TEST REPORT

Report Number: 16025787-E5V2

Applicant	:	Garmin International Inc. 1200 East 151st Street Olathe, KS 66062-3426, USA
Model	:	A05115
Brand	:	Garmin
FCC ID	:	IPH-05115
IC	:	1792A-05115
EUT Description	:	Portable Digital Transceiver
Test Standard(s)	:	FCC 47 CFR PART 15 SUBPART E ISED RSS-247 ISSUE 4 ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2026-01-09

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538 U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888

ACCREDITED
CERT #0751.05

REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2026-01-07	Initial Review	---
V2	2026-01-09	Updated Section 6.1	Tina Chu

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

TABLE OF CONTENTS

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

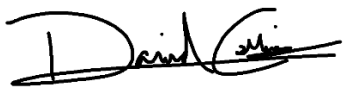
1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	Garmin International Inc. 1200 East 151st Street Olathe, KS 66062-3426, USA
Model	A05115
Brand	Garmin
FCC ID	IPH-05115
IC	1792A-05115
EUT Description	Portable Digital Transceiver
Serial Number	352203550 (Conducted); 3522388756 (Radiated)
Sample Receipt Date	2025-10-14
Date Tested	2025-10-15 to 2025-11-21
Applicable Standards	FCC 47 CFR Part 15 Subpart E ISED RSS-247 Issue 4 ISED RSS-GEN Issue 5 + A1 + A2
Test Results	COMPLIES

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the sample tested, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to ensure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. And all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released By:	Prepared By:
	
Henry Lau Senior Project Engineer UL Verification Services Inc.	David Collins Senior Test Engineer UL Verification Services Inc.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

2. TEST RESULT SUMMARY

This report contains data provided by the customer, which can impact on the validity of the results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result
Duty Cycle	-	-	Reporting purposes only
26dB BW/99% OBW	-	RSS-GEN 6.7	Complies
6 dB BW	15.407 (e)	RSS-247 7.3.4.2	Complies
Output Power	15.407 (a) (1-4), (h) (1)	RSS-247 7.3	Complies
PSD	15.407 (a) (1-3, 5)	RSS-247 7.3	Complies
Radiated Emissions	15.209, 15.205, 15.407 (b)	RSS-GEN 8.9, 8.10, RSS-247 7.3	Complies
AC Mains Conducted Emissions	15.207	RSS-Gen 8.8	Not applicable. EUT is powered by a battery/DC power supply

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- ANSI C63.10-2020 (FCC)
- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+ Errata to C63.10a-2024 (ISED)
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules
- FCC KDB 414788 D01 Radiated Test Site
- RSS-GEN Issue 5 + A1 +A2
- RSS-247 Issue 4

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☐	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated regularly, with a maximum time between calibrations of one year or the manufacturer's recommendation, whichever is less, and where applicable, are traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB (Ave), 1.30 dB (PK)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:
Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
36.5 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a Portable Digital Transceiver.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Band	Mode	Min Frequency (MHz)	Max Frequency (MHz)	Output Power (dBm)	Output Power (mW)
UNII-1 (FCC)	11a	5180	5240	16.39	43.55
	11n HT20	5180	5240	16.82	48.08
	11n HT40	5190	5230	17.68	**58.61**
	11ac VHT80	5210	5210	10.00	10.00
UNII-2A	11a	5260	5320	18.95	**78.52**
	11n HT20	5260	5320	18.66	73.45
	11n HT40	5270	5310	13.54	22.59
	11ac VHT80	5290	5290	11.25	13.34
UNII-2C	11a	5500	5700	18.12	**64.86**
	11n HT20	5500	5700	17.80	60.26
	11n HT40	5510	5670	17.02	50.35
	11ac VHT80	5530	5610	16.46	44.26
UNII-3	11a	5745	5825	17.93	**62.09**
	11n HT20	5745	5825	17.46	55.72
	11n HT40	5755	5795	16.65	46.24
	11ac VHT80	5775	5775	16.00	39.81

Band	Mode	Min Frequency (MHz)	Max Frequency (MHz)	EIRP Output Power (dBm)	EIRP Output Power (mW)
UNII_1 (ISED)	11a	5180	5240	19.59	90.99
	11n HT20	5180	5240	20.02	100.46
	11n HT40	5190	5230	20.88	**122.46**
	11ac VHT80	5210	5210	13.20	20.89

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antenna(s) gain, type, and cable loss, as provided by the manufacturer, are as follows:

The radio utilizes a PIFA antenna.

Frequency Band	Peak Gain (dBi)	Cable Loss (dB)
5.15 to 5.25 GHz	3.20	0.07
5.25 to 5.35 GHz	3.85	0.07
5.47 to 5.725 GHz	3.85	0.08
5.725 to 5.85 GHz	3.60	0.08

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware and software installed during testing were versions 0.74 and 1.24.

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz and above 18GHz were performed with the EUT set to transmit at the channel with the highest output power as a worst-case scenario.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle, and high channels.

EUT was investigated in three orthogonal orientations: X (Flatbed), Y (Landscape), and Z (Portrait). The Y (Landscape) is the worst-case orientation. The full tests of the EUT have been made upon Y (Landscape) orientation. After investigation, the worst configuration set for all radiated tests is with EUT powered by an internal battery, and the USB-C port is terminated by a laptop via USB cable.

Worst data rates provided by the manufacturer as follows:

802.11a mode: 6Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0
802.11n VHT80 mode: MCS0

Plots included in the report are representative of the method and settings parameters used for the test.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

6.6. DESCRIPTION OF TEST SETUP

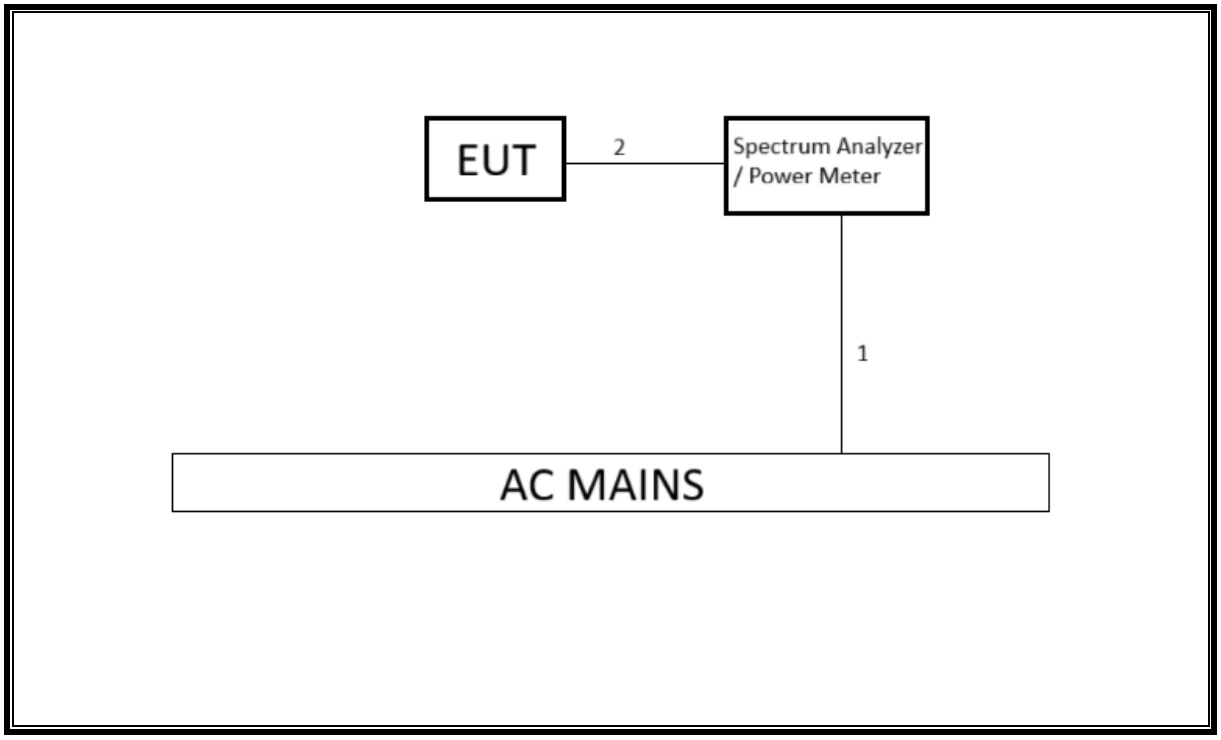
SUPPORT TEST EQUIPMENT						
Description		**Manufacturer**	**Model**	**Serial Number**		**FCC ID/ DoC**
Laptop		Lenovo	T460s	PC0K7DPE		DOC
Laptop AC/DC adapter		Lenovo	ADLX65NCC2A	11S36200284ZZ10046BP9N		DOC
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	AC	1	3-prongs	Un-Shielded	1.8	AC Mains to Analyzer/Power Meter
2	Antenna	1	SMA	Shielded	0.1	Analyzer/Power Meter to EUT
I/O CABLES (RF RADIATED TEST)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	DC	1	DC	Shielded	1.8	AC/DC Adapter to Laptop
2	AC	1	2-prongs	Unshielded	1.8	AC Mains to AC/DC Adapter
3	USB	1	USB-C	Shielded	1	Laptop to EUT

TEST SETUP

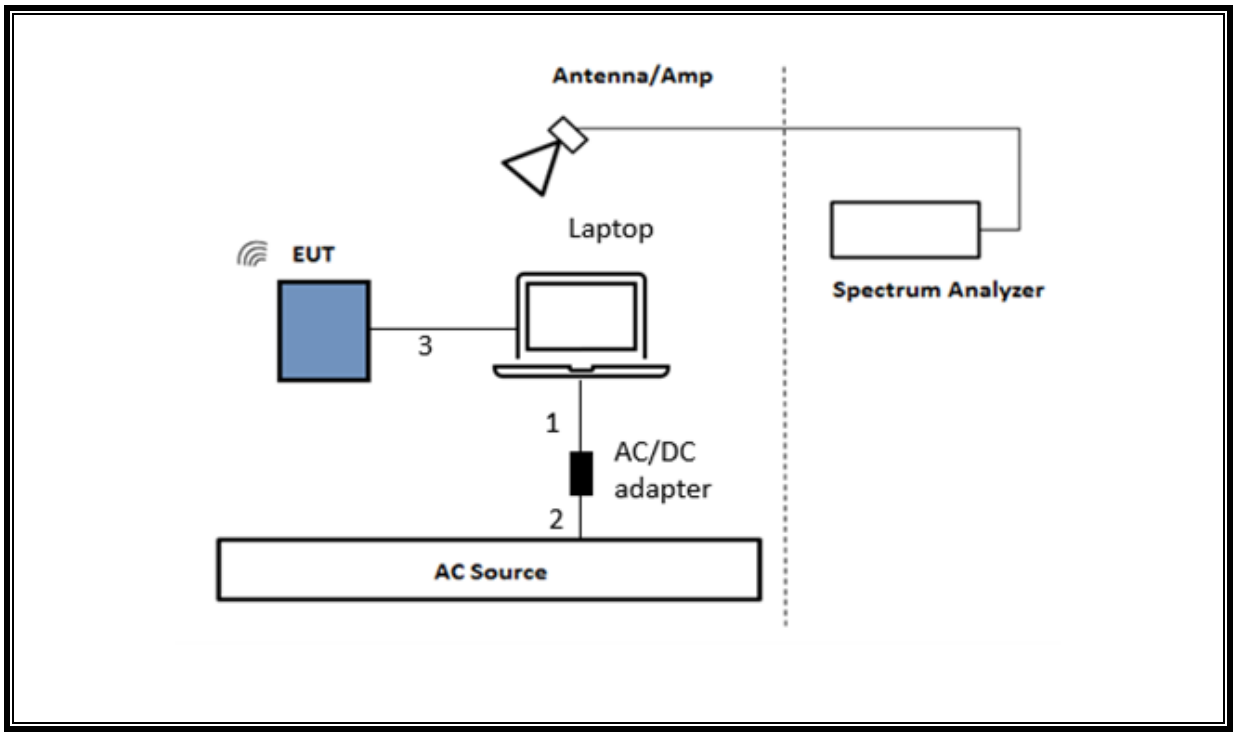
The EUT setup is shown below. Test software exercised the radio card.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

SETUP DIAGRAM FOR CONDUCTED TESTS



SETUP DIAGRAM FOR RADIATED TESTS



UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

7. MEASUREMENT METHOD

TEST ITEM	TEST METHOD
On Time and Duty Cycle	ANSI C63.10 Subclause -12.2
6 dB Emission BW	ANSI C63.10 Subclause -12.5.1
26 dB Emission BW	ANSI C63.10 Subclause -12.5.2
99% Occupied BW	ANSI C63.10 Subclause - 6.9.3
Conducted Output Power	ANSI C63.10 Subclause -12.4.3.2
Power Spectral Density	ANSI C63.10 Subclause -12.6
Unwanted Emissions in Restricted Bands	ANSI C63.10 Subclause -12.7.2
Unwanted Emissions in Non-Restricted Bands	ANSI C63.10 Subclause -12.7.3
AC Power Line Conducted Emissions	ANSI C63.10, Section 6.2
Radiated Spurious Emissions Below 30MHz	ANSI C63.10, Section 6.4

8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**ID Num**	**Cal Due**
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	81140	2027-05-31
RF Device, Active, Amplifier, 26.5	AMPLICAL	AMP26G40-60	236107	2026-05-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gainr	UL-FR1	AMP18G26.5-60	215705	2026-10-31
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	230656	2027-05-31
Link File, RF Amplifier Assembly, 26-40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	221834	2026-05-31
EMI Test Receiver	Rohde & Schwarz	ESW44	225688	2026-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80707	2027-08-31
RF Filter Box, 1-18GHz	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171875	2026-03-31
Antenna, Passive Loop 100kHz to 30MHz	ELECTRO-METRICS	EM-6872	219910	2026-08-31
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	219908	2026-08-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	202329	2027-04-30
Link File, 9KHz-1GHz Port 0 Factors	UL-FR1	Port 0 Factors	213877	2026-03-31
EMI TEST RECEIVER, with B8 option	Rohde & Schwarz	ESW44	245268	2026-02-28
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	252765	Verified
P-Series Power Meter	Keysight Technologies Inc	N1912A-CFG003	259286	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257703	2026-03-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	80396	2026-01-31

UL AUTOMATION SOFTWARE			
Radiated Software	UL	UL EMC	Ver 9.5, 25 Aug 2025
Conducted Software	UL	UL EMC	2024.2.23

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

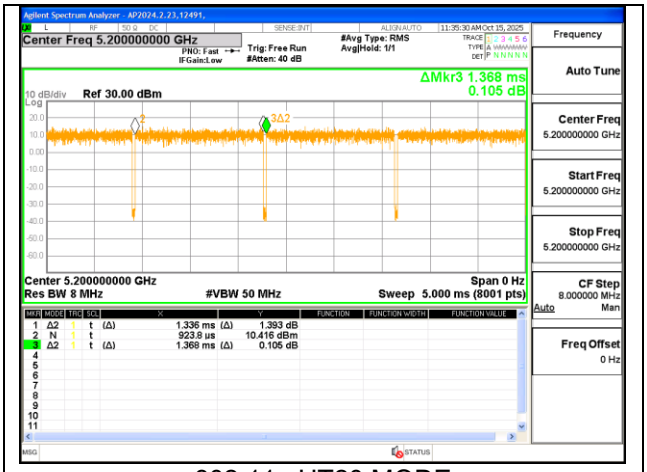
PROCEDURE

ANSI C63.10 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time T	Period	Duty Cycle x (linear)	Duty Cycle (%)	DCCF (dB)	1/T Minimum VBW (kHz)
802.11a	1.428	1.459	0.98	97.81	0.10	0.70
802.11n HT20	1.336	1.368	0.98	97.62	0.10	0.75
802.11n HT40	0.664	0.696	0.95	95.43	0.20	1.51
802.11ac VHT80	0.332	0.363	0.91	91.22	0.40	3.02

DUTY CYCLE PLOTS



802.11n HT20 MODE

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

9.2. 99%, 26 dB, AND 6 dB BANDWIDTHS

LIMITS

99% BANDWIDTH LIMITS

None; for reporting purposes only.

26 dB BANDWIDTH LIMITS

None; for reporting purposes only.

6 dB BANDWIDTH LIMITS

FCC §15.407 (e)

RSS-247 7.3.4.2

The minimum bandwidth of 6 dB shall be at least 500 kHz.

RESULTS

Plots included in the report are representative of the method and settings parameters used for the test.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

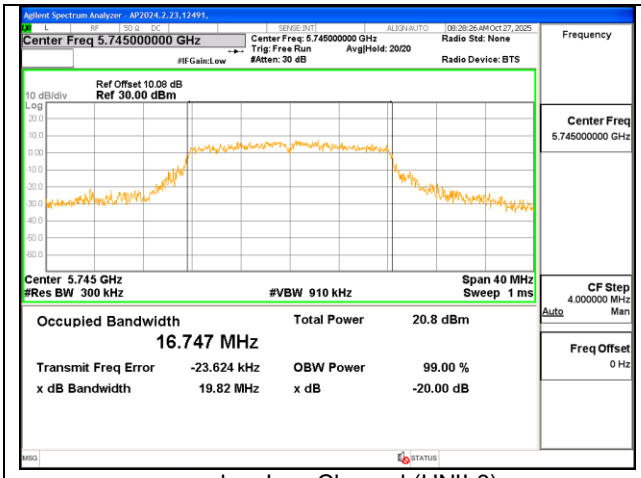
Band	No. of Tx	Mode	Channel	Freq (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
UNII-1	1	11a	36	5180	16.798	23.440
			40	5200	**16.804**	23.680
			48	5240	16.776	23.640
		11n HT20	36	5180	17.796	26.440
			40	5200	**17.909**	26.440
			48	5240	17.808	26.240
		11n HT40	38	5190	36.169	44.320
			46	5230	**36.223**	44.240
		11ac VHT80	42	5210	**75.731**	84.160
UNII-2A	1	11a	52	5260	**16.927**	22.560
			56	5280	16.727	24.160
			60	5300	16.735	24.320
			64	5320	16.774	23.800
		11n HT20	52	5260	**17.897**	22.480
			56	5280	17.867	27.080
			60	5300	17.872	26.200
			64	5320	17.765	22.000
		11n HT40	54	5270	36.152	40.640
			62	5310	**36.172**	40.800
		11ac VHT80	58	5290	**75.595**	83.040
UNII-2C	1	11a	100	5500	16.707	22.040
			116	5580	**16.785**	24.120
			140	5700	16.669	22.040
		11n HT20	100	5500	17.782	22.200
			116	5580	**17.831**	28.360
			140	5700	17.820	27.480
		11n HT40	102	5510	36.177	40.640
			110	5550	**36.197**	44.240
			134	5670	36.160	44.800
		11ac VHT80	106	5530	75.612	83.040
			122	5610	**75.643**	83.680

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

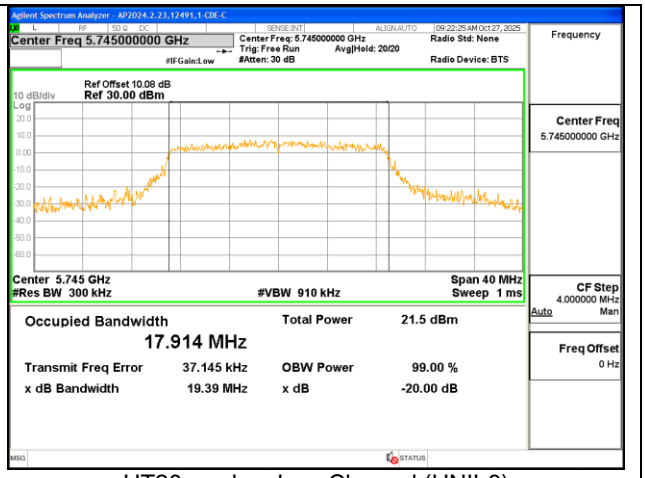
Band	No. of Tx	Mode	Channel	Freq (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	6dB Bandwidth (MHz)	6dB Minimum Limit (MHz)
UNII-3	1	11a	149	5745	16.747	23.480	16.328	0.5
			157	5785	**16.829**	22.200	16.380	0.5
			165	5825	16.808	23.840	16.324	0.5
		11n HT20	149	5745	**17.914**	28.040	17.556	0.5
			157	5785	17.906	27.920	17.632	0.5
			165	5825	17.840	28.440	17.580	0.5
		11n HT40	151	5755	**36.209**	44.960	36.072	0.5
			159	5795	36.194	44.960	35.832	0.5
		11ac VHT80	155	5775	**75.753**	83.040	75.152	0.5

99% Bandwidth Plots

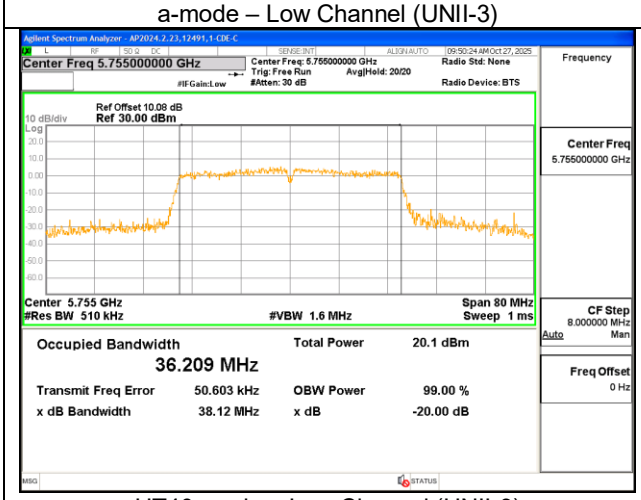
U-NII-3



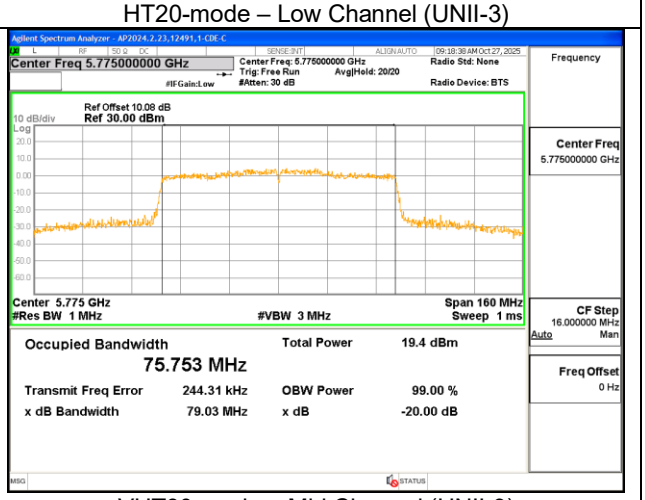
a-mode – Low Channel (UNII-3)



HT20-mode – Low Channel (UNII-3)



HT40-mode – Low Channel (UNII-3)

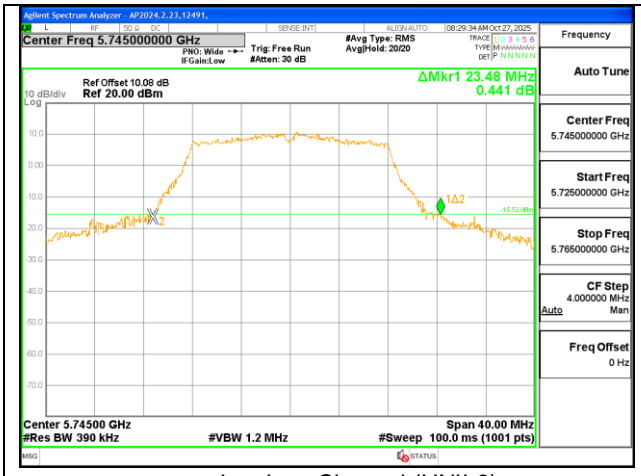


VHT80-mode – Mid Channel (UNII-3)

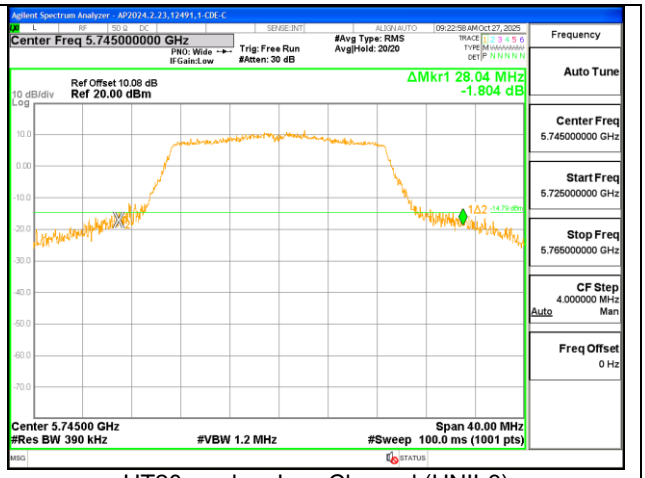
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

26 dB Bandwidth Plots

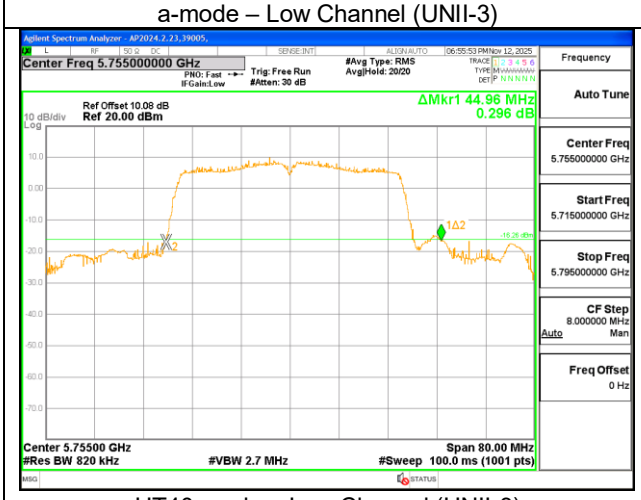
U-NII-3



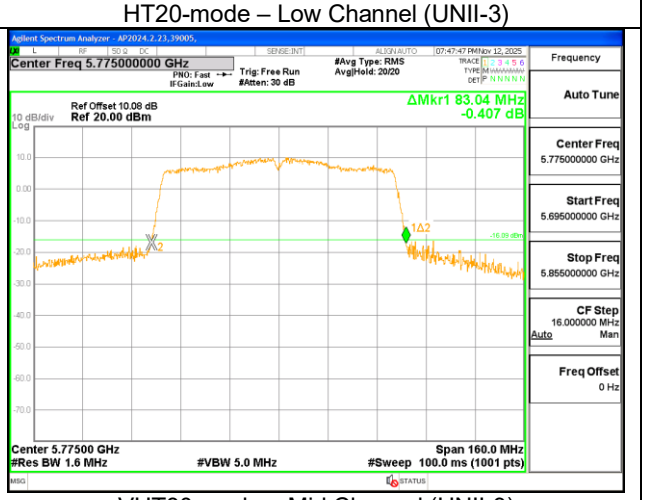
a-mode – Low Channel (UNII-3)



HT20-mode – Low Channel (UNII-3)



HT40-mode – Low Channel (UNII-3)

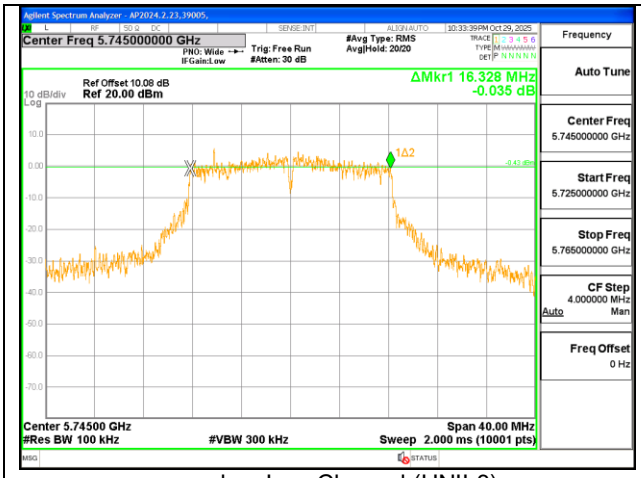


VHT80-mode – Mid Channel (UNII-3)

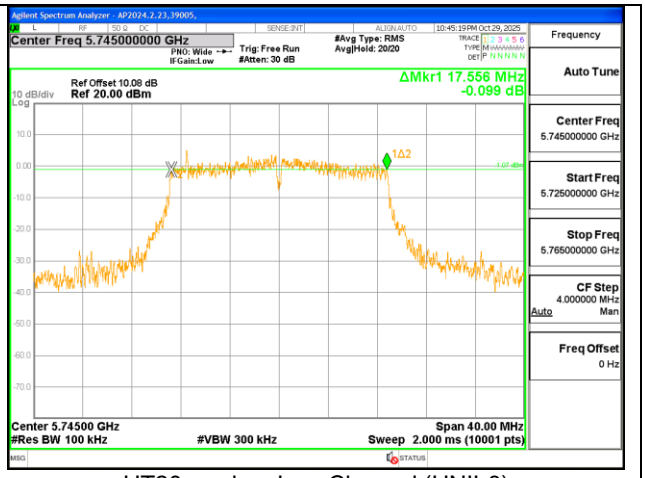
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

6 dB Bandwidth Plots

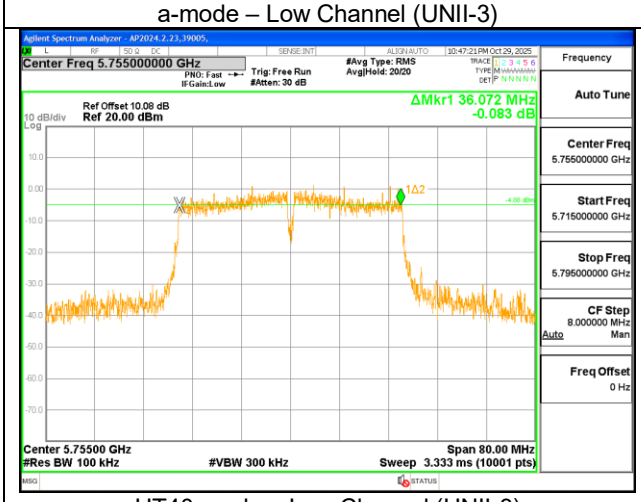
U-NII-3



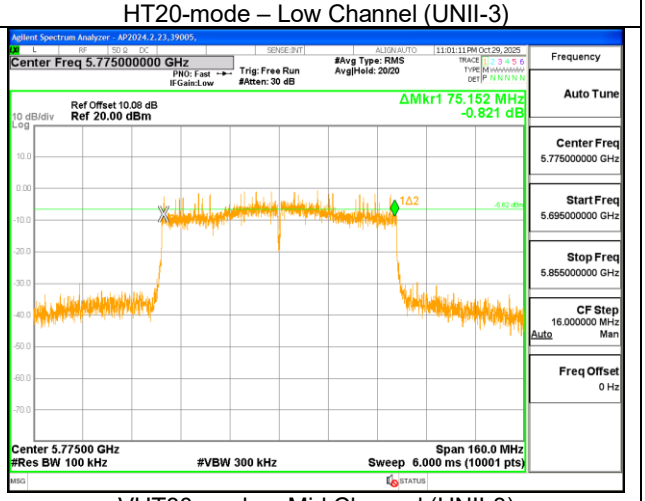
a-mode – Low Channel (UNII-3)



HT20-mode – Low Channel (UNII-3)



HT40-mode – Low Channel (UNII-3)



VHT80-mode – Mid Channel (UNII-3)

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

9.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz
(iv) 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 provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power, and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz
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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power, and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Band 5.725-5.85 GHz
The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power, and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

RSS-247

Band 5.15–5.25 GHz
7.3.1.2
For all other devices, the maximum e.i.r.p. spectral density shall not exceed 10 dBm/MHz. The maximum e.i.r.p. shall not exceed the lesser of:

a. 200 mW; or
b. $10 + 10 \log_{10} B$, dBm.

Band 5.25-5.35 GHz
7.3.2.2
All other devices shall comply with the following:

a. the maximum power spectral density shall not exceed 11 dBm/MHz and the maximum conducted output power shall not exceed the lesser of:
    i. 250 mW; or
    ii. $11 + 10 \log_{10} B$, dBm.
b. the maximum e.i.r.p. shall not exceed the lesser of:
    i. 1.0 W; or
    ii. $17 + 10 \log_{10} B$, dBm.
c. Devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

Band 5.47-5.725 GHz
7.3.3.2
Equipment operating in the 5470-5725 MHz band shall comply with the following power limits:

a. the maximum conducted output power shall not exceed the lesser of:

   i. 250 mW; or
   ii. 11 + 10 $\log_{10}$B, dBm.

b. The maximum power spectral density shall not exceed 11 dBm/MHz.

c. the maximum e.i.r.p. shall not exceed the lesser of:

   i. 1.0 W; or
   ii. 17 + 10 $\log_{10}$B, dBm.

d. Equipment with a maximum e.i.r.p. greater than 500 mW shall implement TPC to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz
7.3.4.3
Equipment operating in the band 5725-5850 shall comply with the following power limits:

a. The maximum conducted output power shall not exceed 1 W; and
b. The maximum output power spectral density shall not exceed 30 dBm/500 kHz.

When transmitting antennas with a directional gain exceeding 6 dBi, the maximum conducted output power, and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

TEST PROCEDURE

The measurement method used for output power is ANSI C63.10 Subclause -12.4.3.2 (Method PM-G).

The measurement method used for power spectral density is ANSI C63.10 Subclause -12.6.

DIRECTIONAL ANTENNA GAIN

For 1 TX:
There is only one transmitter output; therefore, the directional gain is equal to the antenna gain.

RESULTS

Plots included in the report are representative of the method and settings parameters used for the test.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

Band	No. of Tx	Mode	Channel	Freq (MHz)	Min 99% BW (MHz)	Min 26% BW (MHz)	Antenna Peak Gain (dBi)	Uncorrelated Directional Gain (dBi)	Correlated Directional Gain (dBi)	FCC Power Limit (dBm)	EIRP ISED Power Limit UNII-1: 23 or 10 + 10 $\log_{10}$B, dBm UNI-2A/-2C: 30 or 17 + 10 $\log_{10}$B, dBm (dBm)	Corrected ISED Power Limit (dBm)	FCC/ISED Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	EIRP ISED PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	FCC/ISED PSD Limit (dBm/1MHz)
UNII-1	1	11a	36	5180	16.798	23.440	3.20	3.20	3.20	24.00	22.25	19.05	19.05	11.00	10.00	6.80	6.80
			40	5200	16.804	23.680	3.20	3.20	3.20	24.00	22.25	19.05	19.05	11.00	10.00	6.80	6.80
			48	5240	16.776	23.640	3.20	3.20	3.20	24.00	22.25	19.05	19.05	11.00	10.00	6.80	6.80
		11n HT20	36	5180	17.796	26.440	3.20	3.20	3.20	24.00	22.50	19.30	19.30	11.00	10.00	6.80	6.80
			40	5200	17.909	26.440	3.20	3.20	3.20	24.00	22.53	19.33	19.33	11.00	10.00	6.80	6.80
			48	5240	17.808	26.240	3.20	3.20	3.20	24.00	22.51	19.31	19.31	11.00	10.00	6.80	6.80
		11n HT40	38	5190	36.169	44.320	3.20	3.20	3.20	24.00	23.00	19.80	19.80	11.00	10.00	6.80	6.80
			46	5230	36.223	44.240	3.20	3.20	3.20	24.00	23.00	19.80	19.80	11.00	10.00	6.80	6.80
		11ac VHT80	42	5210	75.731	84.160	3.20	3.20	3.20	24.00	23.00	19.80	19.80	11.00	10.00	6.80	6.80
UNII-2A	1	11a	52	5260	16.927	22.560	3.85	3.85	3.85	24.00	29.29	23.29	23.29	11.00		11.00	11.00
			56	5280	16.727	24.160	3.85	3.85	3.85	24.00	29.23	23.23	23.23	11.00		11.00	11.00
			60	5300	16.735	24.320	3.85	3.85	3.85	24.00	29.24	23.24	23.24	11.00		11.00	11.00
			64	5320	16.774	23.800	3.85	3.85	3.85	24.00	29.25	23.25	23.25	11.00		11.00	11.00
		11n HT20	52	5260	17.897	22.480	3.85	3.85	3.85	24.00	29.53	23.53	23.53	11.00		11.00	11.00
			56	5280	17.867	27.080	3.85	3.85	3.85	24.00	29.52	23.52	23.52	11.00		11.00	11.00
			60	5300	17.872	26.200	3.85	3.85	3.85	24.00	29.52	23.52	23.52	11.00		11.00	11.00
			64	5320	17.765	22.000	3.85	3.85	3.85	24.00	29.50	23.50	23.50	11.00		11.00	11.00
		11n HT40	54	5270	36.152	40.640	3.85	3.85	3.85	24.00	30.00	24.00	24.00	11.00		11.00	11.00
			62	5310	36.172	40.800	3.85	3.85	3.85	24.00	30.00	24.00	24.00	11.00		11.00	11.00
		11ac VHT80	58	5290	75.595	83.040	3.85	3.85	3.85	24.00	30.00	24.00	24.00	11.00		11.00	11.00
UNII-2C	1	11a	100	5500	16.707	22.040	3.85	3.85	3.85	24.00	29.23	23.23	23.23	11.00		11.00	11.00
			116	5580	16.785	24.120	3.85	3.85	3.85	24.00	29.25	23.25	23.25	11.00		11.00	11.00
			140	5700	16.669	22.040	3.85	3.85	3.85	24.00	29.22	23.22	23.22	11.00		11.00	11.00
		11n HT20	100	5500	17.782	22.200	3.85	3.85	3.85	24.00	29.50	23.50	23.50	11.00		11.00	11.00
			116	5580	17.831	28.360	3.85	3.85	3.85	24.00	29.51	23.51	23.51	11.00		11.00	11.00
			140	5700	17.820	27.480	3.85	3.85	3.85	24.00	29.51	23.51	23.51	11.00		11.00	11.00
		11n HT40	102	5510	36.177	40.640	3.85	3.85	3.85	24.00	30.00	24.00	24.00	11.00		11.00	11.00
			110	5550	36.197	44.240	3.85	3.85	3.85	24.00	30.00	24.00	24.00	11.00		11.00	11.00
			134	5670	36.160	44.800	3.85	3.85	3.85	24.00	30.00	24.00	24.00	11.00		11.00	11.00
		11ac VHT80	106	5530	75.612	83.040	3.85	3.85	3.85	24.00	30.00	24.00	24.00	11.00		11.00	11.00
			122	5610	75.643	83.680	3.85	3.85	3.85	24.00	30.00	24.00	24.00	11.00		11.00	11.00

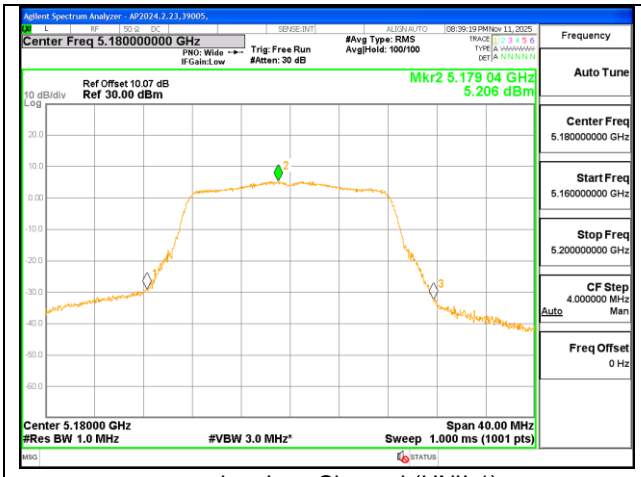
Band	No. of Tx	Mode	Channel	Freq (MHz)	Antenna Peak Gain (dBi)	Uncorrelated Directional Gain (dBi)	Correlated Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/500kH
UNII-3	1	11a	149	5745	3.60	3.60	3.60	30.00	30.00
			157	5785	3.60	3.60	3.60	30.00	30.00
			165	5825	3.60	3.60	3.60	30.00	30.00
		11n HT20	149	5745	3.60	3.60	3.60	30.00	30.00
			157	5785	3.60	3.60	3.60	30.00	30.00
			165	5825	3.60	3.60	3.60	30.00	30.00
		11n HT40	151	5755	3.60	3.60	3.60	30.00	30.00
			159	5795	3.60	3.60	3.60	30.00	30.00
		11ac VHT80	155	5775	3.60	3.60	3.60	30.00	30.00

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

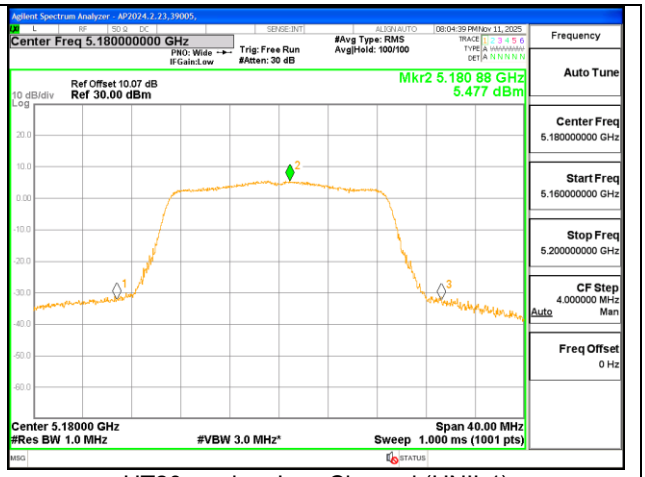
9.3.1. UNII-1 BAND

Band	Mode	Channel	Frequency (MHz)	Uncorrelated Directional Gain (dBi)	Correlated Directional Gain (dBi)	Measured Conducted Avg Power (dBm)	ISED Corrected Conducted Avg EIRP Power (dBm)	FCC/ISED Power Limit (dBm)	Power Margin (dB)	PSD (dBm/1MHz)	DCCF (dB)	Corrected PSD with DCCF (dBm/1MHz)	Corrected EIRP ISED PSD (dBm/1MHz)	FCC/ISED PSD Limit (dBm/1MHz)	PSD Margin (dB)
UNII-1	11a	36	5180	3.20	3.20	15.50	18.70	19.05	-3.55	5.206	0.10	5.30	8.50	6.80	-1.50
		40	5200	3.20	3.20	**16.39**	**19.59**	19.05	-2.66	6.099	0.10	6.19	9.39	6.80	-0.61
		48	5240	3.20	3.20	16.35	19.55	19.05	-2.70	5.672	0.10	5.77	8.97	6.80	-1.03
	11n HT20	36	5180	3.20	3.20	16.34	19.54	19.30	-2.96	5.477	0.10	5.58	8.78	6.80	-1.22
		40	5200	3.20	3.20	**16.82**	**20.02**	19.33	-2.51	6.131	0.10	6.24	9.44	6.80	-0.56
		48	5240	3.20	3.20	16.81	20.01	19.31	-2.50	5.721	0.10	5.83	9.03	6.80	-0.97
	11n HT40	38	5190	3.20	3.20	12.83	16.03	19.80	-6.97	-1.074	0.20	-0.87	2.33	6.80	-7.67
		46	5230	3.20	3.20	**17.68**	**20.88**	19.80	-2.12	3.496	0.20	3.70	6.90	6.80	-3.10
	11ac VHT80	42	5210	3.20	3.20	**10.00**	**13.20**	19.80	-9.80	-7.049	0.40	-6.65	-3.45	6.80	-13.45

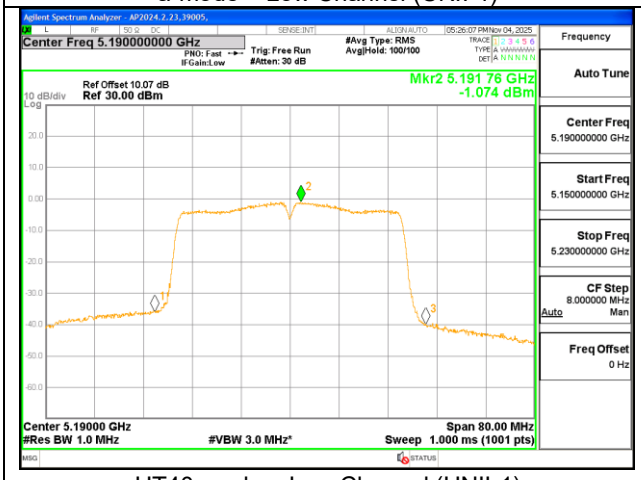
PSD Plots



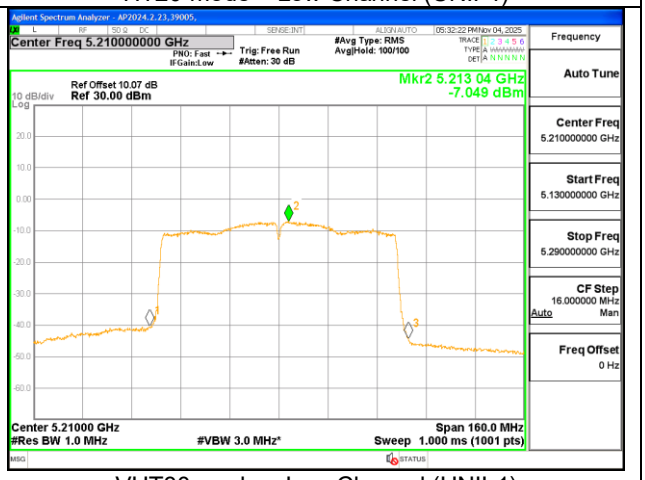
a-mode – Low Channel (UNII-1)



HT20-mode – Low Channel (UNII-1)



HT40-mode – Low Channel (UNII-1)

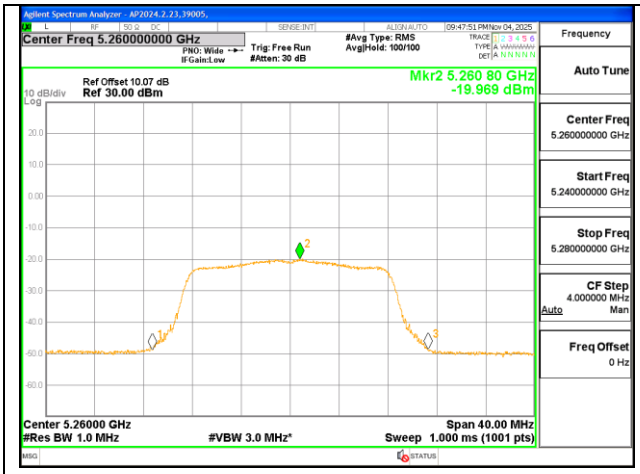


VHT80-mode – Low Channel (UNII-1)

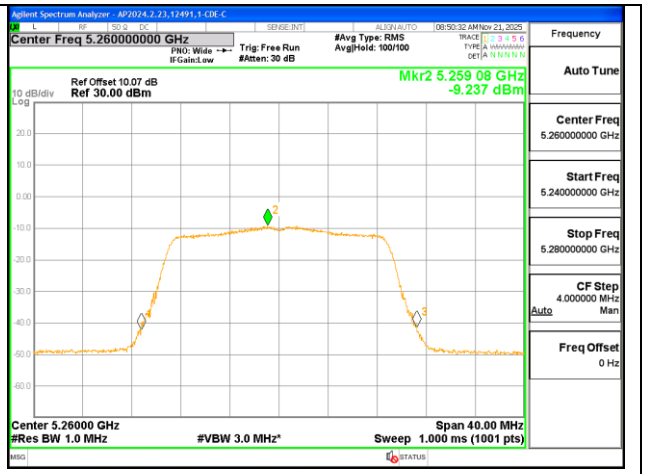
9.3.2. UNII-2A BAND

Band	Mode	Channel	Frequency (MHz)	Measured Conducted Avg Power (dBm)	Power Limit (dBm)	Power Margin (dB)	PSD (dBm/1MHz)	DCCF (dB)	Corrected PSD with DCCF (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
UNII-2A	11a	52	5260	-8.78	23.29	-32.07	-19.969	0.10	-19.87	11.00	-30.87
		56	5280	**18.95**	23.23	-4.28	8.345	0.10	8.44	11.00	-2.56
		60	5300	18.72	23.24	-4.52	8.392	0.10	8.49	11.00	-2.51
		64	5320	16.81	23.25	-6.44	5.559	0.10	5.65	11.00	-5.35
	11n HT20	52	5260	-0.76	23.53	-24.29	-9.237	0.10	-9.13	11.00	-20.13
		56	5280	**18.66**	23.52	-4.86	7.828	0.10	7.93	11.00	-3.07
		60	5300	18.28	23.52	-5.24	7.737	0.10	7.84	11.00	-3.16
		64	5320	13.60	23.50	-9.90	1.891	0.10	2.00	11.00	-9.00
	11n HT40	54	5270	6.61	24.00	-17.39	-4.851	0.20	-4.65	11.00	-15.65
		62	5310	**13.54**	24.00	-10.46	-1.593	0.20	-1.39	11.00	-12.39
	11ac VHT80	58	5290	**11.25**	24.00	-12.75	-5.986	0.40	-5.59	11.00	-16.59

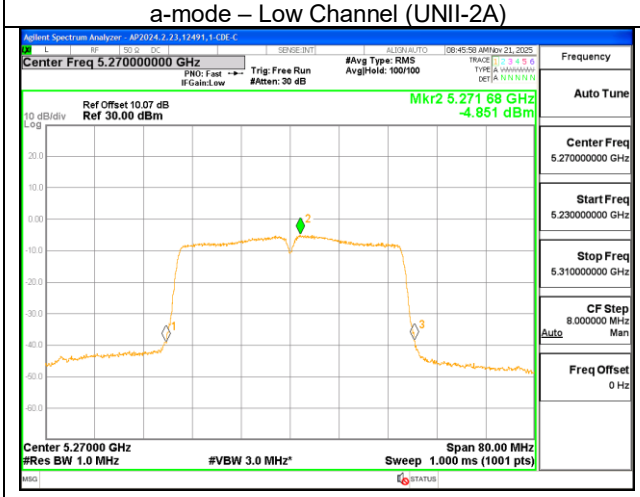
PSD Plots



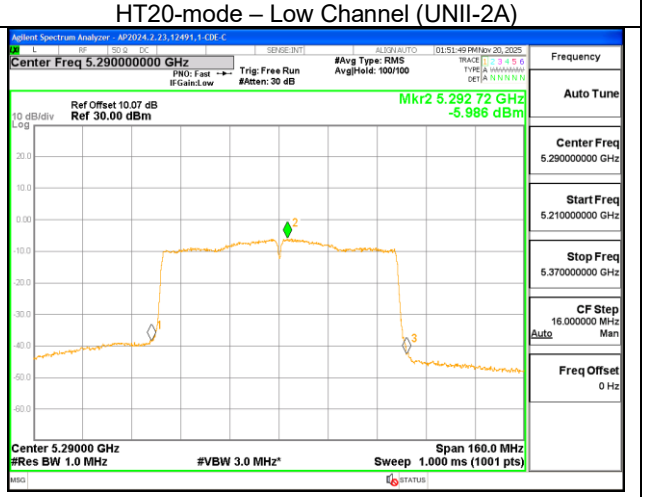
a-mode – Low Channel (UNII-2A)



HT20-mode – Low Channel (UNII-2A)



HT40-mode – Low Channel (UNII-2A)



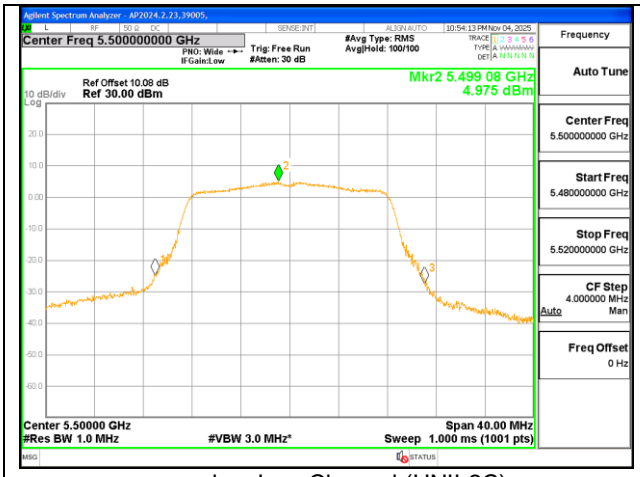
VHT80-mode – Low Channel (UNII-2A)

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

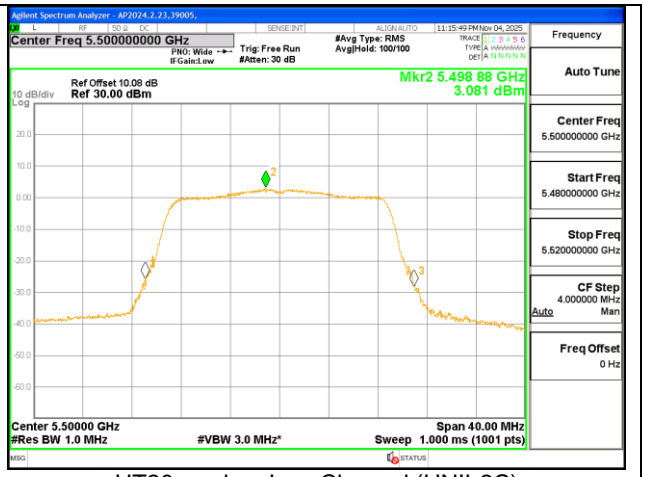
9.3.3. UNII-2C BAND

Band	Mode	Channel	Frequency (MHz)	Measured Conducted Avg Power (dBm)	Power Limit (dBm)	Power Margin (dB)	PSD (dBm/1MHz)	DCCF (dB)	Corrected PSD with DCCF (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
UNII-2C	11a	100	5500	16.51	23.23	-6.72	4.975	0.10	5.07	11.00	-5.93
		116	5580	**18.12**	23.25	-5.13	7.996	0.10	8.09	11.00	-2.91
		140	5700	15.24	23.22	-7.98	4.907	0.10	5.00	11.00	-6.00
	11n HT20	100	5500	15.35	23.50	-8.15	3.081	0.10	3.19	11.00	-7.81
		116	5580	**17.80**	23.51	-5.71	7.253	0.10	7.36	11.00	-3.64
		140	5700	16.75	23.51	-6.76	5.895	0.10	6.00	11.00	-5.00
	11n HT40	102	5510	13.29	24.00	-10.71	-2.635	0.20	-2.43	11.00	-13.43
		110	5550	**17.02**	24.00	-6.98	2.259	0.20	2.46	11.00	-8.54
		134	5670	16.85	24.00	-7.15	3.081	0.20	3.28	11.00	-7.72
	11ac VHT80	106	5530	15.75	24.00	-8.25	-3.024	0.40	-2.62	11.00	-13.62
		122	5610	**16.46**	24.00	-7.54	-0.372	0.40	0.03	11.00	-10.97

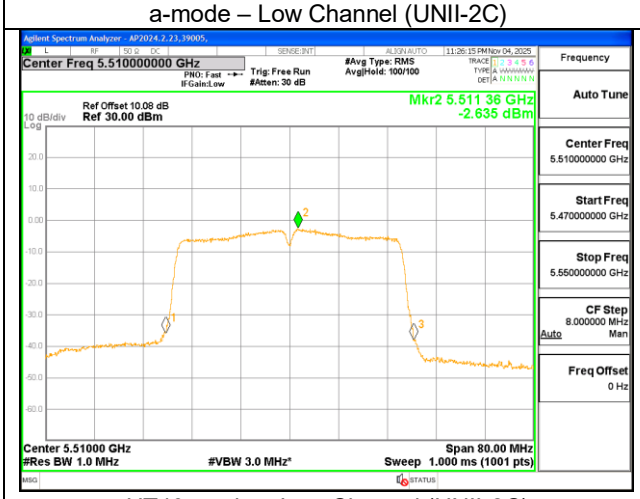
PSD Plots



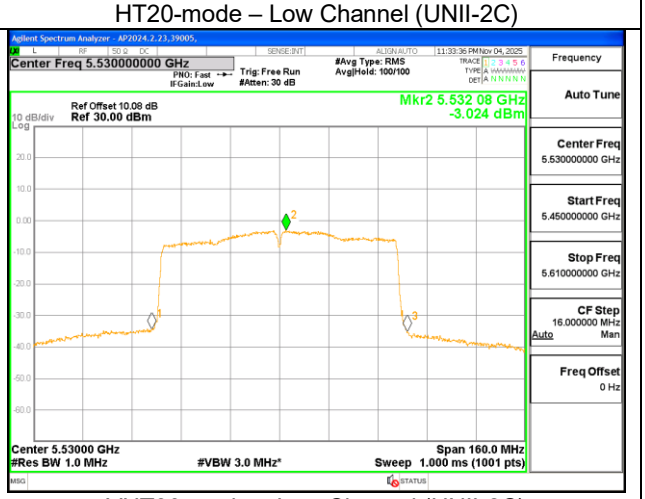
a-mode – Low Channel (UNII-2C)



HT20-mode – Low Channel (UNII-2C)



HT40-mode – Low Channel (UNII-2C)

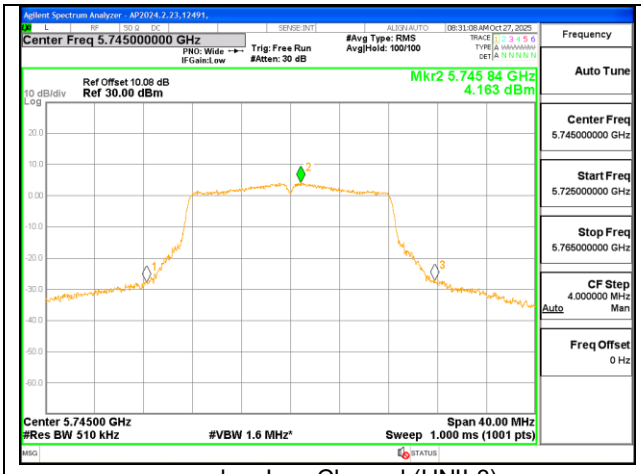


VHT80-mode – Low Channel (UNII-2C)

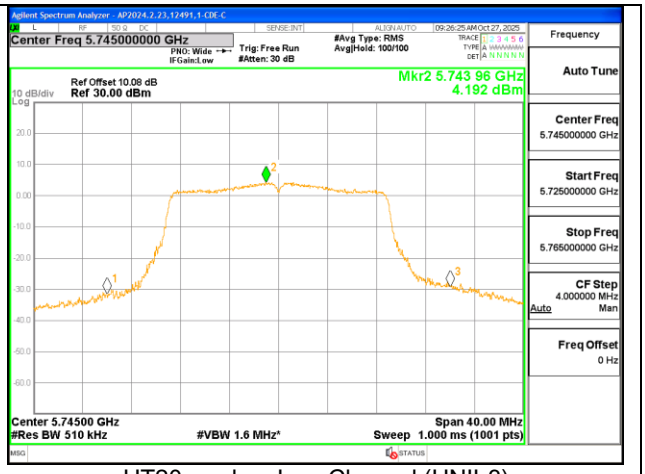
9.3.4. UNII-3 BAND

Band	Mode	Channel	Frequency (MHz)	Measured Conducted Avg Power (dBm)	Power Limit (dBm)	Power Margin (dB)	PSD (dBm/500kHz)	DCCF (dB)	Corrected PSD with DCCF (dBm/500kHz)	PSD Limit (dBm/500kHz)	PSD Margin (dB)
UNII-3	11a	149	5745	**17.93**	30.00	-12.07	4.163	0.096	4.26	30.00	-25.74
		157	5785	17.82	30.00	-12.18	4.467	0.096	4.56	30.00	-25.44
		165	5825	17.46	30.00	-12.54	4.666	0.096	4.76	30.00	-25.24
	11n HT20	149	5745	**17.46**	30.00	-12.54	4.192	0.104	4.30	30.00	-25.70
		157	5785	17.35	30.00	-12.65	4.294	0.104	4.40	30.00	-25.60
		165	5825	17.45	30.00	-12.55	4.044	0.104	4.15	30.00	-25.85
	11n HT40	151	5755	**16.65**	30.00	-13.35	0.315	0.203	0.52	30.00	-29.48
		159	5795	16.41	30.00	-13.59	-0.013	0.203	0.19	30.00	-29.81
	11ac VHT80	155	5775	**16.00**	30.00	-14.00	-3.363	0.399	-2.96	30.00	-32.96

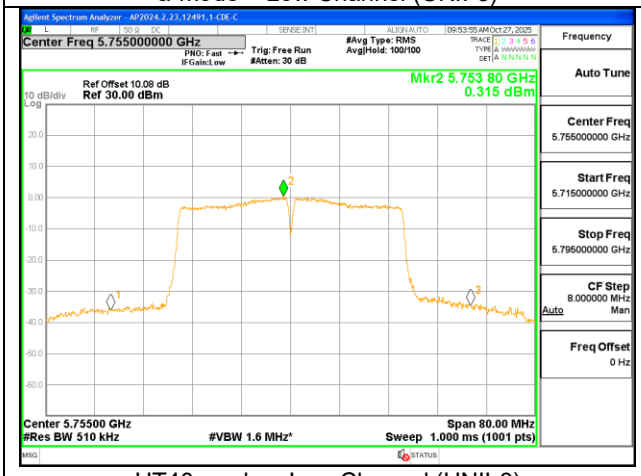
PSD Plots



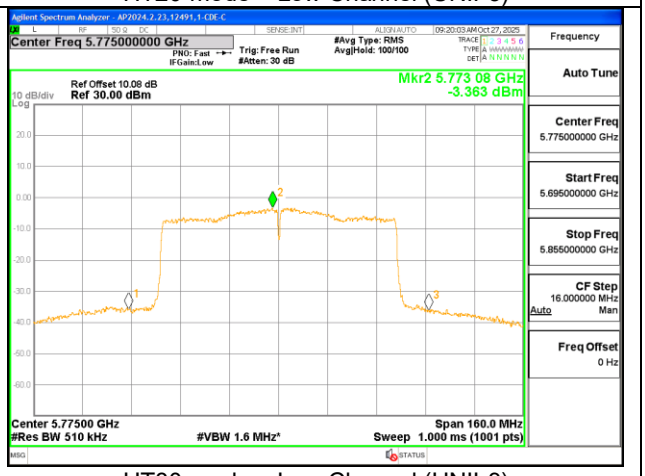
a-mode – Low Channel (UNII-3)



HT20-mode – Low Channel (UNII-3)



HT40-mode – Low Channel (UNII-3)



HT80-mode – Low Channel (UNII-3)

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

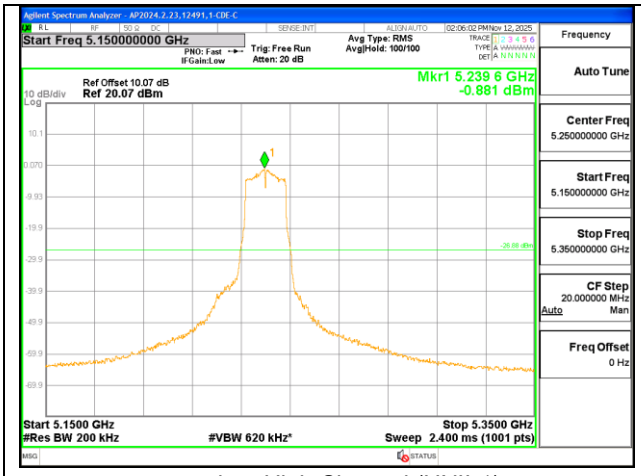
9.4. 5.250-5.350 GHz (CONDUCTED UNWANTED EMISSIONS)

LIMITS

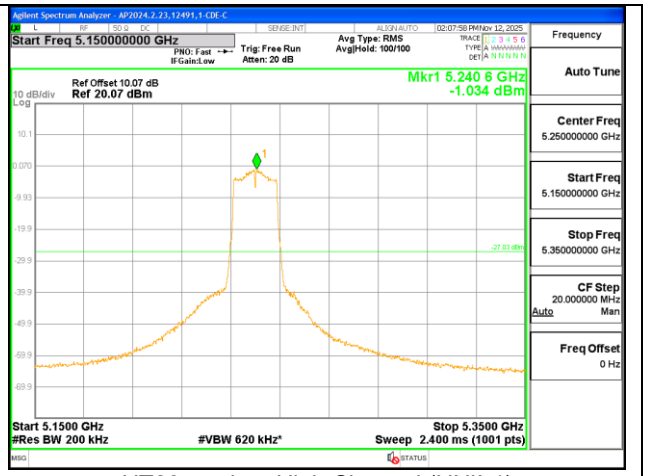
RSS-247 7.3.1.3

(b)any unwanted emissions that fall between the upper edge of the 26 dB bandwidth and 5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth.

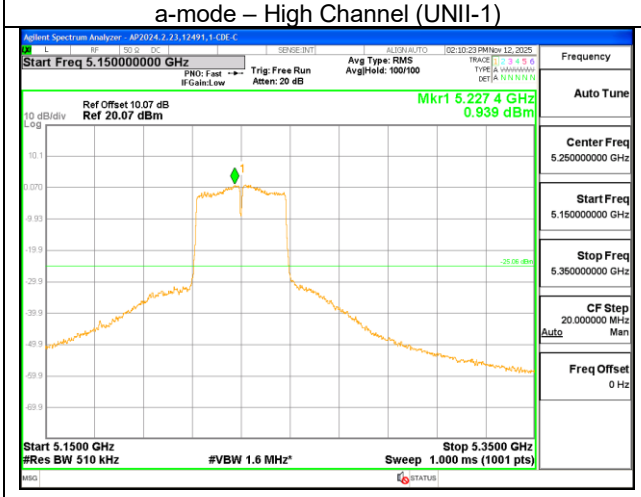
RESULTS



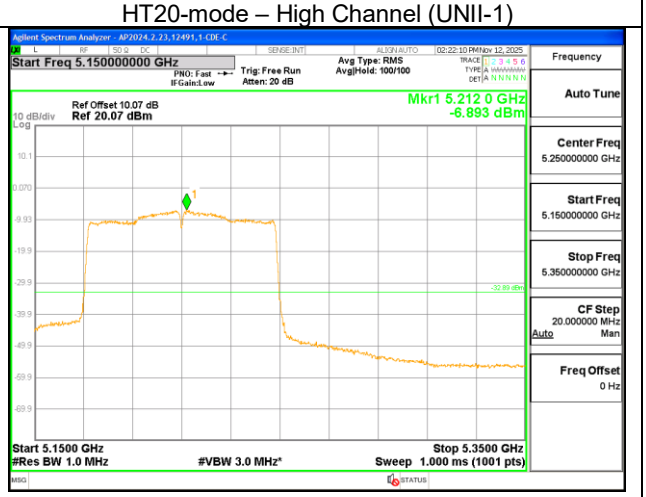
a-mode – High Channel (UNII-1)



HT20-mode – High Channel (UNII-1)



HT40-mode – High Channel (UNII-1)



VHT80-mode – Mid Channel (UNII-1)

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands
FCC §15.407(b) (1-3) -Un-Restricted bands

RSS-GEN, Sections 8.9 and 8.10

RSS 247 Issue 4 Sections
7.3.1.3 (for 5150-5250 MHz band)
7.3.2.3 (for 5250-5350 MHz band)
7.3.3.3 (for 5470-5725 MHz band)
7.3.4.4 (for 5725-5850 MHz band)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz and 1.5 meters above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range, and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

For final measurements above 1 GHz, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with the highest output power as a worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, an investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel). Parallel and perpendicular are the worst orientations; therefore,

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation. Green color trace on plots: Perpendicular orientation.
Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.
In addition:

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

Based on FCC 15.31 (f) (2), measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed, and the chamber-measured test result is the worst-case test result.

RESULTS

The plots in these sections are for reference settings only for different bandwidths and different antennas.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. SISO MODE IN UNII-1 BAND – BANDEDGE

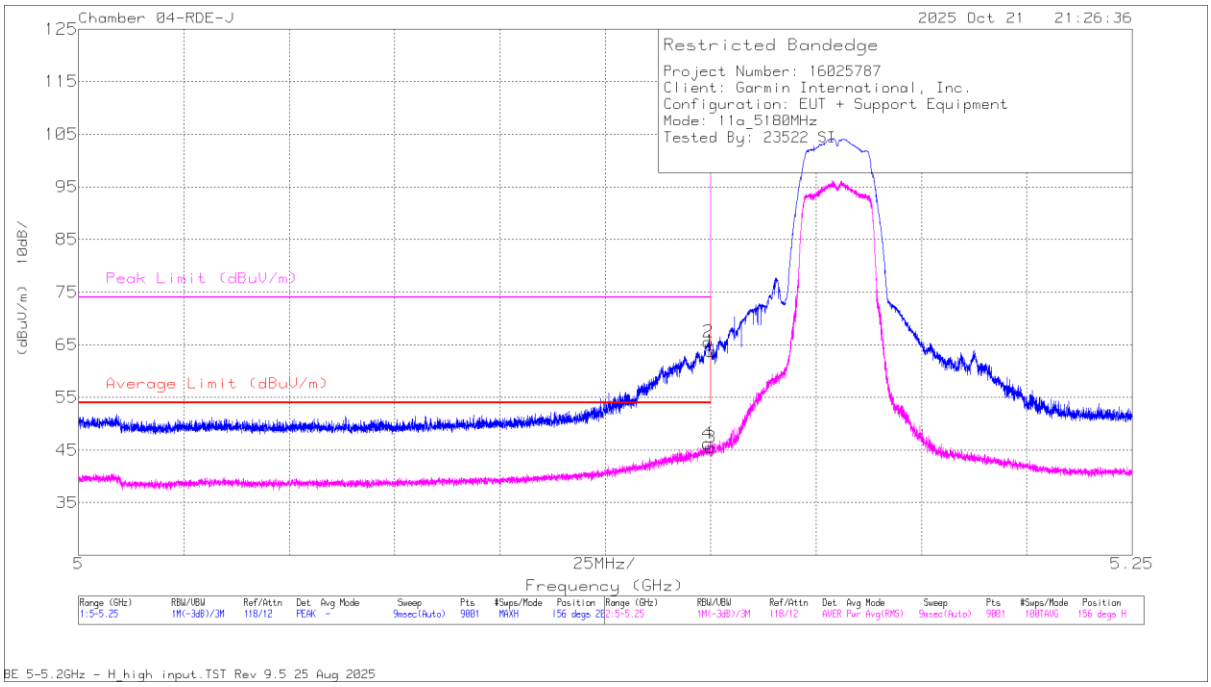
UNII-1 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
a	5180	* 5.15	53.73	Pk	34.5	-24.5	0	63.73	-	-	74	-10.27	156	202	H
		* 5.149446	55.43	Pk	34.5	-24.4	0	65.53	-	-	74	-8.47	156	202	H
		* 5.15	35.39	RMS	34.5	-24.5	0.1	45.49	54	-8.51	-	-	156	202	H
		* 5.149307	36.03	RMS	34.5	-24.4	0.1	46.23	54	-7.77	-	-	156	202	H
		* 5.15	55.56	Pk	34.5	-24.5	0	65.56	-	-	74	-8.44	170	248	V
		* 5.14814	57.89	Pk	34.5	-24.4	0	67.99	-	-	74	-6.01	170	248	V
		* 5.15	37.96	RMS	34.5	-24.5	0.1	48.06	54	-5.94	-	-	170	248	V
		* 5.148223	38.54	RMS	34.5	-24.4	0.1	48.74	54	-5.26	-	-	170	248	V
HT20	5180	* 5.15	57.24	Pk	34.5	-24.5	0	67.24	-	-	74	-6.76	190	107	H
		* 5.144362	58.64	Pk	34.4	-24.3	0	68.74	-	-	74	-5.26	190	107	H
		* 5.15	40.41	RMS	34.5	-24.5	0.1	50.51	54	-3.49	-	-	190	107	H
		* 5.149779	41.23	RMS	34.5	-24.5	0.1	51.33	54	-2.67	-	-	190	107	H
		* 5.15	55.8	Pk	34.5	-24.5	0	65.8	-	-	74	-8.2	168	151	V
		* 5.149807	58.83	Pk	34.5	-24.5	0	68.83	-	-	74	-5.17	168	151	V
		* 5.15	41.75	RMS	34.5	-24.5	0.1	51.85	54	-2.15	-	-	168	151	V
		* 5.148835	41.56	RMS	34.5	-24.4	0.1	51.76	54	-2.24	-	-	168	151	V
HT40	5190	* 5.15	56.21	Pk	34.5	-24.5	0	66.21	-	-	74	-7.79	97	124	H
		* 5.147918	58.16	Pk	34.5	-24.4	0	68.26	-	-	74	-5.74	97	124	H
		* 5.15	41.27	RMS	34.5	-24.5	0.2	51.47	54	-2.53	-	-	97	124	H
		* 5.148251	42.1	RMS	34.5	-24.4	0.2	52.4	54	-1.6	-	-	97	124	H
		* 5.15	54.26	Pk	34.5	-24.5	0	64.26	-	-	74	-9.74	188	137	V
		* 5.147835	58.22	Pk	34.5	-24.4	0	68.32	-	-	74	-5.68	188	137	V
		* 5.15	42.16	RMS	34.5	-24.5	0.2	52.36	54	-1.64	-	-	188	137	V
		* 5.149418	42.17	RMS	34.5	-24.4	0.2	52.47	54	-1.53	-	-	188	137	V
VHT80	5210	* 5.15	52.81	Pk	34.5	-24.5	0	62.81	-	-	74	-11.19	207	104	H
		* 5.149029	54.86	Pk	34.5	-24.4	0	64.96	-	-	74	-9.04	207	104	H
		* 5.15	40	RMS	34.5	-24.5	0.4	50.4	54	-3.6	-	-	207	104	H
		* 5.14914	41.3	RMS	34.5	-24.4	0.4	51.8	54	-2.2	-	-	207	104	H
		* 5.15	53.29	Pk	34.5	-24.5	0	63.29	-	-	74	-10.71	164	121	V
		* 5.149001	54.68	Pk	34.5	-24.4	0	64.78	-	-	74	-9.22	164	121	V
		* 5.15	40.8	RMS	34.5	-24.5	0.4	51.2	54	-2.8	-	-	164	121	V
		* 5.148251	41.52	RMS	34.5	-24.4	0.4	52.02	54	-1.98	-	-	164	121	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

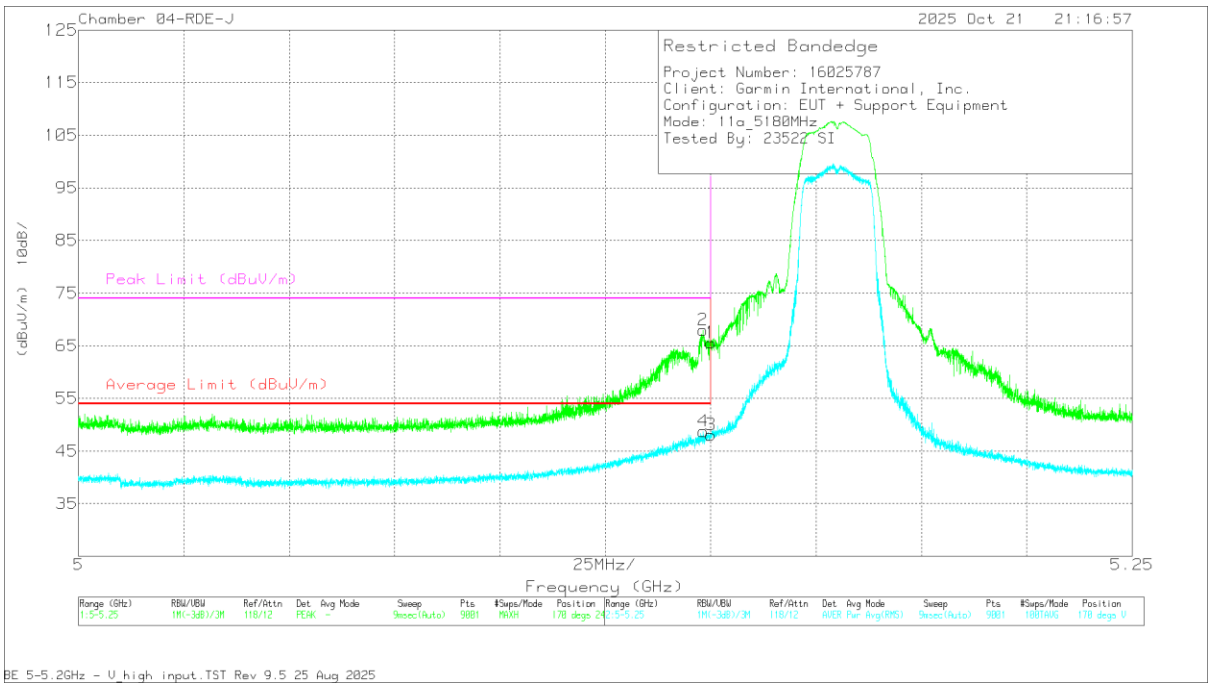
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

BANDEDGE (LOW CHANNEL / 5180MHz), a mode

HORIZONTAL RESULT



VERTICAL RESULT



UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.1.2. SISO MODE IN UNII-1 BAND – SPURIOUS EMISSIONS

a mode

UNII-1 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11a	5180	* 15.541761	43.25	ADR	41	-40.2	0.1	44.15	54	-9.85	-	-	252	119	V
		* 15.542518	45.31	ADR	41	-40.2	0.1	46.21	54	-7.79	-	-	39	243	H
		* 15.543055	58.61	PK-U	41	-40.2	0	59.41	-	-	74	-14.59	39	243	H
		* 15.543059	55.96	PK-U	41	-40.2	0	56.76	-	-	74	-17.24	252	119	V
		* 2.656041	65.46	PK-U	32.8	-46.8	0	51.46	-	-	74	-22.54	125	272	V
		* 2.66384	45.72	ADR	32.8	-46.8	0.1	31.82	54	-22.18	-	-	125	272	V
		* 2.678255	57.59	PK-U	32.8	-46.6	0	43.79	-	-	74	-30.21	124	142	H
		* 2.865884	45.68	ADR	32.9	-46.6	0.1	32.08	54	-21.92	-	-	124	142	H
		10.358923	62.2	PK-U	37.7	-41.4	0	58.5	-	-	68.2	-9.7	280	198	H
		10.359061	59.48	PK-U	37.7	-41.4	0	55.78	-	-	68.2	-12.42	267	208	V
	5200	* 15.603296	58.04	PK-U	41	-40.3	0	58.74	-	-	74	-15.26	27	210	H
		* 15.603324	45.1	ADR	41	-40.3	0.1	45.9	54	-8.1	-	-	27	210	H
		* 15.603248	56.02	PK-U	41	-40.3	0	56.72	-	-	74	-17.28	13	378	V
		* 15.603654	43.22	ADR	41	-40.4	0.1	43.92	54	-10.08	-	-	13	378	V
		1.743176	58.08	PK-U	29.4	-46.8	0	40.68	-	-	68.2	-27.52	88	119	V
		2.453979	57.79	PK-U	32.3	-46.4	0	43.69	-	-	68.2	-24.51	322	203	H
		10.399117	57.43	PK-U	37.7	-41.4	0	53.73	-	-	68.2	-14.47	9	141	H
		10.402609	57.04	PK-U	37.6	-41.5	0	53.14	-	-	68.2	-15.06	356	258	V
	5240	* 4.798781	71.5	PK-U	34.3	-44.8	0	61	-	-	74	-13	42	260	V
		* 4.799154	57.98	ADR	34.3	-44.8	0.1	47.58	54	-6.42	-	-	42	260	V
		* 15.72137	57.5	PK-U	41.1	-41	0	57.6	-	-	74	-16.4	26	223	H
		* 15.724375	44.61	ADR	41.1	-41.1	0.1	44.71	54	-9.29	-	-	26	223	H
		2.597271	62.44	PK-U	32.7	-46.6	0	48.54	-	-	68.2	-19.66	105	395	H
		10.478092	56.33	PK-U	37.6	-41.1	0	52.83	-	-	68.2	-15.37	4	223	V
		10.479032	56.74	PK-U	37.6	-41.2	0	53.14	-	-	68.2	-15.06	13	134	H
		14.994463	52.65	PK-U	40.3	-40.8	0	52.15	-	-	68.2	-16.05	215	316	V

HT20

UNII-1 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11n	5180	* 4.799339	69.07	PK-U	34.3	-44.8	0	58.57	-	-	74	-15.43	102	250	H
		* 4.799239	55.63	ADR	34.3	-44.8	0.1	45.23	54	-8.77	-	-	102	250	H
		* 2.388381	57.3	PK-U	32.2	-46.9	0	42.6	-	-	74	-31.4	125	317	V
		* 4.798854	71.48	PK-U	34.3	-44.8	0	60.98	-	-	74	-13.02	41	227	V
		* 4.799241	59.86	ADR	34.3	-44.8	0.1	49.46	54	-4.54	-	-	41	227	V
		2.422961	45.52	ADR	32.3	-46.7	0.1	31.22	-	-	-	-	125	317	V
		3.423143	55.15	PK-U	34.8	-44.5	0	45.45	-	-	68.2	-22.75	173	264	H
		10.36177	59.26	PK-U	37.7	-41.4	0	55.56	-	-	68.2	-12.64	14	119	H
		10.361947	58.01	PK-U	37.7	-41.4	0	54.31	-	-	68.2	-13.89	355	219	V
	5200	* 15.91771	53.41	PK-U	41	-39.2	0	55.21	-	-	74	-18.79	76	120	V
		* 15.925412	41.31	ADR	41	-39.7	0.1	42.71	54	-11.29	-	-	76	120	V
		* 4.798846	52.28	ADR	34.3	-44.8	0.1	41.88	54	-12.12	-	-	57	104	H
		* 4.799233	70.11	PK-U	34.3	-44.8	0	59.61	-	-	74	-14.39	57	104	H
		10.399304	56.92	PK-U	37.7	-41.4	0	53.22	-	-	68.2	-14.98	326	102	H
		10.400821	56.59	PK-U	37.6	-41.4	0	52.79	-	-	68.2	-15.41	292	112	V
		16.554694	52.32	PK-U	41.8	-38.7	0	55.42	-	-	68.2	-12.78	300	184	H
		2.417679	59.97	PK-U	32.3	-46.8	0	45.47	-	-	68.2	-22.73	176	235	V
	5240	* 15.898981	41.27	ADR	41	-38.8	0.1	43.57	54	-10.43	-	-	331	358	V
		* 15.902435	53.35	PK-U	41	-38.8	0	55.55	-	-	74	-18.45	331	358	V
		* 4.798641	67.7	PK-U	34.3	-44.8	0	57.2	-	-	74	-16.8	33	212	V
		* 4.798981	54.24	ADR	34.3	-44.8	0.1	43.84	54	-10.16	-	-	33	212	V
		* 4.79906	59.57	ADR	34.3	-44.8	0.1	49.17	54	-4.83	-	-	30	220	H
		* 4.799193	71.82	PK-U	34.3	-44.8	0	61.32	-	-	74	-12.68	30	220	H
		10.472773	54.59	PK-U	37.6	-41.2	0	50.99	-	-	68.2	-17.21	324	103	H
		10.481387	55.53	PK-U	37.6	-41.1	0	52.03	-	-	68.2	-16.17	292	113	V
		8.000046	62.58	PK-U	36	-41.2	0	57.38	-	-	68.2	-10.82	13	202	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

HT40

UNII-1 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11n	5190	* 4.799777	71.92	PK-U	34.3	-44.8	0	61.42	-	-	74	-12.58	24	207	H
		* 4.798857	58.04	ADR	34.3	-44.8	0.2	47.74	54	-6.26	-	-	24	207	H
		* 15.889403	52.75	PK-U	41	-39	0	54.75	-	-	74	-19.25	137	285	H
		* 15.915021	41.24	ADR	41	-39.1	0.2	43.34	54	-10.66	-	-	137	285	H
		* 11.97662	52.3	PK-U	39.7	-40.3	0	51.7	-	-	74	-22.3	149	258	V
		* 11.96818	40.23	ADR	39.7	-40.2	0.2	39.93	54	-14.07	-	-	149	258	V
		2.13398	46.52	ADR	31.8	-46.9	0.2	31.62	-	-	-	-	134	125	V
		2.1367	57.99	PK-U	31.8	-46.9	0	42.89	-	-	68.2	-25.31	134	125	V
		2.420886	45.48	ADR	32.3	-46.7	0.2	31.28	-	-	-	-	126	138	H
		2.437893	58.45	PK-U	32.3	-46.5	0	44.25	-	-	68.2	-23.95	126	138	H
		16.561562	52.1	PK-U	41.9	-38.4	0	55.6	-	-	68.2	-12.6	27	133	V
		16.57478	40.38	ADR	41.9	-38.3	0.2	44.18	-	-	-	-	27	133	V
	5230	* 4.798657	65.14	PK-U	34.3	-44.8	0	54.64	-	-	74	-19.36	2	180	H
		* 4.79899	51.53	ADR	34.3	-44.8	0.2	41.23	54	-12.77	-	-	2	180	H
		* 2.696163	56.87	PK-U	32.8	-46.5	0	43.17	-	-	74	-30.83	241	295	V
		* 2.70283	45.06	ADR	32.8	-46.4	0.2	31.66	54	-22.34	-	-	241	295	V
		* 4.799144	71.08	PK-U	34.3	-44.8	0	60.58	-	-	74	-13.42	47	223	V
		* 4.799011	57.83	ADR	34.3	-44.8	0.2	47.53	54	-6.47	-	-	47	223	V
		* 11.896454	52.2	PK-U	39.6	-40.1	0	51.7	-	-	74	-22.3	85	290	H
		* 11.915067	40.38	ADR	39.6	-40.2	0.2	39.98	54	-14.02	-	-	85	290	H
		2.416046	60.25	PK-U	32.2	-46.8	0	45.65	-	-	68.2	-22.55	310	202	H
		2.435253	45.16	ADR	32.3	-46.6	0.2	31.06	-	-	-	-	310	202	H
		16.58173	52	PK-U	41.9	-38.5	0	55.4	-	-	68.2	-12.8	8	271	V
		16.582201	40.12	ADR	41.9	-38.5	0.2	43.72	-	-	-	-	8	271	V

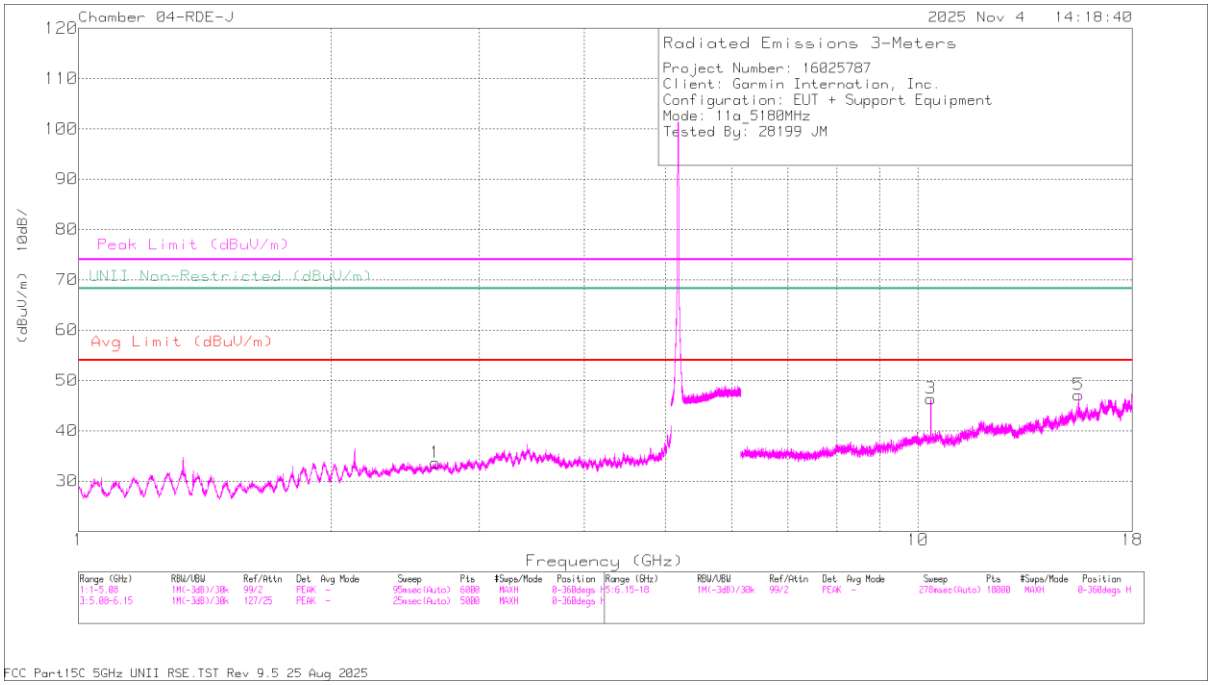
VHT80

UNII-1 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11ac	5210	* 4.798754	68.65	PK-U	34.3	-44.8	0	58.15	-	-	74	-15.85	112	183	H
		* 4.799347	54.76	ADR	34.3	-44.8	0.4	44.66	54	-9.34	-	-	112	183	H
		* 4.798849	71.28	PK-U	34.3	-44.8	0	60.78	-	-	74	-13.22	55	189	V
		* 4.799336	59.18	ADR	34.3	-44.8	0.4	49.08	54	-4.92	-	-	55	189	V
		* 12.444082	52.07	PK-U	39.2	-40.7	0	50.57	-	-	74	-23.43	357	157	H
		* 12.470429	40.1	ADR	39.2	-40.7	0.4	39	54	-15	-	-	357	157	H
		2.405694	60.72	PK-U	32.2	-46.8	0	46.12	-	-	68.2	-22.08	297	373	H
		2.418308	45.48	ADR	32.3	-46.8	0.4	31.38	-	-	-	-	297	373	H
		3.43346	43.78	ADR	34.8	-44.4	0.4	34.58	-	-	-	-	164	330	V
		3.43574	56.15	PK-U	34.8	-44.4	0	46.55	-	-	68.2	-21.65	164	330	V
		9.543216	40.14	ADR	36.9	-41.3	0.4	36.14	-	-	-	-	297	117	V
		9.544785	52.15	PK-U	36.9	-41.4	0	47.65	-	-	68.2	-20.55	297	117	V

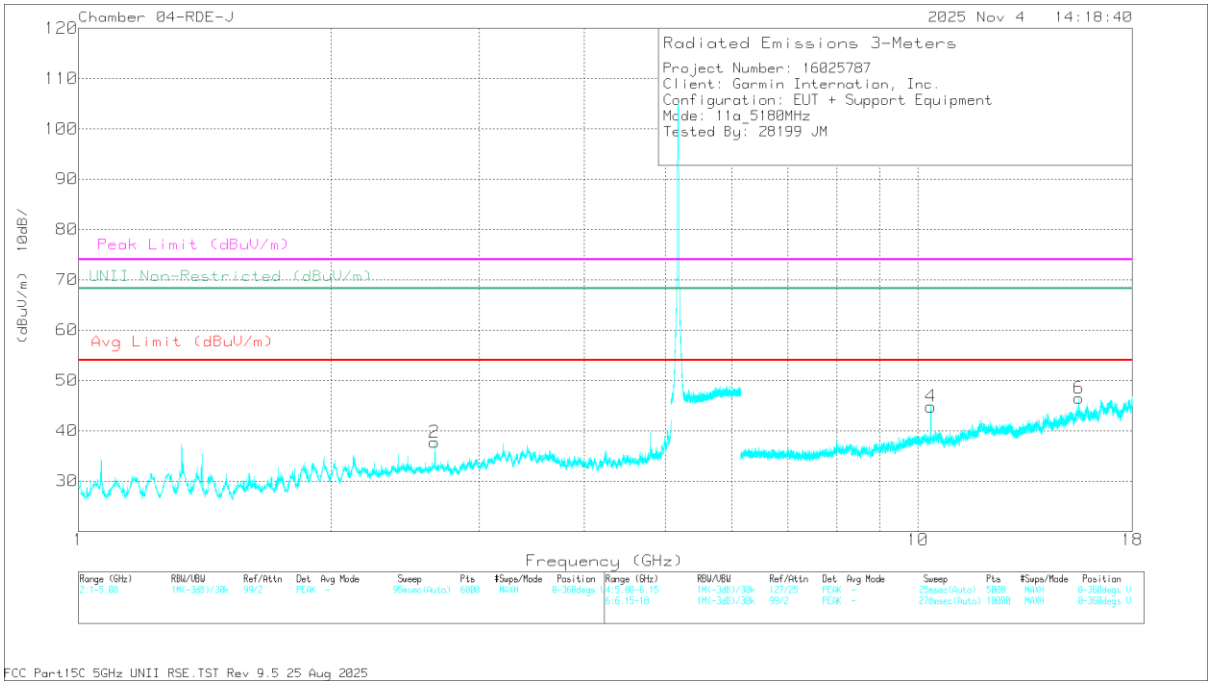
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL / 5180MHz), a mode

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

10.1.3. SISO MODE IN UNII-2A BAND – BANDEDGE

UNII-2a (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
a	5260	*, **5.25	58.38	Pk	34.5	-35.2	0	57.68	-	-	68.2	-10.52	330	102	H
		*, **5.25	65	Pk	34.5	-35.2	0	64.3	-	-	68.2	-3.9	294	159	V
	5320	5.35	51.26	Pk	34.5	-23.6	0	62.16	-	-	74	-11.84	294	129	H
		5.353062	53.61	Pk	34.5	-23.7	0	64.41	-	-	74	-9.59	294	129	H
		5.35	36.09	RMS	34.5	-23.6	0.1	47.09	54	-6.91	-	-	294	129	H
		5.350029	37.1	RMS	34.5	-23.6	0.1	48.1	54	-5.9	-	-	294	129	H
		* 5.35	57.69	Pk	34.5	-23.6	0	68.59	-	-	74	-5.41	113	137	V
		* 5.353295	58.57	Pk	34.5	-23.7	0	69.37	-	-	74	-4.63	113	137	V
		* 5.35	40.09	RMS	34.5	-23.6	0.1	51.09	54	-2.91	-	-	113	137	V
		* 5.351359	41.14	RMS	34.5	-23.7	0.1	52.04	54	-1.96	-	-	113	137	V
HT20	5260	*, **5.25	57.43	Pk	34.5	-35.2	0	56.73	-	-	68.2	-11.47	98	350	H
		*, **5.25	60.12	Pk	34.5	-35.2	0	59.42	-	-	68.2	-8.78	43	247	V
	5320	* 5.35	42.92	Pk	34.5	-23.6	0	53.82	-	-	74	-20.18	313	271	H
		* 5.351522	46.81	Pk	34.5	-23.7	0	57.61	-	-	74	-16.39	313	271	H
		* 5.35	31.31	RMS	34.5	-23.6	0.1	42.31	54	-11.69	-	-	313	271	H
		* 5.350845	32.11	RMS	34.5	-23.7	0.1	43.01	54	-10.99	-	-	313	271	H
		* 5.35	53.29	Pk	34.5	-23.6	0	64.19	-	-	74	-9.81	113	223	V
		* 5.350612	57.26	Pk	34.5	-23.7	0	68.06	-	-	74	-5.94	113	223	V
		* 5.35	39.42	RMS	34.5	-23.6	0.1	50.42	54	-3.58	-	-	113	223	V
		* 5.350869	40.1	RMS	34.5	-23.7	0.1	51	54	-3	-	-	113	223	V
HT40	5270	*, **5.25	61.09	Pk	34.5	-35.2	0	60.39	-	-	68.2	-7.81	94	261	H
		*, **5.25	66.34	Pk	34.5	-35.2	0	65.64	-	-	68.2	-2.56	32	272	V
	5310	* 5.35	62.29	Pk	34.6	-30.5	0	66.39	-	-	74	-7.61	144	268	H
		* 5.35005	65.17	Pk	34.6	-30.5	0	69.27	-	-	74	-4.73	144	268	H
		* 5.35	45.67	RMS	34.6	-30.5	0.2	49.97	54	-4.03	-	-	144	268	H
		* 5.350024	46.03	RMS	34.6	-30.5	0.2	50.33	54	-3.67	-	-	144	268	H
		* 5.35	60.13	Pk	34.6	-30.5	0	64.23	-	-	74	-9.77	109	249	V
		* 5.351835	64.71	Pk	34.6	-30.5	0	68.81	-	-	74	-5.19	109	249	V
		* 5.35	45.54	RMS	34.6	-30.5	0.2	49.84	54	-4.16	-	-	109	249	V
		* 5.350024	46.14	RMS	34.6	-30.5	0.2	50.44	54	-3.56	-	-	109	249	V
VHT80	5290	* 5.35	60.06	Pk	34.5	-35	0	59.56	-	-	74	-14.44	89	393	H
		* 5.357401	62.14	Pk	34.5	-35	0	61.64	-	-	74	-12.36	89	393	H
		* 5.35	46.65	RMS	34.5	-35	0.4	46.55	54	-7.45	-	-	89	393	H
		* 5.350391	47.45	RMS	34.5	-35	0.4	47.35	54	-6.65	-	-	89	393	H
		* 5.35	63.26	Pk	34.5	-35	0	62.76	-	-	74	-11.24	24	310	V
		* 5.354251	66.39	Pk	34.5	-35	0	65.89	-	-	74	-8.11	24	310	V
		* 5.35	50.97	RMS	34.5	-35	0.4	50.87	54	-3.13	-	-	24	310	V
		* 5.35047	51.31	RMS	34.5	-35	0.4	51.21	54	-2.79	-	-	24	310	V

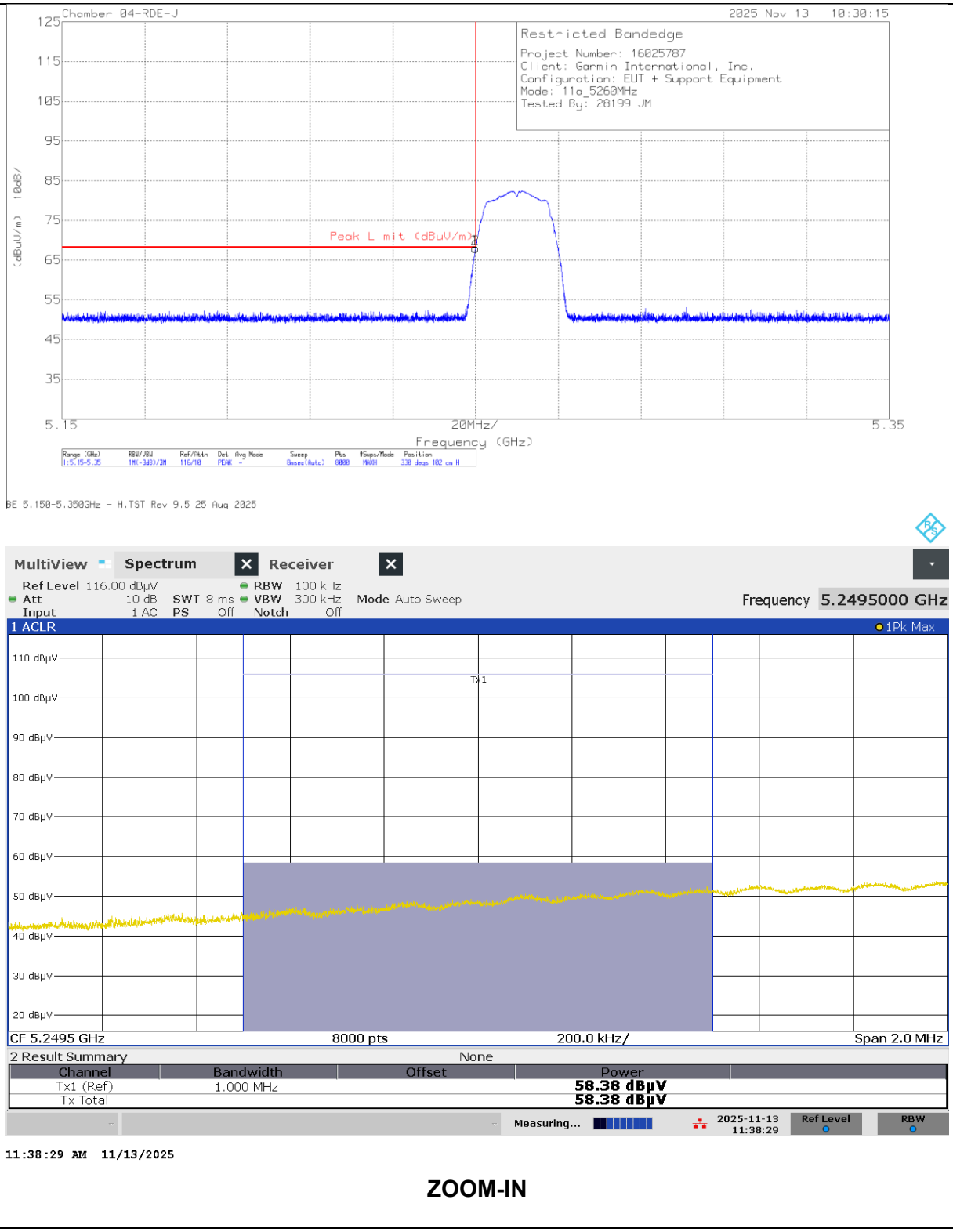
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - Zoom-in 1MHz integration method (Worst-case)

Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

BANDEDGE (LOW CHANNEL / 5260MHz), a mode

HORIZONTAL RESULT

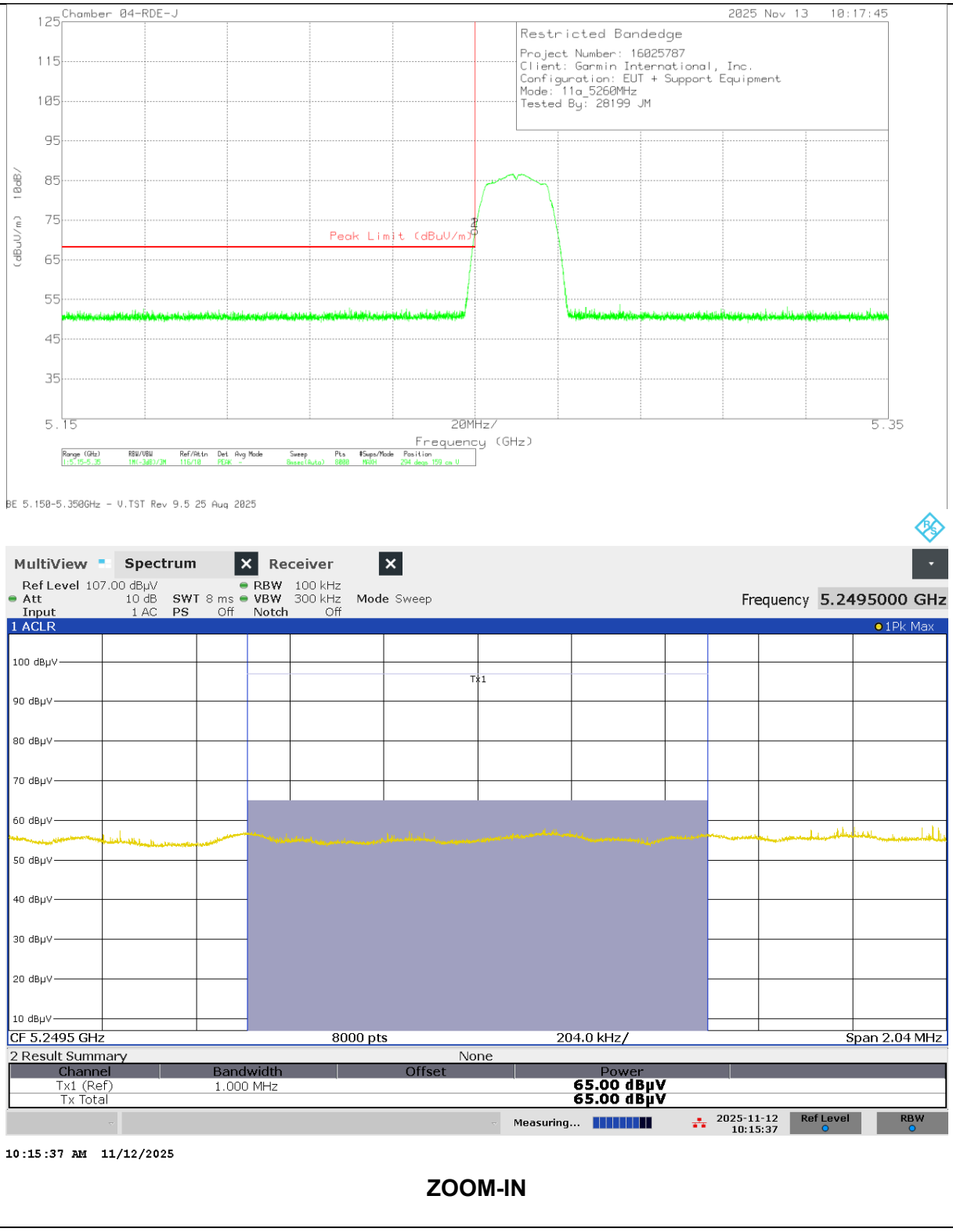


ZOOM-IN

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

BANDEDGE (LOW CHANNEL / 5260MHz), a mode

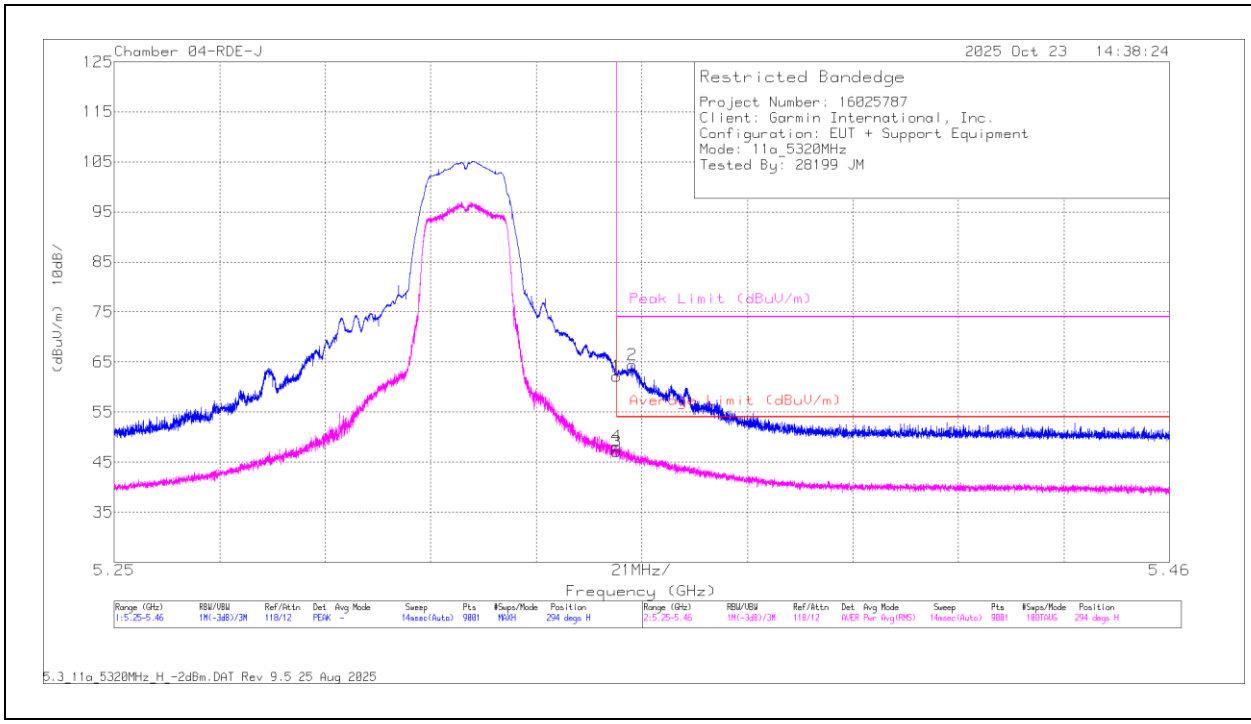
VERTICAL RESULT



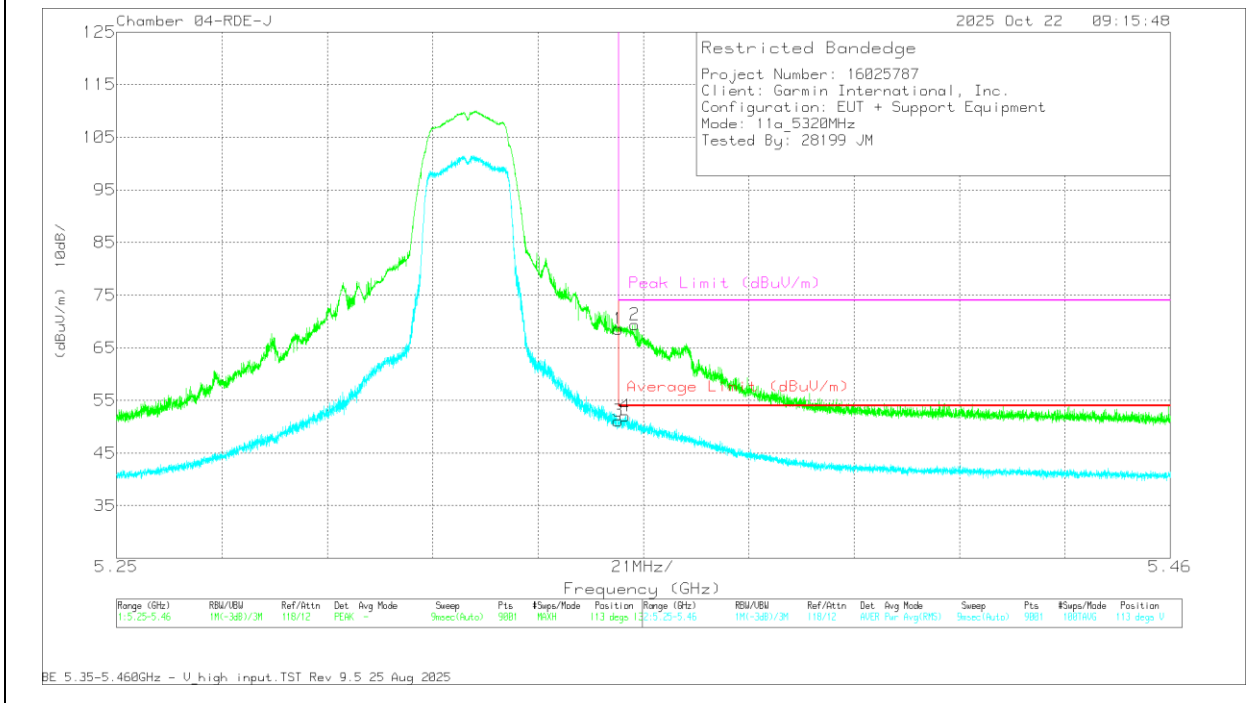
ZOOM-IN

BANDEDGE (HIGH CHANNEL / 5320MHz), a mode

HORIZONTAL RESULT



VERTICAL RESULT



10.1.4. SISO MODE IN UNII-2A BAND – SPURIOUS EMISSIONS

a mode

UNII-2a (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11a	5260	* 15.781221	43.64	ADR	41	-41	0.1	43.74	54	-10.26	-	-	16	110	V
		* 15.782812	56.59	PK-U	41	-41.1	0	56.49	-	-	74	-17.51	16	110	V
		* 4.798919	59.69	ADR	34.3	-44.8	0.1	49.29	54	-4.71	-	-	48	257	V
		* 4.799177	65.54	PK-U	34.3	-44.8	0	55.04	-	-	74	-18.96	101	147	H
		* 4.799177	52.3	ADR	34.3	-44.8	0.1	41.9	54	-12.1	-	-	101	147	H
		* 4.799225	72.45	PK-U	34.3	-44.8	0	61.95	-	-	74	-12.05	48	257	V
		10.521373	44.07	ADR	37.6	-41	0.1	40.77	-	-	-	-	16	162	H
		10.522249	42.21	ADR	37.6	-41	0.1	38.91	-	-	-	-	0	241	V
		10.522507	57.04	PK-U	37.6	-41	0	53.64	-	-	68.2	-14.56	16	162	H
		10.522685	54.3	PK-U	37.6	-41.1	0	50.8	-	-	68.2	-17.4	0	241	V
		16.507789	40.23	ADR	41.7	-38.7	0.1	43.33	-	-	-	-	204	363	H
		16.528762	52.05	PK-U	41.7	-38.5	0	55.25	-	-	68.2	-12.95	204	363	H
	5300	* 4.799134	71.49	PK-U	34.3	-44.8	0	60.99	-	-	74	-13.01	49	220	V
		* 4.799301	59.04	ADR	34.3	-44.8	0.1	48.64	54	-5.36	-	-	49	220	V
		* 11.918184	51.47	PK-U	39.6	-40.3	0	50.77	-	-	74	-23.23	117	136	H
		* 11.916122	40.23	ADR	39.6	-40.2	0.1	39.73	54	-14.27	-	-	117	136	H
		* 11.897315	51.38	PK-U	39.6	-40.1	0	50.88	-	-	74	-23.12	54	113	V
		* 11.912123	40.09	ADR	39.6	-40.1	0.1	39.69	54	-14.31	-	-	54	113	V
		2.409378	59.57	PK-U	32.2	-46.8	0	44.97	-	-	68.2	-23.23	249	132	H
		2.415885	45.1	ADR	32.2	-46.8	0.1	30.6	-	-	-	-	191	173	V
		2.418125	59.07	PK-U	32.3	-46.8	0	44.57	-	-	68.2	-23.63	191	173	V
		2.425652	45.37	ADR	32.3	-46.7	0.1	31.07	-	-	-	-	249	132	H
		7.998519	41.15	ADR	36	-41.2	0.1	36.05	-	-	-	-	155	247	H
		7.998861	54.69	PK-U	36	-41.2	0	49.49	-	-	68.2	-18.71	155	247	H
	5320	1.727147	61.02	PK-U	29.2	-46.7	0	43.52	-	-	68.2	-24.68	300	158	H
		1.728682	60.67	PK-U	29.2	-46.7	0	43.17	-	-	68.2	-25.03	293	191	V
		2.124211	71.05	PK-U	31.8	-47	0	55.85	-	-	68.2	-12.35	192	264	V
		* 9.429367	52.14	PK-U	36.7	-41.8	0	47.04	-	-	74	-26.96	194	112	H
		* 9.302567	40.54	ADR	36.5	-41.3	0.1	35.84	54	-18.16	-	-	194	112	H
		* 10.664894	51.62	PK-U	37.6	-40.8	0	48.42	-	-	74	-25.58	337	126	H
		* 10.600828	40.08	ADR	37.6	-40.5	0.1	37.28	54	-16.72	-	-	337	126	H
		* 10.603294	52.11	PK-U	37.6	-40.6	0	49.11	-	-	74	-24.89	177	296	V
		* 10.604106	40.38	ADR	37.6	-40.6	0.1	37.48	54	-16.52	-	-	177	296	V

HT20

UNII-2a (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11n	5260	* 1.328995	47.4	ADR	29.6	-47	0.1	30.1	54	-23.9	-	-	32	162	H
		* 1.333189	62.76	PK-U	29.6	-47	0	45.36	-	-	74	-28.64	32	162	H
		2.123707	65.43	PK-U	31.8	-47	0	50.23	-	-	68.2	-17.97	194	263	H
		* 1.330901	48.05	ADR	29.6	-47	0.1	30.75	54	-23.25	-	-	76	152	V
		* 1.331581	65.45	PK-U	29.6	-47	0	48.05	-	-	74	-25.95	76	152	V
		2.127748	71.83	PK-U	31.8	-47	0	56.63	-	-	68.2	-11.57	190	233	V
		10.517996	57.63	PK-U	37.6	-41	0	54.23	-	-	68.2	-13.97	295	214	H
		10.520257	57.75	PK-U	37.6	-41	0	54.35	-	-	68.2	-13.85	301	226	V
	5300	1.740023	59.98	PK-U	29.4	-46.8	0	42.58	-	-	68.2	-25.62	261	243	H
		1.734457	45.72	ADR	29.3	-46.7	0.1	28.42	-	-	-	-	261	243	H
		1.736717	59.68	PK-U	29.3	-46.7	0	42.28	-	-	68.2	-25.92	204	243	V
		1.741224	45.71	ADR	29.4	-46.8	0.1	28.41	-	-	-	-	204	243	V
		* 2.3669	56.8	PK-U	32.1	-47	0	41.9	-	-	74	-32.1	225	214	H
		* 2.37722	45.38	ADR	32.2	-46.9	0.1	30.78	54	-23.22	-	-	225	214	H
		2.416295	58.81	PK-U	32.2	-46.8	0	44.21	-	-	68.2	-23.99	150	164	V
		2.429201	45.1	ADR	32.3	-46.7	0.1	30.8	-	-	-	-	150	164	V
		16.513678	52.13	PK-U	41.7	-38.4	0	55.43	-	-	68.2	-12.77	350	218	H
		16.54762	40.23	ADR	41.8	-38.7	0.1	43.43	-	-	-	-	350	218	H
		16.519302	52.01	PK-U	41.7	-38.4	0	55.31	-	-	68.2	-12.89	36	268	V
		16.541626	40.54	ADR	41.8	-38.7	0.1	43.74	-	-	-	-	36	268	V
	5320	2.421814	58.19	PK-U	32.3	-46.7	0	43.79	-	-	68.2	-24.41	91	201	H
		2.426194	45.55	ADR	32.3	-46.7	0.1	31.25	-	-	-	-	91	201	H
		2.422288	58.64	PK-U	32.3	-46.7	0	44.24	-	-	68.2	-23.96	123	289	V
		2.424648	45.36	ADR	32.3	-46.7	0.1	31.06	-	-	-	-	123	289	V
		* 4.799036	66.31	PK-U	34.3	-44.8	0	55.81	-	-	74	-18.19	275	236	H
		* 4.799683	52.49	ADR	34.3	-44.8	0.1	42.09	54	-11.91	-	-	275	236	H
		* 4.799581	71.98	PK-U	34.3	-44.8	0	61.48	-	-	74	-12.52	225	231	V
		* 4.798888	58.52	ADR	34.3	-44.8	0.1	48.12	54	-5.88	-	-	225	231	V
		16.553132	52.34	PK-U	41.8	-38.8	0	55.34	-	-	68.2	-12.86	241	151	H
		16.572288	40.37	ADR	41.9	-38.4	0.1	43.97	-	-	-	-	241	151	H
		16.569017	52.17	PK-U	41.9	-38.5	0	55.57	-	-	68.2	-12.63	30	263	V
		16.550932	40.26	ADR	41.8	-38.6	0.1	43.56	-	-	-	-	30	263	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

HT40

UNII-2a (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11n	5270	* 4.798982	72.37	PK-U	34.3	-44.8	0	61.87	-	-	74	-12.13	39	317	V
		* 4.799075	59.33	ADR	34.3	-44.8	0.2	49.03	54	-4.97	-	-	39	317	V
		* 11.835777	52.49	PK-U	39.5	-40.6	0	51.39	-	-	74	-22.61	299	145	H
		* 11.838124	40.08	ADR	39.5	-40.6	0.2	39.18	54	-14.82	-	-	299	145	H
		* 8.316872	51.56	PK-U	36	-40.7	0	46.86	-	-	74	-27.14	260	135	V
		* 8.305086	39.94	ADR	36	-40.8	0.2	35.34	54	-18.66	-	-	260	135	V
		* 11.959409	52.27	PK-U	39.7	-40.3	0	51.67	-	-	74	-22.33	121	155	V
		* 11.9662	40.49	ADR	39.7	-40.2	0.2	40.19	54	-13.81	-	-	121	155	V
		2.40784	57.38	PK-U	32.2	-46.8	0	42.78	-	-	68.2	-25.42	99	217	H
		2.429727	45.55	ADR	32.3	-46.6	0.2	31.45	-	-	-	-	99	217	H
		6.398672	43.41	ADR	35.8	-42.7	0.2	36.71	-	-	-	-	110	107	H
		6.399014	58.08	PK-U	35.8	-42.7	0	51.18	-	-	68.2	-17.02	110	107	H
	5310	* 10.604053	49.38	PK-U	37.6	-36.8	0	50.18	-	-	74	-23.82	105	330	H
		* 10.618709	37.6	ADR	37.6	-36.7	0.2	38.7	54	-15.3	-	-	105	330	H
		* 10.605097	49.26	PK-U	37.6	-36.8	0	50.06	-	-	74	-23.94	331	352	V
		* 10.624508	37.68	ADR	37.6	-36.7	0.2	38.78	54	-15.22	-	-	331	352	V
		* 4.798784	64.54	PK-U	34.2	-40.2	0	58.54	-	-	74	-15.46	184	159	V
		* 4.798904	51.73	ADR	34.2	-40.2	0.2	45.93	54	-8.07	-	-	184	159	V
		* 4.798912	66.82	PK-U	34.2	-40.2	0	60.82	-	-	74	-13.18	197	117	H
		* 4.798948	53.81	ADR	34.2	-40.2	0.2	48.01	54	-5.99	-	-	197	117	H
		* 7.498686	49.18	PK-U	35.6	-37.7	0	47.08	-	-	74	-26.92	135	381	H
		* 7.487003	36.73	ADR	35.6	-37.8	0.2	34.73	54	-19.27	-	-	135	381	H
		* 7.550414	48.53	PK-U	35.7	-37.4	0	46.83	-	-	74	-27.17	37	367	V
		* 7.523186	36.74	ADR	35.6	-37.3	0.2	35.24	54	-18.76	-	-	37	367	V

VHT80

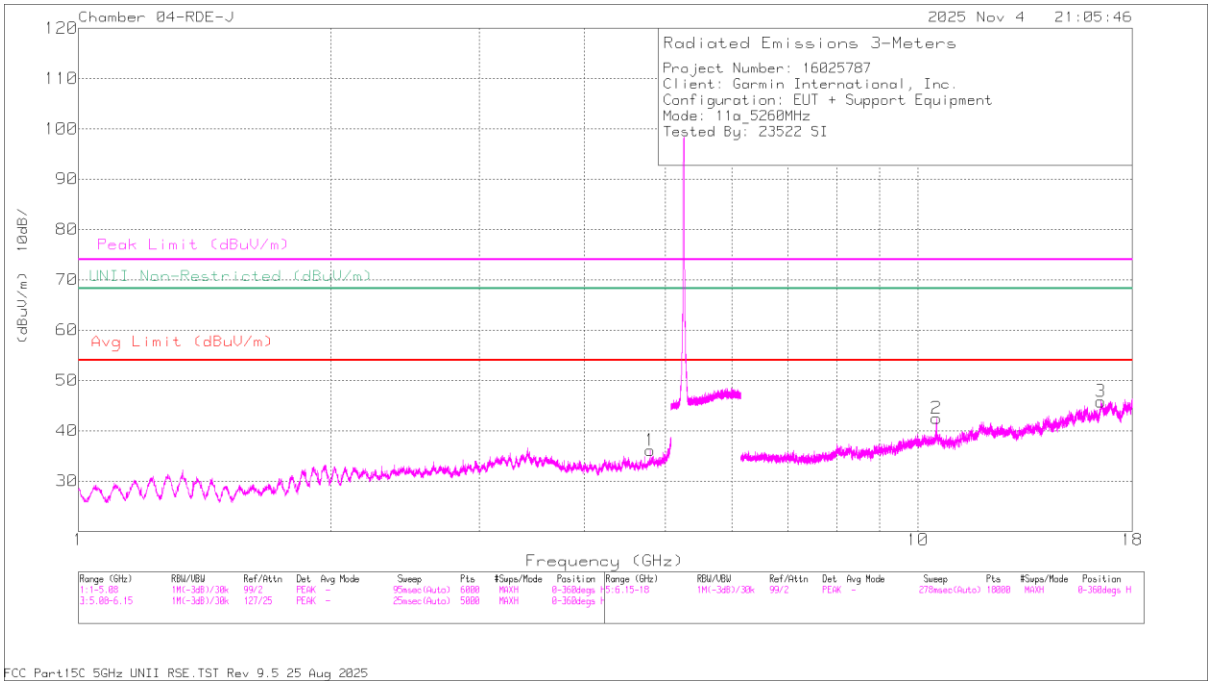
11ac	5290	* 10.618963	49.21	PK-U	37.6	-36.7	0	50.11	-	-	74	-23.89	221	399	H
		* 10.610639	37.49	ADR	37.6	-36.8	0.4	38.69	54	-15.31	-	-	221	399	H
		* 10.631075	48.92	PK-U	37.6	-36.7	0	49.82	-	-	74	-24.18	108	236	V
		* 10.617544	37.29	ADR	37.6	-36.7	0.4	38.59	54	-15.41	-	-	108	236	V
		* 3.526275	52.75	PK-U	33	-41.8	0	43.95	-	-	74	-30.05	285	219	H
		* 3.526622	42.42	ADR	33	-41.8	0.4	34.02	54	-19.98	-	-	285	219	H
		* 3.533635	52.46	PK-U	33.1	-41.8	0	43.76	-	-	74	-30.24	204	180	V
		* 3.526818	41.42	ADR	33	-41.8	0.4	33.02	54	-20.98	-	-	204	180	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

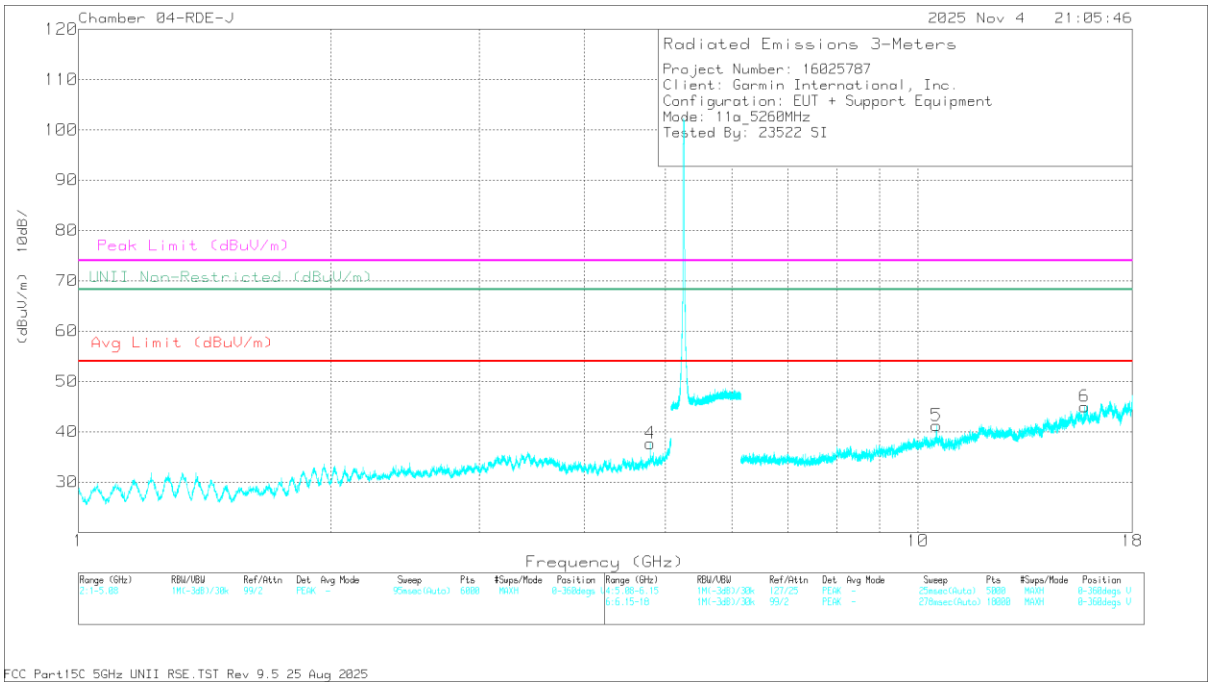
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL / 5260MHz), a mode

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

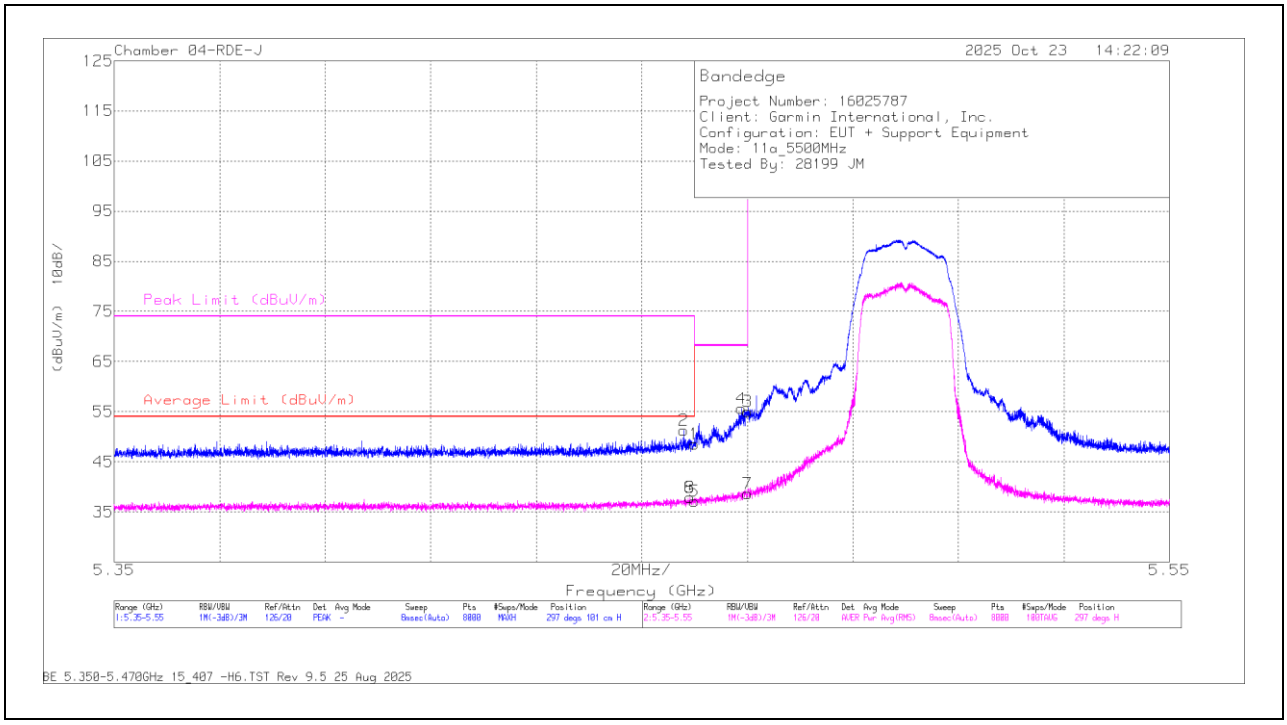
10.1.5. SISO MODE IN UNII-2C BAND – BANDEDGES

UNII-2c (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
a	5500	* 5.46	48.75	Pk	34.6	-34.8	-	48.55	-	-	68.2	-19.65	297	101	H
		* 5.457938	51.45	Pk	34.6	-34.8	-	51.25	-	-	74	-22.75	297	101	H
		5.47	55.27	Pk	34.6	-34.8	-	55.07	-	-	68.2	-13.13	297	101	H
		5.468914	55.81	Pk	34.6	-34.8	-	55.61	-	-	68.2	-12.59	297	101	H
		* 5.46	37.25	RMS	34.6	-34.8	0.1	37.15	54	-16.85	-	-	297	101	H
		* 5.459088	37.99	RMS	34.6	-34.8	0.1	37.89	54	-16.11	-	-	297	101	H
		5.47	38.72	RMS	34.6	-34.8	0.1	38.62	-	-	-	-	297	101	H
		* 5.459088	37.99	RMS	34.6	-34.8	0.1	37.89	54	-16.11	-	-	297	101	H
		* 5.46	63.3	Pk	34.6	-34.8	-	63.1	-	-	68.2	-5.1	117	205	V
		* 5.459988	63.11	Pk	34.6	-34.8	-	62.91	-	-	74	-11.09	117	205	V
		5.47	66.37	Pk	34.6	-34.8	-	66.17	-	-	68.2	-2.03	117	205	V
		5.469839	66.61	Pk	34.6	-34.8	-	66.41	-	-	68.2	-1.79	117	205	V
		* 5.46	43.86	RMS	34.6	-34.8	0.1	43.76	54	-10.24	-	-	117	205	V
		* 5.459813	44.6	RMS	34.6	-34.8	0.1	44.5	54	-9.5	-	-	117	205	V
		5.47	48.29	RMS	34.6	-34.8	0.1	48.19	-	-	-	-	117	205	V
		* 5.459813	44.6	RMS	34.6	-34.8	0.1	44.5	54	-9.5	-	-	117	205	V
	5700	5.725	53.96	Pk	34.8	-34.1	-	54.66	-	-	68.2	-13.54	72	166	H
		5.726558	55.05	Pk	34.8	-34.1	-	55.75	-	-	68.2	-12.45	72	166	H
		5.725	64.48	Pk	34.8	-34.1	-	65.18	-	-	68.2	-3.02	298	214	V
		5.726717	65.83	Pk	34.8	-34.1	-	66.53	-	-	68.2	-1.67	298	214	V
HT20	5500	* 5.46	49.97	Pk	34.6	-34.8	-	49.77	-	-	68.2	-18.43	101	262	H
		* 5.459788	51.14	Pk	34.6	-34.8	-	50.94	-	-	74	-23.06	101	262	H
		5.47	50.45	Pk	34.6	-34.8	-	50.25	-	-	68.2	-17.95	101	262	H
		5.468939	53.34	Pk	34.6	-34.8	-	53.14	-	-	68.2	-15.06	101	262	H
		* 5.46	36.64	RMS	34.6	-34.8	0.1	36.54	54	-17.46	-	-	101	262	H
		* 5.455788	37.39	RMS	34.6	-34.8	0.1	37.29	54	-16.71	-	-	101	262	H
		5.47	38.02	RMS	34.6	-34.8	0.1	37.92	-	-	-	-	101	262	H
		* 5.455788	37.39	RMS	34.6	-34.8	0.1	37.29	54	-16.71	-	-	101	262	H
		* 5.46	58.06	Pk	34.6	-34.8	-	57.86	-	-	68.2	-10.34	123	220	V
		* 5.458963	60.25	Pk	34.6	-34.8	-	60.05	-	-	74	-13.95	123	220	V
		5.47	61.59	Pk	34.6	-34.8	-	61.39	-	-	68.2	-6.81	123	220	V
		5.468339	64.67	Pk	34.6	-34.8	-	64.47	-	-	68.2	-3.73	123	220	V
		* 5.46	41.03	RMS	34.6	-34.8	0.1	40.93	54	-13.07	-	-	123	220	V
		* 5.459663	42.26	RMS	34.6	-34.8	0.1	42.16	54	-11.84	-	-	123	220	V
		5.47	45.78	RMS	34.6	-34.8	0.1	45.68	-	-	-	-	123	220	V
		* 5.459663	42.26	RMS	34.6	-34.8	0.1	42.16	54	-11.84	-	-	123	220	V
	5700	5.725	55.64	Pk	34.8	-34.1	-	56.34	-	-	68.2	-11.86	172	290	H
		5.726813	55.92	Pk	34.8	-34.1	-	56.62	-	-	68.2	-11.58	172	290	H
		5.725	62.59	Pk	34.8	-34.1	-	63.29	-	-	68.2	-4.91	287	277	V
		5.725155	65.33	Pk	34.8	-34.1	-	66.03	-	-	68.2	-2.17	287	277	V
HT40	5510	* 5.46	50.61	Pk	34.6	-34.8	-	50.41	-	-	68.2	-17.79	95	157	H
		* 5.458538	57.98	Pk	34.6	-34.8	-	57.78	-	-	74	-16.22	95	157	H
		5.47	55.12	Pk	34.6	-34.8	-	54.92	-	-	68.2	-13.28	95	157	H
		5.469939	59.29	Pk	34.6	-34.8	-	59.09	-	-	68.2	-9.11	95	157	H
		* 5.46	38.55	RMS	34.6	-34.8	0.2	38.55	54	-15.45	-	-	95	157	H
		* 5.459738	39.2	RMS	34.6	-34.8	0.2	39.2	54	-14.8	-	-	95	157	H
		5.47	42.24	RMS	34.6	-34.8	0.2	42.24	-	-	-	-	95	157	H
		* 5.459738	39.2	RMS	34.6	-34.8	0.2	39.2	54	-14.8	-	-	95	157	H
		* 5.46	56.11	Pk	34.6	-34.8	-	55.91	-	-	68.2	-12.29	121	145	V
		* 5.459488	58.2	Pk	34.6	-34.8	-	58	-	-	74	-16	121	145	V
		5.47	61.45	Pk	34.6	-34.8	-	61.25	-	-	68.2	-6.95	121	145	V
		5.469639	64.57	Pk	34.6	-34.8	-	64.37	-	-	68.2	-3.83	121	145	V
		* 5.46	42.65	RMS	34.6	-34.8	0.2	42.65	54	-11.35	-	-	121	145	V
		* 5.459988	42.46	RMS	34.6	-34.8	0.2	42.46	54	-11.54	-	-	121	145	V
		5.47	47.73	RMS	34.6	-34.8	0.2	47.73	-	-	-	-	121	145	V
		* 5.459988	42.46	RMS	34.6	-34.8	0.2	42.46	54	-11.54	-	-	121	145	V
	5670	5.725	53.58	Pk	34.8	-34.1	-	54.28	-	-	68.2	-13.92	299	150	H
		5.728184	55.74	Pk	34.8	-34.1	-	56.44	-	-	68.2	-11.76	299	150	H
		5.725	61.57	Pk	34.8	-34.1	-	62.27	-	-	68.2	-5.93	304	262	V
		5.727705	63.08	Pk	34.8	-34.1	-	63.78	-	-	68.2	-4.42	304	262	V
VHT80	5530	* 5.46	58.75	Pk	34.6	-34.8	-	58.55	-	-	68.2	-9.65	219	365	H
		* 5.451112	59.83	Pk	34.6	-34.8	-	59.63	-	-	74	-14.37	219	365	H
		5.47	60.38	Pk	34.6	-34.8	-	60.18	-	-	68.2	-8.02	219	365	H
		5.468864	61.73	Pk	34.6	-34.8	-	61.53	-	-	68.2	-6.67	219	365	H
		* 5.46	46.38	RMS	34.6	-34.8	0.4	46.58	54	-7.42	-	-	219	365	H
		* 5.459788	47.17	RMS	34.6	-34.8	0.4	47.37	54	-6.63	-	-	219	365	H
		5.47	47.33	RMS	34.6	-34.8	0.4	47.53	-	-	-	-	219	365	H
		* 5.459788	47.17	RMS	34.6	-34.8	0.4	47.37	54	-6.63	-	-	219	365	H
		* 5.46	62.66	Pk	34.6	-34.8	-	62.46	-	-	68.2	-5.74	273	101	V
		* 5.457938	64.7	Pk	34.6	-34.8	-	64.5	-	-	74	-9.5	273	101	V
		5.47	62.73	Pk	34.6	-34.8	-	62.53	-	-	68.2	-5.67	273	101	V
		5.464139	65.1	Pk	34.6	-34.8	-	64.9	-	-	68.2	-3.3	273	101	V
		* 5.46	49.82	RMS	34.6	-34.8	0.4	50.02	54	-3.98	-	-	273	101	V
		* 5.459288	50.83	RMS	34.6	-34.8	0.4	51.03	54	-2.97	-	-	273	101	V
		5.47	50.94	RMS	34.6	-34.8	0.4	51.14	-	-	-	-	273	101	V
		* 5.459288	50.83	RMS	34.6	-34.8	0.4	51.03	54	-2.97	-	-	273	101	V
	5610	5.725	61.07	Pk	34.8	-34.1	-	61.77	-	-	68.2	-6.43	76	392	H
		5.727068	63.04	Pk	34.8	-34.1	-	63.74	-	-	68.2	-4.46	76	392	H
		5.725	61.76	Pk	34.8	-34.1	-	62.46	-	-	68.2	-5.74	85	237	V
		5.727323	63.77	Pk	34.8	-34.1	-	64.47	-	-	68.2	-3.73	85	237	V

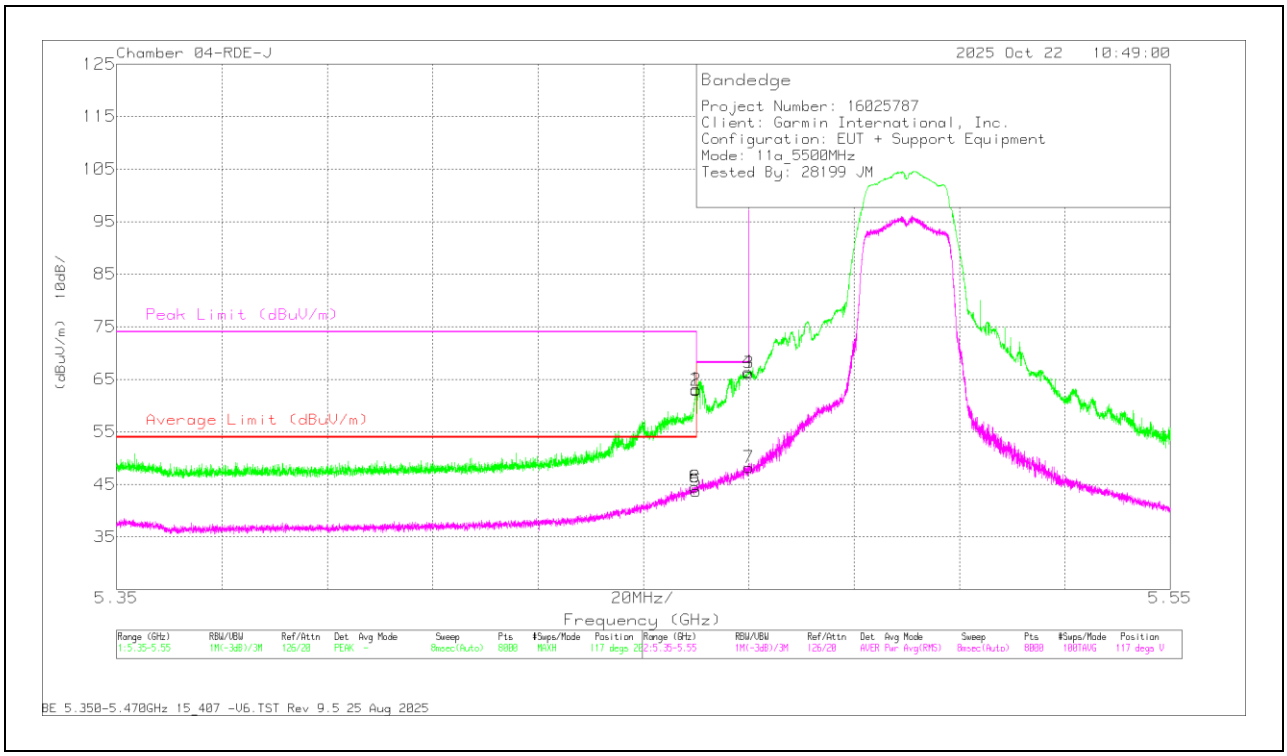
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

BANDEDGE (LOW CHANNEL / 5500MHz), a mode

HORIZONTAL RESULT



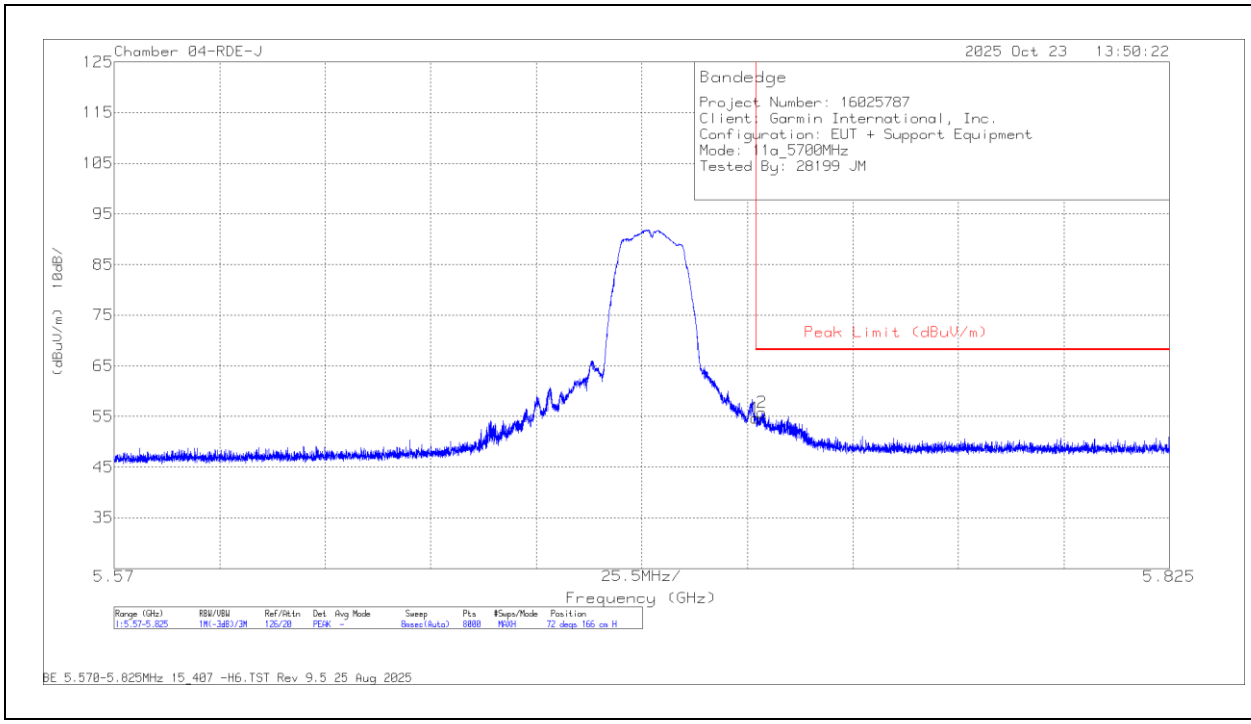
VERTICAL RESULT



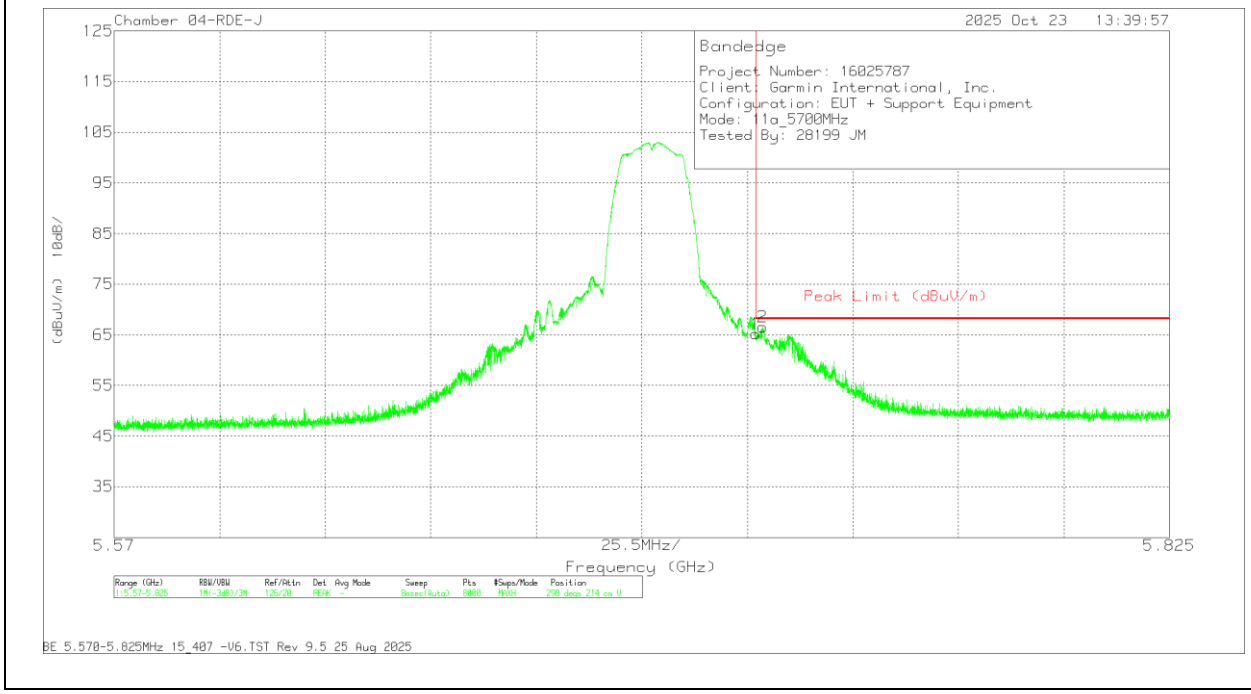
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

BANDEDGE (HIGH CHANNEL / 5700MHz), a mode

HORIZONTAL RESULT



VERTICAL RESULT



UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.1.6. SISO MODE IN UNII-2C BAND – SPURIOUS EMISSIONS

a mode

UNII-2c (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11a	5500	* 11.902397	51.27	PK-U	39.6	-40	0	50.87	-	-	74	-23.13	6	158	V
		* 11.908819	39.99	ADR	39.6	-40.1	0.1	39.59	54	-14.41	-	-	6	158	V
		* 15.896909	53.31	PK-U	41	-38.8	0	55.51	-	-	74	-18.49	340	322	H
		* 15.911194	41.17	ADR	41	-39	0.1	43.27	54	-10.73	-	-	340	322	H
		* 4.799106	73.31	PK-U	34.3	-44.8	0	62.81	-	-	74	-11.19	15	312	V
		* 4.799266	60.81	ADR	34.3	-44.8	0.1	50.41	54	-3.59	-	-	15	312	V
		* 4.799297	53.63	ADR	34.3	-44.8	0.1	43.23	54	-10.77	-	-	99	103	H
		* 4.799717	66.88	PK-U	34.3	-44.8	0	56.38	-	-	74	-17.62	99	103	H
		2.427798	58.26	PK-U	32.3	-46.7	0	43.86	-	-	68.2	-24.34	245	295	V
		2.428651	45.57	ADR	32.3	-46.7	0.1	31.27	-	-	-	-	245	295	V
		6.398896	42.65	ADR	35.8	-42.7	0.1	35.85	-	-	-	-	97	117	H
		6.398963	57.34	PK-U	35.8	-42.7	0	50.44	-	-	68.2	-17.76	97	117	H
	5580	* 4.799268	66.52	PK-U	34.3	-44.8	0	56.02	-	-	74	-17.98	105	104	H
		* 4.799095	53.68	ADR	34.3	-44.8	0.1	43.28	54	-10.72	-	-	105	104	H
		* 3.691218	54.02	PK-U	34.4	-44.7	0	43.72	-	-	74	-30.28	263	152	V
		* 3.682085	42.11	ADR	34.5	-44.7	0.1	32.01	54	-21.99	-	-	263	152	V
		* 4.798876	72.12	PK-U	34.3	-44.8	0	61.62	-	-	74	-12.38	33	317	V
		* 4.799436	58.63	ADR	34.3	-44.8	0.1	48.23	54	-5.77	-	-	33	317	V
		* 11.158965	54.99	PK-U	37.6	-41	0	51.59	-	-	74	-22.41	6	207	H
		* 11.158872	42.57	ADR	37.6	-41	0.1	39.27	54	-14.73	-	-	6	207	H
		* 15.910288	52.76	PK-U	41	-39	0	54.76	-	-	74	-19.24	104	208	V
		* 15.9088	41.22	ADR	41	-39	0.1	43.32	54	-10.68	-	-	104	208	V
		2.423209	45.05	ADR	32.3	-46.7	0.1	30.75	-	-	-	-	196	228	H
		2.429955	56.6	PK-U	32.3	-46.6	0	42.3	-	-	68.2	-25.9	196	228	H
	5700	* 3.799808	54.15	PK-U	34	-44.6	0	43.55	-	-	74	-30.45	89	262	V
		* 3.799981	44.87	ADR	34	-44.6	0.1	34.37	54	-19.63	-	-	89	262	V
		* 4.798228	71.08	PK-U	34.3	-44.8	0	60.58	-	-	74	-13.42	43	291	V
		* 4.799275	57.32	ADR	34.3	-44.8	0.1	46.92	54	-7.08	-	-	43	291	V
		2.591128	44.34	ADR	32.6	-46.6	0.1	30.44	-	-	-	-	173	234	H
		2.608382	56.09	PK-U	32.7	-46.7	0	42.09	-	-	68.2	-26.11	173	234	H
		6.398845	56.54	PK-U	35.8	-42.7	0	49.64	-	-	68.2	-18.56	100	103	H
		6.398881	42.03	ADR	35.8	-42.7	0.1	35.23	-	-	-	-	100	103	H
		17.099358	47.63	ADR	41.7	-39.8	0.1	49.63	-	-	-	-	194	120	H
		17.099682	45	ADR	41.7	-39.8	0.1	47	-	-	-	-	89	102	V
		17.102807	58.01	PK-U	41.7	-39.8	0	59.91	-	-	68.2	-8.29	89	102	V
		17.102829	61.04	PK-U	41.7	-39.8	0	62.94	-	-	68.2	-5.26	194	120	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

HT20

UNII-2c (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11n	5500	* 15.899423	41.19	ADR	41	-38.8	0.1	43.49	54	-10.51	-	-	72	289	V
		* 15.911708	53.39	PK-U	41	-39	0	55.39	-	-	74	-18.61	72	289	V
		* 4.798803	72.2	PK-U	34.3	-44.8	0	61.7	-	-	74	-12.3	20	317	V
		* 4.79925	59.32	ADR	34.3	-44.8	0.1	48.92	54	-5.08	-	-	20	317	V
		* 4.799319	53.71	ADR	34.3	-44.8	0.1	43.31	54	-10.69	-	-	104	125	H
		* 4.799786	66.73	PK-U	34.3	-44.8	0	56.23	-	-	74	-17.77	104	125	H
		16.966332	52.69	PK-U	42.1	-39.5	0	55.29	-	-	68.2	-12.91	327	364	H
		16.96859	41.14	ADR	42.1	-39.5	0.1	43.84	-	-	-	-	327	364	H
		2.415884	45.15	ADR	32.2	-46.8	0.1	30.65	-	-	-	-	221	341	V
		2.41609	58.47	PK-U	32.2	-46.8	0	43.87	-	-	68.2	-24.33	221	341	V
		9.667708	52.77	PK-U	37	-41.9	0	47.87	-	-	68.2	-20.33	255	314	H
		9.672392	40.83	ADR	37	-42	0.1	35.93	-	-	-	-	255	314	H
	5580	* 11.156441	53.97	PK-U	37.6	-41.1	0	50.47	-	-	74	-23.53	8	210	H
		* 11.158659	42.1	ADR	37.6	-41	0.1	38.8	54	-15.2	-	-	8	210	H
		* 4.798546	68.42	PK-U	34.3	-44.8	0	57.92	-	-	74	-16.08	65	104	V
		* 4.79919	66.57	PK-U	34.3	-44.8	0	56.07	-	-	74	-17.93	103	146	H
		* 4.799277	52.92	ADR	34.3	-44.8	0.1	42.52	54	-11.48	-	-	103	146	H
		* 4.79936	55.28	ADR	34.3	-44.8	0.1	44.88	54	-9.12	-	-	65	104	V
		10.298061	39.96	ADR	37.7	-41.2	0.1	36.56	-	-	-	-	130	121	V
		10.301777	51.39	PK-U	37.7	-41.2	0	47.89	-	-	68.2	-20.31	130	121	V
		6.398728	42.34	ADR	35.8	-42.7	0.1	35.54	-	-	-	-	99	105	H
		6.399213	56.91	PK-U	35.8	-42.7	0	50.01	-	-	68.2	-18.19	99	105	H
		6.700368	40.06	ADR	35.9	-43.1	0.1	32.96	-	-	-	-	348	126	V
		6.71239	52.1	PK-U	35.9	-42.8	0	45.2	-	-	68.2	-23	348	126	V
	5700	* 4.798679	66.84	PK-U	34.3	-44.8	0	56.34	-	-	74	-17.66	95	120	H
		* 4.799028	55.46	ADR	34.3	-44.8	0.1	45.06	54	-8.94	-	-	66	127	V
		* 4.799099	53.3	ADR	34.3	-44.8	0.1	42.9	54	-11.1	-	-	95	120	H
		* 4.799328	68.51	PK-U	34.3	-44.8	0	58.01	-	-	74	-15.99	66	127	V
		14.295353	40.85	ADR	39.8	-40	0.1	40.75	-	-	-	-	308	202	H
		14.324668	52.66	PK-U	39.8	-40.7	0	51.76	-	-	68.2	-16.44	308	202	H
		17.097565	59.32	PK-U	41.7	-39.9	0	61.12	-	-	68.2	-7.08	192	121	H
		17.098459	44.33	ADR	41.7	-39.8	0.1	46.33	-	-	-	-	192	103	V
		17.09893	57.32	PK-U	41.7	-39.8	0	59.22	-	-	68.2	-8.98	192	103	V
		17.099392	46.12	ADR	41.7	-39.8	0.1	48.12	-	-	-	-	192	121	H
		2.419392	58.23	PK-U	32.3	-46.7	0	43.83	-	-	68.2	-24.37	164	122	V
		2.423005	44.87	ADR	32.3	-46.7	0.1	30.57	-	-	-	-	164	122	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

HT40

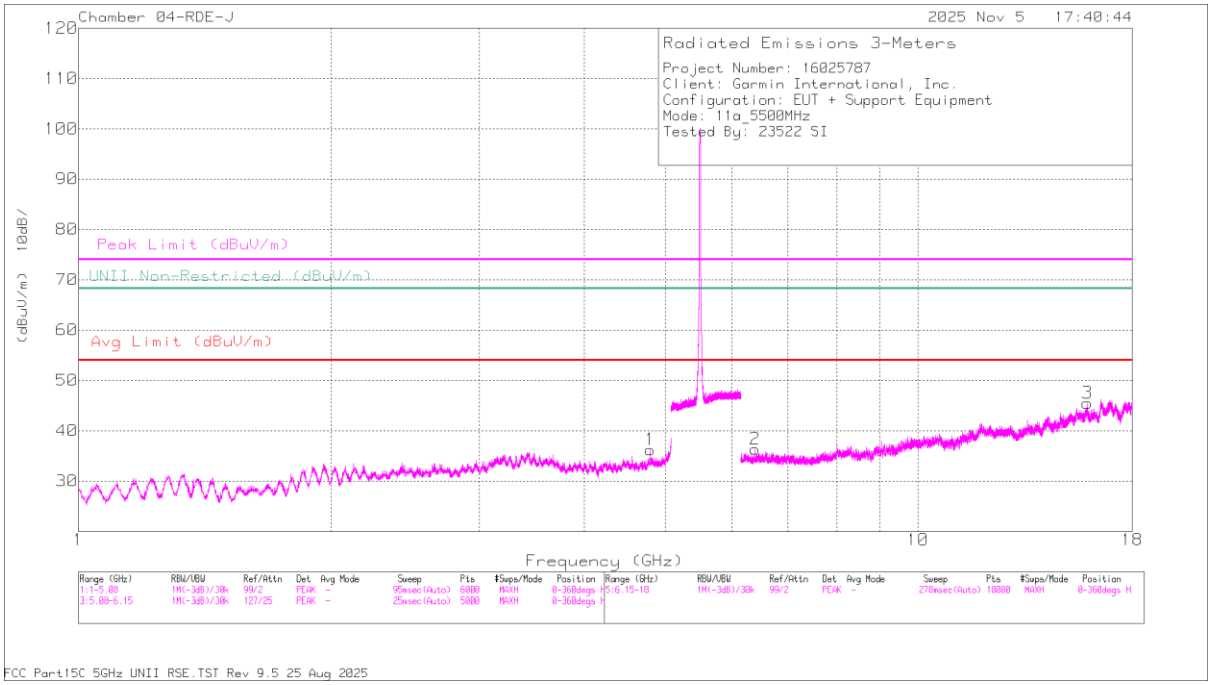
UNII-2c (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11n	5510	2.425839	56.62	PK-U	32.3	-46.7	0	42.22	-	-	68.2	-25.98	123	204	H
		2.425239	45.06	ADR	32.3	-46.7	0.2	30.86	-	-	-	-	123	204	H
		* 2.370207	57.28	PK-U	32.1	-47	0	42.38	-	-	74	-31.62	4	318	V
		* 2.366087	45.38	ADR	32.1	-47	0.2	30.68	54	-23.32	-	-	4	318	V
		* 4.799375	65.15	PK-U	34.3	-44.8	0	54.65	-	-	74	-19.35	107	166	H
		* 4.799655	51.31	ADR	34.3	-44.8	0.2	41.01	54	-12.99	-	-	107	166	H
		* 4.799068	71.24	PK-U	34.3	-44.8	0	60.74	-	-	74	-13.26	49	253	V
		* 4.799275	59.12	ADR	34.3	-44.8	0.2	48.82	54	-5.18	-	-	49	253	V
		16.801238	52.35	PK-U	42.4	-40.1	0	54.65	-	-	68.2	-13.55	104	212	H
		16.807429	40.44	ADR	42.3	-39.8	0.2	43.14	-	-	-	-	104	212	H
		16.81801	52.24	PK-U	42.3	-39.5	0	55.04	-	-	68.2	-13.16	270	209	V
		16.800881	40.47	ADR	42.4	-40.1	0.2	42.97	-	-	-	-	270	209	V
	5550	* 4.799285	64.33	PK-U	34.3	-44.8	0	53.83	-	-	74	-20.17	90	104	H
		* 4.799065	50.96	ADR	34.3	-44.8	0.2	40.66	54	-13.34	-	-	90	104	H
		* 4.799418	72.27	PK-U	34.3	-44.8	0	61.77	-	-	74	-12.23	21	317	V
		* 4.799204	59.55	ADR	34.3	-44.8	0.2	49.25	54	-4.75	-	-	21	317	V
		* 15.905177	52.89	PK-U	41	-38.8	0	55.09	-	-	74	-18.91	127	247	H
		* 15.907475	41.39	ADR	41	-38.9	0.2	43.69	54	-10.31	-	-	127	247	H
		* 15.897845	52.67	PK-U	41	-38.8	0	54.87	-	-	74	-19.13	30	155	V
		* 15.881071	41.19	ADR	41	-39.4	0.2	42.99	54	-11.01	-	-	30	155	V
		2.128045	68.68	PK-U	31.8	-47	0	53.48	-	-	68.2	-14.72	15	104	V
		2.129895	46.48	ADR	31.8	-47	0.2	31.48	-	-	-	-	280	298	H
		2.130785	48.4	ADR	31.8	-46.9	0.2	33.5	-	-	-	-	15	104	V
		2.133042	63.63	PK-U	31.8	-46.9	0	48.53	-	-	68.2	-19.67	280	298	H
	5670	* 4.799468	64.96	PK-U	34.3	-44.8	0	54.46	-	-	74	-19.54	6	193	H
		* 4.799115	50.63	ADR	34.3	-44.8	0.2	40.33	54	-13.67	-	-	6	193	H
		* 4.798728	70.98	PK-U	34.3	-44.8	0	60.48	-	-	74	-13.52	41	200	V
		* 4.799148	57.94	ADR	34.3	-44.8	0.2	47.64	54	-6.36	-	-	41	200	V
		* 11.276162	51.93	PK-U	37.9	-40.6	0	49.23	-	-	74	-24.77	292	324	H
		* 11.300029	40.37	ADR	37.9	-40.3	0.2	38.17	54	-15.83	-	-	292	324	H
		* 11.283042	51.77	PK-U	37.9	-40.4	0	49.27	-	-	74	-24.73	219	260	V
		* 11.319006	40.01	ADR	38	-41	0.2	37.21	54	-16.79	-	-	219	260	V
		17.002486	56.15	PK-U	42	-39.5	0	58.65	-	-	68.2	-9.55	192	109	H
		17.008211	42.79	ADR	42	-39.5	0.2	45.49	-	-	-	-	192	109	H
		16.999653	53.16	PK-U	42	-39.4	0	55.76	-	-	68.2	-12.44	22	272	V
		17.004141	41.67	ADR	42	-39.6	0.2	44.27	-	-	-	-	22	272	V

HT80

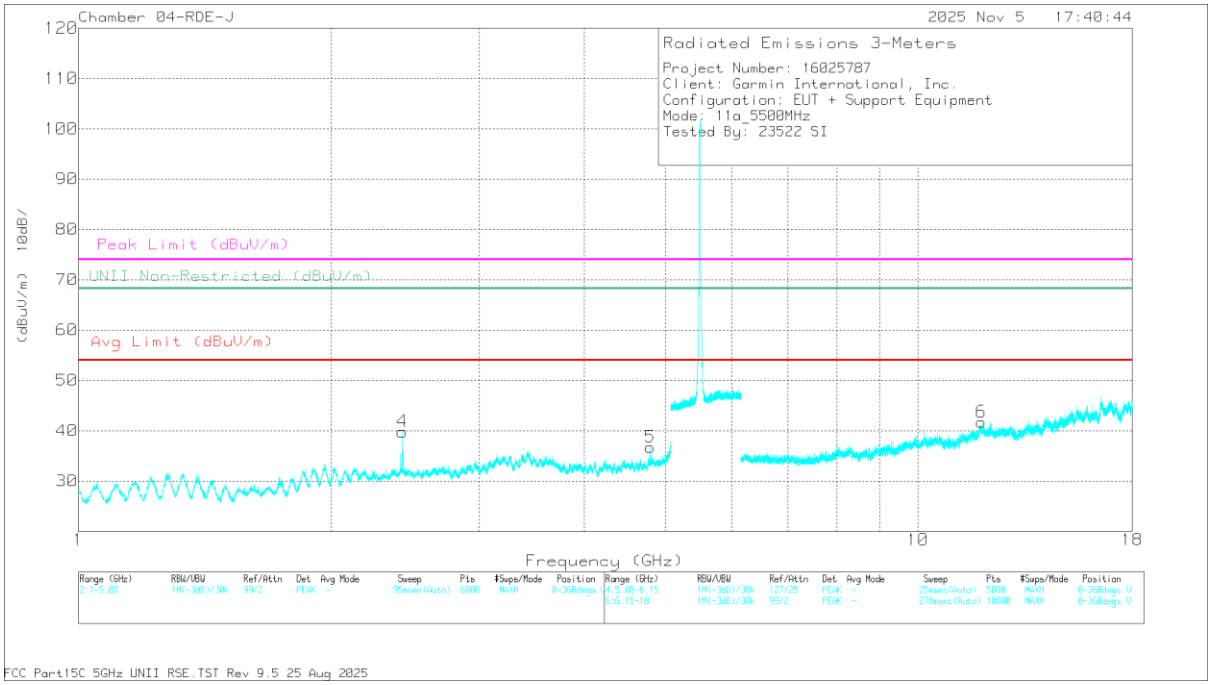
UNII-2c (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11ac	5530	2.429568	56.99	PK-U	32.3	-46.6	0	42.69	-	-	68.2	-25.51	70	168	H
		2.419982	45.57	ADR	32.3	-46.7	0.4	31.57	-	-	-	-	70	168	H
		2.424514	57.4	PK-U	32.3	-46.7	0	43	-	-	68.2	-25.2	345	397	V
		2.432607	45.42	ADR	32.3	-46.6	0.4	31.52	-	-	-	-	345	397	V
		* 4.798916	64.4	PK-U	34.3	-44.8	0	53.9	-	-	74	-20.1	115	185	H
		* 4.79887	50.4	ADR	34.3	-44.8	0.4	40.3	54	-13.7	-	-	115	185	H
		* 4.7994	70.89	PK-U	34.3	-44.8	0	60.39	-	-	74	-13.61	51	205	V
		* 4.799	57.26	ADR	34.3	-44.8	0.4	47.16	54	-6.84	-	-	51	205	V
		16.905376	52.81	PK-U	42.2	-39	0	56.01	-	-	68.2	-12.19	285	184	H
		16.893989	40.85	ADR	42.2	-38.8	0.4	44.65	-	-	-	-	285	184	H
		16.887604	52.25	PK-U	42.2	-38.9	0	55.55	-	-	68.2	-12.65	143	227	V
		16.897772	40.81	ADR	42.2	-38.8	0.4	44.61	-	-	-	-	143	227	V
	5610	2.402079	59.26	PK-U	32.2	-46.8	0	44.66	-	-	68.2	-23.54	53	238	H
		2.420266	45.16	ADR	32.3	-46.7	0.4	31.16	-	-	-	-	53	238	H
		* 2.368647	56.85	PK-U	32.1	-47	0	41.95	-	-	74	-32.05	332	235	V
		* 2.36642	45.04	ADR	32.1	-47	0.4	30.54	54	-23.46	-	-	332	235	V
		* 4.800514	64.06	PK-U	34.3	-44.8	0	53.56	-	-	74	-20.44	112	119	H
		* 4.799768	50.05	ADR	34.3	-44.8	0.4	39.95	54	-14.05	-	-	112	119	H
		* 4.798145	69.89	PK-U	34.3	-44.8	0	59.39	-	-	74	-14.61	43	262	V
		* 4.799198	56.09	ADR	34.3	-44.8	0.4	45.99	54	-8.01	-	-	43	262	V
		16.965679	53.68	PK-U	42.1	-39.5	0	56.28	-	-	68.2	-11.92	264	168	H
		16.981265	41.22	ADR	42.1	-39.6	0.4	44.12	-	-	-	-	264	168	H
		16.983785	52.48	PK-U	42.1	-39.5	0	55.08	-	-	68.2	-13.12	239	218	V
		16.972931	40.92	ADR	42.1	-39.5	0.4	43.92	-	-	-	-	239	218	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL / 5500MHz), a mode



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.1.7. SISO MODE IN UNII-3 BAND – BANDEDGE

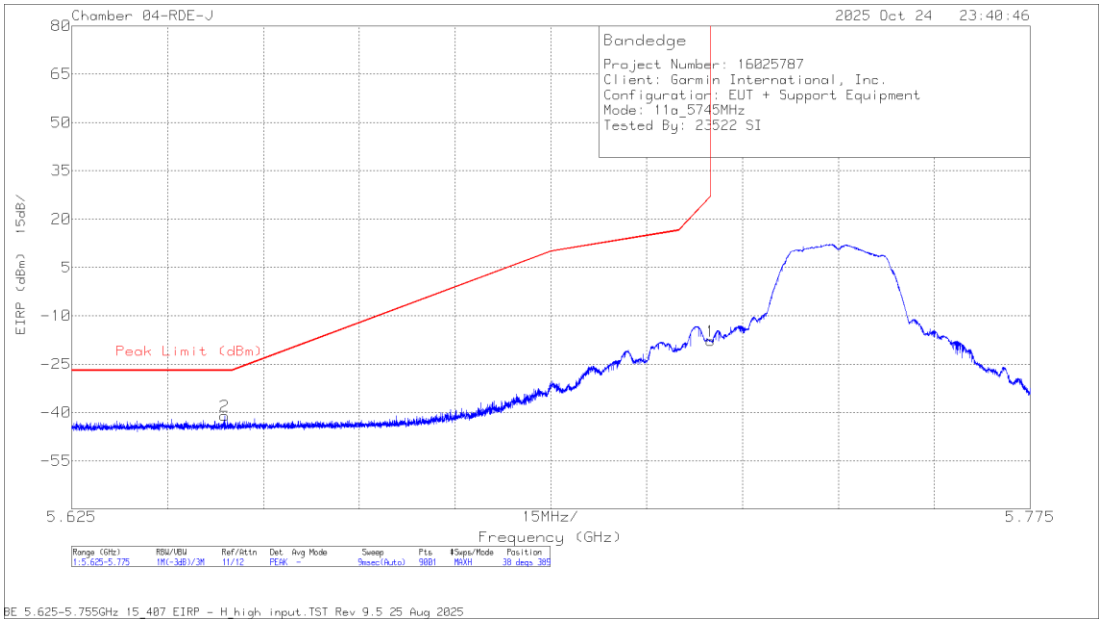
UNII-3 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Conversion Factor (dB)	DCCF (dB)	Correct Reading EIRP (dBm)	Pk Limit (dBm)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
a	5745	5.725	-41.32	Pk	34.8	-23.1	11.8	-	-17.82	27	-44.82	38	389	H
		5.648917	-63.96	Pk	34.7	-23.6	11.8	-	-41.06	-27	-14.06	38	389	H
		5.725	-44.76	Pk	34.8	-23.1	11.8	-	-21.26	27	-48.26	357	350	V
		5.640517	-65.34	Pk	34.7	-23.5	11.8	-	-42.34	-27	-15.34	357	350	V
	5825	5.85	-49.01	Pk	35	-33.9	11.8	-	-36.11	27	-63.11	34	323	H
		5.97134	-64.79	Pk	35.3	-33.8	11.8	-	-51.49	-27	-24.49	34	323	H
		5.85	-46.79	Pk	35	-33.9	11.8	-	-33.89	27	-60.89	86	101	V
		5.974688	-64.44	Pk	35.3	-33.7	11.8	-	-51.04	-27	-24.04	86	101	V
HT20	5745	5.725	-47.08	Pk	34.8	-23.1	11.8	-	-23.58	27	-50.58	230	135	H
		5.628617	-64.6	Pk	34.6	-23.6	11.8	-	-41.8	-27	-14.8	230	135	H
		5.725	-43.28	Pk	34.8	-23.1	11.8	-	-19.78	27	-46.78	99	101	V
		5.649134	-64.8	Pk	34.7	-23.5	11.8	-	-41.8	-27	-14.8	99	101	V
	5825	5.85	-50.23	Pk	35	-33.9	11.8	-	-37.33	27	-64.33	297	137	H
		5.976122	-64.36	Pk	35.3	-33.8	11.8	-	-51.06	-27	-24.06	297	137	H
		5.85	-50.35	Pk	35	-33.9	11.8	-	-37.45	27	-64.45	97	111	V
		5.97376	-64.25	Pk	35.3	-33.7	11.8	-	-50.85	-27	-23.85	97	111	V
HT40	5755	5.725	-46.57	Pk	34.8	-23.1	11.8	-	-23.07	27	-50.07	230	107	H
		5.634967	-64.39	Pk	34.6	-23.6	11.8	-	-41.59	-27	-14.59	230	107	H
		5.725	-43.2	Pk	34.8	-23.1	11.8	-	-19.7	27	-46.7	96	102	V
		5.649234	-62.46	Pk	34.7	-23.5	11.8	-	-39.46	-27	-12.46	96	102	V
	5795	5.85	-57.53	Pk	35	-33.9	11.8	-	-44.63	27	-71.63	302	169	H
		5.949062	-64.28	Pk	35.2	-33.7	11.8	-	-50.98	-27	-23.98	302	169	H
		5.85	-51.4	Pk	35	-33.9	11.8	-	-38.5	27	-65.5	95	119	V
		5.934998	-63.59	Pk	35.2	-33.7	11.8	-	-50.29	-27	-23.29	95	119	V
VHT80	5775 (Lower)	5.725	-40.98	Pk	34.8	-34.1	11.8	-	-28.48	27	-55.48	82	307	H
		5.65009	-49.32	Pk	34.7	-34.3	11.8	-	-37.12	-26.93	-10.19	82	307	H
		5.725	-39.59	Pk	34.8	-34.1	11.8	-	-27.09	27	-54.09	142	265	V
		5.643058	-48.45	Pk	34.7	-34.3	11.8	-	-36.25	-27	-9.25	142	265	V
	5775 (Upper)	5.85	-41.89	Pk	35	-33.9	11.8	-	-28.99	27	-55.99	34	184	H
		5.925743	-50.09	Pk	35.2	-33.8	11.8	-	-36.89	-27	-9.89	34	184	H
		5.85	-39.96	Pk	35	-33.9	11.8	-	-27.06	27	-54.06	132	278	V
		5.926137	-51.24	Pk	35.2	-33.8	11.8	-	-38.04	-27	-11.04	132	278	V

Pk - Peak detector

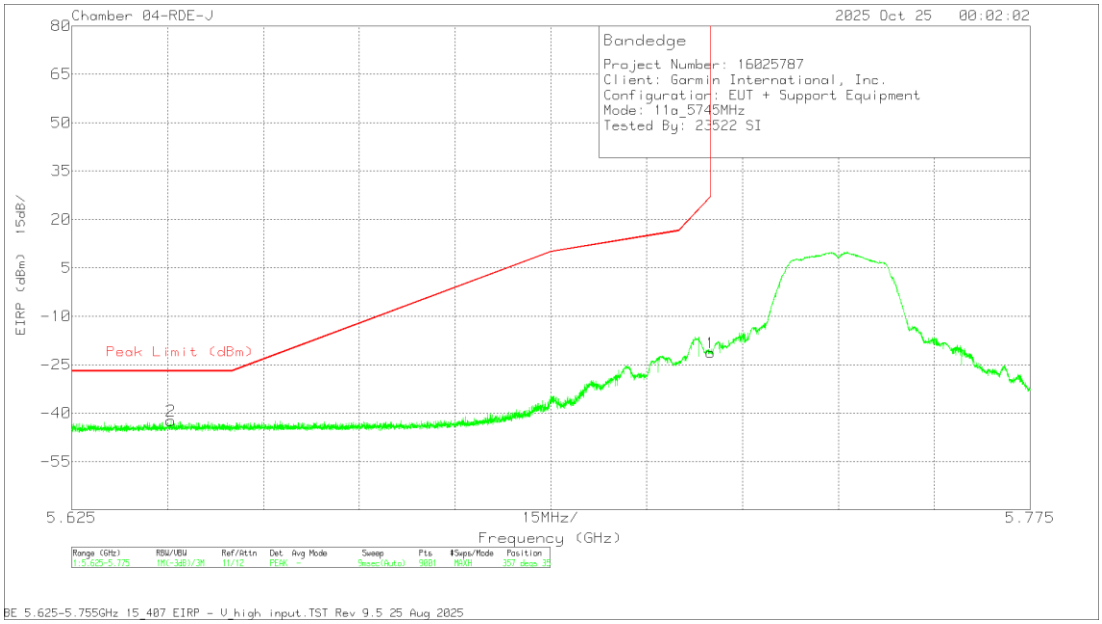
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

BANDEDGE (LOW CHANNEL / 5745MHz), a mode

HORIZONTAL RESULT



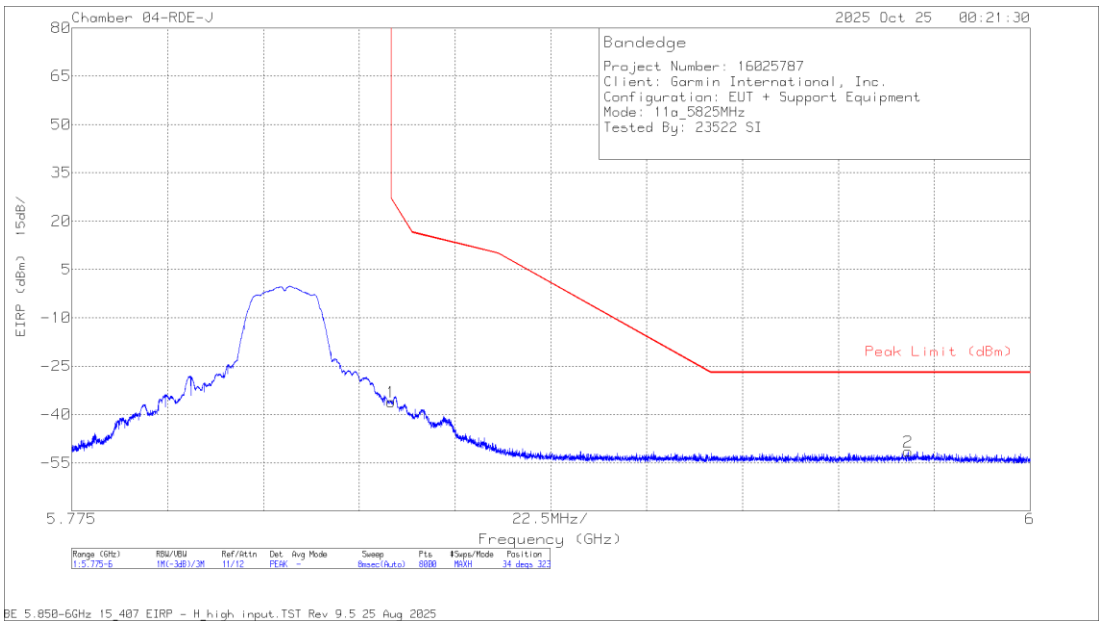
VERTICAL RESULT



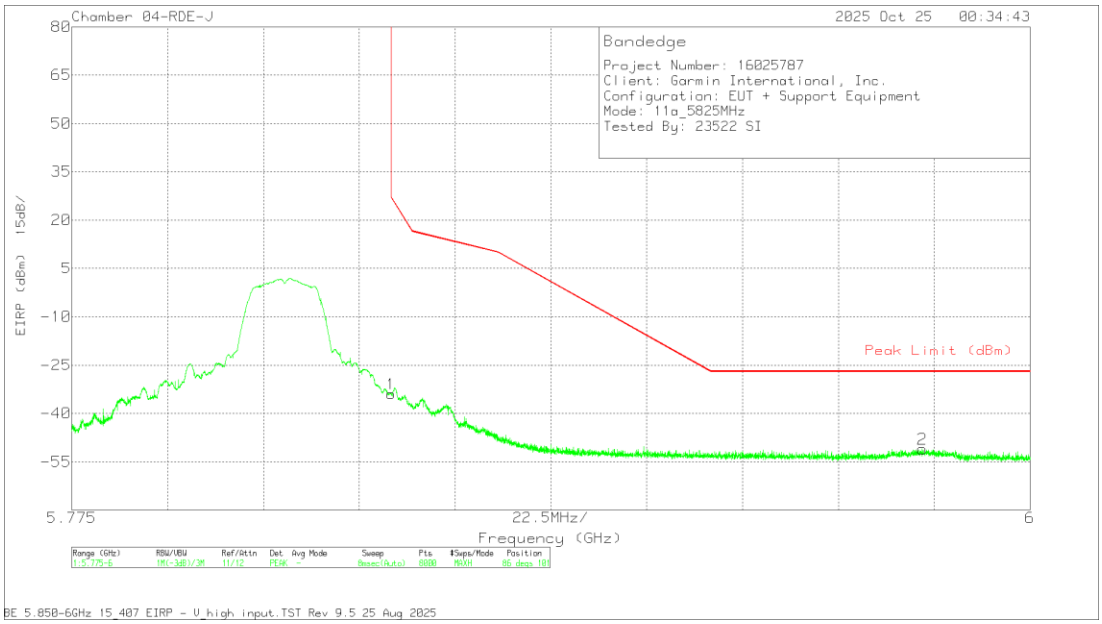
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

BANDEDGE (HIGH CHANNEL / 5825MHz), a mode

HORIZONTAL RESULT



VERTICAL RESULT



10.1.8. SISO MODE IN UNII-3 BAND – SPURIOUS EMISSIONS

a mode

UNII-3 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11a	5745	* 11.836434	51.71	PK-U	39.5	-40.6	0	50.61	-	-	74	-23.39	13	242	V
		* 11.839538	52.01	PK-U	39.5	-40.6	0	50.91	-	-	74	-23.09	83	112	H
		* 11.850101	39.97	ADR	39.5	-40.7	0.1	38.87	54	-15.13	-	-	13	242	V
		* 11.851191	39.96	ADR	39.5	-40.7	0.1	38.86	54	-15.14	-	-	83	112	H
		* 4.791543	43.3	ADR	34.3	-44.9	0.1	32.8	54	-21.2	-	-	40	322	H
		* 4.797316	54.75	PK-U	34.3	-44.8	0	44.25	-	-	74	-29.75	40	322	H
		* 4.798864	56.92	ADR	34.3	-44.8	0.1	46.52	54	-7.48	-	-	32	284	V
		* 4.79977	70.7	PK-U	34.3	-44.8	0	60.2	-	-	74	-13.8	32	284	V
		* 8.290632	39.67	ADR	36	-41	0.1	34.77	54	-19.23	-	-	103	369	V
		* 8.29817	51.79	PK-U	36	-40.7	0	47.09	-	-	74	-26.91	27	228	H
		* 8.305268	51.79	PK-U	36	-40.8	0	46.99	-	-	74	-27.01	103	369	V
		* 8.31213	39.68	ADR	36	-40.6	0.1	35.18	54	-18.82	-	-	27	228	H
	5785	* 11.569057	54.53	PK-U	38.7	-41	0	52.23	-	-	74	-21.77	91	101	V
		* 11.571009	40.01	ADR	38.7	-41	0.1	37.81	54	-16.19	-	-	75	188	H
		* 11.571364	42.67	ADR	38.7	-41	0.1	40.47	54	-13.53	-	-	91	101	V
		* 11.572178	51.97	PK-U	38.7	-41	0	49.67	-	-	74	-24.33	75	188	H
		* 3.856634	46.03	ADR	33.8	-44.7	0.1	35.23	54	-18.77	-	-	80	101	V
		* 3.856814	54.89	PK-U	33.8	-44.7	0	43.99	-	-	74	-30.01	80	101	V
		* 4.798216	64.84	PK-U	34.3	-44.8	0	54.34	-	-	74	-19.66	54	133	H
		* 4.798765	69.34	PK-U	34.3	-44.8	0	58.84	-	-	74	-15.16	7	218	V
		* 4.798878	55.81	ADR	34.3	-44.8	0.1	45.41	54	-8.59	-	-	7	218	V
		* 4.799089	50.99	ADR	34.3	-44.8	0.1	40.59	54	-13.41	-	-	54	133	H
		10.473413	51.91	PK-U	37.6	-41.2	0	48.31	-	-	68.2	-19.89	231	155	H
		10.489458	40.43	ADR	37.6	-40.9	0.1	37.23	-	-	-	-	231	155	H
	5825	* 4.79983	65.68	PK-U	34.3	-44.8	0	55.18	-	-	74	-18.82	100	174	H
		* 4.79913	52.46	ADR	34.3	-44.8	0.1	42.06	54	-11.94	-	-	100	174	H
		* 4.798825	70.92	PK-U	34.3	-44.8	0	60.42	-	-	74	-13.58	45	128	V
		* 4.799179	58.29	ADR	34.3	-44.8	0.1	47.89	54	-6.11	-	-	45	128	V
		* 11.658144	52.29	PK-U	39	-40.9	0	50.39	-	-	74	-23.61	340	103	H
		* 11.65222	40.71	ADR	39	-41	0.1	38.81	54	-15.19	-	-	340	103	H
		* 11.648492	54.22	PK-U	39	-41	0	52.22	-	-	74	-21.78	90	105	V
		* 11.65259	42.58	ADR	39	-41	0.1	40.68	54	-13.32	-	-	90	105	V
		2.420181	58.64	PK-U	32.3	-46.7	0	44.24	-	-	68.2	-23.96	171	249	H
		2.422619	45.16	ADR	32.3	-46.7	0.1	30.86	-	-	-	-	148	311	V
		2.426721	45.07	ADR	32.3	-46.7	0.1	30.77	-	-	-	-	171	249	H
		2.444212	60	PK-U	32.3	-46.5	0	45.8	-	-	68.2	-22.4	148	311	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

HT20

UNII-3 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11n	5745	2.480143	60.25	PK-U	32.4	-46.6	0	46.05	-	-	68.2	-22.15	236	262	H
		* 2.491889	44.37	ADR	32.5	-46.6	0.1	30.37	54	-23.63	-	-	236	262	H
		2.479786	61.46	PK-U	32.4	-46.6	0	47.26	-	-	68.2	-20.94	312	209	V
		2.480259	46.45	ADR	32.4	-46.6	0.1	32.35	-	-	-	-	312	209	V
		* 4.799618	64.6	PK-U	34.3	-44.8	0	54.1	-	-	74	-19.9	112	140	H
		* 4.799211	51.38	ADR	34.3	-44.8	0.1	40.98	54	-13.02	-	-	112	140	H
		* 4.799111	67.02	PK-U	34.3	-44.8	0	56.52	-	-	74	-17.48	1	152	V
		* 4.799258	54.66	ADR	34.3	-44.8	0.1	44.26	54	-9.74	-	-	1	152	V
		17.238427	54.77	PK-U	41.3	-40.1	0	55.97	-	-	68.2	-12.23	3	102	H
		17.235489	42.9	ADR	41.3	-40	0.1	44.3	-	-	-	-	3	102	H
		17.234129	54.95	PK-U	41.3	-40	0	56.25	-	-	68.2	-11.95	46	389	V
		17.232694	42.84	ADR	41.3	-40	0.1	44.24	-	-	-	-	46	389	V
	5785	2.397879	56.42	PK-U	32.2	-46.8	0	41.82	-	-	68.2	-26.38	171	251	H
		2.419679	45.13	ADR	32.3	-46.7	0.1	30.83	-	-	-	-	171	251	H
		2.40341	56.56	PK-U	32.2	-46.8	0	41.96	-	-	68.2	-26.24	143	135	V
		2.426977	45.2	ADR	32.3	-46.7	0.1	30.9	-	-	-	-	143	135	V
		4.799557	66.85	PK-U	34.3	-44.8	0	56.35	-	-	74	-17.65	48	104	H
		4.799144	49.08	ADR	34.3	-44.8	0.1	38.68	54	-15.32	-	-	48	104	H
		4.799398	71.5	PK-U	34.3	-44.8	0	61	-	-	74	-13	53	225	V
		4.799505	54.09	ADR	34.3	-44.8	0.1	43.69	54	-10.31	-	-	53	225	V
		17.361268	54.07	PK-U	41	-39.8	0	55.27	-	-	68.2	-12.93	344	222	H
		17.354957	42.44	ADR	41	-40	0.1	43.54	-	-	-	-	344	222	H
		17.355963	57.23	PK-U	41	-40	0	58.23	-	-	68.2	-9.97	32	105	V
		17.352714	44.2	ADR	41	-40.1	0.1	45.2	-	-	-	-	32	105	V
	5825	4.798271	64.99	PK-U	34.3	-44.8	0	54.49	-	-	74	-19.51	290	222	H
		4.798678	52.03	ADR	34.3	-44.8	0.1	41.63	54	-12.37	-	-	290	222	H
		4.799105	69	PK-U	34.3	-44.8	0	58.5	-	-	74	-15.5	199	227	V
		4.798771	56.04	ADR	34.3	-44.8	0.1	45.64	54	-8.36	-	-	199	227	V
		11.65208	53.92	PK-U	39	-41	0	51.92	-	-	74	-22.08	27	111	H
		11.649067	41.09	ADR	39	-41	0.1	39.19	54	-14.81	-	-	27	111	H
		11.651567	54.59	PK-U	39	-41	0	52.59	-	-	74	-21.41	263	101	V
		11.651487	42.86	ADR	39	-41	0.1	40.96	54	-13.04	-	-	263	101	V
		16.507897	51.99	PK-U	41.7	-38.7	0	54.99	-	-	68.2	-13.21	16	270	H
		16.492404	40.43	ADR	41.6	-39.3	0.1	42.83	-	-	-	-	16	270	H
		16.537333	51.86	PK-U	41.8	-38.6	0	55.06	-	-	68.2	-13.14	94	367	V
		16.539506	40.15	ADR	41.8	-38.7	0.1	43.35	-	-	-	-	94	367	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

HT40

UNII-3 (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11n	5755	4.799715	66.27	PK-U	34.3	-44.8	0	55.77	-	-	74	-18.23	111	225	H
		4.799141	52.62	ADR	34.3	-44.8	0.2	42.32	54	-11.68	-	-	111	225	H
		4.798925	70.93	PK-U	34.3	-44.8	0	60.43	-	-	74	-13.57	52	155	V
		4.799591	57.86	ADR	34.3	-44.8	0.2	47.56	54	-6.44	-	-	52	155	V
		11.474634	52.83	PK-U	38.4	-40.9	0	50.33	-	-	74	-23.67	350	111	H
		11.470372	40.84	ADR	38.4	-40.9	0.2	38.54	54	-15.46	-	-	350	111	H
		11.455253	52.15	PK-U	38.4	-41.3	0	49.25	-	-	74	-24.75	50	158	V
		11.471444	40.84	ADR	38.4	-40.9	0.2	38.54	54	-15.46	-	-	50	158	V
		16.537783	51.91	PK-U	41.8	-38.6	0	55.11	-	-	68.2	-13.09	9	336	H
		16.539098	40.22	ADR	41.8	-38.7	0.2	43.52	-	-	-	-	9	336	H
		16.504239	52.66	PK-U	41.7	-38.8	0	55.56	-	-	68.2	-12.64	343	108	V
		16.509519	40.24	ADR	41.7	-38.7	0.2	43.44	-	-	-	-	343	108	V
	5795	1.848165	58.23	PK-U	30.8	-47	0	42.03	-	-	68.2	-26.17	90	156	H
		1.851965	46.55	ADR	30.9	-47.1	0.2	30.55	-	-	-	-	90	156	H
		1.854012	58.18	PK-U	30.9	-47.1	0	41.98	-	-	68.2	-26.22	91	167	V
		1.853939	46.45	ADR	30.9	-47.1	0.2	30.45	-	-	-	-	91	167	V
		4.799188	65.11	PK-U	34.3	-44.8	0	54.61	-	-	74	-19.39	287	199	H
		4.799121	51.6	ADR	34.3	-44.8	0.2	41.3	54	-12.7	-	-	287	199	H
		4.799418	71.17	PK-U	34.3	-44.8	0	60.67	-	-	74	-13.33	208	321	V
		4.799018	58.68	ADR	34.3	-44.8	0.2	48.38	54	-5.62	-	-	208	321	V
		16.546863	52.05	PK-U	41.8	-38.7	0	55.15	-	-	68.2	-13.05	326	310	H
		16.555241	40.37	ADR	41.8	-38.7	0.2	43.67	-	-	-	-	326	310	H
		16.526661	51.8	PK-U	41.7	-38.5	0	55	-	-	68.2	-13.2	5	121	V
		16.527803	40.18	ADR	41.7	-38.5	0.2	43.58	-	-	-	-	5	121	V

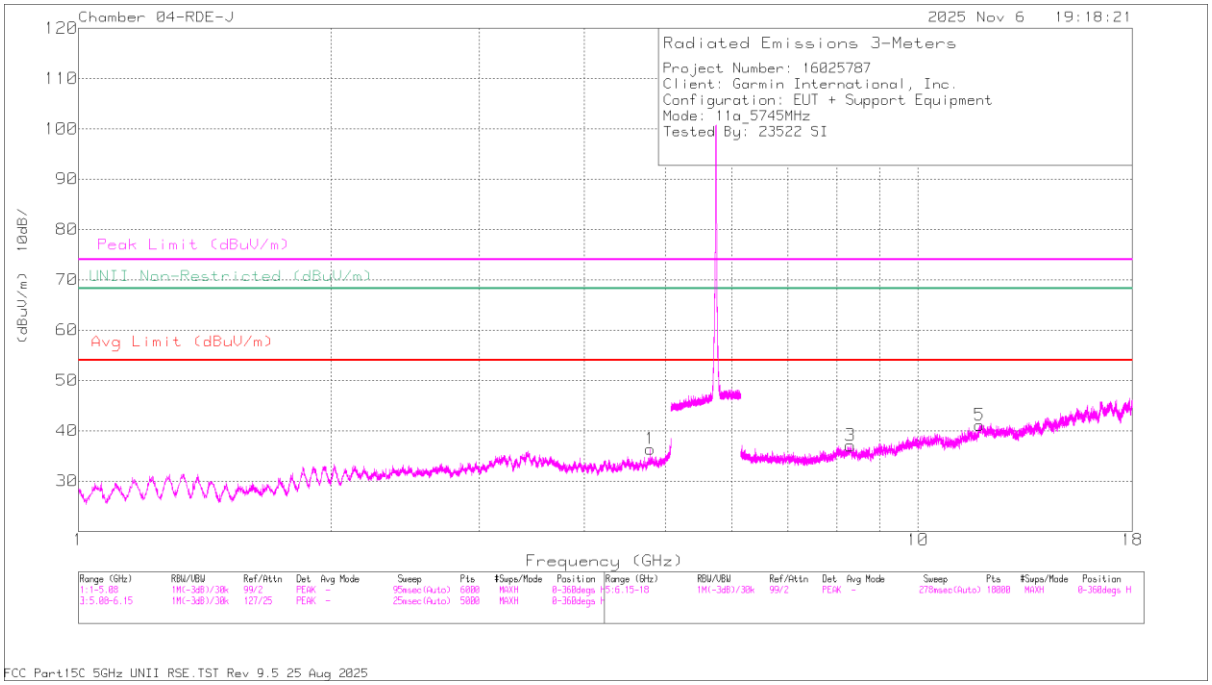
VHT80

11ac	5775	4.799285	65.12	PK-U	34.3	-44.8	0	54.62	-	-	74	-19.38	101	156	H
		4.799058	51.53	ADR	34.3	-44.8	0.4	41.43	54	-12.57	-	-	101	156	H
		4.798873	71.79	PK-U	34.3	-44.8	0	61.29	-	-	74	-12.71	41	222	V
		4.799219	58.38	ADR	34.3	-44.8	0.4	48.28	54	-5.72	-	-	41	222	V
		11.464963	52.61	PK-U	38.4	-41	0	50.01	-	-	74	-23.99	211	105	H
		11.471901	40.93	ADR	38.4	-40.9	0.4	38.83	54	-15.17	-	-	211	105	H
		11.475677	52.45	PK-U	38.4	-40.9	0	49.95	-	-	74	-24.05	275	170	V
		11.471931	40.64	ADR	38.4	-40.9	0.4	38.54	54	-15.46	-	-	275	170	V
		16.54199	52.95	PK-U	41.8	-38.7	0	56.05	-	-	68.2	-12.15	108	166	H
		16.523866	40.54	ADR	41.7	-38.5	0.4	44.14	-	-	-	-	108	166	H
		16.510785	51.7	PK-U	41.7	-38.7	0	54.7	-	-	68.2	-13.5	320	101	V
		16.496127	40.42	ADR	41.6	-39.3	0.4	43.12	-	-	-	-	320	101	V

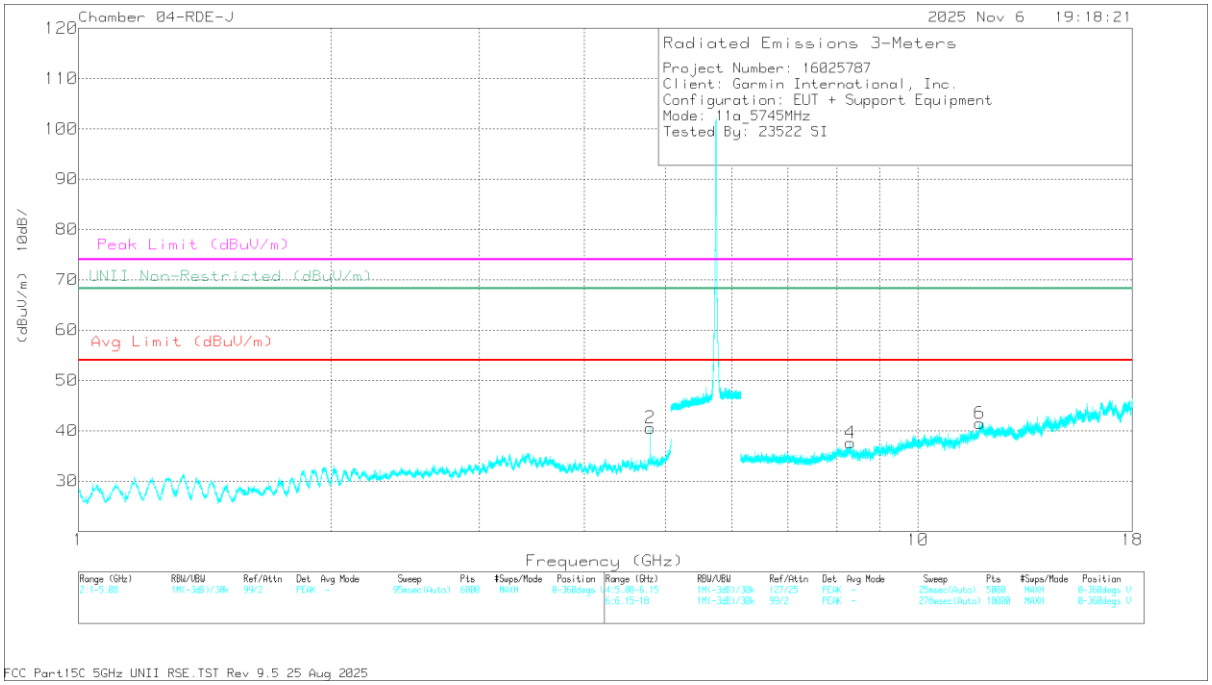
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL / 5745MHz), a mode



HORIZONTAL

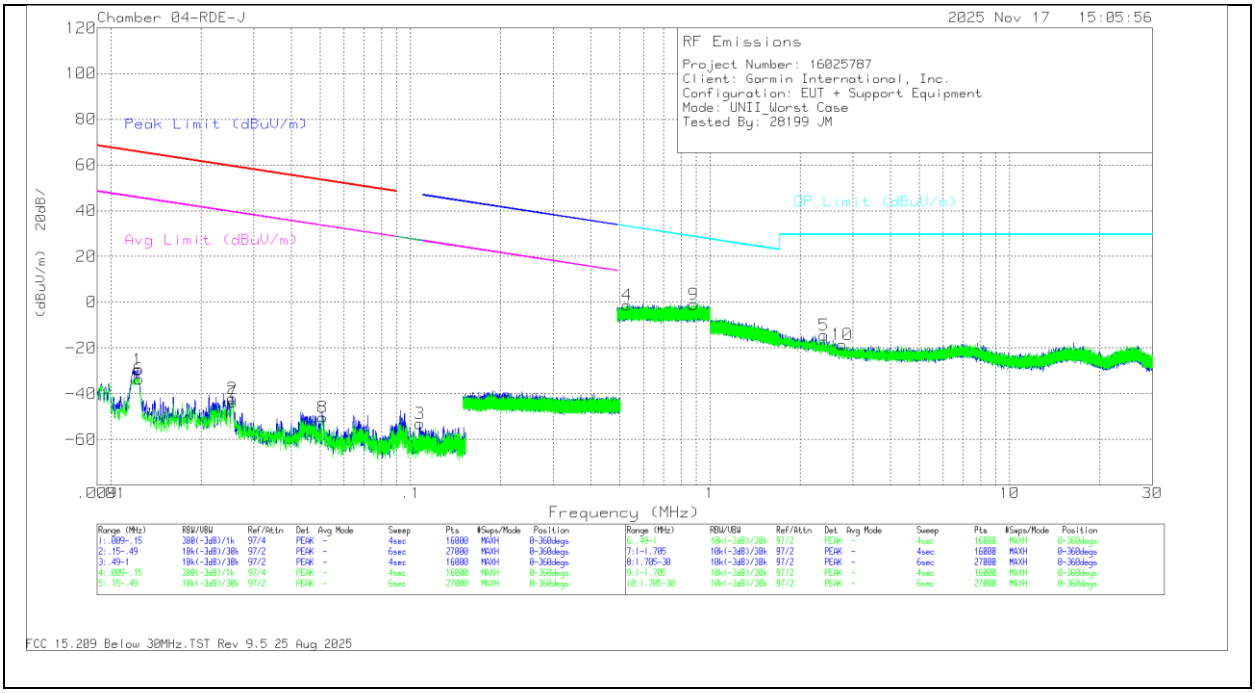


VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.2. TRANSMITTER WORST CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30MHz (WORST-CASE CONFIGURATION)



Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	CBL/AMP (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.0123	20.96	Pk	60.1	-30.5	-80	-29.44	65.79	-95.23	45.79	-75.23	-	-	0-360
2	.0255	11.13	Pk	58.5	-31.7	-80	-42.07	59.46	-101.53	39.46	-81.53	-	-	0-360
3	.1075	3.63	Pk	55.7	-32.4	-80	-53.07	-	-	-	-	27	-80.07	0-360
6	.0124	16.83	Pk	60.1	-30.5	-80	-33.57	65.72	-99.29	45.72	-79.29	-	-	0-360
7	.0254	9.5	Pk	58.5	-31.7	-80	-43.7	59.48	-103.18	39.48	-83.18	-	-	0-360
8	.0509	4.34	Pk	57.1	-31.7	-80	-50.26	53.44	-103.7	33.44	-83.7	-	-	0-360

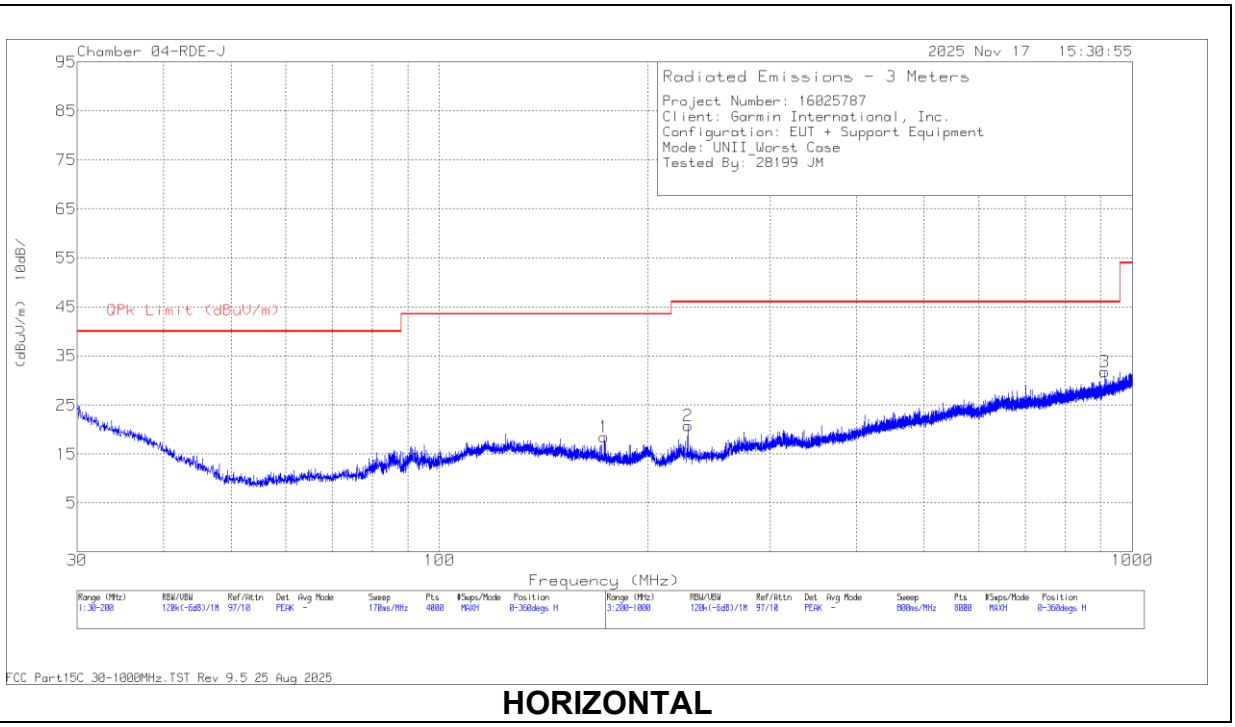
	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	.5286	14.73	Pk	56.3	-32.3	-40	-1.27	33.14	-34.41	0-360
5	2.4009	16.86	Pk	40.4	-31.7	-40	-14.44	29.5	-43.94	0-360
9	.8827	14.64	Pk	56.5	-32.2	-40	-1.06	28.7	-29.76	0-360
10	2.7572	14.22	Pk	39.4	-32.2	-40	-18.58	29.5	-48.08	0-360

Pk - Peak detector

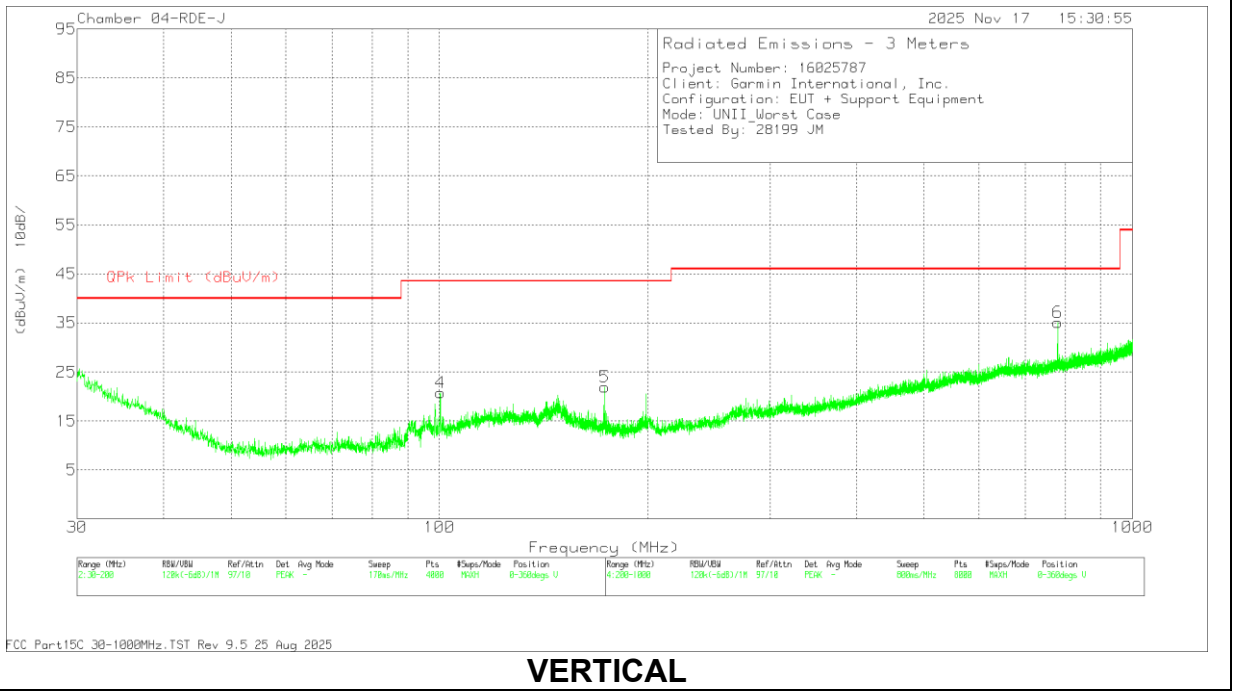
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.3. TRANSMITTER WORST CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

Below 1GHz Data

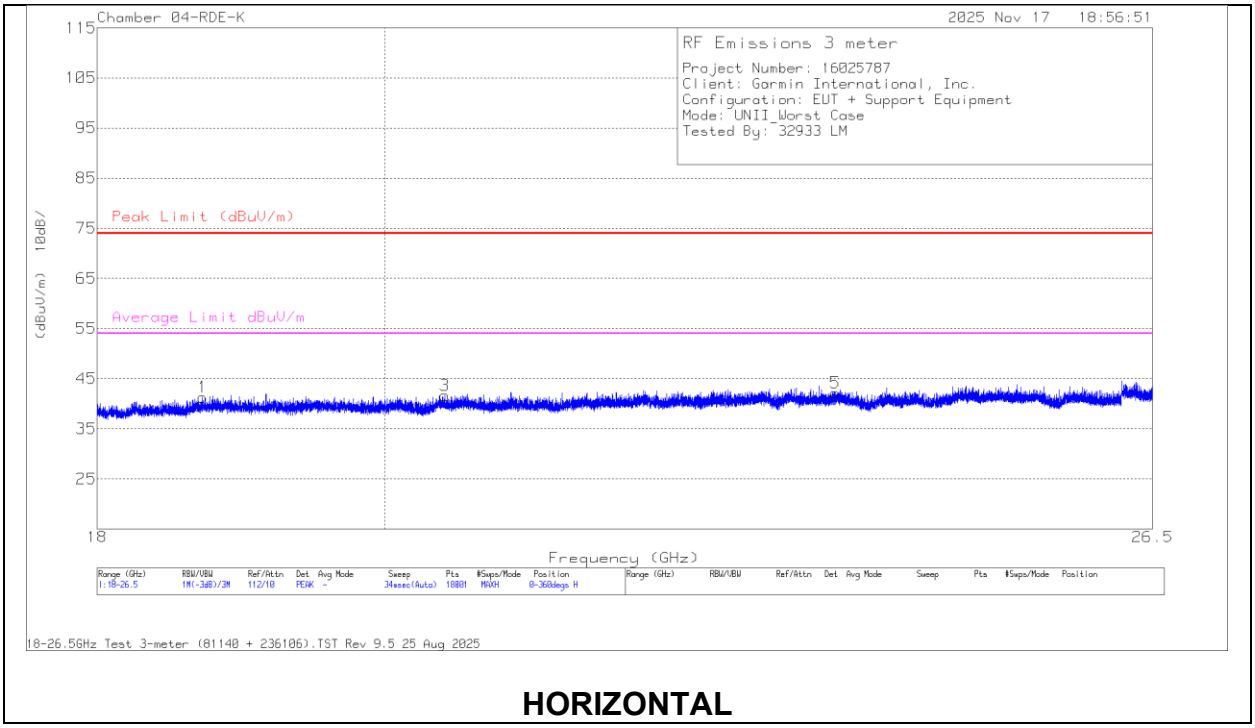
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202329 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	172.837	31.9	Pk	17.4	-30.8	18.5	43.52	-25.02	0-360	398	H
2	228.204	34.55	Pk	16.8	-30.6	20.75	46.02	-25.27	0-360	199	H
3	912.993	31.44	Pk	28	-27.7	31.74	46.02	-14.28	0-360	101	H
4	100.271	35.72	Pk	16.3	-31.2	20.82	43.52	-22.7	0-360	101	V
5	173.05	35.36	Pk	17.4	-30.8	21.96	43.52	-21.56	0-360	101	V
6	784.5	20.72	Qp	26.9	-28.6	19.02	46.02	-27	180	372	V

Pk - Peak detector
Qp - Quasi-Peak detector

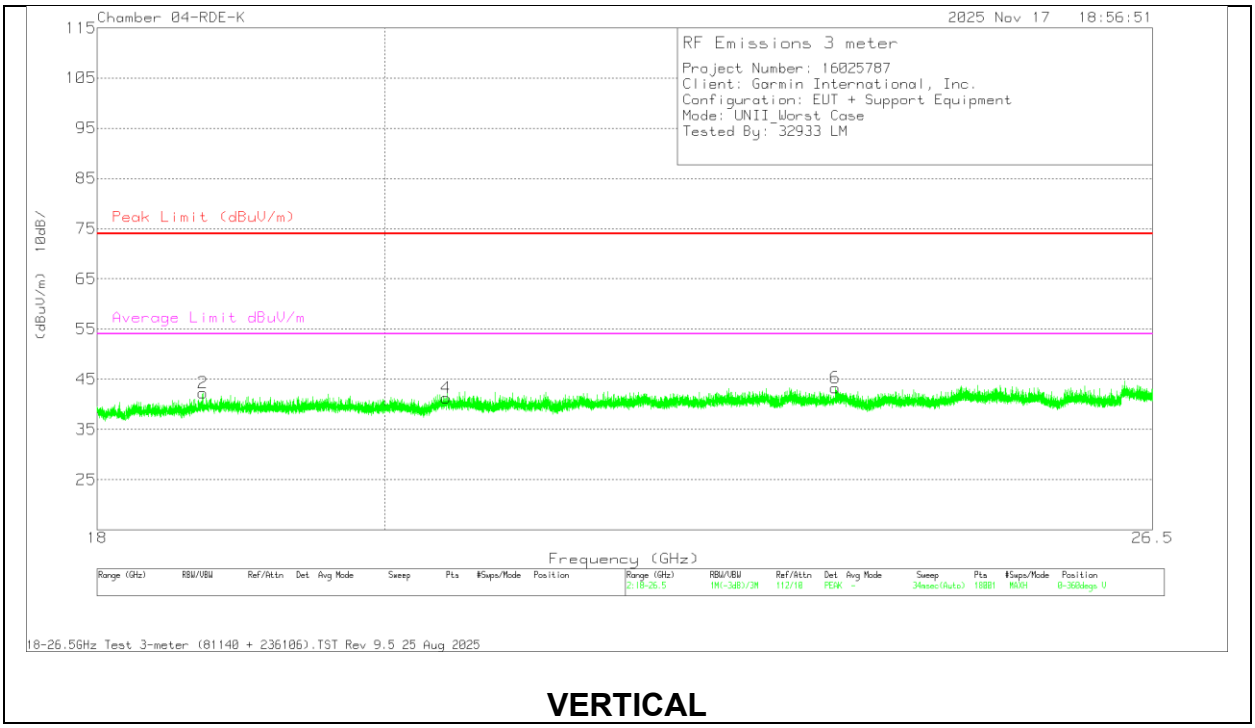
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.4. TRANSMITTER WORST CASE 18-26 GHz

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

18 – 26GHz Data

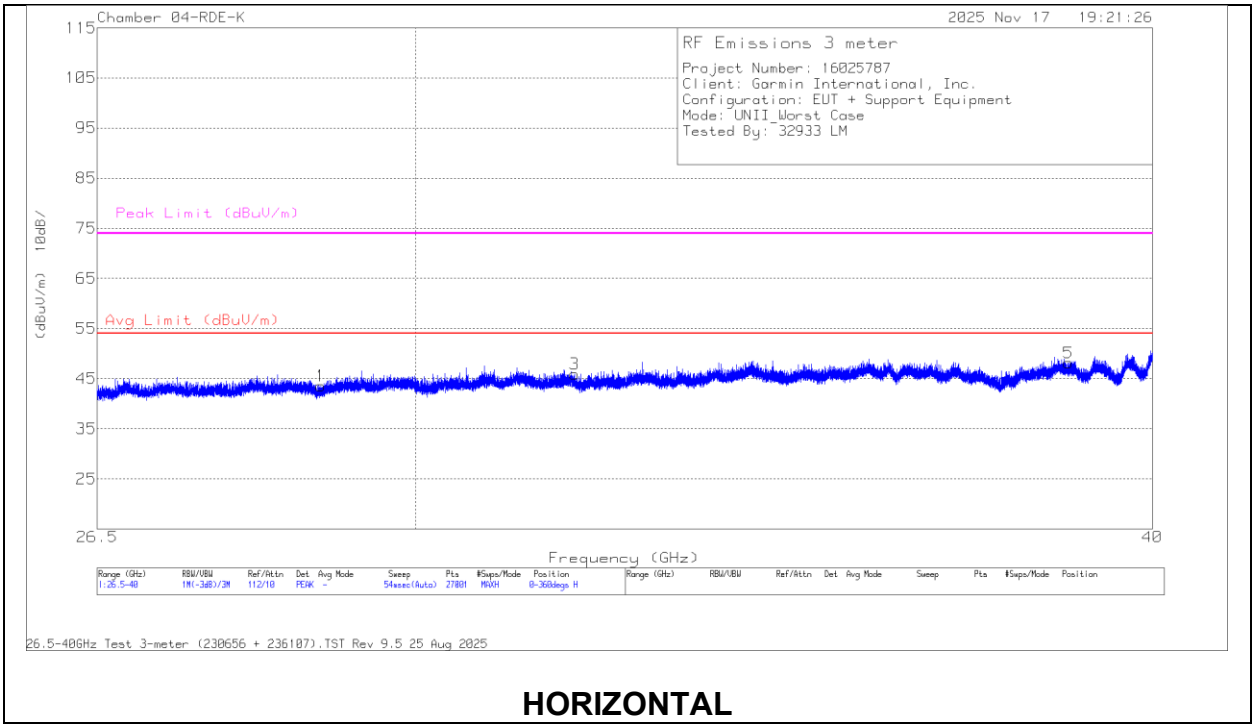
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81140 ACF (dB/m)	CBL/AMP (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.709277	52.07	Pk	32.2	-62.6	19.6	41.27	74	-32.73	-	-	0-360	200	H
2	18.712111	53.12	Pk	32.2	-62.6	19.6	42.32	74	-31.68	-	-	0-360	200	V
3	20.447054	49.96	Pk	32.7	-61.3	20.3	41.66	74	-32.34	-	-	0-360	101	H
4	20.453666	49.54	Pk	32.8	-61.4	20.3	41.24	74	-32.76	-	-	0-360	200	V
5	23.591108	49.63	Pk	33.5	-62.7	21.7	42.13	74	-31.87	-	-	0-360	200	H
6	23.590636	50.83	Pk	33.5	-62.7	21.7	43.33	74	-30.67	-	-	0-360	200	V

Pk - Peak detector

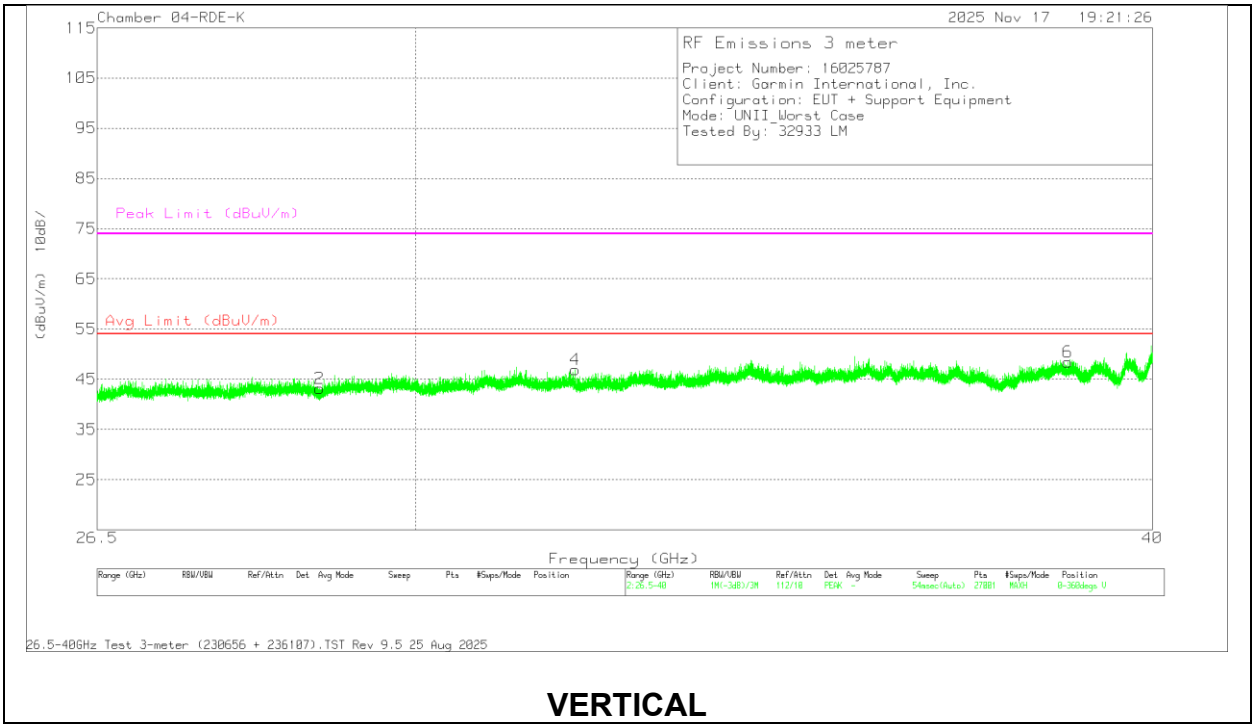
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.5. TRANSMITTER WORST CASE 26-40 GHz

SPURIOUS EMISSIONS 26-40 GHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

26 – 40GHz Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230656 ACF (dB/m)	CBL/AMP (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	28.918	46.93	Pk	35.8	-63.3	24.1	43.53	-	-	74	-30.47	0-360	200	H
2	28.9025	46.61	Pk	35.8	-63.4	24.1	43.11	-	-	74	-30.89	0-360	200	V
3	31.923	45.93	Pk	36.3	-61.7	25.4	45.93	-	-	74	-28.07	0-360	200	H
4	31.934	46.98	Pk	36.3	-61.8	25.4	46.88	-	-	74	-27.12	0-360	200	V
5	38.711	45.71	Pk	38	-64	28.4	48.11	-	-	74	-25.89	0-360	200	H
6	38.6975	46.05	Pk	38	-64	28.4	48.45	-	-	74	-25.55	0-360	200	V

Pk - Peak detector

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

11. SETUP PHOTOS

Please refer to 16025787-EP1 for setup photos.

END OF REPORT

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888