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MEASUREMENT REPORT

FCC PART 15.407 / ISED RSS-247 802.11a/n/ac/ax (OFDM)

Applicant Name:

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

Date of Testing:

6/3 - 7/17/2025

Test Report Issue Date:

7/25/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2505130049-07.A3L

FCC ID:

A3LSMX730

IC:

649E-SMX730

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model/HVIN:

SM-X730

EUT Type:

Portable Tablet

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)

ISED Specification(s):

RSS-247 Issue 3

Test Procedure(s):

ANSI C63.10:2020

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



FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 1 of 117

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Channel Bandwidth [MHz]	UNII Band	Tx Frequency [MHz]	MIMO	
			Max. Power [mW]	Max. Power [dBm]
20	1	5180 - 5240	116.68	20.67
	2A	5260 - 5320	121.06	20.83
	2C	5500 - 5720	122.46	20.88
	3	5745 - 5825	61.13	17.86
	4	5845 - 5885	60.11	17.79
40	1	5190 - 5230	98.86	19.95
	2A	5270 - 5310	95.94	19.82
	2C	5510 - 5710	98.86	19.95
	3	5755 - 5795	61.38	17.88
	4	5835 - 5875	49.11	16.91
80	1	5210	40.09	16.03
	2A	5290	55.08	17.41
	2C	5530 - 5690	76.56	18.84
	3	5775	60.67	17.83
	4	5855	38.39	15.84
160	1/2A	5250	23.55	13.72
	2C	5570	42.17	16.25
	3/4	5815	30.49	14.84

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 (2451B) test laboratory with the site description on file with ISED.
- 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 Tablet FCC ID: A3LSMX730, IC:649E-SMX730**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

Test Device Serial No.: 18994, 19091,19042, 18945,19000, 19117, 19075, 24810, 26617, 24869, 26062, 25445, 26591,0AC1P, 0AB5D, 0ACSM, 0AEGE, 0MHEB, 0MHPA

2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), Digitizer

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

Band 1/2A		Band 2C		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
50	5250	114	5570	163	5815

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

Notes:

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- 5GHz NII operation is possible in 20MHz, 40MHz, 80MHz, and 160MHz 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		MIMO (1+2)	
		Duty Cycle [%]	Radiated DCCF [dB]
5GHz	a	98.35	N/A
	n (HT20)	98.71	N/A
	ac (VHT20)	98.68	N/A
	ax (HE20)	98.43	N/A
	n (HT40)	98.70	N/A
	ac (VHT40)	98.71	N/A
	ax (HE40)	98.43	N/A
	ac (VHT80)	98.57	N/A
	ax (HE80)	98.36	N/A
	ac (VHT160)	98.57	N/A
	ax (HE160)	98.41	N/A

Table 2-5. 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 2-6. 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		160MHz		20MHz			40MHz			80MHz			160MHz		
	HT	VHT	HE		0.8µs GI	0.4µs GI	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	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	58.5	65	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3
9	1	1	1	1	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
12	2	2	2	1	19.5	21.7	40.5	45	87.8	97.5	175.5	195	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8
18	3	3	3	1	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
24	4	4	4	1	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
36	5	5	5	1	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
48	6	6	6	1	58.5	65	121.5	135	263.3	292.5	526.5	585	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3
54	7	7	7	1	65	72.2	135	150	292.5	325	585	650	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5
		8	8	1	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
		9	9	1	N/A	N/A	180	200	390	433.3	780	866.7	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7
			10	1									129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8
			11	1									143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8
6	8	0	0	2	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
9	9	1	1	2	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
12	10	2	2	2	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
18	11	3	3	2	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
24	12	4	4	2	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
36	13	5	5	2	104	115.6	216	240	468	520	936	1040	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980
48	14	6	6	2	117	130	243	270	526.5	585	1053	1170	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5
54	15	7	7	2	130	144.4	270	300	585	650	1170	1300	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225
		8	8	2	156	173.3	324	360	702	780	1404	1560	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470
		9	9	2	N/A	N/A	360	400	780	866.7	1560	1733.3	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3
			10	2									258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5
			11	2									286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7

Table 2-7. Supported Data Rates

2.3 Antenna Description

The following antenna gains were used for the testing.

Frequency [GHz]	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional Gain (dBi)
5.20	-9.5	-5.1	-4.01
5.30	-9.6	-4.8	-3.86
5.50	-7.8	-5.5	-3.56
5.80	-7.3	-5.1	-3.12
5.85	-6.9	-5.2	-3.00

Table 2-8. 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 X730XXU0AYG7 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: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	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
-	MD 1M 18-40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 18-40
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	ETS-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	ETS-001
Agilent	N9038A	MXE EMI Receiver	9/16/2024	Annual	9/16/2025	MY51210133
Agilent	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Agilent	N9030A	PXA Signal Analyzer (44GHz)	10/16/2024	Annual	10/16/2025	MY49430494
Anritsu	MA24408A	Microwave Peak Power Sensor	10/2/2024	Annual	10/2/2025	11675
EMCO	3115	Horn Antenna (1- 18GHz)	9/6/2024	Biennial	9/6/2025	9704-5182
EMCO	3116	Horn Antenna (18-40GHz)	7/5/2023	Biennial	7/5/2025	9203-2178
ETS-Lindgren	3116C	Horn Antenna (18-40GHz)	4/22/2025	Biennial	4/22/2027	218893
Keysight Technologies	N9020A	MXA Signal Analyzer	2/7/2025	Annual	2/7/2026	MY53421544
Keysight Technologies	N9030A	PXA Signal Analyzer	8/26/2024	Annual	8/26/2025	MY54490576
Keysight Technologies	N9030B	PXA Signal Analyzer	9/19/2024	Annual	9/19/2025	MY57141001
Pasternack	NMLC-2	Line Conducted Emissions Cable	3/25/2025	Annual	3/25/2026	NMLC-2
Rohde & Schwarz	TC-TA18	Vivaldi Antenna	4/15/2024	Biennial	4/15/2026	101058
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	11/25/2024	Annual	11/25/2025	100348
Rohde & Schwarz	ESW44	EMI Test Receiver (44GHz)	3/25/2025	Annual	3/25/2026	101716
Sunol	JB6	Bi-Log Antenna (20M-6GHz)	3/24/2025	Biennial	3/25/2027	A082816
Sunol	JB5	Bi-Log Antenna (20M-5GHz)	9/11/2024	Biennial	9/11/2026	A051107

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: A3LSMX730 IC: 649E-SMX730	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
Sucoflex Cable 106A	246420-001
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 6-5. ETS-001 EMC Cable and Switch System Components

Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utiflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utiflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-002
MegaPhase Cable NC29-N1N1-324	19046401 001
MegaPhase Flex Cable 10511-1	15044701-006
Micro-Coas Utiflex Cable UFB311A-Q-3446-50U50U MFR 64639	231978-002
Micro-Coas Utiflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-001
Micro-Coas Utiflex Cable UFB142A-0-0659-50U50U MFR 64639	232069-001
Rohde & Schwarz SF Unit	102138

Table 6-6. AP2-001 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 6-7. MD 1M 18-40 EMC Cable and Switch System Components

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 13 of 117

7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMX730
 IC: 649E-SMX730
 FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference	Data Reference
N/A	RSS-Gen [6.6]	26dB Bandwidth	N/A	CONDUCTED	PASS	Section 7.2	Yes
15.407(e)	RSS-Gen [6.6]	6dB Bandwidth	>500kHz(5725-5850MHz and 5850 – 5895MHz)		PASS	Section 7.3	Yes
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)	RSS-247 [6.2]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.4	Yes
15.407(a)(3)(iii)	RSS-247 [6.2]	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)	RSS-247 [6.2]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) and RSS-247 [6.2] (UNII-1 through -3) <14dBm/MHz (UNII-4)		PASS	Section 7.5	Yes
15.407(h)	RSS-247 [6.3]	Dynamic Frequency Selection	See DFS Test Report		PASS	See DFS Test Report	No
15.407(b)(1) – (b)(5)	RSS-247 [6.2]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [6.2])	RADIATED	PASS	Section 7.6	Yes
15.205, 15.407(b)(1) – (b)(5)	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.6	Yes
15.407	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	LINE CONDUCTED	PASS	Section 7.7	Yes

Table 7-1. Summary of Test Results

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 14 of 117

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 "UNII Automation," Version 4.7.
- 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 1.5.0.
- 6) Data was leveraged from model SM-X736B for the certification of SM-X730. See Section 9.0 for spot-check results.

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 15 of 117

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: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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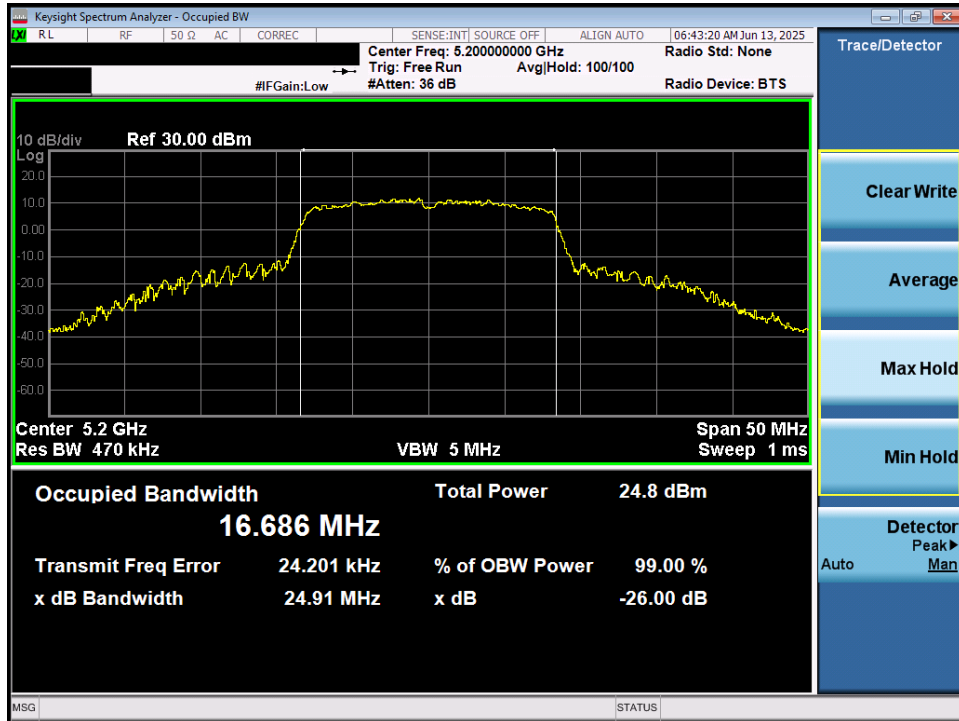
MIMO 26dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 1	5180	36	a	24.97	24.62	16.62	16.60
	5200	40	a	24.91	23.77	16.69	16.56
	5240	48	a	22.64	21.65	16.55	16.50
	5180	36	n	23.14	24.45	17.55	17.53
	5200	40	n	21.18	22.48	17.52	17.50
	5240	48	n	21.66	21.66	17.47	17.46
	5180	36	ax SU	20.16	20.18	18.84	18.82
	5200	40	ax SU	20.17	20.19	18.85	18.84
	5240	48	ax SU	20.18	20.22	18.82	18.84
	5190	38	n	39.71	39.39	35.91	35.92
	5230	46	n	39.21	38.93	35.88	35.87
	5190	38	ax SU	44.95	44.84	37.90	37.91
	5230	46	ax SU	42.65	43.26	37.83	37.80
	5210	42	ac	104.70	103.78	76.06	76.03
Band 1/2A	5210	42	ax SU	90.09	94.45	77.22	77.44
	5250	50	ac	164.32	166.51	154.12	154.23
Band 2A	5250	50	ax SU	176.47	169.92	156.21	156.05
	5260	52	a	21.84	23.47	16.63	16.55
	5280	56	a	22.39	21.28	16.55	16.52
	5320	64	a	24.72	24.95	16.67	16.57
	5260	52	n	21.95	21.53	17.50	17.44
	5280	56	n	23.04	24.67	17.51	17.50
	5320	64	n	23.00	24.74	17.55	17.52
	5260	52	ax SU	20.19	20.16	18.83	18.81
	5280	56	ax SU	20.15	20.19	18.80	18.84
	5320	64	ax SU	20.20	20.16	18.84	18.83
	5270	54	n	39.19	39.02	35.92	35.90
	5310	62	n	39.54	39.76	35.98	35.92
	5270	54	ax SU	42.21	44.48	37.79	37.91
	5310	62	ax SU	45.44	44.88	37.87	37.88
	5290	58	ac	108.30	104.68	76.25	75.97
	5290	58	ax SU	87.91	93.77	77.19	77.49
Band 2C	5500	100	a	24.51	23.62	16.65	16.59
	5600	120	a	22.22	24.60	16.62	16.58
	5720	144	a	25.74	23.33	16.76	16.63
	5500	100	n	24.05	25.45	17.52	17.55
	5600	120	n	22.14	26.14	17.52	17.64
	5720	144	n	24.85	24.92	17.58	17.57
	5500	100	ax SU	20.14	20.21	18.79	18.78
	5600	120	ax SU	20.15	20.11	18.78	18.84
	5720	144	ax SU	20.21	20.22	18.81	18.82
	5510	102	n	40.10	43.92	35.93	36.01
	5590	118	n	39.60	46.34	35.93	36.05
	5710	142	n	41.37	45.23	36.04	35.97
	5510	102	ax SU	45.60	45.75	37.89	37.92
	5590	118	ax SU	43.81	46.13	37.91	37.99
	5710	142	ax SU	44.09	45.95	37.95	37.88
	5530	106	ac	106.50	103.07	76.07	76.07
	5610	122	ac	80.52	82.88	75.54	75.67
	5690	138	ac	80.83	88.32	75.60	75.73
	5530	106	ax SU	90.45	93.45	77.24	77.40
	5610	122	ax SU	86.28	91.13	76.98	77.15
	5690	138	ax SU	86.00	95.49	76.95	77.35
	5570	114	ac	166.71	169.14	154.15	154.42
	5570	114	ax SU	177.01	169.83	156.20	156.12

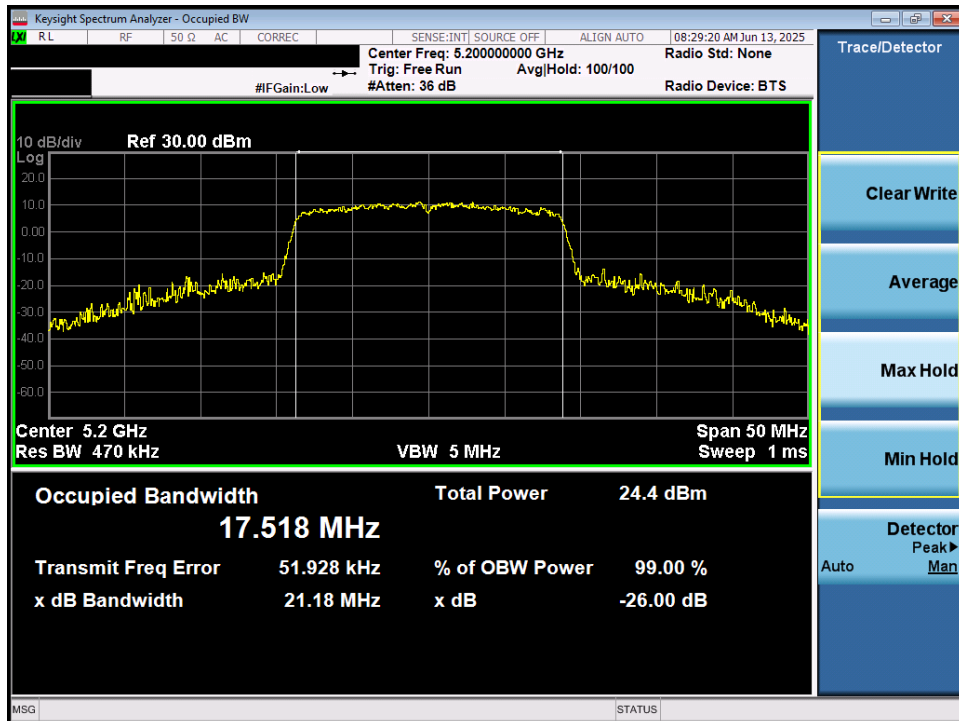
Table 7-2. Bands 1, 2A, 2C Conducted 26dB Bandwidth Measurements MIMO

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 17 of 117

7.2.1 MIMO Antenna-1 26dB Bandwidth Measurements

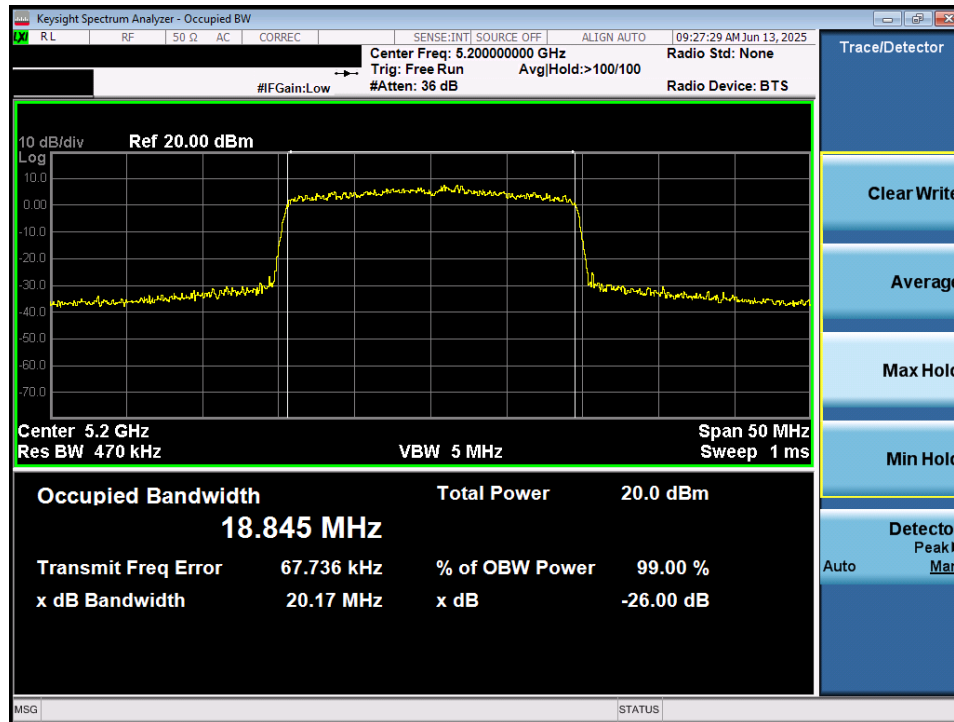


Plot 7-1. 26dB Bandwidth Plot MIMO ANT1 (802.11a (UNII Band 1) – Ch. 40)

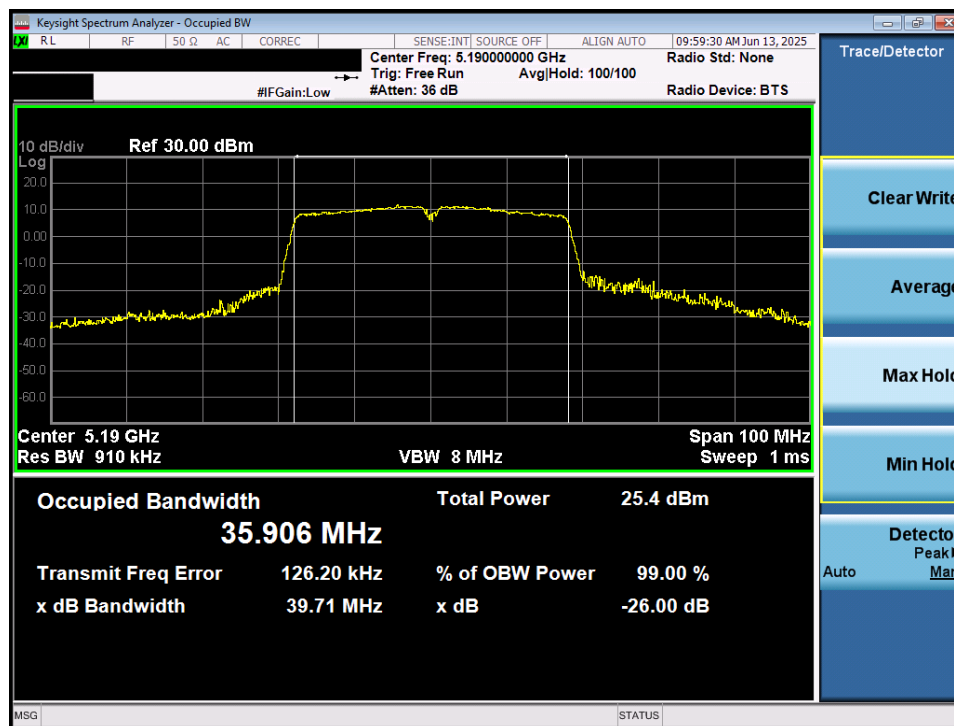


Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 18 of 117

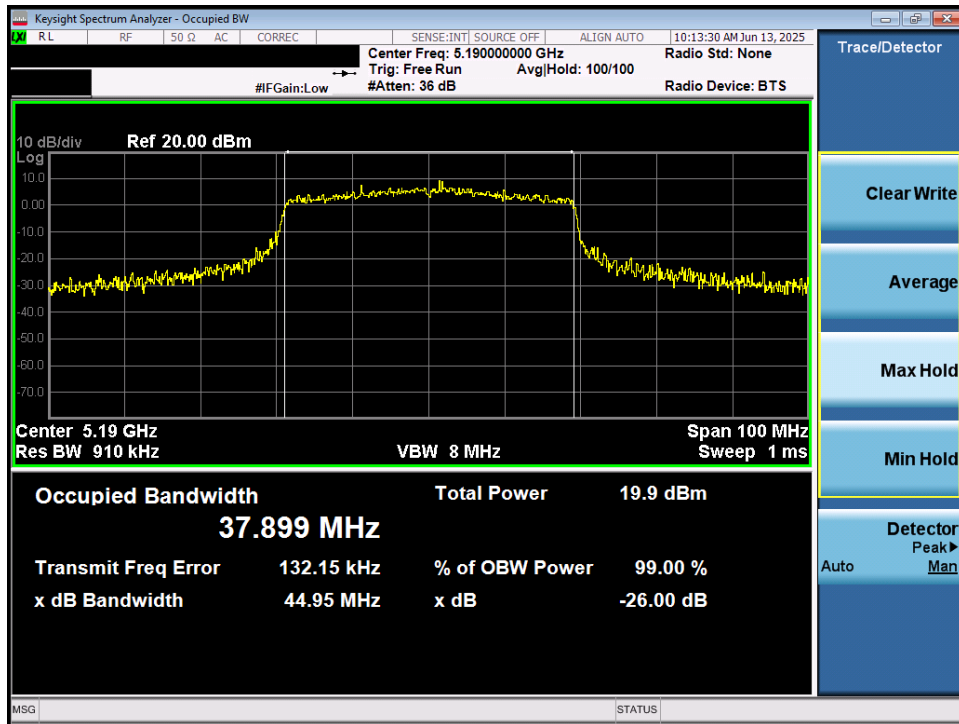


Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)



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

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 19 of 117

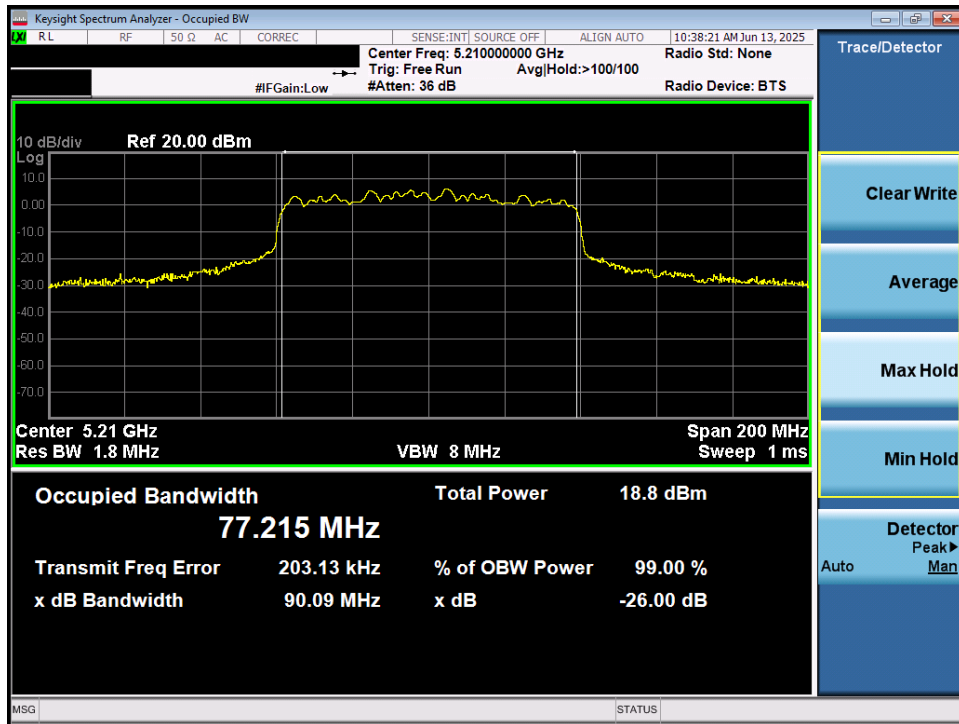


Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

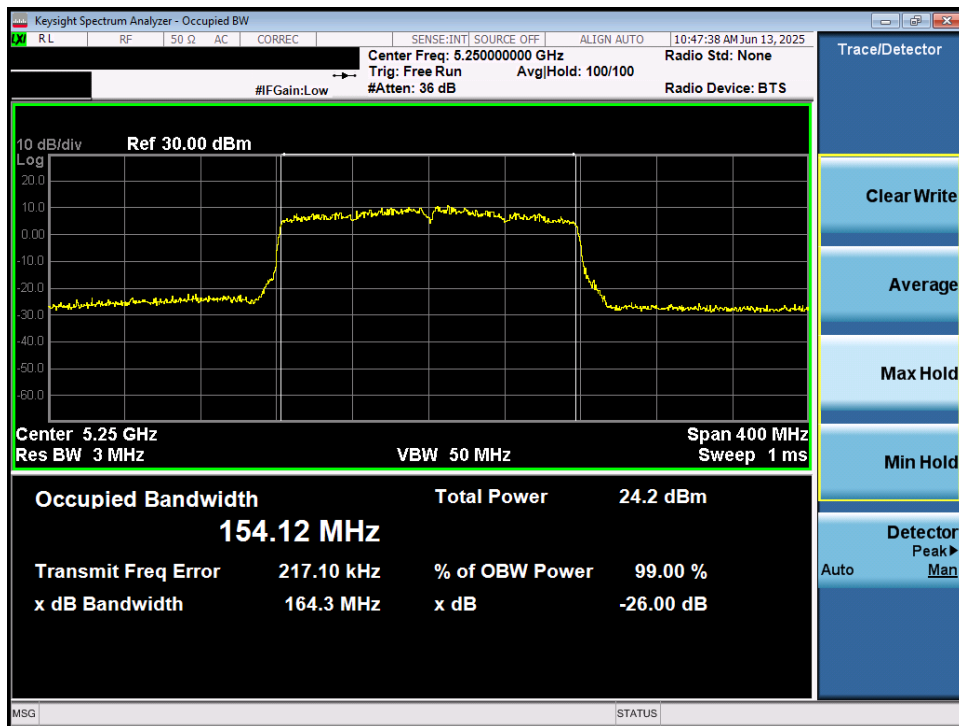


Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 20 of 117

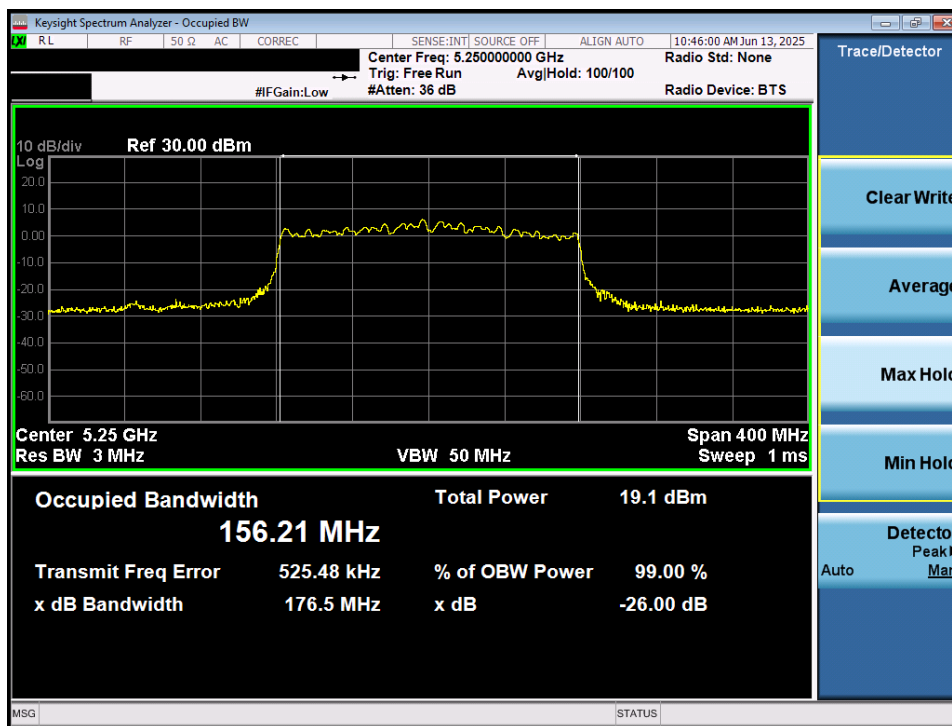


Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)



Plot 7-8. 26dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 21 of 117



Plot 7-9. 26dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 22 of 117

7.2.2 MIMO Antenna-2 26dB Bandwidth Measurements

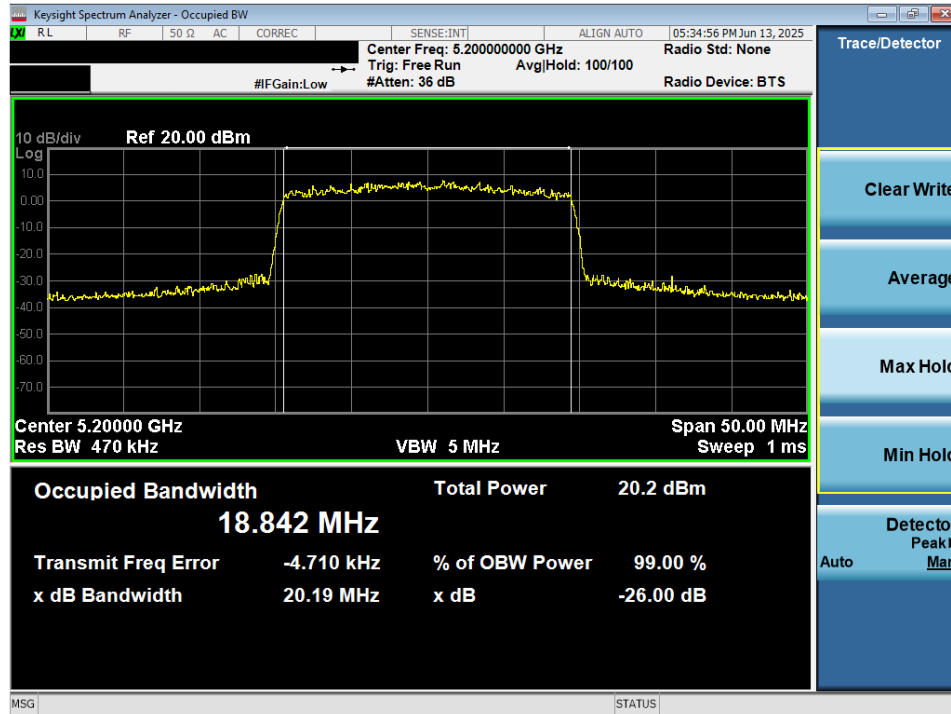


Plot 7-10. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 1) – Ch. 40)

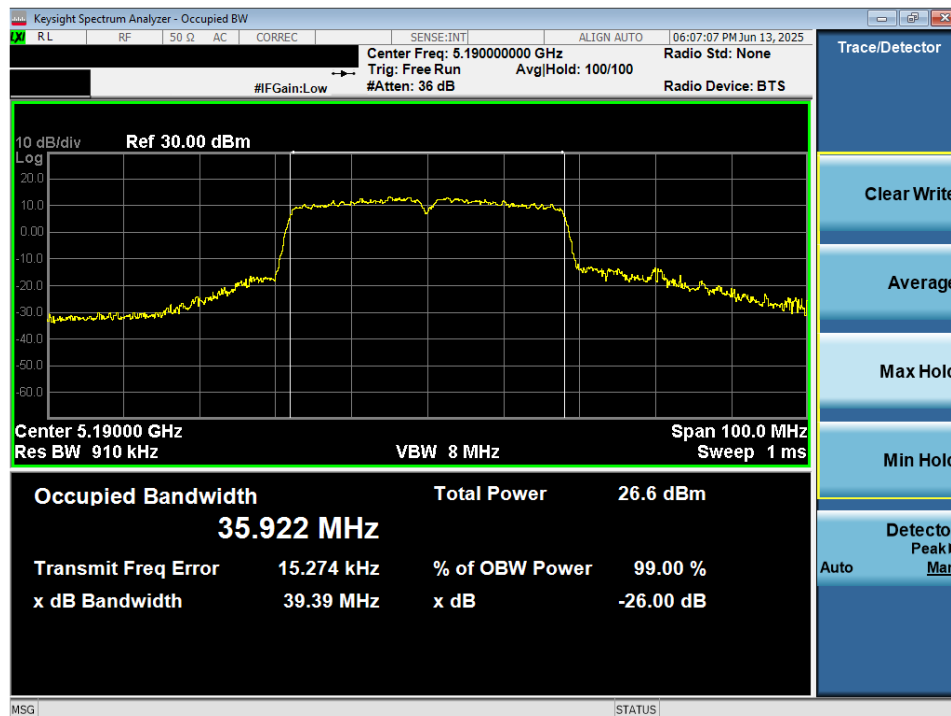


Plot 7-11. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 23 of 117

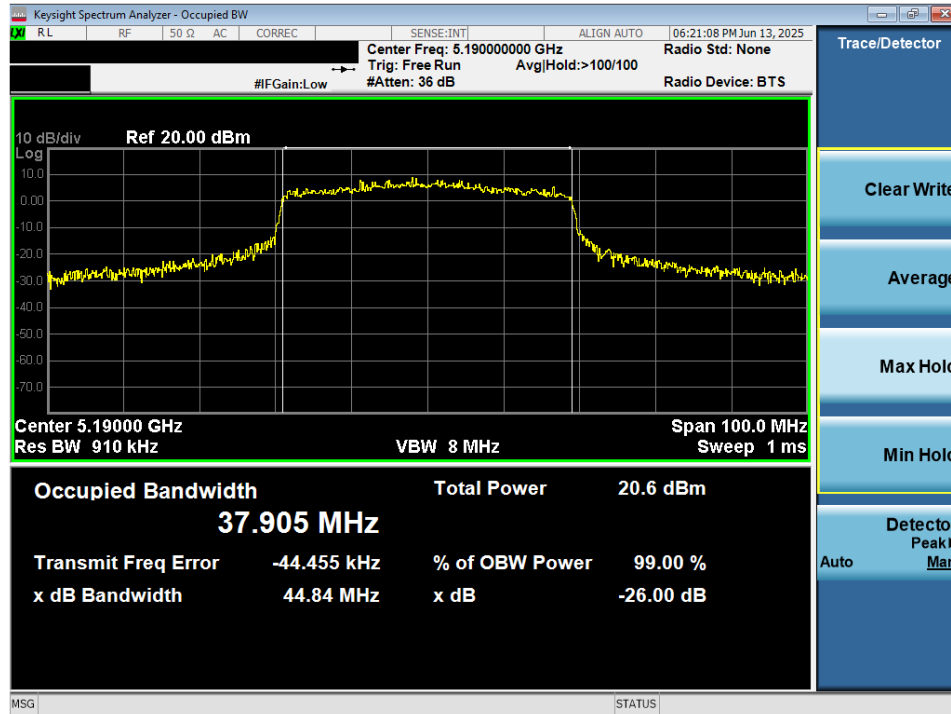


Plot 7-12. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

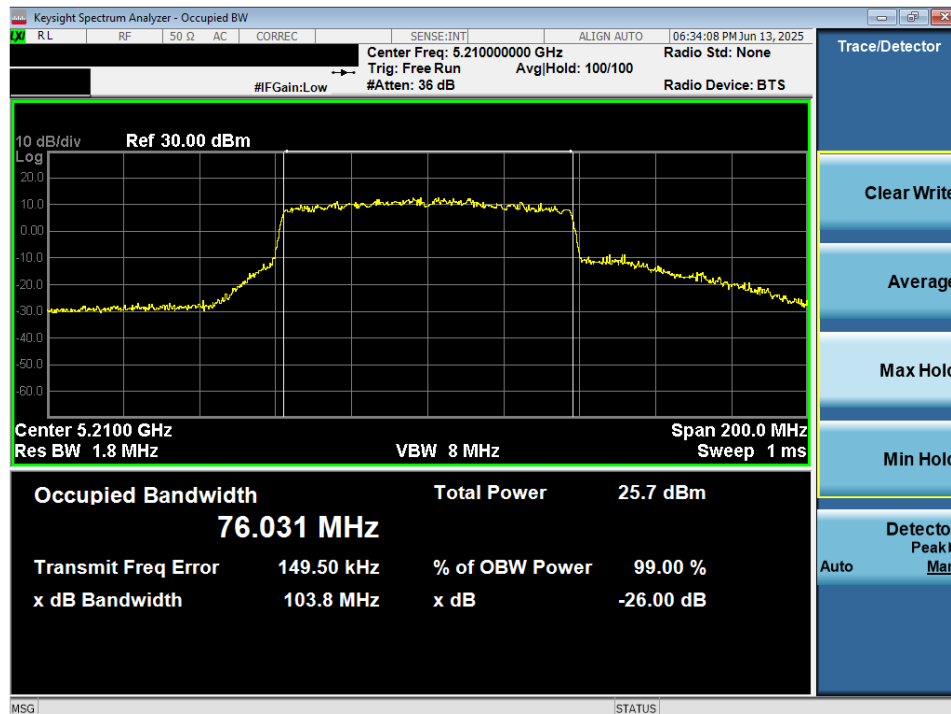


Plot 7-13. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 24 of 117

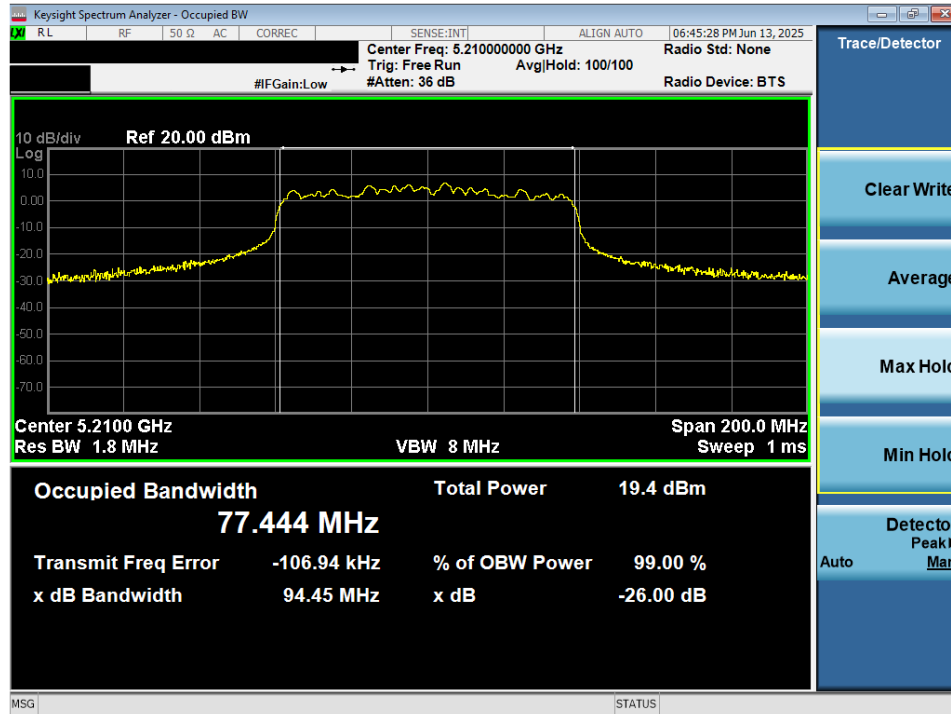


Plot 7-14. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

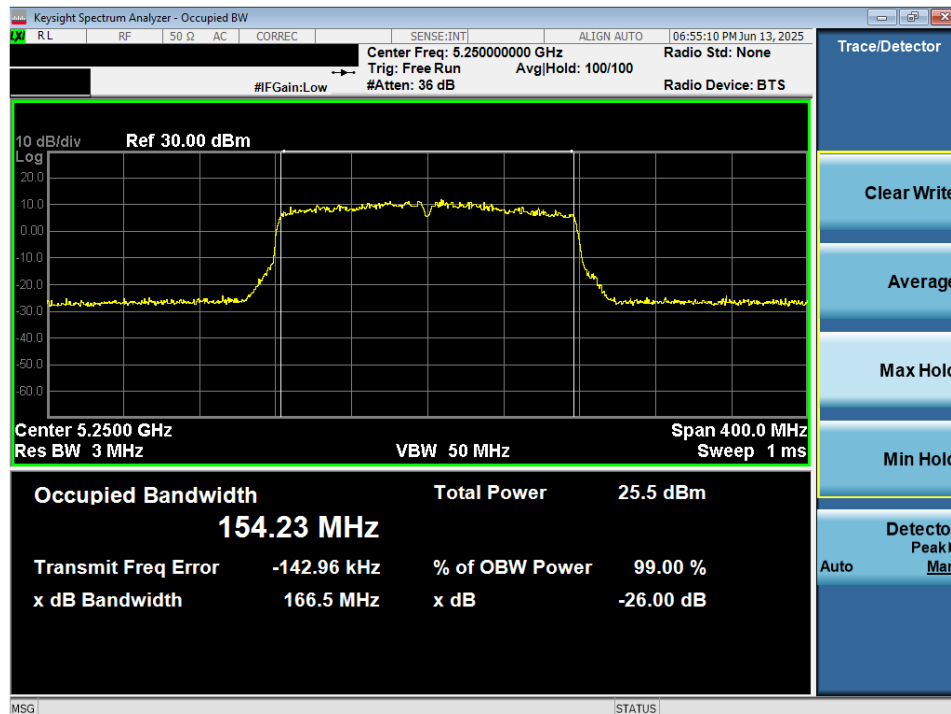


Plot 7-15. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 25 of 117

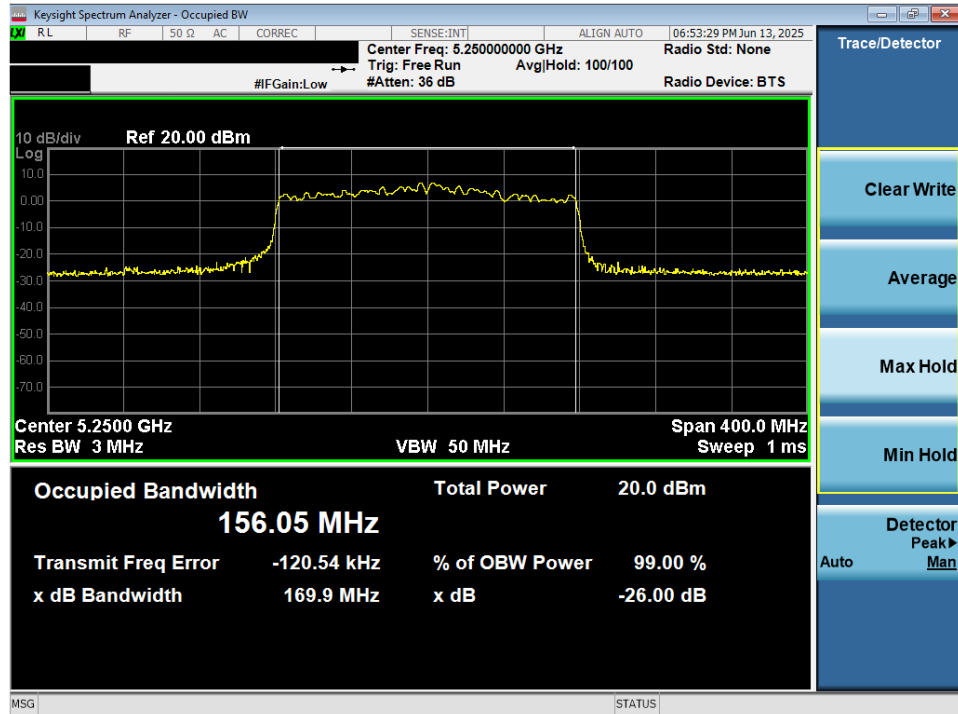


Plot 7-16. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)



Plot 7-17. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 26 of 117



Plot 7-18. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 27 of 117

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.

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 28 of 117

MIMO 6dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 3	5745	149	a	15.17	15.93	16.33	16.32
	5785	157	a	15.16	15.34	16.36	16.35
	5825	165	a	14.80	15.34	16.34	16.33
	5745	149	n	17.59	16.58	17.51	17.49
	5785	157	n	15.92	16.17	17.54	17.54
	5825	165	n	17.62	16.55	17.54	17.49
	5745	149	ax SU	18.55	18.36	18.71	18.73
	5785	157	ax SU	17.13	18.21	18.71	18.70
	5825	165	ax SU	18.64	17.00	18.73	18.73
	5755	151	n	35.17	35.19	35.95	35.99
	5795	159	n	32.75	35.32	36.00	36.03
	5755	151	ax SU	35.22	35.19	37.49	37.46
	5795	159	ax SU	35.22	35.19	37.56	37.45
	5775	155	ac	73.94	75.39	75.43	75.37
	5775	155	ax SU	75.38	75.44	76.60	76.62

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

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 3/4	5845	169	a	15.16	15.35	16.35	16.32
Band 4	5865	173	a	15.34	15.35	16.33	16.31
	5885	177	a	15.34	15.34	16.33	16.30
Band 3/4	5845	169	n	16.82	16.60	17.52	17.48
Band 4	5865	173	n	15.13	16.60	17.52	17.48
	5885	177	n	15.15	16.62	17.51	17.47
Band 3/4	5845	169	ax SU	17.37	18.03	18.74	18.69
Band 4	5865	173	ax SU	17.23	17.05	18.71	18.75
	5885	177	ax SU	18.54	17.33	18.76	18.76
Band 3/4	5835	167	n	35.12	35.13	35.94	35.91
Band 4	5875	175	n	35.20	35.12	35.94	35.86
Band 3/4	5835	167	ax SU	35.23	35.22	37.50	37.42
Band 4	5875	175	ax SU	35.22	35.19	37.51	37.42
Band 3/4	5855	171	ac	72.71	74.03	75.39	75.27
	5855	171	ax SU	75.36	75.39	76.49	76.38
	5815	163	ac	149.22	151.85	153.97	153.99
	5815	163	ax SU	155.45	155.53	154.97	155.08

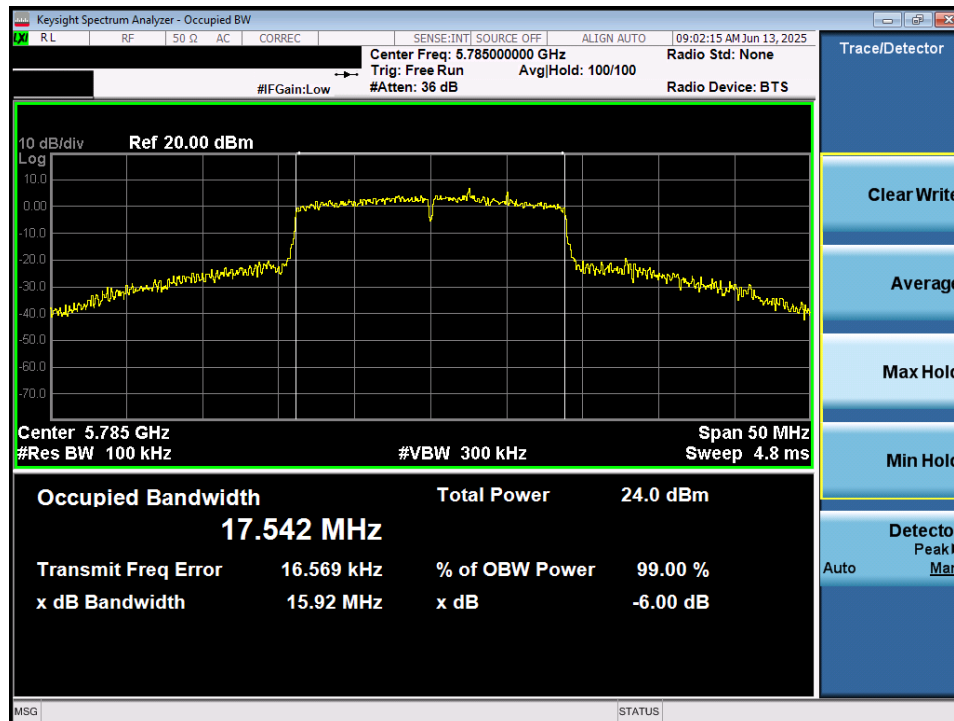
Table 7-4. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 29 of 117

7.3.1 MIMO Antenna-1 6dB Bandwidth Measurements

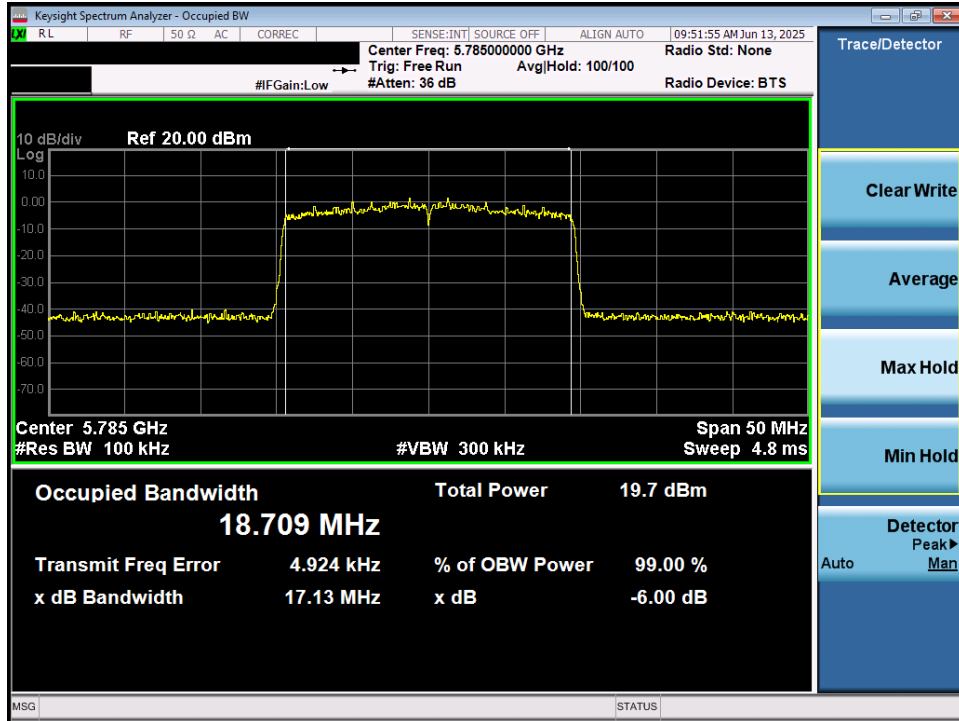


Plot 7-19. 6dB Bandwidth Plot MIMO ANT1 (802.11a (UNII Band 3) – Ch. 157)

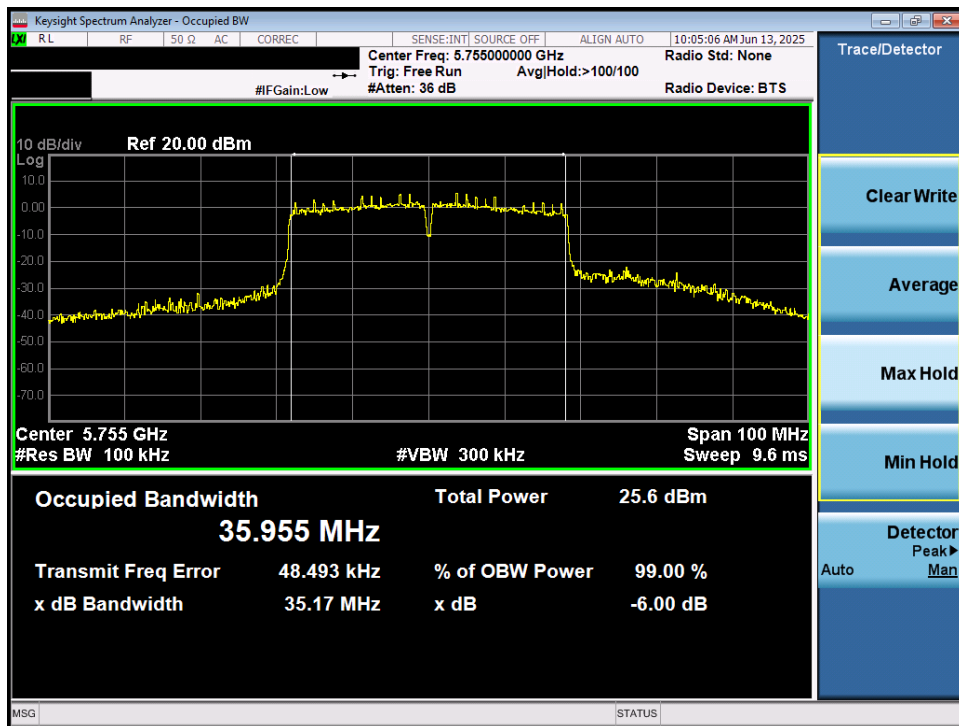


Plot 7-20. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 30 of 117

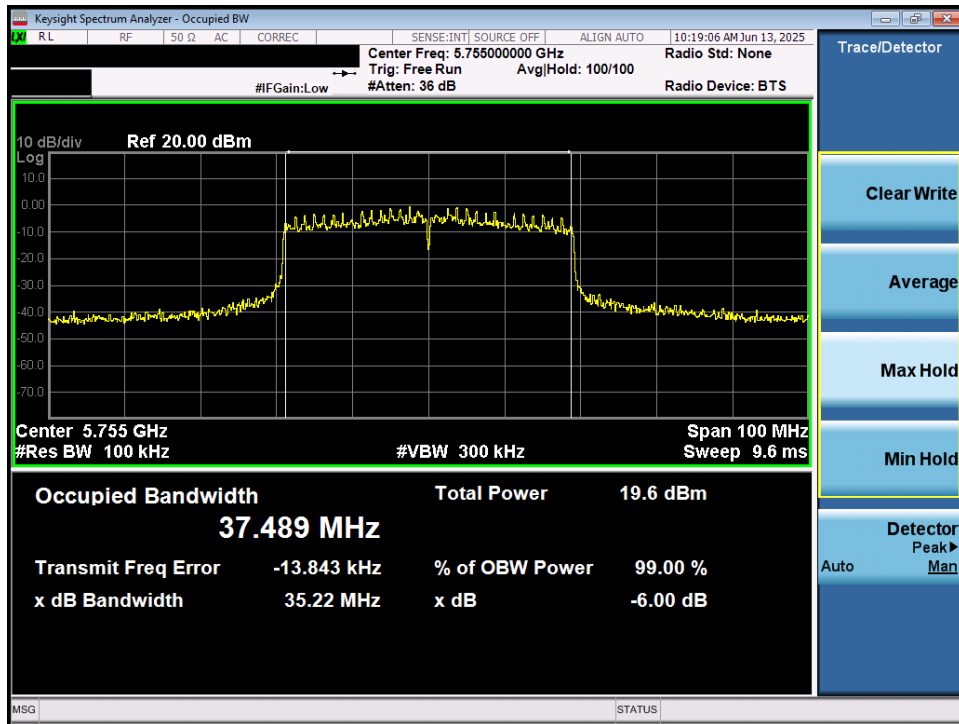


Plot 7-21. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

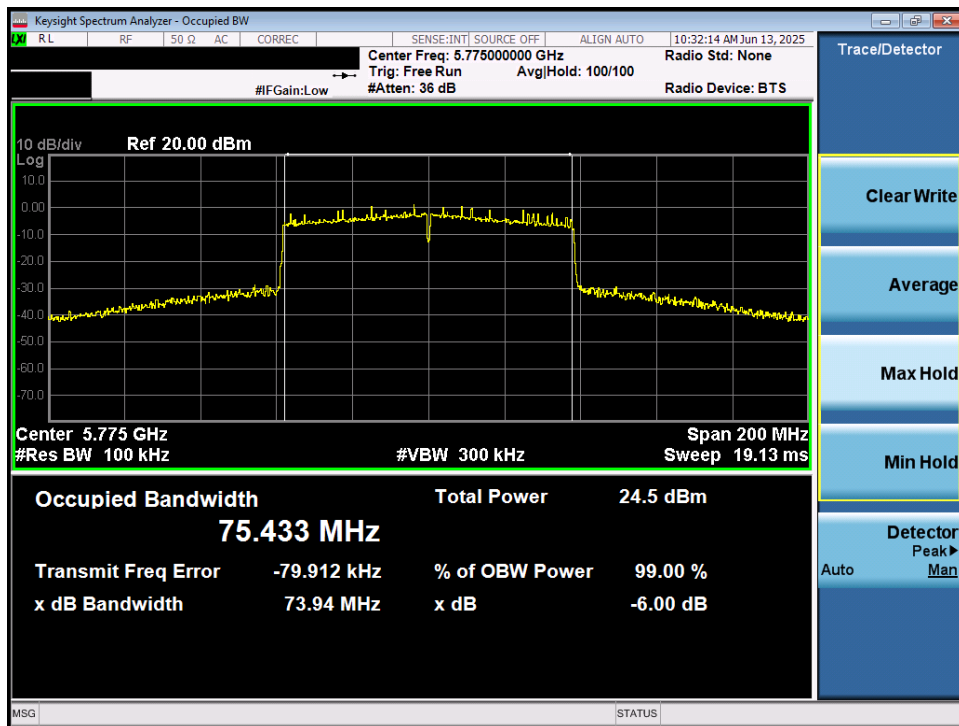


Plot 7-22. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 31 of 117

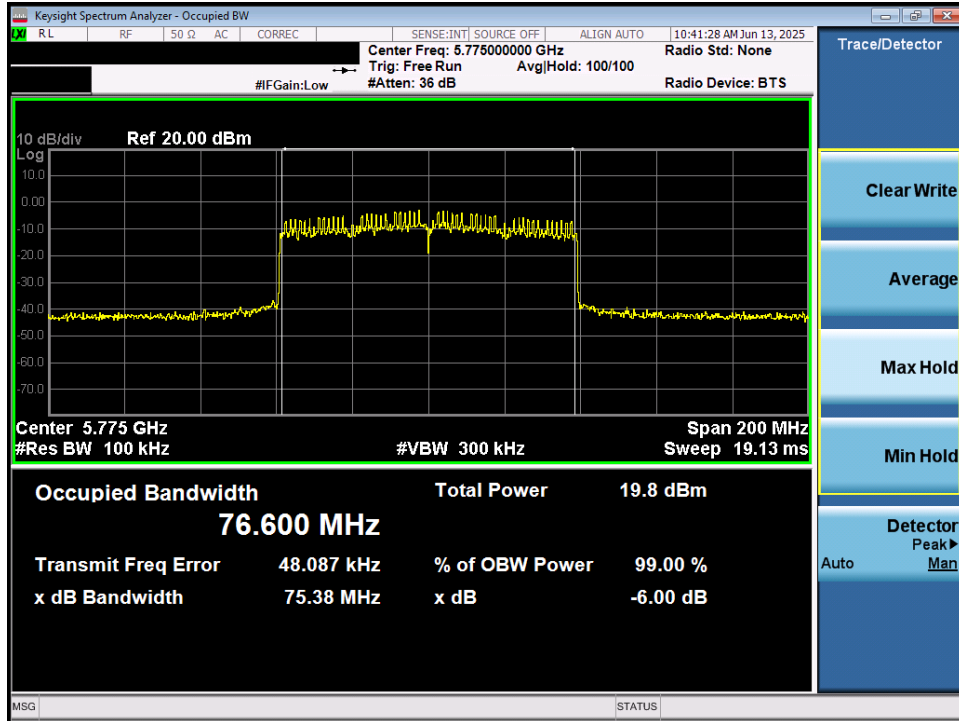


Plot 7-23. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

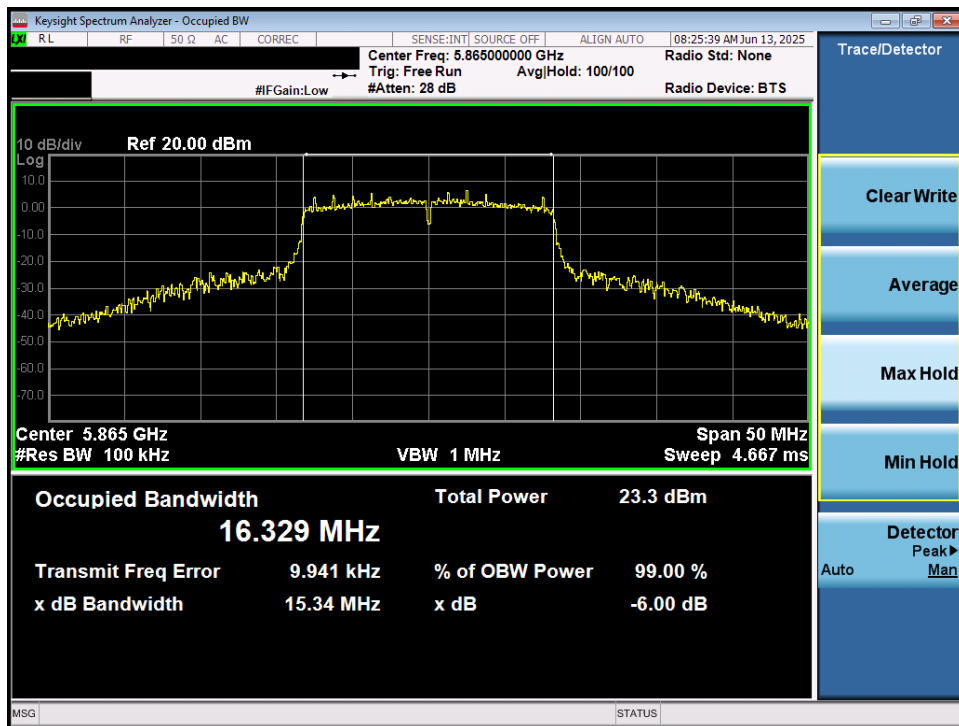


Plot 7-24. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 32 of 117

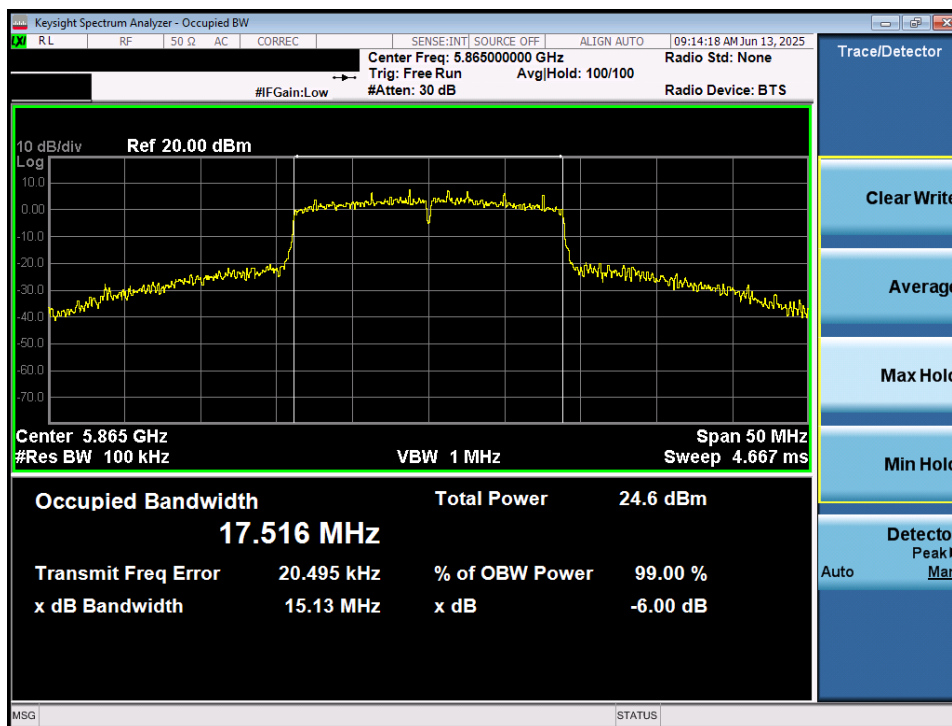


Plot 7-25. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

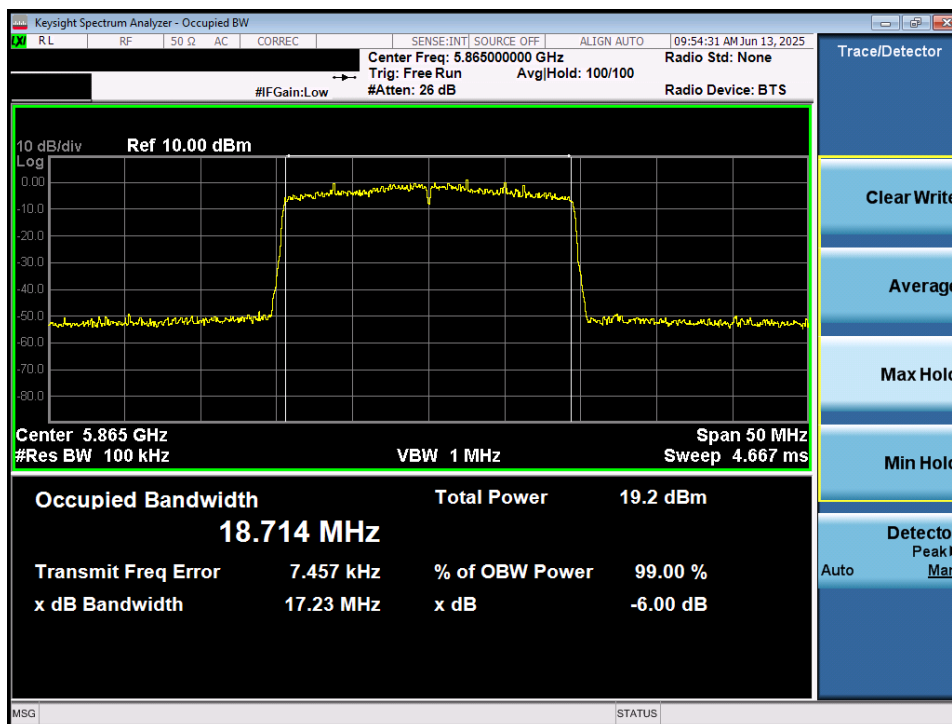


Plot 7-26. 6dB Bandwidth Plot MIMO ANT1 (802.11a (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 33 of 117

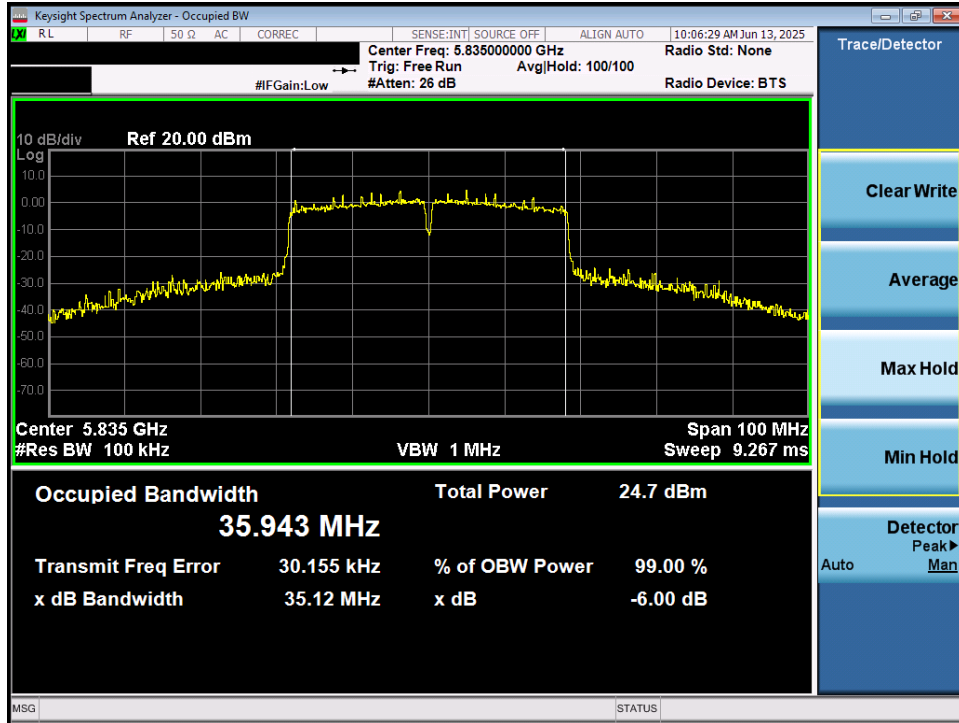


Plot 7-27. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

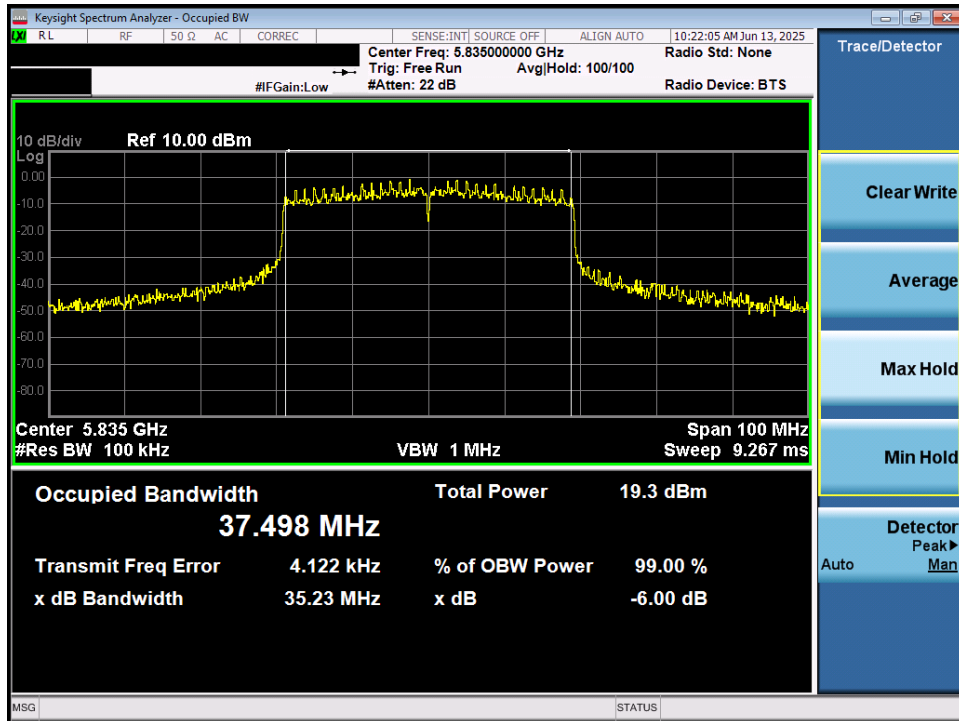


Plot 7-28. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 34 of 117



Plot 7-29. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

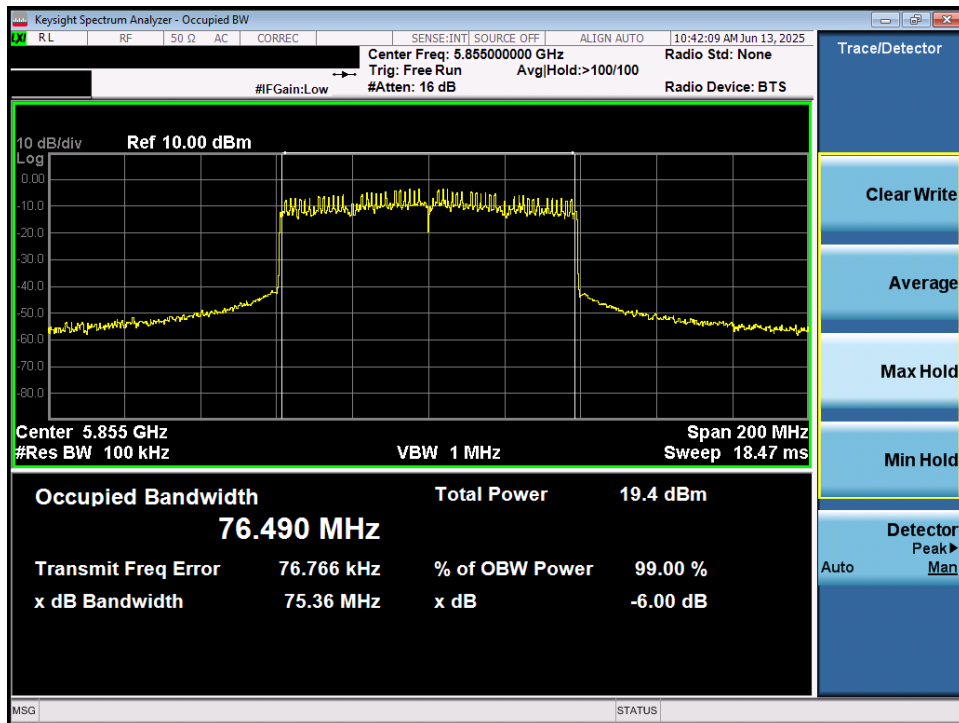


Plot 7-30. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 35 of 117

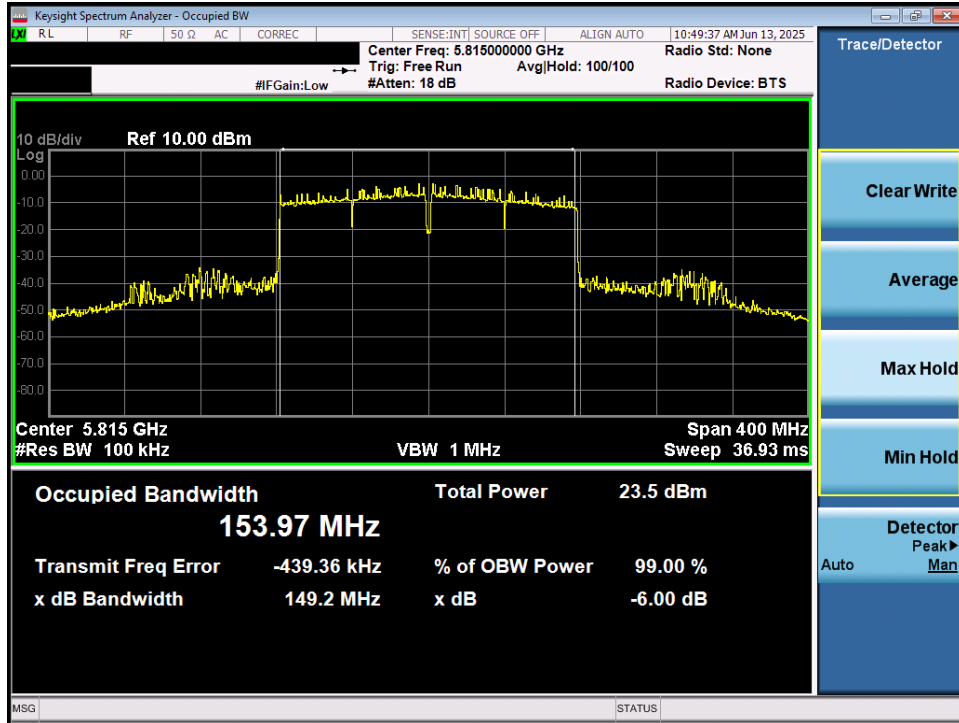


Plot 7-31. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

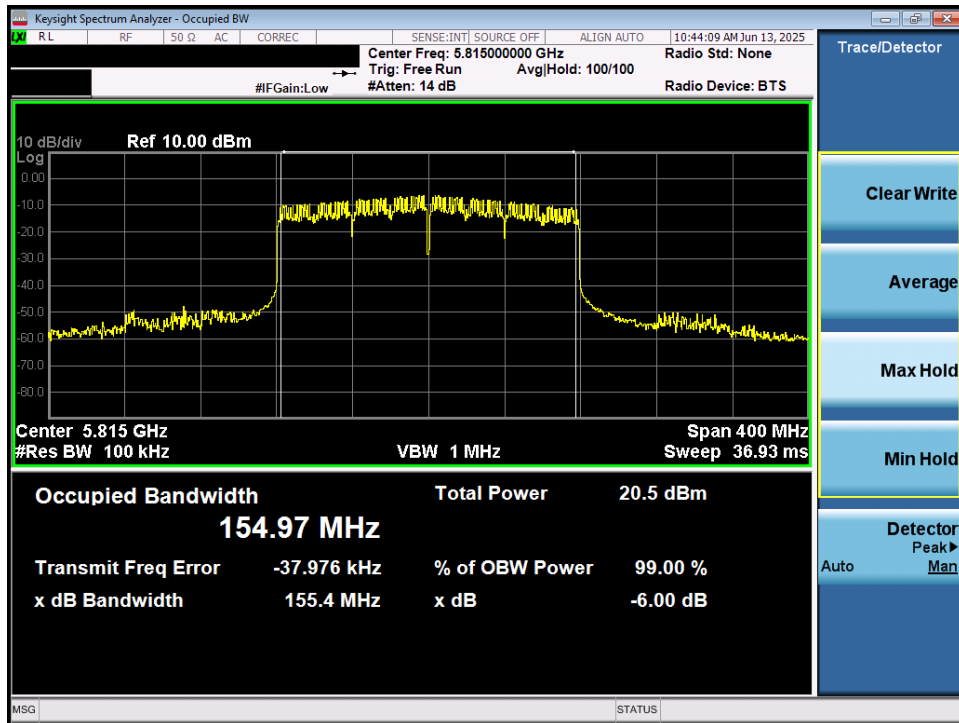


Plot 7-32. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 36 of 117



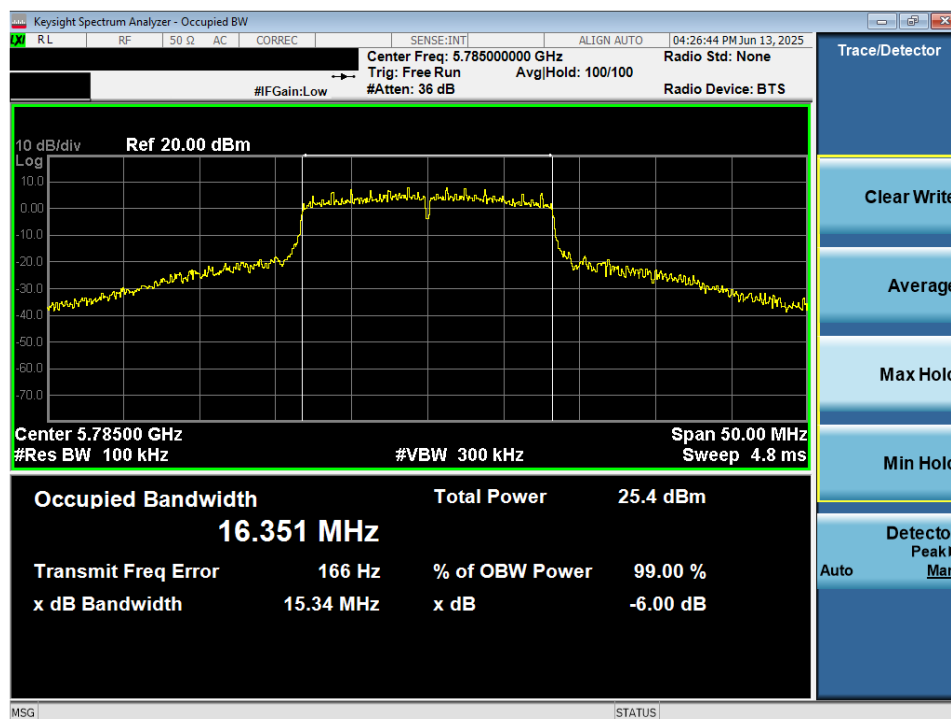
Plot 7-33. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) – Ch. 163)



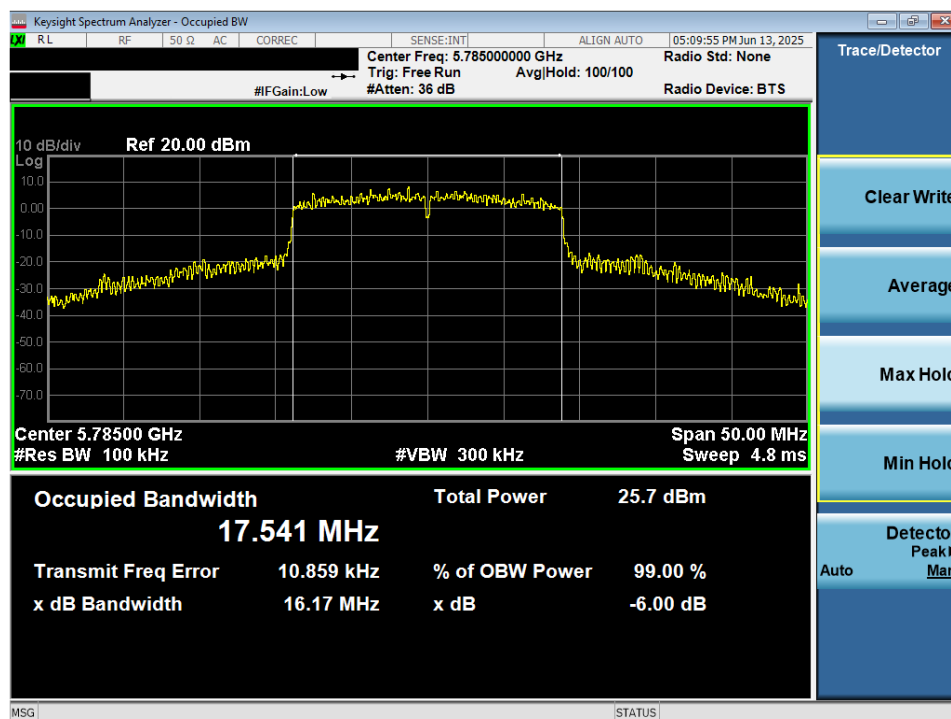
Plot 7-34. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 37 of 117

7.3.2 MIMO Antenna-2 6dB Bandwidth Measurements

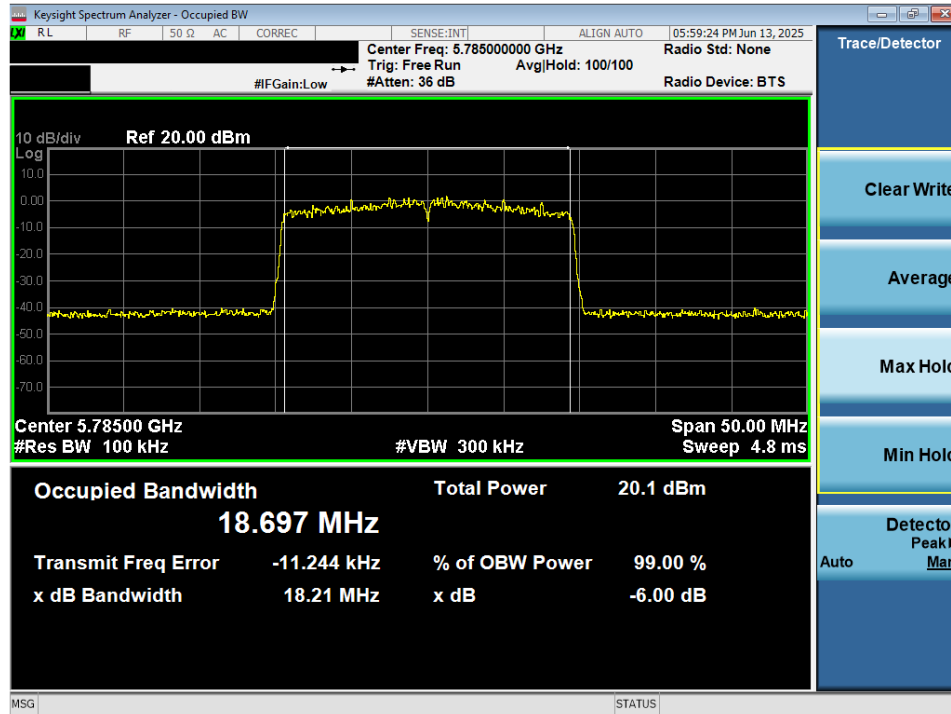


Plot 7-35. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3) – Ch. 157)

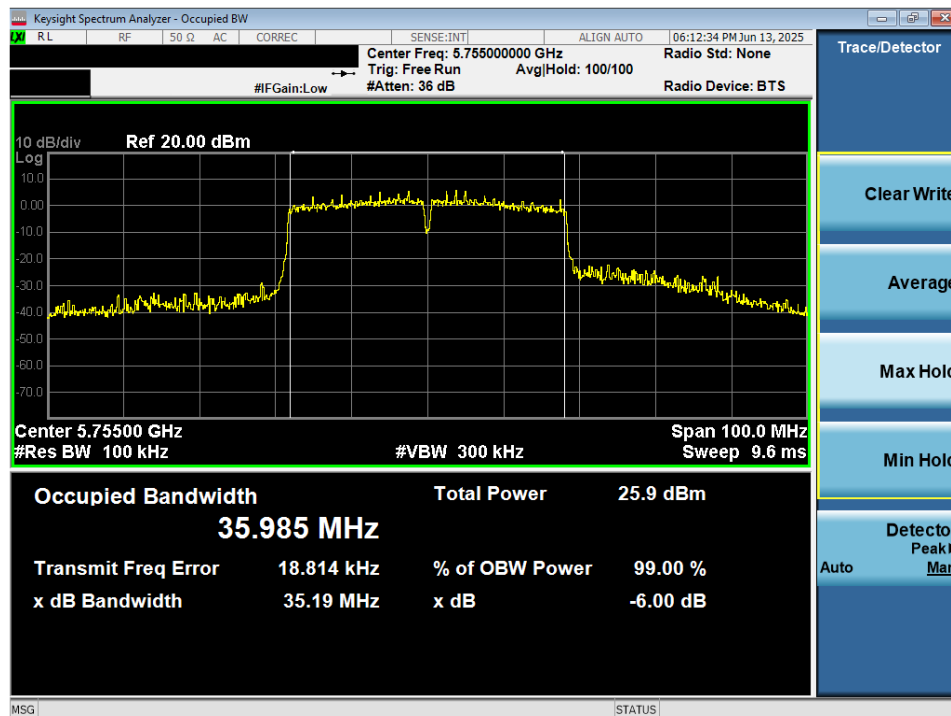


Plot 7-36. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 38 of 117

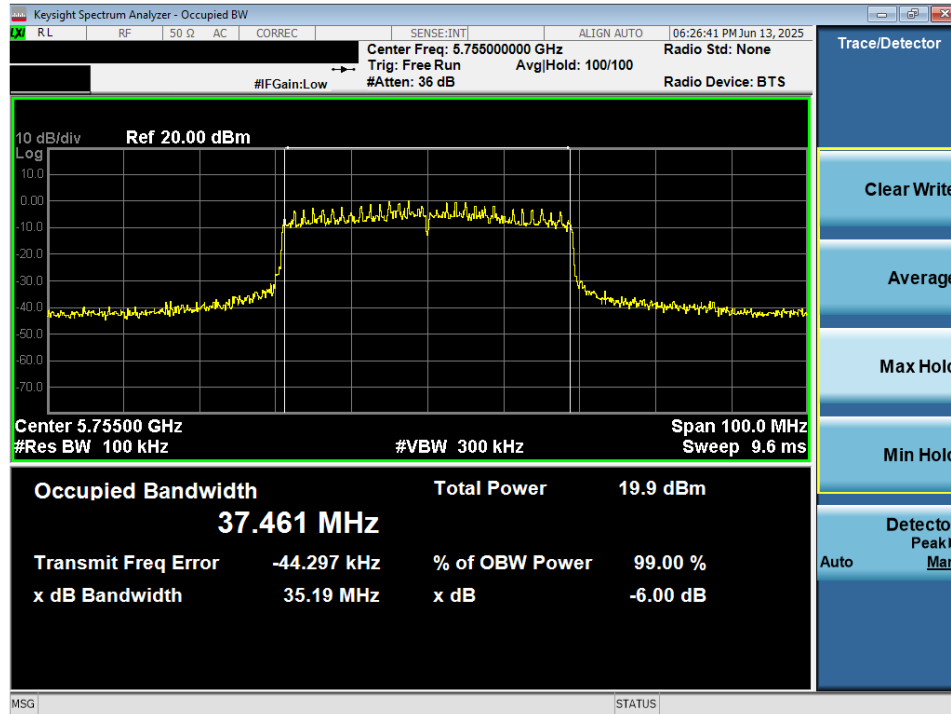


Plot 7-37. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

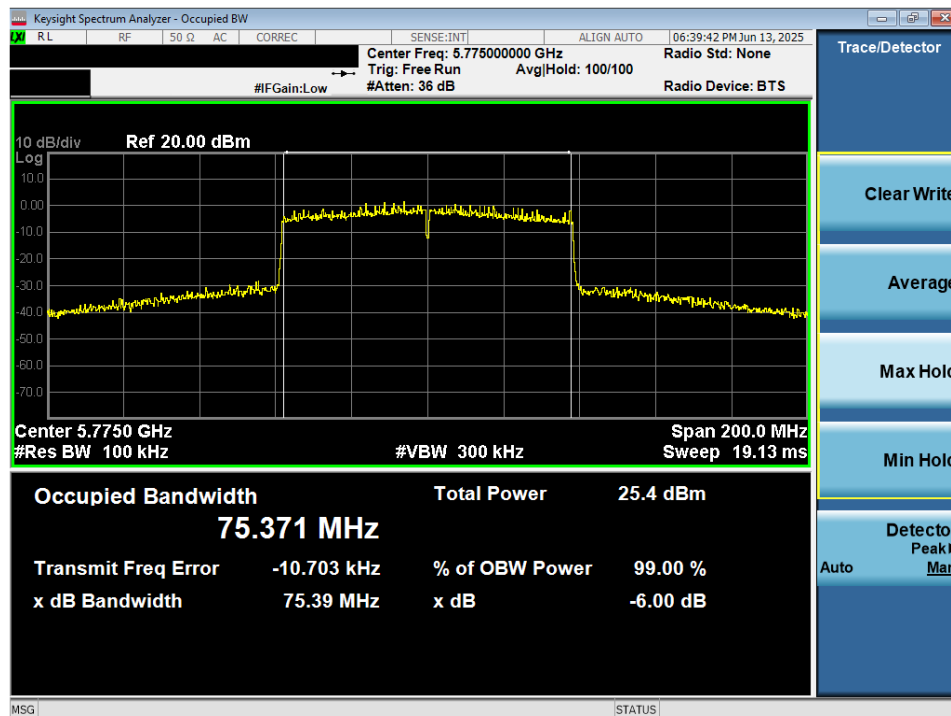


Plot 7-38. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 39 of 117

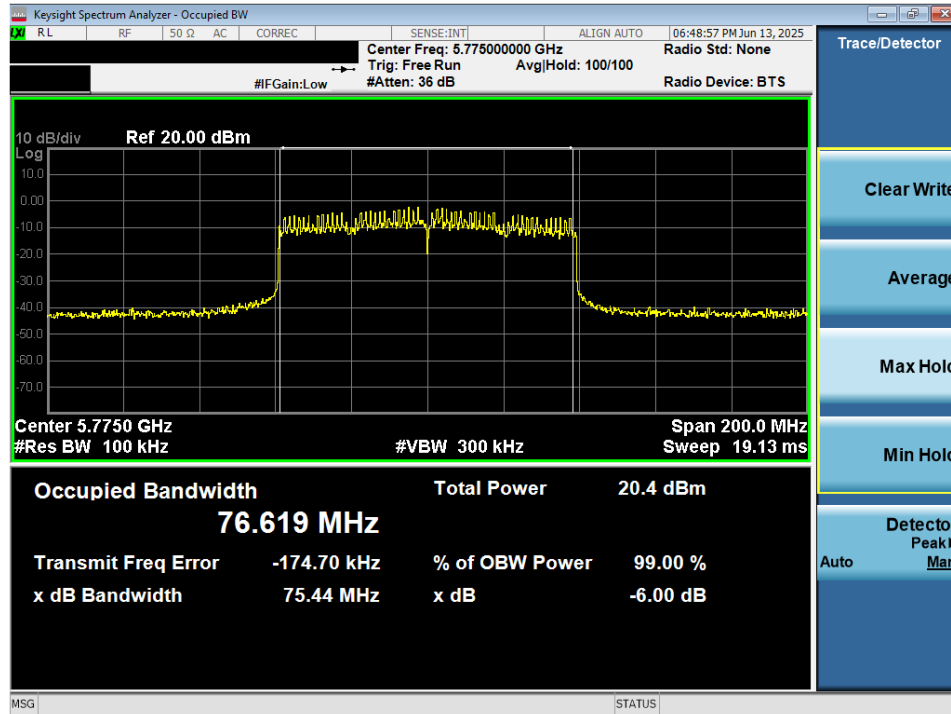


Plot 7-39. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)



Plot 7-40. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 40 of 117

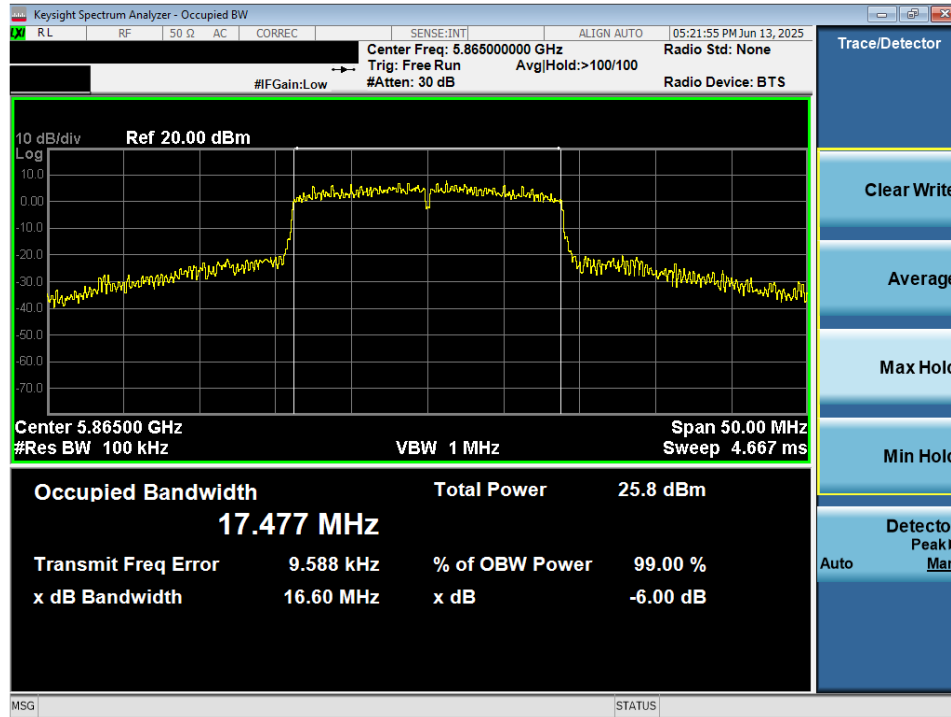


Plot 7-41. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

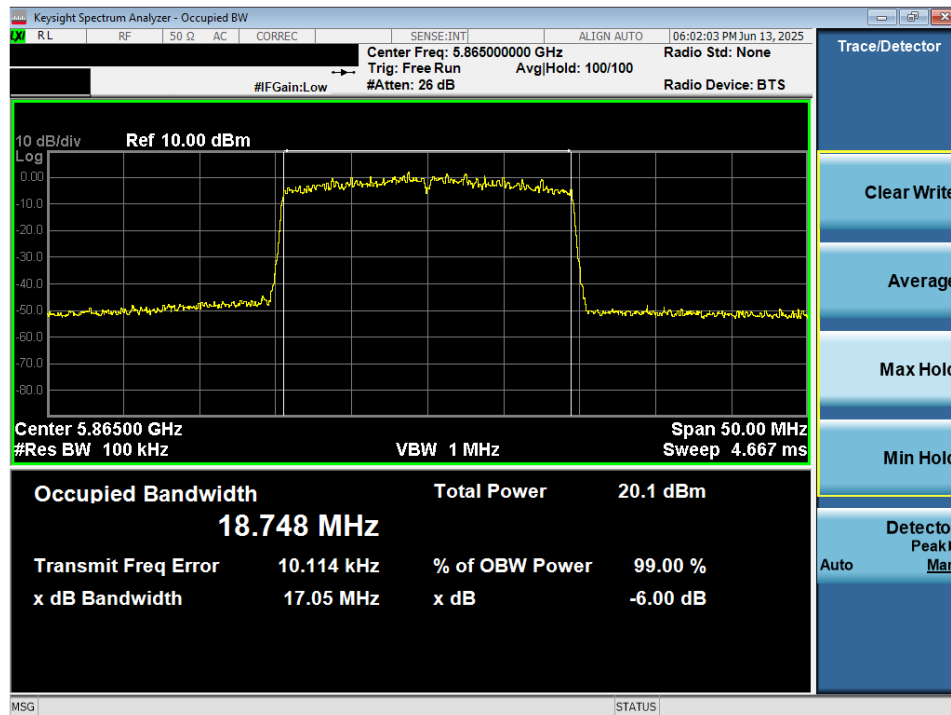


Plot 7-42. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3/4) – Ch. 173)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 41 of 117

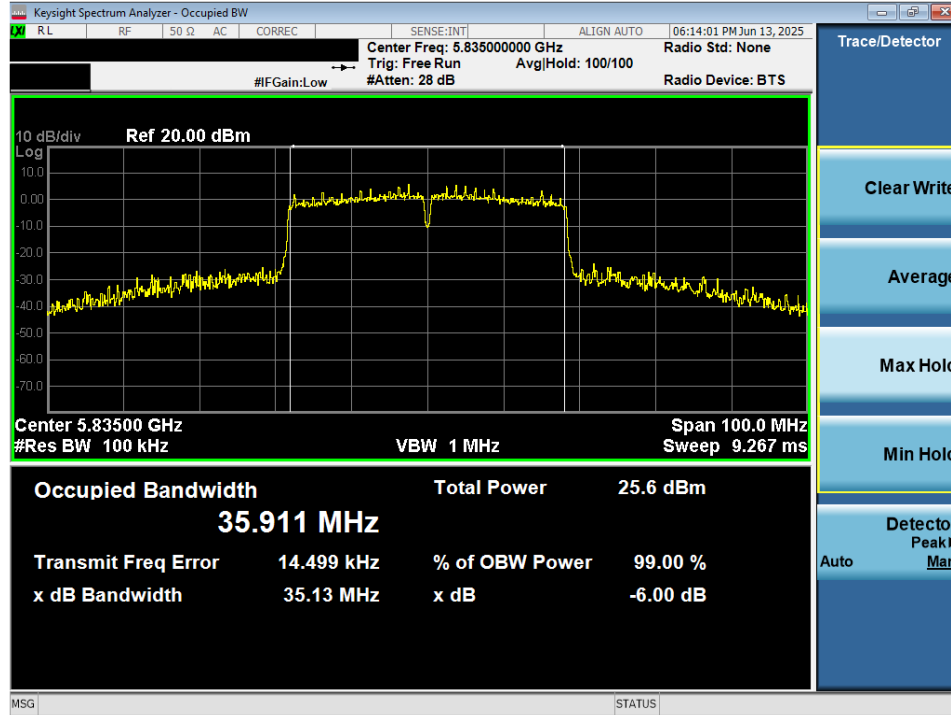


Plot 7-43. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3/4) – Ch. 173)

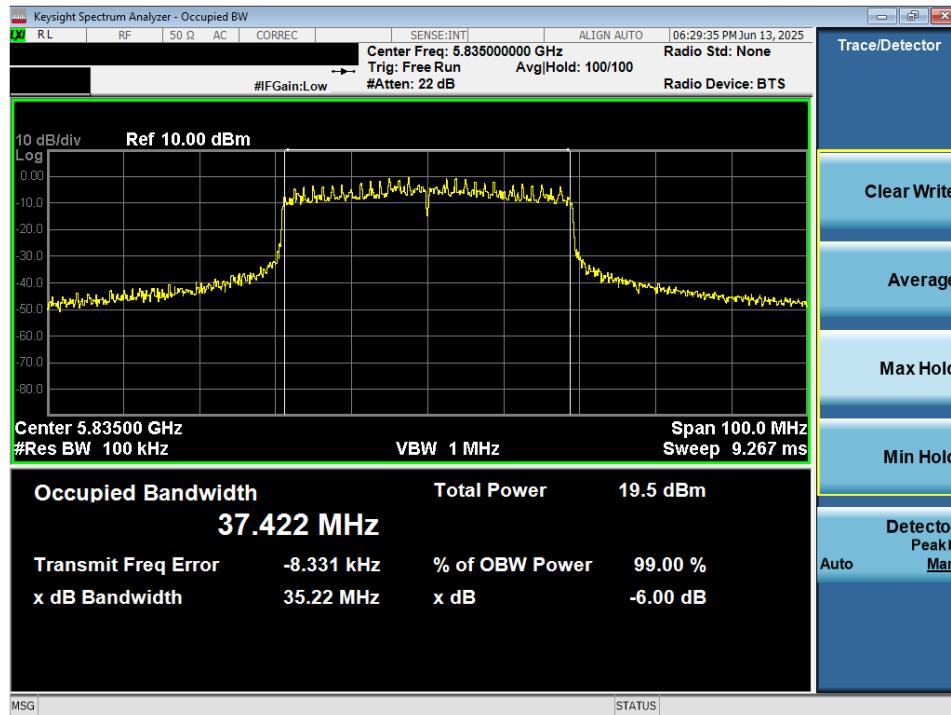


Plot 7-44. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3/4) – Ch. 173)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 42 of 117

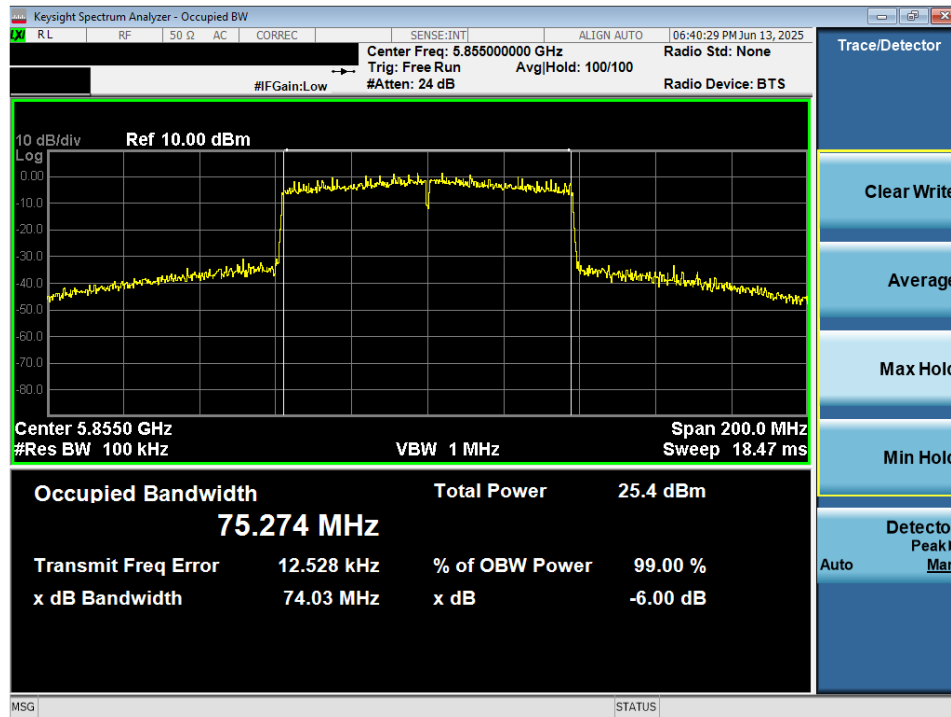


Plot 7-45. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

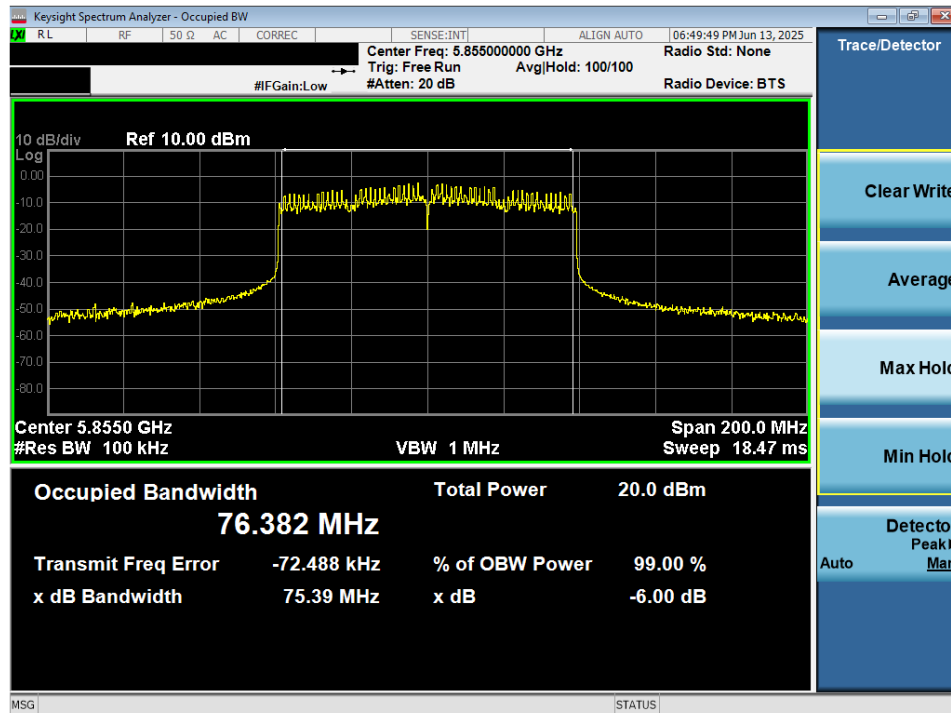


Plot 7-46. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 43 of 117

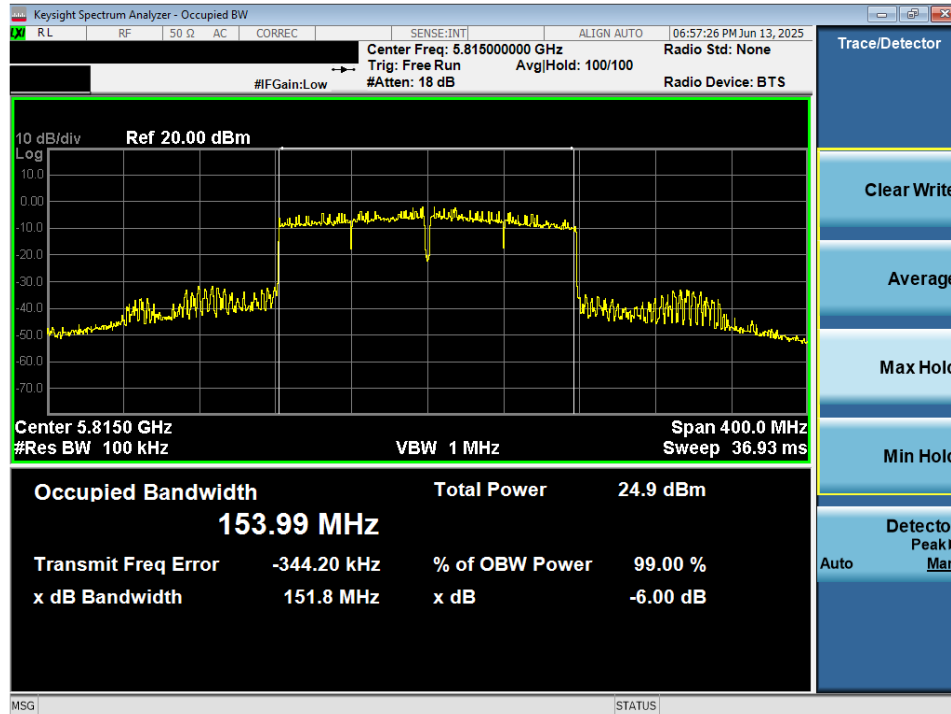


Plot 7-47. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

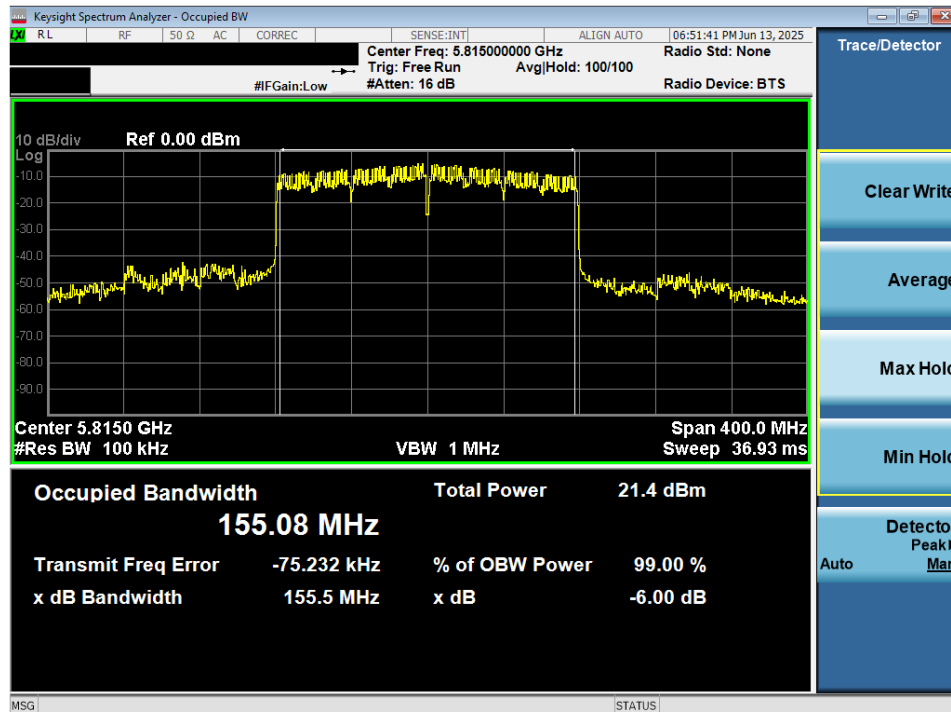


Plot 7-48. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 44 of 117



Plot 7-49. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 3/4) – Ch. 163)



Plot 7-50. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 45 of 117

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	ISED	FCC	ISED
UNII 1	5.15 – 5.25GHz	23.98dBm (250mW)	N/A	N/A	The lesser of 23.01dBm (200mW) or 10dBm + 10log ₁₀ B
UNII 2A	5.25 – 5.35GHz	The lesser of 23.98dBm (250mW) or 11dBm + 10log ₁₀ B		N/A	The lesser of 30dBm (1W) or 17dBm + 10log ₁₀ B
UNII 2C	5.47 – 5.725GHz				
UNII 3	5.725 – 5.850GHz	30dBm (1W)		N/A	N/A
UNII 4	5.850 – 5.895GHz	N/A		30dBm (1W)	N/A

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.

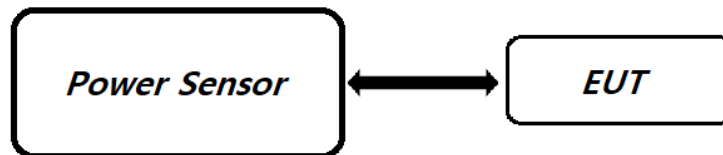


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 46 of 117

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]								
			WIFI 0	WIFI 1	MIMO						
UNII-1	5180	36	17.07	17.35	20.22	23.98	-3.76	-4.01	16.21	30.00	-13.79
	5200	40	17.15	17.04	20.11	23.98	-3.87	-4.01	16.10	30.00	-13.90
	5220	44	17.26	17.55	20.42	23.98	-3.56	-4.01	16.41	30.00	-13.59
	5240	48	17.36	17.61	20.50	23.98	-3.48	-4.01	16.49	30.00	-13.51
UNII-2A	5260	52	17.96	17.38	20.69	23.98	-3.29	-3.86	16.83	30.00	-13.17
	5280	56	17.82	17.62	20.73	23.98	-3.25	-3.86	16.87	30.00	-13.13
	5300	60	17.97	17.67	20.83	23.98	-3.15	-3.86	16.97	30.00	-13.03
	5320	64	17.90	17.51	20.72	23.98	-3.26	-3.86	16.86	30.00	-13.14
UNII-2C	5500	100	17.94	17.80	20.88	23.98	-3.10	-3.56	17.32	30.00	-12.68
	5600	120	17.52	17.66	20.60	23.98	-3.38	-3.56	17.04	30.00	-12.96
	5620	124	17.38	17.75	20.58	23.98	-3.40	-3.56	17.02	30.00	-12.98
	5720	144	17.99	17.70	20.86	23.98	-3.12	-3.56	17.29	30.00	-12.71
UNII-3	5745	149	14.68	14.62	17.66	30.00	-12.34	-3.12	14.54	36.00	-21.46
	5785	157	14.98	14.72	17.86	30.00	-12.14	-3.12	14.74	36.00	-21.26
	5825	165	14.98	14.70	17.85	30.00	-12.15	-3.12	14.73	36.00	-21.27
UNII-4	5845	169	17.90	17.43	20.68	-	-	-3.00	17.68	30.00	-12.32
	5865	173	17.92	17.63	20.79	-	-	-3.00	17.79	30.00	-12.21
	5885	177	17.73	17.49	20.62	-	-	-3.00	17.62	30.00	-12.38

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]								
			WIFI 0	WIFI 1	MIMO						
UNII-1	5180	36	17.15	17.61	20.40	23.98	-3.58	-4.01	16.39	30.00	-13.61
	5200	40	17.57	17.29	20.44	23.98	-3.54	-4.01	16.43	30.00	-13.57
	5220	44	17.52	17.46	20.50	23.98	-3.48	-4.01	16.49	30.00	-13.51
	5240	48	17.65	17.66	20.67	23.98	-3.31	-4.01	16.66	30.00	-13.34
UNII-2A	5260	52	17.69	17.70	20.71	23.98	-3.27	-3.86	16.85	30.00	-13.15
	5280	56	17.73	17.91	20.83	23.98	-3.15	-3.86	16.97	30.00	-13.03
	5300	60	17.51	17.23	20.38	23.98	-3.60	-3.86	16.52	30.00	-13.48
	5320	64	17.41	17.54	20.49	23.98	-3.49	-3.86	16.63	30.00	-13.37
UNII-2C	5500	100	17.53	17.80	20.68	23.98	-3.30	-3.56	17.12	30.00	-12.88
	5620	124	17.54	17.75	20.66	23.98	-3.32	-3.56	17.09	30.00	-12.91
	5720	144	17.66	16.95	20.33	23.98	-3.65	-3.56	16.77	30.00	-13.23
UNII-3	5745	149	14.81	14.83	17.83	30.00	-12.17	-3.12	14.71	36.00	-21.29
	5785	157	14.28	14.61	17.46	30.00	-12.54	-3.12	14.34	36.00	-21.66
	5825	165	14.00	14.48	17.26	30.00	-12.74	-3.12	14.14	36.00	-21.86
UNII-4	5845	169	17.63	16.45	20.09	-	-	-3.00	17.09	30.00	-12.91
	5865	173	17.65	16.52	20.13	-	-	-3.00	17.13	30.00	-12.87
	5885	177	17.64	16.59	20.16	-	-	-3.00	17.16	30.00	-12.84

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]								
			WIFI 0	WIFI 1	MIMO						
UNII-1	5180	36	17.12	17.59	20.37	23.98	-3.61	-4.01	16.36	30.00	-13.64
	5200	40	17.37	17.57	20.48	23.98	-3.50	-4.01	16.47	30.00	-13.53
	5220	44	17.50	17.74	20.63	23.98	-3.35	-4.01	16.62	30.00	-13.38
	5240	48	17.67	17.41	20.55	23.98	-3.43	-4.01	16.54	30.00	-13.46
UNII-2A	5260	52	17.56	17.30	20.44	23.98	-3.54	-3.86	16.58	30.00	-13.42
	5280	56	17.51	17.29	20.41	23.98	-3.57	-3.86	16.55	30.00	-13.45
	5300	60	17.51	17.26	20.40	23.98	-3.58	-3.86	16.54	30.00	-13.46
	5320	64	17.38	17.52	20.46	23.98	-3.52	-3.86	16.60	30.00	-13.40
UNII-2C	5500	100	17.62	17.81	20.73	23.98	-3.25	-3.56	17.17	30.00	-12.83
	5600	120	17.58	17.84	20.72	23.98	-3.26	-3.56	17.16	30.00	-12.84
	5620	124	17.61	17.78	20.71	23.98	-3.27	-3.56	17.14	30.00	-12.86
	5720	144	17.69	16.97	20.36	23.98	-3.62	-3.56	16.79	30.00	-13.21
UNII-3	5745	149	13.84	14.72	17.31	30.00	-12.69	-3.12	14.19	36.00	-21.81
	5785	157	14.04	14.44	17.25	30.00	-12.75	-3.12	14.13	36.00	-21.87
	5825	165	14.12	14.63	17.39	30.00	-12.61	-3.12	14.27	36.00	-21.73
UNII-4	5845	169	17.40	16.41	19.94	-	-	-3.00	16.95	30.00	-13.05
	5865	173	17.61	16.58	20.14	-	-	-3.00	17.14	30.00	-12.86
	5885	177	17.63	16.81	20.25	-	-	-3.00	17.25	30.00	-12.75

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

FCC ID: A3LSMX730 IC: 649E-SMX730		MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L		Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet			Page 47 of 117

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]								
			WIFI 0	WIFI 1	MIMO						
UNII-1	5180	36	10.67	10.91	13.80	23.98	-10.18	-4.01	9.79	30.00	-20.21
	5200	40	10.81	10.87	13.85	23.98	-10.13	-4.01	9.84	30.00	-20.16
	5220	44	10.58	10.45	13.53	23.98	-10.45	-4.01	9.52	30.00	-20.48
	5240	48	10.76	10.40	13.59	23.98	-10.39	-4.01	9.58	30.00	-20.42
UNII-2A	5260	52	10.58	10.43	13.52	23.98	-10.46	-3.86	9.66	30.00	-20.34
	5280	56	10.61	10.13	13.39	23.98	-10.59	-3.86	9.53	30.00	-20.47
	5300	60	10.51	10.29	13.41	23.98	-10.57	-3.86	9.55	30.00	-20.45
	5320	64	10.48	10.22	13.36	23.98	-10.62	-3.86	9.50	30.00	-20.50
UNII-2C	5500	100	10.57	10.44	13.52	23.98	-10.46	-3.56	9.96	30.00	-20.04
	5600	120	10.86	10.64	13.76	23.98	-10.22	-3.56	10.20	30.00	-19.80
	5620	124	10.60	10.72	13.67	23.98	-10.31	-3.56	10.11	30.00	-19.89
	5720	144	10.66	9.89	13.30	23.98	-10.68	-3.56	9.74	30.00	-20.26
UNII-3	5745	149	10.55	9.61	13.12	30.00	-16.88	-3.12	10.00	36.00	-26.00
	5785	157	10.67	9.57	13.17	30.00	-16.83	-3.12	10.04	36.00	-25.96
	5825	165	10.50	9.03	12.84	30.00	-17.16	-3.12	9.72	36.00	-26.28
UNII-4	5845	169	10.67	9.35	13.07	-	-	-3.00	10.07	30.00	-19.93
	5865	173	10.68	9.49	13.14	-	-	-3.00	10.14	30.00	-19.86
	5885	177	10.57	9.54	13.10	-	-	-3.00	10.10	30.00	-19.90

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	14.48	14.13	17.32	23.98	-6.66	-4.01	13.31	30.00	-16.69
	5230	46	16.89	16.99	19.95	23.98	-4.03	-4.01	15.94	30.00	-14.06
UNII-2A	5270	54	16.56	16.33	19.46	23.98	-4.52	-3.86	15.60	30.00	-14.40
	5310	62	14.50	14.41	17.47	23.98	-6.51	-3.86	13.61	30.00	-16.39
UNII-2C	5510	102	16.75	16.98	19.88	23.98	-4.10	-3.56	16.32	30.00	-13.68
	5590	118	16.38	16.88	19.65	23.98	-4.33	-3.56	16.09	30.00	-13.91
	5630	126	16.35	16.53	19.45	23.98	-4.53	-3.56	15.89	30.00	-14.11
	5710	142	16.99	16.89	19.95	23.98	-4.03	-3.56	16.39	30.00	-13.61
UNII-3	5755	151	14.75	14.69	17.73	30.00	-12.27	-3.12	14.61	36.00	-21.39
	5795	159	14.76	14.87	17.83	30.00	-12.17	-3.12	14.71	36.00	-21.29
UNII-4	5835	167	16.98	16.82	19.91	-	-	-3.00	16.91	30.00	-13.09
	5875	175	16.80	16.50	19.66	-	-	-3.00	16.66	30.00	-13.34

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	14.07	14.07	17.08	23.98	-6.90	-4.01	13.07	30.00	-16.93
	5230	46	16.87	16.90	19.90	23.98	-4.08	-4.01	15.89	30.00	-14.11
UNII-2A	5270	54	16.90	16.72	19.82	23.98	-4.16	-3.86	15.96	30.00	-14.04
	5310	62	14.40	14.07	17.25	23.98	-6.73	-3.86	13.39	30.00	-16.61
UNII-2C	5510	102	16.73	16.95	19.85	23.98	-4.13	-3.56	16.29	30.00	-13.71
	5590	118	16.50	16.93	19.73	23.98	-4.25	-3.56	16.17	30.00	-13.83
	5630	126	16.40	16.79	19.61	23.98	-4.37	-3.56	16.05	30.00	-13.95
	5710	142	16.75	16.45	19.61	23.98	-4.37	-3.56	16.05	30.00	-13.95
UNII-3	5755	151	14.68	14.88	17.79	30.00	-12.21	-3.12	14.67	36.00	-21.33
	5795	159	14.83	14.90	17.88	30.00	-12.12	-3.12	14.76	36.00	-21.24
UNII-4	5835	167	16.96	16.68	19.83	-	-	-3.00	16.83	30.00	-13.17
	5875	175	16.90	16.59	19.76	-	-	-3.00	16.76	30.00	-13.24

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

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Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet		Page 48 of 117

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	10.99	10.96	13.99	23.98	-9.99	-4.01	9.98	30.00	-20.02
	5230	46	10.72	10.94	13.84	23.98	-10.14	-4.01	9.83	30.00	-20.17
UNII-2A	5270	54	10.99	10.76	13.89	23.98	-10.09	-3.86	10.03	30.00	-19.97
	5310	62	10.90	10.62	13.77	23.98	-10.21	-3.86	9.91	30.00	-20.09
UNII-2C	5510	102	10.78	10.70	13.75	23.98	-10.23	-3.56	10.19	30.00	-19.81
	5590	118	10.46	10.65	13.57	23.98	-10.41	-3.56	10.01	30.00	-19.99
	5630	126	10.56	10.80	13.69	23.98	-10.29	-3.56	10.13	30.00	-19.87
	5710	142	10.79	10.19	13.51	23.98	-10.47	-3.56	9.95	30.00	-20.05
UNII-3	5755	151	10.65	10.56	13.62	30.00	-16.38	-3.12	10.50	36.00	-25.50
	5795	159	10.78	10.25	13.53	30.00	-16.47	-3.12	10.41	36.00	-25.59
UNII-4	5835	167	10.76	10.45	13.62	-	-	-3.00	10.62	30.00	-19.38
	5875	175	10.78	10.40	13.60	-	-	-3.00	10.61	30.00	-19.39

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

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	13.14	12.89	16.03	23.98	-7.95	-4.01	12.02	30.00	-17.98
UNII-2A	5290	58	14.54	14.25	17.41	23.98	-6.57	-3.86	13.55	30.00	-16.45
UNII-2C	5530	106	15.70	15.76	18.74	23.98	-5.24	-3.56	15.18	30.00	-14.82
	5610	122	15.33	15.87	18.62	23.98	-5.36	-3.56	15.06	30.00	-14.94
	5690	138	15.99	15.67	18.84	23.98	-5.14	-3.56	15.28	30.00	-14.72
UNII-3	5775	155	14.80	14.83	17.83	30.00	-12.17	-3.12	14.71	36.00	-21.29
UNII-4	5885	171	15.98	15.68	18.84	-	-	-3.00	15.84	30.00	-14.16

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	10.45	10.60	13.54	23.98	-10.44	-4.01	9.53	30.00	-20.47
UNII-2A	5290	58	10.65	10.45	13.56	23.98	-10.42	-3.86	9.70	30.00	-20.30
UNII-2C	5530	106	10.95	10.90	13.94	23.98	-10.04	-3.56	10.38	30.00	-19.62
	5610	122	10.75	10.89	13.83	23.98	-10.15	-3.56	10.27	30.00	-19.73
	5690	138	10.97	10.46	13.73	23.98	-10.25	-3.56	10.17	30.00	-19.83
UNII-3	5775	155	10.99	10.90	13.96	30.00	-16.04	-3.12	10.84	36.00	-25.16
UNII-4	5885	171	10.96	10.86	13.92	-	-	-3.00	10.92	30.00	-19.08

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

5GHz WIFI (160MHz 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-1/2A	5250	50	10.23	10.75	13.51	23.98	-10.47	-3.86	9.65	30.00	-20.35
UNII-2C	5570	114	13.17	13.31	16.25	23.98	-7.73	-3.56	12.69	30.00	-17.31
UNII-3/4	5815	163	14.74	14.92	17.84	30.00	-12.16	-3.00	14.84	30.00	-15.16

Table 7-14. MIMO 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 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-1/2A	5250	50	10.42	10.99	13.72	23.98	-10.26	-3.86	9.86	30.00	-20.14
UNII-2C	5570	114	10.74	10.50	13.63	23.98	-10.35	-3.56	10.07	30.00	-19.93
UNII-3/4	5815	163	10.70	10.81	13.77	30.00	-16.23	-3.00	10.77	30.00	-19.23

Table 7-15. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMX730 IC: 649E-SMX730	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 802.11n (20MHz BW) mode, the average conducted output power was measured to be 17.15 dBm for Antenna 1 and 17.61 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(17.15 \text{ dBm} + 17.61 \text{ dBm}) = (51.880 \text{ mW} + 57.677 \text{ mW}) = 109.557 \text{ mW} = 20.40 \text{ dBm}$$

Sample e.i.r.p Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 20.40 dBm with directional gain of -4.01 dBi.

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

$$20.40 \text{ dBm} + -4.01 \text{ dBi} = 16.38 \text{ dBm}$$

FCC ID: A3LSMX730 IC: 649E-SMX730	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	ISED
UNII 1	5.15 – 5.25GHz	11dBm/MHz	10dBm/MHz e.i.r.p
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 12.4.2.2 (Method SA-1)

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

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 51 of 117

Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 1	5180	36	a	7.44	7.93	10.70	11.00	-0.30
	5200	40	a	7.34	8.08	10.73	11.00	-0.27
	5240	48	a	7.56	8.23	10.92	11.00	-0.08
	5180	36	n	7.26	8.21	10.77	11.00	-0.23
	5200	40	n	7.71	8.05	10.89	11.00	-0.11
	5240	48	n	7.48	7.93	10.72	11.00	-0.28
	5180	36	ax SU	0.99	1.35	4.18	11.00	-6.82
	5200	40	ax SU	1.23	1.04	4.14	11.00	-6.86
	5240	48	ax SU	1.14	1.59	4.38	11.00	-6.62
	5190	38	n	4.19	4.53	7.37	11.00	-3.63
	5230	46	n	4.21	4.34	7.28	11.00	-3.72
	5190	38	ax SU	-2.29	-2.00	0.87	11.00	-10.13
	5230	46	ax SU	-2.05	-2.00	0.98	11.00	-10.02
	5210	42	ac	0.39	0.39	3.40	11.00	-7.60
Band 1/2A	5210	42	ax SU	-5.16	-4.92	-2.03	11.00	-13.03
	5250	50	ac	-3.59	-2.74	-0.13	11.00	-11.13
Band 2A	5250	50	ax SU	-8.12	-7.18	-4.62	11.00	-15.62
	5260	52	a	7.40	7.69	10.56	11.00	-0.44
	5280	56	a	7.71	7.40	10.57	11.00	-0.43
	5320	64	a	7.62	7.30	10.47	11.00	-0.53
	5260	52	n	7.70	7.46	10.59	11.00	-0.41
	5280	56	n	7.88	8.08	10.99	11.00	-0.01
	5320	64	n	7.76	7.83	10.80	11.00	-0.20
	5260	52	ax SU	1.73	1.27	4.52	11.00	-6.48
	5280	56	ax SU	1.57	1.37	4.48	11.00	-6.52
	5320	64	ax SU	1.29	1.12	4.22	11.00	-6.78
	5270	54	n	4.69	4.51	7.61	11.00	-3.39
	5310	62	n	4.55	4.36	7.47	11.00	-3.53
	5270	54	ax SU	-2.26	-1.82	0.98	11.00	-10.02
	5310	62	ax SU	-2.27	-2.33	0.71	11.00	-10.29
	5290	58	ac	0.41	0.38	3.40	11.00	-7.60
	5290	58	ax SU	-4.71	-5.20	-1.93	11.00	-12.93
Band 2C	5500	100	a	7.22	8.07	10.67	11.00	-0.33
	5600	120	a	7.33	8.37	10.89	11.00	-0.11
	5720	144	a	7.82	8.00	10.92	11.00	-0.08
	5500	100	n	7.53	8.26	10.92	11.00	-0.08
	5600	120	n	6.86	8.56	10.80	11.00	-0.20
	5720	144	n	7.31	7.80	10.57	11.00	-0.43
	5500	100	ax SU	1.81	2.11	4.97	11.00	-6.03
	5600	120	ax SU	1.27	2.37	4.86	11.00	-6.14
	5720	144	ax SU	1.33	1.92	4.64	11.00	-6.36
	5510	102	n	4.92	5.55	8.26	11.00	-2.74
	5590	118	n	4.44	5.37	7.94	11.00	-3.06
	5710	142	n	4.79	4.92	7.86	11.00	-3.14
	5510	102	ax SU	-1.69	-0.99	1.68	11.00	-9.32
	5590	118	ax SU	-2.09	-1.29	1.34	11.00	-9.66
	5710	142	ax SU	-2.13	-1.72	1.09	11.00	-9.91
	5530	106	ac	0.71	1.55	4.16	11.00	-6.84
	5610	122	ac	0.79	1.46	4.15	11.00	-6.85
	5690	138	ac	0.94	0.94	3.95	11.00	-7.05
	5530	106	ax SU	-4.80	-4.11	-1.43	11.00	-12.43
	5610	122	ax SU	-4.82	-3.39	-1.04	11.00	-12.04
	5690	138	ax SU	-4.54	-4.38	-1.45	11.00	-12.45
	5570	114	ac	-3.54	-3.31	-0.41	11.00	-11.41
	5570	114	ax SU	-7.71	-7.73	-4.71	11.00	-15.71

Table 7-16. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 52 of 117

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 3	5745	149	a	5.09	5.69	8.41	30.00	-21.59
	5785	157	a	5.12	5.29	8.21	30.00	-21.79
	5825	165	a	4.55	5.18	7.89	30.00	-22.11
	5745	149	n	4.82	5.88	8.39	30.00	-21.61
	5785	157	n	4.73	5.44	8.11	30.00	-21.89
	5825	165	n	4.62	5.21	7.93	30.00	-22.07
	5745	149	ax SU	-0.96	-0.50	2.29	30.00	-27.71
	5785	157	ax SU	-0.88	-0.63	2.26	30.00	-27.74
	5825	165	ax SU	-1.39	-1.26	1.69	30.00	-28.31
	5755	151	n	1.92	2.77	5.38	30.00	-24.62
	5795	159	n	2.07	2.43	5.27	30.00	-24.73
	5755	151	ax SU	-3.86	-3.06	-0.43	30.00	-30.43
	5795	159	ax SU	-3.79	-3.23	-0.49	30.00	-30.49
	5775	155	ac	-1.57	-1.44	1.51	30.00	-28.49
	5775	155	ax SU	-6.45	-5.72	-3.06	30.00	-33.06

Table 7-17. Band 3 MIMO Conducted Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Directional Antenna Gain [dBi]	EIRP PSD [dBm]	EIRP PSD Limit [dBm]	Margin [dB]
Band 3/4	5845	169	a	7.15	7.99	10.60	-3.00	7.60	14.00	-6.40
Band 4	5865	173	a	6.97	7.71	10.36	-3.00	7.37	14.00	-6.63
	5885	177	a	7.24	7.73	10.50	-3.00	7.51	14.00	-6.49
Band 3/4	5845	169	n	7.23	8.08	10.68	-3.00	7.69	14.00	-6.31
Band 4	5865	173	n	7.38	8.36	10.91	-3.00	7.91	14.00	-6.09
	5885	177	n	7.34	8.17	10.78	-3.00	7.79	14.00	-6.21
Band 3/4	5845	169	ax SU	1.67	1.90	4.80	-3.00	1.80	14.00	-12.20
Band 4	5865	173	ax SU	1.62	2.13	4.89	-3.00	1.89	14.00	-12.11
	5885	177	ax SU	1.75	2.11	4.95	-3.00	1.95	14.00	-12.05
Band 3/4	5835	167	n	4.49	4.99	7.76	-3.00	4.76	14.00	-9.24
Band 4	5875	175	n	4.51	5.21	7.88	-3.00	4.88	14.00	-9.12
Band 3/4	5835	167	ax SU	-1.89	-1.46	1.34	-3.00	-1.66	14.00	-15.66
Band 4	5875	175	ax SU	-1.81	-1.36	1.43	-3.00	-1.57	14.00	-15.57
Band 3/4	5855	171	ac	0.94	1.52	4.25	-3.00	1.25	14.00	-12.75
	5855	171	ax SU	-4.61	-4.16	-1.37	-3.00	-4.37	14.00	-18.37
	5815	163	ac	-3.19	-2.80	0.02	-3.00	-2.98	14.00	-16.98
	5815	163	ax SU	-7.57	-6.79	-4.15	-3.00	-7.15	14.00	-21.15

Table 7-18. Bands 3/4 MIMO Conducted Power Spectral Density Measurements

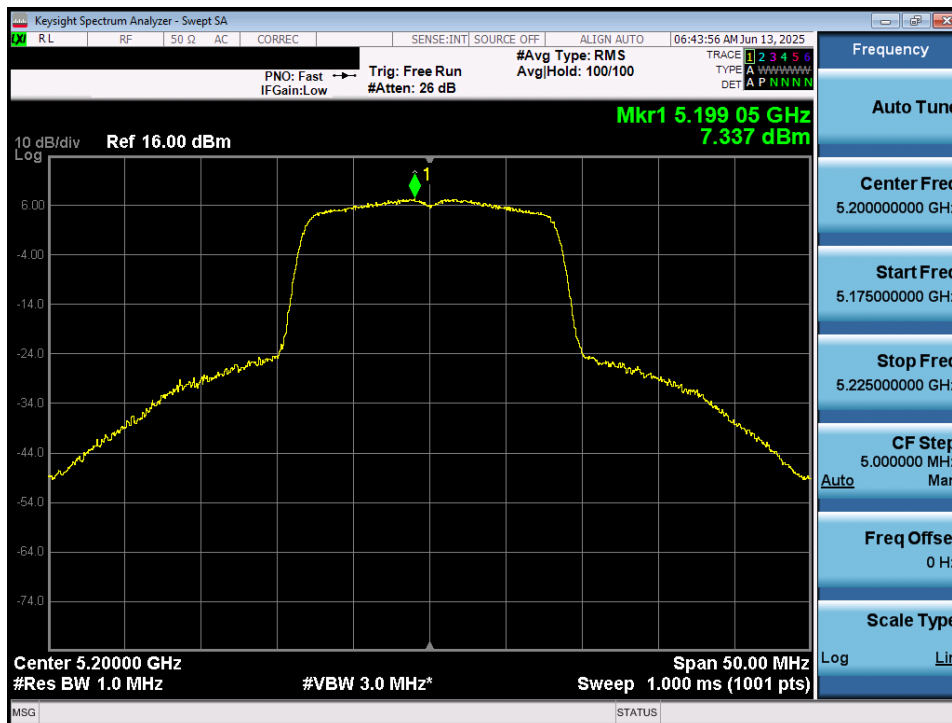
FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 53 of 117

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Antenna Gain [dBi]	EIRP PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 1	5180	36	a	7.44	7.93	10.70	-4.01	6.69	10.00	-3.31
	5200	40	a	7.34	8.08	10.73	-4.01	6.72	10.00	-3.28
	5240	48	a	7.56	8.23	10.92	-4.01	6.90	10.00	-3.10
	5180	36	n	7.26	8.21	10.77	-4.01	6.75	10.00	-3.25
	5200	40	n	7.71	8.05	10.89	-4.01	6.88	10.00	-3.12
	5240	48	n	7.48	7.93	10.72	-4.01	6.71	10.00	-3.29
	5180	36	ax SU	0.99	1.35	4.18	-4.01	0.17	10.00	-9.83
	5200	40	ax SU	1.23	1.04	4.14	-4.01	0.13	10.00	-9.87
	5240	48	ax SU	1.14	1.59	4.38	-4.01	0.36	10.00	-9.64
	5190	38	n	4.19	4.53	7.37	-4.01	3.36	10.00	-6.64
	5230	46	n	4.21	4.34	7.28	-4.01	3.27	10.00	-6.73
	5190	38	ax SU	-2.29	-2.00	0.87	-4.01	-3.14	10.00	-13.14
	5230	46	ax SU	-2.05	-2.00	0.98	-4.01	-3.03	10.00	-13.03
	5210	42	ac	0.39	0.39	3.40	-4.01	-0.61	10.00	-10.61
	5210	42	ax SU	-5.16	-4.92	-2.03	-4.01	-6.04	10.00	-16.04
Band 1/2A	5250	50	ac	-3.59	-2.74	-0.13	-4.01	-4.15	10.00	-14.15
	5250	50	ax SU	-8.12	-7.18	-4.62	-4.01	-8.63	10.00	-18.63

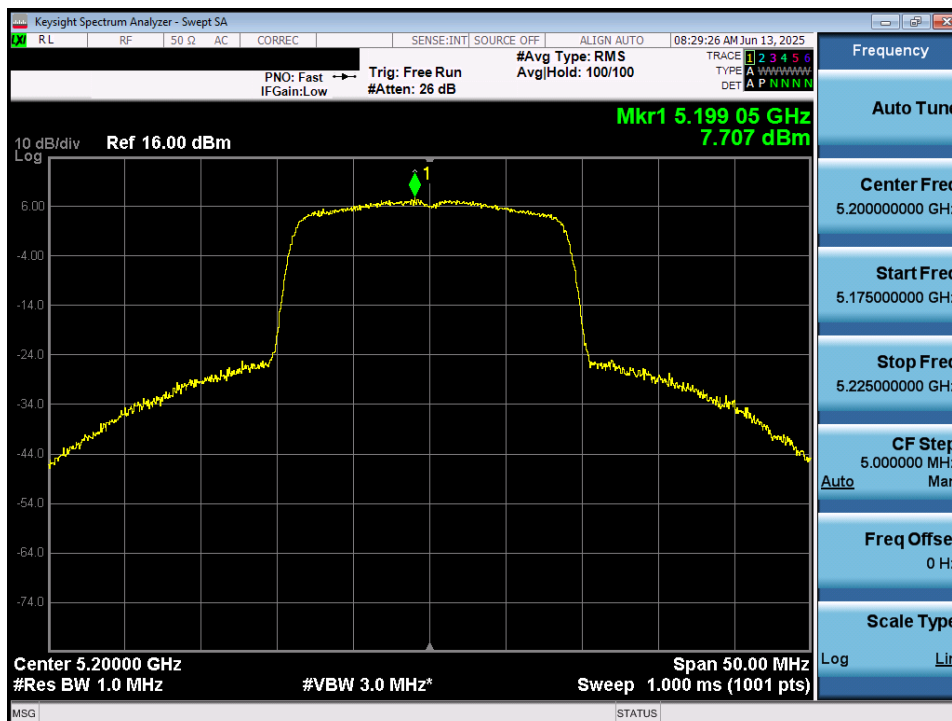
Table 7-19. Band 1 MIMO EIRP Spectral Density Measurements

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 54 of 117

7.5.1 MIMO Antenna-1 Power Spectral Density Measurements

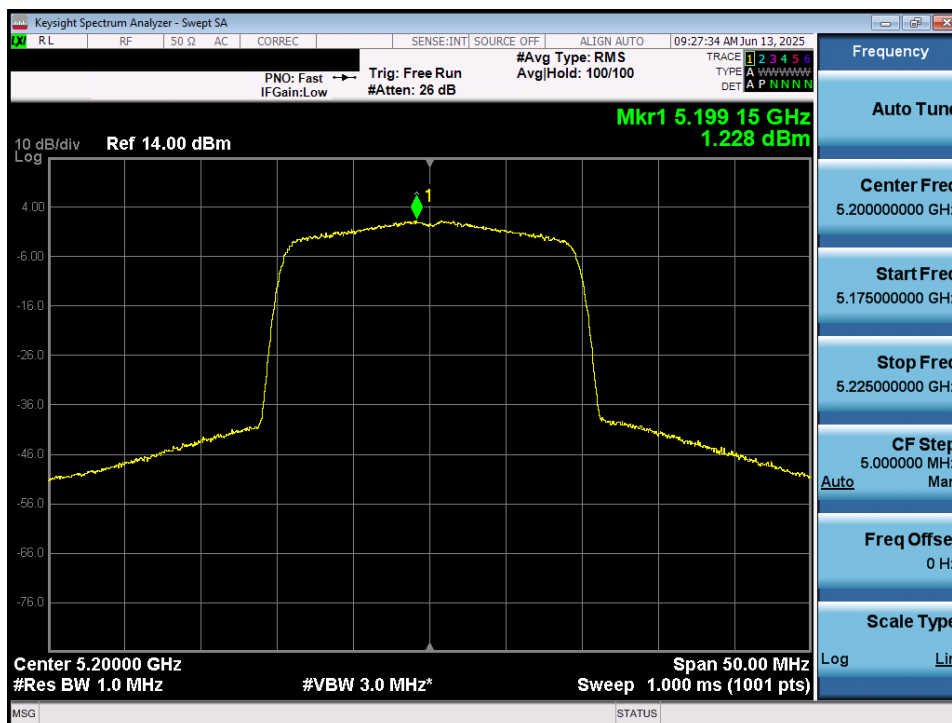


Plot 7-51. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 1) – Ch. 40)

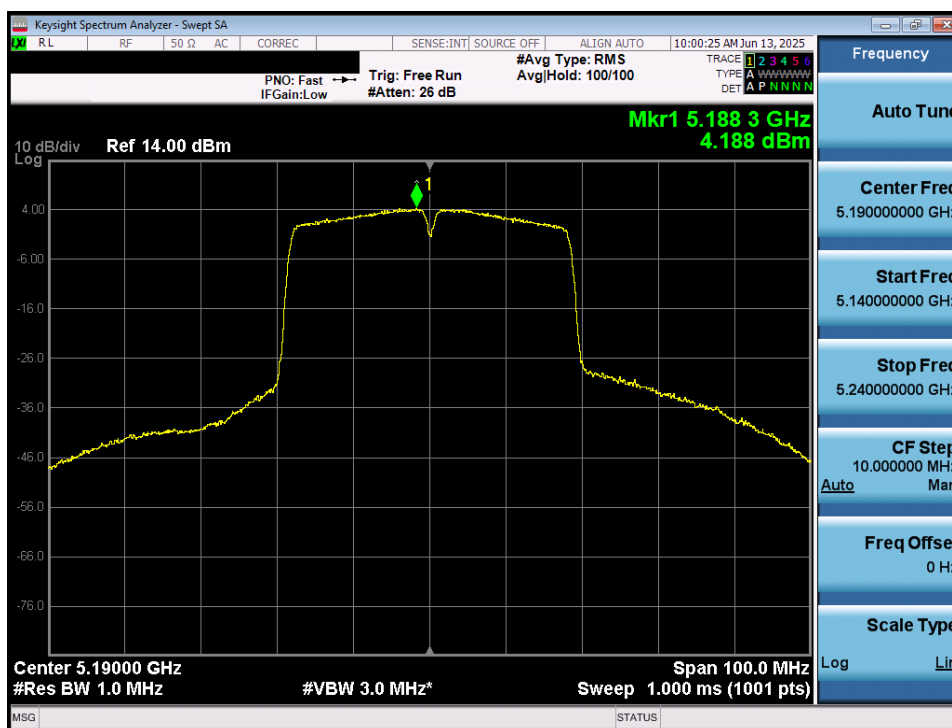


Plot 7-52. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 55 of 117

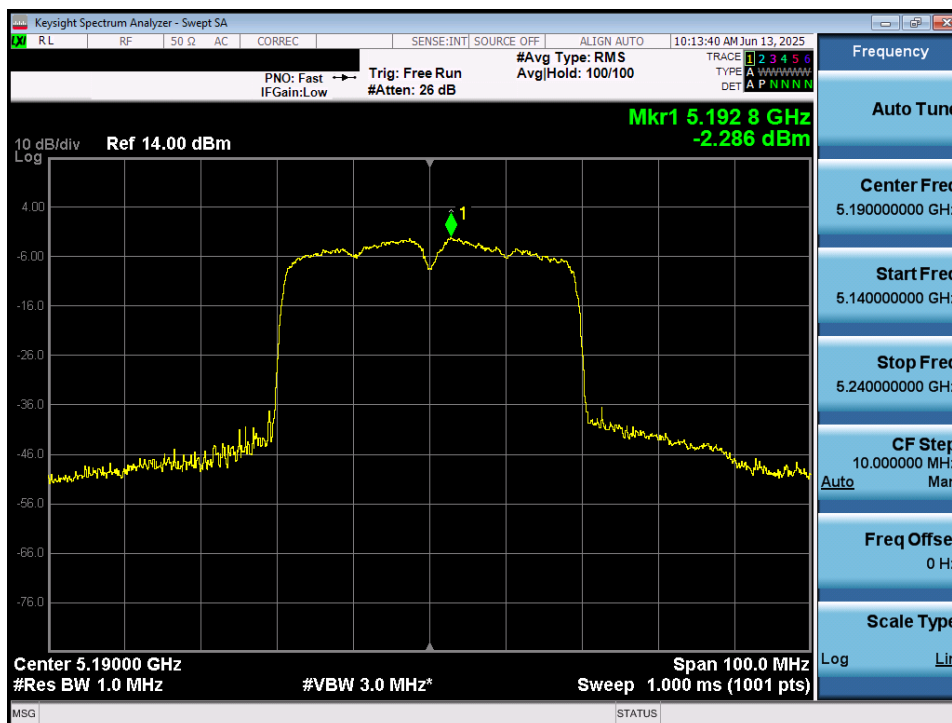


Plot 7-53. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

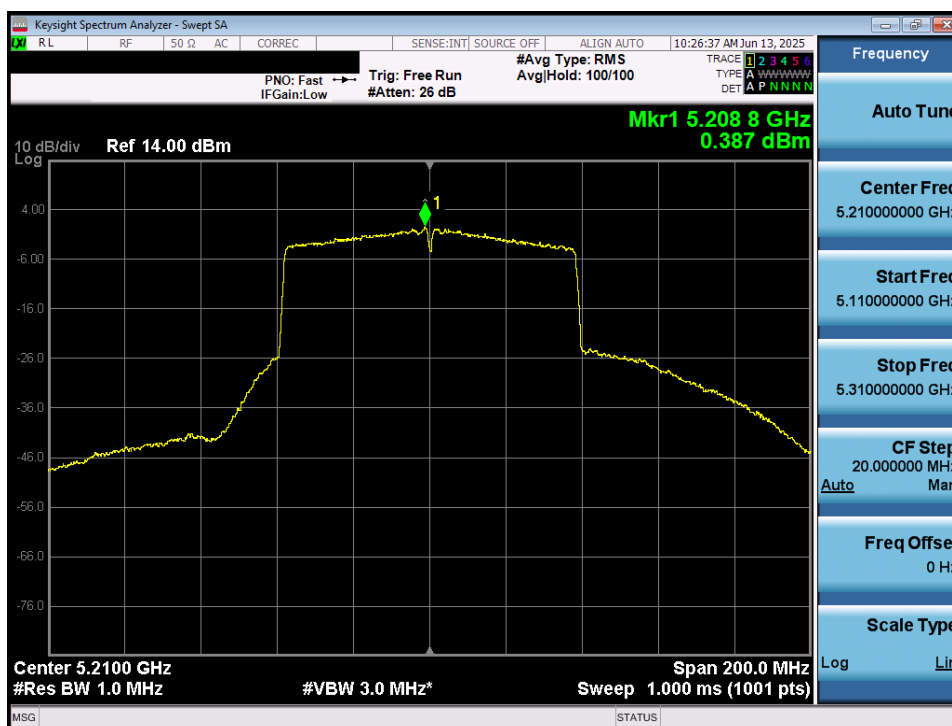


Plot 7-54. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 56 of 117

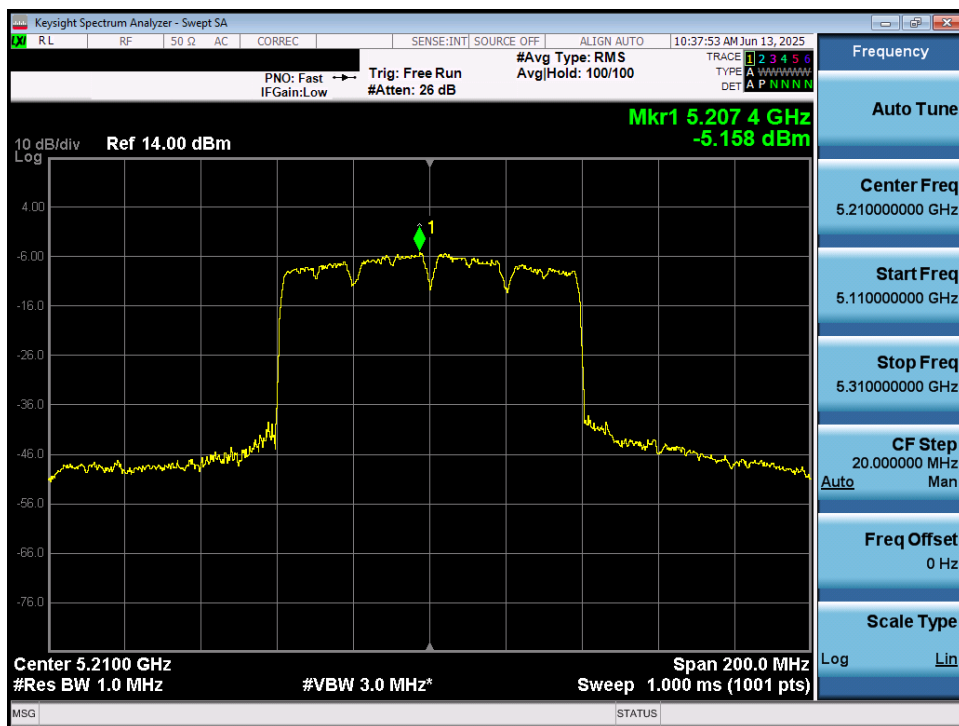


Plot 7-55. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)



Plot 7-56. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 57 of 117

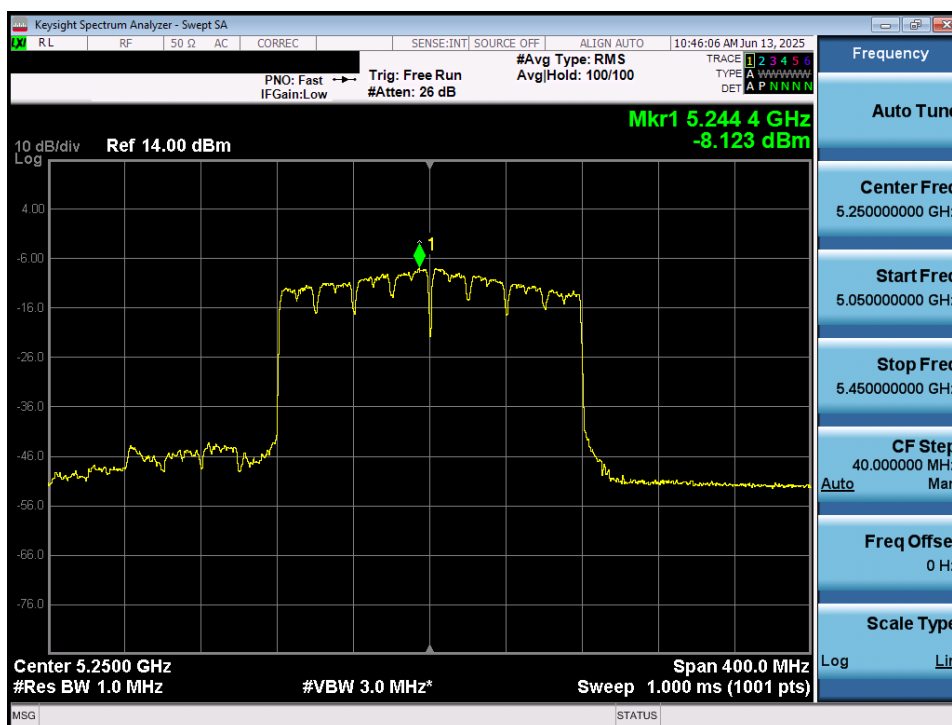


Plot 7-57. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

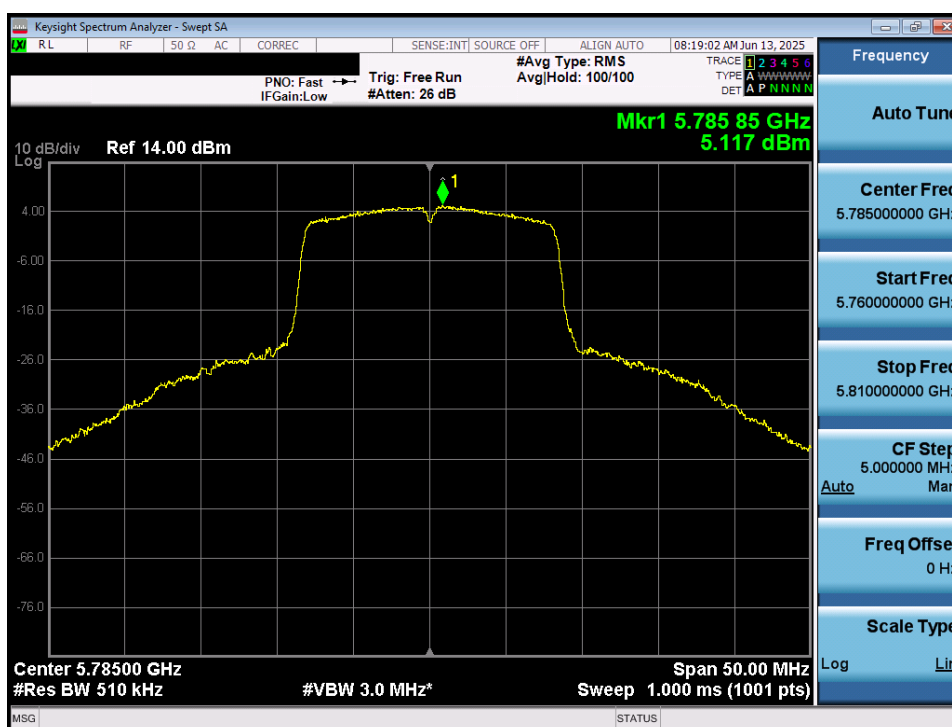


Plot 7-58. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 58 of 117

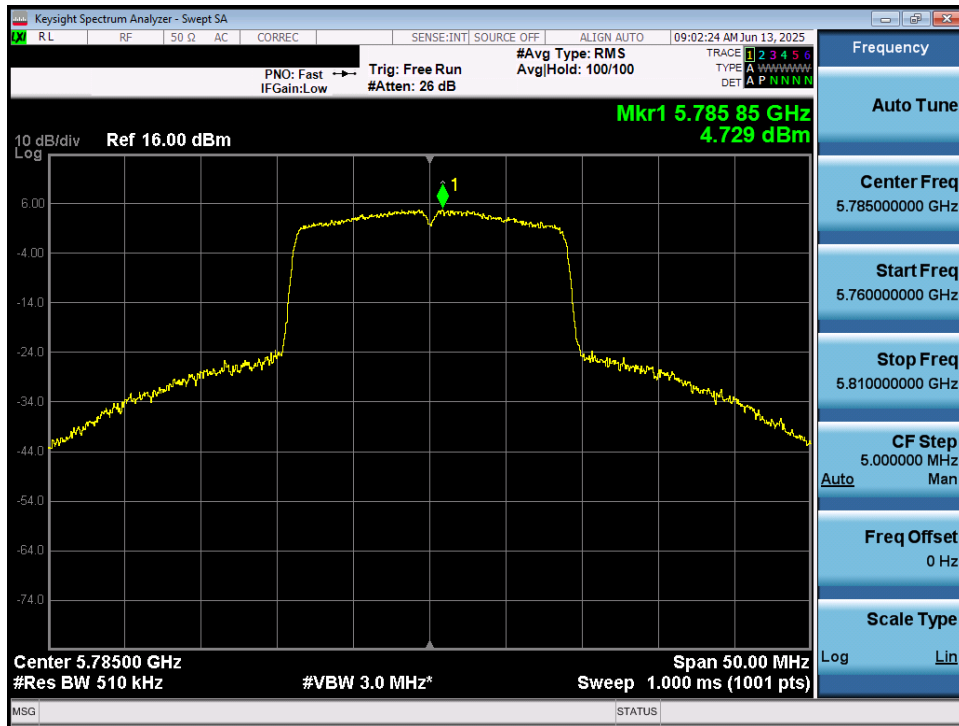


Plot 7-59. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 1/2A) – Ch. 50)

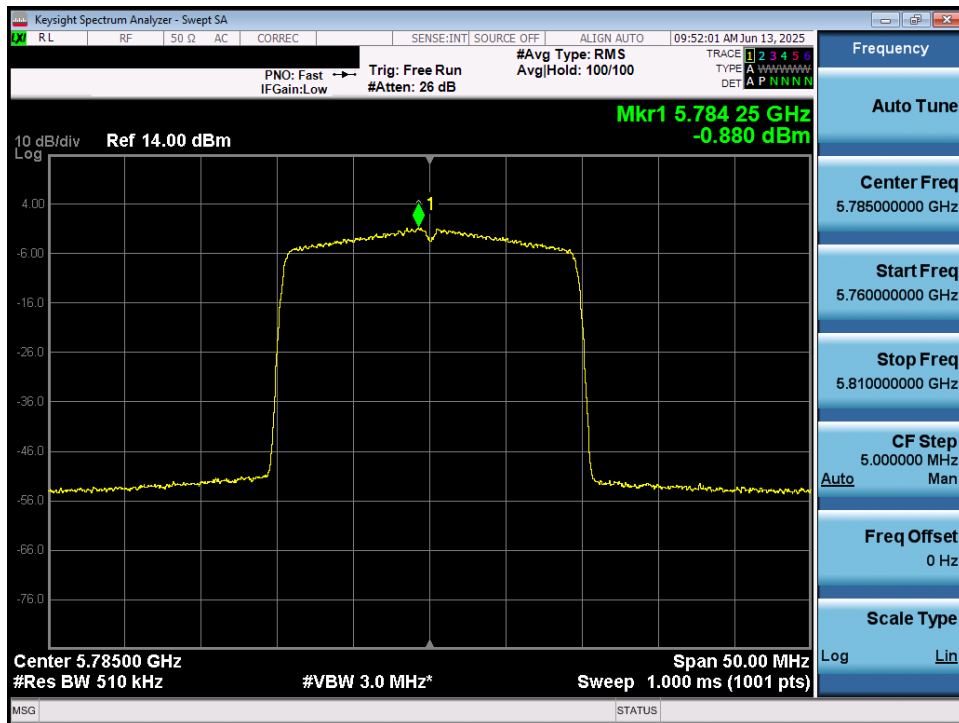


Plot 7-60. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 59 of 117



Plot 7-61. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

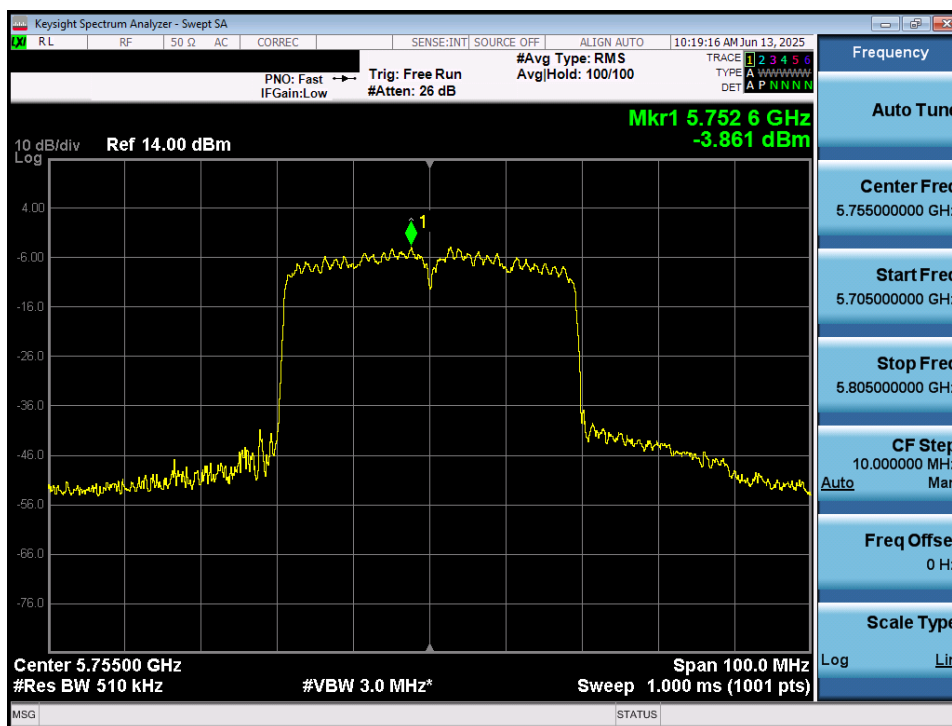


Plot 7-62. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 60 of 117

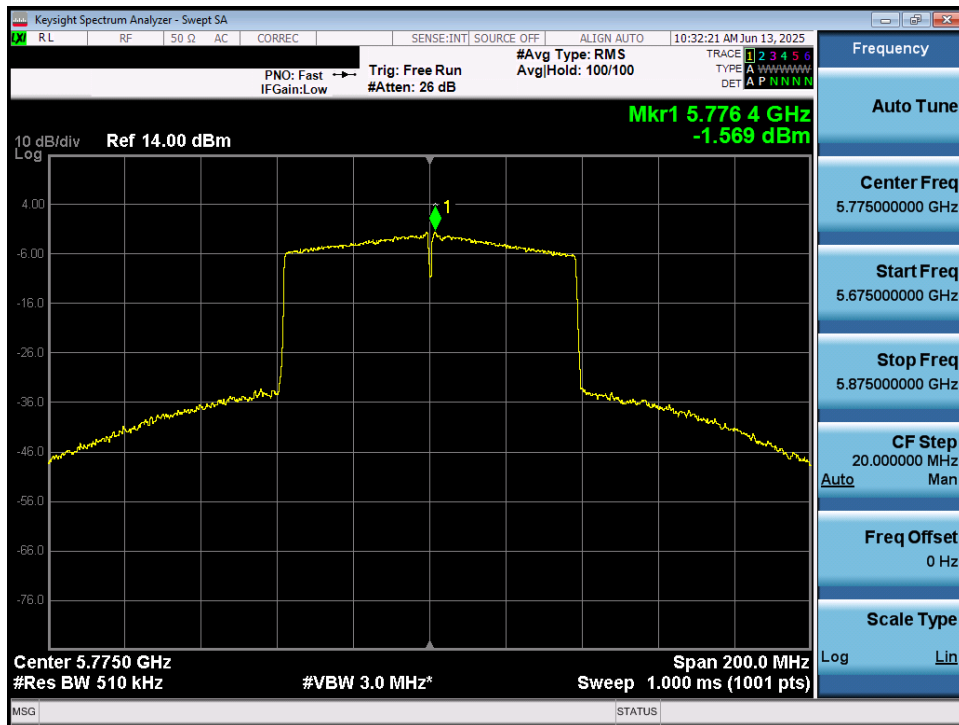


Plot 7-63. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

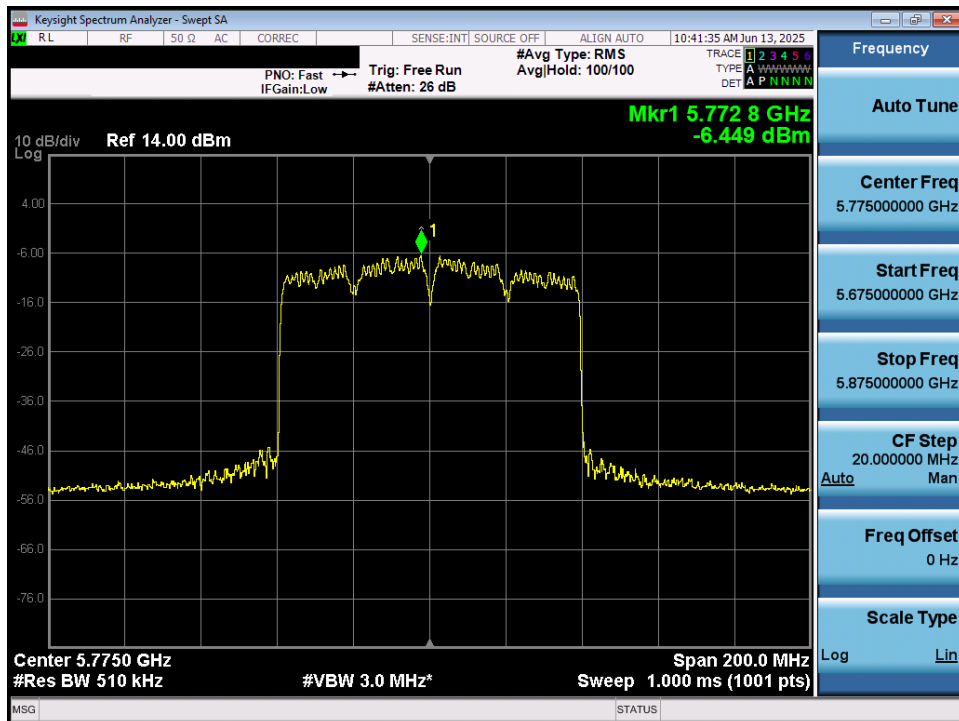


Plot 7-64. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 61 of 117

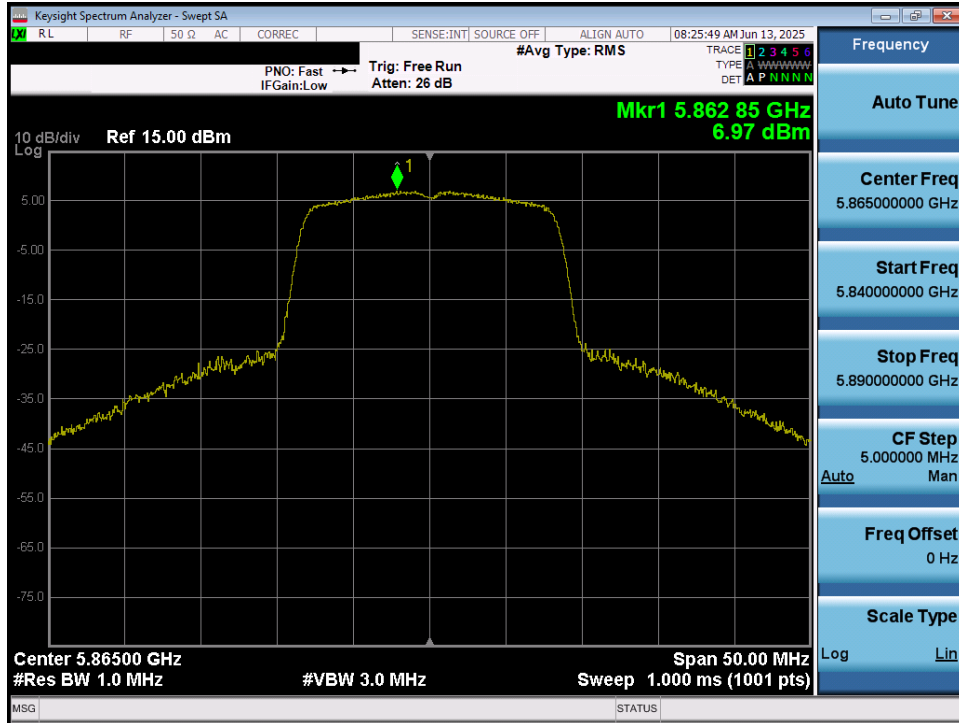


Plot 7-65. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

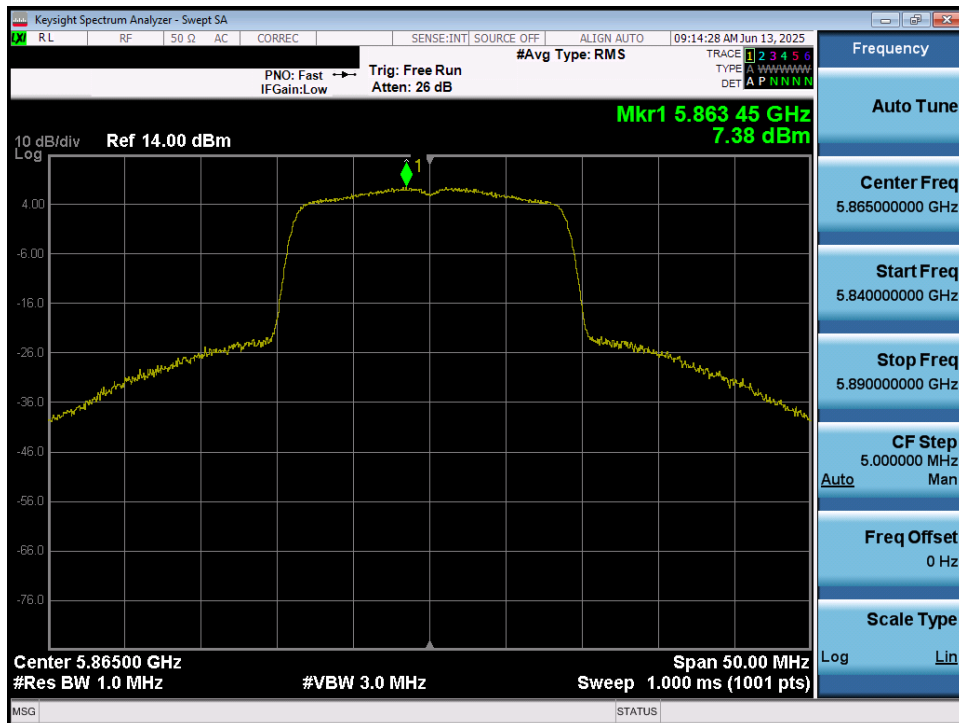


Plot 7-66. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 62 of 117

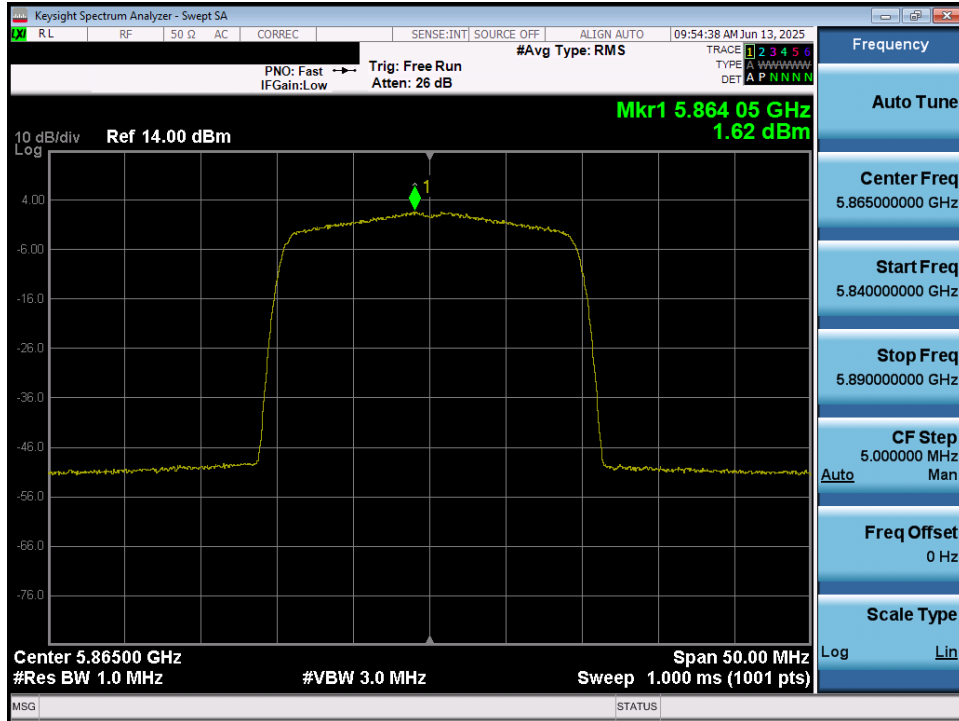


Plot 7-67. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 4) – Ch. 173)

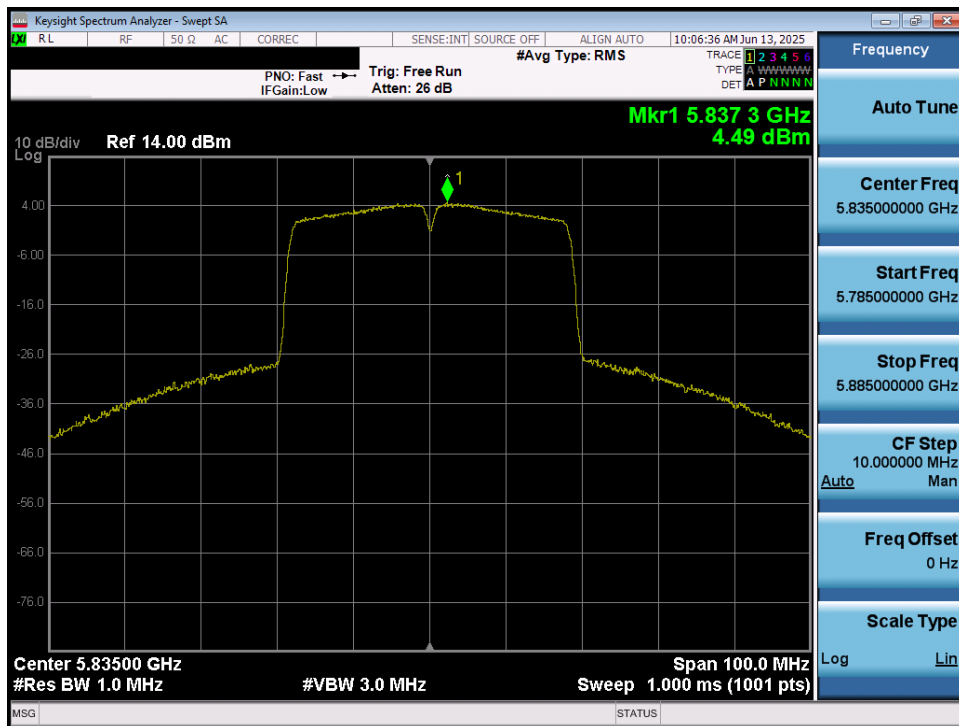


Plot 7-68. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 63 of 117

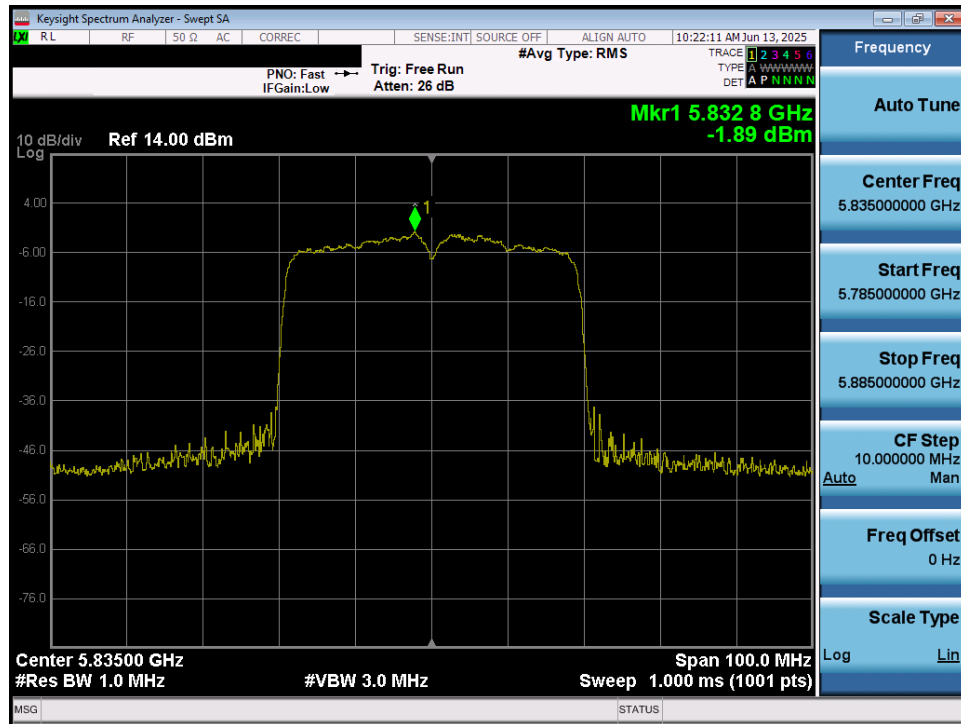


Plot 7-69. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

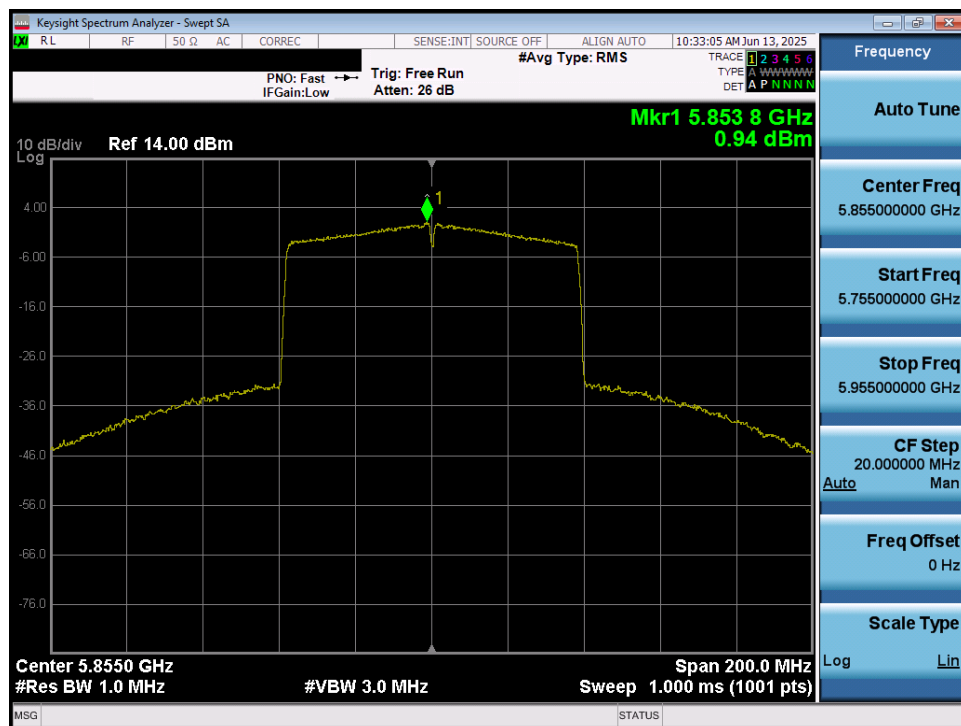


Plot 7-70. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 64 of 117

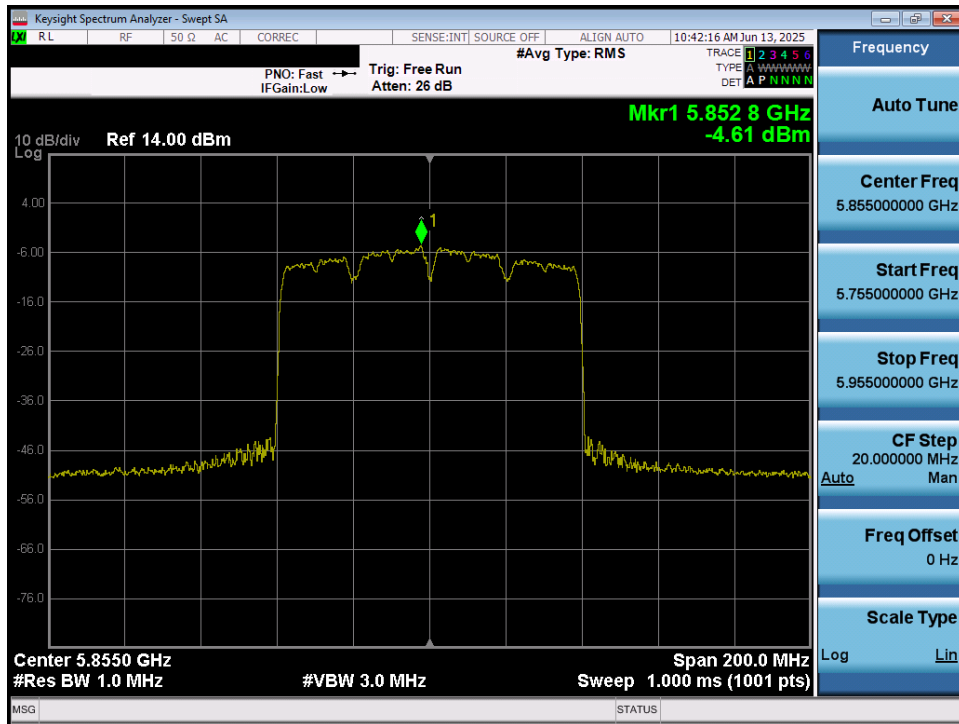


Plot 7-71. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

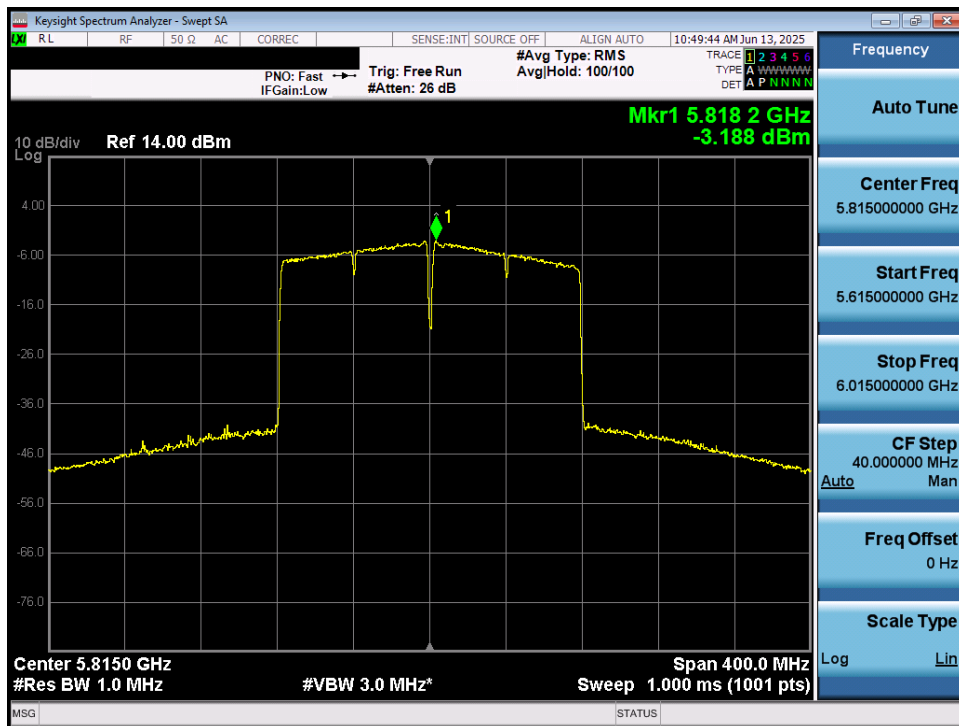


Plot 7-72. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 65 of 117

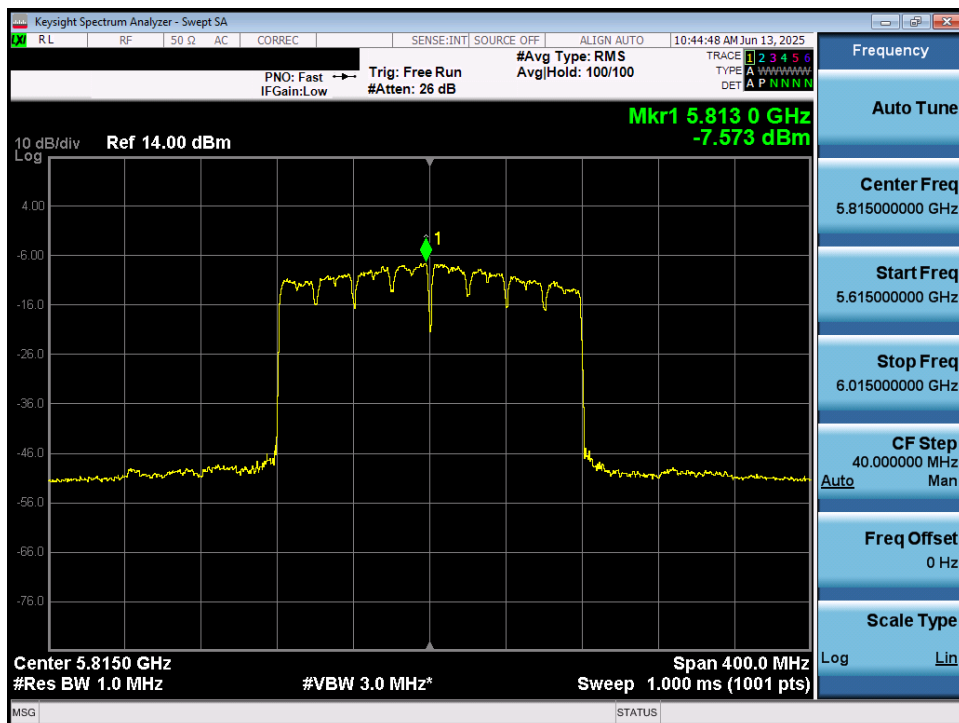


Plot 7-73. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)



Plot 7-74. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) – Ch. 163)

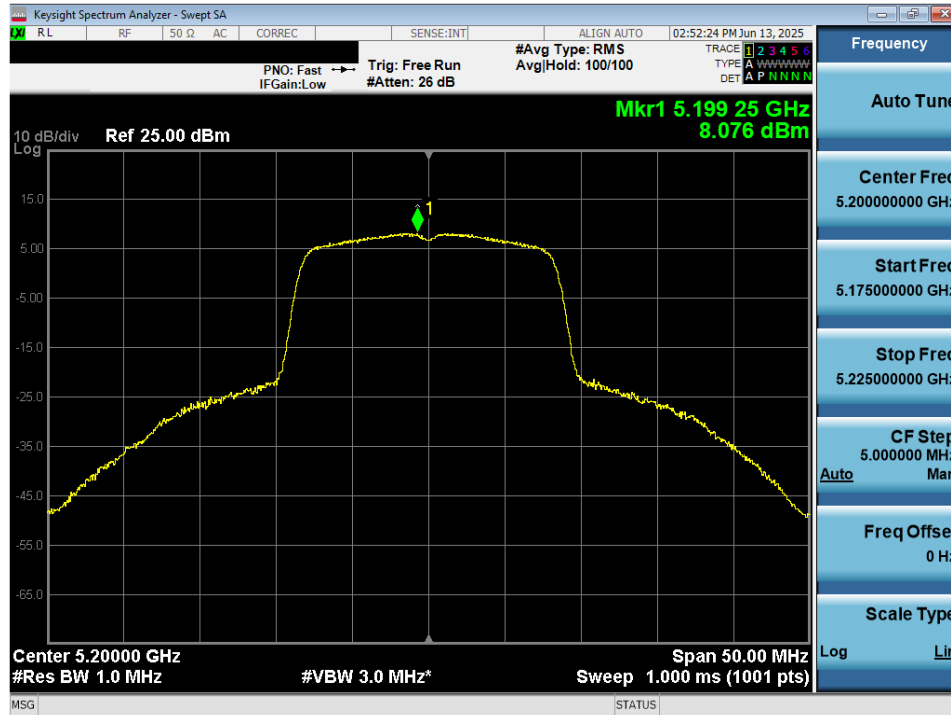
FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 66 of 117



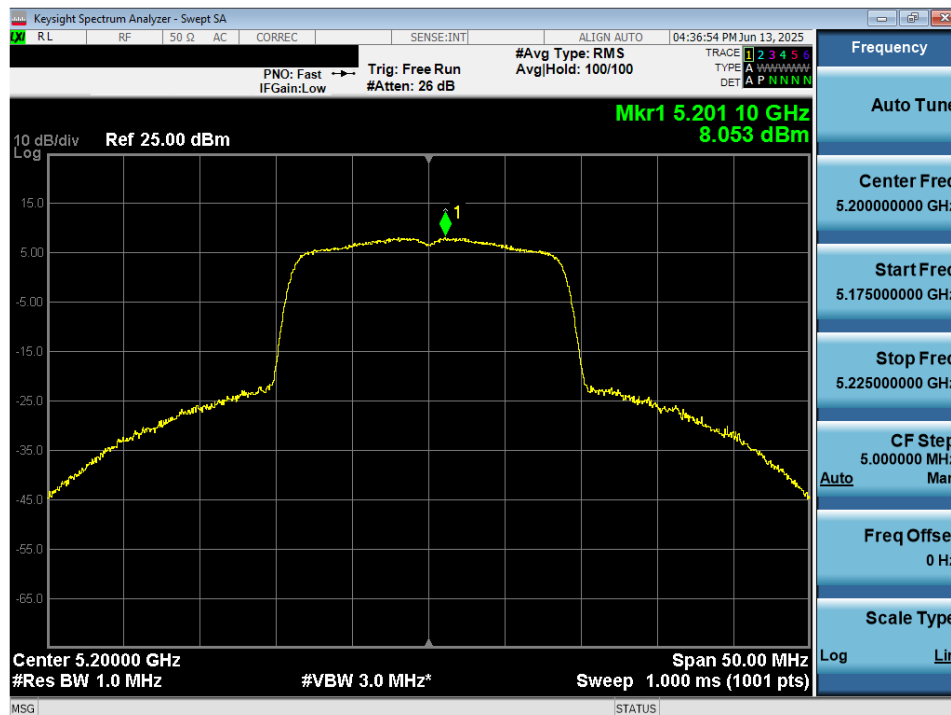
Plot 7-75. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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7.5.2 MIMO Antenna-2 Power Spectral Density Measurements

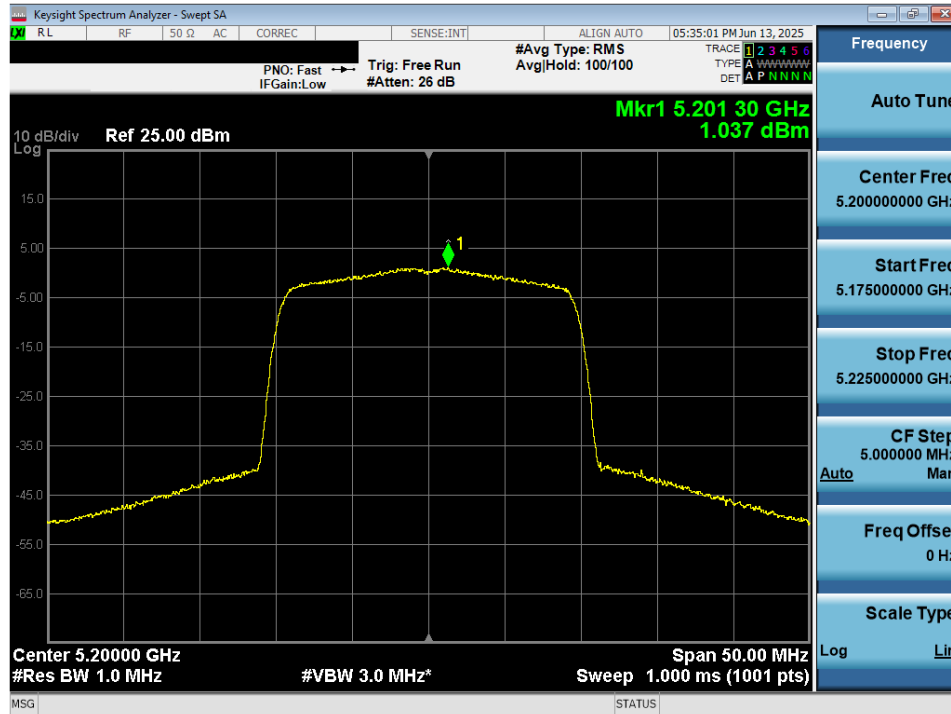


Plot 7-76. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) – Ch. 40)

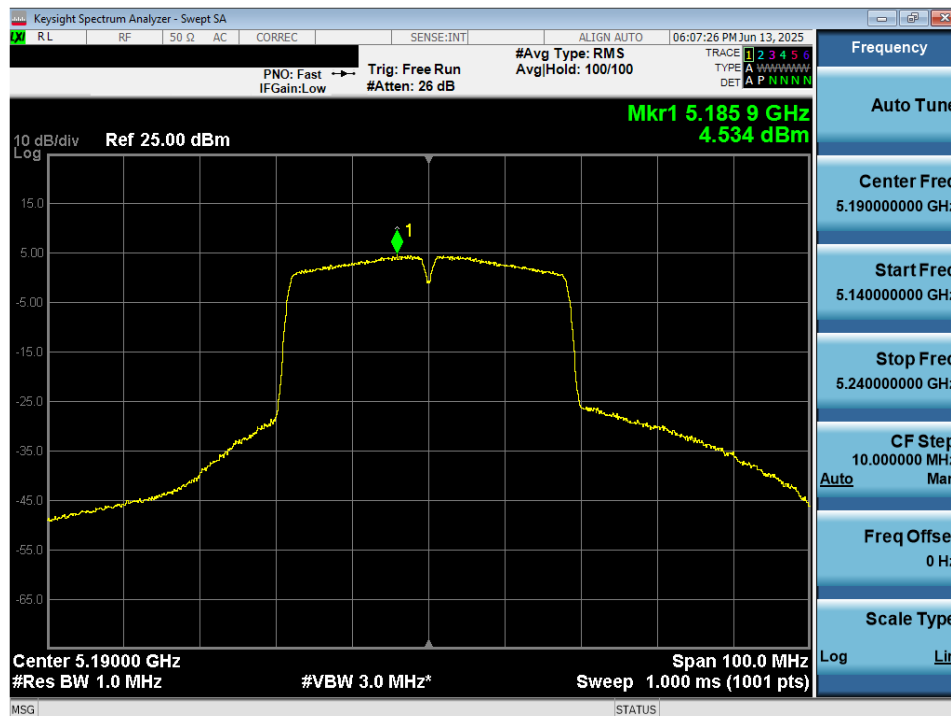


Plot 7-77. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 68 of 117

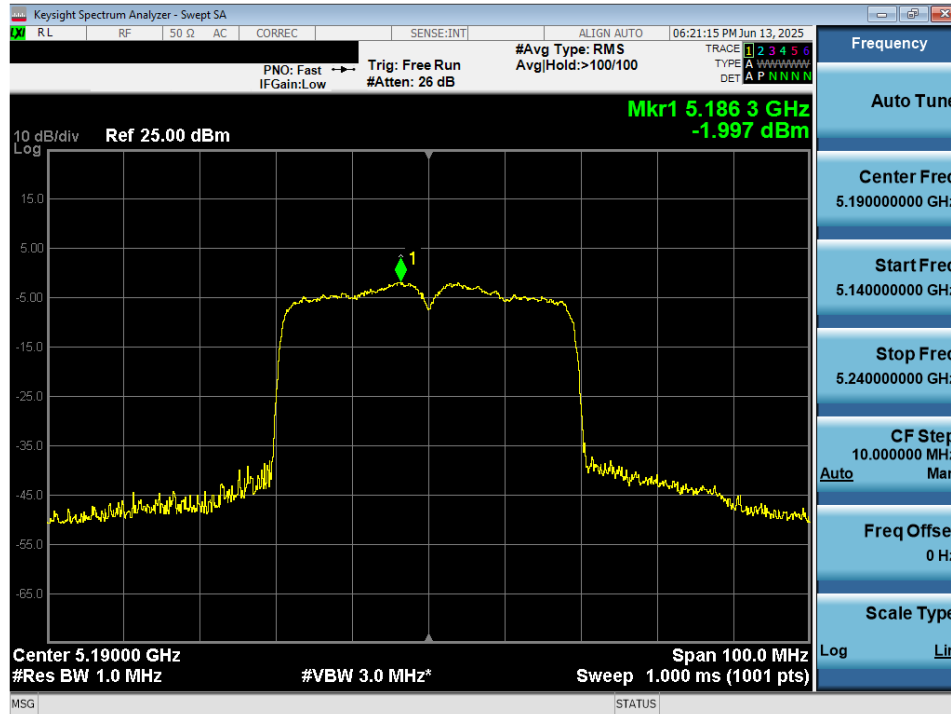


Plot 7-78. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

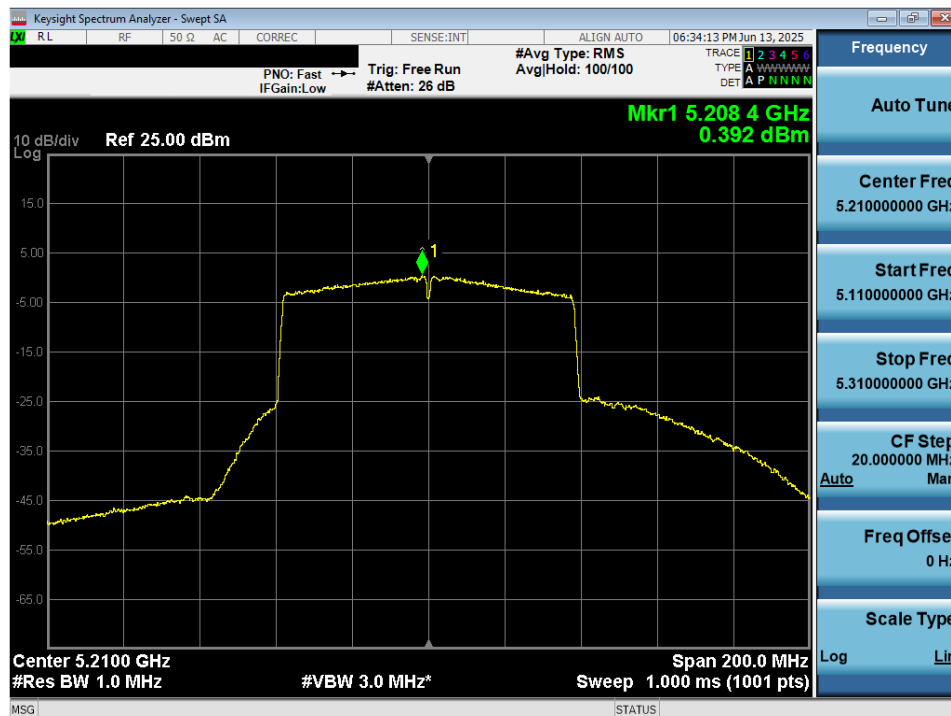


Plot 7-79. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 69 of 117

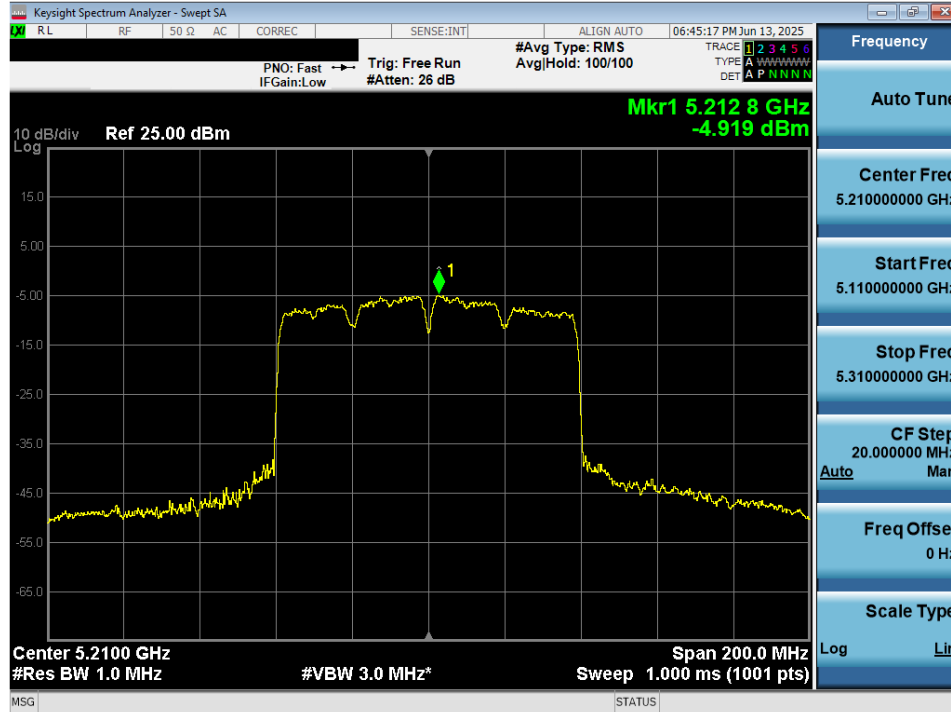


Plot 7-80. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

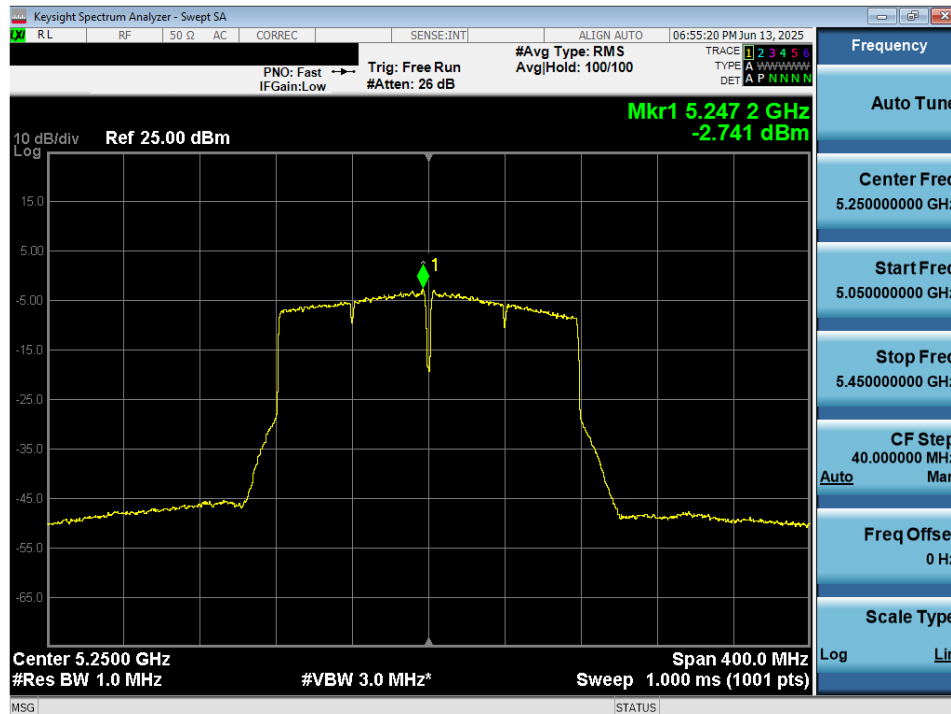


Plot 7-81. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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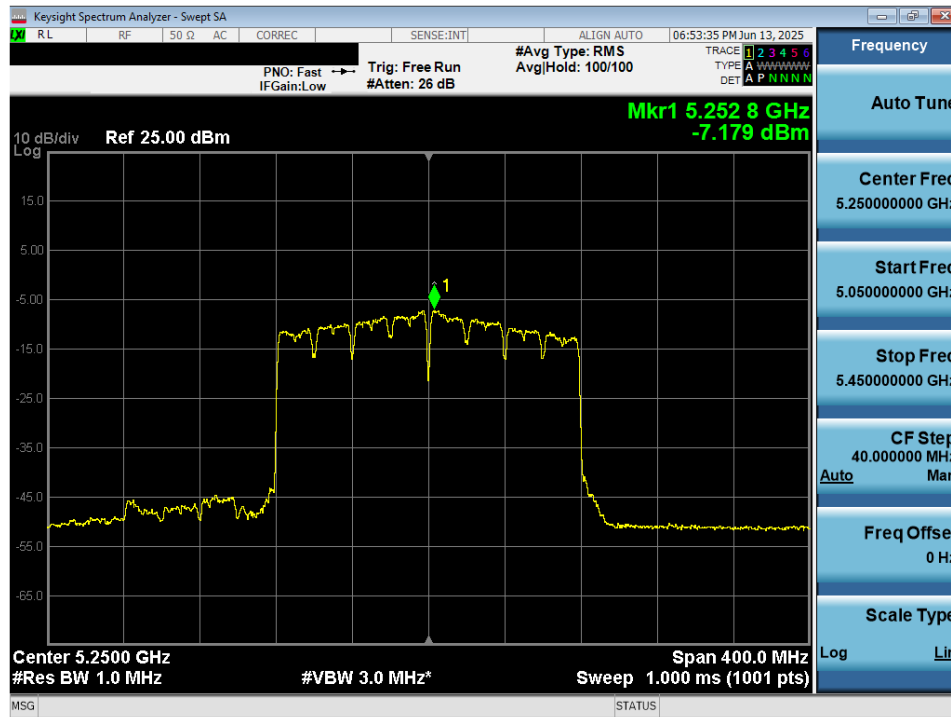


Plot 7-82. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

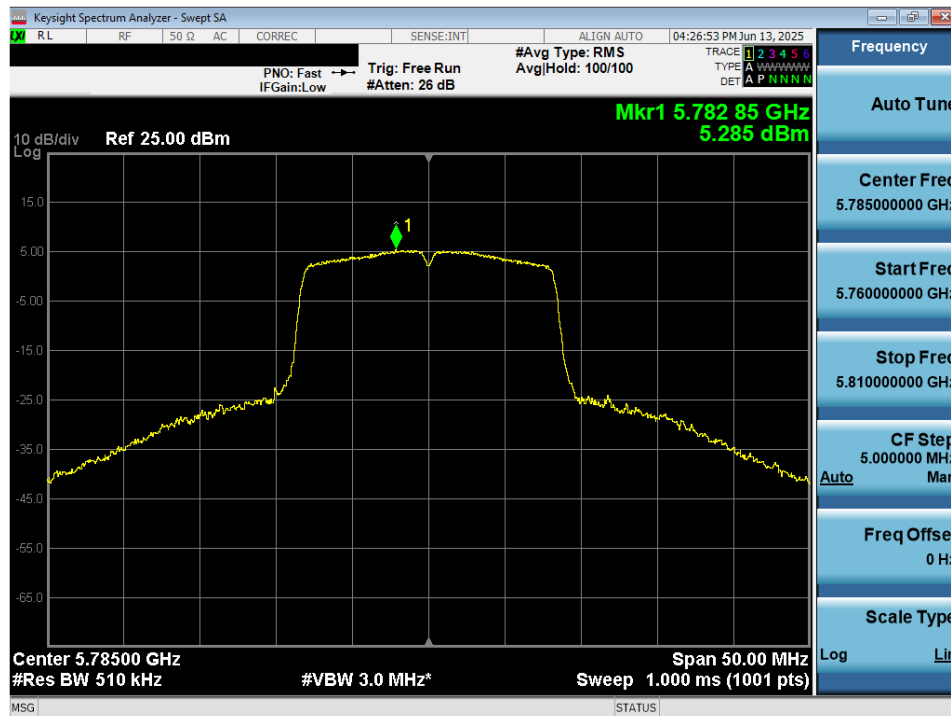


Plot 7-83. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 71 of 117

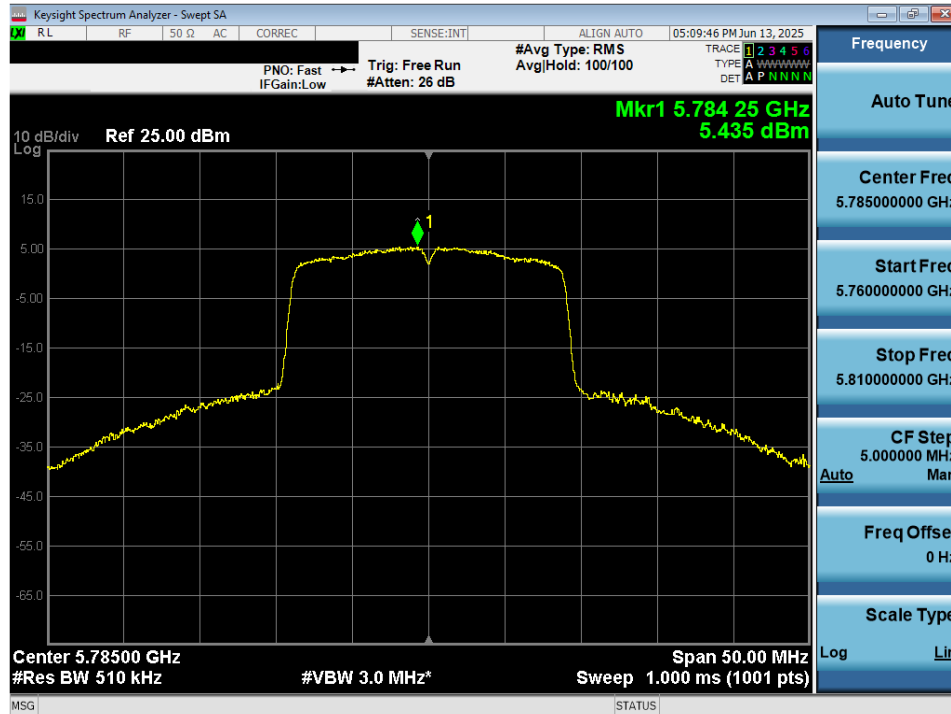


Plot 7-84. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) – Ch. 50)

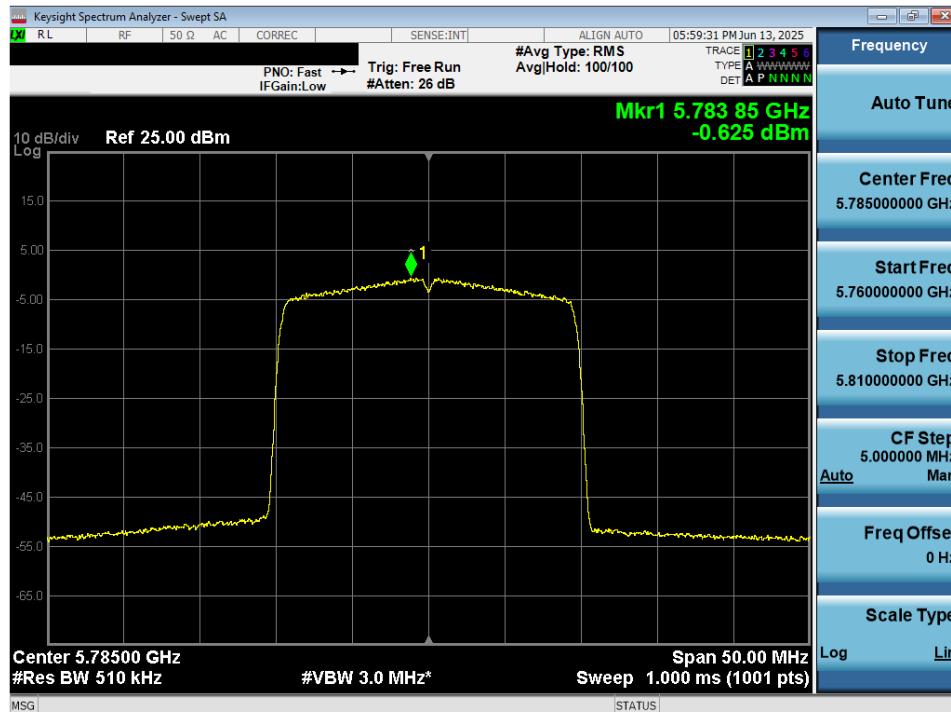


Plot 7-85. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 72 of 117

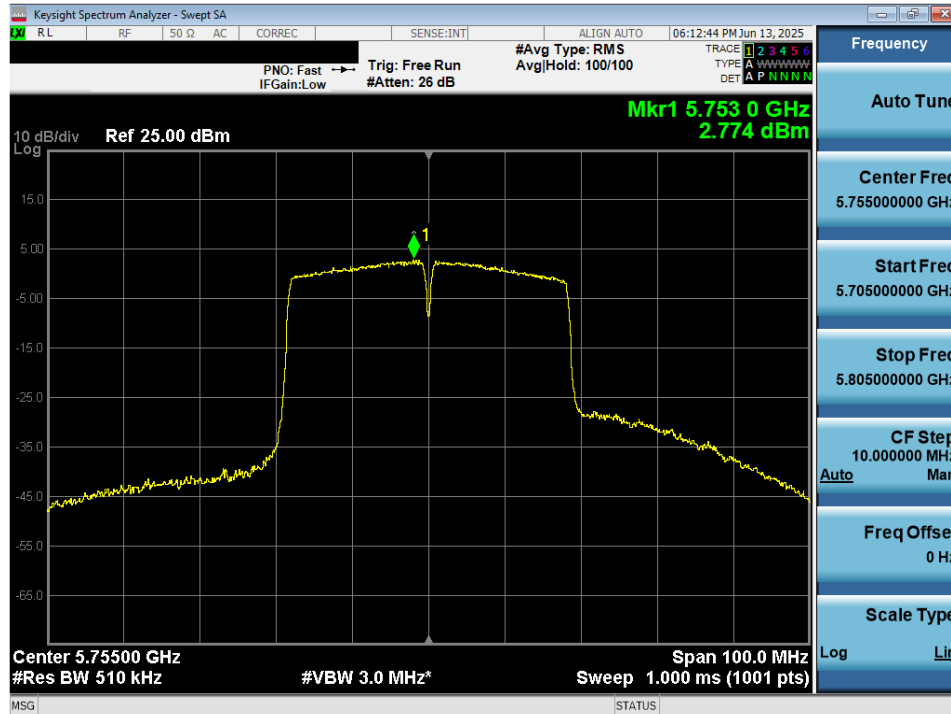


Plot 7-86. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

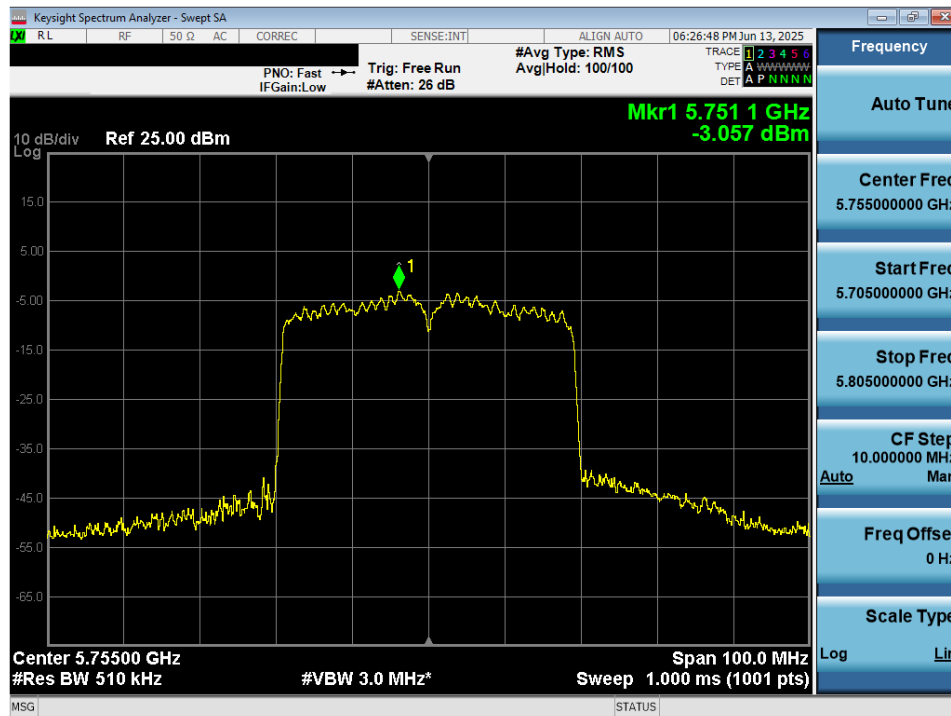


Plot 7-87. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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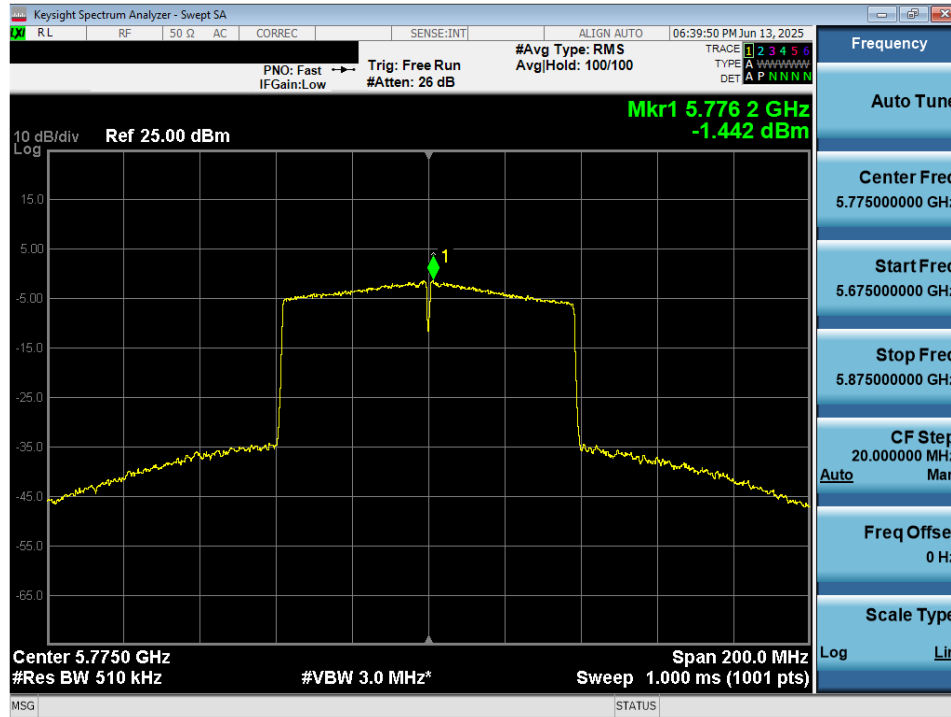


Plot 7-88. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

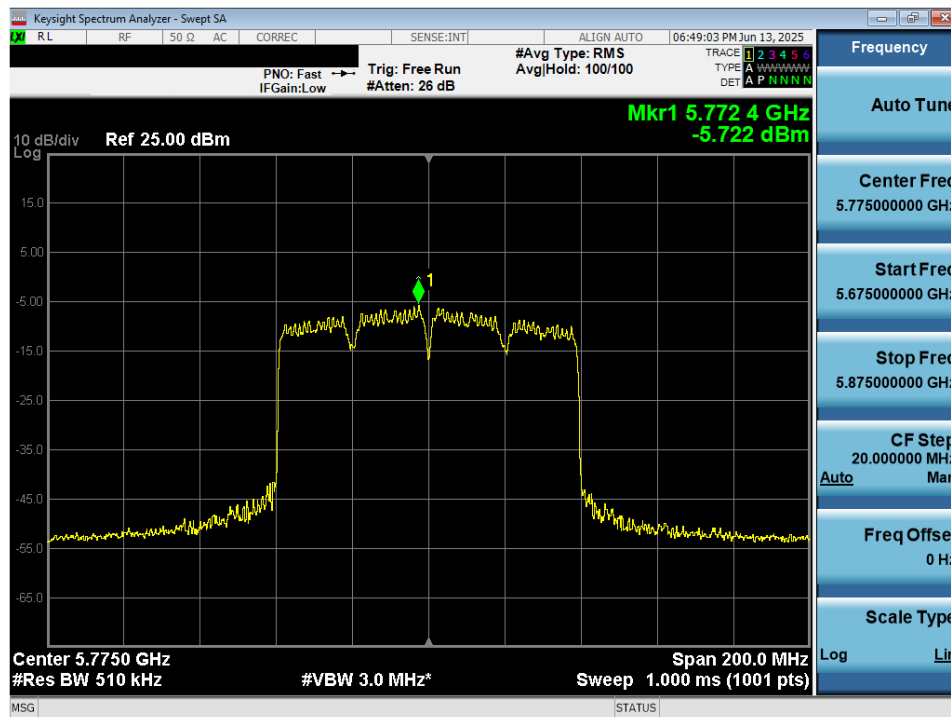


Plot 7-89. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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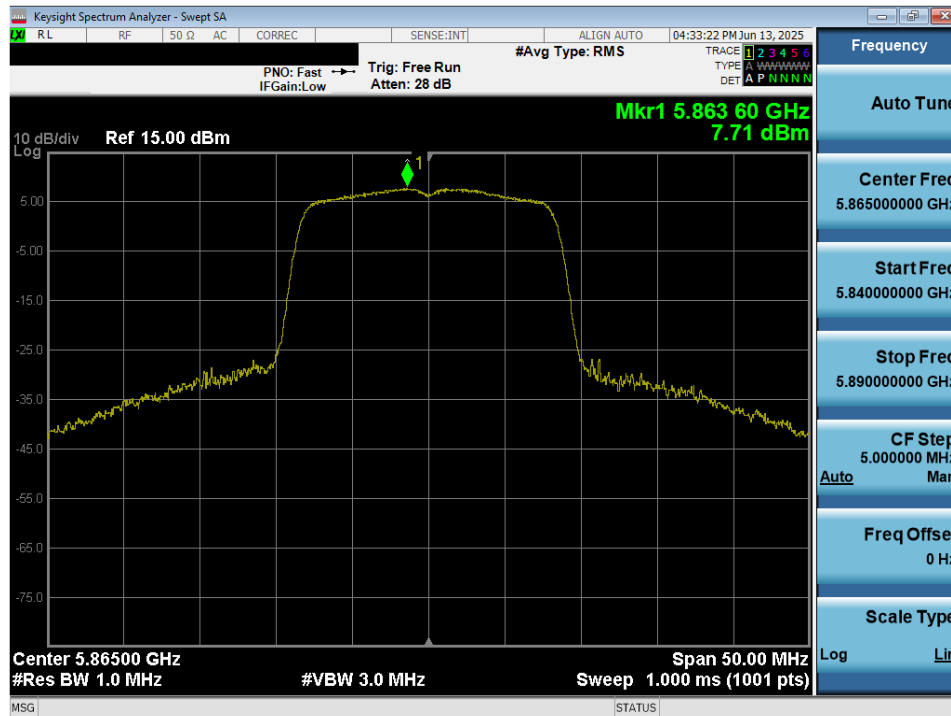


Plot 7-90. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

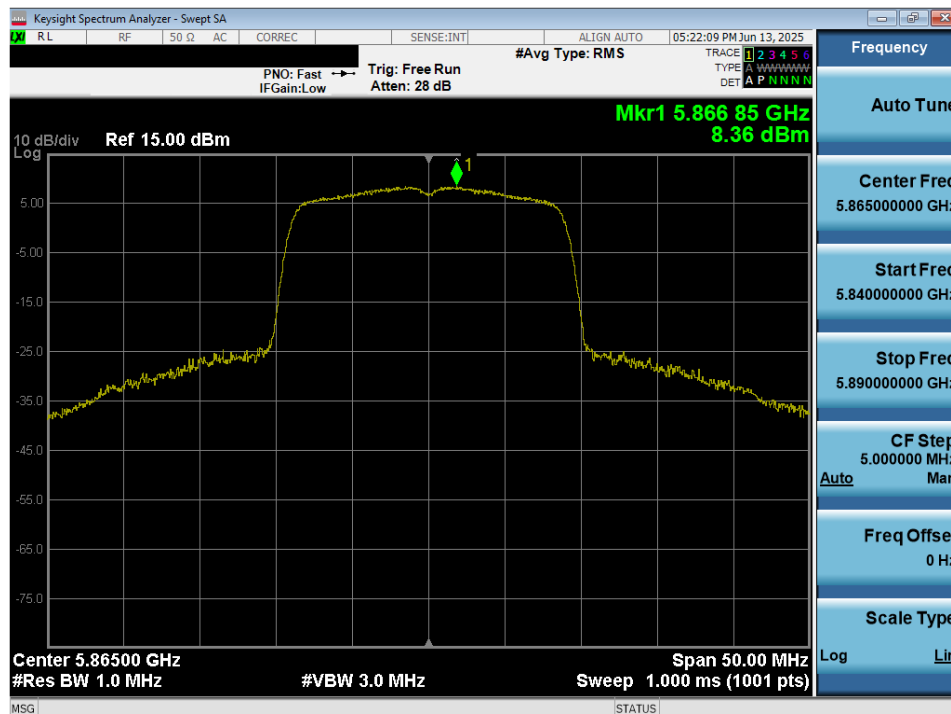


Plot 7-91. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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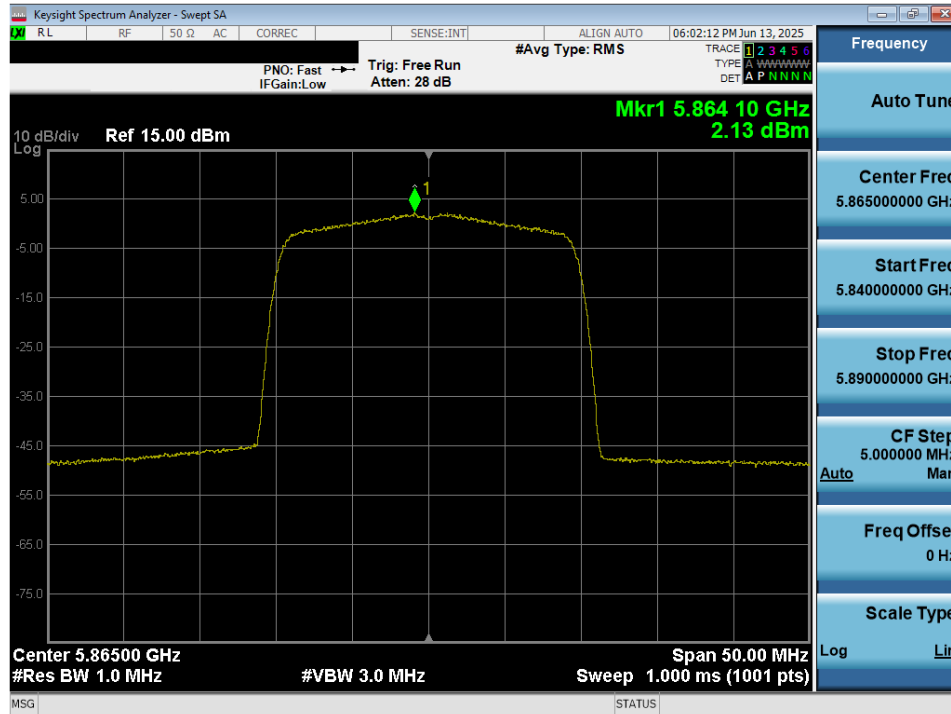


Plot 7-92. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 4) – Ch. 173)

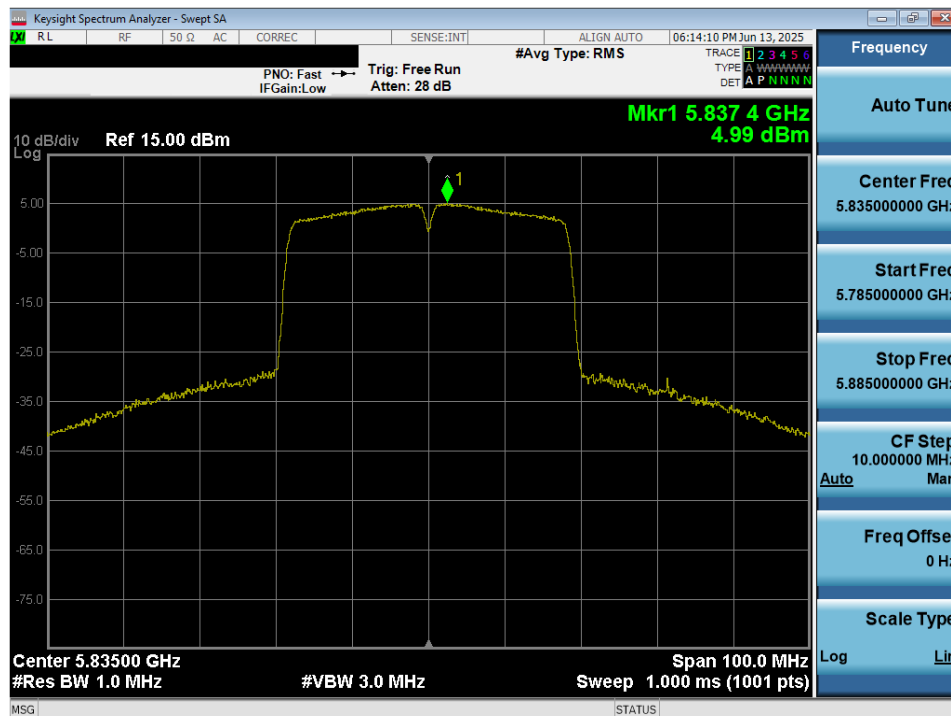


Plot 7-93. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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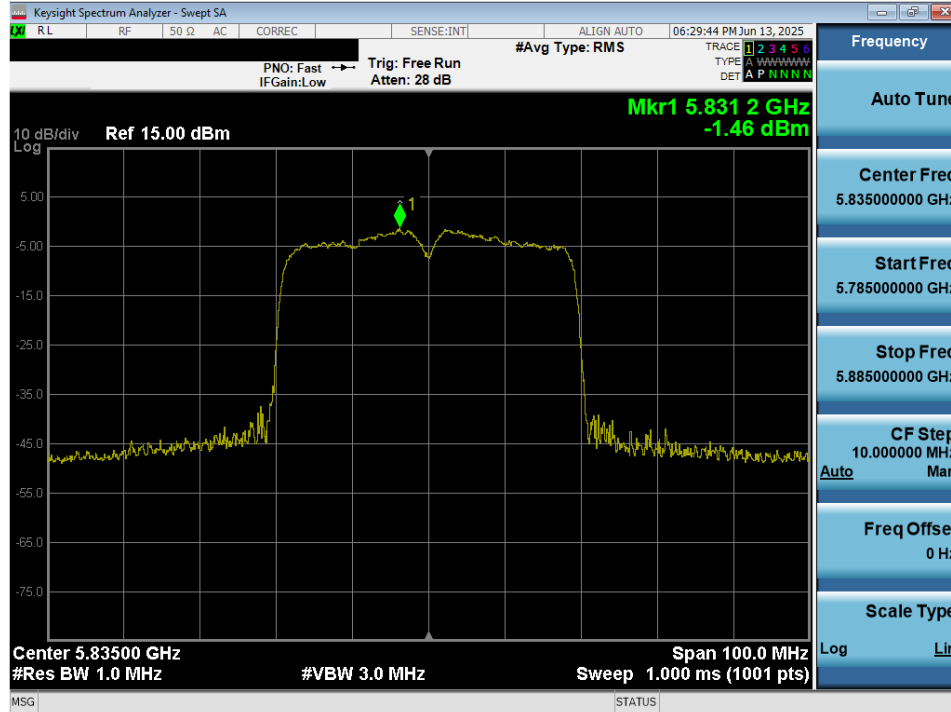


Plot 7-94. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

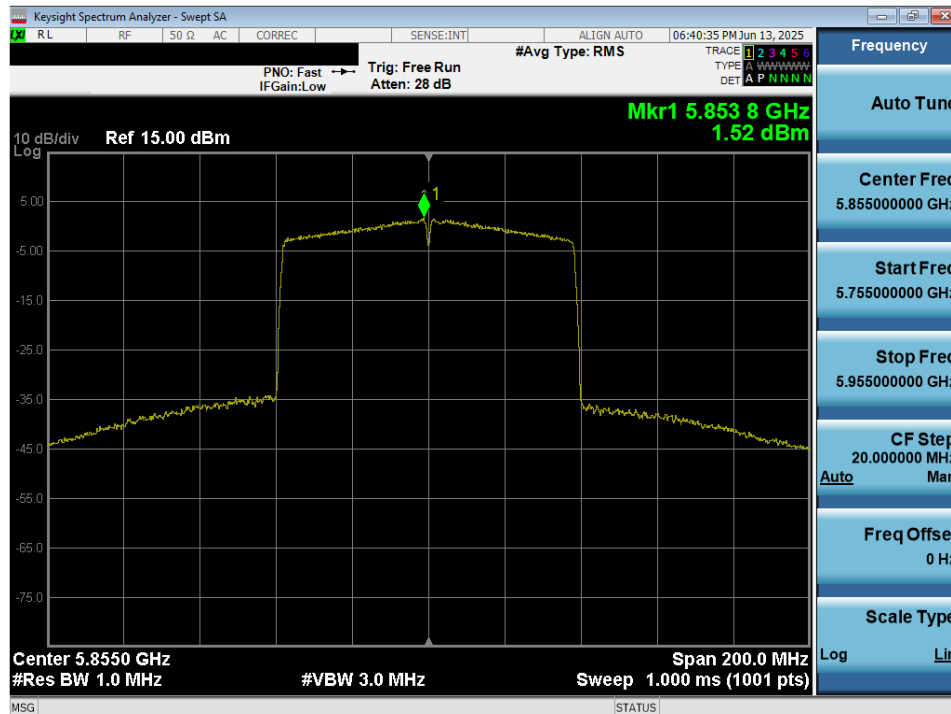


Plot 7-95. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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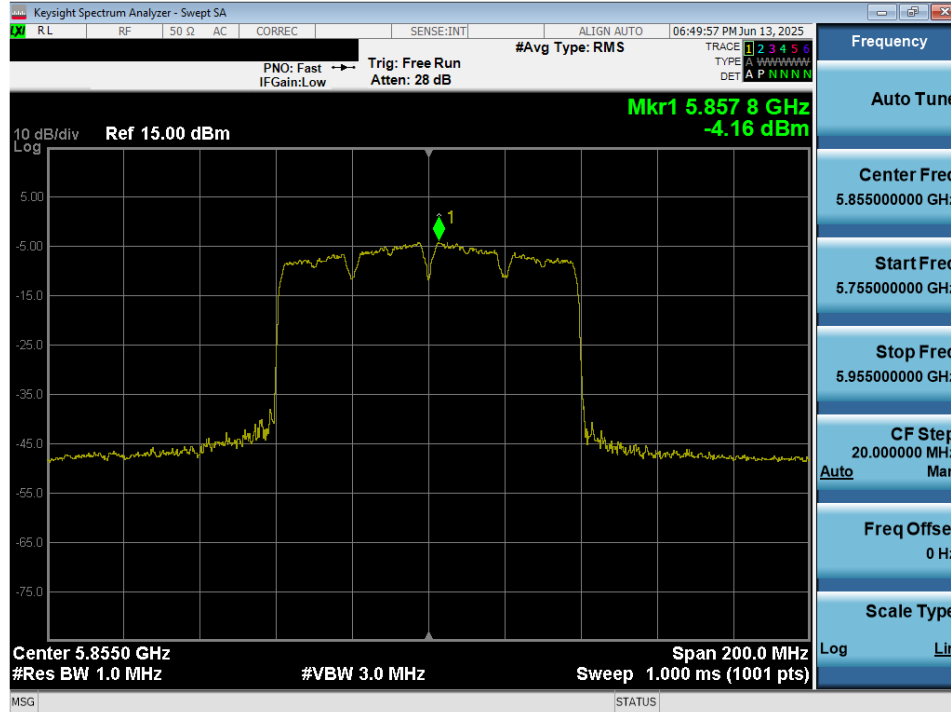


Plot 7-96. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

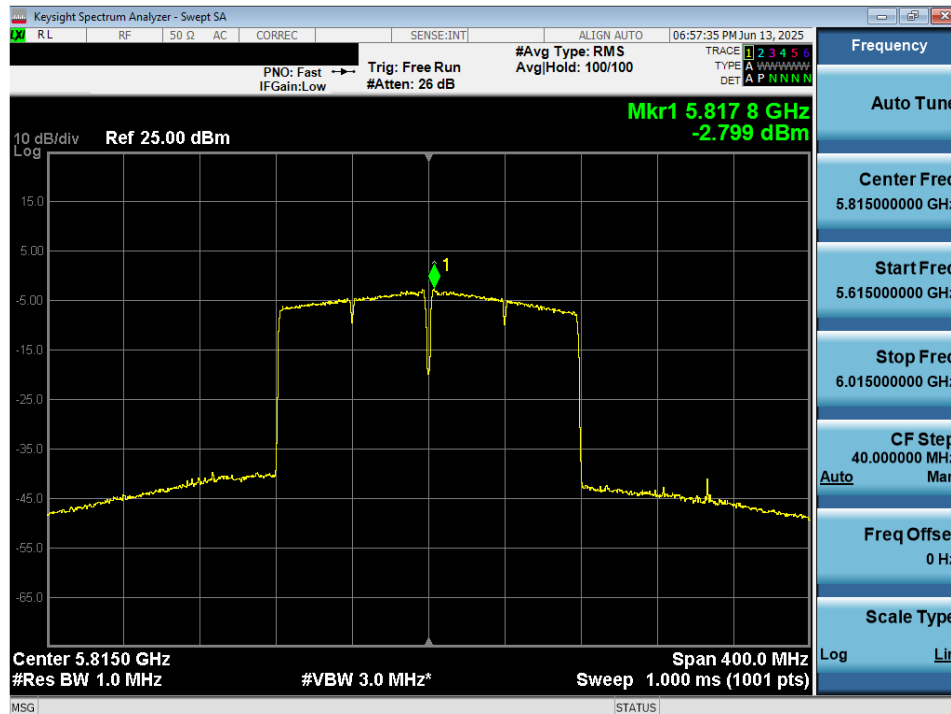


Plot 7-97. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-98. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)



Plot 7-99. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-100. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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Note:

Per ANSI C63.10:2020 Section 14.5.2.2, the power spectral density at Antenna-1 and Antenna-2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 7.26 dBm for Antenna 1 and 8.21 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(7.26 \text{ dBm} + 8.21 \text{ dBm}) = (5.898 \text{ mW} + 6.387 \text{ mW}) = 12.285 \text{ mW} = 10.89 \text{ dBm}$$

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

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 10.89 dBm with directional gain of -4.01 dBi.

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

$$10.89 \text{ dBm} + -4.01 \text{ dBi} = 6.88 \text{ dBm}$$

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7.6 Radiated Emission Measurements

Test Overview and Limit

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

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For transmitters operating in the 5.850 – 5.895 GHz band: all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of -5dBm/MHz and shall decrease linearly up to an e.i.r.p. of -27dBm/MHz at or above 5.925GHz, and all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27dBm/MHz at 5.65 GHz increasing linearly to 10dBm/MHz at 5.7GHz and from 5.7GHz increasing linearly to a level of 15.6dBm/MHz at 5.72GHz, and from 5.72GHz increasing linearly to a level of 27dBm/MHz at 5.725GHz.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in the table below per FCC §15.209 and RSS-Gen (8.9).

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

Table 7-20. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Sections 12.7.7.2, 12.7.6, 12.7.5 (Radiated Spurious Emissions)

ANSI C63.10:2020 – Section 12.7.4.4 (Band Edge Measurements)

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Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

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

Peak Field Strength Measurements

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

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

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

Test Setup

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

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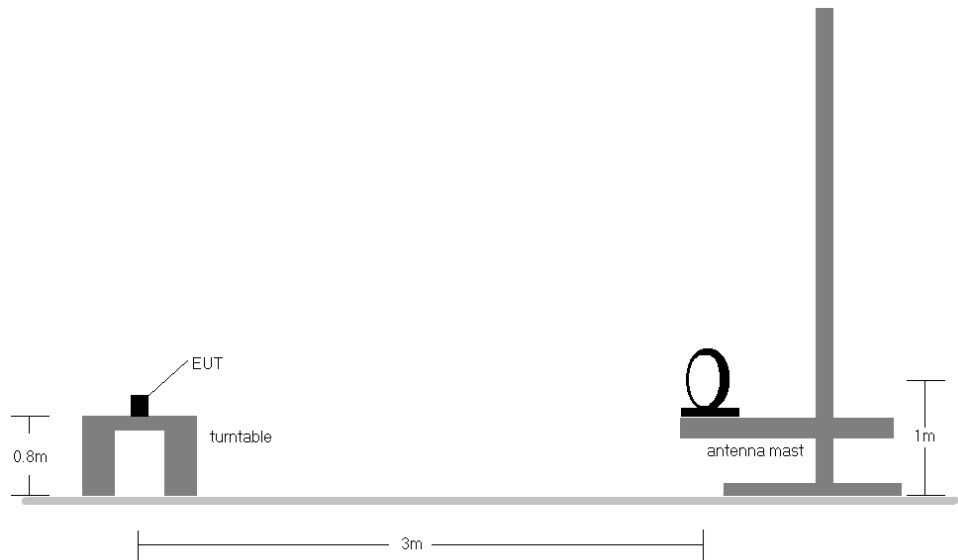


Figure 7-5. Radiated Test Setup < 30MHz

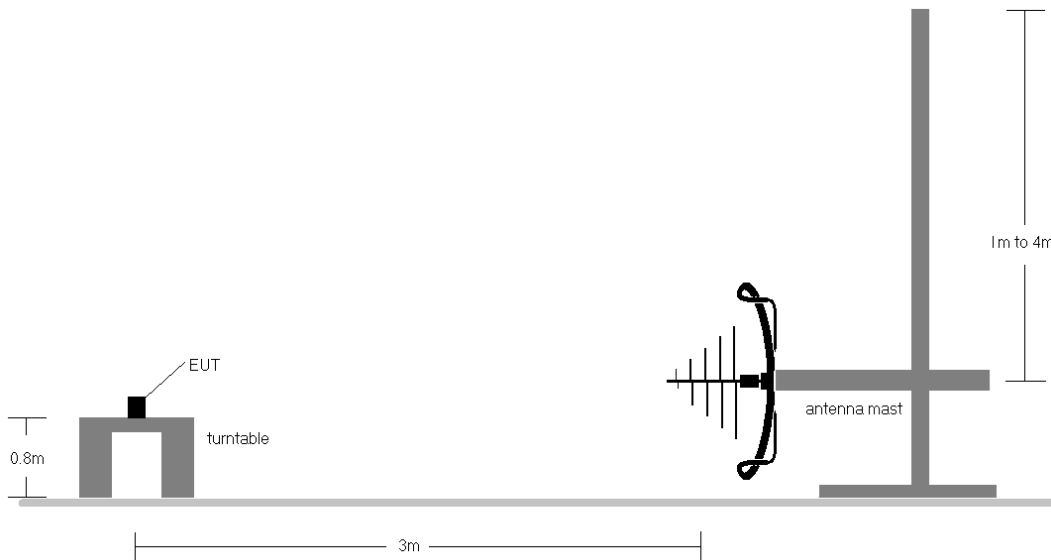


Figure 7-6. Radiated Test Setup < 1GHz

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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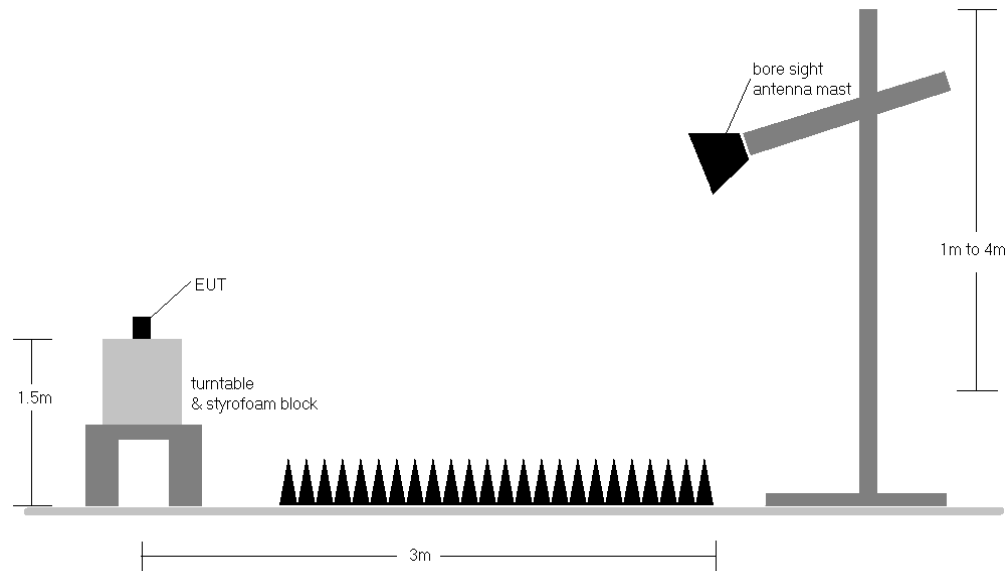


Figure 7-7. Radiated Test Setup > 1GHz

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limits shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
3. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported, however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
6. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
7. The “-” shown in the following RSE tables are used to denote a noise floor measurement.
8. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
9. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.

Sample Calculations

Determining Spurious Emissions Levels

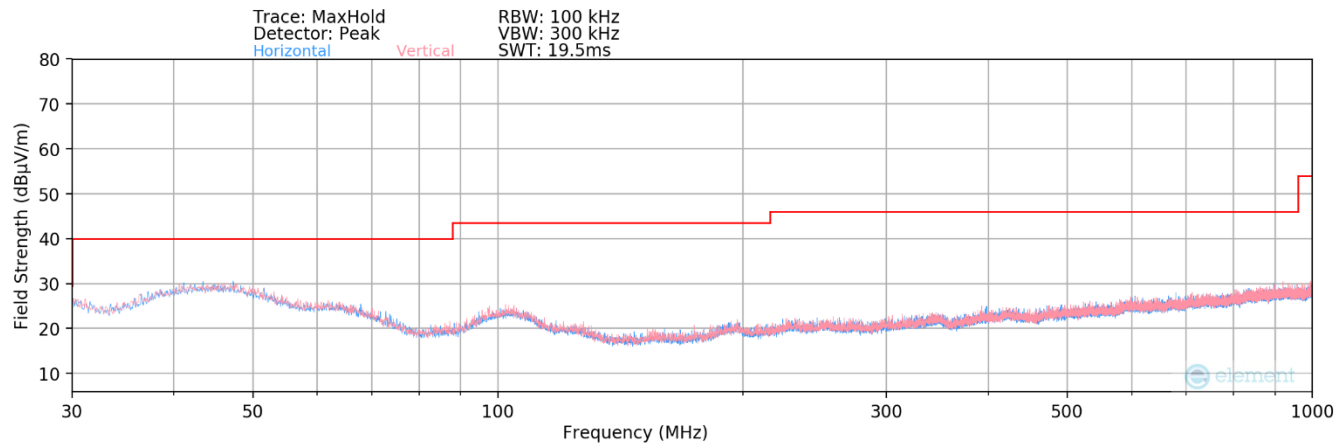
- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

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

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7.6.1 MIMO Radiated Spurious Emission Measurements

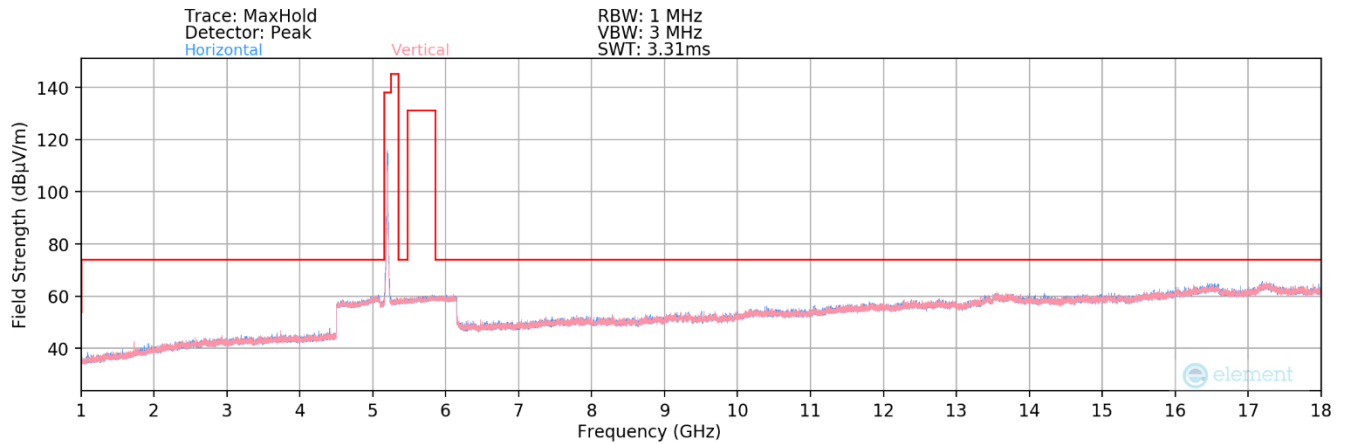


Plot 7-101. Radiated Spurious Plot below 1GHz MIMO (802.11a)

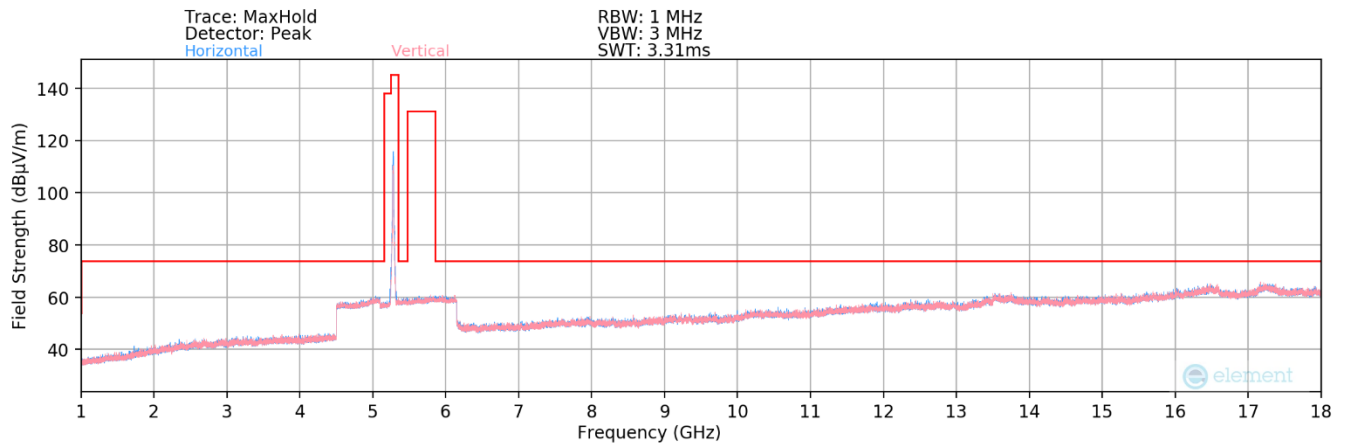
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
680.00	Quasi-Peak	V	-	-	-95.99	28.09	39.10	46.02	-6.92

Table 7-21. Radiated Measurements MIMO <1GHz

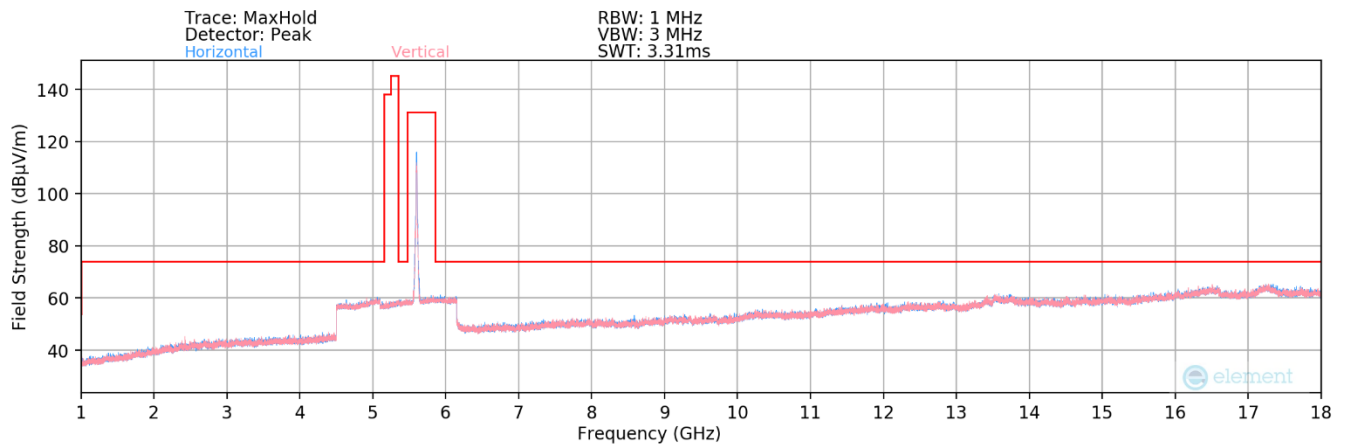
FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet		Page 87 of 117



Plot 7-102. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 1 Ch. 40)



Plot 7-103. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 2A Ch. 56)



Plot 7-104. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 2C Ch. 120)

FCC ID: A3LSMX730 IC: 649E-SMX730	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130049-07.A3L	Test Dates: 6/3 - 7/17/2025	EUT Type: Portable Tablet	Page 88 of 117