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MEASUREMENT REPORT

FCC Part 15.407 / ISED RSS-248 802.11ax WiFi 6E (OFDMA)

Applicant Name:
Samsung Electronics Co., Ltd.
129, Samsung-ro,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:
10/29/2025-12/18/2025
Test Report Issue Date:
1/5/2026
Test Site/Location:
Element lab., Columbia, MD, USA
Test Report Serial No.:
1M2510280090-19-R1.A3L

FCC ID:	**A3LSMA576U**
IC:	**649E-SMA576W**
APPLICANT:	**Samsung Electronics Co., Ltd.**

Application Type:	Certification
Model:	SM-A576U1
HVIN:	SM-A576W
EUT Type:	Portable Handset
Frequency Range:	5935 – 7115MHz
Modulation Type:	OFDMA
FCC Classification:	15E 6GHz Low Power Dual Client (6CD)
FCC Rule Part(s):	Part 15 Subpart E (15.407)
ISED Specification:	RSS-248 Issue 3
FCC Test Procedure(s):	ANSI C63.10:2020 + Cor. 1:2023, KDB 987594 D02 v03
ISED Test Procedure(s):	ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, KDB 987594 D02 v03

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10:2020. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2510280090-19-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2510280090-19.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President

ACCREDITED
CERT #2041.01

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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	12/24/2025	WKR0000005883
1	Addressed comments made by TCB reviewer	1/5/2026	WKR0000005883

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Channel Bandwidth [MHz]	UNII Band	Tx Frequency [MHz]	MIMO	
			Max. Power [mW]	Max. Power [dBm]
20	5	5935 - 6415	37.75	15.77
	6	6435 - 6515	8.37	9.23
	7	6535 - 6875	29.77	14.74
	8	6895 - 7115	7.72	8.88
40	5	5965 - 6405	19.48	12.90
	6	6445 - 6525	8.64	9.37
	7	6565 - 6845	16.51	12.18
	8	6885 - 7085	7.42	8.70
80	5	5985 - 6385	15.68	11.95
	6	6465	7.11	8.52
	7	6545 - 6865	12.51	10.97
	8	6945 - 7025	6.89	8.38

EUT Overview - EIRP

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1 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Test Location

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4:2014.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.

- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).

- Element Washington DC LLC facility is a registered test laboratory with the site description on file with ISED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113).

- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Electronics Co., Ltd. Portable Handset FCC ID: A3LSMA576U** and **IC: 649E-SMA576W**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band in dual-client (LPI+SP) mode.

Test Device Serial No.: 0545M, 0554M, 2256M, 2378M, 2417M

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz), 802.11a/ax UNII (6GHz), Bluetooth (1x, EDR, LE), NFC, SCS

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
2	5935	97	6435	117	6535	189	6895
:	:	:	:	:	:	:	:
45	6175	105	6475	149	6695	209	6995
:	:	:	:	:	:	:	:
93	6415	113	6515	185	6875	233	7115

Table 2-1. 802.11ax (20MHz) Frequency / Channel Operations

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
3	5965	99	6445	123	6565	187	6885
:	:	:	:	:	:	:	:
43	6165	107	6485	155	6725	211	7005
:	:	:	:	:	:	:	:
91	6405	115	6525	179	6845	227	7085

Table 2-2. 802.11ax (40MHz BW) Frequency / Channel Operations

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
7	5985	103	6465	119	6545	199	6945
:	:			:	:	:	:
39	6145			151	6705	215	7025
:	:			:	:		
87	6385			183	6865		

Table 2-3. 802.11ax (80MHz BW) Frequency / Channel Operations

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Notes:

1. 6GHz NII operation is possible in 20MHz, 40MHz, and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of ANSI C63.10:2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Band	Bandwidth	Tone Type	Tone Size	MIMO (1+2)	
				Duty Cycle [%]	Radiated DCCF [dB]
6GHz	20MHz	RU	26T	96.79	0.14
			52T	97.59	0.11
			106T	97.61	0.11
			242T	96.92	0.14
	40MHz	RU	26T	97.10	0.13
			52T	97.06	0.13
			106T	96.95	0.13
			242T	95.77	0.19
			484T	92.41	0.34
	80MHz	RU	26T	96.92	0.14
			52T	96.93	0.14
			106T	97.07	0.13
			242T	96.43	0.16
			484T	93.10	0.31
			996T	85.22	0.69

Table 2-4. Measured Duty Cycles

2. The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO		CDD		SDM	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
6 GHz	11ax	✓	✓	✓	✓	✓	✓

Table 2-5. Frequency / Channel Operations

✓= Support; × = NOT Support
SISO = Single Input Single Output
SDM = Spatial Diversity Multiplexing – MIMO function
CDD = Cyclic Delay Diversity - 2Tx Function

3. The device supports the following data rates (shown in Mbps):

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MCS Index	Spatial Stream	OFDMA (802.11ax)																	
		26T			52T			106T			242T			484T			996T		
HE		0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI
0	1	0.9	0.8	0.8	1.8	1.7	1.5	3.8	3.5	3.2	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6
1	1	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3
2	1	2.6	2.5	2.3	5.3	5	4.5	11.3	10.6	9.6	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9
3	1	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5
4	1	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8
5	1	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245
6	1	7.9	7.5	6.8	15.9	15	13.5	33.8	31.9	28.7	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6
7	1	8.8	8.3	7.5	17.6	16.7	15	37.5	35.4	31.9	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3
8	1	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5
9	1	11.8	11.1	10	23.5	22.2	20	50	47.2	42.5	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3
10	1	13.2	12.5	11.3	26.5	25	22.5	56.3	53.1	47.8	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4
11	1	14.7	13.9	12.5	29.4	27.8	25	62.5	59	53.1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4
	1	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3
	1	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5
0	2	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3
1	2	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5
2	2	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8
3	2	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245
4	2	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5
5	2	14.1	13.3	12	28.2	26.7	24	60	56.7	51	137.6	130	117	275.3	260	234	576.5	544.4	490
6	2	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3
7	2	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5
8	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	864.7	816.7	735
9	2	23.5	22.2	20	47.1	44.4	40	100	94.4	85	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7
10	2	26.5	25	22.5	52.9	50	45	112.5	106.3	95.6	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8
11	2	29.4	27.8	25	58.8	55.6	50	125	118.1	106.3	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8
	2	31.8	30	27	63.5	60	54	135	127.5	114.8	309.7	292.5	263.3	619.4	585	526.5	1297.1	1225	1102.5
	2	35.3	33.3	30	70.6	66.7	60	150	141.7	127.5	344.1	325	292.5	688.2	650	585	1441.2	1361.1	1225

Table 2-6. Supported Data Rates

4. The device supports either Standard Power (SP) or Low Power Indoor (LPI) or very low power (VLP) operation in the following UNII bands:

UNII Band	Standard Power (SP)	Low Power Indoor (LPI)	Very Low Power (VLP)
UNII 5	✓	✓	✓
UNII 6	×	✓	✓
UNII 7	✓	✓	✓
UNII 8	×	✓	✓

Table 2-7. Power Operation

✓= Support; × = NOT Support

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2.3 Antenna Description

The manufacturer provided the antenna gains which can affect the validity of test results used for determination of compliance. The following antenna gains are used in this device per the "Unlicensed Band Antenna Gain" document provided by the client. This document is also included in the filing as a public exhibit.

Frequency	Ant1 Peak Gain [dBi]	Ant2 Peak Gain [dBi]
5925 MHz	-6.65	-6.38
6025 MHz	-5.78	-4.07
6125 MHz	-5.51	-4.57
6225 MHz	-5.32	-5.30
6325 MHz	-5.27	-5.01
6425 MHz	-4.92	-5.46
6525 MHz	-5.35	-6.30
6625MHz	-5.44	-5.58
6725MHz	-5.59	-5.89
6825MHz	-6.31	-5.93
6925MHz	-6.15	-5.95
7025MHz	-5.85	-5.95
7125MHz	-5.81	-6.00

Table 2-8 Antenna Peak Gain per Frequency

	Ant1 Peak Gain [dBi]	Ant2 Peak Gain [dBi]	Directional Gain [dBi]
5925 – 6425 MHz	-4.92	-4.07	-1.47
6425 – 6525 MHz	-4.92	-5.46	-2.18
6525 – 6875 MHz	-5.35	-5.58	-2.45
6875 – 7125 MHz	-5.81	-5.95	-2.87

Table 2-9. Antenna Peak Gain

2.4 Test Configuration

ANSI C63.10:2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5 and 7.6 for antenna port conducted emissions test setups.

This device operates in the 5.925-7.125 GHz band when under control of an indoor access point or a low-power indoor access point (LPI Operation). Additionally, the device may operate in the 5.925-6.425 GHz and 6.525-6.875 GHz bands when under control of a standard power access point. Power for the EUT may vary depending on whether the device is connected to a standard access point (SP Operation). In cases where these targets differ two data sets have been provided to demonstrate compliance. The worst-case emissions data is shown in this report.

2.5 Software and Firmware

The test was conducted with firmware version A576U1UEU0AYK3 installed on the EUT.

2.6 EMI Suppression Device(s) / Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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3 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10:2020) and the guidance provided in KDB 987594 D02 v03 were used in the measurement of the EUT.

Deviation from measurement procedure……..…….....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF Enclosures. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are ETS Lindgren Model LRW-2030-S1 (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1-meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst-case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3-meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4:2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4:2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:
"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antennas of the EUT are **permanently attached.**
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

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5 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10:2020. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Contention Based Protocol Conducted Measurements	0.86
Conducted Bench Top Measurements	1.13
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 5-1. Measurement Uncertainty Budget

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6 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	MD 1M 40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 40
-	AP1-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP1-002
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	AP2-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-002
-	ETS-001	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-001
-	ETS-002	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-002
-	WL25-1	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-2
-	WL40-1	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-1
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
Anritsu	MA24408A	POWER SENSOR	2/11/2025	Annual	2/11/2026	12776
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
Espec	ESX-2CA	Environmental Chamber	11/20/2024	Biennial	11/20/2026	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
ETS-Lindgren	3164-05	Quad Ridge Horn (Small) 2 - 18GHz	6/4/2025	Biennial	6/4/2027	208255
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Keysight Technologies	N9020A	MXA Signal Analyzer	6/4/2025	Annual	6/4/2026	MY54500644
Keysight Technologies	N9030A	PXA Signal Analyzer	11/3/2025	Annual	11/3/2026	MY54490576
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/25/2025	Annual	3/25/2026	101716
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	12/31/2025	100342
Rohde & Schwarz	180-422-KF	Horn (18 - 40GHz)	10/9/2024	Biennial	10/9/2026	U157403-01
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Sunol	JB6	Bi-Log Antenna (30M - 5GHz)	3/24/2025	Biennial	3/24/2027	A082816

Table 6-1. Test Equipment Calibration Table

Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
Equipment listed with “N/A under calibration information was not used to make calibrated measurements.

Component	Serial Number
MegaPhase Cable TM26-S1S1-36	18160103 003
Pasternack 6dB Attenuator PE7005-6	N/A

Table 6-2. WL25-1 Conducted Cable Set Components

Component	Serial Number
MiniCircuirs Cable CBL-2FT-SMSM+	77743
MCL 6dB Attenuator BW-S6W2+	1314

Table 6-3. WL25-2 Conducted Cable Set Components

Component	Serial Number
MegaPhase Cable TM40K1K1-36	18160102 001
MCL 10dB Attenuator BW-K10 2W44+	1902

Table 6-4. WL40-1 Conducted Cable Set Components

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Component	Serial Number
Pasternack Cable RG214/U	111815
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001

Table 6-5. ETS-001 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20502201 001
Rohde & Schwarz SF Unit	102134
Minicircuits Cable CBL=0.5M-NMNM+	15440

Table 6-6. ETS-002 EMC Cable and Switch System Components

Component	Serial Number
Sucoflex 106A Cable	501992
MegaPhase Cable N29-N1N1-324	20335606 001
Rohde & Schwarz SF Unit	102133
MiniCircuits Cable CBL-2FT-SMSM+	77745
MegaPhase Cable 10511-1	15034701 001
MiniCircuits Switch RC 2SPDT-A18	11703270 041
Sucoflex 104 Cable	320259/4
Sucoflex 104 Cable	321999/4
Sucoflex 104 Cable	321995/4

Table 6-7. AP1-002 EMC Cable and Switch System Components

Component	Serial Number
Flex Cable	P2A-0001
Micro-Coax Utilfex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Chamber Passthrough	CP4/X12
Micro-Coax Utilfex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Micro-Coax Utiflex Cable UFB142A-0-0629-5GU200 MFR 6463	232069-001
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181

Table 6-8. AP2-001 EMC Cable and Switch System Components

Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utilfex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utilfex Cable UFB311A-1-0629-50U50U MFR 64639	231986-002
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	19046401 001
Megaphase (CAGE 1GVT4) Flex Cable 10511-1	15044701-006
Micro-Coax Utiflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-002
Micro-Coax Utilfex Cable UFB311A-1-0629-50U50U MFR 64639	231986-004
Micro-Coax Utiflex Cable UFB142A-0-0629-5GU200 MFR 64639	232069-001
Rohde & Schwarz SF Unit	102138
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181
Micro-Coax Utilfex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
· Micro-Coax Utilfex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335

Table 6-9. AP2-002 EMC Cable and Switch System Components

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Component	Serial Number
MegaPhase Cable TM40-K1K1-30	20233002-004
UTIPLEX Cable	64639 232063-001
Rohde & Schwarz Pre-amp RS-PR1840 18G-40G	9037.7670.02

Table 6-10. MD 1M 18-40 EMC Cable and Switch System Components

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7 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
FCC ID: A3LSMA576U
IC: 649E-SMA576W
FCC Classification: 15E 6GHz Low Power Dual Client (6CD)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1046, 15.407(a)(12)	RSS-248(4.5)	Maximum Conducted Output Power	N/A	CONDUCTED	PASS	Section 7.3
15.407(a)(8), 15.407(a)(7)	RSS-248(4.5)	Maximum Radiated Output Power	< 24dBm over the frequency band of operation <30dBm over the frequency band of operation when connecting to a standard power access point		PASS	Section 7.3
2.1049, 15.407(a)(11)	RSS-248(4.4)	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.		PASS	Section 7.2
15.407(a)(8), 15.407(a)(7)	RSS-248(4.5)	Maximum Power Spectral Density	< -1dBm/MHz e.i.r.p. <17dBm/MHz when operating with a standard power access point		PASS	Section 7.4
15.407(b)(7)	RSS-248(4.6)	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(6)		PASS	Section 7.5
15.407(d)(6)	RSS-248(4.7)	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty	RADIATED	PASS	See CBP Supplemental Report
15.407(a)(7)	RSS-248 [4.5.5]	Power Reduction Verification for standard client device	EUT must limit its power to no more than 6dB below its associated standard power access point's authorized transmit power. EUT must distinguish its associated access point as standard or low power and control its power levels accordingly.		PASS	See AFC PRV Supplemental Report
15.407(b)(6)	RSS-248(4.6)	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band		PASS	Section 7.6
15.205, 15.209	RSS-Gen (8.9)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS	Section 7.6
15.407	RSS-Gen (8.8)	AC Conducted Emissions 150kHz – 30MHz	<FCC 15.207 limits	LINE CONDUCTED	PASS	Please see 6CD OFDM report

Table 7-1. Summary of Test Results

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Notes:

1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "EMC Software Tool" Version 2.3.0.
5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 1.3.1.
6) Per 15.407(a)(7), a device operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands must not have the maximum power spectral density exceed 17 dBm/MHz e.i.r.p., must limit the maximum e.i.r.p. over the frequency band of operation not exceed 30 dBm, and must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
7) 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
8) Only one RU index could be selected at a time, so no contiguous or non-contiguous RUs were considered for testing.

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7.2 26dB Bandwidth Measurement

Test Overview and Limit

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

Test Procedure Used

ANSI C63.10:2020 – Section 12.5

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth
3. VBW $\geq$ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

Figure 7-1. Test Instrument & Measurement Setup

Test Notes

All cases were investigated; a subset of the taken plots were included to represent relevant settings and measurements.

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	5935	2	ax (20MHz)	20.77	21.07	18.73	18.83
	6175	45	ax (20MHz)	20.85	21.23	18.94	19.00
	6415	93	ax (20MHz)	20.82	21.30	18.96	18.86
	5965	3	ax (40MHz)	23.77	23.76	21.35	21.46
	6165	43	ax (40MHz)	23.68	23.16	21.15	21.60
	6405	91	ax (40MHz)	23.94	27.04	21.66	21.76
	5985	7	ax (80MHz)	26.88	26.46	24.17	21.88
	6145	39	ax (80MHz)	25.78	26.76	21.63	22.08
	6385	87	ax (80MHz)	25.69	27.09	24.38	22.12
Band 6	6435	97	ax (20MHz)	21.24	21.32	19.03	18.83
	6475	105	ax (20MHz)	21.26	20.84	18.91	18.98
	6515	113	ax (20MHz)	21.35	21.01	18.83	18.98
	6445	99	ax (40MHz)	24.56	23.73	21.44	21.88
	6485	107	ax (40MHz)	24.13	23.61	21.39	22.00
	6525	115	ax (40MHz)	25.66	23.98	21.56	21.85
	6465	103	ax (80MHz)	26.46	26.30	23.40	21.99
Band 7	6535	117	ax (20MHz)	21.28	21.06	19.00	18.99
	6695	149	ax (20MHz)	20.77	20.98	18.82	18.80
	6875	185	ax (20MHz)	20.95	21.11	19.01	18.93
	6565	123	ax (40MHz)	24.10	24.18	21.62	21.78
	6725	155	ax (40MHz)	24.19	23.55	21.41	21.49
	6845	179	ax (40MHz)	25.99	23.94	21.21	21.64
	6545	119	ax (80MHz)	25.84	27.68	23.42	22.10
	6705	151	ax (80MHz)	26.30	27.00	23.62	22.54
	6865	183	ax (80MHz)	27.28	26.91	24.38	22.48
Band 8	6895	189	ax (20MHz)	21.16	20.85	18.94	18.84
	6995	209	ax (20MHz)	20.83	21.14	19.00	18.90
	7115	233	ax (20MHz)	21.26	20.75	18.95	19.03
	6885	187	ax (40MHz)	24.01	24.95	21.24	21.84
	7005	211	ax (40MHz)	23.42	23.80	21.24	21.51
	7085	227	ax (40MHz)	23.69	23.83	21.80	21.65
	6945	199	ax (80MHz)	26.54	26.20	24.32	22.48
	7025	215	ax (80MHz)	26.17	28.70	28.82	22.69

Table 7-2. 26dB Bandwidth Results – 26 Tones – LPI

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	5935	2	ax (20MHz)	24.28	24.83	19.52	19.49
	6175	45	ax (20MHz)	25.87	23.42	19.39	19.38
	6415	93	ax (20MHz)	25.27	23.23	19.38	19.30
	5965	3	ax (40MHz)	44.91	44.08	39.46	39.60
	6165	43	ax (40MHz)	44.89	44.46	39.31	39.66
	6405	91	ax (40MHz)	45.83	46.13	39.35	39.27
	5985	7	ax (80MHz)	93.95	96.52	78.58	78.52
	6145	39	ax (80MHz)	90.90	92.64	78.39	78.45
	6385	87	ax (80MHz)	87.77	96.14	78.36	78.71
Band 6	6435	97	ax (20MHz)	24.02	23.78	19.39	19.43
	6475	105	ax (20MHz)	24.74	23.33	19.53	19.44
	6515	113	ax (20MHz)	24.74	24.11	19.57	19.37
	6445	99	ax (40MHz)	45.00	44.40	39.19	39.54
	6485	107	ax (40MHz)	44.53	44.42	39.32	39.15
	6525	115	ax (40MHz)	44.07	44.07	39.01	39.57
	6465	103	ax (80MHz)	87.96	95.06	78.53	78.50
Band 7	6535	117	ax (20MHz)	24.18	24.20	19.46	19.37
	6695	149	ax (20MHz)	24.37	23.47	19.43	19.43
	6875	185	ax (20MHz)	24.81	24.35	19.48	19.39
	6565	123	ax (40MHz)	44.87	44.74	39.27	39.42
	6725	155	ax (40MHz)	45.36	44.40	39.18	39.39
	6845	179	ax (40MHz)	44.42	44.35	39.32	39.70
	6545	119	ax (80MHz)	93.60	94.59	78.63	78.60
	6705	151	ax (80MHz)	89.42	94.13	78.52	78.36
	6865	183	ax (80MHz)	93.61	97.99	78.51	78.44
Band 8	6895	189	ax (20MHz)	23.43	23.47	19.37	19.41
	6995	209	ax (20MHz)	24.72	23.44	19.46	19.40
	7115	233	ax (20MHz)	24.02	24.00	19.42	19.40
	6885	187	ax (40MHz)	44.88	45.02	39.28	39.52
	7005	211	ax (40MHz)	45.29	45.29	39.40	39.47
	7085	227	ax (40MHz)	44.15	44.94	39.36	39.27
	6945	199	ax (80MHz)	97.56	93.38	78.44	78.45
	7025	215	ax (80MHz)	90.08	94.04	78.66	78.34

Table 7-3. 26dB Bandwidth Results – Full Tones – LPI

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	5935	2	ax (20MHz)	21.13	21.02	18.81	18.80
	6175	45	ax (20MHz)	20.86	20.76	18.85	18.88
	6415	93	ax (20MHz)	20.91	20.86	18.99	18.80
	5965	3	ax (40MHz)	24.22	23.40	20.94	21.00
	6165	43	ax (40MHz)	24.15	23.70	21.09	21.03
	6405	91	ax (40MHz)	24.57	23.70	21.33	20.98
	5985	7	ax (80MHz)	28.59	27.62	22.02	22.64
	6145	39	ax (80MHz)	28.96	28.67	22.22	23.06
	6385	87	ax (80MHz)	30.66	27.53	22.28	23.37
Band 7	6535	117	ax (20MHz)	21.06	20.95	18.81	18.72
	6695	149	ax (20MHz)	20.58	20.85	18.84	18.88
	6855	181	ax (20MHz)	20.67	20.63	18.72	18.73
	6565	123	ax (40MHz)	23.56	24.09	20.89	21.08
	6725	155	ax (40MHz)	24.10	23.71	21.10	20.78
	6845	179	ax (40MHz)	26.43	23.74	21.11	20.81
	6625	135	ax (80MHz)	26.38	26.70	22.37	23.15
	6705	151	ax (80MHz)	25.81	26.60	22.05	23.07
	6785	167	ax (80MHz)	26.51	28.07	21.95	22.81

Table 7-4. 26dB Bandwidth Results – 26 Tones – SP

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	5935	2	ax (20MHz)	25.08	23.92	19.59	19.56
	6175	45	ax (20MHz)	25.56	23.77	19.40	19.39
	6415	93	ax (20MHz)	25.13	24.35	19.56	19.38
	5965	3	ax (40MHz)	44.66	44.31	39.03	39.54
	6165	43	ax (40MHz)	43.85	46.55	39.38	39.47
	6405	91	ax (40MHz)	44.69	44.85	39.39	39.42
	5985	7	ax (80MHz)	97.28	96.35	78.52	78.42
	6145	39	ax (80MHz)	91.28	96.47	78.55	78.50
	6385	87	ax (80MHz)	91.44	95.76	78.71	78.70
Band 7	6535	117	ax (20MHz)	24.65	23.51	19.41	19.56
	6695	149	ax (20MHz)	24.50	23.80	19.49	19.49
	6855	181	ax (20MHz)	25.10	23.48	19.48	19.44
	6565	123	ax (40MHz)	45.11	44.89	39.18	39.48
	6725	155	ax (40MHz)	44.41	45.10	39.32	39.36
	6845	179	ax (40MHz)	46.43	44.83	39.31	39.44
	6625	135	ax (80MHz)	88.93	97.11	78.72	78.60
	6705	151	ax (80MHz)	91.03	96.62	78.60	78.36
	6785	167	ax (80MHz)	89.21	95.19	78.35	78.23

Table 7-5. 26dB Bandwidth Results – Full Tones – SP

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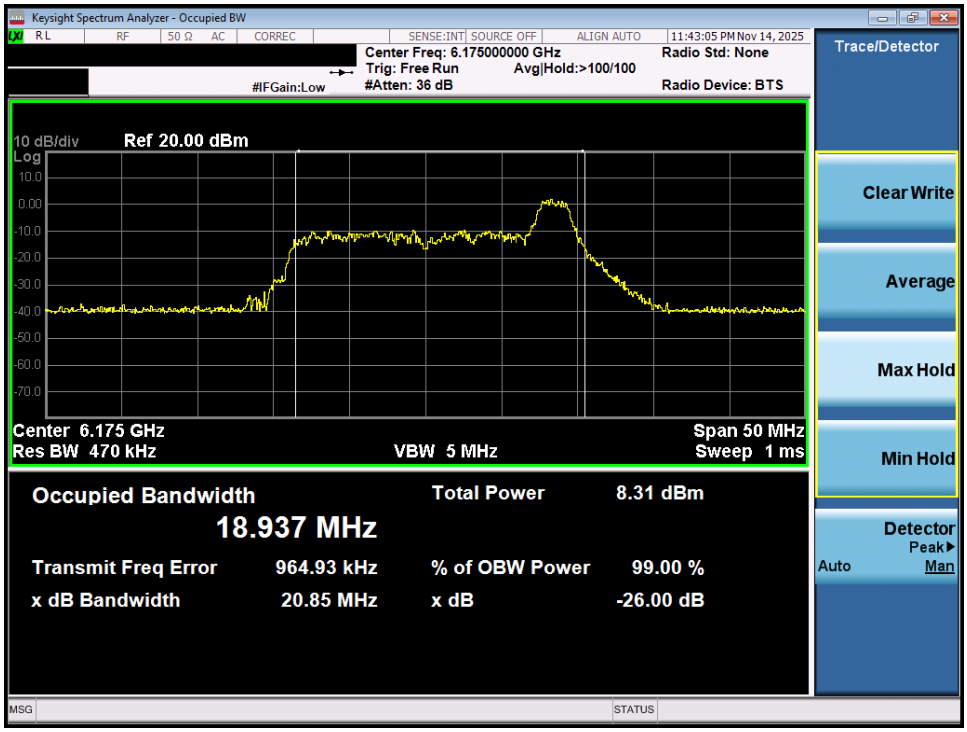
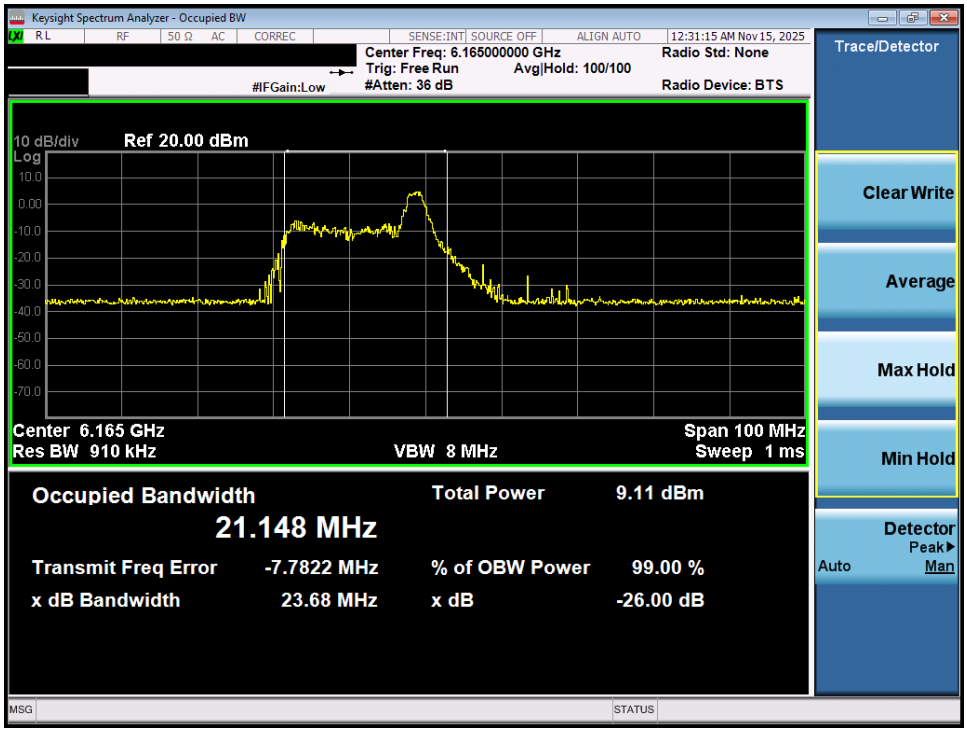
7.2.1 MIMO Antenna-1 Bandwidth Measurements - (Partial Tones)



Plot 7-1. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - LPI

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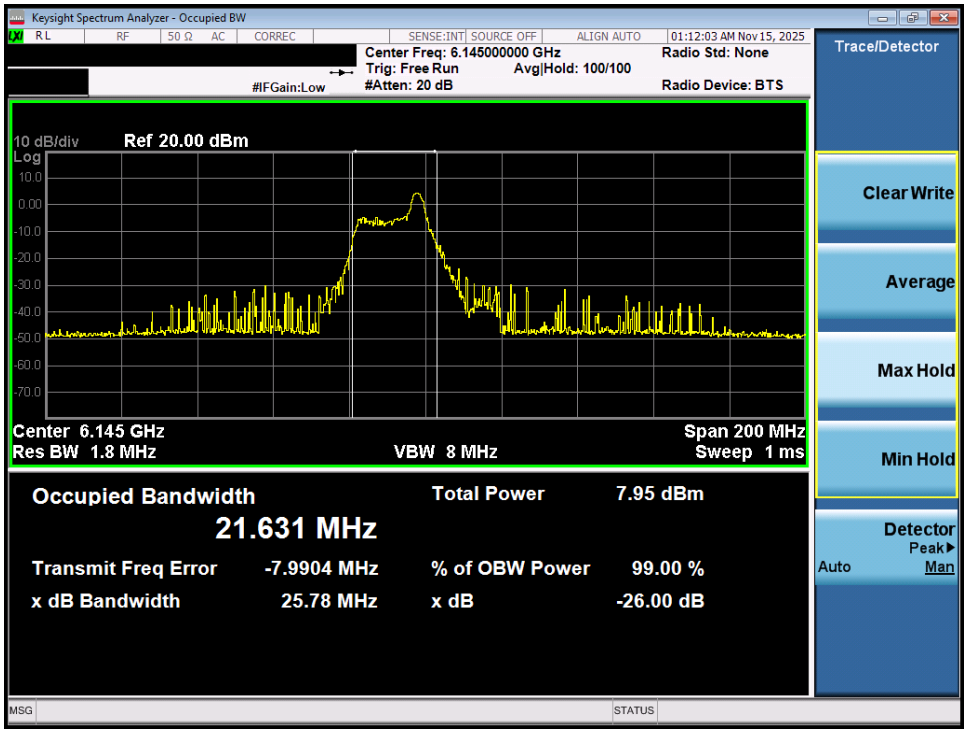
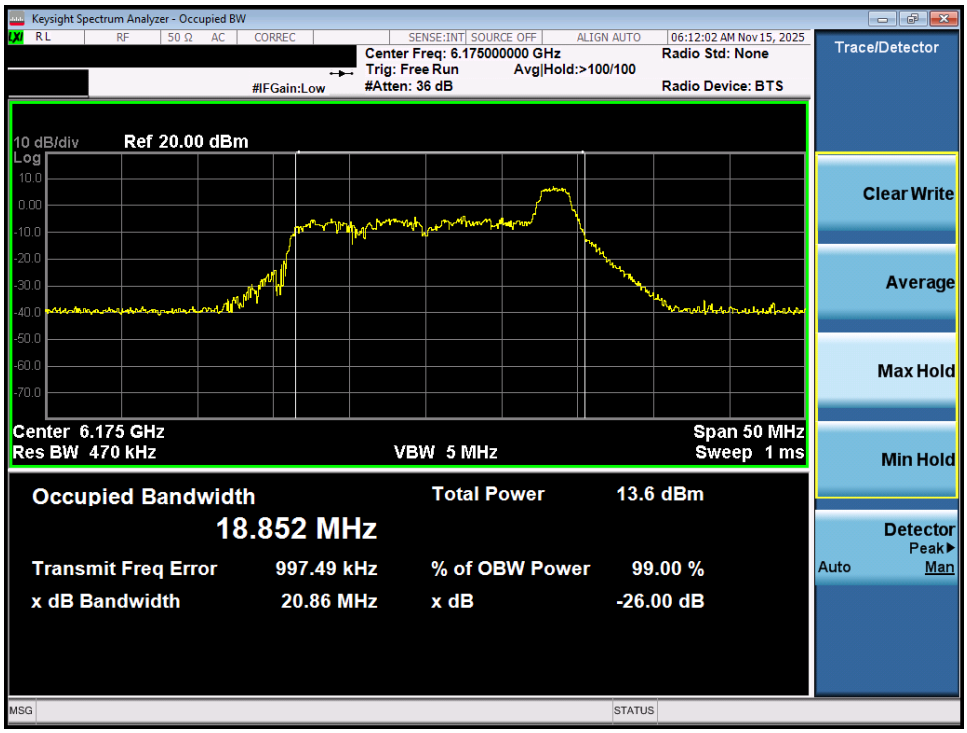


Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) – LPI



Plot 7-4. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) – SP

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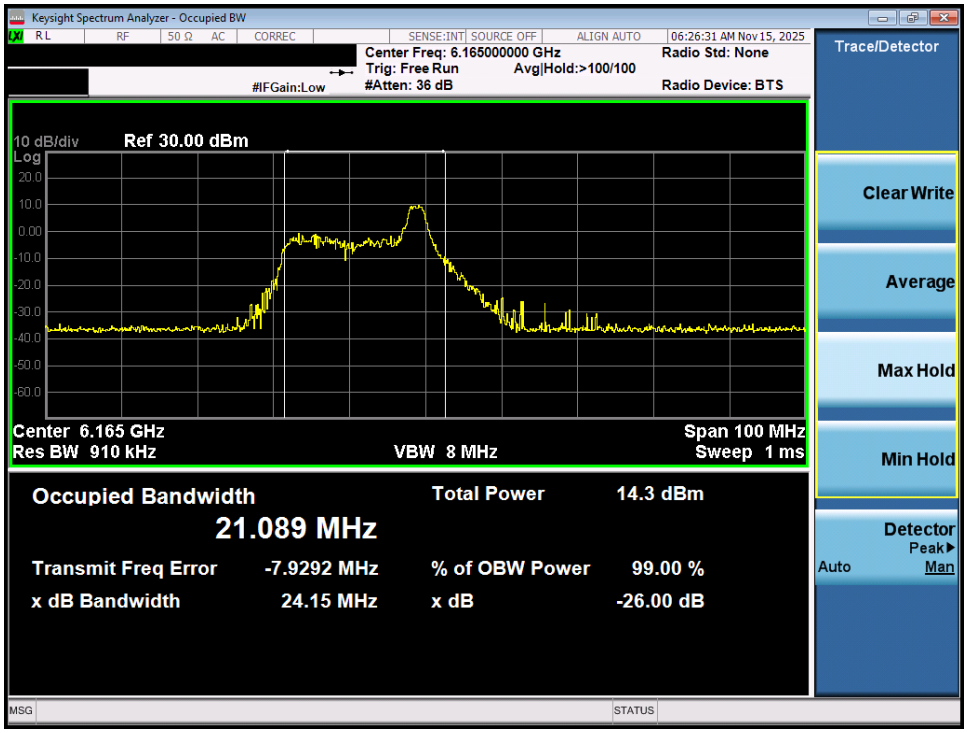
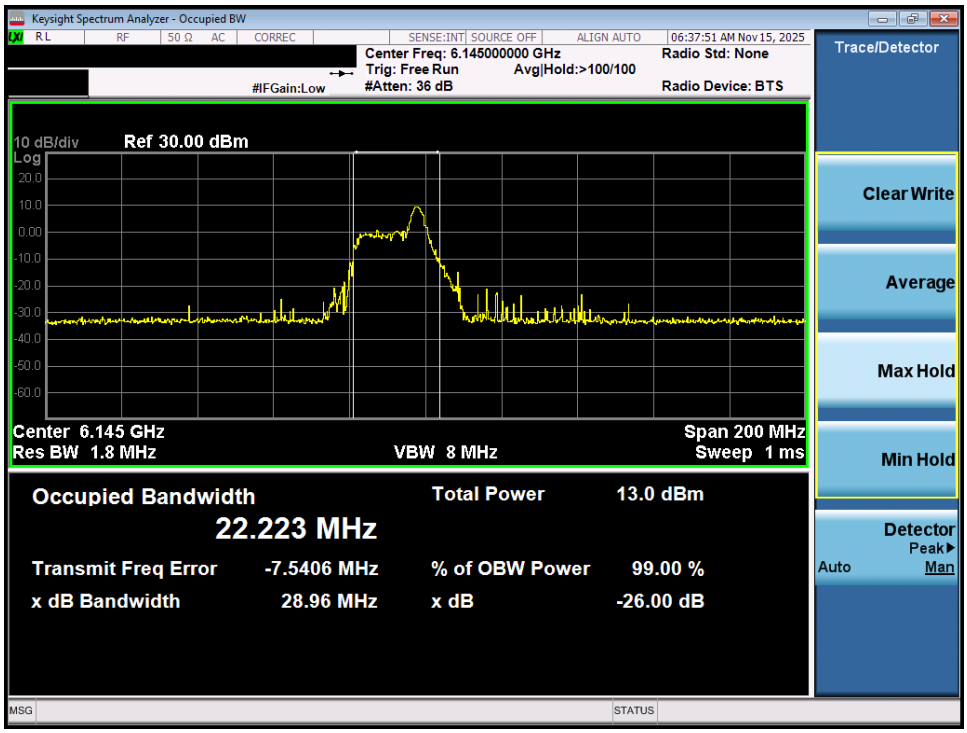


Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - SP



Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - SP

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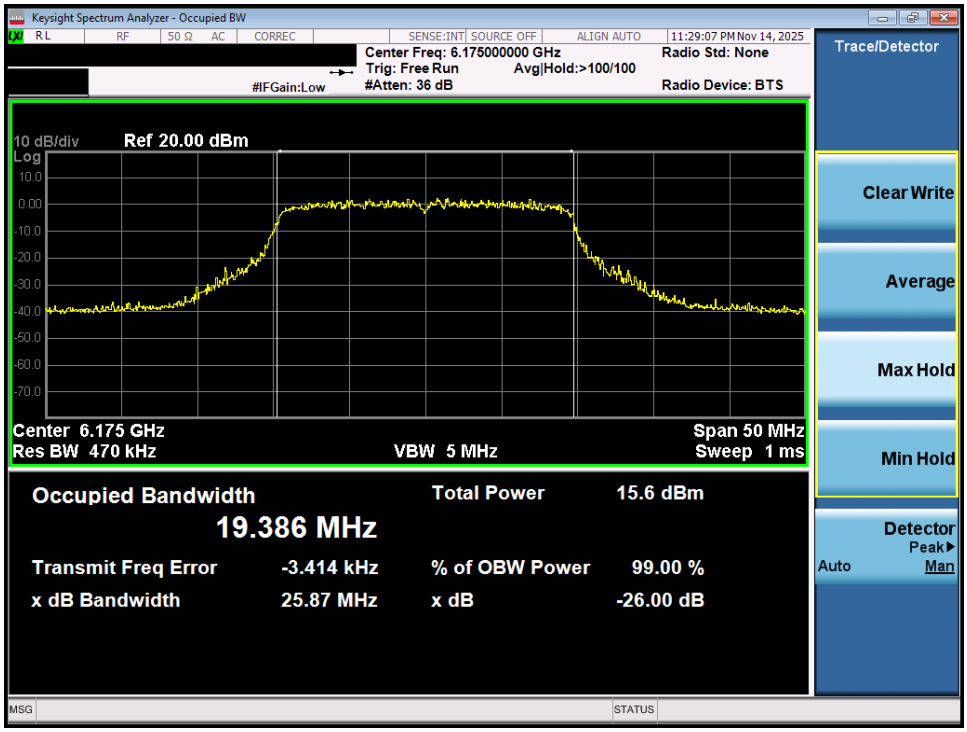
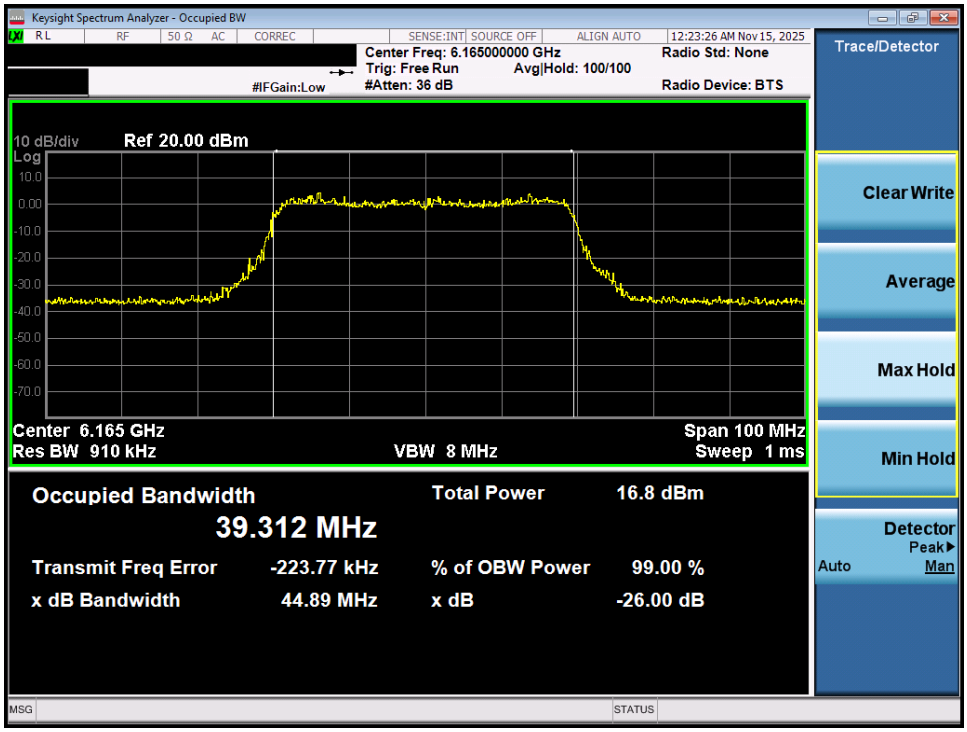
7.2.2 MIMO Antenna-1 Bandwidth Measurements - (Full Tones)



Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) – LPI



Plot 7-8. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - LPI

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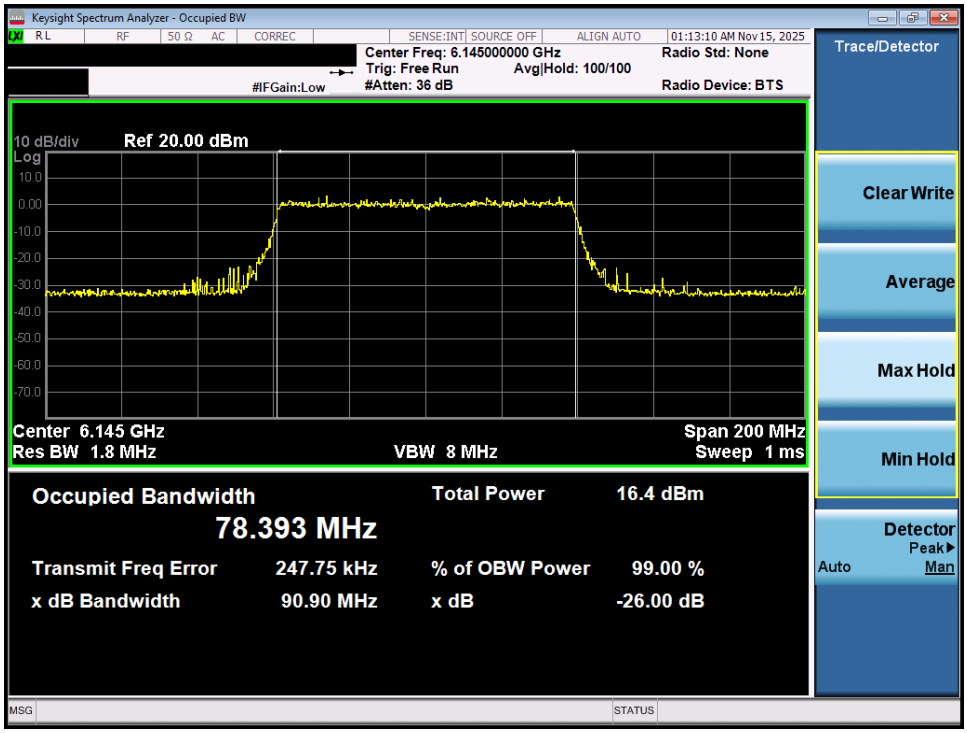
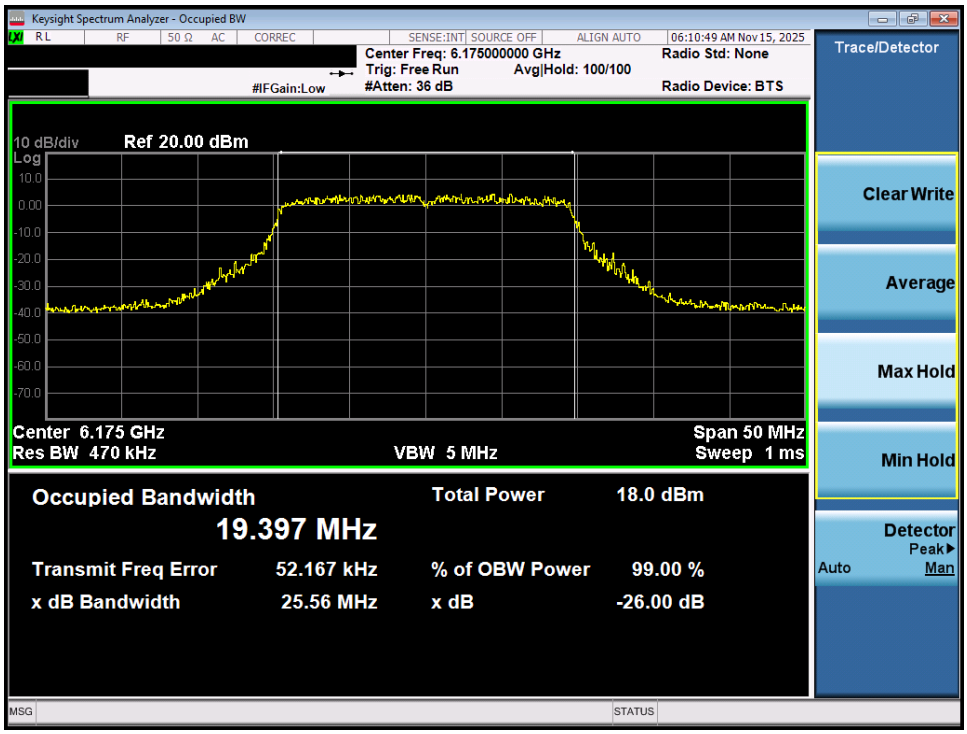


Plot 7-9. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-10. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - SP

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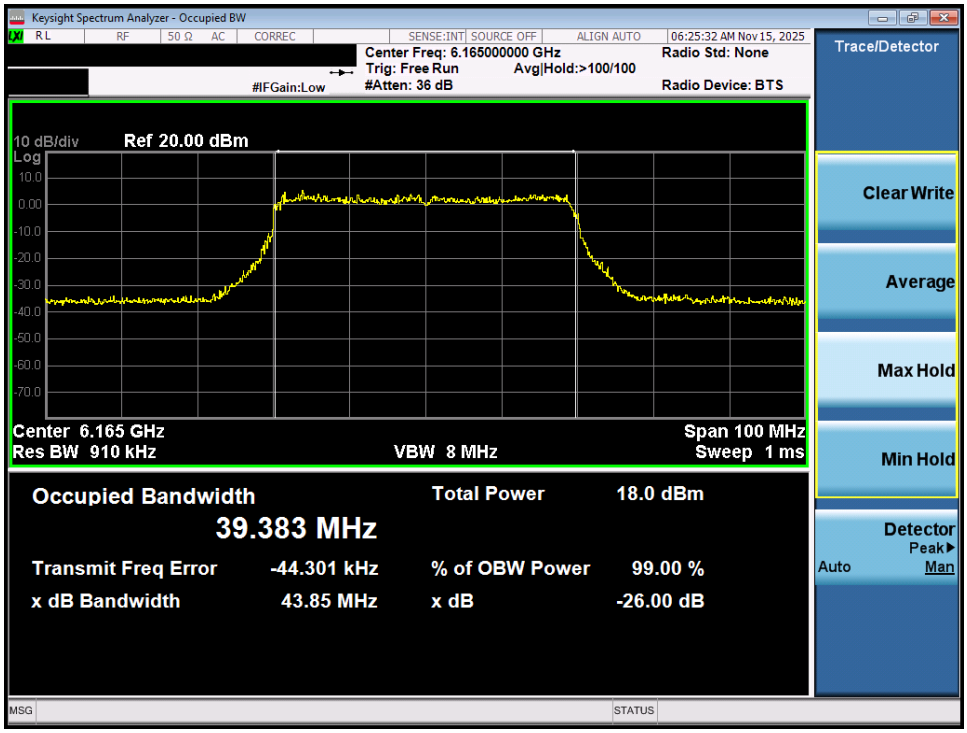
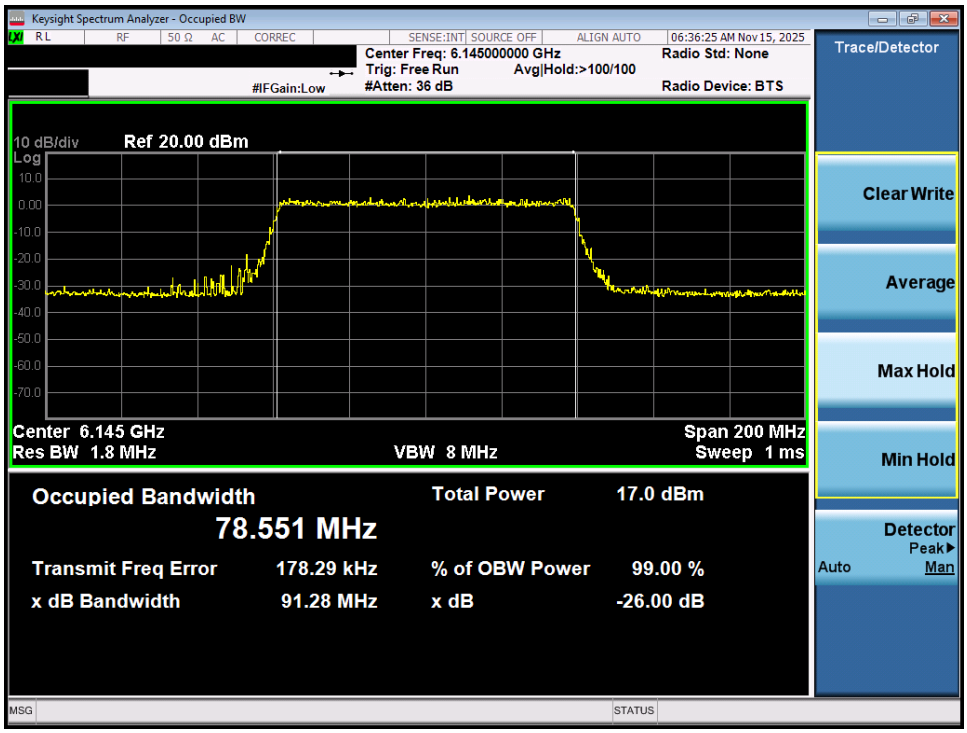


Plot 7-11. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) – SP



Plot 7-12. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - SP

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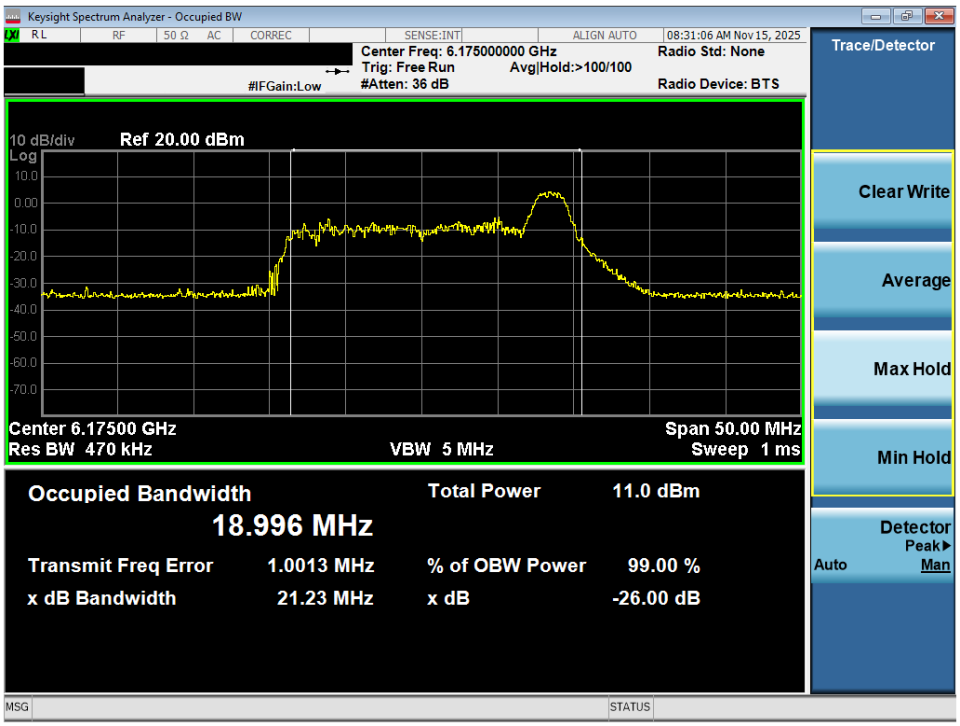
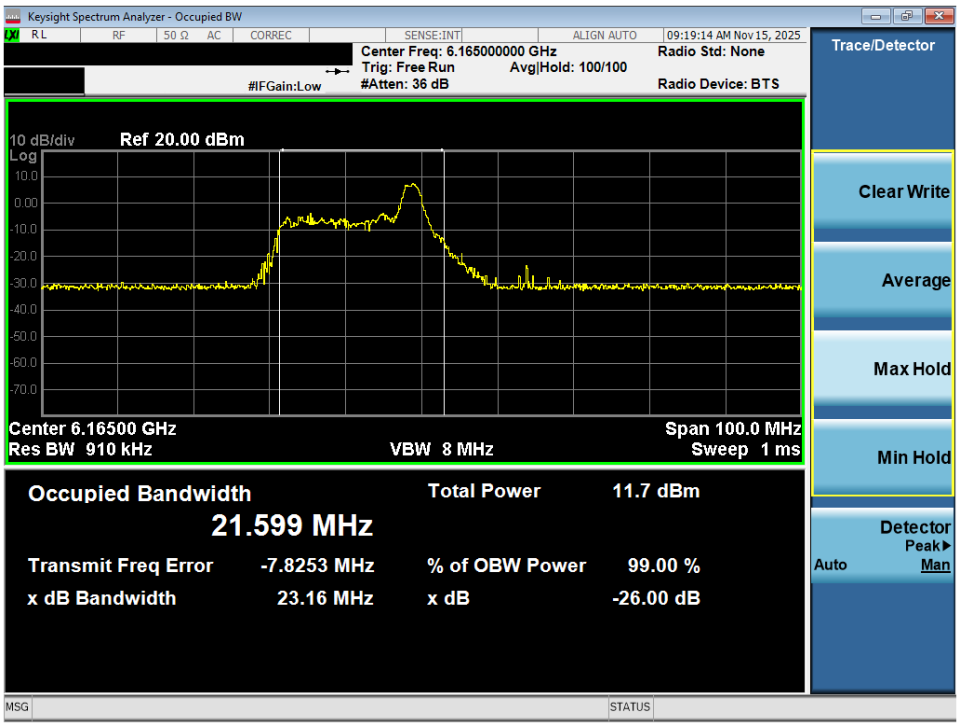
7.2.3 MIMO Antenna-2 Bandwidth Measurements – (Partial Tones)



Plot 7-13. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-14. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - LPI

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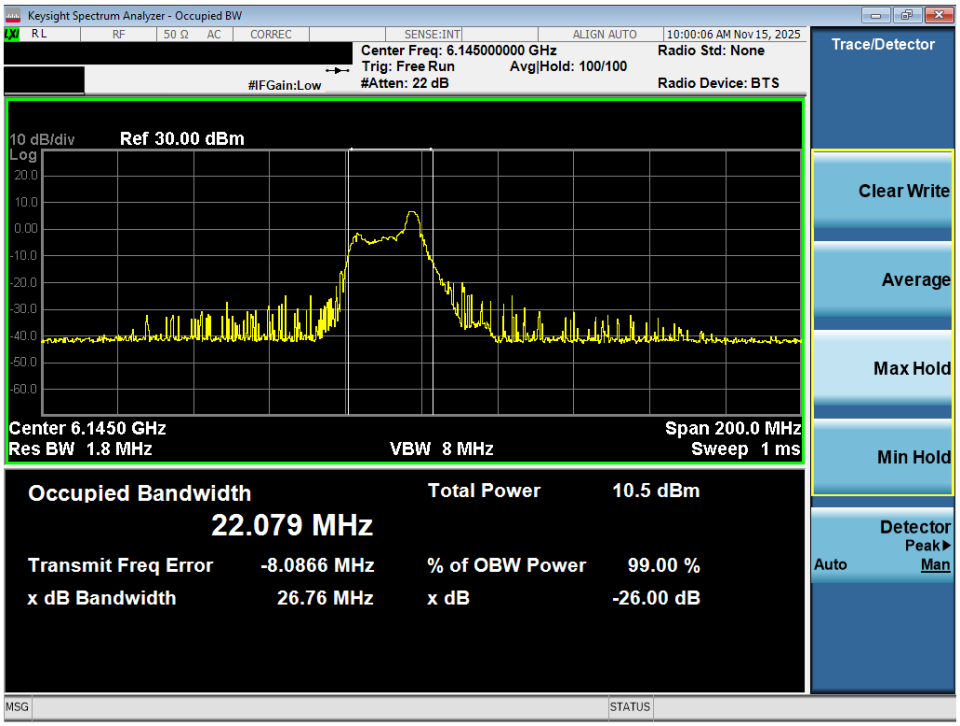
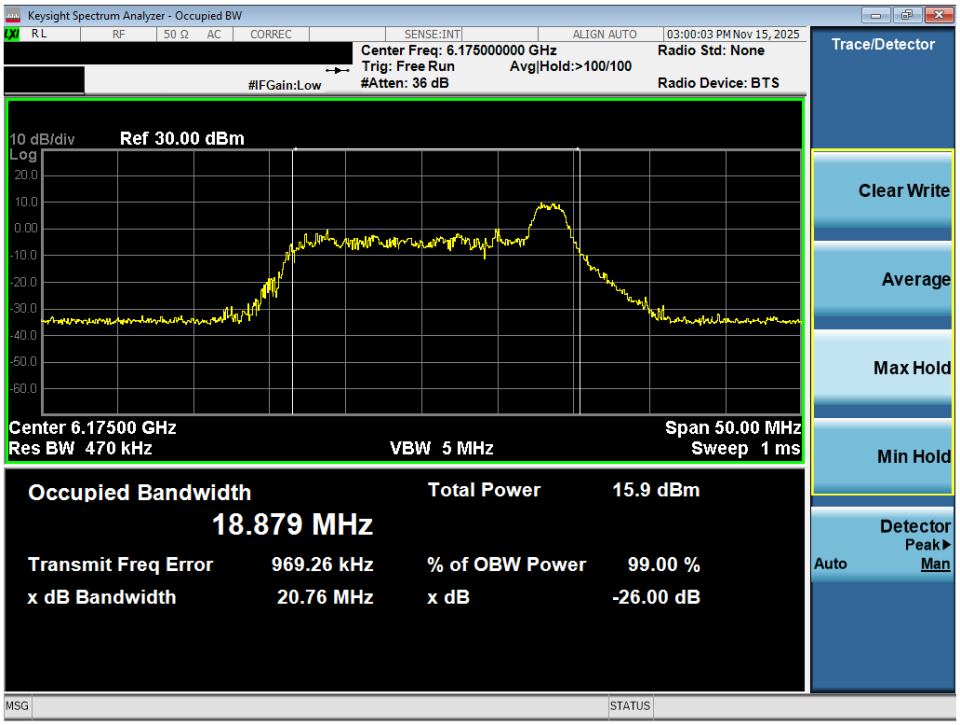


Plot 7-15. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-16. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - SP

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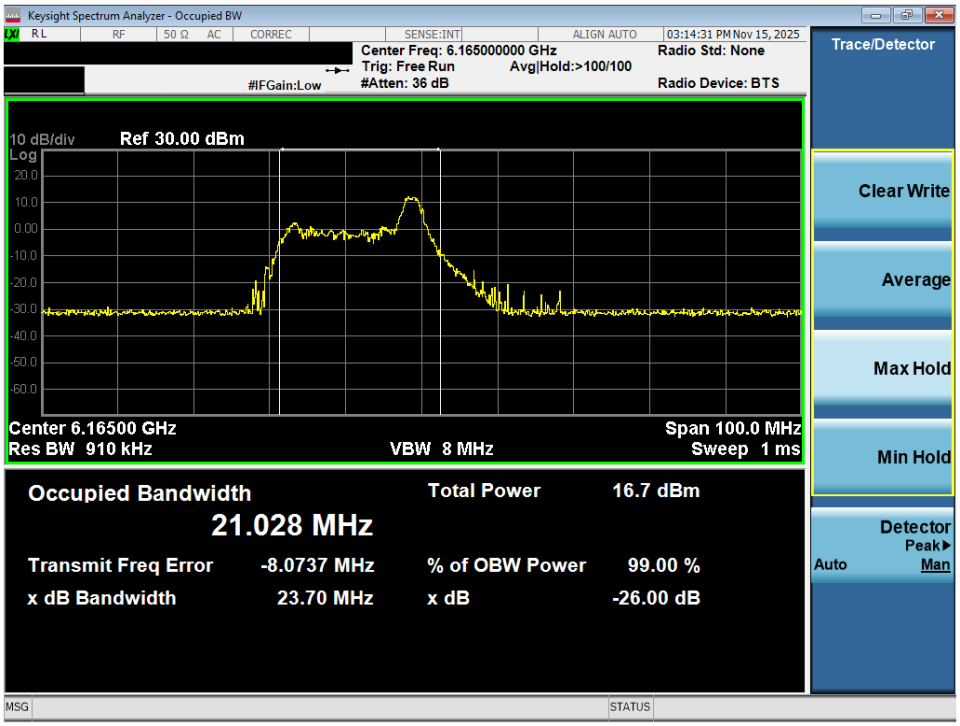
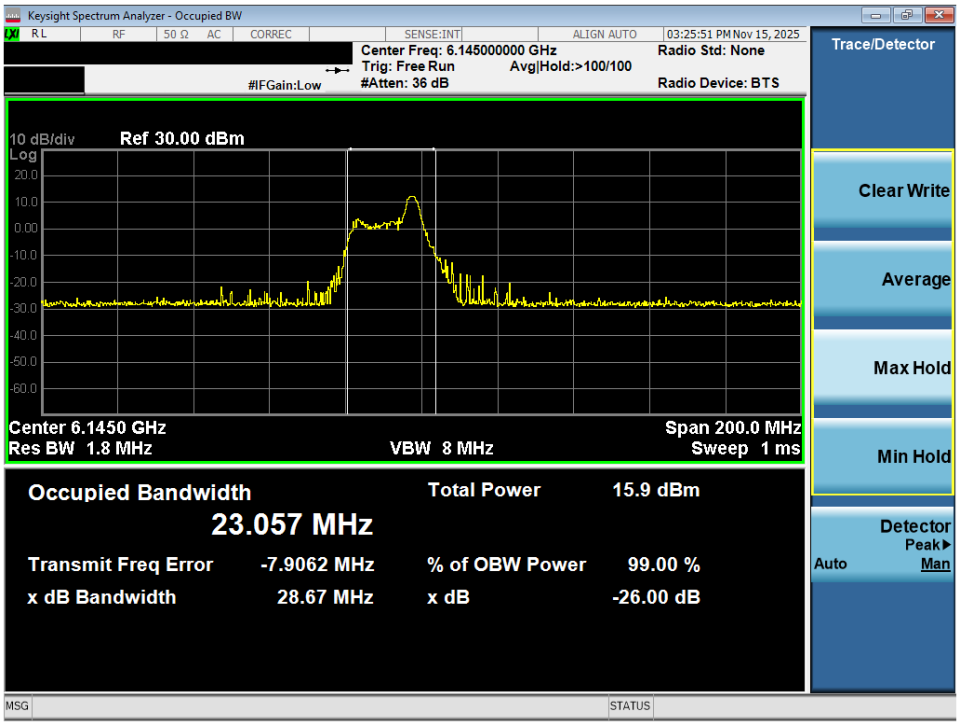


Plot 7-17. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - SP



Plot 7-18. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - SP

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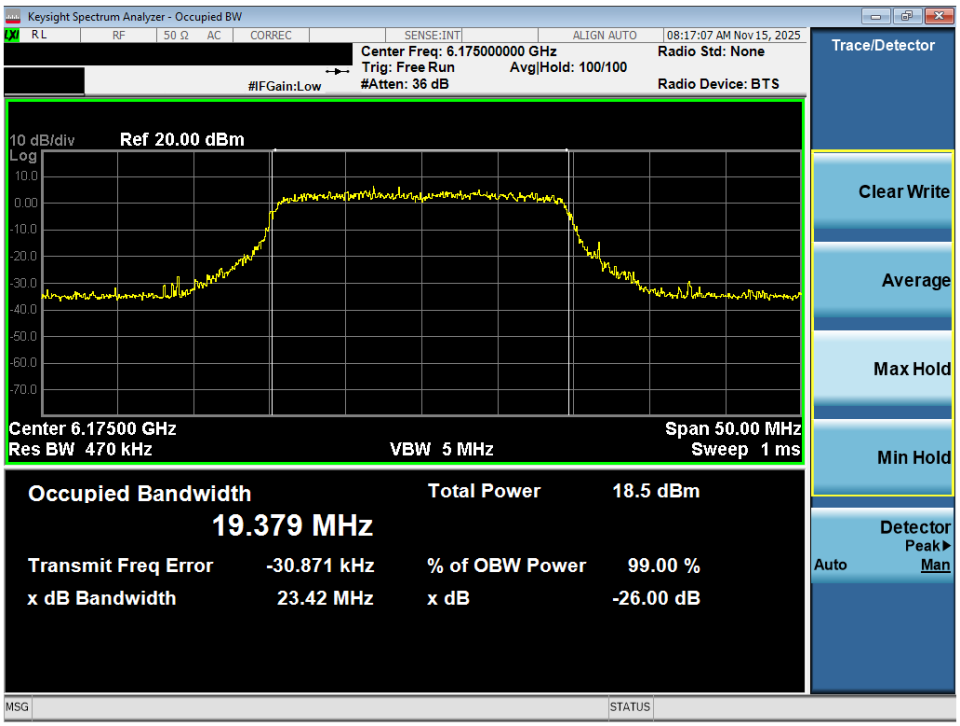
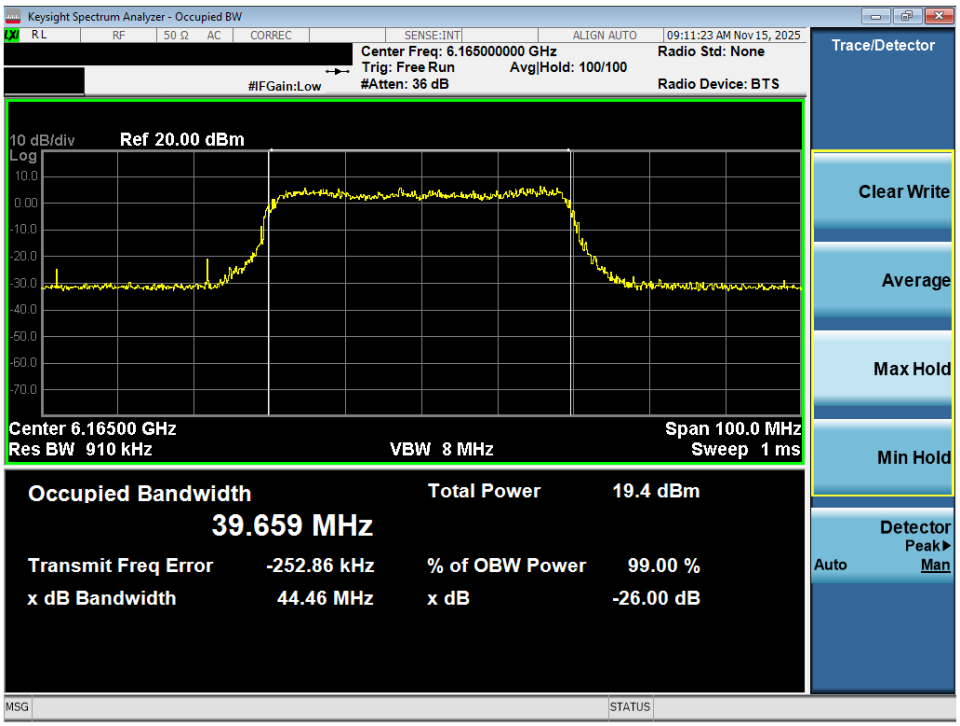
7.2.4 MIMO Antenna-2 Bandwidth Measurements – (Full Tones)



Plot 7-19. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-20. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - LPI

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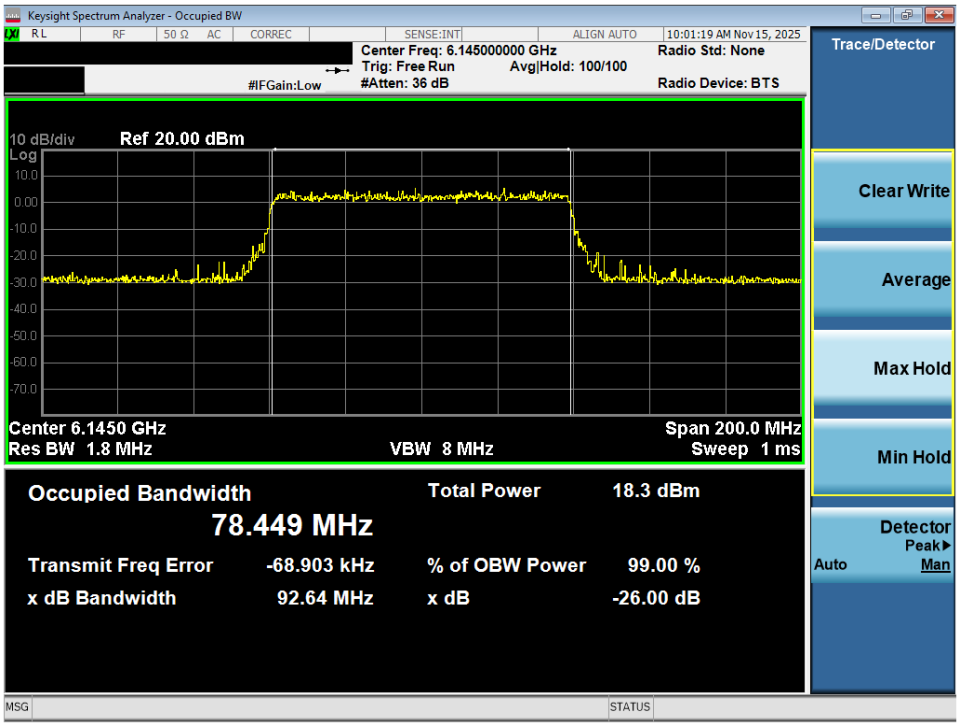
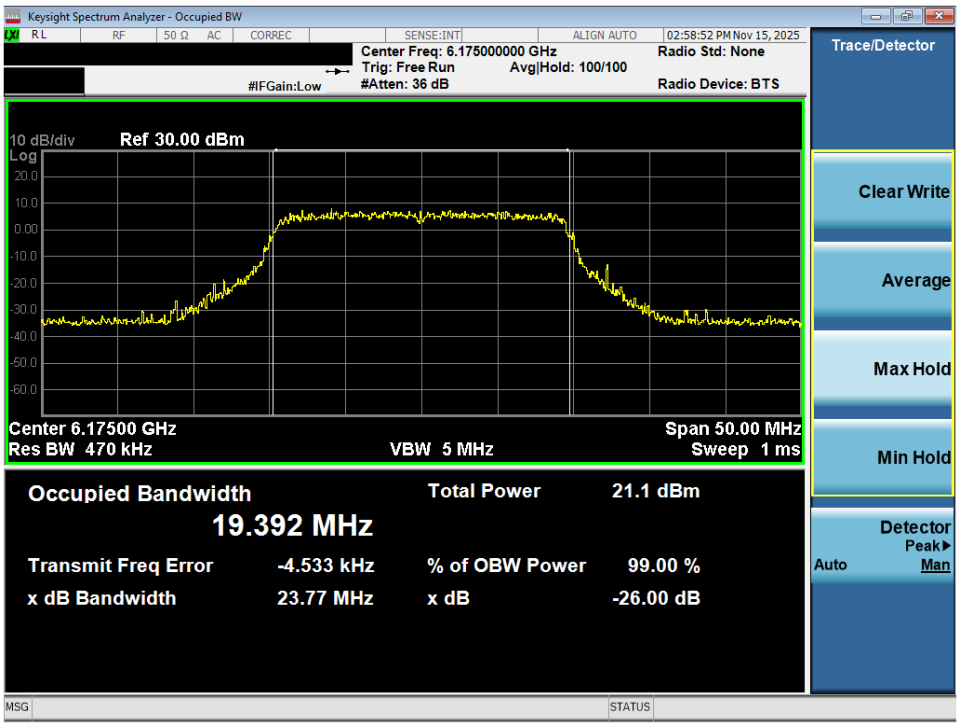


Plot 7-21. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-22. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - SP

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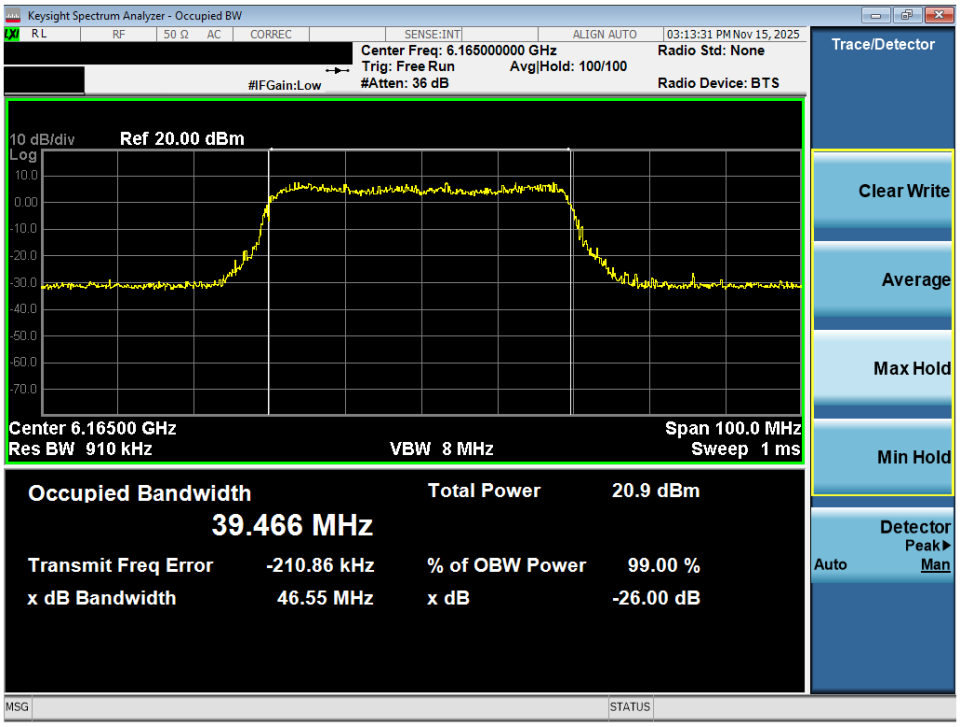
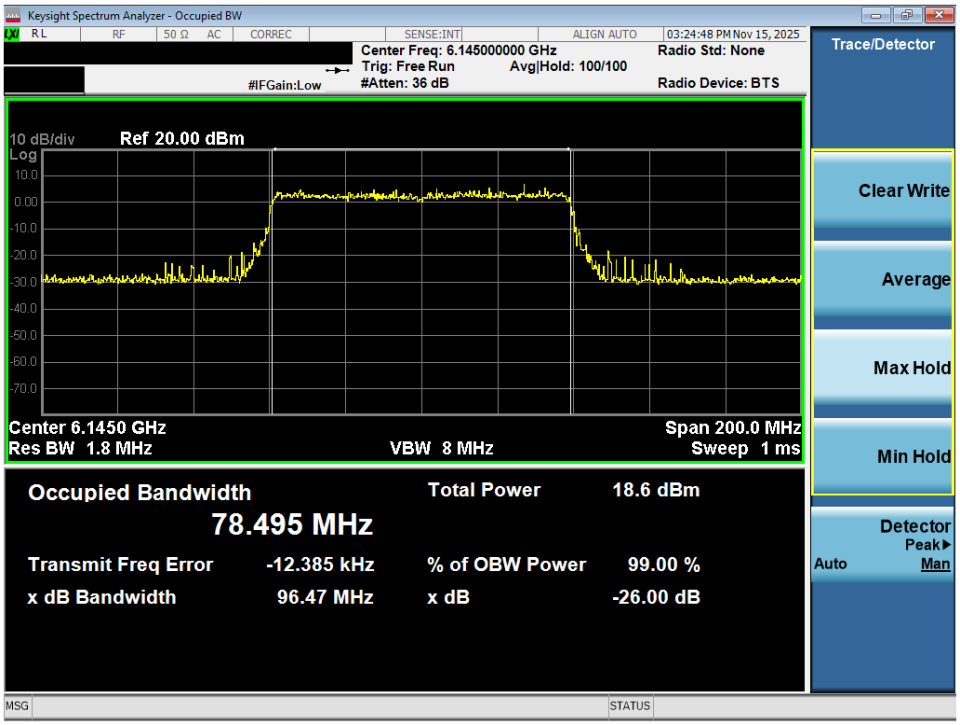


Plot 7-23. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) – SP



Plot 7-24. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - SP

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7.3 UNII Output Power Measurement

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies.

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm. For client devices operating under the control of a standard power access point, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

Test Procedure Used

ANSI C63.10:2020 – Section 12.4.3.2 Method PM-G
ANSI C63.10:2020 – Section 14.5.2.3 Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

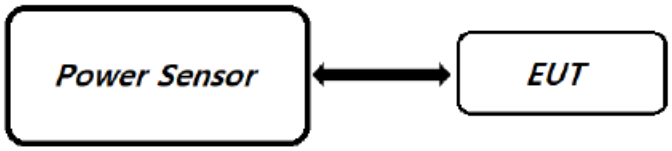

Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

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MIMO Maximum Conducted Output Power Measurements (26 Tones)

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index												
					0			4			8						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
20MHz BW	5	5935	2	26T	-3.60	-0.30	1.37	-3.20	0.10	1.77	-3.70	-0.40	1.27	-1.47	0.29	24.00	-23.71
		6175	45	26T	-2.60	-0.40	1.65	-2.60	-0.50	1.59	-2.70	-0.65	1.46	-1.47	0.17	24.00	-23.83
		6415	93	26T	-3.10	-0.20	1.60	-2.80	-0.10	1.77	-3.40	-0.30	1.43	-1.47	0.29	24.00	-23.71
	6	6435	97	26T	-2.70	-0.80	1.36	-2.90	-0.35	1.57	-2.60	-0.85	1.37	-2.18	-0.61	24.00	-24.61
		6475	105	26T	-2.90	-0.70	1.35	-2.80	-0.45	1.54	-3.01	-0.25	1.60	-2.18	-0.58	24.00	-24.58
		6515	113	26T	-2.70	-0.70	1.42	-2.51	-0.15	1.84	-3.10	-0.40	1.47	-2.18	-0.34	24.00	-24.34
	7	6535	117	26T	-2.80	-0.10	1.77	-2.55	0.30	2.12	-3.20	0.10	1.77	-2.45	-0.34	24.00	-24.34
		6695	149	26T	-3.20	-0.40	1.43	-2.80	-0.35	1.61	-3.10	-0.20	1.60	-2.45	-0.85	24.00	-24.85
		6875	185	26T	-3.10	0.01	1.74	-2.90	0.20	1.93	-3.25	-0.01	1.68	-2.45	-0.52	24.00	-24.52
	8	6895	189	26T	-2.70	-0.30	1.67	-2.55	-0.15	1.82	-2.55	-0.15	1.82	-2.87	-1.05	24.00	-25.05
		6995	209	26T	-2.51	0.20	2.06	-2.75	0.40	2.11	-2.60	-0.10	1.84	-2.87	-0.75	24.00	-24.75
		7115	233	26T	-2.51	0.40	2.19	-2.51	0.30	2.13	-2.70	-0.10	1.80	-2.87	-0.67	24.00	-24.67

Table 7-6. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index												
					0			4			8						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
20MHz BW	5	5935	2	26T	0.70	3.20	5.14	0.75	4.05	5.72	0.25	3.80	5.39	-1.47	4.24	30.00	-25.76
		6175	45	26T	3.99	6.00	8.12	3.99	6.35	8.34	3.99	6.10	8.18	-1.47	6.86	30.00	-23.14
		6415	93	26T	3.35	5.60	7.63	3.75	6.50	8.35	3.30	5.80	7.74	-1.47	6.88	30.00	-23.12
	7	6535	117	26T	3.00	6.15	7.86	3.65	6.70	8.45	3.60	6.05	8.01	-2.45	5.99	30.00	-24.01
		6695	149	26T	3.10	6.20	7.93	3.30	6.99	8.54	2.70	5.90	7.60	-2.45	6.08	30.00	-23.92
		6875	185	26T	3.80	6.40	8.30	3.99	6.95	8.73	3.20	6.45	8.13	-2.45	6.27	30.00	-23.73

Table 7-7. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

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MIMO Maximum Conducted Output Power Measurements (52 Tones)

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index												
					37			39			40						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
20MHz BW	5	5935	2	52T	0.15	3.77	5.34	-0.14	3.43	5.01	0.32	3.33	5.09	-1.47	3.87	24.00	-20.13
		6175	45	52T	0.92	3.38	5.33	0.74	3.12	5.10	0.68	3.34	5.22	-1.47	3.86	24.00	-20.14
		6415	93	52T	0.82	3.57	5.42	0.60	3.06	5.01	0.57	3.62	5.37	-1.47	3.95	24.00	-20.05
	6	6435	97	52T	0.53	2.68	4.75	0.31	3.10	4.93	0.22	2.94	4.80	-2.18	2.76	24.00	-21.24
		6475	105	52T	0.84	3.60	5.45	0.86	3.19	5.19	0.67	3.15	5.09	-2.18	3.27	24.00	-20.73
		6515	113	52T	0.96	3.41	5.36	0.20	3.65	5.27	0.66	3.41	5.26	-2.18	3.19	24.00	-20.81
	7	6535	117	52T	0.61	3.95	5.60	0.40	3.94	5.53	0.78	3.61	5.43	-2.45	3.15	24.00	-20.85
		6695	149	52T	0.20	3.82	5.39	0.08	3.40	5.06	0.46	3.61	5.33	-2.45	2.93	24.00	-21.07
		6875	185	52T	0.75	3.85	5.58	0.52	3.37	5.18	0.69	3.72	5.47	-2.45	3.13	24.00	-20.87
	8	6895	189	52T	0.73	3.38	5.26	0.92	3.92	5.68	0.45	3.27	5.10	-2.87	2.81	24.00	-21.19
		6995	209	52T	0.86	3.82	5.60	0.65	3.99	5.64	0.63	3.97	5.62	-2.87	2.77	24.00	-21.23
		7115	233	52T	0.73	3.58	5.40	0.00	3.08	4.82	0.32	3.42	5.15	-2.87	2.53	24.00	-21.47

Table 7-8. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index												
					37			39			40						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
20MHz BW	5	5935	2	52T	3.30	6.25	8.03	3.15	6.50	8.15	2.90	6.60	8.14	-1.47	6.68	30.00	-23.32
		6175	45	52T	6.80	9.25	11.21	6.99	9.25	11.28	6.95	9.30	11.29	-1.47	9.82	30.00	-20.18
		6415	93	52T	6.70	9.35	11.23	6.50	8.90	10.87	6.40	9.05	10.93	-1.47	9.76	30.00	-20.24
	7	6535	117	52T	6.82	8.80	10.93	6.80	9.65	11.47	6.85	8.85	10.97	-2.45	9.01	30.00	-20.99
		6695	149	52T	6.30	9.10	10.93	6.10	9.15	10.90	6.10	9.30	11.00	-2.45	8.54	30.00	-21.46
		6875	185	52T	6.60	9.65	11.40	6.70	9.70	11.46	6.35	9.25	11.05	-2.45	9.01	30.00	-20.99

Table 7-9. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

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MIMO Maximum Conducted Output Power Measurements (106 Tones)

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 53 ANT1	53 ANT2	53 MIMO	54 ANT1	54 ANT2	54 MIMO	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
20MHz BW	5	5935	2	106T	3.38	6.37	8.14	3.27	6.48	8.18	-1.47	6.70	24.00	-17.30
		6175	45	106T	3.99	6.48	8.42	3.99	6.30	8.30	-1.47	6.95	24.00	-17.05
		6415	93	106T	3.71	6.45	8.30	3.61	6.25	8.14	-1.47	6.83	24.00	-17.17
	6	6435	97	106T	3.62	5.82	7.87	3.73	5.84	7.92	-2.18	5.75	24.00	-18.25
		6475	105	106T	3.91	6.43	8.36	3.81	6.46	8.34	-2.18	6.18	24.00	-17.82
		6515	113	106T	3.71	6.47	8.32	3.97	6.21	8.24	-2.18	6.14	24.00	-17.86
	7	6535	117	106T	3.81	6.45	8.34	3.96	6.49	8.42	-2.45	5.96	24.00	-18.04
		6695	149	106T	3.37	6.48	8.21	3.35	6.48	8.20	-2.45	5.75	24.00	-18.25
		6875	185	106T	3.71	6.49	8.33	3.81	6.49	8.36	-2.45	5.91	24.00	-18.09
	8	6895	189	106T	3.68	6.40	8.26	3.70	6.31	8.21	-2.87	5.39	24.00	-18.61
		6995	209	106T	3.74	6.49	8.34	3.72	6.43	8.29	-2.87	5.47	24.00	-18.53
		7115	233	106T	3.83	6.38	8.30	3.47	6.49	8.25	-2.87	5.43	24.00	-18.57

Table 7-10. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 53 ANT1	53 ANT2	53 MIMO	54 ANT1	54 ANT2	54 MIMO	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
20MHz BW	5	5935	2	106T	5.35	8.45	10.18	5.65	8.60	10.38	-1.47	8.91	30.00	-21.09
		6175	45	106T	9.50	12.30	14.13	9.99	12.10	14.18	-1.47	12.71	30.00	-17.29
		6415	93	106T	9.85	12.30	14.26	9.95	12.20	14.23	-1.47	12.78	30.00	-17.22
	7	6535	117	106T	9.85	12.49	14.38	9.99	12.45	14.40	-2.45	11.95	30.00	-18.05
		6695	149	106T	9.75	12.85	14.58	9.90	12.49	14.40	-2.45	12.13	30.00	-17.87
		6875	185	106T	9.99	12.65	14.53	9.80	12.65	14.47	-2.45	12.08	30.00	-17.92

Table 7-11. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 53 ANT1	53 ANT2	53 MIMO	56 ANT1	56 ANT2	56 MIMO	60 ANT1	60 ANT2	60 MIMO	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
80MHz BW	5	5985	7	106T	8.90	10.85	12.99	8.40	10.70	12.71	8.60	11.10	13.04	-1.47	11.56	30.00	-18.44
		6145	39	106T	8.99	11.49	13.43	8.75	10.75	12.87	8.99	11.43	13.39	-1.47	11.95	30.00	-18.05
		6385	87	106T	8.90	10.75	12.93	8.85	10.58	12.81	8.75	10.70	12.84	-1.47	11.46	30.00	-18.54
	7	6545	119	106T	8.99	11.49	13.43	8.35	11.25	13.05	8.70	11.49	13.33	-2.45	10.97	30.00	-19.03
		6705	151	106T	8.25	11.49	13.18	7.95	11.35	12.98	8.49	11.49	13.25	-2.45	10.80	30.00	-19.20
		6865	183	106T	8.99	11.49	13.43	8.90	11.00	13.09	8.99	11.30	13.31	-2.45	10.97	30.00	-19.03

Table 7-12. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

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MIMO Maximum Conducted Output Power Measurements (242 Tones)

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 61			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO				
20MHz BW	5	5935	2	242T	6.45	9.56	11.28	-1.47	9.81	24.00	-14.19
		6175	45	242T	6.47	9.59	11.31	-1.47	9.84	24.00	-14.16
		6415	93	242T	6.71	9.53	11.36	-1.47	9.88	24.00	-14.12
	6	6435	97	242T	6.87	9.52	11.41	-2.18	9.23	24.00	-14.77
		6475	105	242T	6.84	9.24	11.21	-2.18	9.04	24.00	-14.96
		6515	113	242T	6.73	9.25	11.18	-2.18	9.00	24.00	-15.00
	7	6535	117	242T	6.78	9.92	11.64	-2.45	9.18	24.00	-14.82
		6695	149	242T	6.22	9.87	11.43	-2.45	8.97	24.00	-15.03
		6875	185	242T	6.88	9.96	11.70	-2.45	9.24	24.00	-14.76
	8	6895	189	242T	6.92	9.89	11.66	-2.87	8.79	24.00	-15.21
		6995	209	242T	6.97	9.99	11.75	-2.87	8.88	24.00	-15.12
		7115	233	242T	6.93	9.99	11.73	-2.87	8.86	24.00	-15.14

Table 7-13. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 61			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO				
20MHz BW	5	5935	2	242T	6.45	9.56	11.28	-1.47	9.81	30.00	-20.19
		6175	45	242T	13.30	15.00	17.24	-1.47	15.77	30.00	-14.23
		6415	93	242T	12.70	14.90	16.95	-1.47	15.47	30.00	-14.53
	7	6535	117	242T	12.85	15.20	17.19	-2.45	14.74	30.00	-15.26
		6695	149	242T	12.50	15.10	17.00	-2.45	14.55	30.00	-15.45
		6875	185	242T	12.65	15.30	17.18	-2.45	14.73	30.00	-15.27

Table 7-14. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 61			62			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
40MHz BW	5	5965	3	242T	9.65	12.45	14.28	9.30	12.50	14.20	-1.47	12.81	30.00	-17.19
		6005	11	242T	9.80	11.75	13.89	9.80	11.90	13.99	-1.47	12.51	30.00	-17.49
		6165	43	242T	9.99	12.10	14.18	9.99	11.90	14.06	-1.47	12.71	30.00	-17.29
		6405	91	242T	9.99	12.40	14.37	9.60	12.40	14.23	-1.47	12.90	30.00	-17.10
	7	6565	123	242T	9.90	12.85	14.63	9.85	12.40	14.32	-2.45	12.18	30.00	-17.82
		6685	147	242T	9.99	12.20	14.24	9.99	12.60	14.50	-2.45	12.04	30.00	-17.96
		6845	179	242T	9.90	12.85	14.63	9.35	12.85	14.45	-2.45	12.18	30.00	-17.82

Table 7-15. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 61			62			64			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
80MHz BW	5	5985	7	242T	8.30	10.25	12.39	8.49	10.90	12.87	8.35	11.10	12.95	-1.47	11.48	30.00	-18.52
		6145	39	242T	8.50	11.05	12.97	8.75	10.95	13.00	8.95	10.75	12.95	-1.47	11.52	30.00	-18.48
		6385	87	242T	8.95	10.30	12.69	8.99	10.75	12.97	8.60	10.60	12.72	-1.47	11.49	30.00	-18.51
	7	6545	119	242T	7.70	10.95	12.63	8.25	11.20	12.98	8.80	11.20	13.17	-2.45	10.72	30.00	-19.28
		6705	151	242T	7.70	10.85	12.56	7.75	10.95	12.65	8.60	11.40	13.23	-2.45	10.78	30.00	-19.22
		6865	183	242T	8.65	10.95	12.96	8.60	11.25	13.13	8.65	11.35	13.22	-2.45	10.76	30.00	-19.24

Table 7-16. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

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MIMO Maximum Conducted Output Power Measurements (484 Tones)

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 65			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO				
40MHz BW	5	5965	3	484T	6.40	9.23	11.05	-1.47	9.58	24.00	-14.42
		6005	11	484T	6.63	9.31	11.18	-1.47	9.71	24.00	-14.29
		6165	43	484T	6.83	9.21	11.19	-1.47	9.72	24.00	-14.28
		6405	91	484T	6.90	9.65	11.50	-1.47	10.03	24.00	-13.97
	6	6445	99	484T	7.15	9.41	11.43	-2.18	9.26	24.00	-14.74
		6485	107	484T	6.99	9.21	11.25	-2.18	9.08	24.00	-14.92
		6525	115	484T	7.33	9.47	11.54	-2.18	9.37	24.00	-14.63
	7	6565	123	484T	6.66	9.45	11.28	-2.45	8.83	24.00	-15.17
		6685	147	484T	6.89	9.42	11.35	-2.45	8.89	24.00	-15.11
		6845	179	484T	6.92	9.33	11.30	-2.45	8.85	24.00	-15.15
	8	6885	187	484T	6.73	9.31	11.22	-2.87	8.35	24.00	-15.65
		7005	211	484T	6.88	9.77	11.57	-2.87	8.70	24.00	-15.30
		7085	227	484T	6.77	9.44	11.32	-2.87	8.45	24.00	-15.55

Table 7-17. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 65			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO				
40MHz BW	5	5965	3	484T	9.95	12.25	14.26	-1.47	12.79	30.00	-17.21
		6005	11	484T	9.70	12.00	14.01	-1.47	12.54	30.00	-17.46
		6165	43	484T	9.99	12.00	14.12	-1.47	12.65	30.00	-17.35
		6405	91	484T	9.65	12.15	14.09	-1.47	12.61	30.00	-17.39
	7	6565	123	484T	9.50	12.25	14.10	-2.45	11.65	30.00	-18.35
		6685	147	484T	9.80	12.50	14.37	-2.45	11.91	30.00	-18.09
		6845	179	484T	9.10	12.40	14.07	-2.45	11.61	30.00	-18.39

Table 7-18. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 65			66			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
80MHz BW	5	5985	7	484T	8.58	10.85	12.87	8.99	10.85	13.03	-1.47	11.55	30.00	-18.45
		6145	39	484T	8.90	10.85	12.99	8.90	10.75	12.93	-1.47	11.52	30.00	-18.48
		6385	87	484T	8.99	11.10	13.18	8.99	10.65	12.91	-1.47	11.71	30.00	-18.29
	7	6545	119	484T	8.75	11.35	13.25	8.65	11.20	13.12	-2.45	10.80	30.00	-19.20
		6705	151	484T	8.60	11.30	13.17	8.35	11.15	12.98	-2.45	10.71	30.00	-19.29
		6865	183	484T	8.50	11.10	13.00	8.90	11.25	13.24	-2.45	10.79	30.00	-19.21

Table 7-19. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

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MIMO Maximum Conducted Output Power Measurements (996 Tones)

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 67			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO				
80MHz BW	5	5985	7	996T	6.34	8.79	10.75	-1.47	9.27	24.00	-14.73
		6145	39	996T	6.99	8.94	11.09	-1.47	9.61	24.00	-14.39
		6385	87	996T	6.84	8.57	10.80	-1.47	9.33	24.00	-14.67
	6	6465	103	996T	6.21	8.78	10.69	-2.18	8.52	24.00	-15.48
	7	6545	119	996T	6.49	9.16	11.04	-2.45	8.59	24.00	-15.41
		6705	151	996T	6.45	9.32	11.13	-2.45	8.68	24.00	-15.32
		6865	183	996T	6.88	9.13	11.16	-2.45	8.71	24.00	-15.29
	8	6945	199	996T	6.69	9.38	11.25	-2.87	8.38	24.00	-15.62
		7025	215	996T	6.71	8.81	10.90	-2.87	8.03	24.00	-15.97

Table 7-20. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 67			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					ANT1	ANT2	MIMO				
80MHz BW	5	5985	7	996T	8.55	11.10	13.02	-1.47	11.55	30.00	-18.45
		6145	39	996T	8.75	11.15	13.12	-1.47	11.65	30.00	-18.35
		6385	87	996T	8.70	10.90	12.95	-1.47	11.47	30.00	-18.53
	7	6545	119	996T	8.63	11.15	13.08	-2.45	10.62	30.00	-19.38
		6705	151	996T	8.20	11.05	12.87	-2.45	10.41	30.00	-19.59
		6865	183	996T	8.85	10.83	12.96	-2.45	10.51	30.00	-19.49

Table 7-21. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power – SP

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Sample MIMO Calculation:

At 5935MHz in 802.11ax (20MHz BW – 26 Tones) mode, the average conducted output power was measured to be -3.20 dBm for Antenna-1 and 0.10 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(-3.20 dBm + 0.10 dBm) = (0.479 mW + 1.023 mW) = 1.502 mW = 1.77 dBm

Sample Directional Gain Calculation:

Per ANSI C63.10:2020 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT}, the total number of antennas used.

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

Sample e.i.r.p. Calculation:

At 5935MHz in 802.11ax (20MHz BW – 26 Tones) mode, the average MIMO conducted power was calculated to be 1.77 dBm with directional gain of -1.47 dBi.

e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

1.77 dBm + -1.47 dBi = 0.29 dBm

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7.4 Maximum Power Spectral Density

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10:2020, was used to measure the power spectral density.

In the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed −1 dBm e.i.r.p. in any 1-megahertz band. For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm/MHz e.i.r.p.

Test Procedure Used

ANSI C63.10:2020 – Section 12.4.2.2
ANSI C63.10:2020 – Section 14.5.2.3 Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points ≥ 2 x (span/RBW)
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

Figure 7-3. Test Instrument & Measurement Setup

Test Notes

none

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MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	DCCF [dB]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	5935	2	ax (20MHz)	-5.04	-2.00	-4.92	-4.07	-0.25	-1.47	0.14	-1.72	-1	-0.72
	6175	45	ax (20MHz)	-5.08	-1.48	-4.92	-4.07	0.09	-1.47	0.14	-1.38	-1	-0.38
	6415	93	ax (20MHz)	-5.07	-1.88	-4.92	-4.07	-0.18	-1.47	0.14	-1.65	-1	-0.65
	5965	3	ax (40MHz)	-5.15	-1.71	-4.92	-4.07	-0.09	-1.47	0.13	-1.43	-1	-0.43
	6165	43	ax (40MHz)	-4.79	-1.90	-4.92	-4.07	-0.10	-1.47	0.13	-1.44	-1	-0.44
	6405	91	ax (40MHz)	-5.08	-1.71	-4.92	-4.07	-0.06	-1.47	0.13	-1.41	-1	-0.41
	5985	7	ax (80MHz)	-5.26	-2.47	-4.92	-4.07	-0.63	-1.47	0.14	-1.97	-1	-0.97
	6145	39	ax (80MHz)	-4.87	-2.84	-4.92	-4.07	-0.72	-1.47	0.14	-2.06	-1	-1.06
	6385	87	ax (80MHz)	-4.55	-2.41	-4.92	-4.07	-0.34	-1.47	0.14	-1.68	-1	-0.68
Band 6	6435	97	ax (20MHz)	-4.23	-1.60	-4.92	-5.46	0.29	-2.18	0.14	-1.74	-1	-0.74
	6475	105	ax (20MHz)	-4.36	-2.12	-4.92	-5.46	-0.09	-2.18	0.14	-2.12	-1	-1.12
	6515	113	ax (20MHz)	-4.84	-1.99	-4.92	-5.46	-0.18	-2.18	0.14	-2.21	-1	-1.21
	6445	99	ax (40MHz)	-4.50	-1.84	-4.92	-5.46	0.04	-2.18	0.13	-2.01	-1	-1.01
	6485	107	ax (40MHz)	-4.75	-1.34	-4.92	-5.46	0.29	-2.18	0.13	-1.75	-1	-0.75
	6525	115	ax (40MHz)	-3.95	-1.90	-4.92	-5.46	0.21	-2.18	0.13	-1.84	-1	-0.84
	6465	103	ax (80MHz)	-5.28	-2.76	-4.92	-5.46	-0.83	-2.18	0.14	-2.87	-1	-1.87
Band 7	6535	117	ax (20MHz)	-4.41	-1.53	-5.35	-5.58	0.28	-2.45	0.14	-2.04	-1	-1.04
	6695	149	ax (20MHz)	-5.65	-1.92	-5.35	-5.58	-0.39	-2.45	0.14	-2.70	-1	-1.70
	6875	185	ax (20MHz)	-4.82	-1.72	-5.35	-5.58	0.01	-2.45	0.14	-2.30	-1	-1.30
	6565	123	ax (40MHz)	-5.08	-1.27	-5.35	-5.58	0.24	-2.45	0.13	-2.09	-1	-1.09
	6725	155	ax (40MHz)	-4.43	-1.63	-5.35	-5.58	0.20	-2.45	0.13	-2.12	-1	-1.12
	6845	179	ax (40MHz)	-4.42	-1.14	-5.35	-5.58	0.54	-2.45	0.13	-1.79	-1	-0.79
	6545	119	ax (80MHz)	-5.80	-2.13	-5.35	-5.58	-0.57	-2.45	0.14	-2.89	-1	-1.89
	6705	151	ax (80MHz)	-5.77	-2.09	-5.35	-5.58	-0.54	-2.45	0.14	-2.86	-1	-1.86
	6865	183	ax (80MHz)	-4.89	-1.70	-5.35	-5.58	0.00	-2.45	0.14	-2.32	-1	-1.32
Band 8	6895	189	ax (20MHz)	-4.62	-1.48	-5.81	-5.95	0.24	-2.87	0.14	-2.49	-1	-1.49
	6995	209	ax (20MHz)	-5.28	-0.87	-5.81	-5.95	0.47	-2.87	0.14	-2.26	-1	-1.26
	7115	233	ax (20MHz)	-5.75	-1.28	-5.81	-5.95	0.05	-2.87	0.14	-2.68	-1	-1.68
	6885	187	ax (40MHz)	-5.07	-1.30	-5.81	-5.95	0.22	-2.87	0.13	-2.52	-1	-1.52
	7005	211	ax (40MHz)	-5.17	-1.56	-5.81	-5.95	0.01	-2.87	0.13	-2.73	-1	-1.73
	7085	227	ax (40MHz)	-5.76	-1.81	-5.81	-5.95	-0.34	-2.87	0.13	-3.08	-1	-2.08
	6945	199	ax (80MHz)	-5.01	-2.21	-5.81	-5.95	-0.38	-2.87	0.14	-3.11	-1	-2.11
	7025	215	ax (80MHz)	-5.47	-2.62	-5.81	-5.95	-0.81	-2.87	0.14	-3.54	-1	-2.54

Table 7-22. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (26 Tones) – LPI

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	DCCF [dB]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	5935	2	ax (20MHz)	-5.58	-2.06	-4.92	-4.07	-0.46	-1.47	0.14	-1.94	-1	-0.94
	6175	45	ax (20MHz)	-5.74	-2.51	-4.92	-4.07	-0.82	-1.47	0.14	-2.29	-1	-1.29
	6415	93	ax (20MHz)	-5.27	-2.63	-4.92	-4.07	-0.74	-1.47	0.14	-2.21	-1	-1.21
	5965	3	ax (40MHz)	-5.47	-2.72	-4.92	-4.07	-0.87	-1.47	0.34	-2.00	-1	-1.00
	6165	43	ax (40MHz)	-5.57	-2.41	-4.92	-4.07	-0.70	-1.47	0.34	-1.83	-1	-0.83
	6405	91	ax (40MHz)	-6.36	-2.99	-4.92	-4.07	-1.34	-1.47	0.34	-2.47	-1	-1.47
	5985	7	ax (80MHz)	-9.52	-6.47	-4.92	-4.07	-4.72	-1.47	0.67	-5.52	-1	-4.52
	6145	39	ax (80MHz)	-9.12	-6.77	-4.92	-4.07	-4.78	-1.47	0.67	-5.58	-1	-4.58
	6385	87	ax (80MHz)	-9.35	-6.59	-4.92	-4.07	-4.75	-1.47	0.67	-5.55	-1	-4.55
Band 6	6435	97	ax (20MHz)	-5.06	-2.51	-4.92	-5.46	-0.59	-2.18	0.14	-2.63	-1	-1.63
	6475	105	ax (20MHz)	-4.96	-2.60	-4.92	-5.46	-0.61	-2.18	0.14	-2.65	-1	-1.65
	6515	113	ax (20MHz)	-4.80	-2.48	-4.92	-5.46	-0.48	-2.18	0.14	-2.51	-1	-1.51
	6445	99	ax (40MHz)	-5.80	-3.38	-4.92	-5.46	-1.42	-2.18	0.34	-3.25	-1	-2.25
	6485	107	ax (40MHz)	-5.06	-2.79	-4.92	-5.46	-0.77	-2.18	0.34	-2.60	-1	-1.60
	6525	115	ax (40MHz)	-5.02	-2.96	-4.92	-5.46	-0.86	-2.18	0.34	-2.69	-1	-1.69
	6465	103	ax (80MHz)	-9.90	-6.46	-4.92	-5.46	-4.84	-2.18	0.67	-6.34	-1	-5.34
Band 7	6535	117	ax (20MHz)	-4.37	-2.42	-5.35	-5.58	-0.28	-2.45	0.14	-2.59	-1	-1.59
	6695	149	ax (20MHz)	-5.12	-2.30	-5.35	-5.58	-0.47	-2.45	0.14	-2.78	-1	-1.78
	6875	185	ax (20MHz)	-5.73	-2.00	-5.35	-5.58	-0.46	-2.45	0.14	-2.78	-1	-1.78
	6565	123	ax (40MHz)	-5.65	-3.13	-5.35	-5.58	-1.20	-2.45	0.34	-3.31	-1	-2.31
	6725	155	ax (40MHz)	-5.11	-2.84	-5.35	-5.58	-0.82	-2.45	0.34	-2.93	-1	-1.93
	6845	179	ax (40MHz)	-5.48	-2.75	-5.35	-5.58	-0.89	-2.45	0.34	-3.01	-1	-2.01
	6545	119	ax (80MHz)	-9.44	-6.33	-5.35	-5.58	-4.60	-2.45	0.67	-6.38	-1	-5.38
	6705	151	ax (80MHz)	-9.69	-6.84	-5.35	-5.58	-5.03	-2.45	0.67	-6.80	-1	-5.80
	6865	183	ax (80MHz)	-8.92	-5.95	-5.35	-5.58	-4.18	-2.45	0.67	-5.96	-1	-4.96
Band 8	6895	189	ax (20MHz)	-5.38	-2.00	-5.81	-5.95	-0.36	-2.87	0.14	-3.09	-1	-2.09
	6995	209	ax (20MHz)	-5.43	-1.52	-5.81	-5.95	-0.04	-2.87	0.14	-2.77	-1	-1.77
	7115	233	ax (20MHz)	-6.47	-1.36	-5.81	-5.95	-0.19	-2.87	0.14	-2.92	-1	-1.92
	6885	187	ax (40MHz)	-5.79	-2.19	-5.81	-5.95	-0.62	-2.87	0.34	-3.14	-1	-2.14
	7005	211	ax (40MHz)	-6.32	-2.46	-5.81	-5.95	-0.97	-2.87	0.34	-3.49	-1	-2.49
	7085	227	ax (40MHz)	-6.62	-2.05	-5.81	-5.95	-0.75	-2.87	0.34	-3.28	-1	-2.28
	6945	199	ax (80MHz)	-9.60	-6.83	-5.81	-5.95	-4.99	-2.87	0.67	-7.18	-1	-6.18
	7025	215	ax (80MHz)	-8.94	-6.51	-5.81	-5.95	-4.54	-2.87	0.67	-6.74	-1	-5.74

Table 7-23. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (Full Tones) – LPI

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	DCCF [dB]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	5935	2	ax (20MHz)	0.10	4.15	-4.92	-4.07	5.59	-1.47	0.14	4.11	17	-12.89
	6175	45	ax (20MHz)	1.29	4.50	-4.92	-4.07	6.20	-1.47	0.14	4.72	17	-12.28
	6415	93	ax (20MHz)	0.94	3.74	-4.92	-4.07	5.57	-1.47	0.14	4.10	17	-12.90
	5965	3	ax (40MHz)	2.04	5.46	-4.92	-4.07	7.09	-1.47	0.13	5.74	17	-11.26
	6165	43	ax (40MHz)	3.02	5.50	-4.92	-4.07	7.45	-1.47	0.13	6.10	17	-10.90
	6405	91	ax (40MHz)	1.99	5.33	-4.92	-4.07	6.99	-1.47	0.13	5.64	17	-11.36
	5985	7	ax (80MHz)	2.03	4.41	-4.92	-4.07	6.39	-1.47	0.14	5.05	17	-11.95
	6145	39	ax (80MHz)	1.78	4.45	-4.92	-4.07	6.33	-1.47	0.14	4.99	17	-12.01
	6385	87	ax (80MHz)	2.02	3.92	-4.92	-4.07	6.09	-1.47	0.14	4.75	17	-12.25
Band 7	6535	117	ax (20MHz)	0.68	3.92	-5.35	-5.58	5.60	-2.45	0.14	3.29	17	-13.71
	6695	149	ax (20MHz)	0.75	3.95	-5.35	-5.58	5.65	-2.45	0.14	3.34	17	-13.66
	6855	181	ax (20MHz)	1.59	4.29	-5.35	-5.58	6.16	-2.45	0.14	3.85	17	-13.15
	6565	123	ax (40MHz)	1.51	5.21	-5.35	-5.58	6.75	-2.45	0.13	4.43	17	-12.57
	6725	155	ax (40MHz)	1.80	5.49	-5.35	-5.58	7.04	-2.45	0.13	4.71	17	-12.29
	6845	179	ax (40MHz)	2.33	5.49	-5.35	-5.58	7.20	-2.45	0.13	4.87	17	-12.13
	6625	135	ax (80MHz)	0.69	4.48	-5.35	-5.58	6.00	-2.45	0.14	3.68	17	-13.32
	6705	151	ax (80MHz)	1.55	4.62	-5.35	-5.58	6.36	-2.45	0.14	4.04	17	-12.96
	6785	167	ax (80MHz)	1.71	5.08	-5.35	-5.58	6.72	-2.45	0.14	4.41	17	-12.59

Table 7-24. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (26 Tones) – SP

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	DCCF [dB]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	5935	2	ax (20MHz)	0.74	3.93	-4.92	-4.07	5.63	-1.47	0.14	4.16	17	-12.84
	6175	45	ax (20MHz)	1.60	3.82	-4.92	-4.07	5.86	-1.47	0.14	4.38	17	-12.62
	6415	93	ax (20MHz)	0.97	3.69	-4.92	-4.07	5.55	-1.47	0.14	4.08	17	-12.92
	5965	3	ax (40MHz)	-4.87	-1.52	-4.92	-4.07	0.13	-1.47	0.34	-1.00	17	-18.00
	6165	43	ax (40MHz)	-3.96	-1.58	-4.92	-4.07	0.40	-1.47	0.34	-0.73	17	-17.73
	6405	91	ax (40MHz)	-4.48	-1.49	-4.92	-4.07	0.28	-1.47	0.34	-0.85	17	-17.85
	5985	7	ax (80MHz)	-9.34	-6.68	-4.92	-4.07	-4.80	-1.47	0.67	-5.60	17	-22.60
	6145	39	ax (80MHz)	-8.80	-6.31	-4.92	-4.07	-4.37	-1.47	0.67	-5.17	17	-22.17
	6385	87	ax (80MHz)	-9.19	-6.77	-4.92	-4.07	-4.80	-1.47	0.67	-5.60	17	-22.60
Band 7	6535	117	ax (20MHz)	1.08	4.16	-5.35	-5.58	5.90	-2.45	0.14	3.58	17	-13.42
	6695	149	ax (20MHz)	0.99	3.85	-5.35	-5.58	5.66	-2.45	0.14	3.35	17	-13.65
	6855	181	ax (20MHz)	1.44	4.30	-5.35	-5.58	6.11	-2.45	0.14	3.80	17	-13.20
	6565	123	ax (40MHz)	-5.08	-1.57	-5.35	-5.58	0.03	-2.45	0.34	-2.08	17	-19.08
	6725	155	ax (40MHz)	-4.38	-1.73	-5.35	-5.58	0.16	-2.45	0.34	-1.95	17	-18.95
	6845	179	ax (40MHz)	-4.74	-0.89	-5.35	-5.58	0.61	-2.45	0.34	-1.50	17	-18.50
	6625	135	ax (80MHz)	-9.94	-6.34	-5.35	-5.58	-4.77	-2.45	0.67	-6.55	17	-23.55
	6705	151	ax (80MHz)	-9.48	-6.01	-5.35	-5.58	-4.40	-2.45	0.67	-6.18	17	-23.18
	6785	167	ax (80MHz)	-9.02	-6.27	-5.35	-5.58	-4.42	-2.45	0.67	-6.20	17	-23.20

Table 7-25. MIMO e.i.r.p. Conducted Power Spectral Density Measurements (Full Tones) – SP

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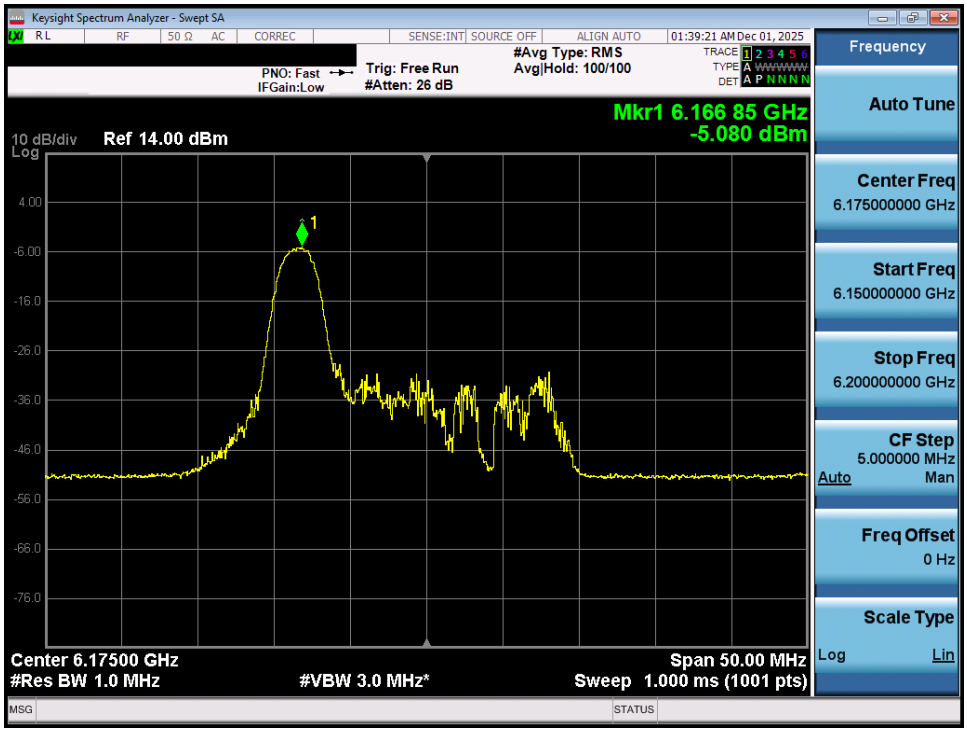
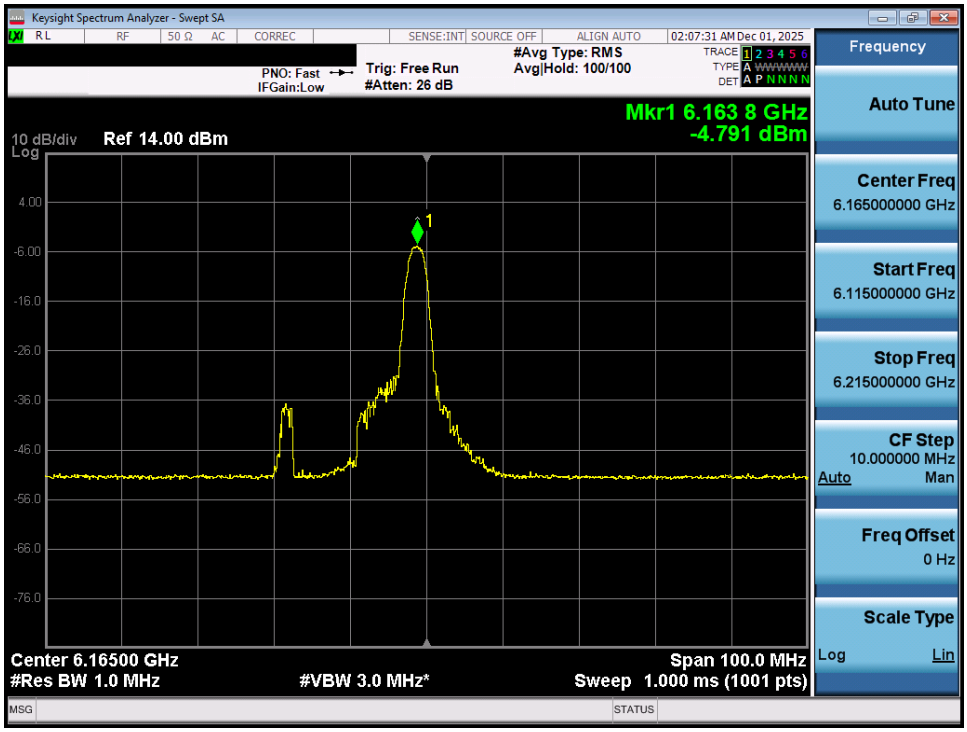
7.4.1 MIMO Antenna-1 Power Spectral Density Measurements



Plot 7-25. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-26. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - LPI

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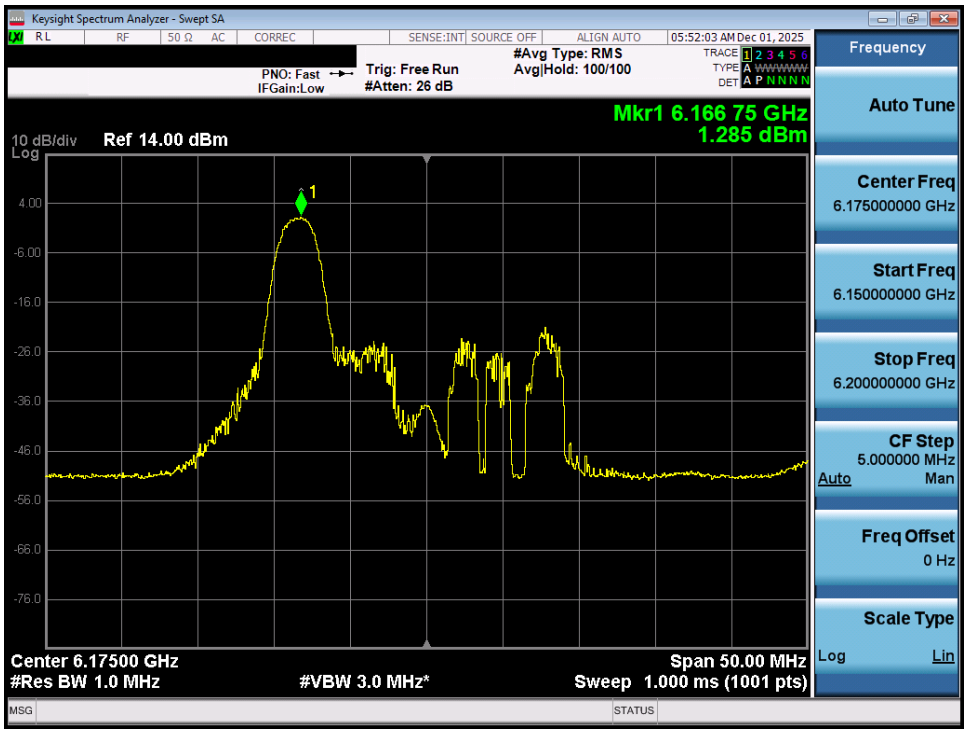
Plot 7-27. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-28. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - SP

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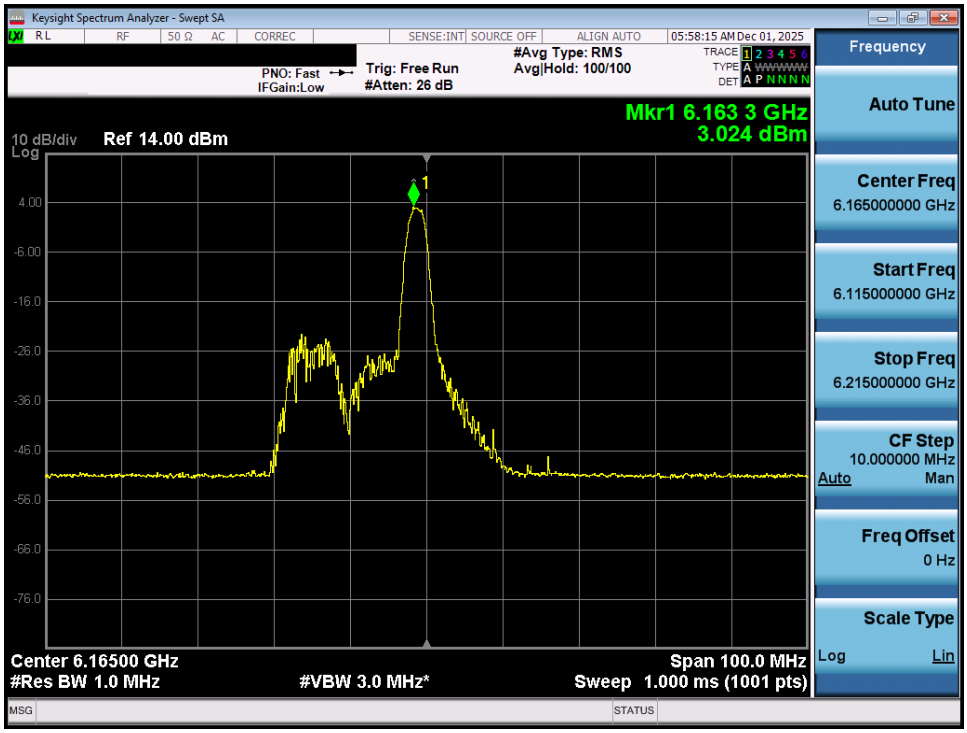
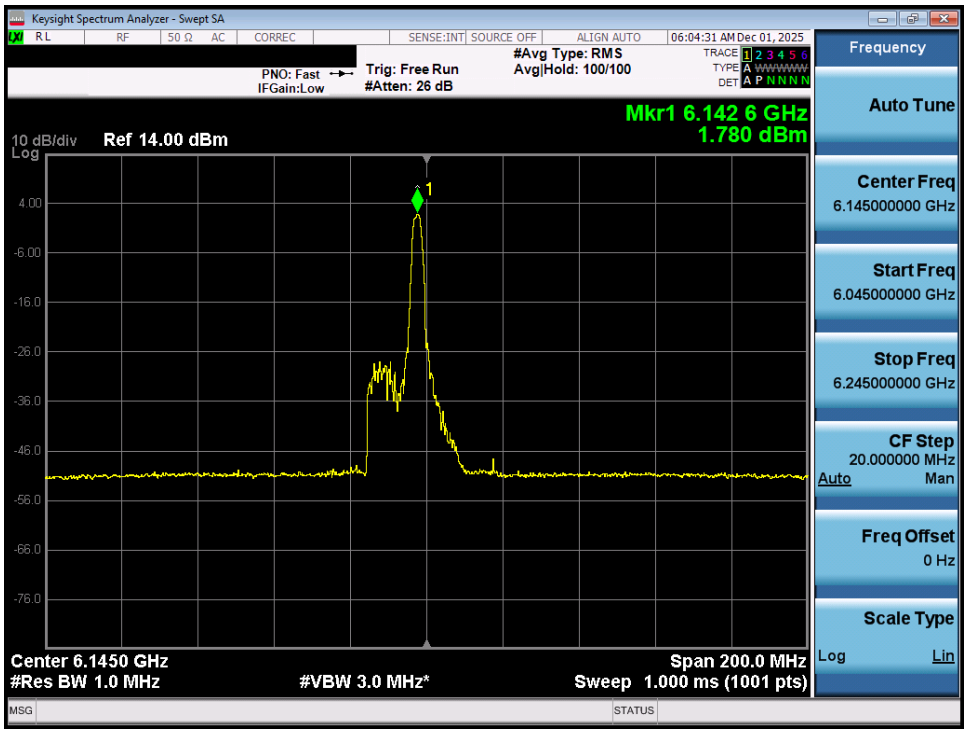


Plot 7-29. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - SP



Plot 7-30. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - SP

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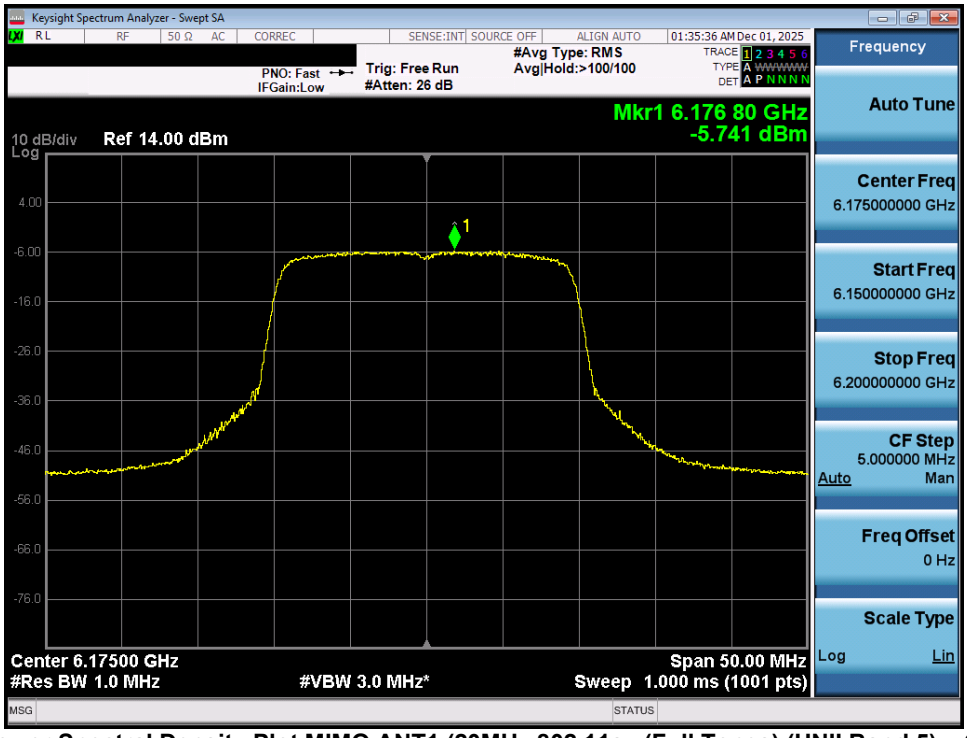
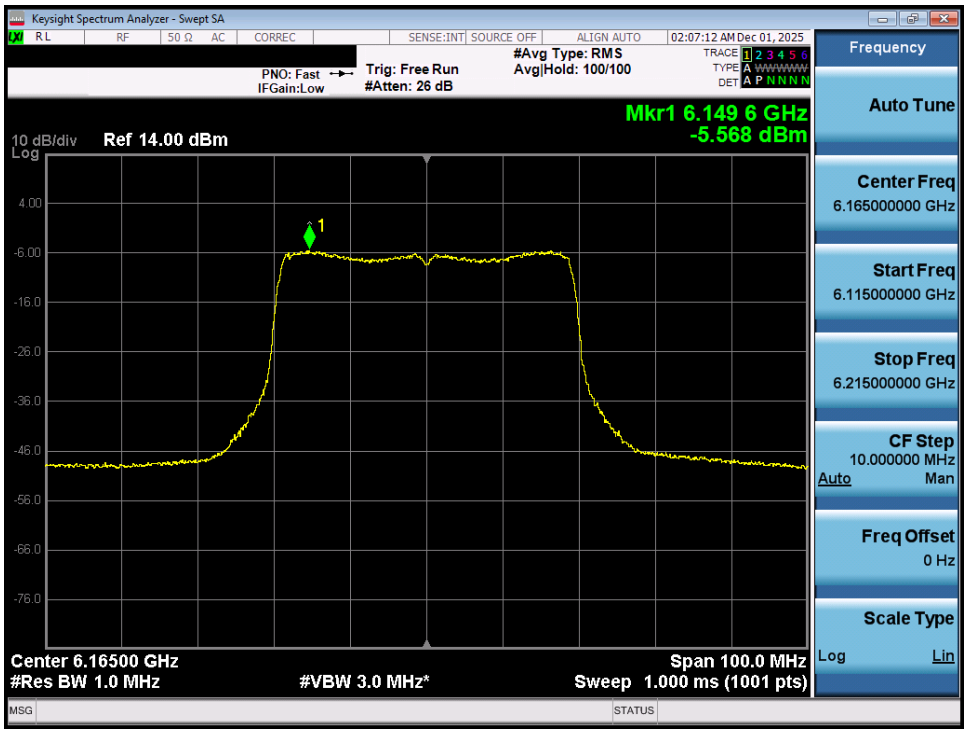


Plot 7-31. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-32. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - LPI

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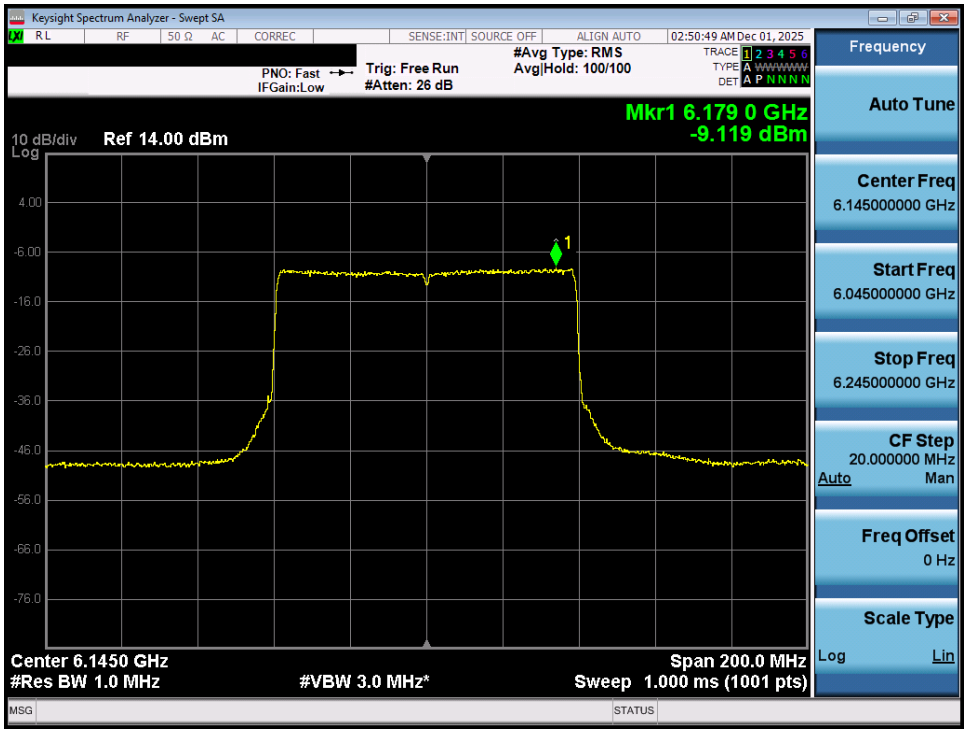

Plot 7-33. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - LPI

Plot 7-34. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - SP

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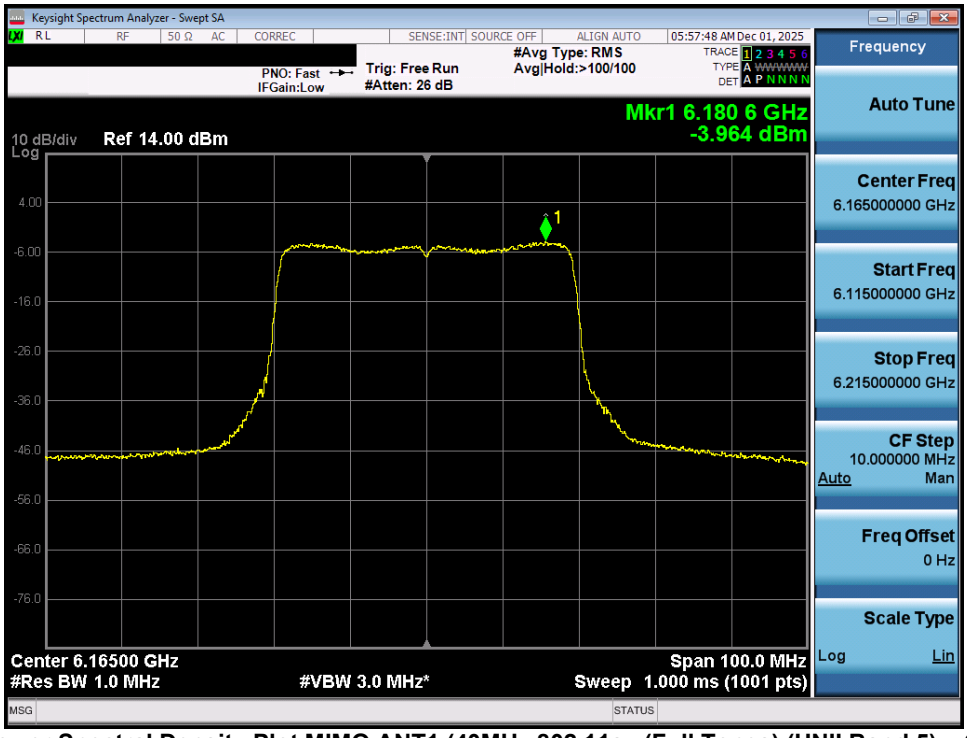
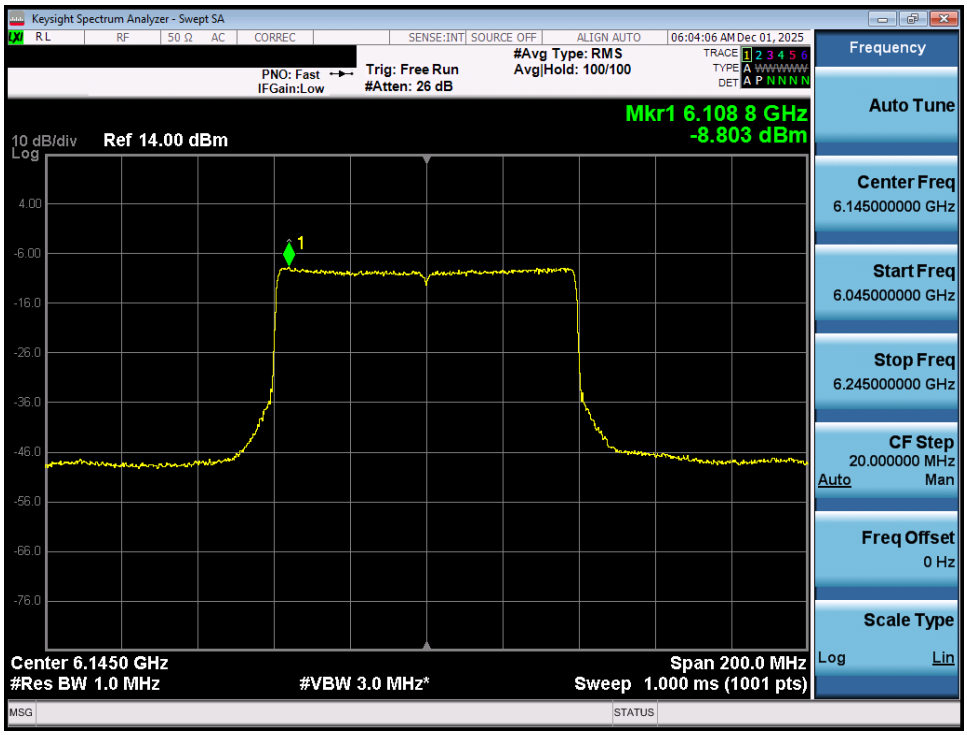


Plot 7-35. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) – SP



Plot 7-36. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - SP

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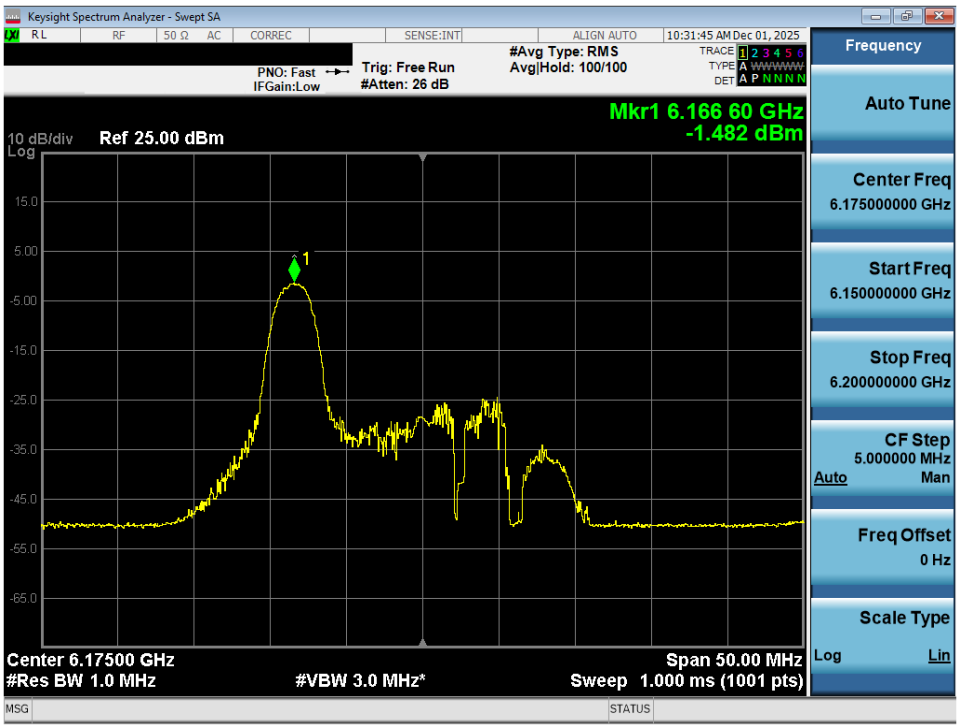
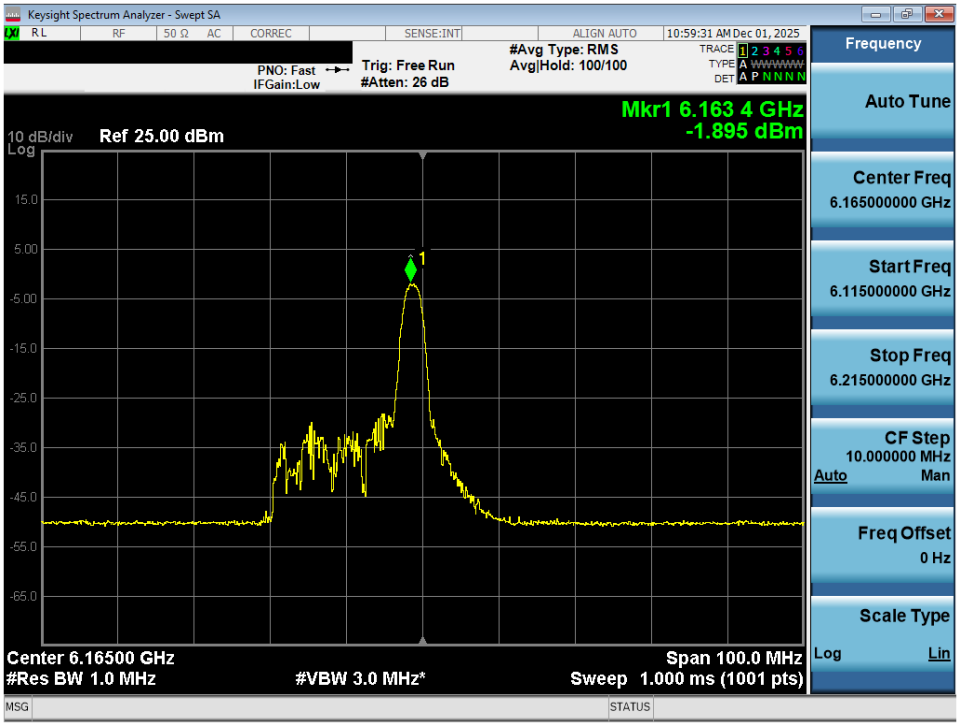
7.4.2 MIMO Antenna-2 Power Spectral Density Measurements



Plot 7-37. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-38. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - LPI

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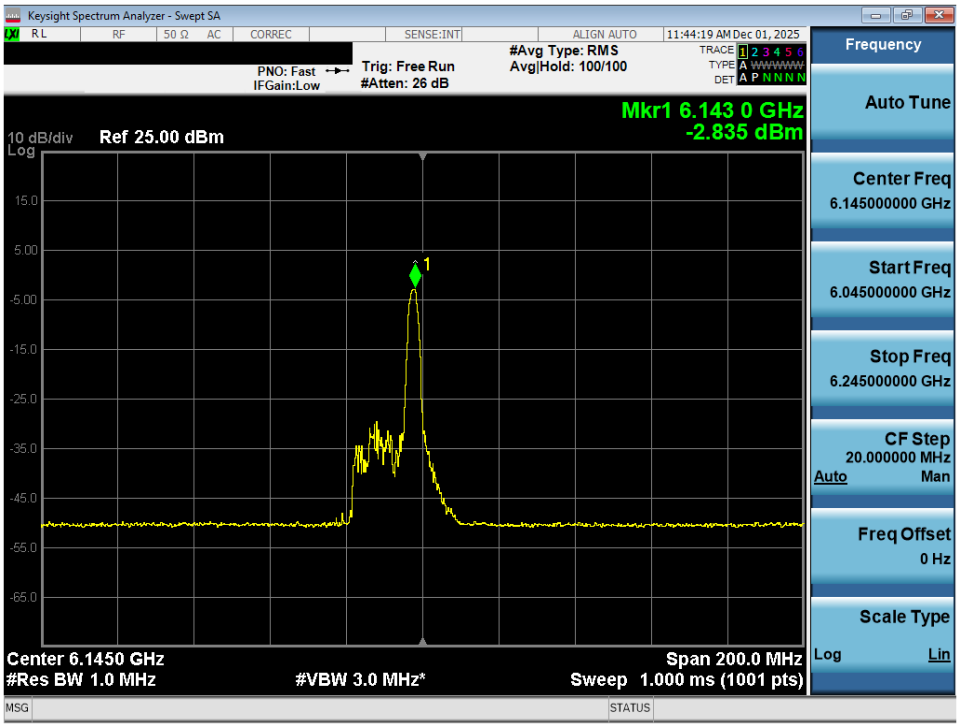
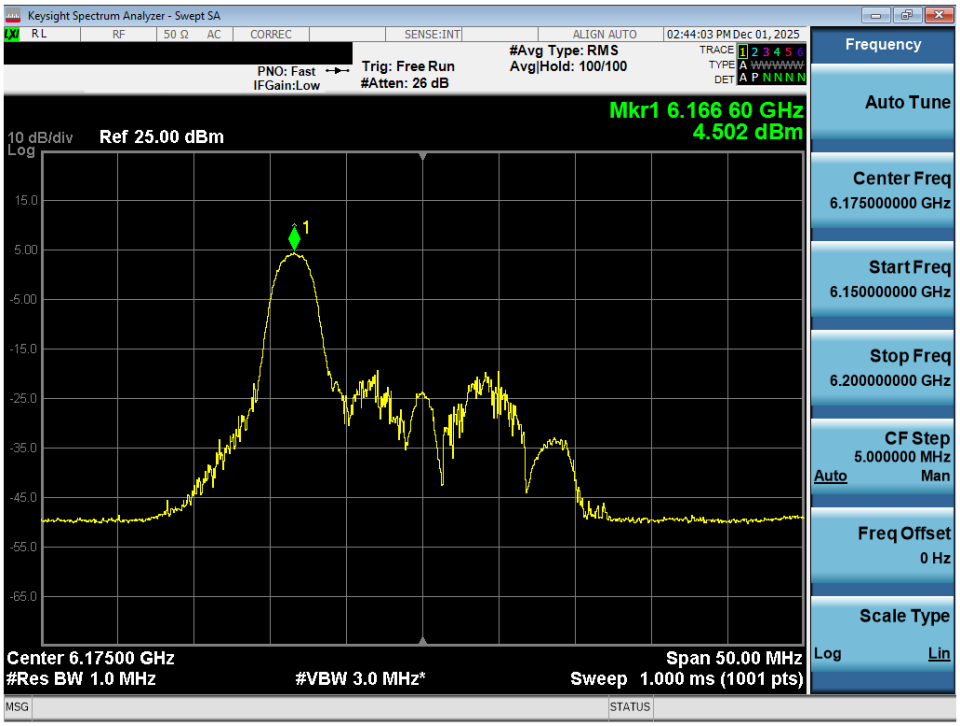


Plot 7-39. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-40. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - SP

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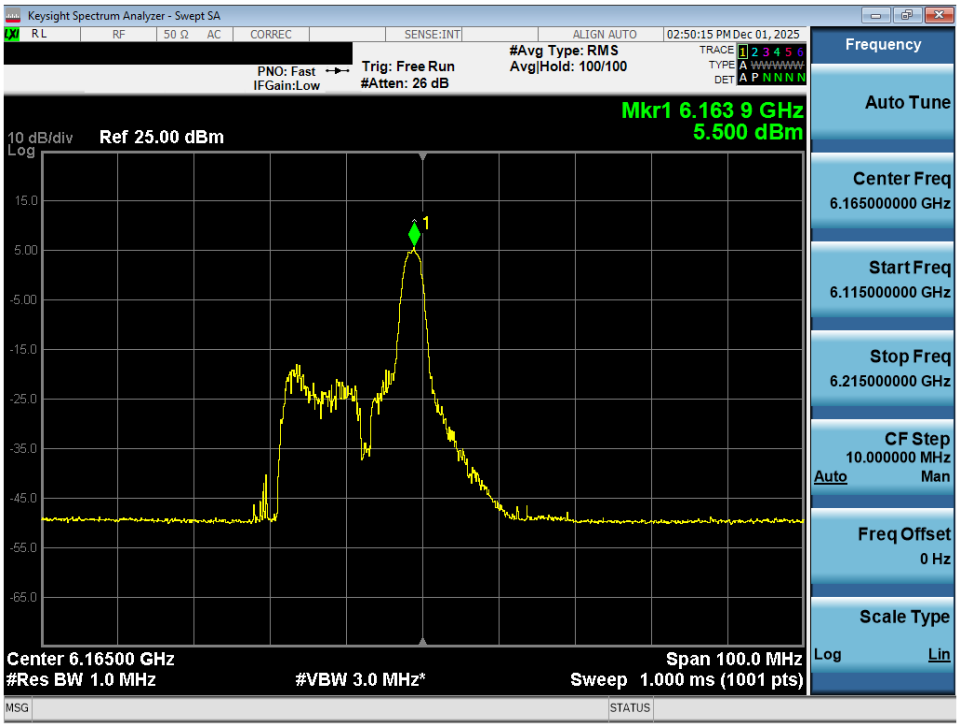

Plot 7-41. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - SP

Plot 7-42. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - SP

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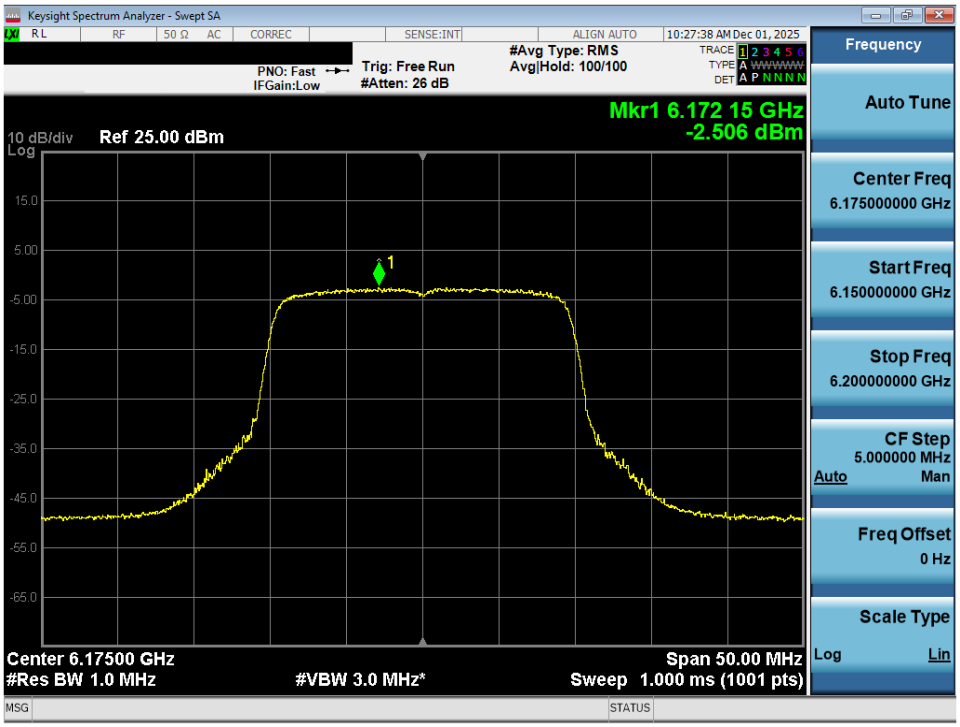
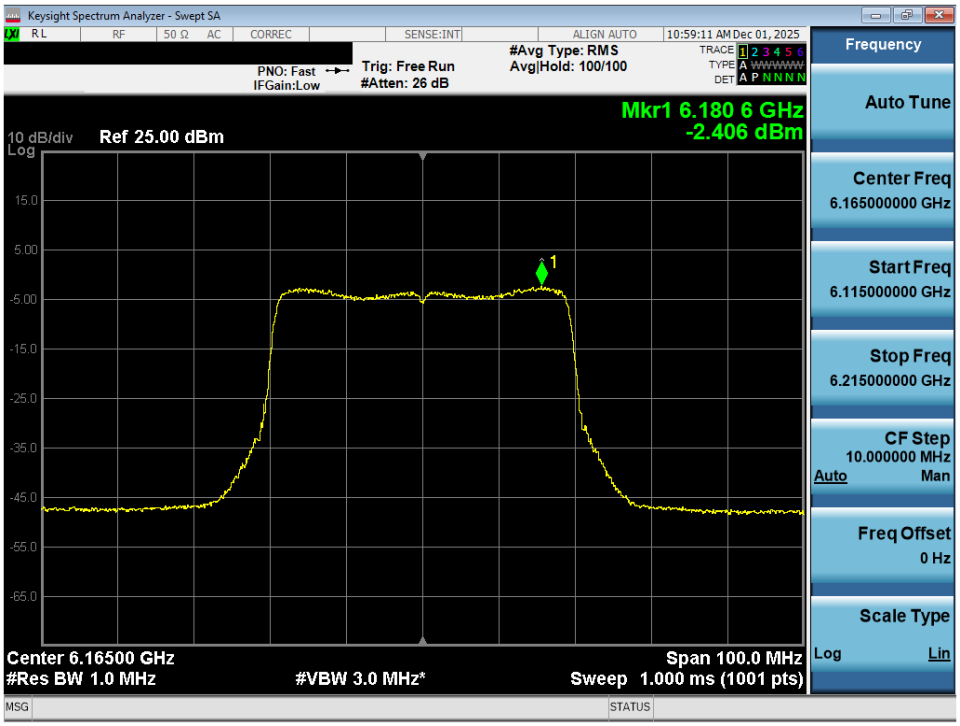


Plot 7-43. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-44. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - LPI

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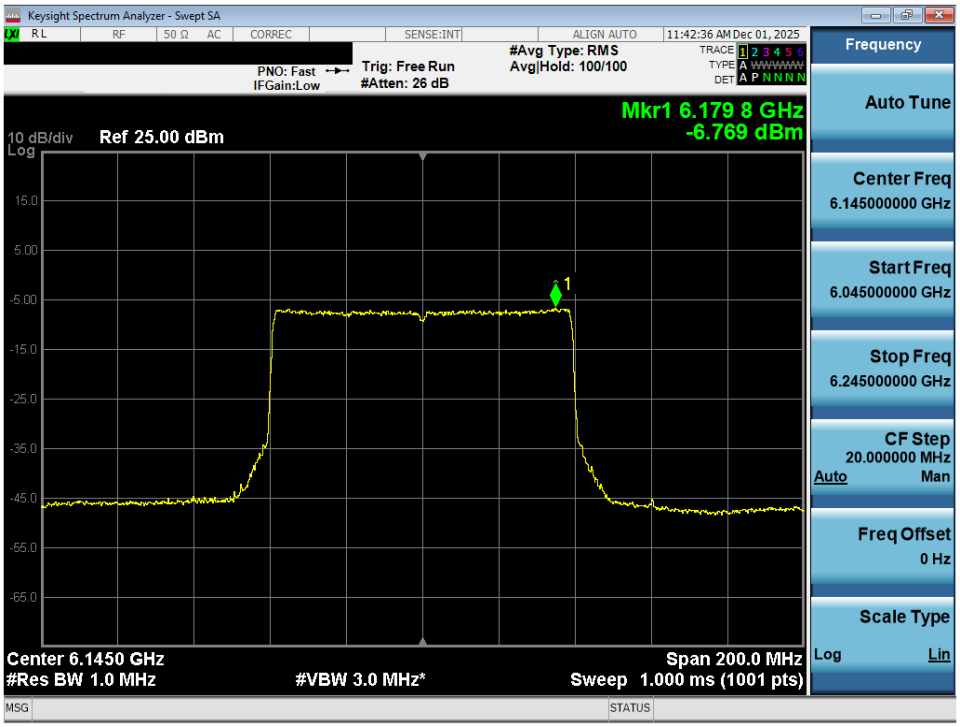
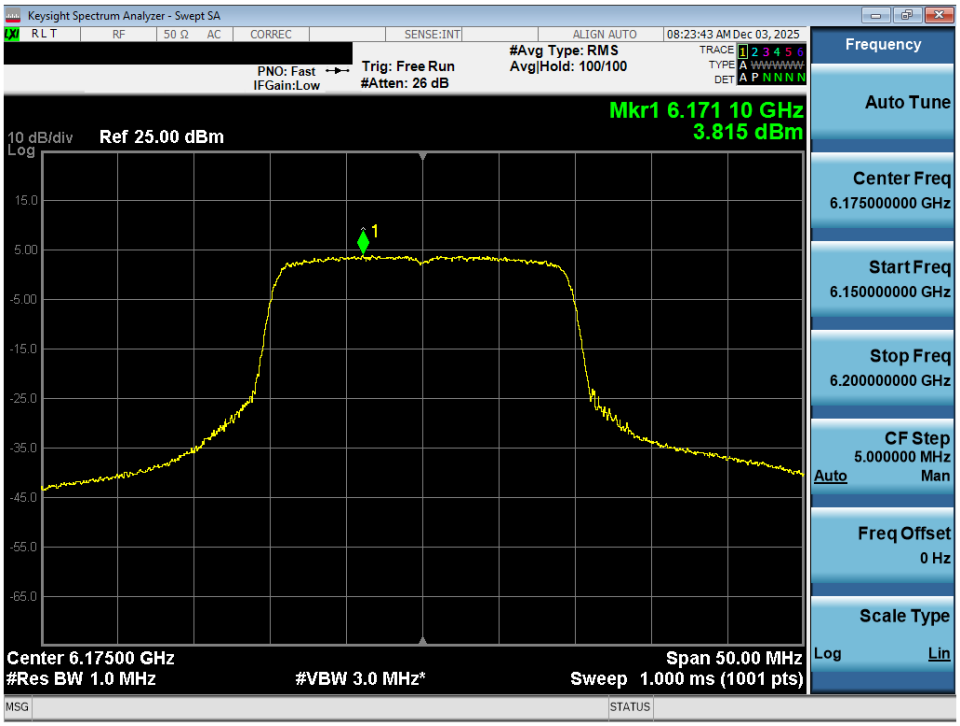


Plot 7-45. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-46. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - SP

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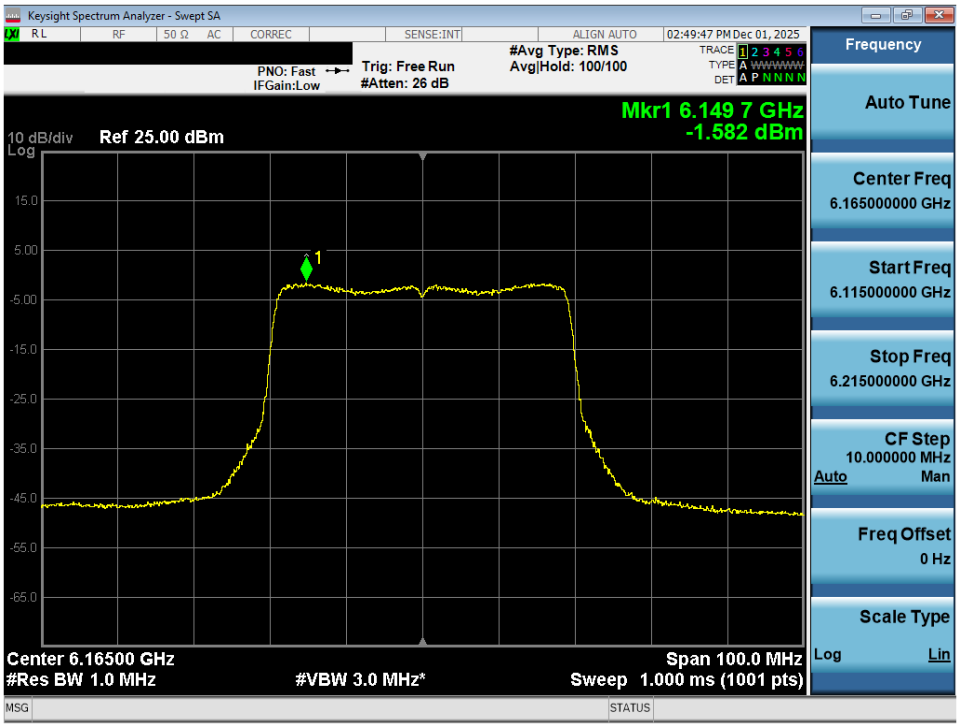
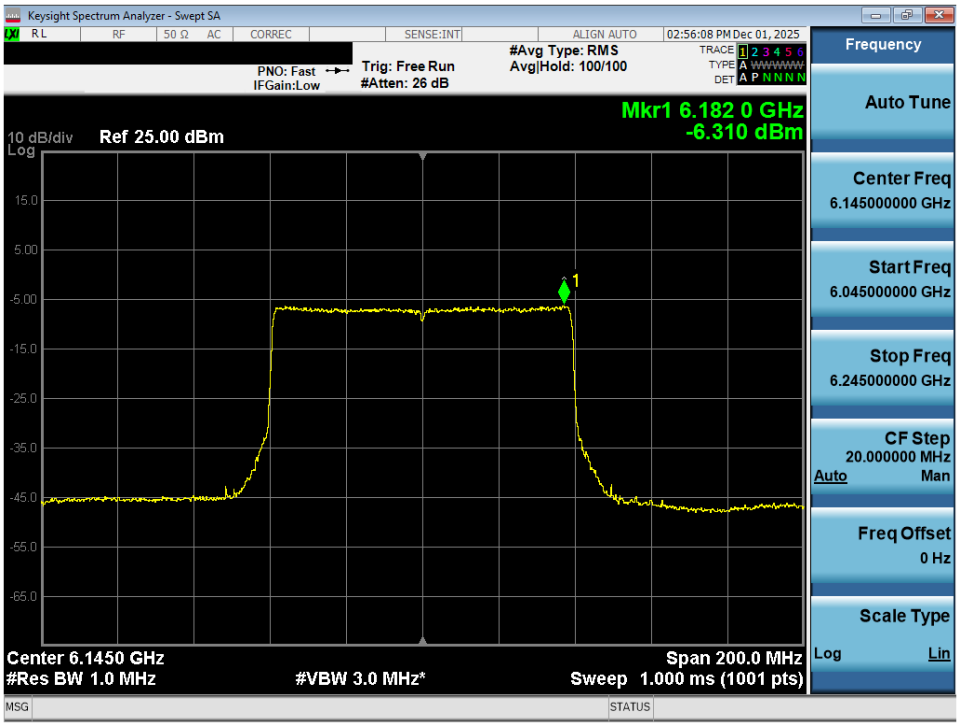


Plot 7-47. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - SP



Plot 7-48. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - SP

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Note:

Per ANSI C63.10:2020 Section 14.5.2.3 the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10:2020 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT}, the total number of antennas used.

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

Sample MIMO Calculation:

At 5935MHz in 802.11ax (20MHz BW) mode, the average conducted power spectral density was measured to be -5.04 dBm for Antenna-1 and -2.00 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(-5.04 dBm + -2.00 dBm) = (0.313 mW + 0.632 mW) = 0.945 mW = -0.25 dBm

Sample e.i.r.p Power Spectral Density Calculation:

At 5935 MHz in 802.11ax (20MHz BW) mode, the average MIMO power density was calculated to be -0.25 dBm with directional gain of -1.47 dBi.

e.i.r.p. Power Spectral Density(dBm) = Power Spectral Density (dBm) + Ant gain (dBi) + DCCF (dB)

-0.25 dBm + -1.47 dBi + 0.14 dB = -1.72 dBm

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7.5 In-Band Emissions

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test Procedure Used

KDB 987594 D02 v03

Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.6.2 of ANSI C63.10:2020.
3. Measure the 26 dB EBW using the test procedure 12.5.2 of ANSI C63.10:2020. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
    a) Set the span to encompass the entire 26 dB EBW of the signal.
    b) Set RBW = same RBW used for 26 dB EBW measurement.
    c) Set VBW ≥ 3 X RBW
    d) Number of points in sweep ≥ [2 X span / RBW].
    e) Sweep time = auto.
    f) Detector = RMS (i.e., power averaging)
    g) Trace average at least 100 traces in power averaging (rms) mode.
    h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
    a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
    b) Suppressed by 28 dB at one channel bandwidth from the channel center.
    c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None.

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	5935	2	ax (20MHz)	PASS	PASS
	6175	45	ax (20MHz)	PASS	PASS
	6415	93	ax (20MHz)	PASS	PASS
	5965	3	ax (40MHz)	PASS	PASS
	6165	43	ax (40MHz)	PASS	PASS
	6405	91	ax (40MHz)	PASS	PASS
	5985	7	ax (80MHz)	PASS	PASS
	6145	39	ax (80MHz)	PASS	PASS
	6385	87	ax (80MHz)	PASS	PASS
Band 6	6435	97	ax (20MHz)	PASS	PASS
	6475	105	ax (20MHz)	PASS	PASS
	6515	113	ax (20MHz)	PASS	PASS
	6445	99	ax (40MHz)	PASS	PASS
	6485	107	ax (40MHz)	PASS	PASS
	6525	115	ax (40MHz)	PASS	PASS
	6465	103	ax (80MHz)	PASS	PASS
Band 7	6535	117	ax (20MHz)	PASS	PASS
	6695	149	ax (20MHz)	PASS	PASS
	6875	185	ax (20MHz)	PASS	PASS
	6565	123	ax (40MHz)	PASS	PASS
	6725	155	ax (40MHz)	PASS	PASS
	6845	179	ax (40MHz)	PASS	PASS
	6545	119	ax (80MHz)	PASS	PASS
	6705	151	ax (80MHz)	PASS	PASS
	6865	183	ax (80MHz)	PASS	PASS
Band 8	6895	189	ax (20MHz)	PASS	PASS
	6995	209	ax (20MHz)	PASS	PASS
	7115	233	ax (20MHz)	PASS	PASS
	6885	187	ax (40MHz)	PASS	PASS
	7005	211	ax (40MHz)	PASS	PASS
	7085	227	ax (40MHz)	PASS	PASS
	6945	199	ax (80MHz)	PASS	PASS
	7025	215	ax (80MHz)	PASS	PASS

Table 7-26. In Band Emissions Results Measurements (26 Tones) – LPI

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	5935	2	ax (20MHz)	PASS	PASS
	6175	45	ax (20MHz)	PASS	PASS
	6415	93	ax (20MHz)	PASS	PASS
	5965	3	ax (40MHz)	PASS	PASS
	6165	43	ax (40MHz)	PASS	PASS
	6405	91	ax (40MHz)	PASS	PASS
	5985	7	ax (80MHz)	PASS	PASS
	6145	39	ax (80MHz)	PASS	PASS
	6385	87	ax (80MHz)	PASS	PASS
Band 6	6435	97	ax (20MHz)	PASS	PASS
	6475	105	ax (20MHz)	PASS	PASS
	6515	113	ax (20MHz)	PASS	PASS
	6445	99	ax (40MHz)	PASS	PASS
	6485	107	ax (40MHz)	PASS	PASS
	6525	115	ax (40MHz)	PASS	PASS
	6465	103	ax (80MHz)	PASS	PASS
Band 7	6535	117	ax (20MHz)	PASS	PASS
	6695	149	ax (20MHz)	PASS	PASS
	6875	185	ax (20MHz)	PASS	PASS
	6565	123	ax (40MHz)	PASS	PASS
	6725	155	ax (40MHz)	PASS	PASS
	6845	179	ax (40MHz)	PASS	PASS
	6545	119	ax (80MHz)	PASS	PASS
	6705	151	ax (80MHz)	PASS	PASS
	6865	183	ax (80MHz)	PASS	PASS
Band 8	6895	189	ax (20MHz)	PASS	PASS
	6995	209	ax (20MHz)	PASS	PASS
	7115	233	ax (20MHz)	PASS	PASS
	6885	187	ax (40MHz)	PASS	PASS
	7005	211	ax (40MHz)	PASS	PASS
	7085	227	ax (40MHz)	PASS	PASS
	6945	199	ax (80MHz)	PASS	PASS
	7025	215	ax (80MHz)	PASS	PASS

Table 7-27. In Band Emissions Results Measurements (Full Tones) – LPI

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	5935	2	ax (20MHz)	PASS	PASS
	6175	45	ax (20MHz)	PASS	PASS
	6415	93	ax (20MHz)	PASS	PASS
	5965	3	ax (40MHz)	PASS	PASS
	6165	43	ax (40MHz)	PASS	PASS
	6405	91	ax (40MHz)	PASS	PASS
	5985	7	ax (80MHz)	PASS	PASS
	6145	39	ax (80MHz)	PASS	PASS
	6385	87	ax (80MHz)	PASS	PASS
Band 7	6535	117	ax (20MHz)	PASS	PASS
	6695	149	ax (20MHz)	PASS	PASS
	6875	185	ax (20MHz)	PASS	PASS
	6565	123	ax (40MHz)	PASS	PASS
	6725	155	ax (40MHz)	PASS	PASS
	6845	179	ax (40MHz)	PASS	PASS
	6545	119	ax (80MHz)	PASS	PASS
	6705	151	ax (80MHz)	PASS	PASS
	6865	183	ax (80MHz)	PASS	PASS

Table 7-28. In Band Emissions Results Measurements (26 Tones) – SP

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	5935	2	ax (20MHz)	PASS	PASS
	6175	45	ax (20MHz)	PASS	PASS
	6415	93	ax (20MHz)	PASS	PASS
	5965	3	ax (40MHz)	PASS	PASS
	6165	43	ax (40MHz)	PASS	PASS
	6405	91	ax (40MHz)	PASS	PASS
	5985	7	ax (80MHz)	PASS	PASS
	6145	39	ax (80MHz)	PASS	PASS
	6385	87	ax (80MHz)	PASS	PASS
Band 7	6535	117	ax (20MHz)	PASS	PASS
	6695	149	ax (20MHz)	PASS	PASS
	6875	185	ax (20MHz)	PASS	PASS
	6565	123	ax (40MHz)	PASS	PASS
	6725	155	ax (40MHz)	PASS	PASS
	6845	179	ax (40MHz)	PASS	PASS
	6545	119	ax (80MHz)	PASS	PASS
	6705	151	ax (80MHz)	PASS	PASS
	6865	183	ax (80MHz)	PASS	PASS

Table 7-29. In Band Emissions Results Measurements (Full Tones) – SP

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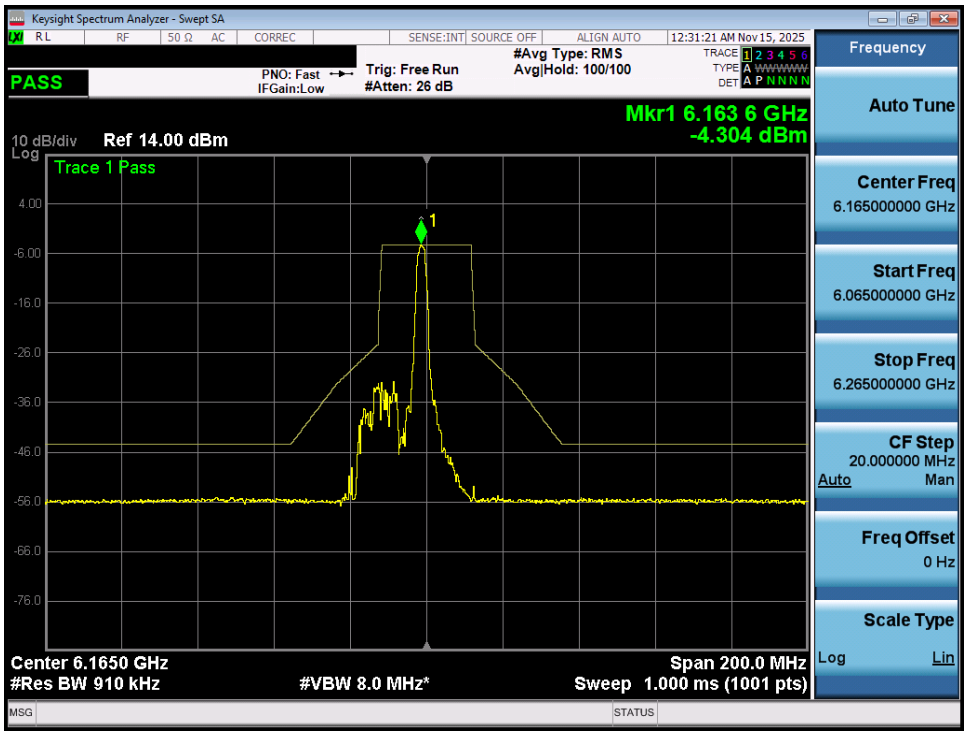
7.5.1 MIMO Antenna-1 In-Band Emission Measurements

Plot 7-49. In Band Emissions Plot MIMO ANT1 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-50. In Band Emissions Plot MIMO ANT1 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - LPI

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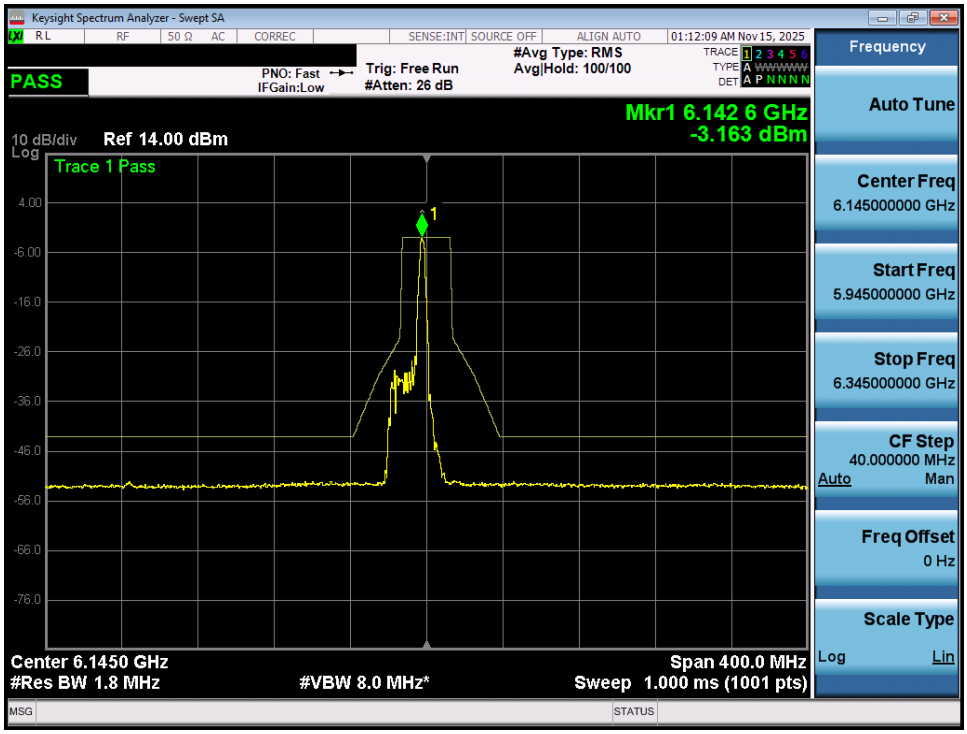
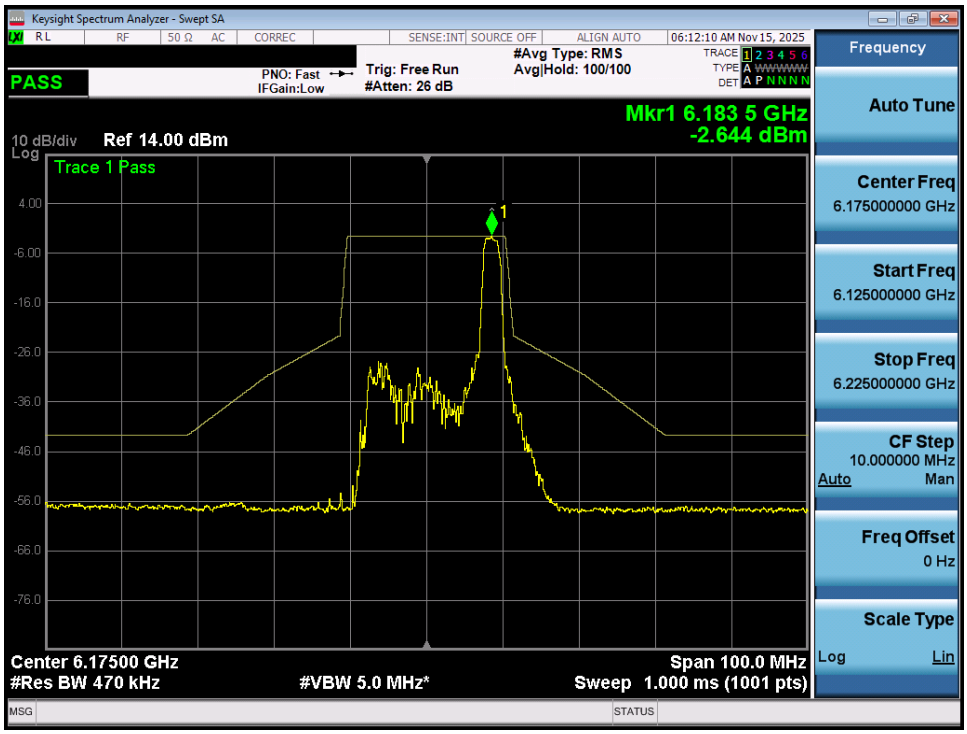


Plot 7-51. In Band Emissions Plot MIMO ANT1 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-52. In Band Emissions Plot MIMO ANT1 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - SP

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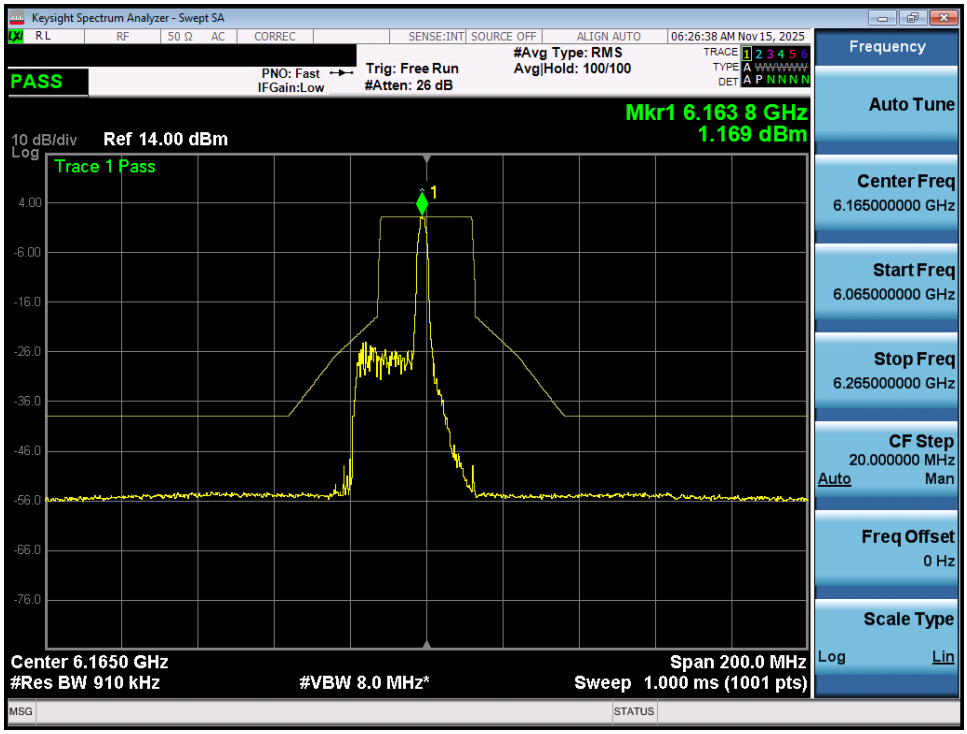
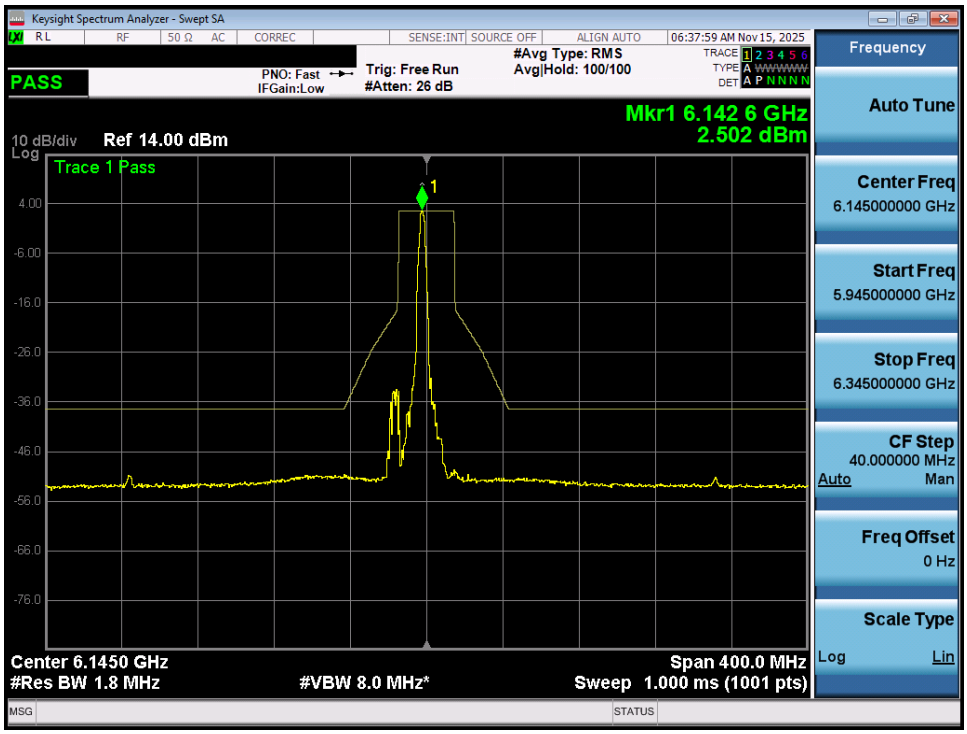


Plot 7-53. In Band Emissions Plot MIMO ANT1 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - SP



Plot 7-54. In Band Emissions Plot MIMO ANT1 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - SP

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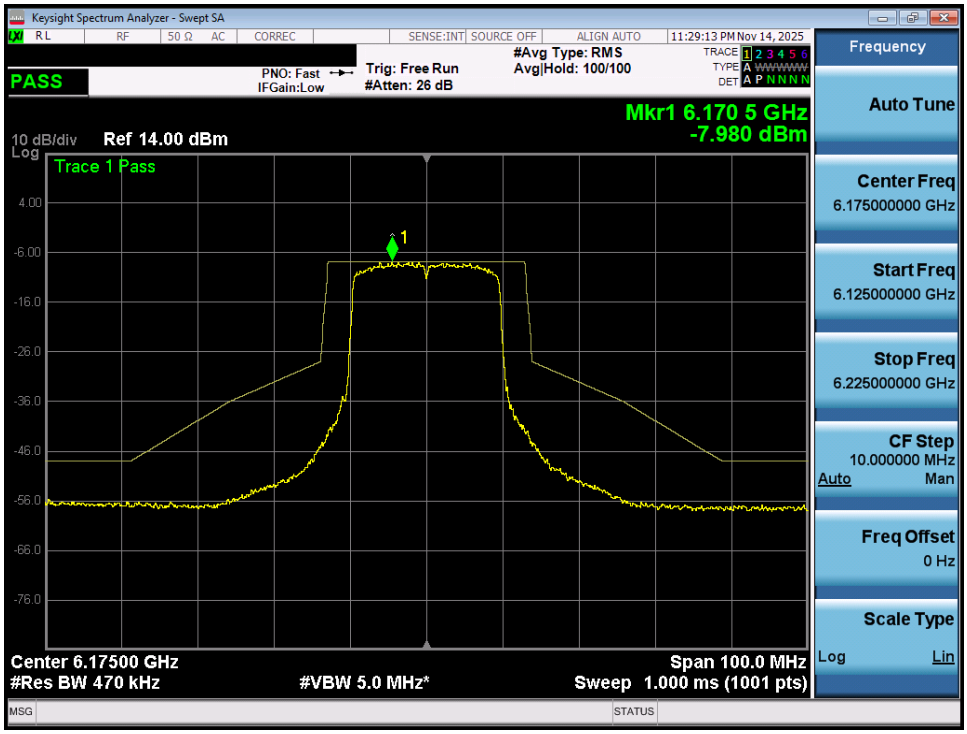
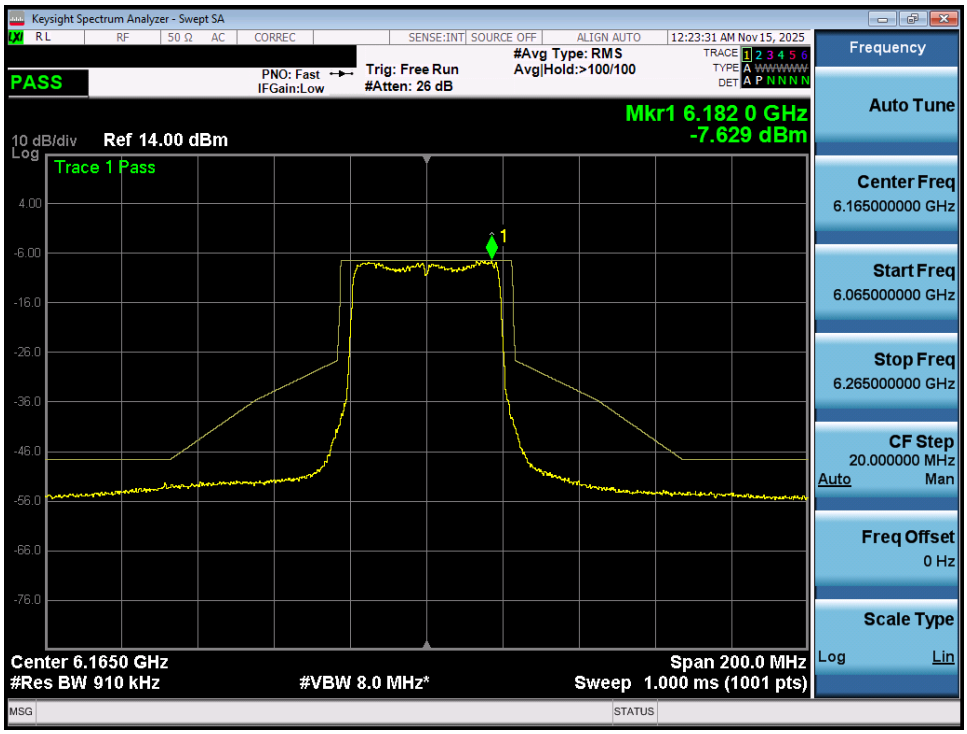


Plot 7-55. In Band Emissions Plot MIMO ANT1 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-56. In Band Emissions Plot MIMO ANT1 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - LPI

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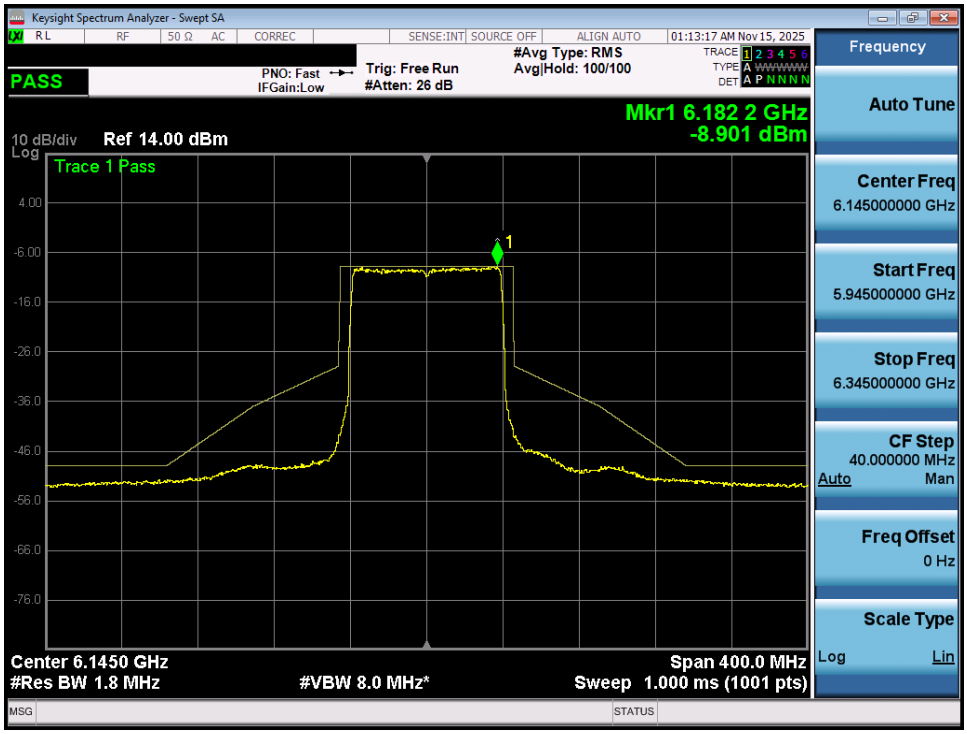
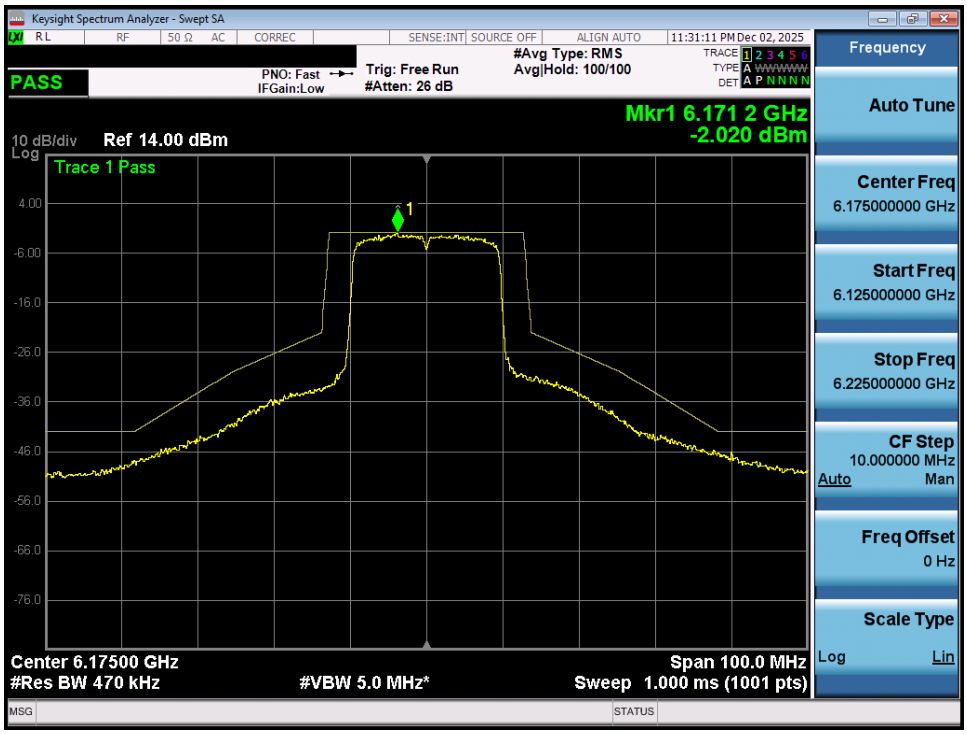


Plot 7-57. In Band Emissions Plot MIMO ANT1 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-58. In Band Emissions Plot MIMO ANT1 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - SP

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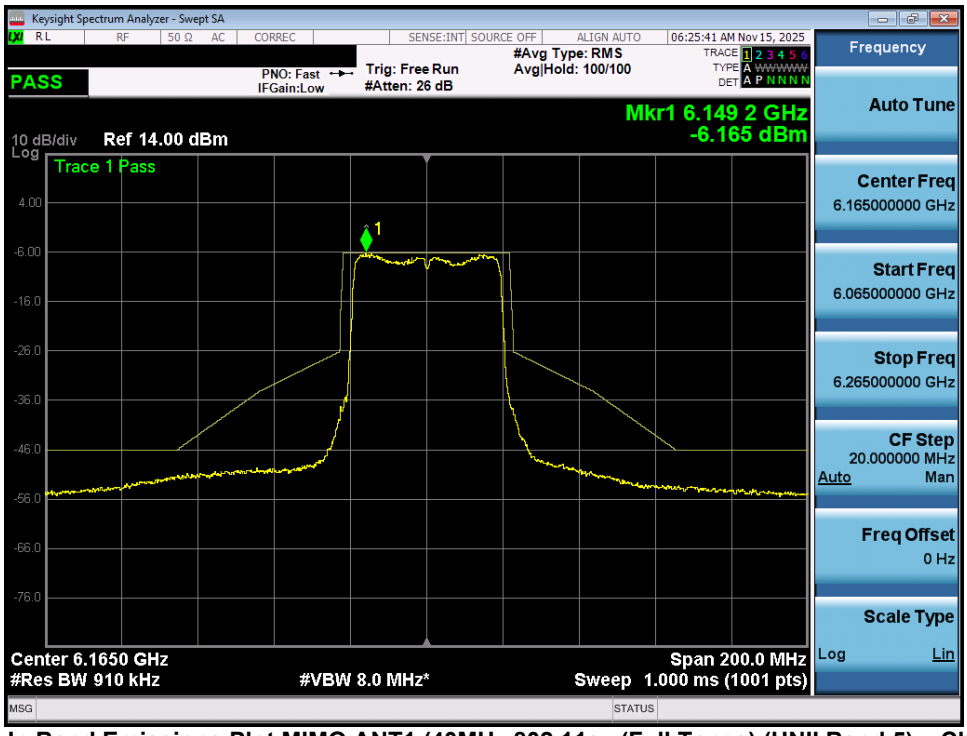
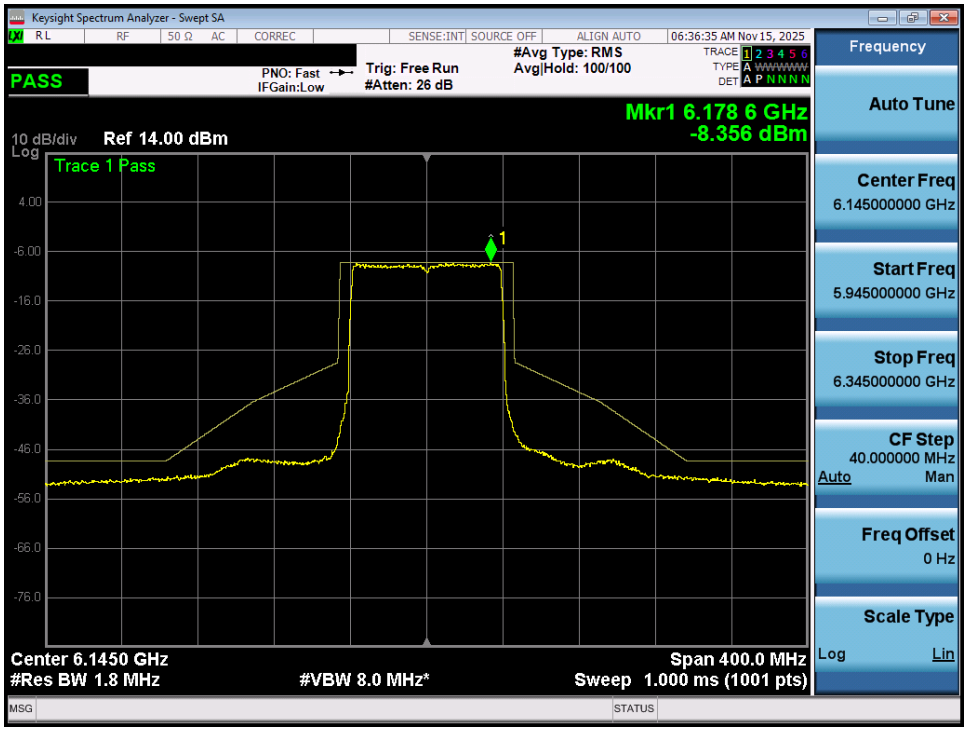


Plot 7-59. In Band Emissions Plot MIMO ANT1 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - SP



Plot 7-60. In Band Emissions Plot MIMO ANT1 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - SP

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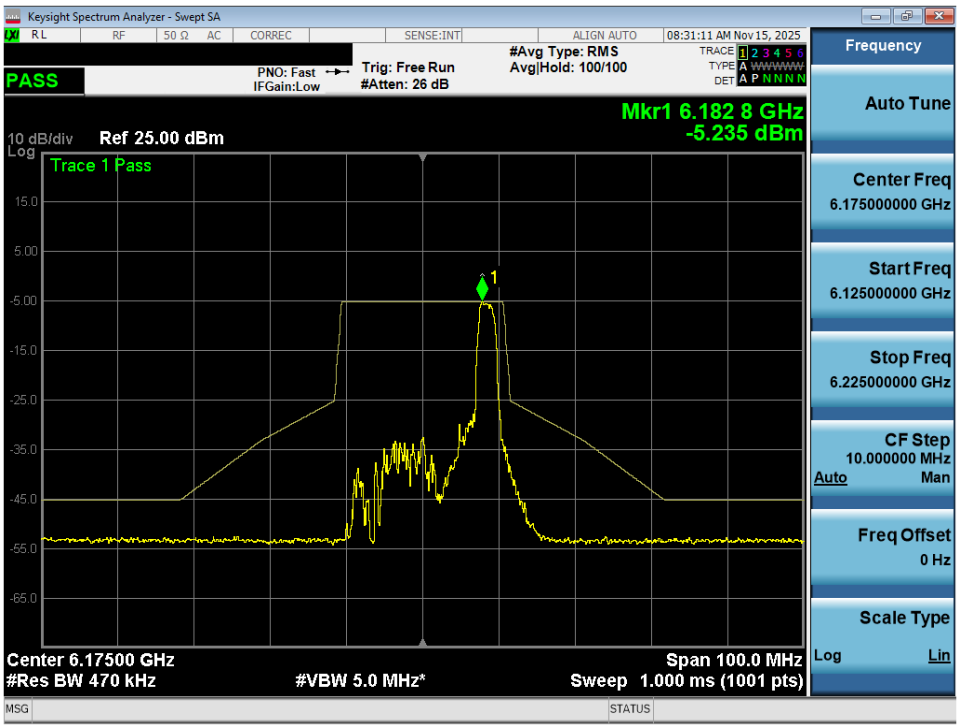
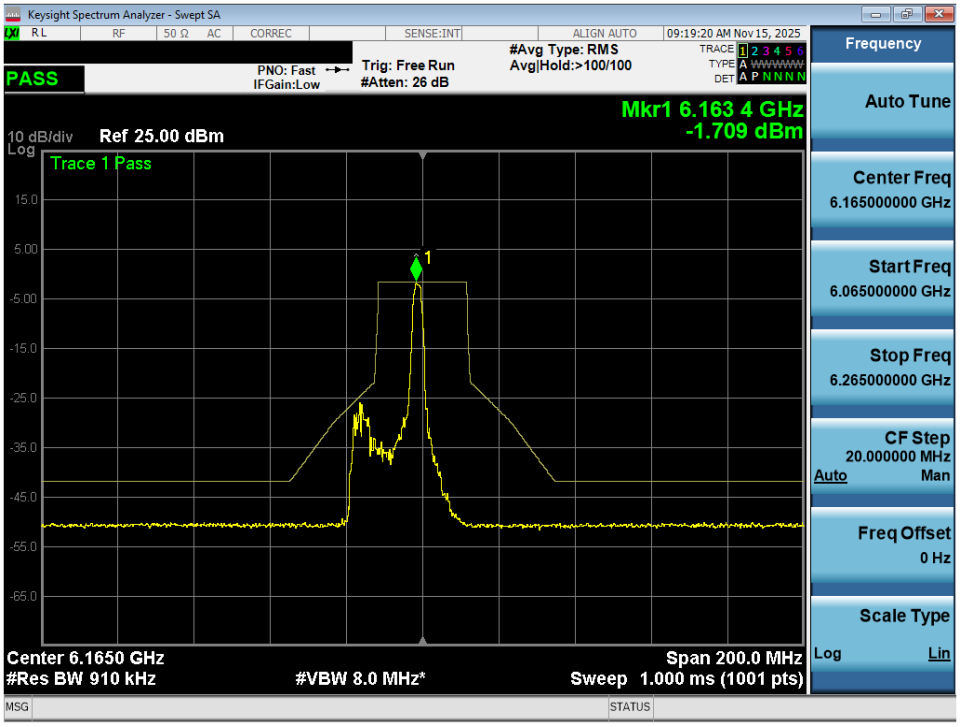
7.5.2 MIMO Antenna-2 In-Band Emission Measurements



Plot 7-61. In Band Emissions Plot MIMO ANT2 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-62. In Band Emissions Plot MIMO ANT2 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - LPI

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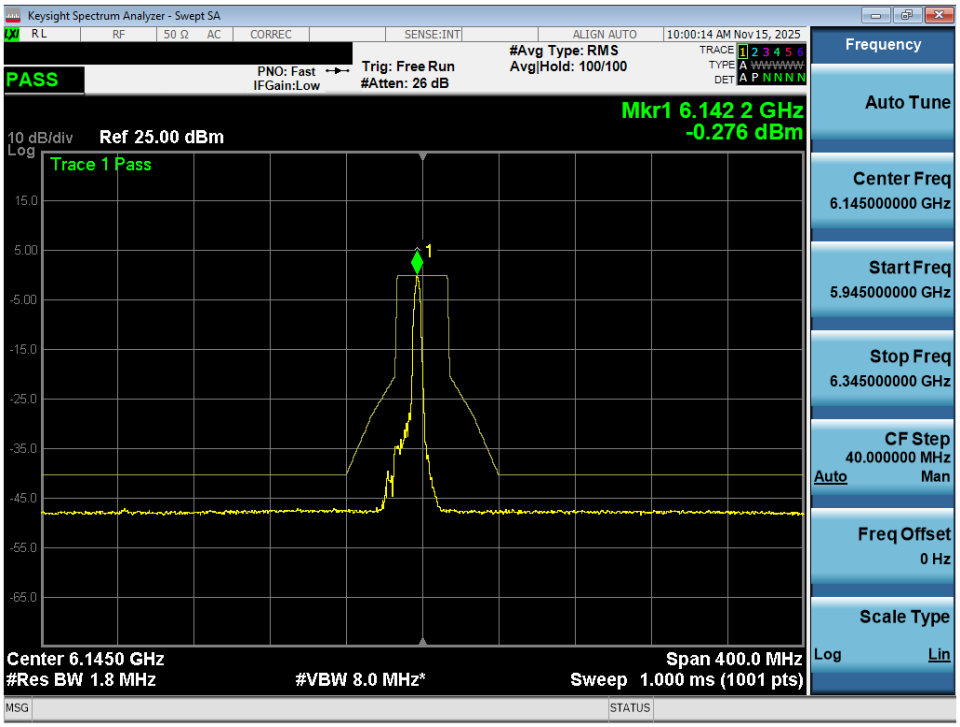
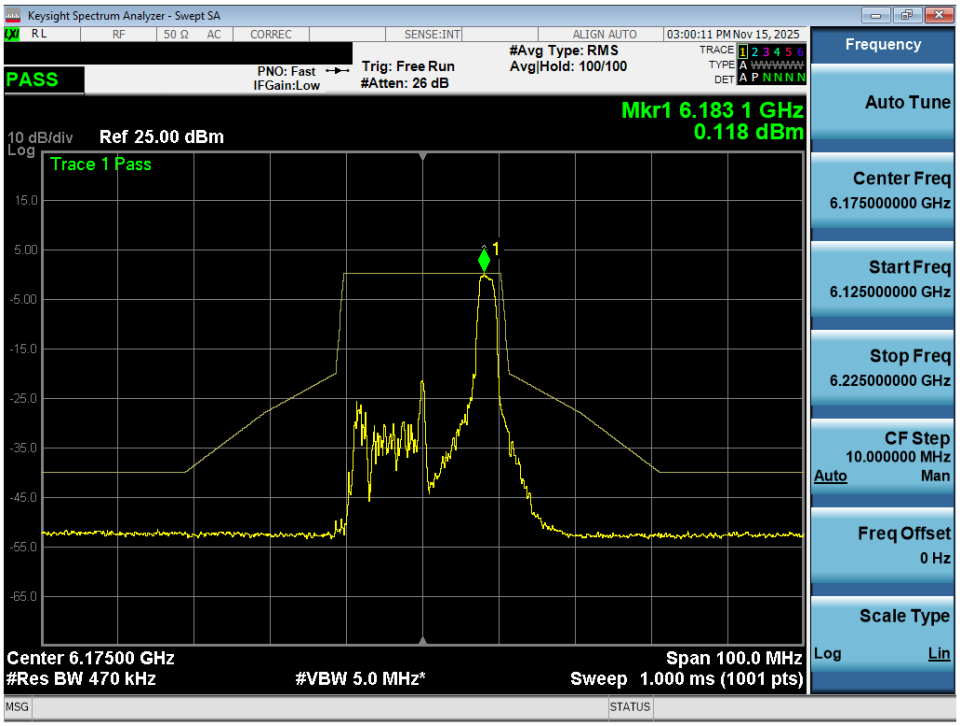


Plot 7-63. In Band Emissions Plot MIMO ANT2 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-64. In Band Emissions Plot MIMO ANT2 (20MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 45) - SP

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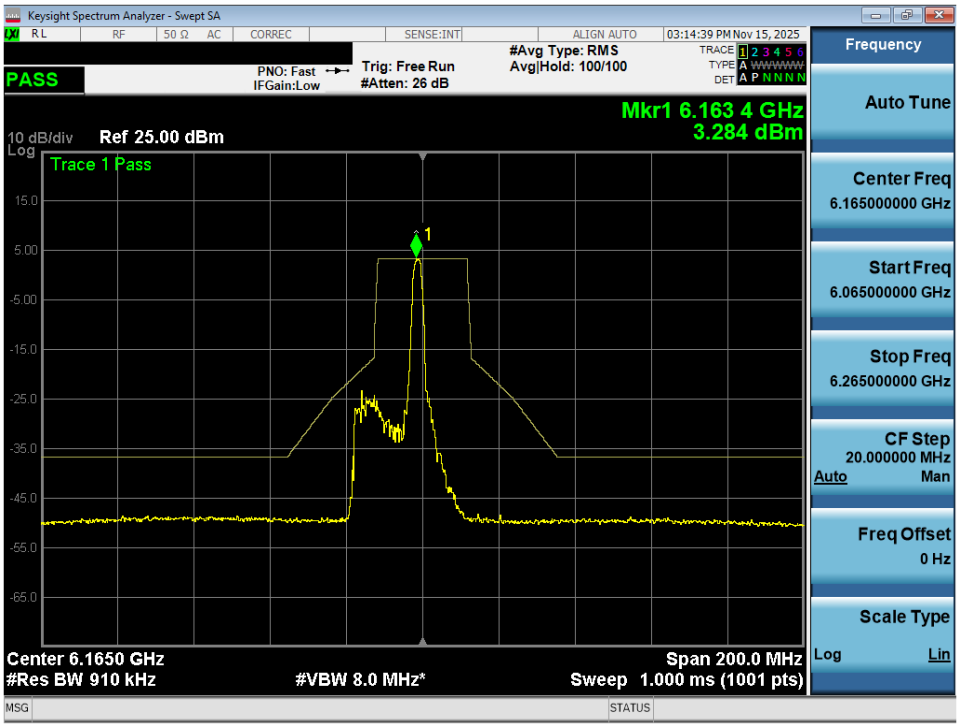
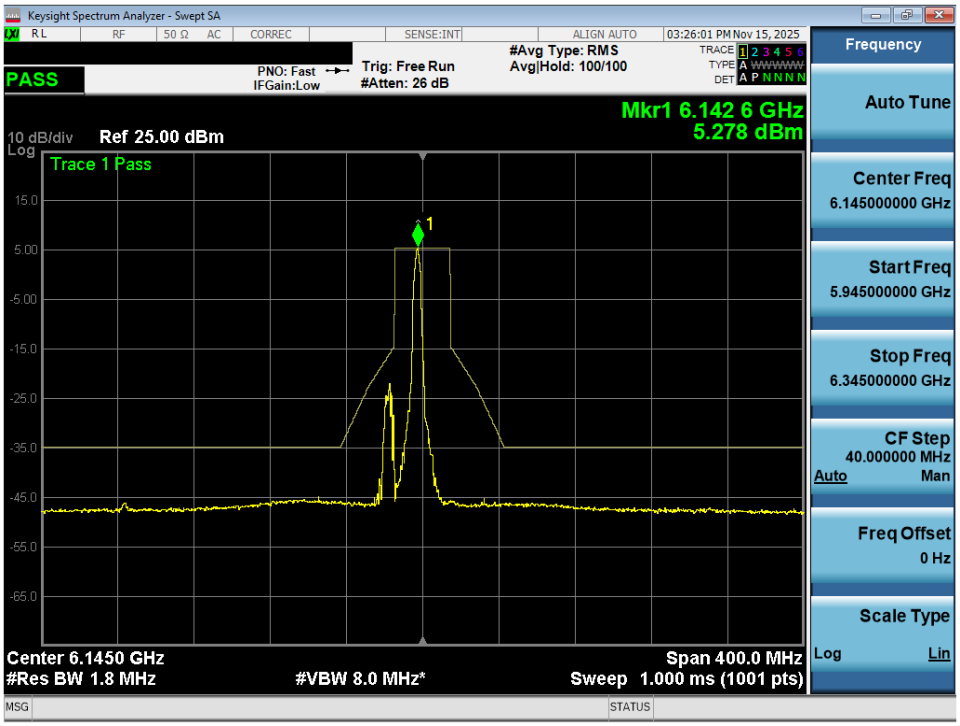


Plot 7-65. In Band Emissions Plot MIMO ANT2 (40MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 43) - SP



Plot 7-66. In Band Emissions Plot MIMO ANT2 (80MHz 802.11ax (26 Tones) (UNII Band 5) – Ch. 39) - SP

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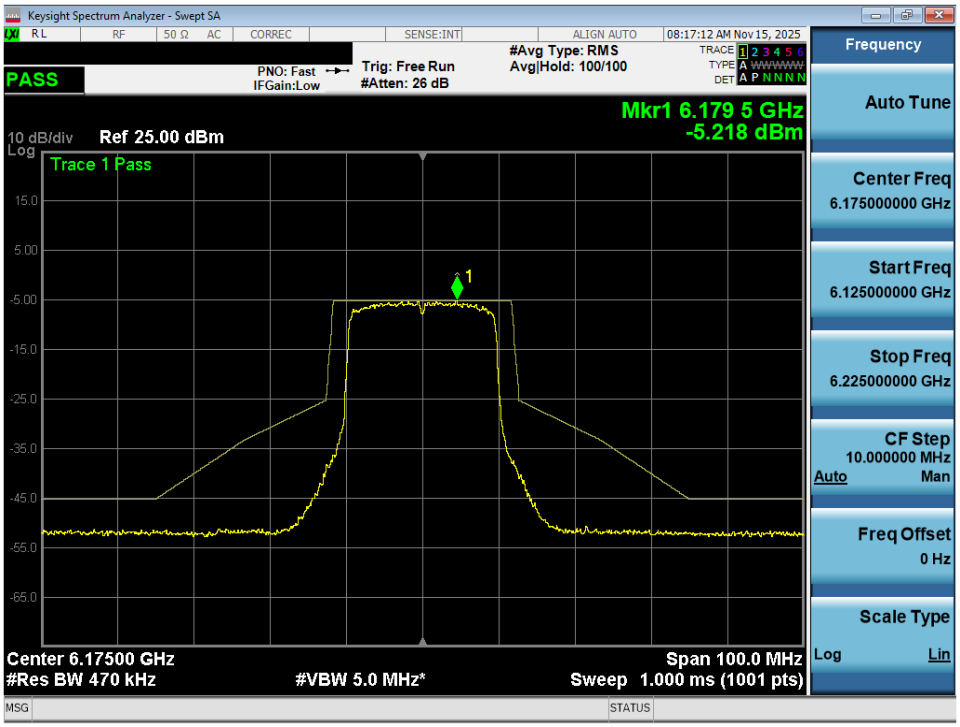
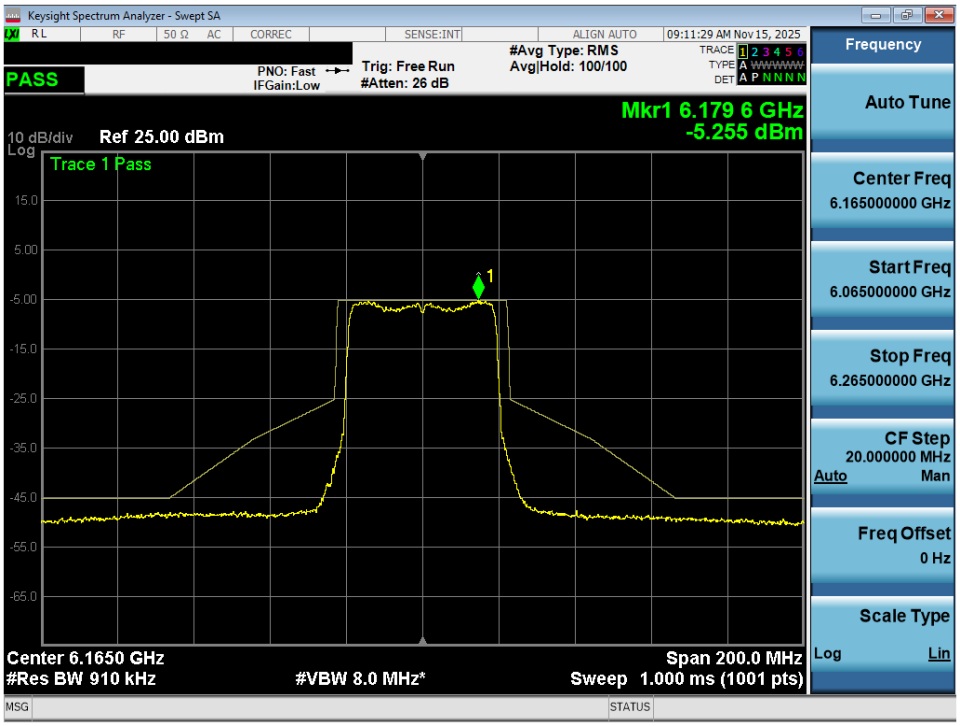


Plot 7-67. In Band Emissions Plot MIMO ANT2 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - LPI



Plot 7-68. In Band Emissions Plot MIMO ANT2 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - LPI

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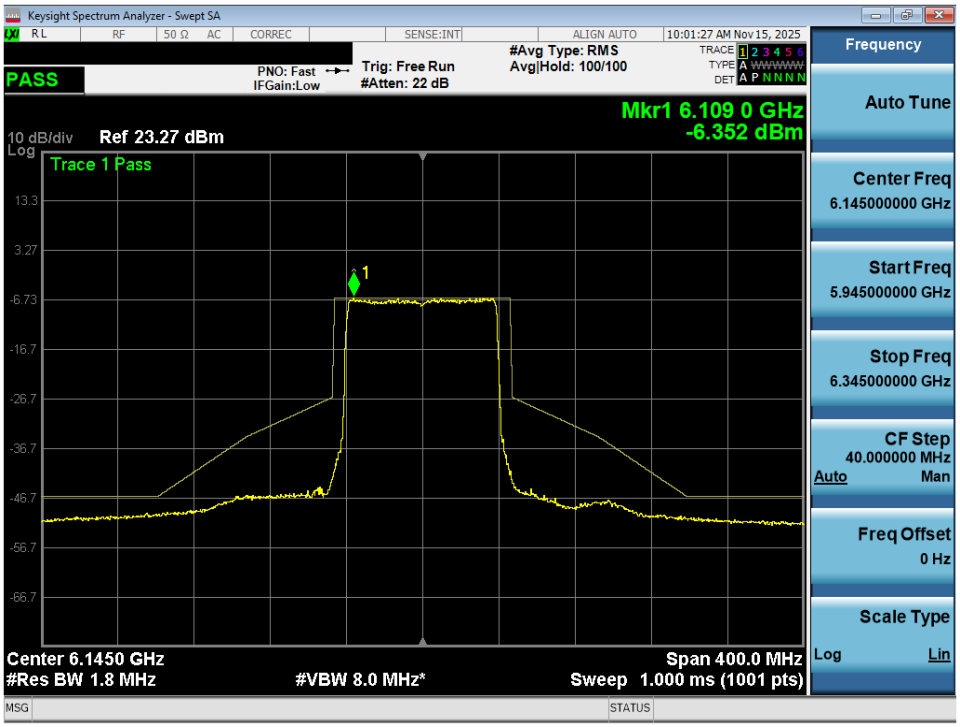
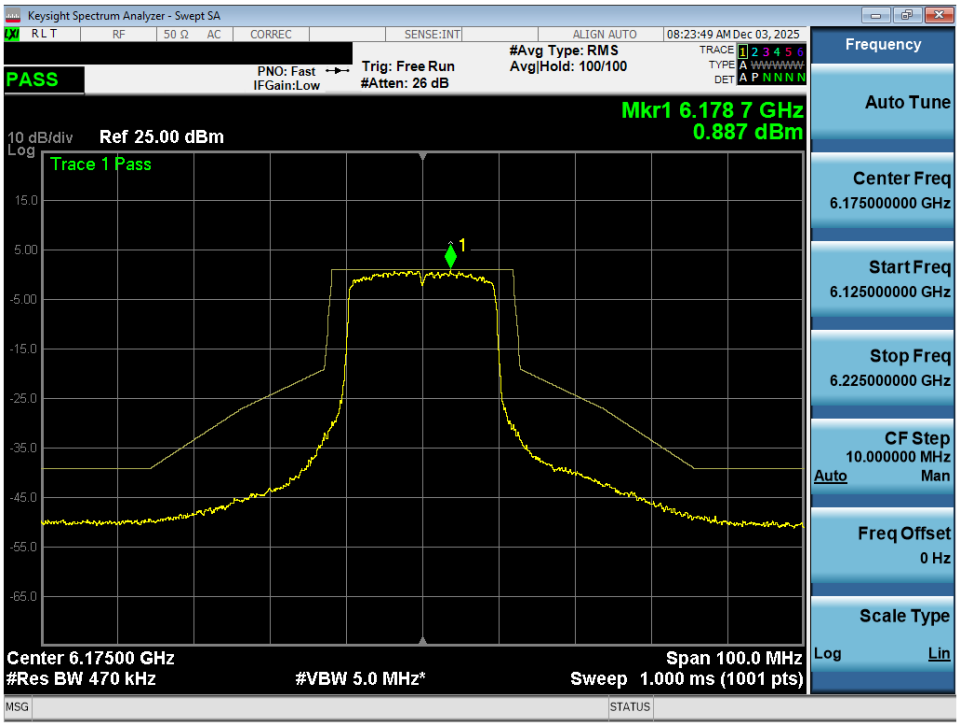


Plot 7-69. In Band Emissions Plot MIMO ANT2 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - LPI



Plot 7-70. In Band Emissions Plot MIMO ANT2 (20MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 45) - SP

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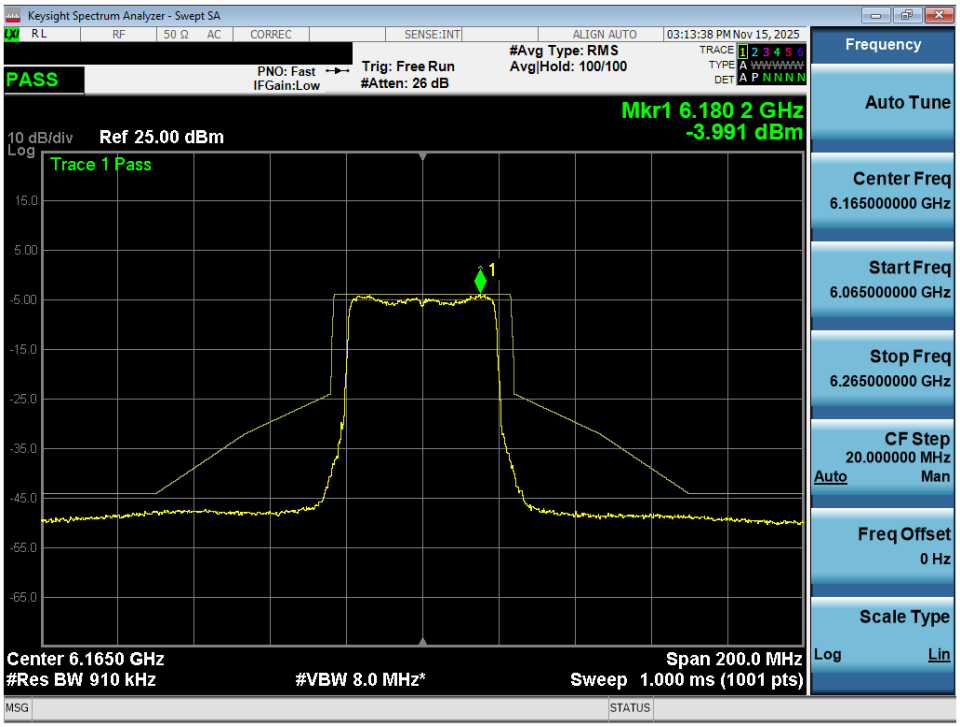
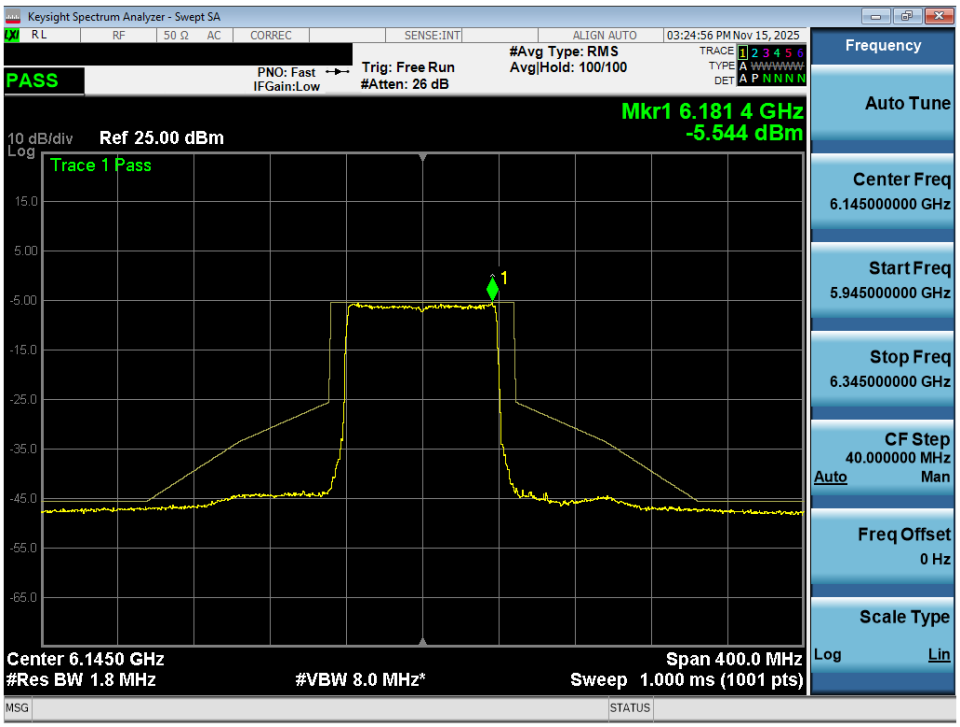


Plot 7-71. In Band Emissions Plot MIMO ANT2 (40MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 43) - SP



Plot 7-72. In Band Emissions Plot MIMO ANT2 (80MHz 802.11ax (Full Tones) (UNII Band 5) – Ch. 39) - SP

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7.6 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax (20/40/80MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz. Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

Frequency	Field Strength [µV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-30. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Sections 12.7.7.2, 12.7.6, 12.7.5

Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be ≥ 2 x span/RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

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Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize.

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

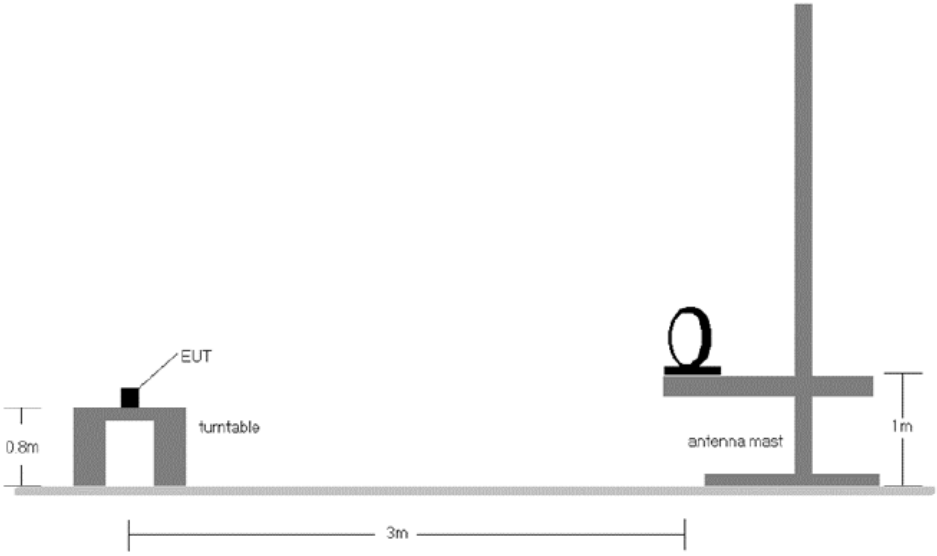

Figure 7-5. Radiated Test Setup < 30MHz

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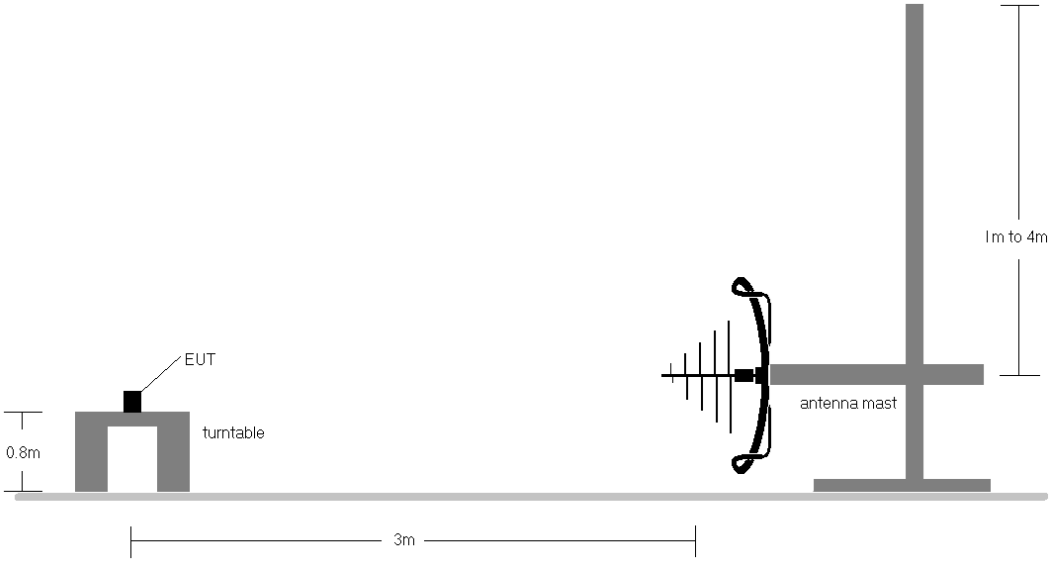

Figure 7-6. Radiated Test Setup < 1GHz

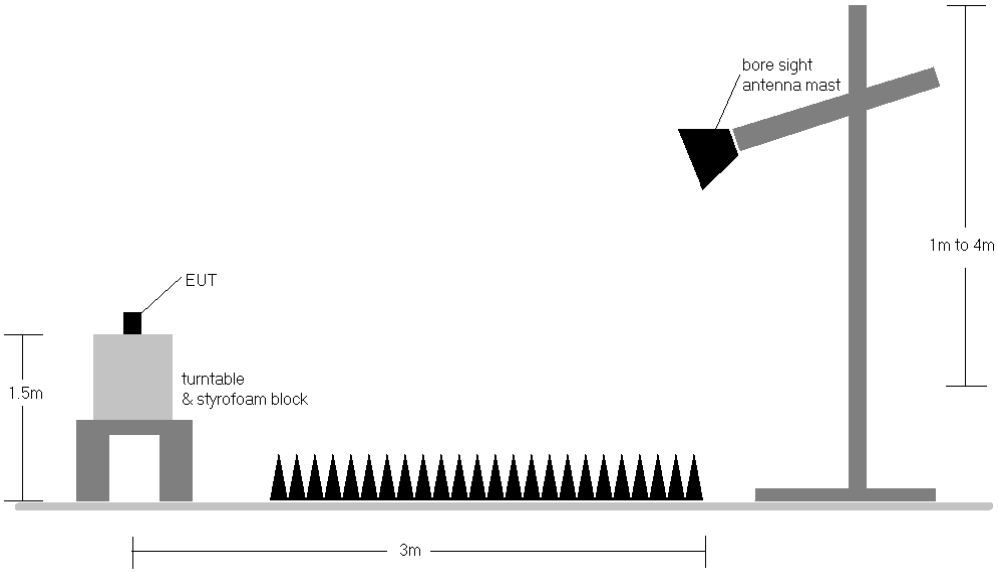

Figure 7-7. Radiated Test Setup > 1GHz

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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dBμV/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
3. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported, however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.
10. In this section, plots showing measurements shown as "channel power" are recorded using the integration methods descrribed in Section 11.12.3.2 of ANSI C63.10:2020 for average and peak measurements as allowed per Section 12.7.4.4.1. Also, the average measurements include the duty cycle correction factor shown in Section 2.2 of this report.

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Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
  Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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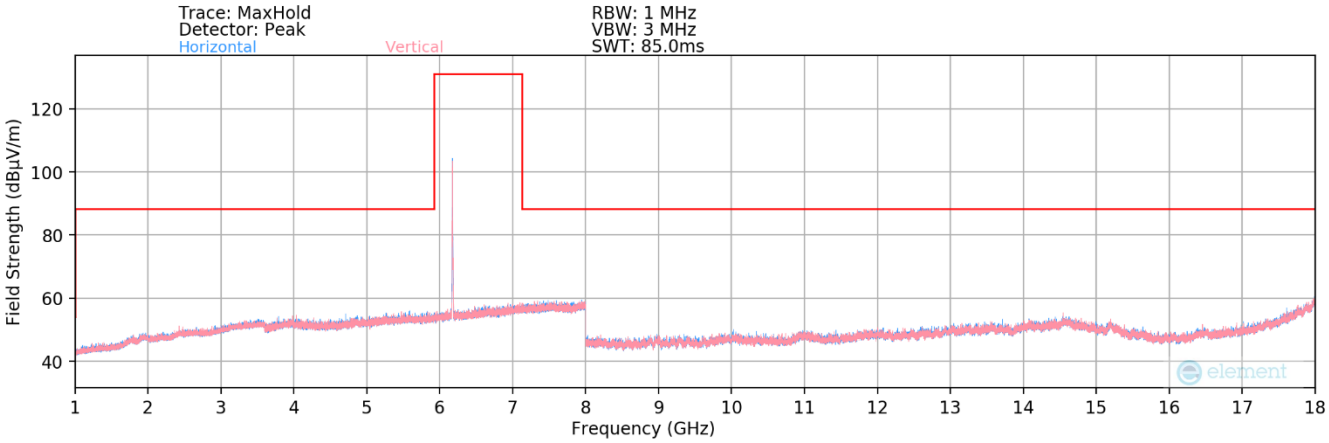
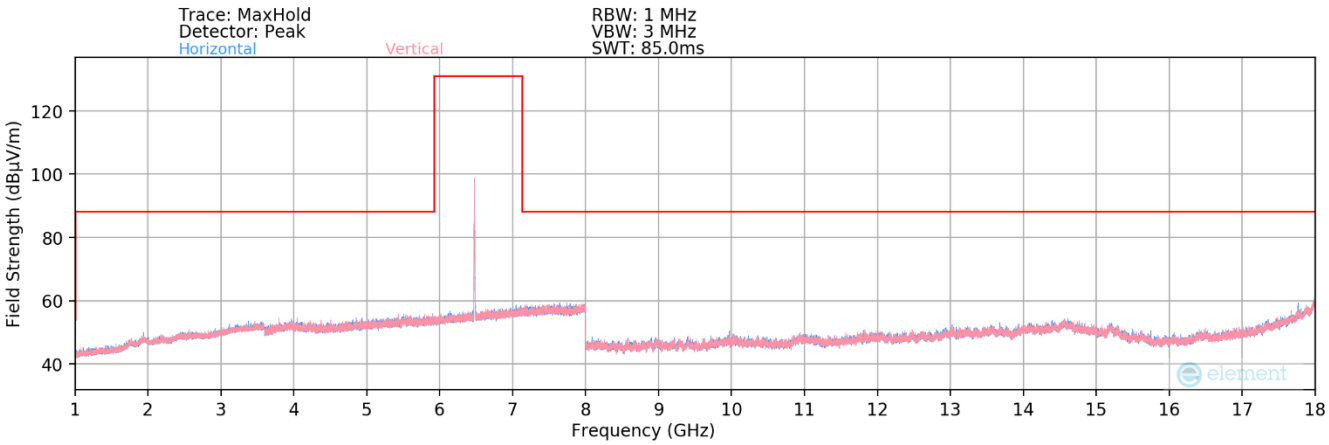
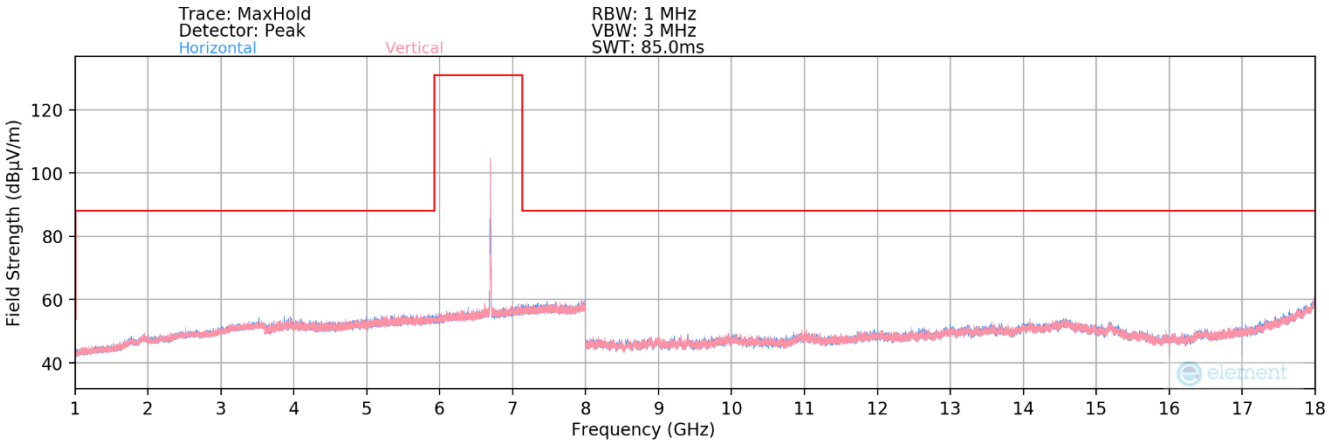
7.6.1 MIMO Radiated Spurious Emission Measurements (26 Tones)



Plot 7-73. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45) – SP



Plot 7-74. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 6 Ch. 105) – LPI



Plot 7-75. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149) – SP

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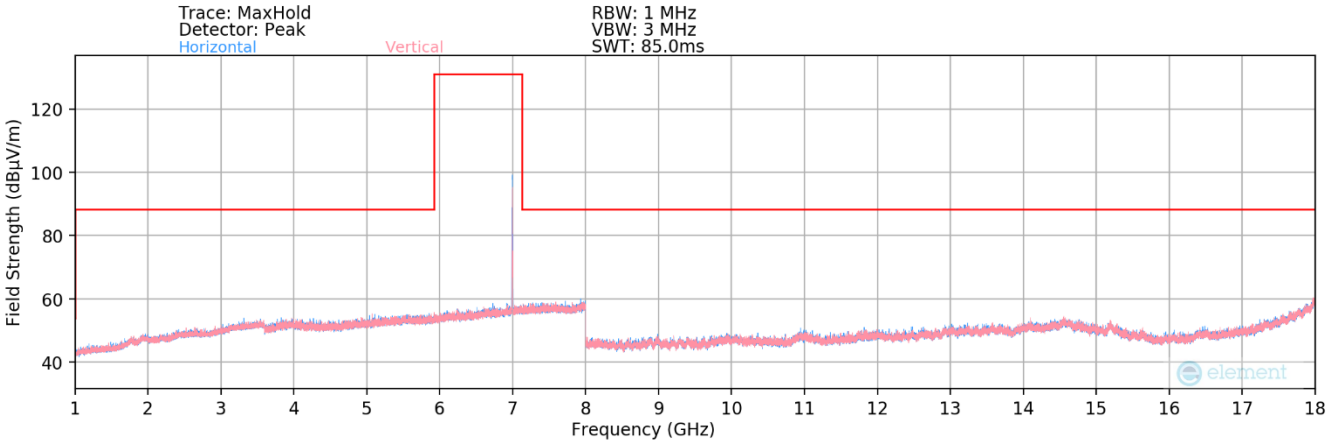
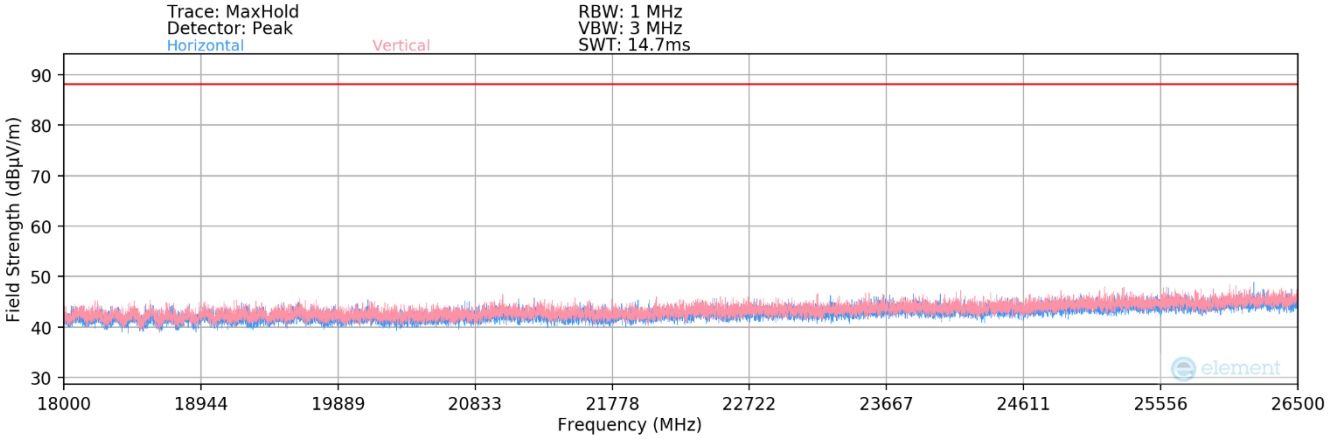
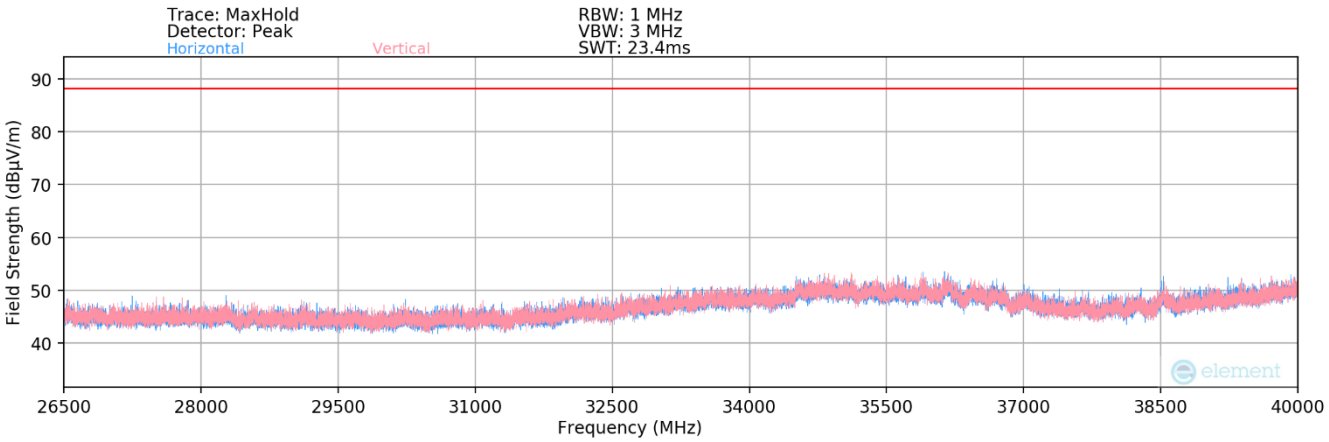


Plot 7-76. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 8 Ch. 209) – LPI



Plot 7-77. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)



Plot 7-78. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

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7.6.1.1 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 5

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax	MIMO	5	2	5935	4	*	11870.00	Average	H	-	-	-82.00	18.24	0.00	43.24	53.98	-10.74
						*	11870.00	Peak	H	-	-	-71.50	18.24	0.00	53.74	73.98	-20.24
						*	17805.00	Average	H	-	-	-82.50	26.33	0.00	50.83	53.98	-3.15
						*	17805.00	Peak	H	-	-	-71.85	26.33	0.00	61.48	73.98	-12.50
						*	23740.00	Average	H	-	-	-67.51	4.02	-9.54	33.97	53.98	-20.01
						*	23740.00	Peak	H	-	-	-56.29	4.02	-9.54	45.19	73.98	-28.79
							29675.00	Peak	H	-	-	-56.95	5.01	-9.54	45.52	68.20	-22.68
			45	6175	4	*	12350.00	Average	H	-	-	-81.69	20.05	0.00	45.36	53.98	-8.62
						*	12350.00	Peak	H	-	-	-71.73	20.05	0.00	55.32	73.98	-18.66
						*	18525.00	Average	H	-	-	-66.01	1.00	-9.54	32.45	53.98	-21.53
						*	18525.00	Peak	H	-	-	-58.30	1.00	-9.54	40.16	73.98	-33.82
							24700.00	Peak	H	-	-	-56.21	4.23	-9.54	45.48	68.20	-22.72
							30875.00	Peak	H	-	-	-57.11	5.66	-9.54	46.00	68.20	-22.20
			93	6415	4		12830.00	Peak	H	-	-	-71.18	20.72	0.00	56.54	68.20	-11.66
						*	19245.00	Average	H	-	-	-66.42	1.74	-9.54	32.78	53.98	-21.20
						*	19245.00	Peak	H	-	-	-58.98	1.74	-9.54	40.22	73.98	-33.76
							25660.00	Peak	H	-	-	-56.68	4.69	-9.54	45.48	68.20	-22.72
							32075.00	Peak	H	-	-	-55.72	6.47	-9.54	48.21	68.20	-19.99

Table 7-31. Radiated Measurements MIMO (26 Tones) – SP

7.6.1.2 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 6

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax	MIMO	6	97	6435	4		12870.00	Peak	H	-	-	-71.09	20.62	0.00	56.53	68.20	-11.67
						*	19305.00	Average	H	-	-	-66.28	1.65	-9.54	32.83	53.98	-21.15
						*	19305.00	Peak	H	-	-	-58.03	1.65	-9.54	41.08	73.98	-32.90
							25740.00	Peak	H	-	-	-56.69	4.71	-9.54	45.48	68.20	-22.72
							32175.00	Peak	H	-	-	-57.85	6.76	-9.54	46.37	68.20	-21.83
			105	6475	4		12950.00	Peak	H	-	-	-71.39	20.85	0.00	56.46	68.20	-11.74
						*	19425.00	Average	H	-	-	-66.41	1.76	-9.54	32.81	53.98	-21.16
						*	19425.00	Peak	H	-	-	-59.90	1.76	-9.54	39.32	73.98	-34.66
							25900.00	Peak	H	-	-	-56.97	4.78	-9.54	45.27	68.20	-22.93
							32375.00	Peak	H	-	-	-57.22	6.56	-9.54	46.80	68.20	-21.40
			113	6515	4		13030.00	Peak	H	-	-	-71.80	20.92	0.00	56.12	68.20	-12.08
						*	19545.00	Average	H	-	-	-66.40	1.89	-9.54	32.96	53.98	-21.02
						*	19545.00	Peak	H	-	-	-57.16	1.89	-9.54	42.19	73.98	-31.79
							26060.00	Peak	H	-	-	-56.76	4.92	-9.54	45.62	68.20	-22.58
							32575.00	Peak	H	-	-	-56.95	6.76	-9.54	47.26	68.20	-20.94

Table 7-32. Radiated Measurements MIMO (26 Tones) – LPI

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7.6.1.3 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 7

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax	MIMO	7	117	6535	4		13070.00	Peak	H	-	-	-71.21	20.47	0.00	56.26	68.20	-11.94
						*	19605.00	Average	H	-	-	-67.14	2.20	-9.54	32.52	53.98	-21.46
						*	19605.00	Peak	H	-	-	-56.00	2.20	-9.54	43.66	73.98	-30.32
							26140.00	Peak	H	-	-	-56.03	4.98	-9.54	46.40	68.20	-21.80
							32675.00	Peak	H	-	-	-56.70	7.14	-9.54	47.90	68.20	-20.30
			149	6695	4	*	13390.00	Average	H	-	-	-82.03	21.45	0.00	46.42	53.98	-7.56
						*	13390.00	Peak	H	-	-	-72.10	21.45	0.00	56.35	73.98	-17.63
						*	20085.00	Average	H	-	-	-66.69	2.07	-9.54	32.84	53.98	-21.14
						*	20085.00	Peak	H	-	-	-55.95	2.07	-9.54	43.58	73.98	-30.40
							26780.00	Peak	H	-	-	-57.47	5.18	-9.54	45.17	68.20	-23.03
							33475.00	Peak	H	-	-	-56.74	8.48	-9.54	49.20	68.20	-19.00
			185	6875	4		13750.00	Peak	H	-	-	-71.53	21.82	0.00	57.29	68.20	-10.91
						*	20625.00	Average	H	-	-	-67.07	2.36	-9.54	32.75	53.98	-21.23
						*	20625.00	Peak	H	-	-	-59.63	2.36	-9.54	40.19	73.98	-33.79
							27500.00	Peak	H	-	-	-56.42	5.00	-9.54	46.04	68.20	-22.16
							34375.00	Peak	H	-	-	-56.88	9.46	-9.54	50.04	68.20	-18.16

Table 7-33. Radiated Measurements MIMO (26 Tones) – SP

7.6.1.4 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 8

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax	MIMO	8	189	6895	4		13790.00	Peak	H	-	-	-71.84	21.57	0.00	56.73	68.20	-11.47
						*	20685.00	Average	H	-	-	-66.69	2.33	-9.54	33.11	53.98	-20.87
						*	20685.00	Peak	H	-	-	-58.88	2.33	-9.54	40.91	73.98	-33.07
							27580.00	Peak	H	-	-	-57.55	5.33	-9.54	45.24	68.20	-22.96
							34475.00	Peak	H	-	-	-57.14	9.33	-9.54	49.64	68.20	-18.56
			209	6995	4		13990.00	Peak	H	-	-	-72.20	21.96	0.00	56.76	68.20	-11.44
						*	20985.00	Average	H	-	-	-66.87	2.83	-9.54	33.42	53.98	-20.56
						*	20985.00	Peak	H	-	-	-56.63	2.83	-9.54	43.66	73.98	-30.32
							27980.00	Peak	H	-	-	-56.37	5.30	-9.54	46.38	68.20	-21.82
							34975.00	Peak	H	-	-	-57.57	9.79	-9.54	49.68	68.20	-18.52
			233	7115	4		14230.00	Peak	H	-	-	-71.16	22.66	0.00	58.50	68.20	-9.70
						*	21345.00	Average	H	-	-	-66.84	2.85	-9.54	33.47	53.98	-20.51
						*	21345.00	Peak	H	-	-	-60.78	2.85	-9.54	39.53	73.98	-34.45
							28460.00	Peak	H	-	-	-56.82	5.34	-9.54	45.98	68.20	-22.22
							35575.00	Peak	H	-	-	-57.60	9.53	-9.54	49.39	68.20	-18.81

Table 7-34. Radiated Measurements MIMO (26 Tones) – LPI

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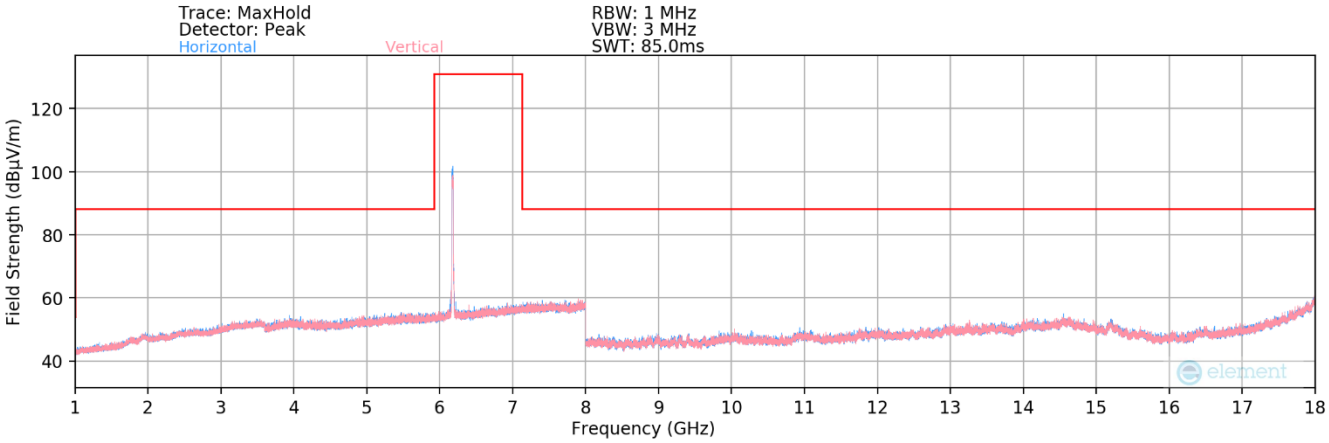
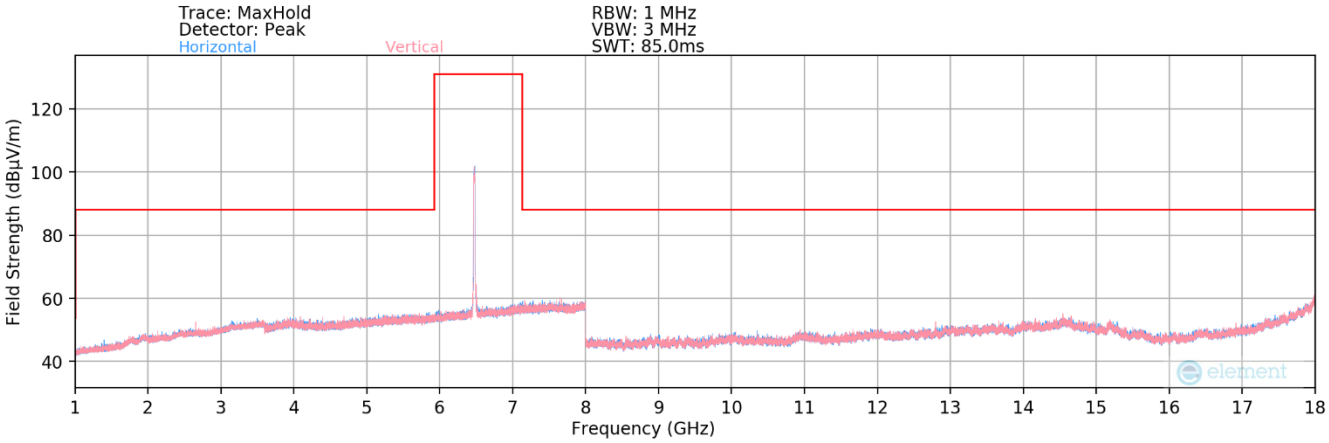
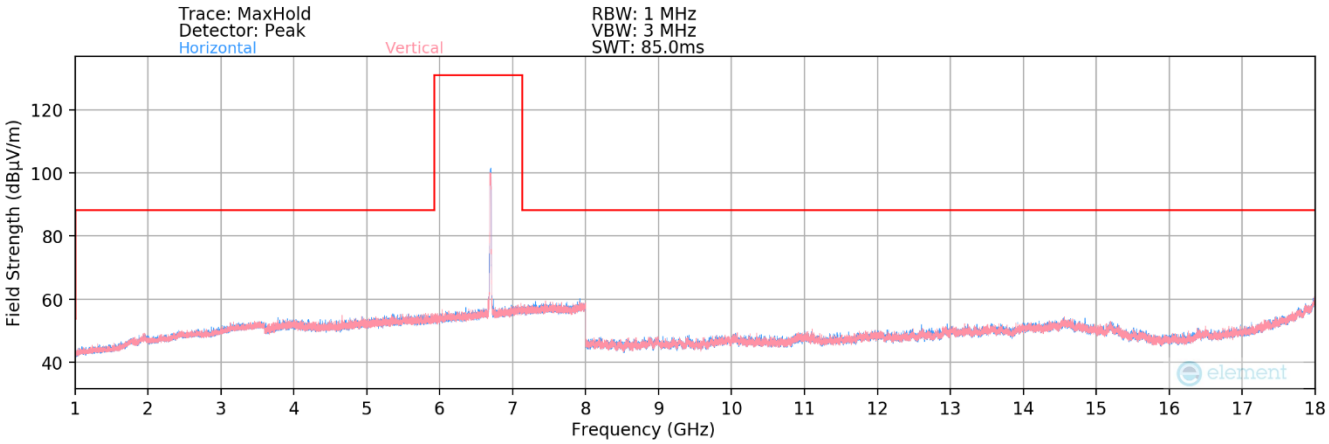
7.6.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



Plot 7-79. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45) – SP



Plot 7-80. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 6 Ch. 105) – LPI



Plot 7-81. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149) – SP

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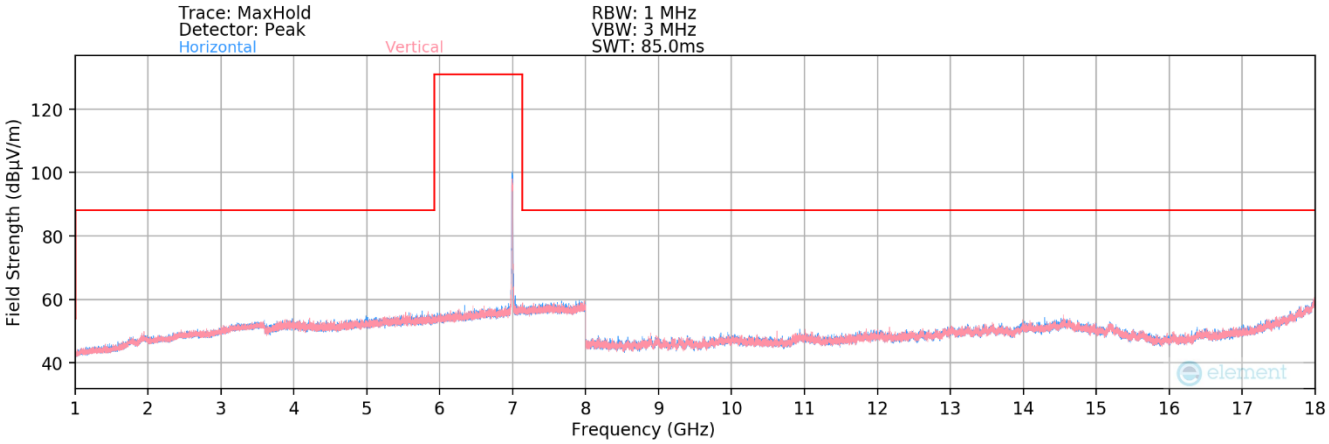
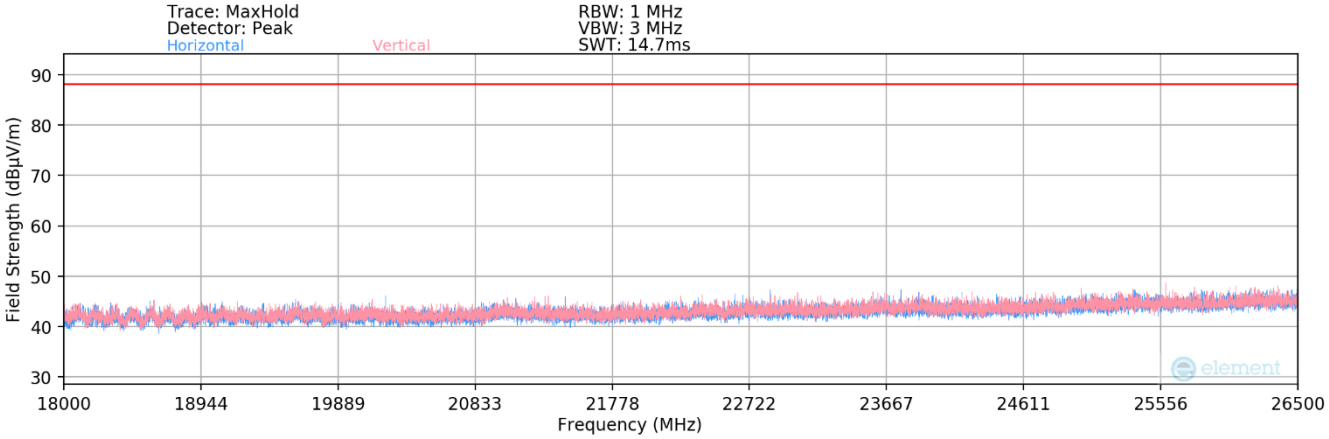
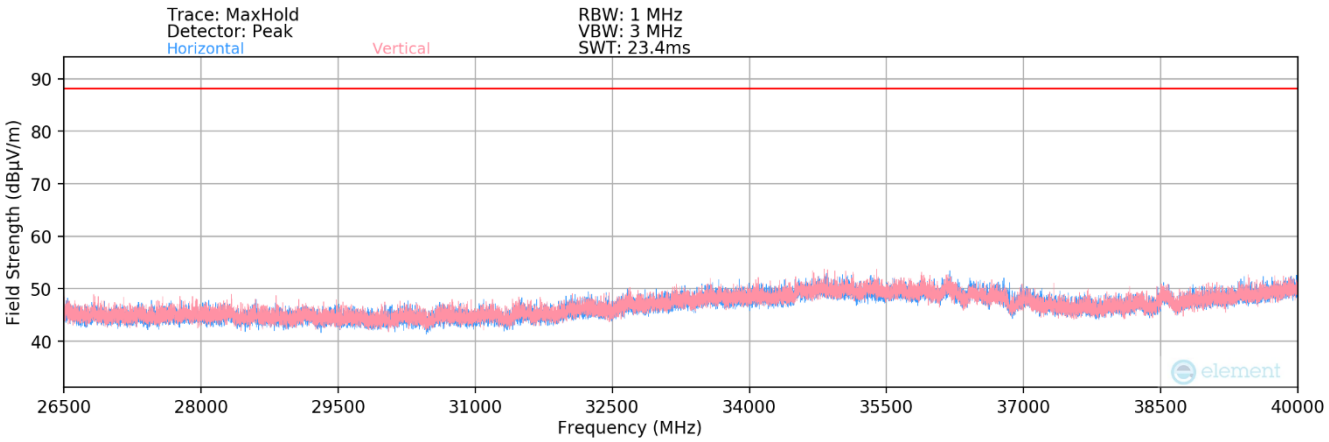


Plot 7-82. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – U Band 8 Ch. 209) – LPI



Plot 7-83. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)



Plot 7-84. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

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7.6.2.1 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 5

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax	MIMO	5	2	5935	61	*	11870.00	Average	H	124	333	-74.98	18.24	0.00	50.26	53.98	-3.72
						*	11870.00	Peak	H	124	333	-62.11	18.24	0.00	63.13	73.98	-10.85
						*	17805.00	Average	H	-	-	-82.75	26.33	0.00	50.58	53.98	-3.40
						*	17805.00	Peak	H	-	-	-72.13	26.33	0.00	61.20	73.98	-12.78
						*	23740.00	Average	H	-	-	-66.71	4.02	-9.54	34.78	53.98	-19.20
						*	23740.00	Peak	H	-	-	-59.36	4.02	-9.54	42.12	73.98	-31.85
							29675.00	Peak	H	-	-	-56.10	5.01	-9.54	46.36	68.20	-21.84
			45	6175	61	*	12350.00	Average	H	107	338	-76.18	20.05	0.00	50.87	53.98	-3.11
						*	12350.00	Peak	H	107	338	-63.23	20.05	0.00	63.82	73.98	-10.16
						*	18525.00	Average	H	-	-	-65.88	1.00	-9.54	32.58	53.98	-21.40
						*	18525.00	Peak	H	-	-	-57.71	1.00	-9.54	40.75	73.98	-33.23
							24700.00	Peak	H	-	-	-56.83	4.23	-9.54	44.86	68.20	-23.34
							30875.00	Peak	H	-	-	-56.98	5.66	-9.54	46.13	68.20	-22.07
			93	6415	61		12830.00	Peak	H	-	-	-66.52	20.72	0.00	61.20	68.20	-7.00
						*	19245.00	Average	H	-	-	-66.03	1.74	-9.54	33.16	53.98	-20.82
						*	19245.00	Peak	H	-	-	-58.13	1.74	-9.54	41.07	73.98	-32.91
							25660.00	Peak	H	-	-	-56.42	4.69	-9.54	45.74	68.20	-22.46
							32075.00	Peak	H	-	-	-57.06	6.47	-9.54	46.87	68.20	-21.33

Table 7-35. Radiated Measurements MIMO (242 Tones) – SP

7.6.2.2 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 6

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax	MIMO	6	97	6435	61		12870.00	Peak	H	-	-	-71.47	20.62	0.00	56.15	68.20	-12.05
						*	19305.00	Average	H	-	-	-66.29	1.65	-9.54	32.82	53.98	-21.16
						*	19305.00	Peak	H	-	-	-56.33	1.65	-9.54	42.78	73.98	-31.20
							25740.00	Peak	H	-	-	-56.84	4.71	-9.54	45.33	68.20	-22.87
							32175.00	Peak	H	-	-	-57.57	6.76	-9.54	46.65	68.20	-21.55
			105	6475	61		12950.00	Peak	H	-	-	-71.53	20.85	0.00	56.32	68.20	-11.88
						*	19425.00	Average	H	-	-	-66.37	1.76	-9.54	32.85	53.98	-21.13
						*	19425.00	Peak	H	-	-	-58.55	1.76	-9.54	40.67	73.98	-33.31
							25900.00	Peak	H	-	-	-56.69	4.78	-9.54	45.55	68.20	-22.65
							32375.00	Peak	H	-	-	-56.99	6.56	-9.54	47.03	68.20	-21.17
			113	6515	61		13030.00	Peak	H	-	-	-71.43	20.92	0.00	56.49	68.20	-11.71
						*	19545.00	Average	H	-	-	-66.39	1.89	-9.54	32.97	53.98	-21.01
						*	19545.00	Peak	H	-	-	-59.18	1.89	-9.54	40.17	73.98	-33.81
							26060.00	Peak	H	-	-	-56.63	4.92	-9.54	45.75	68.20	-22.45
							32575.00	Peak	H	-	-	-57.19	6.76	-9.54	47.03	68.20	-21.17

Table 7-36. Radiated Measurements MIMO (242 Tones) – LPI

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7.6.2.3 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 7

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax	MIMO	7	117	6535	61		13070.00	Peak	H	-	-	-66.84	20.47	0.00	60.63	68.20	-7.57
						*	19605.00	Average	H	-	-	-66.58	2.20	-9.54	33.08	53.98	-20.89
						*	19605.00	Peak	H	-	-	-55.37	2.20	-9.54	44.29	73.98	-29.69
							26140.00	Peak	H	-	-	-56.18	4.98	-9.54	46.26	68.20	-21.94
							32675.00	Peak	H	-	-	-57.26	7.14	-9.54	47.33	68.20	-20.87
			149	6695	61	*	13390.00	Average	H	-	-	-77.99	21.45	0.00	50.46	53.98	-3.52
						*	13390.00	Peak	H	-	-	-65.97	21.45	0.00	62.48	73.98	-11.50
						*	20085.00	Average	H	-	-	-64.14	2.07	-9.54	35.39	53.98	-18.59
						*	20085.00	Peak	H	-	-	-53.95	2.07	-9.54	45.58	73.98	-28.40
							26780.00	Peak	H	-	-	-56.59	5.18	-9.54	46.05	68.20	-22.15
							33475.00	Peak	H	-	-	-57.53	8.48	-9.54	48.42	68.20	-19.78
			185	6875	61		13750.00	Peak	H	-	-	-66.53	21.82	0.00	62.29	68.20	-5.91
						*	20625.00	Average	H	-	-	-67.31	2.36	-9.54	32.51	53.98	-21.47
						*	20625.00	Peak	H	-	-	-56.53	2.36	-9.54	43.29	73.98	-30.69
							27500.00	Peak	H	-	-	-56.08	5.00	-9.54	46.39	68.20	-21.81
							34375.00	Peak	H	-	-	-57.65	9.46	-9.54	49.27	68.20	-18.93

Table 7-37. Radiated Measurements MIMO (242 Tones) – SP

7.6.2.4 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 8

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax	MIMO	8	189	6895	61		13790.00	Peak	H	-	-	-67.69	21.57	0.00	60.88	68.20	-7.32
						*	20685.00	Average	H	-	-	-71.53	2.33	-9.54	28.26	53.98	-25.72
						*	20685.00	Peak	H	-	-	-56.60	2.33	-9.54	43.20	73.98	-30.78
							27580.00	Peak	H	-	-	-56.10	5.33	-9.54	46.69	68.20	-21.51
							34475.00	Peak	H	-	-	-56.79	9.33	-9.54	49.99	68.20	-18.21
			209	6995	61		13990.00	Peak	H	-	-	-72.06	21.96	0.00	56.90	68.20	-11.30
						*	20985.00	Average	H	-	-	-66.69	2.83	-9.54	33.60	53.98	-20.38
						*	20985.00	Peak	H	-	-	-57.27	2.83	-9.54	43.02	73.98	-30.96
							27980.00	Peak	H	-	-	-55.31	5.30	-9.54	47.45	68.20	-20.75
							34975.00	Peak	H	-	-	-57.48	9.79	-9.54	49.77	68.20	-18.43
			233	7115	61		14230.00	Peak	H	-	-	-71.36	22.66	0.00	58.30	68.20	-9.90
						*	21345.00	Average	H	-	-	-66.73	2.85	-9.54	33.57	53.98	-20.41
						*	21345.00	Peak	H	-	-	-58.51	2.85	-9.54	41.79	73.98	-32.19
							28460.00	Peak	H	-	-	-55.89	5.34	-9.54	46.91	68.20	-21.29
							35575.00	Peak	H	-	-	-57.29	9.53	-9.54	49.71	68.20	-18.49

Table 7-38. Radiated Measurements MIMO (242 Tones) – LPI

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