50		30.00	Pass
VHT20	MCS0	2	52	5260	17.94	18.35	21.16	23.98		0.50		30.00	Pass
VHT20	MCS0	2	56	5280	16.88	17.49	20.21	23.98		0.50		30.00	Pass
VHT20	MCS0	2	60	5300	16.06	17.01	19.57	23.98		0.50		30.00	Pass
VHT20	MCS0	2	64	5320	13.22	14.37	16.84	23.98		0.50		30.00	Pass
VHT40	MCS0	2	54	5270	14.19	15.54	17.93	23.98		0.50		30.00	Pass
VHT40	MCS0	2	62	5310	10.00	11.83	14.02	23.98		0.50		30.00	Pass
VHT80	MCS0	2	58	5290	9.68	11.20	13.52	23.98		0.50		30.00	Pass

TEST RESULTS DATA

Power Spectral Density

FCC U-NII-2A														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
11a	6M	2	52	5260	0.02	0.02	-		10.30	11.00		2.31		Pass
11a	6M	2	56	5280	0.02	0.02	-		9.73	11.00		2.31		Pass
11a	6M	2	60	5300	0.02	0.02	-		8.67	11.00		2.31		Pass
11a	6M	2	64	5320	0.02	0.02	-		6.23	11.00		2.31		Pass
HT20	MCS0	2	52	5260	0.02	0.02	-		9.82	11.00		2.31		Pass
HT20	MCS0	2	56	5280	0.02	0.02	-		9.19	11.00		2.31		Pass
HT20	MCS0	2	60	5300	0.02	0.02	-		8.44	11.00		2.31		Pass
HT20	MCS0	2	64	5320	0.02	0.02	-		5.89	11.00		2.31		Pass
HT40	MCS0	2	54	5270	0.05	0.05	-		4.21	11.00		2.31		Pass
HT40	MCS0	2	62	5310	0.05	0.05	-		-0.10	11.00		2.31		Pass
VHT80	MCS0	2	58	5290	0.09	0.09	-		-3.50	11.00		2.31		Pass

TEST RESULTS DATA

26dB and 99% OBW

U-NII-2C																
Mod.	Data Rate	NTX	CH.	Freq (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3
11a	6M	2	100	5500	18.22	18.12	31.86	32.79	23.58		29.58		23.98		----	
11a	6M	2	116	5580	32.53	34.09	51.61	54.66	23.98		30.00		23.98		----	
11a	6M	2	136	5680	18.82	19.91	35.38	36.51	23.75		29.75		23.98		----	
11a	6M	2	140	5700	17.64	17.52	26.56	29.42	23.44		29.44		23.98		----	
HT20	MCS0	2	100	5500	18.98	18.72	36.90	35.94	23.72		29.72		23.98		----	
HT20	MCS0	2	116	5580	33.73	34.73	54.97	61.32	23.98		30.00		23.98		----	
HT20	MCS0	2	136	5680	19.56	20.38	38.19	37.62	23.91		29.91		23.98		----	
HT20	MCS0	2	140	5700	18.48	18.13	25.18	24.86	23.58		29.58		23.98		----	
HT40	MCS0	2	102	5510	36.85	36.75	48.96	54.14	23.98		30.00		23.98		----	
HT40	MCS0	2	110	5550	43.94	49.29	90.51	92.27	23.98		30.00		23.98		----	
HT40	MCS0	2	134	5670	36.85	37.02	52.88	66.77	23.98		30.00		23.98		----	
VHT80	MCS0	2	106	5530	75.73	75.65	83.42	83.07	23.98		30.00		23.98		----	
VHT80	MCS0	2	122	5610	76.04	76.03	118.18	135.14	23.98		30.00		23.98		----	

U-NII-2C straddle channel																
Mod.	Data Rate	NTX	CH.	Freq (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3
11a	6M	2	144	5720	19.81	21.75	28.41	34.94	23.98		30.00		23.98		2.94	3.20
HT20	MCS0	2	144	5720	21.61	23.04	30.65	37.48	23.98		30.00		23.98		3.40	3.81
HT40	MCS0	2	142	5710	43.00	48.00	63.38	67.21	23.98		30.00		23.98		2.60	3.19
VHT80	MCS0	2	138	5690	73.46	74.33	110.65	123.67	23.98		30.00		23.98		2.60	2.58
6dB Bandwidth Limit ≧ 500kHz																Pass

TEST RESULTS DATA

Average Power Table

FCC U-NII-2C													
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass /Fail
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3		
11a	6M	2	100	5500	15.19	16.23	18.75	23.98		0.10		30.00	Pass
11a	6M	2	116	5580	18.32	18.93	21.65	23.98		0.10		30.00	Pass
11a	6M	2	136	5680	16.41	17.29	19.88	23.98		0.10		30.00	Pass
11a	6M	2	140	5700	13.62	14.96	17.35	23.98		0.10		30.00	Pass
HT20	MCS0	2	100	5500	14.87	16.10	18.54	23.98		0.10		30.00	Pass
HT20	MCS0	2	116	5580	18.28	18.90	21.61	23.98		0.10		30.00	Pass
HT20	MCS0	2	136	5680	16.19	17.17	19.72	23.98		0.10		30.00	Pass
HT20	MCS0	2	140	5700	12.80	14.00	16.45	23.98		0.10		30.00	Pass
HT40	MCS0	2	102	5510	12.78	14.40	16.68	23.98		0.10		30.00	Pass
HT40	MCS0	2	110	5550	16.68	18.02	20.41	23.98		0.10		30.00	Pass
HT40	MCS0	2	134	5670	13.82	15.20	17.57	23.98		0.10		30.00	Pass
VHT20	MCS0	2	100	5500	14.70	15.87	18.33	23.98		0.10		30.00	Pass
VHT20	MCS0	2	116	5580	17.83	18.69	21.29	23.98		0.10		30.00	Pass
VHT20	MCS0	2	136	5680	15.93	17.16	19.60	23.98		0.10		30.00	Pass
VHT20	MCS0	2	140	5700	12.33	13.71	16.08	23.98		0.10		30.00	Pass
VHT40	MCS0	2	102	5510	12.55	13.82	16.24	23.98		0.10		30.00	Pass
VHT40	MCS0	2	110	5550	16.50	17.82	20.22	23.98		0.10		30.00	Pass
VHT40	MCS0	2	134	5670	13.50	14.87	17.25	23.98		0.10		30.00	Pass
VHT80	MCS0	2	106	5530	11.87	13.06	15.52	23.98		0.10		30.00	Pass
VHT80	MCS0	2	122	5610	14.63	15.71	18.21	23.98		0.10		30.00	Pass

FCC U-NII-2C straddle channel													
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass /Fail
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3		
11a	6M	2	144	5720	18.51	18.91	21.72	23.98		0.10		30.00	Pass
HT20	MCS0	2	144	5720	18.82	18.97	21.91	23.98		0.10		30.00	Pass
HT40	MCS0	2	142	5710	18.31	18.96	21.66	23.98		0.10		30.00	Pass
VHT20	MCS0	2	144	5720	18.44	18.66	21.56	23.98		0.10		30.00	Pass
VHT40	MCS0	2	142	5710	18.03	18.93	21.51	23.98		0.10		30.00	Pass
VHT80	MCS0	2	138	5690	17.10	17.91	20.53	23.98		0.10		30.00	Pass

TEST RESULTS DATA

Power Spectral Density

FCC U-NII-2C														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
11a	6M	2	100	5500	0.02	0.02	-		7.64	11.00		1.74		Pass
11a	6M	2	116	5580	0.02	0.02	-		10.39	11.00		1.74		Pass
11a	6M	2	136	5680	0.02	0.02	-		9.04	11.00		1.74		Pass
11a	6M	2	140	5700	0.02	0.02	-		6.62	11.00		1.74		Pass
HT20	MCS0	2	100	5500	0.02	0.02	-		7.42	11.00		1.74		Pass
HT20	MCS0	2	116	5580	0.02	0.02	-		10.28	11.00		1.74		Pass
HT20	MCS0	2	136	5680	0.02	0.02	-		8.69	11.00		1.74		Pass
HT20	MCS0	2	140	5700	0.02	0.02	-		5.39	11.00		1.74		Pass
HT40	MCS0	2	102	5510	0.05	0.05	-		2.48	11.00		1.74		Pass
HT40	MCS0	2	110	5550	0.05	0.05	-		6.19	11.00		1.74		Pass
HT40	MCS0	2	134	5670	0.05	0.05	-		3.46	11.00		1.74		Pass
VHT80	MCS0	2	106	5530	0.09	0.09	-		-1.32	11.00		1.74		Pass
VHT80	MCS0	2	122	5610	0.09	0.09	-		1.42	11.00		1.74		Pass

FCC U-NII-2C straddle channel														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
11a	6M	2	144	5720	0.02	0.02	-		10.59	11.00		1.74		Pass
HT20	MCS0	2	144	5720	0.02	0.02	-		10.58	11.00		1.74		Pass
HT40	MCS0	2	142	5710	0.05	0.05	-		7.34	11.00		1.74		Pass
VHT80	MCS0	2	138	5690	0.09	0.09	-		3.52	11.00		1.74		Pass

TEST RESULTS DATA

26dB and 99% OBW

U-NII-1													
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)	
						Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3
HE20	MCS0	2	36	5180	Full	19.12	19.19	24.39	27.14	-		22.81	
HE20	MCS0	2	40	5200	Full	19.99	21.69	38.32	44.68	-		23.01	
HE20	MCS0	2	44	5220	Full	26.51	29.36	45.83	49.77	-		23.01	
HE20	MCS0	2	48	5240	Full	19.44	19.73	34.88	37.22	-		22.89	
HE40	MCS0	2	38	5190	Full	37.80	37.85	41.14	40.96	-		23.01	
HE40	MCS0	2	46	5230	Full	38.47	38.75	74.08	76.10	-		23.01	
HE80	MCS0	2	42	5210	Full	77.01	77.13	82.94	83.33	-		23.01	

TEST RESULTS DATA

Average Power Table

FCC U-NII-1													
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass /Fail
						Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	36	5180	Full	12.91	13.79	16.38	24.00		-1.10		Pass
HE20	MCS0	2	36	5180	26RU/0	4.75	4.96	7.87	24.00		-1.10		Pass
HE20	MCS0	2	36	5180	52RU/37	7.01	7.63	10.34	24.00		-1.10		Pass
HE20	MCS0	2	36	5180	106RU/53	10.22	10.79	13.52	24.00		-1.10		Pass
HE20	MCS0	2	40	5200	Full	16.28	16.34	19.32	24.00		-1.10		Pass
HE20	MCS0	2	40	5200	26RU/0	7.76	7.31	10.55	24.00		-1.10		Pass
HE20	MCS0	2	40	5200	52RU/37	10.81	10.68	13.76	24.00		-1.10		Pass
HE20	MCS0	2	40	5200	106RU/53	13.36	14.08	16.75	24.00		-1.10		Pass
HE20	MCS0	2	44	5220	Full	17.27	17.57	20.43	24.00		-1.10		Pass
HE20	MCS0	2	44	5220	26RU/4	9.25	9.86	12.58	24.00		-1.10		Pass
HE20	MCS0	2	44	5220	52RU/38	10.62	11.17	13.91	24.00		-1.10		Pass
HE20	MCS0	2	44	5220	106RU/53	14.60	15.03	17.83	24.00		-1.10		Pass
HE20	MCS0	2	48	5240	Full	15.37	16.03	18.72	24.00		-1.10		Pass
HE20	MCS0	2	48	5240	26RU/8	7.08	7.01	10.06	24.00		-1.10		Pass
HE20	MCS0	2	48	5240	52RU/40	9.42	10.25	12.87	24.00		-1.10		Pass
HE20	MCS0	2	48	5240	106RU/54	12.32	13.36	15.88	24.00		-1.10		Pass
HE40	MCS0	2	38	5190	Full	12.28	12.87	15.60	24.00		-1.10		Pass
HE40	MCS0	2	46	5230	Full	15.80	16.15	18.99	24.00		-1.10		Pass
HE80	MCS0	2	42	5210	Full	10.19	10.97	13.61	24.00		-1.10		Pass

TEST RESULTS DATA

Power Spectral Density

FCC U-NII-1																
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	36	5180	Full	0.03	0.03	-		5.02	11.00		1.62		Pass
HE20	MCS0	2	36	5180	26RU/0	0.09	0.09	-		4.98	11.00		1.62		Pass
HE20	MCS0	2	36	5180	52RU/37	0.09	0.09	-		4.70	11.00		1.62		Pass
HE20	MCS0	2	36	5180	106RU/53	0.10	0.10	-		4.93	11.00		1.62		Pass
HE20	MCS0	2	40	5200	Full	0.03	0.03	-		7.93	11.00		1.62		Pass
HE20	MCS0	2	40	5200	26RU/0	0.09	0.09	-		7.71	11.00		1.62		Pass
HE20	MCS0	2	40	5200	52RU/37	0.09	0.09	-		7.84	11.00		1.62		Pass
HE20	MCS0	2	40	5200	106RU/53	0.10	0.10	-		7.58	11.00		1.62		Pass
HE20	MCS0	2	44	5220	Full	0.03	0.03	-		8.31	11.00		1.62		Pass
HE20	MCS0	2	44	5220	26RU/4	0.09	0.09	-		7.93	11.00		1.62		Pass
HE20	MCS0	2	44	5220	52RU/38	0.09	0.09	-		8.25	11.00		1.62		Pass
HE20	MCS0	2	44	5220	106RU/53	0.10	0.10	-		7.84	11.00		1.62		Pass
HE20	MCS0	2	48	5240	Full	0.03	0.03	-		7.33	11.00		1.62		Pass
HE20	MCS0	2	48	5240	26RU/8	0.09	0.09	-		7.28	11.00		1.62		Pass
HE20	MCS0	2	48	5240	52RU/40	0.09	0.09	-		7.28	11.00		1.62		Pass
HE20	MCS0	2	48	5240	106RU/54	0.10	0.10	-		6.86	11.00		1.62		Pass
HE40	MCS0	2	38	5190	Full	0.06	0.06	-		1.61	11.00		1.62		Pass
HE40	MCS0	2	46	5230	Full	0.06	0.06	-		4.82	11.00		1.62		Pass
HE80	MCS0	2	42	5210	Full	0.12	0.12	-		-3.11	11.00		1.62		Pass

TEST RESULTS DATA

26dB and 99% OBW

U-NII-2A															
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)	
						Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3
HE20	MCS0	2	52	5260	Full	38.08	38.01	59.08	61.70	23.98		30.00		23.98	
HE20	MCS0	2	56	5280	Full	26.80	30.40	46.70	51.94	23.98		30.00		23.98	
HE20	MCS0	2	60	5300	Full	19.77	20.77	37.45	44.02	23.96		29.96		23.98	
HE20	MCS0	2	64	5320	Full	19.14	19.15	22.72	28.21	23.82		29.82		23.98	
HE40	MCS0	2	54	5270	Full	37.98	38.48	60.10	72.03	23.98		30.00		23.98	
HE40	MCS0	2	62	5310	Full	37.73	37.74	41.12	40.93	23.98		30.00		23.98	
HE80	MCS0	2	58	5290	Full	76.98	77.06	83.46	83.42	23.98		30.00		23.98	

TEST RESULTS DATA

Average Power Table

FCC U-NII-2A														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass /Fail
						Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3		
HE20	MCS0	2	52	5260	Full	18.84	18.74	21.80	23.98		0.50		30.00	Pass
HE20	MCS0	2	52	5260	26RU/0	8.86	9.91	12.43	23.98		0.50		30.00	Pass
HE20	MCS0	2	52	5260	52RU/37	11.84	13.28	15.63	23.98		0.50		30.00	Pass
HE20	MCS0	2	52	5260	106RU/53	14.88	15.82	18.39	23.98		0.50		30.00	Pass
HE20	MCS0	2	56	5280	Full	17.22	17.86	20.56	23.98		0.50		30.00	Pass
HE20	MCS0	2	56	5280	26RU/4	9.31	10.26	12.82	23.98		0.50		30.00	Pass
HE20	MCS0	2	56	5280	52RU/38	10.65	11.55	14.13	23.98		0.50		30.00	Pass
HE20	MCS0	2	56	5280	106RU/53	14.15	15.15	17.69	23.98		0.50		30.00	Pass
HE20	MCS0	2	60	5300	Full	15.85	16.88	19.41	23.98		0.50		30.00	Pass
HE20	MCS0	2	60	5300	26RU/4	7.69	9.12	11.47	23.98		0.50		30.00	Pass
HE20	MCS0	2	60	5300	52RU/38	10.13	11.14	13.67	23.98		0.50		30.00	Pass
HE20	MCS0	2	60	5300	106RU/53	13.22	14.18	16.74	23.98		0.50		30.00	Pass
HE20	MCS0	2	64	5320	Full	13.14	14.32	16.78	23.98		0.50		30.00	Pass
HE20	MCS0	2	64	5320	26RU/8	4.63	5.55	8.12	23.98		0.50		30.00	Pass
HE20	MCS0	2	64	5320	52RU/40	7.40	8.55	11.02	23.98		0.50		30.00	Pass
HE20	MCS0	2	64	5320	106RU/54	10.55	11.53	14.08	23.98		0.50		30.00	Pass
HE40	MCS0	2	54	5270	Full	14.52	15.86	18.25	23.98		0.50		30.00	Pass
HE40	MCS0	2	62	5310	Full	10.58	12.34	14.56	23.98		0.50		30.00	Pass
HE80	MCS0	2	58	5290	Full	10.03	11.47	13.82	23.98		0.50		30.00	Pass

TEST RESULTS DATA

Power Spectral Density

FCC U-NII-2A															
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	52	5260	Full	0.03	0.03	-		9.76	11.00		2.31		Pass
HE20	MCS0	2	52	5260	26RU/0	0.09	0.09	-		9.62	11.00		2.31		Pass
HE20	MCS0	2	52	5260	52RU/37	0.09	0.09	-		9.50	11.00		2.31		Pass
HE20	MCS0	2	52	5260	106RU/53	0.10	0.10	-		9.45	11.00		2.31		Pass
HE20	MCS0	2	56	5280	Full	0.03	0.03	-		9.00	11.00		2.31		Pass
HE20	MCS0	2	56	5280	26RU/4	0.09	0.09	-		8.93	11.00		2.31		Pass
HE20	MCS0	2	56	5280	52RU/38	0.09	0.09	-		8.38	11.00		2.31		Pass
HE20	MCS0	2	56	5280	106RU/53	0.10	0.10	-		8.53	11.00		2.31		Pass
HE20	MCS0	2	60	5300	Full	0.03	0.03	-		7.87	11.00		2.31		Pass
HE20	MCS0	2	60	5300	26RU/4	0.09	0.09	-		7.60	11.00		2.31		Pass
HE20	MCS0	2	60	5300	52RU/38	0.09	0.09	-		7.83	11.00		2.31		Pass
HE20	MCS0	2	60	5300	106RU/53	0.10	0.10	-		7.53	11.00		2.31		Pass
HE20	MCS0	2	64	5320	Full	0.03	0.03	-		5.44	11.00		2.31		Pass
HE20	MCS0	2	64	5320	26RU/8	0.09	0.09	-		5.34	11.00		2.31		Pass
HE20	MCS0	2	64	5320	52RU/40	0.09	0.09	-		5.35	11.00		2.31		Pass
HE20	MCS0	2	64	5320	106RU/54	0.10	0.10	-		5.34	11.00		2.31		Pass
HE40	MCS0	2	54	5270	Full	0.06	0.06	-		4.11	11.00		2.31		Pass
HE40	MCS0	2	62	5310	Full	0.06	0.06	-		0.23	11.00		2.31		Pass
HE80	MCS0	2	58	5290	Full	0.12	0.12	-		-3.32	11.00		2.31		Pass

TEST RESULTS DATA

26dB and 99% OBW

U-NII-2C																	
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3
HE20	MCS0	2	100	5500	Full	19.21	19.26	27.76	28.22	23.84		29.84		23.98		----	
HE20	MCS0	2	116	5580	Full	34.34	35.46	56.24	67.30	23.98		30.00		23.98		----	
HE20	MCS0	2	136	5680	Full	19.31	19.65	40.60	37.33	23.86		29.86		23.98		----	
HE20	MCS0	2	140	5700	Full	19.06	19.05	21.58	21.22	23.80		29.80		23.98		----	
HE40	MCS0	2	102	5510	Full	37.85	37.92	41.38	48.56	23.98		30.00		23.98		----	
HE40	MCS0	2	110	5550	Full	40.47	45.42	75.46	81.33	23.98		30.00		23.98		----	
HE40	MCS0	2	134	5670	Full	37.86	38.08	50.02	60.08	23.98		30.00		23.98		----	
HE80	MCS0	2	106	5530	Full	77.14	77.28	83.52	83.30	23.98		30.00		23.98		----	
HE80	MCS0	2	122	5610	Full	77.37	77.55	110.24	122.27	23.98		30.00		23.98		----	

U-NII-2C straddle channel																	
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3
HE20	MCS0	2	144	5720	Full	20.69	22.76	30.42	35.83	23.98		30.00		23.98		4.14	4.07
HE40	MCS0	2	142	5710	Full	43.26	47.81	66.15	67.59	23.98		30.00		23.98		3.49	3.67
HE80	MCS0	2	138	5690	Full	74.11	75.08	105.46	118.62	23.98		30.00		23.98		3.66	2.58
6dB Bandwidth Limit ≧ 500kHz																Pass	

TEST RESULTS DATA

Average Power Table

FCC U-NII-2C														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass /Fail
						Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3		
HE20	MCS0	2	100	5500	Full	14.35	15.65	18.06	23.98		0.10		30.00	Pass
HE20	MCS0	2	100	5500	26RU/0	5.92	6.66	9.32	23.98		0.10		30.00	Pass
HE20	MCS0	2	100	5500	52RU/37	8.77	9.71	12.28	23.98		0.10		30.00	Pass
HE20	MCS0	2	100	5500	106RU/53	10.50	11.37	13.97	23.98		0.10		30.00	Pass
HE20	MCS0	2	116	5580	Full	18.63	19.00	21.83	23.98		0.10		30.00	Pass
HE20	MCS0	2	116	5580	26RU/4	10.54	11.63	14.13	23.98		0.10		30.00	Pass
HE20	MCS0	2	116	5580	52RU/38	12.50	13.43	16.00	23.98		0.10		30.00	Pass
HE20	MCS0	2	116	5580	106RU/53	15.38	16.25	18.85	23.98		0.10		30.00	Pass
HE20	MCS0	2	136	5680	Full	15.40	16.82	19.18	23.98		0.10		30.00	Pass
HE20	MCS0	2	136	5680	26RU/8	7.38	7.83	10.62	23.98		0.10		30.00	Pass
HE20	MCS0	2	136	5680	52RU/40	10.18	10.63	13.42	23.98		0.10		30.00	Pass
HE20	MCS0	2	136	5680	106RU/54	12.73	14.36	16.63	23.98		0.10		30.00	Pass
HE20	MCS0	2	140	5700	Full	11.80	12.00	14.91	23.98		0.10		30.00	Pass
HE20	MCS0	2	140	5700	26RU/8	2.81	3.25	6.05	23.98		0.10		30.00	Pass
HE20	MCS0	2	140	5700	52RU/40	5.33	6.17	8.78	23.98		0.10		30.00	Pass
HE20	MCS0	2	140	5700	106RU/54	8.75	9.41	12.10	23.98		0.10		30.00	Pass
HE40	MCS0	2	102	5510	Full	13.23	14.67	17.02	23.98		0.10		30.00	Pass
HE40	MCS0	2	110	5550	Full	16.88	17.92	20.44	23.98		0.10		30.00	Pass
HE40	MCS0	2	134	5670	Full	14.40	15.70	18.11	23.98		0.10		30.00	Pass
HE80	MCS0	2	106	5530	Full	12.27	13.44	15.90	23.98		0.10		30.00	Pass
HE80	MCS0	2	122	5610	Full	14.70	15.78	18.28	23.98		0.10		30.00	Pass

FCC U-NII-2C straddle channel														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass /Fail
						Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3		
HE20	MCS0	2	144	5720	Full	18.74	18.86	21.81	23.98		0.10		30.00	Pass
HE20	MCS0	2	144	5720	26RU/8	9.54	9.72	12.64	23.98		0.10		30.00	Pass
HE20	MCS0	2	144	5720	52RU/40	12.16	13.31	15.78	23.98		0.10		30.00	Pass
HE20	MCS0	2	144	5720	106RU/54	15.27	16.07	18.70	23.98		0.10		30.00	Pass
HE40	MCS0	2	142	5710	Full	18.40	18.98	21.71	23.98		0.10		30.00	Pass
HE80	MCS0	2	138	5690	Full	17.13	17.92	20.55	23.98		0.10		30.00	Pass

TEST RESULTS DATA

Power Spectral Density

FCC U-NII-2C															
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	100	5500	Full	0.03	0.03	-		6.64	11.00		1.74		Pass
HE20	MCS0	2	100	5500	26RU/0	0.09	0.09	-		6.31	11.00		1.74		Pass
HE20	MCS0	2	100	5500	52RU/37	0.09	0.09	-		6.55	11.00		1.74		Pass
HE20	MCS0	2	100	5500	106RU/53	0.10	0.10	-		5.15	11.00		1.74		Pass
HE20	MCS0	2	116	5580	Full	0.03	0.03	-		10.04	11.00		1.74		Pass
HE20	MCS0	2	116	5580	26RU/4	0.09	0.09	-		9.92	11.00		1.74		Pass
HE20	MCS0	2	116	5580	52RU/38	0.09	0.09	-		9.60	11.00		1.74		Pass
HE20	MCS0	2	116	5580	106RU/53	0.10	0.10	-		9.61	11.00		1.74		Pass
HE20	MCS0	2	136	5680	Full	0.03	0.03	-		7.93	11.00		1.74		Pass
HE20	MCS0	2	136	5680	26RU/8	0.09	0.09	-		7.87	11.00		1.74		Pass
HE20	MCS0	2	136	5680	52RU/40	0.09	0.09	-		7.84	11.00		1.74		Pass
HE20	MCS0	2	136	5680	106RU/54	0.10	0.10	-		7.51	11.00		1.74		Pass
HE20	MCS0	2	140	5700	Full	0.03	0.03	-		3.56	11.00		1.74		Pass
HE20	MCS0	2	140	5700	26RU/8	0.09	0.09	-		3.31	11.00		1.74		Pass
HE20	MCS0	2	140	5700	52RU/40	0.09	0.09	-		3.20	11.00		1.74		Pass
HE20	MCS0	2	140	5700	106RU/54	0.10	0.10	-		3.54	11.00		1.74		Pass
HE40	MCS0	2	102	5510	Full	0.06	0.06	-		2.78	11.00		1.74		Pass
HE40	MCS0	2	110	5550	Full	0.06	0.06	-		6.14	11.00		1.74		Pass
HE40	MCS0	2	134	5670	Full	0.06	0.06	-		3.88	11.00		1.74		Pass
HE80	MCS0	2	106	5530	Full	0.12	0.12	-		-0.98	11.00		1.74		Pass
HE80	MCS0	2	122	5610	Full	0.12	0.12	-		1.41	11.00		1.74		Pass

FCC U-NII-2C straddle channel															
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	144	5720	Full	0.03	0.03	-		10.20	11.00		1.74		Pass
HE20	MCS0	2	144	5720	26RU/8	0.09	0.09	-		9.80	11.00		1.74		Pass
HE20	MCS0	2	144	5720	52RU/40	0.09	0.09	-		9.78	11.00		1.74		Pass
HE20	MCS0	2	144	5720	106RU/54	0.10	0.10	-		9.73	11.00		1.74		Pass
HE40	MCS0	2	142	5710	Full	0.06	0.06	-		7.27	11.00		1.74		Pass
HE80	MCS0	2	138	5690	Full	0.12	0.12	-		3.53	11.00		1.74		Pass

<For Band 4>

TEST RESULTS DATA

6dB and 26dB EBW and 99% OBW

U-NII-3												
Mod.	Data Rate	NTX	CH.	Freq (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min Limit (MHz)	Pass /Fail
					Ant4	Ant3	Ant4	Ant3	Ant4	Ant3		
11a	6M	2	149	5745	28.85	27.20	46.13	44.44	16.34	16.28	0.5	Pass
11a	6M	2	157	5785	29.82	29.30	46.23	44.82	16.30	16.28	0.5	Pass
11a	6M	2	165	5825	29.03	28.04	44.42	44.44	16.31	15.70	0.5	Pass
HT20	MCS0	2	149	5745	30.77	27.69	48.14	45.74	16.28	17.55	0.5	Pass
HT20	MCS0	2	157	5785	30.96	29.47	47.86	46.10	16.70	16.62	0.5	Pass
HT20	MCS0	2	165	5825	31.19	29.73	48.65	47.37	16.91	17.56	0.5	Pass
HT40	MCS0	2	151	5755	60.21	56.17	98.08	96.56	35.13	36.32	0.5	Pass
HT40	MCS0	2	159	5795	59.30	58.08	95.76	96.21	35.10	36.32	0.5	Pass
VHT80	MCS0	2	155	5775	76.66	76.57	147.01	155.62	75.20	75.18	0.5	Pass

TEST RESULTS DATA

Average Power Table

FCC U-NII-3												
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass /Fail
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
11a	6M	2	149	5745	18.96	18.22	21.62	30.00		1.60		Pass
11a	6M	2	157	5785	18.99	18.33	21.68	30.00		1.60		Pass
11a	6M	2	165	5825	18.79	18.31	21.57	30.00		1.60		Pass
HT20	MCS0	2	149	5745	18.70	18.18	21.46	30.00		1.60		Pass
HT20	MCS0	2	157	5785	18.88	18.22	21.57	30.00		1.60		Pass
HT20	MCS0	2	165	5825	18.75	18.35	21.56	30.00		1.60		Pass
HT40	MCS0	2	151	5755	18.73	18.40	21.58	30.00		1.60		Pass
HT40	MCS0	2	159	5795	18.91	18.17	21.57	30.00		1.60		Pass
VHT20	MCS0	2	149	5745	18.47	17.90	21.20	30.00		1.60		Pass
VHT20	MCS0	2	157	5785	18.52	18.11	21.33	30.00		1.60		Pass
VHT20	MCS0	2	165	5825	18.20	17.89	21.06	30.00		1.60		Pass
VHT40	MCS0	2	151	5755	18.51	18.00	21.27	30.00		1.60		Pass
VHT40	MCS0	2	159	5795	18.61	18.07	21.36	30.00		1.60		Pass
VHT80	MCS0	2	155	5775	16.64	16.53	19.60	30.00		1.60		Pass

TEST RESULTS DATA

Power Spectral Density

FCC U-NII-3														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
11a	6M	2	149	5745	0.02	0.02	5.41	4.28	8.42	30.00		3.24		Pass
11a	6M	2	157	5785	0.02	0.02	5.45	4.16	8.46	30.00		3.24		Pass
11a	6M	2	165	5825	0.02	0.02	5.29	4.11	8.30	30.00		3.24		Pass
HT20	MCS0	2	149	5745	0.02	0.02	5.05	4.02	8.06	30.00		3.24		Pass
HT20	MCS0	2	157	5785	0.02	0.02	4.98	3.67	7.99	30.00		3.24		Pass
HT20	MCS0	2	165	5825	0.02	0.02	5.03	3.95	8.04	30.00		3.24		Pass
HT40	MCS0	2	151	5755	0.05	0.05	1.97	0.96	4.98	30.00		3.24		Pass
HT40	MCS0	2	159	5795	0.05	0.05	2.01	0.52	5.02	30.00		3.24		Pass
VHT80	MCS0	2	155	5775	0.09	0.09	-3.07	-3.72	-0.06	30.00		3.24		Pass

TEST RESULTS DATA

6dB and 26dB EBW and 99% OBW

U-NII-3													
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min Limit (MHz)	Pass /Fail
						Ant4	Ant3	Ant4	Ant3	Ant4	Ant3		
HE20	MCS0	2	149	5745	Full	30.88	29.17	52.55	51.05	18.09	18.57	0.5	Pass
HE20	MCS0	2	157	5785	Full	29.31	29.41	47.15	49.62	18.53	18.73	0.5	Pass
HE20	MCS0	2	165	5825	Full	29.20	28.71	49.14	49.86	18.60	18.28	0.5	Pass
HE40	MCS0	2	151	5755	Full	59.12	55.14	101.38	90.13	37.17	37.18	0.5	Pass
HE40	MCS0	2	159	5795	Full	57.57	56.18	98.18	95.25	37.64	36.71	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.83	78.11	145.47	142.46	76.19	75.17	0.5	Pass

TEST RESULTS DATA

Average Power Table

FCC U-NII-3													
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass /Fail
						Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	149	5745	Full	18.92	18.42	21.69	30.00		1.60		Pass
HE20	MCS0	2	149	5745	26RU/0	10.22	9.33	12.81	30.00		1.60		Pass
HE20	MCS0	2	149	5745	52RU/37	13.28	13.30	16.30	30.00		1.60		Pass
HE20	MCS0	2	149	5745	106RU/53	15.87	16.01	18.95	30.00		1.60		Pass
HE20	MCS0	2	157	5785	Full	18.75	18.22	21.50	30.00		1.60		Pass
HE20	MCS0	2	157	5785	26RU/4	10.11	9.46	12.81	30.00		1.60		Pass
HE20	MCS0	2	157	5785	52RU/38	11.85	10.83	14.38	30.00		1.60		Pass
HE20	MCS0	2	157	5785	106RU/53	15.81	16.09	18.96	30.00		1.60		Pass
HE20	MCS0	2	165	5825	Full	18.82	18.39	21.62	30.00		1.60		Pass
HE20	MCS0	2	165	5825	26RU/8	9.79	9.47	12.64	30.00		1.60		Pass
HE20	MCS0	2	165	5825	52RU/40	11.63	10.96	14.32	30.00		1.60		Pass
HE20	MCS0	2	165	5825	106RU/54	15.50	16.08	18.81	30.00		1.60		Pass
HE40	MCS0	2	151	5755	Full	18.79	18.35	21.59	30.00		1.60		Pass
HE40	MCS0	2	159	5795	Full	18.85	18.23	21.56	30.00		1.60		Pass
HE80	MCS0	2	155	5775	Full	16.68	16.62	19.66	30.00		1.60		Pass

TEST RESULTS DATA

Power Spectral Density

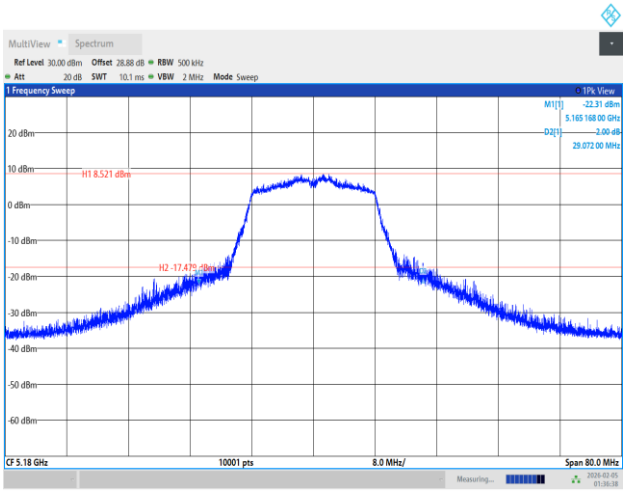
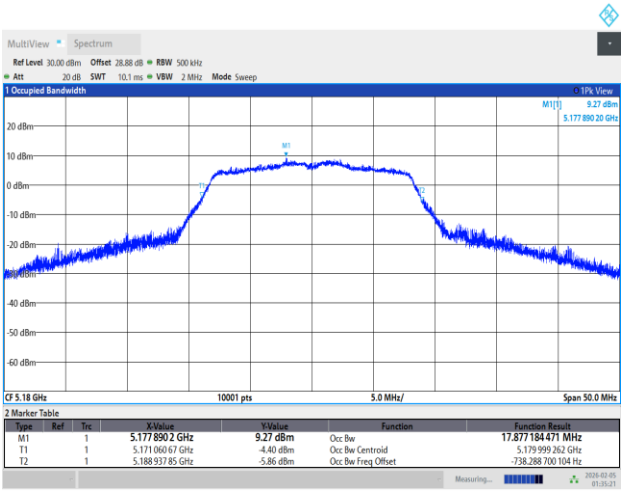
FCC U-NII-3																
Mod.	Data Rate	NTX	CH.	Freq (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant4	Ant3	Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	149	5745	Full	0.03	0.03	4.94	3.89	7.95	30.00		3.24		Pass
HE20	MCS0	2	149	5745	26RU/0	0.09	0.09	4.66	3.42	7.67	30.00		3.24		Pass
HE20	MCS0	2	149	5745	52RU/37	0.09	0.09	4.05	3.83	7.06	30.00		3.24		Pass
HE20	MCS0	2	149	5745	106RU/53	0.10	0.10	4.13	3.90	7.14	30.00		3.24		Pass
HE20	MCS0	2	157	5785	Full	0.03	0.03	4.59	3.45	7.60	30.00		3.24		Pass
HE20	MCS0	2	157	5785	26RU/4	0.09	0.09	4.35	3.19	7.36	30.00		3.24		Pass
HE20	MCS0	2	157	5785	52RU/38	0.09	0.09	3.30	1.63	6.31	30.00		3.24		Pass
HE20	MCS0	2	157	5785	106RU/53	0.10	0.10	3.92	3.46	6.93	30.00		3.24		Pass
HE20	MCS0	2	165	5825	Full	0.03	0.03	4.68	3.51	7.69	30.00		3.24		Pass
HE20	MCS0	2	165	5825	26RU/8	0.09	0.09	4.48	3.49	7.49	30.00		3.24		Pass
HE20	MCS0	2	165	5825	52RU/40	0.09	0.09	3.18	2.06	6.19	30.00		3.24		Pass
HE20	MCS0	2	165	5825	106RU/54	0.10	0.10	3.65	3.37	6.66	30.00		3.24		Pass
HE40	MCS0	2	151	5755	Full	0.06	0.06	1.92	0.77	4.93	30.00		3.24		Pass
HE40	MCS0	2	159	5795	Full	0.06	0.06	1.79	0.43	4.80	30.00		3.24		Pass
HE80	MCS0	2	155	5775	Full	0.12	0.12	-3.18	-3.89	-0.17	30.00		3.24		Pass

<For Band 1-3>

Test Result of 26dB & 99% Occupied Bandwidth

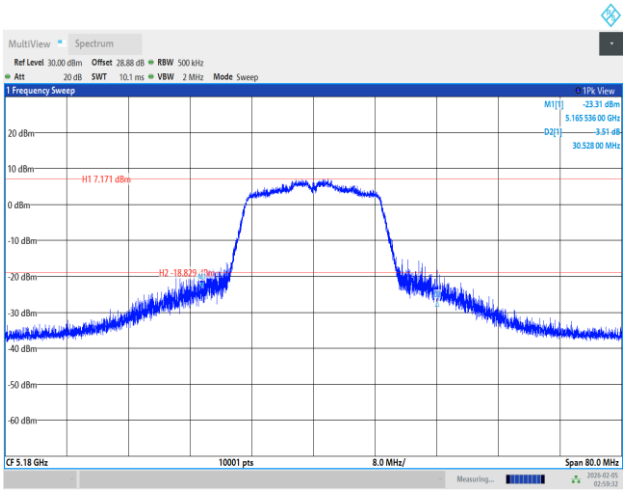
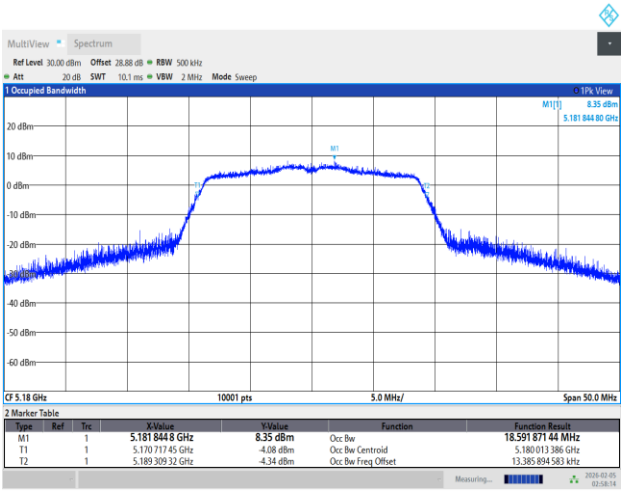
MIMO <Ant. 4+3>

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

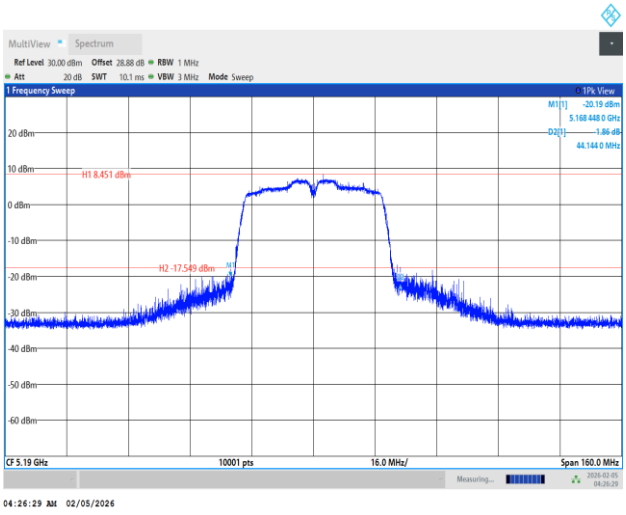
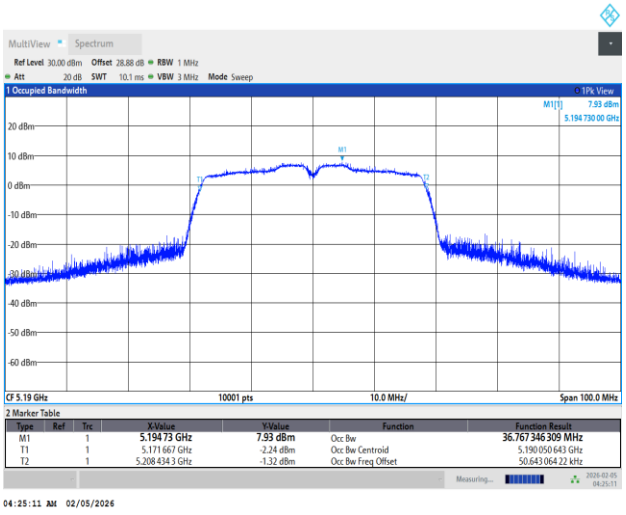
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT20>

26dB Bandwidth	99% Occupied Bandwidth
	

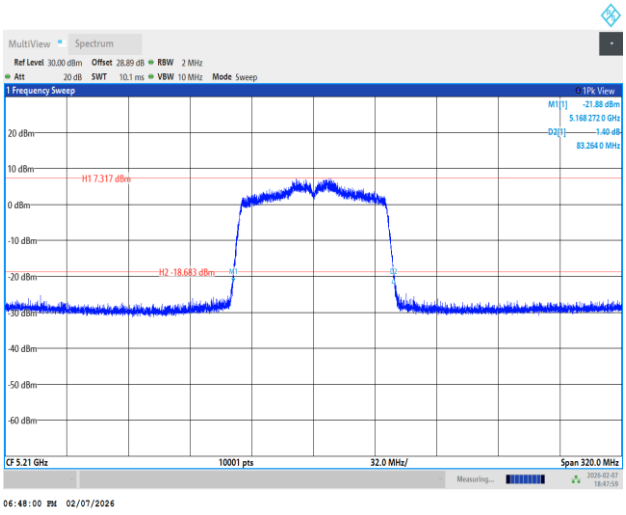
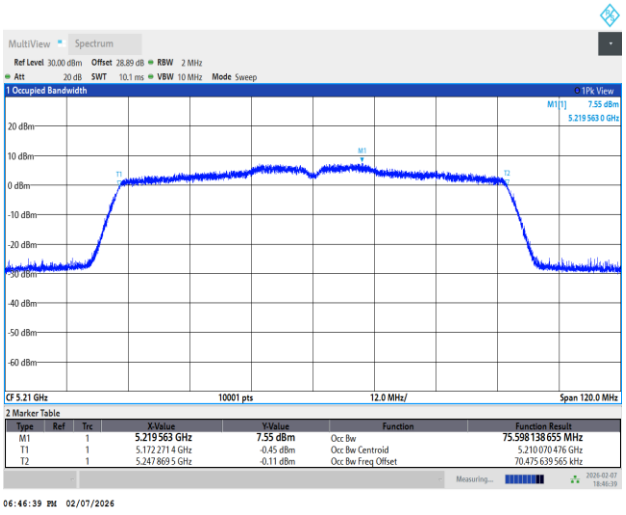
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT40>

26dB Bandwidth	99% Occupied Bandwidth
	

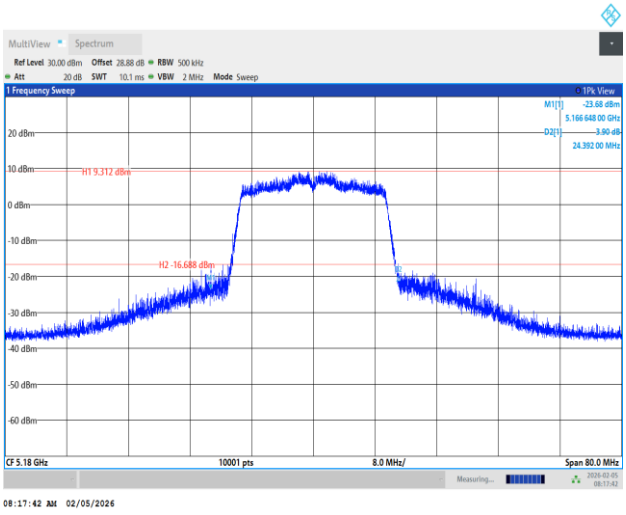
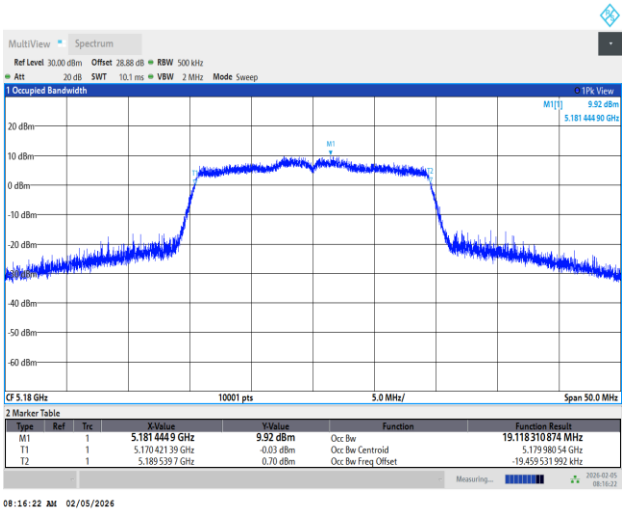
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT80>

26dB Bandwidth	99% Occupied Bandwidth
	

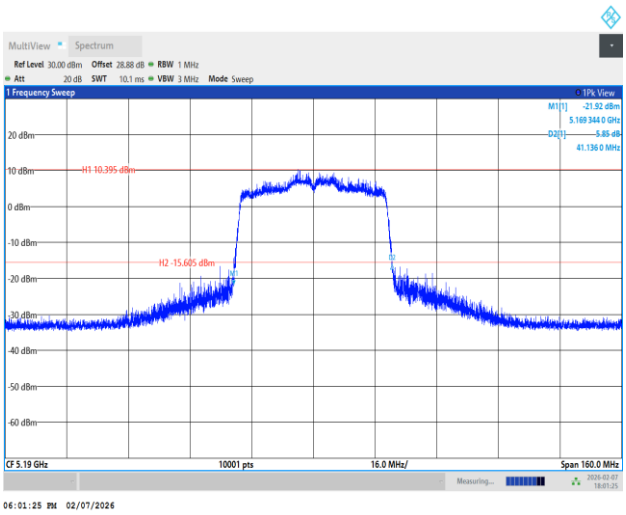
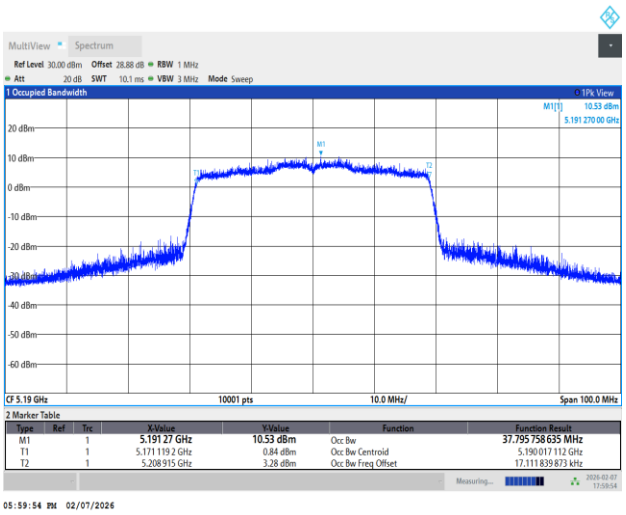
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

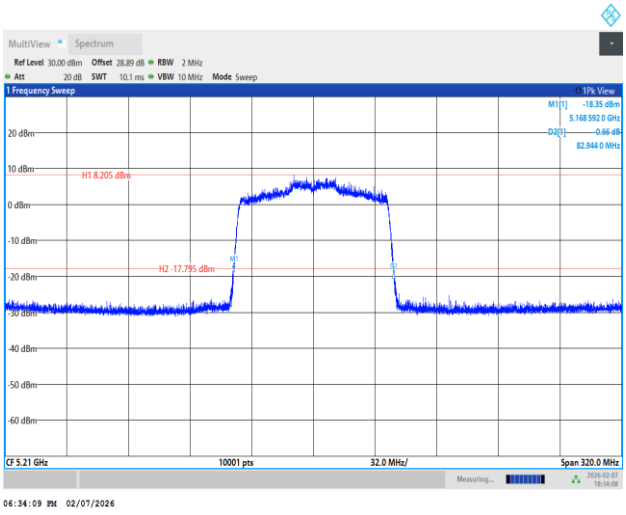
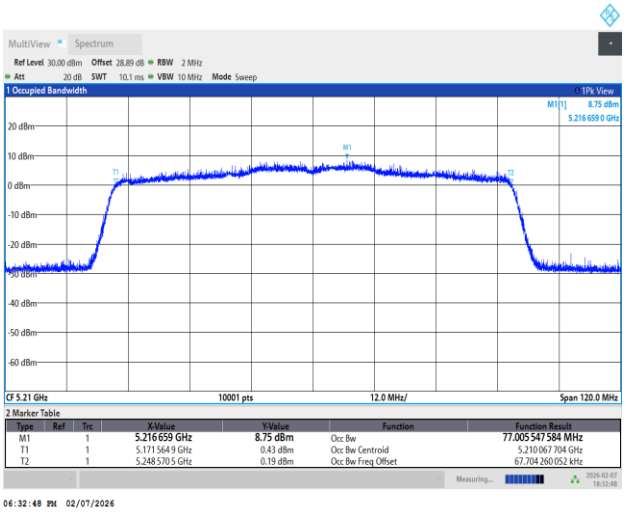
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

26dB Bandwidth	99% Occupied Bandwidth
	

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

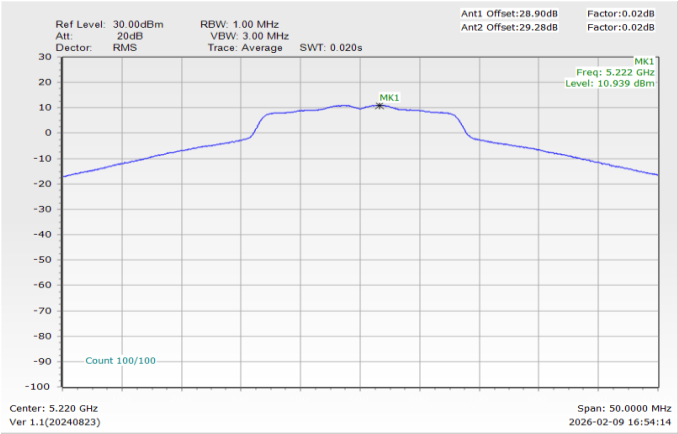
<802.11ax HE80>

26dB Bandwidth	99% Occupied Bandwidth
	

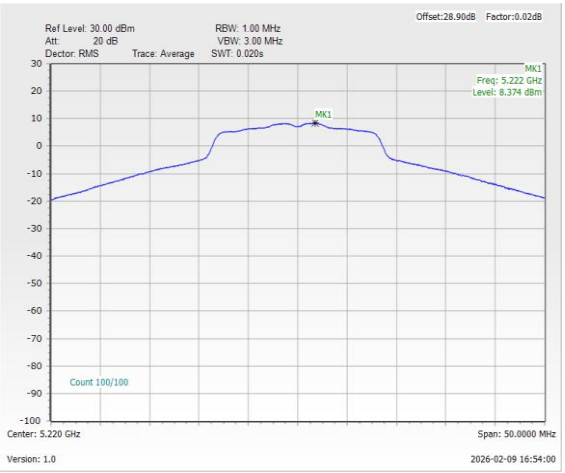
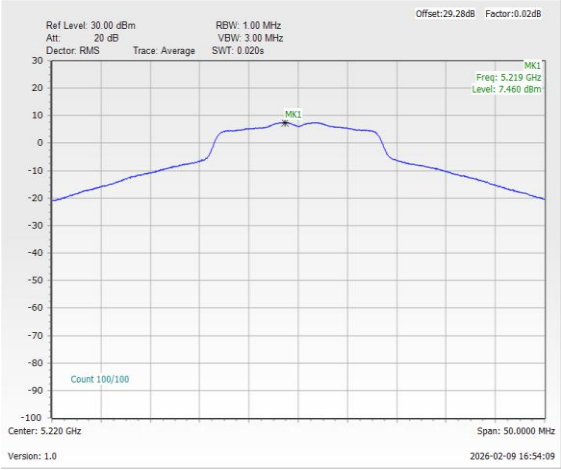
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Test Result of Power Spectral Density

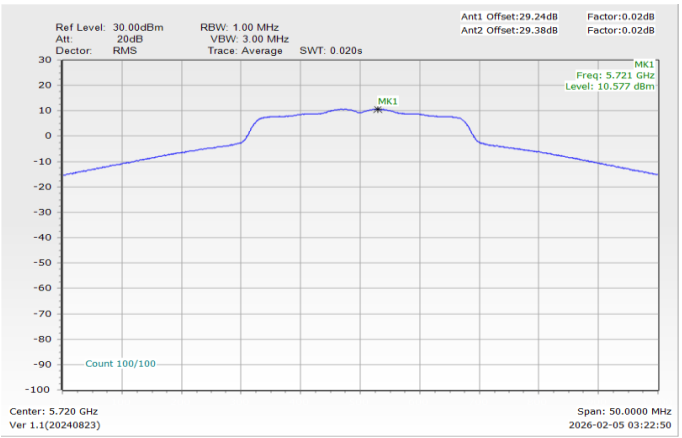
<802.11a>

Maximum Power Density Plot (dBm/MHz)


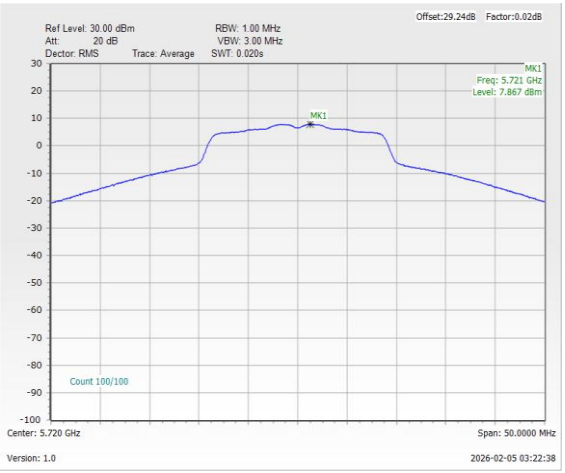
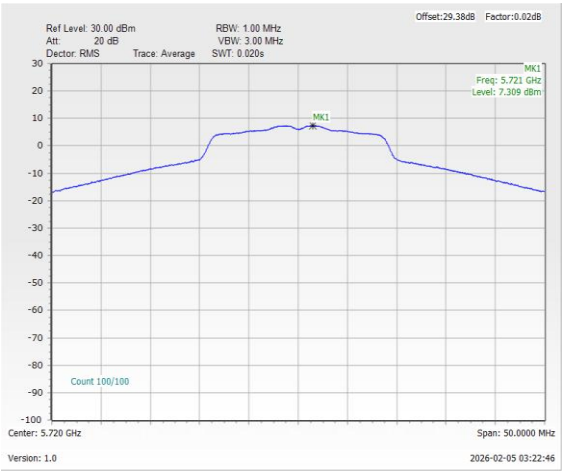
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 4)	Maximum Power Density Plot Trace 2 (Ant 3)
	

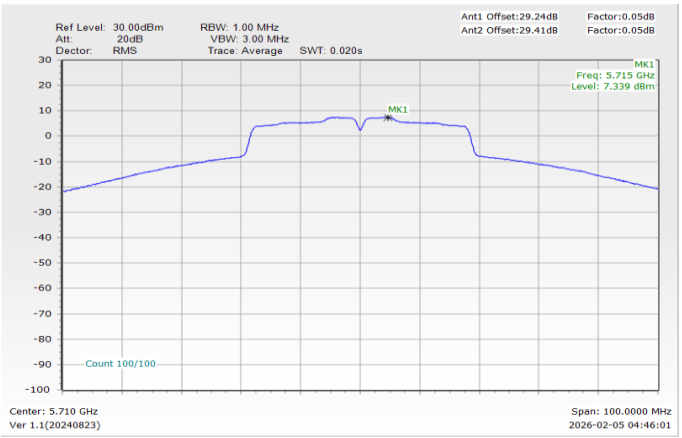
<802.11n HT20>

Maximum Power Density Plot (dBm/MHz)


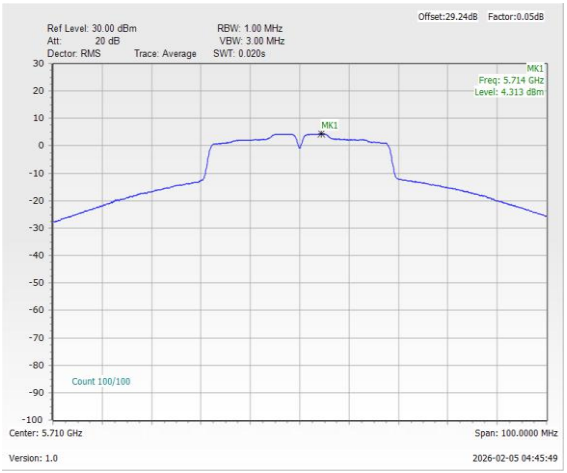
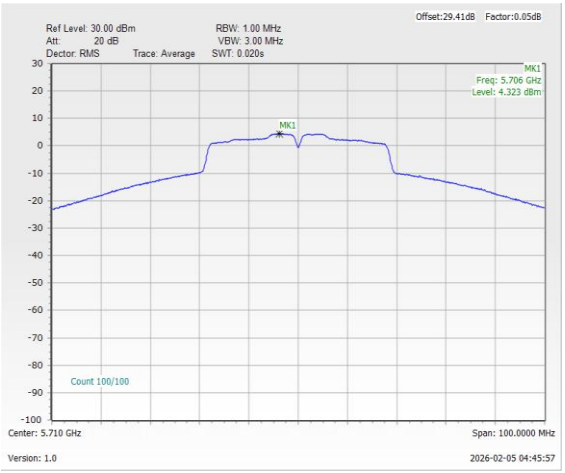
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 4)	Maximum Power Density Plot Trace 2 (Ant 3)
	

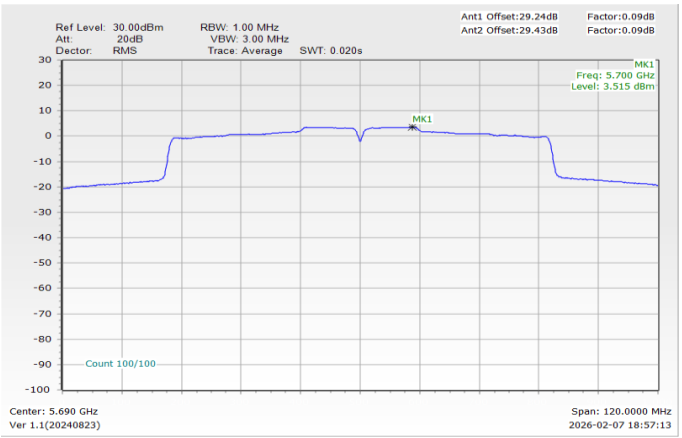
<802.11n HT40>

Maximum Power Density Plot (dBm/MHz)


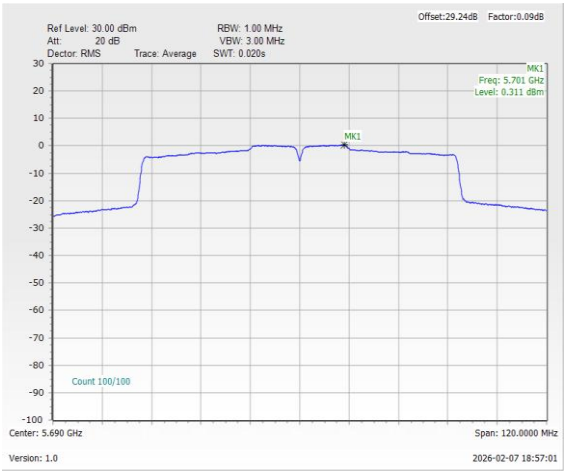
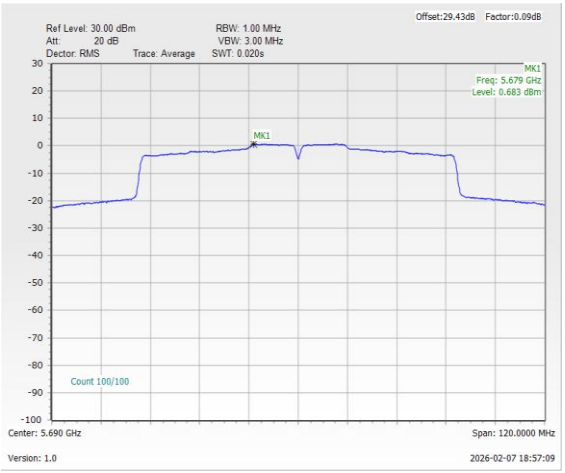
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 4)	Maximum Power Density Plot Trace 2 (Ant 3)
	

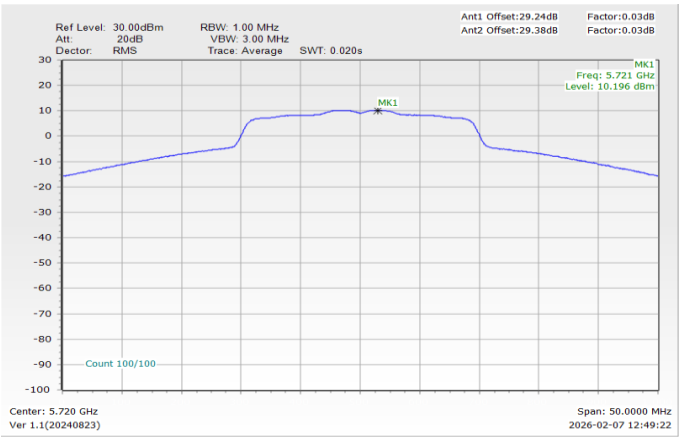
<802.11ac VHT80>

Maximum Power Density Plot (dBm/MHz)


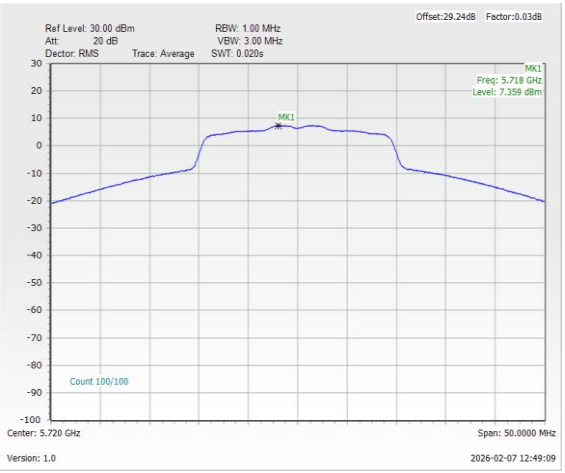
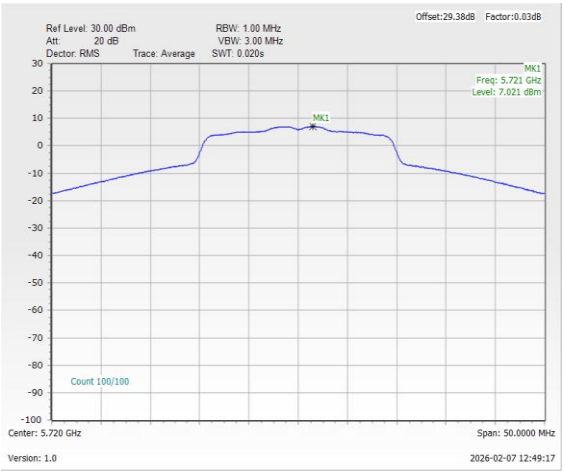
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 4)	Maximum Power Density Plot Trace 2 (Ant 3)
	

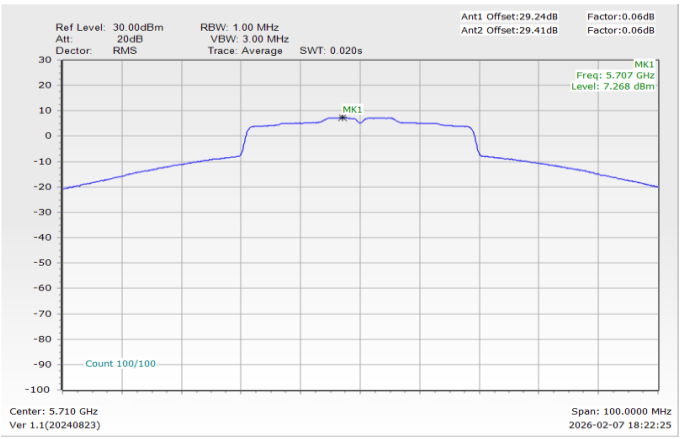
<802.11ax HE20>

Maximum Power Density Plot (dBm/MHz)


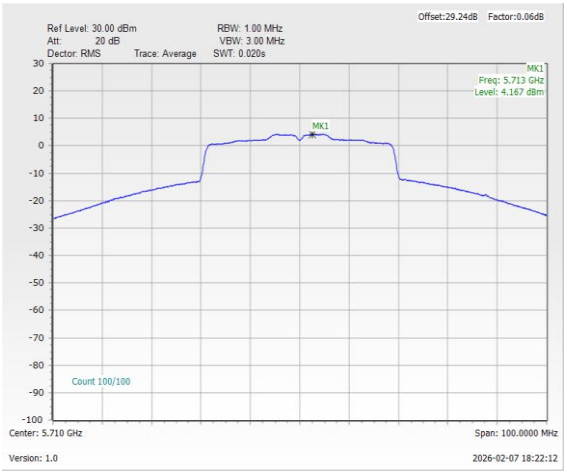
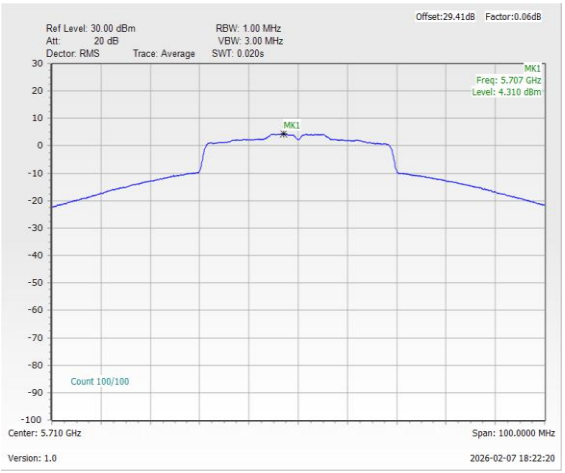
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 4)	Maximum Power Density Plot Trace 2 (Ant 3)
	

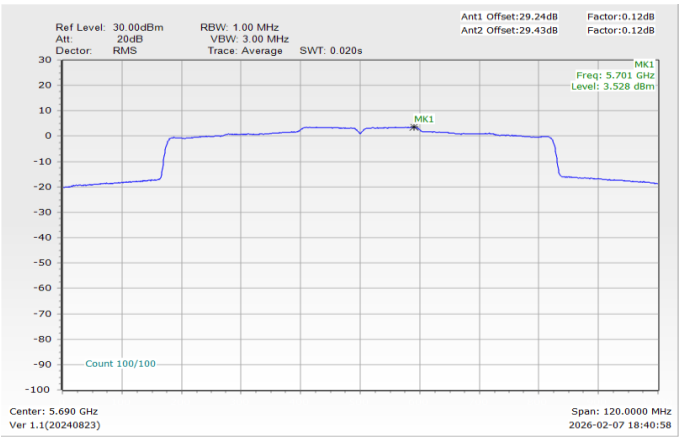
<802.11ax HE40>

Maximum Power Density Plot (dBm/MHz)


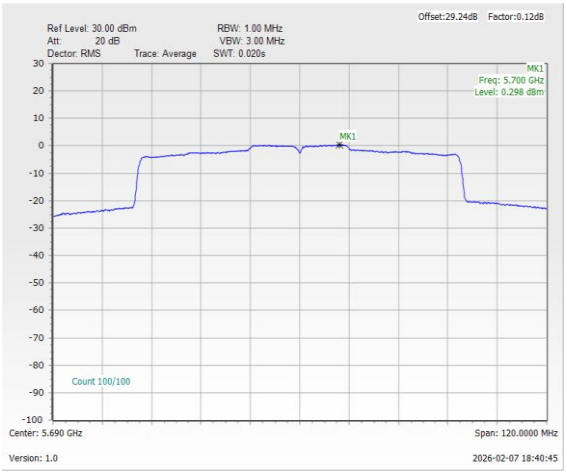
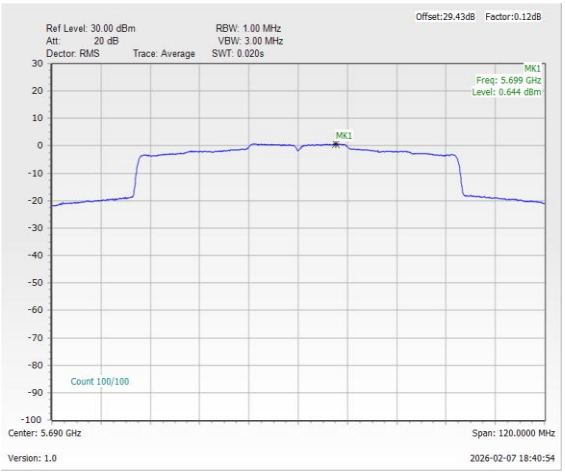
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 4)	Maximum Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE80>

Maximum Power Density Plot (dBm/MHz)


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

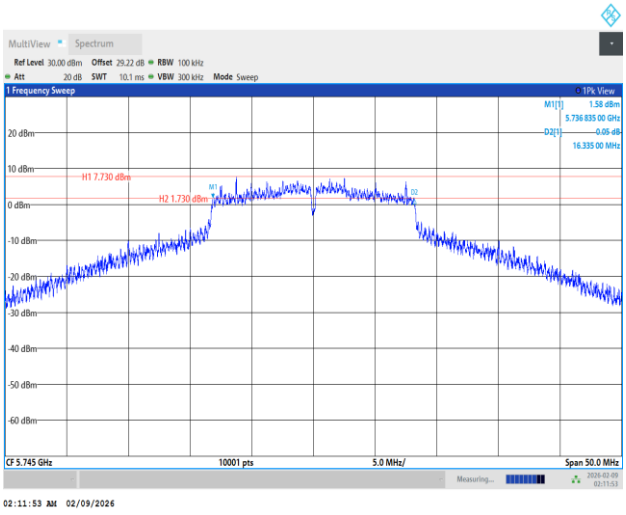
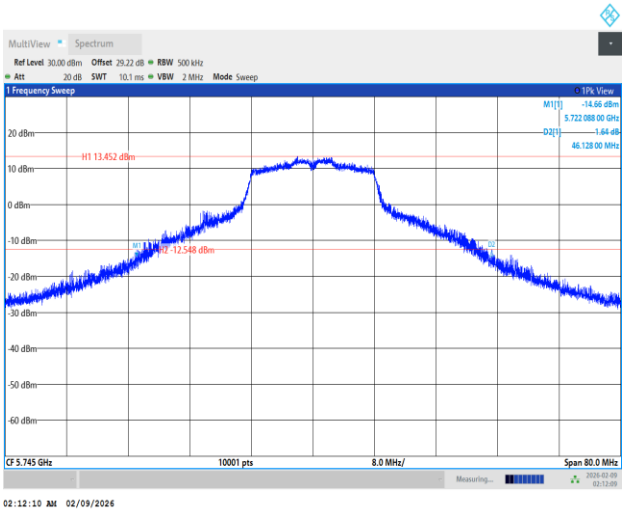
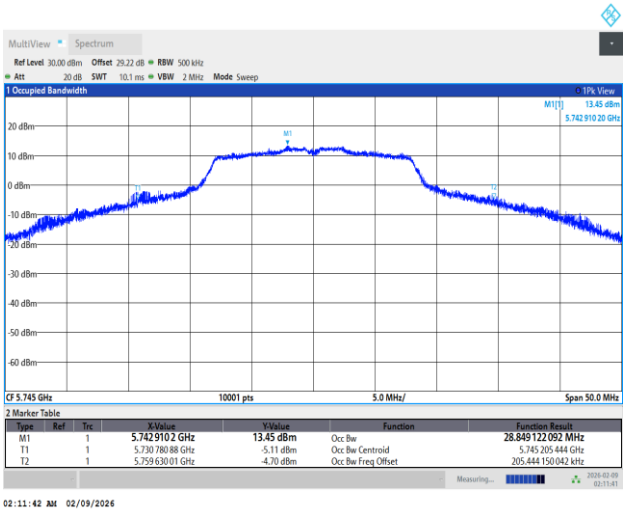
Maximum Power Density Plot Trace 1 (Ant 4)	Maximum Power Density Plot Trace 2 (Ant 3)
	

<For Band 4>

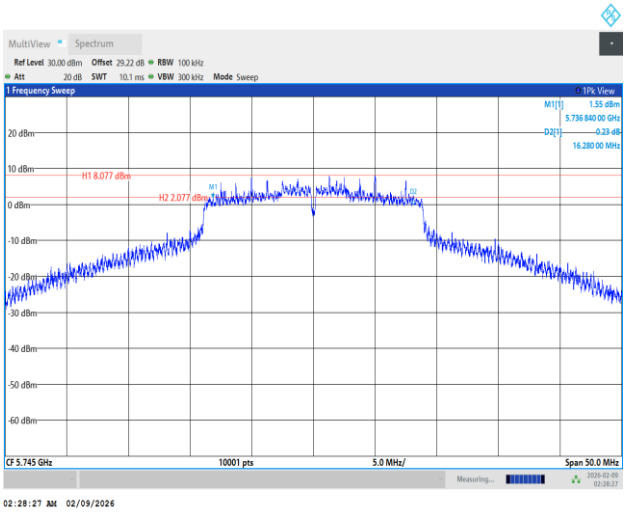
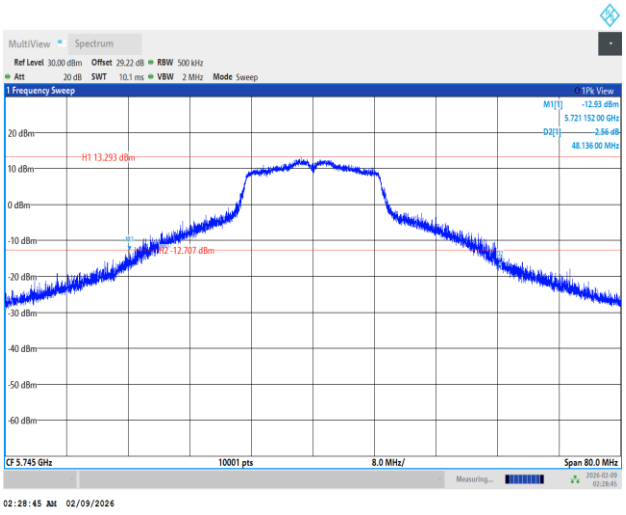
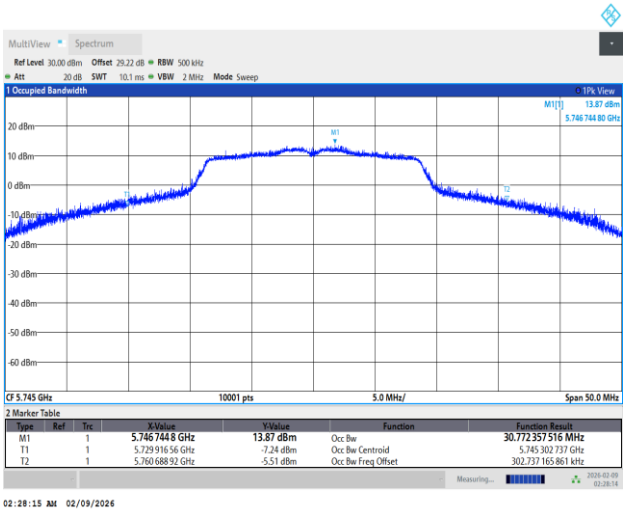
Test Result of 6dB and 26dB and 99% Occupied Bandwidth

MIMO <Ant. 4+3>

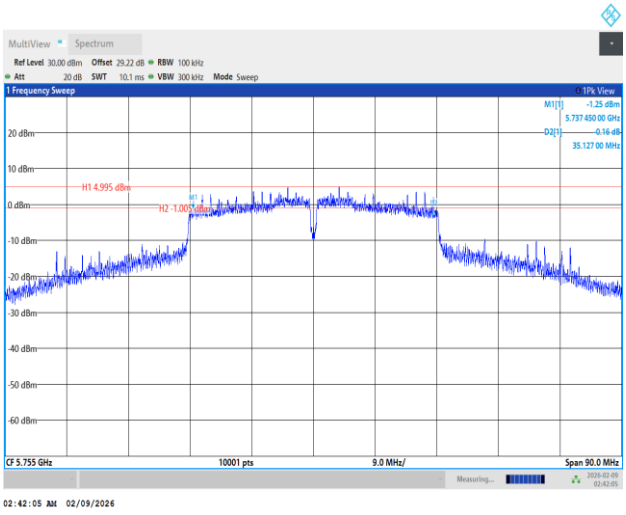
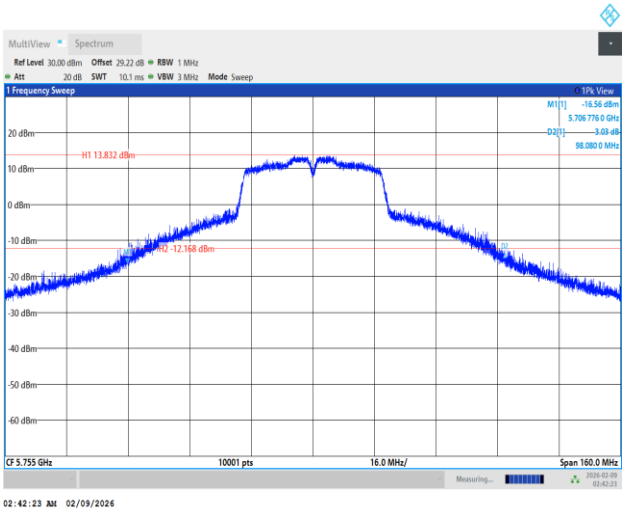
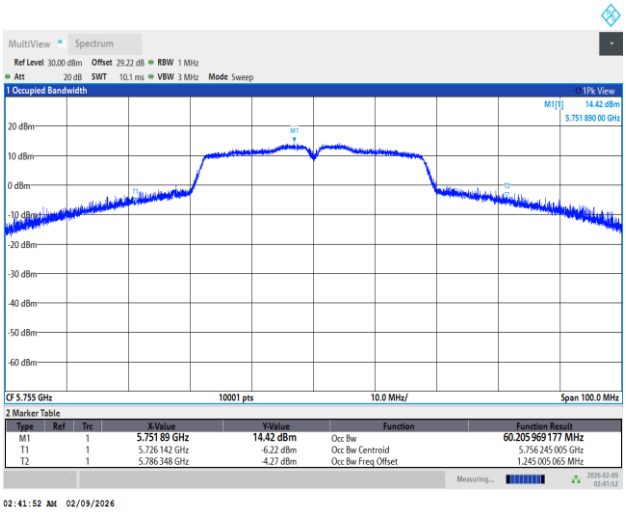
<802.11a>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

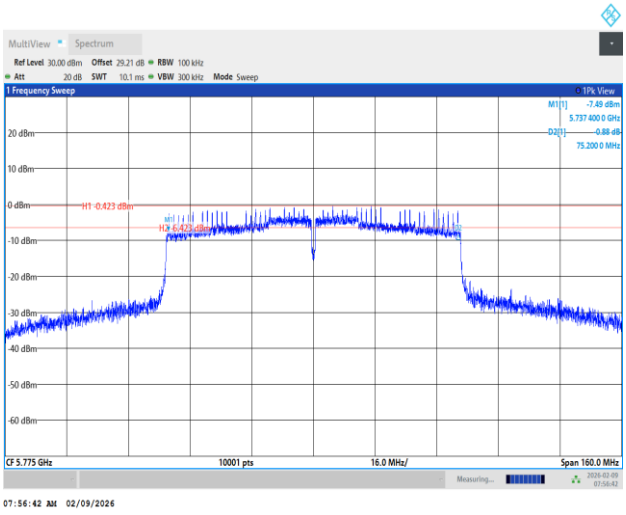
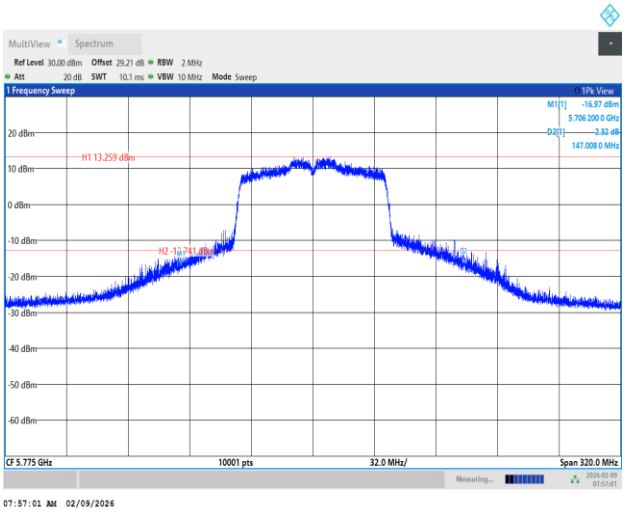
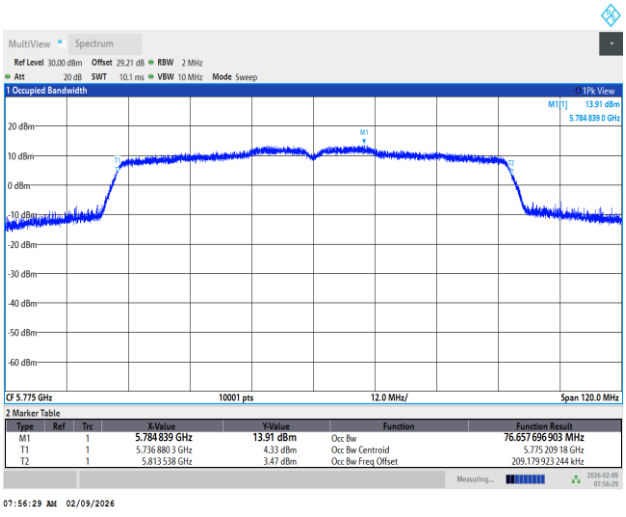
<802.11n HT20>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

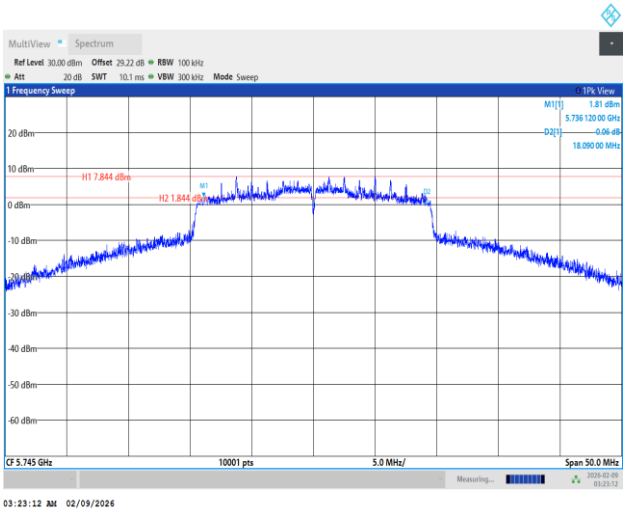
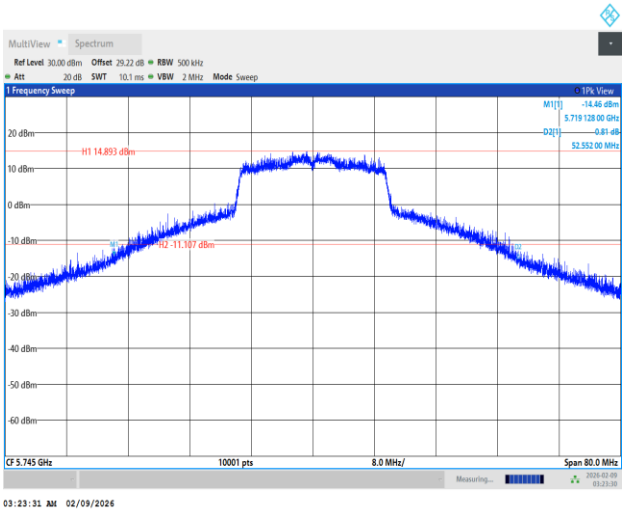
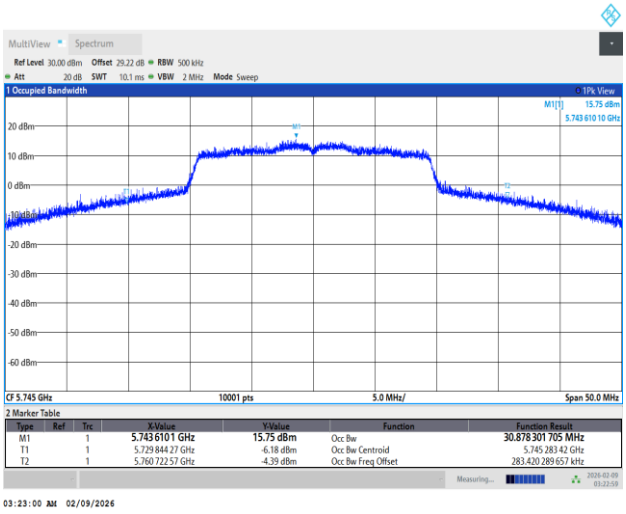
<802.11n HT40>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

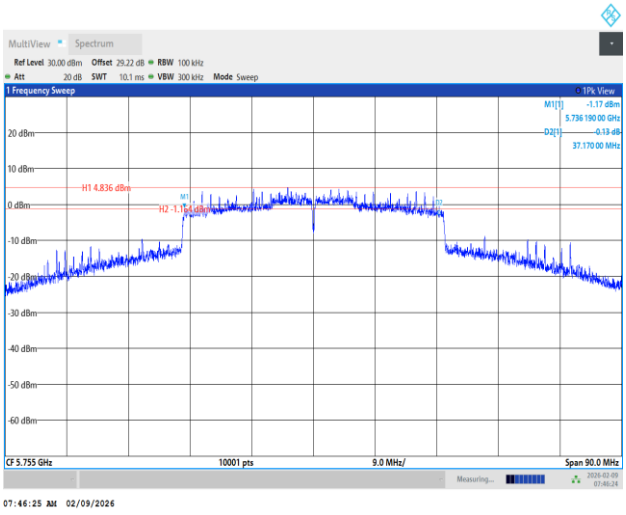
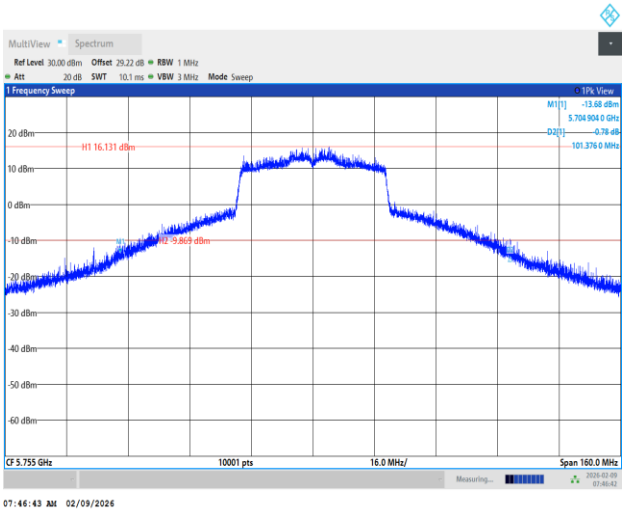
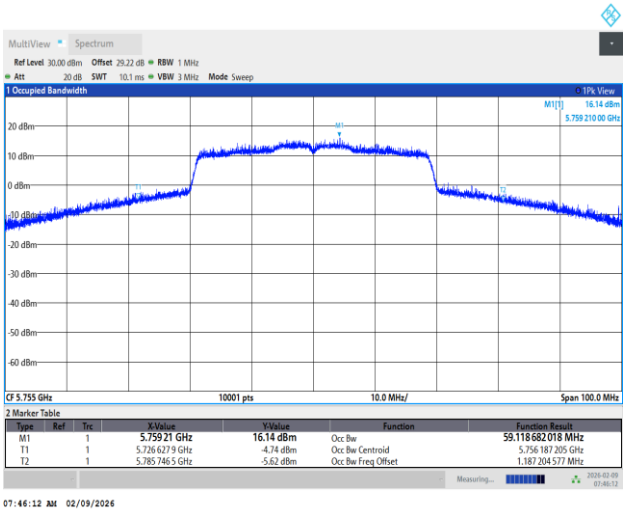
<802.11ac VHT80>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

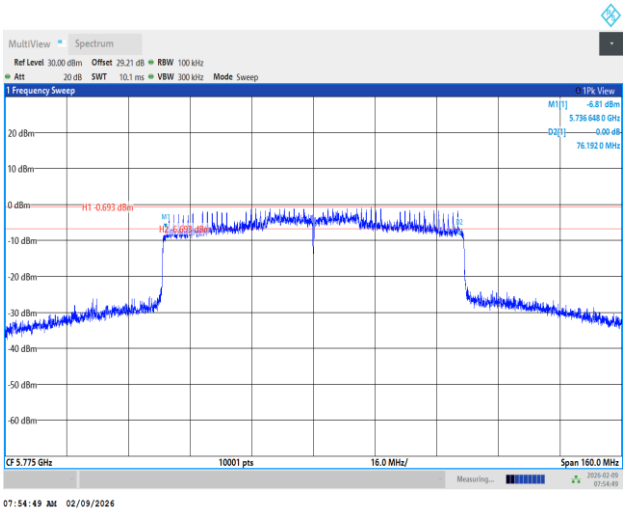
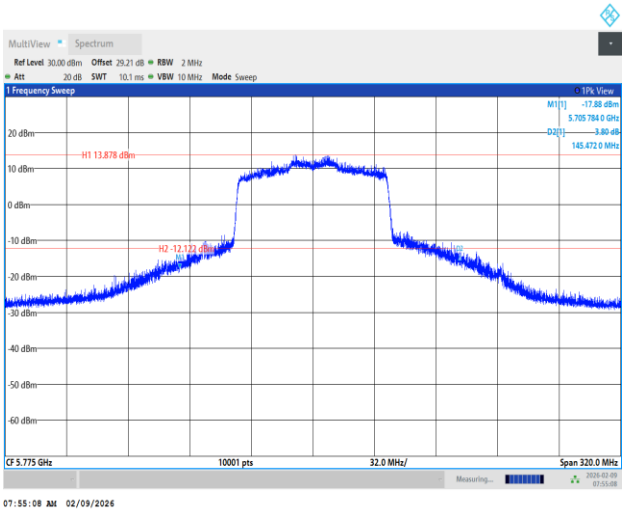
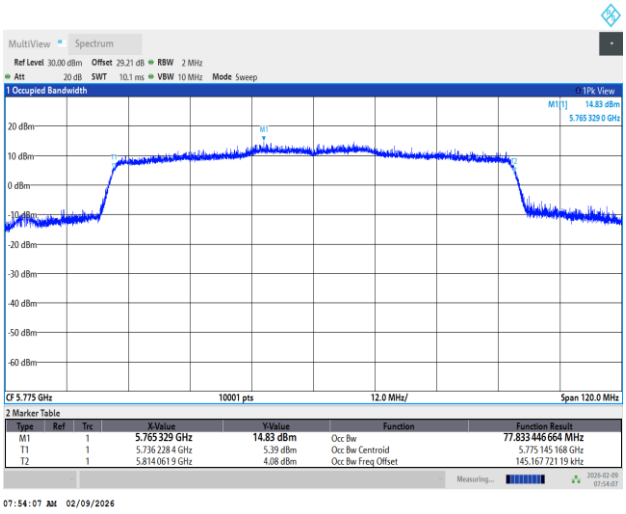
<802.11ax HE20>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

<802.11ax HE40>

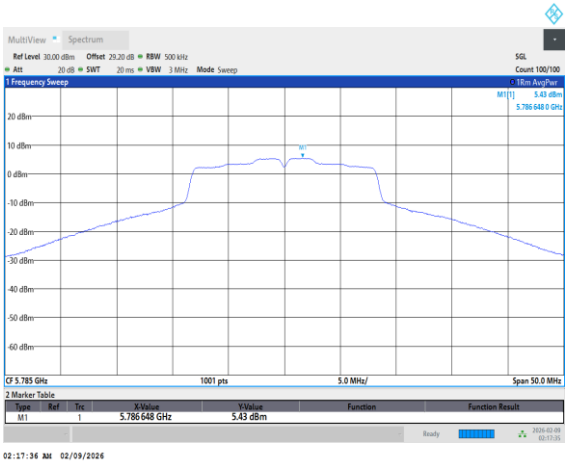
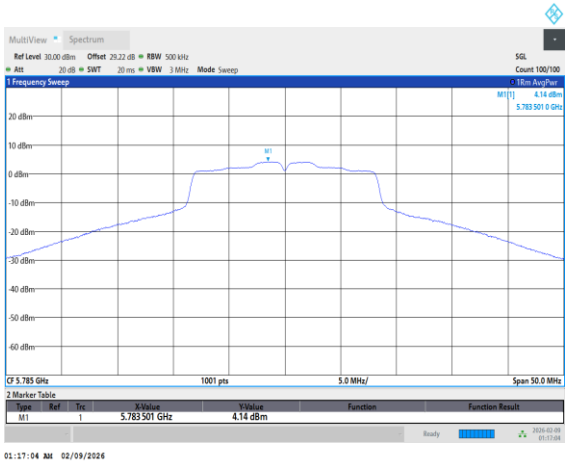
6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

<802.11ax HE80>

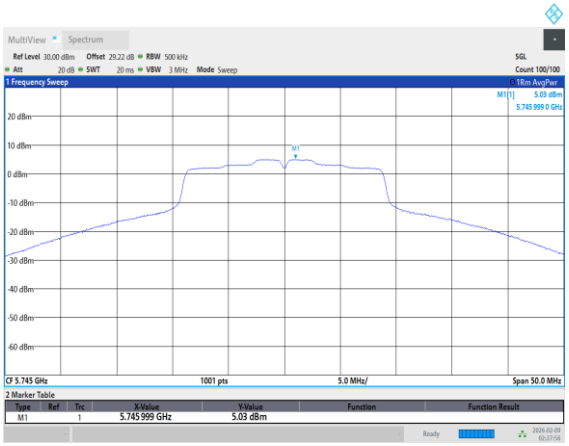
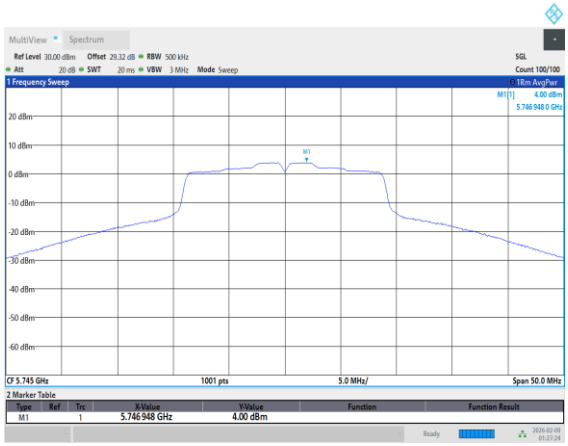
6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

Test Result of Power Spectral Density

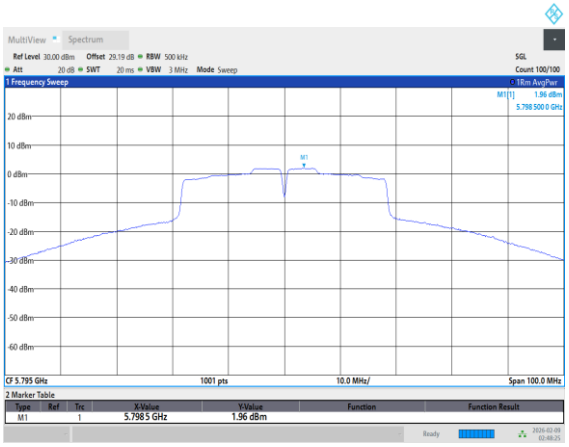
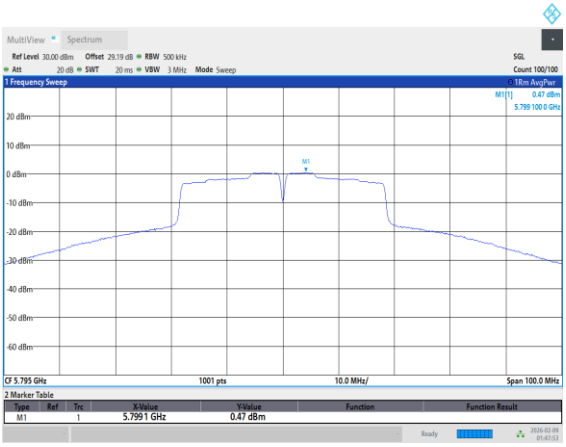
<802.11a>

Maximum Power Density Plot (dBm/500kHz)	
Ant. 4	**Ant. 3**
	

<802.11n HT20>

Maximum Power Density Plot (dBm/500kHz)	
Ant. 4	**Ant. 3**
	

<802.11n HT40>

Maximum Power Density Plot (dBm/500kHz)	
Ant. 4	Ant. 3
	

<802.11ac VHT80>

Maximum Power Density Plot (dBm/500kHz)	
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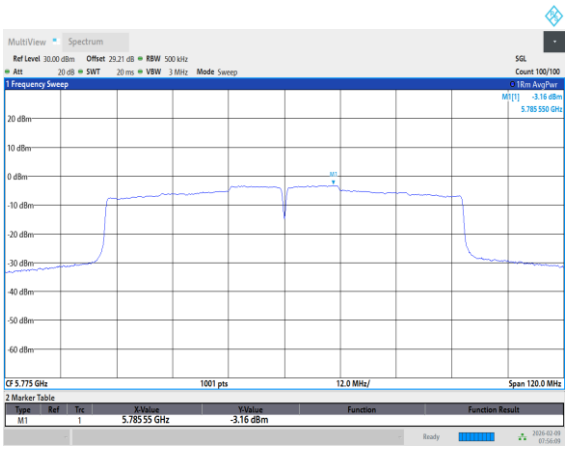	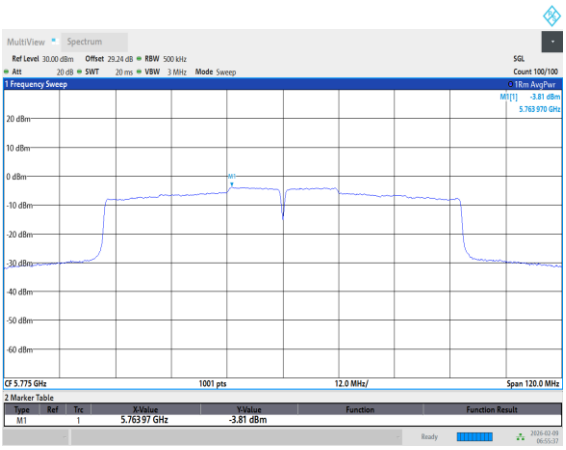

<802.11ax HE20>

Maximum Power Density Plot (dBm/500kHz)	
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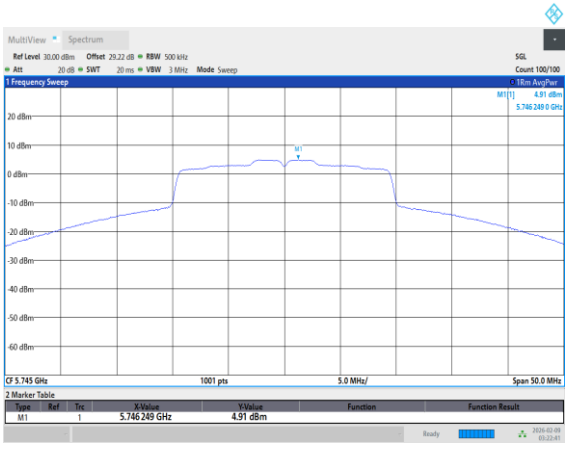
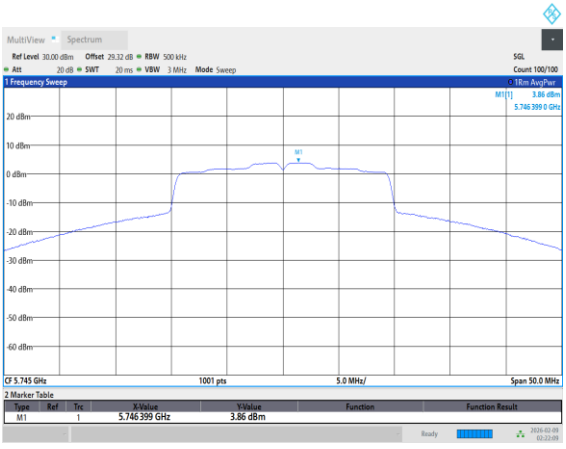
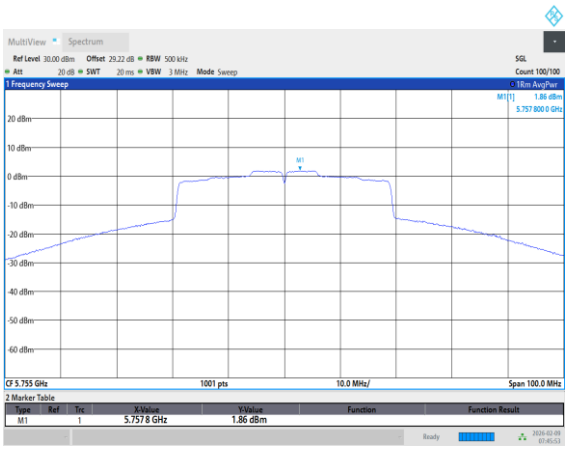
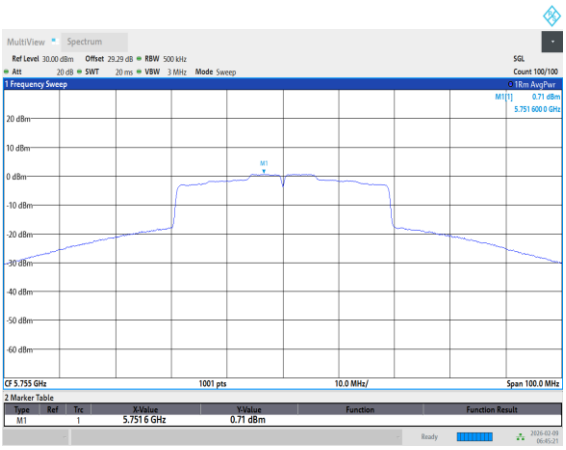
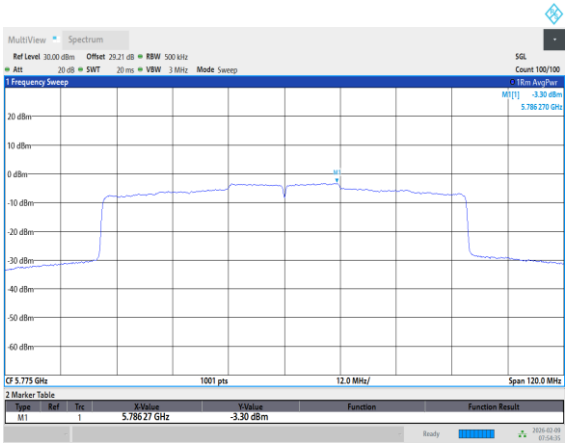
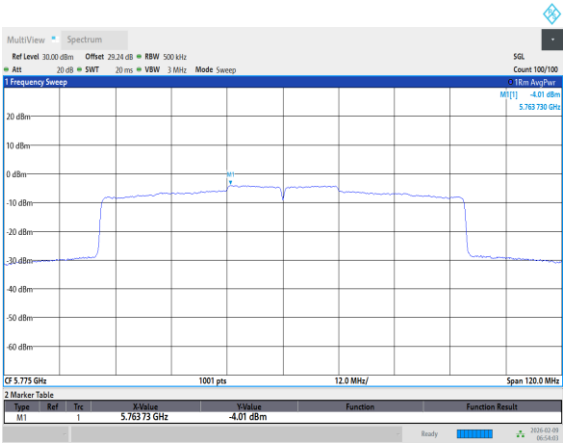
	

<802.11ax HE40>

Maximum Power Density Plot (dBm/500kHz)	
Ant. 4	Ant. 3
	

<802.11ax HE80>

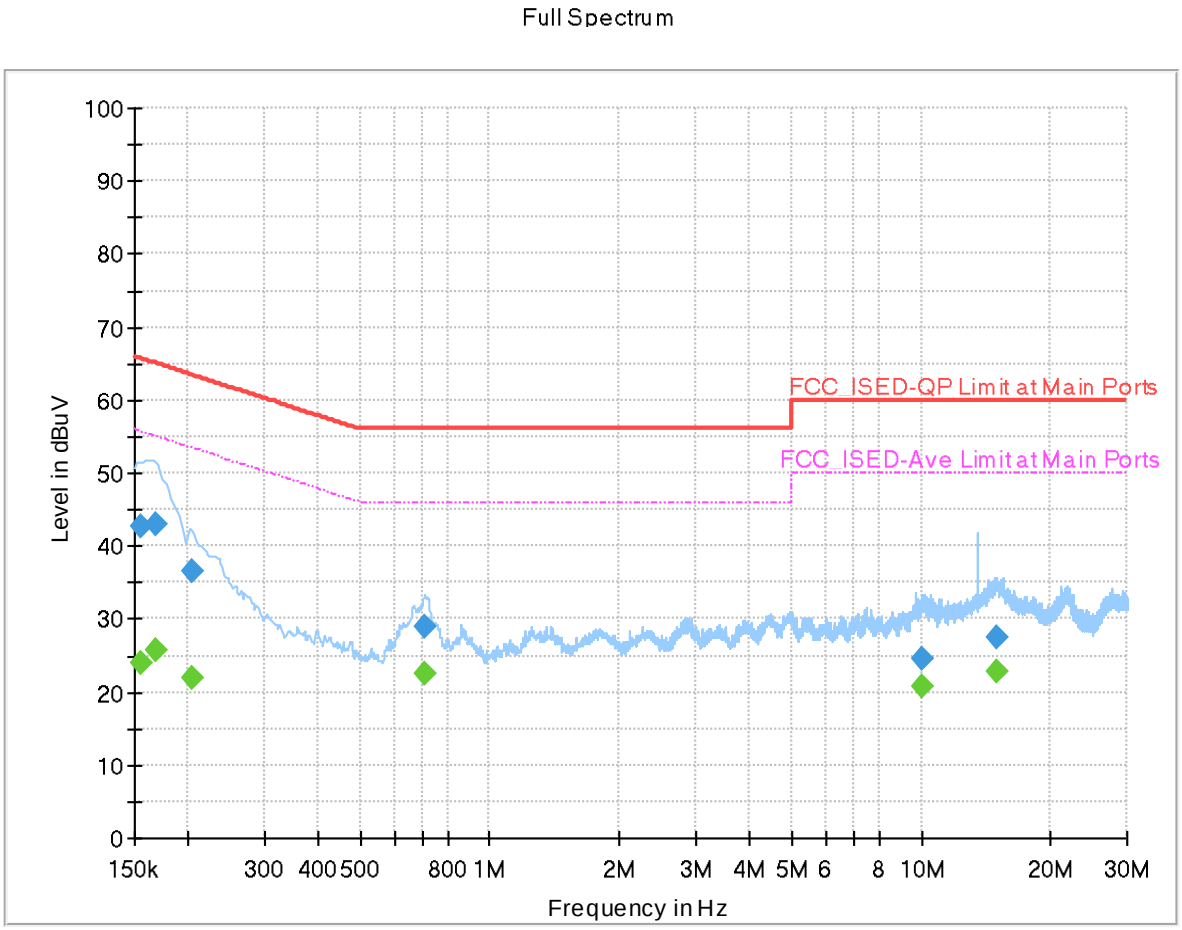
Maximum Power Density Plot (dBm/500kHz)	
Ant. 4	**Ant. 3**
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Brian Chen	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

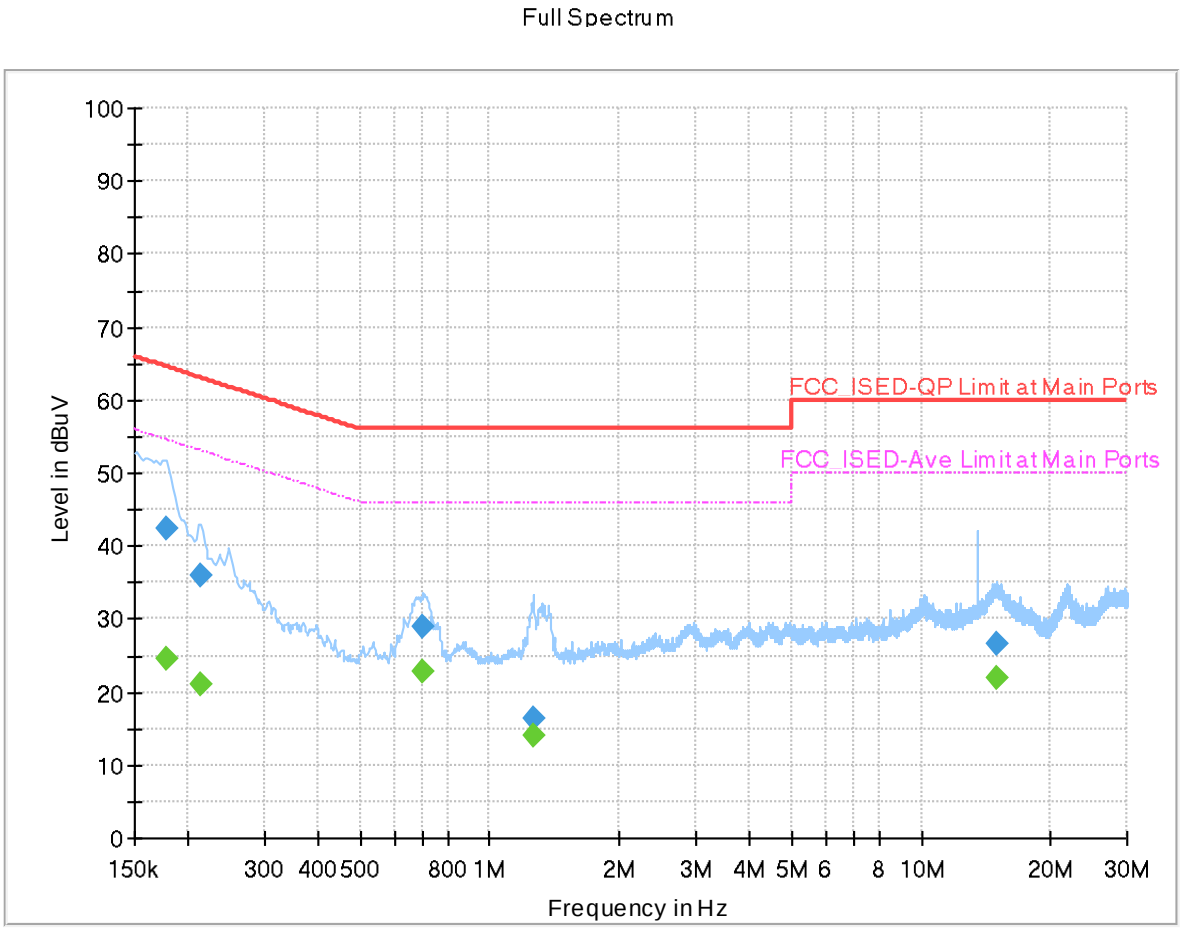


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	24.09	55.75	31.66	L1	ON	20.1
0.154500	42.81	---	65.75	22.94	L1	ON	20.1
0.168000	---	25.77	55.06	29.29	L1	ON	20.1
0.168000	43.04	---	65.06	22.02	L1	ON	20.1
0.204000	---	21.80	53.45	31.65	L1	ON	20.1
0.204000	36.43	---	63.45	27.02	L1	ON	20.1
0.708000	---	22.64	46.00	23.36	L1	ON	20.0
0.708000	28.85	---	56.00	27.15	L1	ON	20.0
10.041000	---	20.65	50.00	29.35	L1	ON	20.4
10.041000	24.49	---	60.00	35.51	L1	ON	20.4
14.975250	---	22.86	50.00	27.14	L1	ON	20.6
14.975250	27.47	---	60.00	32.53	L1	ON	20.6

EUT Information

Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	24.70	54.63	29.93	N	ON	20.1
0.177000	42.28	---	64.63	22.35	N	ON	20.1
0.213000	---	21.10	53.09	31.99	N	ON	20.1
0.213000	35.90	---	63.09	27.19	N	ON	20.1
0.701250	---	22.75	46.00	23.25	N	ON	20.0
0.701250	28.81	---	56.00	27.19	N	ON	20.0
1.259250	---	13.95	46.00	32.05	N	ON	20.0
1.259250	16.41	---	56.00	39.59	N	ON	20.0
14.966250	---	21.89	50.00	28.11	N	ON	20.7
14.966250	26.71	---	60.00	33.29	N	ON	20.7

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jerry Lan、Gary Guo、Steven Wu	**Temperature :**	22.8~25.2°C
		Relative Humidity :	48.2~54.3%

Note symbol

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

<For Band 1-3>

C1.1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	4+3	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	4+3	802.11a	40	5200	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	4+3	802.11a	44	5220	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	4+3	802.11a	48	5240	6Mbps	-	-
Mode 5	U-NII-1	5.15-5.25	4+3	802.11n HT20	36	5180	MCS0	-	-
Mode 6	U-NII-1	5.15-5.25	4+3	802.11n HT20	40	5200	MCS0	-	-
Mode 7	U-NII-1	5.15-5.25	4+3	802.11n HT20	44	5220	MCS0	-	-
Mode 8	U-NII-1	5.15-5.25	4+3	802.11n HT20	48	5240	MCS0	-	-
Mode 9	U-NII-1	5.15-5.25	4+3	802.11n HT40	38	5190	MCS0	-	-
Mode 10	U-NII-1	5.15-5.25	4+3	802.11n HT40	46	5230	MCS0	-	-
Mode 11	U-NII-1	5.15-5.25	4+3	802.11ac VHT80	42	5210	MCS0	-	-

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	U-NII-1	5.15-5.25	4+3	802.11ax HE20	36	5180	MCS0	Full RU	-
Mode 13	U-NII-1	5.15-5.25	4+3	802.11ax HE20	36	5180	MCS0	26/0 RU	-
Mode 14	U-NII-1	5.15-5.25	4+3	802.11ax HE20	36	5180	MCS0	52/37 RU	-
Mode 15	U-NII-1	5.15-5.25	4+3	802.11ax HE20	36	5180	MCS0	106/53 RU	-
Mode 16	U-NII-1	5.15-5.25	4+3	802.11ax HE20	40	5200	MCS0	Full RU	-
Mode 17	U-NII-1	5.15-5.25	4+3	802.11ax HE20	44	5220	MCS0	Full RU	-
Mode 18	U-NII-1	5.15-5.25	4+3	802.11ax HE20	48	5240	MCS0	Full RU	-
Mode 19	U-NII-1	5.15-5.25	4+3	802.11ax HE40	38	5190	MCS0	Full RU	-
Mode 20	U-NII-1	5.15-5.25	4+3	802.11ax HE40	46	5230	MCS0	Full RU	-
Mode 21	U-NII-1	5.15-5.25	4+3	802.11ax HE80	42	5210	MCS0	Full RU	-
Mode 22	U-NII-2A	5.25-5.35	4+3	802.11a	52	5260	6Mbps	-	-

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 23	U-NII-2A	5.25-5.35	4+3	802.11a	56	5280	6Mbps	-	-
Mode 24	U-NII-2A	5.25-5.35	4+3	802.11a	60	5300	6Mbps	-	-
Mode 25	U-NII-2A	5.25-5.35	4+3	802.11a	64	5320	6Mbps	-	-
Mode 26	U-NII-2A	5.25-5.35	4+3	802.11n HT20	52	5260	MCS0	-	-
Mode 27	U-NII-2A	5.25-5.35	4+3	802.11n HT20	56	5280	MCS0	-	-
Mode 28	U-NII-2A	5.25-5.35	4+3	802.11n HT20	60	5300	MCS0	-	-
Mode 29	U-NII-2A	5.25-5.35	4+3	802.11n HT20	64	5320	MCS0	-	-
Mode 30	U-NII-2A	5.25-5.35	4+3	802.11n HT40	54	5270	MCS0	-	-
Mode 31	U-NII-2A	5.25-5.35	4+3	802.11n HT40	62	5310	MCS0	-	-
Mode 32	U-NII-2A	5.25-5.35	4+3	802.11ac VHT80	58	5290	MCS0	-	-
Mode 33	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	52	5260	MCS0	Full RU	-

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 34	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	56	5280	MCS0	Full RU	-
Mode 35	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	60	5300	MCS0	Full RU	-
Mode 36	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	64	5320	MCS0	Full RU	-
Mode 37	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	64	5320	MCS0	26/8 RU	-
Mode 38	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	64	5320	MCS0	52/40 RU	-
Mode 39	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	64	5320	MCS0	106/54 RU	-
Mode 40	U-NII-2A	5.25-5.35	4+3	802.11ax HE40	54	5270	MCS0	Full RU	-
Mode 41	U-NII-2A	5.25-5.35	4+3	802.11ax HE40	62	5310	MCS0	Full RU	-
Mode 42	U-NII-2A	5.25-5.35	4+3	802.11ax HE80	58	5290	MCS0	Full RU	-
Mode 43	U-NII-2C	5.47-5.725	4+3	802.11a	100	5500	6Mbps	-	-
Mode 44	U-NII-2C	5.47-5.725	4+3	802.11a	116	5580	6Mbps	-	-

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 45	U-NII-2C	5.47-5.725	4+3	802.11a	136	5680	6Mbps	-	-
Mode 46	U-NII-2C	5.47-5.725	4+3	802.11a	140	5700	6Mbps	-	-
Mode 47	U-NII-2C	5.47-5.725	4+3	802.11a	144	5720	6Mbps	-	-
Mode 48	U-NII-2C	5.47-5.725	4+3	802.11n HT20	100	5500	MCS0	-	-
Mode 49	U-NII-2C	5.47-5.725	4+3	802.11n HT20	116	5580	MCS0	-	-
Mode 50	U-NII-2C	5.47-5.725	4+3	802.11n HT20	136	5680	MCS0	-	-
Mode 51	U-NII-2C	5.47-5.725	4+3	802.11n HT20	140	5700	MCS0	-	-
Mode 52	U-NII-2C	5.47-5.725	4+3	802.11n HT20	144	5720	MCS0	-	-
Mode 53	U-NII-2C	5.47-5.725	4+3	802.11n HT40	102	5510	MCS0	-	-
Mode 54	U-NII-2C	5.47-5.725	4+3	802.11n HT40	110	5550	MCS0	-	-
Mode 55	U-NII-2C	5.47-5.725	4+3	802.11n HT40	134	5670	MCS0	-	-

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 56	U-NII-2C	5.47-5.725	4+3	802.11n HT40	142	5710	MCS0	-	-
Mode 57	U-NII-2C	5.47-5.725	4+3	802.11ac VHT80	106	5530	MCS0	-	-
Mode 58	U-NII-2C	5.47-5.725	4+3	802.11ac VHT80	122	5610	MCS0	-	-
Mode 59	U-NII-2C	5.47-5.725	4+3	802.11ac VHT80	138	5690	MCS0	-	-
Mode 60	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	100	5500	MCS0	Full RU	-
Mode 61	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	100	5500	MCS0	26/0 RU	-
Mode 62	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	100	5500	MCS0	52/37 RU	-
Mode 63	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	100	5500	MCS0	106/53 RU	-
Mode 64	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	116	5580	MCS0	Full RU	-
Mode 65	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	136	5680	MCS0	Full RU	-
Mode 66	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	140	5700	MCS0	Full RU	-

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 67	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	140	5700	MCS0	26/8 RU	-
Mode 68	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	140	5700	MCS0	52/40 RU	-
Mode 69	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	140	5700	MCS0	106/54 RU	-
Mode 70	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	144	5720	MCS0	Full RU	-
Mode 71	U-NII-2C	5.47-5.725	4+3	802.11ax HE40	102	5510	MCS0	Full RU	-
Mode 72	U-NII-2C	5.47-5.725	4+3	802.11ax HE40	110	5550	MCS0	Full RU	-
Mode 73	U-NII-2C	5.47-5.725	4+3	802.11ax HE40	134	5670	MCS0	Full RU	-
Mode 74	U-NII-2C	5.47-5.725	4+3	802.11ax HE40	142	5710	MCS0	-	-
Mode 75	U-NII-2C	5.47-5.725	4+3	802.11ax HE80	106	5530	MCS0	Full RU	-
Mode 76	U-NII-2C	5.47-5.725	4+3	802.11ax HE80	122	5610	MCS0	Full RU	-
Mode 77	U-NII-2C	5.47-5.725	4+3	802.11ax HE80	138	5690	MCS0	-	-

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 78	U-NII-1	5.15-5.25	4+3	802.11a	44	5220	6Mbps	-	LF
Mode 79	U-NII-1	5.15-5.25	4+3	802.11a	44	5220	6Mbps	-	SHF

C1.2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11a	36	5148.50	51.65	54.00	-2.35	H	Avg.	Pass	-	Band Edge
	802.11a	36	10360.00	48.30	68.20	-19.90	V	Peak	Pass	-	Harmonic
2	802.11a	40	5150.00	50.72	54.00	-3.28	H	Avg.	Pass	-	Band Edge
	802.11a	40	15600.00	40.45	54.00	-13.55	H	Avg.	Pass	-	Harmonic
3	802.11a	44	5149.16	52.38	54.00	-1.62	H	Avg.	Pass	-	Band Edge
	802.11a	44	10440.00	48.65	68.20	-19.55	V	Peak	Pass	-	Harmonic
4	802.11a	48	5149.52	47.69	54.00	-6.31	H	Avg.	Pass	-	Band Edge
	802.11a	48	15720.00	39.34	54.00	-14.66	H	Avg.	Pass	-	Harmonic
5	802.11n HT20	36	5149.94	51.20	54.00	-2.80	H	Avg.	Pass	-	Band Edge
	802.11n HT20	36	10360.00	47.71	68.20	-20.49	H	Peak	Pass	-	Harmonic
6	802.11n HT20	40	5150.00	52.11	54.00	-1.89	H	Avg.	Pass	-	Band Edge

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	802.11n HT20	40	15600.00	40.31	54.00	-13.69	H	Avg.	Pass	-	Harmonic
7	802.11n HT20	44	5149.16	49.98	54.00	-4.02	H	Avg.	Pass	-	Band Edge
	802.11n HT20	44	10440.00	47.95	68.20	-20.25	H	Peak	Pass	-	Harmonic
8	802.11n HT20	48	5148.32	48.04	54.00	-5.96	H	Avg.	Pass	-	Band Edge
	802.11n HT20	48	15720.00	39.78	54.00	-14.22	H	Avg.	Pass	-	Harmonic
9	802.11n HT40	38	5149.91	49.42	54.00	-4.58	H	Avg.	Pass	-	Band Edge
	802.11n HT40	38	10380.00	48.07	68.20	-20.13	H	Peak	Pass	-	Harmonic
10	802.11n HT40	46	5148.12	50.94	54.00	-3.06	H	Avg.	Pass	-	Band Edge
	802.11n HT40	46	15690.00	40.90	54.00	-13.10	H	Avg.	Pass	-	Harmonic
11	802.11ac VHT80	42	5148.47	47.60	54.00	-6.40	H	Avg.	Pass	-	Band Edge
	802.11ac VHT80	42	10420.00	48.19	68.20	-20.01	H	Peak	Pass	-	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
12	802.11ax HE20	36	5149.94	51.70	54.00	-2.30	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	36	10360.00	48.03	68.20	-20.17	V	Peak	Pass	Full RU	Harmonic
13	802.11ax HE20	36	5139.14	49.47	54.00	-4.53	H	Avg.	Pass	26/0 RU	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	26/0 RU	Harmonic
14	802.11ax HE20	36	5145.62	46.78	54.00	-7.22	V	Avg.	Pass	52/37 RU	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	52/37 RU	Harmonic
15	802.11ax HE20	36	5148.14	51.40	54.00	-2.60	H	Avg.	Pass	106/53 RU	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	106/53 RU	Harmonic
16	802.11ax HE20	40	5150.00	50.80	54.00	-3.20	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	40	15600.00	41.32	54.00	-12.68	H	Avg.	Pass	Full RU	Harmonic
17	802.11ax HE20	44	5149.82	50.12	54.00	-3.88	H	Avg.	Pass	Full RU	Band Edge

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
17	802.11ax HE20	44	10440.00	48.53	68.20	-19.67	V	Peak	Pass	Full RU	Harmonic
18	802.11ax HE20	48	5149.52	50.81	54.00	-3.19	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	48	15720.00	39.37	54.00	-14.63	V	Avg.	Pass	Full RU	Harmonic
19	802.11ax HE40	38	5149.91	50.78	54.00	-3.22	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	38	10380.00	48.25	68.20	-19.95	V	Peak	Pass	Full RU	Harmonic
20	802.11ax HE40	46	5149.96	49.62	54.00	-4.38	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	46	15690.00	39.07	54.00	-14.93	H	Avg.	Pass	Full RU	Harmonic
21	802.11ax HE80	42	5148.05	49.05	54.00	-4.95	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	42	15630.00	39.53	54.00	-14.47	H	Avg.	Pass	Full RU	Harmonic
22	802.11a	52	5350.20	48.24	54.00	-5.76	V	Avg.	Pass	-	Band Edge
	802.11a	52	15780.00	39.27	54.00	-14.73	H	Avg.	Pass	-	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
23	802.11a	56	5350.02	50.38	54.00	-3.62	V	Avg.	Pass	-	Band Edge
	802.11a	56	10560.00	47.77	68.20	-20.43	V	Peak	Pass	-	Harmonic
24	802.11a	60	5350.40	51.70	54.00	-2.30	H	Avg.	Pass	-	Band Edge
	802.11a	60	10600.00	38.19	54.00	-15.81	H	Avg.	Pass	-	Harmonic
25	802.11a	64	5350.10	51.65	54.00	-2.35	V	Avg.	Pass	-	Band Edge
	802.11a	64	10640.00	38.37	54.00	-15.63	H	Avg.	Pass	-	Harmonic
26	802.11n HT20	52	5350.40	48.46	54.00	-5.54	V	Avg.	Pass	-	Band Edge
	802.11n HT20	52	15780.00	38.73	54.00	-15.27	V	Avg.	Pass	-	Harmonic
27	802.11n HT20	56	5350.02	49.03	54.00	-4.97	H	Avg.	Pass	-	Band Edge
	802.11n HT20	56	15840.00	37.68	54.00	-16.32	V	Avg.	Pass	-	Harmonic
28	802.11n HT20	60	5350.24	52.34	54.00	-1.66	H	Avg.	Pass	-	Band Edge

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
28	802.11n HT20	60	10600.00	38.22	54.00	-15.78	H	Avg.	Pass	-	Harmonic
29	802.11n HT20	64	5350.10	51.50	54.00	-2.50	V	Avg.	Pass	-	Band Edge
	802.11n HT20	64	10640.00	38.34	54.00	-15.66	H	Avg.	Pass	-	Harmonic
30	802.11n HT40	54	5350.18	51.38	54.00	-2.62	H	Avg.	Pass	-	Band Edge
	802.11n HT40	54	15811.00	38.50	54.00	-15.50	H	Avg.	Pass	-	Harmonic
31	802.11n HT40	62	5350.65	47.20	54.00	-6.80	H	Avg.	Pass	-	Band Edge
	802.11n HT40	62	10620.00	38.29	54.00	-15.71	V	Avg.	Pass	-	Harmonic
32	802.11ac VHT80	58	5352.90	47.05	54.00	-6.95	H	Avg.	Pass	-	Band Edge
	802.11ac VHT80	58	15870.00	39.24	54.00	-14.76	H	Avg.	Pass	-	Harmonic
33	802.11ax HE20	52	5350.60	50.21	54.00	-3.79	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	52	15780.00	38.88	54.00	-15.12	H	Avg.	Pass	Full RU	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
34	802.11ax HE20	56	5350.02	50.64	54.00	-3.36	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	56	10560.00	48.11	68.20	-20.09	H	Peak	Pass	Full RU	Harmonic
35	802.11ax HE20	60	5350.40	52.01	54.00	-1.99	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	60	10600.00	38.28	54.00	-15.72	H	Avg.	Pass	Full RU	Harmonic
36	802.11ax HE20	64	5350.10	52.32	54.00	-1.68	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	64	10640.00	38.43	54.00	-15.57	H	Avg.	Pass	Full RU	Harmonic
37	802.11ax HE20	64	5361.86	51.73	54.00	-2.27	V	Avg.	Pass	26/8 RU	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	26/8 RU	Harmonic
38	802.11ax HE20	64	5358.08	51.15	54.00	-2.85	H	Avg.	Pass	52/40 RU	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	52/40 RU	Harmonic
39	802.11ax HE20	64	5350.52	51.82	54.00	-2.18	V	Avg.	Pass	106/54 RU	Band Edge

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
39	802.11ax HE20	64	-	-	-	-	-	-	-	106/54 RU	Harmonic
40	802.11ax HE40	54	5350.18	51.71	54.00	-2.29	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	54	15810.00	38.42	54.00	-15.58	H	Avg.	Pass	Full RU	Harmonic
41	802.11ax HE40	62	5350.35	48.58	54.00	-5.42	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	62	10620.00	38.28	54.00	-15.72	V	Avg.	Pass	Full RU	Harmonic
42	802.11ax HE80	58	5357.66	47.57	54.00	-6.43	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	58	15866.00	39.28	54.00	-14.72	V	Avg.	Pass	Full RU	Harmonic
43	802.11a	100	5470.00	65.53	68.20	-2.67	V	Peak	Pass	-	Band Edge
	802.11a	100	16500.00	49.68	68.20	-18.52	H	Peak	Pass	-	Harmonic
44	802.11a	116	5456.95	44.28	54.00	-9.72	V	Avg.	Pass	-	Band Edge
	802.11a	116	11160.00	39.11	54.00	-14.89	H	Avg.	Pass	-	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
45	802.11a	136	5728.28	65.40	68.20	-2.80	V	Peak	Pass	-	Band Edge
	802.11a	136	17040.00	49.10	68.20	-19.10	V	Peak	Pass	-	Harmonic
46	802.11a	140	5727.56	65.60	68.20	-2.60	V	Peak	Pass	-	Band Edge
	802.11a	140	17100.00	49.69	68.20	-18.51	V	Peak	Pass	-	Harmonic
47	802.11a	144	5461.54	41.95	54.00	-12.05	V	Avg.	Pass	-	Band Edge
	802.11a	144	17160.00	50.15	68.20	-18.05	V	Peak	Pass	-	Harmonic
48	802.11n HT20	100	5469.85	64.93	68.20	-3.27	V	Peak	Pass	-	Band Edge
	802.11n HT20	100	16500.00	49.14	68.20	-19.06	H	Peak	Pass	-	Harmonic
49	802.11n HT20	116	5458.33	45.19	54.00	-8.81	V	Avg.	Pass	-	Band Edge
	802.11n HT20	116	16740.00	49.65	68.20	-18.55	H	Peak	Pass	-	Harmonic
50	802.11n HT20	136	5727.43	66.34	68.20	-1.86	V	Peak	Pass	-	Band Edge

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
50	802.11n HT20	136	17040.00	49.61	68.20	-18.59	H	Peak	Pass	-	Harmonic
51	802.11n HT20	140	5728.99	65.71	68.20	-2.49	V	Peak	Pass	-	Band Edge
	802.11n HT20	140	17100.00	49.96	68.20	-18.24	V	Peak	Pass	-	Harmonic
52	802.11n HT20	144	5458.42	41.94	54.00	-12.06	V	Avg.	Pass	-	Band Edge
	802.11n HT20	144	17160.00	49.82	68.20	-18.38	V	Peak	Pass	-	Harmonic
53	802.11n HT40	102	5468.72	65.02	68.20	-3.18	H	Peak	Pass	-	Band Edge
	802.11n HT40	102	16530.00	50.10	68.20	-18.10	V	Peak	Pass	-	Harmonic
54	802.11n HT40	110	5466.60	64.79	68.20	-3.41	H	Peak	Pass	-	Band Edge
	802.11n HT40	110	16650.00	49.94	68.20	-18.26	V	Peak	Pass	-	Harmonic
55	802.11n HT40	134	5727.76	66.16	68.20	-2.04	V	Peak	Pass	-	Band Edge
	802.11n HT40	134	17010.00	49.58	68.20	-18.62	V	Peak	Pass	-	Harmonic

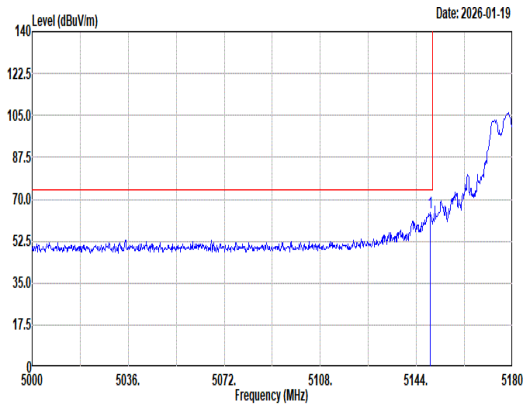
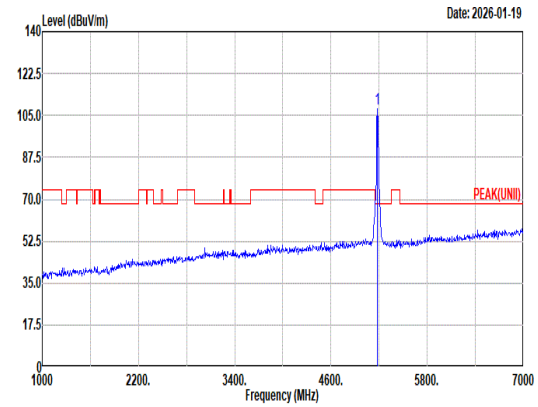
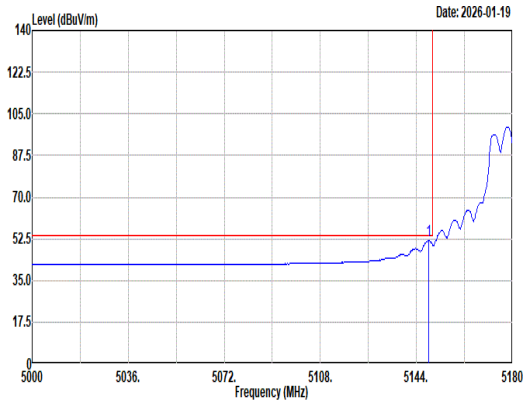
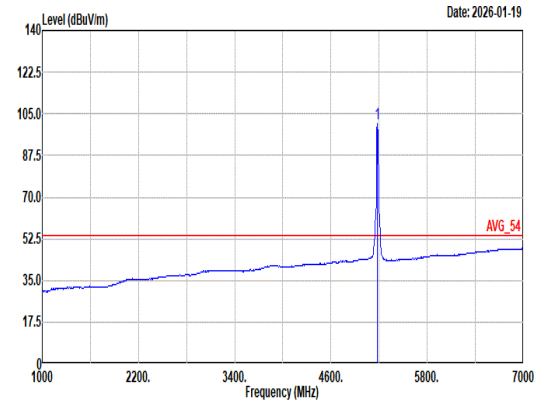
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
56	802.11n HT40	142	5862.75	64.90	68.20	-3.30	V	Peak	Pass	-	Band Edge
	802.11n HT40	142	17130.00	50.96	68.20	-17.24	V	Peak	Pass	-	Harmonic
57	802.11ac VHT80	106	5458.36	52.10	54.00	-1.90	V	Avg.	Pass	-	Band Edge
	802.11ac VHT80	106	16590.00	51.37	68.20	-16.83	H	Peak	Pass	-	Harmonic
58	802.11ac VHT80	122	5726.87	66.12	68.20	-2.08	V	Peak	Pass	-	Band Edge
	802.11ac VHT80	122	16830.00	49.69	68.20	-18.51	H	Peak	Pass	-	Harmonic
59	802.11ac VHT80	138	5851.00	63.85	68.20	-4.35	V	Peak	Pass	-	Band Edge
	802.11ac VHT80	138	17070.00	50.41	68.20	-17.79	V	Peak	Pass	-	Harmonic
60	802.11ax HE20	100	5465.80	66.15	68.20	-2.05	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	100	16500.00	50.07	68.20	-18.13	H	Peak	Pass	Full RU	Harmonic
61	802.11ax HE20	100	5457.70	52.03	54.00	-1.97	V	Avg.	Pass	26/0 RU	Band Edge

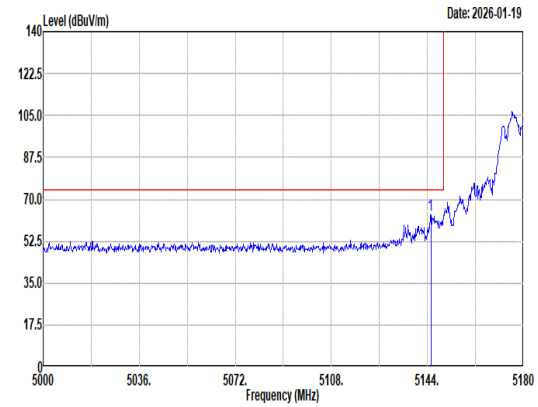
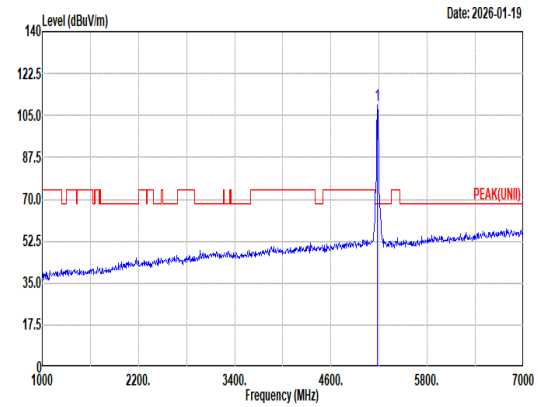
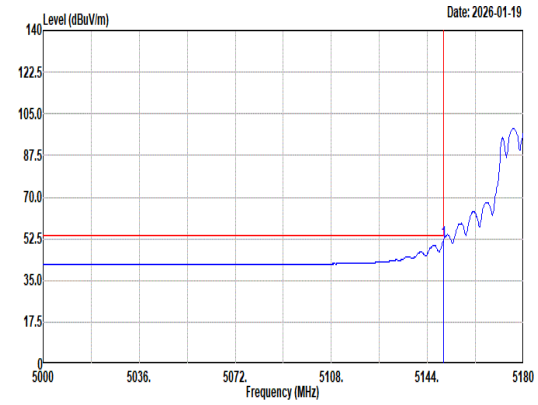
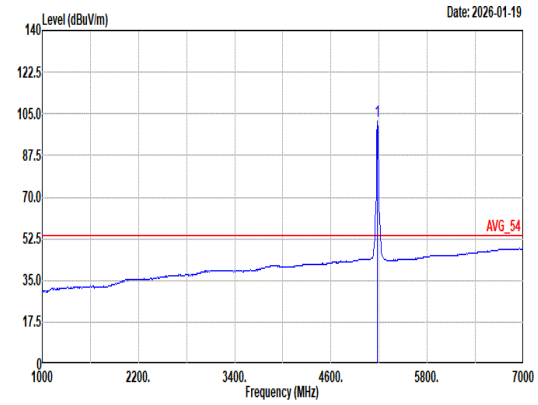
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
61	802.11ax HE20	100	-	-	-	-	-	-	-	26/0 RU	Harmonic
62	802.11ax HE20	100	5461.00	62.07	68.20	-6.13	H	Peak	Pass	52/37 RU	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	52/37 RU	Harmonic
63	802.11ax HE20	100	5469.85	64.96	68.20	-3.24	V	Peak	Pass	106/53 RU	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	106/53 RU	Harmonic
64	802.11ax HE20	116	5458.79	47.38	54.00	-6.62	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	116	11160.00	37.82	54.00	-16.18	H	Avg.	Pass	Full RU	Harmonic
65	802.11ax HE20	136	5726.75	64.64	68.20	-3.56	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	136	17040.00	49.38	68.20	-18.82	V	Peak	Pass	Full RU	Harmonic
66	802.11ax HE20	140	5726.33	66.44	68.20	-1.76	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	140	11400.00	37.82	54.00	-16.18	H	Avg.	Pass	Full RU	Harmonic

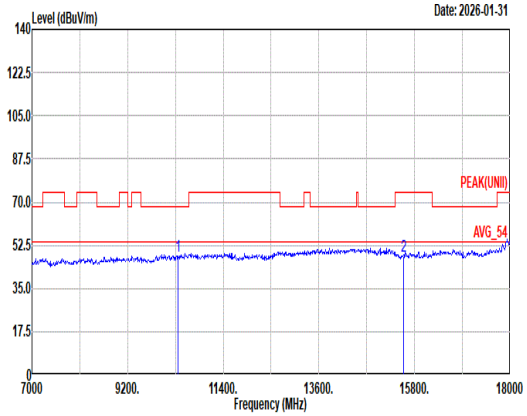
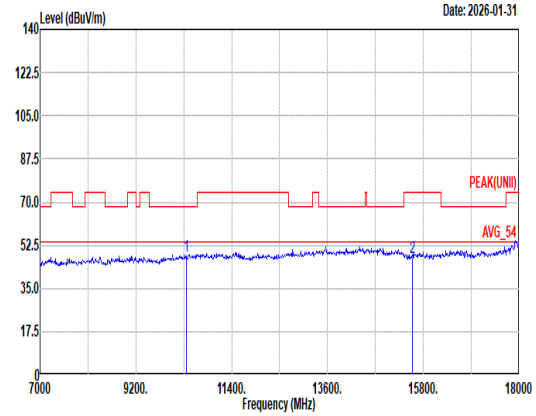
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
67	802.11ax HE20	140	5742.58	63.62	68.20	-4.58	V	Peak	Pass	26/8 RU	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	26/8 RU	Harmonic
68	802.11ax HE20	140	5735.49	54.27	68.20	-13.93	H	Peak	Pass	52/40 RU	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	52/40 RU	Harmonic
69	802.11ax HE20	140	5725.68	57.10	68.20	-11.10	V	Peak	Pass	106/54 RU	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	106/54 RU	Harmonic
70	802.11ax HE20	144	5469.73	41.94	54.00	-12.06	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	144	11440.00	38.21	54.00	-15.79	V	Avg.	Pass	Full RU	Harmonic
71	802.11ax HE40	102	5465.52	65.20	68.20	-3.00	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	102	11020.00	38.70	54.00	-15.30	V	Avg.	Pass	Full RU	Harmonic
72	802.11ax HE40	110	5460.00	51.17	54.00	-2.83	V	Avg.	Pass	Full RU	Band Edge

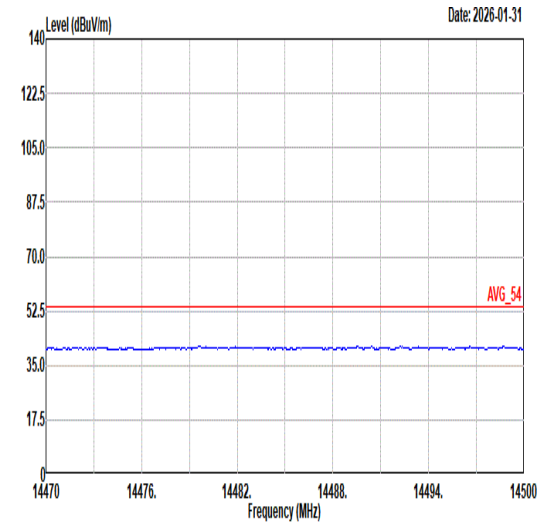
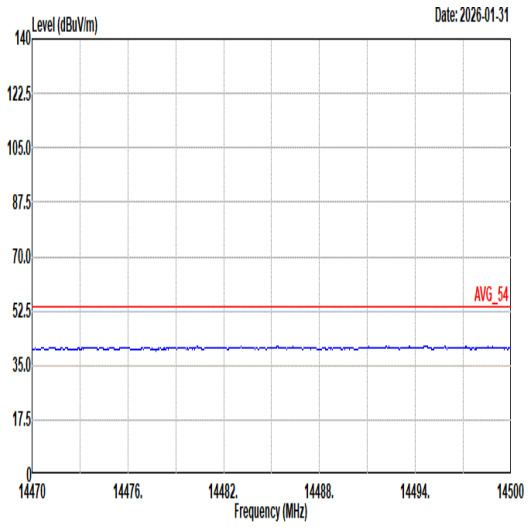
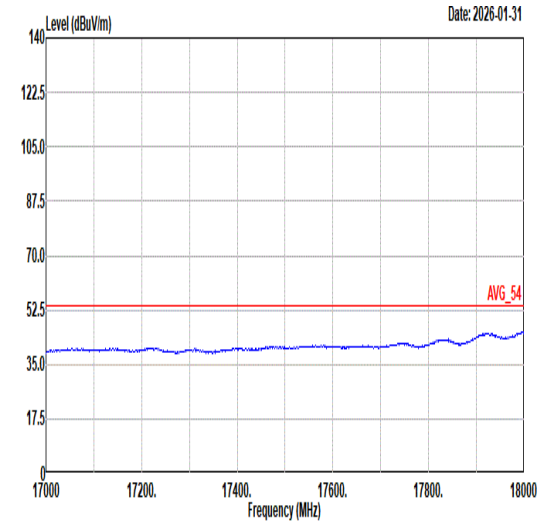
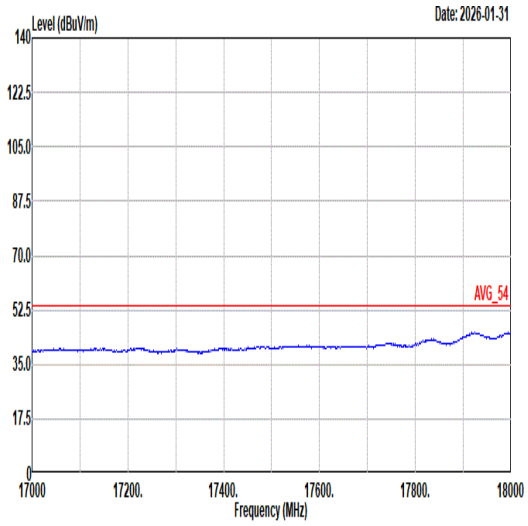
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
72	802.11ax HE40	110	11100.00	38.81	54.00	-15.19	H	Avg.	Pass	Full RU	Harmonic
73	802.11ax HE40	134	5726.43	65.45	68.20	-2.75	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	134	11340.00	38.22	54.00	-15.78	V	Avg.	Pass	Full RU	Harmonic
74	802.11ax HE40	142	5853.75	65.92	68.20	-2.28	V	Peak	Pass	-	Band Edge
	802.11ax HE40	142	11420.00	38.65	54.00	-15.35	H	Avg.	Pass	-	Harmonic
75	802.11ax HE80	106	5459.98	51.91	54.00	-2.09	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	106	11060.00	38.68	54.00	-15.32	V	Avg.	Pass	Full RU	Harmonic
76	802.11ax HE80	122	5731.52	63.87	68.20	-4.33	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE80	122	11220.00	39.08	54.00	-14.92	V	Avg.	Pass	Full RU	Harmonic
77	802.11ax HE80	138	5861.80	64.80	68.20	-3.40	V	Peak	Pass	-	Band Edge
	802.11ax HE80	138	17070.00	50.32	68.20	-17.88	H	Peak	Pass	-	Harmonic

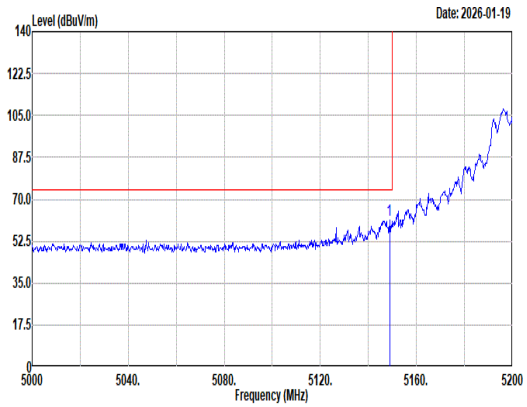
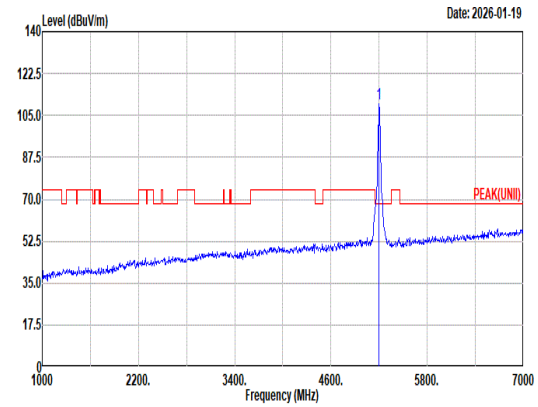
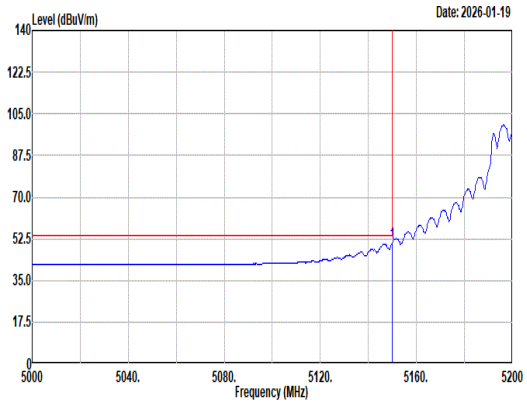
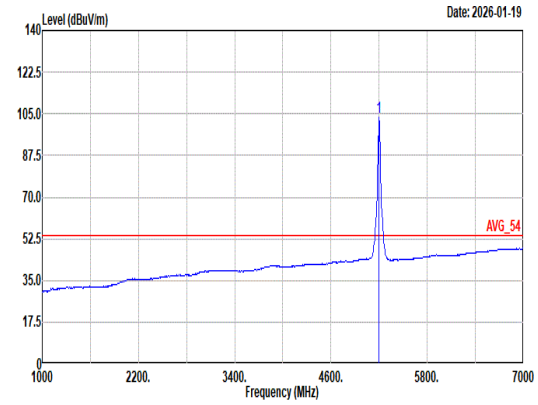
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
78	LF	44	38.73	36.87	40.00	-3.13	V	QP	Pass	-	LF
79	SHF	44	36249.00	45.88	68.20	-22.32	H	Peak	Pass	-	SHF

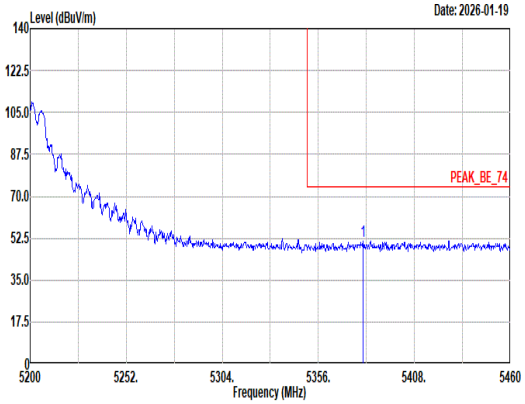
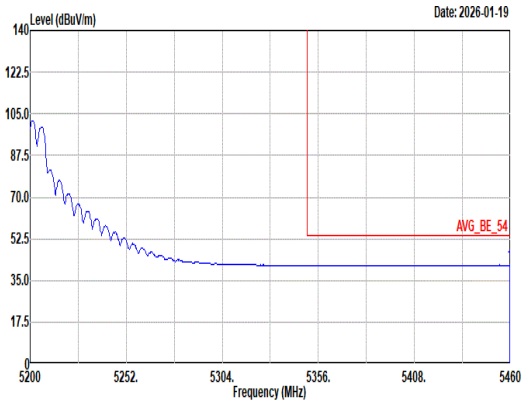
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	4+3	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition: PEAK_BE_74 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5149.22 64.66 74.00 -9.34 56.13 33.30 11.42 36.19 0.00 136 360 Peak	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5180.00 107.69 ------ ------ 99.19 33.25 11.44 36.19 0.00 136 360 Peak
Avg	 Site : 03CH16-HY Condition: AVG_BE_54 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto 1 5148.50 51.65 54.00 -2.35 43.13 33.29 11.42 36.19 0.00 136 360 Average	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto 1 5180.00 101.07 ------ ------ 92.57 33.25 11.44 36.19 0.00 136 360 Average

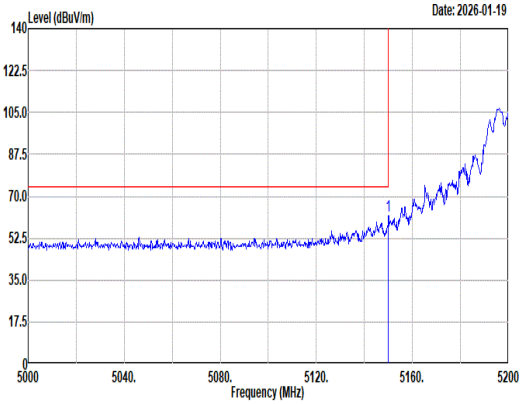
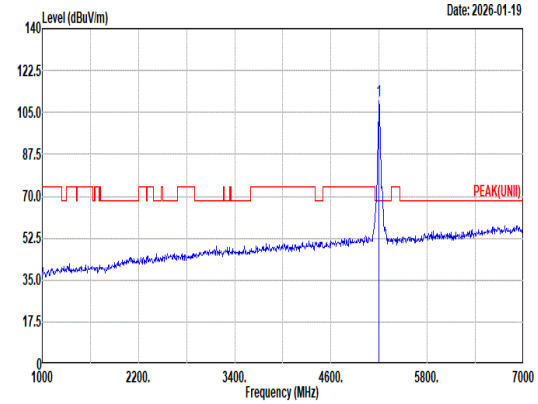
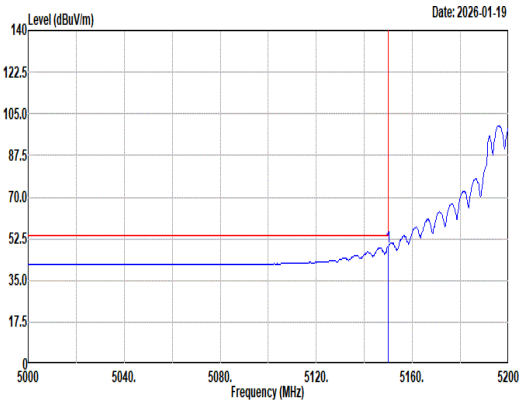
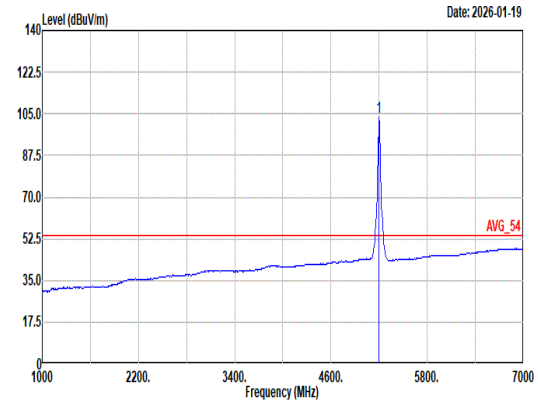
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	4+3	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition: PEAK_BE_74 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5145.26 63.43 74.00 -10.57 54.92 33.28 11.42 36.19 0.00 300 88 Peak	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5180.00 109.37 ------ ------ 100.87 33.24 11.45 36.19 0.00 300 88 Peak
Avg	 Site : 03CH16-HY Condition: AVG_BE_54 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.94 51.44 54.00 -2.56 42.91 33.30 11.42 36.19 0.00 300 88 Average	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5180.00 102.05 ------ ------ 93.55 33.24 11.45 36.19 0.00 300 88 Average

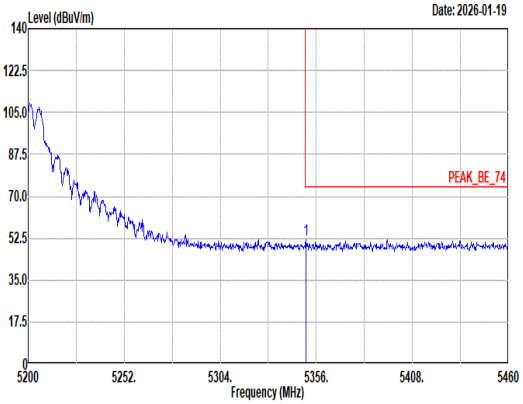
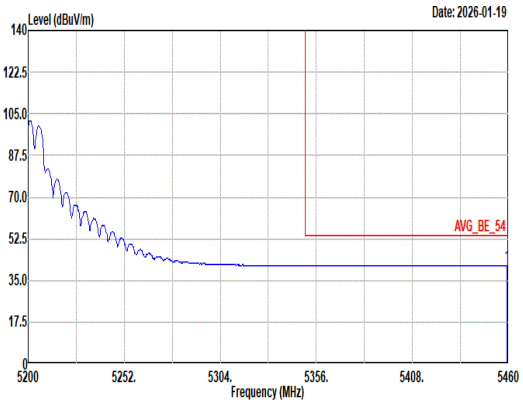
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	4+3	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 9120D-1522_250327 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10360.00 48.08 68.20 -20.12 59.14 38.70 16.14 66.88 0.98 -- -- Peak 2 15540.00 47.94 74.00 -26.06 55.58 38.23 19.88 66.41 0.66 -- -- Peak	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 9120D-1522_250327 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10360.00 48.30 68.20 -19.90 59.36 38.70 16.14 66.88 0.98 -- -- Peak 2 15540.00 47.77 74.00 -26.23 55.41 38.23 19.88 66.41 0.66 -- -- Peak

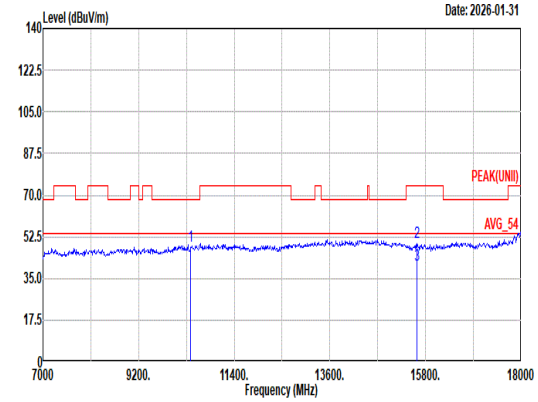
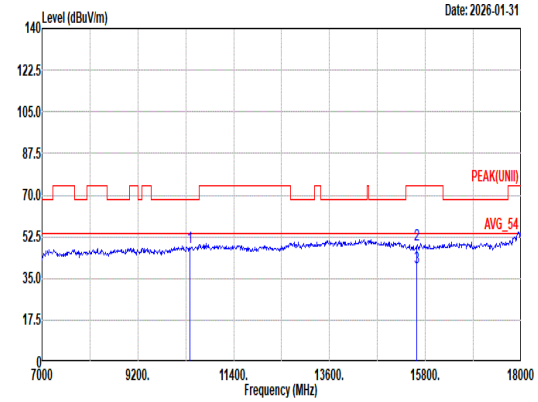
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	4+3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 VERTICAL
17G ~18G Avg	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 VERTICAL

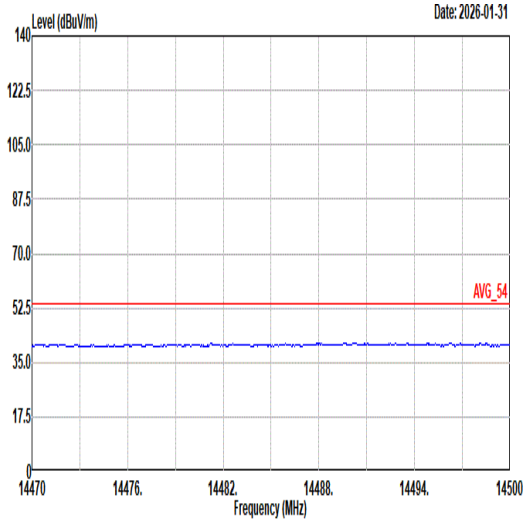
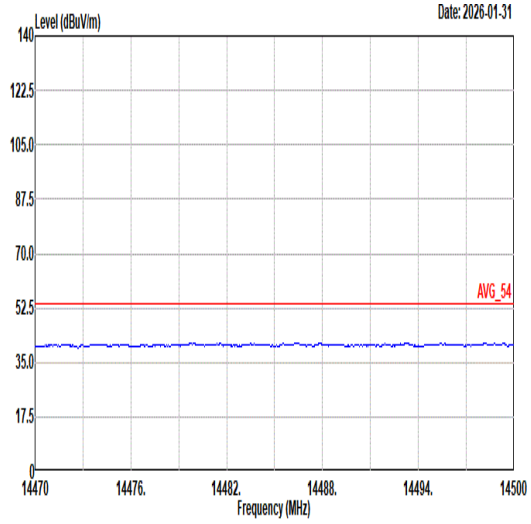
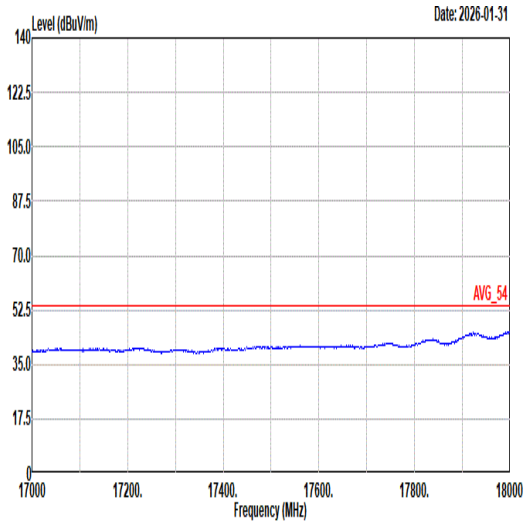
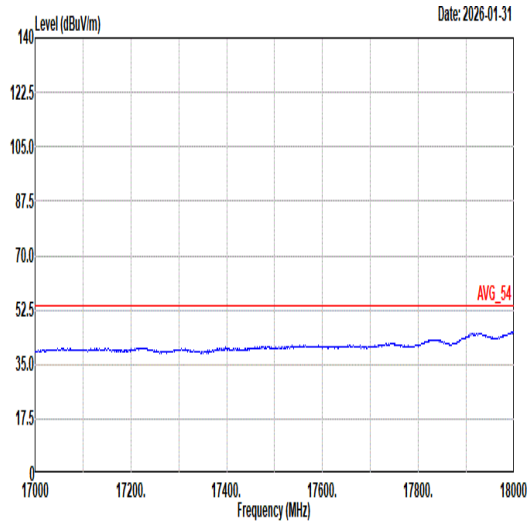
Mode	2	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH40_5200MHz	
ANT	4+3	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition: PEAK_BE_74 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5148.80 61.24 74.00 -12.76 52.71 33.30 11.42 36.19 0.00 200 328 Peak	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5200.00 109.92 ------ ------ 101.45 33.20 11.46 36.19 0.00 200 328 Peak
Avg	 Site : 03CH16-HY Condition: AVG_BE_54 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5150.00 50.72 54.00 -3.28 42.19 33.30 11.42 36.19 0.00 200 328 Average	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5200.00 103.62 ------ ------ 95.15 33.20 11.46 36.19 0.00 200 328 Average

Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH40_5200MHz	
ANT	4+3	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition: PEAK_BE_74 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5380.18 51.45 74.00 -22.55 42.92 33.06 11.69 36.22 0.00 200 328 Peak	Blank
Avg	 Site : 03CH16-HY Condition: AVG_BE_54 3m 9120D-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5459.48 41.49 54.00 -12.51 32.92 33.02 11.78 36.23 0.00 200 328 Average	Blank

Mode	2	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH40_5200MHz	
ANT	4+3	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition: PEAK_BE_74 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5150.00 61.59 74.00 -12.41 53.06 33.30 11.42 36.19 0.00 267 86 Peak	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5200.00 109.79 ------ ------ 101.32 33.20 11.46 36.19 0.00 267 86 Peak
Avg	 Site : 03CH16-HY Condition: AVG_BE_54 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.80 49.12 54.00 -4.88 40.59 33.30 11.42 36.19 0.00 267 86 Average	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5200.00 103.65 ------ ------ 95.18 33.20 11.46 36.19 0.00 267 86 Average

Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH40_5200MHz	
ANT	4+3	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition: PEAK_BE_74 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5350.54 51.61 74.00 -22.39 43.16 33.00 11.66 36.21 0.00 267 86 Peak	Blank
Avg	 Site : 03CH16-HY Condition: AVG_BE_54 3m 9120D-1522_250327 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5459.22 41.45 54.00 -12.55 32.88 33.02 11.78 36.23 0.00 267 86 Average	Blank

Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH40_5200MHz	
ANT	4+3	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 9120D-1522_250327 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10400.00 48.37 68.20 -19.83 59.37 38.70 16.17 66.84 0.97 -- -- Peak 2 15600.00 50.34 74.00 -23.66 58.24 37.99 19.92 66.47 0.66 100 358 Peak 3 15600.00 40.45 54.00 -13.55 48.34 38.00 19.92 66.47 0.66 100 358 Average	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 9120D-1522_250327 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10400.00 47.83 68.20 -20.37 58.83 38.70 16.17 66.84 0.97 -- -- Peak 2 15600.00 49.12 74.00 -24.88 57.01 38.00 19.92 66.47 0.66 100 336 Peak 3 15600.00 39.66 54.00 -14.34 47.55 38.00 19.92 66.47 0.66 100 336 Average

Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH40_5200MHz	
ANT	4+3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 VERTICAL
17G ~18G Avg	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 9120D-1522_250327 VERTICAL