



**ELEMENT MATERIALS TECHNOLOGY,
Columbia MD**

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MEASUREMENT REPORT

FCC Part 15.407 802.11a/ax/be WiFi 6GHz (OFDM)

Applicant Name:

Samsung Electronics Co., Ltd.

129, Samsung-ro,

Yeongtong-gu, Suwon-si

Gyeonggi-do, 16677, Korea

Date of Testing:

11/12/25 - 12/23/25

Test Report Issue Date:

1/9/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Element Lab. Suwon-Si, Gyeonggi-do, South Korea

Test Report Serial No.:

1M2508270083-17-R1.A3L

FCC ID:

A3LSMS947B

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-S947B/DS

Additional Model(s):

SM-S947B

EUT Type:

Portable Handset

Frequency Range:

5935 – 7115MHz

Modulation Type:

OFDM

FCC Classification:

15E 6GHz Low Power Dual Client (6CD)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023, KDB 987594 D02 v03,
KDB 648474 D03 v01r04

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: 1M2508270083-17-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2508270083-17.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



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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	1/8/2026	WKR0000005883
1	Addressed comments made by TCB reviewer	1/9/2026	WKR0000005883

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Channel Bandwidth [MHz]	UNII Band	Tx Frequency [MHz]	MIMO	
			Max. Power [mW]	Max. Power [dBm]
20	5	5935 - 6415	25.35	14.04
	6	6435 - 6515	6.81	8.33
	7	6535 - 6875	21.35	13.29
	8	6895 - 7115	7.61	8.81
40	5	5965 - 6405	25.30	14.03
	6	6445 - 6525	11.25	10.51
	7	6565 - 6845	20.91	13.20
	8	6885 - 7085	11.63	10.65
80	5	5985 - 6385	25.77	14.11
	6	6465	22.30	13.48
	7	6545 - 6865	24.28	13.85
	8	6945 - 7025	24.63	13.91
160	5	6025 - 6345	25.04	13.99
	6	6505	22.30	13.48
	7	6665 - 6825	23.30	13.67
	8	6985	23.30	13.67
320	5	6105 - 6265	25.30	14.03
	6	6425	22.12	13.45
	7	6585 - 6745	21.03	13.23
	8	6905	24.38	13.87

EUT Overview - EIRP

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1.0 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

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4:2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

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

- 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).

Measurements were performed at Element Materials Technology Suwon, Ltd. located in Yongin-si, Gyeonggi-do, 16954, South Korea. ("KR")

- Element Materials Technology Suwon, Ltd. is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation(A2LA) with Certificate number 2041.04 for Specific Absorption Rate (SAR), and Electromagnetic Compatibility (EMC) & Telecommunications testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Materials Technology Suwon, Ltd. facility is accredited, designated, and recognized in accordance with the provision of Radio Wave Act and International Standard ISO/IEC 17025:2017 under the National Radio Research Agency.
 - Designation Number / CABID: KR0169
 - Test Firm Registration Number of FCC: 417945
 - Test Firm Registration Number of ISED: 26168

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Electronics Co., Ltd. Portable Handset FCC ID: A3LSMS947B**. 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.

Test Device Serial No.: 2938M, 2948M, 2809M, 2846M, 2956M, 2974M, 0706M

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/ac/ax/be, WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer, UWB

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. 802.11a /802.11ax/be (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/be (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/be (80MHz BW) Frequency / Channel Operations

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Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
15	6025	111	6505	143	6665	207	6985
47	6185			175	6825		
79	6345						

Table 2-4. 802.11ax/be (160MHz BW) Frequency / Channel Operations

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
31	6105	95	6425	127	6585	191	6905
63	6265			159	6745		

Table 2-5. 802.11be (320MHz BW) Frequency / Channel Operations

Notes:

- 6GHz NII operation is possible in 20MHz, 40MHz, 80MHz, 160MHz, and 320MHz 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:

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802.11 Mode/Band		MIMO (1+2)	
		Duty Cycle [%]	DCCF [dB]
6GHz	a	93.40	0.28
	ax (HE20)	99.58	N/A
	be (EHT20)	99.56	N/A
	ax (HE40)	99.45	N/A
	be (EHT40)	99.34	N/A
	ax (HE80)	99.45	N/A
	be (EHT80)	99.34	N/A
	be (EHT80, 20MHz Puncture)	99.60	N/A
	ax (HE160)	99.40	N/A
	be (EHT160)	99.45	N/A
	be (EHT160, 20MHz Puncture)	99.60	N/A
	be (EHT160, 40MHz Puncture)	99.63	N/A
	be (EHT320)	99.02	N/A
	be (EHT320, 40MHz Puncture)	99.65	N/A
	be (EHT320, 80MHz Puncture)	99.69	N/A
	be (EHT320, 120MHz Puncture)	99.65	N/A

Table 2-6. 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
6GHz	11a	✓	✓	✓	✓	✗	✗
	11ax	✓	✓	✓	✓	✓	✓
	11be	✓	✓	✓	✓	✓	✓

Table 2-7. Antenna / Technology Configurations

✓= 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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802.11a	MCS Index		Spatial Stream	OFDM (802.11ax/be)																	
				20MHz			40MHz			80MHz			160MHz			320MHz					
	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					
20MHz	HT	EHT																			
6	0	0	1	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3	144.1	136.1	122.5			
9	1	1	1	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	288.2	272.2	245			
12	2	2	1	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8	432.4	408.3	367.5			
18	3	3	1	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490			
24	4	4	1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	864.7	816.7	735			
36	5	5	1	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980			
48	7	6	1	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3	1297.1	1225	1102.5			
54		7	1	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5	1441.2	1361.1	1225			
		8	1	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470			
		9	1	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7	1921.6	1814.8	1633.3			
		10	1	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8	2161.8	2041.7	1837.5			
		11	1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8	2402	2268.5	2041.7			
		12	1	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	2594.1	2450	2205			
		13	1	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	2882.4	2722.2	2450			
6	8	0	2	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	288.2	272.2	245			
9	9	1	2	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490			
12	10	2	2	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	864.7	816.7	735			
18	11	3	2	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980			
24	12	4	2	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470			
36	13	5	2	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980	2305.9	2177.8	1960			
48	14	6	2	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	2594.1	2450	2205			
54	15	7	2	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	2882.4	2722.2	2450			
		8	2	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	3458.8	3266.7	2940			
		9	2	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3	3843.1	3629.6	3266.7			
		10	2	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5	4323.5	4083.3	3675			
		11	2	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7	4803.9	4537	4083.3			
		12	2	309.7	292.5	263.3	619.4	585	526.5	1297.1	1225	1102.5	2594.1	2450	2205	5188.2	4900	4410			
		13	2	344.1	325	292.5	688.2	650	585	1441.2	1361.1	1225	2882.4	2722.2	2450	5764.7	5444.4	4900			

Table 2-8. Supported Data Rates

4. The device supports either Standard Power (SP) or Low Power Indoor (LPI) 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 2-9. Power Operation

✓ = Support; ✗ = NOT Support

5. The device supports channel puncturing for 802.11be with 80MHz, 160MHz, and 320MHz.

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2.3 Antenna Description

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	-7.42	-9.23
6025 MHz	-6.41	-9.09
6125 MHz	-6.79	-8.70
6225 MHz	-6.51	-10.28
6325 MHz	-6.69	-9.23
6425 MHz	-6.42	-9.68
6525 MHz	-7.06	-10.58
6625MHz	-6.41	-10.93
6725MHz	-6.87	-11.00
6825MHz	-6.50	-10.93
6925MHz	-6.55	-9.36
7025MHz	-6.99	-9.44
7125MHz	-7.10	-8.97

Table 2-10 Antenna Peak Gain per Frequency

	Ant1 Peak Gain [dBi]	Ant2 Peak Gain [dBi]	Directional Gain [dBi]
5925 – 6425 MHz	-6.41	-8.70	-4.47
6425 – 6525 MHz	-6.42	-9.68	-4.89
6525 – 6875 MHz	-6.41	-10.58	-5.24
6875 – 7125 MHz	-6.55	-8.97	-4.67

Table 2-11. Antenna Peak Gain

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2.4 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 and KDB 987594 D02 v03. 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 supports operation under control of either a low-power indoor access point or standard power access point or very low power access point

This device operates in the 5.925-7.125 GHz band when under control of an indoor access point and very lower power access point. 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.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: NQ-WC-06 while operating under normal conditions in a simulated call or data transmission configuration. The worst-case radiated emissions data is shown in this report.

2.5 Software and Firmware

The test was conducted with firmware version S947BXXU0AYKQ 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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3.0 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.

Line conducted emissions test results are shown in Section 7.8. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

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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 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 precautions were 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 were 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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4.0 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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5.0 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 ($\pm$ 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 – MD

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	1.95
Radiated Disturbance (<1GHz)	4.10
Radiated Disturbance (>1GHz)	4.82
Radiated Disturbance (>18GHz)	4.96

Table 5-2. Measurement Uncertainty Budget – KR

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6.0 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
ETS-Lindgren	3816/2NM	Line Impedance Stabilization Network	4/21/2025	Biennial	4/21/2027	114451
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
Pasternack	NMLC-2	Line Conducted Emissions Cable (NM)	3/25/2025	Annual	3/25/2026	NMLC-2
Rohde & Schwarz	CMX500	5G Radio Communication Tester	N/A			101202
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	ENV216	Two-Line V-Network	3/21/2025	Biennial	3/21/2027	101380
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 – MD

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9030A	PXA Signal Analyzer	2025-05-23	Annual	2026-05-22	MY49432391
Anritsu	S820E	Cable and Antenna Analyzer	2025-06-13	Annual	2026-06-12	1839097
Rohde & Schwarz	NRP-Z81	POWER SENSOR	2025-05-23	Annual	2026-05-22	101499
Keysight Technologies	N9030B	PXA Signal Analyzer	2025-07-07	Annual	2026-07-06	MY57143278
Mini-Circuits	BW-N10W5+	Attenuator	2025-07-03	Annual	2026-07-02	TEMPNO.01-151
Mini-Circuits	BW-N10W5+	Attenuator	2025-07-17	Annual	2026-07-16	TEMPNO.01-150

Table 6-2. Test Equipment Calibration Table – KR

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.

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

Table 6-3. WL25-1 Conducted Cable Set Components

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

Table 6-4. WL25-2 Conducted Cable Set Components

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

Table 6-5. WL40-1 Conducted Cable Set Components

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

Table 6-6. 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 6-7. 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 6-8. AP1-002 EMC Cable and Switch System Components

Component	Serial Number
Flex Cable	P2A-0001
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Chamber Passthrough	CP4/X12
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Micro-Coax Utilflex 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 6-9. AP2-001 EMC Cable and Switch System Components

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Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utilflex 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 Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-002
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-004
Micro-Coax Utilflex 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 Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335

Table 6-10. AP2-002 EMC Cable and Switch System Components

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 6-11. MD 1M 18-40 EMC Cable and Switch System Components

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMS947B
 FCC Classification: 15E 6GHz Low Power Dual Client (6CD)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference	Test Location
2.1046, 15.407(a)(12)	Maximum Conducted Output Power	N/A	CONDUCTED	PASS	Section 7.3	KR
15.407(a)(8), 15.407(a)(7)	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	KR
2.1049, 15.407(a)(11)	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	MD
15.407(a)(8), 15.407(a)(7)	Maximum Power Spectral Density	< -1dBm/MHz e.i.r.p. <17dBm/MHz when operating with a standard power access point		PASS	Section 7.4	MD
15.407(b)(7)	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7)		PASS	Section 7.5	MD
15.407(d)(6)	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	See CBP Supplemental Report	N/A
15.407(a)(7)	Power Reduction Verification	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	Section 7.6	MD
15.407(b)(6)	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	RADIATED	PASS	Section 7.7	MD
15.205, 15.209	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 7.7	MD
15.407(b)(9)	AC Conducted Emissions (150kHz – 30MHz)	< FCC 15.207 limits	LINE CONDUCTED	PASS	Section 7.8	MD

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) 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 does 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. Compliance to this clause is addressed via submission of an attestation following Appendix B of KDB 987594 D01 v03.
- 5) 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.
- 6) 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.

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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. $VBW \geq 3 \times RBW$
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

1. All cases were investigated; a subset of the plots taken were included to represent relevant settings and measurements.
2. In case of 320MHz operation, an occupied bandwidth measurement is used to demonstrate compliance.
3. SP 80/160/320MHz BW share the same target as LPI 80/160/320MHz BW, and only the emissions from worst-case have been reported.

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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	a	24.34	23.12	17.86	17.09
	6175	45	a	24.14	22.78	17.66	17.12
	6415	93	a	24.51	23.04	17.67	17.16
	5935	2	be (20MHz)	23.97	23.94	19.47	19.37
	6175	45	be (20MHz)	24.18	24.46	19.39	19.37
	6415	93	be (20MHz)	23.55	24.62	19.44	19.36
	5965	3	be (40MHz)	45.65	45.19	38.66	38.58
	6165	43	be (40MHz)	45.54	45.06	38.58	38.42
	6405	91	be (40MHz)	44.93	45.10	38.48	38.53
	5985	7	be (80MHz)	93.84	90.68	78.43	78.31
	6145	39	be (80MHz)	90.67	90.79	78.42	78.41
	6385	87	be (80MHz)	91.15	90.19	78.37	78.43
	6025	15	be (160MHz)	178.86	178.97	158.14	158.00
	6185	47	be (160MHz)	178.44	177.67	158.19	158.07
	6345	79	be (160MHz)	178.43	177.05	158.35	158.32
	6105	31	be (320MHz)	-	-	316.98	317.31
Band 6	6265	63	be (320MHz)	-	-	316.73	317.07
	6435	97	a	24.78	22.76	17.76	17.17
	6475	105	a	24.46	23.16	17.70	17.17
	6515	113	a	24.35	23.46	17.74	17.20
	6435	97	be (20MHz)	23.19	23.61	19.36	19.45
	6475	105	be (20MHz)	23.82	24.11	19.44	19.43
	6515	113	be (20MHz)	23.24	24.55	19.42	19.41
	6445	99	be (40MHz)	45.92	44.58	38.39	38.43
	6485	107	be (40MHz)	46.00	44.06	38.67	38.45
	6525	115	be (40MHz)	45.42	44.83	38.53	38.55
	6465	103	be (80MHz)	90.79	89.80	78.39	78.36
Band 5/6/7	6505	111	be (160MHz)	179.67	178.02	158.14	158.16
	6425	95	be (320MHz)	-	-	316.06	315.40
Band 7	6535	117	a	24.63	22.66	17.73	17.15
	6695	149	a	24.52	23.06	17.82	17.19
	6875	185	a	24.32	22.95	17.79	17.17
	6535	117	be (20MHz)	23.64	24.26	19.47	19.42
	6695	149	be (20MHz)	24.40	24.31	19.51	19.44
	6875	185	be (20MHz)	24.00	23.16	19.48	19.38
	6565	123	be (40MHz)	44.72	44.54	38.58	38.45
	6725	155	be (40MHz)	45.64	45.30	38.59	38.49
	6845	179	be (40MHz)	45.26	44.79	38.53	38.48
	6545	119	be (80MHz)	91.20	89.51	78.45	78.60
	6705	151	be (80MHz)	90.42	91.32	78.41	78.30
	6865	183	be (80MHz)	90.48	90.13	78.49	78.38
	6665	143	be (160MHz)	179.76	177.20	158.26	158.18
	6825	175	be (160MHz)	178.85	178.98	158.15	158.14
Band 6/7	6585	127	be (320MHz)	-	-	316.02	315.97
Band 7/8	6745	159	be (320MHz)	-	-	315.90	315.92
Band 8	6895	189	a	24.54	23.20	17.87	17.22
	6995	209	a	24.73	23.19	17.80	17.14
	7115	233	a	24.73	23.38	17.82	17.18
	6895	189	be (20MHz)	23.80	23.88	19.38	19.47
	6995	209	be (20MHz)	24.86	24.37	19.46	19.40
	7115	233	be (20MHz)	23.86	23.88	19.41	19.37
	6885	187	be (40MHz)	45.01	45.56	38.61	38.51
	7005	211	be (40MHz)	46.28	45.21	38.60	38.48
	7085	227	be (40MHz)	45.20	45.25	38.52	38.53
	6945	199	be (80MHz)	89.29	89.26	78.43	78.47
	7025	215	be (80MHz)	92.49	90.12	78.58	78.25
Band 7/8	6985	207	be (160MHz)	178.12	176.00	158.32	157.98
	6905	191	be (320MHz)	-	-	315.79	316.29

Table 7-2. 26dB Bandwidth Results - LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 23 of 121

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	6145	39	be (80MHz)	20MHz	90.74	90.32	78.79	79.00
	6185	47	be (160MHz)	20MHz	176.16	174.89	157.91	157.98
	6185	47	be (160MHz)	40MHz	178.11	177.99	158.75	158.87
	6105	31	be (320MHz)	40MHz	-	-	316.38	317.07
	6105	31	be (320MHz)	80MHz	-	-	317.35	317.14
	6105	31	be (320MHz)	120MHz	299.35	-	238.76	239.39
Band 6	6465	103	be (80MHz)	20MHz	91.19	90.27	79.06	78.79
	6505	111	be (160MHz)	20MHz	177.42	177.34	158.41	158.36
	6505	111	be (160MHz)	40MHz	179.10	176.74	158.52	158.53
Band 5/6/7	6425	95	be (320MHz)	40MHz	316.49	316.08	316.49	316.08
	6425	95	be (320MHz)	80MHz	317.08	316.78	317.08	316.78
	6425	95	be (320MHz)	120MHz	241.86	242.42	241.86	242.42
Band 7	6705	151	be (80MHz)	20MHz	90.24	90.71	79.12	78.67
	6665	143	be (160MHz)	20MHz	179.64	176.19	158.41	158.35
	6665	143	be (160MHz)	40MHz	178.88	175.80	158.56	158.52
Band 7/8	6745	159	be (320MHz)	40MHz	316.31	316.64	316.31	316.64
	6745	159	be (320MHz)	80MHz	316.45	317.74	316.45	317.74
	6745	159	be (320MHz)	120MHz	239.20	239.16	239.20	239.16
Band 8	7025	215	be (80MHz)	20MHz	91.82	90.06	79.12	78.77
	6985	207	be (160MHz)	20MHz	176.91	175.41	157.92	158.05
	6985	207	be (160MHz)	40MHz	178.69	173.46	158.60	158.52
Band 7/8	6905	191	be (320MHz)	40MHz	316.23	316.58	316.23	316.58
	6905	191	be (320MHz)	80MHz	316.85	316.86	316.85	316.86
	6905	191	be (320MHz)	120MHz	237.65	238.75	237.65	238.75

Table 7-3. 26dB Bandwidth Results – Punctured Cases – LPI/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	a	24.47	22.92	17.79	17.13
	6175	45	a	24.57	22.94	17.76	17.15
	6415	93	a	24.55	23.42	17.76	17.15
	5935	2	be (20MHz)	23.90	23.55	19.43	19.33
	6175	45	be (20MHz)	23.42	23.72	19.33	19.36
	6415	93	be (20MHz)	23.81	24.31	19.49	19.39
	5695	3	be (40MHz)	46.05	44.60	38.57	38.60
	6165	43	be (40MHz)	45.13	44.87	38.52	38.48
	6405	91	be (40MHz)	46.33	45.26	38.65	38.55
Band 7	6535	117	a	24.38	22.99	17.83	17.16
	6695	149	a	24.67	23.10	17.84	17.18
	6855	181	a	24.62	23.22	17.80	17.19
	6535	117	be (20MHz)	23.61	23.92	19.41	19.37
	6695	149	be (20MHz)	23.77	24.17	19.44	19.34
	6855	181	be (20MHz)	24.34	23.33	17.92	17.16
	6565	123	be (40MHz)	46.03	45.00	38.52	38.51
	6725	155	be (40MHz)	45.18	44.56	38.64	38.48
	6885	179	be (40MHz)	44.85	45.12	38.54	38.54

Table 7-4. 26dB Bandwidth Results – SP

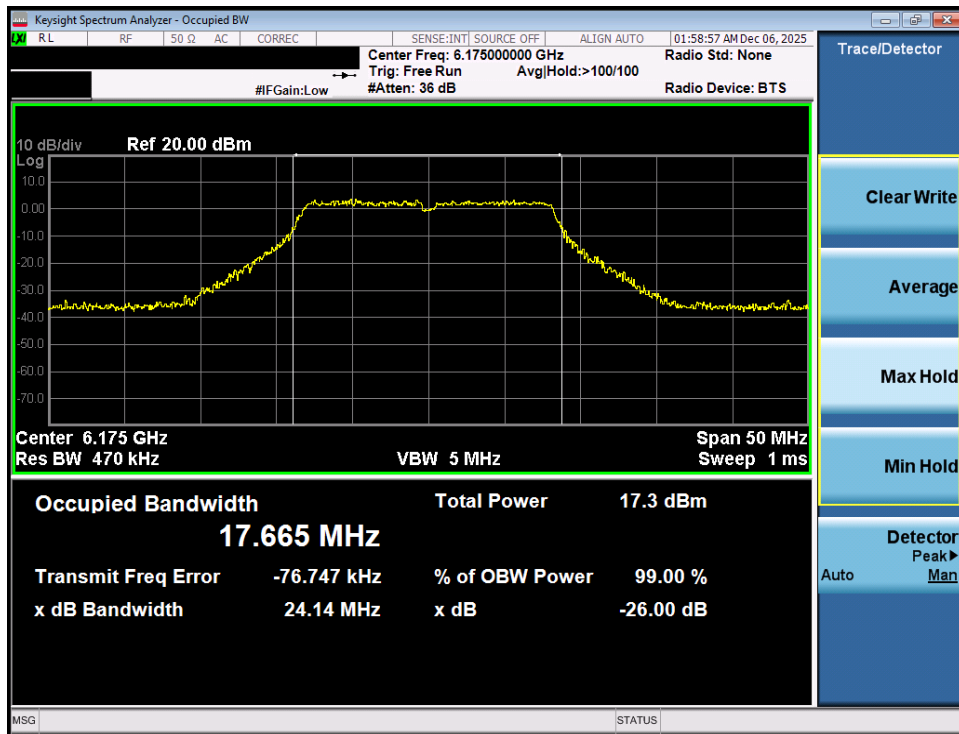
FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 24 of 121

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	6145	39	be (80MHz)	20MHz	90.24	90.27	78.90	78.85
Band 7	6705	151	be (80MHz)	20MHz	90.79	89.61	79.34	78.76

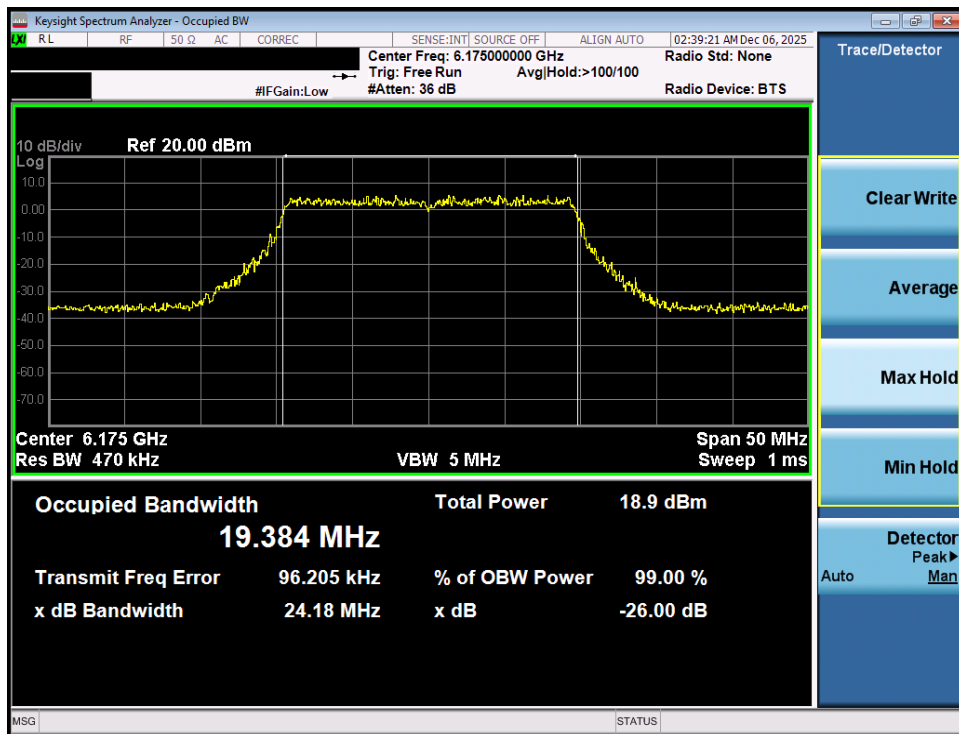
Table 7-5. 26dB Bandwidth Results – Punctured Cases - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 25 of 121

7.2.1 MIMO Antenna-1 26 dB Bandwidth Measurements - (UNII Band 5)

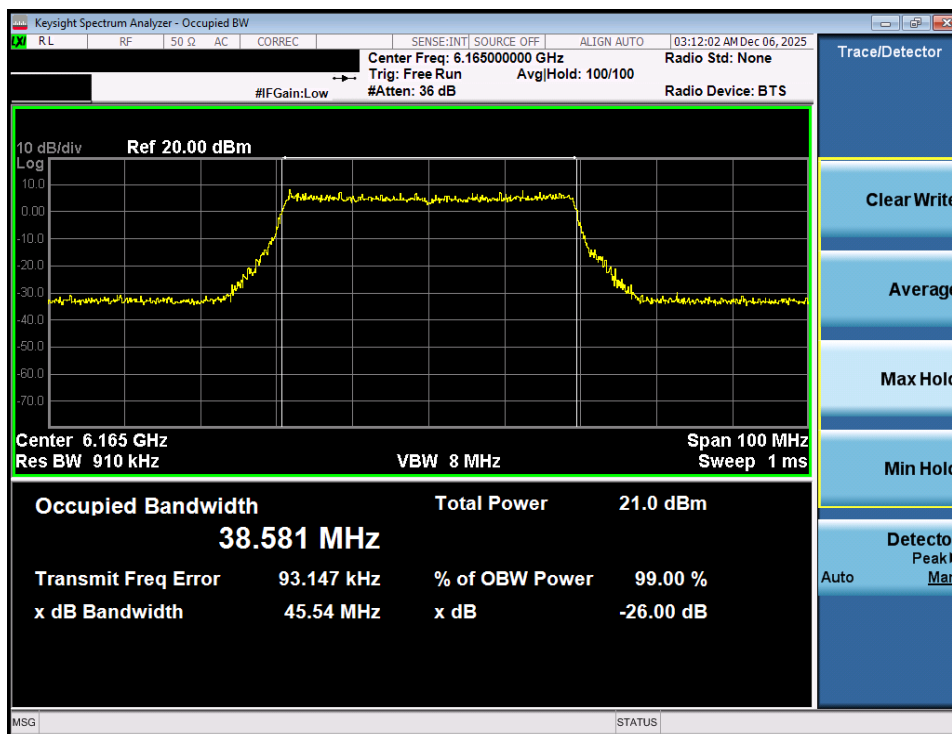


Plot 7-1. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45) - LPI

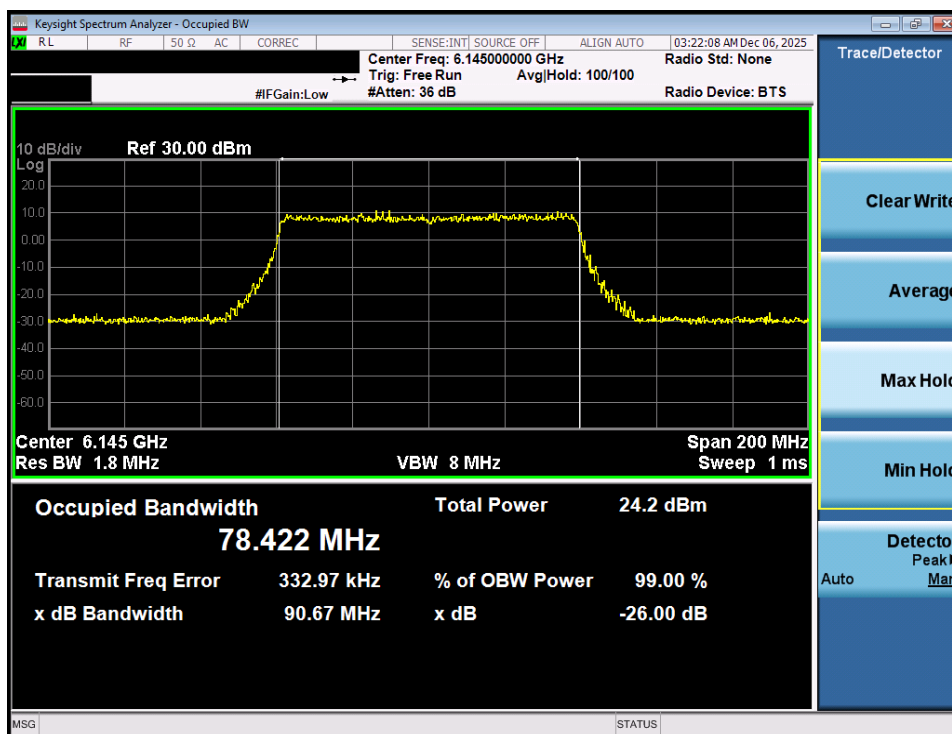


Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 26 of 121

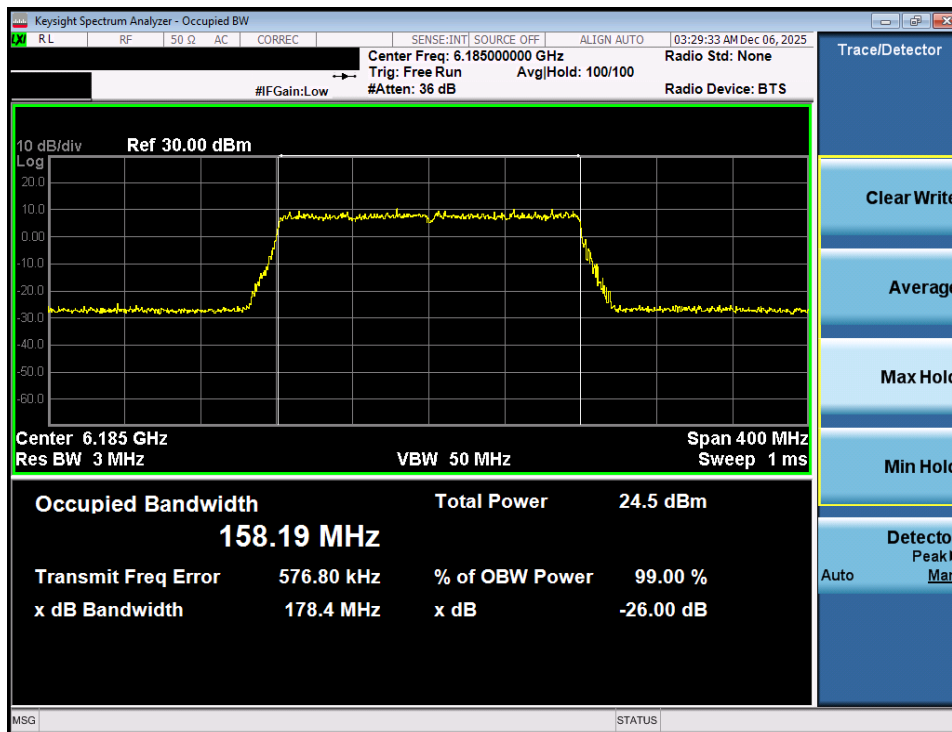


Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - LPI

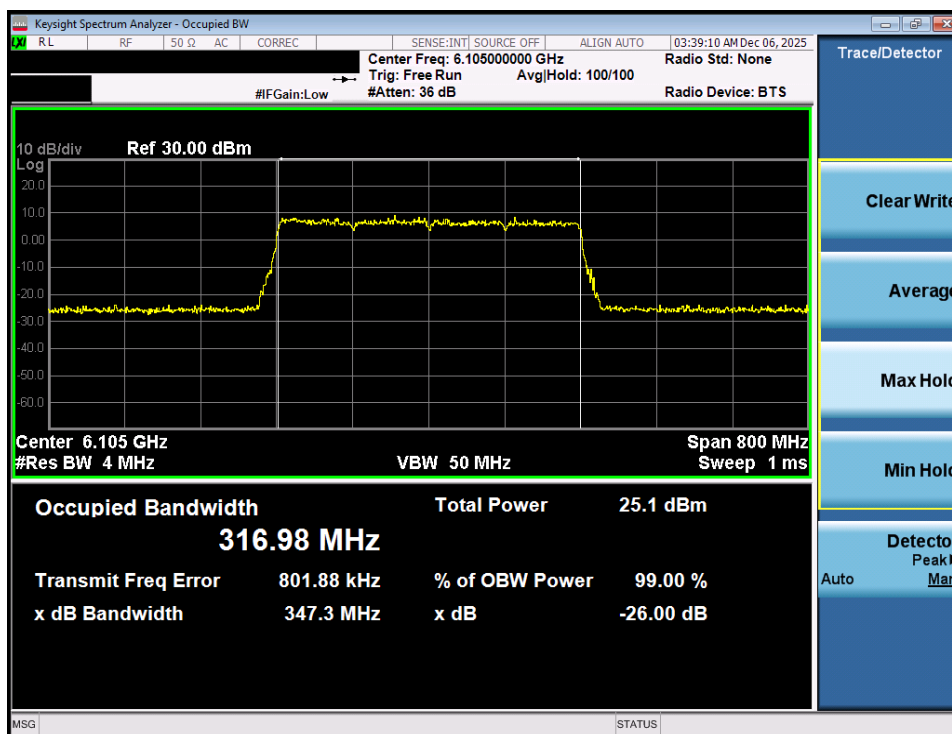


Plot 7-4. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 27 of 121

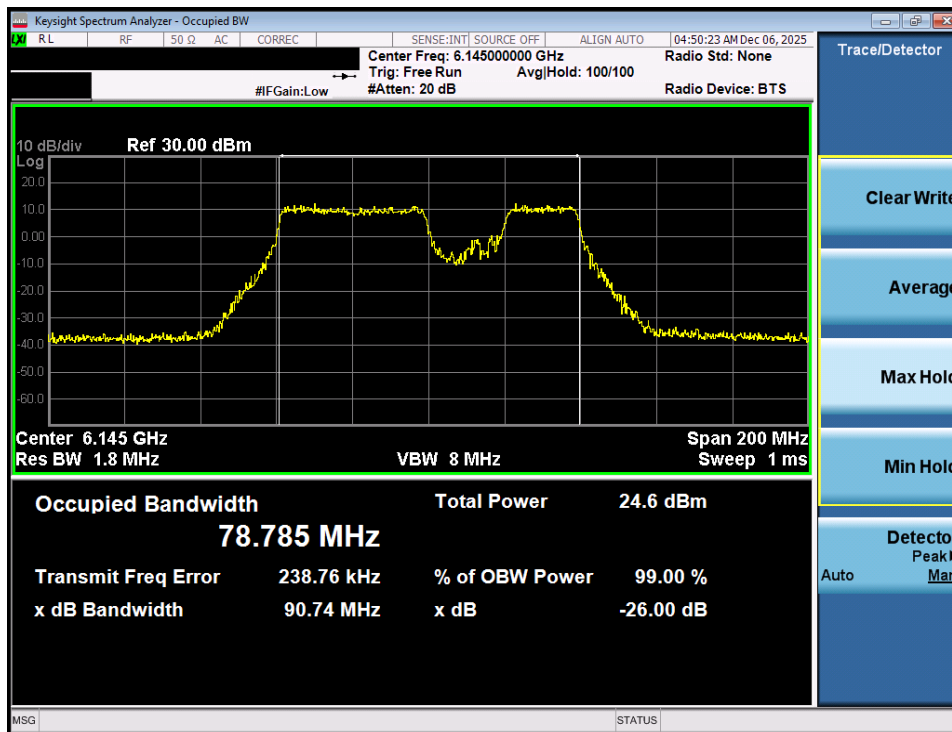


Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI/SP

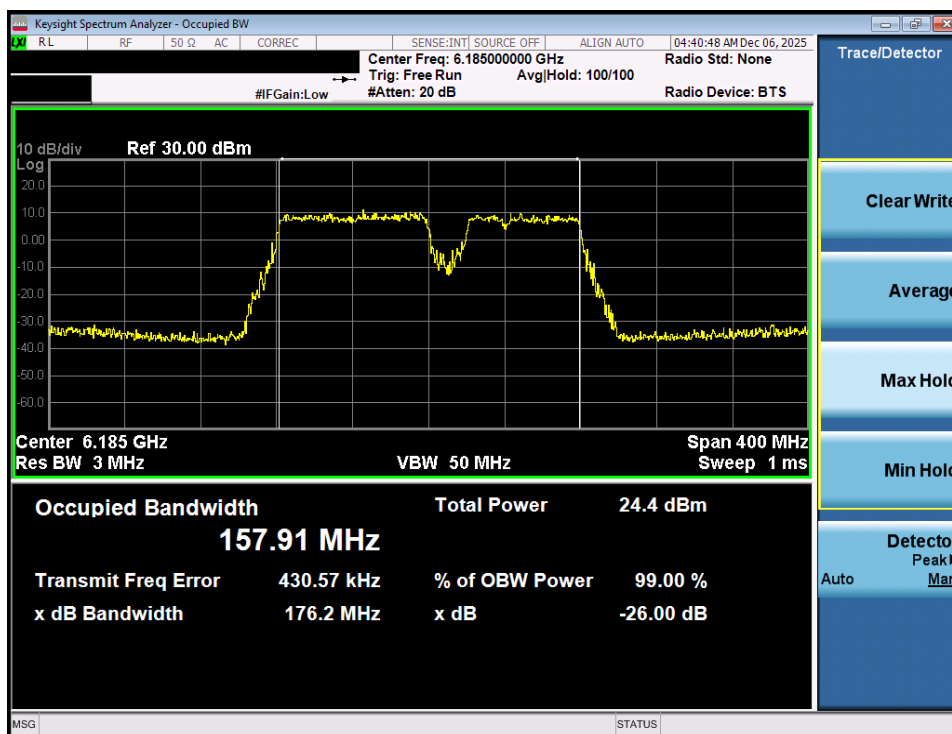


Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 28 of 121

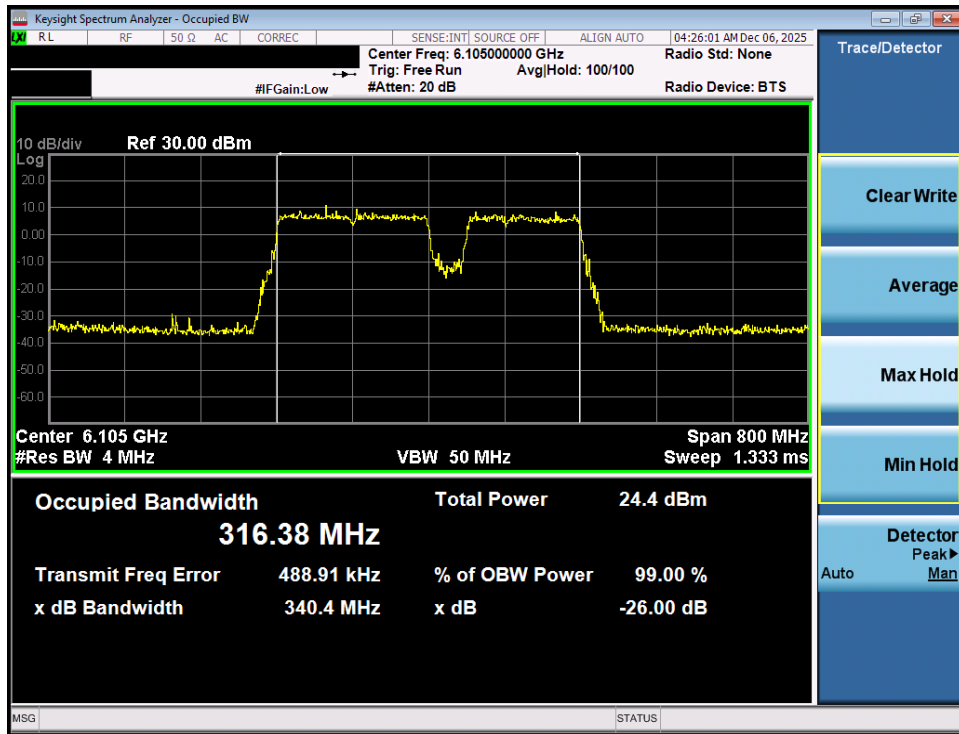


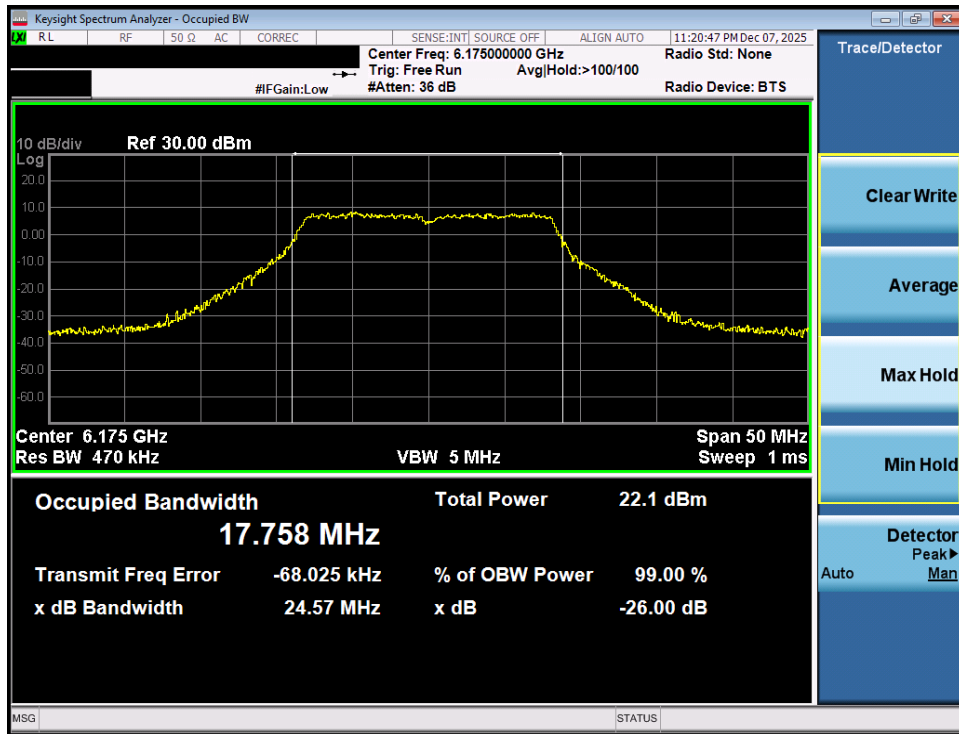
Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11be (UNII Band 5) – Ch. 39) – 20MHz Punctured - LPI/SP



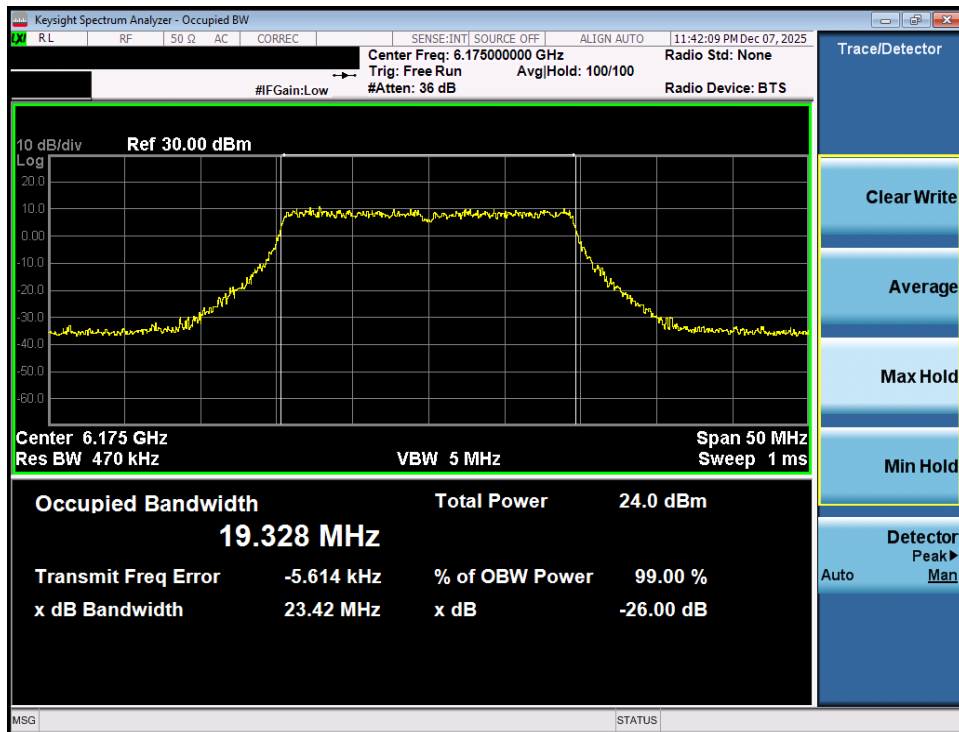
Plot 7-8. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11be (UNII Band 5) – Ch. 47) – 20MHz Punctured - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 29 of 121



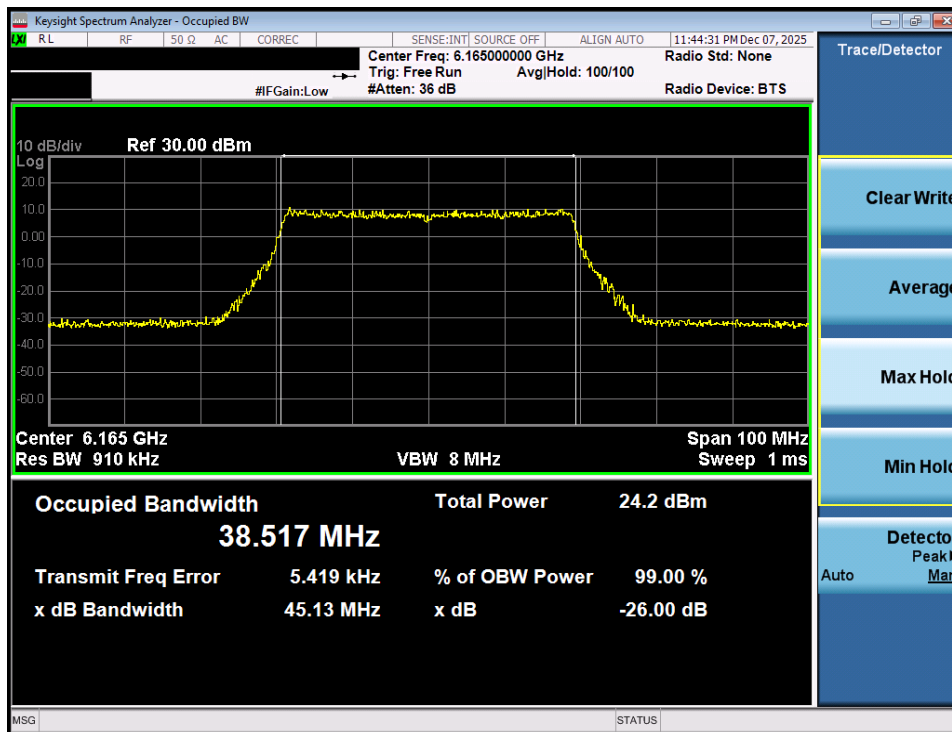


Plot 7-10. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP



Plot 7-11. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

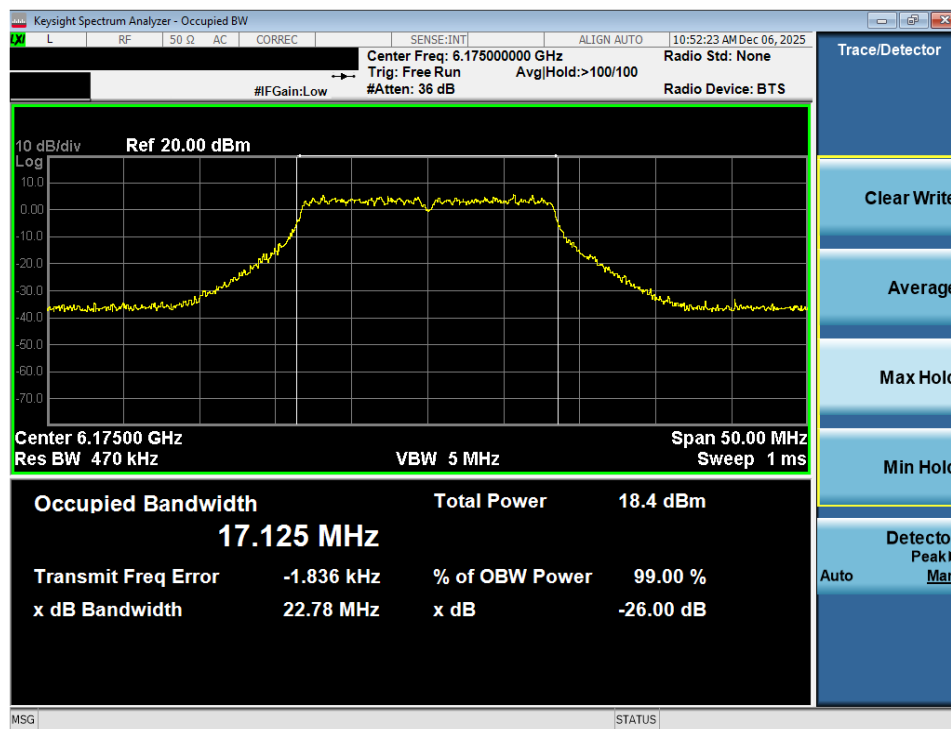
FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 31 of 121



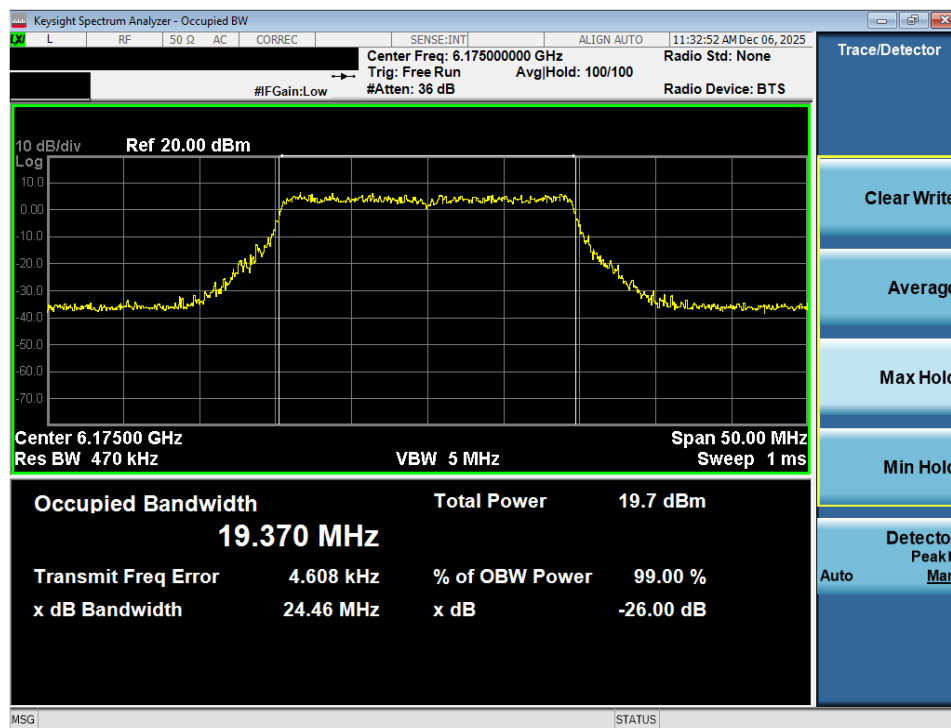
Plot 7-12. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 32 of 121

7.2.2 MIMO Antenna-2 26 dB Bandwidth Measurements - (UNII Band 5)

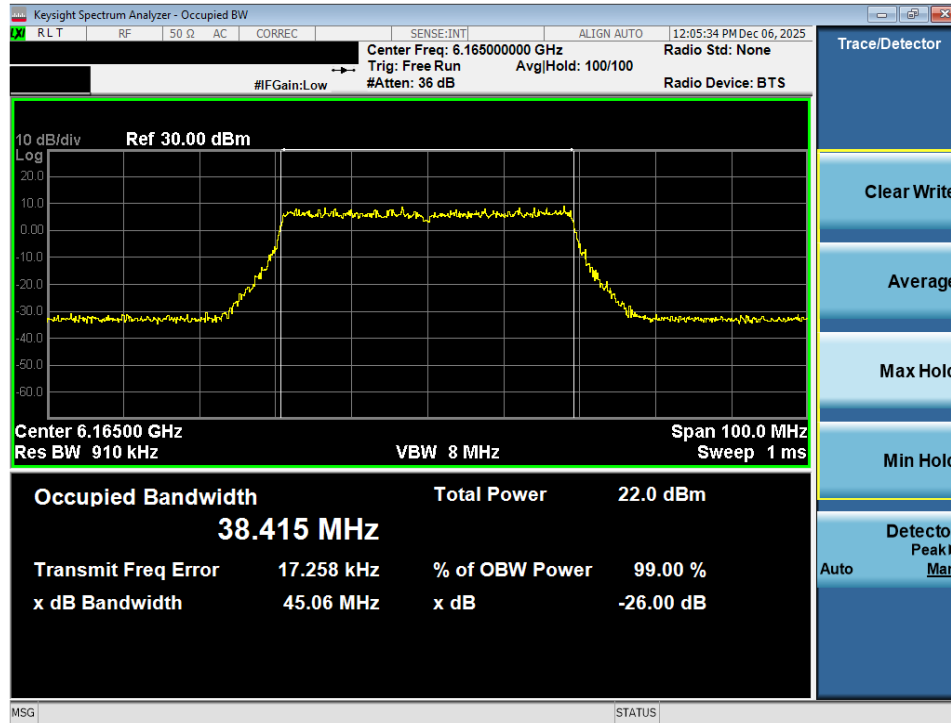


Plot 7-13. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - LPI

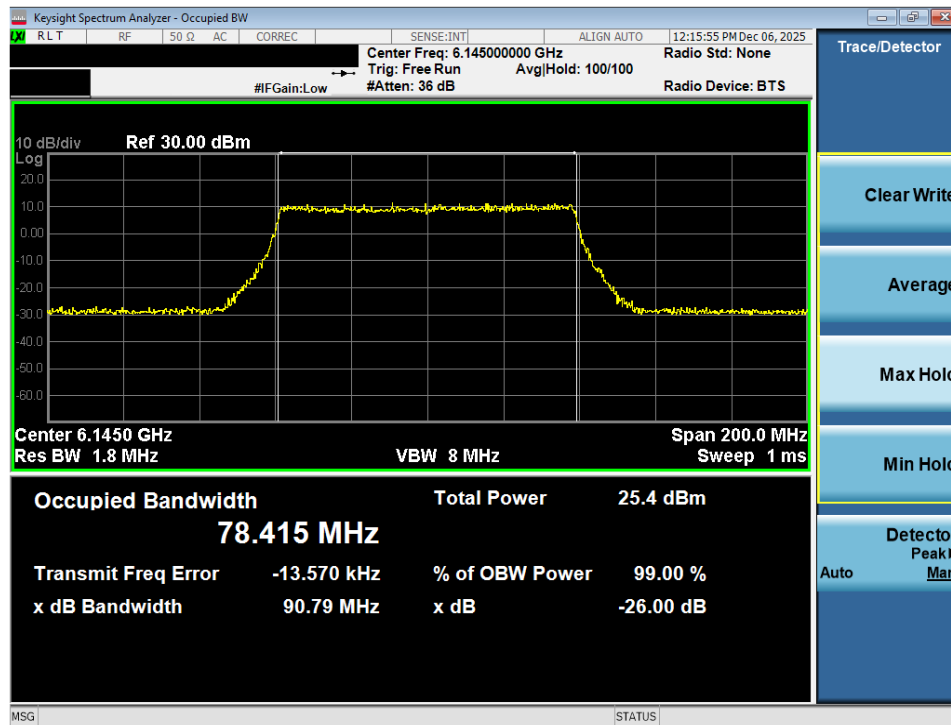


Plot 7-14. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 33 of 121

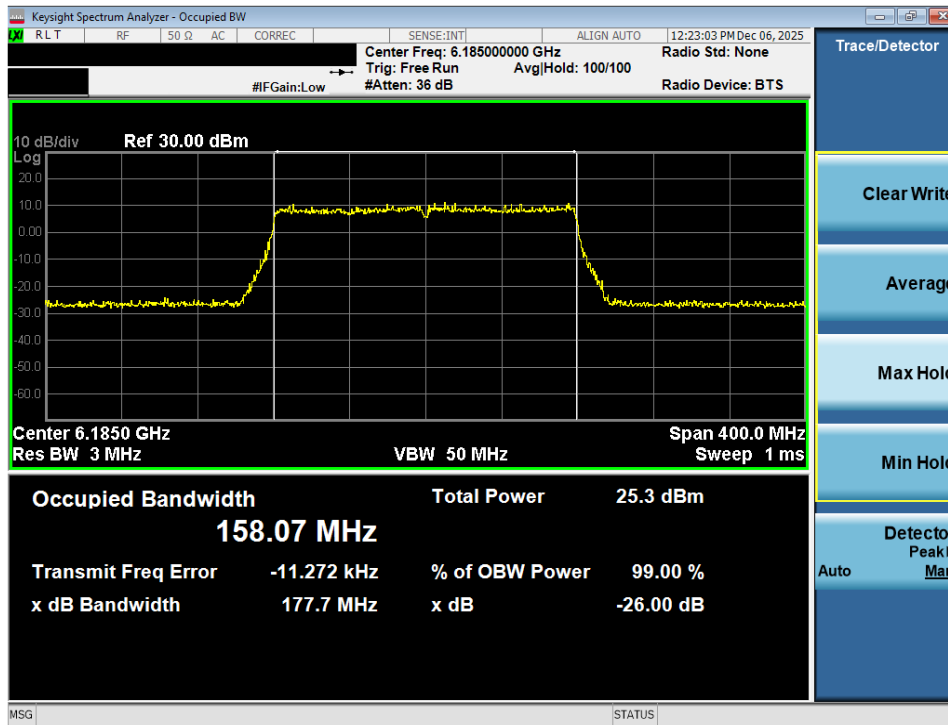


Plot 7-15. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - LPI

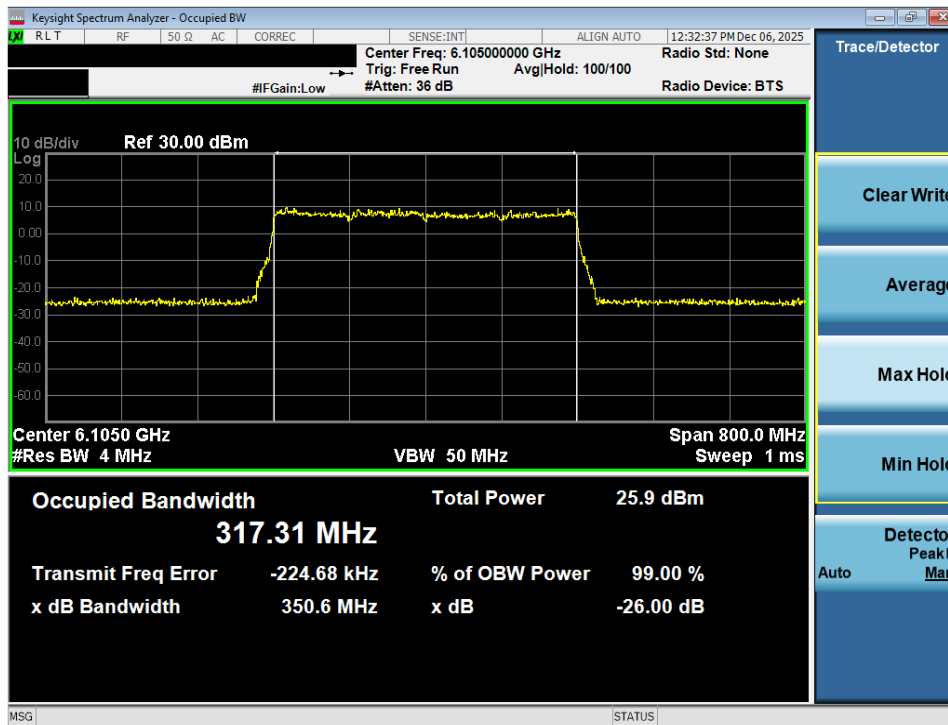


Plot 7-16. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 34 of 121

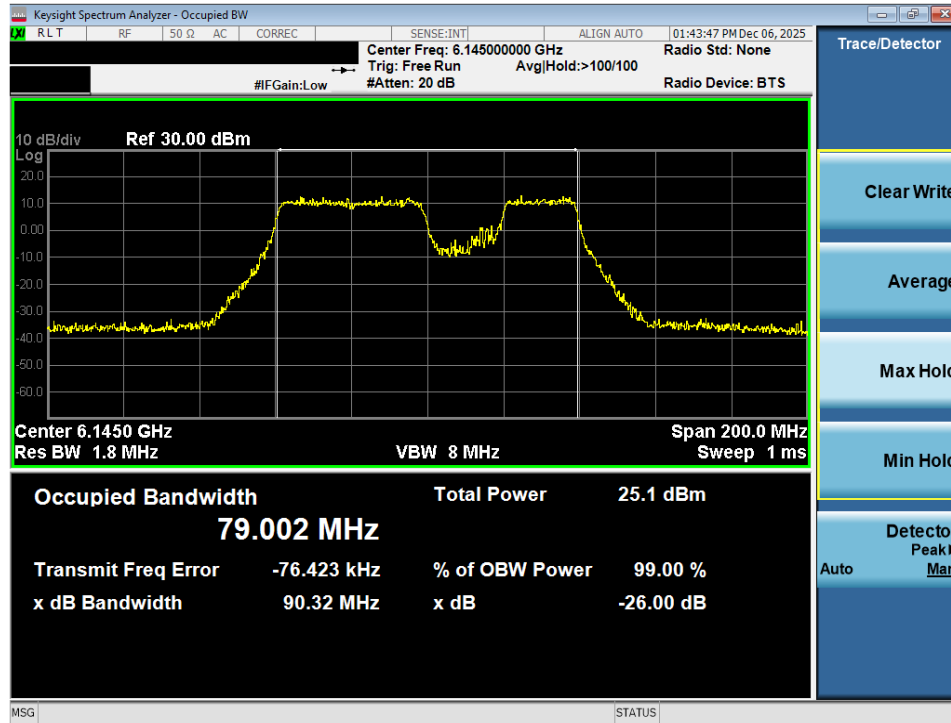


Plot 7-17. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI/SP

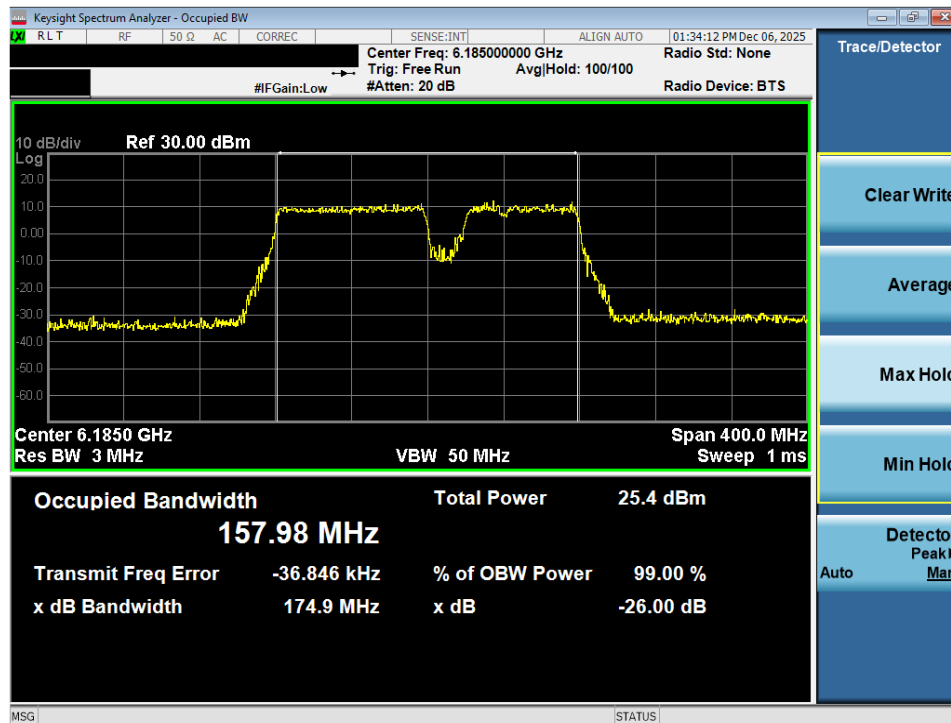


Plot 7-18. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 35 of 121

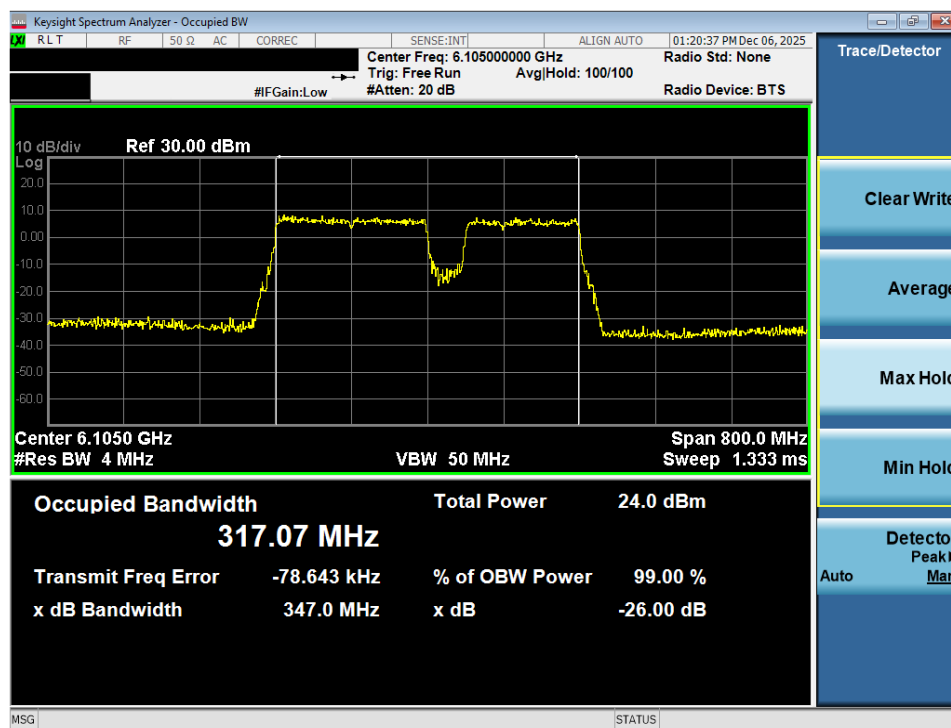


Plot 7-19. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11be (UNII Band 5) – Ch. 39) – 20MHz Punctured - LPI/SP



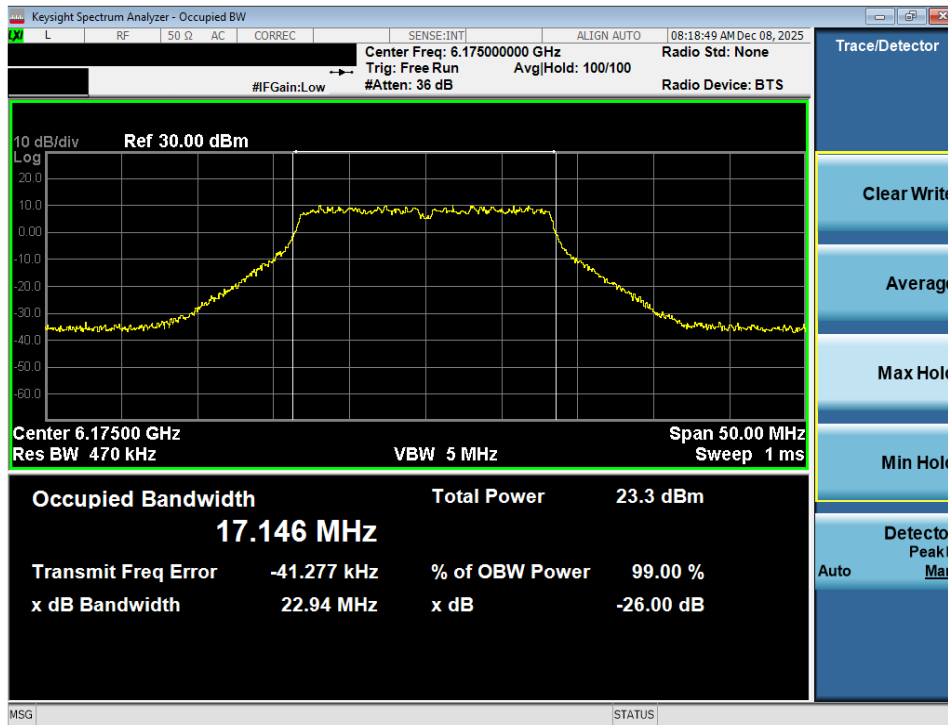
Plot 7-20. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11be (UNII Band 5) – Ch. 47) – 20MHz Punctured - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 36 of 121

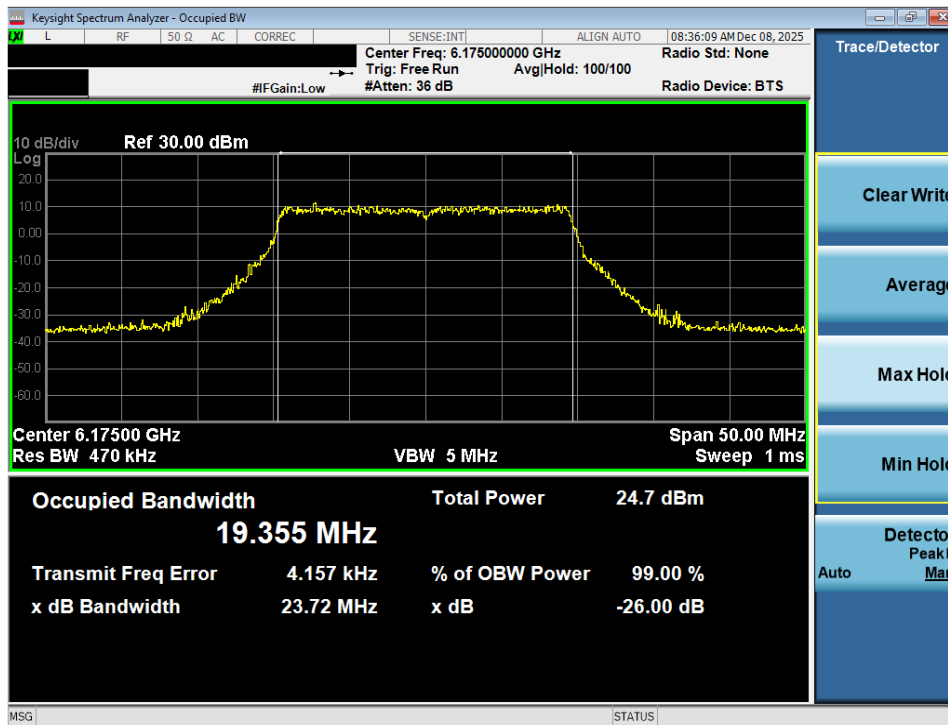


Plot 7-21. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11be (UNII Band 5) – Ch. 31) – 40MHz Punctured – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 37 of 121

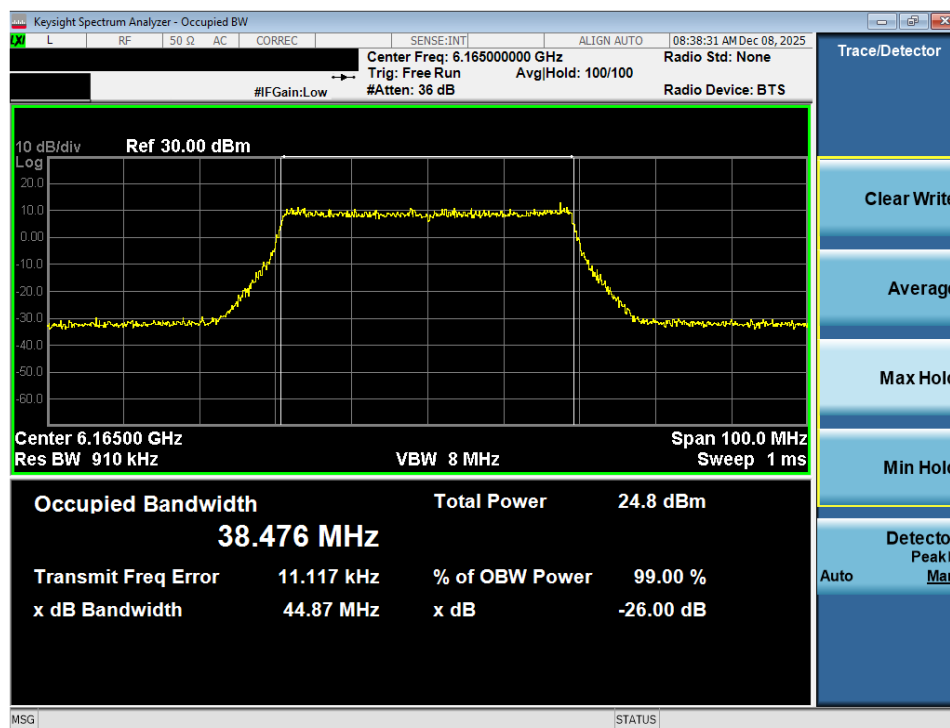


Plot 7-22. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP



Plot 7-23. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 38 of 121



Plot 7-24. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 39 of 121

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.

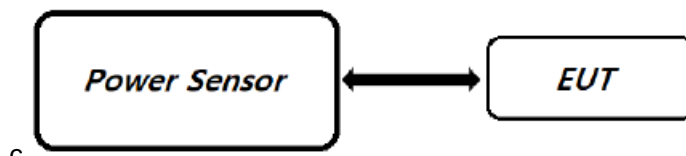


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. Compliance for this device while operating under the control of either an indoor low power access point or a standard power access point is demonstrated by applying the tighter low power indoor access point limit of 24dBm e.i.r.p. where LPI and SP power targets are identical.
2. Power targets for punctured test cases match the next smallest bandwidth. E.g. 80MHz punctured target = 40MHz full bandwidth target, 160MHz punctured target = 80MHz full bandwidth target, etc.

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 40 of 121

MIMO Maximum Conducted Output Power Measurements

6GHz WIFI (20MHz 802.11a MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5935	2	9.50	10.90	13.27	-4.47	8.80	24.00	-15.20
	5955	1	9.85	10.70	13.31	-4.47	8.84	24.00	-15.16
	6175	45	10.16	10.07	13.13	-4.47	8.66	24.00	-15.34
	6415	93	9.55	10.59	13.11	-4.47	8.64	24.00	-15.36
UNII-6	6435	97	9.45	10.59	13.07	-4.89	8.18	24.00	-15.82
	6475	105	9.30	10.90	13.18	-4.89	8.29	24.00	-15.71
	6515	113	9.64	10.52	13.11	-4.89	8.22	24.00	-15.78
UNII-7	6535	117	9.55	10.52	13.07	-5.24	7.83	24.00	-16.17
	6675	145	9.42	10.50	13.00	-5.24	7.76	24.00	-16.24
	6695	149	9.35	10.61	13.04	-5.24	7.80	24.00	-16.20
	6875	185	9.40	10.56	13.03	-5.24	7.79	24.00	-16.21
UNII-8	6895	189	9.68	10.45	13.09	-4.67	8.42	24.00	-15.58
	6995	209	9.10	10.92	13.11	-4.67	8.44	24.00	-15.56
	7115	233	9.80	10.34	13.09	-4.67	8.42	24.00	-15.58

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

6GHz WIFI (20MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5935	2	7.71	8.48	11.12	-4.47	6.65	24.00	-17.35
	5955	1	10.05	10.39	13.23	-4.47	8.76	24.00	-15.24
	6175	45	10.41	10.48	13.46	-4.47	8.99	24.00	-15.01
	6415	93	9.09	9.03	12.07	-4.47	7.60	24.00	-16.40
UNII-6	6435	97	10.15	10.26	13.22	-4.89	8.33	24.00	-15.67
	6475	105	10.08	10.30	13.20	-4.89	8.31	24.00	-15.69
	6515	113	9.73	10.32	13.05	-4.89	8.16	24.00	-15.84
UNII-7	6535	117	9.71	10.52	13.14	-5.24	7.90	24.00	-16.10
	6675	145	10.24	10.33	13.30	-5.24	8.06	24.00	-15.94
	6695	149	10.27	10.52	13.41	-5.24	8.17	24.00	-15.83
	6875	185	9.92	10.64	13.31	-5.24	8.07	24.00	-15.93
UNII-8	6895	189	10.06	10.25	13.17	-4.67	8.50	24.00	-15.50
	6995	209	9.92	10.93	13.46	-4.67	8.79	24.00	-15.21
	7115	233	10.88	9.73	13.35	-4.67	8.68	24.00	-15.32

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

6GHz WIFI (20MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5935	2	7.78	8.41	11.12	-4.47	6.65	24.00	-17.35
	5955	1	10.15	10.52	13.35	-4.47	8.88	24.00	-15.12
	6175	45	10.42	10.53	13.49	-4.47	9.02	24.00	-14.98
	6415	93	9.14	9.12	12.14	-4.47	7.67	24.00	-16.33
UNII-6	6435	97	10.03	10.29	13.17	-4.89	8.28	24.00	-15.72
	6475	105	10.02	10.37	13.21	-4.89	8.32	24.00	-15.68
	6515	113	9.78	10.27	13.04	-4.89	8.15	24.00	-15.85
UNII-7	6535	117	9.59	10.42	13.04	-5.24	7.80	24.00	-16.20
	6675	145	10.13	10.59	13.38	-5.24	8.14	24.00	-15.86
	6695	149	10.26	10.53	13.41	-5.24	8.17	24.00	-15.83
	6875	185	9.97	10.71	13.37	-5.24	8.13	24.00	-15.87
UNII-8	6895	189	10.03	10.28	13.17	-4.67	8.50	24.00	-15.50
	6995	209	10.01	10.89	13.48	-4.67	8.81	24.00	-15.19
	7115	233	10.30	9.72	13.03	-4.67	8.36	24.00	-15.64

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

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 41 of 121

6GHz WIFI (40MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5965	3	12.21	12.53	15.38	-4.47	10.91	24.00	-13.09
	6165	43	12.32	12.70	15.52	-4.47	11.05	24.00	-12.95
	6285	67	12.23	12.17	15.21	-4.47	10.74	24.00	-13.26
	6405	91	12.12	12.21	15.18	-4.47	10.71	24.00	-13.29
UNII-6	6445	99	12.10	12.43	15.28	-4.89	10.39	24.00	-13.61
	6485	107	12.01	12.25	15.14	-4.89	10.25	24.00	-13.75
	6525	115	12.03	12.63	15.35	-4.89	10.46	24.00	-13.54
UNII-7	6565	123	12.11	12.53	15.34	-5.24	10.10	24.00	-13.90
	6685	147	12.33	12.56	15.46	-5.24	10.22	24.00	-13.78
	6725	155	12.18	12.57	15.39	-5.24	10.15	24.00	-13.85
	6845	179	11.90	12.28	15.10	-5.24	9.86	24.00	-14.14
UNII-8	6885	187	12.05	12.12	15.10	-4.67	10.43	24.00	-13.57
	7005	211	11.53	12.72	15.18	-4.67	10.51	24.00	-13.49
	7085	227	12.27	12.32	15.31	-4.67	10.64	24.00	-13.36

Table 7-9. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power– LPI

6GHz WIFI (40MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5965	3	12.24	12.49	15.38	-4.47	10.91	24.00	-13.09
	6165	43	12.43	12.77	15.61	-4.47	11.14	24.00	-12.86
	6285	67	12.22	12.23	15.24	-4.47	10.77	24.00	-13.23
	6405	91	12.21	12.29	15.26	-4.47	10.79	24.00	-13.21
UNII-6	6445	99	12.10	12.54	15.34	-4.89	10.45	24.00	-13.55
	6485	107	12.02	12.26	15.15	-4.89	10.26	24.00	-13.74
	6525	115	12.04	12.72	15.40	-4.89	10.51	24.00	-13.49
UNII-7	6565	123	12.05	12.53	15.31	-5.24	10.07	24.00	-13.93
	6685	147	12.42	12.67	15.56	-5.24	10.32	24.00	-13.68
	6725	155	12.23	12.61	15.43	-5.24	10.19	24.00	-13.81
	6845	179	12.11	12.31	15.22	-5.24	9.98	24.00	-14.02
UNII-8	6885	187	12.07	12.18	15.14	-4.67	10.47	24.00	-13.53
	7005	211	11.59	12.75	15.22	-4.67	10.55	24.00	-13.45
	7085	227	12.27	12.34	15.32	-4.67	10.65	24.00	-13.35

Table 7-10. MIMO 40MHz BW 802.11be (UNII) Maximum Conducted Output Power– LPI

6GHz WIFI (20MHz 802.11a MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5935	2	11.68	12.64	15.20	-4.47	10.73	30.00	-19.27
	5955	1	15.01	15.59	18.32	-4.47	13.85	30.00	-16.15
	6175	45	15.27	15.72	18.51	-4.47	14.04	30.00	-15.96
	6415	93	10.77	11.43	14.12	-4.47	9.65	30.00	-20.35
UNII-7	6535	117	14.36	15.67	18.07	-5.24	12.83	30.00	-17.17
	6675	145	15.12	15.68	18.42	-5.24	13.18	30.00	-16.82
	6695	149	15.03	15.58	18.32	-5.24	13.08	30.00	-16.92

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

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 42 of 121

6GHz WIFI (20MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5935	2	7.71	8.48	11.12	-4.47	6.65	30.00	-23.35
	5955	1	14.69	15.33	18.03	-4.47	13.56	30.00	-16.44
	6175	45	15.01	15.68	18.37	-4.47	13.90	30.00	-16.10
	6415	93	9.09	9.03	12.07	-4.47	7.60	30.00	-22.40
UNII-7	6535	117	14.54	15.81	18.23	-5.24	12.99	30.00	-17.01
	6675	145	15.08	15.89	18.51	-5.24	13.27	30.00	-16.73
	6695	149	14.63	15.58	18.14	-5.24	12.90	30.00	-17.10

Table 7-12. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power– SP

6GHz WIFI (20MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5935	2	7.78	8.41	11.12	-4.47	6.65	30.00	-23.35
	5955	1	14.68	15.29	18.01	-4.47	13.54	30.00	-16.46
	6175	45	14.98	15.66	18.34	-4.47	13.87	30.00	-16.13
	6415	93	9.14	9.12	12.14	-4.47	7.67	30.00	-22.33
UNII-7	6535	117	14.49	15.88	18.25	-5.24	13.01	30.00	-16.99
	6675	145	15.14	15.87	18.53	-5.24	13.29	30.00	-16.71
	6695	149	14.62	15.56	18.13	-5.24	12.89	30.00	-17.11

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

6GHz WIFI (40MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5965	3	14.73	15.23	18.00	-4.47	13.53	30.00	-16.47
	6165	43	15.27	15.66	18.48	-4.47	14.01	30.00	-15.99
	6285	67	14.79	15.27	18.05	-4.47	13.58	30.00	-16.42
	6405	91	14.86	15.16	18.02	-4.47	13.55	30.00	-16.45
UNII-7	6565	123	14.88	15.48	18.20	-5.24	12.96	30.00	-17.04
	6685	147	15.13	15.54	18.35	-5.24	13.11	30.00	-16.89
	6725	155	15.04	15.70	18.39	-5.24	13.15	30.00	-16.85
	6845	179	14.68	15.28	18.00	-5.24	12.76	30.00	-17.24

Table 7-14. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power– SP

6GHz WIFI (40MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5965	3	15.38	15.22	18.31	-4.47	13.84	30.00	-16.16
	6165	43	15.24	15.72	18.50	-4.47	14.03	30.00	-15.97
	6285	67	14.84	15.39	18.13	-4.47	13.66	30.00	-16.34
	6405	91	14.82	15.21	18.03	-4.47	13.56	30.00	-16.44
UNII-7	6565	123	14.87	15.54	18.23	-5.24	12.99	30.00	-17.01
	6685	147	15.17	15.56	18.38	-5.24	13.14	30.00	-16.86
	6725	155	15.05	15.78	18.44	-5.24	13.20	30.00	-16.80
	6845	179	14.64	15.43	18.06	-5.24	12.82	30.00	-17.18

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

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 43 of 121

6GHz WIFI (80MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5985	7	15.33	15.05	18.20	-4.47	13.73	24.00	-10.27
	6145	39	15.13	15.32	18.24	-4.47	13.77	24.00	-10.23
	6305	71	15.30	15.11	18.22	-4.47	13.75	24.00	-10.25
	6385	87	15.36	15.22	18.30	-4.47	13.83	24.00	-10.17
UNII-6	6465	103	15.33	15.36	18.36	-4.89	13.47	24.00	-10.53
UNII-7	6545	119	14.89	15.31	18.12	-5.24	12.88	24.00	-11.12
	6705	151	15.10	15.26	18.19	-5.24	12.95	24.00	-11.05
	6785	167	14.83	15.24	18.05	-5.24	12.81	24.00	-11.19
	6865	183	15.14	15.36	18.26	-5.24	13.02	24.00	-10.98
UNII-8	6945	199	15.14	15.88	18.54	-4.67	13.87	24.00	-10.13
	7025	215	14.86	15.72	18.32	-4.67	13.65	24.00	-10.35

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

6GHz WIFI (80MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5985	7	15.38	15.12	18.26	-4.47	13.79	24.00	-10.21
	6145	39	15.21	15.37	18.30	-4.47	13.83	24.00	-10.17
	6305	71	15.33	15.16	18.26	-4.47	13.79	24.00	-10.21
	6385	87	15.33	15.29	18.32	-4.47	13.85	24.00	-10.15
UNII-6	6465	103	15.27	15.44	18.37	-4.89	13.48	24.00	-10.52
UNII-7	6545	119	15.35	15.34	18.36	-5.24	13.12	24.00	-10.88
	6705	151	15.03	15.24	18.15	-5.24	12.91	24.00	-11.09
	6785	167	15.42	15.73	18.59	-5.24	13.35	24.00	-10.65
	6865	183	15.21	15.40	18.32	-5.24	13.08	24.00	-10.92
UNII-8	6945	199	15.23	15.89	18.58	-4.67	13.91	24.00	-10.09
	7025	215	14.93	15.73	18.36	-4.67	13.69	24.00	-10.31

Table 7-17. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI / SP

6GHz WIFI (160MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6025	15	15.03	15.23	18.14	-4.47	13.67	24.00	-10.33
	6185	47	15.06	15.35	18.22	-4.47	13.75	24.00	-10.25
	6345	79	15.39	15.34	18.38	-4.47	13.91	24.00	-10.09
UNII-6	6505	111	14.92	15.76	18.37	-4.89	13.48	24.00	-10.52
UNII-7	6665	143	15.11	15.32	18.23	-5.24	12.99	24.00	-11.01
	6825	175	15.06	15.34	18.21	-5.24	12.97	24.00	-11.03
UNII-8	6985	207	14.85	15.77	18.34	-4.67	13.67	24.00	-10.33

Table 7-18. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI / SP

6GHz WIFI (160MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6025	15	14.92	15.21	18.08	-4.47	13.61	24.00	-10.39
	6185	47	15.23	15.23	18.24	-4.47	13.77	24.00	-10.23
	6345	79	15.37	15.21	18.30	-4.47	13.83	24.00	-10.17
UNII-6	6505	111	14.58	15.59	18.12	-4.89	13.23	24.00	-10.77
UNII-7	6665	143	15.07	15.33	18.21	-5.24	12.97	24.00	-11.03
	6825	175	14.92	15.34	18.15	-5.24	12.91	24.00	-11.09
UNII-8	6985	207	14.49	15.72	18.16	-4.67	13.49	24.00	-10.51

Table 7-19. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI / SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset		Page 44 of 121

6GHz WIFI (320MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6105	31	15.48	15.49	18.50	-4.47	14.03	24.00	-9.97
UNII-5	6265	63	15.39	15.38	18.40	-4.47	13.93	24.00	-10.07
UNII-6	6425	95	14.97	15.41	18.21	-4.89	13.32	24.00	-10.68
UNII-7	6585	127	14.83	15.33	18.10	-5.24	12.86	24.00	-11.14
UNII-7	6745	159	14.77	15.51	18.17	-5.24	12.93	24.00	-11.07
UNII-8	6905	191	14.73	15.45	18.12	-4.67	13.45	24.00	-10.55

Table 7-20. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI / SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 45 of 121

Band	Freq [MHz]	Channel	Puncture Size	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]
				Puncture Case												
				90			91			93						
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	5985	7	20MHz	15.15	15.28	18.23	15.20	15.25	18.24	15.19	15.05	18.13	-4.47	13.77	24.00	-10.23
	6145	39	20MHz	15.20	14.91	18.07	15.27	15.10	18.20	15.26	15.17	18.23	-4.47	13.76	24.00	-10.24
	6385	87	20MHz	15.23	15.35	18.30	15.24	15.48	18.37	14.95	15.10	18.04	-4.47	13.90	24.00	-10.10
6	6465	103	20MHz	15.05	15.23	18.15	15.20	15.42	18.32	15.24	15.44	18.35	-4.89	13.46	24.00	-10.54
	6545	119	20MHz	15.48	15.23	18.37	15.23	14.97	18.11	15.26	14.97	18.13	-5.24	13.13	24.00	-10.87
	6705	151	20MHz	15.10	15.67	18.40	14.93	15.54	18.26	15.01	15.44	18.24	-5.24	13.17	24.00	-10.83
7	6865	183	20MHz	15.13	15.64	18.40	15.12	15.75	18.46	15.12	15.78	18.47	-5.24	13.24	24.00	-10.76
	6945	199	20MHz	15.29	15.69	18.50	15.10	15.70	18.42	14.99	15.54	18.28	-4.67	13.84	24.00	-10.16
	7025	215	20MHz	14.71	15.44	18.10	14.77	15.63	18.23	14.76	15.66	18.24	-4.67	13.58	24.00	-10.42

Table 7-21. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture – LPI

Band	Freq [MHz]	Channel	Puncture Size	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]
				Puncture Case												
				90			91			93						
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	5985	7	20MHz	15.15	15.28	18.23	15.20	15.25	18.24	15.19	15.05	18.13	-4.47	13.77	30.00	-16.23
	6145	39	20MHz	15.20	14.91	18.07	15.27	15.10	18.20	15.26	15.17	18.23	-4.47	13.76	30.00	-16.24
	6385	87	20MHz	15.23	15.35	18.30	15.24	15.48	18.37	14.95	15.10	18.04	-4.47	13.90	30.00	-16.10
7	6545	119	20MHz	15.48	15.23	18.37	15.23	14.97	18.11	15.26	14.97	18.13	-5.24	13.13	24.00	-10.87
	6705	151	20MHz	15.10	15.67	18.40	14.93	15.54	18.26	15.01	15.44	18.24	-5.24	13.17	30.00	-16.83
	6865	183	20MHz	15.13	15.64	18.40	15.12	15.75	18.46	15.12	15.78	18.47	-5.24	13.24	24.00	-10.76

Table 7-22. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture – SP

Band	Freq [MHz]	Channel	Puncture Size	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]
				Puncture Case												
				96			99			1099						
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	6025	15	20MHz	15.54	15.06	18.32	15.05	14.94	18.01	15.33	14.79	18.08	-4.47	13.85	24.00	-10.15
	6185	47	20MHz	15.16	15.20	18.19	15.39	15.48	18.45	15.38	15.30	18.35	-4.47	13.98	24.00	-10.02
	6345	79	20MHz	15.05	15.06	18.07	15.43	14.88	18.17	15.37	14.81	18.11	-4.47	13.70	24.00	-10.30
6	6505	111	20MHz	15.04	15.27	18.17	15.16	14.96	18.07	15.14	15.53	18.35	-4.89	13.46	24.00	-10.54
	6665	143	20MHz	15.35	15.59	18.48	15.21	15.42	18.33	15.16	15.46	18.32	-5.24	13.25	24.00	-10.75
7	6825	175	20MHz	14.55	15.60	18.12	14.67	15.54	18.14	14.60	15.47	18.07	-5.24	12.90	24.00	-11.10
	6985	207	20MHz	15.03	15.29	18.17	15.02	15.25	18.15	15.22	15.14	18.19	-4.67	13.52	24.00	-10.48

Table 7-23. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture – LPI/SP

Band	Freq [MHz]	Channel	Puncture Size	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]
				Puncture Case												
				94			95			1094						
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	6025	15	40MHz	15.29	14.82	18.07	15.22	14.88	18.06	15.21	14.80	18.02	-4.47	13.60	24.00	-10.40
	6185	47	40MHz	15.31	15.44	18.39	15.27	15.33	18.31	15.43	15.46	18.46	-4.47	13.99	24.00	-10.01
	6345	79	40MHz	15.24	15.47	18.37	15.29	15.30	18.31	15.45	15.29	18.38	-4.47	13.91	24.00	-10.09
6	6505	111	40MHz	15.26	14.74	18.02	15.21	14.80	18.02	15.25	14.78	18.03	-4.89	13.14	24.00	-10.86
	6665	143	40MHz	15.09	15.40	18.26	15.18	15.42	18.31	15.15	15.52	18.35	-5.24	13.11	24.00	-10.89
7	6825	175	40MHz	15.10	15.71	18.43	15.16	15.60	18.40	14.95	15.53	18.26	-5.24	13.19	24.00	-10.81
	6985	207	40MHz	15.07	15.21	18.15	15.05	15.23	18.15	15.19	15.12	18.17	-4.67	13.50	24.00	-10.50

Table 7-24. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – 40MHz Puncture – LPI/SP

Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)									Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
				Puncture Case												
				100			1101			11103						
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	6105	31	40MHz	15.07	15.17	18.13	15.86	14.93	18.43	15.75	15.21	18.50	-4.47	14.03	24.00	-9.97
	6265	63	40MHz	15.59	15.19	18.40	15.63	15.22	18.44	15.61	15.25	18.44	-4.47	13.97	24.00	-10.03
6	6425	95	40MHz	15.09	15.17	18.14	15.15	15.17	18.17	15.13	15.32	18.24	-4.89	13.35	24.00	-10.65
7	6585	127	40MHz	15.26	15.02	18.15	15.44	15.28	18.37	15.23	15.02	18.14	-5.24	13.13	24.00	-10.87
8	6745	159	40MHz	15.13	15.42	18.29	15.23	15.39	18.32	15.00	15.43	18.23	-5.24	13.08	24.00	-10.92
	6905	191	40MHz	15.02	15.62	18.34	15.22	15.47	18.36	14.87	15.54	18.23	-4.67	13.69	24.00	-10.31

Table 7-25. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – 40MHz Puncture – LPI/SP

Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)												Dir. Ant. Gain	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Puncture Case															
				104			1104			11104									
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	MIMO	MIMO	MIMO				
5	6105	31	80MHz	14.44	14.11	18.11	15.34	14.60	18.00	15.73	14.81	18.30	-4.47	13.84	24.00	-10.16			
	6265	63	80MHz	15.29	15.05	18.18	15.19	14.97	18.09	15.36	14.93	18.16	-4.47	13.71	24.00	-10.29			
	6425	95	80MHz	15.20	15.33	18.28	15.22	15.32	18.28	15.38	15.27	18.34	-4.89	13.45	24.00	-10.55			
7	6585	127	80MHz	15.46	15.10	18.29	15.64	15.25	18.46	15.58	15.23	18.42	-5.24	13.22	24.00	-10.78			
	6745	159	80MHz	15.40	15.39	18.41	15.49	15.29	18.40	15.52	15.39	18.47	-5.24	13.23	24.00	-10.77			
	6905	191	80MHz	15.17	15.55	18.37	15.48	15.49	18.50	15.59	15.45	18.53	-4.67	13.87	24.00	-10.13			

Table 7-26. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – 80MHz Puncture – LPI/SP

Band	Freq [MHz]	Channel	Puncture Size	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]
				Puncture Case													
				105			1105			11105							
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO					
5	6105	31	120MHz	15.66	14.90	18.31	14.51	15.10	18.02	14.96	15.04	18.01	-4.47	13.84	24.00	-10.16	
	6265	63	120MHz	15.43	15.01	18.24	15.08	15.22	18.16	15.16	14.97	18.08	-4.47	13.77	24.00	-10.23	
	6425	95	120MHz	15.42	15.15	18.30	15.31	15.13	18.23	15.29	15.07	18.19	-4.89	13.41	24.00	-10.59	
	6585	127	120MHz	15.54	15.24	18.40	15.43	15.23	18.34	15.61	15.15	18.40	-5.47	13.17	24.00	-10.83	
7	6745	159	120MHz	15.12	15.18	18.16	14.57	15.02	18.01	15.32	18.18	18.06	-5.24	12.94	24.00	-11.06	
	6905	191	120MHz	15.24	15.73	18.50	15.55	15.50	18.45	15.49	15.52	18.52	-5.24	13.87	24.00	-10.13	



Sample MIMO Calculation:

At 5935MHz in 802.11a (20MHz BW) mode, the average conducted output power was measured to be 14.68 dBm for Antenna-1 and 15.64 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(14.68 \text{ dBm} + 15.64 \text{ dBm}) = (29.376 \text{ mW} + 36.644 \text{ mW}) = 66.020 \text{ mW} = 18.20 \text{ dBm}$$

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.

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

Sample e.i.r.p. Calculation:

At 5935MHz in 802.11a (20MHz BW) mode, the average MIMO conducted power was calculated to be 18.20 dBm with directional gain of -4.47 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$18.20 \text{ dBm} + -4.47 \text{ dBi} = 13.73 \text{ dBm}$$

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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 for 802.11a/ax.

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 $\geq 2 \times (\text{span}/\text{RBW})$
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

SP 80/160/320MHz BW share the same target as LPI 80/160/320MHz BW, and only the emissions from worst-case have been reported.

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MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	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	a	-1.42	-0.38	-6.41	-8.70	2.15	-4.47	0.28	-2.04	-1	-1.04
	6175	45	a	-0.95	-0.49	-6.41	-8.70	2.30	-4.47	0.28	-1.89	-1	-0.89
	6415	93	a	-1.22	-0.57	-6.41	-8.70	2.13	-4.47	0.28	-2.06	-1	-1.06
	5935	2	be (20MHz)	-1.42	-0.29	-6.41	-8.70	2.20	-4.47	0.00	-2.27	-1	-1.27
	6175	45	be (20MHz)	-0.97	-0.52	-6.41	-8.70	2.27	-4.47	0.00	-2.20	-1	-1.20
	6415	93	be (20MHz)	-1.21	-0.28	-6.41	-8.70	2.29	-4.47	0.00	-2.18	-1	-1.18
	5965	3	be (40MHz)	-2.29	-2.07	-6.41	-8.70	0.83	-4.47	0.00	-3.64	-1	-2.64
	6165	43	be (40MHz)	-2.12	-1.25	-6.41	-8.70	1.35	-4.47	0.00	-3.12	-1	-2.12
	6405	91	be (40MHz)	-1.78	-1.46	-6.41	-8.70	1.40	-4.47	0.00	-3.07	-1	-2.07
	5985	7	be (80MHz)	-2.87	-1.74	-6.41	-8.70	0.74	-4.47	0.00	-3.73	-1	-2.73
	6145	39	be (80MHz)	-2.70	-2.22	-6.41	-8.70	0.55	-4.47	0.00	-3.91	-1	-2.91
	6385	87	be (80MHz)	-2.52	-1.95	-6.41	-8.70	0.78	-4.47	0.00	-3.68	-1	-2.68
	6025	15	be (160MHz)	-5.64	-5.27	-6.41	-8.70	-2.44	-4.47	0.00	-6.91	-1	-5.91
	6185	47	be (160MHz)	-5.86	-5.13	-6.41	-8.70	-2.46	-4.47	0.00	-6.93	-1	-5.93
	6345	79	be (160MHz)	-5.86	-5.38	-6.41	-8.70	-2.60	-4.47	0.00	-7.07	-1	-6.07
	6105	31	be (320MHz)	-8.03	-7.47	-6.41	-8.70	-4.73	-4.47	0.00	-9.20	-1	-8.20
	6265	63	be (320MHz)	-8.22	-6.86	-6.41	-8.70	-4.48	-4.47	0.00	-8.95	-1	-7.95
Band 6	6435	97	a	-1.17	-0.51	-6.42	-9.68	2.19	-4.89	0.28	-2.42	-1	-1.42
	6475	105	a	-1.13	-0.43	-6.42	-9.68	2.24	-4.89	0.28	-2.37	-1	-1.37
	6515	113	a	-1.24	-0.57	-6.42	-9.68	2.12	-4.89	0.28	-2.49	-1	-1.49
	6435	97	be (20MHz)	-0.83	-0.38	-6.42	-9.68	2.42	-4.89	0.00	-2.47	-1	-1.47
	6475	105	be (20MHz)	-1.15	-0.20	-6.42	-9.68	2.36	-4.89	0.00	-2.53	-1	-1.53
	6515	113	be (20MHz)	-1.34	-0.45	-6.42	-9.68	2.14	-4.89	0.00	-2.75	-1	-1.75
	6445	99	be (40MHz)	-1.89	-1.26	-6.42	-9.68	1.45	-4.89	0.00	-3.44	-1	-2.44
	6485	107	be (40MHz)	-1.92	-1.24	-6.42	-9.68	1.44	-4.89	0.00	-3.44	-1	-2.44
	6525	115	be (40MHz)	-2.11	-1.46	-6.42	-9.68	1.23	-4.89	0.00	-3.65	-1	-2.65
	6465	103	be (80MHz)	-2.61	-1.94	-6.42	-9.68	0.75	-4.89	0.00	-4.14	-1	-3.14
	6505	111	be (160MHz)	-6.11	-5.04	-6.42	-9.68	-2.53	-4.89	0.00	-7.42	-1	-6.42
	6425	95	be (320MHz)	-8.51	-6.95	-6.41	-8.70	-4.65	-4.47	0.00	-9.12	-1	-8.12
Band 5/6/7	6535	117	a	-0.95	-0.50	-6.41	-10.58	2.29	-5.24	0.28	-2.66	-1	-1.66
Band 7	6695	149	a	-1.08	-0.40	-6.41	-10.58	2.29	-5.24	0.28	-2.67	-1	-1.67
	6875	185	a	-1.64	-0.46	-6.41	-10.58	2.00	-5.24	0.28	-2.96	-1	-1.96
	6535	117	be (20MHz)	-1.15	-0.94	-6.41	-10.58	1.97	-5.24	0.00	-3.27	-1	-2.27
	6695	149	be (20MHz)	-1.25	-1.29	-6.41	-10.58	1.74	-5.24	0.00	-3.50	-1	-2.50
	6875	185	be (20MHz)	-1.66	-0.85	-6.41	-10.58	1.78	-5.24	0.00	-3.46	-1	-2.46
	6565	123	be (40MHz)	-1.96	-1.27	-6.41	-10.58	1.41	-5.24	0.00	-3.83	-1	-2.83
	6725	155	be (40MHz)	-2.31	-1.05	-6.41	-10.58	1.37	-5.24	0.00	-3.86	-1	-2.86
	6885	179	be (40MHz)	-2.61	-1.14	-6.41	-10.58	1.20	-5.24	0.00	-4.04	-1	-3.04
	6545	119	be (80MHz)	-2.70	-1.92	-6.41	-10.58	0.72	-5.24	0.00	-4.52	-1	-3.52
	6705	151	be (80MHz)	-2.60	-1.77	-6.41	-10.58	0.85	-5.24	0.00	-4.39	-1	-3.39
	6865	183	be (80MHz)	-3.24	-2.25	-6.41	-10.58	0.29	-5.24	0.00	-4.95	-1	-3.95
	6665	143	be (160MHz)	-6.37	-4.78	-6.41	-10.58	-2.49	-5.24	0.00	-7.73	-1	-6.73
	6825	175	be (160MHz)	-6.18	-5.27	-6.41	-10.58	-2.69	-5.24	0.00	-7.93	-1	-6.93
Band 6/7	6585	127	be (320MHz)	-8.44	-6.82	-6.41	-9.68	-4.54	-4.88	0.00	-9.42	-1	-8.42
Band 7/8	6745	159	be (320MHz)	-8.45	-6.46	-6.41	-8.97	-4.33	-4.59	0.00	-8.92	-1	-7.92
Band 8	6895	189	a	-1.32	-0.61	-6.55	-8.97	2.06	-4.67	0.28	-2.33	-1	-1.33
	6995	209	a	-1.51	0.67	-6.55	-8.97	2.72	-4.67	0.28	-1.66	-1	-0.66
	7115	233	a	-0.87	-1.11	-6.55	-8.97	2.02	-4.67	0.28	-2.36	-1	-1.36
	6895	189	be (20MHz)	-1.58	-0.94	-6.55	-8.97	1.77	-4.67	0.00	-2.90	-1	-1.90
	6995	209	be (20MHz)	-2.05	-0.11	-6.55	-8.97	2.04	-4.67	0.00	-2.63	-1	-1.63
	7115	233	be (20MHz)	-1.39	-1.17	-6.55	-8.97	1.73	-4.67	0.00	-2.93	-1	-1.93
	6925	187	be (40MHz)	-2.47	-1.40	-6.55	-8.97	1.11	-4.67	0.00	-3.55	-1	-2.55
	7005	211	be (40MHz)	-2.52	-0.61	-6.55	-8.97	1.55	-4.67	0.00	-3.11	-1	-2.11
	7085	227	be (40MHz)	-2.07	-1.50	-6.55	-8.97	1.24	-4.67	0.00	-3.43	-1	-2.43
	6945	199	be (80MHz)	-2.89	-1.80	-6.55	-8.97	0.70	-4.67	0.00	-3.97	-1	-2.97
	7025	215	be (80MHz)	-3.01	-1.01	-6.55	-8.97	1.12	-4.67	0.00	-3.55	-1	-2.55
	6985	207	be (160MHz)	-5.32	-4.62	-6.55	-8.97	-1.94	-4.67	0.00	-6.61	-1	-5.61
Band 7/8	6905	191	be (320MHz)	-7.98	-7.55	-6.55	-8.97	-4.75	-4.67	0.00	-9.41	-1	-8.41

Table 7-28. MIMO e.i.r.p. Conducted Power Spectral Density Measurements LPI

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	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	DCCF	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	6145	39	be (80MHz)	20MHz	-0.93	-0.65	-6.41	-8.70	2.22	-4.47	0.00	-2.25	-1	-1.25
	6185	47	be (160MHz)	20MHz	-4.47	-3.90	-6.41	-8.70	-1.16	-4.47	0.00	-5.63	-1	-4.63
	6185	47	be (160MHz)	40MHz	-4.37	-3.70	-6.41	-8.70	-1.01	-4.47	0.00	-5.48	-1	-4.48
	6105	31	be (320MHz)	40MHz	-7.41	-7.09	-6.42	-9.68	-4.24	-4.89	0.00	-9.13	-1	-8.13
	6105	31	be (320MHz)	80MHz	-6.90	-6.35	-6.42	-9.68	-3.60	-4.89	0.00	-8.49	-1	-7.49
Band 6	6105	31	be (320MHz)	120MHz	-6.30	-6.45	-6.42	-9.68	-3.36	-4.89	0.00	-8.25	-1	-7.25
	6465	103	be (80MHz)	20MHz	-0.99	-0.32	-6.42	-9.68	2.37	-4.89	0.00	-2.52	-1	-1.52
	6505	111	be (80MHz)	20MHz	-4.88	-3.87	-6.42	-9.68	-1.34	-4.89	0.00	-6.22	-1	-5.22
Band 5/6/7	6505	111	be (160MHz)	40MHz	-4.51	-3.48	-6.42	-9.68	-0.95	-4.89	0.00	-5.84	-1	-4.84
	6425	95	be (320MHz)	40MHz	-8.01	-6.65	-6.41	-8.70	-4.27	-4.47	0.00	-8.74	-1	-7.74
	6425	95	be (320MHz)	80MHz	-7.27	-5.32	-6.41	-8.70	-3.17	-4.47	0.00	-7.64	-1	-6.64
Band 7	6425	95	be (320MHz)	120MHz	-6.72	-4.89	-6.41	-8.70	-2.70	-4.47	0.00	-7.17	-1	-6.17
	6705	151	be (80MHz)	20MHz	-1.11	-0.26	-6.41	-10.58	2.35	-5.24	0.00	-2.89	-1	-1.89
	6665	143	be (160MHz)	20MHz	-4.93	-3.34	-6.41	-10.58	-1.05	-5.24	0.00	-6.29	-1	-5.29
Band 7/8	6665	143	be (160MHz)	40MHz	-4.50	-2.94	-6.41	-10.58	-0.64	-5.24	0.00	-5.88	-1	-4.88
	6745	159	be (320MHz)	40MHz	-7.27	-5.93	-6.41	-8.97	-3.54	-4.59	0.00	-8.12	-1	-7.12
	6745	159	be (320MHz)	80MHz	-7.20	-5.67	-6.41	-8.97	-3.36	-4.59	0.00	-7.94	-1	-6.94
Band 8	6745	159	be (320MHz)	120MHz	-6.60	-4.68	-6.41	-8.97	-2.53	-4.59	0.00	-7.11	-1	-6.11
	7025	215	be (80MHz)	20MHz	-1.43	0.45	-6.55	-8.97	2.62	-4.67	0.00	-2.04	-1	-1.04
Band 7/8	6985	207	be (160MHz)	20MHz	-5.42	-4.11	-6.55	-8.97	-1.71	-4.67	0.00	-6.37	-1	-5.37
	6985	207	be (160MHz)	40MHz	-4.97	-4.03	-6.55	-8.97	-1.46	-4.67	0.00	-6.13	-1	-5.13
	6905	191	be (320MHz)	40MHz	-8.01	-7.66	-6.41	-8.97	-4.82	-4.59	0.00	-9.41	-1	-8.41
Band 7/8	6905	191	be (320MHz)	80MHz	-7.45	-6.71	-6.41	-8.97	-4.05	-4.59	0.00	-8.64	-1	-7.64
	6905	191	be (320MHz)	120MHz	-7.51	-6.47	-6.41	-8.97	-3.95	-4.59	0.00	-8.54	-1	-7.54

Table 7-29. MIMO e.i.r.p. Conducted Power Spectral Density Measurements – Punctured Cases LPI/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	a	3.93	4.88	-6.41	-8.70	7.45	-4.47	0.28	3.26	17	-13.74
	6175	45	a	4.00	4.52	-6.41	-8.70	7.28	-4.47	0.28	3.09	17	-13.91
	6415	93	a	3.62	4.63	-6.41	-8.70	7.16	-4.47	0.28	2.97	17	-14.03
	5935	2	be (20MHz)	3.85	4.46	-6.41	-8.70	7.18	-4.47	0.00	2.71	17	-14.29
	6175	45	be (20MHz)	3.85	4.34	-6.41	-8.70	7.11	-4.47	0.00	2.64	17	-14.36
	6415	93	be (20MHz)	3.44	4.33	-6.41	-8.70	6.92	-4.47	0.00	2.45	17	-14.55
	5965	3	be (40MHz)	0.67	1.84	-6.41	-8.70	4.31	-4.47	0.00	-0.16	17	-17.16
	6165	43	be (40MHz)	0.84	1.42	-6.41	-8.70	4.15	-4.47	0.00	-0.32	17	-17.32
	6405	91	be (40MHz)	0.98	1.43	-6.41	-8.70	4.22	-4.47	0.00	-0.25	17	-17.25
	6535	117	a	3.61	4.36	-6.41	-10.58	7.01	-5.24	0.28	2.05	17	-14.95
Band 7	6695	149	a	3.71	4.52	-6.41	-10.58	7.14	-5.24	0.28	2.19	17	-14.81
	6855	181	a	3.22	4.85	-6.41	-10.58	7.12	-5.24	0.28	2.16	17	-14.84
	6535	117	be (20MHz)	3.40	4.39	-6.41	-10.58	6.94	-5.24	0.00	1.70	17	-15.30
	6695	149	be (20MHz)	3.21	4.24	-6.41	-10.58	6.77	-5.24	0.00	1.53	17	-15.47
	6855	181	be (20MHz)	3.26	4.66	-6.41	-10.58	7.03	-5.24	0.00	1.79	17	-15.21
	6565	123	be (40MHz)	0.43	1.54	-6.41	-10.58	4.03	-5.24	0.00	-1.21	17	-18.21
	6725	155	be (40MHz)	0.49	1.73	-6.41	-10.58	4.16	-5.24	0.00	-1.07	17	-18.07
	6885	179	be (40MHz)	0.07	1.46	-6.41	-10.58	3.83	-5.24	0.00	-1.40	17	-18.40

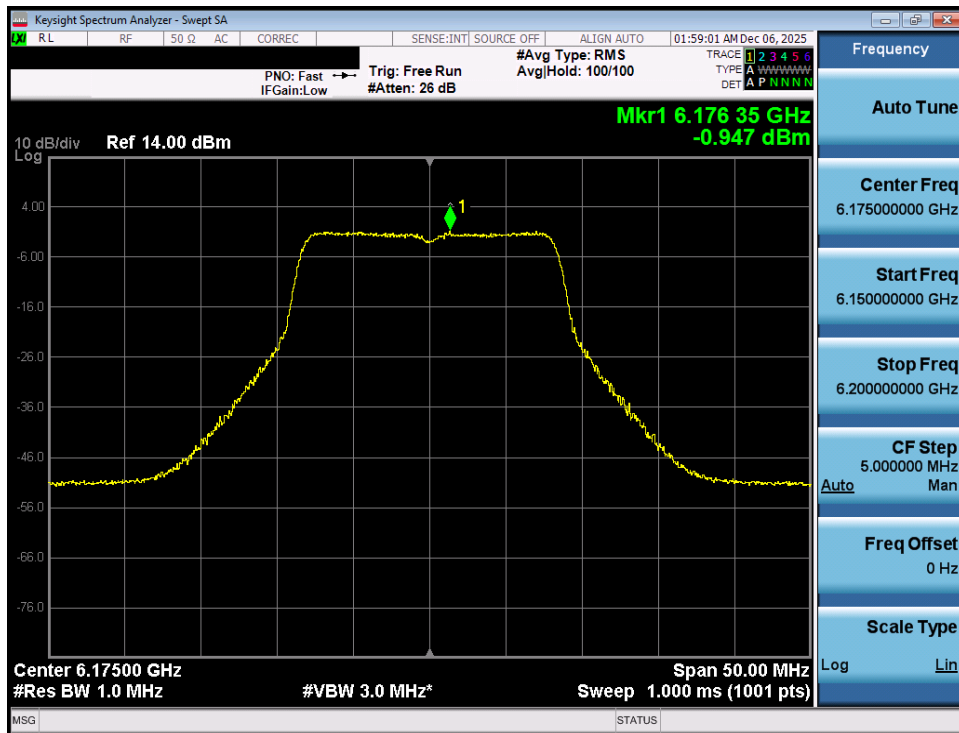
Table 7-30. MIMO e.i.r.p. Conducted Power Spectral Density Measurements SP

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	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]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	6145	39	be (80MHz)	20MHz	-1.18	-0.65	-6.41	-8.70	2.10	-4.47	-2.37	17	-19.37
Band 7	6705	151	be (80MHz)	20MHz	-1.51	-0.26	-6.41	-10.58	2.17	-5.24	-3.06	17	-20.06

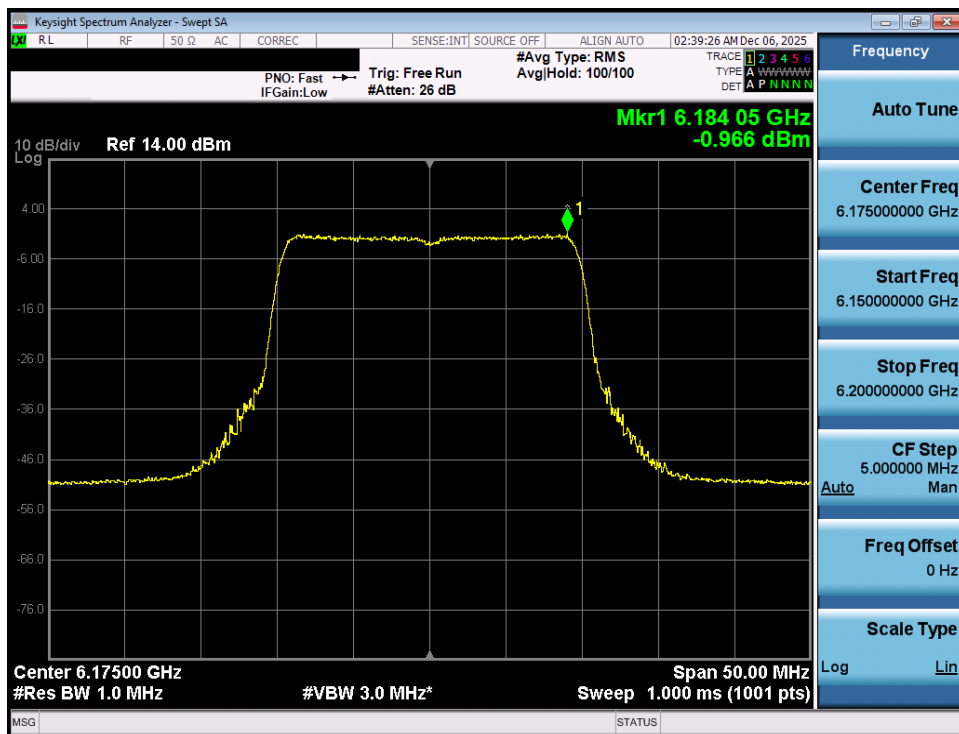
Table 7-31. MIMO e.i.r.p. Conducted Power Spectral Density Measurements – Punctured Cases SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset		Page 50 of 121

7.4.1 MIMO Antenna-1 Power Spectral Density Measurement - (UNII Band 5)

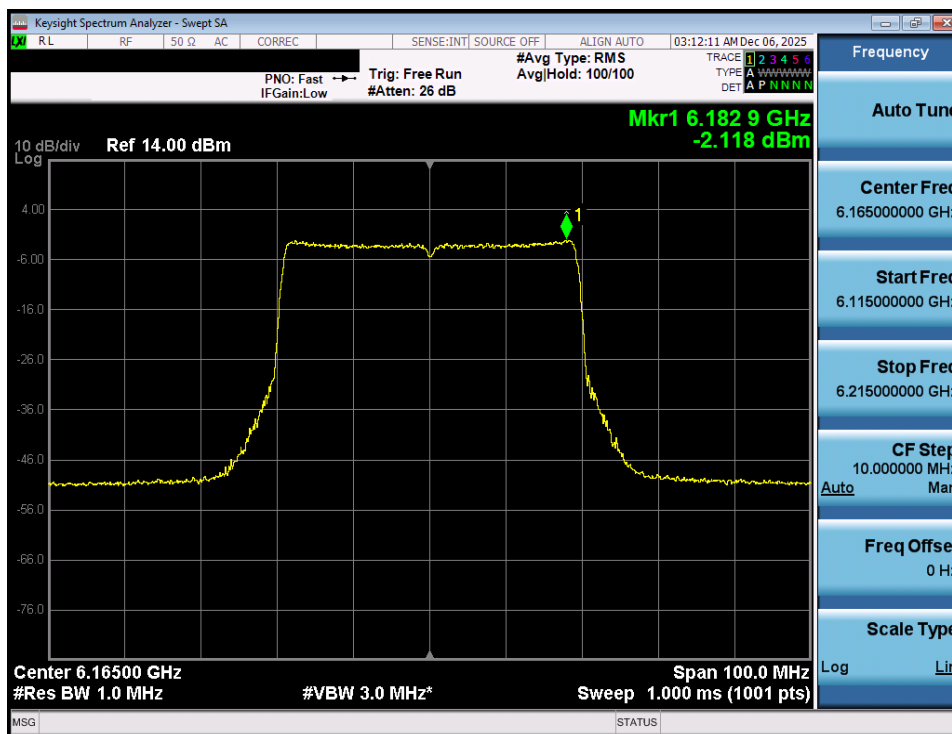


Plot 7-25. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45) - LPI

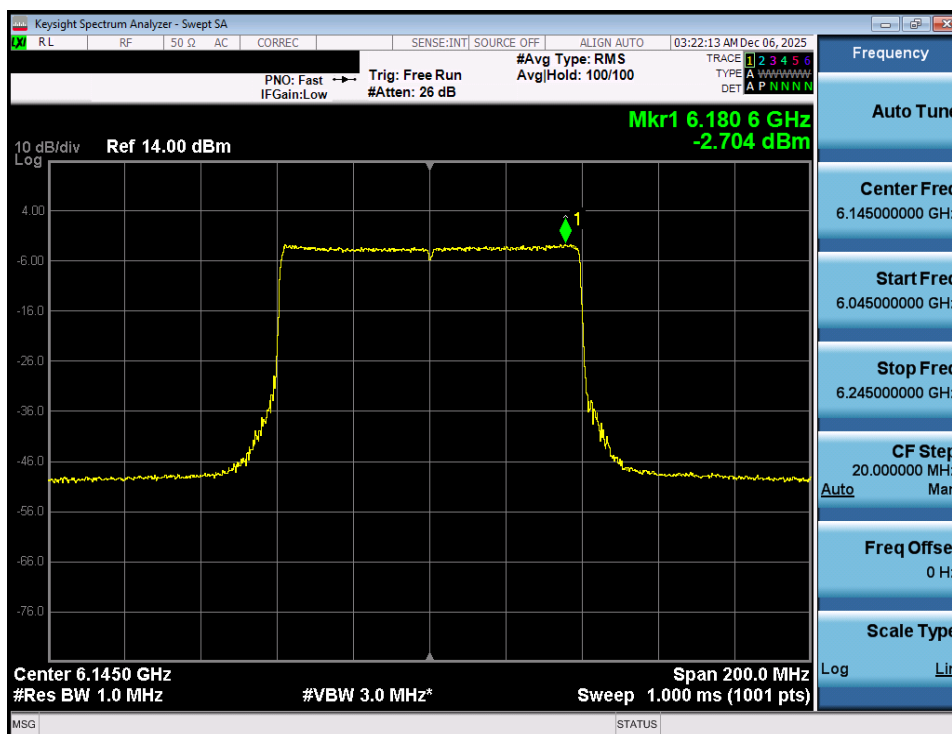


Plot 7-26. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 51 of 121

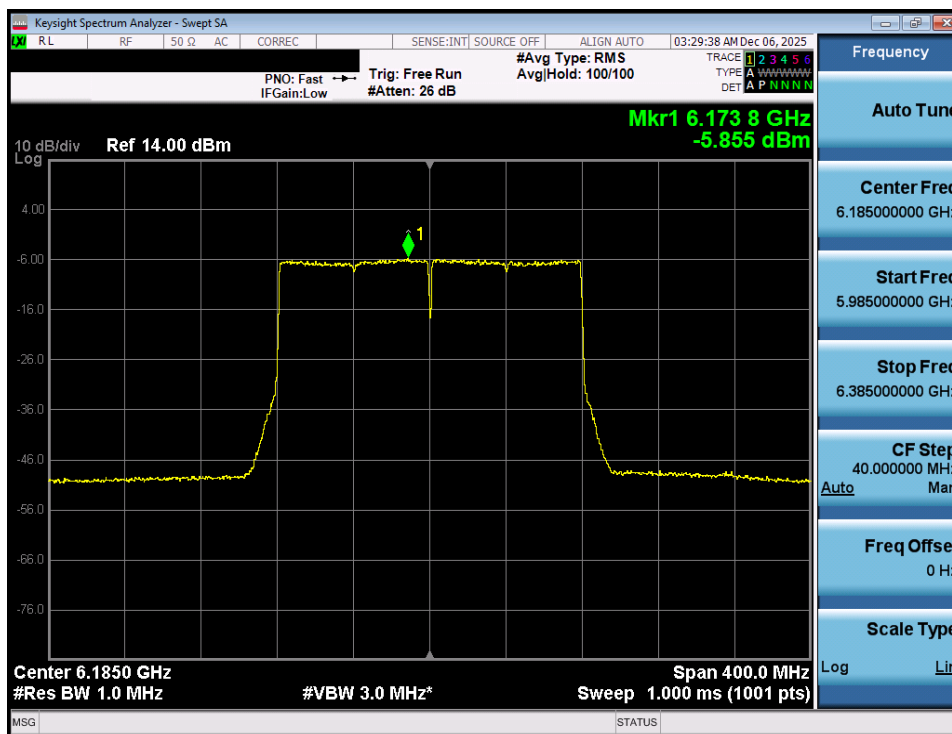


Plot 7-27. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - LPI

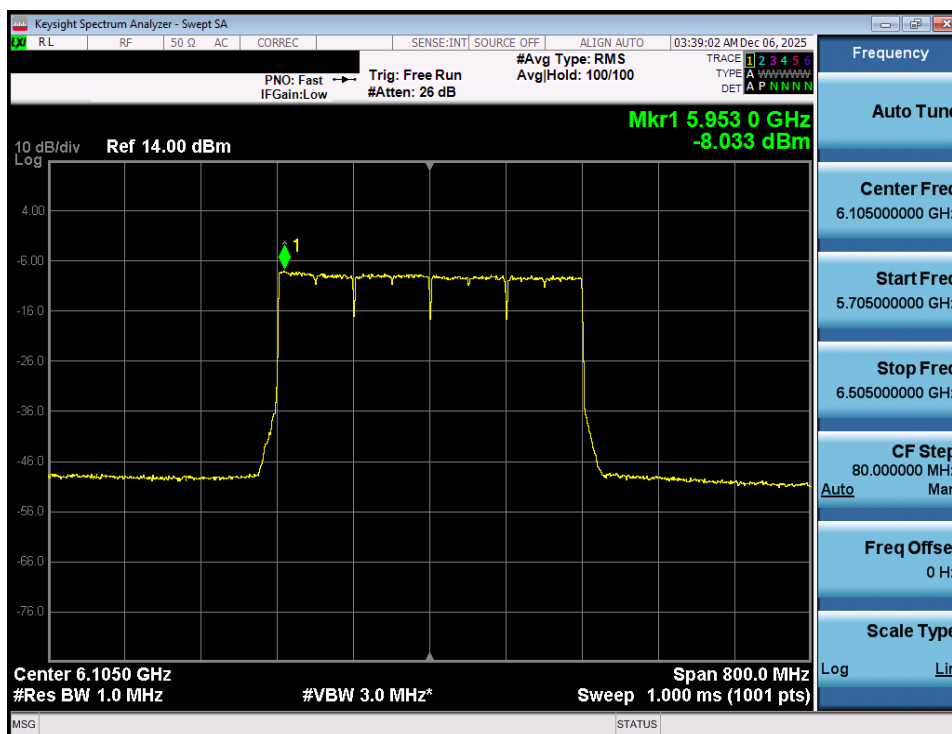


Plot 7-28. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 52 of 121

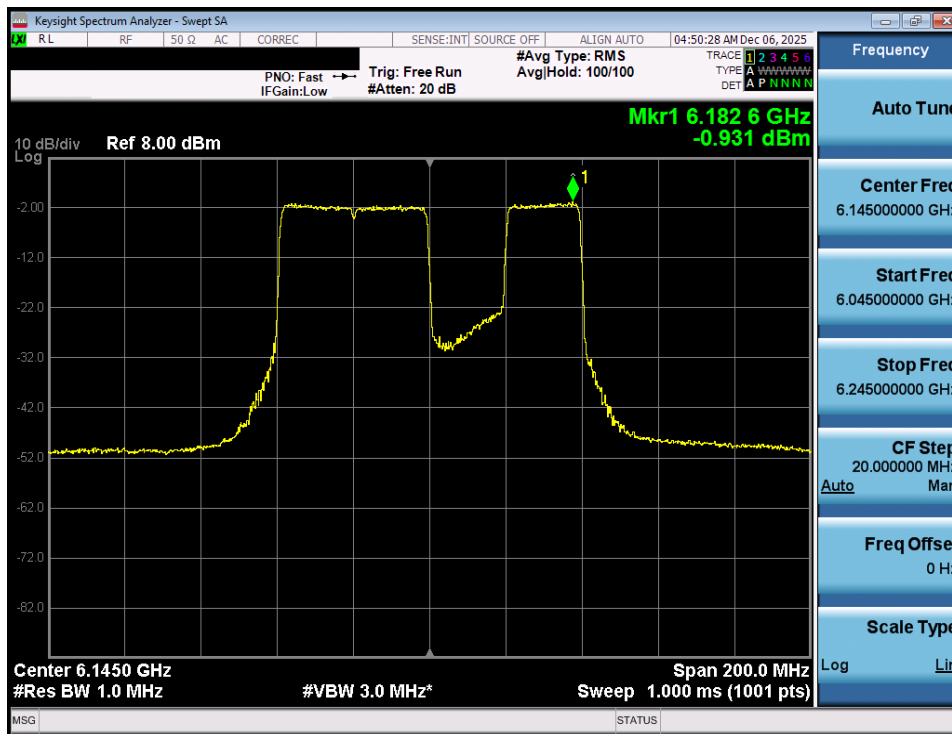


Plot 7-29. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI/SP

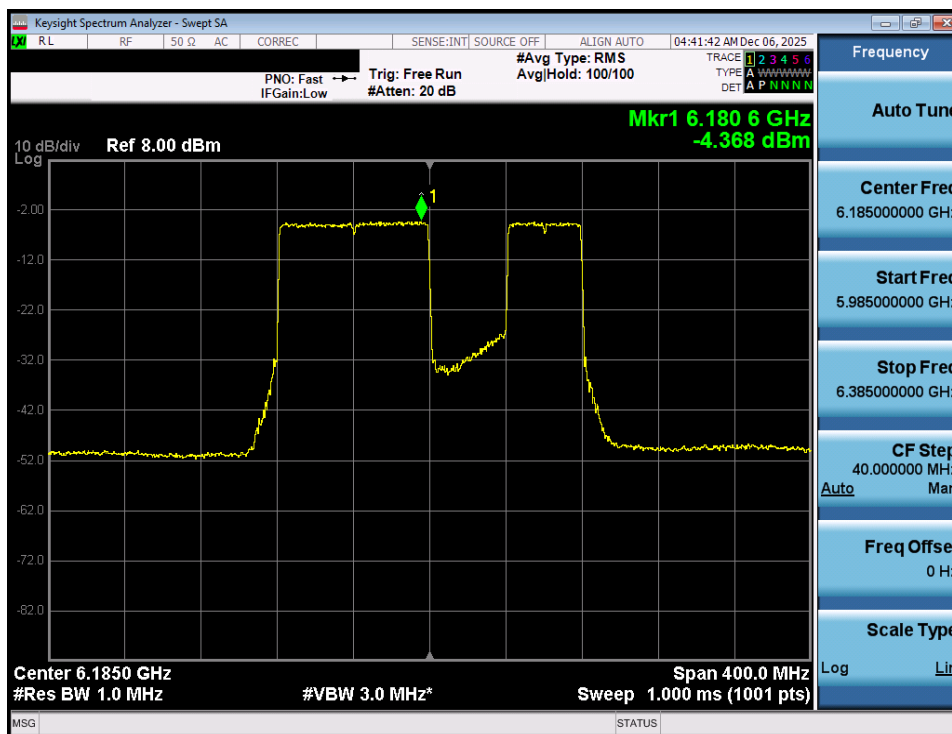


Plot 7-30. Power Spectral Density Plot MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 53 of 121

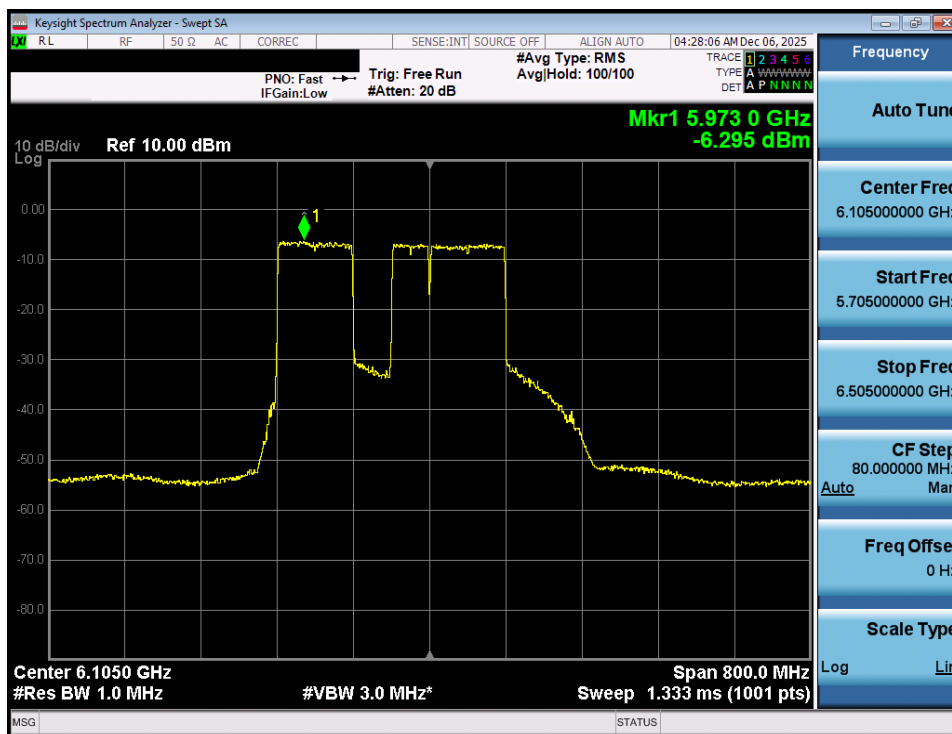


Plot 7-31. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11be (UNII Band 5) – Ch. 39) – 20MHz Punctured - LPI/SP



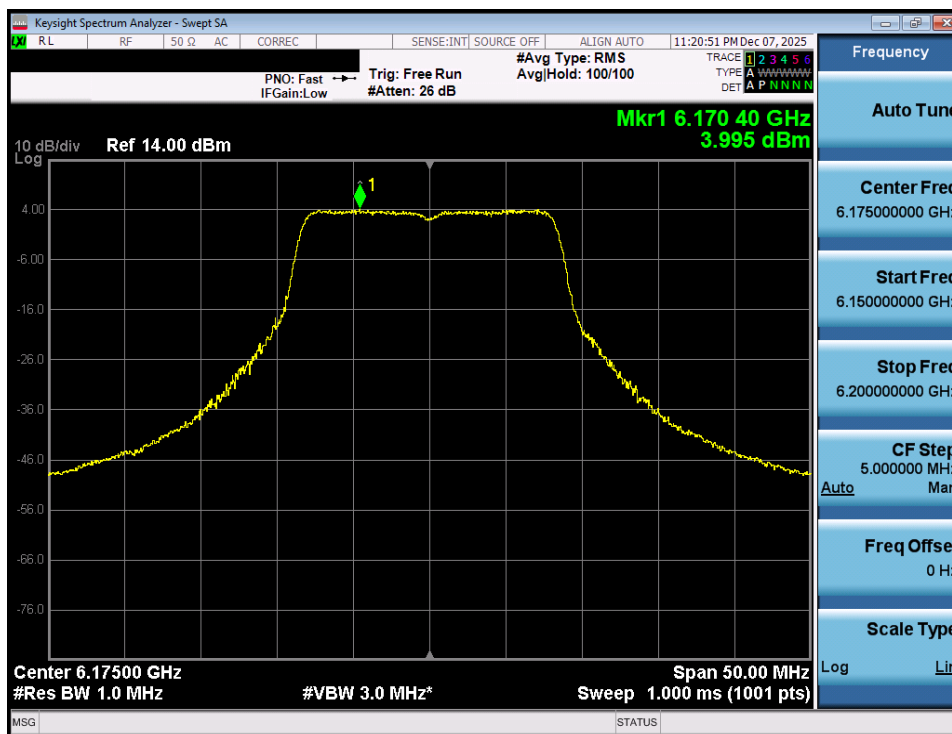
Plot 7-32. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11be (UNII Band 5) – Ch. 47) – 40MHz Punctured - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 54 of 121

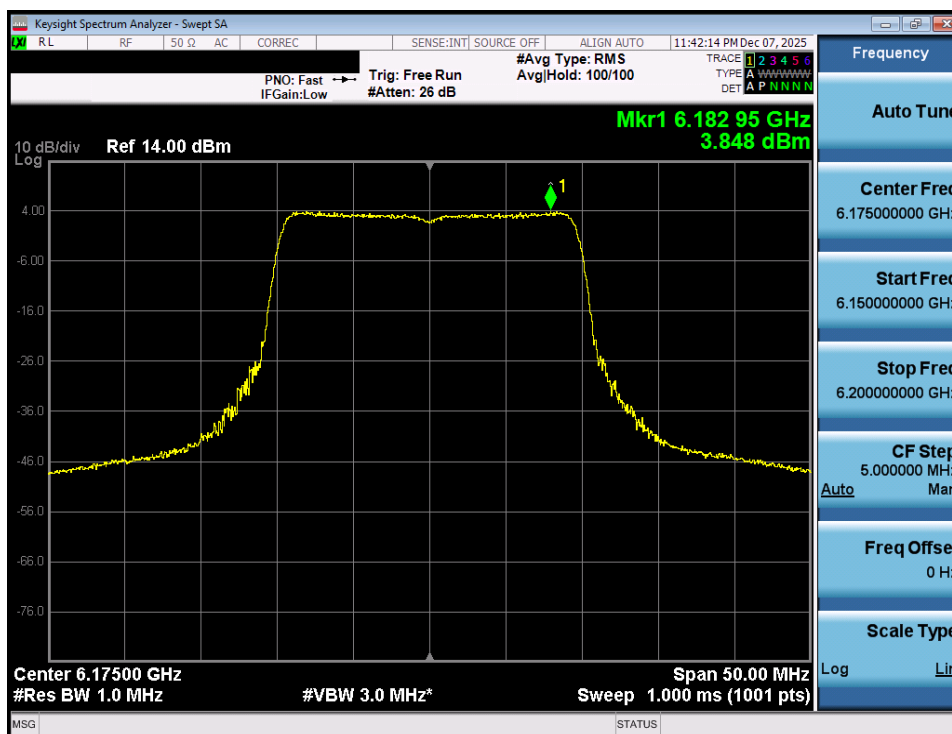


Plot 7-33. Power Spectral Density Plot MIMO ANT1 (320MHz 802.11be (UNII Band 5) – Ch. 31) – 120MHz Punctured – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 55 of 121

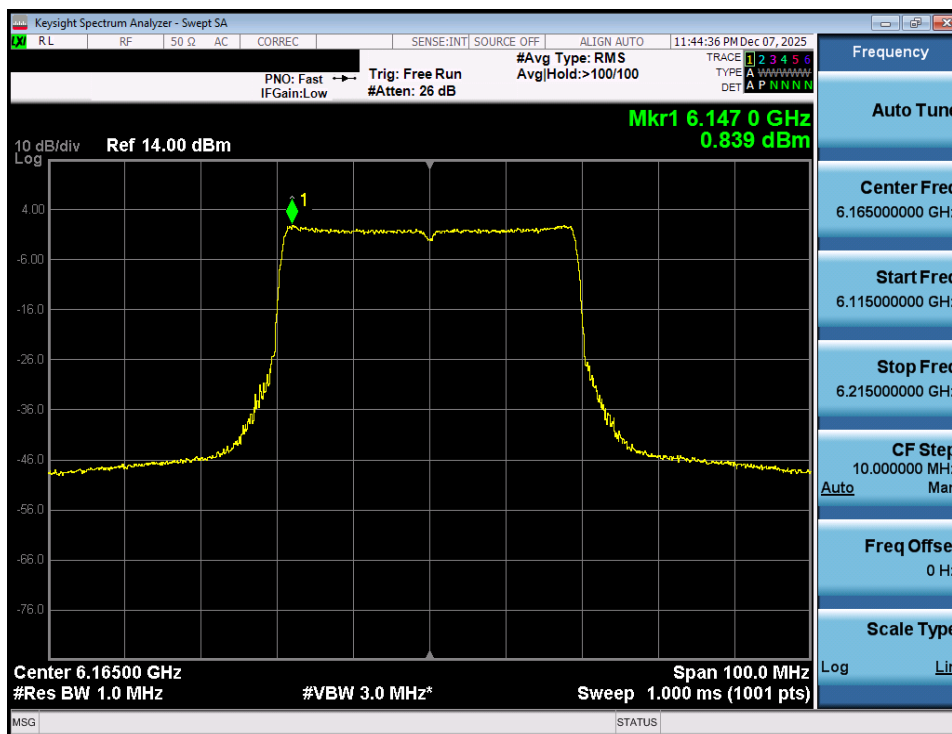


Plot 7-34. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP



Plot 7-35. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

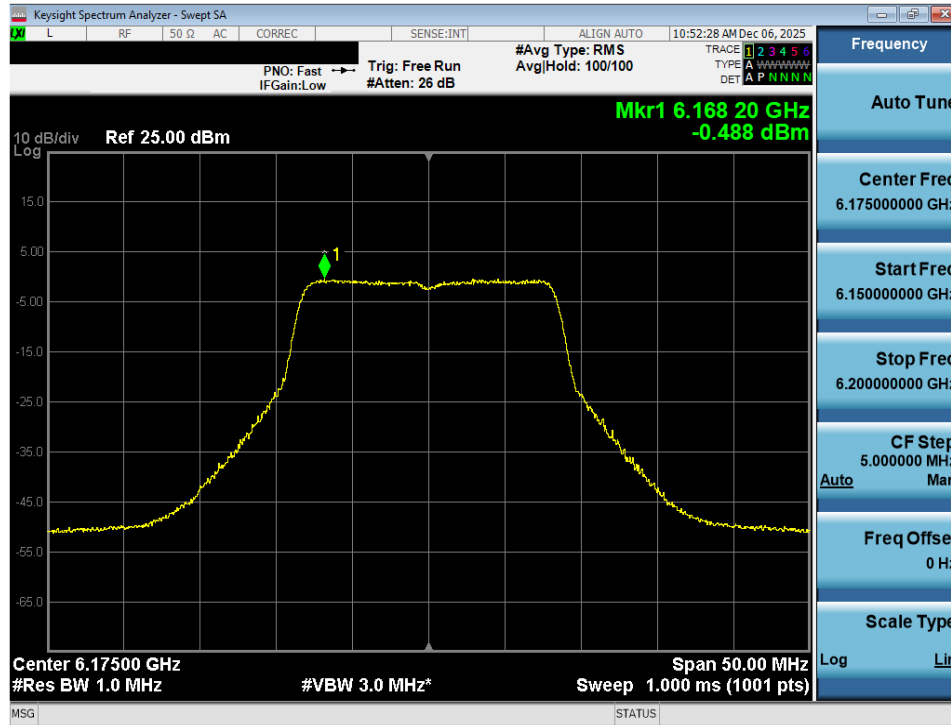
FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 56 of 121



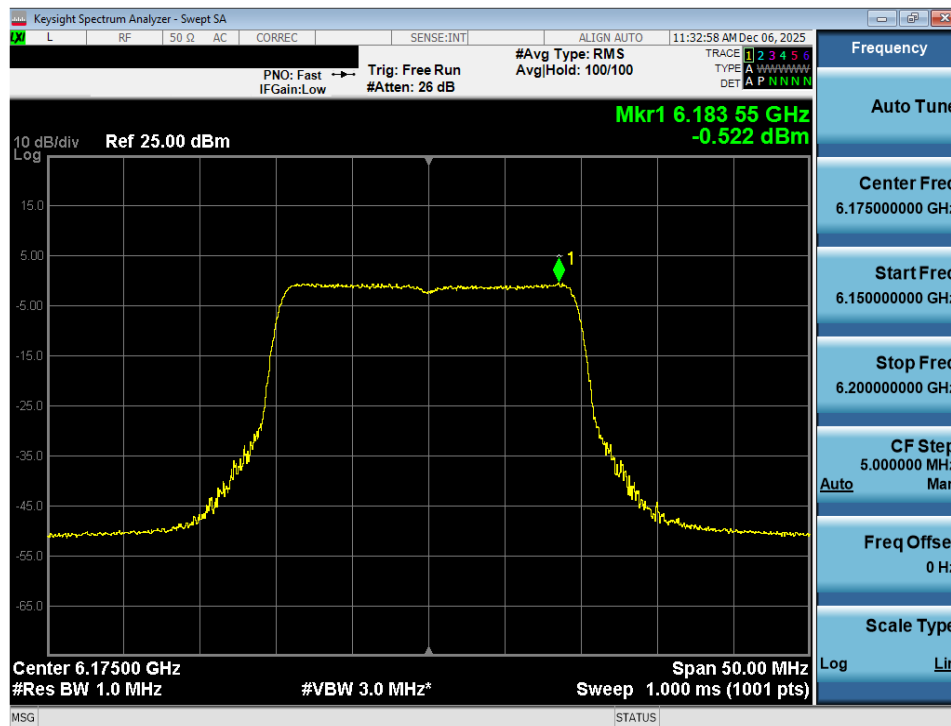
Plot 7-36. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 57 of 121

7.4.2 MIMO Antenna-2 Power Spectral Density Measurement - (UNII Band 5)

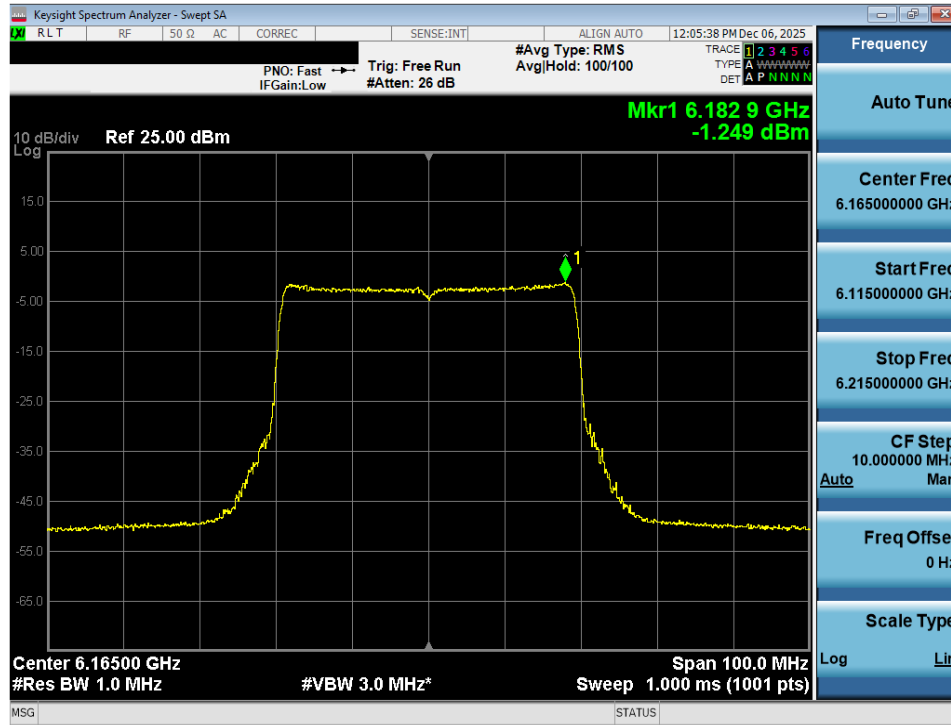


Plot 7-37. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - LPI

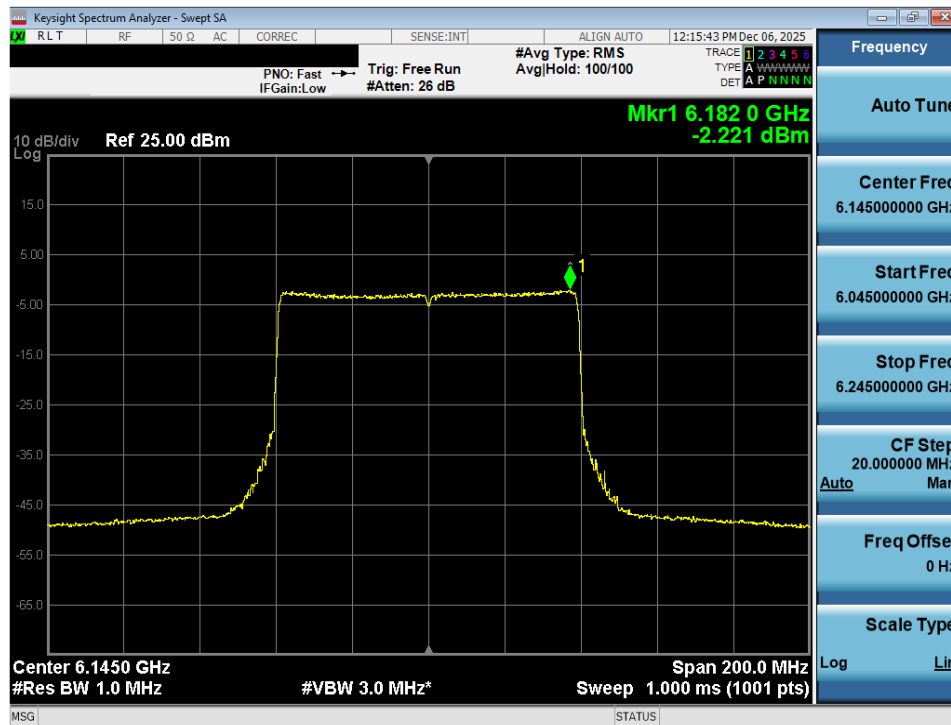


Plot 7-38. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 58 of 121

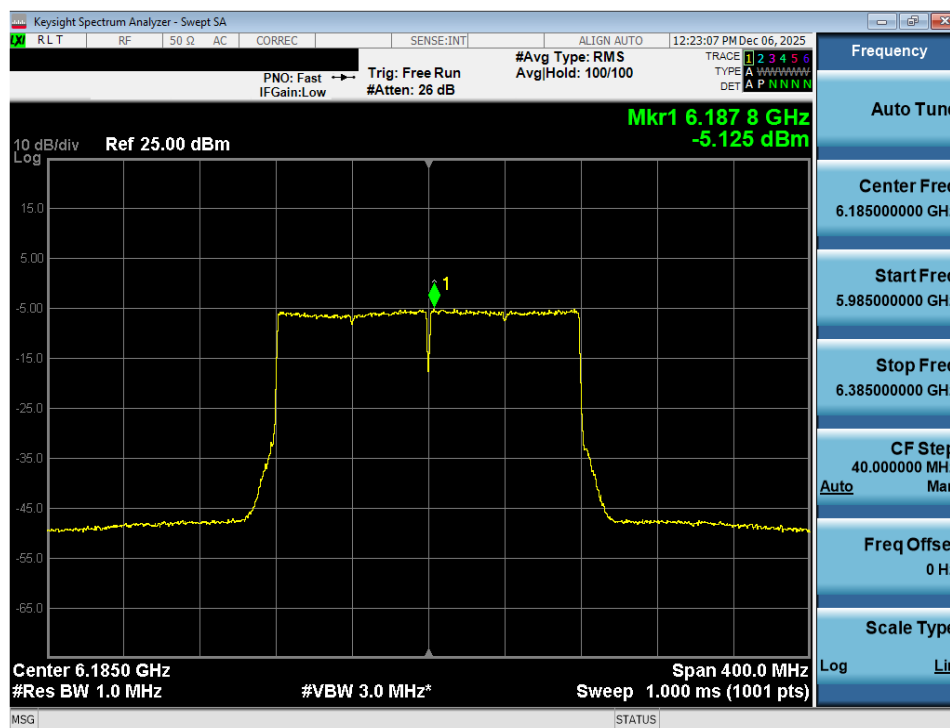


Plot 7-39. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - LPI

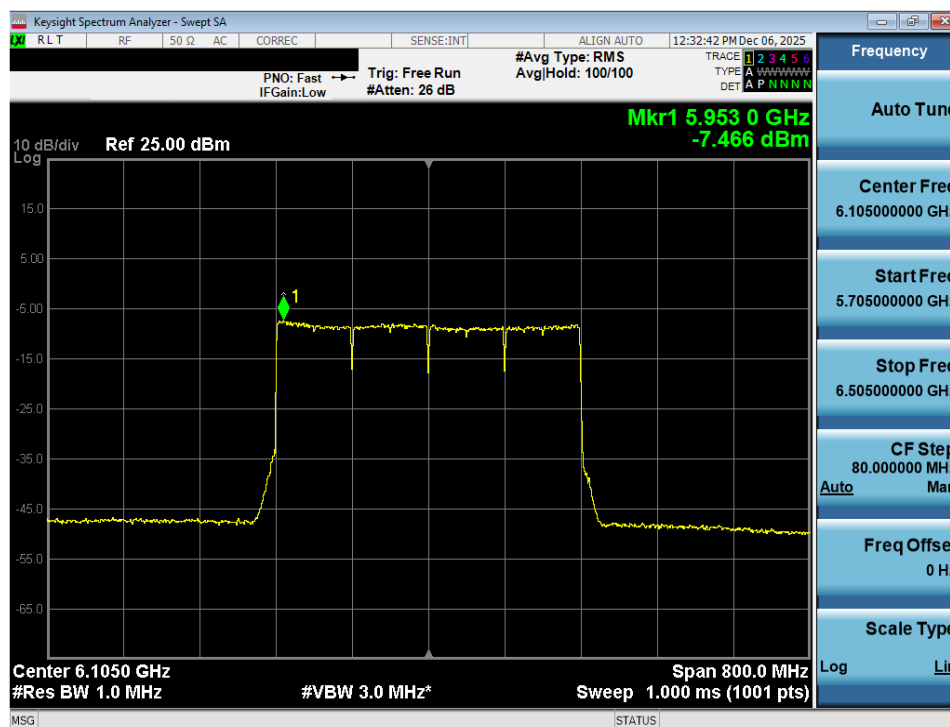


Plot 7-40. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 59 of 121

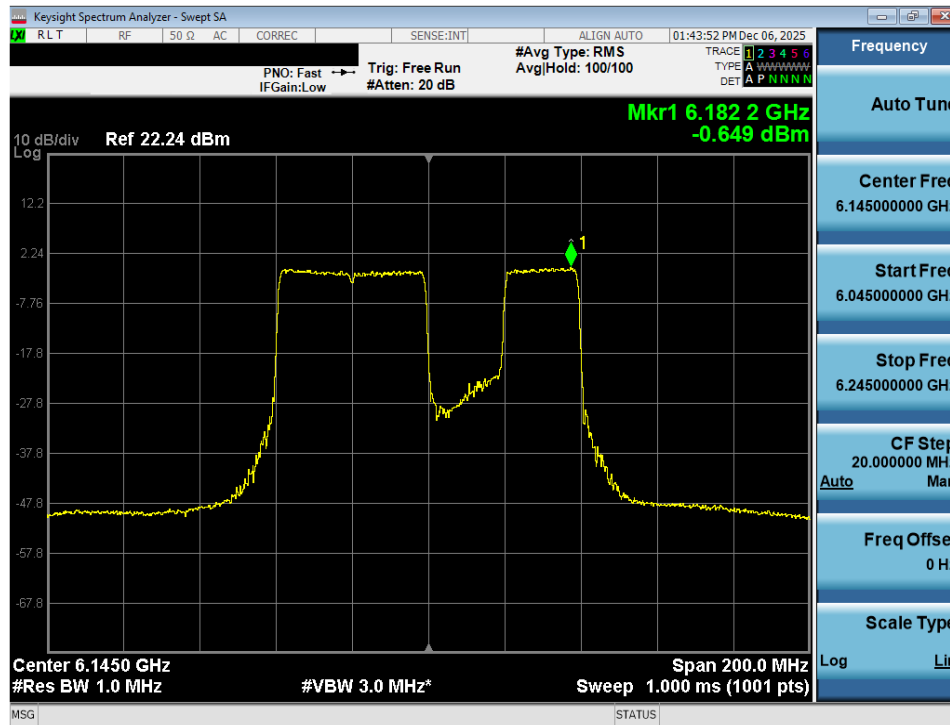


Plot 7-41. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI/SP

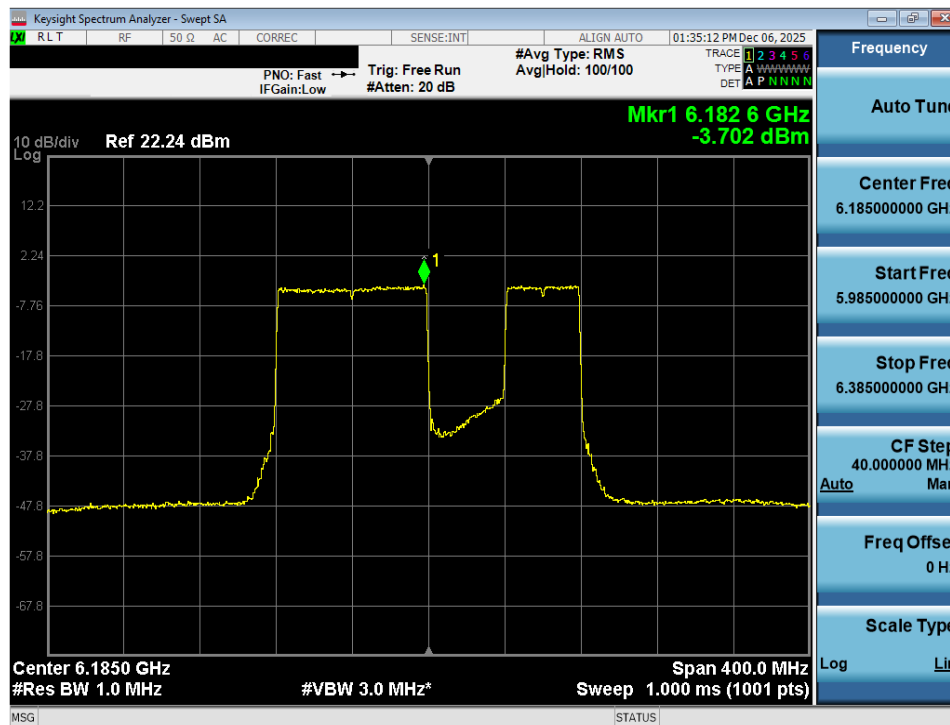


Plot 7-42. Power Spectral Density Plot MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 60 of 121



Plot 7-43. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11be (UNII Band 5) – Ch. 39) – 20MHz Punctured - LPI/SP



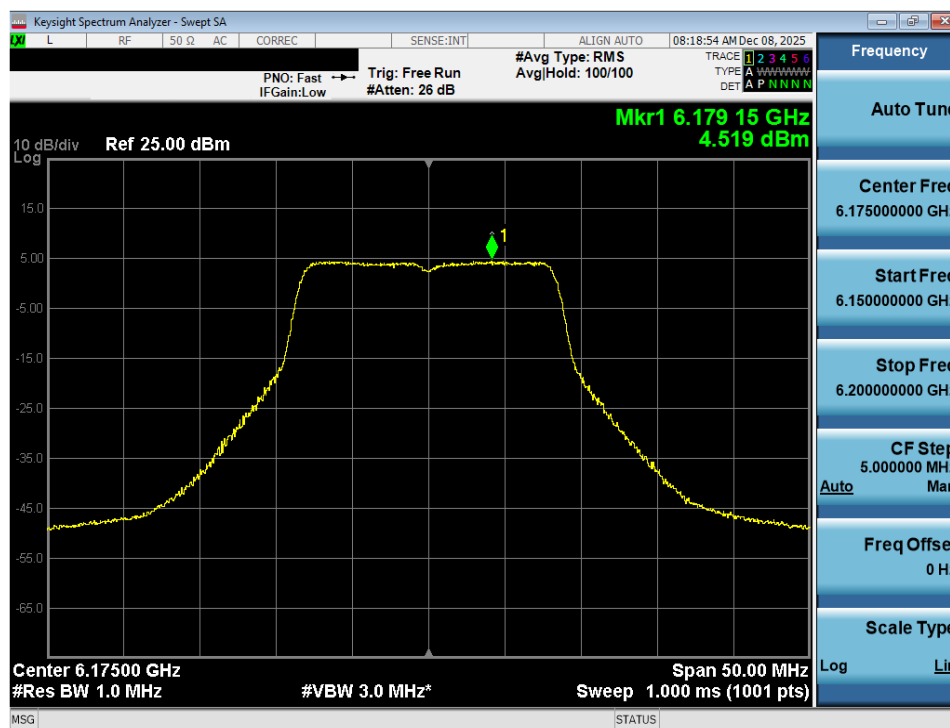
Plot 7-44. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11be (UNII Band 5) – Ch. 47) – 40MHz Punctured - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 61 of 121

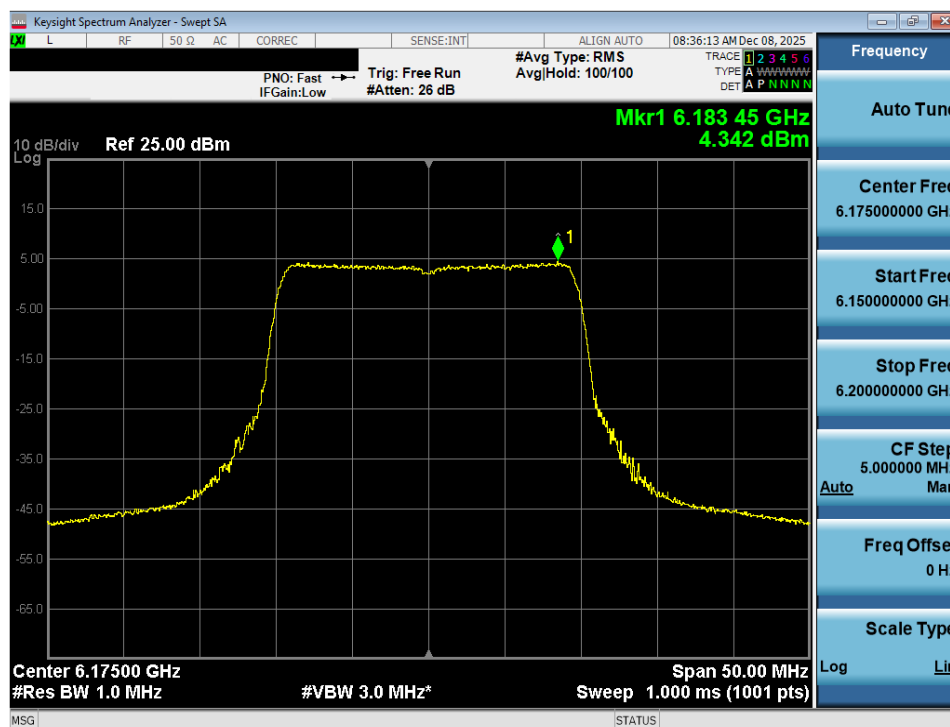


Plot 7-45. Power Spectral Density Plot MIMO ANT2 (320MHz 802.11be (UNII Band 5) – Ch. 31) – 120MHz Punctured – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 62 of 121

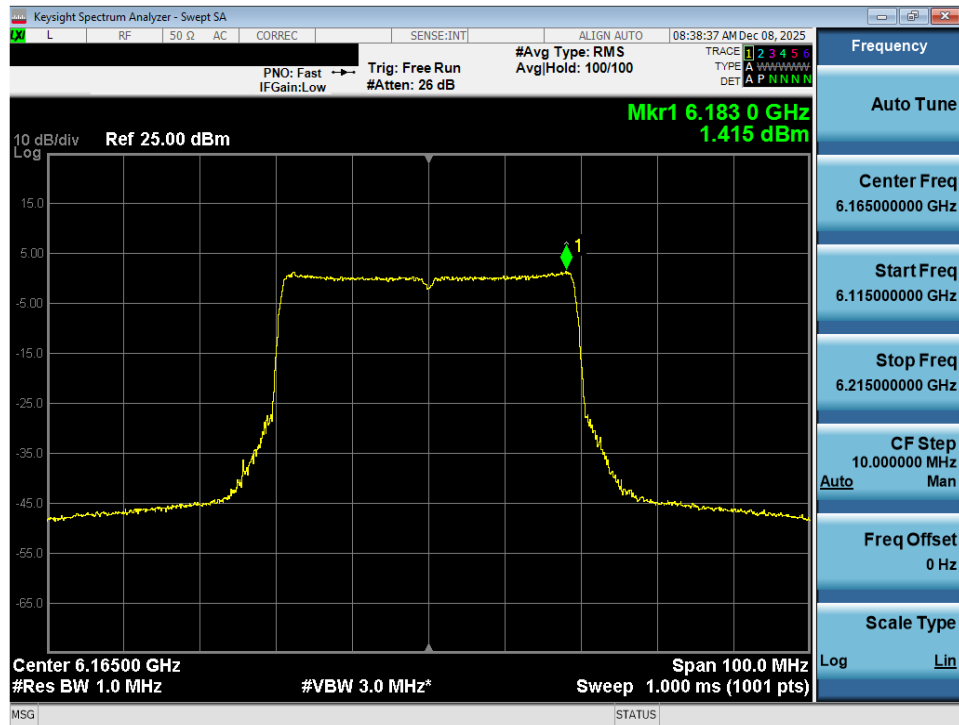


Plot 7-46. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP



Plot 7-47. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 63 of 121



Plot 7-48. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) – SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 64 of 121

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.

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

Sample MIMO Calculation:

At 5935MHz in 802.11a (20MHz BW) mode, the average conducted power spectral density was measured to be -1.42 dBm for Antenna-1 and -0.38 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(-1.42 \text{ dBm} + -0.38 \text{ dBm}) = (0.721 \text{ mW} + 0.916 \text{ mW}) = 1.637 \text{ mW} = 2.15 \text{ dBm}$$

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

At 5935 MHz in 802.11a (20MHz BW) mode, the average MIMO power density was calculated to be 2.15 dBm with directional gain of -4.47 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$2.15 \text{ dBm} + -4.47 \text{ dBi} = -2.32 \text{ dBm}$$

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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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 $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - 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:
 - i) 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.)
 - j) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - k) 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.

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 67 of 121

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	5935	2	a	PASS	PASS
	6175	45	a	PASS	PASS
	6415	93	a	PASS	PASS
	5935	2	be (20MHz)	PASS	PASS
	6175	45	be (20MHz)	PASS	PASS
	6415	93	be (20MHz)	PASS	PASS
	5965	3	be (40MHz)	PASS	PASS
	6165	43	be (40MHz)	PASS	PASS
	6405	91	be (40MHz)	PASS	PASS
	5985	7	be (80MHz)	PASS	PASS
	6145	39	be (80MHz)	PASS	PASS
	6385	87	be (80MHz)	PASS	PASS
	6025	15	be (160MHz)	PASS	PASS
	6185	47	be (160MHz)	PASS	PASS
	6345	79	be (160MHz)	PASS	PASS
	6105	31	be (320MHz)	PASS	PASS
Band 6	6265	63	be (320MHz)	PASS	PASS
	6435	97	a	PASS	PASS
	6475	105	a	PASS	PASS
	6515	113	a	PASS	PASS
	6435	97	be (20MHz)	PASS	PASS
	6475	105	be (20MHz)	PASS	PASS
	6515	113	be (20MHz)	PASS	PASS
	6445	99	be (40MHz)	PASS	PASS
	6485	107	be (40MHz)	PASS	PASS
	6525	115	be (40MHz)	PASS	PASS
Band 5/6/7	6465	103	be (80MHz)	PASS	PASS
	6505	111	be (160MHz)	PASS	PASS
Band 7	6425	95	be (320MHz)	PASS	PASS
	6535	117	a	PASS	PASS
	6695	149	a	PASS	PASS
	6875	185	a	PASS	PASS
	6535	117	be (20MHz)	PASS	PASS
	6695	149	be (20MHz)	PASS	PASS
	6875	185	be (20MHz)	PASS	PASS
	6565	123	be (40MHz)	PASS	PASS
	6725	155	be (40MHz)	PASS	PASS
	6885	179	be (40MHz)	PASS	PASS
	6545	119	be (80MHz)	PASS	PASS
	6705	151	be (80MHz)	PASS	PASS
	6865	183	be (80MHz)	PASS	PASS
	6665	143	be (160MHz)	PASS	PASS
Band 6/7	6825	175	be (160MHz)	PASS	PASS
	6665	127	be (320MHz)	PASS	PASS
Band 7/8	6745	159	be (320MHz)	PASS	PASS
Band 8	6895	189	a	PASS	PASS
	6995	209	a	PASS	PASS
	7115	233	a	PASS	PASS
	6895	189	be (20MHz)	PASS	PASS
	6995	209	be (20MHz)	PASS	PASS
	7115	233	be (20MHz)	PASS	PASS
	6925	187	be (40MHz)	PASS	PASS
	7005	211	be (40MHz)	PASS	PASS
	7085	227	be (40MHz)	PASS	PASS
	6945	199	be (80MHz)	PASS	PASS
Band 7/8	7025	215	be (80MHz)	PASS	PASS
	6985	207	be (160MHz)	PASS	PASS
Band 7/8	6905	191	be (320MHz)	PASS	PASS

Table 7-32. MIMO In-Band Emissions Results – LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	6145	39	be (80MHz)	20MHz	PASS	PASS
	6185	47	be (160MHz)	20MHz	PASS	PASS
	6185	47	be (160MHz)	40MHz	PASS	PASS
	6105	31	be (320MHz)	40MHz	PASS	PASS
	6105	31	be (320MHz)	80MHz	PASS	PASS
	6105	31	be (320MHz)	120MHz	PASS	PASS
Band 6	6465	103	be (80MHz)	20MHz	PASS	PASS
	6505	111	be (160MHz)	20MHz	PASS	PASS
	6505	111	be (160MHz)	40MHz	PASS	PASS
Band 5/6/7	6425	95	be (320MHz)	40MHz	PASS	PASS
	6425	95	be (320MHz)	80MHz	PASS	PASS
	6425	95	be (320MHz)	120MHz	PASS	PASS
Band 7	6705	151	be (80MHz)	20MHz	PASS	PASS
	6665	143	be (160MHz)	20MHz	PASS	PASS
	6665	143	be (160MHz)	40MHz	PASS	PASS
Band 7/8	6745	159	be (320MHz)	40MHz	PASS	PASS
	6745	159	be (320MHz)	80MHz	PASS	PASS
	6745	159	be (320MHz)	120MHz	PASS	PASS
Band 8	7025	215	be (80MHz)	20MHz	PASS	PASS
	6985	207	be (160MHz)	20MHz	PASS	PASS
	6985	207	be (160MHz)	40MHz	PASS	PASS
Band 7/8	6905	191	be (320MHz)	40MHz	PASS	PASS
	6905	191	be (320MHz)	80MHz	PASS	PASS
	6905	191	be (320MHz)	120MHz	PASS	PASS

Table 7-33. MIMO In-Band Emissions Results – Punctured Cases – LPI/SP

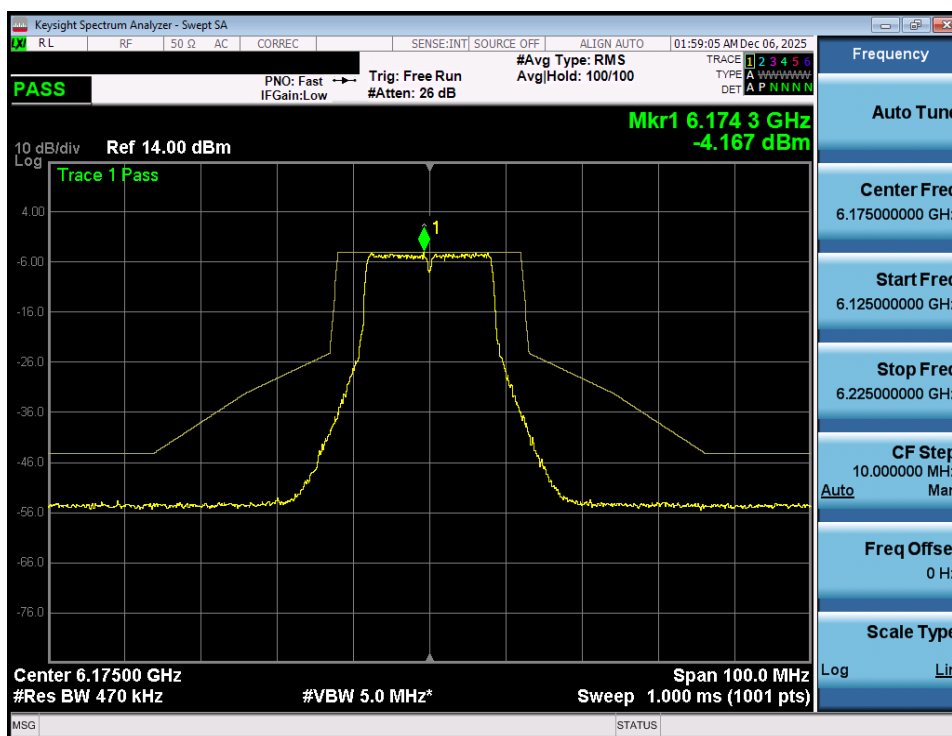
FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 69 of 121

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	5935	2	a	PASS	PASS
	6175	45	a	PASS	PASS
	6415	93	a	PASS	PASS
	5935	2	be (20MHz)	PASS	PASS
	6175	45	be (20MHz)	PASS	PASS
	6415	93	be (20MHz)	PASS	PASS
	5965	3	be (40MHz)	PASS	PASS
	6165	43	be (40MHz)	PASS	PASS
	6405	91	be (40MHz)	PASS	PASS
Band 7	6535	117	a	PASS	PASS
	6695	149	a	PASS	PASS
	6875	185	a	PASS	PASS
	6535	117	be (20MHz)	PASS	PASS
	6695	149	be (20MHz)	PASS	PASS
	6875	185	be (20MHz)	PASS	PASS
	6565	123	be (40MHz)	PASS	PASS
	6725	155	be (40MHz)	PASS	PASS
	6885	179	be (40MHz)	PASS	PASS

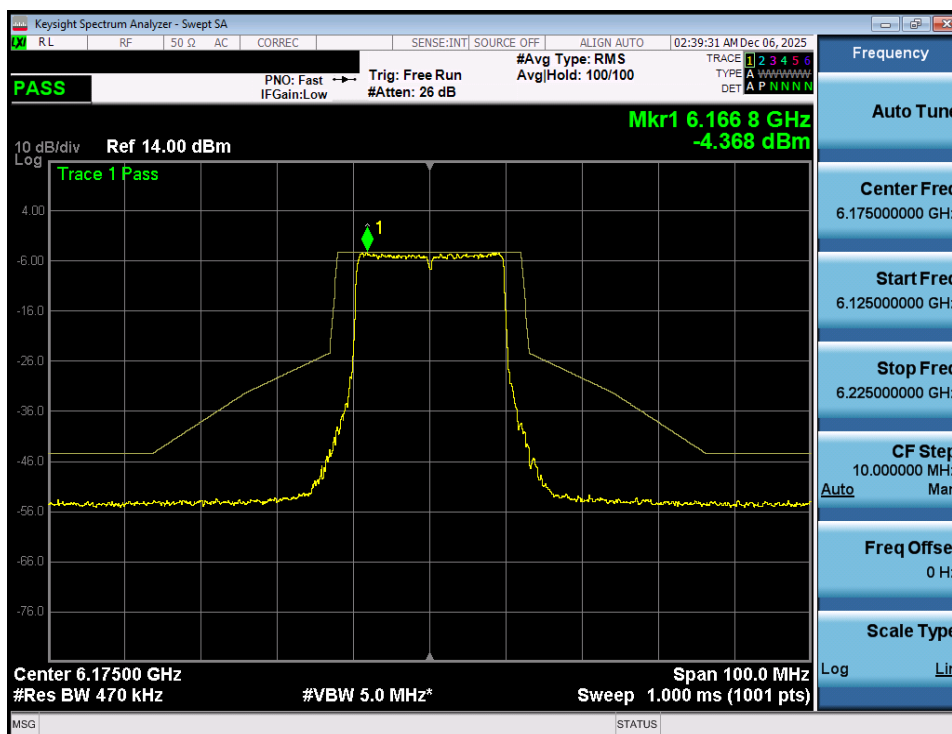
Table 7-34. MIMO In-Band Emissions Results – SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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7.5.1 MIMO Antenna-1 In-Band Emission Plot Measurement - (UNII Band 5)

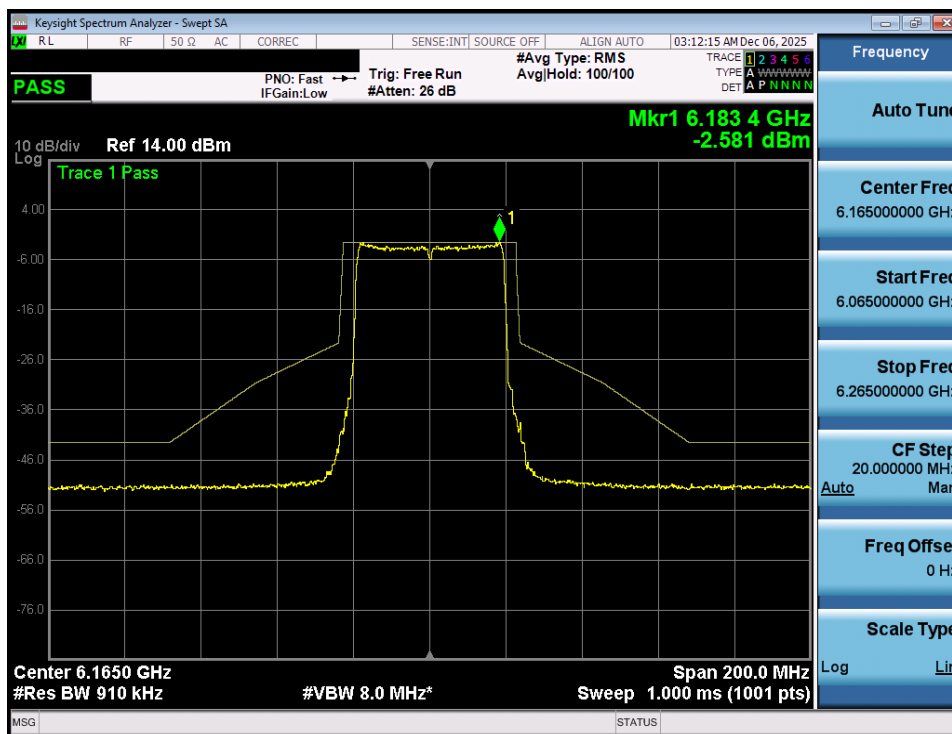


Plot 7-49. In Band Emissions Plot MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45) - LPI

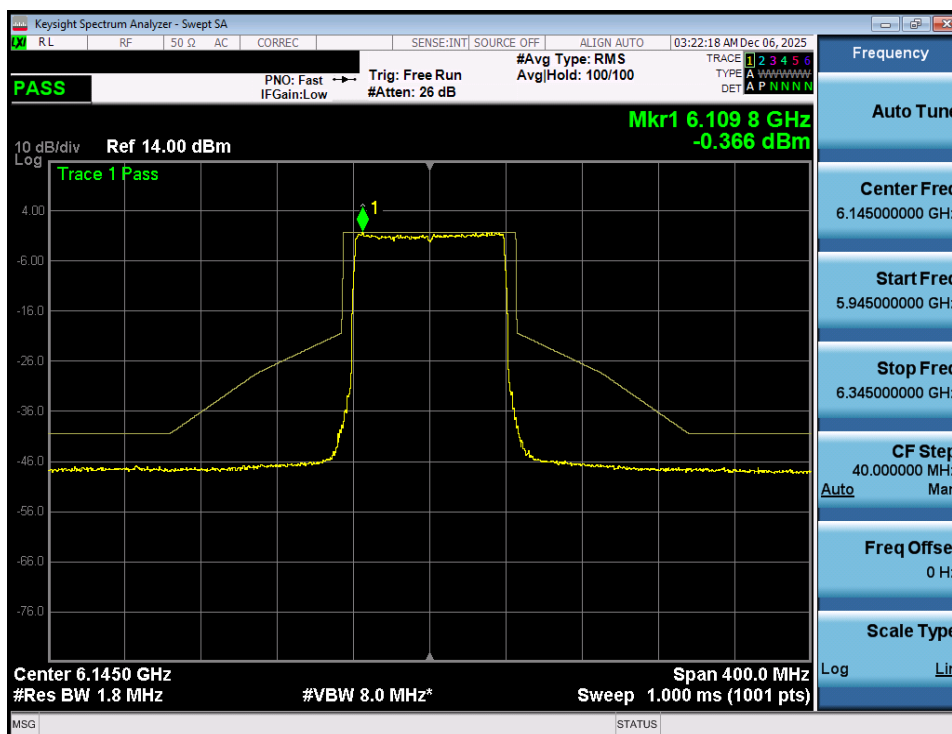


Plot 7-50. In Band Emissions Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 71 of 121

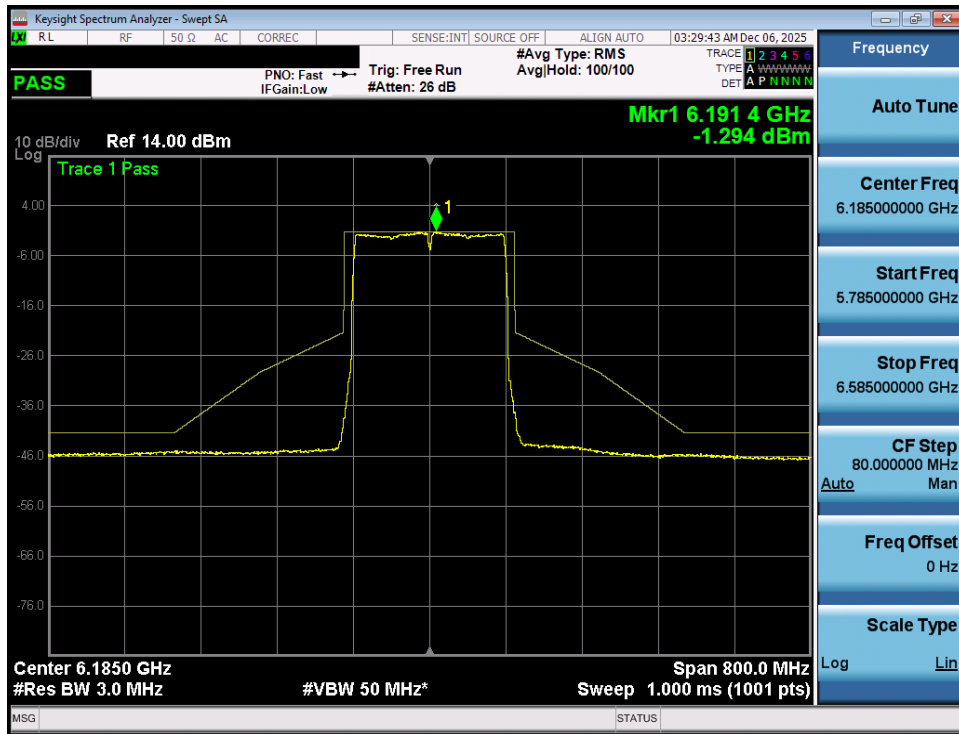


Plot 7-51. In Band Emissions Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - LPI

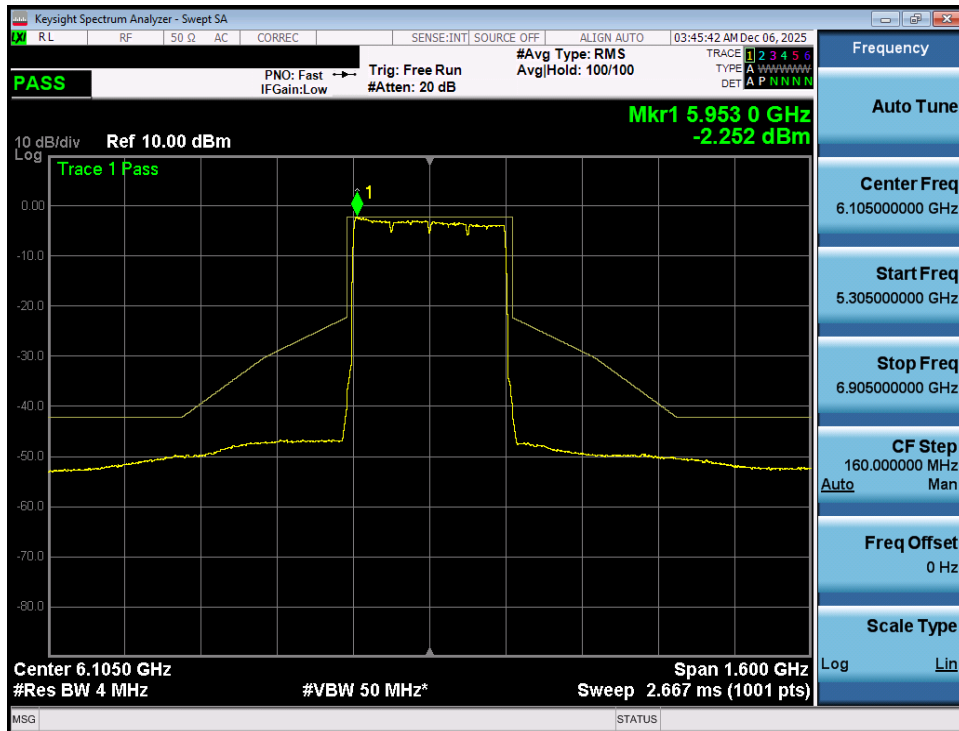


Plot 7-52. In Band Emissions Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 72 of 121

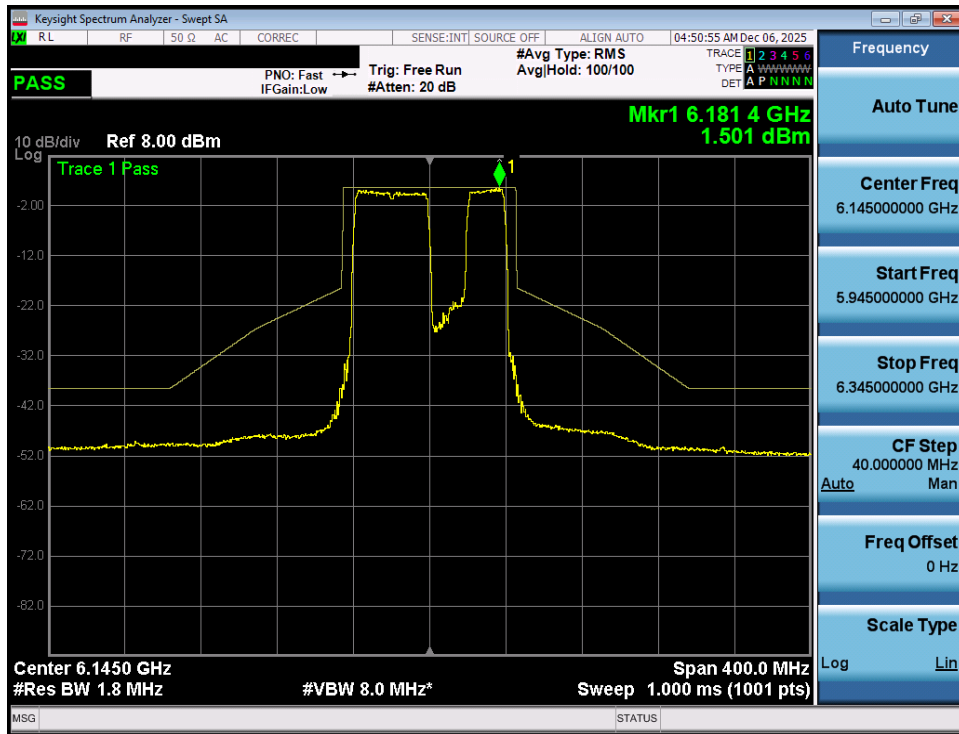


Plot 7-53. In Band Emissions Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI/SP

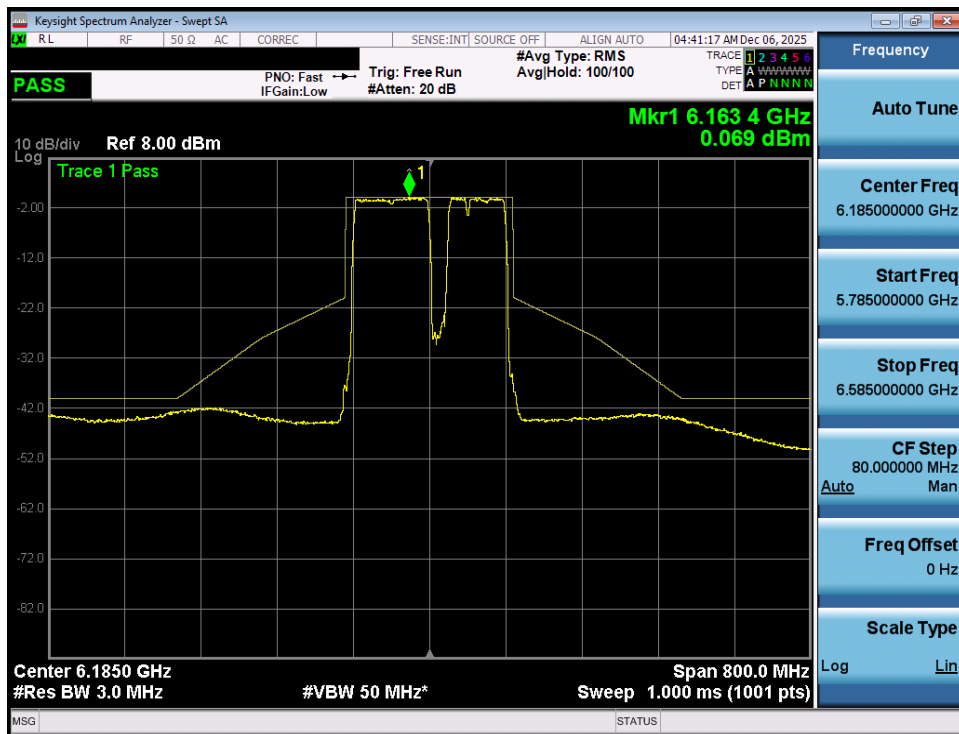


Plot 7-54. In Band Emissions Plot MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 73 of 121

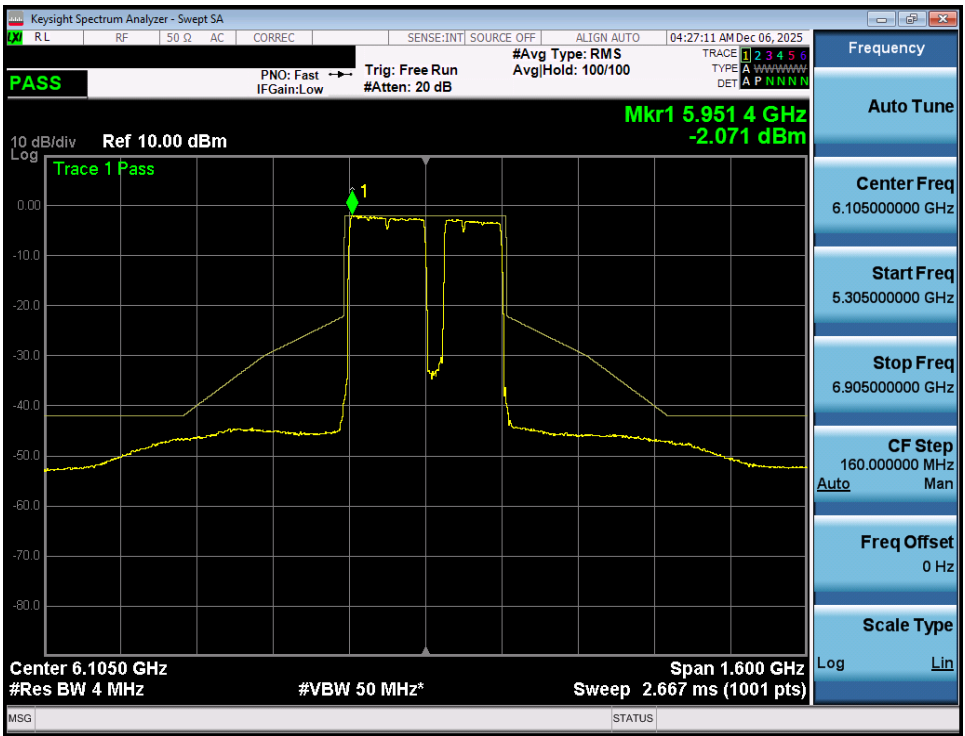


Plot 7-55. In Band Emissions Plot MIMO ANT1 (80MHz 802.11be (UNII Band 5) – Ch. 39) – 20MHz Punctured - LPI/SP



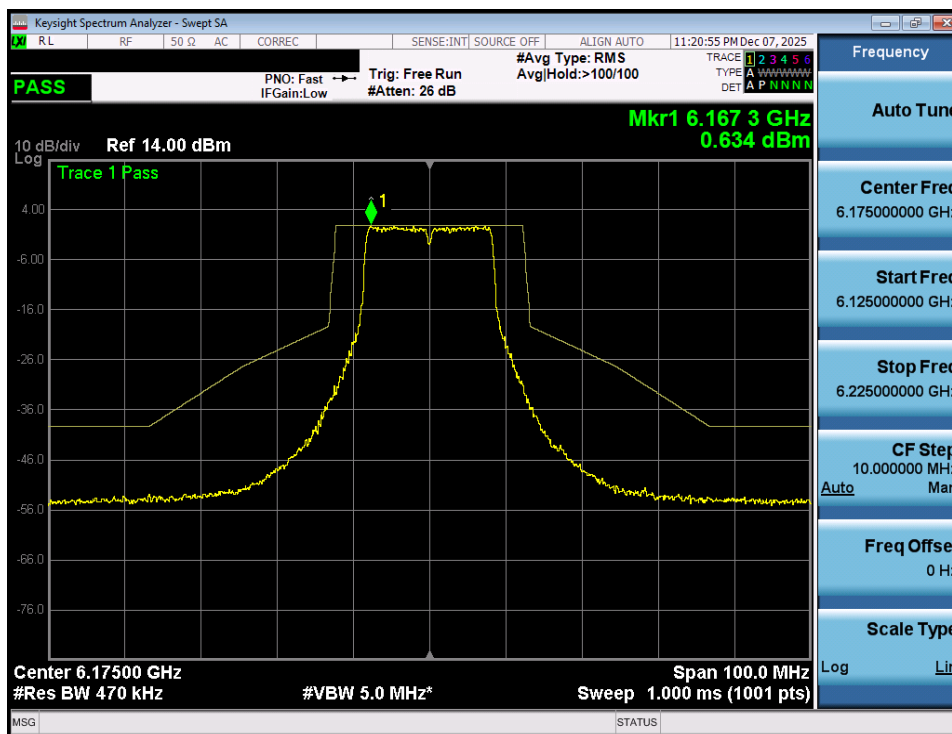
Plot 7-56. In Band Emissions Plot MIMO ANT1 (160MHz 802.11be (UNII Band 5) – Ch. 47) – 20MHz Punctured - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 74 of 121

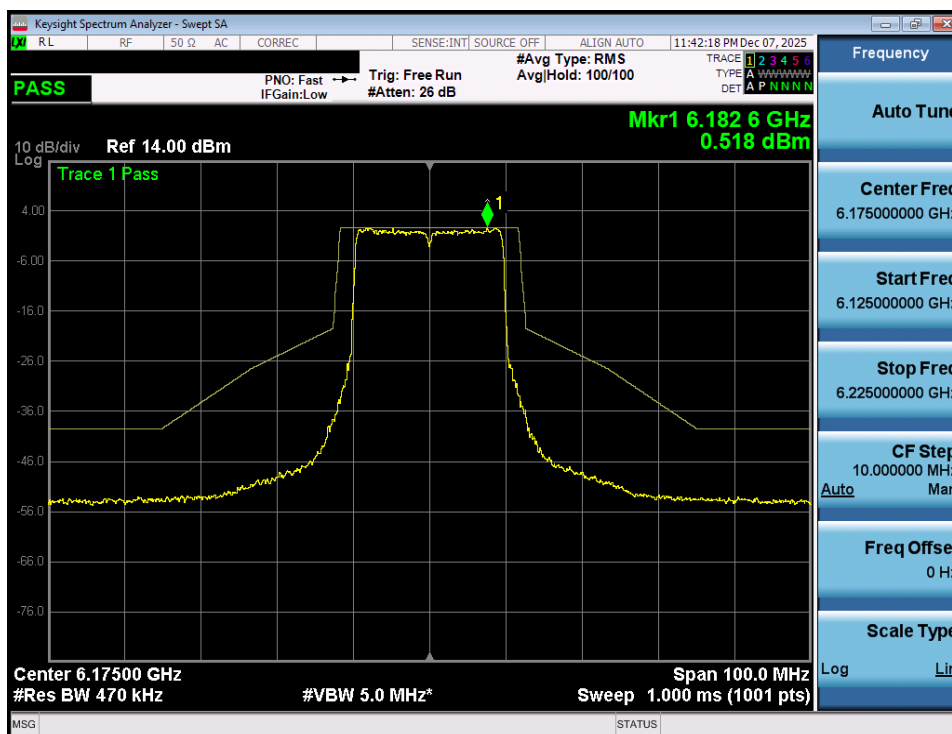


Plot 7-57. In Band Emissions Plot MIMO ANT1 (320MHz 802.11be (UNII Band 5) – Ch. 31) – 40MHz Punctured – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 75 of 121

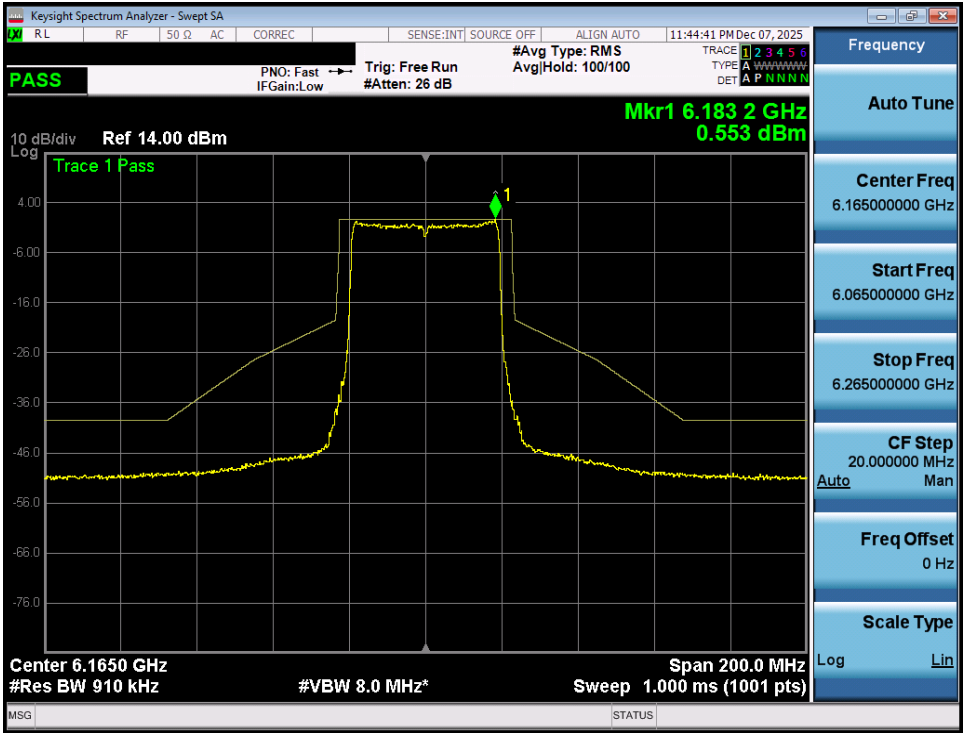


Plot 7-58. In Band Emissions Plot MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP



Plot 7-59. In Band Emissions Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

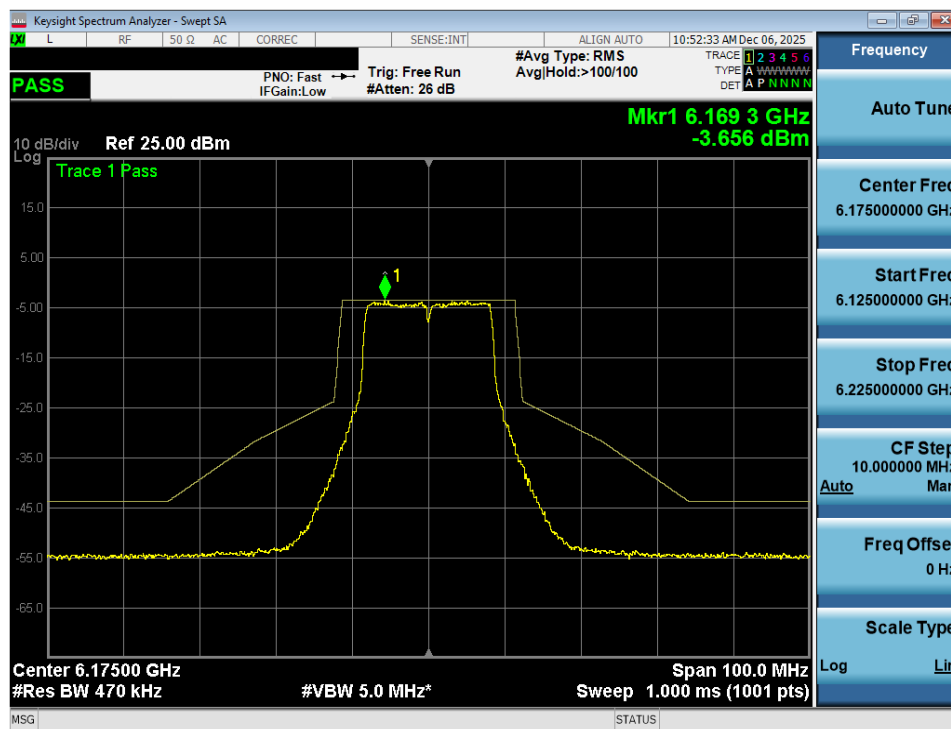
FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 76 of 121



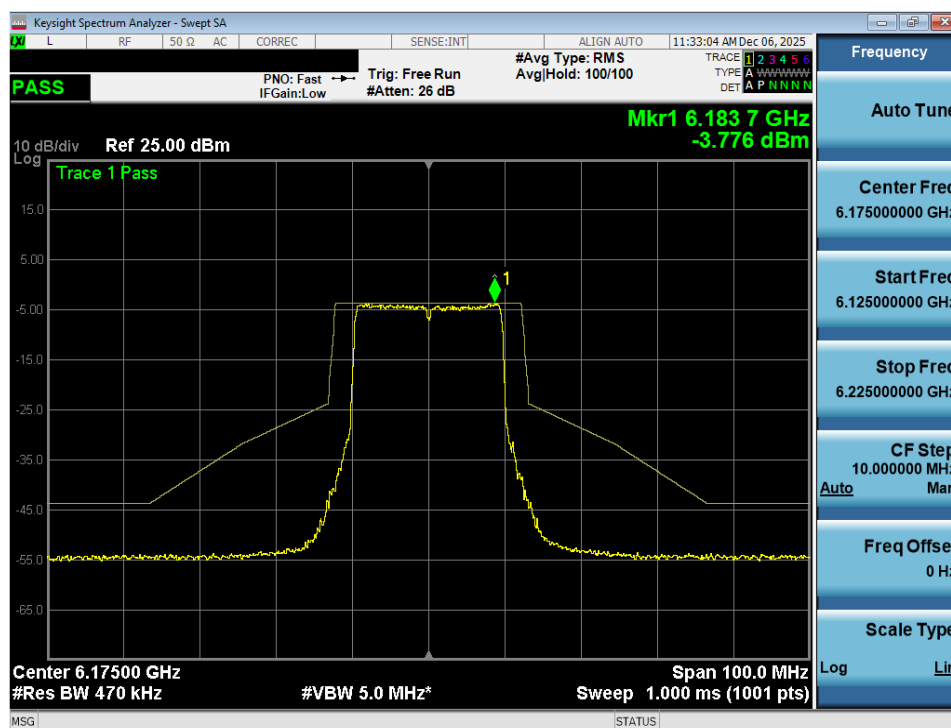
Plot 7-60. In Band Emissions Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 77 of 121

7.5.2 MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 5)

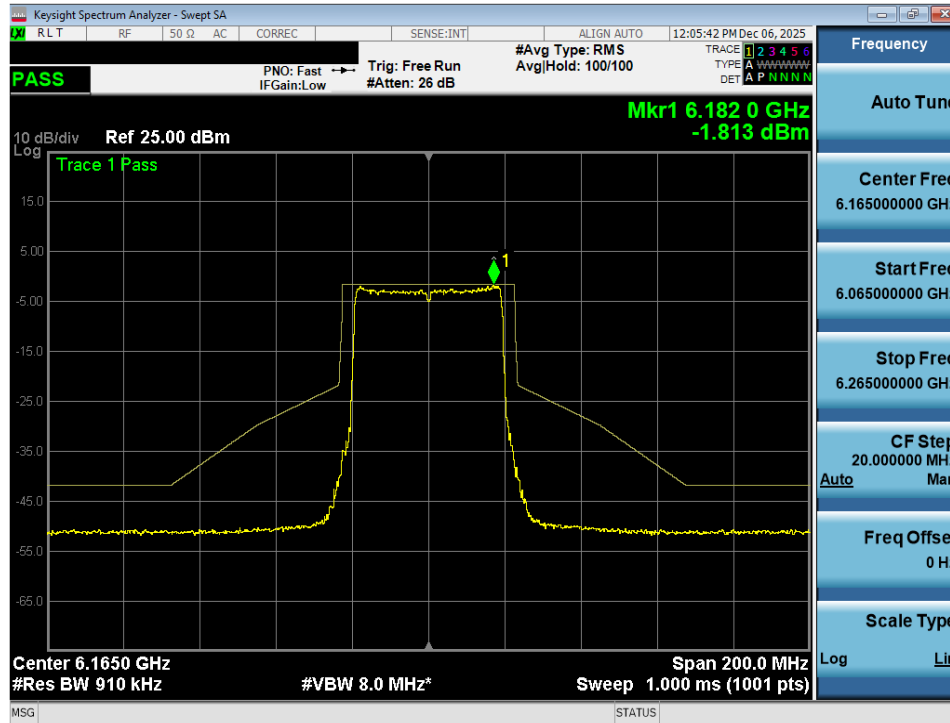


Plot 7-61. In Band Emissions Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - LPI

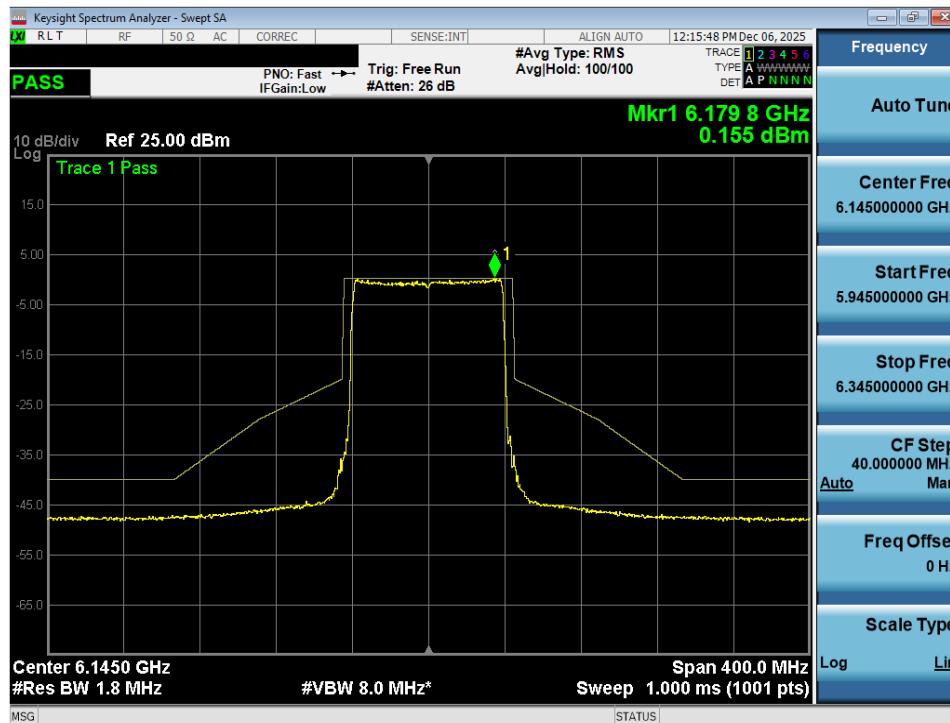


Plot 7-62. In Band Emissions Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 78 of 121

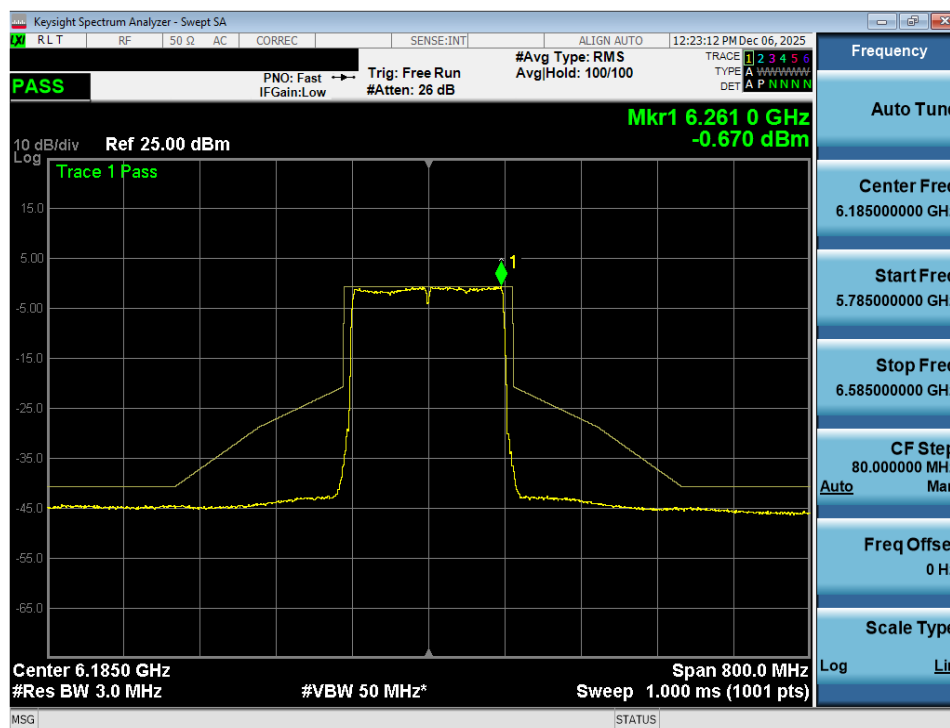


Plot 7-63. In Band Emissions Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - LPI

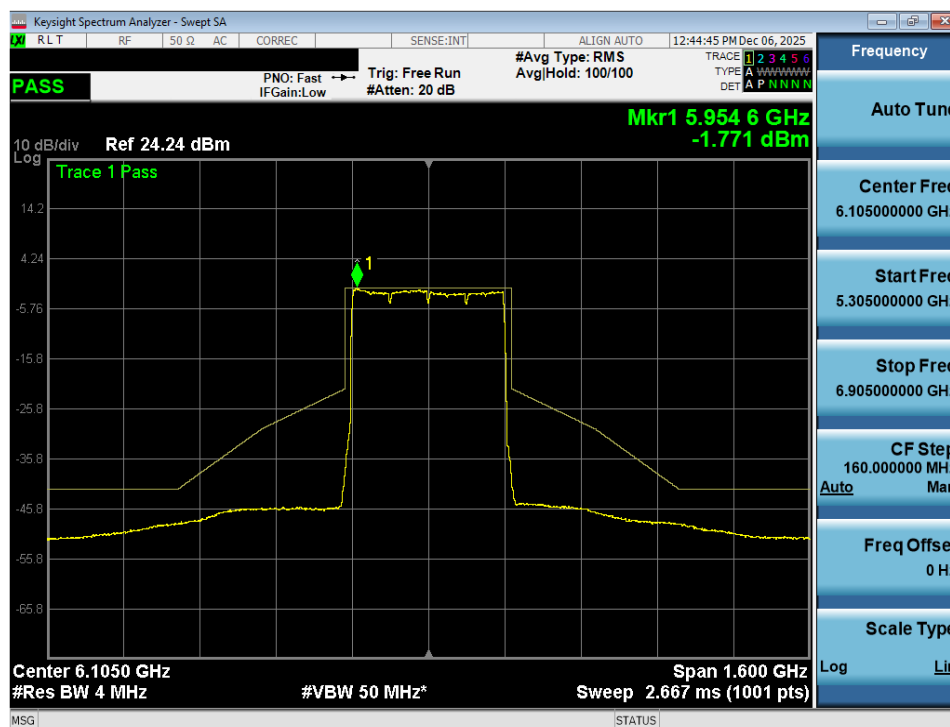


Plot 7-64. In Band Emissions Plot MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 79 of 121

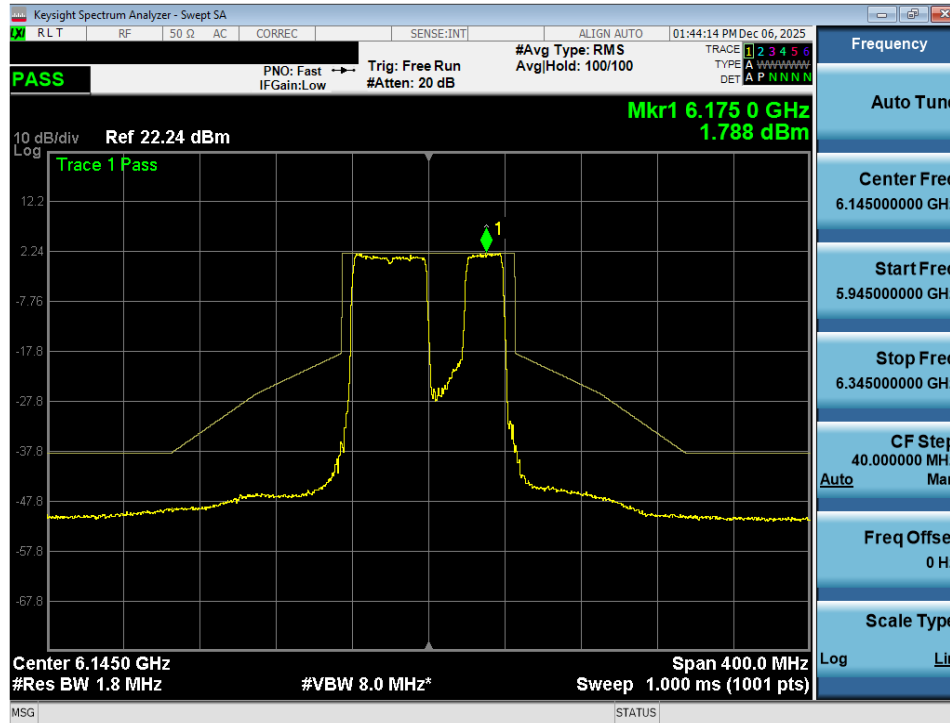


Plot 7-65. In Band Emissions Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI/SP

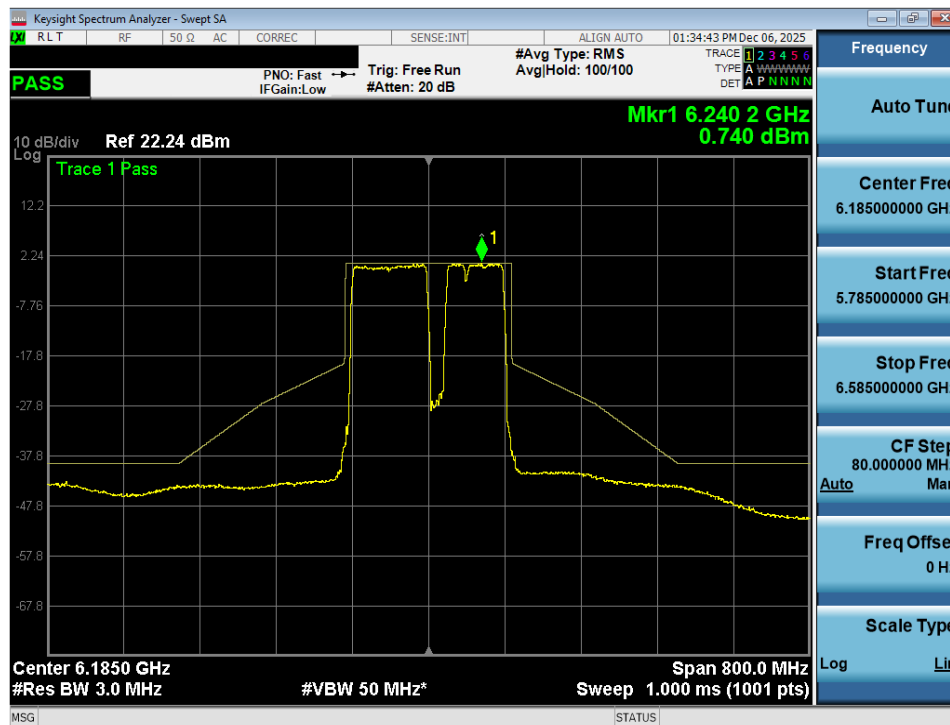


Plot 7-66. In Band Emissions Plot MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 80 of 121

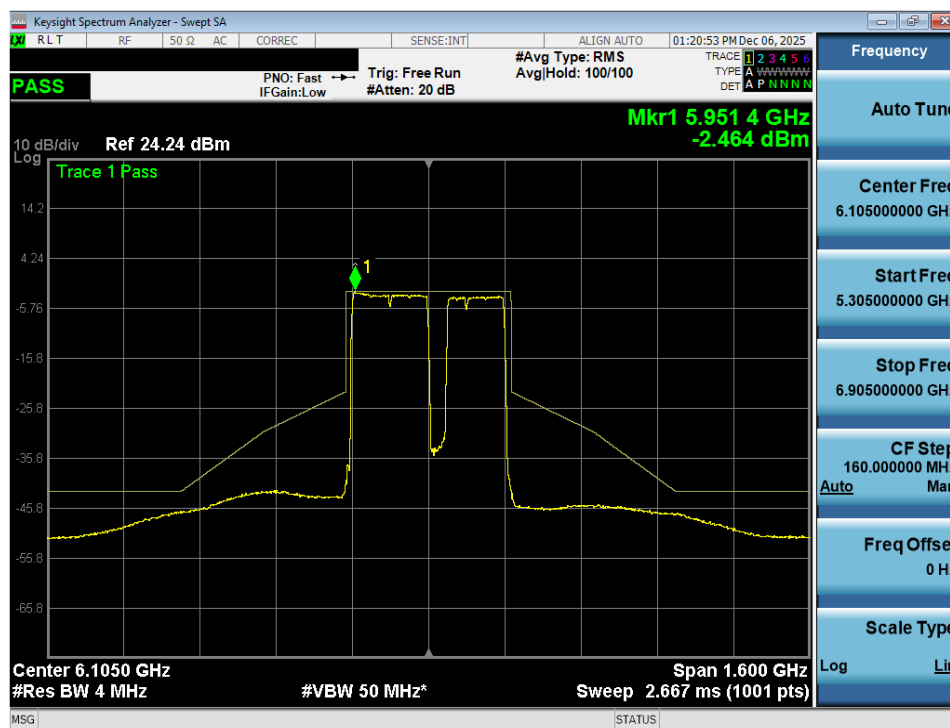


Plot 7-67. In Band Emissions Plot MIMO ANT2 (80MHz 802.11be (UNII Band 5) – Ch. 39) – 20MHz Punctured - LPI/SP



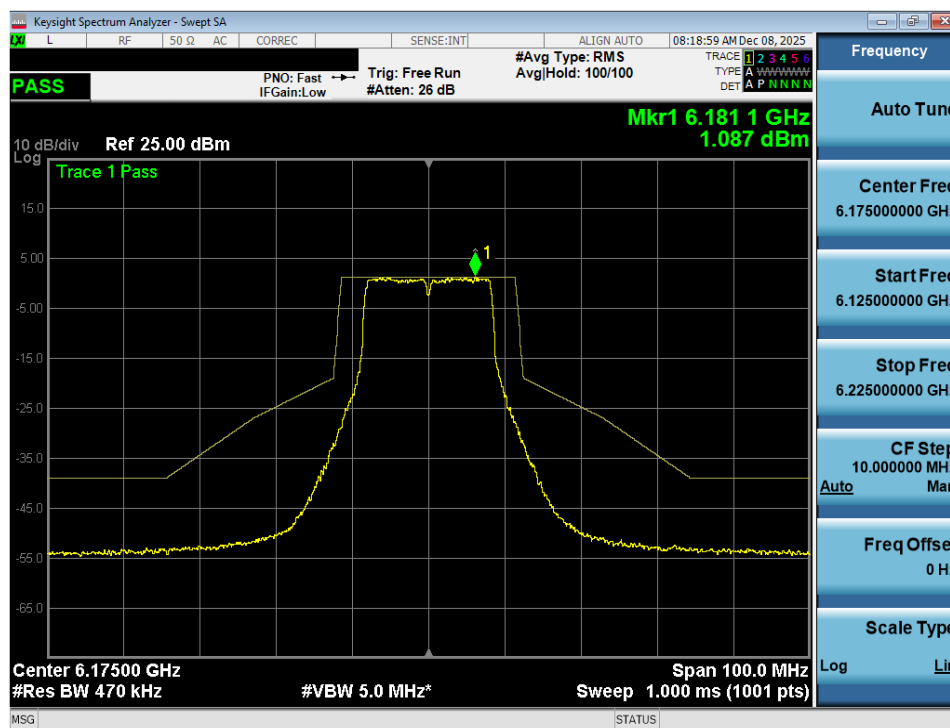
Plot 7-68. In Band Emissions Plot MIMO ANT2 (160MHz 802.11be (UNII Band 5) – Ch. 47) – 20MHz Punctured - LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 81 of 121

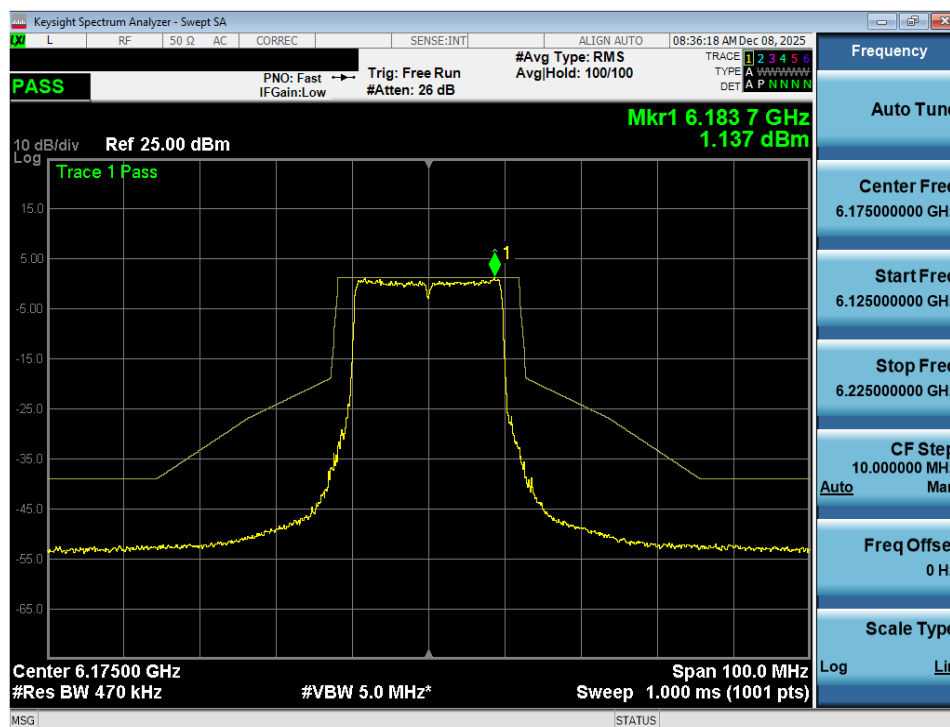


Plot 7-69. In Band Emissions Plot MIMO ANT2 (320MHz 802.11be (UNII Band 5) – Ch. 31) – 40MHz Punctured – LPI/SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 82 of 121

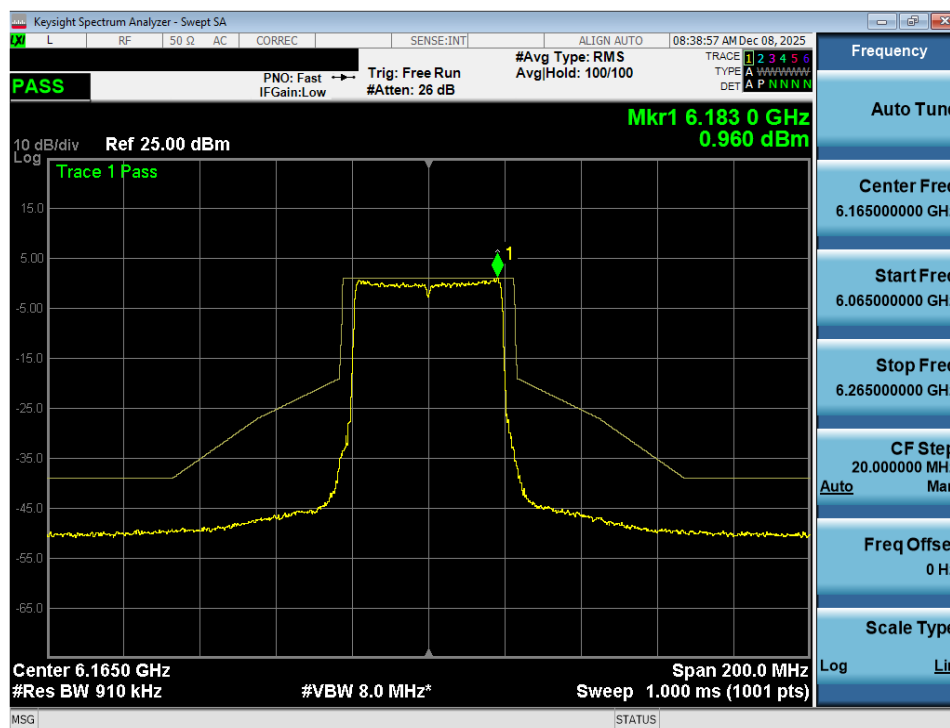


Plot 7-70. In Band Emissions Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP



Plot 7-71. In Band Emissions Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 83 of 121



Plot 7-72. In Band Emissions Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 84 of 121

7.6 Dual Client Device Additional Requirement (AFC Protocol)

15.407

Test Overview and Limit

Dual Client Device additional requirements (AFC Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a standard power access point to show compliance with 15.407.

The maximum power limits shall remain at least 6dB below the power levels authorized for the associated standard-power access point.

The EUT must distinguish its associated access point as standard or low power and control its power levels accordingly.

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

KDB 987594 D02 v03

Test Setup/Method

The EUT was connected via an RF cable to a power meter and a callbox acting as a 6GHz standard power access point. For LPI measurement, the device is connected to a power meter via an RF cable and to an LPI access point wirelessly.

1. Standard Power callbox:
 - a. Enable 6GHz standard power access point
 - b. Send command to set power limit
 - c. Connect EUT to callbox AP (CMX500) and generate traffic via iperf.
 - d. Measure output power at conducted ports of client EUT
2. Low power indoor access point:
 - a. Connect EUT to LPI AP network (TPLink Archer BE900) and generate traffic via iPerf.
 - b. Measure output power at conducted ports of client EUT

Test Notes

- The EUT is a Dual Client Device.
- The test was executed with the CMX SP AP authorized to transmit up to 9.00dBm, 22.5dBm, and 36dBm on Ch. 53 (6215MHz). The LPI AP was operating on channel 53.
- The lowest 9.00dBm power level is based on the EIRP resulting from the conducted power targets specified in the manufacturer's "WLAN and Bluetooth Maximum Power Document".
- For LPI power verification, the EUT was connected via a conducted connection to the power meter. Simultaneously, the EUT was able to see and establish a radiated connection with the low power indoor access point.
- The CMX "Max Tx Power" values displayed below are 2 times the set max EIRP level in dBm: Max Tx Power = (72) = 36dBm

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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Test Setup Diagram

The testing was set up as shown in the diagram below:

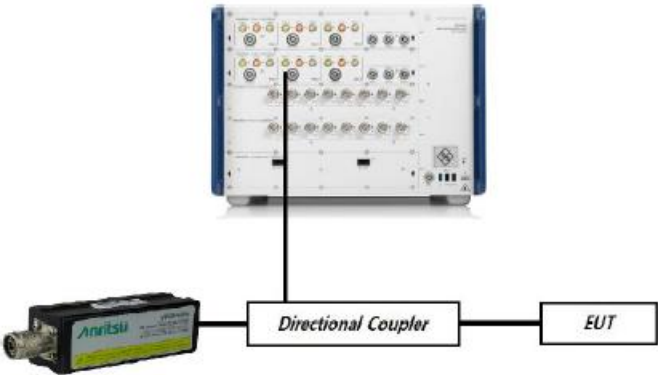


Figure 7-5. Test Setup Diagram for Power Reduction Verification Test

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 86 of 121

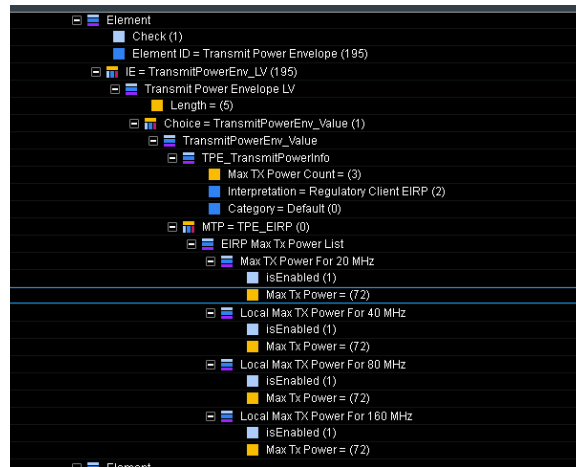


Figure 7-6. Callbox Power Authorization – 36.00dBm



Figure 7-7. Callbox Power Authorization – 22.50dBm

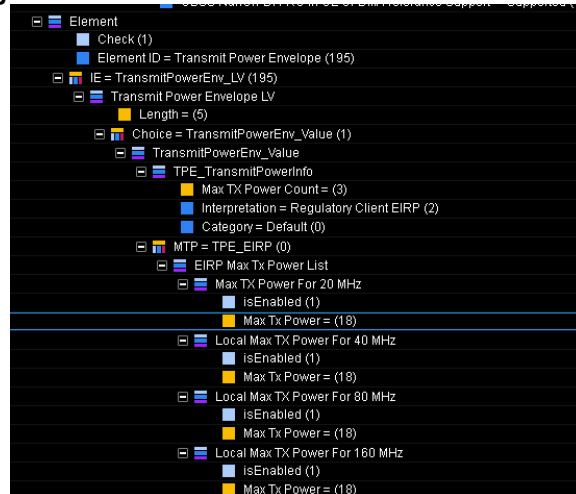


Figure 7-8. Callbox Power Authorization – 9.00dBm

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 87 of 121

AFC Authorized EIRP for AP [dBm]	Dual Client ANT1 Conducted Power [dBm]	Antenna Gain [dBi]	Dual Client EIRP [dBm]	Client EIRP Limit [dBm]	Margin [dB]
36.00	13.50	-7.42	6.08	30.00	-23.92
22.50	13.48	-7.42	6.06	16.50	-10.44
9.00	6.64	-7.42	-0.78	3.00	-3.78

Table 7-35. Dual Client Output Power Results – Ch.53

AP	AFC Authorized EIRP for AP [dBm]	Dual Client ANT1 Conducted Power [dBm]	Antenna Gain [dBi]	Dual Client MIMO EIRP [dBm]	Client EIRP Limit [dBm]	Margin [dB]
SP	36.00	13.50	-7.42	6.08	30.00	-23.92
LPI		8.82	-7.42	1.40	24.00	-22.60

Table 7-36. Power Adjustment based on Associated AP Results – Ch.53

Sample e.i.r.p. Calculation:

At 6215MHz in 802.11ax (20MHz BW) mode, the ANT1 conducted power was measured to be 13.50 dBm with antenna gain of -7.42 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$13.50 \text{ dBm} + -7.42 \text{ dBi} = 6.08 \text{ dBm}$$

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7.7 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, 802.11be (20/40/80/160/320MHz), 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 in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27dBm/MHz (68.2dBuV/m at a 3m distance). Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

Frequency	Field Strength [$\mu\text{V/m}$]	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 7-37. 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 $\geq 2 \times \text{span}/\text{RBW}$)
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.

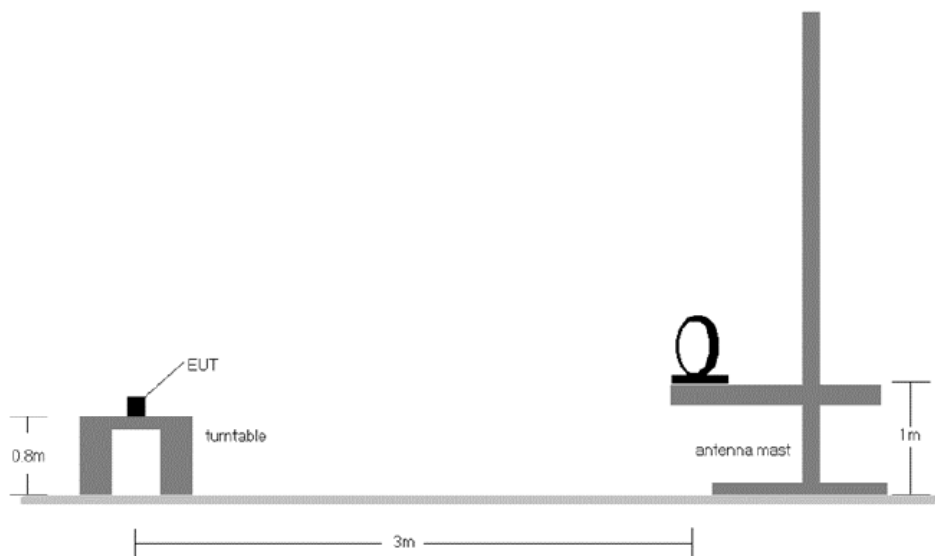


Figure 7-9. Radiated Test Setup < 30MHz

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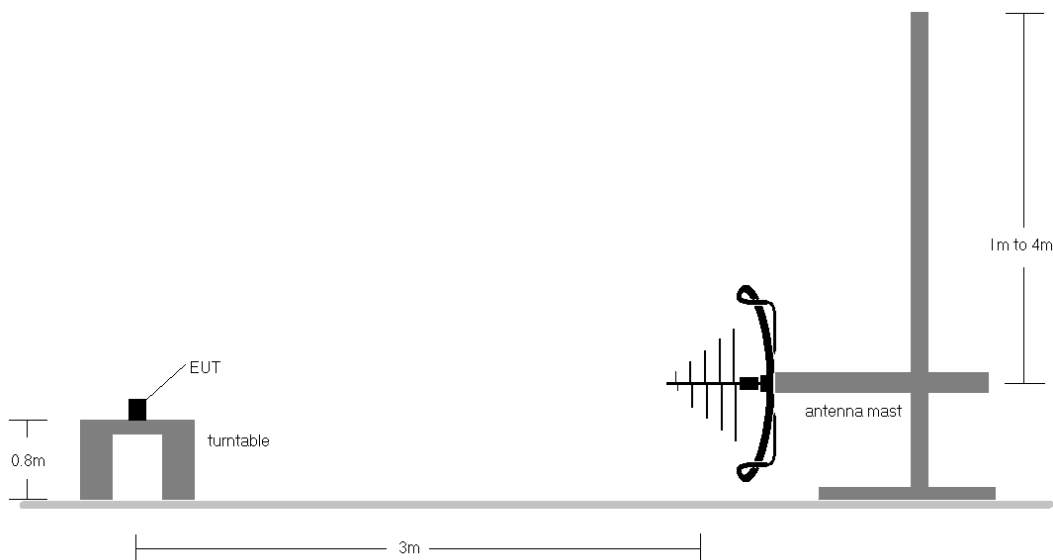


Figure 7-10. Radiated Test Setup < 1GHz

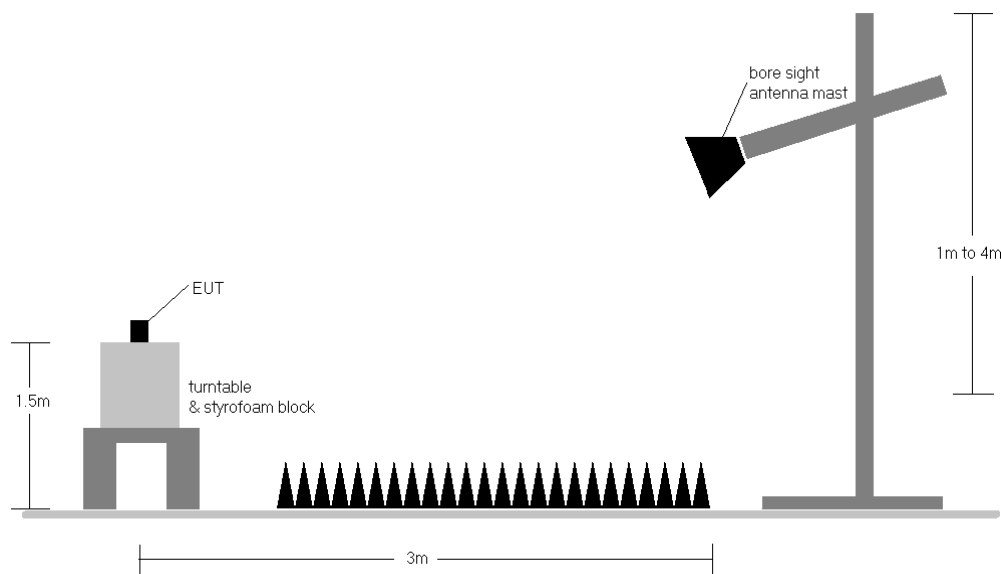


Figure 7-11. Radiated Test Setup > 1GHz

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limits specified 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 dB μ V/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 68.2dB μ V/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 [68.2dB μ V/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. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
9. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.

Sample Calculations

Determining Spurious Emissions Levels

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

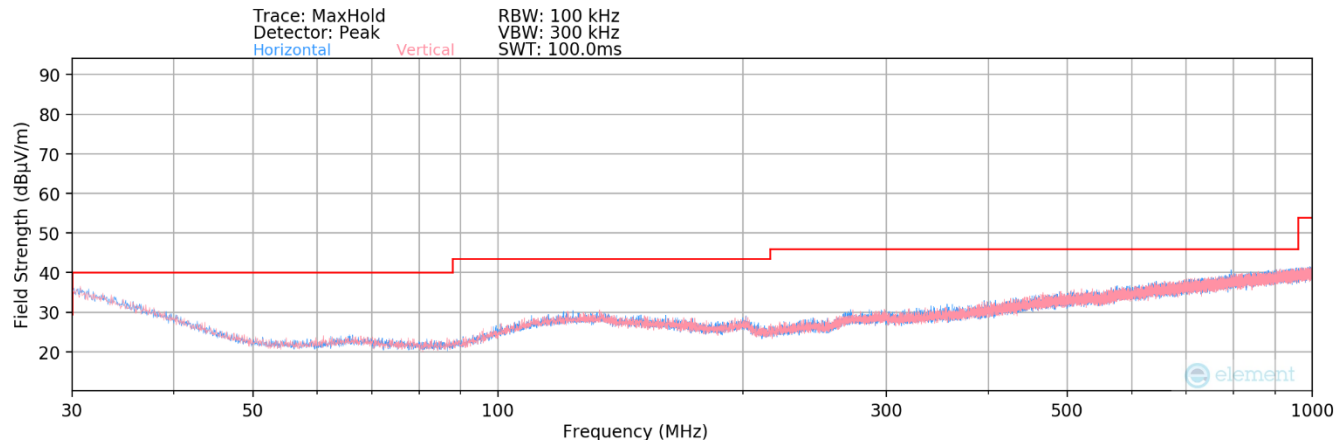
Radiated Band Edge Measurement Offset

The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:

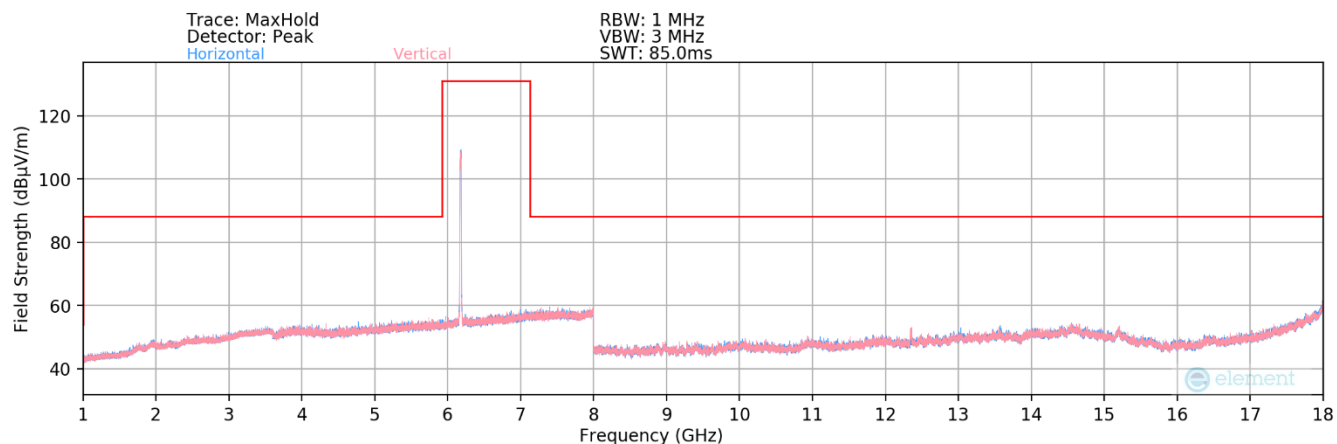
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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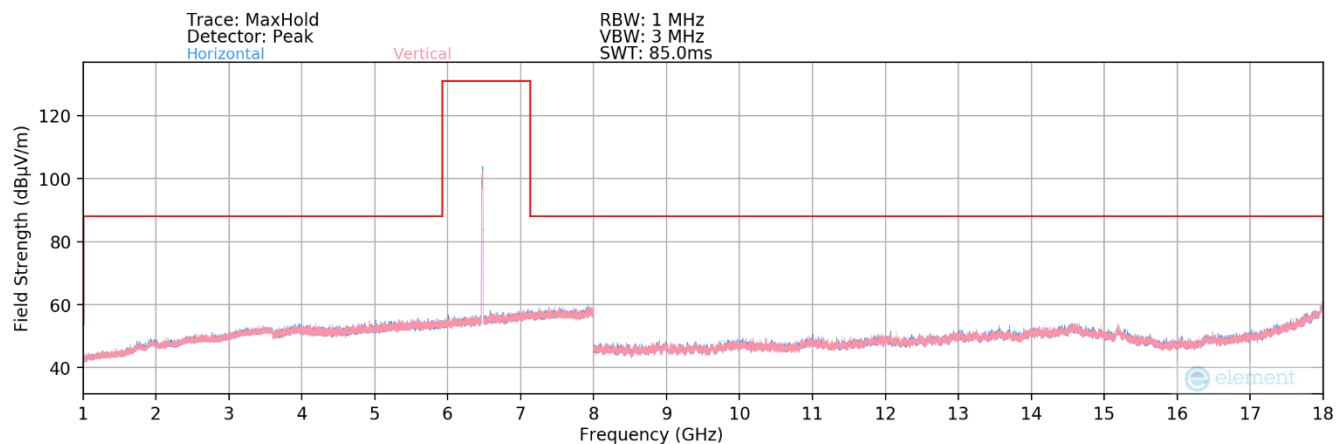
7.7.1 MIMO Radiated Spurious Emission Measurements



Plot 7-73. Radiated Spurious Plot below 1GHz MIMO (802.11a)

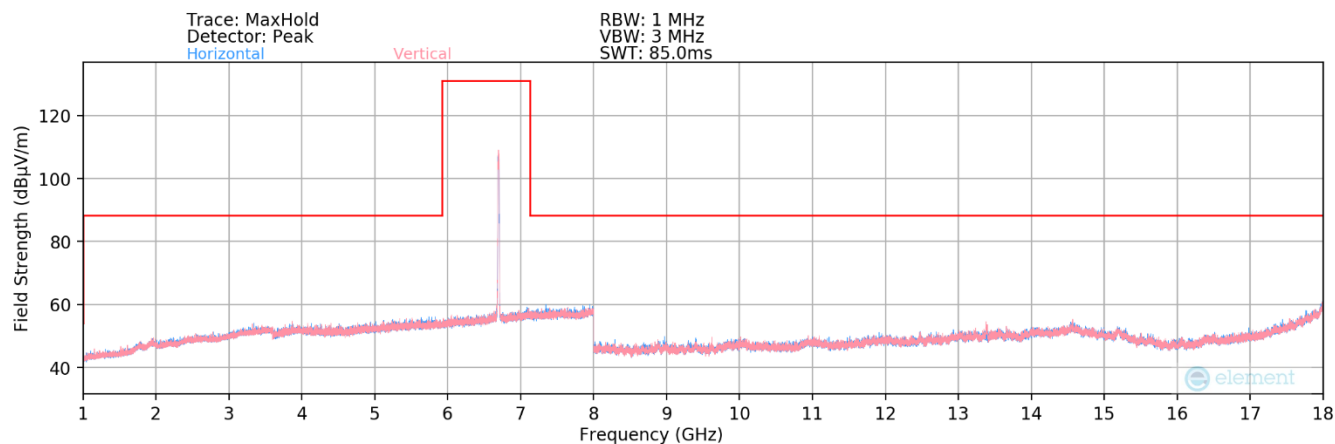


Plot 7-74. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11a – UNII Band 5 Ch. 45)

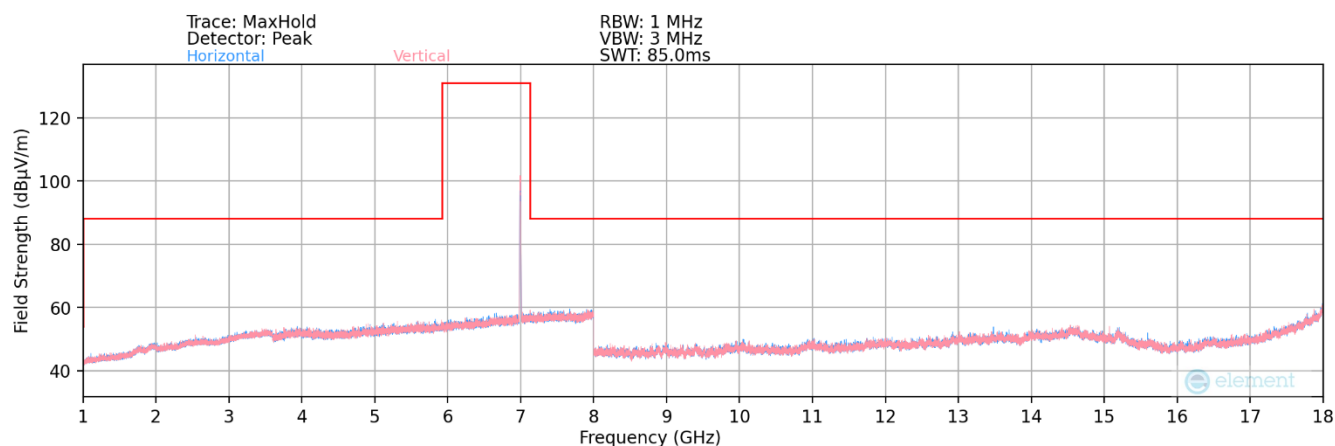


Plot 7-75. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11a – UNII Band 6 Ch. 105)

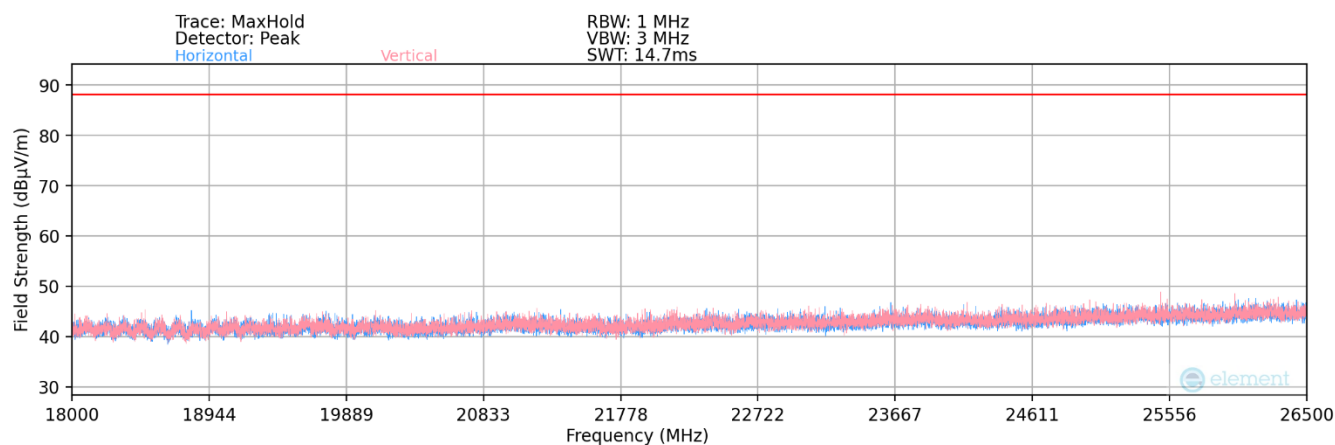
FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-76. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11a – UNII Band 7 Ch. 149)

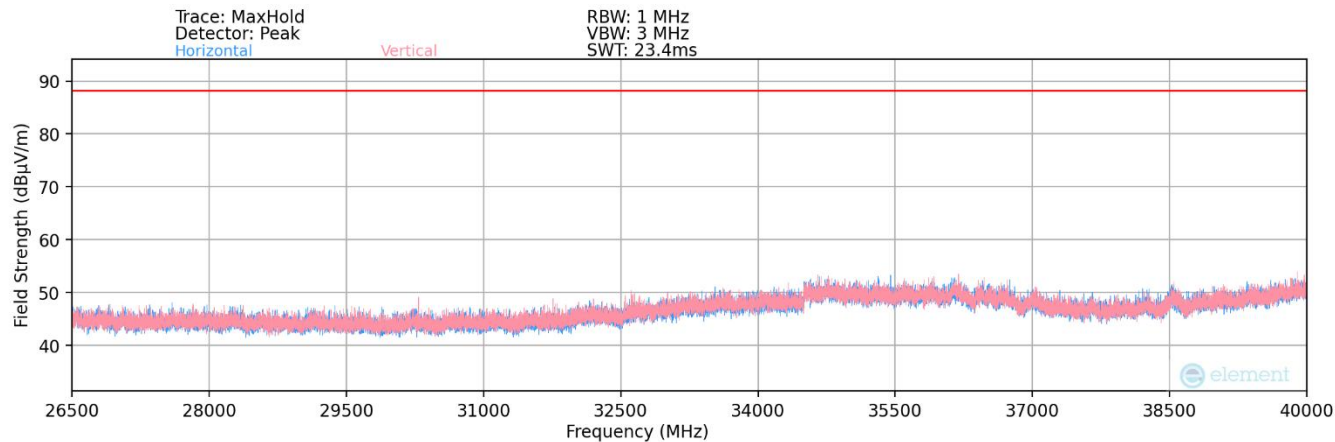


Plot 7-77. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11a – UNII Band 8 Ch. 209)

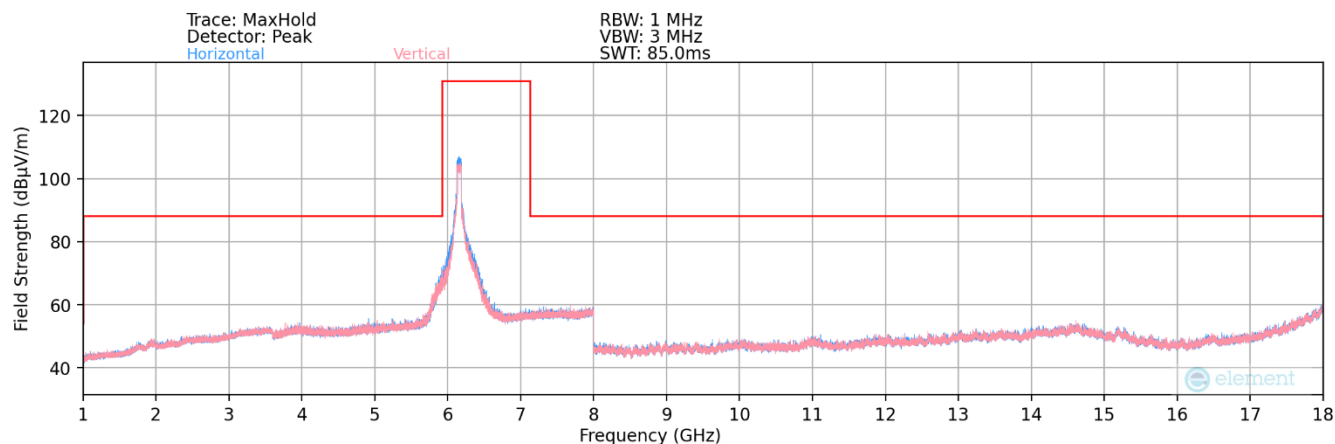


Plot 7-78. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a) – Ch. 149

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-79. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a) – Ch. 149



Plot 7-80. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 5 Ch. 39) – 20MHz Punctured

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270083-17-R1.A3L	Test Dates: 11/12/25 - 12/23/25	EUT Type: Portable Handset	Page 95 of 121

MIMO Radiated Spurious Emission Measurements – UNII Band 5

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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]
802.11a	MIMO	5	2	5935	*	11870.00	Average	V	-	-	-78.49	9.41	0.00	37.92	53.98	-16.06
					*	11870.00	Peak	V	-	-	-66.10	9.41	0.00	50.31	73.98	-23.67
					*	17805.00	Average	V	165	53	-74.48	16.76	0.00	49.28	53.98	-4.70
					*	17805.00	Peak	V	165	53	-60.10	16.76	0.00	63.66	73.98	-10.32
					*	23740.00	Average	V	150	18	-59.40	4.02	-9.54	42.08	53.98	-11.90
					*	23740.00	Peak	V	150	18	-49.13	4.02	-9.54	52.35	73.98	-21.63
			45	6175	*	29675.00	Peak	V	150	12	-48.89	5.01	-9.54	53.58	68.20	-14.62
					*	12350.00	Average	V	220	70	-77.66	9.78	0.00	39.12	53.98	-14.86
					*	12350.00	Peak	V	220	70	-65.58	9.78	0.00	51.20	73.98	-22.78
					*	18525.00	Average	V	150	8	-55.77	1.00	-9.54	42.69	53.98	-11.29
					*	18525.00	Peak	V	150	8	-44.91	1.00	-9.54	53.55	73.98	-20.43
					*	24700.00	Peak	V	150	25	-48.27	4.23	-9.54	53.42	68.20	-14.78
			93	6415	*	30875.00	Peak	V	150	355	-55.68	5.66	-9.54	47.44	68.20	-20.76
					*	12830.00	Peak	V	174	37	-63.90	10.40	0.00	53.50	68.20	-14.70
					*	19245.00	Average	V	150	8	-52.46	1.74	-9.54	46.74	53.98	-7.24
					*	19245.00	Peak	V	150	8	-40.73	1.74	-9.54	58.47	73.98	-15.51
					*	25660.00	Peak	V	150	28	-43.24	4.69	-9.54	58.91	68.20	-9.29
					*	32075.00	Peak	V	150	345	-51.72	6.47	-9.54	52.21	68.20	-15.99

Table 7-38. Radiated Measurements MIMO – SP

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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]
802.11a	MIMO	5	2	5935	*	11870.00	Average	V	-	-	-78.77	9.41	0.00	37.64	53.98	-16.34
					*	11870.00	Peak	V	-	-	-66.14	9.41	0.00	50.27	73.98	-23.71
					*	17805.00	Average	V	238	66	-77.29	16.76	0.00	46.47	53.98	-7.51
					*	17805.00	Peak	V	238	66	-63.51	16.76	0.00	60.25	73.98	-13.73

Table 7-39. Radiated Measurements MIMO with WCP

FCC ID: A3LSMS947B	MEASUREMENT REPORT			Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 6

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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]
802.11a	MIMO	6	97	6435		12870.00	Peak	V	138	37	-65.23	10.56	0.00	52.33	68.20	-15.87
					*	19305.00	Average	V	150	8	-52.24	1.65	-9.54	46.87	53.98	-7.11
					*	19305.00	Peak	V	150	8	-40.40	1.65	-9.54	58.71	73.98	-15.27
						25740.00	Peak	V	150	32	-42.97	4.71	-9.54	59.20	68.20	-9.00
						32175.00	Peak	V	150	346	-52.45	6.76	-9.54	51.77	68.20	-16.43
			105	6475		12950.00	Peak	V	201	42	-63.76	10.59	0.00	53.83	68.20	-14.37
					*	19425.00	Average	V	150	10	-52.80	1.76	-9.54	46.42	53.98	-7.56
					*	19425.00	Peak	V	150	10	-41.82	1.76	-9.54	57.40	73.98	-16.58
						25900.00	Peak	V	150	346	-44.05	4.78	-9.54	58.19	68.20	-10.01
						32375.00	Peak	V	150	8	-52.60	6.56	-9.54	51.43	68.20	-16.77
			113	6515		13030.00	Peak	V	211	40	-62.66	10.85	0.00	55.19	68.20	-13.01
					*	19545.00	Average	V	150	8	-53.73	1.89	-9.54	45.62	53.98	-8.36
					*	19545.00	Peak	V	150	8	-42.64	1.89	-9.54	56.71	73.98	-17.27
						26060.00	Peak	V	150	34	-44.81	4.92	-9.54	57.57	68.20	-10.63
						32575.00	Peak	V	150	33	-55.56	6.76	-9.54	48.66	68.20	-19.54

Table 7-40. Radiated Measurements MIMO – LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 7

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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]
802.11a	MIMO	7	117	6535		13070.00	Peak	V	192	46	-63.13	10.74	0.00	54.61	68.20	-13.59
					*	19605.00	Average	V	150	353	-54.26	2.20	-9.54	45.40	53.98	-8.58
					*	19605.00	Peak	V	150	353	-43.05	2.20	-9.54	56.61	73.98	-17.37
						26140.00	Peak	V	150	32	-43.25	4.98	-9.54	59.19	68.20	-9.01
						32675.00	Peak	V	150	344	-54.78	7.14	-9.54	49.82	68.20	-18.38
			149	6695	*	13390.00	Average	V	152	45	-75.57	11.04	0.00	42.47	53.98	-11.51
					*	13390.00	Peak	V	152	45	-63.42	11.04	0.00	54.62	73.98	-19.36
					*	20085.00	Average	V	150	54	-53.05	2.07	-9.54	46.48	53.98	-7.50
					*	20085.00	Peak	V	150	54	-41.48	2.07	-9.54	58.05	73.98	-15.93
						26780.00	Peak	V	150	30	-39.91	5.18	-9.54	62.73	68.20	-5.47
			185	6875		33475.00	Peak	V	-	-	-57.30	8.48	-9.54	48.64	68.20	-19.56
						13750.00	Peak	V	242	47	-63.10	11.51	0.00	55.41	68.20	-12.79
					*	20625.00	Average	V	150	27	-53.10	2.36	-9.54	46.72	53.98	-7.26
					*	20625.00	Peak	V	150	27	-41.55	2.36	-9.54	58.27	73.98	-15.71
						27500.00	Peak	V	150	36	-37.00	5.00	-9.54	65.46	68.20	-2.74
						27500.00	Peak	V	150	36	-53.14	5.00	-9.54	49.32	68.20	-18.88
						34375.00	Peak	V	-	-	-56.30	9.46	-9.54	50.62	68.20	-17.58

Table 7-41. Radiated Measurements MIMO – SP

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 8

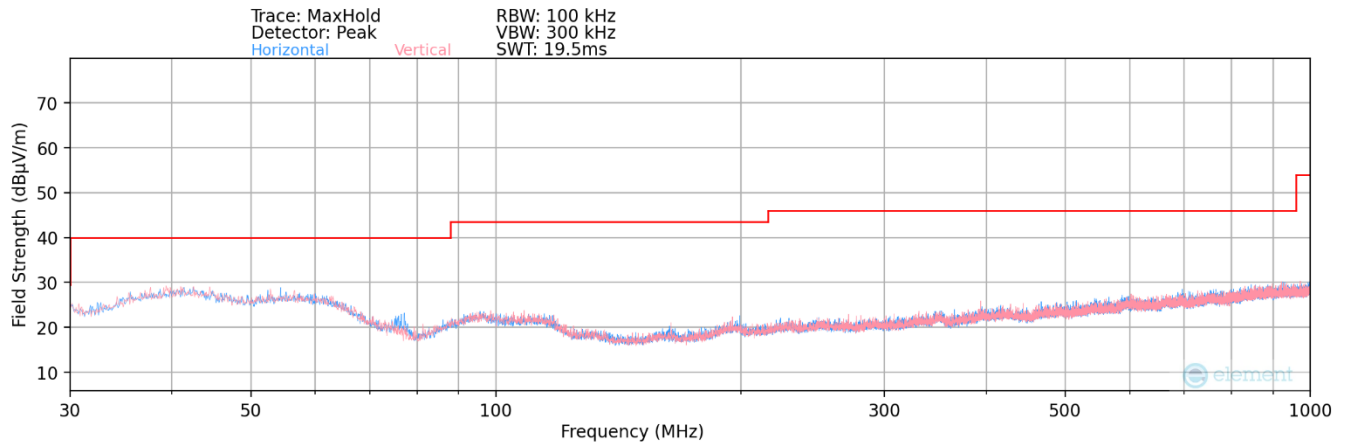
Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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]
802.11a	MIMO	8	189	6895		13790.00	Peak	V	214	45	-62.78	11.38	0.00	55.60	68.20	-12.60
					*	20685.00	Average	V	150	8	-64.65	2.33	-9.54	35.14	53.98	-18.84
					*	20685.00	Peak	V	150	8	-52.47	2.33	-9.54	47.32	73.98	-26.66
						27580.00	Peak	V	150	34	-53.21	5.33	-9.54	49.58	68.20	-18.62
						34475.00	Peak	V	-	-	-56.84	9.33	-9.54	49.95	68.20	-18.25
			209	6995		13990.00	Peak	V	231	55	-62.74	11.63	0.00	55.89	68.20	-12.31
					*	20985.00	Average	V	150	20	-61.86	2.83	-9.54	38.43	53.98	-15.55
					*	20985.00	Peak	V	150	20	-50.77	2.83	-9.54	49.52	73.98	-24.46
						27980.00	Peak	V	150	39	-52.10	5.30	-9.54	50.66	68.20	-17.54
						34975.00	Peak	V	-	-	-58.11	9.79	-9.54	49.14	68.20	-19.06
			233	7115		14230.00	Peak	V	227	67	-64.46	12.35	0.00	54.89	68.20	-13.31
					*	21345.00	Average	V	150	47	-58.54	2.85	-9.54	41.77	53.98	-12.21
					*	21345.00	Peak	V	150	47	-47.18	2.85	-9.54	53.13	73.98	-20.85
						28460.00	Peak	V	150	343	-54.47	5.34	-9.54	48.33	68.20	-19.87
						35575.00	Peak	V	-	-	-58.08	9.53	-9.54	48.91	68.20	-19.29

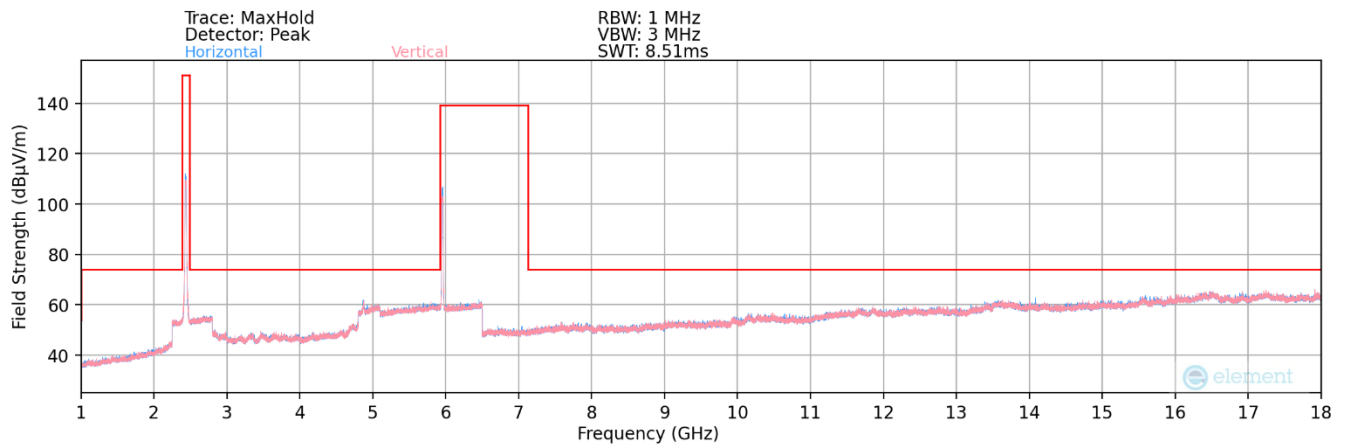
Table 7-42. Radiated Measurements MIMO – LPI

FCC ID: A3LSMS947B	MEASUREMENT REPORT		Approved by: Technical Manager
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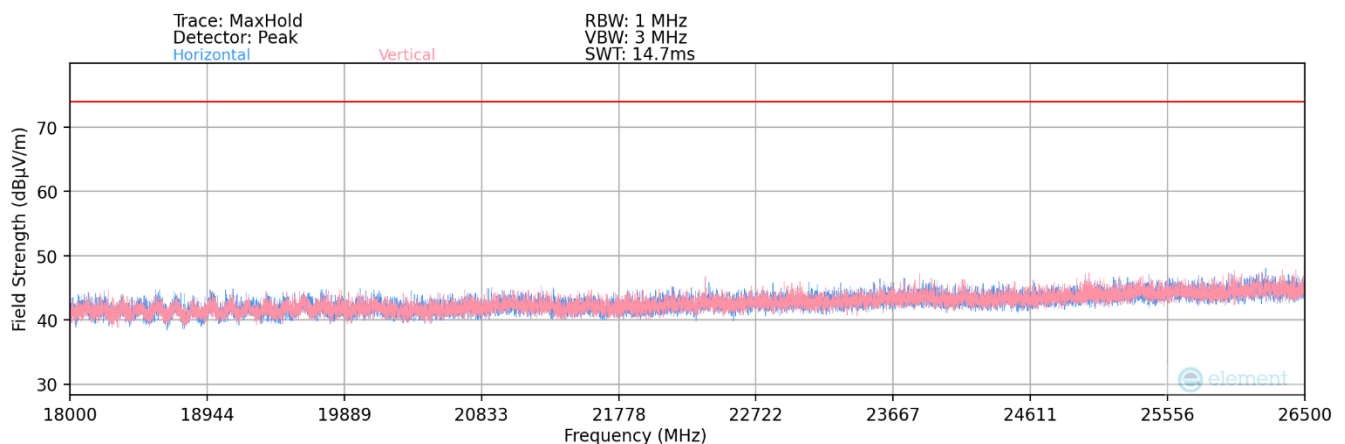
7.7.2 MIMO Radiated Spurious Emission Measurements – Simultaneous Transmission



Plot 7-81. Radiated Spurious Plot below 1GHz MIMO 802.11b (2.4GHz – Ch.6) + MIMO 802.11a (6GHz – Ch.1)



Plot 7-82. Radiated Spurious Plot above 1GHz MIMO 802.11b (2.4GHz – Ch.6) + MIMO 802.11a (6GHz – Ch.1)



Plot 7-83. Radiated Spurious Plot 18GHz – 26.6GHz MIMO 802.11b (2.4GHz – Ch.6) + MIMO 802.11a (6GHz – Ch.1)

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