



ELEMENT MATERIALS TECHNOLOGY,

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MEASUREMENT REPORT

FCC PART 15.407 802.11a/n/ac/ax (OFDM)

Applicant Name:

Samsung Electronics Co., Ltd.

129, Samsung-ro,

Yeongtong-gu, Suwon-si

Gyeonggi-do, 16677, Korea

Date of Testing:

10/29/2025-1/28/2026

Test Report Issue Date:

2/3/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2512010100-16.A3L

FCC ID:

A3LSMA576JPN

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SC-54G

EUT Type:

Portable Handset

Frequency Range:

5180 – 5885MHz

Modulation Type:

OFDM

FCC Equipment Class:

Unlicensed National Information Infrastructure TX (NII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

FCC Test Procedure(s):

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

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

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	2/3/2026	WKR0000005883

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Channel Bandwidth [MHz]	UNII Band	Tx Frequency [MHz]	MIMO	
			Max. Power [mW]	Max. Power [dBm]
20	1	5180 - 5240	79.25	18.99
	2A	5260 - 5320	69.18	18.40
	2C	5500 - 5720	78.70	18.96
	3	5745 - 5825	73.34	18.65
	4	5845 - 5885	37.44	15.73
40	1	5190 - 5230	51.52	17.12
	2A	5270 - 5310	51.40	17.11
	2C	5510 - 5710	56.89	17.55
	3	5755 - 5795	54.45	17.36
	4	5835 - 5875	30.45	14.84
80	1	5210	26.79	14.28
	2A	5290	23.28	13.67
	2C	5530 - 5690	27.67	14.42
	3	5775	25.29	14.03
	4	5855	14.37	11.58

EUT Overview

Note: The UNII Band 4 max power values shown in the above table are e.i.r.p values.

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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.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered test laboratory with the site description on file with ISED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113).
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMA576JPN**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

The authorization for this device utilize data referencing from FCC ID: A3LSMA576U as permitted per KDB 484596 D01 v03. Data referencing data test results are included in Appendix A of this report.

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

2.2 Device Capabilities

This device contains the following capabilities:

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

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745	169	5845
:	:	:	:	:	:	:	:	:	:
40	5200	56	5280	120	5600	157	5785	173	5865
:	:	:	:	:	:	:	:	:	:
48	5240	64	5320	144	5720	165	5825	177	5885

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

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755	167	5835
:	:	:	:	:	:	:	:	:	:
46	5230	62	5310	118	5590	159	5795	175	5875
				:	:				
				142	5710				

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

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775	167	5835
				:	:				
				122	5610				
				:	:				
				138	5690				

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

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Notes:

- 5GHz NII operation is possible in 20MHz, 40MHz, and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of ANSI C63.10:2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

802.11 Mode/Band		ANT1		ANT2		MIMO (1+2)	
		Duty Cycle [%]	Radiated DCCF [dB]	Duty Cycle [%]	Radiated DCCF [dB]	Duty Cycle [%]	Radiated DCCF [dB]
5GHz	a	96.58	0.15	95.98	0.18	96.28	0.16
	n (HT20)	96.33	0.16	95.97	0.18	96.29	0.16
	ac (VHT20)	98.74	N/A	98.75	N/A	97.57	0.11
	ax (HE20)	97.68	0.10	97.80	0.10	97.21	0.12
	n (HT40)	95.17	0.22	95.83	0.18	96.24	0.17
	ac (VHT40)	95.84	0.18	95.04	0.22	96.04	0.18
	ax (HE40)	96.63	0.15	97.54	0.11	94.67	0.24
	ac (VHT80)	94.44	0.25	95.18	0.21	90.51	0.43
	ax (HE80)	93.81	0.28	94.51	0.25	89.60	0.48

Table 2-4. Measured Duty Cycles

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

WiFi Configurations		SISO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
5GHz	11a	✓	✓	✗	✗	✓	✓
	11n	✓	✓	✓	✓	✓	✓
	11ac	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓

Table 2-5. Antenna / Technology Configuration

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity – 2Tx Function

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

802.11a	MCS Index			Spatial Stream	OFDM (802.11n/802.11ac)				OFDM (802.11ac)		OFDM (802.11ax)								
					20MHz		40MHz		80MHz		20MHz			40MHz			80MHz		
	HT	VHT	HE		0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs 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
6	0	0	0	1	6.5	7.2	13.5	15	29.3	32.5	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6
9	1	1	1	1	13	14.4	27	30	58.5	65	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3
12	2	2	2	1	19.5	21.7	40.5	45	87.8	97.5	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9
18	3	3	3	1	26	28.9	54	60	117	130	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5
24	4	4	4	1	39	43.3	81	90	175.5	195	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8
36	5	5	5	1	52	57.8	108	120	234	260	68.8	65	58.5	137.6	130	117	288.2	272.2	245
48	6	6	6	1	58.5	65	121.5	135	263.3	292.5	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6
54	7	7	7	1	65	72.2	135	150	292.5	325	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3
	8	8	1	78	86.7	162	180	351	390	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	
	9	9	1	N/A	N/A	180	200	390	433.3	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	
		10	1							129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	
		11	1							143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	
			1							154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	
			1							172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	
6	8	0	0	2	13	14.4	27	30	58.5	65	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3
9	9	1	1	2	26	28.9	54	60	117	130	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5
12	10	2	2	2	39	43.3	81	90	175.5	195	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8
18	11	3	3	2	52	57.8	108	120	234	260	68.8	65	58.5	137.6	130	117	288.2	272.2	245
24	12	4	4	2	78	86.7	162	180	351	390	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5
36	13	5	5	2	104	115.6	216	240	468	520	137.6	130	117	275.3	260	234	576.5	544.4	490
48	14	6	6	2	117	130	243	270	526.5	585	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3
54	15	7	7	2	130	144.4	270	300	585	650	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5
	8	8	2	156	173.3	324	360	702	780	206.5	195	175.5	412.9	390	351	864.7	816.7	735	
	9	9	2	N/A	N/A	360	400	780	866.7	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	
		10	2							258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	
		11	2							286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	
			2							309.7	292.5	263.3	619.4	585	526.5	1297.1	1225	1102.5	
			2							344.1	325	292.5	688.2	650	585	1441.2	1361.1	1225	

Table 2-6. Supported Data Rates

2.3 Antenna Description

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

Frequency [GHz]	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional Gain (dBi)
5.20	-5.89	-7.16	-3.49
5.30	-6.46	-7.31	-3.86
5.50	-4.72	-6.66	-2.63
5.80	-5.25	-6.1	-2.65
5.85	-5.77	-6.02	-2.88

Table 2-7. Antenna Peak Gain

2.4 Test Configuration

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

2.5 Software and Firmware

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

2.6 EMI Suppression Device(s) / Modifications

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

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3.0 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) was 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 7.7. 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 in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

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

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

3.4 Environmental Conditions

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

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4.0 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)
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

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 12 of 124

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	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

Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

Equipment listed with "N/A" under calibration information was not used to make calibrated measurements.

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

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

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

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

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Component	Serial Number
MegaPhase Cable TM40K1K1-36	18160102 001
MCL 10dB Attenuator BW-K10 2W44+	1902

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

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

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

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

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

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

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

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

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

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 14 of 124

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 6-9. 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 6-10. MD 1M 18-40 EMC Cable and Switch System Components

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMA576JPN
 FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference	Data Referencing
N/A	26dB Bandwidth	N/A	CONDUCTED	PASS	Section 7.2	Yes
15.407(e)	6dB Bandwidth	>500kHz(5725-5850MHz and 5850 – 5895MHz)		PASS	Section 7.3	Yes
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [7.3])		PASS	Section 7.4	Yes
15.407(a)(3) (iii)	Maximum e.i.r.p. (UNII-4, 5.85 – 5.895GHz)	< 30dBm		PASS	Section 7.4	Yes
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)/(iii)	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) and RSS-247 [7.3] (UNII-1 through -3) <14dBm/MHz (UNII-4)		PASS	Section 7.5	Yes
15.407(h)	Dynamic Frequency Selection	See DFS Test Report		PASS	See DFS Test Report	No
15.407(b)(1) – (b)(5)	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [7.3])	RADIATED	PASS	Section 7.6	Yes
15.205, 15.407(b)(1) – (b)(5)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.6	Yes
15.407	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	LINE CONDUCTED	PASS	Section 7.7	No

Table 7-1. Summary of Test Results

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 16 of 124

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst-case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "EMC Software Tool," Version 2.3.0.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 1.6.4.
- 6) Data was referenced from model SM-A576U1 for the certification of SC-54G. See Section 9.0 for spotcheck results.

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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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.

The 26dB bandwidth is used to determine the conducted power limits.

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

None.

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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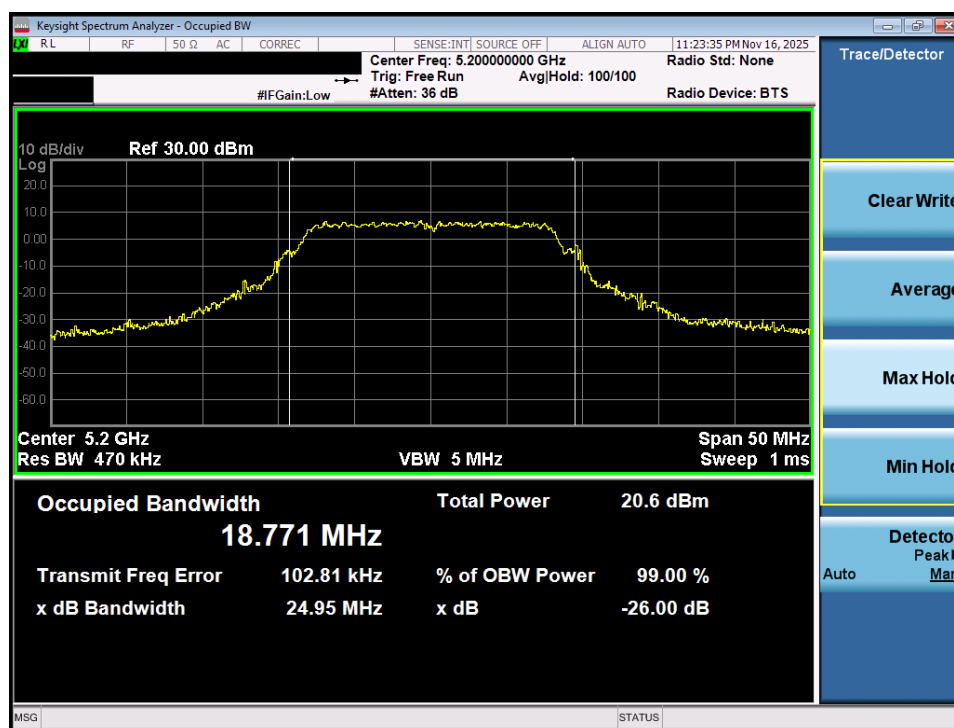
MIMO 26dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 1	5180	36	a	24.90	24.13	18.72	18.56
	5200	40	a	24.95	24.36	18.77	18.49
	5240	48	a	24.83	23.91	18.74	18.18
	5180	36	n	26.26	26.38	19.40	19.09
	5200	40	n	26.69	26.33	19.38	19.26
	5240	48	n	26.59	26.31	19.24	19.13
	5180	36	ax SU	24.91	24.49	19.46	19.31
	5200	40	ax SU	24.82	23.27	19.48	19.32
	5240	48	ax SU	24.63	23.62	19.39	19.41
	5190	38	n	48.74	48.52	39.50	39.77
	5230	46	n	47.45	46.17	39.30	39.25
	5190	38	ax SU	44.53	45.75	39.14	39.18
	5230	46	ax SU	44.98	46.25	38.81	39.00
	5210	42	ac	87.54	88.09	76.83	76.78
	5210	42	ax SU	91.19	89.18	78.47	78.53
Band 2A	5260	52	a	24.72	23.86	18.60	18.22
	5280	56	a	24.48	23.98	18.49	18.21
	5320	64	a	24.70	23.76	18.73	18.27
	5260	52	n	26.77	26.12	19.21	19.07
	5280	56	n	26.59	26.52	19.47	18.96
	5320	64	n	26.70	26.19	19.46	18.93
	5260	52	ax SU	24.66	23.65	19.48	19.25
	5280	56	ax SU	24.80	23.43	19.48	19.27
	5320	64	ax SU	24.65	23.62	19.49	19.28
	5270	54	n	48.87	47.47	39.38	39.27
	5310	62	n	47.91	46.99	39.33	39.49
	5270	54	ax SU	45.49	45.24	38.79	38.80
	5310	62	ax SU	45.06	44.98	39.23	39.11
	5290	58	ac	88.48	89.91	76.91	76.90
	5290	58	ax SU	93.98	97.12	78.63	78.26
Band 2C	5500	100	a	24.99	23.62	18.69	18.51
	5600	120	a	25.60	22.26	18.76	18.15
	5720	144	a	24.61	23.84	18.58	18.36
	5500	100	n	26.69	26.38	19.24	19.28
	5600	120	n	26.33	25.55	19.44	19.06
	5720	144	n	26.14	26.16	19.39	19.32
	5500	100	ax SU	24.66	23.50	19.42	19.29
	5600	120	ax SU	24.21	23.61	19.50	19.31
	5720	144	ax SU	24.57	23.94	19.49	19.26
	5510	102	n	49.92	47.74	39.52	39.46
	5590	118	n	49.48	48.33	39.46	39.53
	5710	142	n	48.13	47.90	39.41	39.62
	5510	102	ax SU	44.63	44.88	38.87	38.77
	5590	118	ax SU	45.04	44.99	38.99	38.90
	5710	142	ax SU	44.73	45.42	38.96	38.92
	5530	106	ac	87.68	87.46	76.92	77.17
	5610	122	ac	87.78	90.57	76.92	76.81
	5690	138	ac	88.37	89.97	76.91	77.01
	5530	106	ax SU	92.73	96.92	78.49	78.76
	5610	122	ax SU	91.28	95.49	78.65	78.37
	5690	138	ax SU	93.76	92.64	78.49	78.36

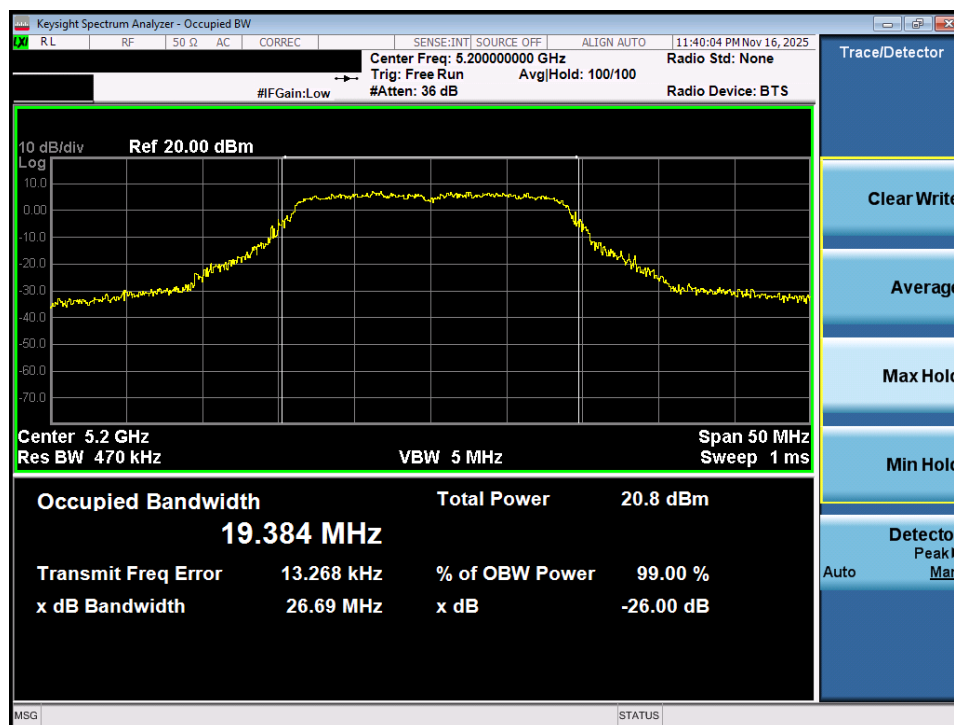
Table 7-2. Bands 1, 2A, 2C Conducted 26dB Bandwidth Measurements MIMO

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.2.1 MIMO Antenna-1 26dB Bandwidth Measurements

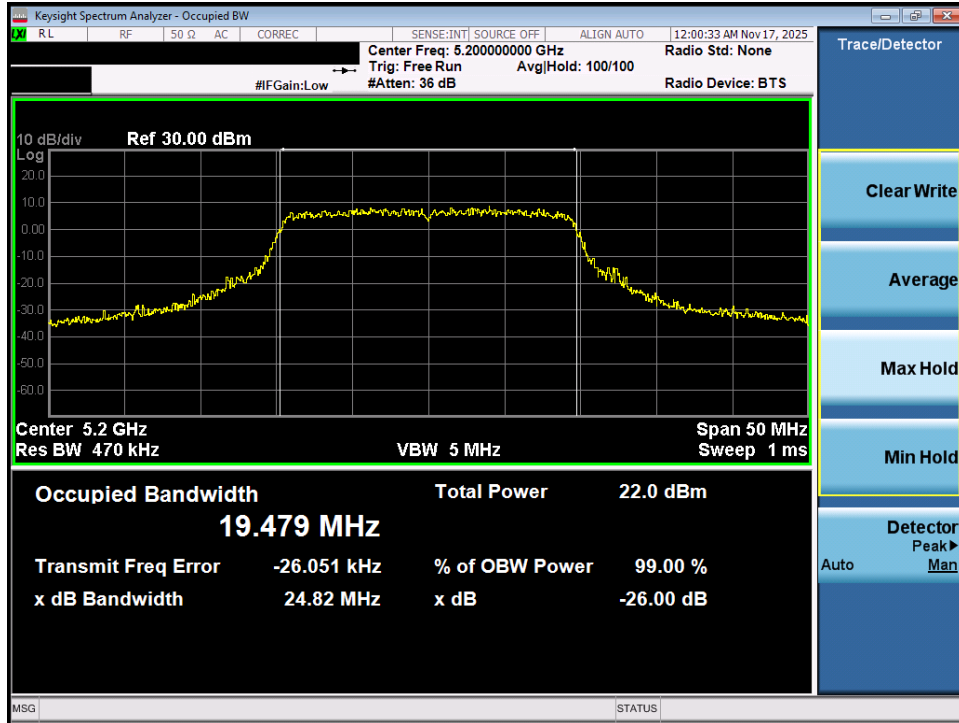


Plot 7-1. 26dB Bandwidth Plot MIMO ANT1 (802.11a (UNII Band 1) – Ch. 40)

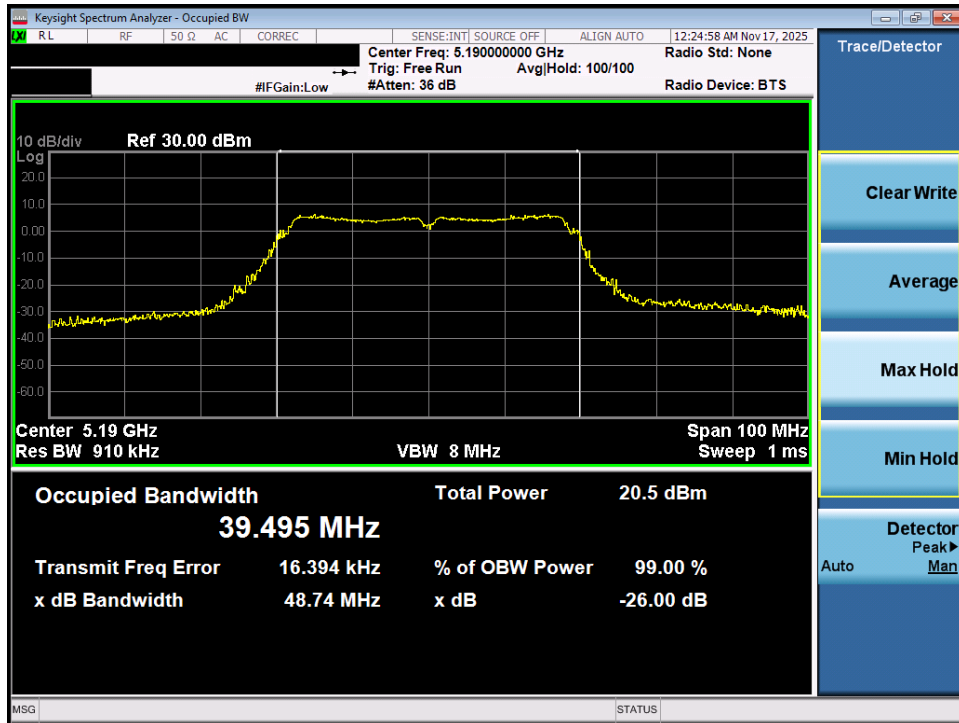


Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 20 of 124

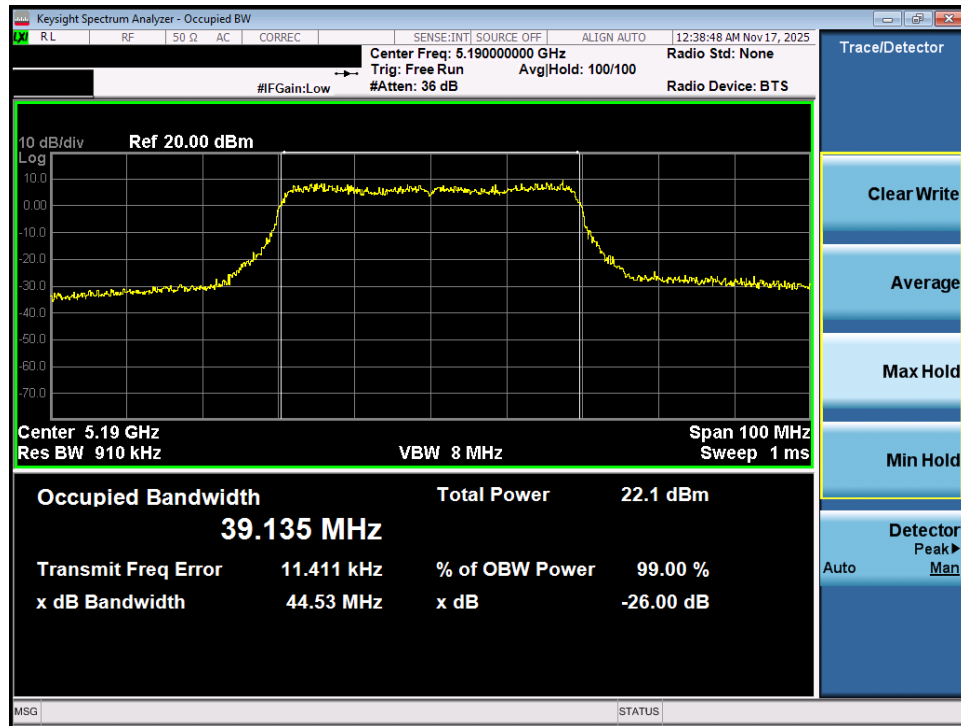


Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

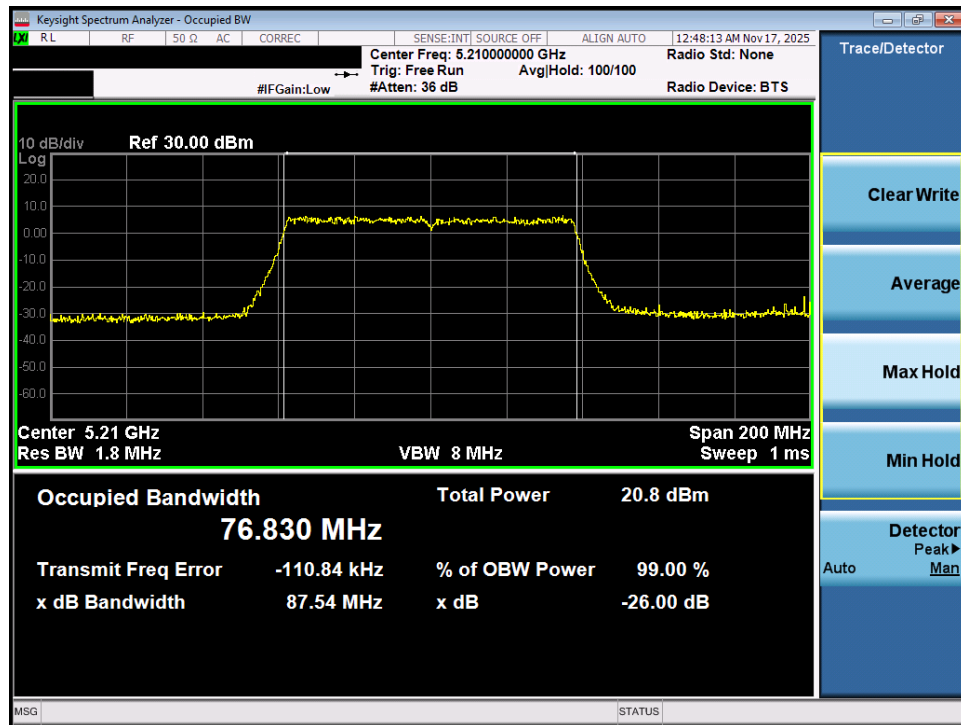


Plot 7-4. 26dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 21 of 124

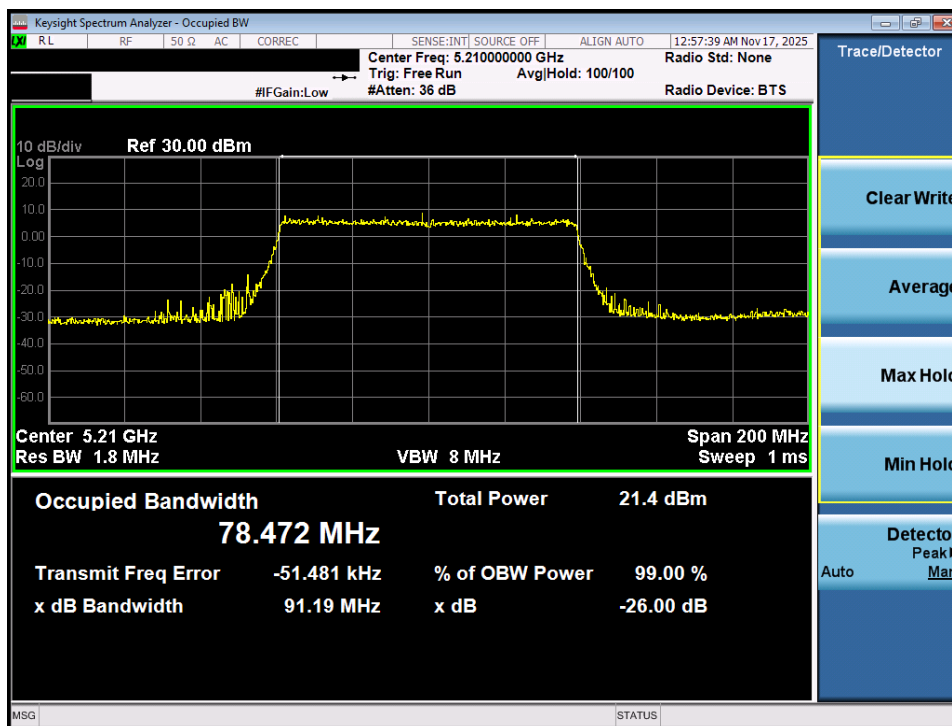


Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)



Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

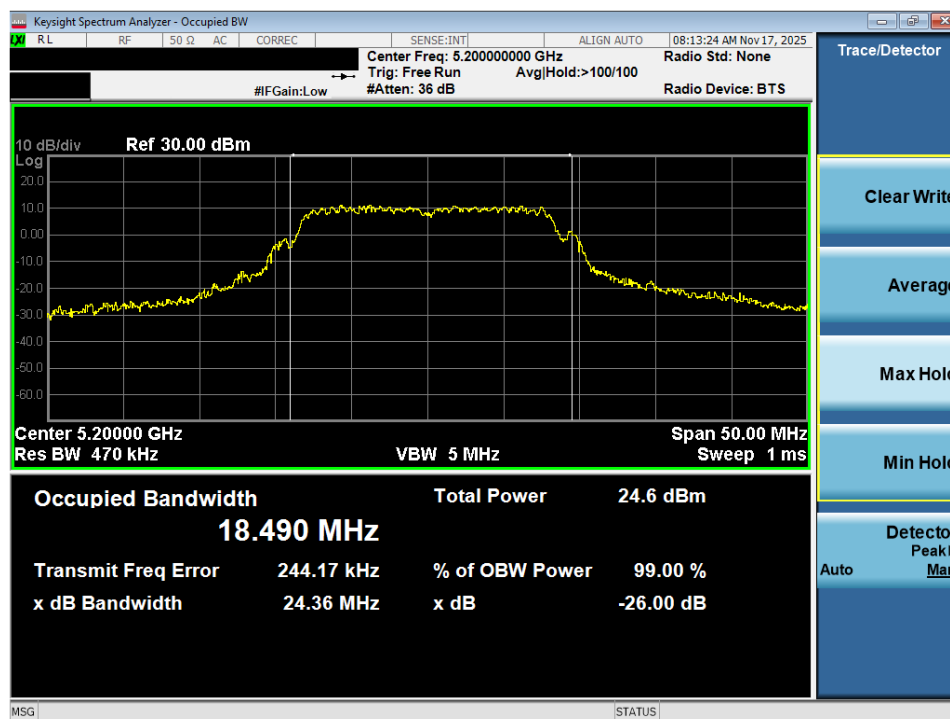
FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 22 of 124



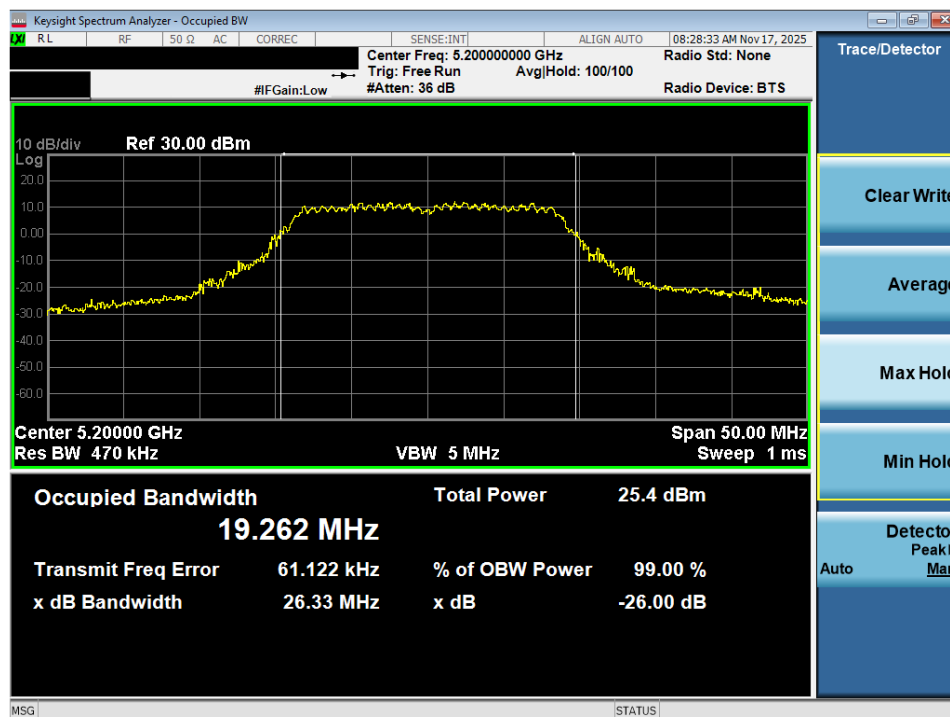
Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 23 of 124

7.2.2 MIMO Antenna-2 26dB Bandwidth Measurements

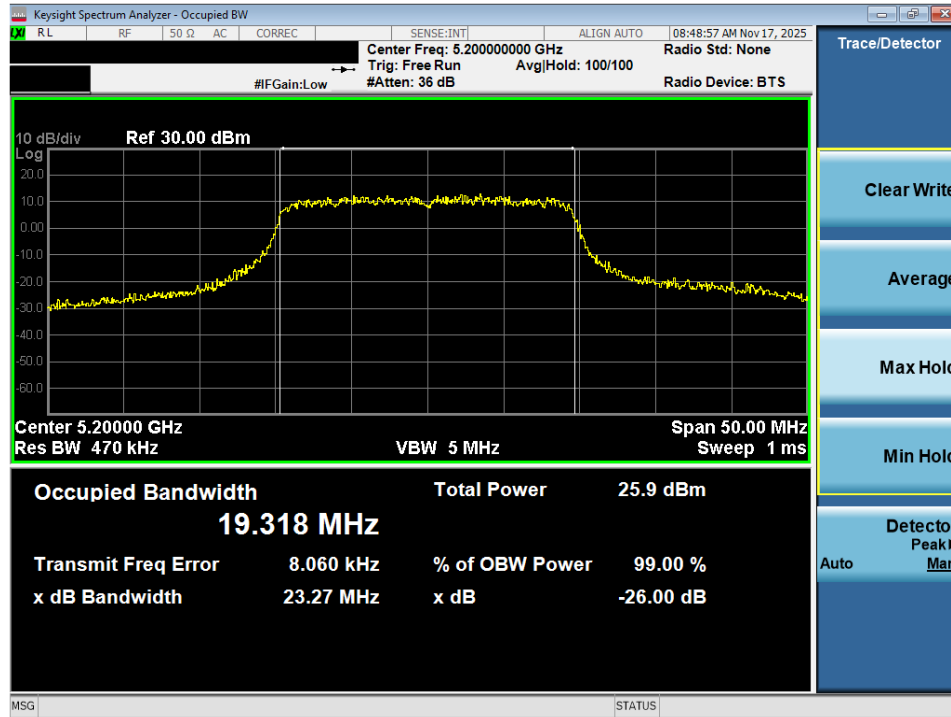


Plot 7-8. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 1) – Ch. 40)

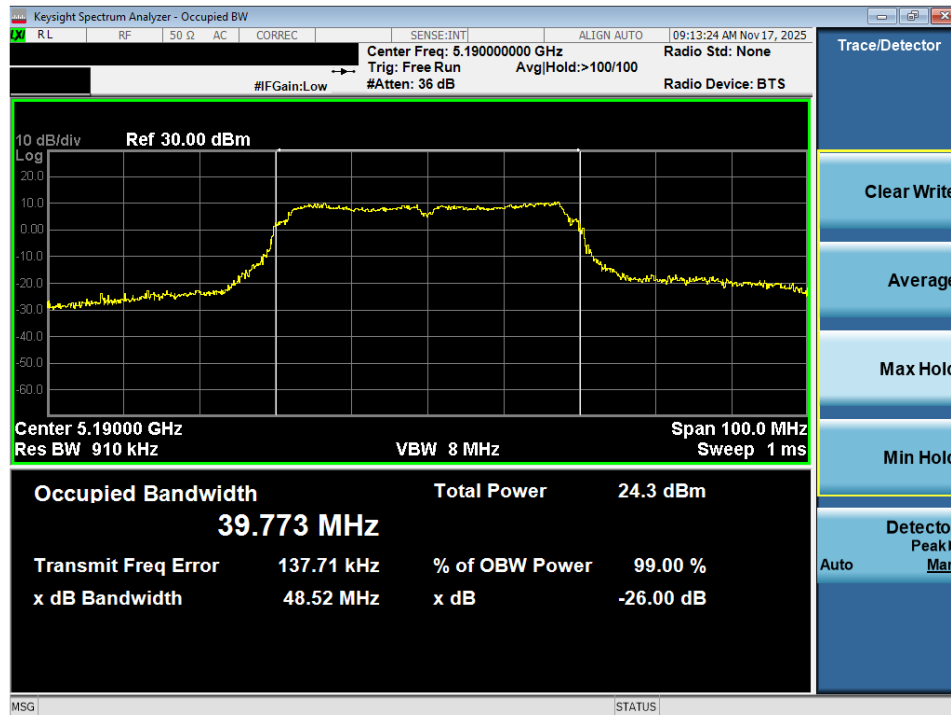


Plot 7-9. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 24 of 124

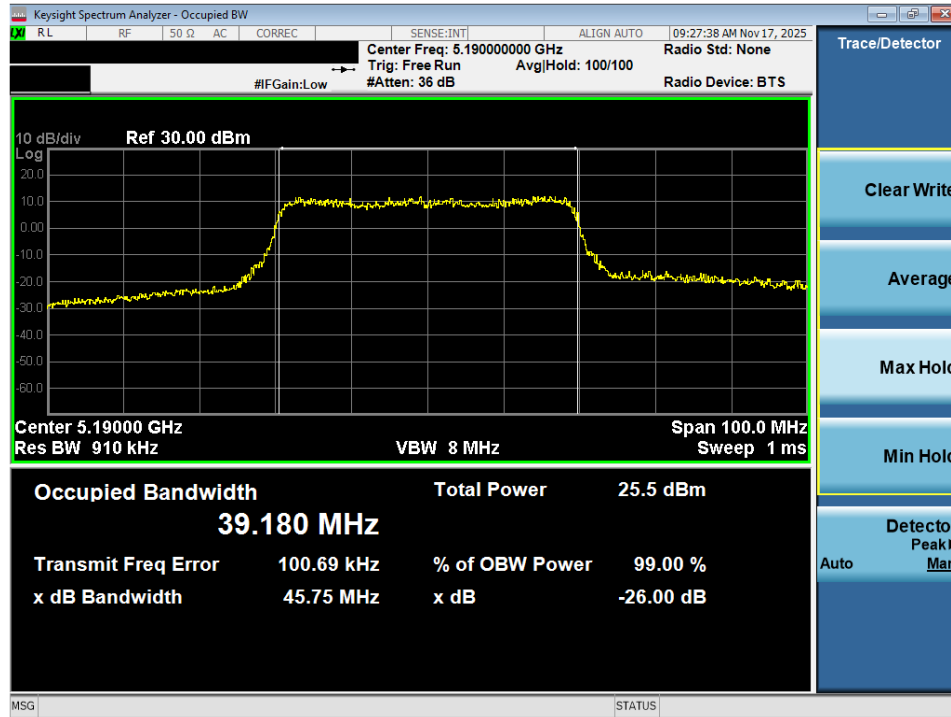


Plot 7-10. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

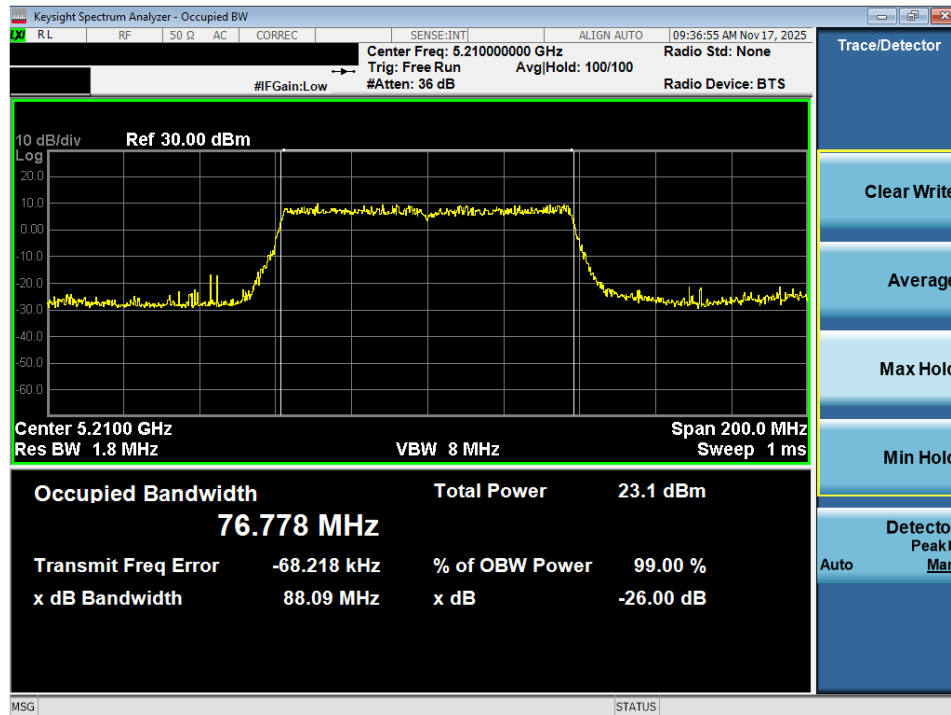


Plot 7-11. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 25 of 124

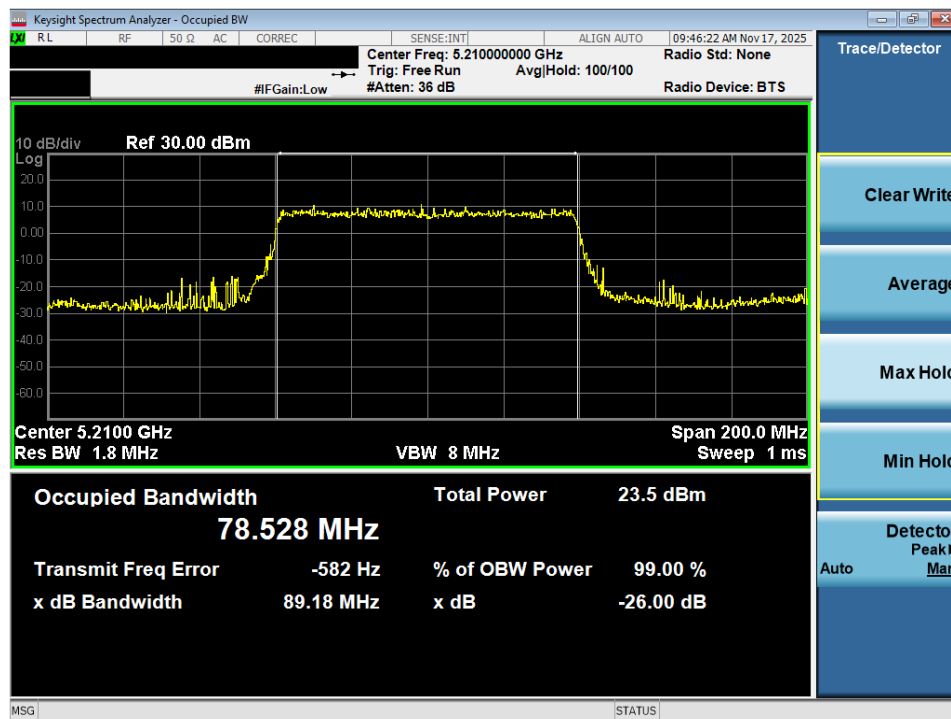


Plot 7-12. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)



Plot 7-13. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-14. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 27 of 124

7.3 6dB Bandwidth Measurement

Test Overview and Limit

The bandwidth at 6dB 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 6dB bandwidth.

In the 5.725 – 5.850GHz band and 5.850 – 5.895GHz band, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10:2020 – Section 6.9.2

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. 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 = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

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MIMO 6dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3	5745	149	a	16.38	16.38	18.82	18.50
	5785	157	a	16.37	16.42	18.89	18.39
	5825	165	a	16.38	16.38	18.83	18.57
	5745	149	n	17.62	17.66	19.44	19.12
	5785	157	n	17.62	17.67	19.34	18.97
	5825	165	n	17.59	17.65	19.39	19.18
	5745	149	ax SU	18.97	19.28	19.56	19.27
	5785	157	ax SU	19.06	19.25	19.45	19.26
	5825	165	ax SU	19.07	18.81	19.57	19.31
	5755	151	n	36.46	36.49	39.65	39.69
	5795	159	n	36.47	36.48	39.47	39.40
	5755	151	ax SU	38.26	38.18	38.82	38.94
	5795	159	ax SU	38.53	38.97	38.85	38.82
	5775	155	ac	76.60	76.59	76.87	76.85
	5775	155	ax SU	78.23	78.17	78.47	78.74

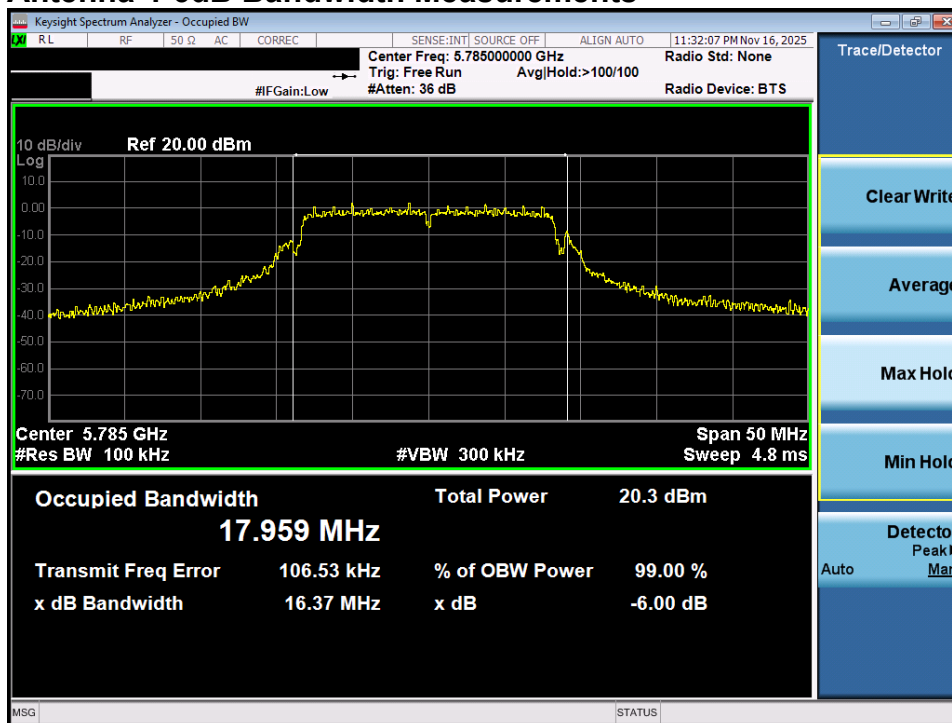
Table 7-3. Band 3 Conducted 6dB Bandwidth & OBW Measurements MIMO

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3/4	5845	169	a	16.37	16.37	18.86	18.46
Band 4	5865	173	a	16.36	16.38	19.04	18.48
	5885	177	a	16.36	16.38	18.78	18.28
Band 3/4	5845	169	n	17.87	17.62	19.42	18.95
Band 4	5865	173	n	17.61	17.64	19.30	19.18
	5885	177	n	17.75	17.67	19.42	19.14
Band 3/4	5845	169	ax SU	18.95	18.87	19.49	19.25
Band 4	5865	173	ax SU	18.96	19.27	19.46	19.34
	5885	177	ax SU	18.99	18.93	19.43	19.26
Band 3/4	5835	167	n	36.51	36.49	39.52	39.59
Band 4	5875	175	n	36.50	36.45	39.49	39.53
Band 3/4	5835	167	ax SU	38.11	38.08	39.08	38.78
Band 4	5875	175	ax SU	38.21	38.79	39.02	38.85
Band 3/4	5855	171	ac	76.56	76.58	76.90	76.80
	5855	171	ax SU	78.23	78.15	78.56	78.60

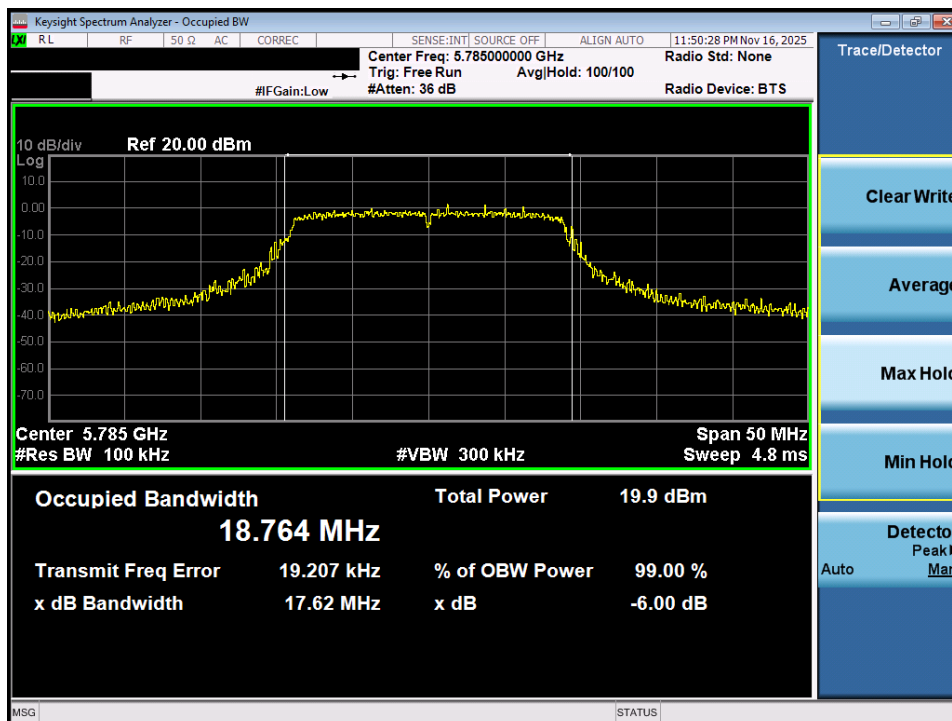
Table 7-4. Bands 3/4 Conducted 6dB Bandwidth & OBW Measurements MIMO

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.3.1 MIMO Antenna-1 6dB Bandwidth Measurements

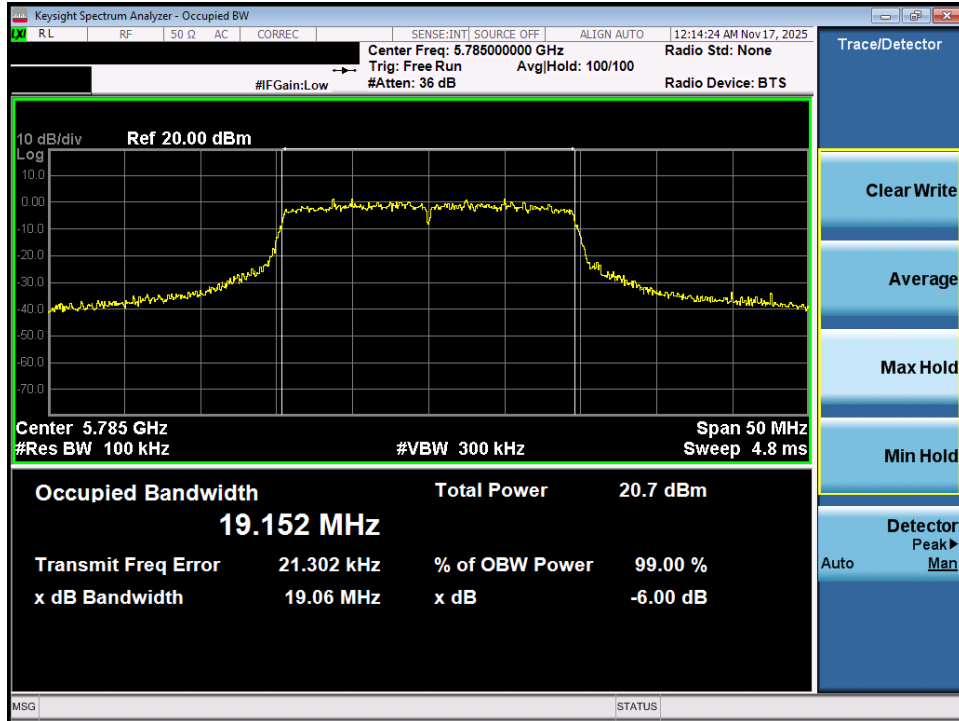


Plot 7-15. 6dB Bandwidth Plot MIMO ANT1 (802.11a (UNII Band 3) – Ch. 157)

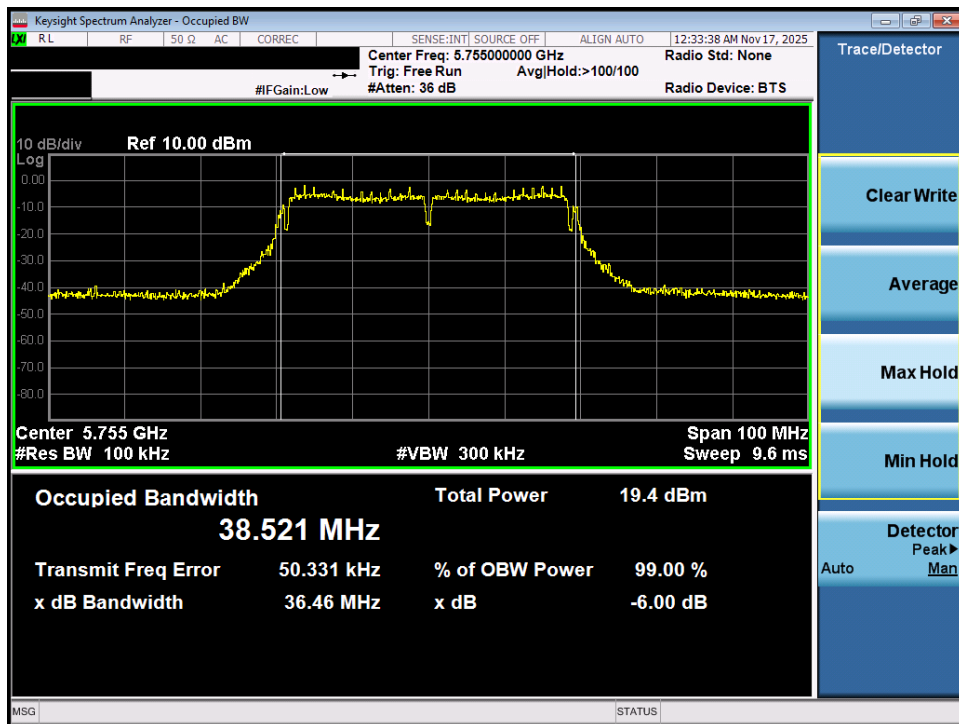


Plot 7-16. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-17. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

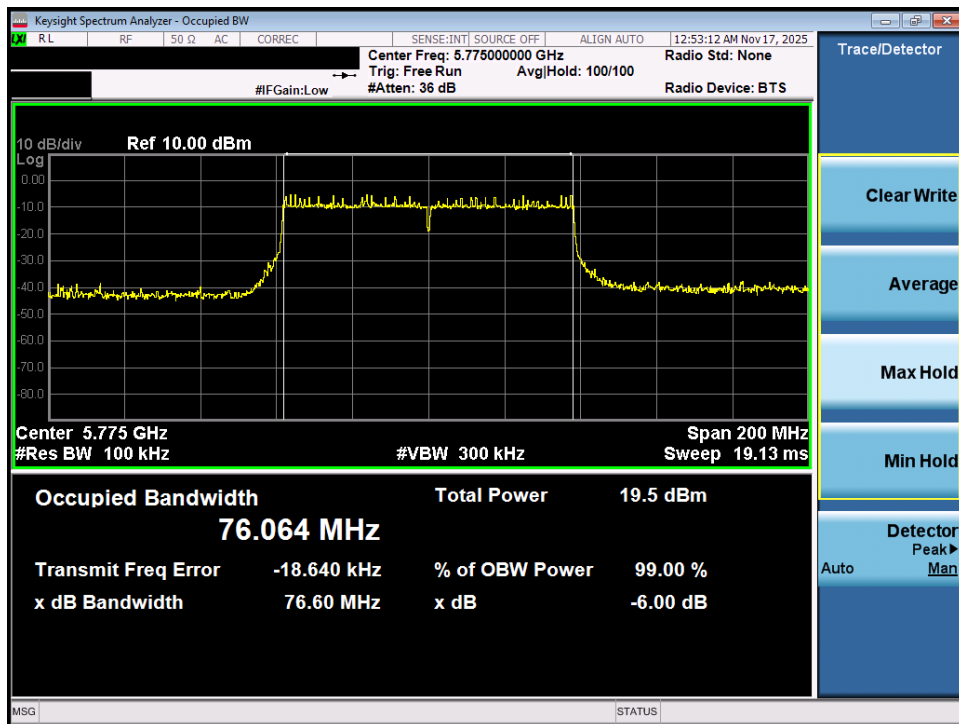


Plot 7-18. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 31 of 124

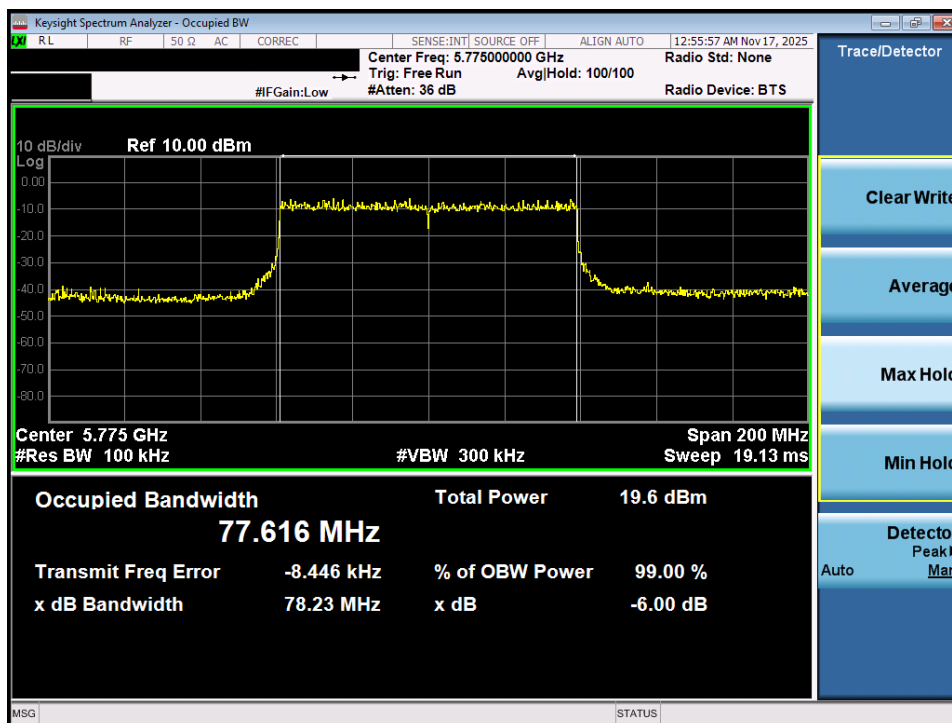


Plot 7-19. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

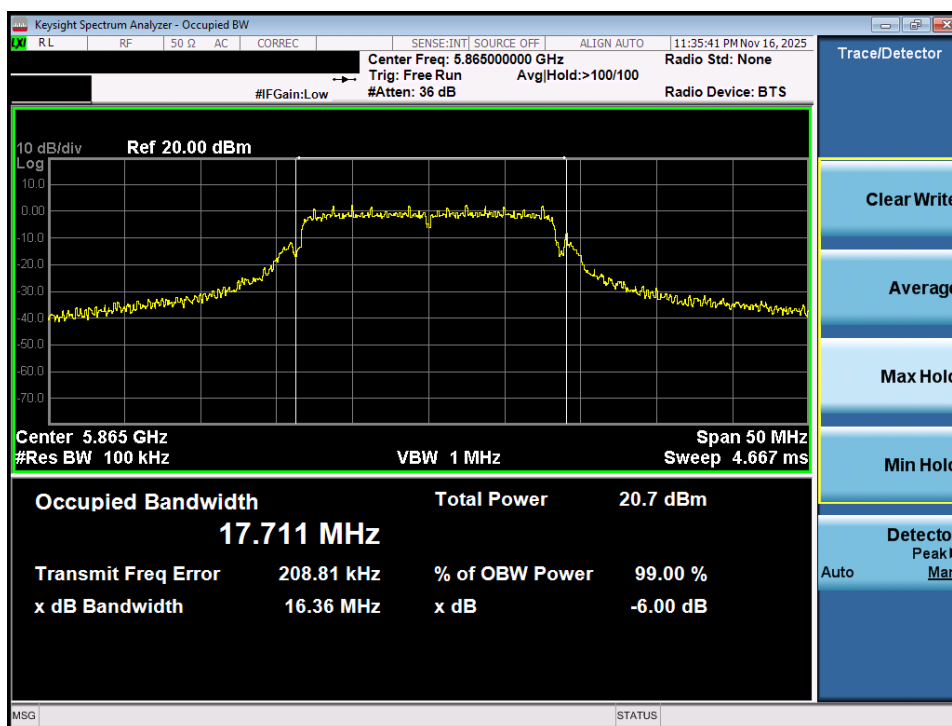


Plot 7-20. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 32 of 124

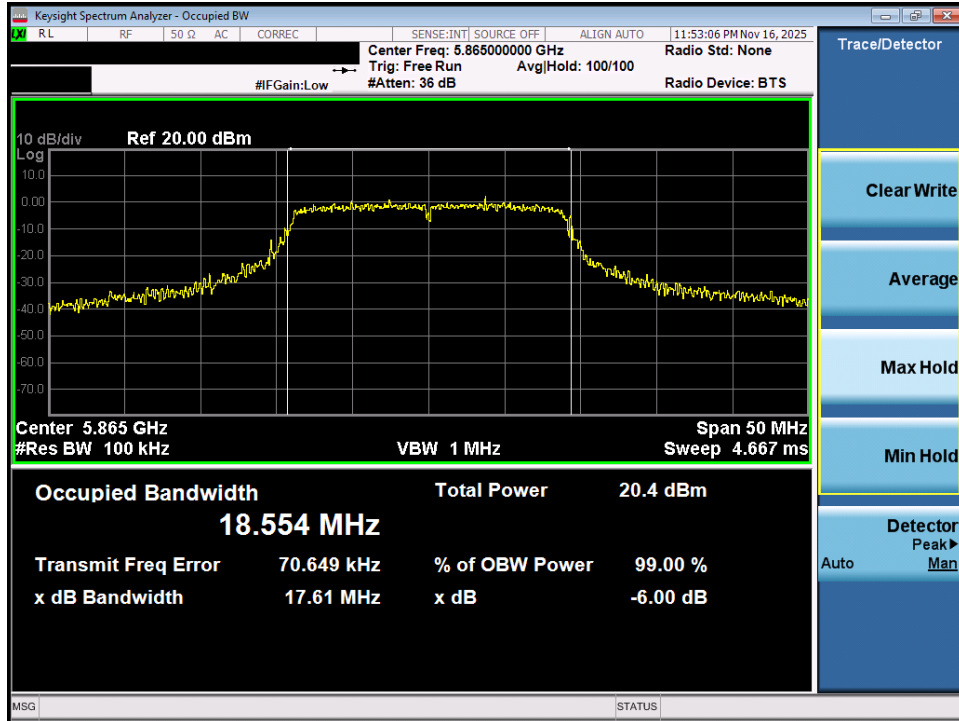


Plot 7-21. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

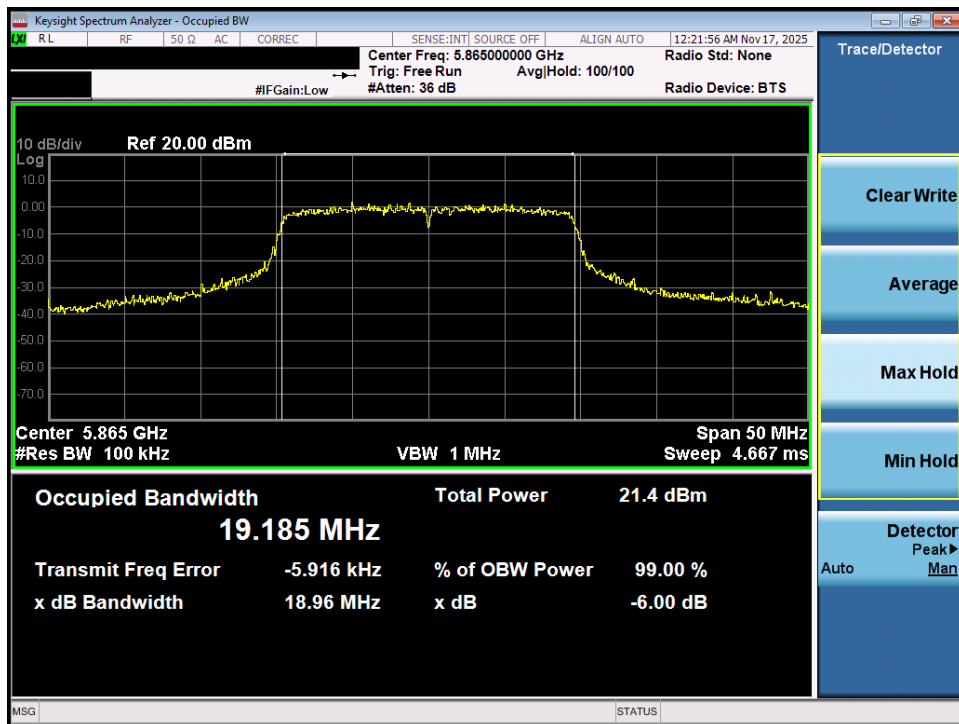


Plot 7-22. 6dB Bandwidth Plot MIMO ANT1 (802.11a (UNII Band 4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 33 of 124

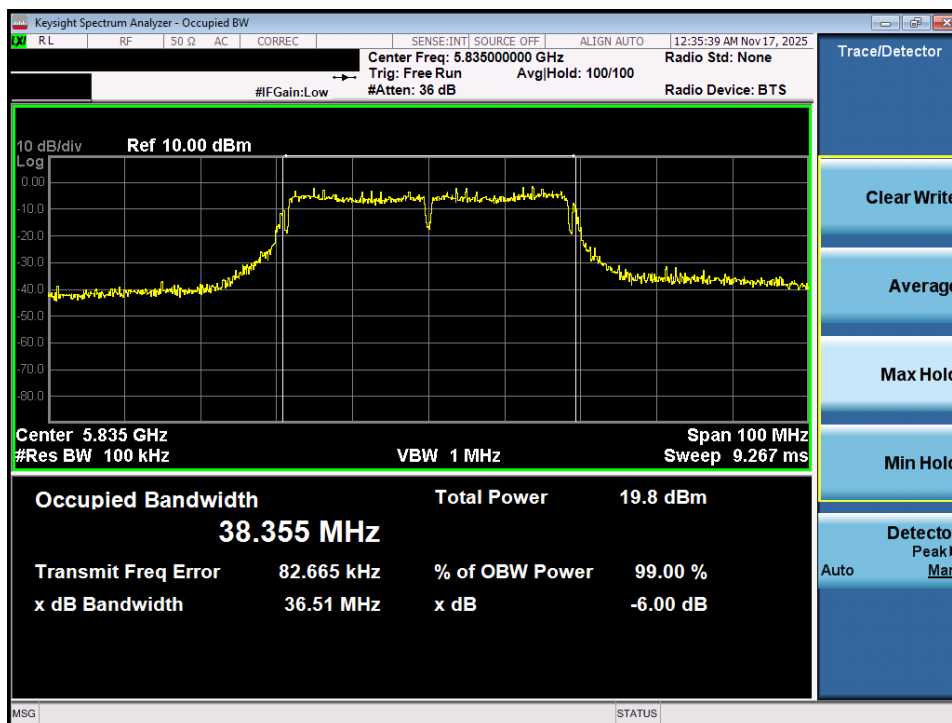


Plot 7-23. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

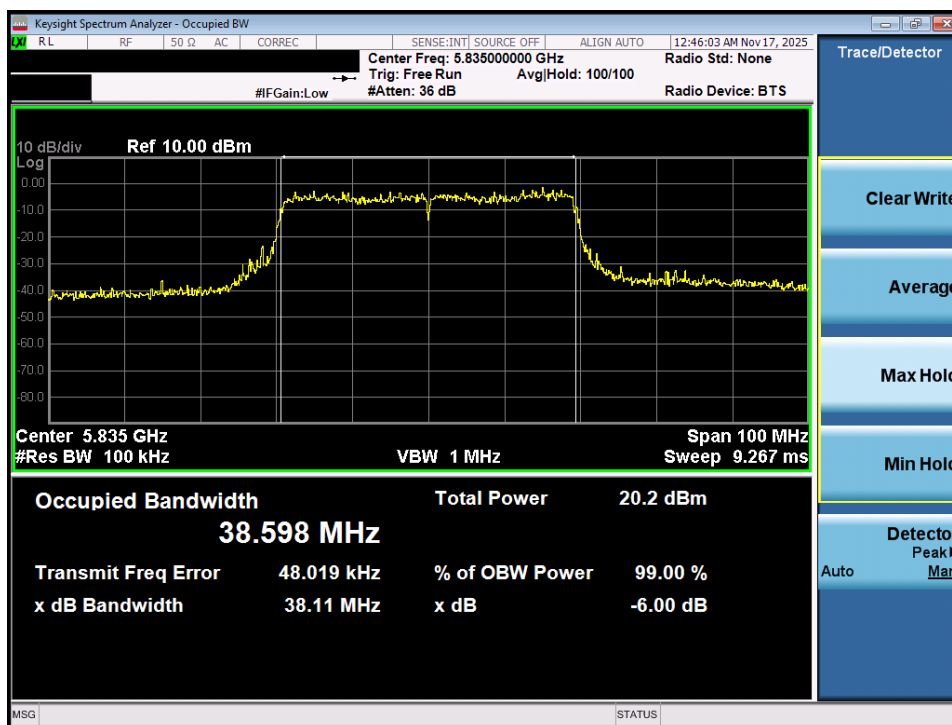


Plot 7-24. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 34 of 124

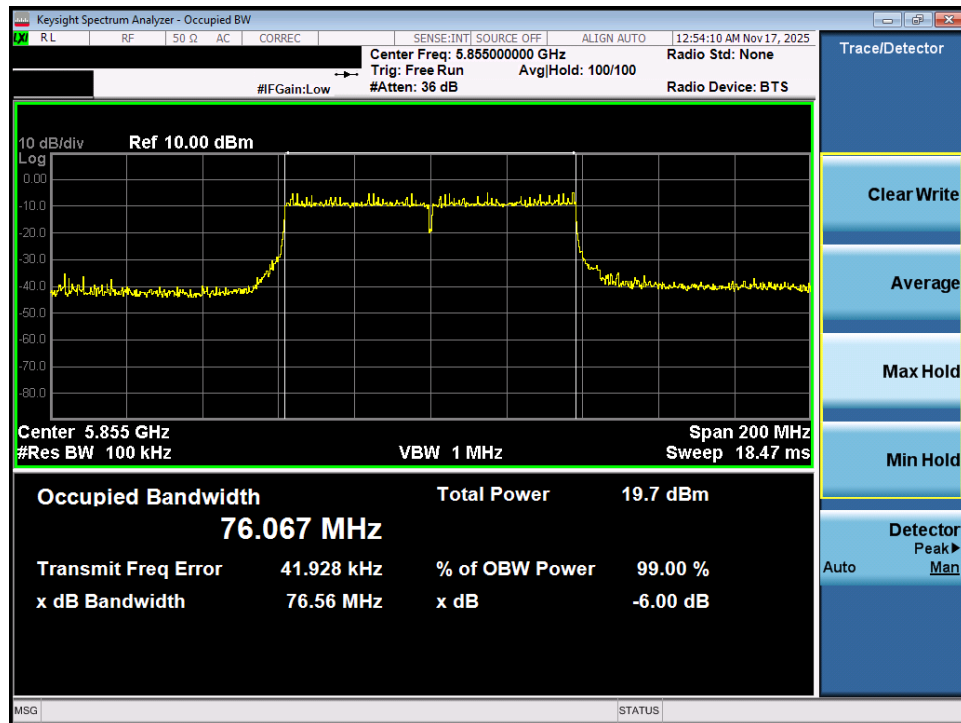


Plot 7-25. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

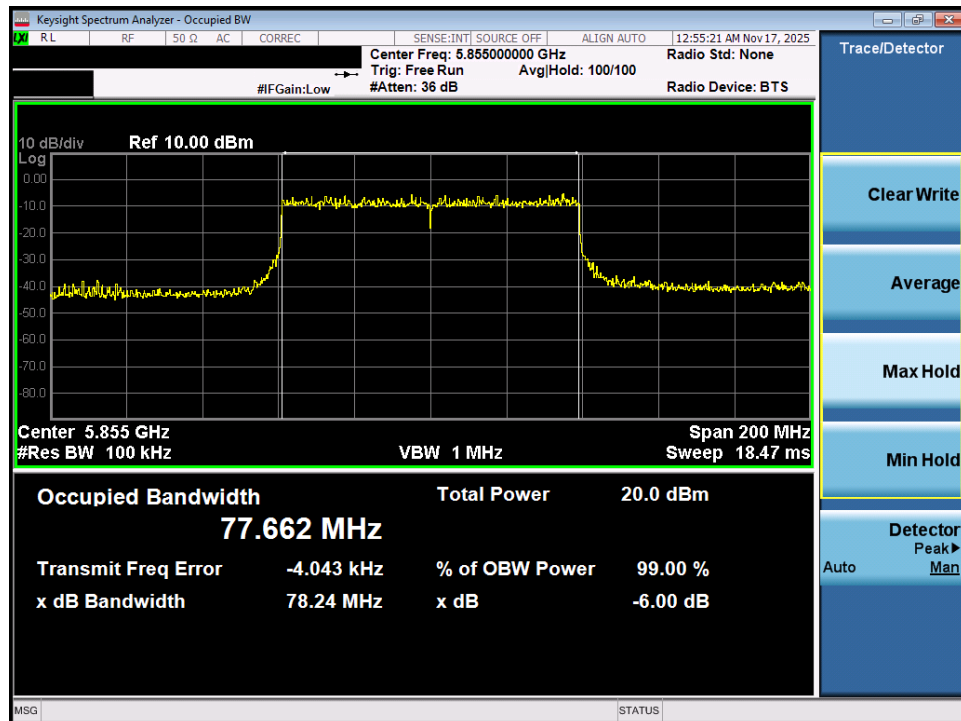


Plot 7-26. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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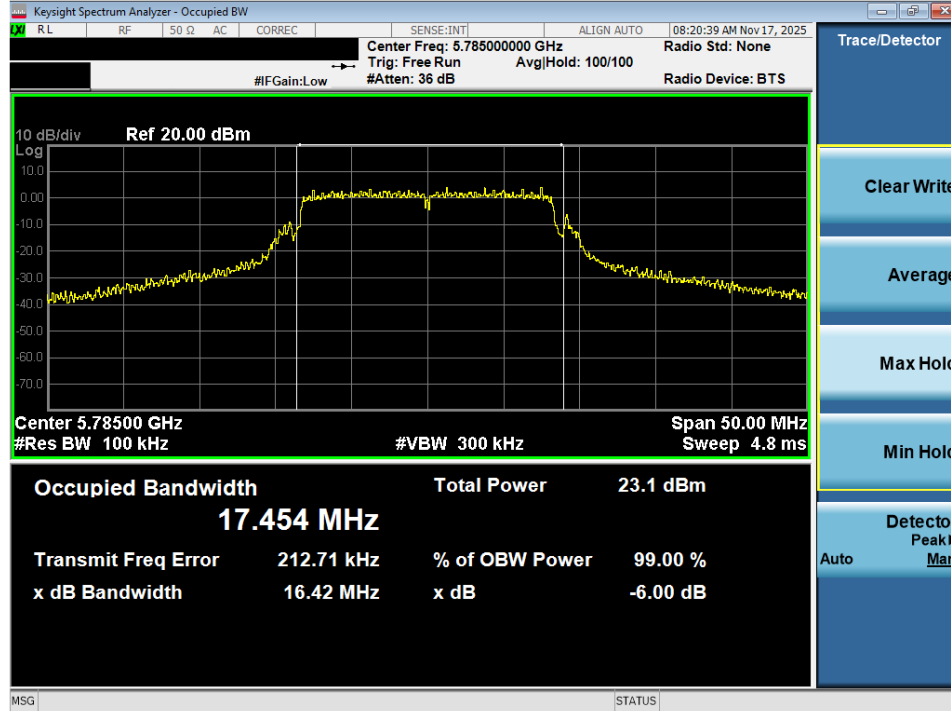
Plot 7-27. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)



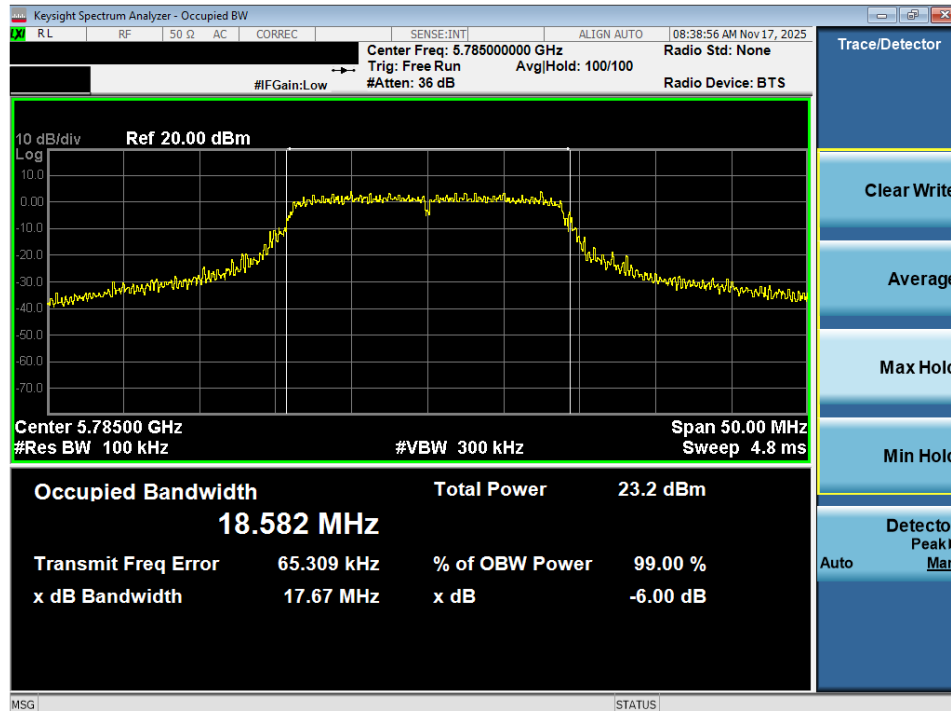
Plot 7-28. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 36 of 124

7.3.2 MIMO Antenna-2 6dB Bandwidth Measurements

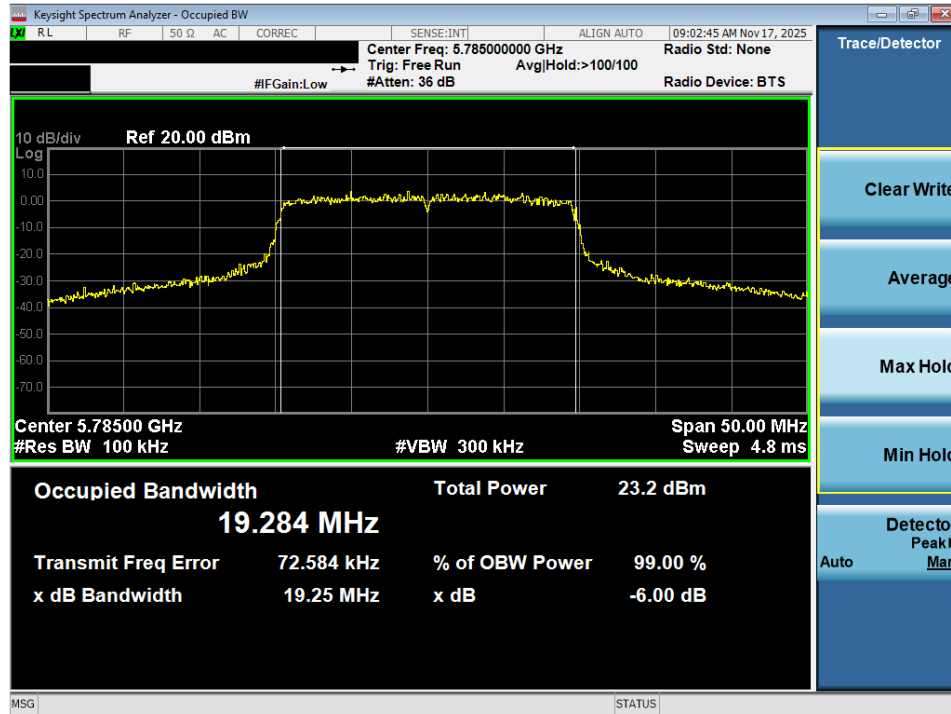


Plot 7-29. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3) – Ch. 157)

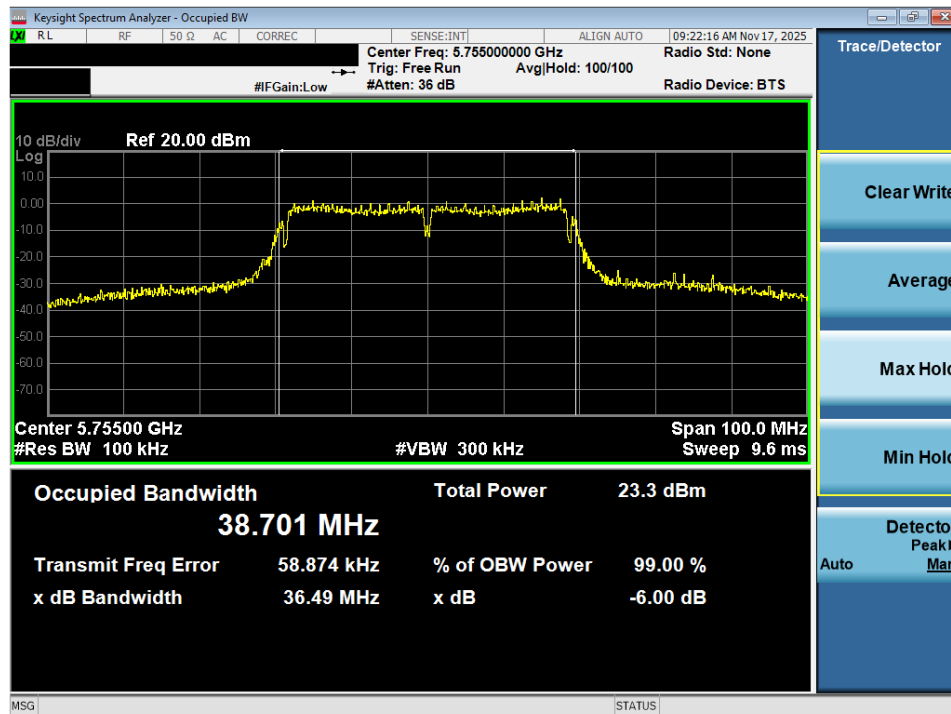


Plot 7-30. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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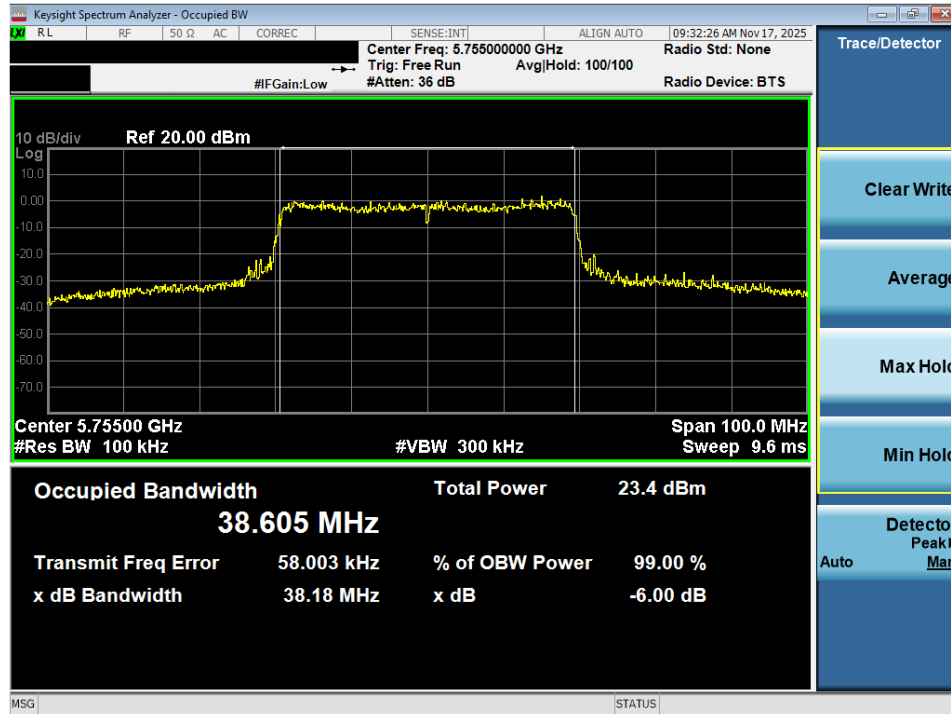


Plot 7-31. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

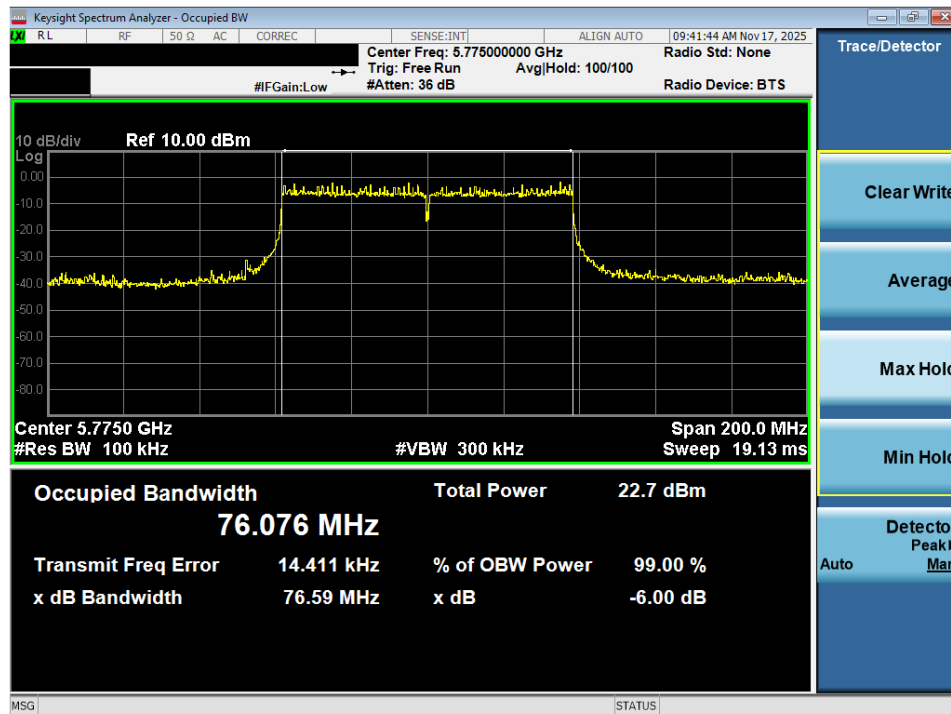


Plot 7-32. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 38 of 124

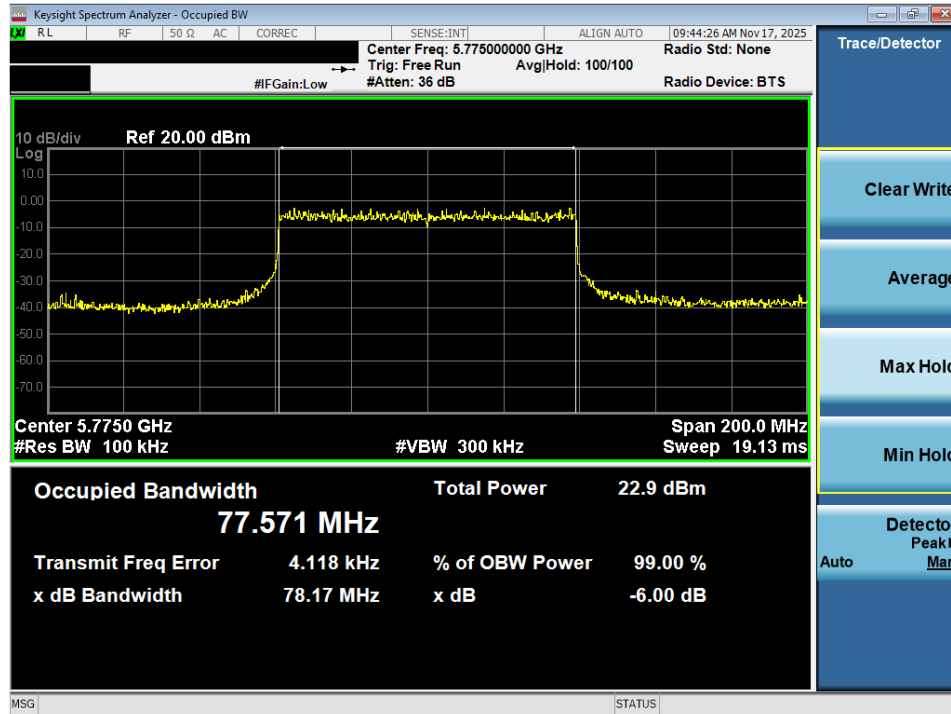


Plot 7-33. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

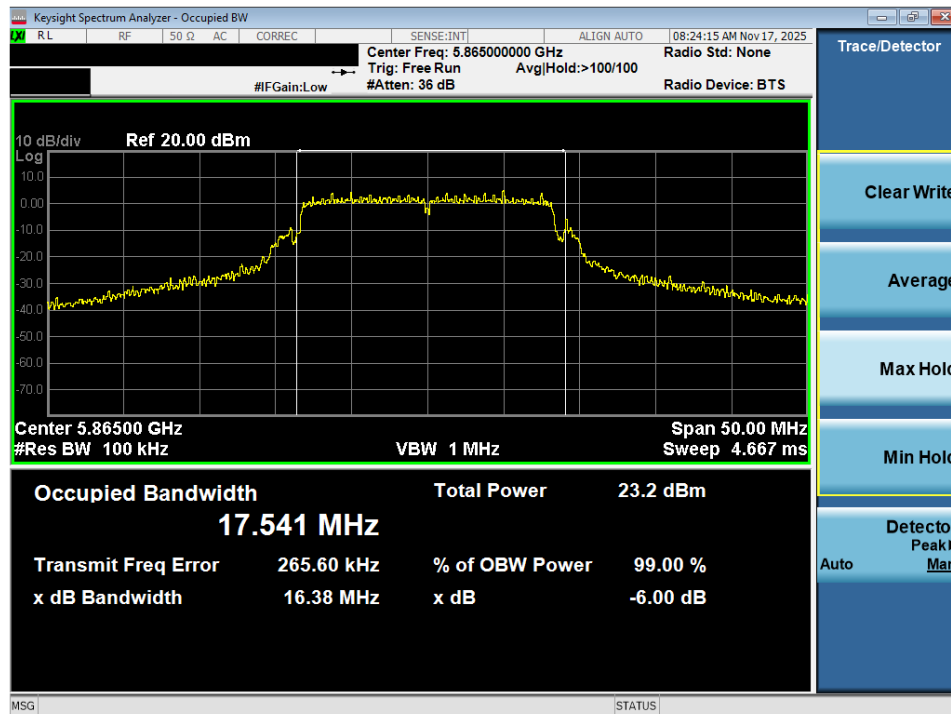


Plot 7-34. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 39 of 124

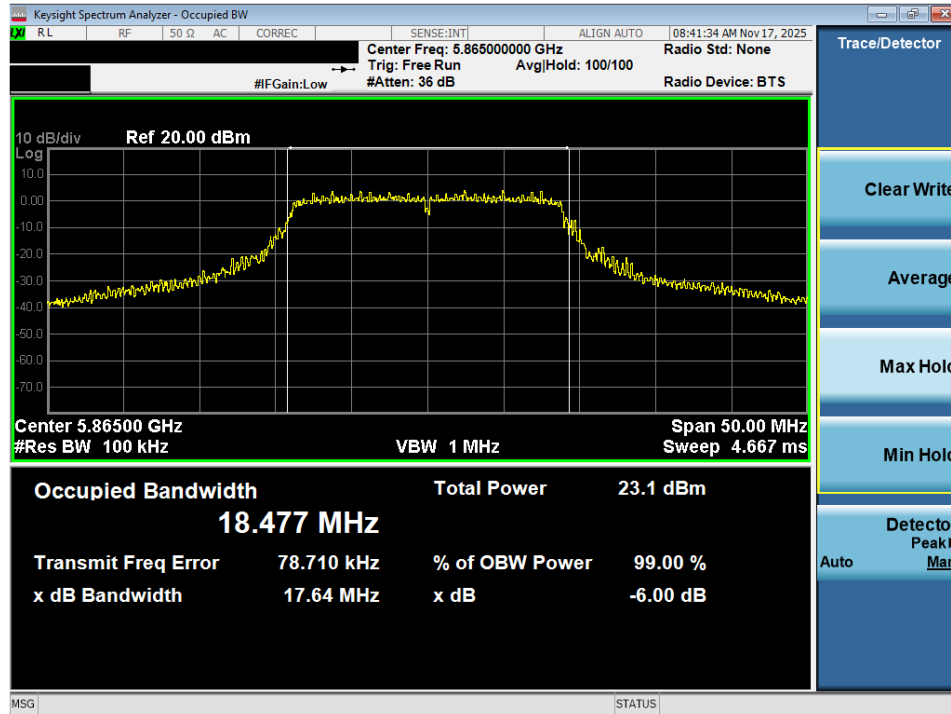


Plot 7-35. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

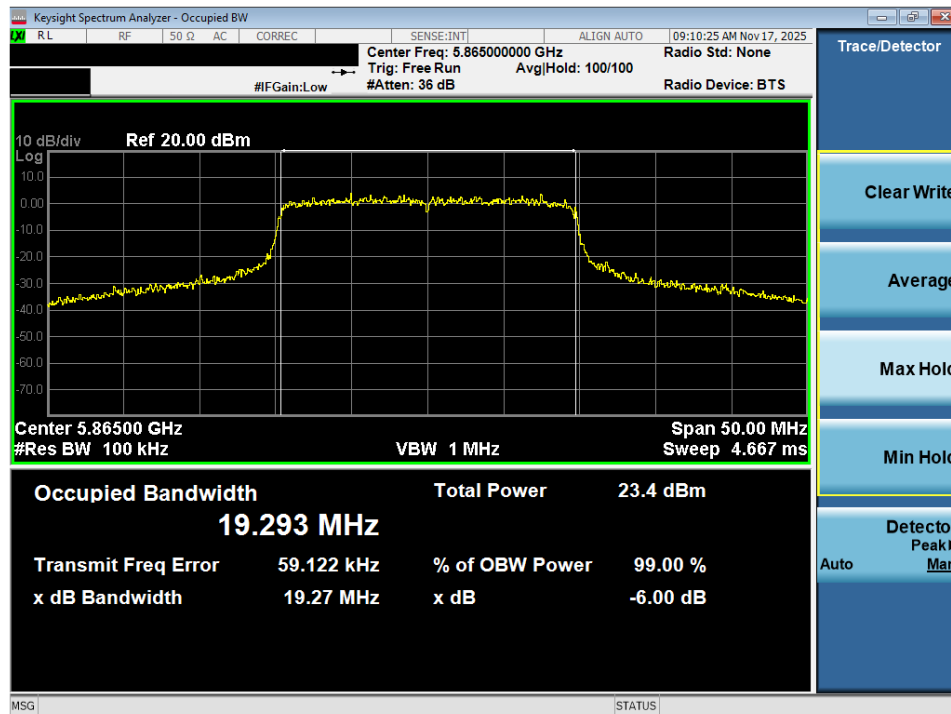


Plot 7-36. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3/4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 40 of 124

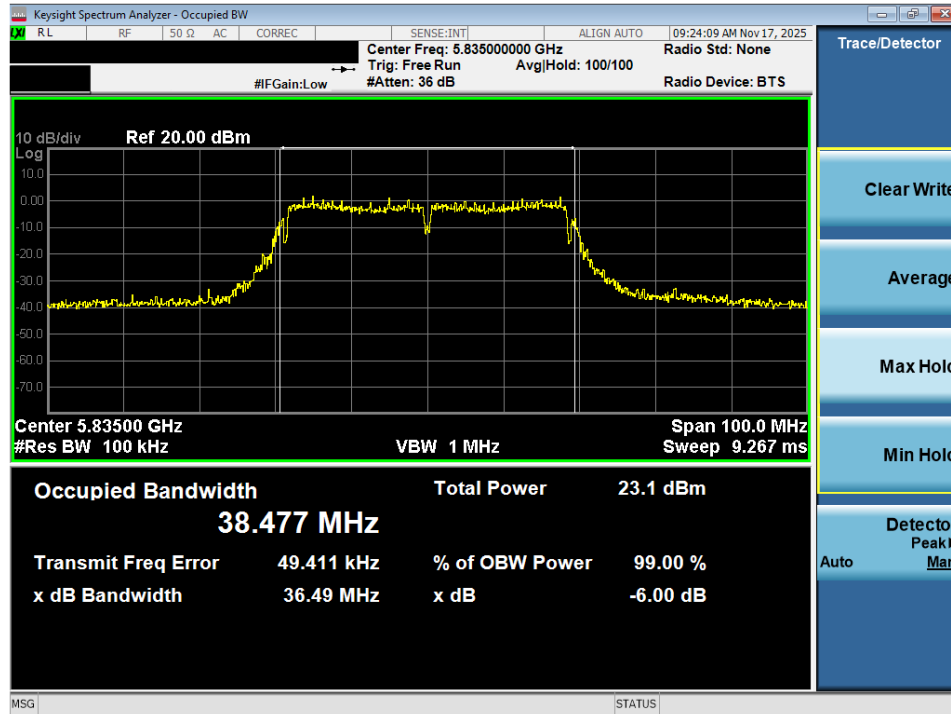


Plot 7-37. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3/4) – Ch. 173)

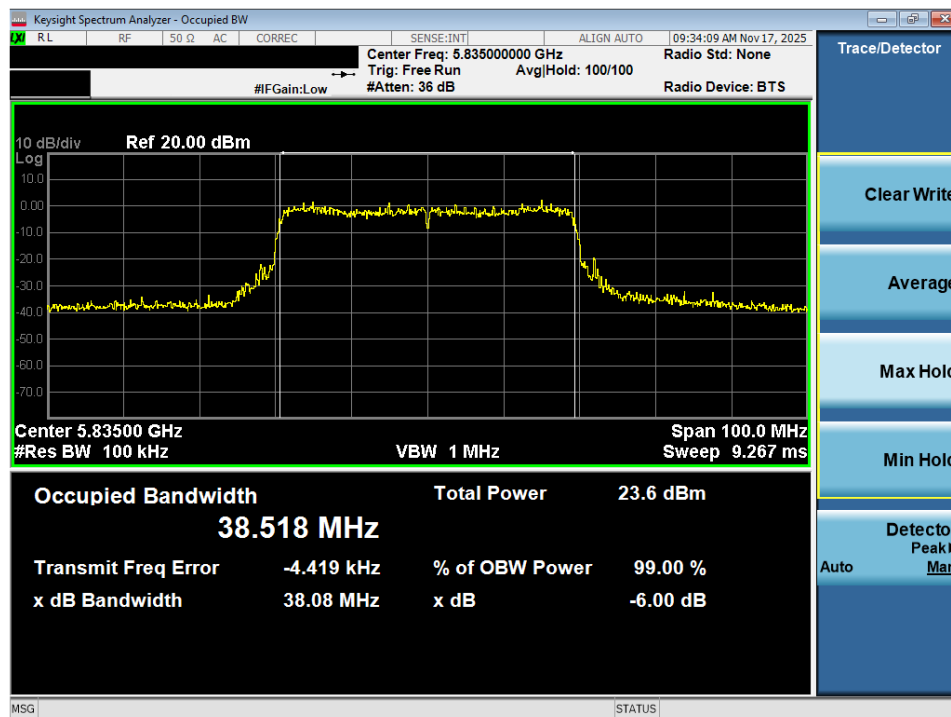


Plot 7-38. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3/4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 41 of 124

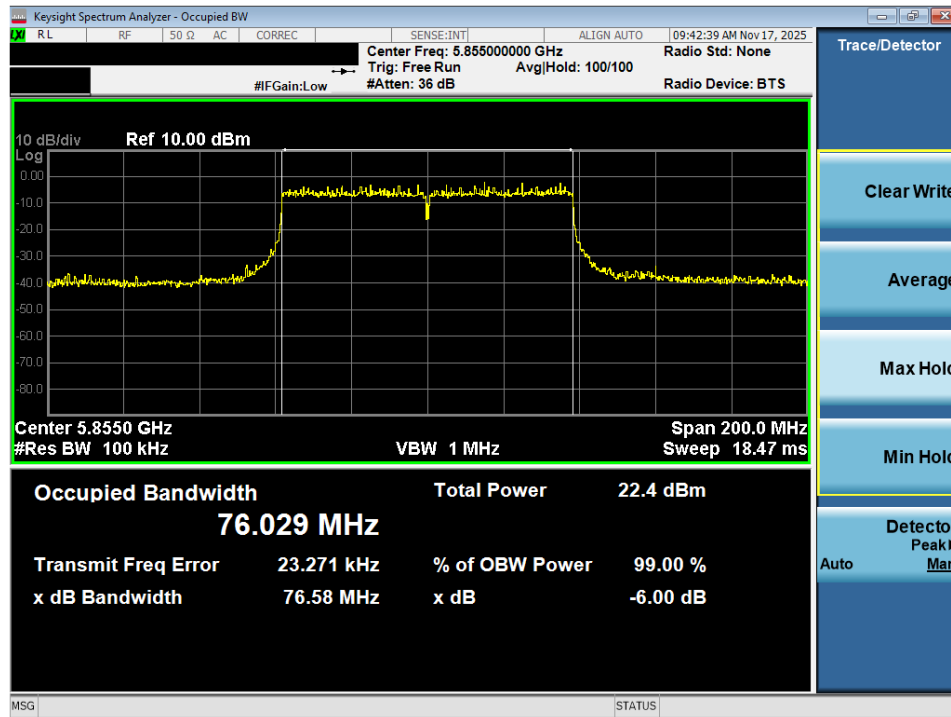


Plot 7-39. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

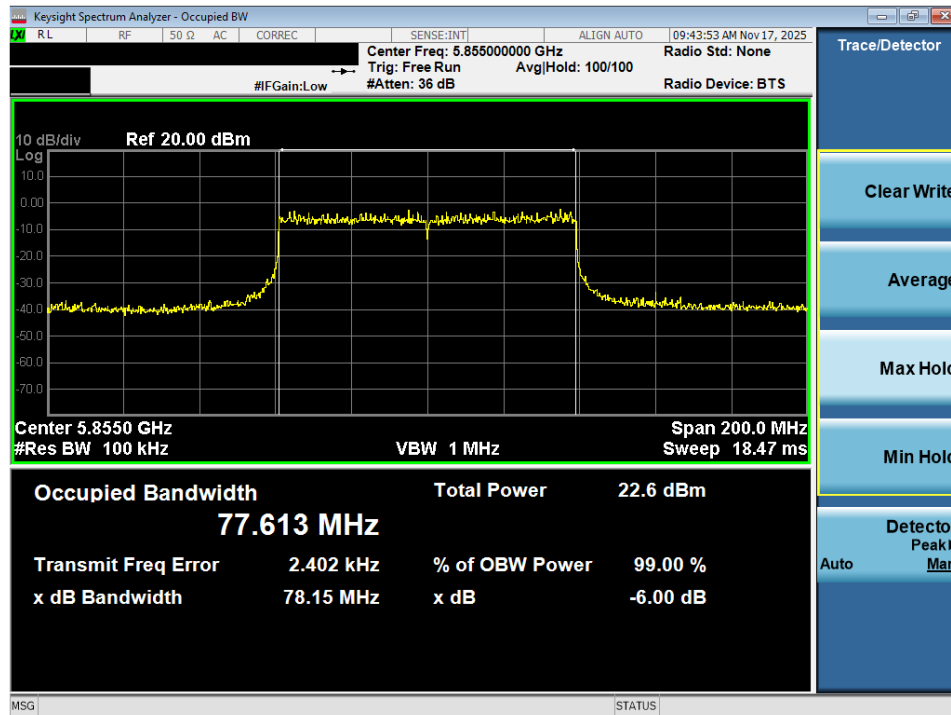


Plot 7-40. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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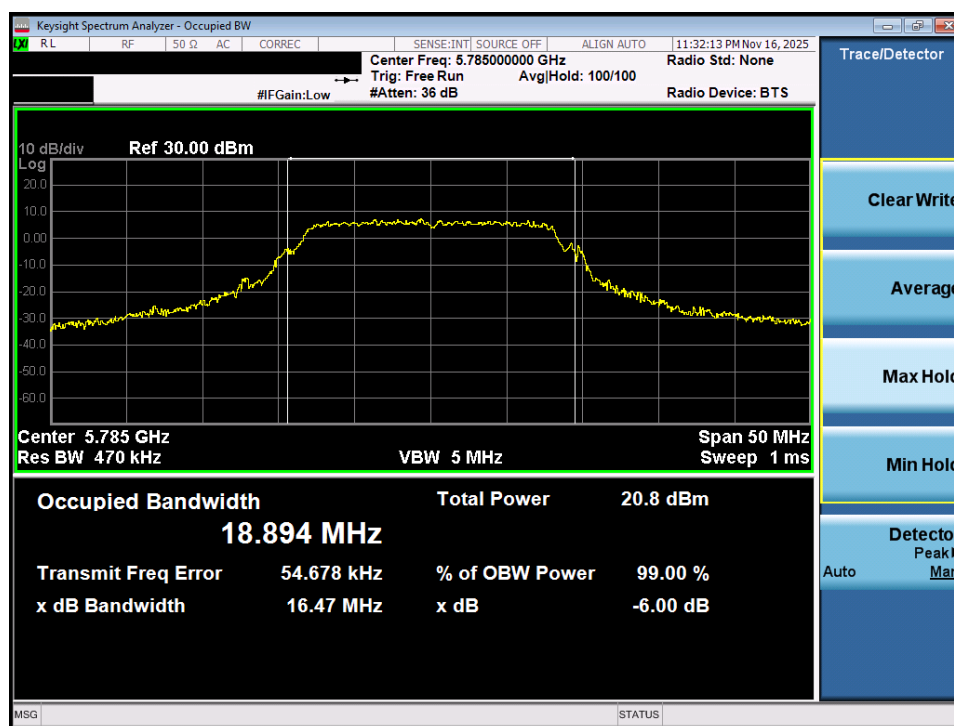
Plot 7-41. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)



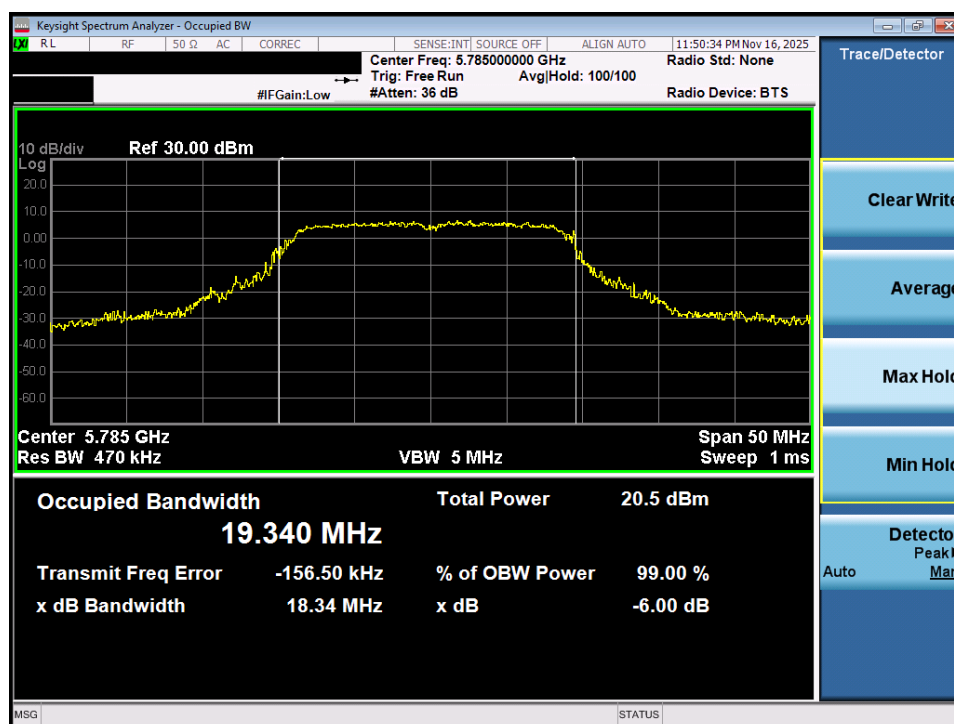
Plot 7-42. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.3.3 MIMO Antenna-1 OBW Measurements

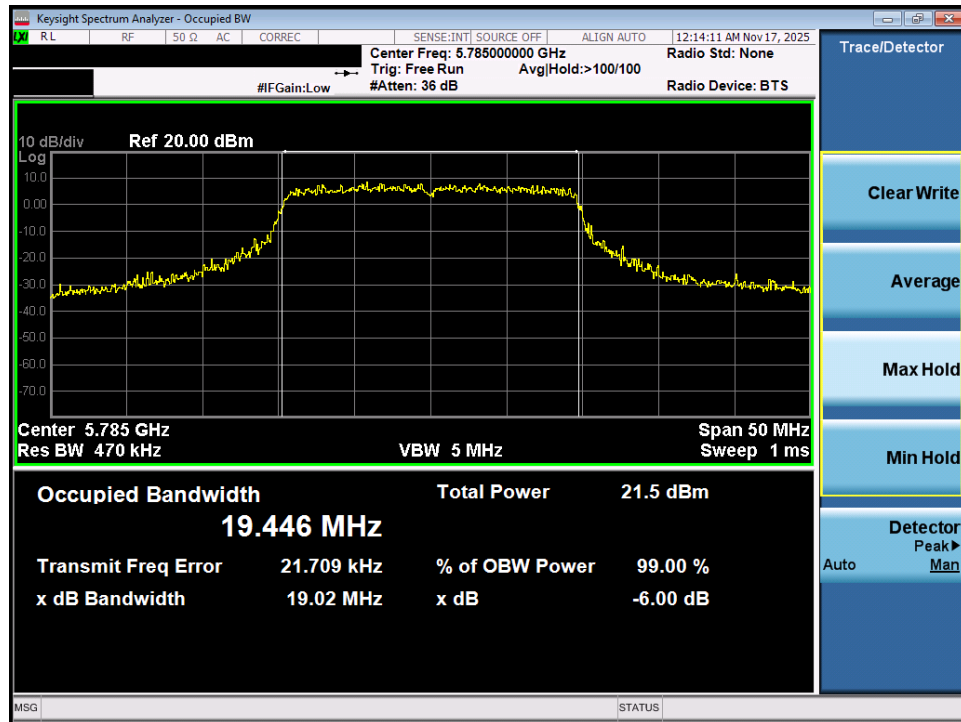


Plot 7-43. OBW Plot MIMO ANT1 (802.11a (UNII Band 3) – Ch. 157)

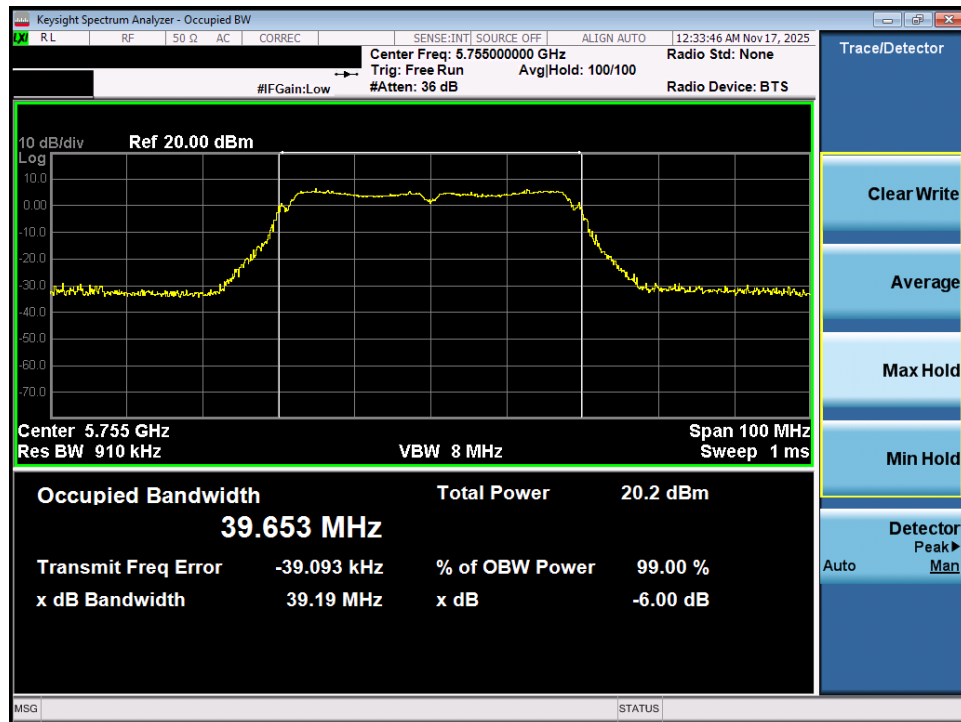


Plot 7-44. OBW Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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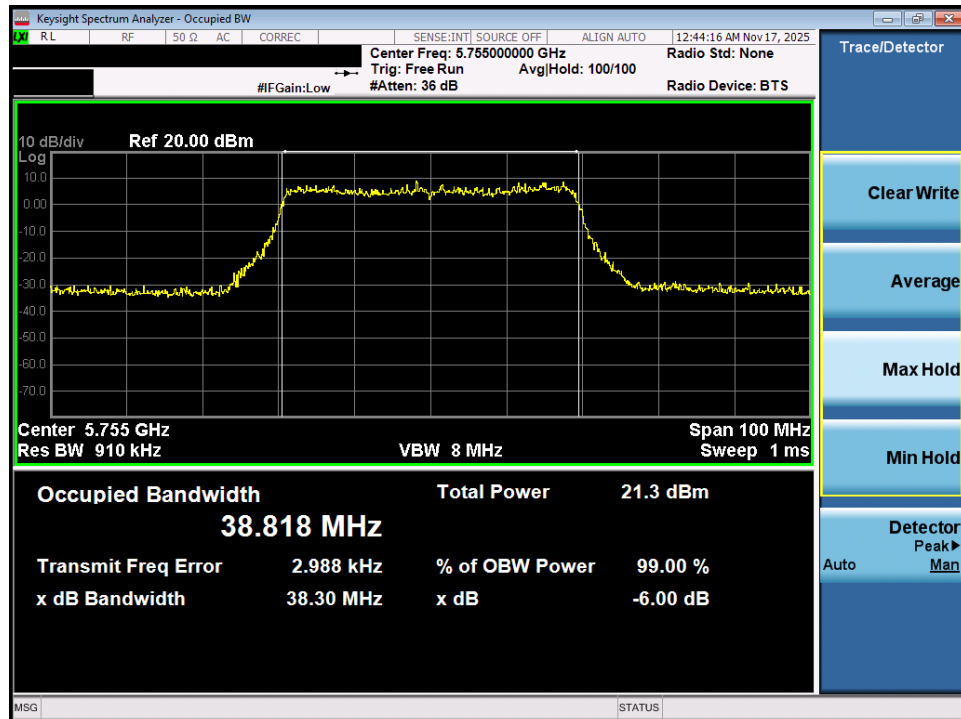


Plot 7-45. OBW Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

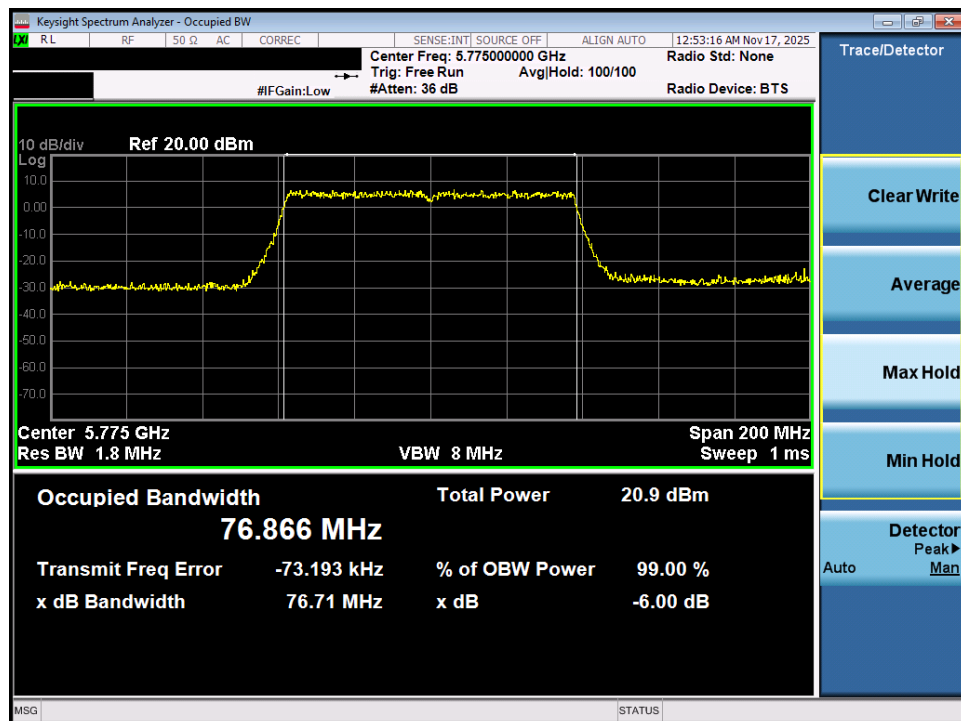


Plot 7-46. OBW Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 45 of 124

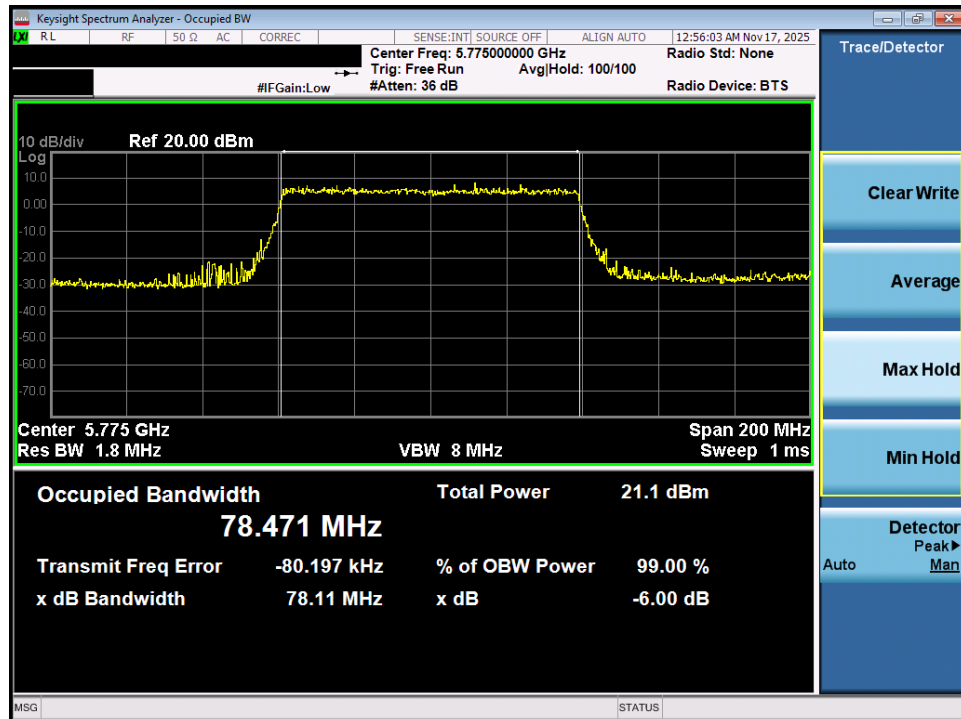


Plot 7-47. OBW Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

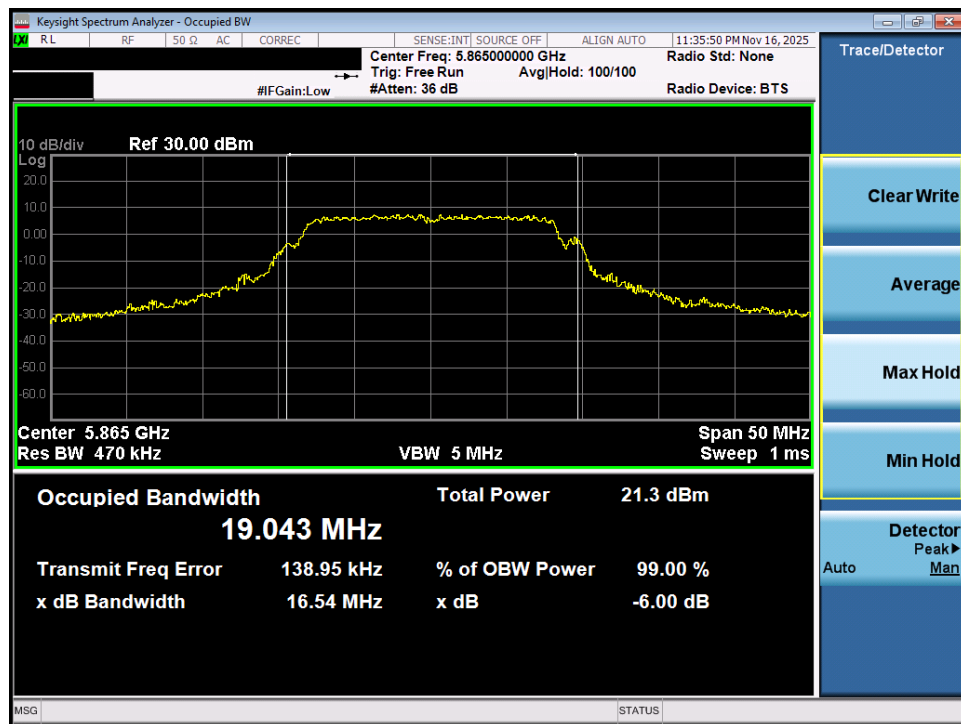


Plot 7-48. OBW Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 46 of 124

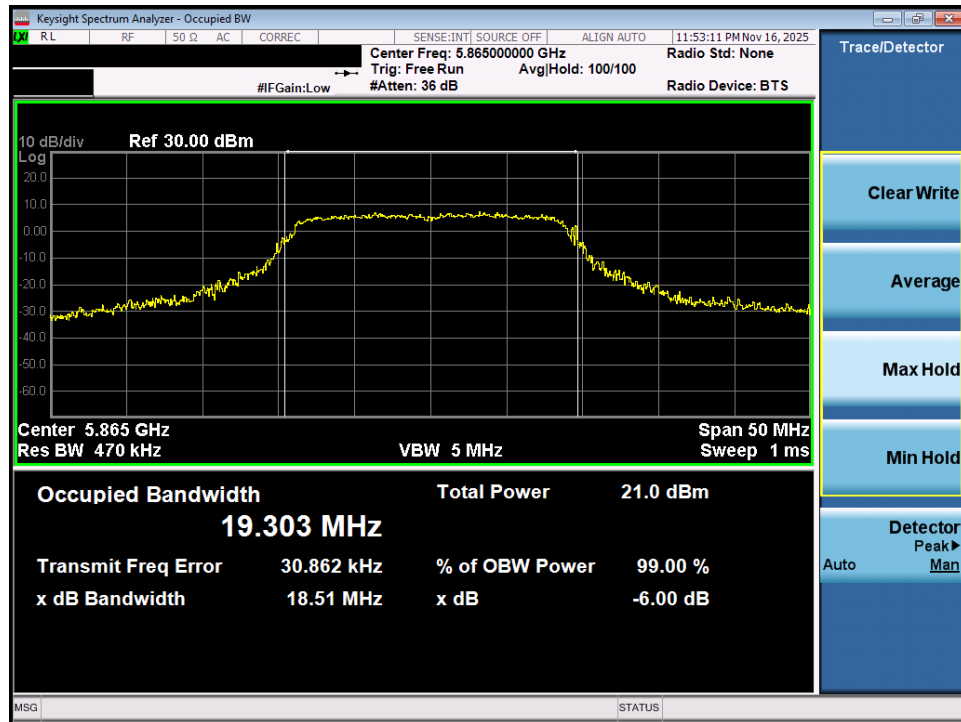


Plot 7-49. OBW Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

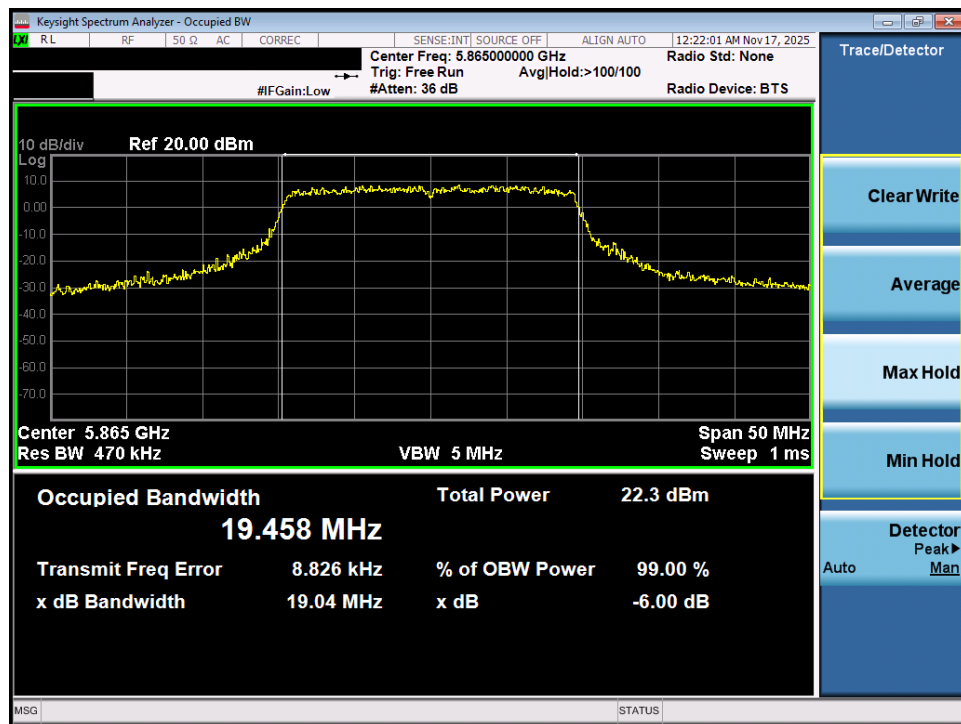


Plot 7-50. OBW Plot MIMO ANT1 (802.11a (UNII Band 4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 47 of 124

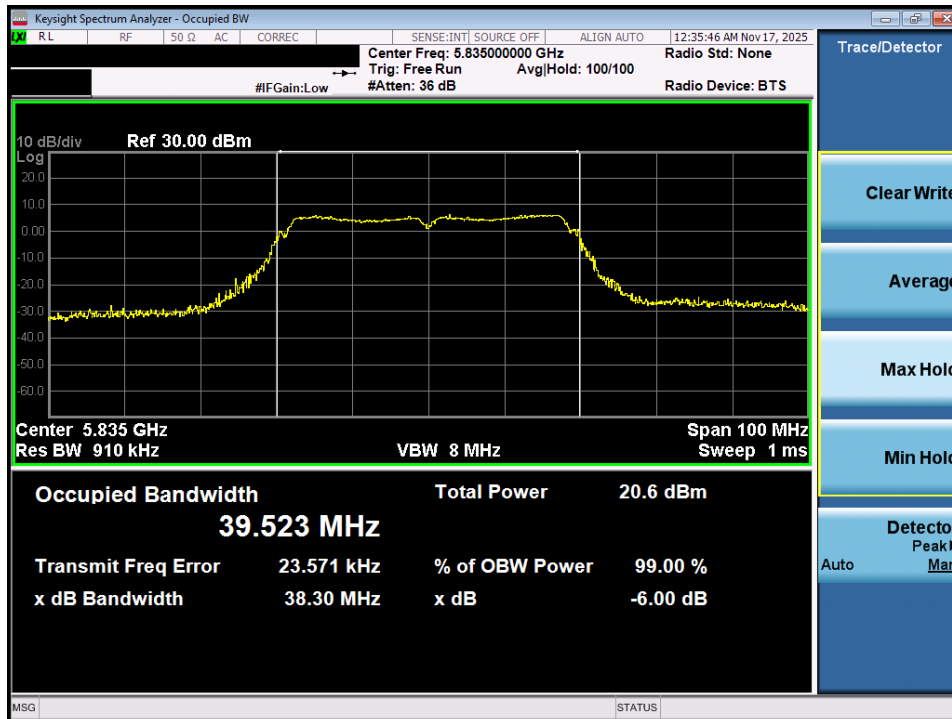


Plot 7-51. OBW Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

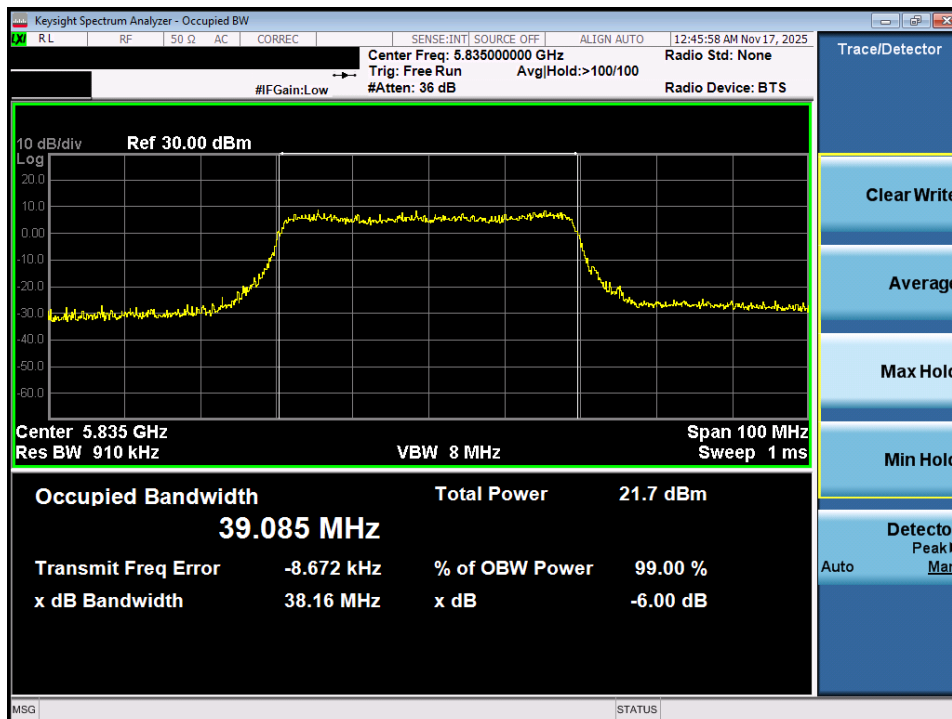


Plot 7-52. OBW Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 48 of 124

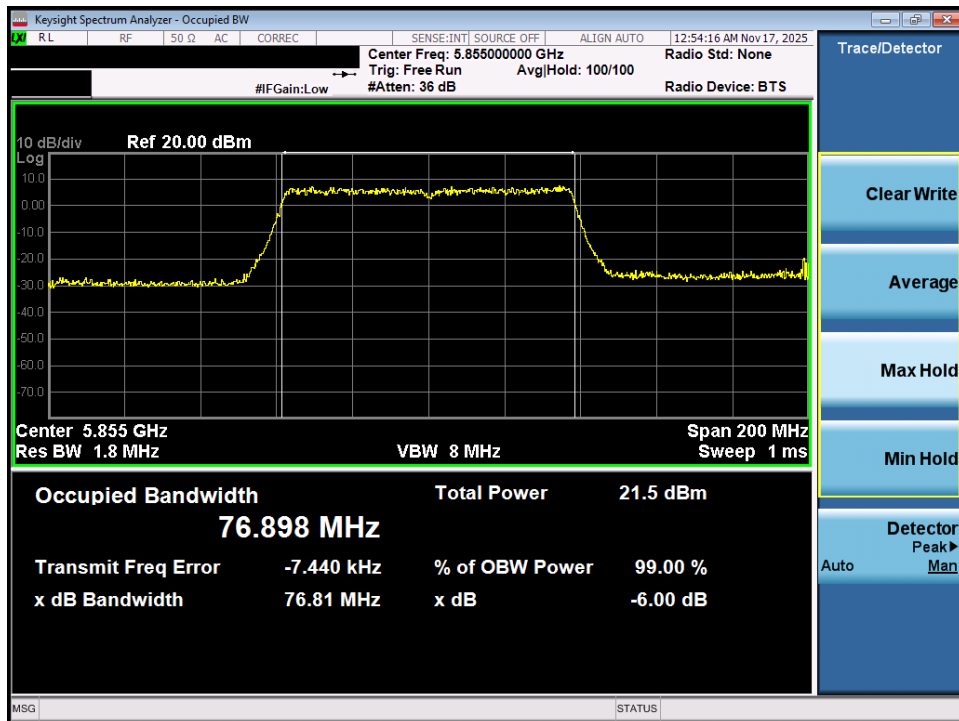


Plot 7-53. OBW Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

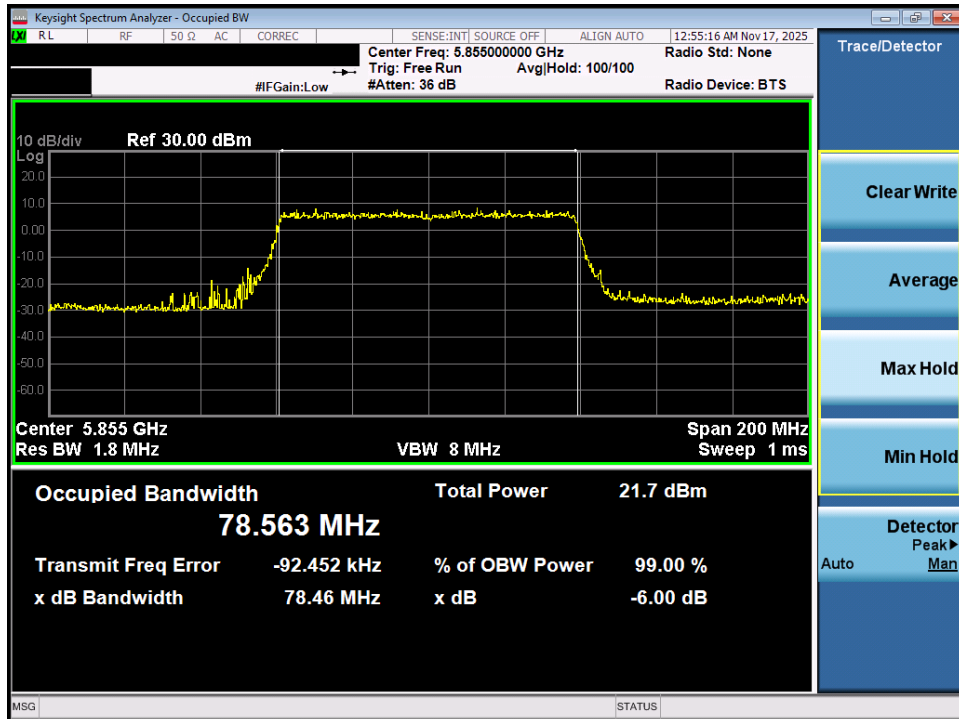


Plot 7-54. OBW Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 49 of 124



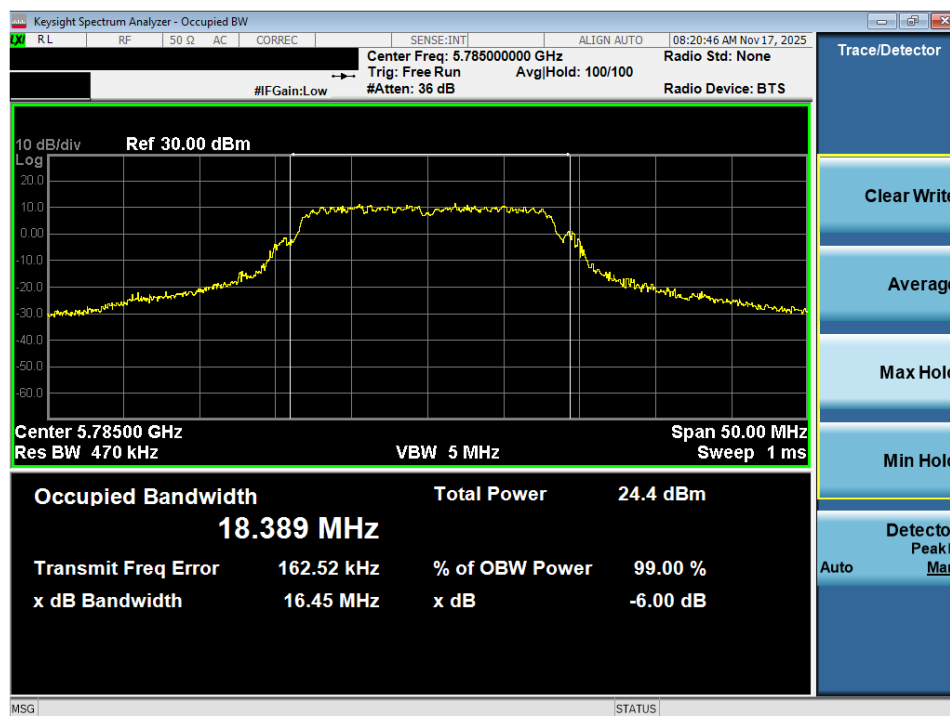
Plot 7-55. OBW Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)



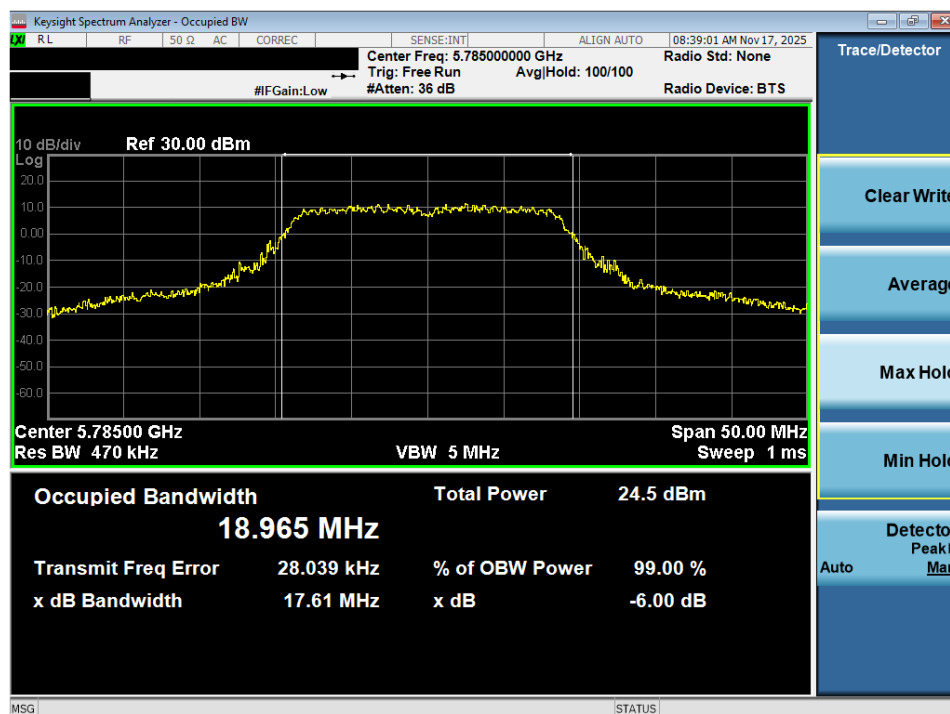
Plot 7-56. OBW Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 50 of 124

7.3.4 MIMO Antenna-2 OBW Measurements

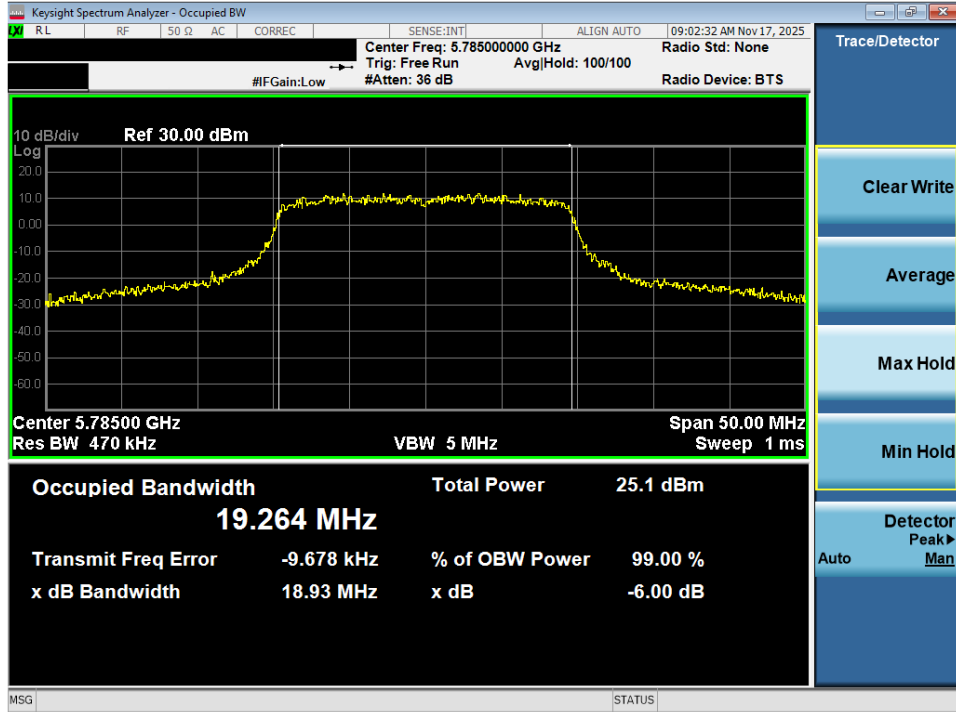


Plot 7-57. OBW Plot MIMO ANT2 (802.11a (UNII Band 3) – Ch. 157)

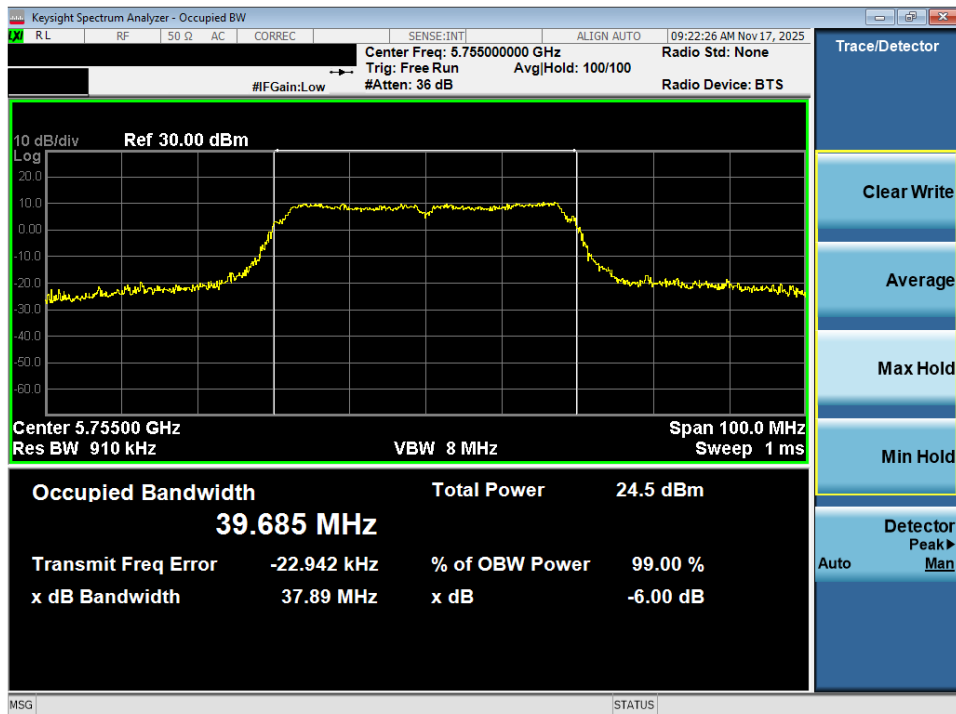


Plot 7-58. OBW Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 51 of 124

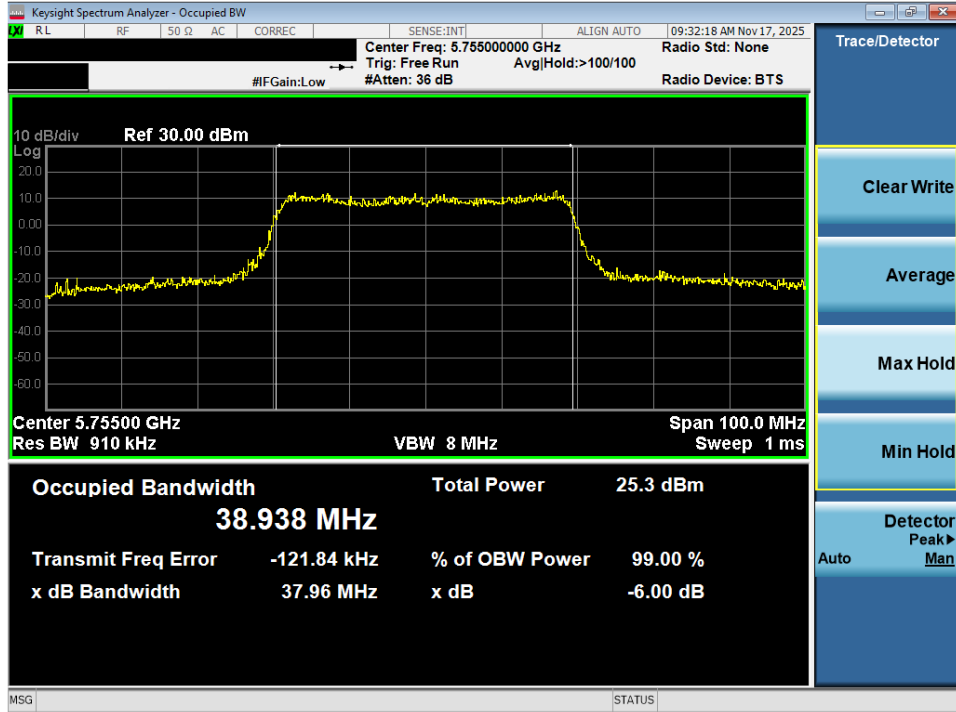


Plot 7-59. OBW Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

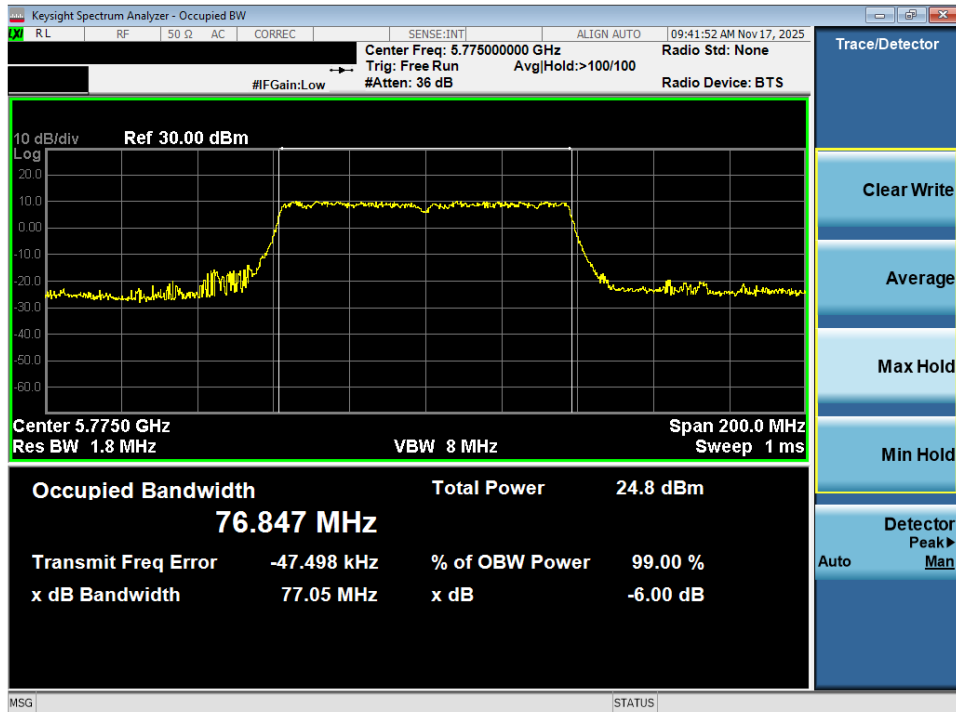


Plot 7-60. OBW Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 52 of 124

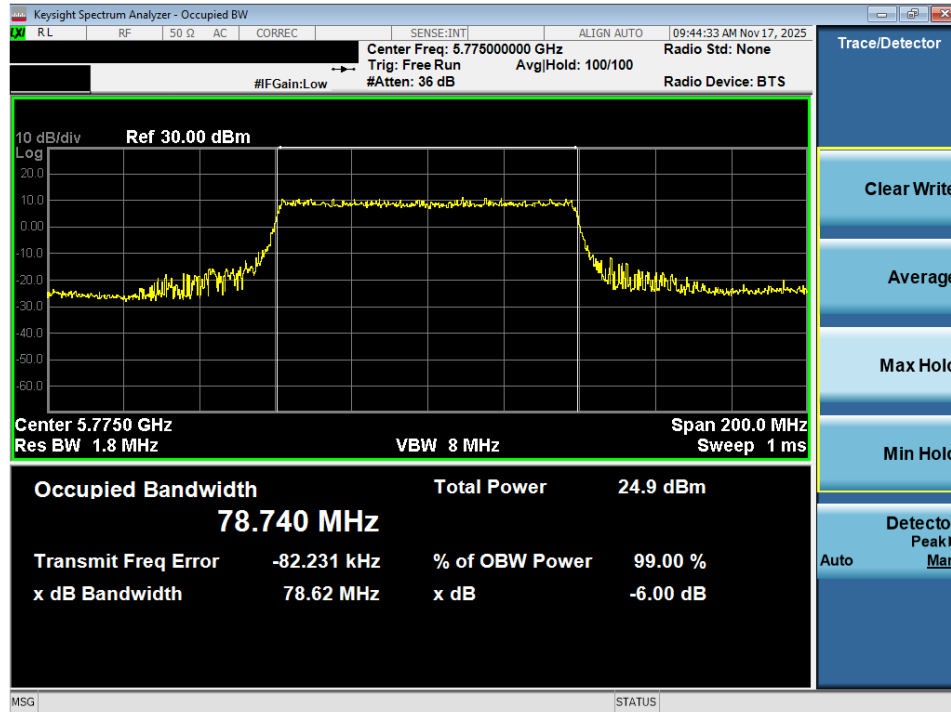


Plot 7-61. OBW Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

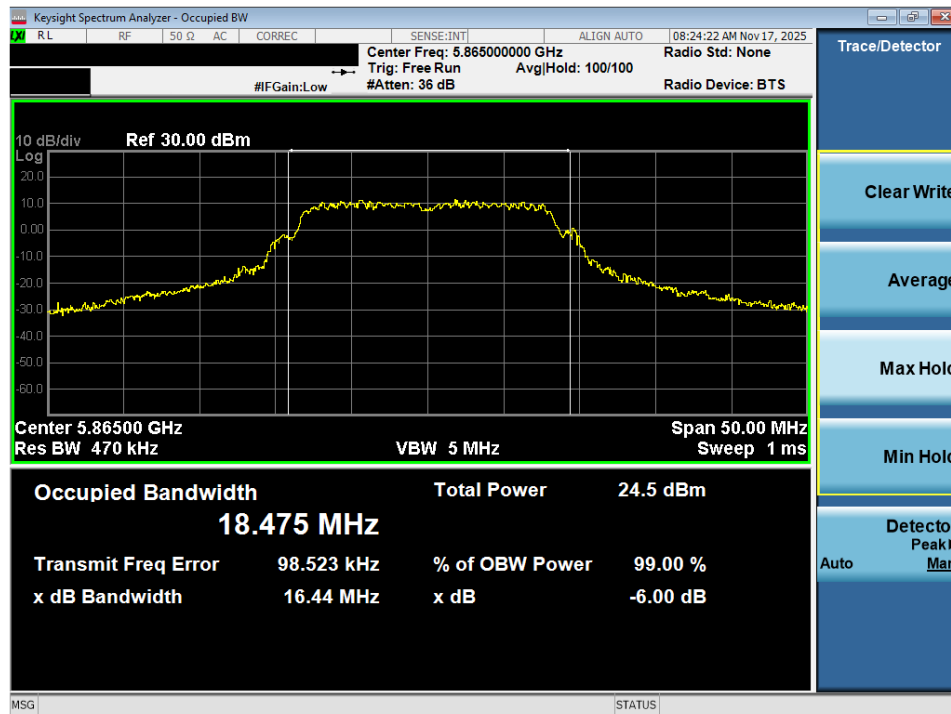


Plot 7-62. OBW Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 53 of 124

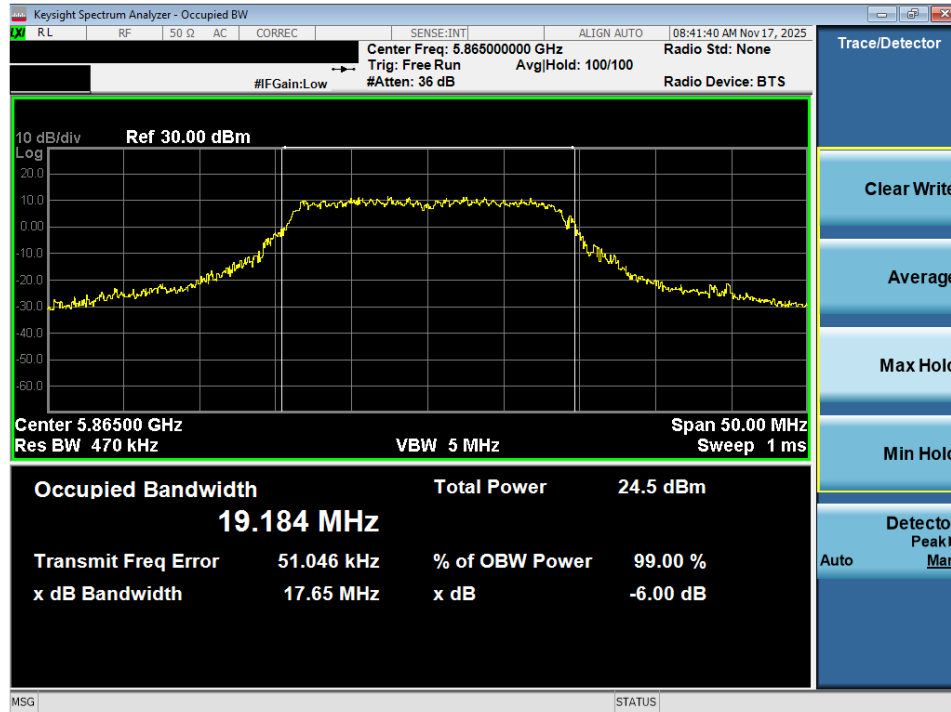


Plot 7-63. OBW Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

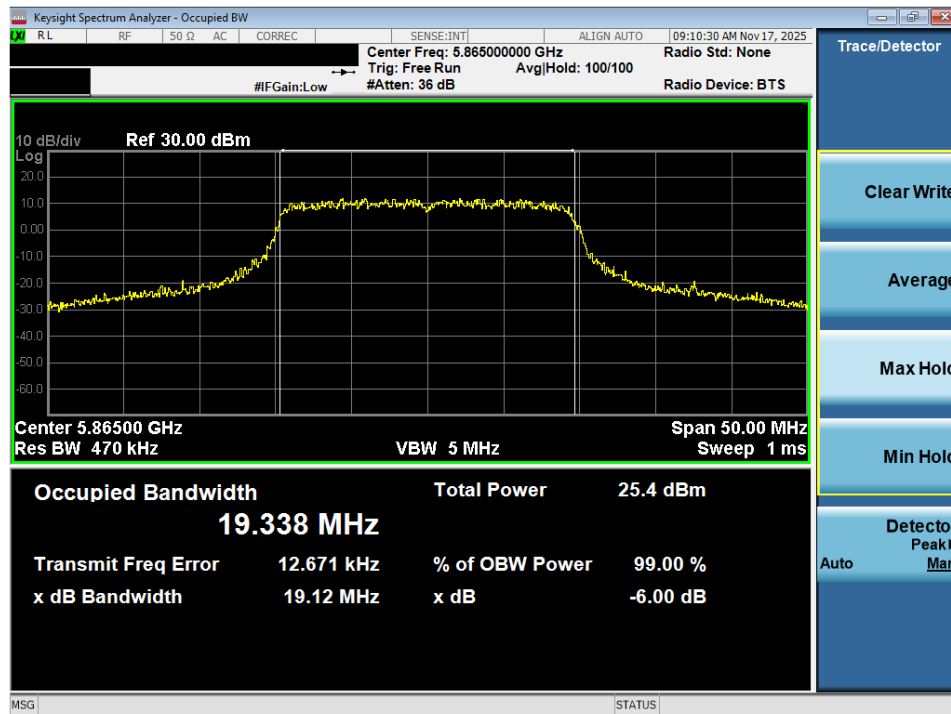


Plot 7-64. OBW Plot MIMO ANT2 (802.11a (UNII Band 3/4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 54 of 124

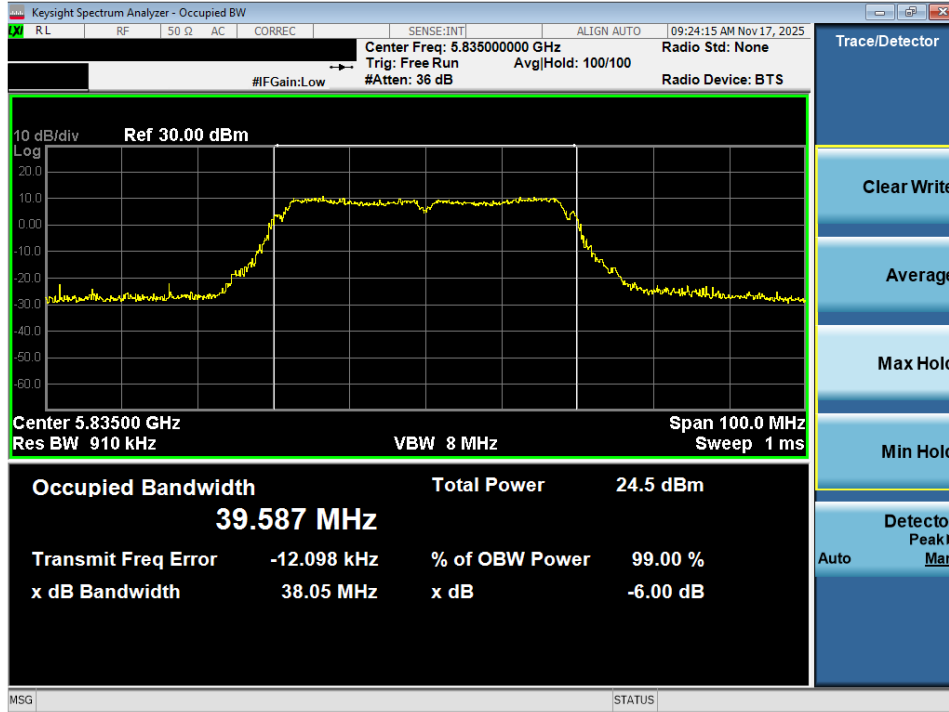


Plot 7-65. OBW Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3/4) – Ch. 173)

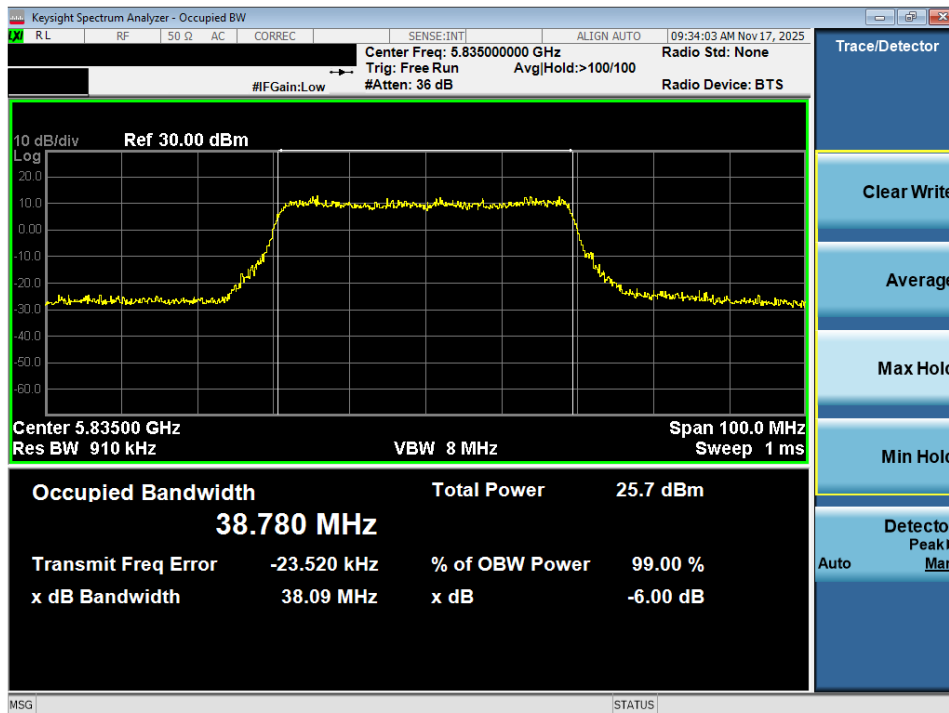


Plot 7-66. OBW Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3/4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 55 of 124

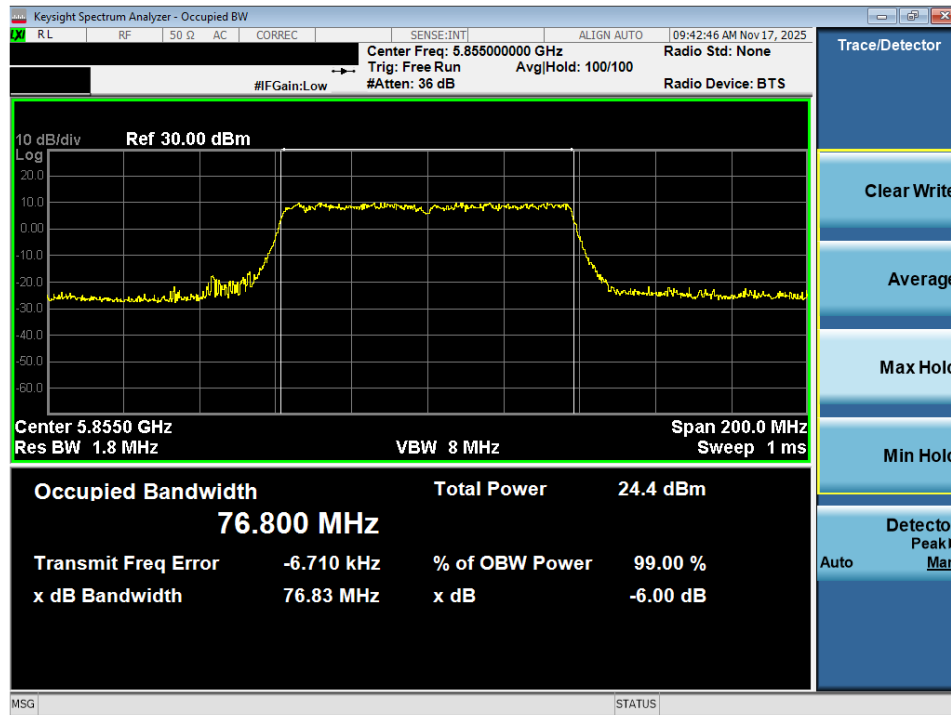


Plot 7-67. OBW Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

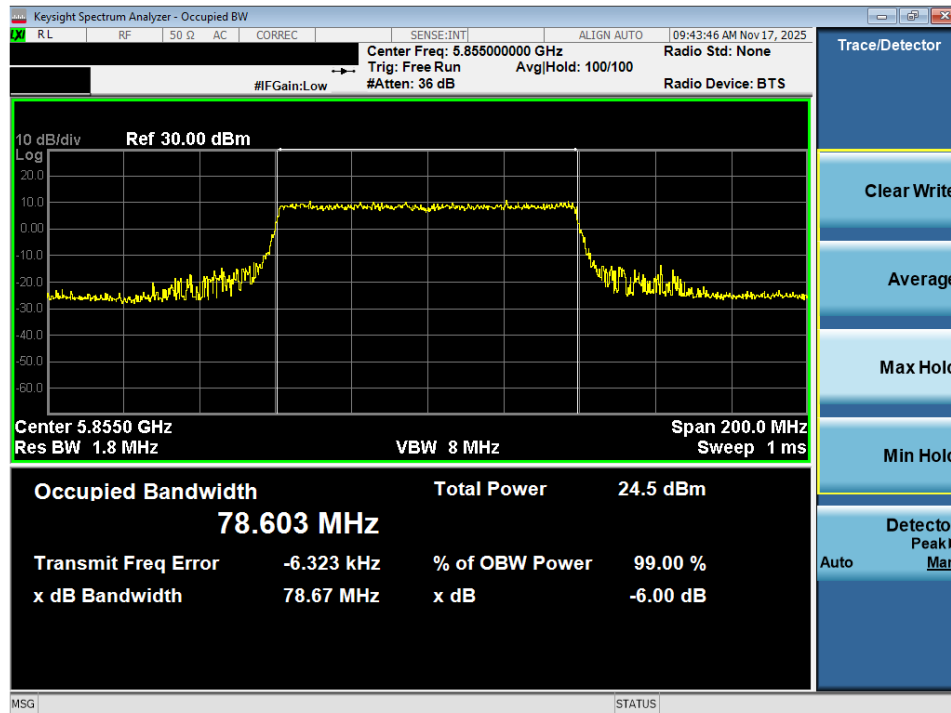


Plot 7-68. OBW Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 56 of 124



Plot 7-69. OBW Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)



Plot 7-70. OBW Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 57 of 124

7.4 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.

The output power limits are as specified in the tables below.

UNII Band	Frequency Range	Maximum Conducted Power Limit	Maximum e.i.r.p
		FCC	FCC
UNII 1	5.15 – 5.25GHz	23.98dBm (250mW)	N/A
UNII 2A	5.25 – 5.35GHz	The lesser of 23.98dBm (250mW) or 11dBm + 10log ₁₀ B	N/A
UNII 2C	5.47 – 5.725GHz		
UNII 3	5.725 – 5.850GHz	30dBm (1W)	N/A
UNII 4	5.850 – 5.895GHz	N/A	30dBm (1W)

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.

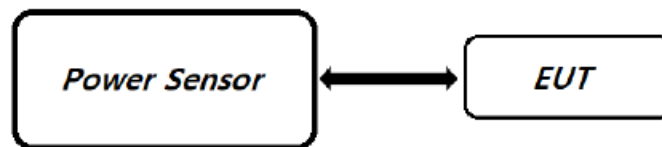


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 58 of 124

MIMO Maximum Conducted Output Power Measurements

5GHz WIFI (20MHz 802.11a MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5180	36	13.85	15.25	17.62	23.98	-6.36	-3.49	14.13	30.00	-15.87
	5200	40	14.30	16.08	18.29	23.98	-5.69	-3.49	14.80	30.00	-15.20
	5220	44	14.65	16.99	18.99	23.98	-4.99	-3.49	15.50	30.00	-14.50
	5240	48	14.63	15.55	18.12	23.98	-5.86	-3.49	14.63	30.00	-15.37
UNII-2A	5260	52	13.80	16.15	18.14	23.98	-5.84	-3.86	14.28	30.00	-15.72
	5280	56	14.05	15.80	18.02	23.98	-5.96	-3.86	14.16	30.00	-15.84
	5300	60	13.60	16.03	17.99	23.98	-5.99	-3.86	14.13	30.00	-15.87
	5320	64	13.60	15.20	17.48	23.98	-6.50	-3.86	13.62	30.00	-16.38
UNII-2C	5500	100	14.48	16.15	18.40	23.98	-5.58	-2.63	15.77	30.00	-14.23
	5600	120	14.58	16.75	18.81	23.98	-5.17	-2.63	16.18	30.00	-13.82
	5620	124	14.15	16.45	18.46	23.98	-5.52	-2.63	15.84	30.00	-14.16
	5720	144	14.15	16.35	18.40	23.98	-5.58	-2.63	15.77	30.00	-14.23
UNII-3	5745	149	14.55	15.55	18.09	30.00	-11.91	-2.65	15.43	36.00	-20.57
	5785	157	14.40	15.80	18.17	30.00	-11.83	-2.65	15.51	36.00	-20.49
	5825	165	14.55	16.20	18.46	30.00	-11.54	-2.65	15.81	36.00	-20.19
	5845	169	14.30	16.25	18.39	-	-	-2.88	15.51	30.00	-14.49
UNII-4	5865	173	13.85	16.20	18.19	-	-	-2.88	15.31	30.00	-14.69
	5885	177	13.50	15.80	17.81	-	-	-2.88	14.93	30.00	-15.07

Table 7-5. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5180	36	13.60	14.75	17.22	23.98	-6.76	-3.49	13.73	30.00	-16.27
	5200	40	14.35	16.00	18.26	23.98	-5.72	-3.49	14.77	30.00	-15.23
	5220	44	14.55	15.70	18.17	23.98	-5.81	-3.49	14.68	30.00	-15.32
	5240	48	14.40	15.40	17.94	23.98	-6.04	-3.49	14.45	30.00	-15.55
UNII-2A	5260	52	13.80	16.50	18.37	23.98	-5.61	-3.86	14.51	30.00	-15.49
	5280	56	14.23	16.30	18.40	23.98	-5.58	-3.86	14.54	30.00	-15.46
	5300	60	14.30	16.10	18.30	23.98	-5.68	-3.86	14.44	30.00	-15.56
	5320	64	13.55	15.20	17.46	23.98	-6.52	-3.86	13.60	30.00	-16.40
UNII-2C	5500	100	14.90	16.80	18.96	23.98	-5.02	-2.63	16.33	30.00	-13.67
	5620	124	14.55	16.65	18.74	23.98	-5.24	-2.63	16.11	30.00	-13.89
	5720	144	14.69	16.50	18.70	23.98	-5.28	-2.63	16.07	30.00	-13.93
UNII-3	5745	149	14.90	16.20	18.61	30.00	-11.39	-2.65	15.95	36.00	-20.05
	5785	157	14.58	16.50	18.65	30.00	-11.35	-2.65	16.00	36.00	-20.00
	5825	165	14.50	16.50	18.62	30.00	-11.38	-2.65	15.97	36.00	-20.03
UNII-4	5845	169	14.40	16.55	18.62	-	-	-2.88	15.73	30.00	-14.27
	5865	173	13.75	16.20	18.16	-	-	-2.88	15.27	30.00	-14.73
	5885	177	13.95	16.25	18.26	-	-	-2.88	15.38	30.00	-14.62

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

5GHz WIFI (20MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5180	36	13.30	14.50	16.95	23.98	-7.03	-3.49	13.46	30.00	-16.54
	5200	40	14.10	15.90	18.10	23.98	-5.88	-3.49	14.61	30.00	-15.39
	5220	44	14.50	16.00	18.32	23.98	-5.66	-3.49	14.83	30.00	-15.17
	5240	48	14.40	15.40	17.94	23.98	-6.04	-3.49	14.45	30.00	-15.55
UNII-2A	5260	52	13.40	16.10	17.97	23.98	-6.01	-3.86	14.11	30.00	-15.89
	5280	56	14.00	15.95	18.09	23.98	-5.89	-3.86	14.23	30.00	-15.77
	5300	60	14.00	16.00	18.12	23.98	-5.86	-3.86	14.26	30.00	-15.74
	5320	64	13.00	14.60	16.88	23.98	-7.10	-3.86	13.02	30.00	-16.98
UNII-2C	5500	100	14.79	16.20	18.56	23.98	-5.42	-2.63	15.93	30.00	-14.07
	5600	120	14.50	16.70	18.75	23.98	-5.23	-2.63	16.12	30.00	-13.88
	5620	124	14.30	16.15	18.33	23.98	-5.65	-2.63	15.71	30.00	-14.29
	5720	144	14.40	16.35	18.49	23.98	-5.49	-2.63	15.87	30.00	-14.13
UNII-3	5745	149	14.99	15.90	18.48	30.00	-11.52	-2.65	15.82	36.00	-20.18
	5785	157	14.00	15.80	18.00	30.00	-12.00	-2.65	15.35	36.00	-20.65
	5825	165	14.55	16.25	18.49	30.00	-11.51	-2.65	15.84	36.00	-20.16
	5845	169	14.20	15.95	18.17	-	-	-2.88	15.29	30.00	-14.71
UNII-4	5865	173	14.10	16.20	18.29	-	-	-2.88	15.40	30.00	-14.60
	5885	177	13.55	15.90	17.89	-	-	-2.88	15.01	30.00	-14.99

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

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset		Page 59 of 124

5GHz WIFI (20MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5180	36	13.75	14.99	17.42	23.98	-6.56	-3.49	13.93	30.00	-16.07
	5200	40	14.40	15.70	18.11	23.98	-5.87	-3.49	14.62	30.00	-15.38
	5220	44	14.69	16.85	18.91	23.98	-5.07	-3.49	15.42	30.00	-14.58
	5240	48	14.05	15.35	17.76	23.98	-6.22	-3.49	14.27	30.00	-15.73
UNII-2A	5260	52	13.85	16.20	18.19	23.98	-5.79	-3.86	14.33	30.00	-15.67
	5280	56	13.65	15.95	17.96	23.98	-6.02	-3.86	14.10	30.00	-15.90
	5300	60	14.00	15.50	17.82	23.98	-6.16	-3.86	13.96	30.00	-16.04
	5320	64	13.35	15.15	17.35	23.98	-6.63	-3.86	13.49	30.00	-16.51
UNII-2C	5500	100	14.60	16.25	18.51	23.98	-5.47	-2.63	15.88	30.00	-14.12
	5600	120	14.50	16.60	18.69	23.98	-5.29	-2.63	16.06	30.00	-13.94
	5620	124	14.40	16.55	18.62	23.98	-5.36	-2.63	15.99	30.00	-14.01
	5720	144	14.55	15.90	18.29	23.98	-5.69	-2.63	15.66	30.00	-14.34
UNII-3	5745	149	14.69	16.20	18.52	30.00	-11.48	-2.65	15.87	36.00	-20.13
	5785	157	14.10	16.30	18.35	30.00	-11.65	-2.65	15.69	36.00	-20.31
	5825	165	14.65	15.90	18.33	30.00	-11.67	-2.65	15.68	36.00	-20.32
UNII-4	5845	169	14.20	16.20	18.32	-	-	-2.88	15.44	30.00	-14.56
	5865	173	13.75	15.95	18.00	-	-	-2.88	15.11	30.00	-14.89
	5885	177	13.90	15.80	17.96	-	-	-2.88	15.08	30.00	-14.92

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

5GHz WIFI (40MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5190	38	10.50	11.60	14.10	23.98	-9.88	-3.49	10.61	30.00	-19.39
	5230	46	13.30	14.70	17.07	23.98	-6.91	-3.49	13.58	30.00	-16.42
UNII-2A	5270	54	12.85	15.05	17.10	23.98	-6.88	-3.86	13.24	30.00	-16.76
	5310	62	11.15	13.20	15.31	23.98	-8.67	-3.86	11.45	30.00	-18.55
UNII-2C	5510	102	12.80	14.65	16.83	23.98	-7.15	-2.63	14.20	30.00	-15.80
	5590	118	13.30	15.50	17.55	23.98	-6.43	-2.63	14.92	30.00	-15.08
	5630	126	13.40	15.30	17.46	23.98	-6.52	-2.63	14.83	30.00	-15.17
	5710	142	13.10	15.25	17.32	23.98	-6.66	-2.63	14.69	30.00	-15.31
UNII-3	5755	151	13.30	15.20	17.36	30.00	-12.64	-2.65	14.71	36.00	-21.29
	5795	159	13.00	15.10	17.19	30.00	-12.81	-2.65	14.54	36.00	-21.46
UNII-4	5835	167	13.30	15.40	17.49	-	-	-2.65	14.84	30.00	-15.16
	5875	175	12.80	15.00	17.05	-	-	-2.88	14.16	30.00	-15.84

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

5GHz WIFI (40MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5190	38	10.25	11.15	13.73	23.98	-10.25	-3.49	10.24	30.00	-19.76
	5230	46	12.80	14.30	16.62	23.98	-7.36	-3.49	13.13	30.00	-16.87
UNII-2A	5270	54	12.70	15.15	17.11	23.98	-6.87	-3.86	13.25	30.00	-16.75
	5310	62	11.35	12.88	15.19	23.98	-8.79	-3.86	11.33	30.00	-18.67
UNII-2C	5510	102	12.95	14.25	16.66	23.98	-7.32	-2.63	14.03	30.00	-15.97
	5590	118	13.35	15.10	17.32	23.98	-6.66	-2.63	14.69	30.00	-15.31
	5630	126	13.00	15.10	17.19	23.98	-6.79	-2.63	14.56	30.00	-15.44
	5710	142	13.25	15.00	17.22	23.98	-6.76	-2.63	14.59	30.00	-15.41
UNII-3	5755	151	13.20	15.00	17.20	30.00	-12.80	-2.65	14.55	36.00	-21.45
	5795	159	12.90	15.05	17.12	30.00	-12.88	-2.65	14.47	36.00	-21.53
UNII-4	5835	167	12.60	14.95	16.94	-	-	-2.65	14.29	30.00	-15.71
	5875	175	12.70	14.95	16.98	-	-	-2.88	14.10	30.00	-15.90

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

5GHz WIFI (40MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5190	38	10.45	12.15	14.39	23.98	-9.59	-3.49	10.90	30.00	-19.10
	5230	46	13.15	14.90	17.12	23.98	-6.86	-3.49	13.63	30.00	-16.37
UNII-2A	5270	54	12.70	14.70	16.82	23.98	-7.16	-3.86	12.96	30.00	-17.04
	5310	62	11.30	13.15	15.33	23.98	-8.65	-3.86	11.47	30.00	-18.53
UNII-2C	5510	102	12.60	14.45	16.63	23.98	-7.35	-2.63	14.00	30.00	-16.00
	5590	118	13.20	15.30	17.39	23.98	-6.59	-2.63	14.76	30.00	-15.24
	5630	126	13.20	14.50	16.91	23.98	-7.07	-2.63	14.28	30.00	-15.72
	5710	142	13.15	15.15	17.27	23.98	-6.71	-2.63	14.64	30.00	-15.36
UNII-3	5755	151	13.30	15.10	17.30	30.00	-12.70	-2.65	14.65	36.00	-21.35
	5795	159	13.25	15.10	17.28	30.00	-12.72	-2.65	14.63	36.00	-21.37
UNII-4	5835	167	12.90	14.80	16.96	-	-	-2.65	14.31	30.00	-15.69
	5875	175	12.75	14.55	16.75	-	-	-2.88	13.87	30.00	-16.13

Table 7-11. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT				Approved by: Technical Manager	
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5GHz WIFI (80MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5210	42	9.20	11.85	13.73	23.98	-10.25	-3.49	10.24	30.00	-19.76
UNII-2A	5290	58	9.60	11.43	13.62	23.98	-10.36	-3.86	9.76	30.00	-20.24
UNII-2C	5530	106	9.60	11.20	13.48	23.98	-10.50	-2.63	10.85	30.00	-19.15
	5610	122	10.08	12.43	14.42	23.98	-9.56	-2.63	11.79	30.00	-18.21
	5690	138	10.06	11.64	13.93	23.98	-10.05	-2.63	11.30	30.00	-18.70
UNII-3	5775	155	10.12	11.77	14.03	30.00	-15.97	-2.65	11.38	36.00	-24.62
UNII-4	5855	171	10.08	12.12	14.23	-	-	-2.65	11.58	30.00	-18.42

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

5GHz WIFI (80MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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-1	5210	42	10.25	12.10	14.28	23.98	-9.70	-3.49	10.79	30.00	-19.21
UNII-2A	5290	58	9.55	11.55	13.67	23.98	-10.31	-3.86	9.81	30.00	-20.19
UNII-2C	5530	106	10.10	11.40	13.81	23.98	-10.17	-2.63	11.18	30.00	-18.82
	5610	122	10.14	12.12	14.25	23.98	-9.73	-2.63	11.62	30.00	-18.38
	5690	138	9.88	11.64	13.86	23.98	-10.12	-2.63	11.23	30.00	-18.77
UNII-3	5775	155	9.78	11.82	13.93	30.00	-16.07	-2.65	11.28	36.00	-24.72
UNII-4	5855	171	10.18	11.98	14.18	-	-	-2.65	11.53	30.00	-18.47

Table 7-13. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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**Note:**

Per ANSI C63.10:2020, the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission 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 5180MHz in 802.11a (20MHz BW) mode, the average conducted output power was measured to be 13.85 dBm for Antenna 1 and 15.25 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(13.85 \text{ dBm} + 15.25 \text{ dBm}) = (24.266 \text{ mW} + 33.497 \text{ mW}) = 57.763 \text{ mW} = 17.62 \text{ dBm}$$

Sample e.i.r.p Calculation:

At 5180MHz in 802.11a (20MHz BW) mode, the average MIMO conducted power was calculated to be 17.62 dBm with directional gain of -3.49 dBi.

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

$$17.62 \text{ dBm} + -3.49 \text{ dBi} = 14.13 \text{ dBm}$$

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.5 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.

The output power density limits are as specified in the tables below.

UNII Band	Frequency Range	Maximum Power Spectral Density
		FCC
UNII 1	5.15 – 5.25GHz	11dBm/MHz
UNII 2A	5.25 – 5.35GHz	11dBm/MHz
UNII 2C	5.47 – 5.725GHz	
UNII 3	5.725 – 5.850GHz	30dBm/500kHz
UNII 4	5.850 – 5.895GHz	14dBm/MHz e.i.r.p

Test Procedure Used

ANSI C63.10:2020 – Section 12.4.2.4 (Method SA-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 7-4. Test Instrument & Measurement Setup

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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	DCCF [dB]	MIMO Summed PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 1	5180	36	a	2.42	5.22	0.16	7.22	11.00	-3.78
	5200	40	a	2.28	5.29	0.16	7.21	11.00	-3.79
	5240	48	a	2.31	5.32	0.16	7.25	11.00	-3.75
	5180	36	n	2.11	5.36	0.16	7.21	11.00	-3.79
	5200	40	n	2.24	5.34	0.16	7.24	11.00	-3.76
	5240	48	n	2.06	5.24	0.16	7.11	11.00	-3.89
	5180	36	ax SU	1.90	5.20	0.12	6.99	11.00	-4.01
	5200	40	ax SU	1.82	5.10	0.12	6.89	11.00	-4.11
	5240	48	ax SU	1.75	5.04	0.12	6.84	11.00	-4.16
	5190	38	n	-1.17	1.40	0.17	3.48	11.00	-7.52
	5230	46	n	-1.41	1.93	0.17	3.75	11.00	-7.25
	5190	38	ax SU	-1.73	1.63	0.24	3.52	11.00	-7.48
	5230	46	ax SU	-1.92	1.50	0.24	3.37	11.00	-7.63
	5210	42	ac	-6.01	-2.99	0.43	-0.80	11.00	-11.80
Band 2A	5210	42	ax SU	-6.30	-3.18	0.48	-0.98	11.00	-11.98
	5260	52	a	2.00	5.74	0.16	7.44	11.00	-3.56
	5280	56	a	2.16	5.57	0.16	7.37	11.00	-3.63
	5320	64	a	2.07	5.54	0.16	7.32	11.00	-3.68
	5260	52	n	1.88	5.53	0.16	7.25	11.00	-3.75
	5280	56	n	1.83	5.58	0.16	7.27	11.00	-3.73
	5320	64	n	1.65	5.25	0.16	6.99	11.00	-4.01
	5260	52	ax SU	1.55	5.33	0.12	6.97	11.00	-4.03
	5280	56	ax SU	1.59	5.25	0.12	6.93	11.00	-4.07
	5320	64	ax SU	1.22	5.01	0.12	6.65	11.00	-4.35
	5270	54	n	-1.85	1.81	0.17	3.53	11.00	-7.47
	5310	62	n	-1.90	1.93	0.17	3.60	11.00	-7.40
	5270	54	ax SU	-1.71	1.87	0.24	3.69	11.00	-7.31
	5310	62	ax SU	-2.25	1.87	0.24	3.53	11.00	-7.47
Band 2C	5290	58	ac	-6.41	-2.62	0.43	-0.67	11.00	-11.67
	5290	58	ax SU	-6.44	-2.41	0.48	-0.48	11.00	-11.48
	5500	100	a	2.03	5.69	0.16	7.41	11.00	-3.59
	5600	120	a	2.60	5.25	0.16	7.30	11.00	-3.70
	5720	144	a	1.30	5.47	0.16	7.04	11.00	-3.96
	5500	100	n	1.75	5.47	0.16	7.17	11.00	-3.83
	5600	120	n	1.22	5.79	0.16	7.25	11.00	-3.75
	5720	144	n	1.06	5.27	0.16	6.83	11.00	-4.17
	5500	100	ax SU	1.54	4.99	0.12	6.73	11.00	-4.27
	5600	120	ax SU	1.17	5.24	0.12	6.80	11.00	-4.20
	5720	144	ax SU	0.88	4.98	0.12	6.53	11.00	-4.47
	5510	102	n	-2.06	2.05	0.17	3.64	11.00	-7.36
	5590	118	n	-1.81	2.00	0.17	3.68	11.00	-7.32
	5710	142	n	-2.05	1.40	0.17	3.18	11.00	-7.82
	5510	102	ax SU	-2.37	2.03	0.24	3.61	11.00	-7.39
	5590	118	ax SU	-1.89	1.80	0.24	3.58	11.00	-7.42
	5710	142	ax SU	-2.53	1.62	0.24	3.27	11.00	-7.73
	5530	106	ac	-6.93	-2.76	0.43	-0.92	11.00	-11.92
	5610	122	ac	-6.52	-2.74	0.43	-0.78	11.00	-11.78
	5690	138	ac	-6.41	-2.83	0.43	-0.81	11.00	-11.81
	5530	106	ax SU	-6.82	-2.63	0.48	-0.75	11.00	-11.75
	5610	122	ax SU	-6.85	-3.16	0.48	-1.14	11.00	-12.14
	5690	138	ax SU	-6.41	-2.89	0.48	-0.82	11.00	-11.82

Table 7-14. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

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	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	DCCF [dB]	Antenna Gain [dBi]	EIRP PSD [dBm]	Max PSD [dBm]	Margin [dB]
Band 1	5180	36	a	2.42	5.22	7.05	0.16	-3.49	3.72	10.00	-6.28
	5200	40	a	2.28	5.29	7.05	0.16	-3.49	3.72	10.00	-6.28
	5240	48	a	2.31	5.32	7.08	0.16	-3.49	3.75	10.00	-6.25
	5180	36	n	2.11	5.36	7.04	0.16	-3.49	3.71	10.00	-6.29
	5200	40	n	2.24	5.34	7.07	0.16	-3.49	3.75	10.00	-6.25
	5240	48	n	2.06	5.24	6.95	0.16	-3.49	3.62	10.00	-6.38
	5180	36	ax SU	1.90	5.20	6.86	0.12	-3.49	3.50	10.00	-6.50
	5200	40	ax SU	1.82	5.10	6.77	0.12	-3.49	3.40	10.00	-6.60
	5240	48	ax SU	1.75	5.04	6.71	0.12	-3.49	3.34	10.00	-6.66
	5190	38	n	-1.17	1.40	3.31	0.17	-3.49	-0.01	10.00	-10.01
	5230	46	n	-1.41	1.93	3.58	0.17	-3.49	0.26	10.00	-9.74
	5190	38	ax SU	-1.73	1.63	3.28	0.24	-3.49	0.03	10.00	-9.97
	5230	46	ax SU	-1.92	1.50	3.13	0.24	-3.49	-0.13	10.00	-10.13
	5210	42	ac	-6.01	-2.99	-1.23	0.43	-3.49	-4.29	10.00	-14.29
	5210	42	ax SU	-6.30	-3.18	-1.46	0.48	-3.49	-4.47	10.00	-14.47

Table 7-15. Bands 1, 2A, 2C MIMO EIRP Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	DCCF [dB]	MIMO Summed PSD [dBm]	PSD Limit[dBm]	Margin [dB]
Band 3	5745	149	a	-1.46	2.98	0.16	4.48	30.00	-25.52
	5785	157	a	-0.29	2.58	0.16	4.55	30.00	-25.45
	5825	165	a	-0.57	2.64	0.16	4.50	30.00	-25.50
	5745	149	n	-1.25	2.89	0.16	4.47	30.00	-25.53
	5785	157	n	-0.55	2.33	0.16	4.30	30.00	-25.70
	5825	165	n	-1.10	2.37	0.16	4.15	30.00	-25.85
	5745	149	ax SU	-1.65	2.50	0.12	4.04	30.00	-25.96
	5785	157	ax SU	-1.00	1.94	0.12	3.85	30.00	-26.15
	5825	165	ax SU	-1.29	2.27	0.12	3.98	30.00	-26.02
	5755	151	n	-4.83	-0.97	0.17	0.69	30.00	-29.31
	5795	159	n	-4.44	-1.23	0.17	0.63	30.00	-29.37
	5755	151	ax SU	-4.99	-1.19	0.24	0.56	30.00	-29.44
	5795	159	ax SU	-4.57	-1.32	0.24	0.60	30.00	-29.40
	5775	155	ac	-9.12	-5.73	0.43	-3.66	30.00	-33.66
	5775	155	ax SU	-9.33	-5.80	0.48	-3.73	30.00	-33.73

Table 7-16. Band 3 MIMO Conducted Power Spectral Density Measurements

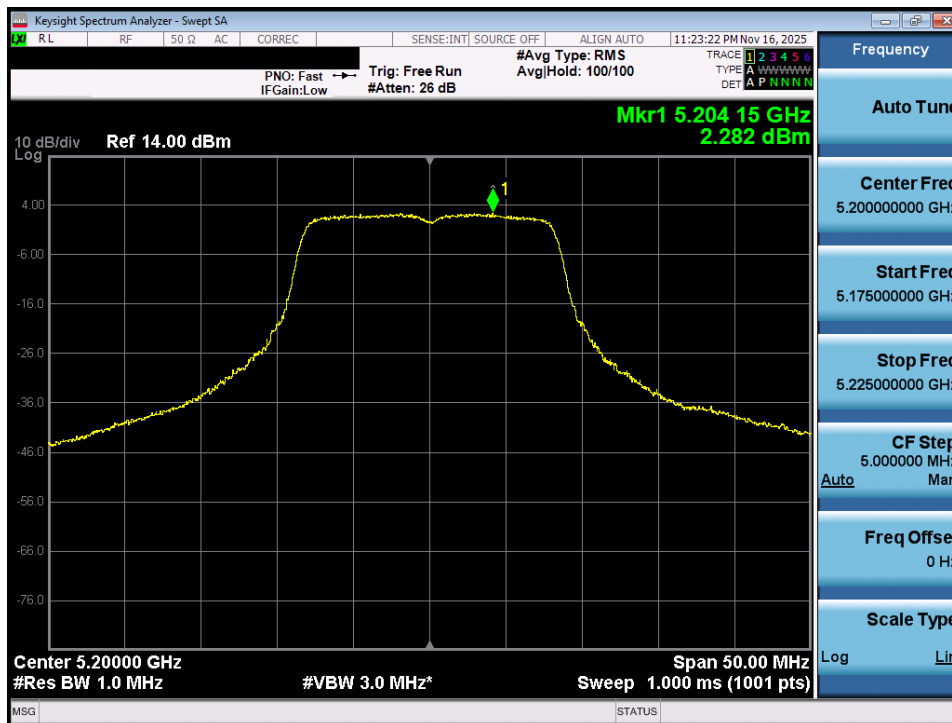
FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dBm]	DCCF [dB]	Directional Antenna Gain [dBi]	EIRP PSD [dBm]	EIRP PSD Limit [dBm]	Margin [dB]
Band 3/4	5845	169	a	2.57	5.59	7.34	0.16	-2.88	4.63	14.00	-9.37
Band 4	5865	173	a	2.97	5.31	7.31	0.16	-2.88	4.59	14.00	-9.41
	5885	177	a	2.46	5.31	7.12	0.16	-2.88	4.40	14.00	-9.60
Band 3/4	5845	169	n	2.52	5.24	7.10	0.16	-2.88	4.38	14.00	-9.62
Band 4	5865	173	n	2.65	5.26	7.16	0.16	-2.88	4.44	14.00	-9.56
	5885	177	n	2.36	5.11	6.96	0.16	-2.88	4.24	14.00	-9.76
Band 3/4	5845	169	ax SU	2.20	4.90	6.76	0.12	-2.88	4.00	14.00	-10.00
Band 4	5865	173	ax SU	2.24	5.02	6.86	0.12	-2.88	4.10	14.00	-9.90
	5885	177	ax SU	2.31	4.83	6.76	0.12	-2.88	4.00	14.00	-10.00
Band 3/4	5835	167	n	-0.91	1.65	3.57	0.17	-2.88	0.85	14.00	-13.15
Band 4	5875	175	n	-0.71	1.57	3.59	0.17	-2.88	0.87	14.00	-13.13
Band 3/4	5835	167	ax SU	-1.39	1.63	3.39	0.24	-2.88	0.74	14.00	-13.26
Band 4	5875	175	ax SU	-1.25	1.29	3.22	0.24	-2.88	0.57	14.00	-13.43
Band 3/4	5855	171	ac	-5.65	-3.30	-1.31	0.43	-2.88	-3.76	14.00	-17.76
	5855	171	ax SU	-5.62	-3.34	-1.32	0.48	-2.88	-3.73	14.00	-17.73

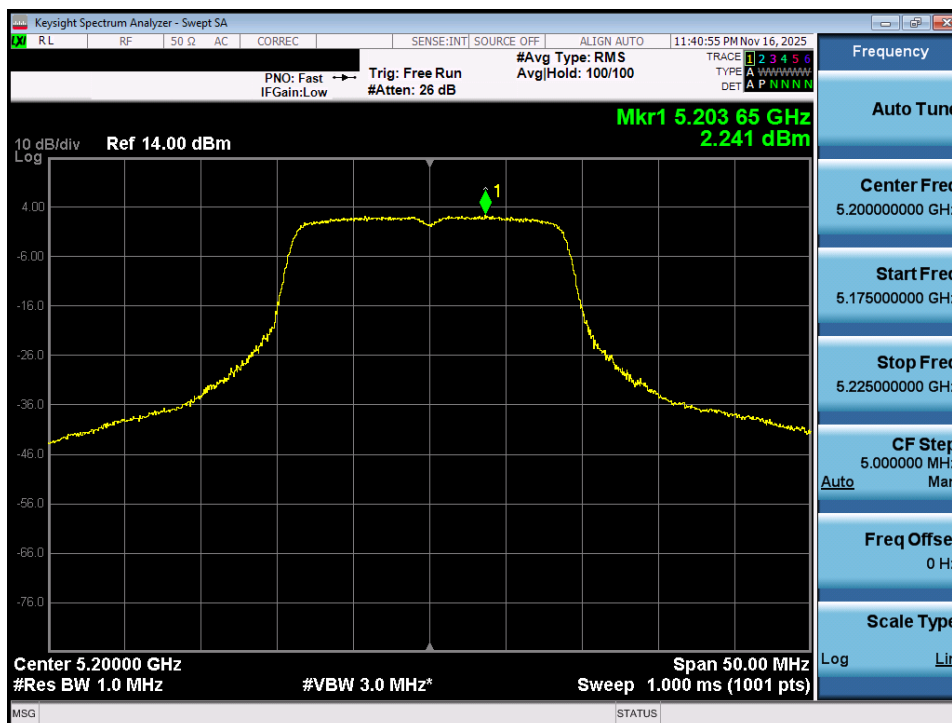
Table 7-17. Bands 3/4 MIMO Conducted Power Spectral Density Measurements

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.5.1 MIMO Antenna-1 Power Spectral Density Measurements

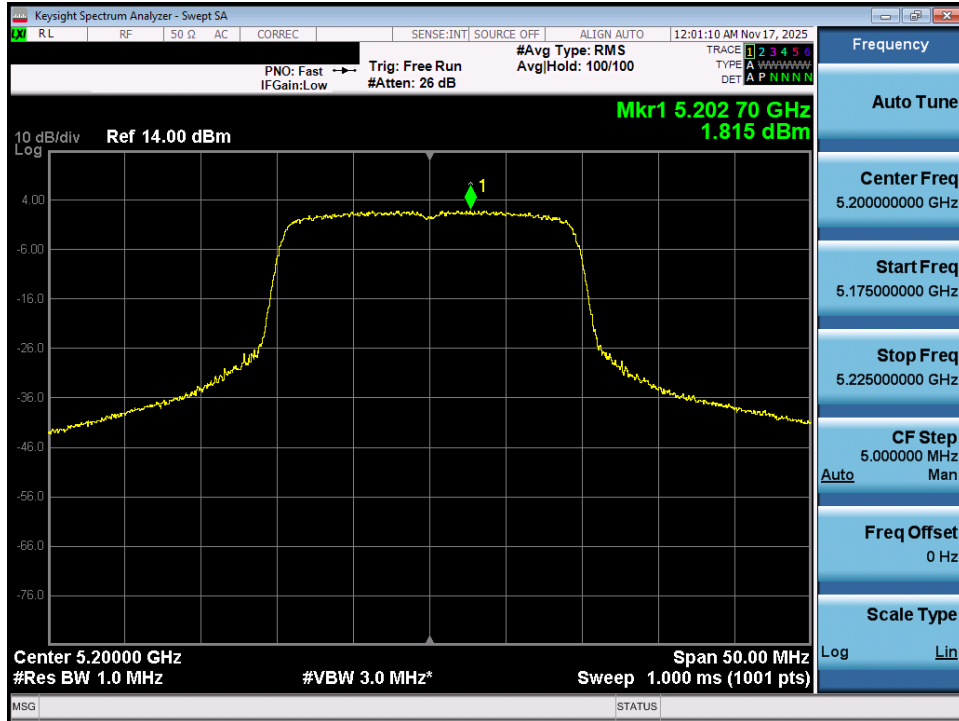


Plot 7-71. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 1) – Ch. 40)

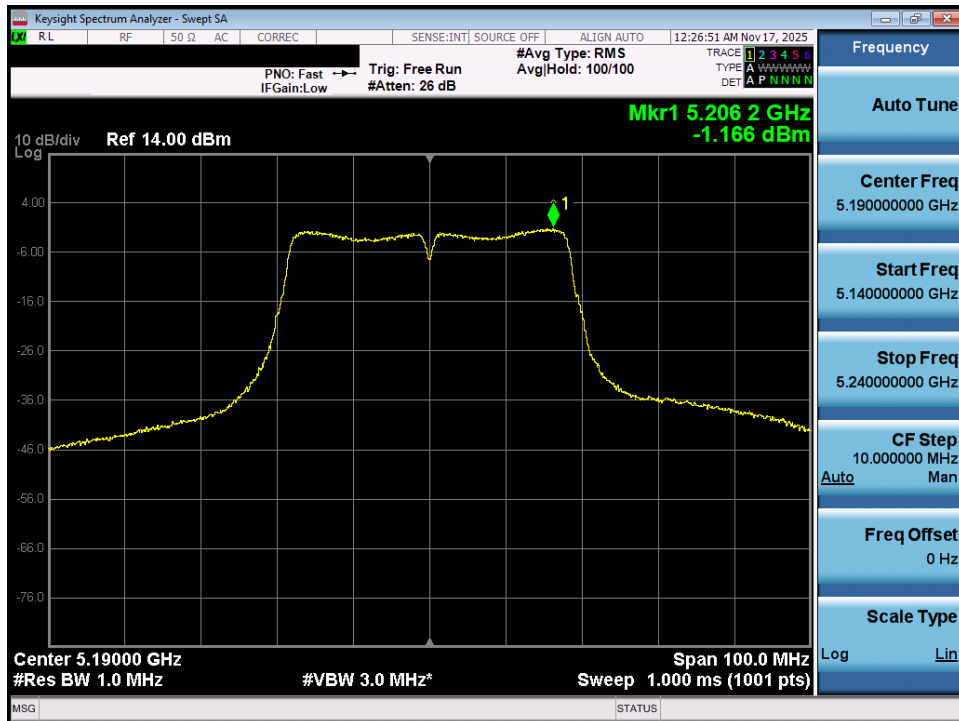


Plot 7-72. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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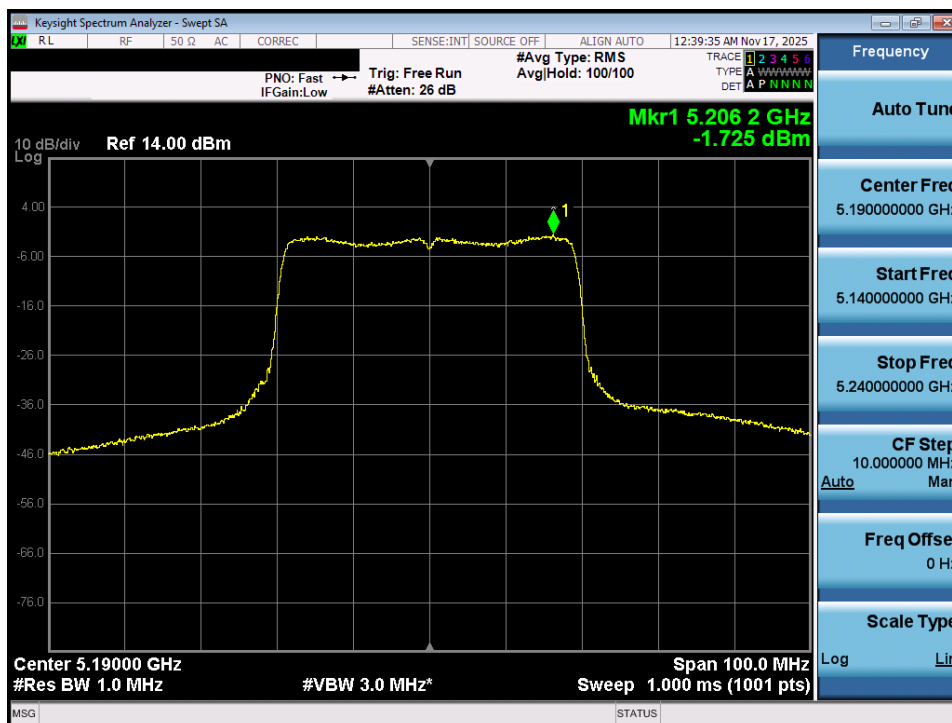


Plot 7-73. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

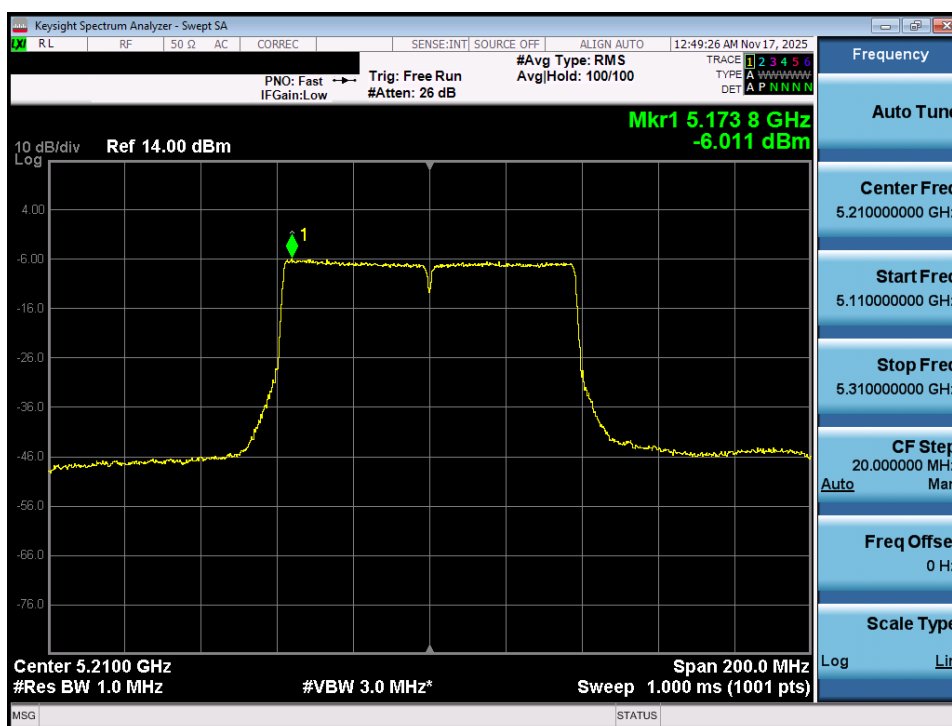


Plot 7-74. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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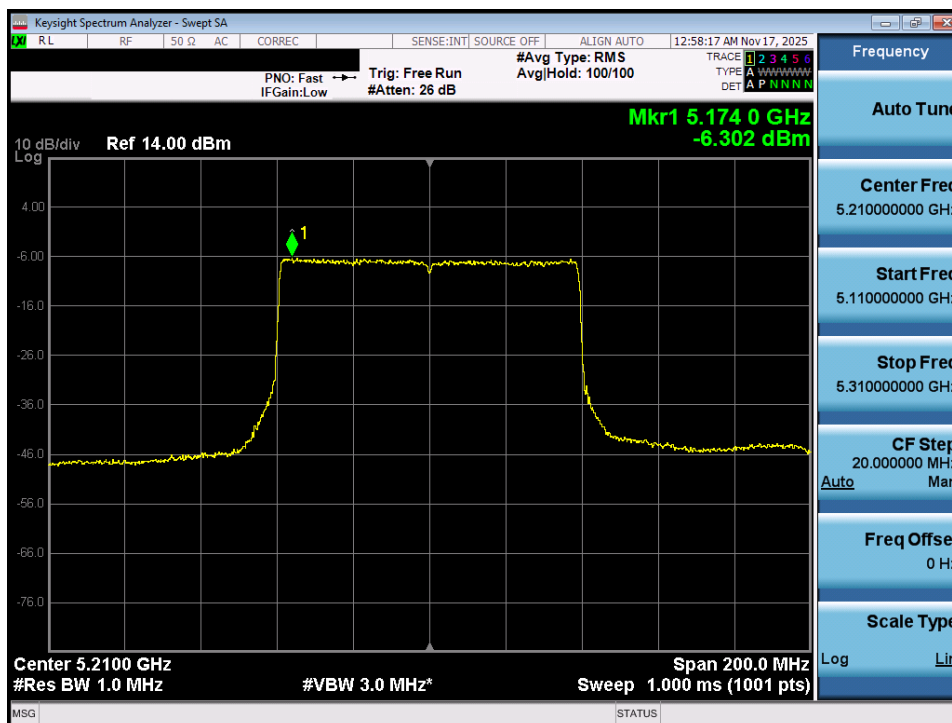


Plot 7-75. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

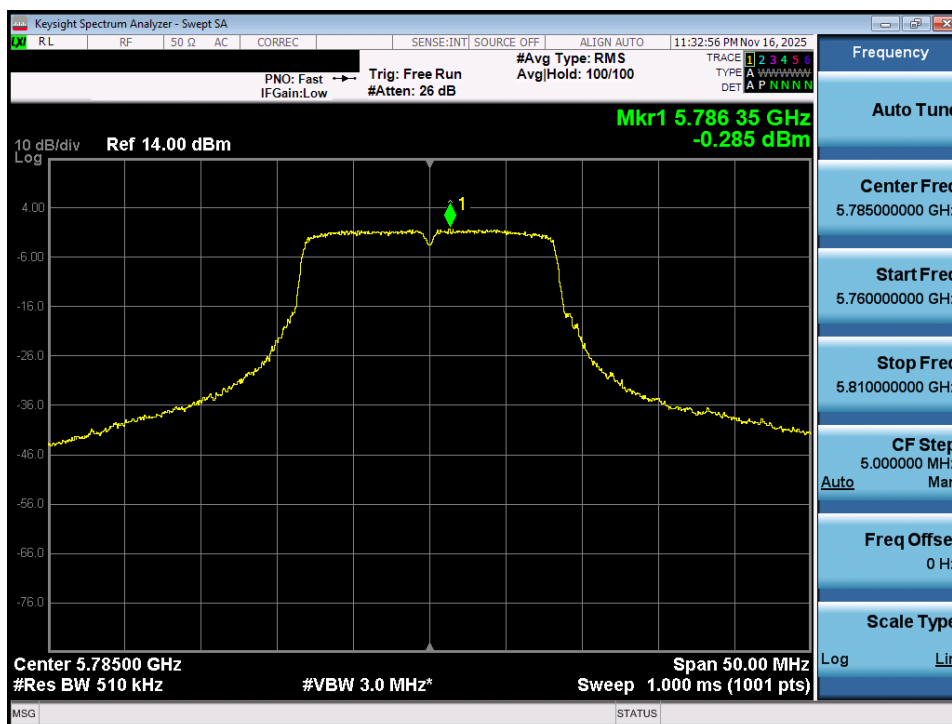


Plot 7-76. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 69 of 124

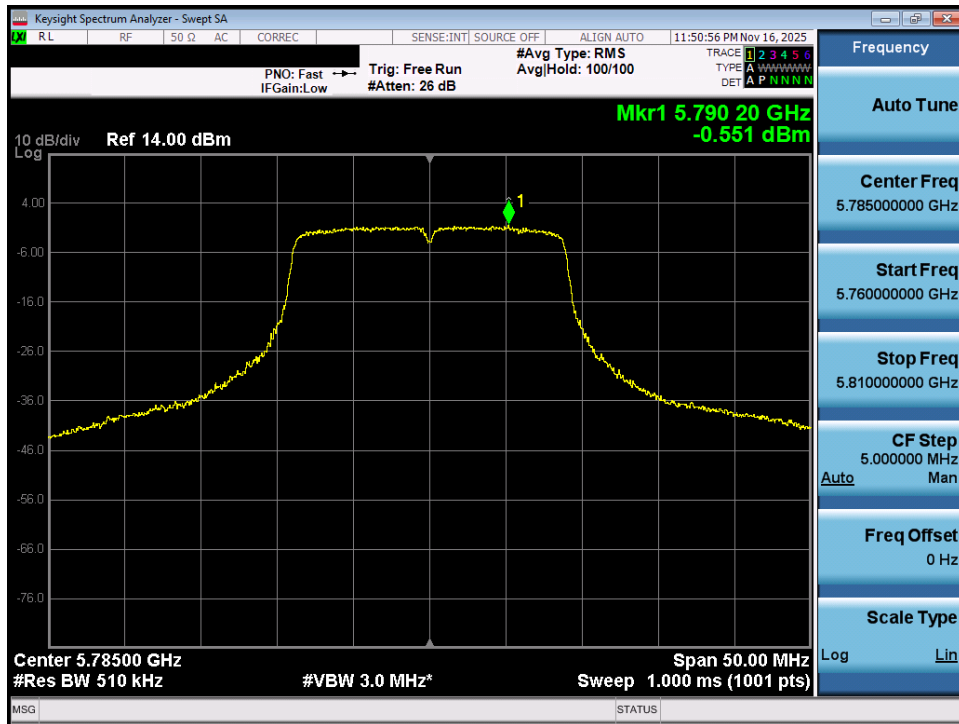


Plot 7-77. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

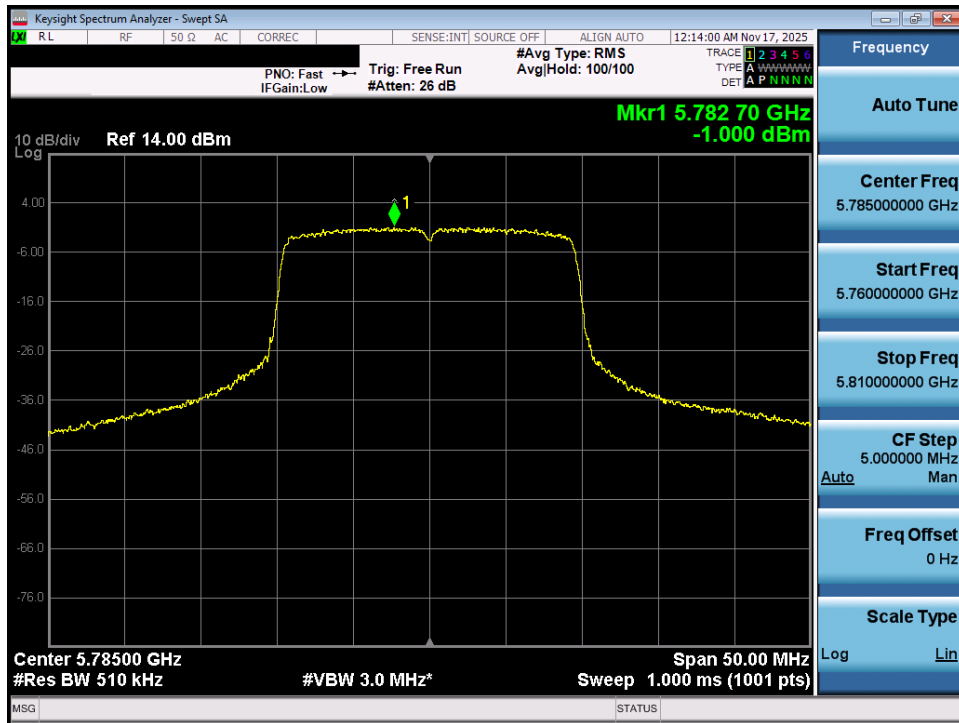


Plot 7-78. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 70 of 124

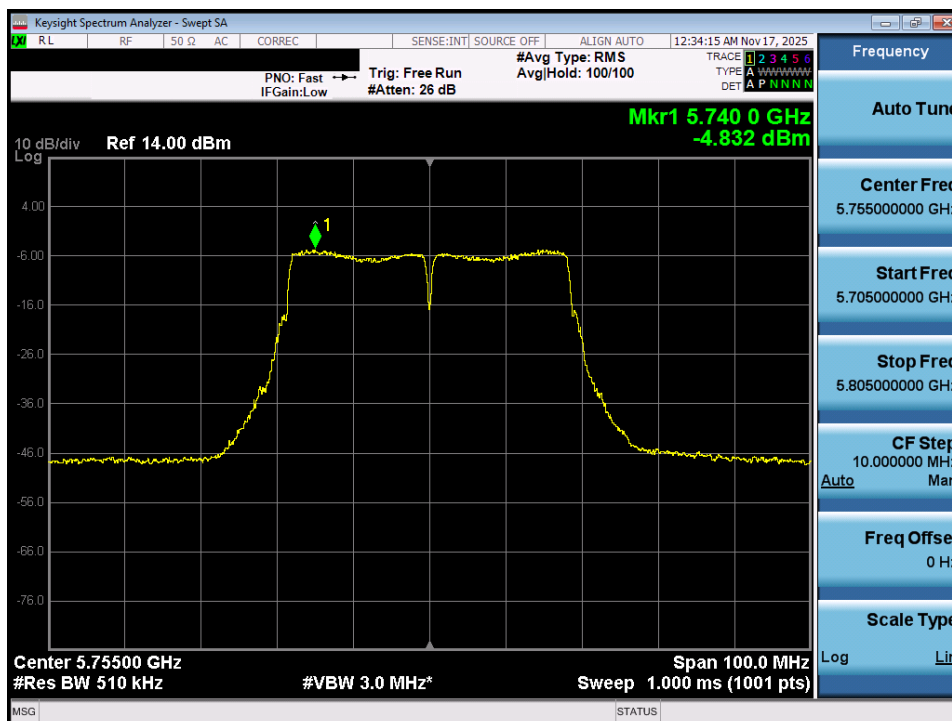


Plot 7-79. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

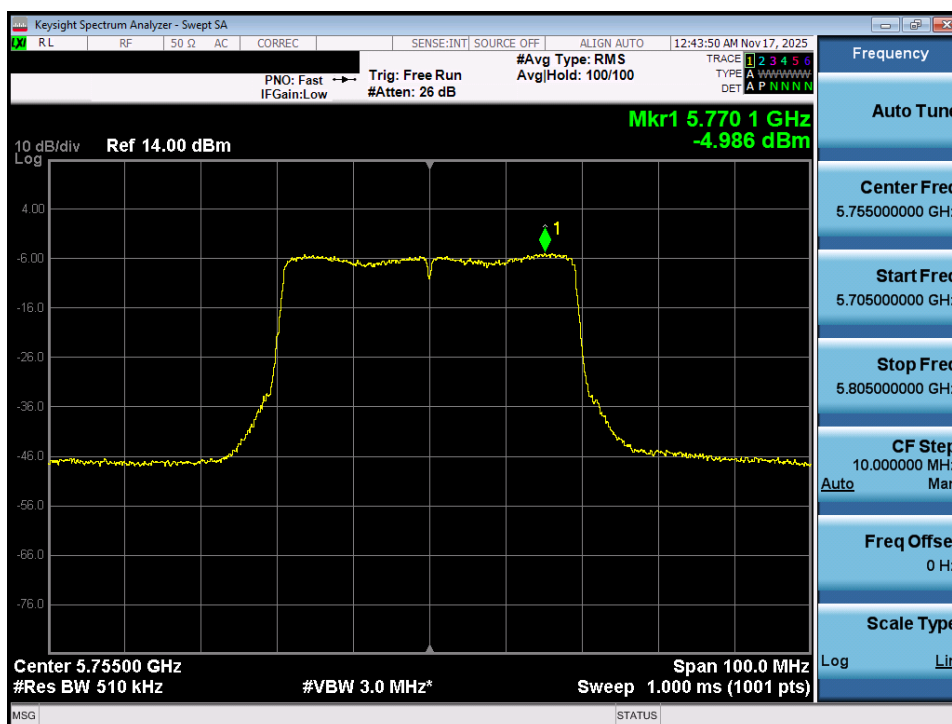


Plot 7-80. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 71 of 124

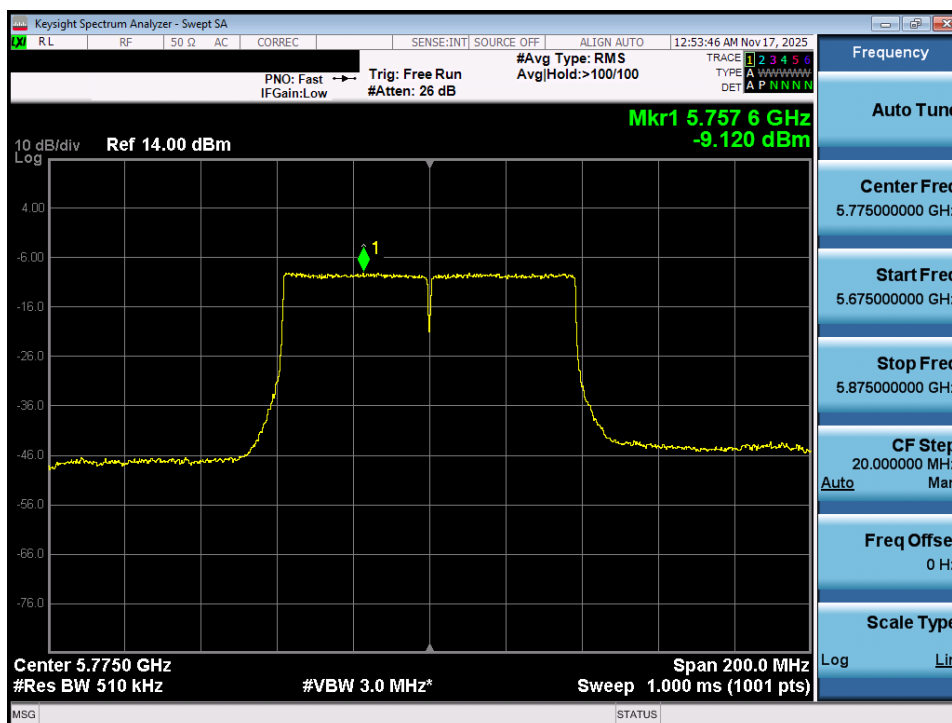


Plot 7-81. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

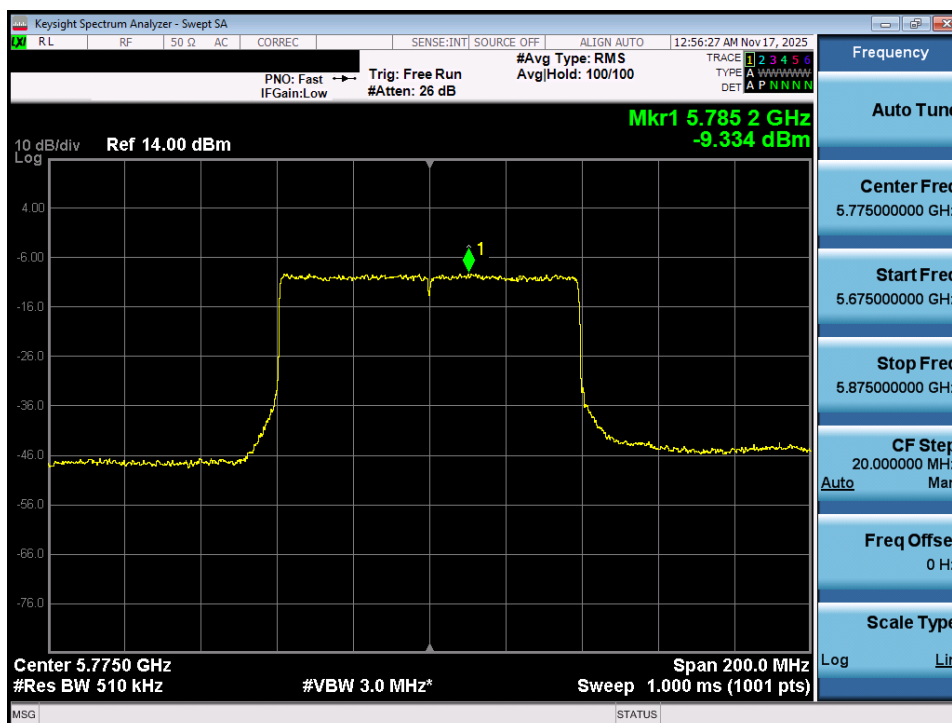


Plot 7-82. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 72 of 124

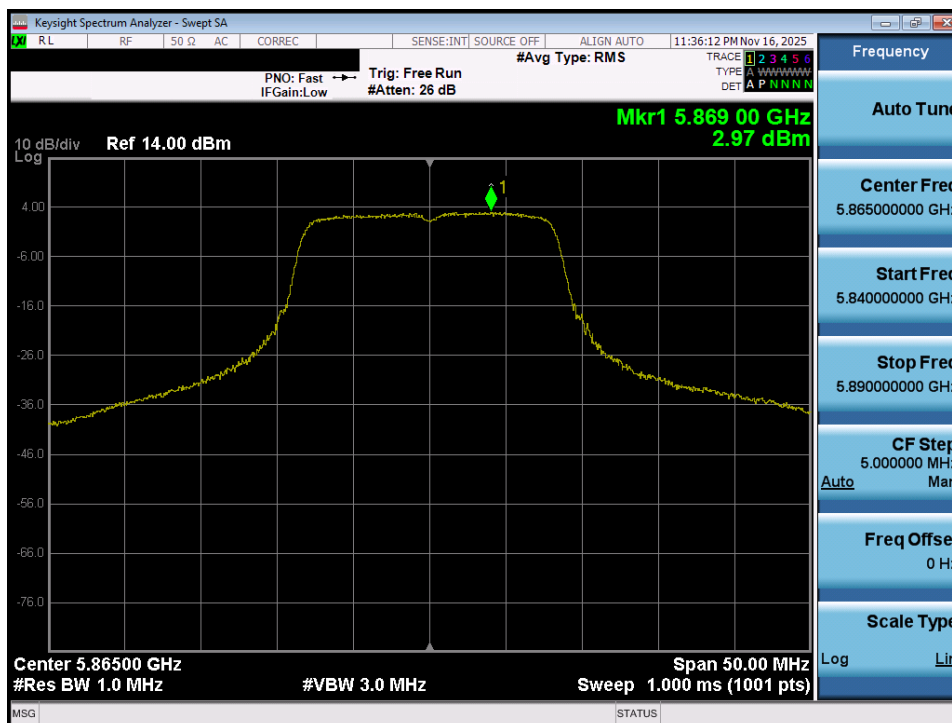


Plot 7-83. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

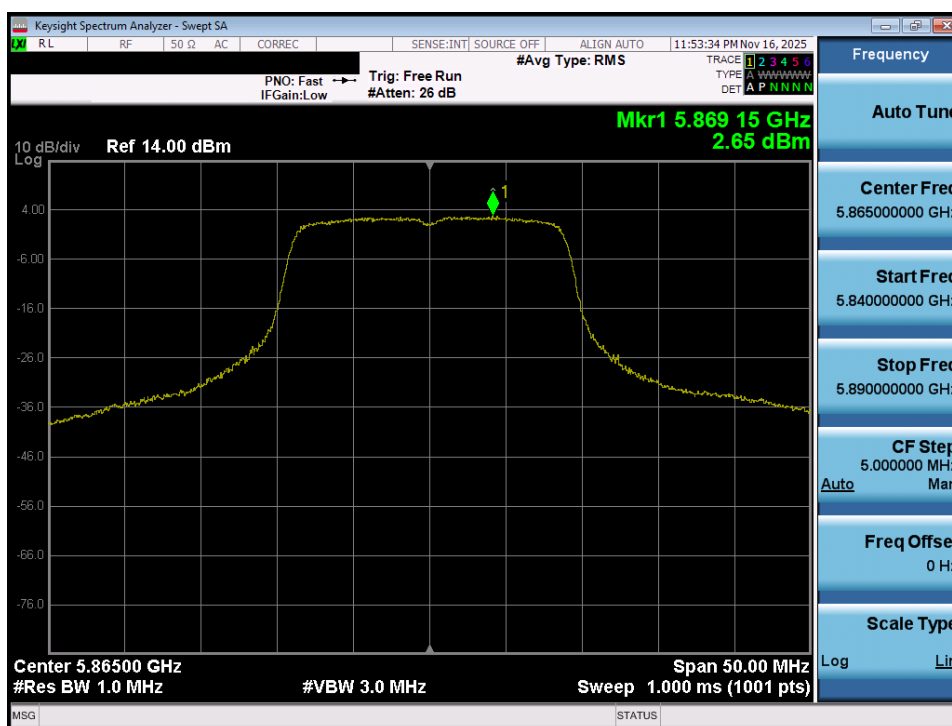


Plot 7-84. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 73 of 124

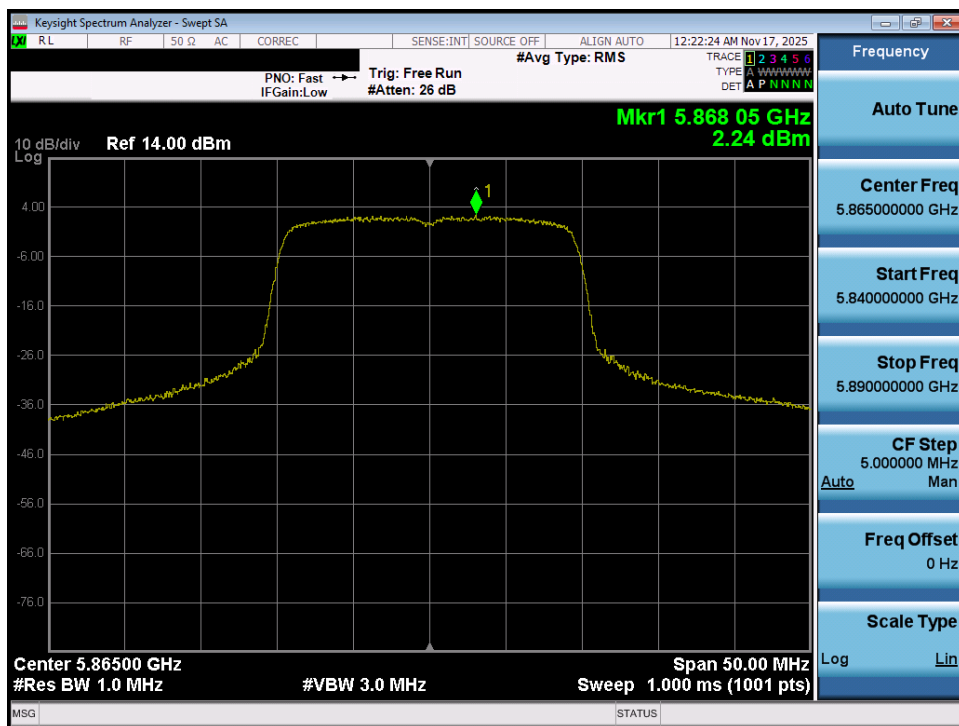


Plot 7-85. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 4) – Ch. 173)

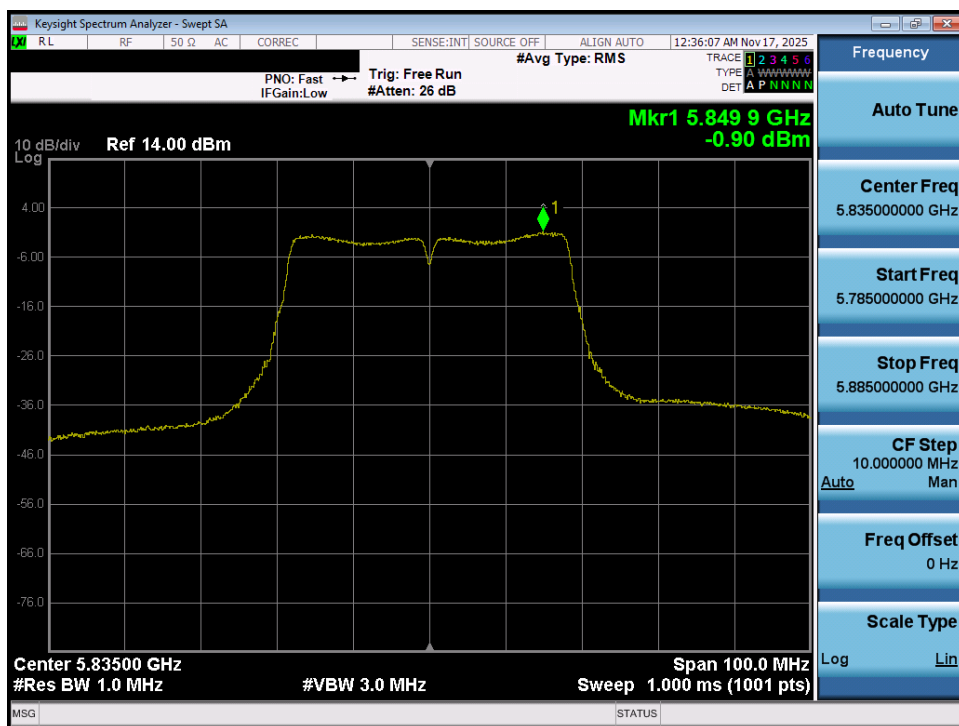


Plot 7-86. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 74 of 124

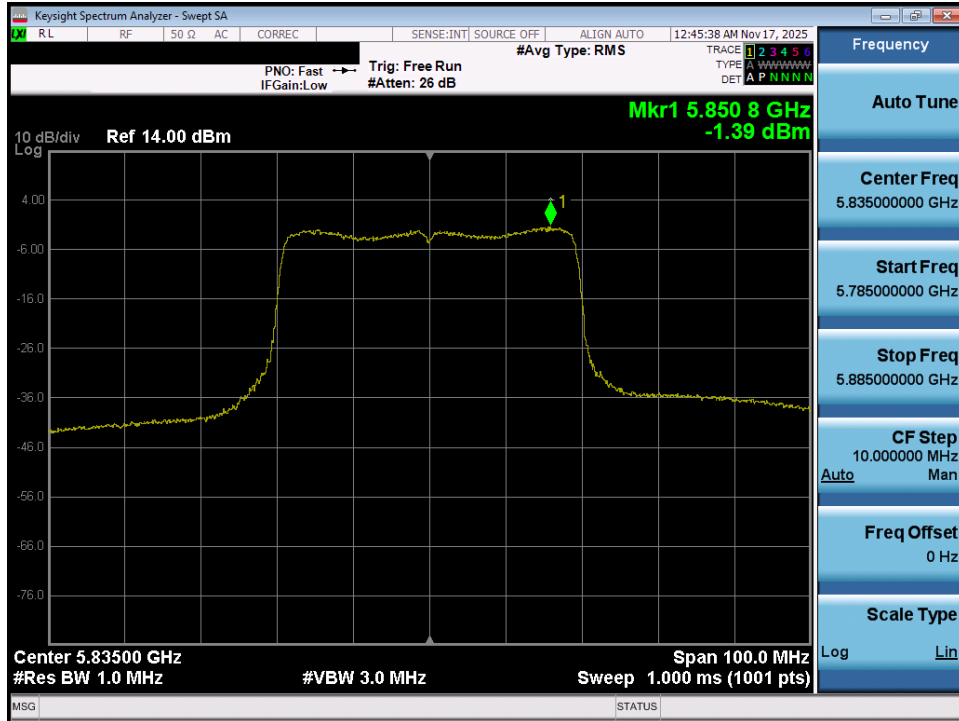


Plot 7-87. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

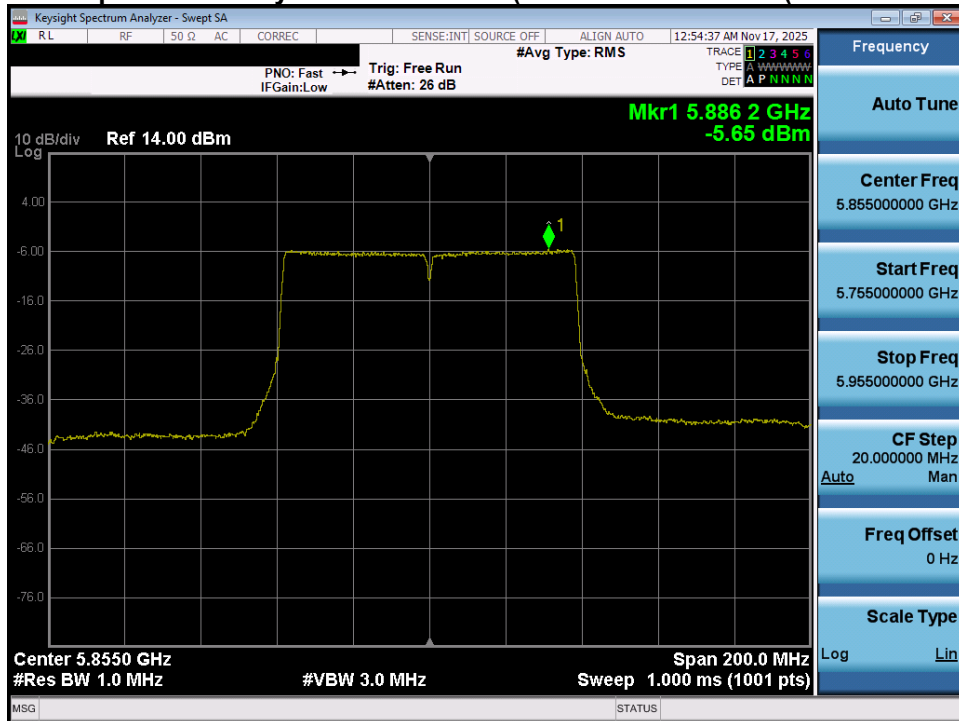


Plot 7-88. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 75 of 124

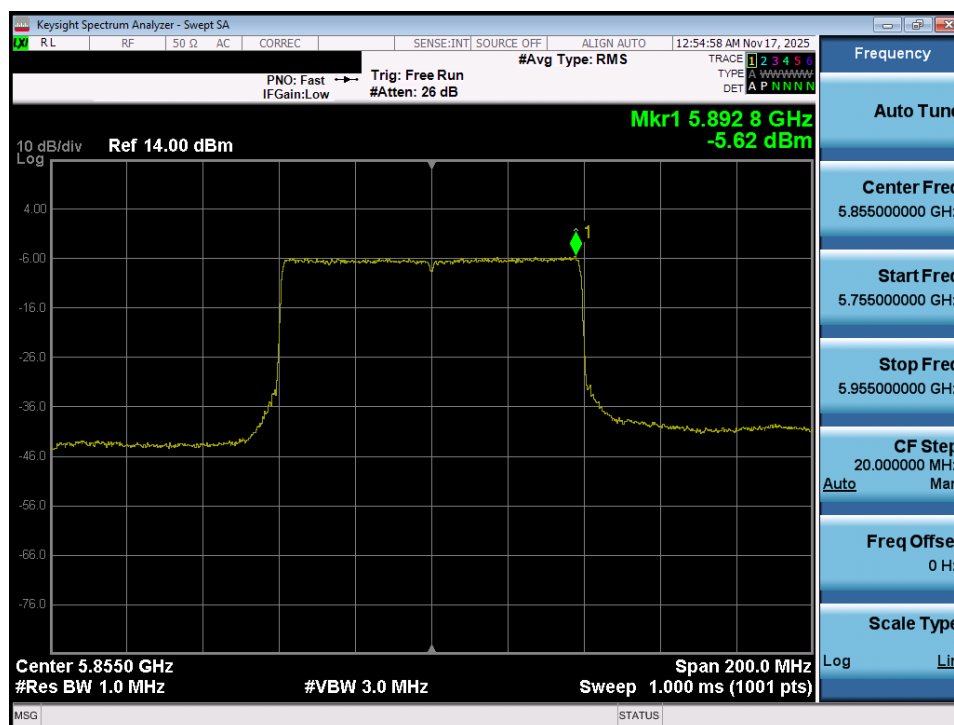


Plot 7-89. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)



Plot 7-90. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

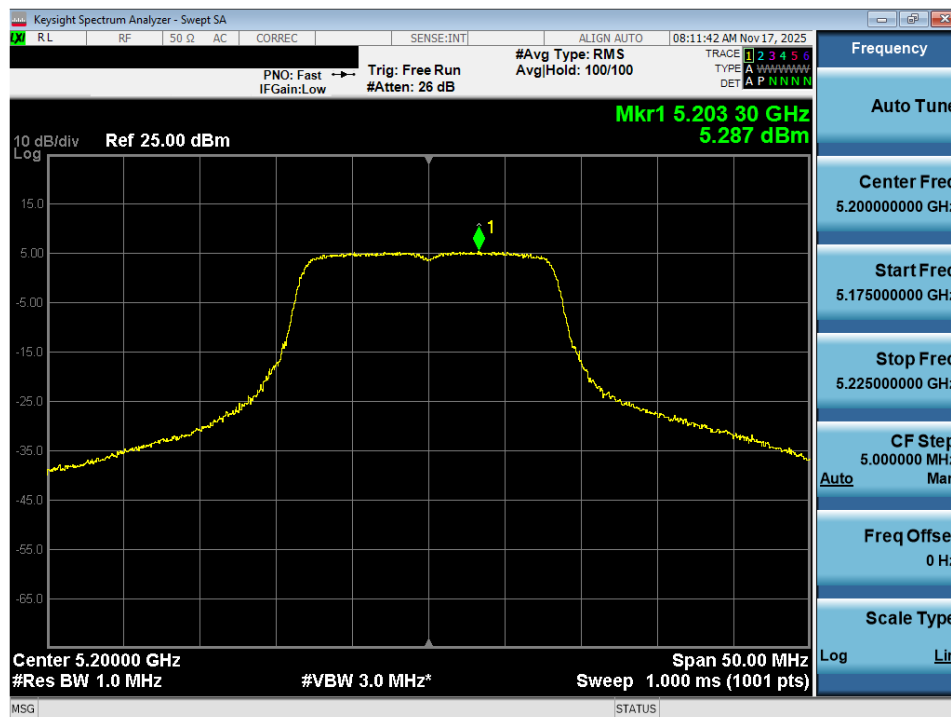
FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 76 of 124



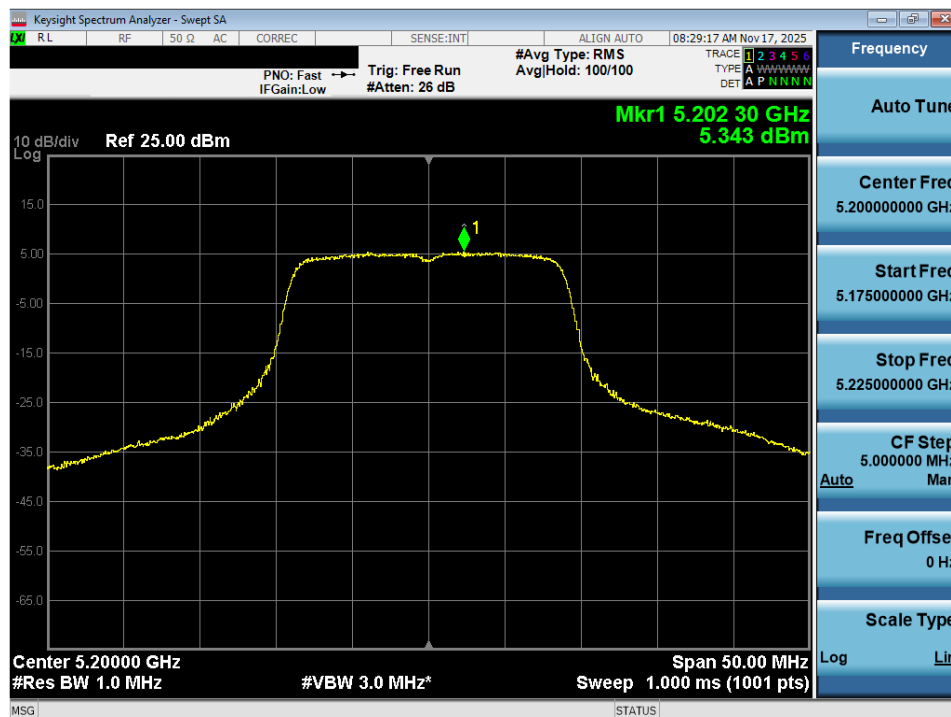
Plot 7-91. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 77 of 124

7.5.2 MIMO Antenna-2 Power Spectral Density Measurements

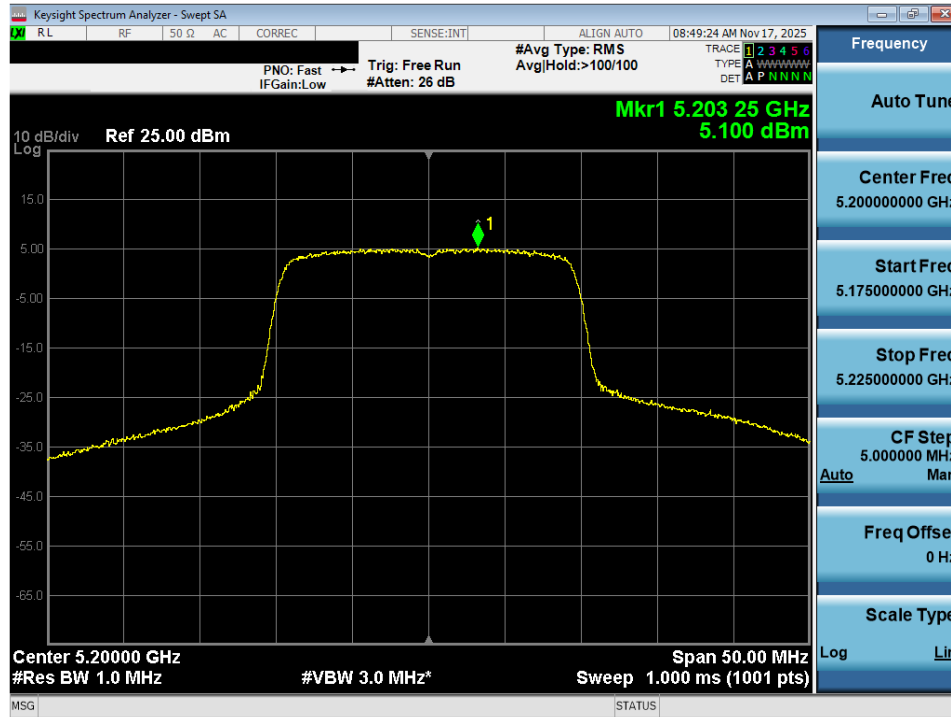


Plot 7-92. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) – Ch. 40)

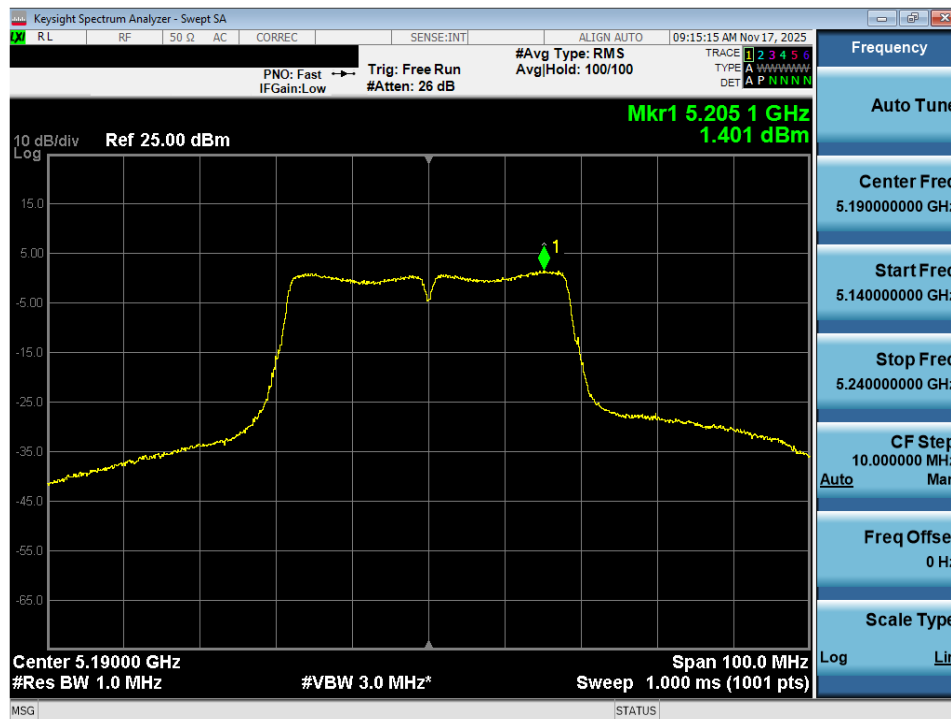


Plot 7-93. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 78 of 124

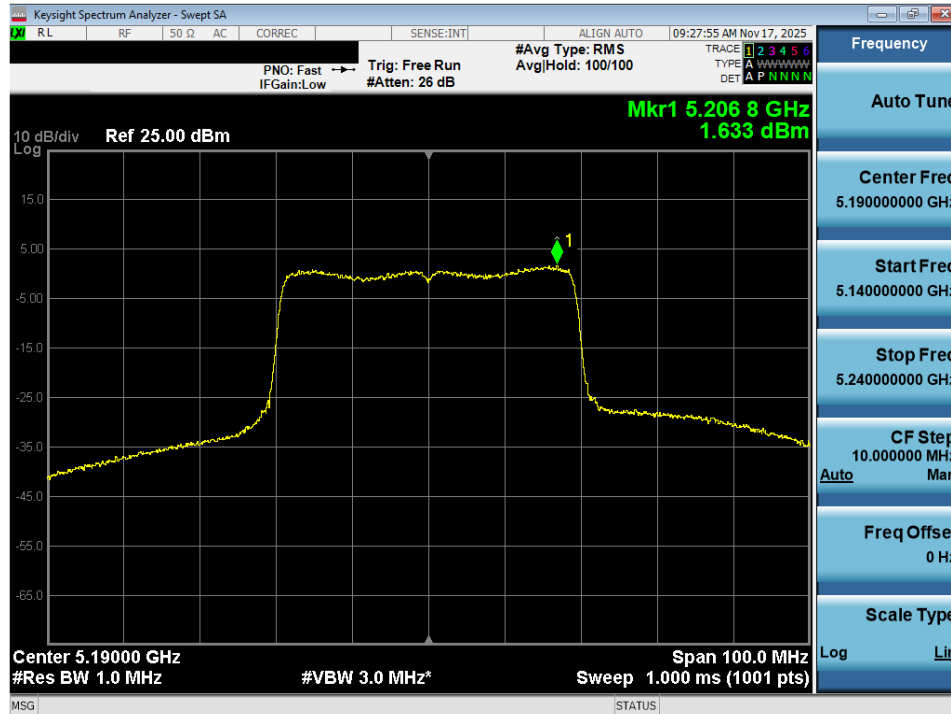


Plot 7-94. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

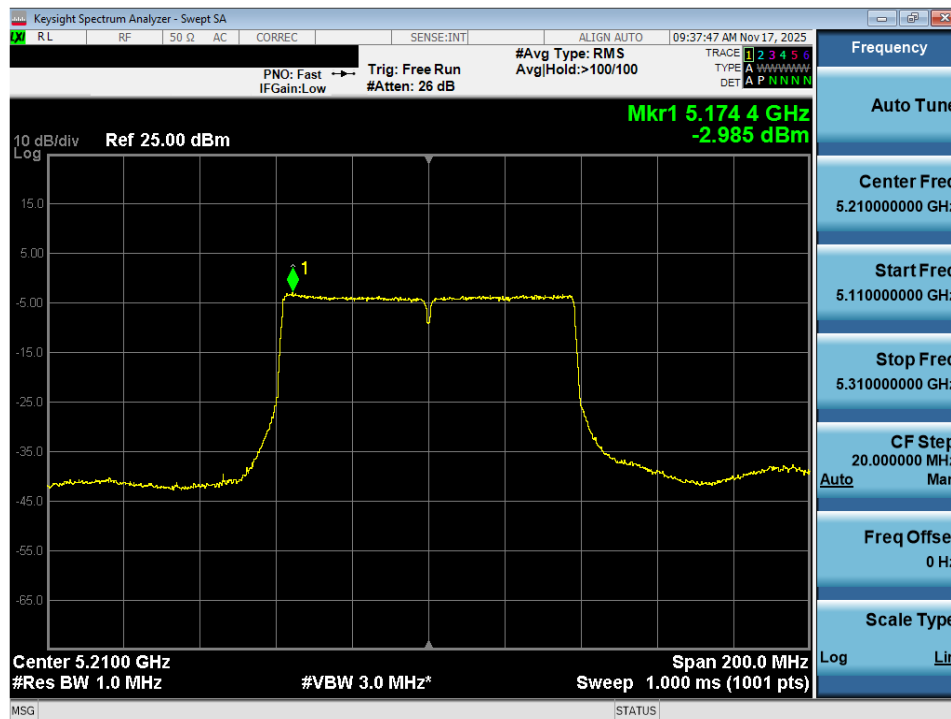


Plot 7-95. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 79 of 124

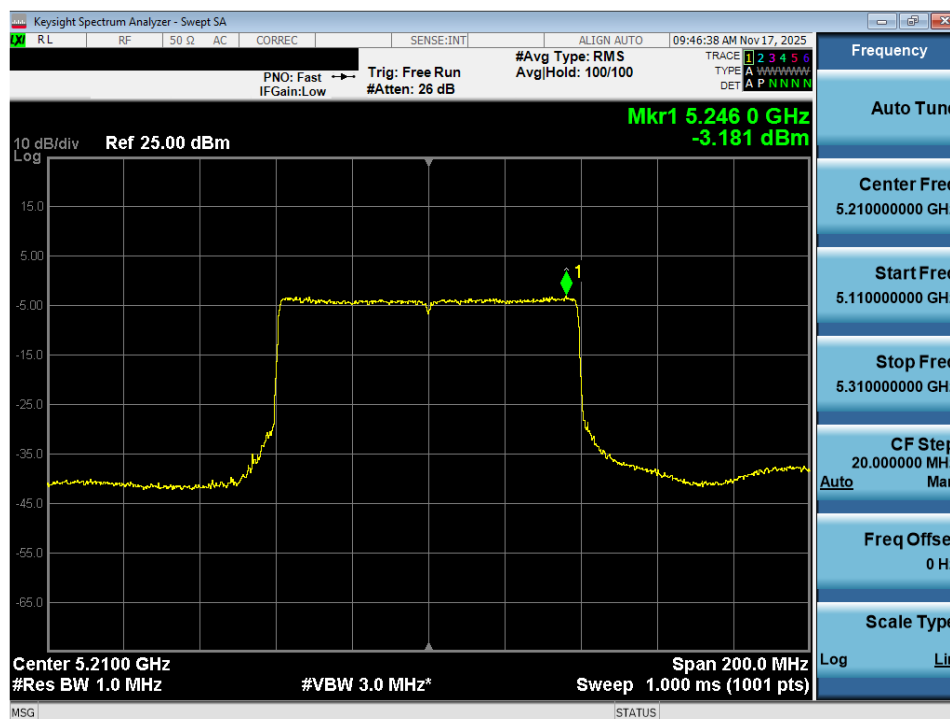


Plot 7-96. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

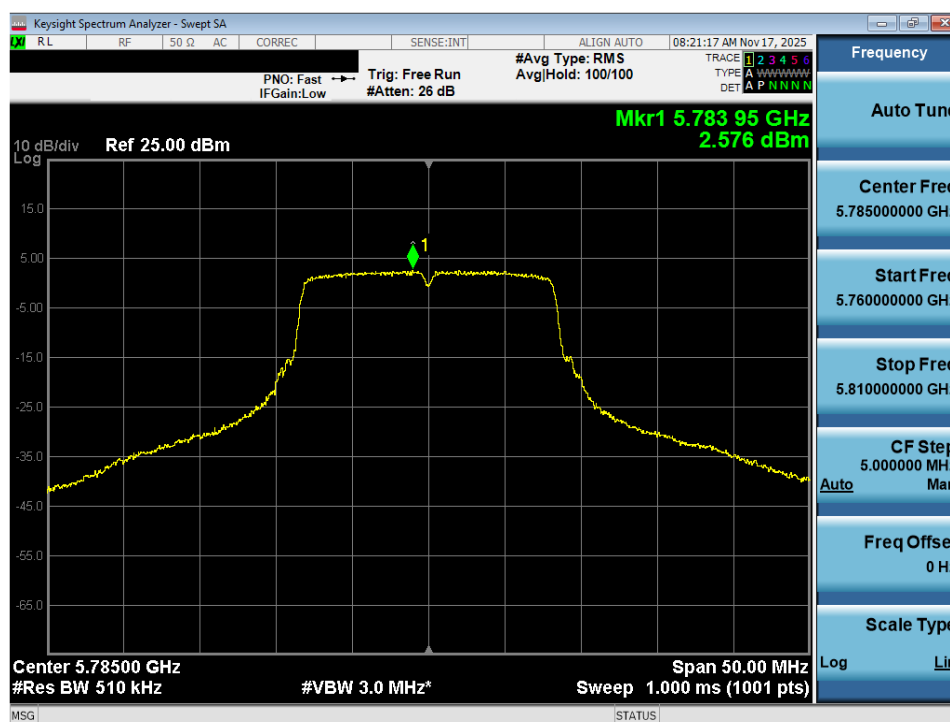


Plot 7-97. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 80 of 124

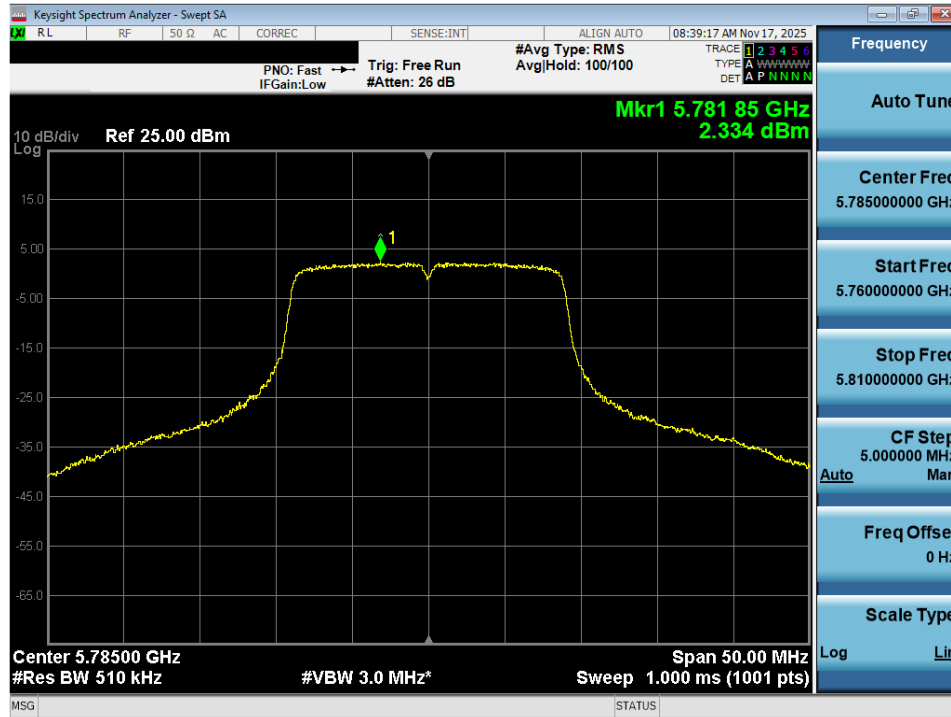


Plot 7-98. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

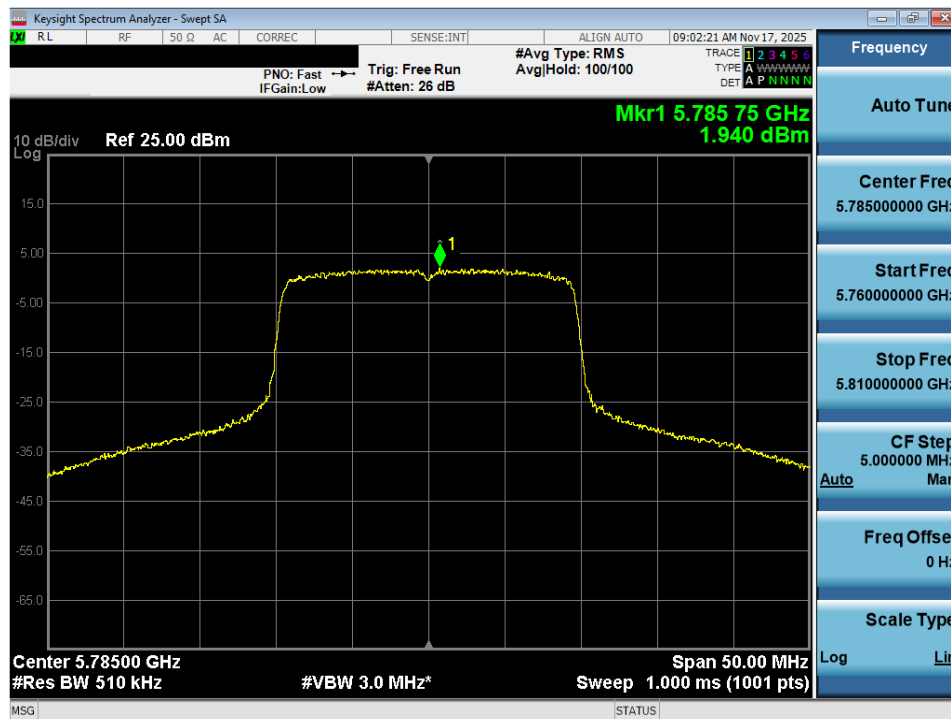


Plot 7-99. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 81 of 124

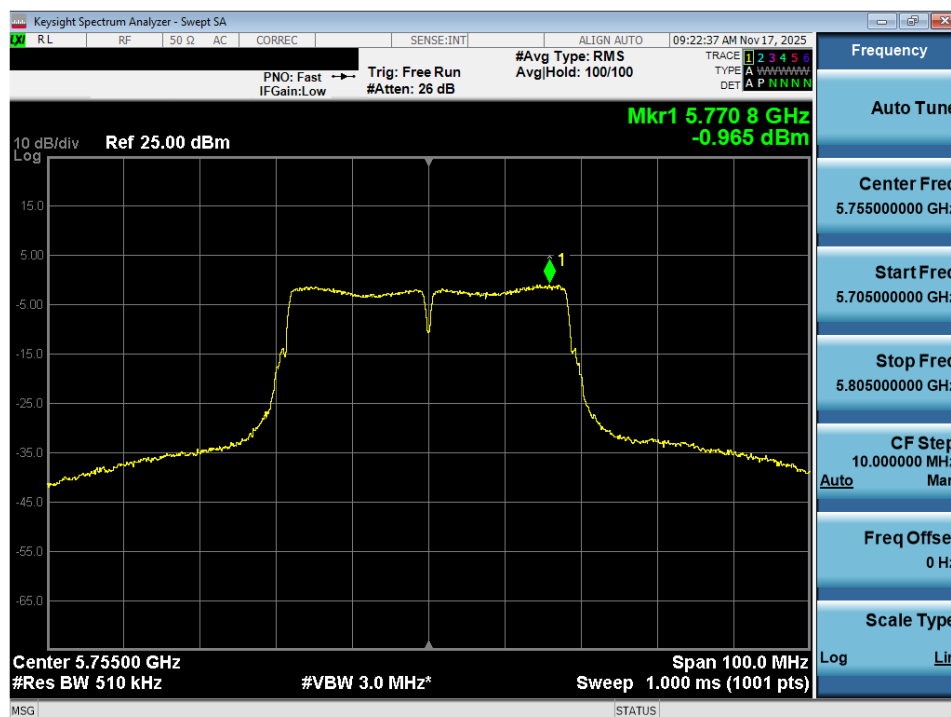


Plot 7-100. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

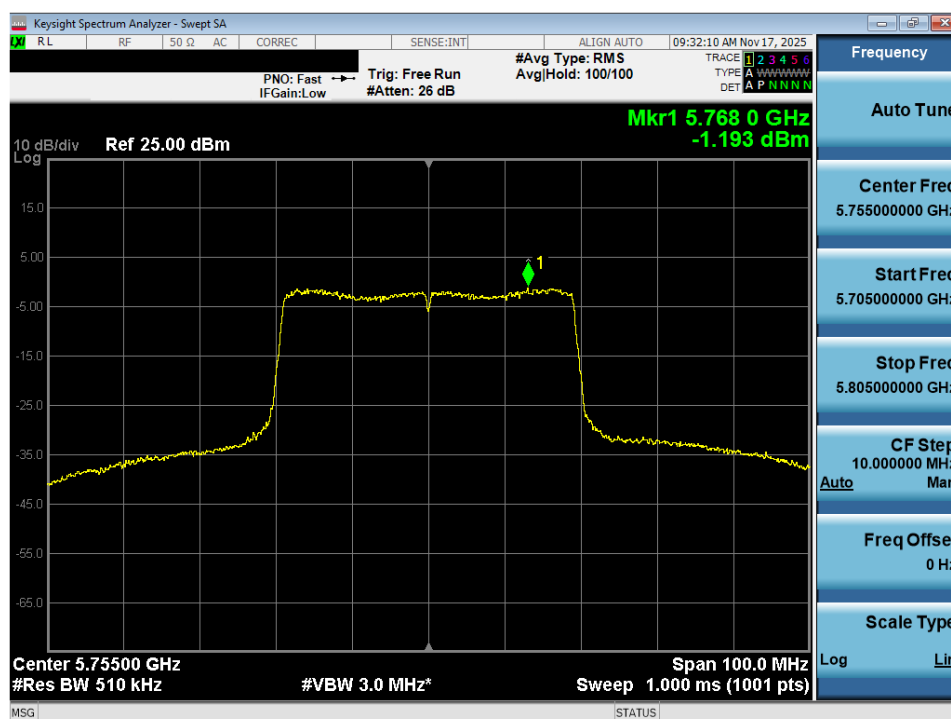


Plot 7-101. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 82 of 124

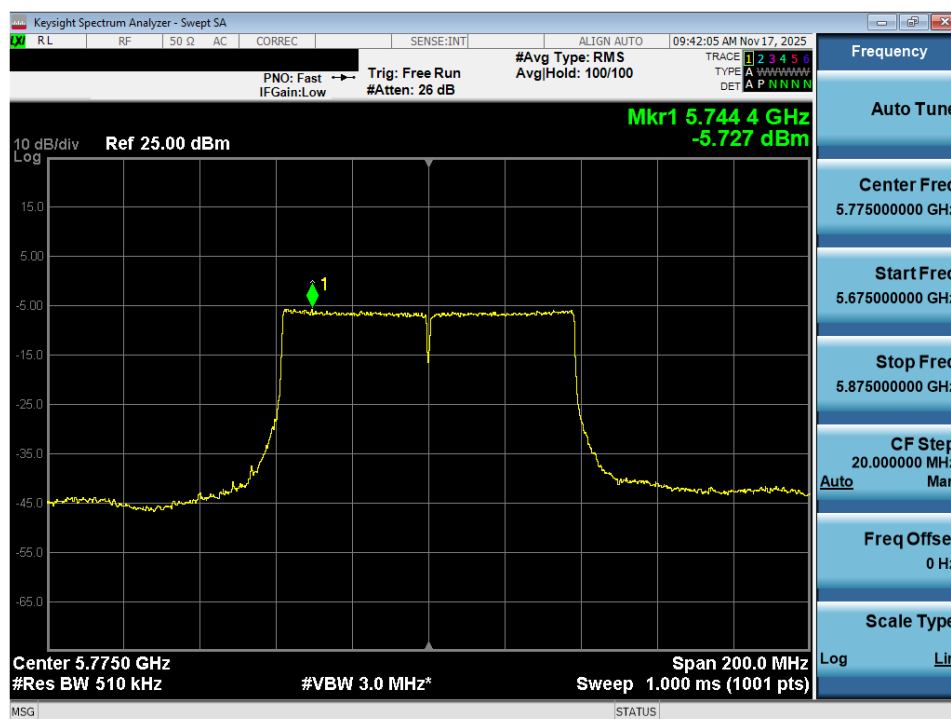


Plot 7-102. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

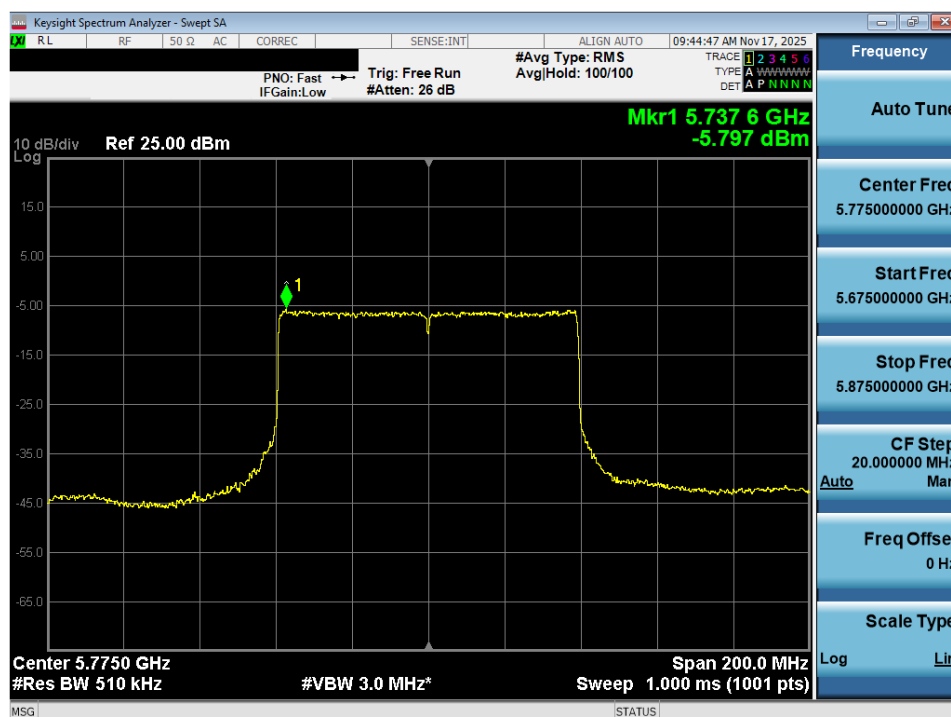


Plot 7-103. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 83 of 124

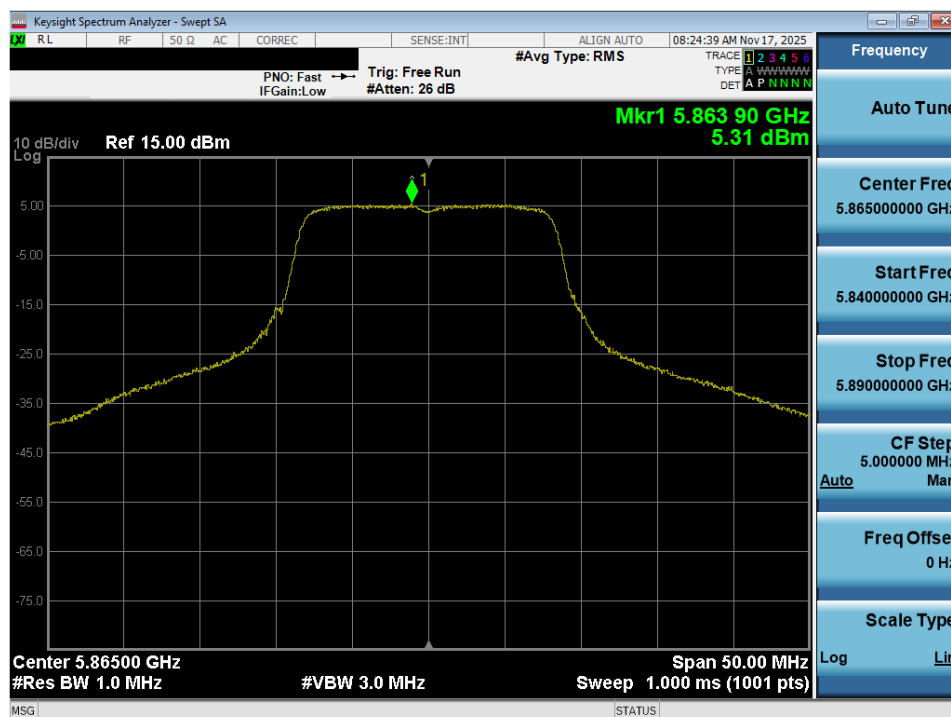


Plot 7-104. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

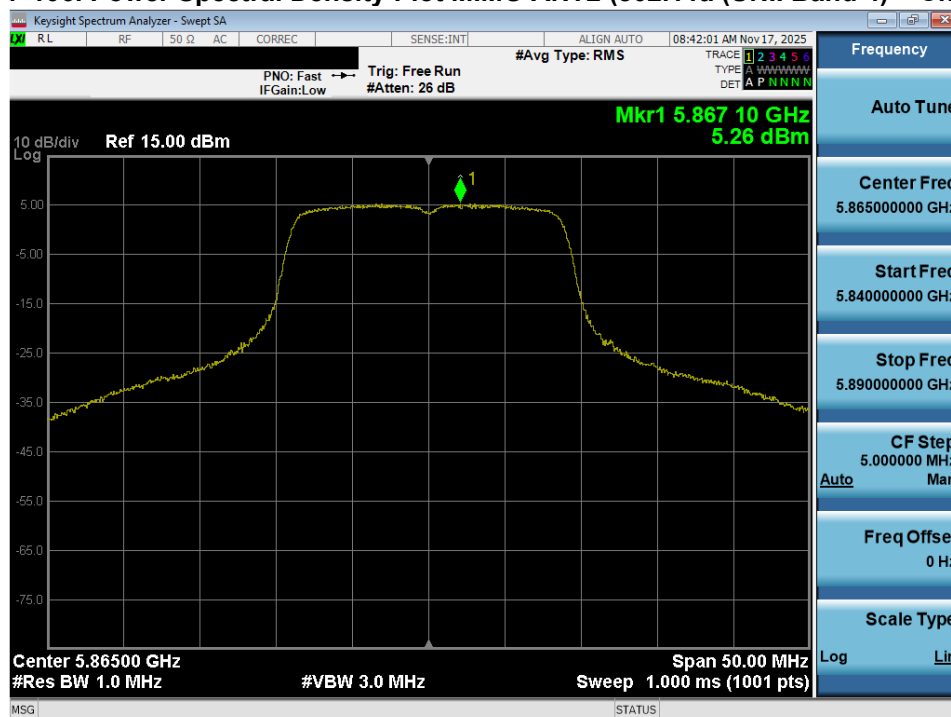


Plot 7-105. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 84 of 124

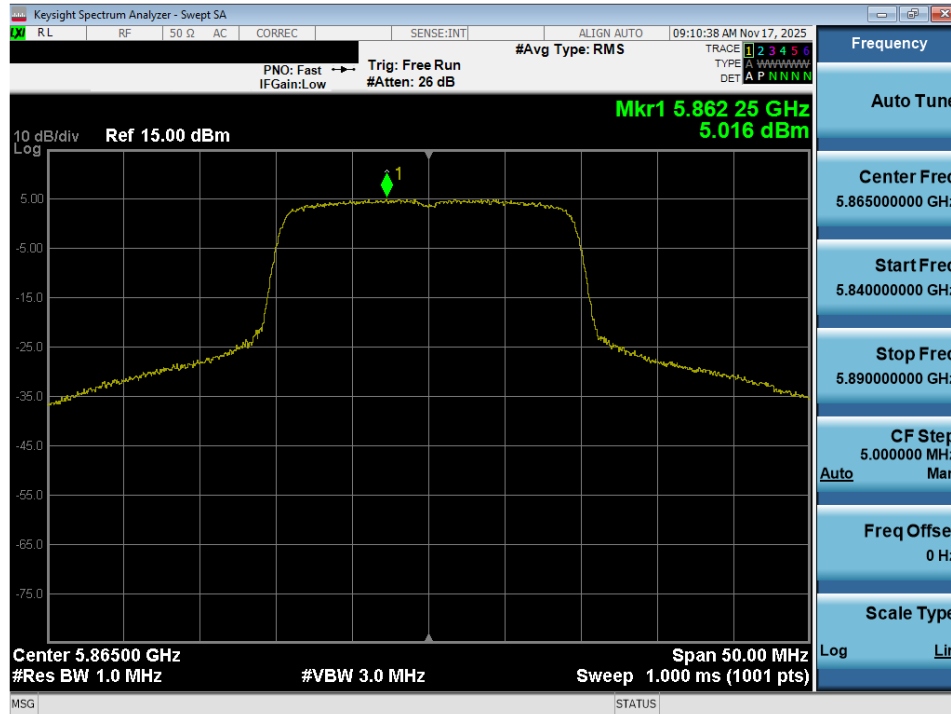


Plot 7-106. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 4) – Ch. 173)

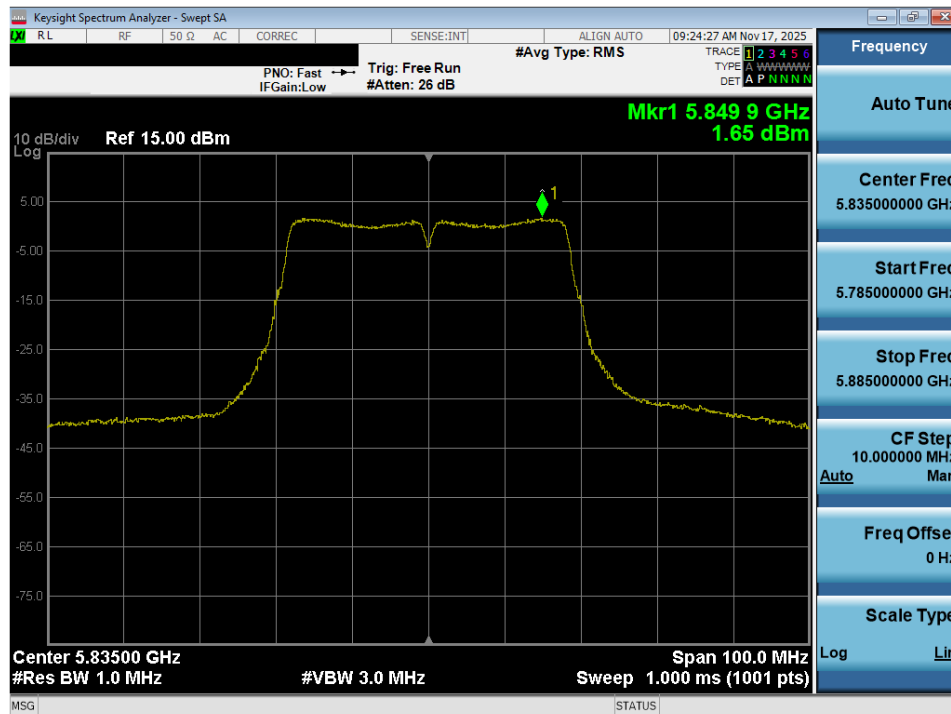


Plot 7-107. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 85 of 124



Plot 7-108. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)



Plot 7-109. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMA576JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2512010100-16.A3L	Test Dates: 10/29/2025-1/28/2026	EUT Type: Portable Handset	Page 86 of 124