



**ELEMENT MATERIALS TECHNOLOGY,
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MEASUREMENT REPORT
FCC PART 15.407 / ISSED RSS-247 802.11ax/be (OFDMA)

Applicant Name:

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

Date of Testing:

2/24/2026 - 4/17/2026

Test Report Issue Date:

5/5/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2602190015-17-R1.A3L

FCC ID:

A3LSMF776U

IC:

649E-SMF776W

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-F776U

HVIN:

SM-F776W

Additional Model(s):

SM-F776U1

EUT Type:

Portable Handset

Frequency Range:

5180 – 5885MHz

Modulation Type:

OFDMA

FCC Equipment Class:

Unlicensed National Information Infrastructure TX (NII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISSED Specifications:

RSS-247 Issue 4

FCC Test Procedure(s):

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

ISSED Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, KDB 648474 D03 v01r04

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

This revised Test Report (S/N:1M2602190015-17-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2602190015-17.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

RJ Ortanez
Executive Vice President



FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	4/23/2026	WKR0000005883
1	Addressed comments made by TCB reviewer	5/5/2026	WKR0000005883

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Channel Bandwidth [MHz]	UNII Band	Tx Frequency [MHz]	MIMO	
			Max. Power [mW]	Max. Power [dBm]
20	1	5180 - 5240	120.58	20.81
	2A	5260 - 5320	121.02	20.83
	2C	5500 - 5720	108.06	20.34
	3	5745 - 5825	119.68	20.78
	4	5845 - 5885	42.74	16.31
40	1	5190 - 5230	117.87	20.71
	2A	5270 - 5310	118.38	20.73
	2C	5510 - 5710	120.93	20.83
	3	5755 - 5795	120.93	20.83
	4	5835 - 5875	42.09	16.24
80	1	5210	56.65	17.53
	2A	5290	116.80	20.67
	2C	5530 - 5690	117.03	20.68
	3	5775	121.16	20.83
	4	5855	42.09	16.24
160	1/2A	5250	77.63	18.90
	2C	5570	113.07	20.53
	3/4	5815	41.87	16.22

EUT Overview

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

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMF776U** and **IC: 649E-SMF776W**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

Test Device Serial No.: 0141M, 9680G, 9721G, 0895M, 0903M, 0898M, 0823M, 1164M, 1167M, 0643M, 0859M, 1158M, 1045M, 1039M

2.2 Device Capabilities

This device contains the following capabilities:

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

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

Table 2-1. 802.11ax/be (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. 802.11ax/be (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. 802.11ax/be (80MHz BW) Frequency / Channel Operations

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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. 802.11ax/be (160MHz BW) Frequency / Channel Operations

Notes:

- 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:

Band	Bandwidth	Tone Type	Tone Size	MIMO (1+2)	
				Duty Cycle [%]	Radiated DCCF [dB]
5GHz	20MHz	RU	26T	99.24	N/A
			52T	99.24	N/A
			106T	98.63	N/A
			242T	96.55	0.15
		MRU	52+26T	95.56	0.20
			106+26T	98.25	N/A
	40MHz	RU	26T	99.23	N/A
			52T	99.32	N/A
			106T	98.78	N/A
			242T	97.46	0.11
		MRU	484T	95.44	0.20
			52+26T	99.12	N/A
			106+26T	98.52	N/A
	80MHz	RU	26T	99.32	N/A
			52T	99.32	N/A
			106T	98.78	N/A
			242T	97.78	0.10
		MRU	484T	96.23	0.17
			996T	95.45	0.20
			52+26T	99.12	N/A
			106+26T	98.53	N/A
	160MHz	RU	484+242T	96.45	0.16
		MRU	26T	99.71	N/A
			52T	99.72	N/A
			106T	99.73	N/A
			242T	96.28	0.16
			484T	95.69	0.19
			996T	98.39	N/A
			2x996T	95.14	0.22
		MRU	52+26T	99.73	N/A
			106+26T	99.71	N/A
			484+242T	96.63	0.15
			996+484T	96.34	0.16
			966+484+242T	99.71	N/A

Table 2-5. Measured Duty Cycles

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

WiFi Configurations		SISO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
5GHz	11ax	✓	✓	✓	✓	✓	✓
	11be	✓	✓	✓	✓	✓	✓

Table 2-6. Frequency / Channel Operations

✓ = Support; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity – 2Tx Function

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

MCS Index	Spatial Stream	OFDMA (802.11ax/be)																							
		26T						52T						106T						242T					
		0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI
0	0	1	0.9	0.8	0.8	1.8	1.7	1.5	3.8	3.5	3.2	8.6	8.1	7.3	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1
1	1	1	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	204.2	183.8
2	2	1	2.6	2.5	2.3	5.3	5	4.5	11.3	10.6	9.6	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8	367.5	351.3
3	3	1	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	490	455
4	4	1	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	735	681.7
5	5	1	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	980	909
6	6	1	7.9	7.5	6.8	15.9	15	13.5	33.8	31.9	28.7	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3	1102.5	1020.8
7	7	1	8.8	8.3	7.5	17.6	16.7	15	37.5	35.4	31.9	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5	1225	1125
8	8	1	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1470	1361.1
9	9	1	11.8	11.1	10	23.5	22.2	20	50	47.2	42.5	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7	1633.3	1512.9
10	10	1	13.2	12.5	11.3	26.5	25	22.5	56.3	53.1	47.8	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8	1838	1717.7
11	11	1	14.7	13.9	12.5	29.4	27.8	25	62.5	59	53.1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8	2041.7	1887.5
12	12	1	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	2205	2041.7
13	13	1	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	2450	2205
0	0	2	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	245	220.5
1	1	2	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	490	455
2	2	2	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	735	681.7
3	3	2	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	980	909
4	4	2	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1470	1361.1
5	5	2	14.1	13.3	12	28.2	26.7	24	60	56.7	51	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980	1960	1817.7
6	6	2	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	2205	2041.7
7	7	2	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	2450	2205
8	8	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	2940	2702.2
9	9	2	23.5	22.2	20	47.1	44.4	40	100	94.4	85	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3	3240	2987.5
10	10	2	26.5	25	22.5	52.9	50	45	112.5	106.3	95.6	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5	3675	3375
11	11	2	29.4	27.8	25	58.8	55.6	50	125	118.1	106.3	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7	4200	3825
12	12	2	31.8	30	27	63.5	60	54	135	127.5	114.8	309.7	292.5	263.3	619.4	585	526.5	1297.1	1225	1102.5	2594.1	2450	2205	4900	4500
13	13	2	35.3	33.3	30	70.6	66.7	60	150	141.7	127.5	344.1	325	292.5	688.2	650	585	1441.2	1361.1	1225	2882.4	2722.2	2450	5600	5100

Table 2-7. Supported Data Rates

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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MCS Index	Spatial Stream	OFDM (802.11be)								
		80MHz 20MHz Puncture			160MHz 40MHz Puncture			160MHz 20MHz Puncture		
		0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI
0	1	25.8	24.4	21.9	53.2	50.3	45.3	61.8	58.4	52.6
1	1	51.6	48.8	43.9	106.5	100.6	90.5	123.7	116.8	105.1
2	1	77.4	73.1	65.8	159.7	150.8	135.8	185.5	175.2	157.7
3	1	103.2	97.5	87.8	212.9	201.1	181	247.4	233.6	210.3
4	1	154.9	146.3	131.6	319.4	301.7	271.5	371	350.4	315.4
5	1	206.5	195	175.5	425.9	402.2	362	494.7	467.2	420.5
6	1	232.3	219.4	197.4	479.1	452.5	407.3	556.5	525.6	473.1
7	1	258.1	243.8	219.4	532.4	502.8	452.5	618.4	584	525.6
8	1	309.7	292.5	263.3	638.8	603.3	543	742.1	700.8	630.8
9	1	344.1	325	292.5	709.8	670.4	603.3	824.5	778.7	700.8
10	1	387.1	365.6	329.1	798.5	754.2	678.8	927.6	876	788.4
11	1	430.1	406.3	365.6	887.3	838	754.2	1030.6	973.4	876
12	1	464.6	438.8	394.9	958.2	905	814.5	1113.1	1051.3	946.1
13	1	516.2	487.5	438.8	1064.7	1005.6	905	1236.8	1168.1	1051.3
0	2	51.6	48.8	43.9	106.5	100.6	90.5	123.7	116.8	105.1
1	2	103.2	97.5	87.8	212.9	201.1	181	247.4	233.6	210.3
2	2	154.9	146.3	131.6	319.4	301.7	271.5	371	350.4	315.4
3	2	206.5	195	175.5	425.9	402.2	362	494.7	467.2	420.5
4	2	309.7	292.5	263.3	638.8	603.3	543	742.1	700.8	630.8
5	2	412.9	390	351	851.8	804.4	724	989.4	934.4	841
6	2	464.6	438.8	394.9	958.2	905	814.5	1113.1	1051.3	946.1
7	2	516.2	487.5	438.8	1064.7	1005.6	905	1236.8	1168.1	1051.3
8	2	619.4	585	526.5	1277.6	1206.7	1086	1484.1	1401.7	1261.5
9	2	688.2	650	585	1419.6	1340.7	1206.7	1649	1557.4	1401.7
10	2	774.3	731.3	658.1	1597.1	1508.3	1357.5	1855.1	1752.1	1576.9
11	2	860.3	812.5	731.3	1774.5	1675.9	1508.3	2061.3	1946.8	1752.1
12	2	929.1	877.5	789.8	1916.5	1810	1629	2226.2	2102.5	1892.3
13	2	1032.4	975	877.5	2129.4	2011.1	1810	2473.5	2336.1	2102.5

Table 2-8. Supported Data Rates - MRU

2.3 Antenna Description

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

Frequency [MHz]	Antenna 1 Gain [dBi]	Antenna 2 Gain [dBi]	Directional Ant. Gain [dBi]
5180 – 5240	-4.54	-6.50	-2.45
5260 – 5320	-4.74	-5.50	-2.10
5500 – 5720	-4.84	-6.50	-2.62
5745 – 5825	-7.50	-7.30	-4.39
5835 – 5885	-7.50	-7.30	-4.39

Table 2-9. Antenna Peak Gain

2.4 Test Configuration

ANSI C63.10:2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See the 5GHz OFDM Test Report 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.

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

This device supports three folder configurations: one is with folder fully open, one is where the folder is half open (90 degrees), and one is with folder closed. All configurations are tested, and the worst-case radiated emissions data is shown in this report.

2.5 Software and Firmware

The test was conducted with software/firmware version F776USQU0AZC2 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 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.

3.3 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: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	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). Measurement antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	MD 1M 40	EMC Cable and Switch System	2/3/2026	Annual	2/3/2027	MD 1M 40
-	AP2-001	EMC Cable and Switch System	1/30/2026	Annual	1/30/2027	AP2-001
-	AP2-002	EMC Cable and Switch System	1/30/2026	Annual	1/30/2027	AP2-002
-	ETS-001	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-001
-	ETS-002	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-002
-	WL25-1	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-2
-	WL40-1	Conducted Cable Set (40GHz)	1/30/2026	Annual	1/30/2027	WL40-1
-	WL40-2	Conducted Cable Set (40GHz)	1/30/2026	Annual	1/30/2027	WL40-2
Anritsu	MA24408A	POWER SENSOR	1/27/2026	Annual	1/27/2027	11676
Anritsu	MA24408A	POWER SENSOR	3/4/2026	Annual	3/4/2027	11675
Anritsu	MA24408A	POWER SENSOR	1/27/2026	Annual	1/27/2027	12798
Anritsu	MA24408A	POWER SENSOR	3/4/2026	Annual	3/4/2027	12776
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
Keysight Technologies	N9030A	PXA Signal Analyzer	11/3/2025	Annual	11/3/2026	MY54490576
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	1/16/2026	Annual	1/16/2027	100348
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/11/2026	Annual	3/11/2027	101716
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Sunol	JB5	Bi-Log Antenna (30M - 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.

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Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable TM40-K1K1-30	20233002 004
Uniflex Micro Coax UFB 142A-Q-0984-200200	64639 232063 001
R&S TS-PR1840	9037.7670.02

Table 6-2. MD 1M 18-40 EMC Cable and Switch System Components

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

Table 6-3. AP2-001 EMC Cable and Switch System Components

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

Table 6-4. AP2-002 EMC Cable and Switch System Components

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

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

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

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

Component	Serial Number
MegaPhase Cable, Model: TM26-S1S1-30	20929201 004
Pasternack 6dB Attenuator, Model: PE7005-6	N/A

Table 6-7. WL25-1 Conducted Cable Set Components

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Component	Serial Number
Mini-Circuits Cable, Model: CBL-2FT-SMSM+	77743
MCL 6dB Attenuator, Model: BW-S6W2+	1314

Table 6-8. WL25-2 Conducted Cable Set Components

Component	Serial Number
MegaPhase Cable, Model: TM40-K1K1-36	18160102 001
MCL 10dB Attenuator, Model: BW-K10 2W44+	1902

Table 6-9. WL40-1 Conducted Cable Set Components

Component	Serial Number
MegaPhase Cable, Model: TM40-K1K1-30	18165902 001
MCL 10dB Attenuator, Model: BW-K10 2W44+	2108

Table 6-10. WL40-2 Conducted Cable Set Components

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMF776U
 IC: 649E-SMF776W
 FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
N/A	RSS-Gen [6.6]	26dB Bandwidth	N/A	CONDUCTED	PASS	Section 7.2
15.407(e)	RSS-247 [7.3.4.2]	6dB Bandwidth	>500kHz (5725-5850MHz and 5850 – 5895MHz)		PASS	Section 7.3
15.407 (a)(1)(iv), (a)(2), (a)(3)	RSS-247 [7.3]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.4
15.407(a)(3) (iii)	RSS-247 [7.3]	Maximum e.i.r.p. (UNII-4, 5.85 – 5.895GHz)	< 30dBm		PASS	Section 7.4
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)/(iii)	RSS-247 [7.3]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.5
15.407(h)	RSS-247 [7.3.6]	Dynamic Frequency Selection	See DFS Test Report		PASS	See DFS Test Report
15.407(b)(1) – (b)(5)	RSS-247 [7.3]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [6.2])	RADIATED	PASS	Section 7.6
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, 7.7

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst-case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “EMC Software Tool,” Version 2.3.0.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “Chamber Automation,” Version 1.7.1.

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- 6) 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
- 7) Only one RU index could be selected at a time, so no contiguous or non-contiguous RUs were considered for testing.
- 8) Worst-case emissions observed during operation with the WCP are tested and reported in the OFDM test report.

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7.2 26dB Bandwidth Measurement

Test Overview and Limit

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

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

Test Procedure Used

ANSI C63.10:2020 – Section 12.5

Test Settings

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

Test Setup

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



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

The 26dB Bandwidth measurement for each channel was measured with the RU index showing the highest conducted power.

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MIMO 26dB Bandwidth Measurements

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 1	5180	be (20MHz)	36	18.91	18.58	17.27	17.20
	5200	be (20MHz)	40	18.89	18.65	17.17	17.19
	5240	be (20MHz)	48	18.71	18.30	17.10	17.16
	5190	be (40MHz)	38	24.42	24.46	21.61	21.97
	5230	be (40MHz)	46	24.86	24.39	21.83	21.67
	5210	be (80MHz)	42	32.25	38.05	25.33	30.04
Band 1/2A	5250	be (160MHz)	50	33.61	35.16	31.16	32.60
Band 2A	5260	be (20MHz)	52	18.46	18.45	17.17	17.07
	5280	be (20MHz)	56	18.69	18.59	17.05	17.10
	5320	be (20MHz)	64	18.62	18.28	17.22	17.15
	5270	be (40MHz)	54	25.38	24.32	21.80	21.80
	5310	be (40MHz)	62	24.59	24.68	21.83	21.40
	5290	be (80MHz)	58	34.98	36.14	27.69	30.10
Band 2C	5500	be (20MHz)	100	18.83	18.50	17.23	17.17
	5600	be (20MHz)	120	18.62	18.34	17.24	17.01
	5720	be (20MHz)	144	18.91	18.38	17.23	17.10
	5510	be (40MHz)	102	25.31	23.94	22.24	21.40
	5590	be (40MHz)	118	24.00	24.21	21.64	21.81
	5710	be (40MHz)	142	24.32	25.06	21.68	21.73
	5530	be (80MHz)	106	33.51	37.11	27.23	28.34
	5610	be (80MHz)	122	33.89	37.83	26.73	29.96
	5690	be (80MHz)	138	33.75	38.00	27.34	26.88
	5570	be (160MHz)	114	34.91	34.91	31.32	31.72

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

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 21 of 172

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 1	5180	be (20MHz)	36	22.62	22.26	19.39	19.19
	5200	be (20MHz)	40	22.73	22.39	19.36	19.30
	5240	be (20MHz)	48	22.67	22.56	19.38	19.24
	5190	be (40MHz)	38	44.84	45.14	38.39	38.37
	5230	be (40MHz)	46	44.70	44.98	38.39	38.42
	5210	be (80MHz)	42	92.78	90.14	78.60	78.09
Band 1/2A	5250	be (160MHz)	50	313.73	176.60	158.23	157.41
Band 2A	5260	be (20MHz)	52	22.79	22.47	19.34	19.21
	5280	be (20MHz)	56	22.74	22.38	19.36	19.20
	5320	be (20MHz)	64	22.58	22.33	19.31	19.19
	5270	be (40MHz)	54	44.44	45.17	38.32	38.39
	5310	be (40MHz)	62	45.15	45.08	38.39	38.36
	5290	be (80MHz)	58	91.83	90.44	78.28	78.10
Band 2C	5500	be (20MHz)	100	22.93	22.19	19.44	19.20
	5600	be (20MHz)	120	22.53	22.48	19.44	19.29
	5720	be (20MHz)	144	27.93	22.06	19.46	19.18
	5510	be (40MHz)	102	45.13	44.94	38.36	38.41
	5590	be (40MHz)	118	44.62	44.83	38.36	38.35
	5710	be (40MHz)	142	45.28	45.13	38.43	38.33
	5530	be (80MHz)	106	101.09	89.56	78.73	78.12
	5610	be (80MHz)	122	102.86	89.33	78.95	78.10
	5690	be (80MHz)	138	104.12	89.95	78.71	78.18
	5570	be (160MHz)	114	361.24	292.89	161.22	157.66

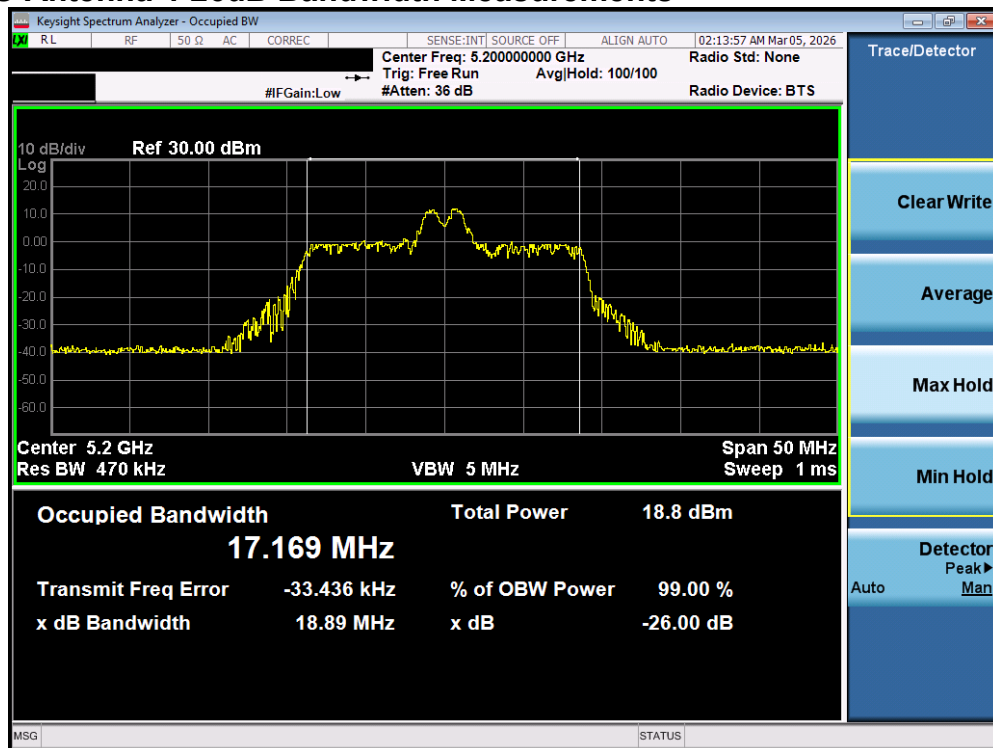
Table 7-3. Bands 1, 2A, 2C Conducted 26dB Bandwidth Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel	MRU Configuration	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 1	5200	be (20MHz)	40	52+26T	19.82	19.30	17.45	17.24
	5200	be (20MHz)	40	106+26T	20.97	21.25	18.34	18.43
	5210	be (80MHz)	42	484+242T	91.96	90.17	78.70	78.75
Band 1/2A	5250	be (160MHz)	50	996+484T	175.57	173.74	158.29	158.26
Band 2A	5280	be (20MHz)	56	52+26T	20.00	19.27	17.33	17.22
	5280	be (20MHz)	56	106+26T	20.56	21.28	18.36	18.42
	5290	be (80MHz)	58	484+242T	92.17	90.75	78.74	78.47
Band 2C	5600	be (20MHz)	120	52+26T	20.01	19.23	17.26	17.27
	5600	be (20MHz)	120	106+26T	20.83	21.18	18.33	18.37
	5610	be (80MHz)	122	484+242T	90.00	90.46	78.76	78.59
	5570	be (160MHz)	114	996+484T	183.43	180.60	158.72	158.66

Table 7-4. Bands 1, 2A, 2C Conducted 26dB Bandwidth Measurements MIMO (MRU)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)		Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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7.2.1 MIMO Antenna-1 26dB Bandwidth Measurements

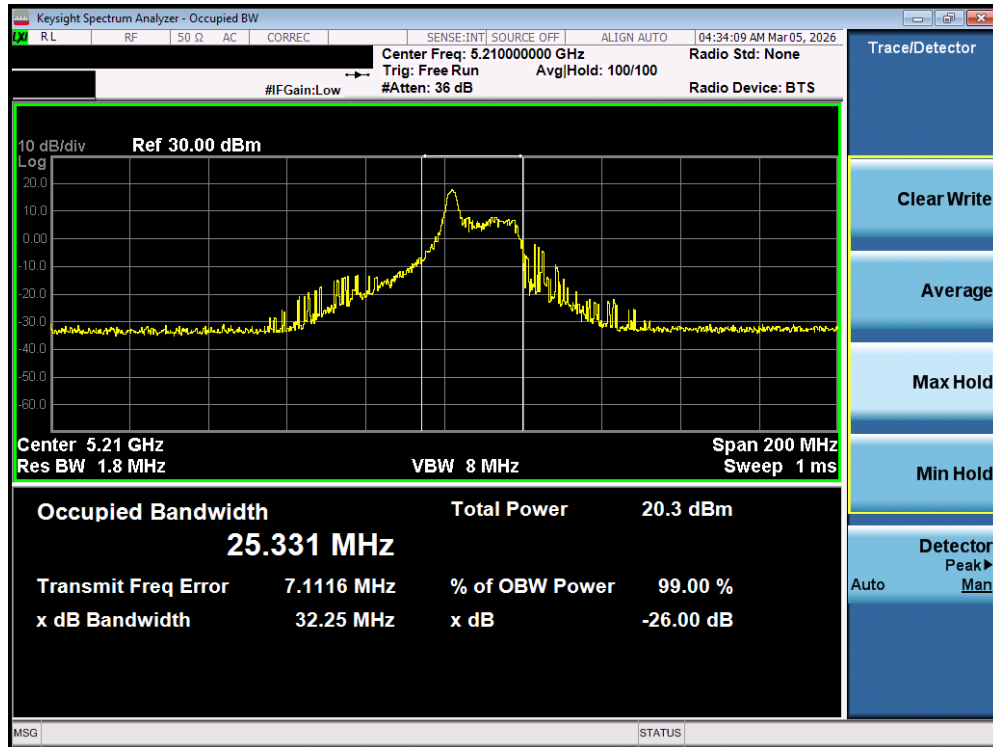


Plot 7-1. 26dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 40)

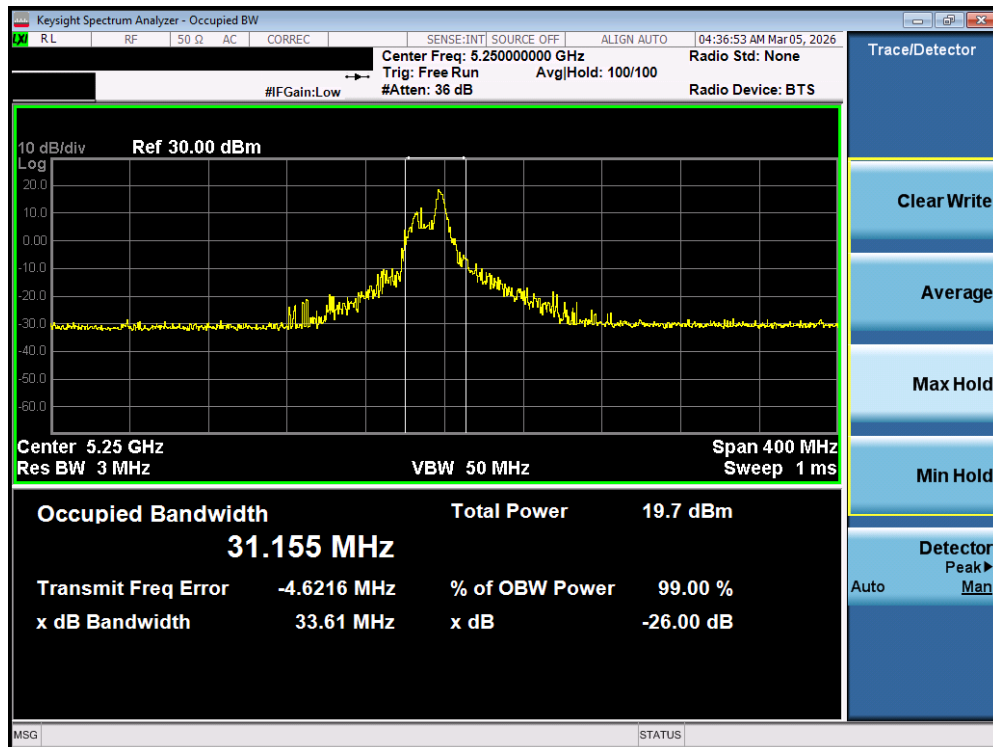


Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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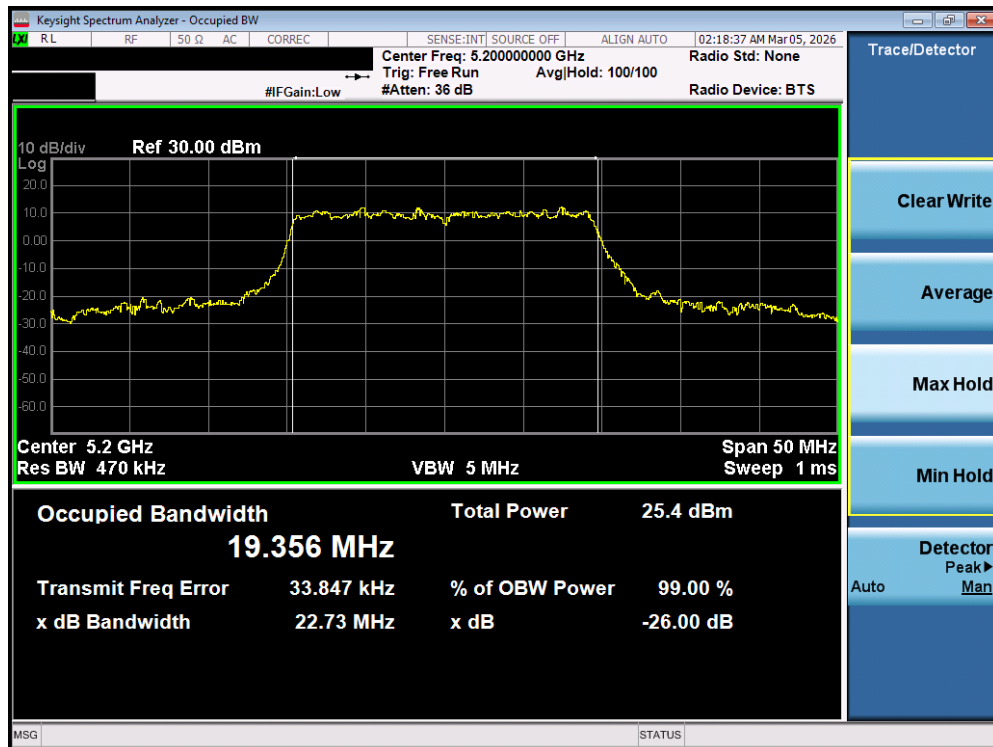


Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 42)

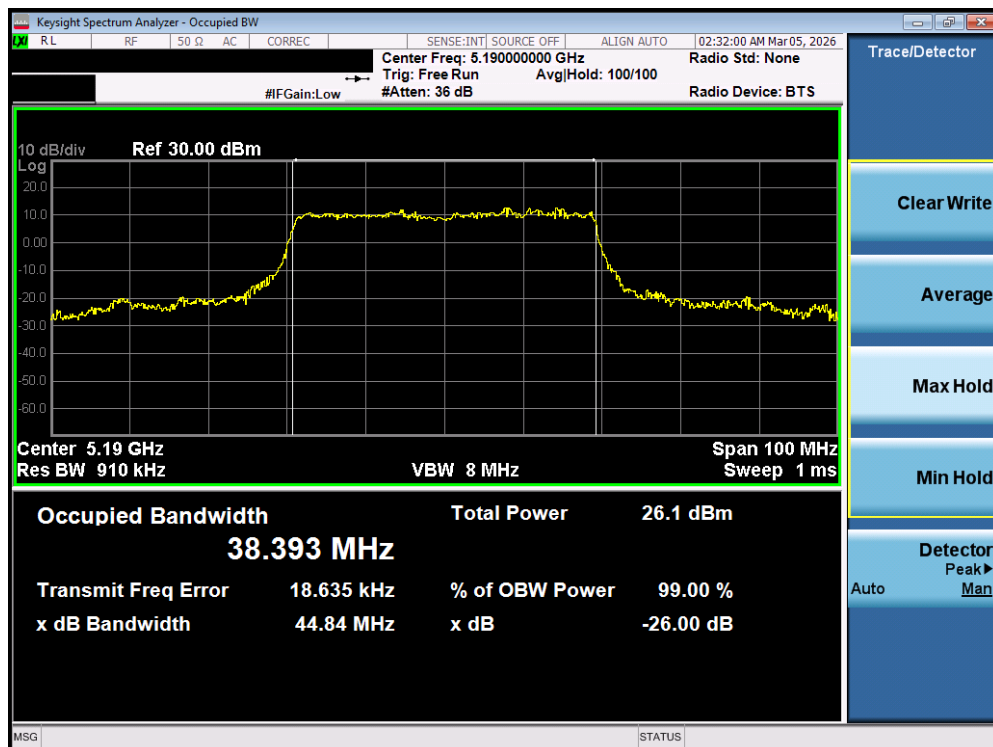


Plot 7-4. 26dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11be – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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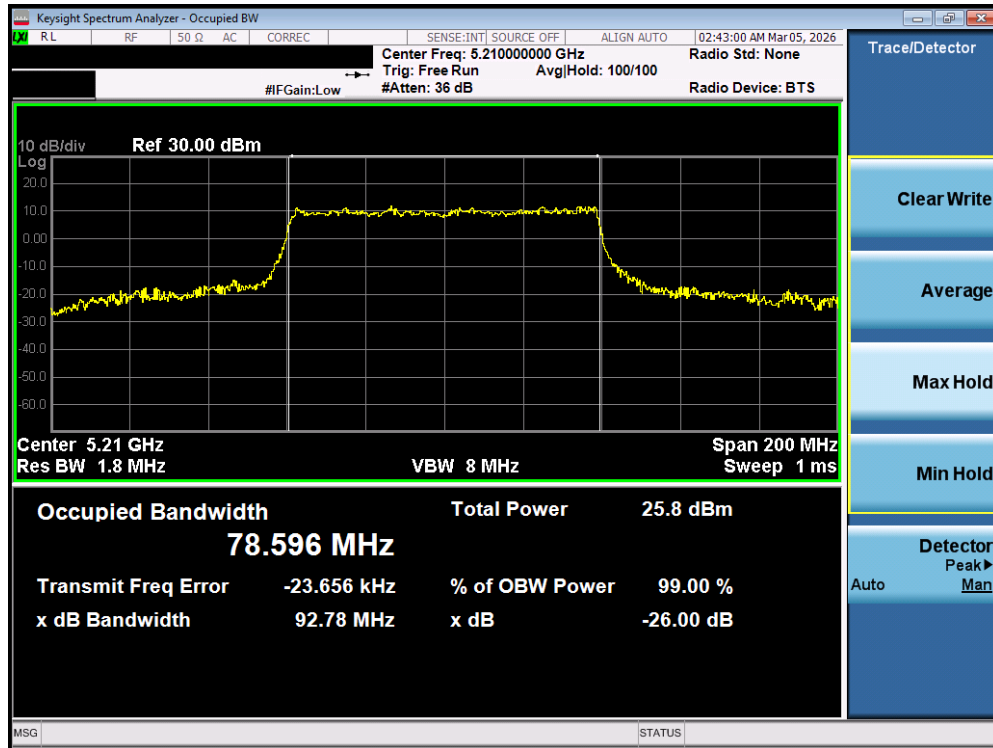


Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 242 Tones (UNII Band 1) – Ch. 40)

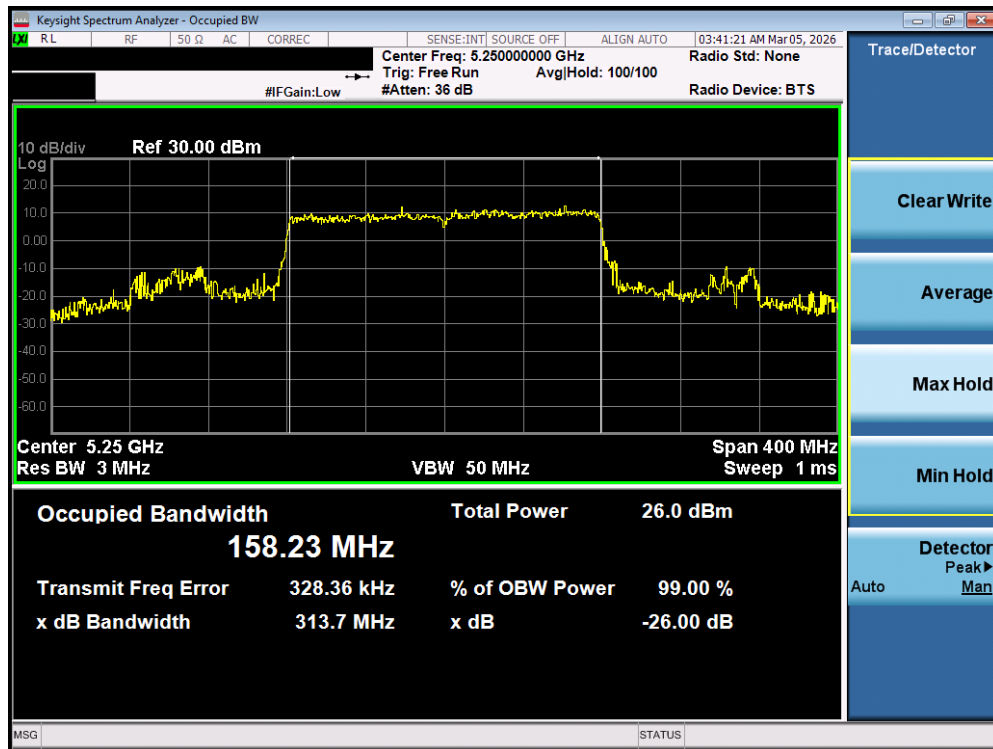


Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11be – 484 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 25 of 172



Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 996 Tones (UNII Band 1) – Ch. 42)

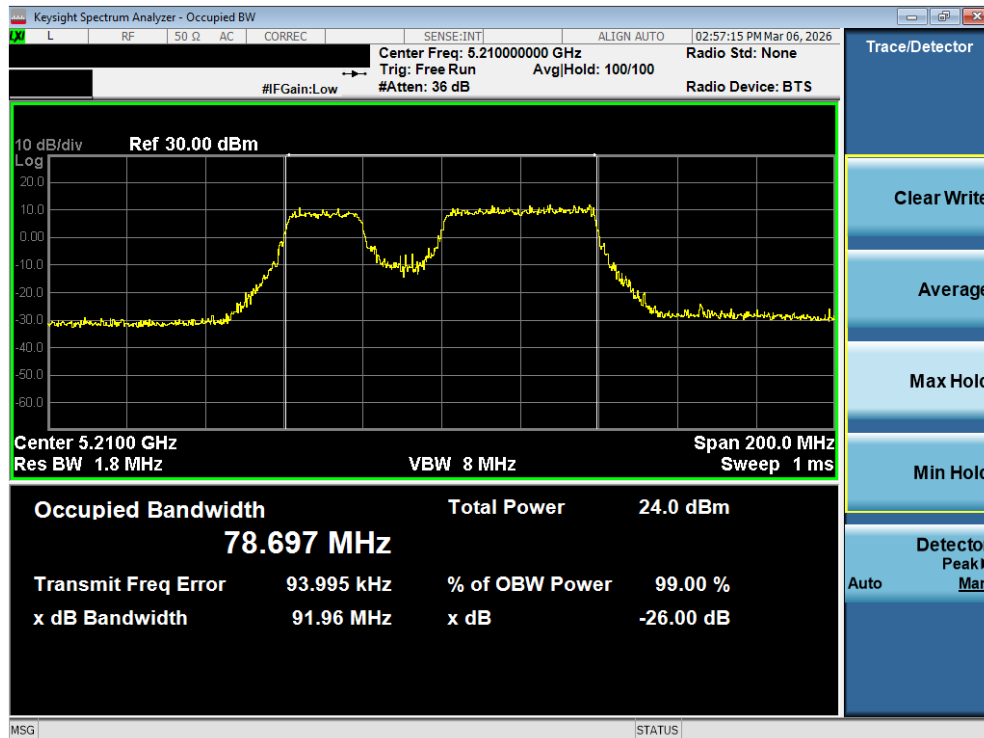


Plot 7-8. 26dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11be – 2x996 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 26 of 172

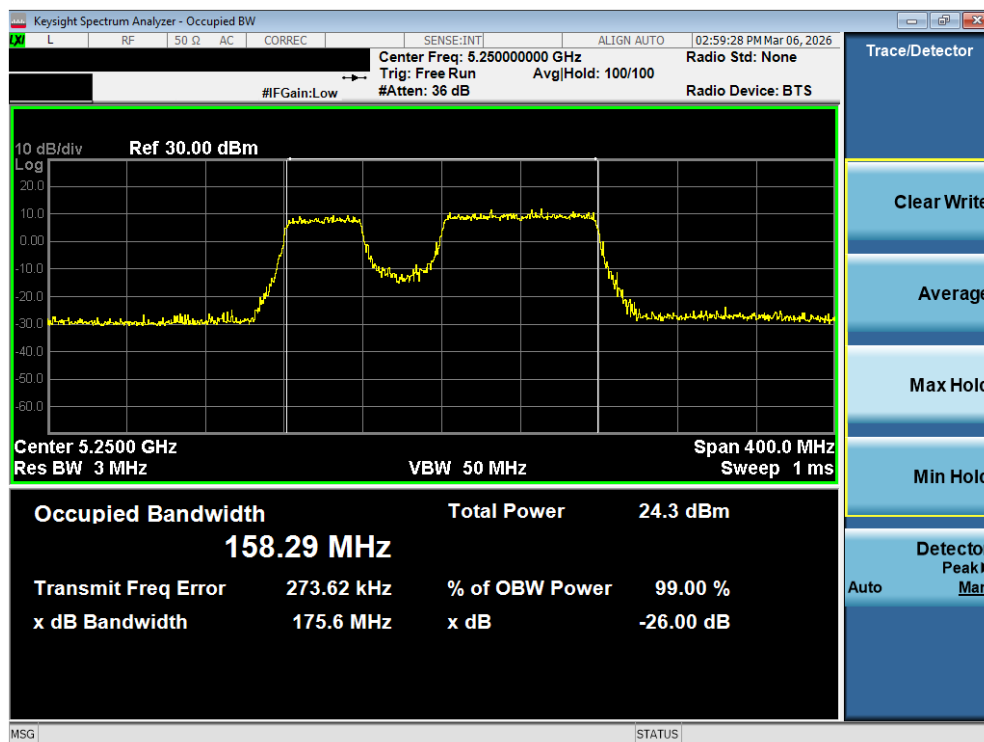


Plot 7-9. 26dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 106+26 Tones (UNII Band 1) – Ch. 40)



Plot 7-10. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 484+242 Tones (UNII Band 1) – Ch. 42)

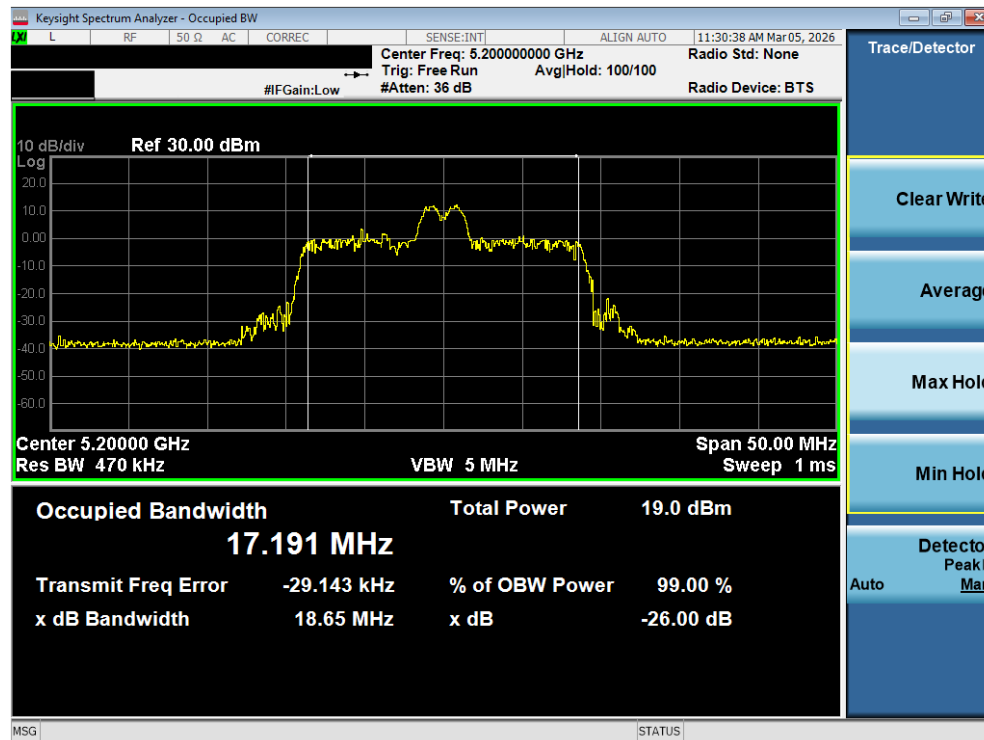
FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 27 of 172		



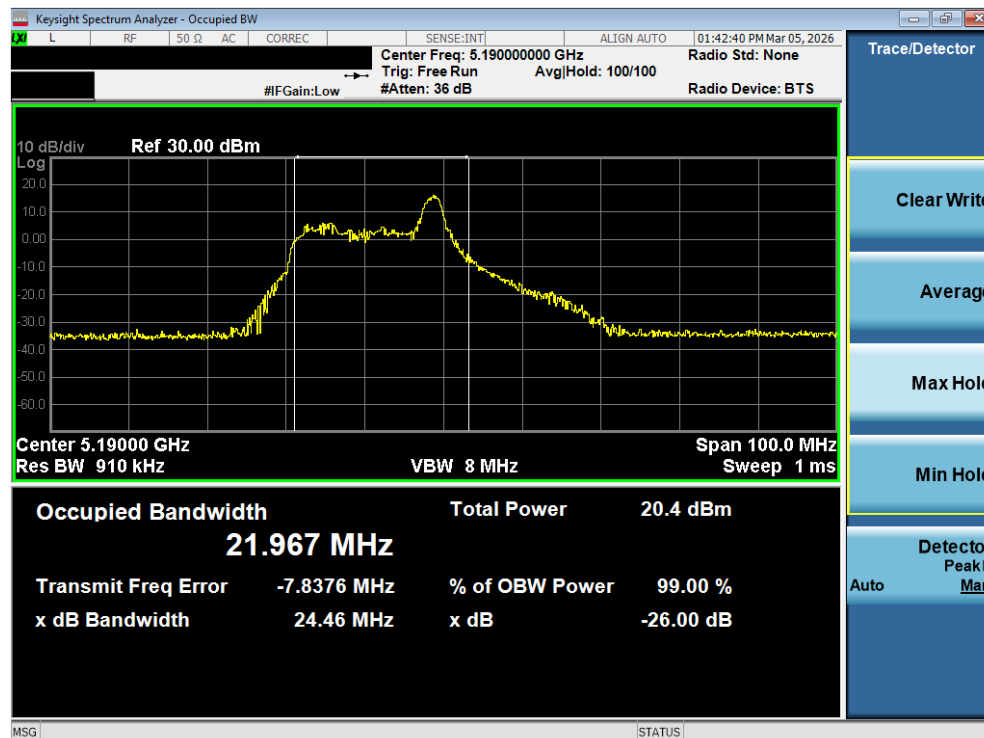
Plot 7-11. 26dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11be – 996+484 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 28 of 172

7.2.2 MIMO Antenna-2 26dB Bandwidth Measurements

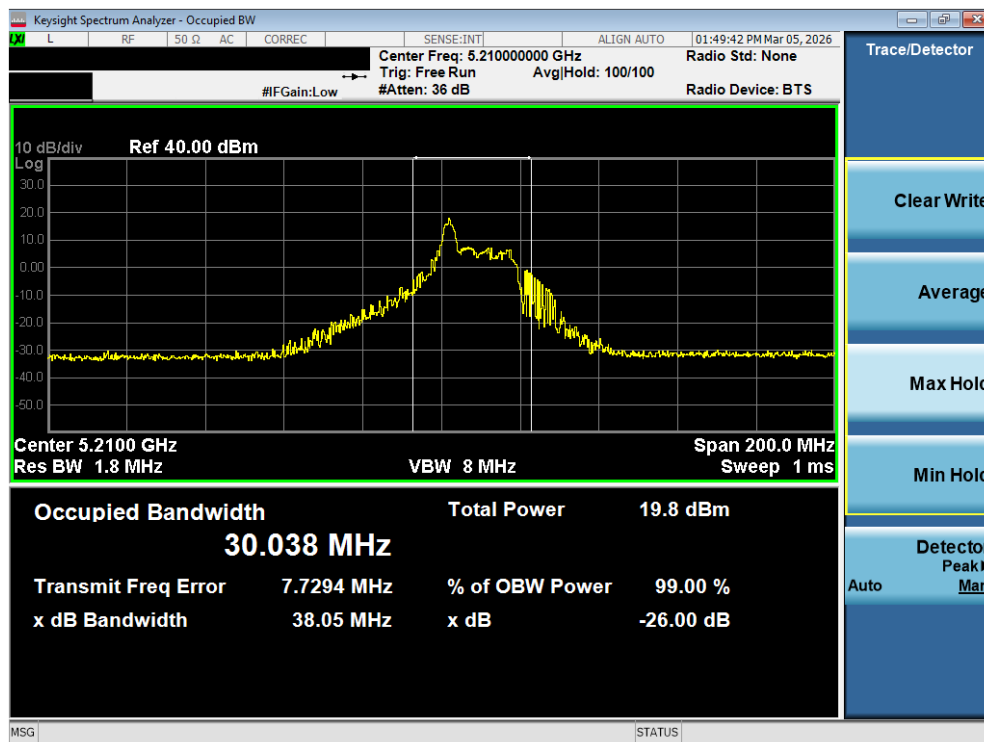


Plot 7-12. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 40)

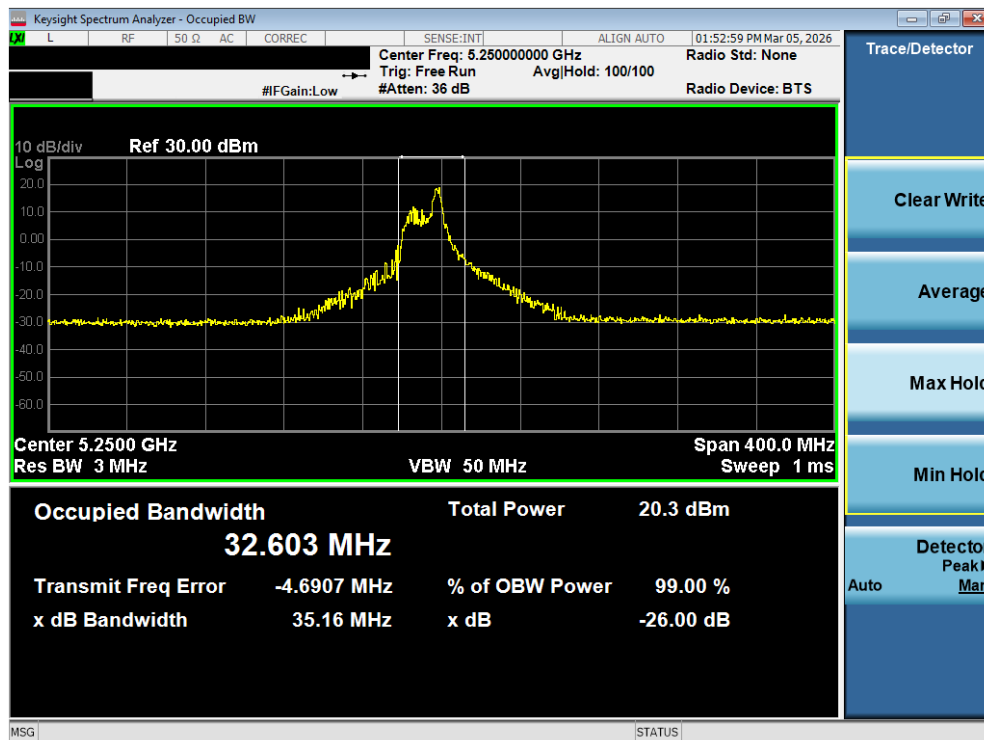


Plot 7-13. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 29 of 172

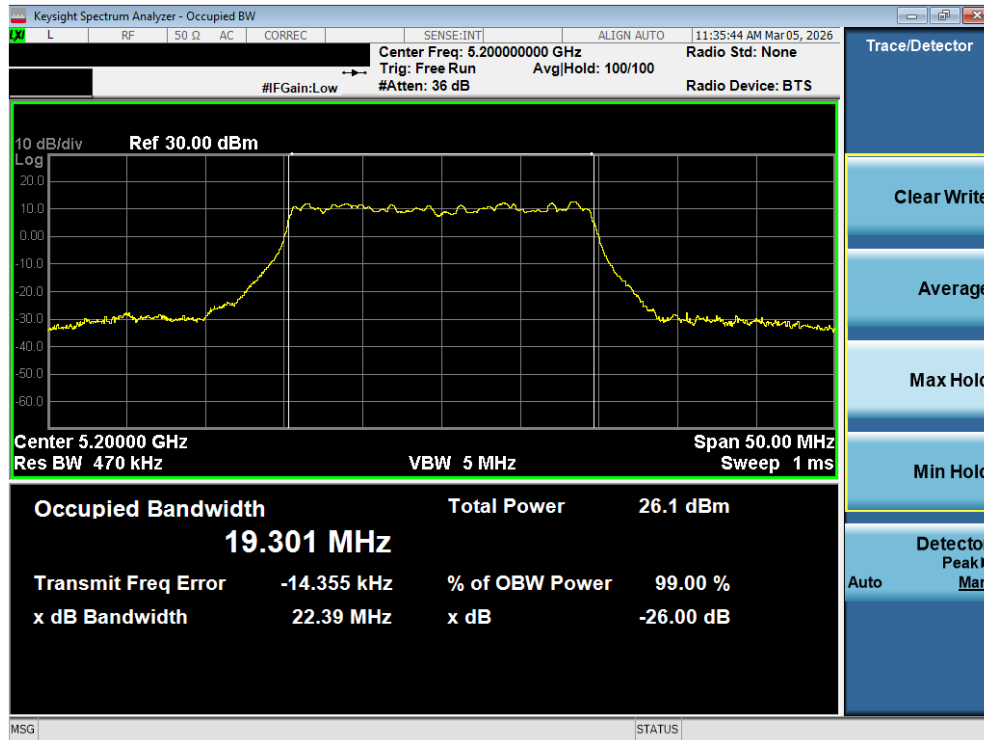


Plot 7-14. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 42)

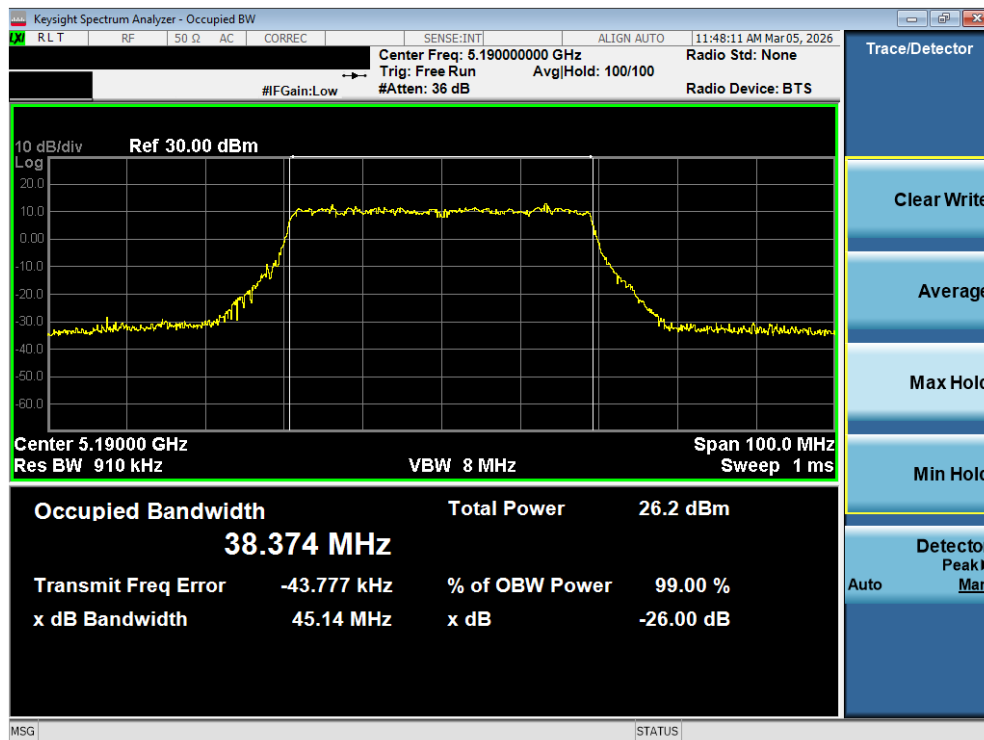


Plot 7-15. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11be – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 30 of 172

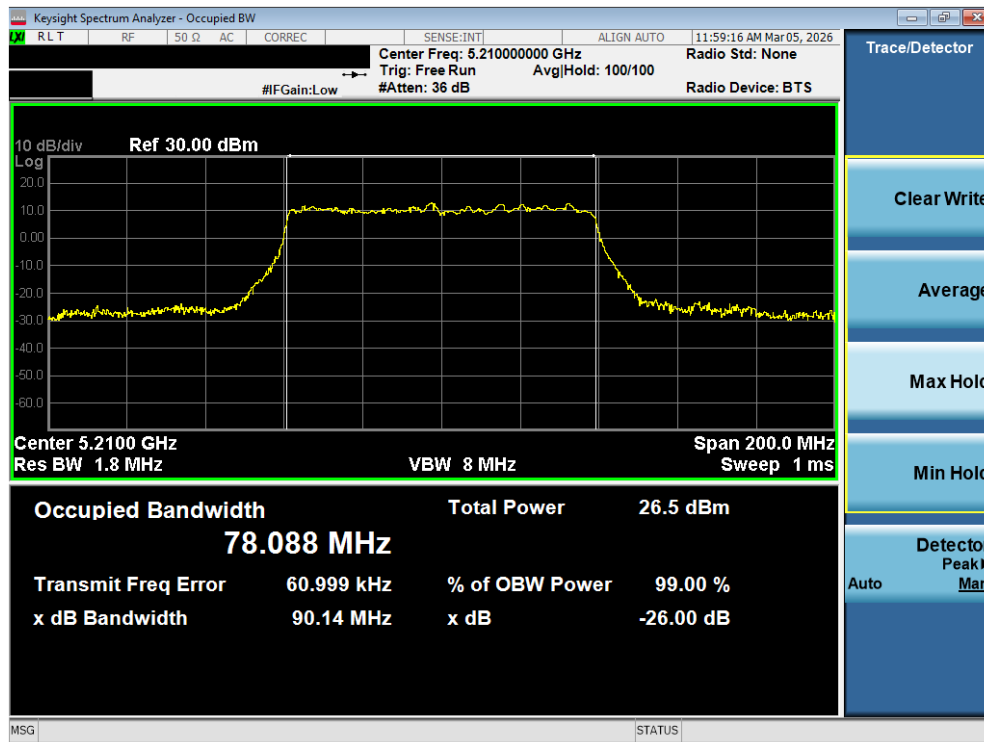


Plot 7-16. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 242 Tones (UNII Band 1) – Ch. 40)

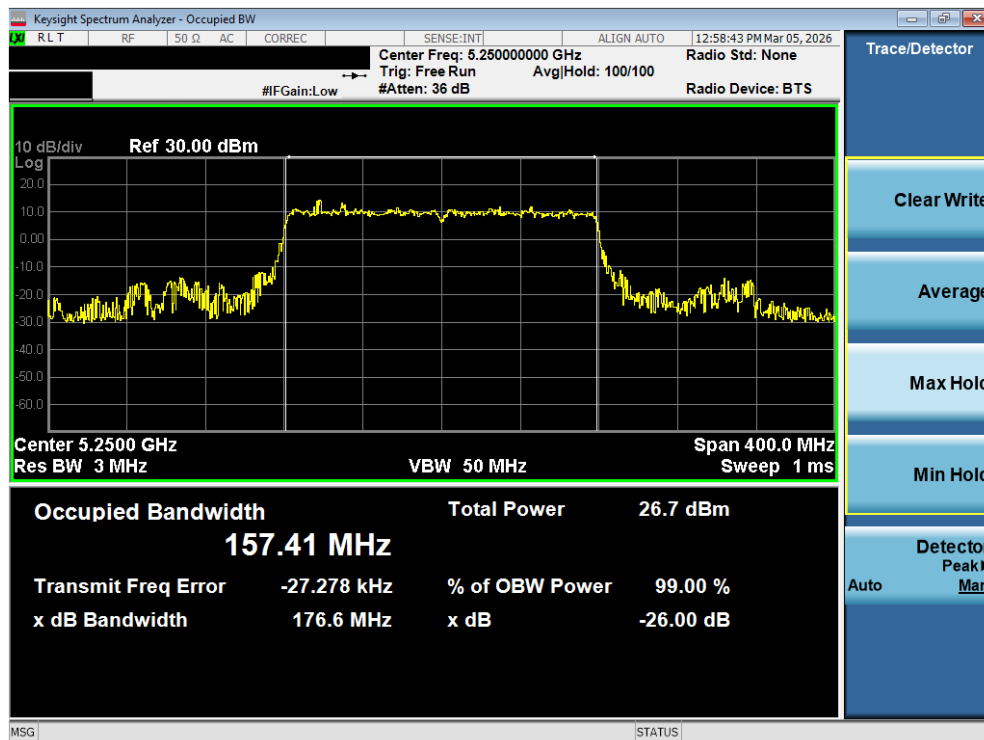


Plot 7-17. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be – 484 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 31 of 172

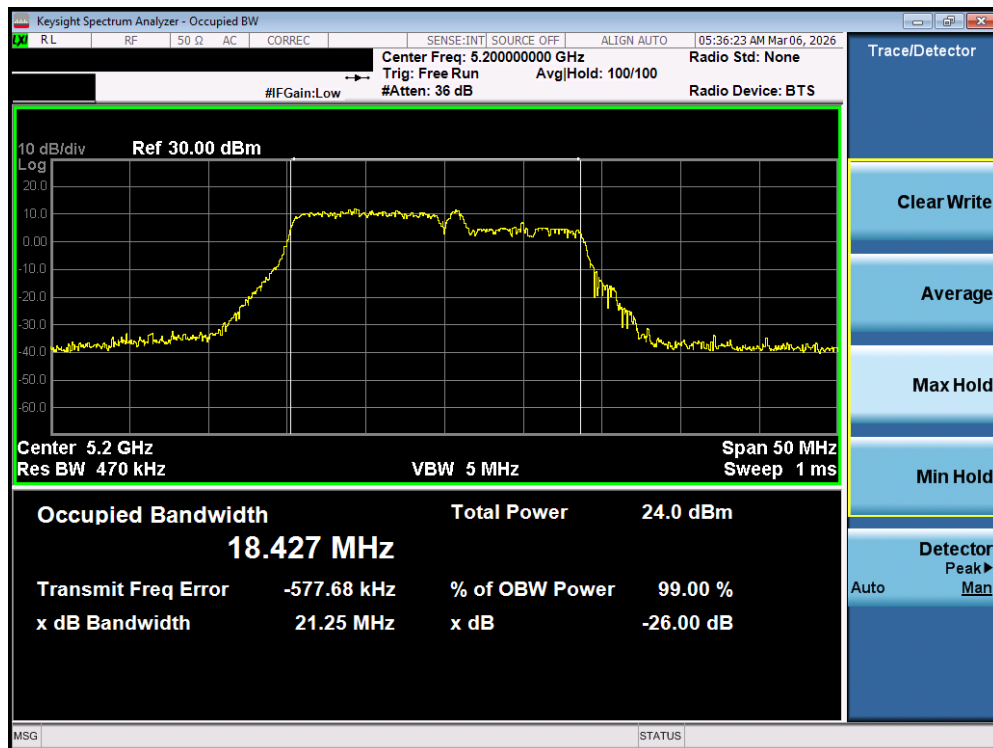


Plot 7-18. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 996 Tones (UNII Band 1) – Ch. 42)

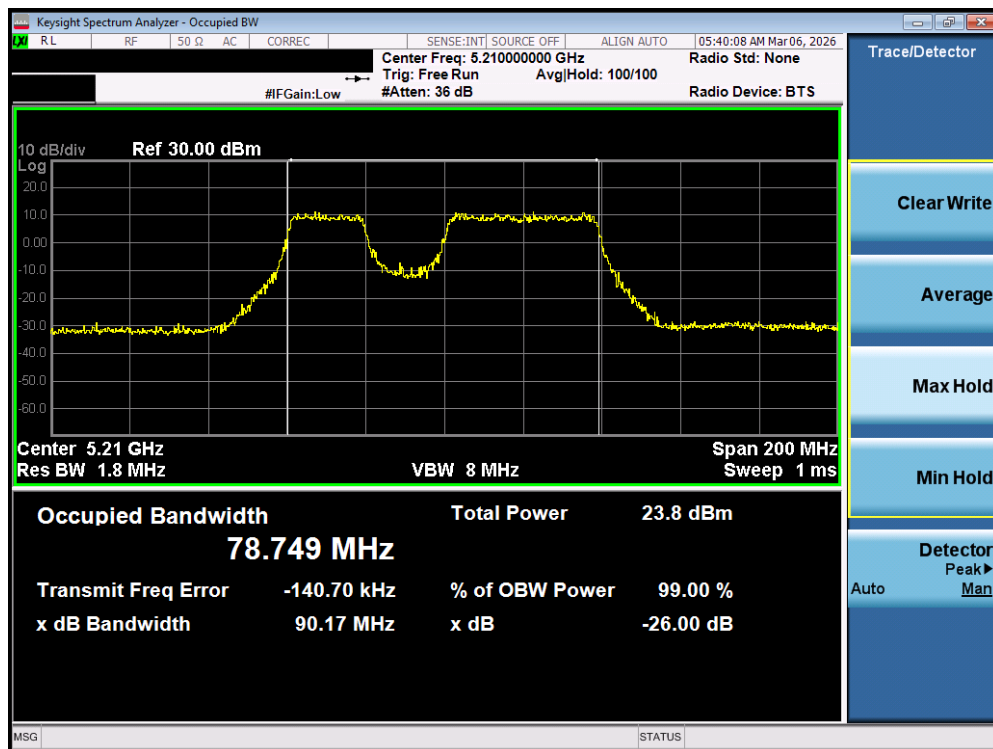


Plot 7-19. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11be – 2x996 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 32 of 172

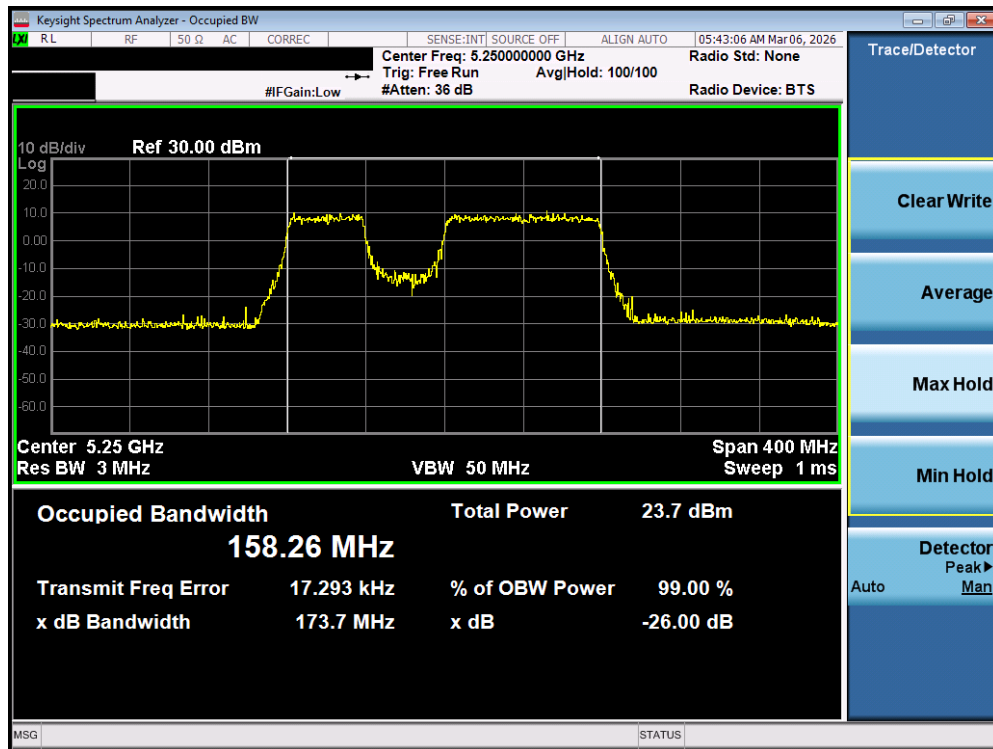


Plot 7-20. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 106+26 Tones (UNII Band 1) – Ch. 40)



Plot 7-21. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 484+242 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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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 and 5.850-5.895GHz bands, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10:2020 – Section 6.9.2

Test Settings – 6dB Bandwidth

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 Settings – OBW

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

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 35 of 172		

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

The 6dB Bandwidth measurement for each channel was measured with the RU index showing the highest conducted power.

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 36 of 172		

MIMO 6dB Bandwidth Measurements

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3	5745	be (20MHz)	149	2.74	2.68	17.11	17.21
	5785	be (20MHz)	157	2.73	2.68	17.25	17.20
	5825	be (20MHz)	165	2.71	2.70	17.14	16.89
	5755	be (40MHz)	151	2.16	2.19	21.61	21.54
	5795	be (40MHz)	159	2.15	2.26	21.51	21.78
	5775	be (80MHz)	155	2.28	2.26	25.24	31.34

Table 7-5. Band 3 Conducted 6dB Bandwidth Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3/4	5845	be (20MHz)	169	2.75	2.70	17.22	17.22
Band 4	5865	be (20MHz)	173	2.73	2.69	17.22	16.68
	5885	be (20MHz)	177	2.71	2.69	17.10	17.14
Band 3/4	5835	be (40MHz)	167	2.20	2.17	21.85	21.57
Band 4	5875	be (40MHz)	175	2.16	2.32	21.97	21.61
Band 3/4	5855	be (80MHz)	171	2.29	2.24	26.74	29.87
Band 4	5815	be (160MHz)	163	2.56	2.66	32.37	33.02

Table 7-6. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3	5745	be (20MHz)	149	19.03	18.98	19.37	19.25
	5785	be (20MHz)	157	19.04	19.00	19.36	19.19
	5825	be (20MHz)	165	19.04	19.02	19.33	19.29
	5755	be (40MHz)	151	38.10	38.01	38.48	38.38
	5795	be (40MHz)	159	38.18	38.02	38.52	38.36
	5775	be (80MHz)	155	78.06	78.02	78.58	78.09

Table 7-7. Band 3 Conducted 6dB Bandwidth Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3/4	5845	be (20MHz)	169	19.05	19.01	19.33	19.30
Band 4	5865	be (20MHz)	173	19.04	19.02	19.33	19.21
	5885	be (20MHz)	177	19.03	19.00	19.31	19.17
Band 3/4	5835	be (40MHz)	167	38.21	38.01	38.47	38.37
Band 4	5875	be (40MHz)	175	38.31	38.02	38.40	38.45
Band 3/4	5855	be (80MHz)	171	78.13	77.96	78.53	78.10
	5815	be (160MHz)	163	158.25	158.27	161.80	158.41

Table 7-8. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO (Full Tones)

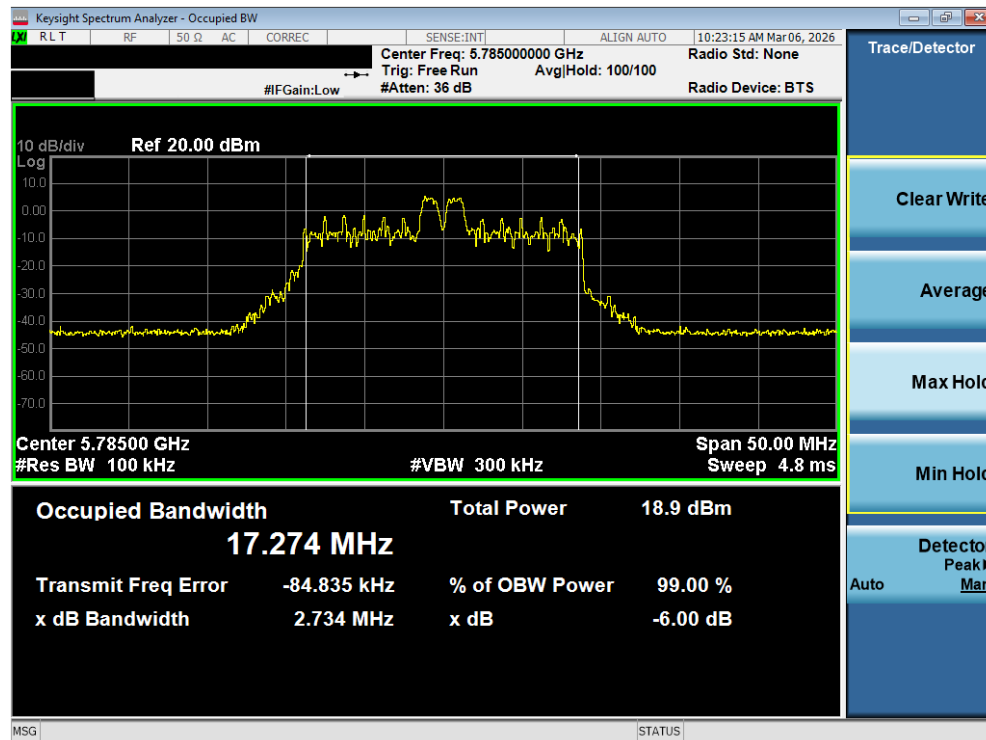
FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)		Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 37 of 172		

	Frequency [MHz]	802.11 MODE	Channel	MRU Configuration	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3	5785	be (20MHz)	157	52+26T	15.09	15.13	17.24	17.39
	5785	be (20MHz)	157	106+26T	17.40	17.42	18.33	18.19
	5775	be (80MHz)	155	484+242T	78.29	78.24	78.64	77.73
Band 4	5865	be (20MHz)	173	52+26T	15.09	15.16	17.39	17.22
	5865	be (20MHz)	173	106+26T	18.35	18.35	18.32	18.19
Band 3/4	5855	be (80MHz)	171	484+242T	78.24	78.32	79.03	77.77
	5815	be (160MHz)	163	996+484T	158.35	158.71	158.50	157.48

Table 7-9. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO (MRU)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 38 of 172

7.3.1 MIMO Antenna-1 6dB Bandwidth Measurements

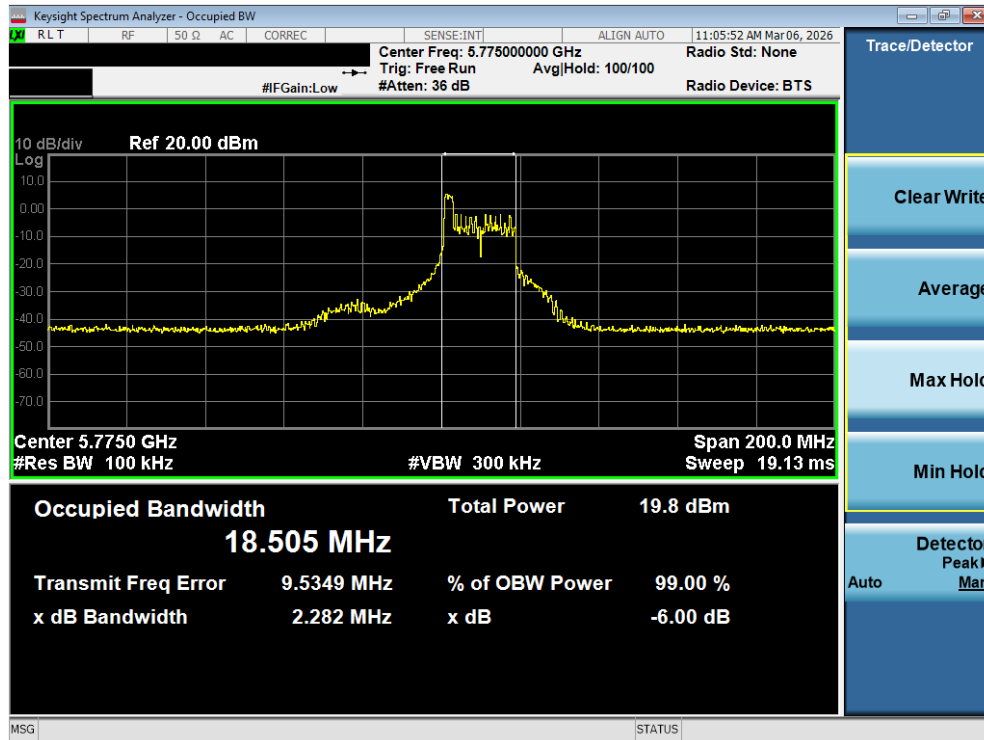


Plot 7-23. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 157)

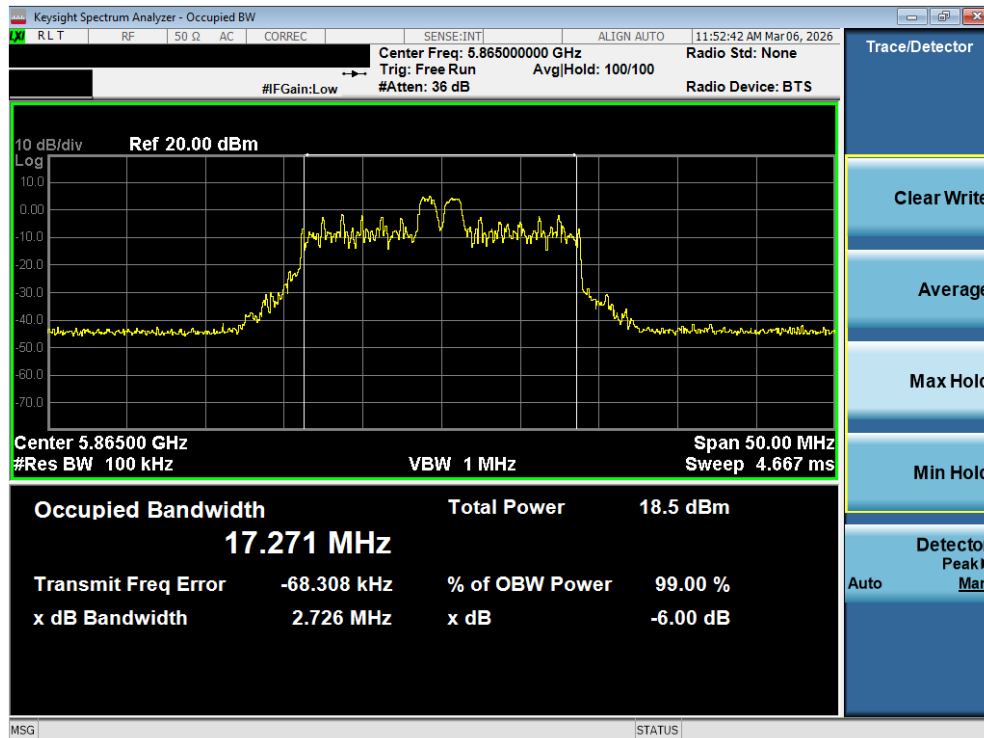


Plot 7-24. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 39 of 172		

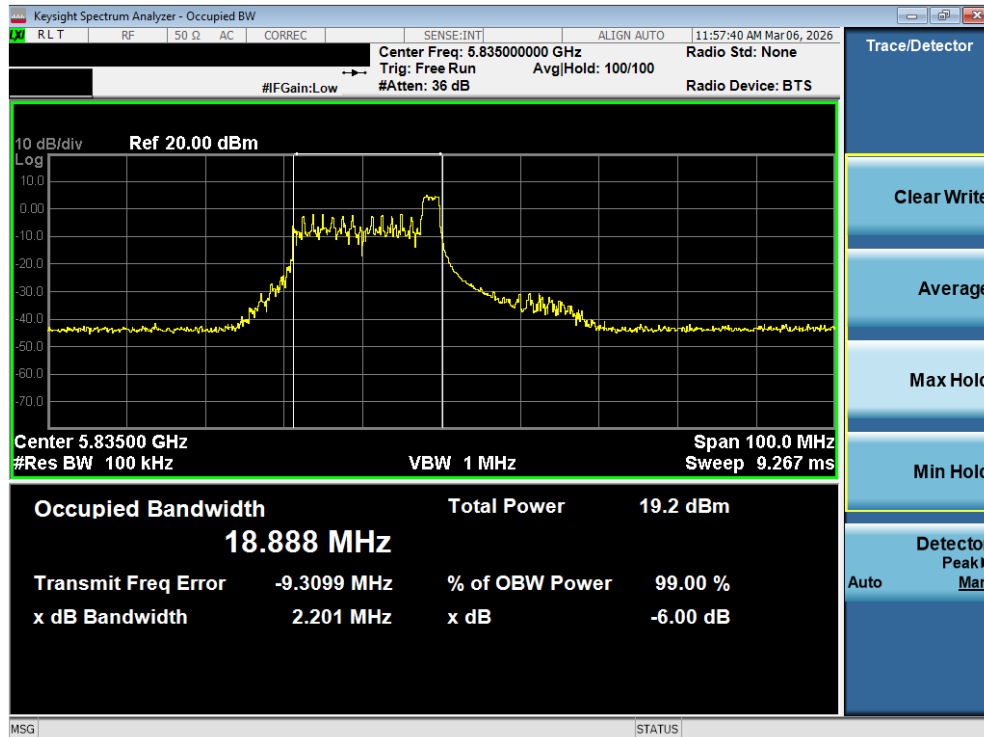


Plot 7-25. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 155)

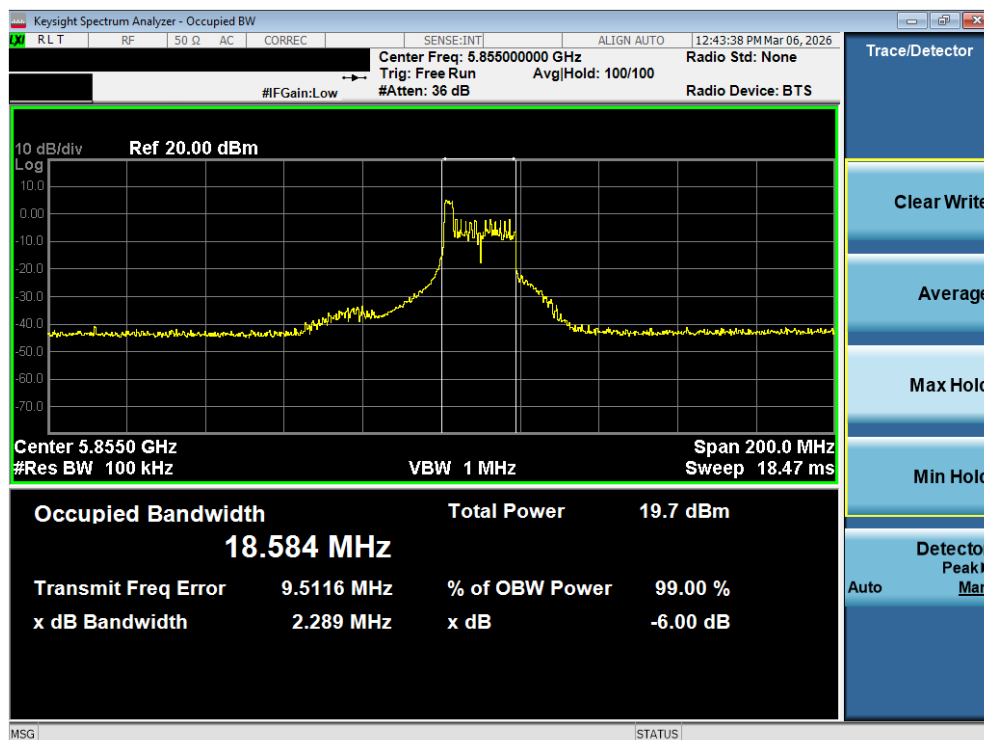


Plot 7-26. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 4) – Ch. 173)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 40 of 172

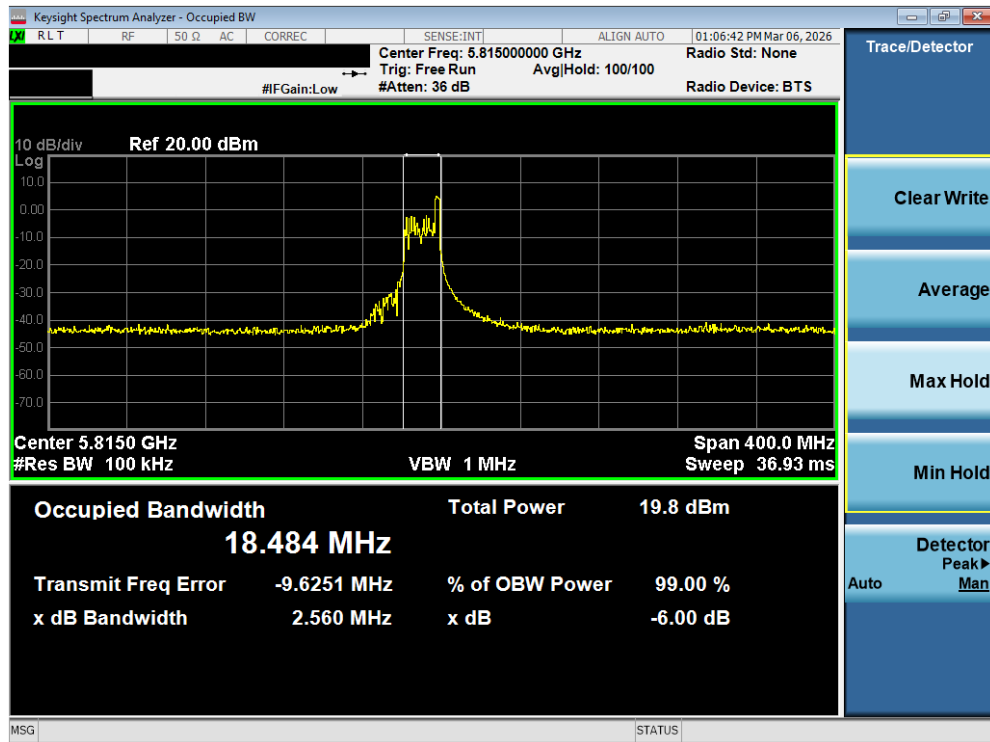


Plot 7-27. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 167)

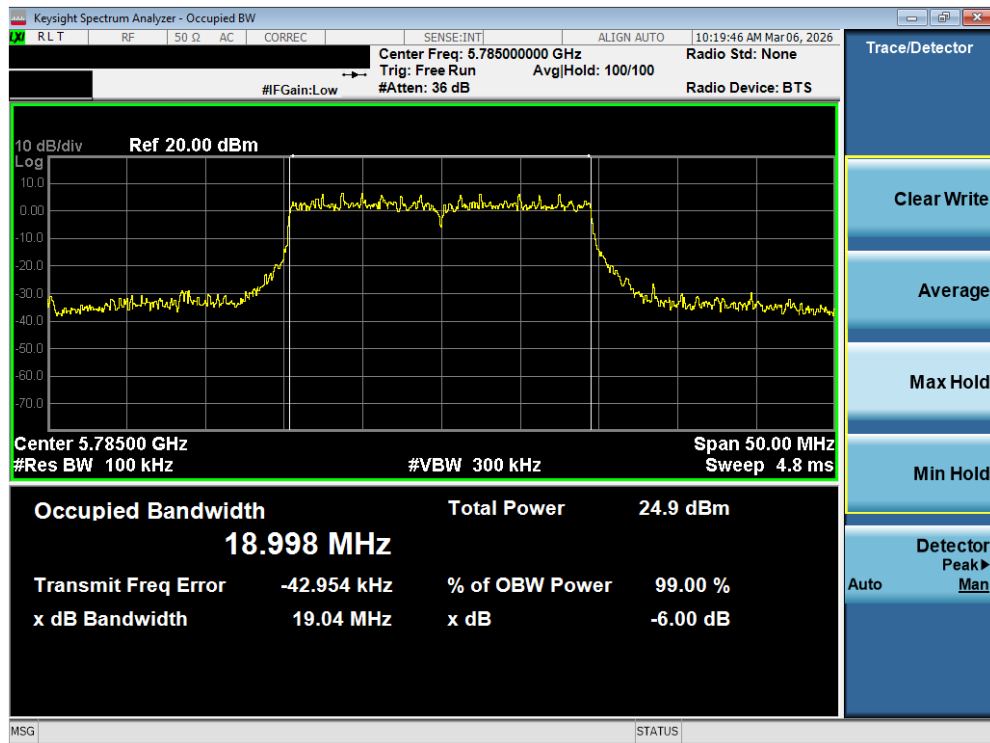


Plot 7-28. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 41 of 172		

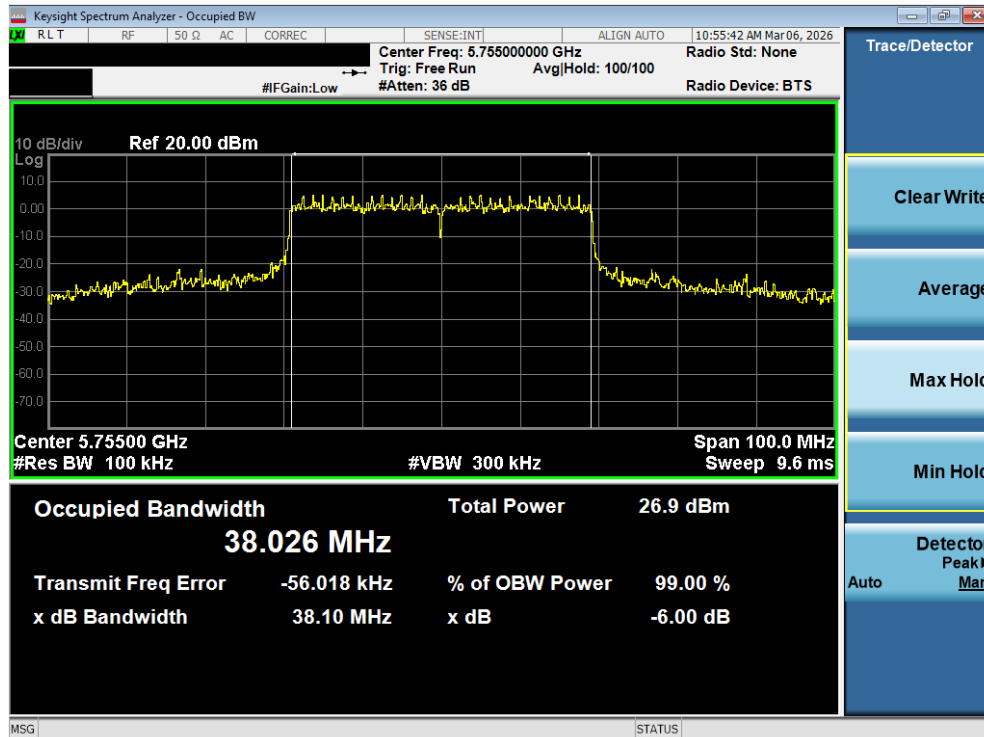


Plot 7-29. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 163)

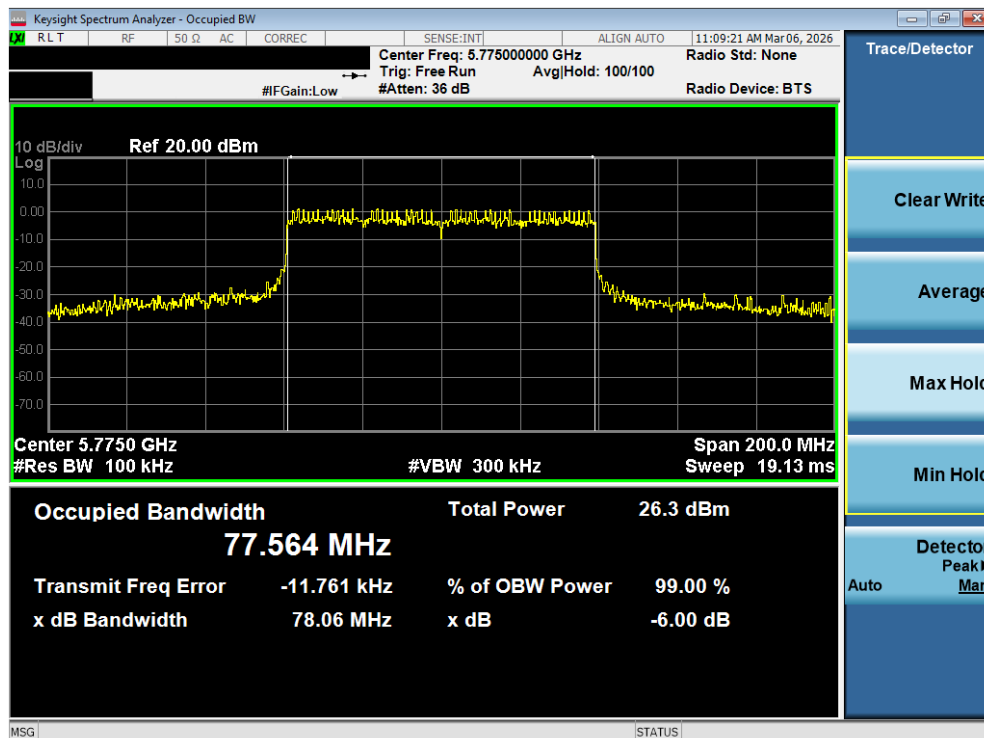


Plot 7-30. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 42 of 172

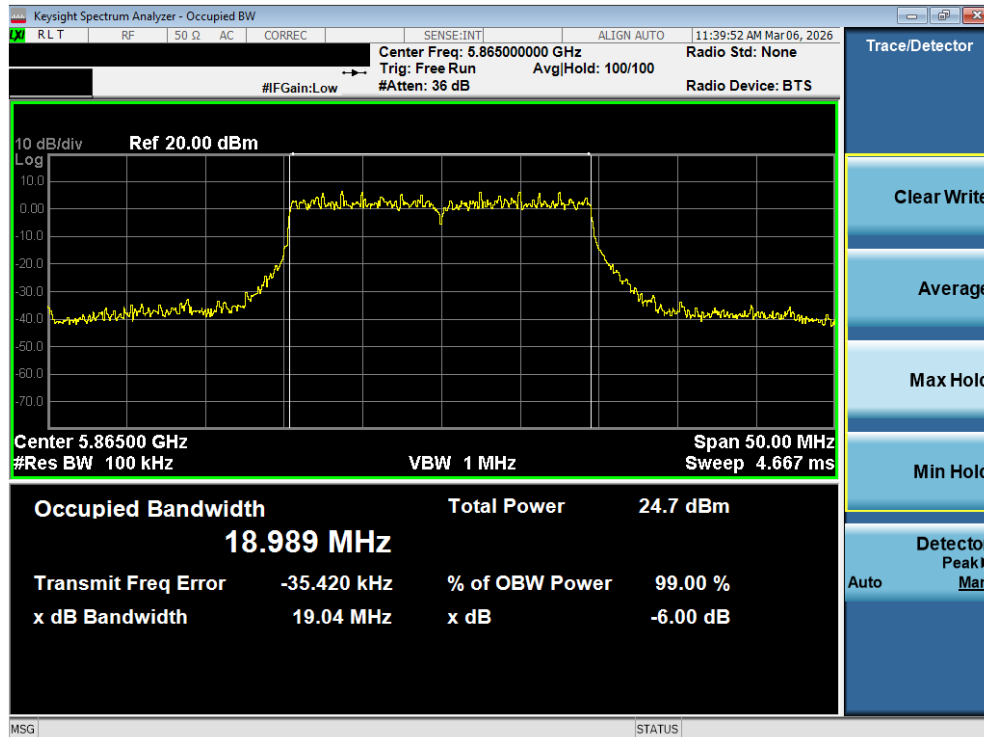


Plot 7-31. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11be – 484 Tones (UNII Band 3) – Ch. 151)

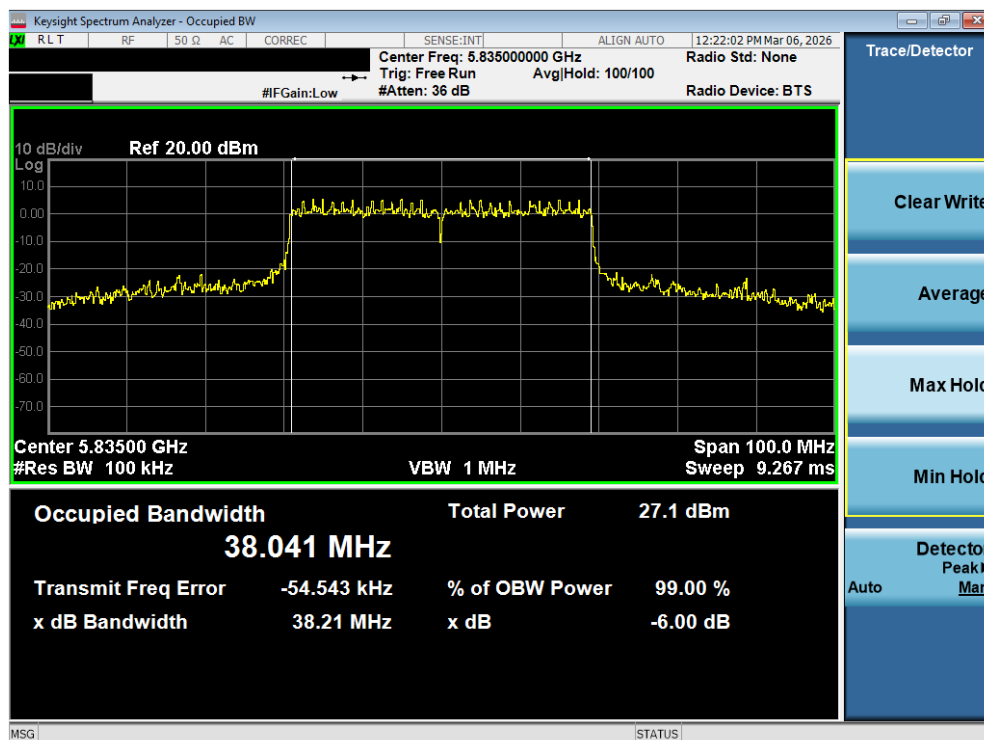


Plot 7-32. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 43 of 172

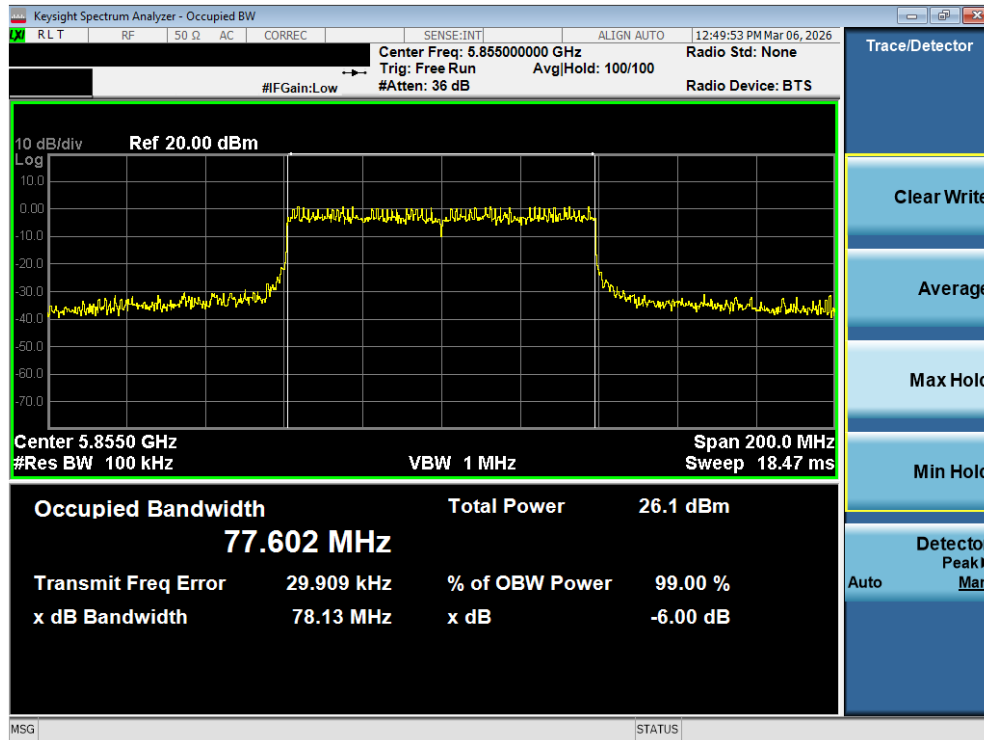


Plot 7-33. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 242 Tones (UNII Band 4) – Ch. 173)

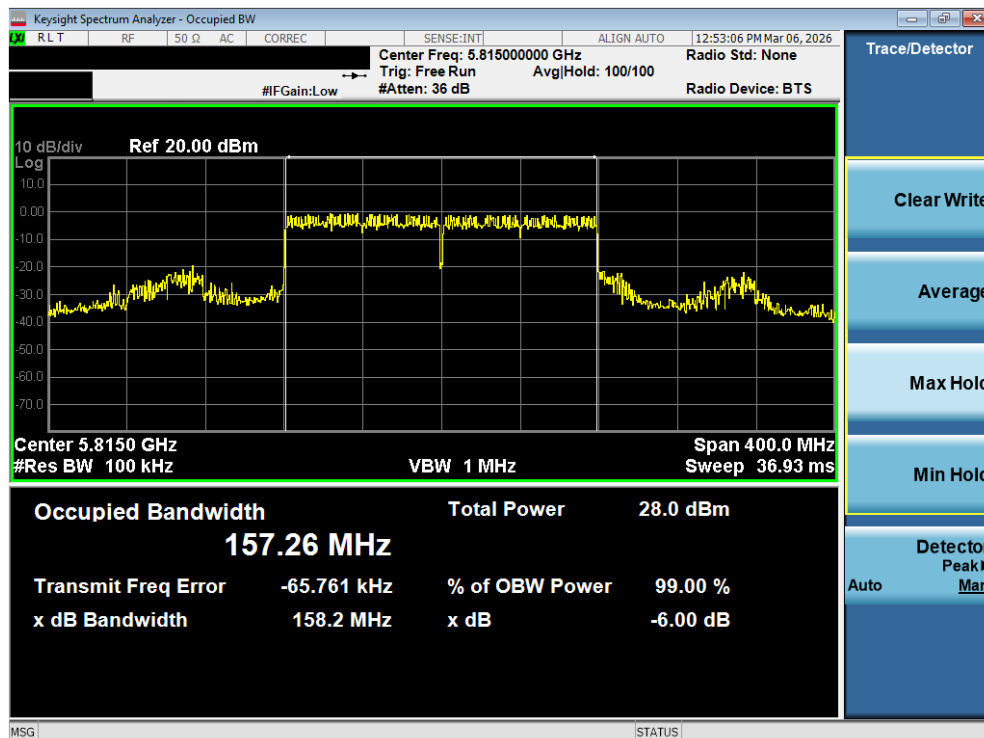


Plot 7-34. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11be – 484 Tones (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 44 of 172		

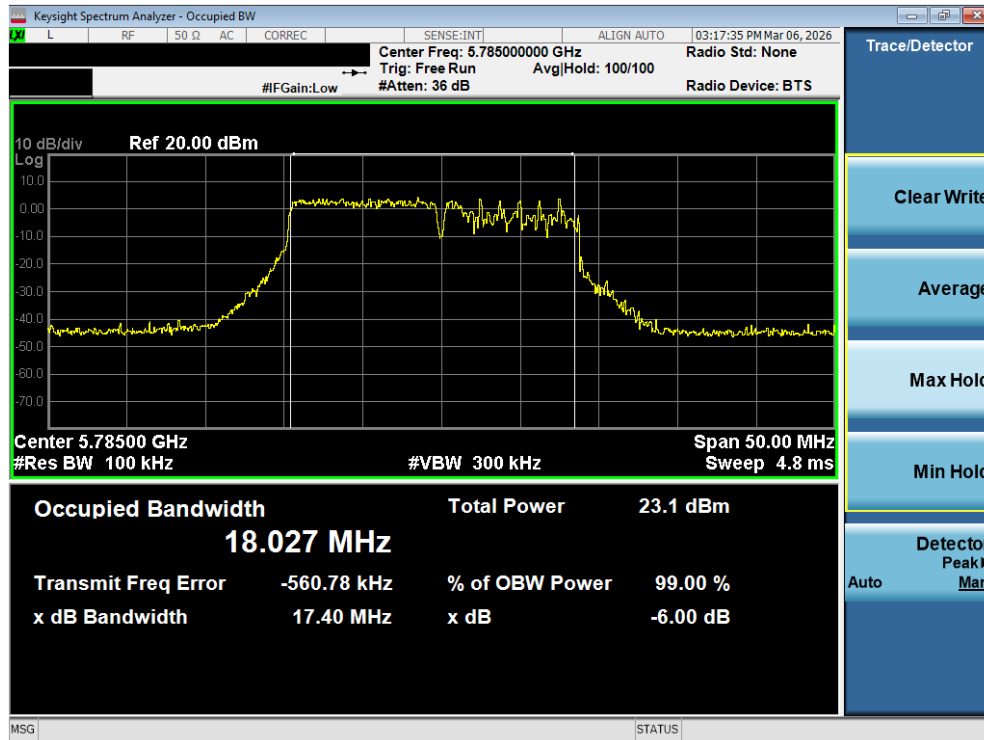


Plot 7-35. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 996 Tones (UNII Band 3/4) – Ch. 171)

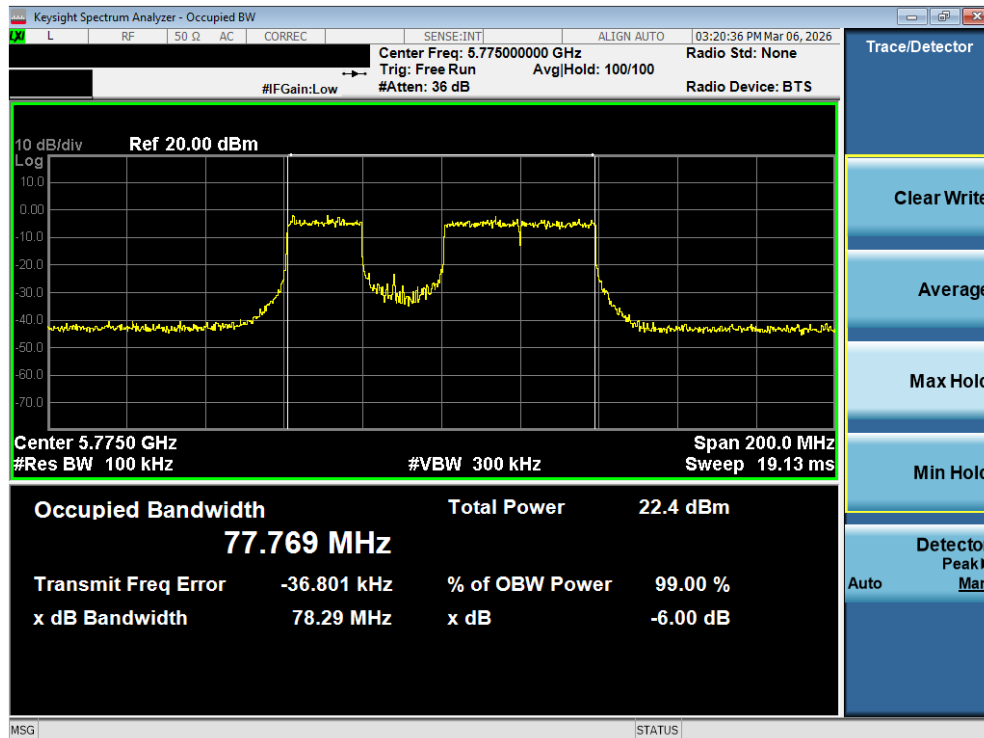


Plot 7-36. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11be – 996*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 45 of 172

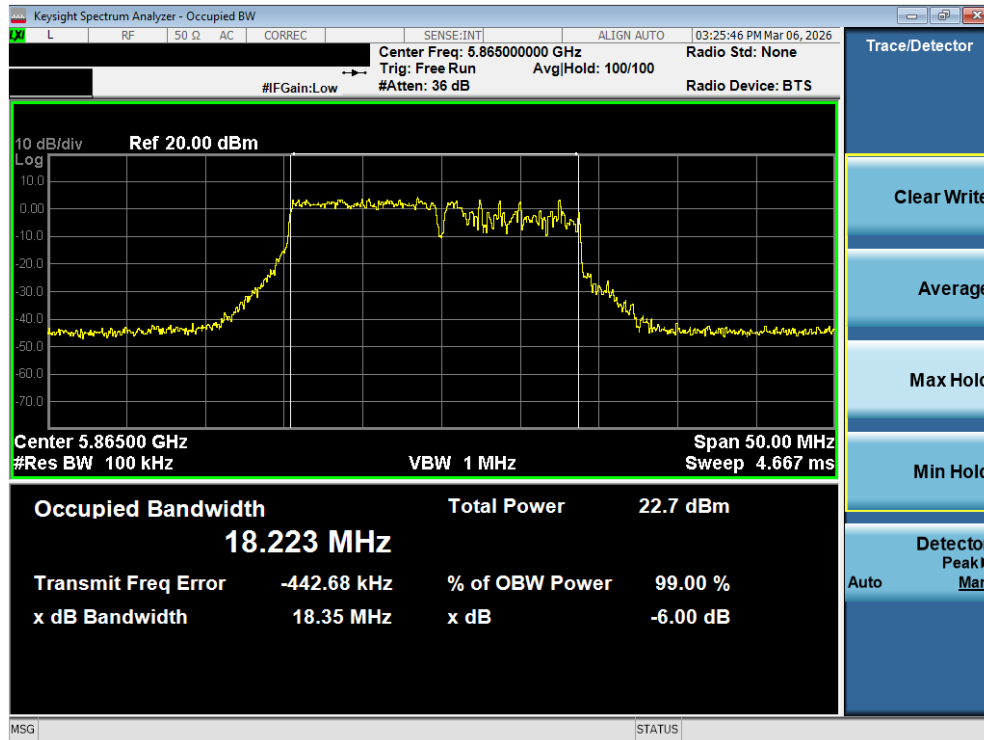


Plot 7-37. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 106+26 Tones (UNII Band 3) – Ch. 157)

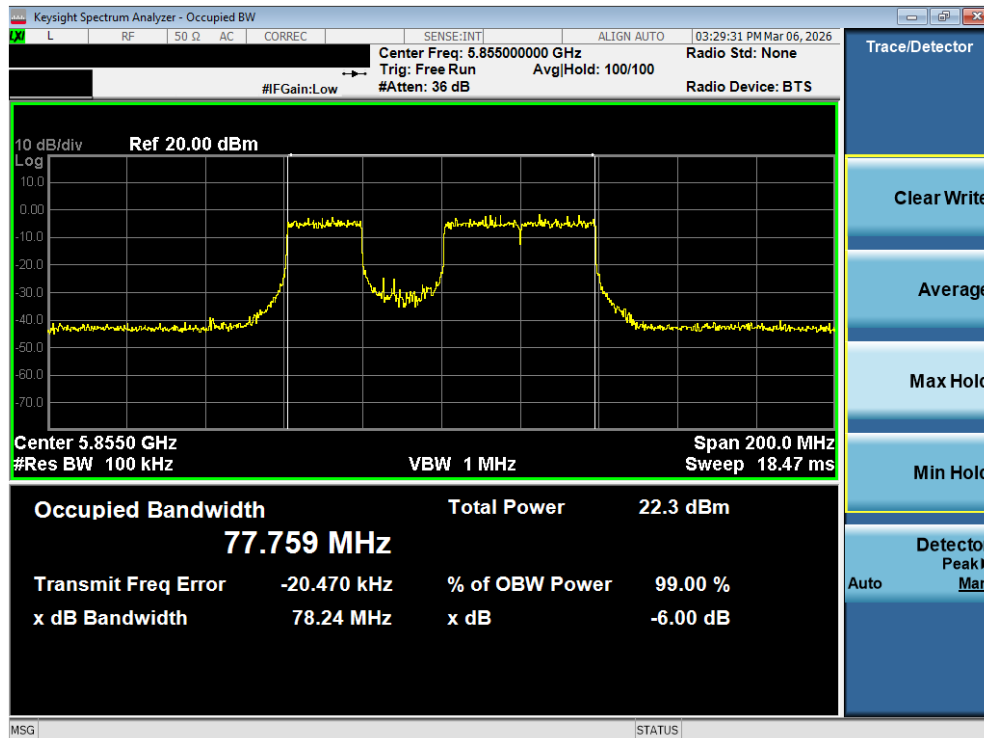


Plot 7-38. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 484+242 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 46 of 172

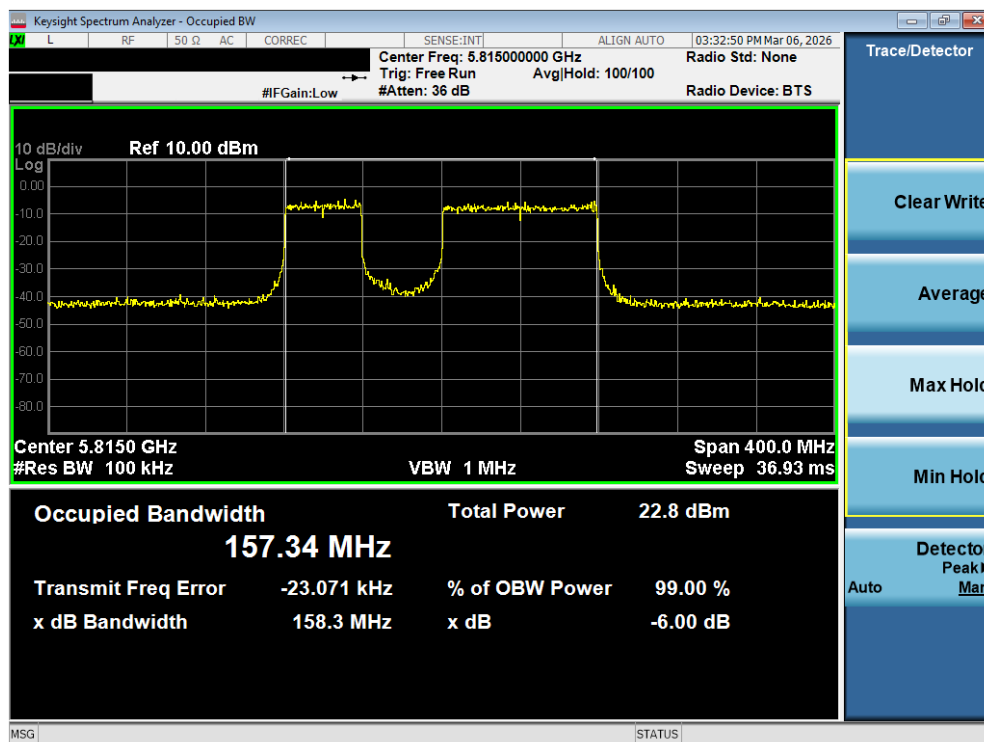


Plot 7-39. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11be – 106+26 Tones (UNII Band 4) – Ch. 173)



Plot 7-40. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11be – 484+242 Tones (UNII Band 3/4) – Ch. 171)

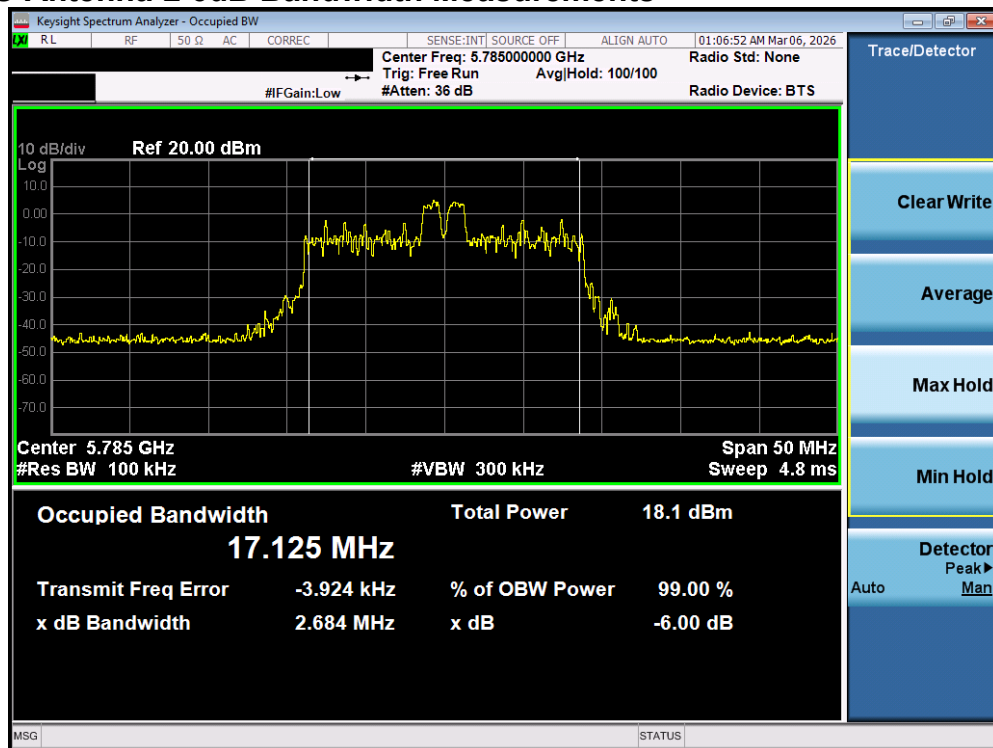
FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 47 of 172



Plot 7-41. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11be – 996+484 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 48 of 172		

7.3.2 MIMO Antenna-2 6dB Bandwidth Measurements

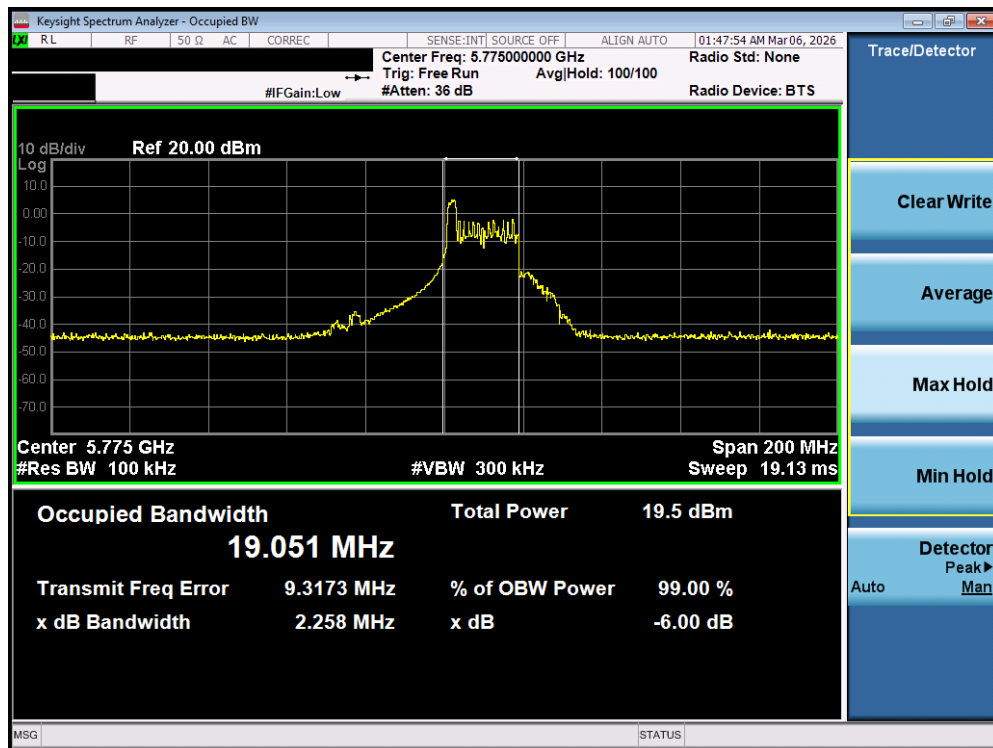


Plot 7-42. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 157)

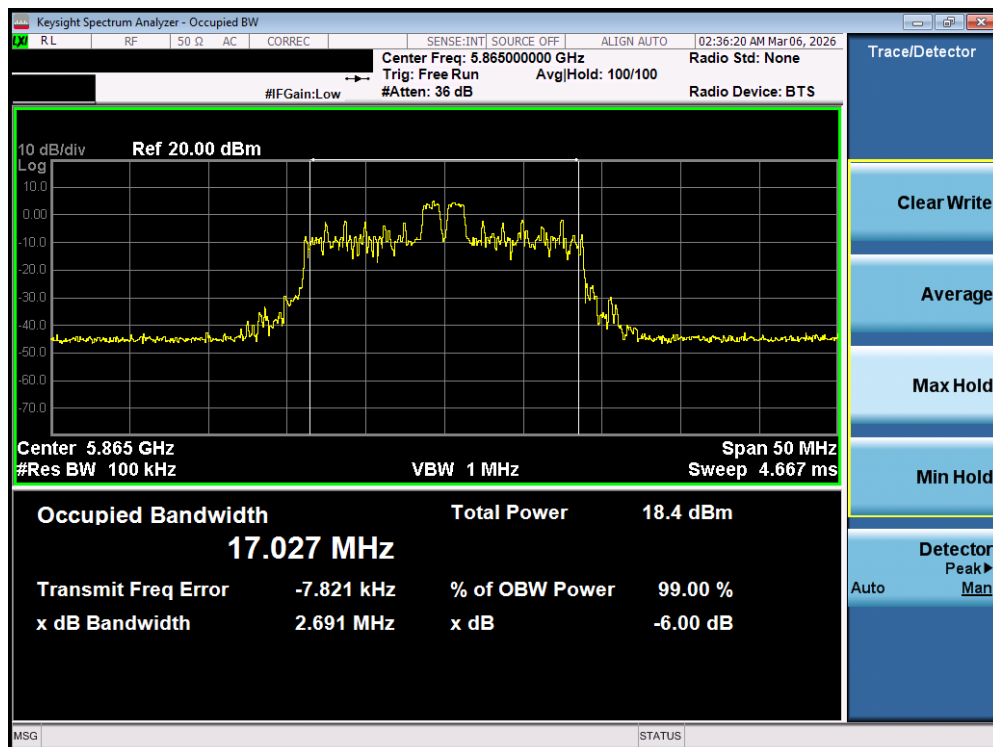


Plot 7-43. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 49 of 172

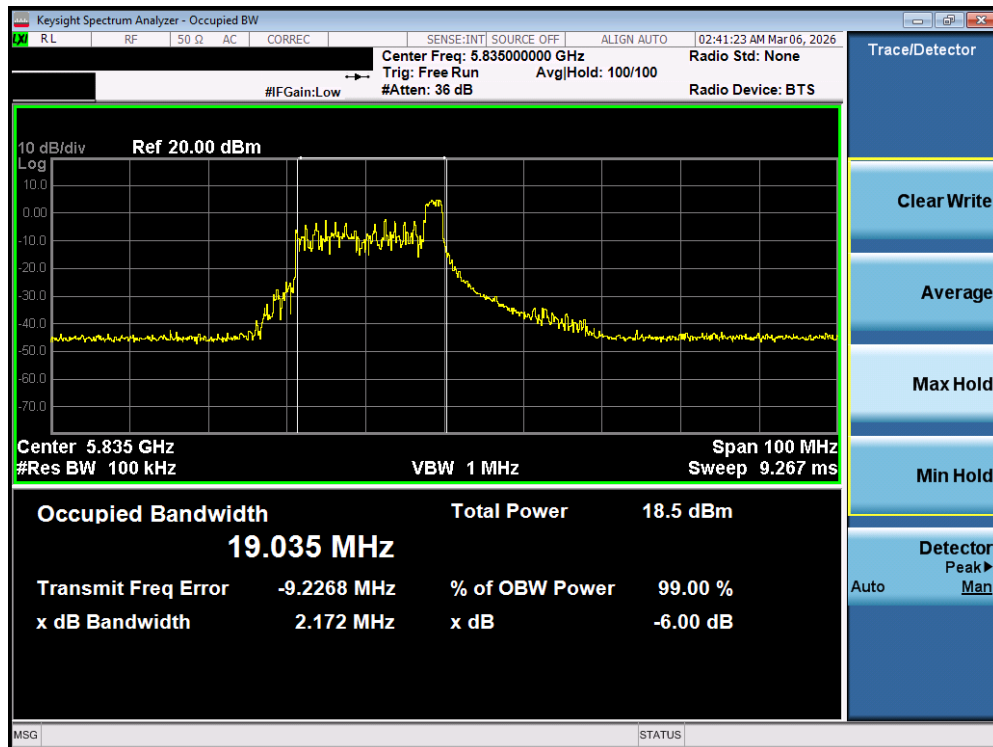


Plot 7-44. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 155)

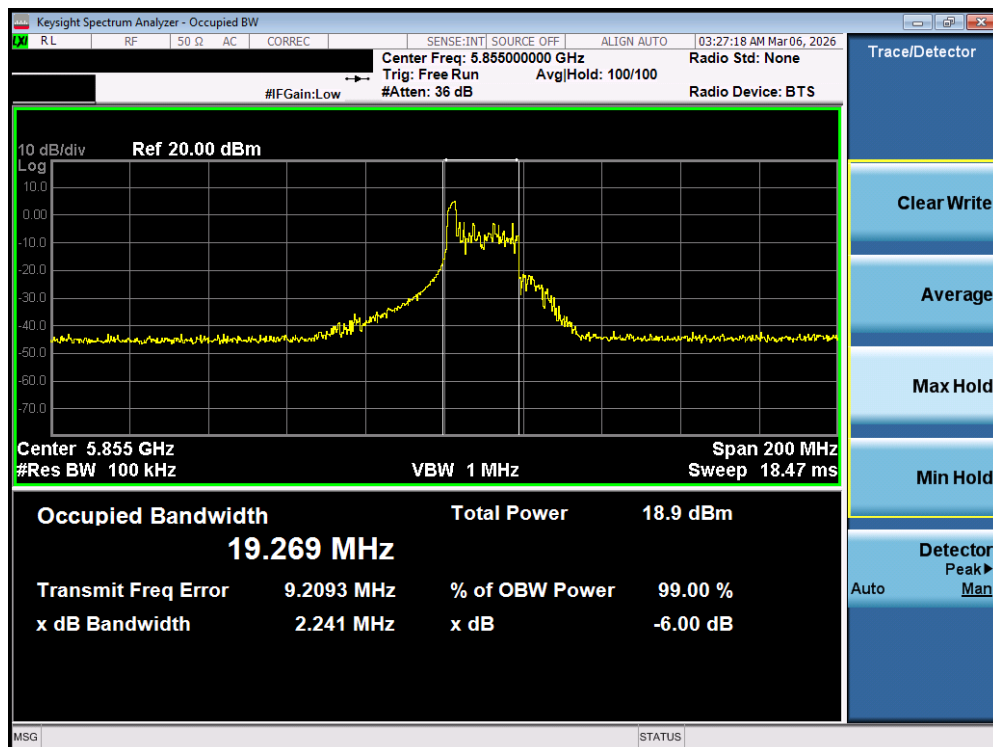


Plot 7-45. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 26 Tones (UNII Band 4) – Ch. 173)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 50 of 172

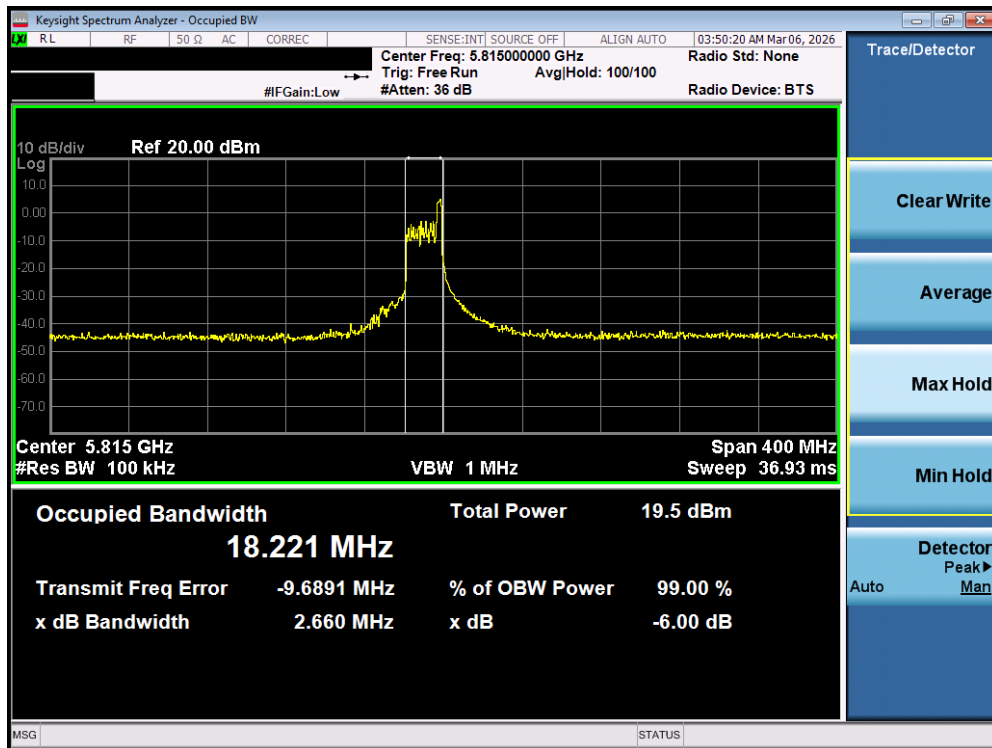


Plot 7-46. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 167)

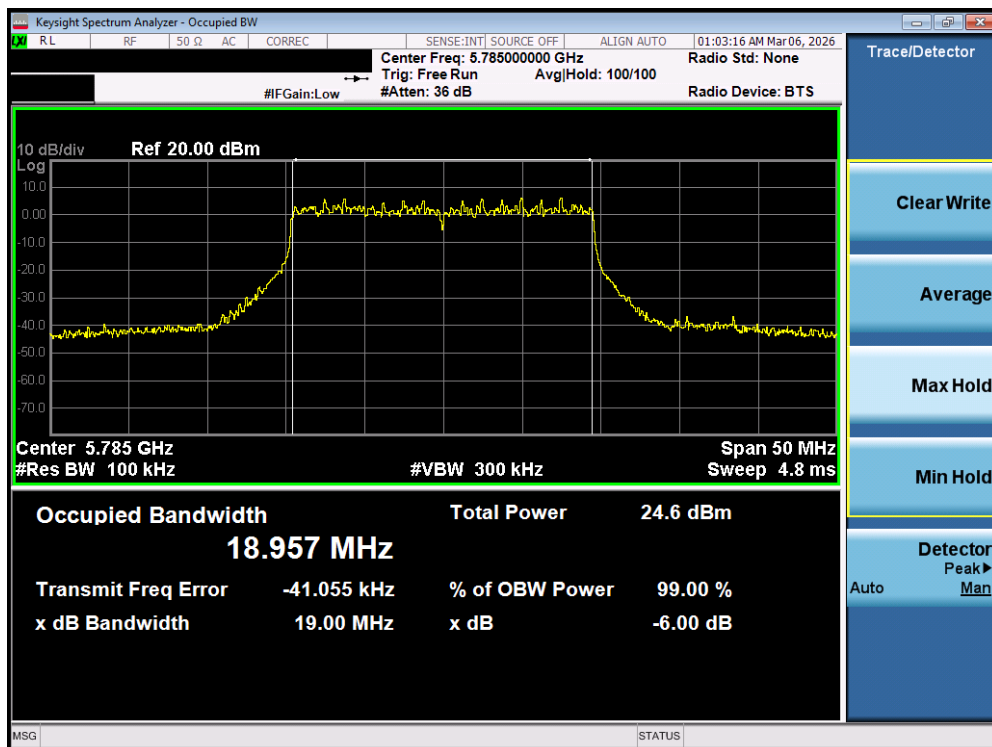


Plot 7-47. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 51 of 172		

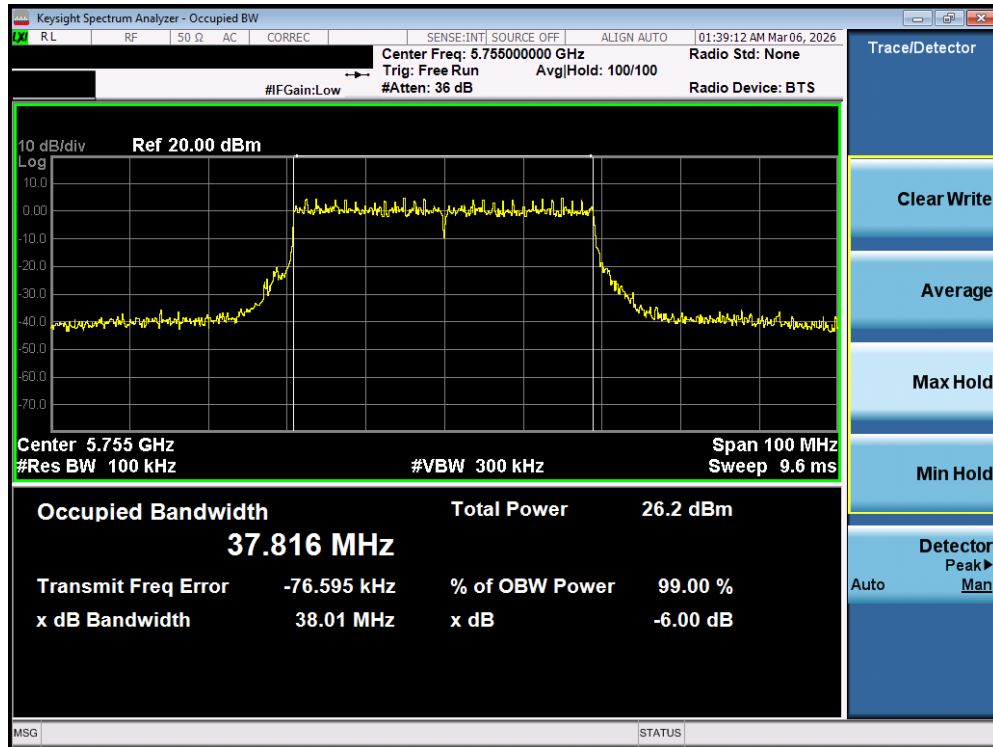


Plot 7-48. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 163)

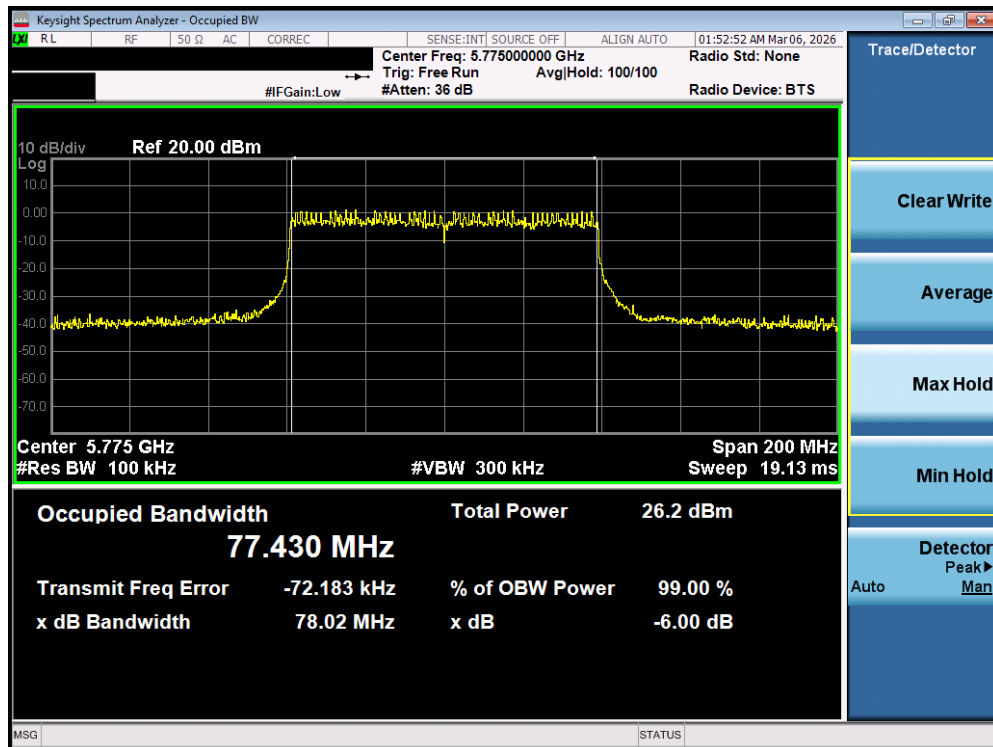


Plot 7-49. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 52 of 172

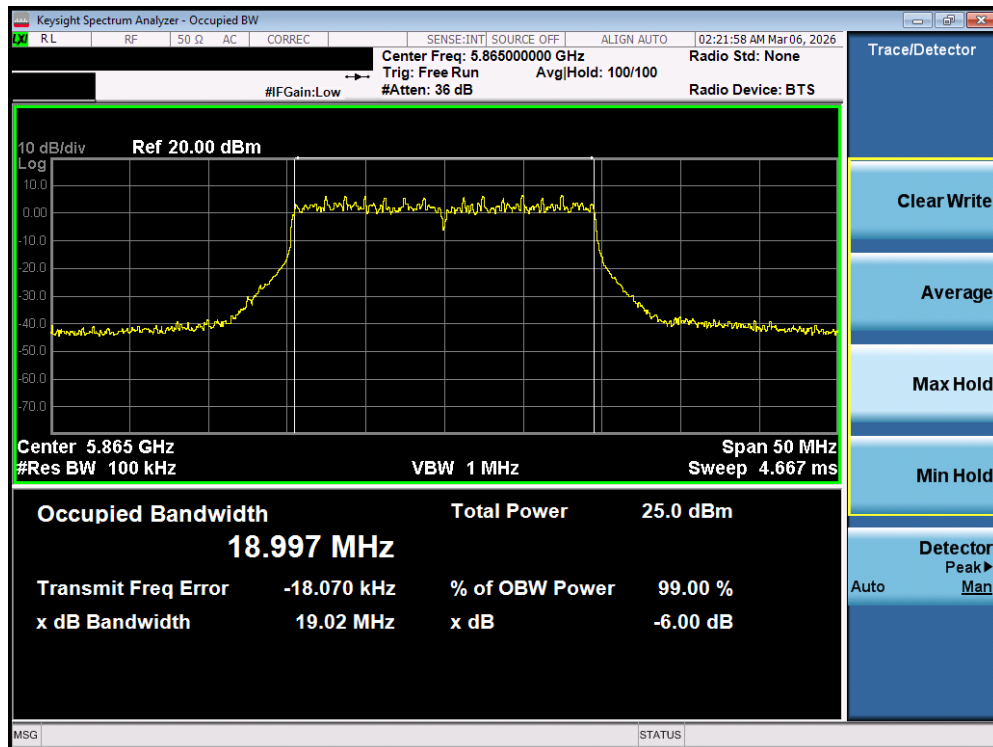


Plot 7-50. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be – 484 Tones (UNII Band 3) – Ch. 151)

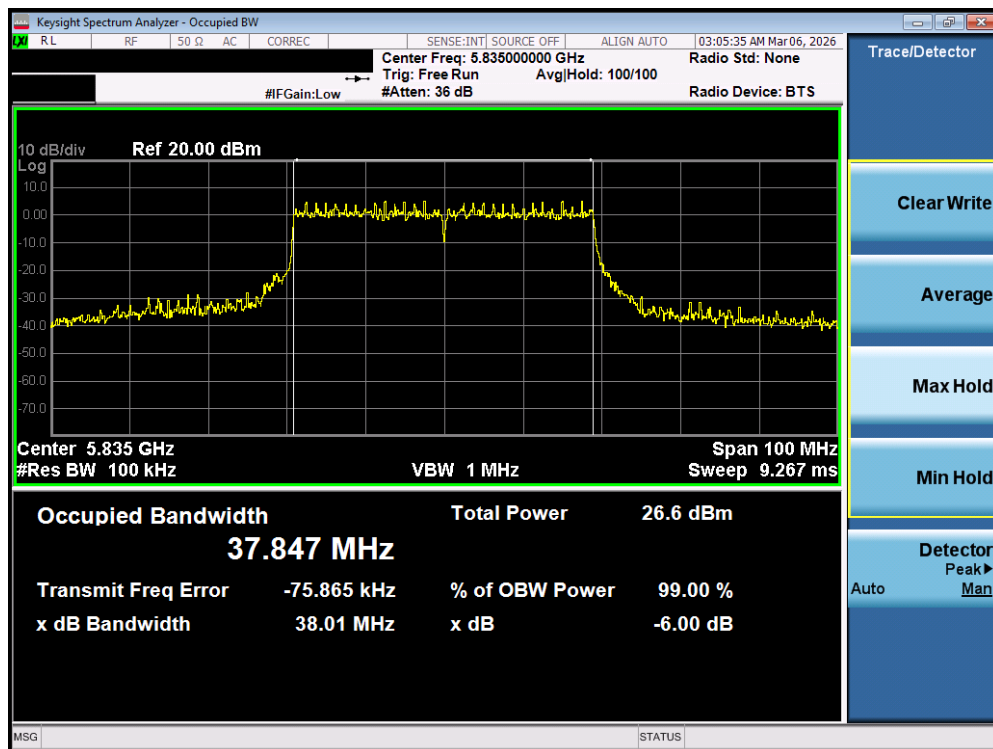


Plot 7-51. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 53 of 172

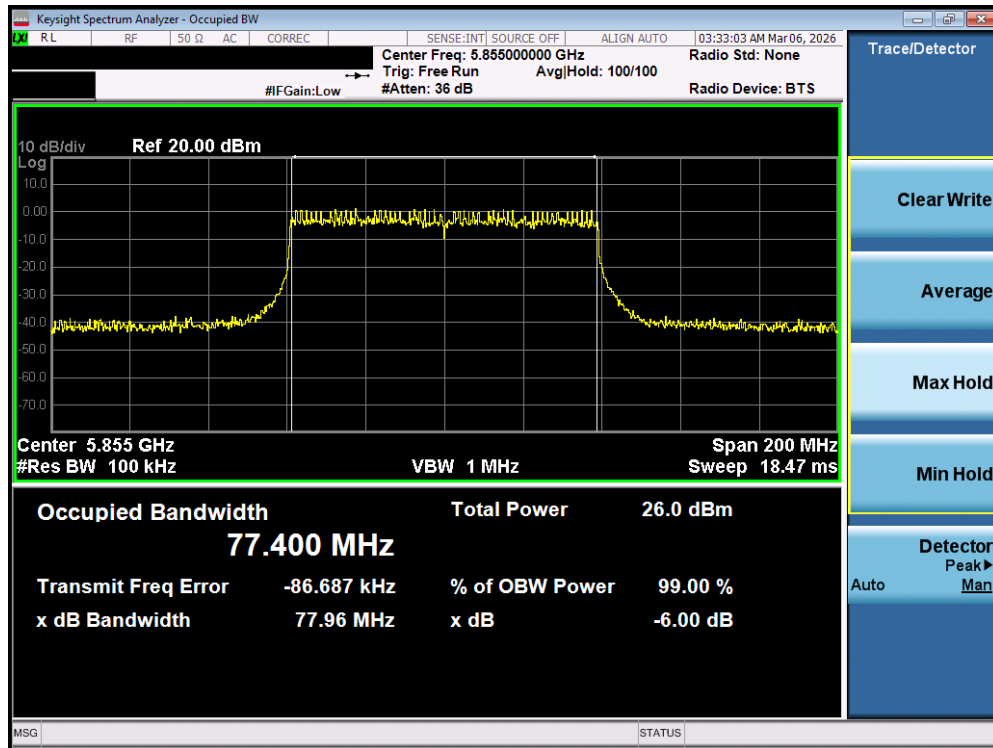


Plot 7-52. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 242 Tones (UNII Band 4) – Ch. 173)

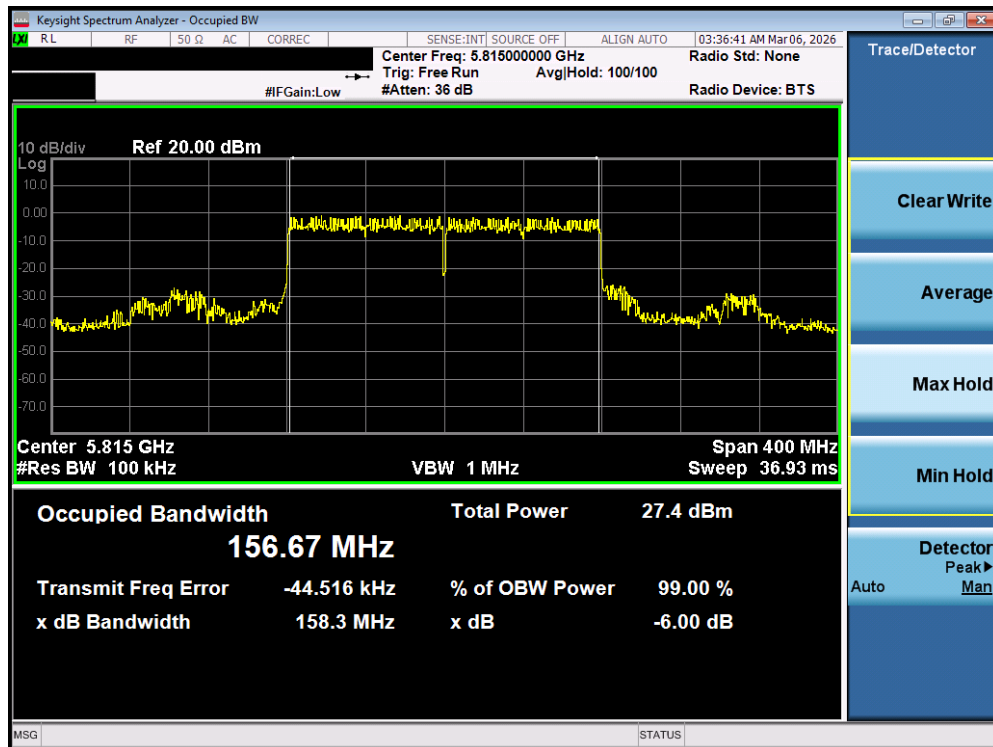


Plot 7-53. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be – 484 Tones (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 54 of 172

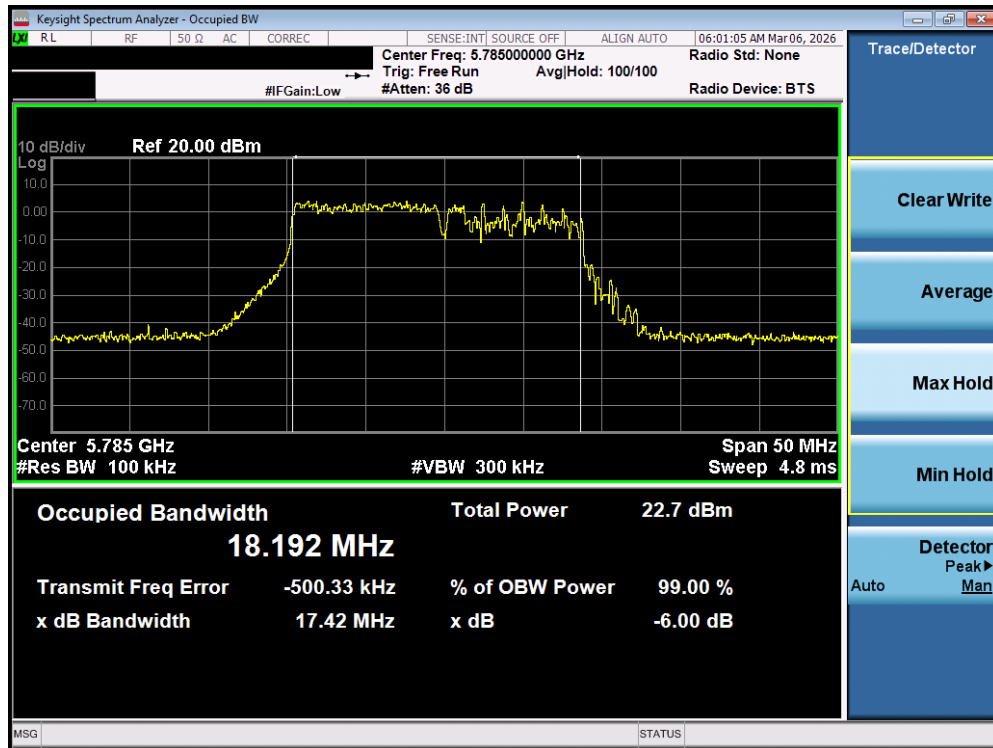


Plot 7-54. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 996 Tones (UNII Band 3/4) – Ch. 171)

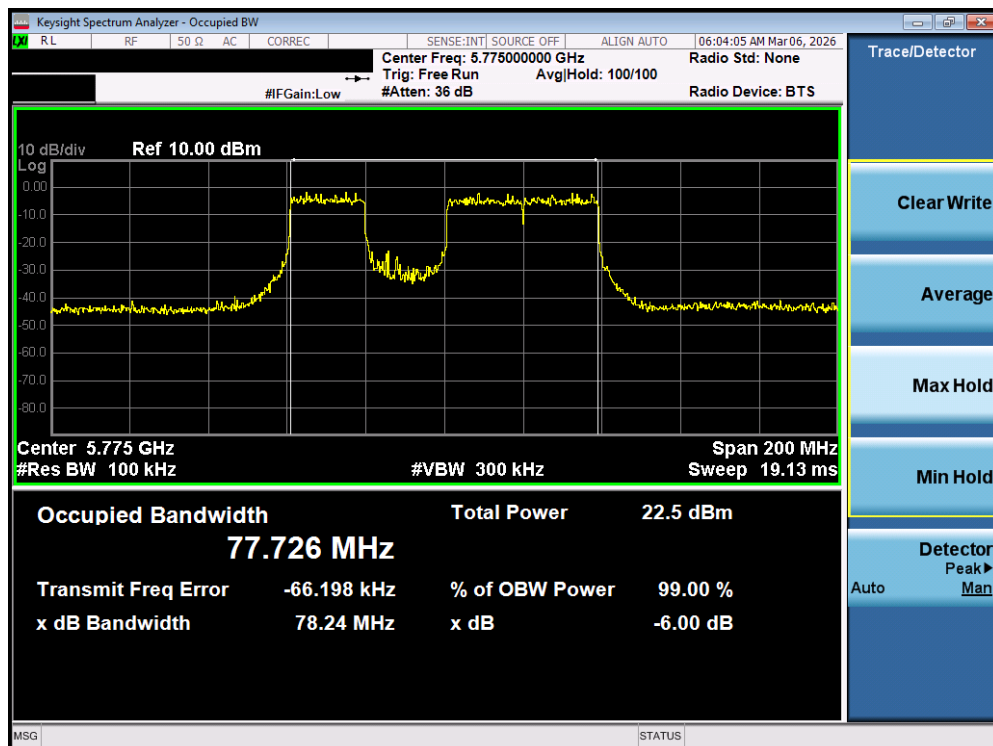


Plot 7-55. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11be – 996*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 55 of 172

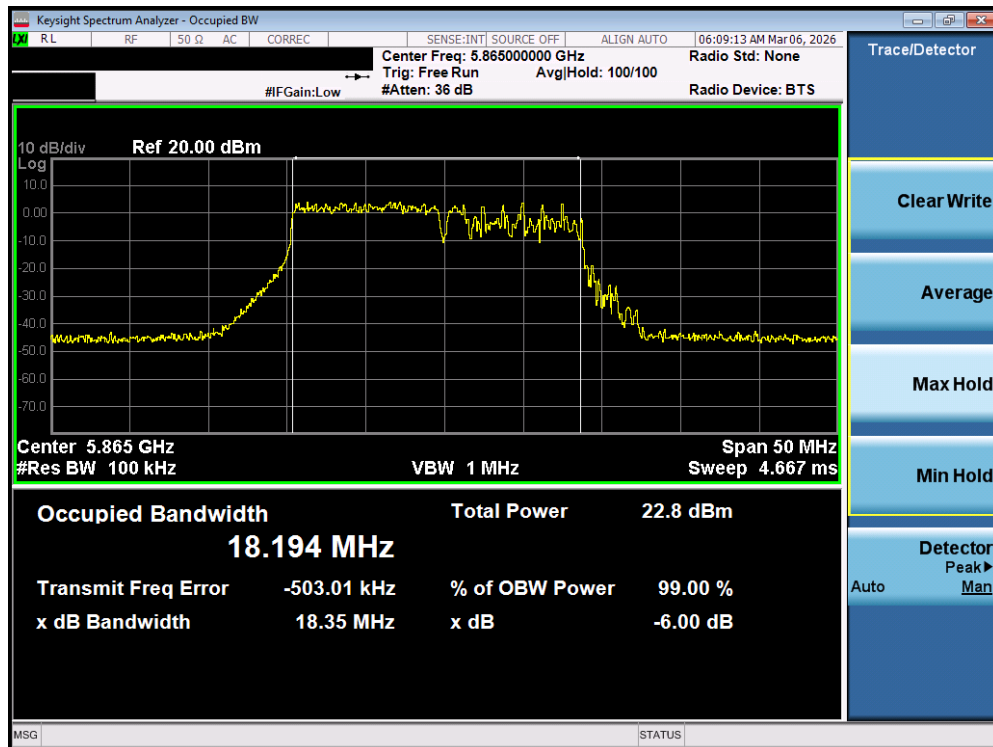


Plot 7-56. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 106+26 Tones (UNII Band 3) – Ch. 157)

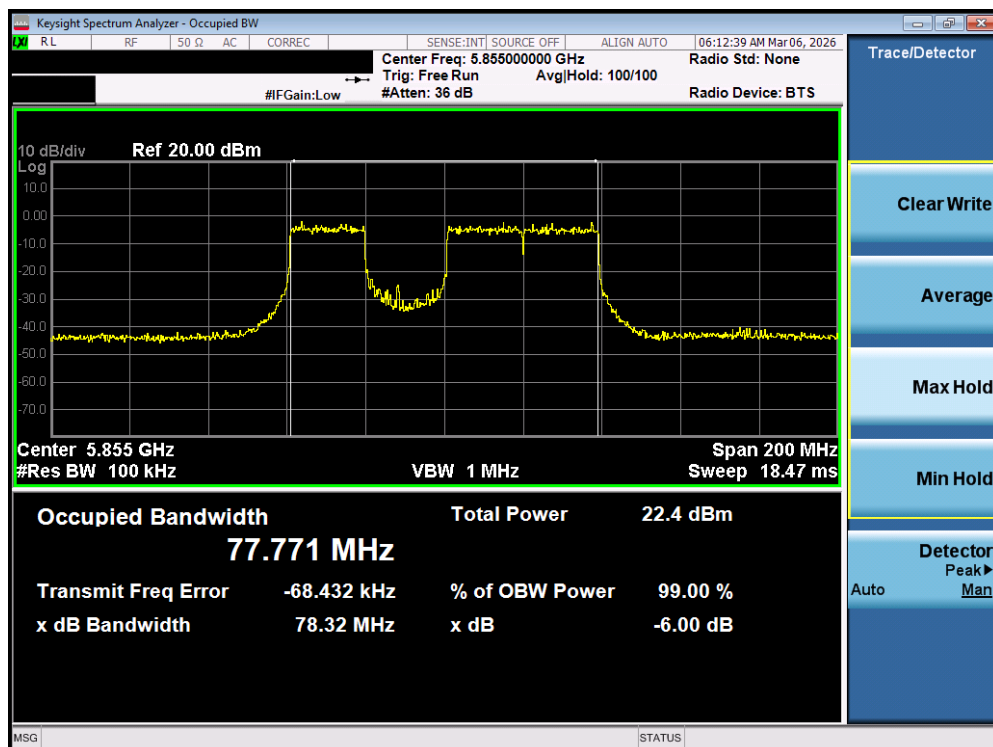


Plot 7-57. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 484+242 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 56 of 172

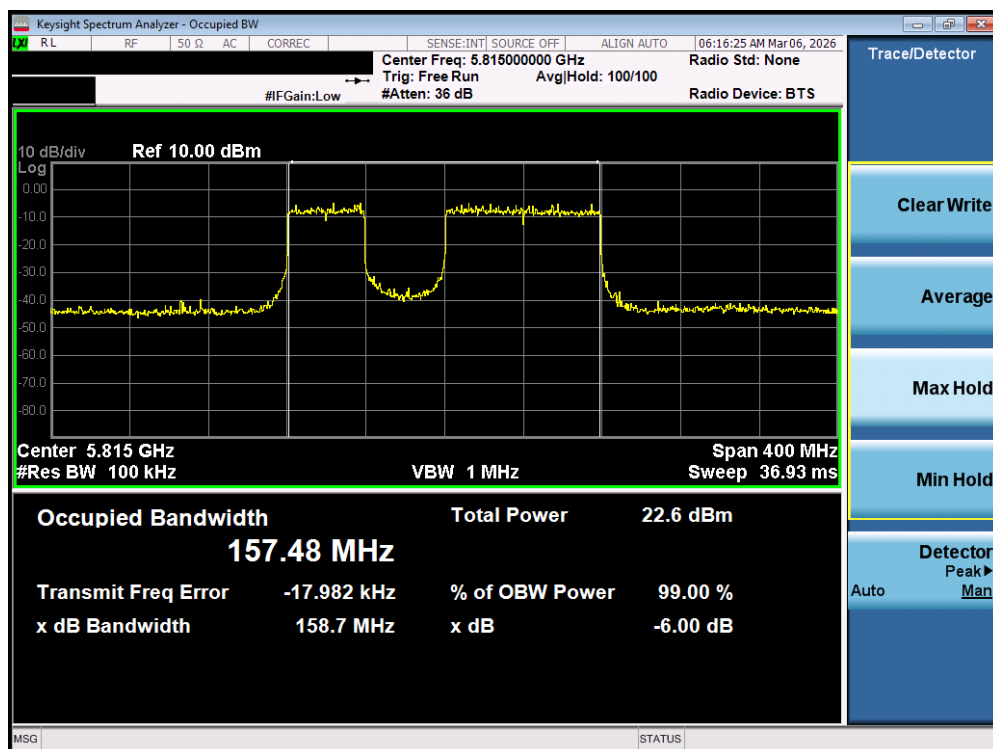


Plot 7-58. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be – 106+26 Tones (UNII Band 4) – Ch. 173)



Plot 7-59. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 484+242 Tones (UNII Band 3/4) – Ch. 171)

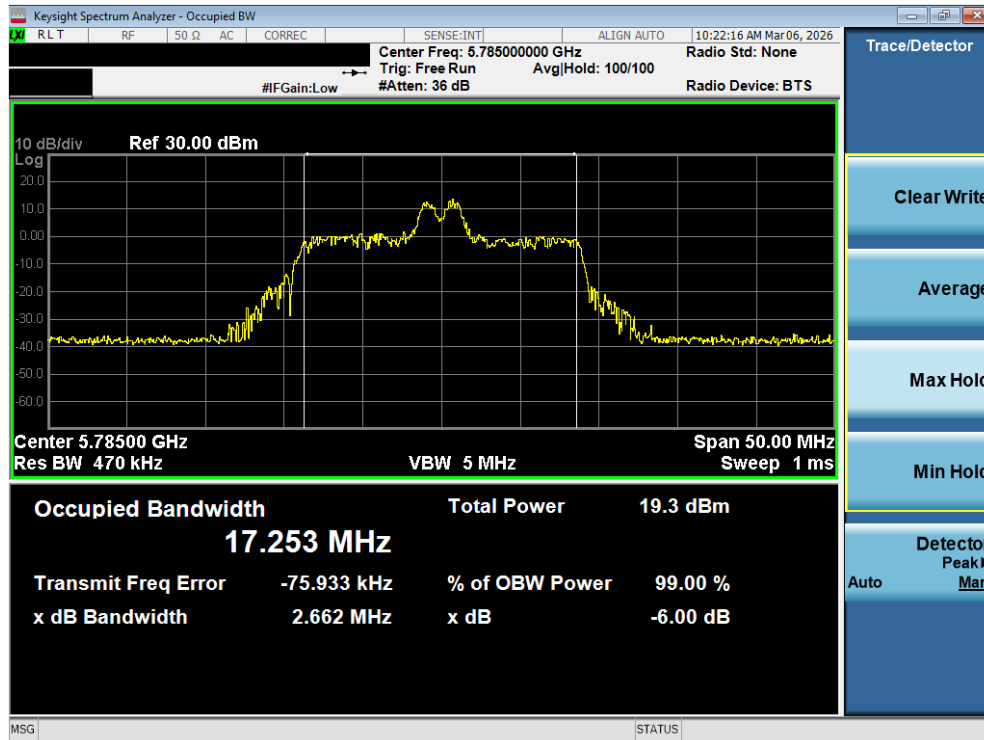
FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 57 of 172



Plot 7-60. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11be – 996+484 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 58 of 172		

7.3.3 MIMO Antenna-1 OBW Measurements

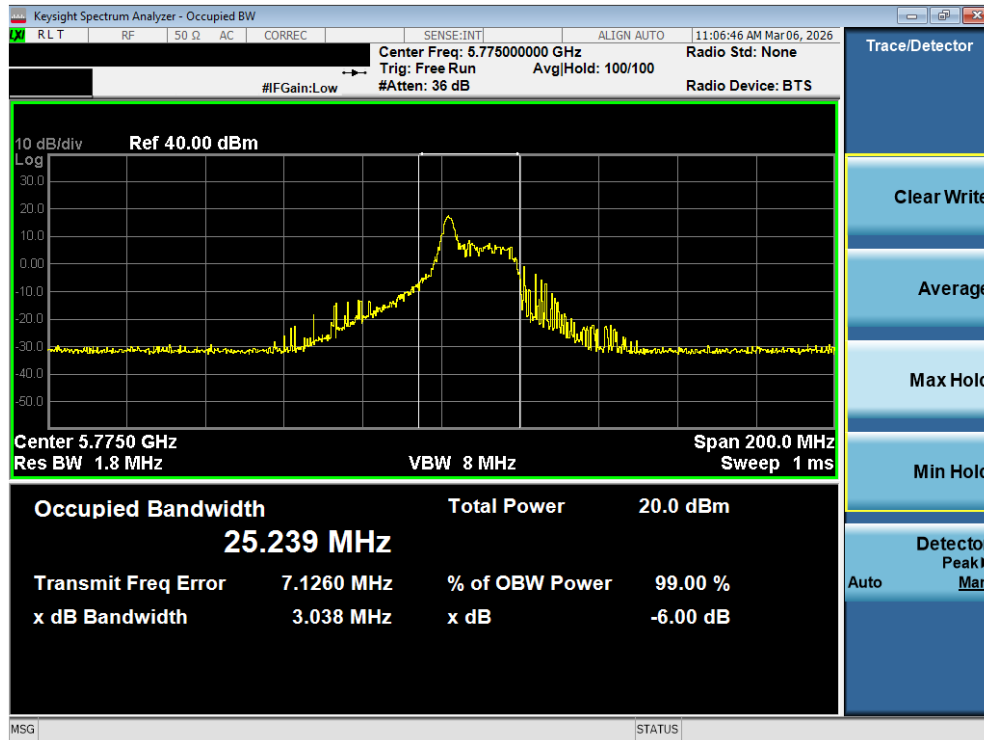


Plot 7-61. OBW Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 157)

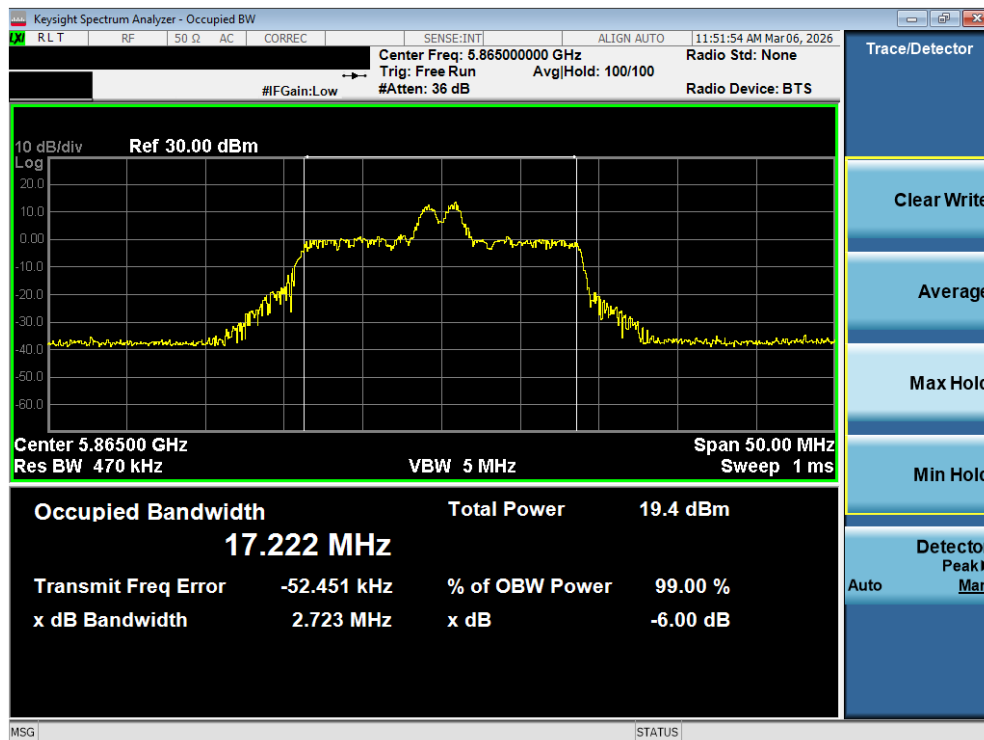


Plot 7-62. OBW Plot MIMO ANT1 (40MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 59 of 172		

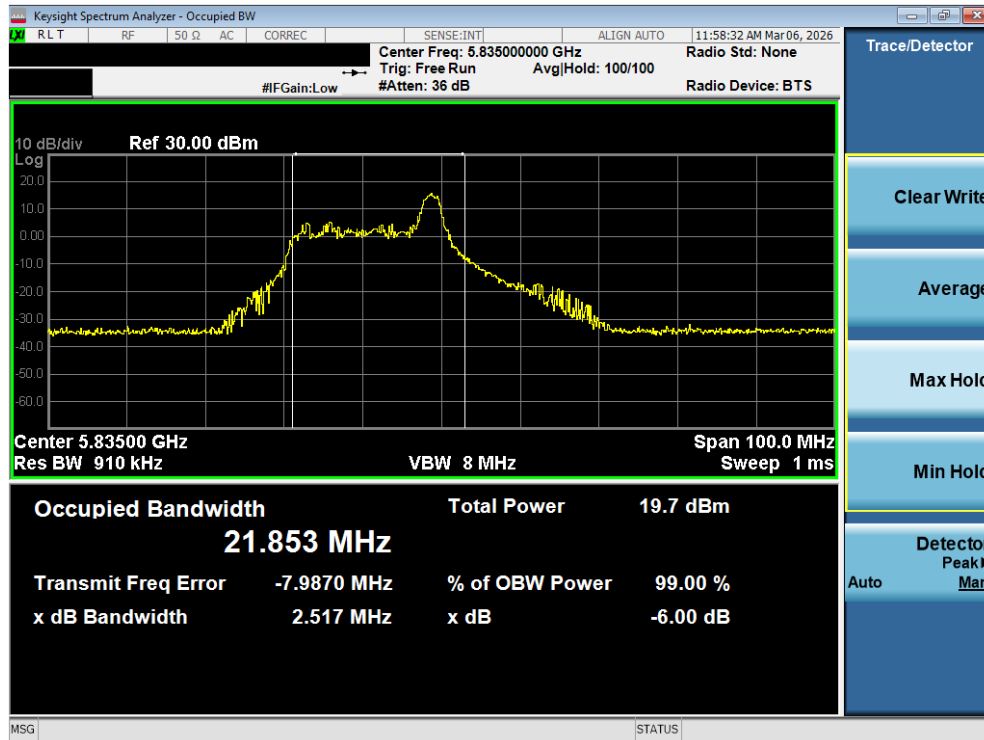


Plot 7-63. OBW Plot MIMO ANT1 (80MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 155)

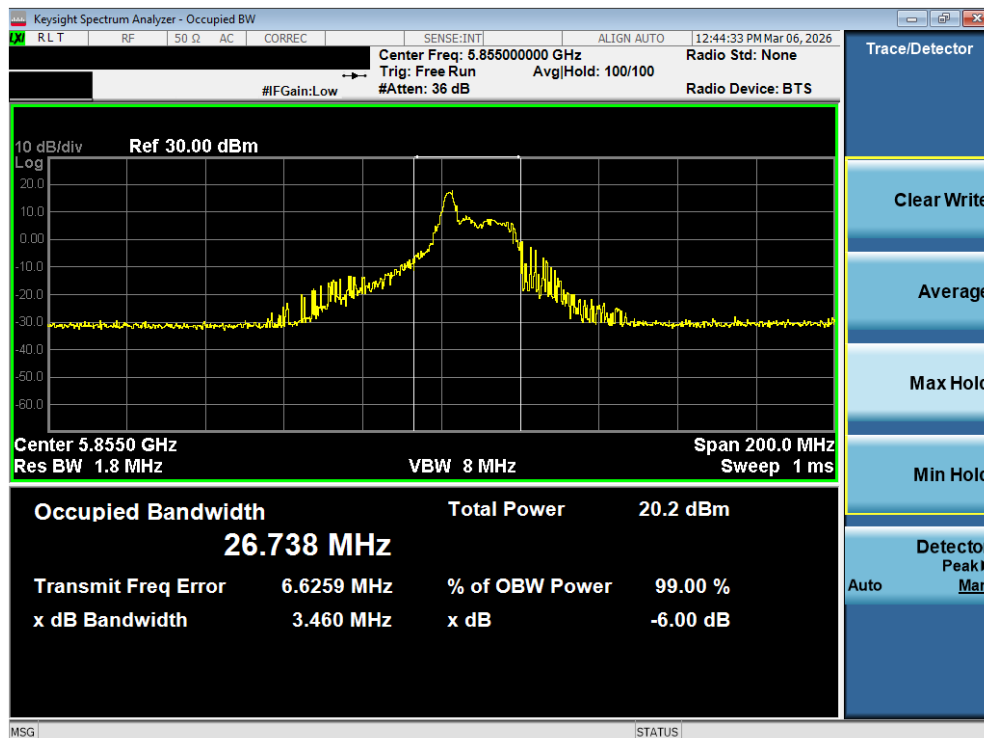


Plot 7-64. OBW Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 4) – Ch. 173)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 60 of 172

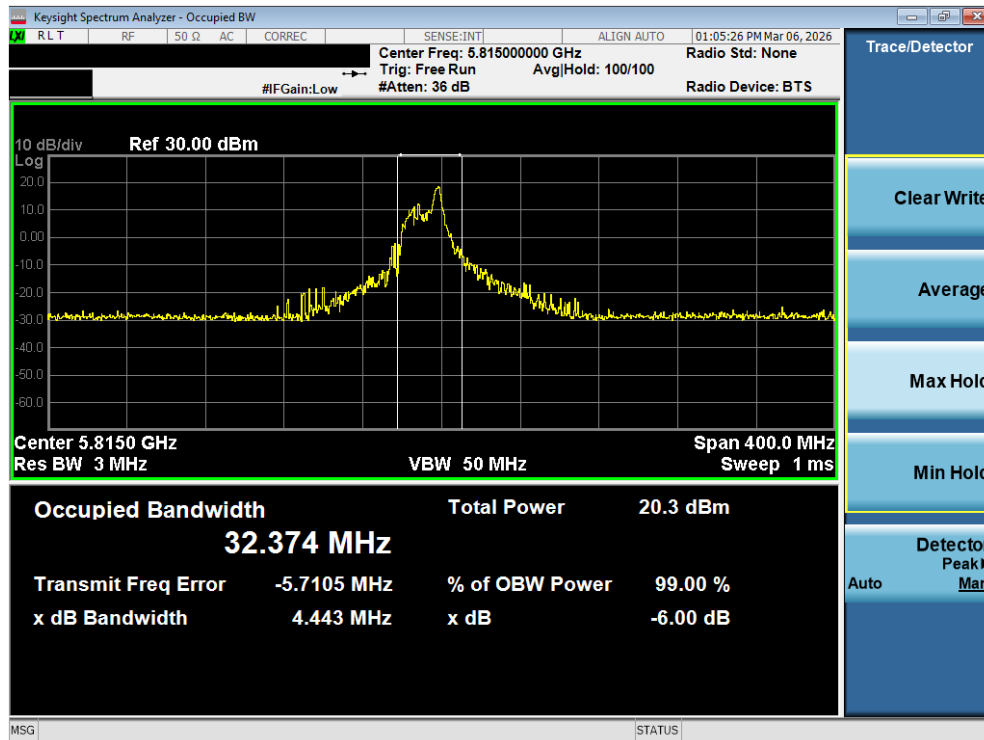


Plot 7-65. OBW Plot MIMO ANT1 (40MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 167)

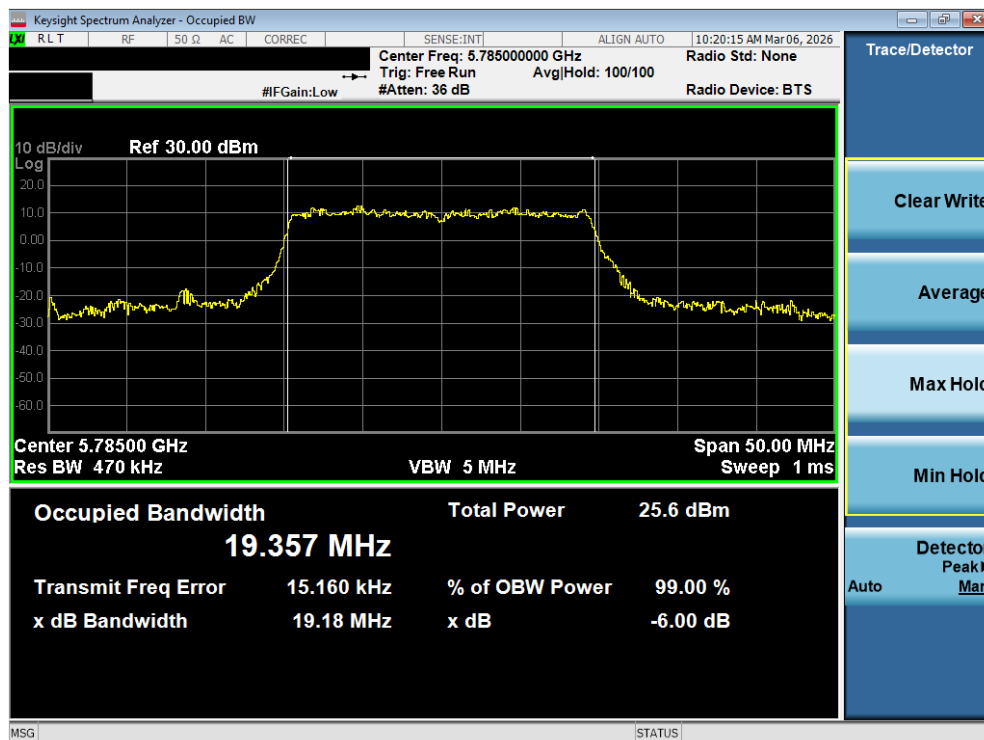


Plot 7-66. OBW Plot MIMO ANT1 (80MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 61 of 172

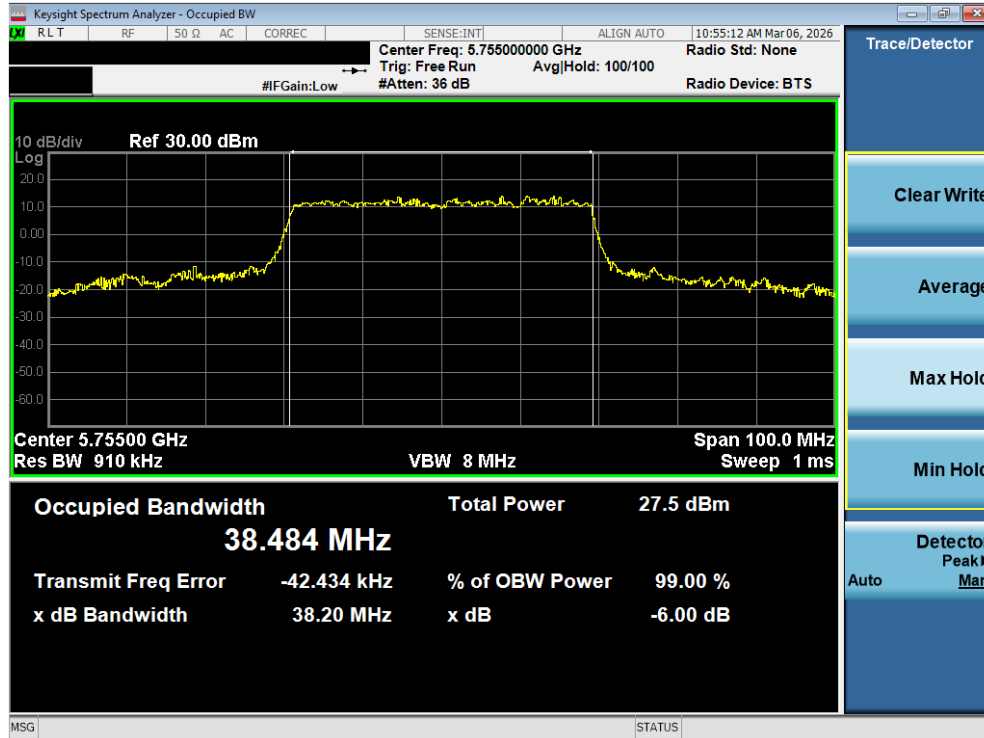


Plot 7-67. OBW Plot MIMO ANT1 (160MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 163)

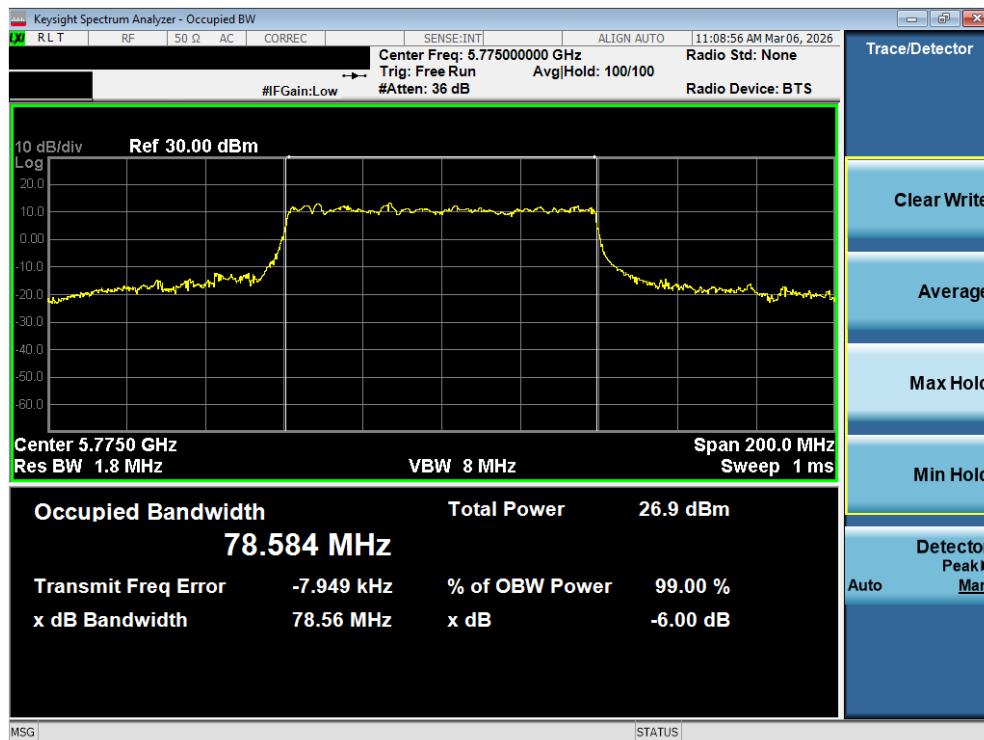


Plot 7-68. OBW Plot MIMO ANT1 (20MHz BW 802.11be – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 62 of 172

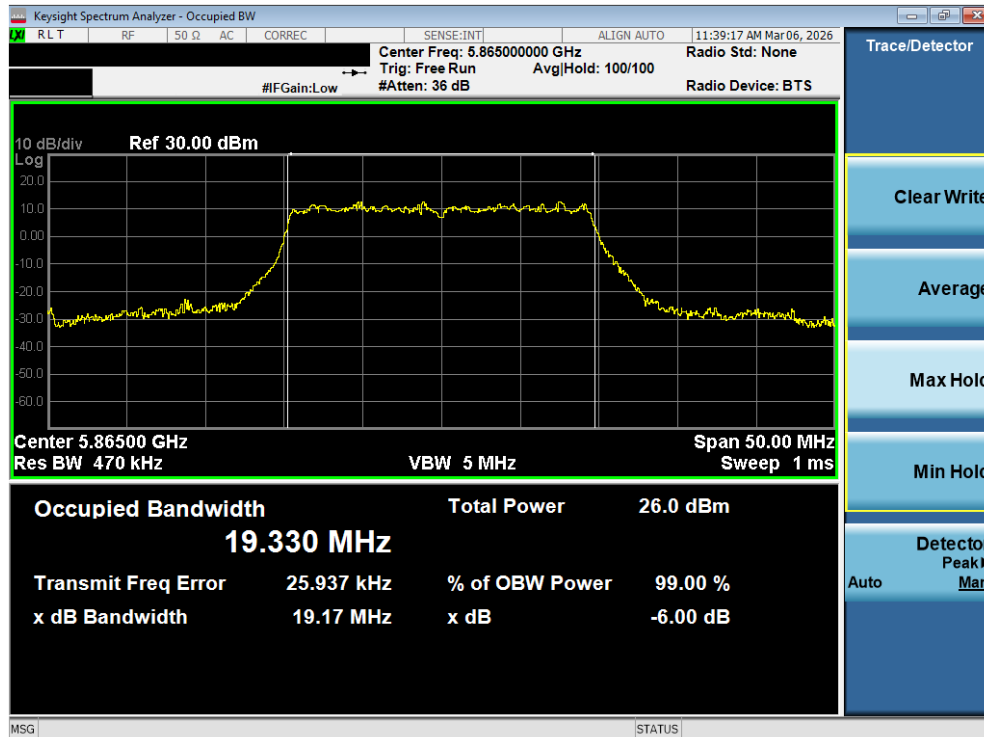


Plot 7-69. OBW Plot MIMO ANT1 (40MHz BW 802.11be – 484 Tones (UNII Band 3) – Ch. 151)

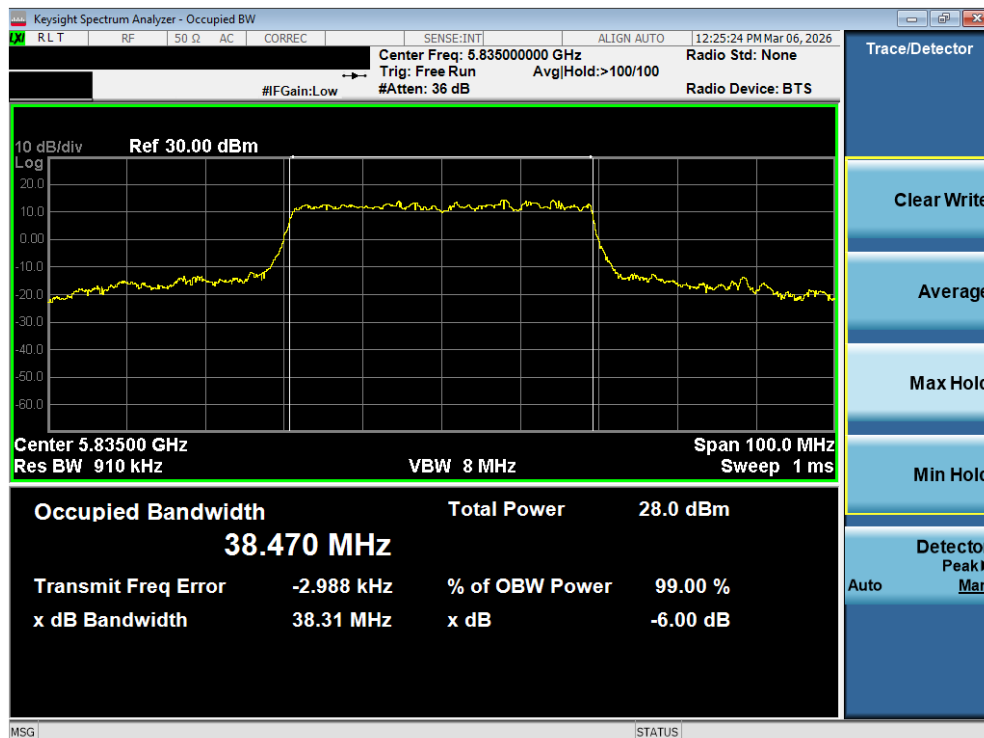


Plot 7-70. OBW Plot MIMO ANT1 (80MHz BW 802.11be – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 63 of 172

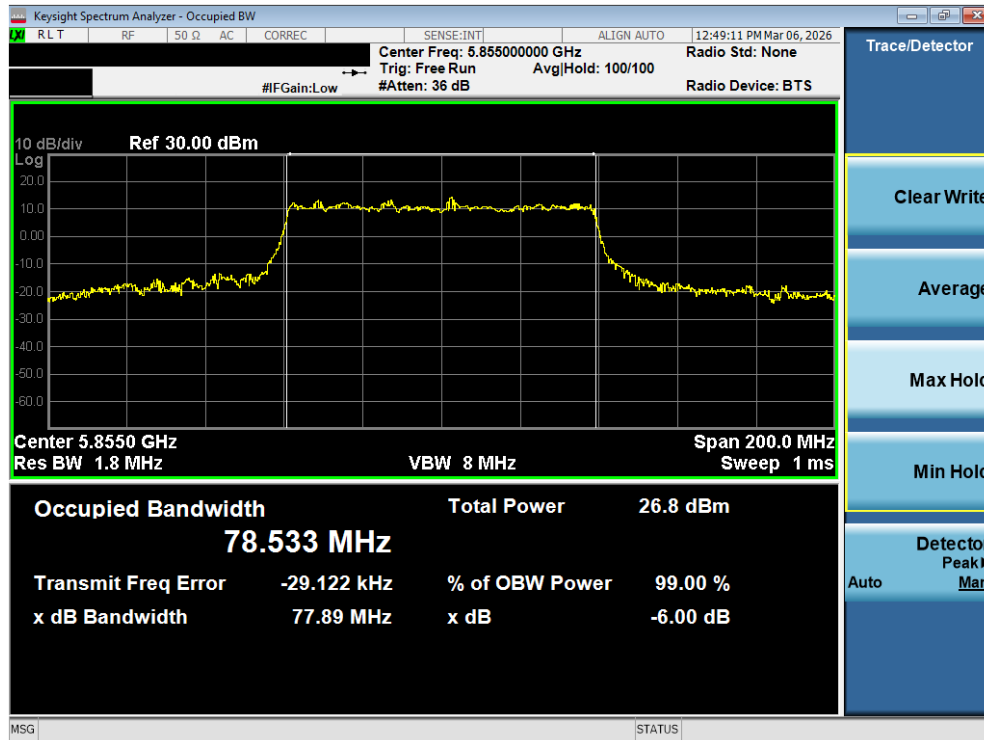


Plot 7-71. OBW Plot MIMO ANT1 (20MHz BW 802.11be – 242 Tones (UNII Band 4) – Ch. 173)

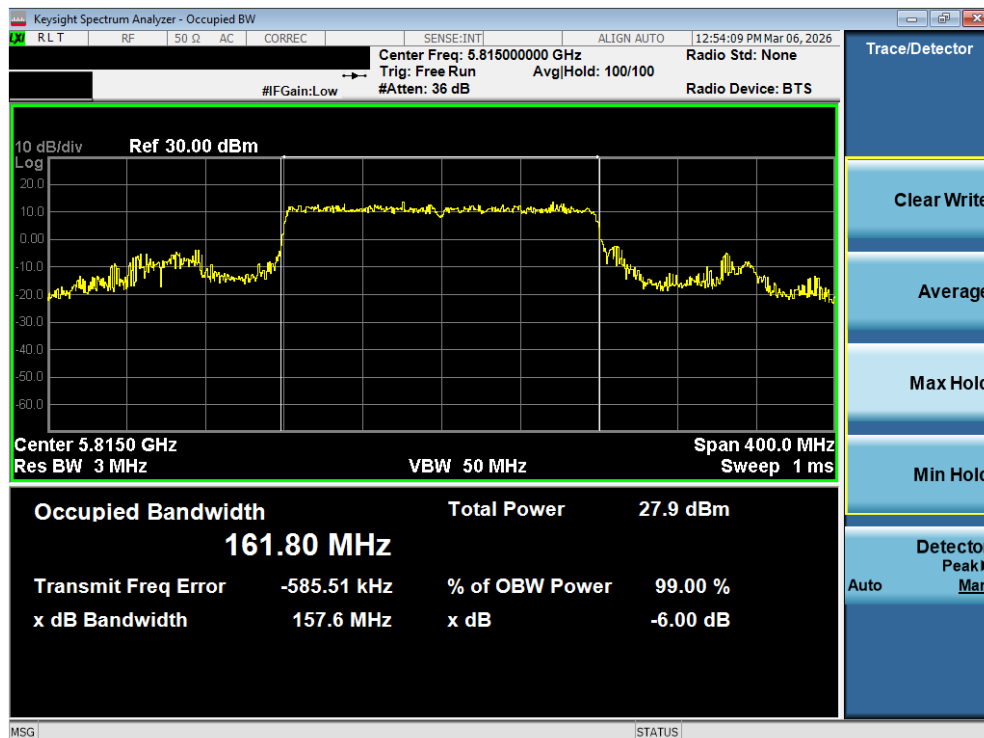


Plot 7-72. OBW Plot MIMO ANT1 (40MHz BW 802.11be – 484 Tones (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 64 of 172



Plot 7-73. OBW Plot MIMO ANT1 (80MHz BW 802.11be – 996 Tones (UNII Band 3/4) – Ch. 171)

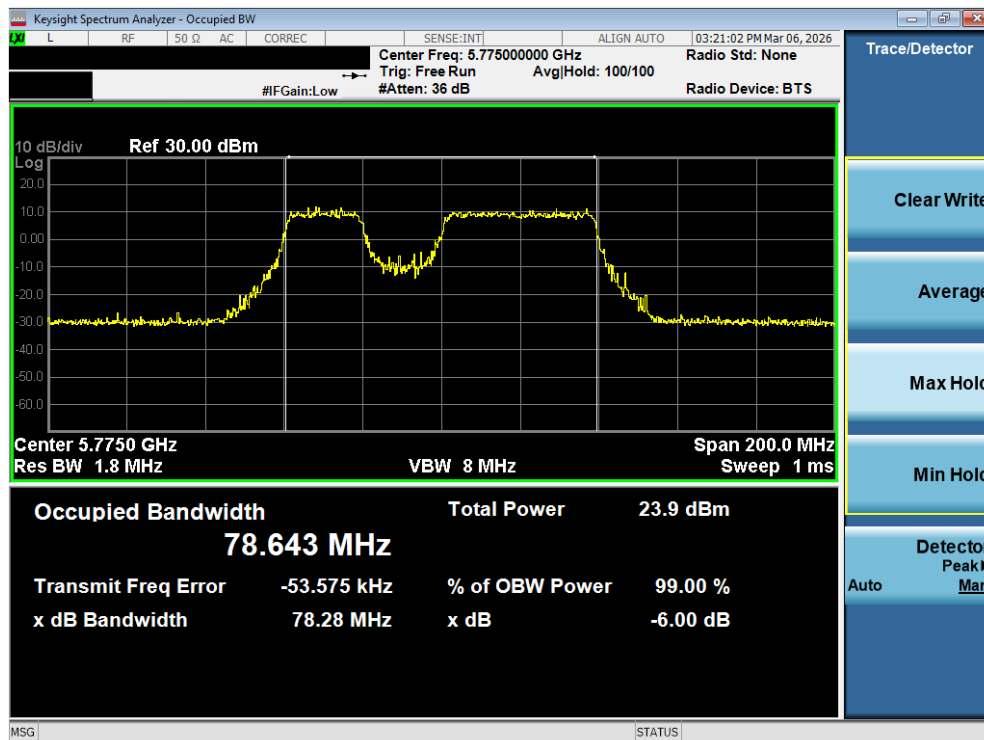


Plot 7-74. OBW Plot MIMO ANT1 (160MHz BW 802.11be – 996*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 65 of 172

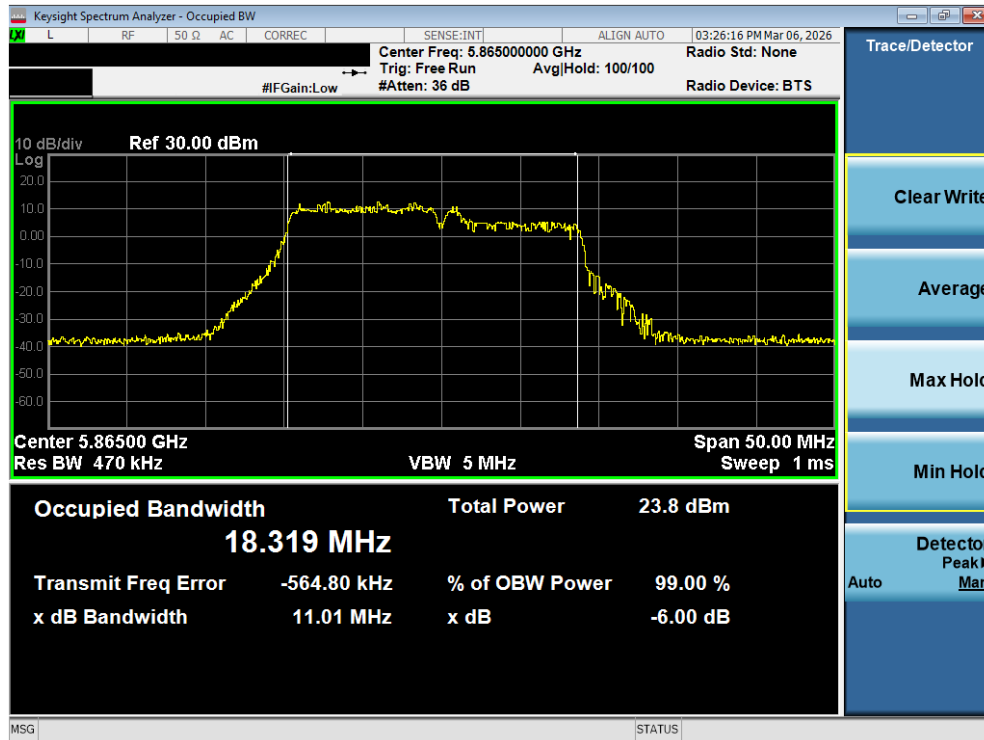


Plot 7-75. OBW Plot MIMO ANT1 (20MHz BW 802.11be – 106+26 Tones (UNII Band 3) – Ch. 157)

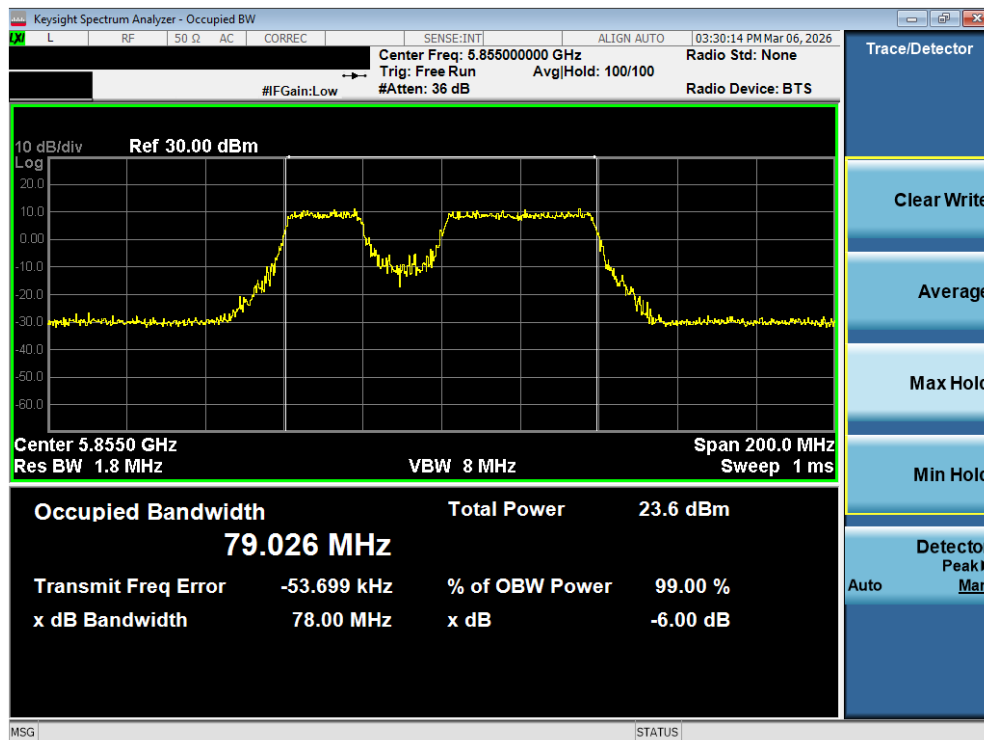


Plot 7-76. OBW Plot MIMO ANT1 (80MHz BW 802.11be – 484+242 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 66 of 172

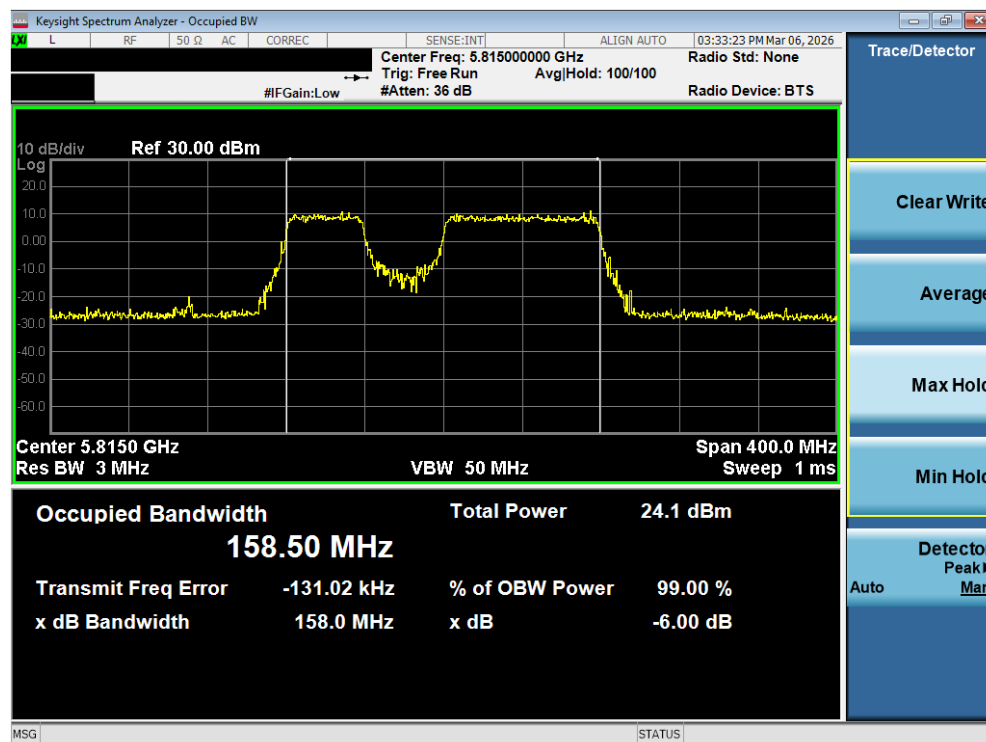


Plot 7-77. OBW Plot MIMO ANT1 (20MHz BW 802.11be – 106+26 Tones (UNII Band 4) – Ch. 173)



Plot 7-78. OBW Plot MIMO ANT1 (80MHz BW 802.11be – 484+242 Tones (UNII Band 3/4) – Ch. 171)

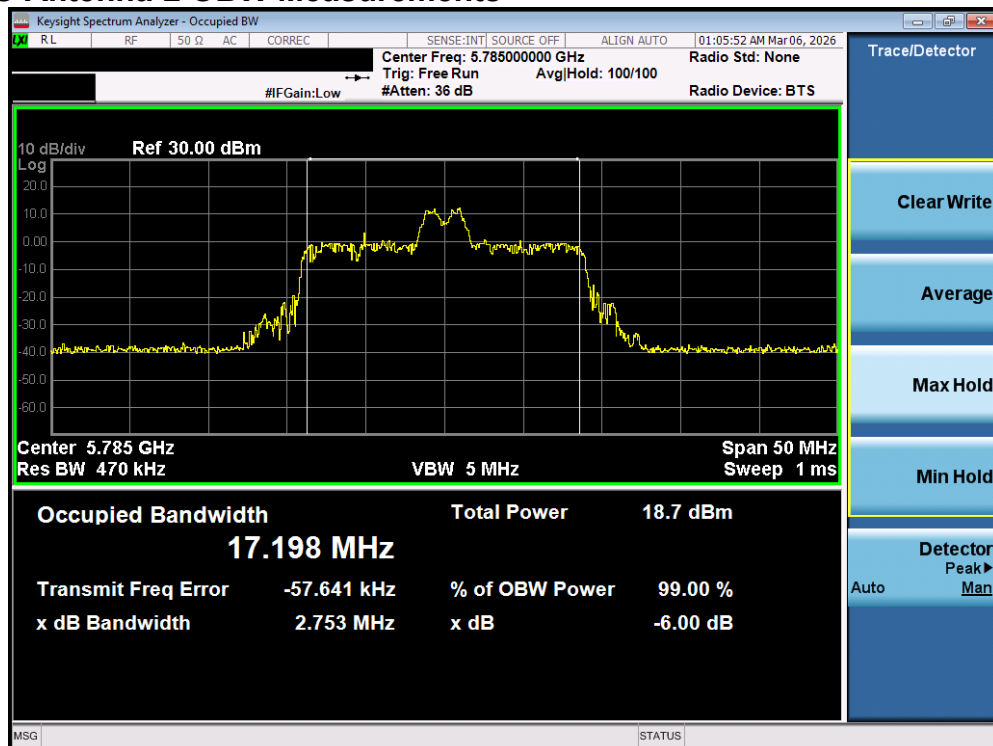
FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 67 of 172



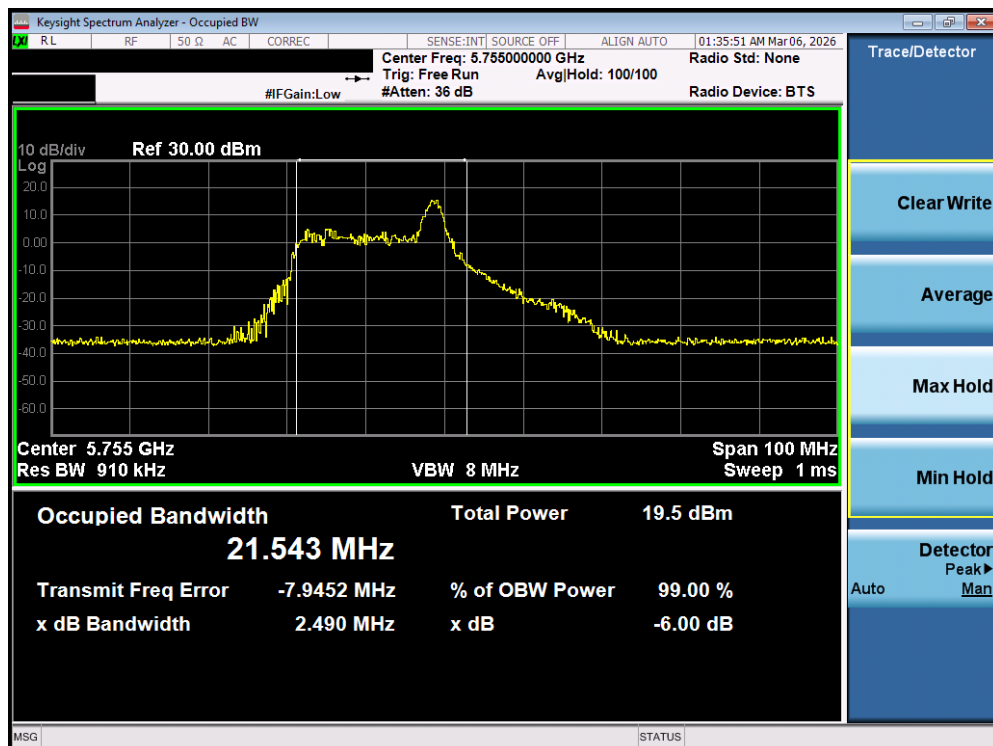
Plot 7-79. OBW Plot MIMO ANT1 (160MHz BW 802.11be – 996+484 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 68 of 172		

7.3.4 MIMO Antenna-2 OBW Measurements

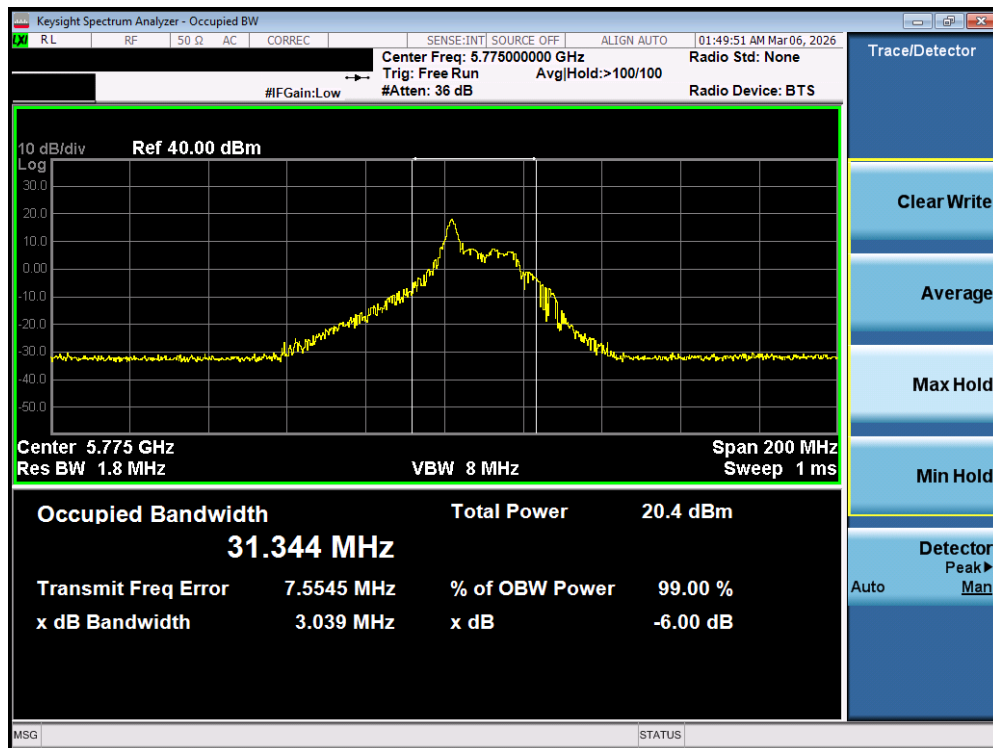


Plot 7-80. OBW Plot MIMO ANT2 (20MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 157)

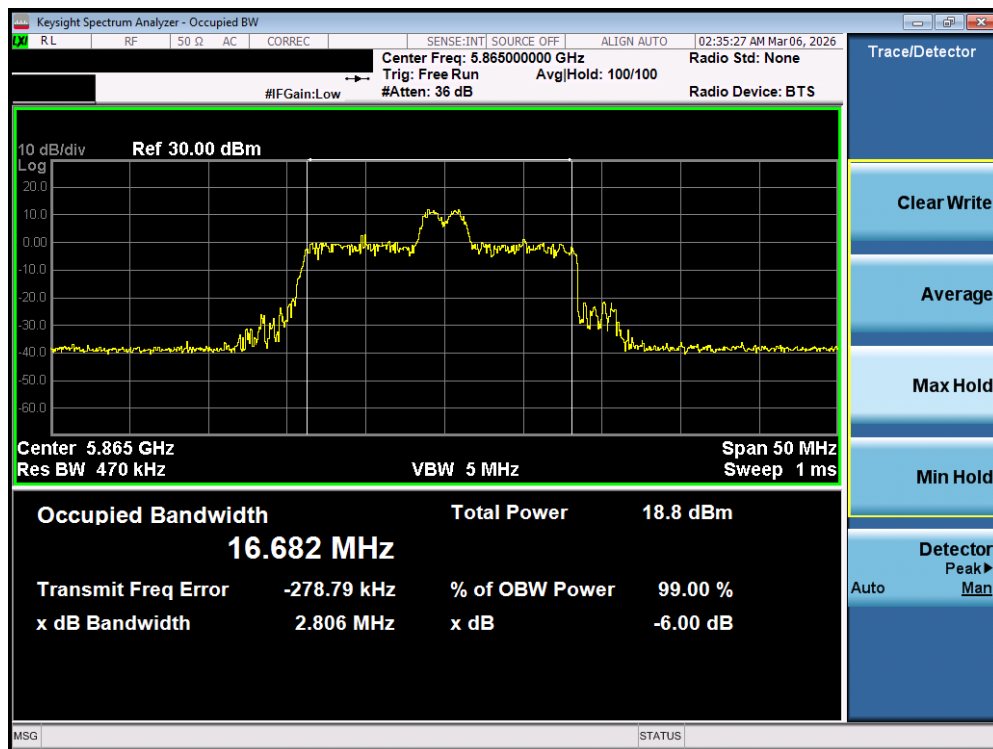


Plot 7-81. OBW Plot MIMO ANT2 (40MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 69 of 172



Plot 7-82. OBW Plot MIMO ANT2 (80MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 155)

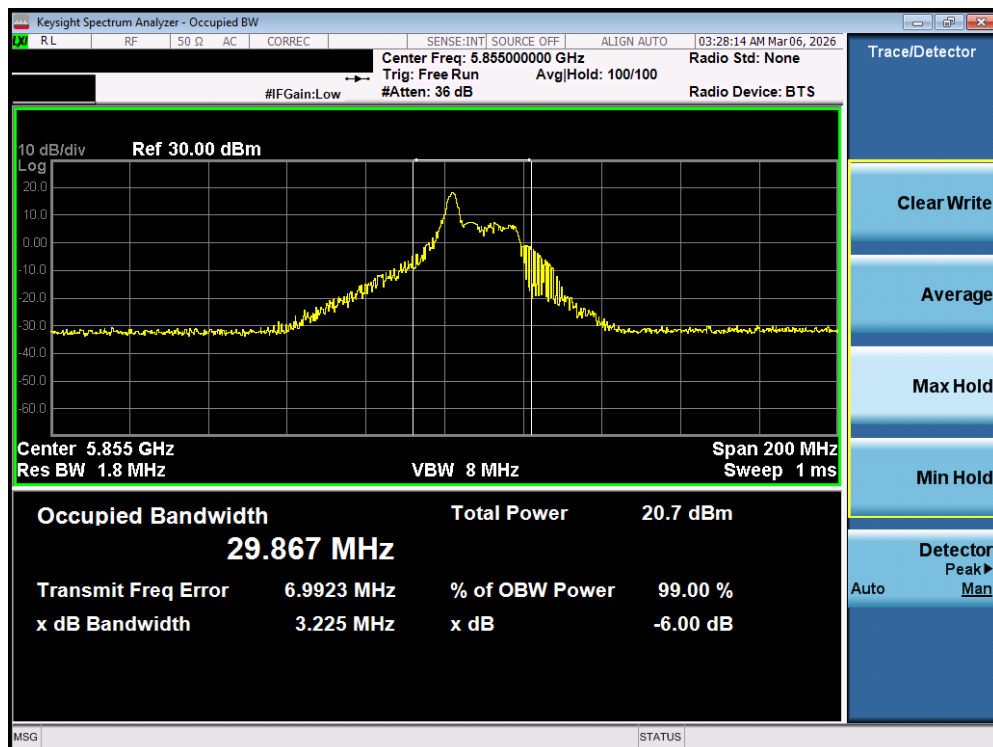


Plot 7-83. OBW Plot MIMO ANT2 (20MHz BW 802.11be – 26 Tones (UNII Band 4) – Ch. 173)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 70 of 172

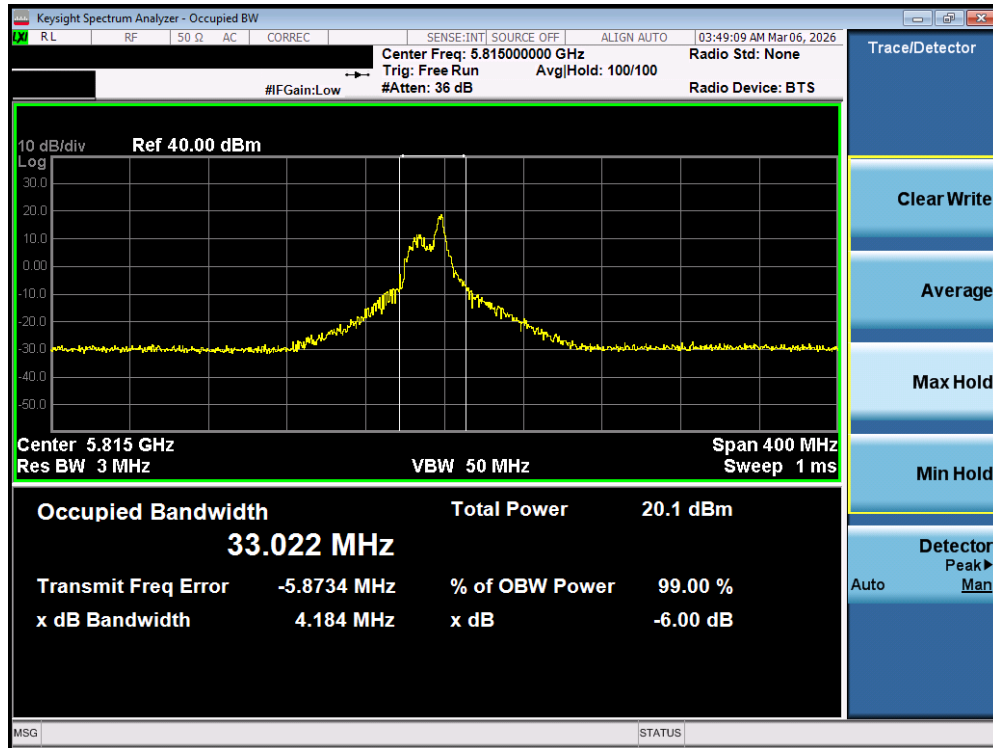


Plot 7-84. OBW Plot MIMO ANT2 (40MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 167)

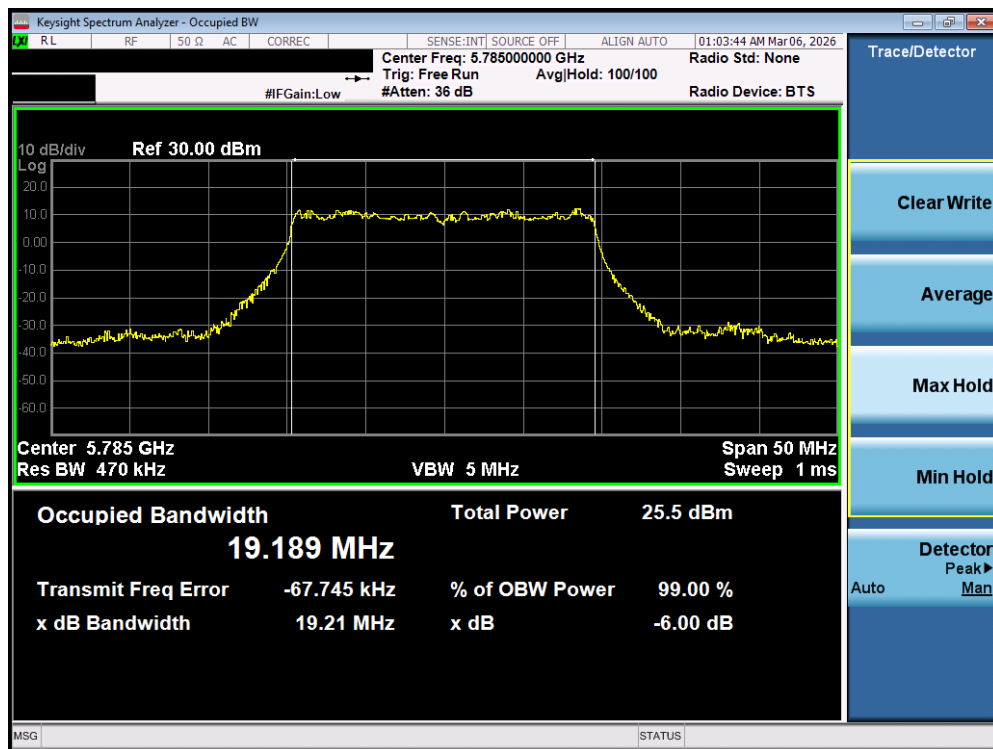


Plot 7-85. OBW Plot MIMO ANT2 (80MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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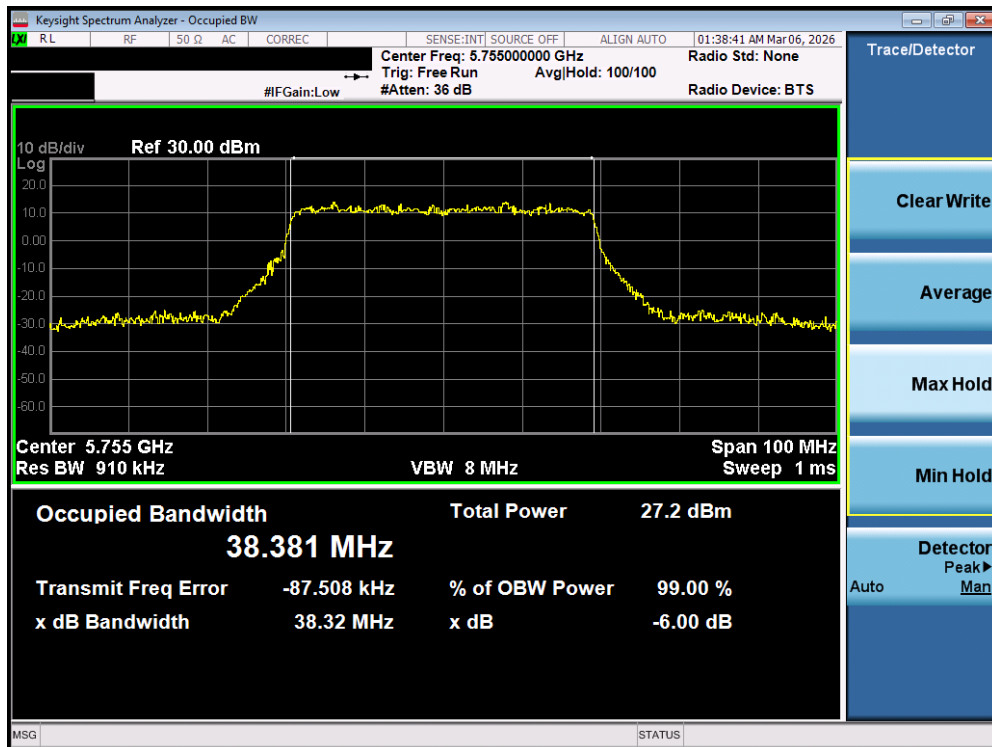


Plot 7-86. OBW Plot MIMO ANT2 (160MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 163)

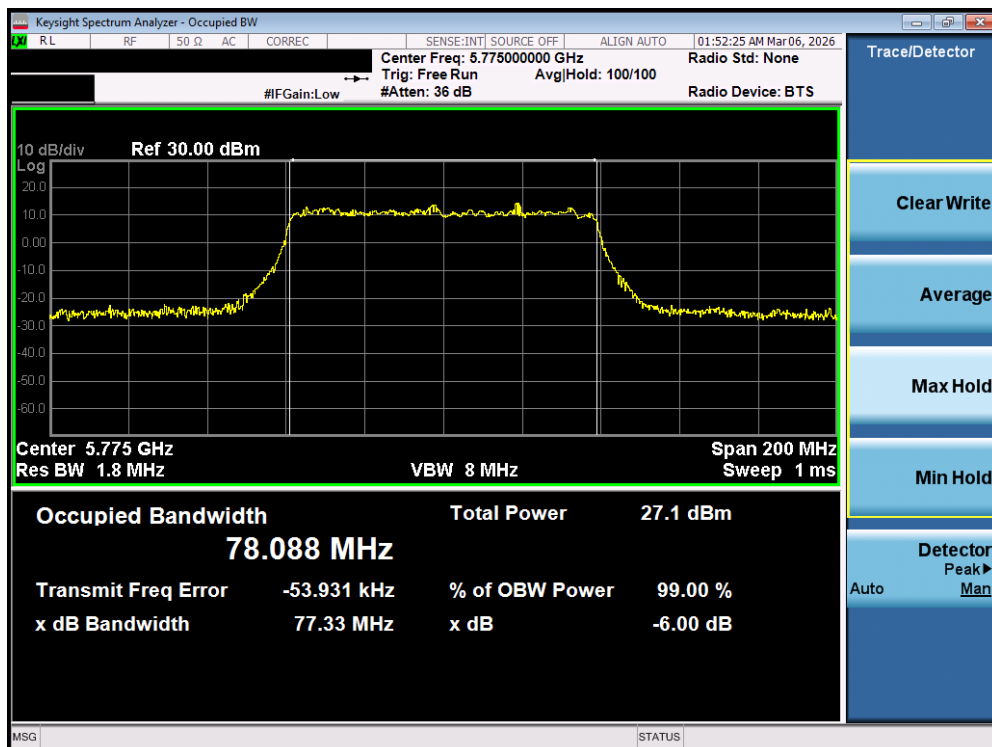


Plot 7-87. OBW Plot MIMO ANT2 (20MHz BW 802.11be – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 72 of 172

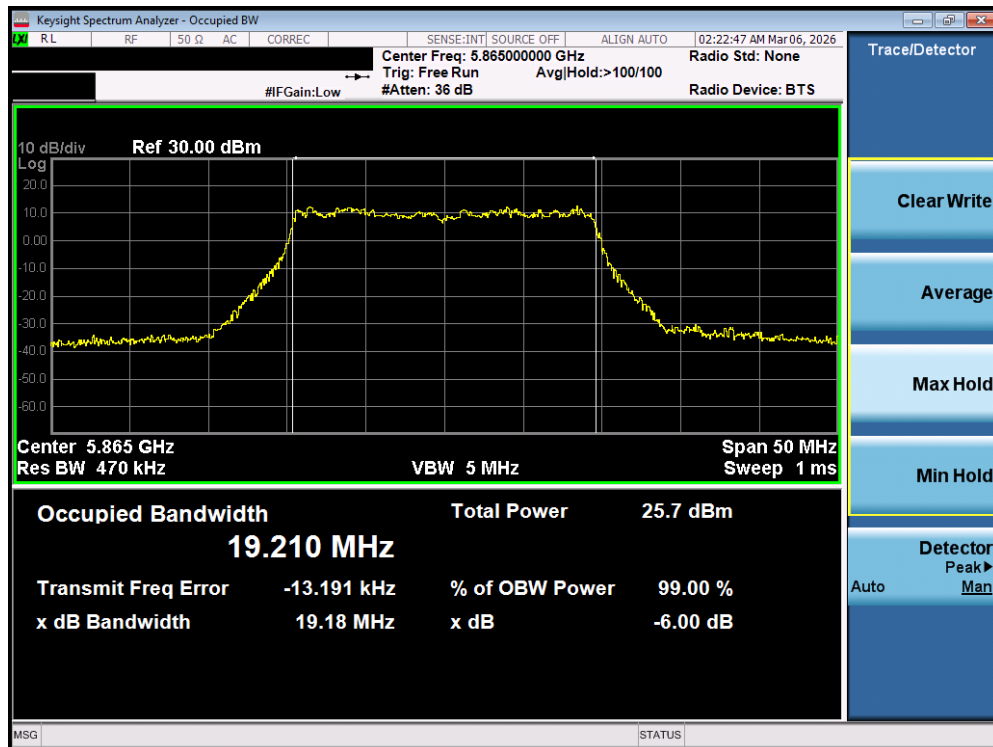


Plot 7-88. OBW Plot MIMO ANT2 (40MHz BW 802.11be – 484 Tones (UNII Band 3) – Ch. 151)

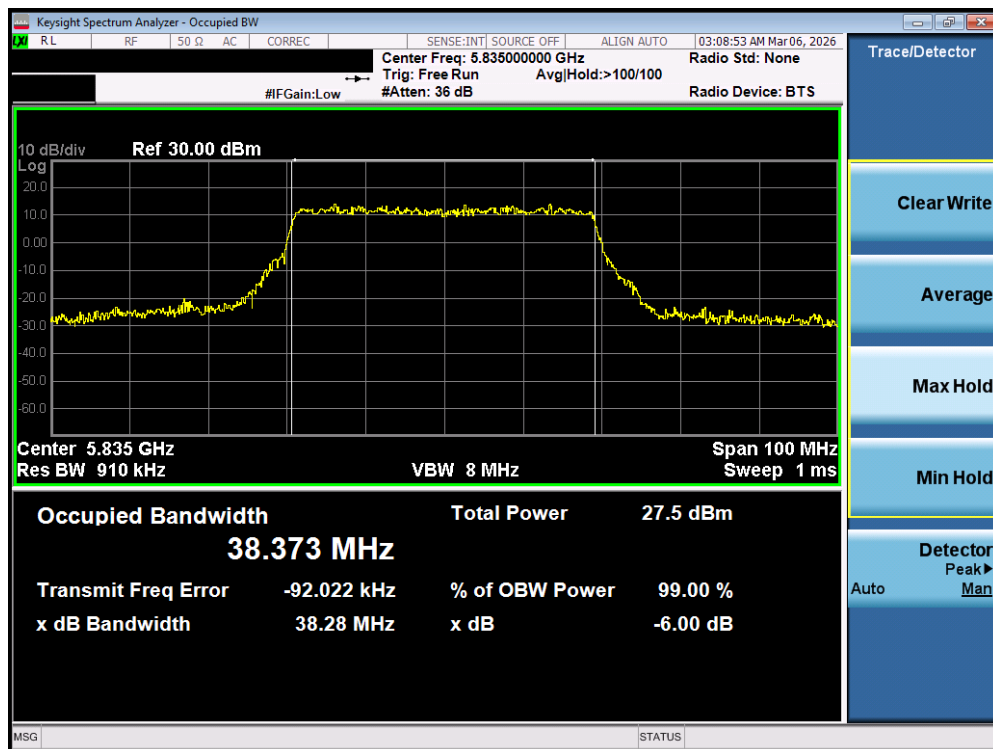


Plot 7-89. OBW Plot MIMO ANT2 (80MHz BW 802.11be – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 73 of 172

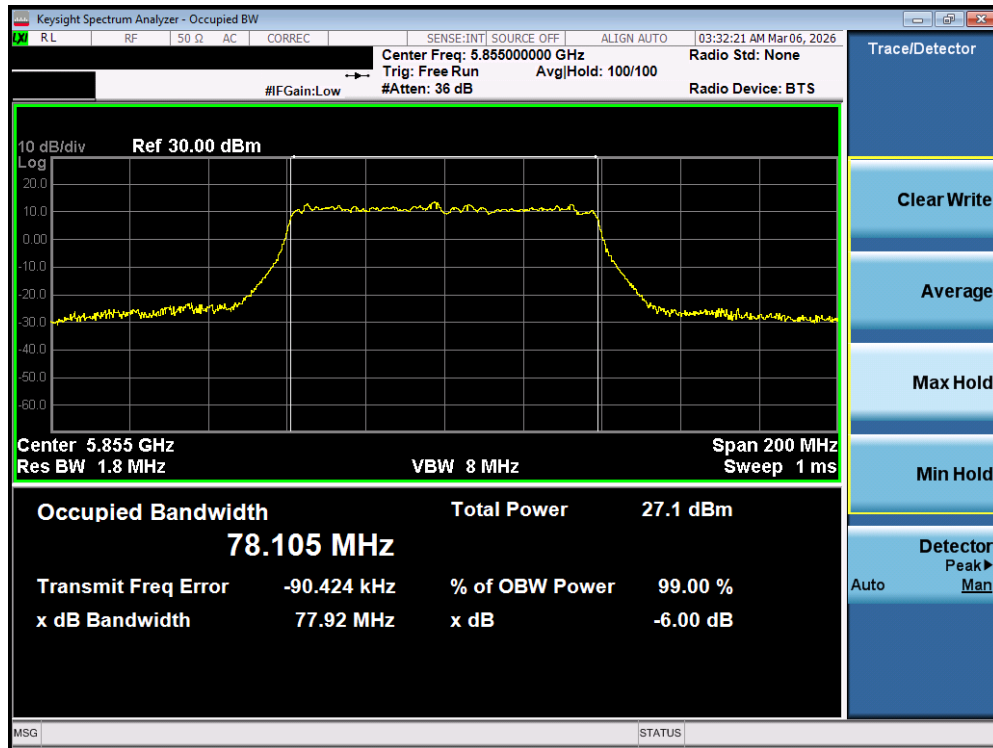


Plot 7-90. OBW Plot MIMO ANT2 (20MHz BW 802.11be – 242 Tones (UNII Band 4) – Ch. 173)



Plot 7-91. OBW Plot MIMO ANT2 (40MHz BW 802.11be – 484 Tones (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 74 of 172

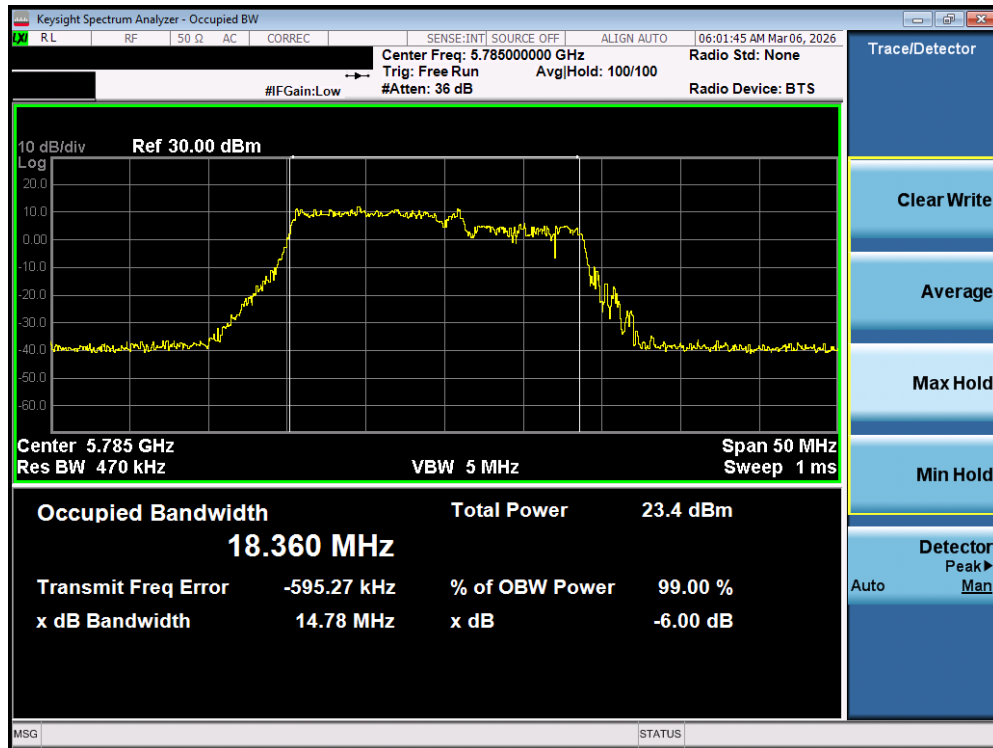


Plot 7-92. OBW Plot MIMO ANT2 (80MHz BW 802.11be – 996 Tones (UNII Band 3/4) – Ch. 171)

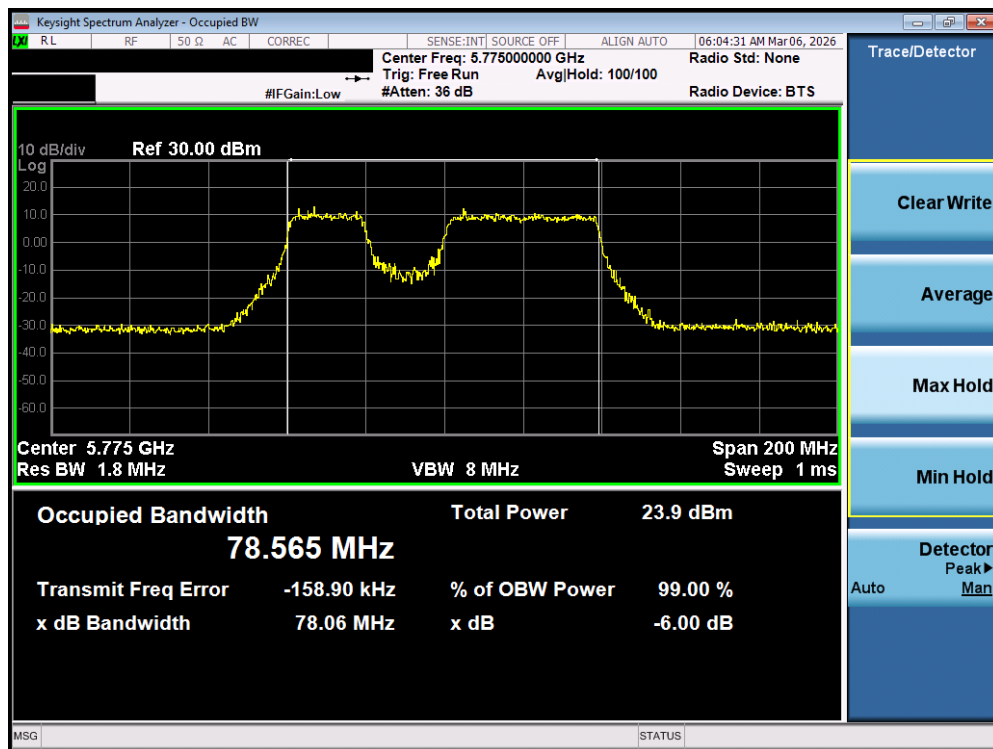


Plot 7-93. OBW Plot MIMO ANT2 (160MHz BW 802.11be – 996*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 75 of 172

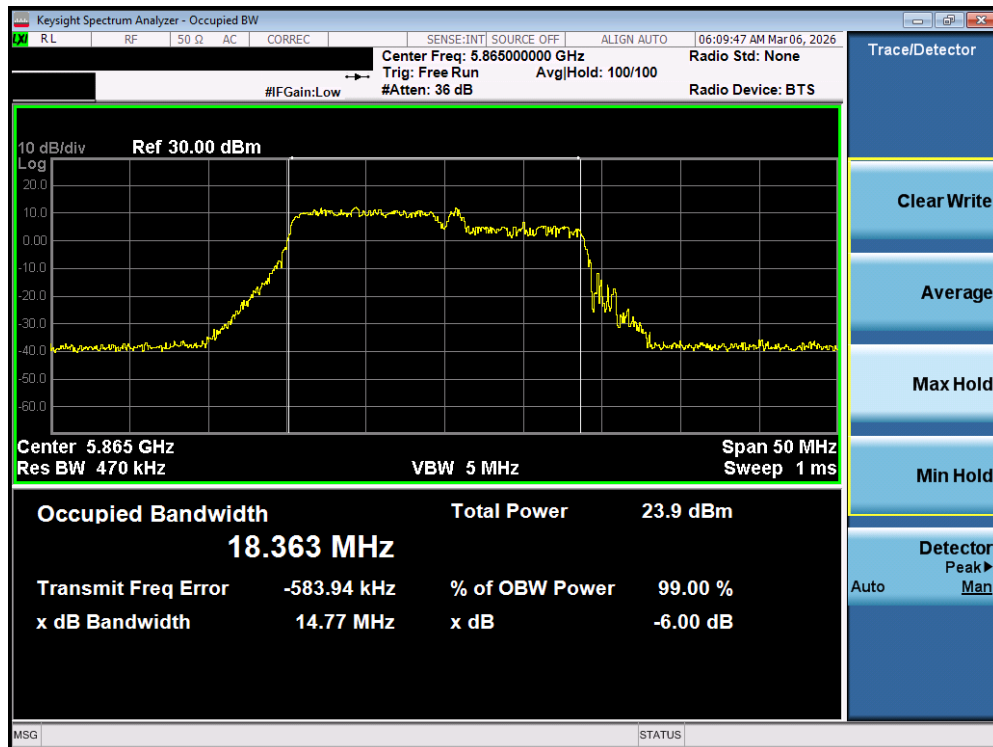


Plot 7-94. OBW Plot MIMO ANT2 (20MHz BW 802.11be – 106+26 Tones (UNII Band 3) – Ch. 157)

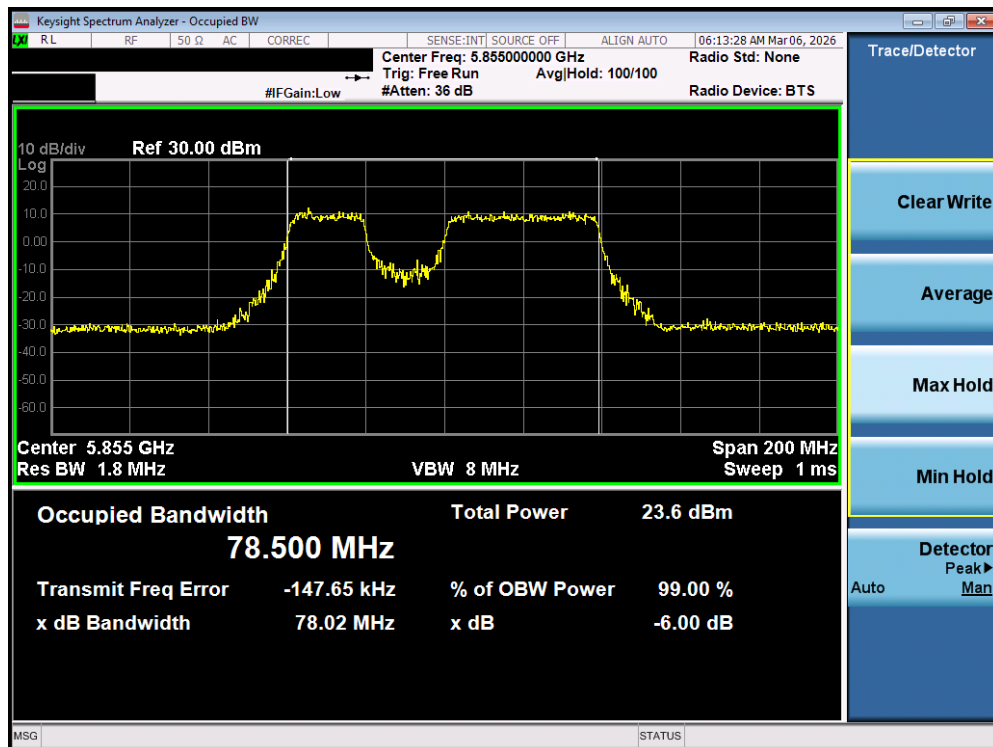


Plot 7-95. OBW Plot MIMO ANT2 (80MHz BW 802.11be – 484+242 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 76 of 172

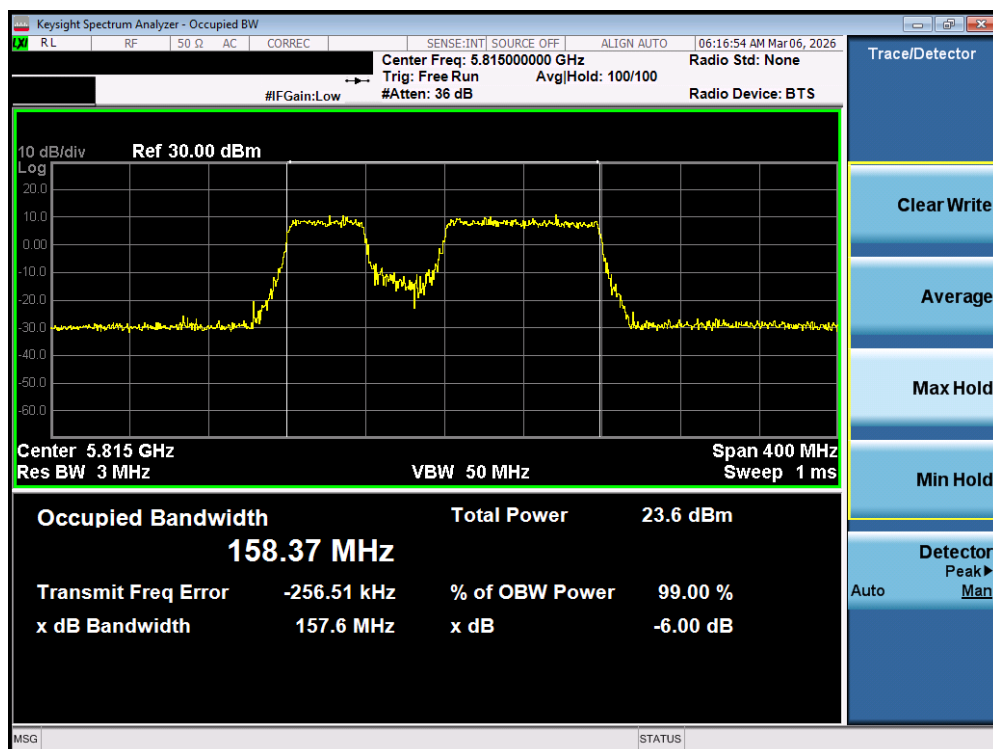


Plot 7-96. OBW Plot MIMO ANT2 (20MHz BW 802.11be – 106+26 Tones (UNII Band 4) – Ch. 173)



Plot 7-97. OBW Plot MIMO ANT2 (80MHz BW 802.11be – 484+242 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Plot 7-98. OBW Plot MIMO ANT2 (160MHz BW 802.11be – 996+484 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 78 of 172		

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)	

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.

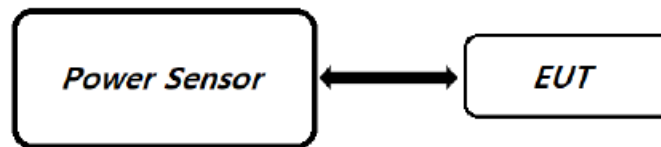


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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MIMO Conducted Output Power Measurements (26 Tones)

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)												Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index																	
					0			4			8											
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	2A	5180	36	26T	9.52	8.40	12.01	9.39	9.78	12.60	9.18	9.12	12.16	23.98	-11.38	-2.45	10.15	30.00	-19.85			
		5200	40	26T	9.99	9.30	12.67	9.86	9.00	12.46	9.18	9.15	12.18	23.98	-11.31	-2.45	10.21	30.00	-19.79			
		5240	48	26T	9.98	9.32	12.67	9.78	9.04	12.44	9.14	9.25	12.21	23.98	-11.31	-2.45	10.22	30.00	-19.78			
		5260	52	26T	9.99	8.49	12.09	9.89	9.02	12.49	9.28	9.19	12.25	23.98	-11.49	-2.10	10.39	30.00	-19.61			
		5280	56	26T	9.98	9.35	12.69	9.70	9.10	12.42	9.23	9.16	12.21	23.98	-11.29	-2.10	10.59	30.00	-19.41			
	2C	5320	64	26T	9.85	9.18	12.54	9.53	9.00	12.28	9.80	9.24	12.54	23.98	-11.44	-2.10	10.44	30.00	-19.56			
		5500	100	26T	9.66	9.20	12.45	9.87	9.66	12.78	9.80	9.19	12.52	23.98	-11.20	-2.62	10.16	30.00	-19.84			
		5600	120	26T	9.20	9.98	12.62	8.90	9.66	12.31	9.36	9.97	12.69	23.98	-11.29	-2.62	10.07	30.00	-19.93			
		5720	144	26T	9.60	9.43	12.53	9.25	9.09	12.18	9.75	9.48	12.63	23.98	-11.35	-2.62	10.01	30.00	-19.99			
		5745	149	26T	9.65	9.52	12.55	9.75	9.88	12.83	9.75	9.59	12.68	30.00	-17.17	-4.39	8.44	36.00	-27.56			
3	5785	157	26T	9.66	9.58	12.63	9.79	9.69	12.75	9.85	9.63	12.75	30.00	-17.25	-4.39	8.36	36.00	-27.64				
	5825	165	26T	9.89	9.56	12.74	9.86	9.56	12.72	9.86	9.58	12.73	30.00	-17.26	-4.39	8.35	36.00	-27.65				
4	5845	169	26T	9.82	9.45	12.65	9.80	9.50	12.66	9.89	9.44	12.68	-	-	-4.39	8.29	30.00	-21.71				
	5865	173	26T	9.80	9.36	12.60	9.90	9.47	12.70	9.88	9.44	12.68	-	-	-4.39	8.31	30.00	-21.69				
	5885	177	26T	9.65	9.42	12.55	9.96	9.58	12.78	9.66	9.45	12.57	-	-	-4.39	8.40	30.00	-21.60				

Table 7-10. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 80 of 172

MIMO Conducted Output Power Measurements (52 Tones)

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)												Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index																	
					37			39			40											
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
		5180	36	52T	12.01	12.56	15.30	12.47	12.99	15.75	12.29	12.69	15.50	23.98	-8.23	-2.45	13.29	30.00	-16.71			
		5200	40	52T	12.00	12.56	15.30	12.30	12.56	15.44	12.20	12.69	15.46	23.98	-8.52	-2.45	13.01	30.00	-16.99			
		5207	48	52T	12.15	12.60	15.44	12.08	12.51	15.31	12.36	12.79	15.59	23.98	-8.39	-2.45	13.14	30.00	-16.86			
		5208	52	52T	12.59	12.30	15.46	12.53	12.12	15.34	12.34	12.77	15.57	23.98	-8.41	-2.10	13.47	30.00	-16.53			
	2A	5280	56	52T	12.06	12.79	15.45	12.00	12.59	15.32	12.26	12.78	15.54	23.98	-8.44	-2.10	13.44	30.00	-16.56			
		5320	64	52T	12.00	12.65	15.35	12.26	12.99	15.65	12.02	12.69	15.38	23.98	-8.33	-2.10	13.55	30.00	-16.45			
		5900	100	52T	12.10	12.11	15.12	12.45	12.42	15.45	12.78	12.63	15.72	23.98	-8.26	-2.62	13.10	30.00	-16.90			
	2C	5600	120	52T	12.10	12.68	15.41	12.10	12.58	15.36	12.00	12.70	15.37	23.98	-8.57	-2.62	12.79	30.00	-17.21			
		5720	140	52T	12.49	12.42	15.47	12.80	12.88	15.85	12.54	12.56	15.56	23.98	-8.13	-2.62	13.23	30.00	-16.77			
		5743	149	52T	12.55	12.80	15.69	12.40	12.64	15.53	15.67	12.86	15.77	30.00	-14.23	-4.39	11.39	36.00	-24.61			
	3	5785	157	52T	12.65	12.70	15.69	12.56	12.44	15.51	12.73	12.69	15.72	30.00	-14.28	-4.39	11.33	36.00	-24.67			
		5825	165	52T	12.69	12.50	15.61	12.99	12.96	15.99	12.78	12.60	15.70	30.00	-14.01	-4.39	11.60	36.00	-24.40			
		5845	169	52T	12.69	12.49	15.60	12.53	12.25	15.40	12.78	12.46	15.63	-	-	-4.39	11.24	30.00	-18.76			
	4	5865	173	52T	12.69	12.45	15.58	12.60	12.25	15.44	12.77	12.50	15.65	-	-	-4.39	11.26	30.00	-18.74			
		5885	177	52T	12.60	12.33	15.48	12.90	12.69	15.81	12.60	12.36	15.49	-	-	-4.39	11.42	30.00	-18.58			

Table 7-11. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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MIMO Conducted Output Power Measurements (106 Tones)

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index											
					S3			S4								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	2A	5180	36	106T	15.20	15.54	18.38	15.28	15.60	18.45	23.98	-5.53	-2.45	16.00	30.00	-14.00
		5200	40	106T	15.10	15.55	18.34	15.28	15.69	18.50	23.98	-5.48	-2.45	16.05	30.00	-13.95
		5240	48	106T	15.30	15.65	18.49	15.36	15.69	18.54	23.98	-5.44	-2.45	16.08	30.00	-13.92
		5260	52	106T	15.10	15.70	18.42	15.28	15.79	18.55	23.98	-5.43	-2.10	16.45	30.00	-13.55
		5280	56	106T	15.11	15.75	18.45	15.25	15.72	18.50	23.98	-5.48	-2.10	16.40	30.00	-13.60
2C	5320	64	106T	15.36	15.69	18.54	15.49	15.56	18.54	23.98	-5.44	-2.10	16.44	30.00	-13.56	
	5500	100	106T	15.56	15.15	18.37	15.65	15.15	18.42	23.98	-5.56	-2.62	15.80	30.00	-14.20	
	5600	120	106T	15.00	15.62	18.33	15.09	15.69	18.41	23.98	-5.57	-2.62	15.79	30.00	-14.21	
	5720	144	106T	15.29	15.39	18.35	15.36	15.45	18.42	23.98	-5.56	-2.62	15.80	30.00	-14.20	
	5745	149	106T	15.90	15.85	18.89	15.99	15.96	18.99	30.00	-11.01	-4.39	14.60	36.00	-21.40	
3	5785	157	106T	15.99	15.85	18.93	15.56	15.28	18.43	30.00	-11.07	-4.39	14.54	36.00	-21.46	
	5825	165	106T	15.99	15.67	18.84	15.56	15.12	18.36	30.00	-11.16	-4.39	14.45	36.00	-21.55	
	5845	169	106T	15.98	15.56	18.79	15.56	14.95	18.28	-	-	-4.39	14.40	30.00	-15.60	
4	5865	173	106T	15.56	15.00	18.30	15.58	15.49	18.55	-	-	-4.39	14.16	30.00	-15.84	
	5885	177	106T	15.90	15.69	18.81	15.98	15.72	18.86	-	-	-4.39	14.47	30.00	-15.53	

Table 7-12. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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MIMO Conducted Output Power Measurements (242 Tones)

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index								
					61								
					ANT1	ANT2	MIMO						
	1	5180	36	242T	16.70	16.99	19.86	23.98	-4.12	-2.45	17.40	30.00	-12.60
		5200	40	242T	17.49	17.87	20.69	23.98	-3.29	-2.45	18.24	30.00	-11.76
		5240	48	242T	17.65	17.95	20.81	23.98	-3.17	-2.45	18.36	30.00	-11.64
	2A	5260	52	242T	17.65	17.98	20.83	23.98	-3.15	-2.10	18.73	30.00	-11.27
		5280	56	242T	17.59	17.96	20.79	23.98	-3.19	-2.10	18.69	30.00	-11.31
		5320	64	242T	17.39	17.85	20.64	23.98	-3.34	-2.10	18.53	30.00	-11.47
	2C	5500	100	242T	17.44	17.15	20.31	23.98	-3.67	-2.62	17.69	30.00	-12.31
		5600	120	242T	17.00	17.63	20.34	23.98	-3.64	-2.62	17.72	30.00	-12.28
		5720	144	242T	17.29	17.15	20.23	23.98	-3.75	-2.62	17.61	30.00	-12.39
	3	5745	149	242T	17.75	17.79	20.78	30.00	-9.22	-4.39	16.39	36.00	-19.61
		5785	157	242T	17.90	17.55	20.74	30.00	-9.26	-4.39	16.35	36.00	-19.65
		5825	165	242T	17.89	17.46	20.69	30.00	-9.31	-4.39	16.30	36.00	-19.70
	4	5845	169	242T	17.90	17.42	20.68	-	-	-4.39	16.29	30.00	-13.71
		5865	173	242T	17.93	17.43	20.70	-	-	-4.39	16.31	30.00	-13.69
		5885	177	242T	17.85	17.42	20.65	-	-	-4.39	16.26	30.00	-13.74

Table 7-13. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)		Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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MIMO Conducted Output Power Measurements (484 Tones)

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index								
					65								
					ANT1	ANT2	MIMO						
1	5190	38	484T	14.63	14.99	17.82	23.98	-6.16	-2.45	15.37	30.00	-14.63	
		46	484T	17.52	17.88	20.71	23.98	-3.27	-2.45	18.26	30.00	-11.74	
	5270	54	484T	17.46	17.97	20.73	23.98	-3.25	-2.10	18.63	30.00	-11.37	
		62	484T	17.16	17.89	20.55	23.98	-3.43	-2.10	18.45	30.00	-11.55	
	5510	102	484T	17.00	17.45	20.24	23.98	-3.74	-2.62	17.62	30.00	-12.38	
		118	484T	17.38	17.99	20.71	23.98	-3.27	-2.62	18.09	30.00	-11.91	
		142	484T	17.52	17.95	20.75	23.98	-3.23	-2.62	18.13	30.00	-11.87	
	5755	151	484T	17.83	17.80	20.83	30.00	-9.17	-4.39	16.44	36.00	-19.56	
		159	484T	17.85	17.49	20.68	30.00	-9.32	-4.39	16.29	36.00	-19.71	
	5835	167	484T	17.83	17.40	20.63	-	-	-4.39	16.24	30.00	-13.76	
		175	484T	17.79	17.42	20.62	-	-	-4.39	16.23	30.00	-13.77	

Table 7-14. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 84 of 172

MIMO Conducted Output Power Measurements (996 Tones)

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index								
					67								
					ANT1	ANT2	MIMO						
	1	5210	42	996T	14.26	14.50	17.39	23.98	-6.59	-2.45	14.94	30.00	-15.06
	2A	5290	58	996T	17.00	17.50	20.27	23.98	-3.71	-2.10	18.17	30.00	-11.83
	2C	5530	106	996T	16.02	16.98	19.54	23.98	-4.44	-2.62	16.92	30.00	-13.08
		5610	122	996T	17.10	17.55	20.34	23.98	-3.64	-2.62	17.72	30.00	-12.28
		5690	138	996T	17.26	17.55	20.42	23.98	-3.56	-2.62	17.80	30.00	-12.20
	3	5775	155	996T	17.53	17.47	20.51	30.00	-9.49	-4.39	16.12	36.00	-19.88
	4	5855	171	996T	17.68	17.05	20.39	-	-	-4.39	16.00	30.00	-14.00

Table 7-15. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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MIMO Conducted Output Power Measurements (2x996 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index								
					68								
					ANT1	ANT2	MIMO						
1/2A	5260	52	2x996T	15.86	15.92	18.90	23.98	-5.08	-2.45	16.45	30.00	-13.55	
2C	5580	116	2x996T	17.00	17.95	20.51	23.98	-3.47	-2.62	17.89	30.00	-12.11	
3/4	5815	163	2x996T	17.10	16.90	20.01	-	-	-4.39	15.62	30.00	-14.38	

Table 7-16. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (2x996 Tones)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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MIMO Conducted Output Power Measurements (MRU)

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					MRU Index														
					70			71			72								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5200	40	52+26T	12.03	12.05	15.31	12.35	12.99	15.69	12.00	12.50	15.27	23.98	-8.29	-2.45	13.24	30.00	-16.76	
2A	5280	56	52+26T	12.00	12.69	15.37	11.91	12.90	15.44	12.05	12.67	15.38	23.98	-8.54	-2.10	13.34	30.00	-16.66	
2C	5600	120	52+26T	12.20	12.60	15.41	11.46	12.56	15.06	11.63	12.59	15.15	23.98	-8.57	-2.62	12.79	30.00	-17.21	
3	5785	157	52+26T	12.53	12.48	15.52	12.45	12.39	15.43	12.58	12.56	15.58	30.00	-14.42	-4.39	11.19	36.00	-24.81	
4	5865	173	52+26T	12.59	12.36	15.49	12.52	12.19	15.37	12.62	12.39	15.52	-	-	-4.39	11.13	30.00	-18.87	

Table 7-17. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52+26 Tones)

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					MRU Index											
					82			83								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5200	40	106+26T	15.58	15.99	18.80	15.16	15.56	18.37	23.98	-5.18	-2.45	16.35	30.00	-13.65	
2A	5280	56	106+26T	15.53	15.99	18.78	15.17	15.69	18.45	23.98	-5.20	-2.10	16.67	30.00	-13.33	
2C	5600	120	106+26T	15.00	15.53	18.28	15.01	15.59	18.32	23.98	-5.66	-2.62	15.70	30.00	-14.30	
3	5785	157	106+26T	15.95	15.77	18.87	15.99	15.75	18.88	30.00	-11.12	-4.39	14.49	36.00	-21.51	
4	5865	173	106+26T	15.97	15.47	18.74	15.45	15.00	18.24	-	-	-4.39	14.35	30.00	-15.65	

Table 7-18. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106+26 Tones)

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dbm)												Conducted Power Limit [dbm]	Conducted Power Margin [db]	Dir. Ant. Gain [db]	Max e.i.r.p [dbm]	e.i.r.p Limit [dbm]	e.i.r.p Margin [db]
					MRU Index																	
					90			91			92			93								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5210	42	484+242T	14.21	14.77	17.51	14.25	14.75	17.52	14.28	14.75	17.53	23.98	-6.45	-2.45	15.08	30.00	-14.92				
2A	5290	58	484+242T	17.40	17.88	20.66	17.30	17.70	20.51	17.47	17.85	20.67	23.98	-3.31	-2.10	18.57	30.00	-11.43				
2C	5530	106	484+242T	17.00	17.99	20.53	17.02	17.91	20.50	16.99	17.98	20.48	23.98	-3.45	-2.62	17.91	30.00	-12.09				
	5610	122	484+242T	17.05	17.46	20.27	17.20	17.85	20.55	17.15	17.98	20.60	23.98	-3.38	-2.62	17.97	30.00	-12.03				
	5690	138	484+242T	17.00	17.75	20.40	17.32	17.96	20.66	17.33	17.99	20.68	23.98	-3.30	-2.62	18.06	30.00	-11.94				
3	5775	155	484+242T	17.45	17.50	20.49	17.65	17.95	20.81	17.65	17.95	20.83	30.00	-9.17	-4.39	16.44	36.00	-19.56				
4	5855	171	484+242T	17.50	17.15	20.34	17.85	17.50	20.69	17.85	17.59	20.73	-	-	-4.39	16.34	30.00	-13.66				

Table 7-19. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (484+242 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)												Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					MRU Index																	
					94			95			1095											
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1/2A	5250	50	996+484T	14.06	14.48	17.29	14.33	14.55	17.45	14.51	14.75	17.64	23.98	-6.34	-2.45	15.19	30.00	-14.81				
2C	5580	116	996+484T	17.01	17.69	20.37	17.02	17.80	20.44	17.00	17.99	20.53	23.98	-3.45	-2.62	17.91	30.00	-12.09				
3/4	5815	163	996+484T	17.75	17.44	20.61	17.45	17.18	20.33	17.55	17.45	20.51	-	-	-4.39	16.22	30.00	-13.78				

Table 7-20. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (996+484 Tones)

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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 802.11ax (20MHz BW – 26 Tones) mode, the average conducted output power was measured to be 9.39 dBm for Antenna 1 and 9.78 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(9.39 \text{ dBm} + 9.78 \text{ dBm}) = (8.690 \text{ mW} + 9.506 \text{ mW}) = 18.196 \text{ mW} = 12.60 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW – 26 Tones) mode, the average MIMO conducted power was calculated to be 12.60 dBm with directional gain of -2.45 dBi.

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

$$12.60 \text{ dBm} + -2.45 \text{ dBi} = 10.15 \text{ dBm}$$

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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 12.4.2.4 (Method SA-2)

ANSI C63.10:2020 – Section 14.5.2.2 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 $\geq 2 \times (\text{span/RBW})$
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

Test Notes

The power spectral density for each channel was measured with the RU index showing the highest conducted power.

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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dB]	Conducted PSD Limit [dBm]	Margin [dB]
Band 1	5180	be (20MHz)	36	5.38	5.46	8.43	11.00	-2.57
	5200	be (20MHz)	40	5.16	5.70	8.45	11.00	-2.55
	5240	be (20MHz)	48	5.86	5.90	8.89	11.00	-2.11
	5190	be (40MHz)	38	7.01	7.53	10.29	11.00	-0.71
	5230	be (40MHz)	46	7.21	7.27	10.25	11.00	-0.75
	5210	be (80MHz)	42	7.00	6.64	9.83	11.00	-1.17
Band 1/2A	5250	be (160MHz)	50	6.89	6.94	9.93	11.00	-1.07
Band 2A	5260	be (20MHz)	52	5.83	6.28	9.07	11.00	-1.93
	5280	be (20MHz)	56	5.83	6.19	9.02	11.00	-1.98
	5320	be (20MHz)	64	6.12	6.84	9.50	11.00	-1.50
	5270	be (40MHz)	54	6.98	6.99	9.99	11.00	-1.01
	5310	be (40MHz)	62	7.17	7.08	10.13	11.00	-0.87
	5290	be (80MHz)	58	6.64	6.96	9.81	11.00	-1.19
Band 2C	5500	be (20MHz)	100	4.61	5.46	8.07	11.00	-2.93
	5600	be (20MHz)	120	4.22	5.76	8.07	11.00	-2.93
	5720	be (20MHz)	144	5.88	6.79	9.37	11.00	-1.63
	5510	be (40MHz)	102	5.87	6.62	9.27	11.00	-1.73
	5590	be (40MHz)	118	6.49	7.07	9.80	11.00	-1.20
	5710	be (40MHz)	142	7.53	7.63	10.59	11.00	-0.41
	5530	be (80MHz)	106	6.19	6.36	9.29	11.00	-1.71
	5610	be (80MHz)	122	6.12	7.07	9.63	11.00	-1.37
	5690	be (80MHz)	138	6.56	7.21	9.91	11.00	-1.09
	5570	be (160MHz)	114	6.39	5.51	8.98	11.00	-2.02

Table 7-21. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dB]	Directional Antenna Gain [dBi]	MIMO EIRP PSD [dBm]	Max PSD [dBm]	Margin [dB]
Band 1	5180	be (20MHz)	36	5.38	5.46	8.43	-2.45	5.98	10.00	-4.02
	5200	be (20MHz)	40	5.16	5.70	8.45	-2.45	5.99	10.00	-4.01
	5240	be (20MHz)	48	5.86	5.90	8.89	-2.45	6.44	10.00	-3.56
	5190	be (40MHz)	38	7.01	7.53	10.29	-2.45	7.83	10.00	-2.17
	5230	be (40MHz)	46	7.21	7.27	10.25	-2.45	7.80	10.00	-2.20
	5210	be (80MHz)	42	7.00	6.64	9.83	-2.45	7.38	10.00	-2.62
Band 1/2A	5250	be (160MHz)	50	6.89	6.94	9.93	-2.45	7.47	10.00	-2.53

Table 7-22. Bands 1 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones) (ISED only)

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	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dB]	Conducted PSD Limit [dBm]	Margin [dB]
Band 3	5745	be (20MHz)	149	4.38	3.57	7.00	30.00	-23.00
	5785	be (20MHz)	157	4.05	3.75	6.91	30.00	-23.09
	5825	be (20MHz)	165	3.78	3.60	6.70	30.00	-23.30
	5755	be (40MHz)	151	4.33	4.17	7.26	30.00	-22.74
	5795	be (40MHz)	159	4.23	4.14	7.19	30.00	-22.81
	5775	be (80MHz)	155	4.31	4.10	7.21	30.00	-22.79

Table 7-23. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dB]	Directional Antenna Gain [dBi]	MIMO EIRP PSD [dBm]	EIRP PSD Limit[dBm]	Margin [dB]
Band 3/4	5845	be (20MHz)	169	5.64	5.61	8.64	-4.39	4.25	14.00	-9.75
Band 4	5865	be (20MHz)	173	5.79	5.67	8.74	-4.39	4.35	14.00	-9.65
	5885	be (20MHz)	177	5.19	5.35	8.28	-4.39	3.89	14.00	-10.11
Band 3/4	5835	be (40MHz)	167	7.35	6.71	10.05	-4.39	5.66	14.00	-8.34
Band 4	5875	be (40MHz)	175	7.04	6.73	9.90	-4.39	5.51	14.00	-8.49
Band 3/4	5855	be (80MHz)	171	6.71	6.68	9.71	-4.39	5.32	14.00	-8.68
Band 4	5815	be (160MHz)	163	6.55	6.42	9.49	-4.39	5.11	14.00	-8.89

Table 7-24. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	DCCF [dB]	MIMO PSD [dB]	Conducted PSD Limit [dBm]	Margin [dB]
Band 1	5180	be (20MHz)	36	5.21	5.73	0.16	8.65	11.00	-2.35
	5200	be (20MHz)	40	5.38	5.78	0.16	8.76	11.00	-2.24
	5240	be (20MHz)	48	5.55	5.59	0.16	8.74	11.00	-2.26
	5190	be (40MHz)	38	1.40	1.42	0.20	4.62	11.00	-6.38
	5230	be (40MHz)	46	1.43	1.32	0.20	4.59	11.00	-6.41
	5210	be (80MHz)	42	-0.21	-0.46	0.20	2.88	11.00	-8.12
Band 1/2A	5250	be (160MHz)	50	-4.61	-4.54	0.22	-1.35	11.00	-12.35
Band 2A	5260	be (20MHz)	52	5.58	5.81	0.16	8.87	11.00	-2.13
	5280	be (20MHz)	56	5.59	5.79	0.16	8.87	11.00	-2.13
	5320	be (20MHz)	64	5.48	5.71	0.16	8.77	11.00	-2.23
	5270	ax (40MHz)	54	0.10	0.33	0.20	3.43	11.00	-7.57
	5310	be (40MHz)	62	-0.54	-0.87	0.20	2.51	11.00	-8.49
	5290	be (80MHz)	58	-1.16	-1.27	0.20	2.00	11.00	-9.00
Band 2C	5500	be (20MHz)	100	5.85	6.10	0.16	9.15	11.00	-1.85
	5600	be (20MHz)	120	5.73	6.63	0.16	9.38	11.00	-1.62
	5720	be (20MHz)	144	6.36	7.38	0.16	10.08	11.00	-0.92
	5510	be (40MHz)	102	0.27	0.42	0.20	3.56	11.00	-7.44
	5590	be (40MHz)	118	-0.40	-0.81	0.20	2.61	11.00	-8.39
	5710	be (40MHz)	142	0.84	0.95	0.20	4.11	11.00	-6.89
	5530	be (80MHz)	106	-1.55	-1.21	0.20	1.84	11.00	-9.16
	5610	be (80MHz)	122	-1.17	-1.45	0.20	1.91	11.00	-9.09
	5690	be (80MHz)	138	-0.86	-0.51	0.20	2.53	11.00	-8.47
	5570	be (160MHz)	114	-5.02	-5.38	0.22	-1.97	11.00	-12.97

Table 7-25. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

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	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dB]	DCCF [dB]	Directional Antenna Gain [dBi]	MIMO EIRP PSD [dBm]	EIRP PSD Limit[dBm]	Margin [dB]
Band 1	5180	be (20MHz)	36	5.21	5.73	8.49	0.16	-2.45	6.20	10.00	-3.80
	5200	be (20MHz)	40	5.38	5.78	8.59	0.16	-2.45	6.30	10.00	-3.70
	5240	be (20MHz)	48	5.55	5.59	8.58	0.16	-2.45	6.29	10.00	-3.71
	5190	be (40MHz)	38	1.40	1.42	4.42	0.20	-2.45	2.17	10.00	-7.83
	5230	be (40MHz)	46	1.43	1.32	4.39	0.20	-2.45	2.13	10.00	-7.87
	5210	be (80MHz)	42	-0.21	-0.46	2.68	0.20	-2.45	0.43	10.00	-9.57
Band 1/2A	5250	be (160MHz)	50	-4.61	-4.54	-1.56	0.22	-2.45	-3.80	10.00	-13.80

Table 7-26. Bands 1 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones) (ISED only)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	DCCF [dB]	MIMO PSD [dB]	Conducted PSD Limit [dBm]	Margin [dB]
Band 3	5745	be (20MHz)	149	3.39	2.94	0.16	6.35	30.00	-23.65
	5785	be (20MHz)	157	3.21	2.88	0.16	6.22	30.00	-23.78
	5825	be (20MHz)	165	2.89	2.80	0.16	6.02	30.00	-23.98
	5755	be (40MHz)	151	-0.27	-0.37	0.20	2.89	30.00	-27.11
	5795	be (40MHz)	159	-0.38	-0.41	0.20	2.82	30.00	-27.18
	5775	be (80MHz)	155	-2.68	-2.25	0.20	0.75	30.00	-29.25

Table 7-27. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dB]	DCCF [dB]	Directional Antenna Gain [dBi]	MIMO EIRP PSD [dBm]	EIRP PSD Limit[dBm]	Margin [dB]
Band 3/4	5845	be (20MHz)	169	5.84	5.86	8.86	0.16	-4.39	4.64	14.00	-9.36
Band 4	5865	be (20MHz)	173	5.85	5.76	8.81	0.16	-4.39	4.59	14.00	-9.41
	5885	be (20MHz)	177	5.63	5.36	8.50	0.16	-4.39	4.28	14.00	-9.72
Band 3/4	5835	be (40MHz)	167	2.92	2.70	5.82	0.20	-4.39	1.64	14.00	-12.36
Band 4	5875	be (40MHz)	175	0.91	1.61	4.28	0.20	-4.39	0.10	14.00	-13.90
Band 3/4	5855	be (80MHz)	171	-0.04	0.32	3.16	0.20	-4.39	-1.03	14.00	-15.03
	5815	be (160MHz)	163	-2.30	-2.59	0.57	0.22	-4.39	-3.60	14.00	-17.60

Table 7-28. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel	MRU Configuration	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	DCCF [dB]	MIMO PSD [dB]	Conducted PSD Limit [dBm]	Margin [dB]
Band 1	5200	be (20MHz)	40	52+26T	4.84	5.46	0.20	8.37	11.00	-2.63
	5200	be (20MHz)	40	106+26T	5.78	5.81	0.00	8.81	11.00	-2.19
	5210	be (80MHz)	42	484+242T	-1.68	-1.97	0.16	1.35	11.00	-9.65
Band 1/2A	5250	be (160MHz)	50	996+484T	-4.47	-4.91	0.16	-1.51	11.00	-12.51
Band 2A	5280	be (20MHz)	56	52+26T	5.36	5.87	0.20	8.83	11.00	-2.17
	5280	be (20MHz)	56	106+26T	6.39	6.52	0.00	9.47	11.00	-1.53
	5290	be (80MHz)	58	484+242T	-2.19	-1.76	0.16	1.20	11.00	-9.80
Band 2C	5600	be (20MHz)	120	52+26T	5.06	4.92	0.20	8.20	11.00	-2.80
	5600	be (20MHz)	120	106+26T	6.03	5.94	0.00	9.00	11.00	-2.00
	5610	be (80MHz)	122	484+242T	-2.61	-2.44	0.16	0.64	11.00	-10.36
	5570	be (160MHz)	114	996+484T	-7.34	-5.26	0.16	-3.00	11.00	-14.00

Table 7-29. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (MRU)

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	Frequency [MHz]	802.11 MODE	Channel	MRU Configuration	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dB]	DCCF [dB]	Directional Antenna Gain [dBi]	MIMO EIRP PSD [dBm]	EIRP PSD Limit [dBm]	Margin [dB]
Band 1	5200	be (20MHz)	40	52+26T	4.84	5.46	8.17	0.20	-2.45	5.92	10.00	-4.08
	5200	be (20MHz)	40	106+26T	5.78	5.81	8.81	0.00	-2.45	6.35	10.00	-3.65
	5210	be (80MHz)	42	484+242T	-1.68	-1.97	1.19	0.16	-2.45	-1.11	10.00	-11.11
Band 1/2A	5250	be (160MHz)	50	996+484T	-4.47	-4.91	-1.67	0.16	-2.45	-3.97	10.00	-13.97

Table 7-30. Bands 1 MIMO Conducted Power Spectral Density Measurements MIMO (MRU) (ISED only)

	Frequency [MHz]	802.11 MODE	Channel	MRU Configuration	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	DCCF [dB]	MIMO PSD [dB]	Conducted PSD Limit [dBm]	Margin [dB]
Band 3	5785	be (20MHz)	157	52+26T	3.10	2.63	0.20	6.08	30.00	-23.92
	5785	be (20MHz)	157	106+26T	3.31	2.93	0.00	6.13	30.00	-23.87
	5775	be (80MHz)	155	484+242T	-4.73	-4.43	0.16	-1.41	30.00	-31.41

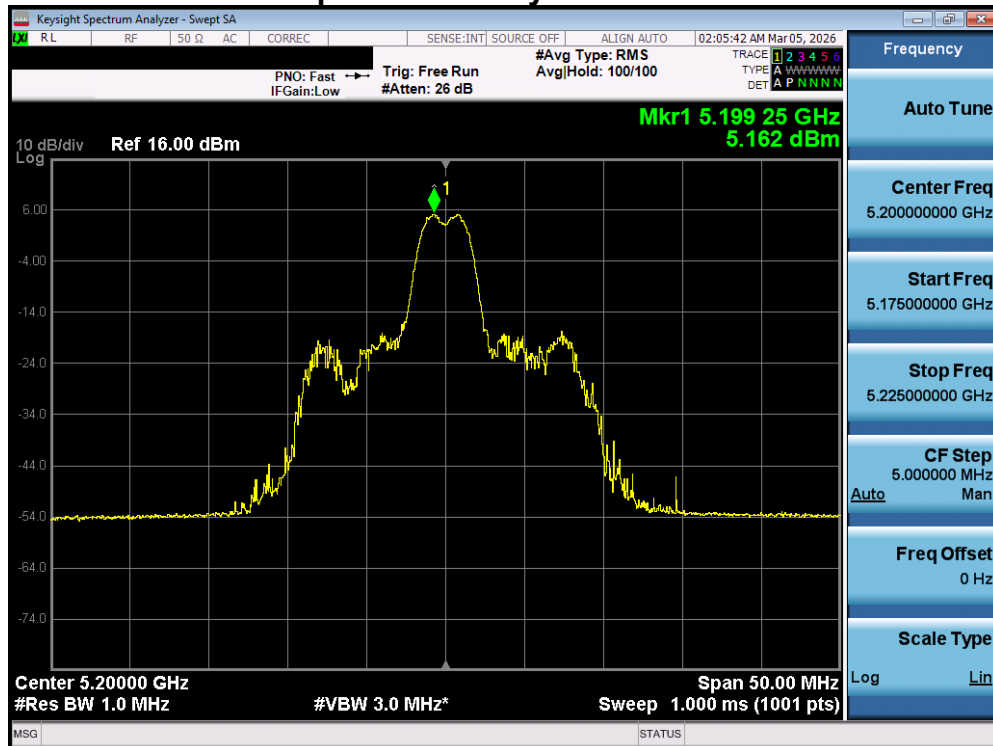
Table 7-31. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (MRU)

	Frequency [MHz]	802.11 MODE	Channel	MRU Configuration	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO PSD [dB]	DCCF [dB]	Antenna Gain [dBi]	MIMO EIRP PSD [dBm]	Max EIRP PSD [dBm]	Margin [dB]
Band 4	5865	be (20MHz)	173	52+26T	5.25	5.28	8.28	0.20	-4.39	4.09	14.00	-9.91
	5865	be (20MHz)	173	106+26T	5.79	5.86	8.84	0.00	-4.39	4.45	14.00	-9.55
Band 3/4	5855	be (80MHz)	171	484+242T	-2.02	-1.61	1.20	0.16	-4.39	-3.03	14.00	-17.03
	5815	be (160MHz)	163	996+484T	-4.75	-4.67	-1.70	0.16	-4.39	-5.93	14.00	-19.93

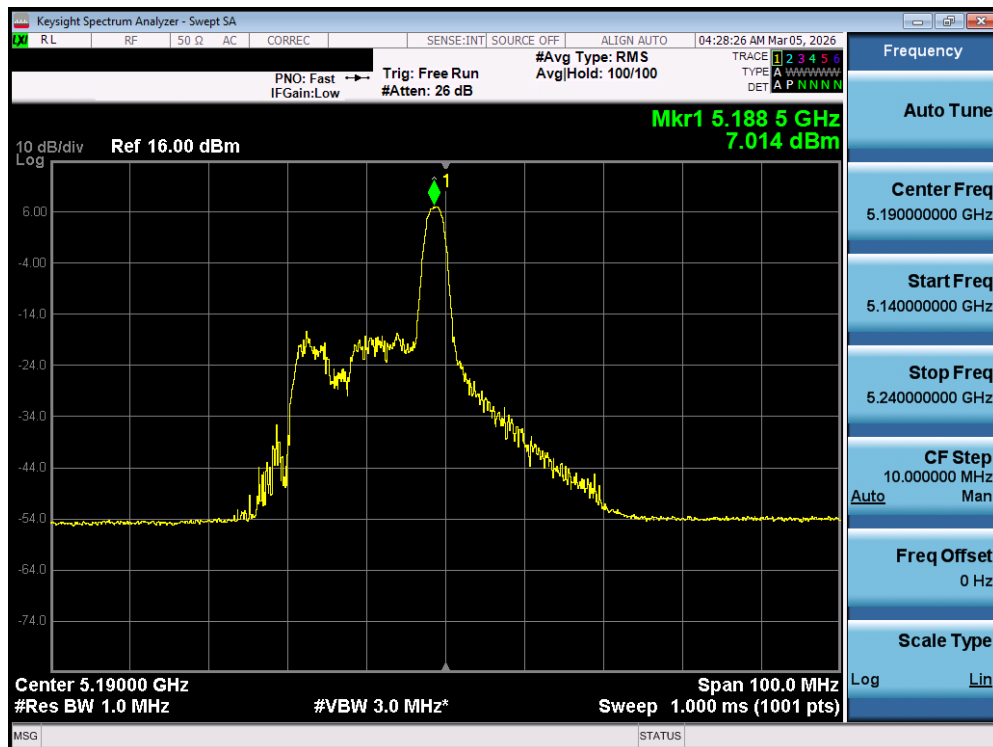
Table 7-32. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (MRU)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		

7.5.1 MIMO Antenna-1 Power Spectral Density Measurements

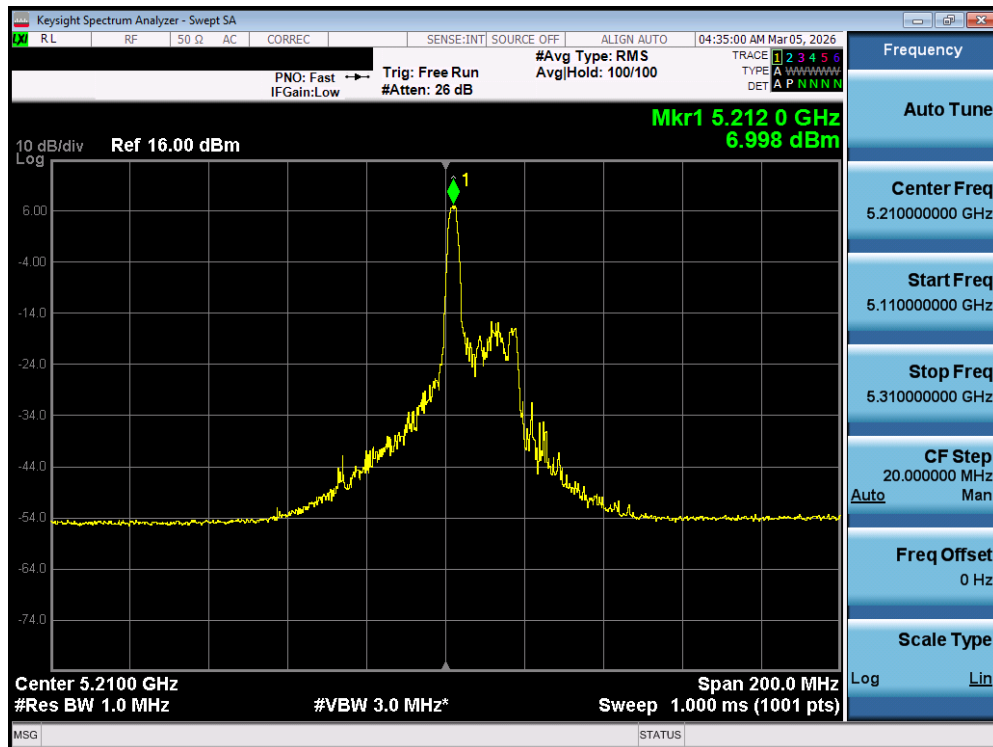


Plot 7-99. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 40)

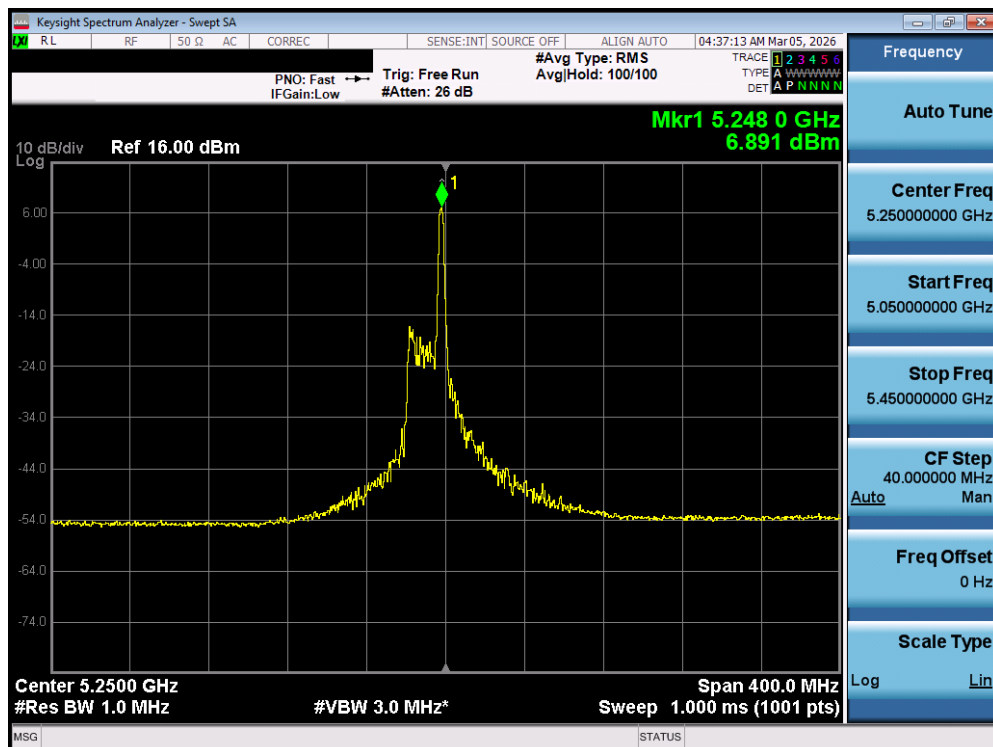


Plot 7-100. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 94 of 172

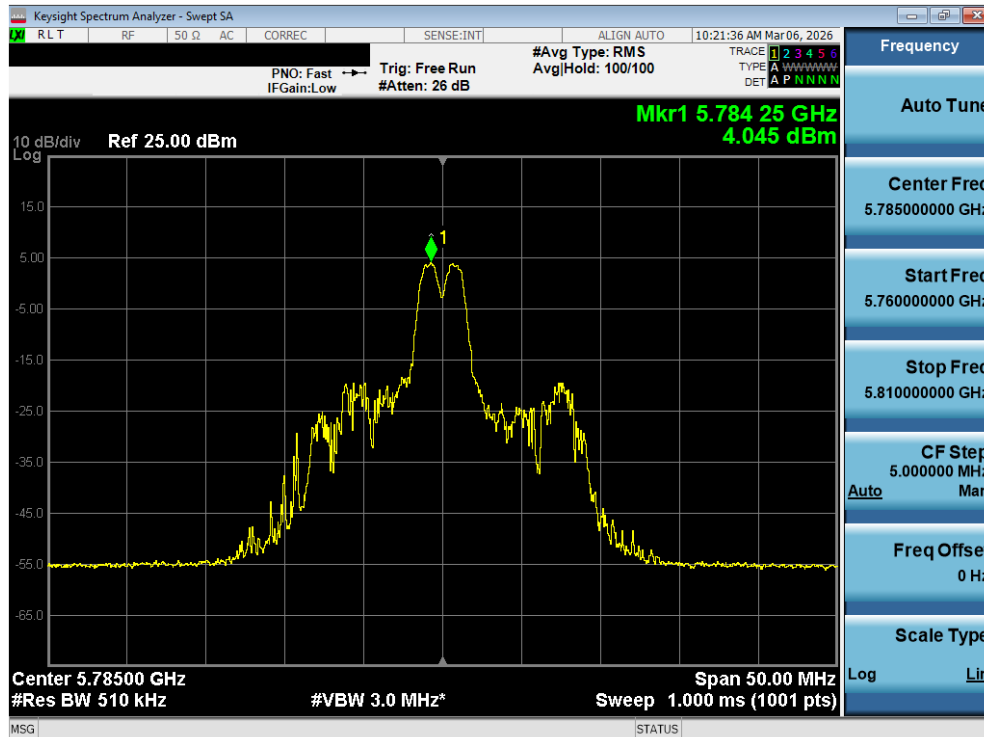


Plot 7-101. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be – 26 Tones (UNII Band 1) – Ch. 42)

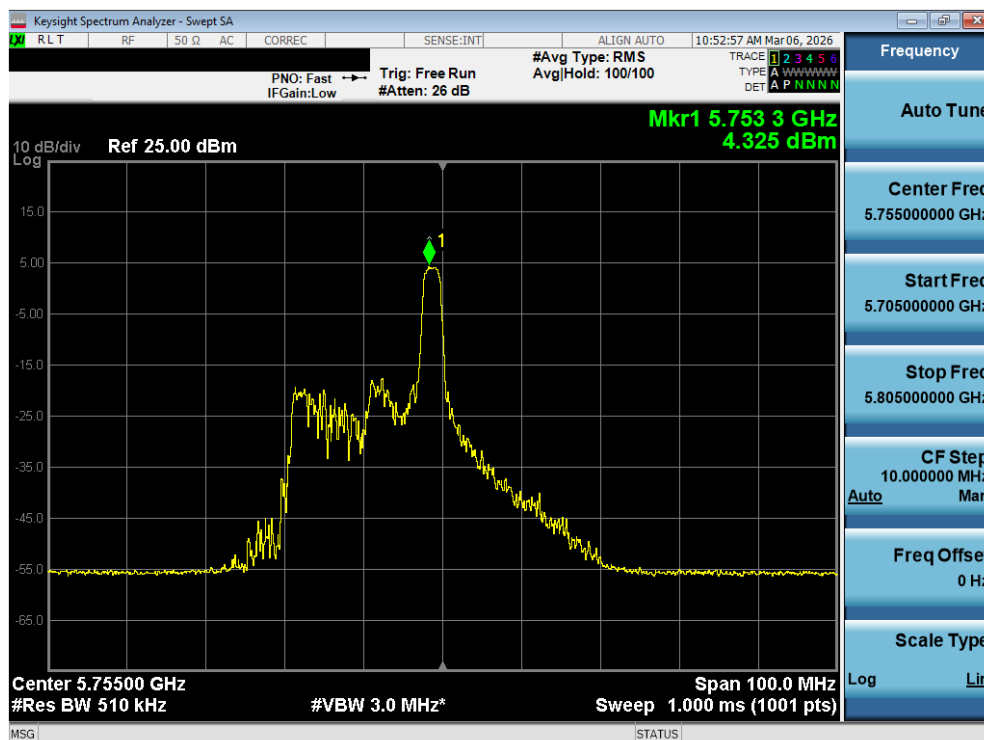


Plot 7-102. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 95 of 172



Plot 7-103. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 157)



Plot 7-104. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-17-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 96 of 172