



ELEMENT MATERIALS TECHNOLOGY,

Columbia MD

(formerly PCTEST)

7185 Oakland Mills Road, Columbia, MD 21046 USA

Tel. 410.290.6652 / Fax 410.381.1520

<http://www.element.com>

MEASUREMENT REPORT

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

Applicant Name:

Samsung Electronics Co., Ltd.

129, Samsung-ro,

Yeongtong-gu, Suwon-si

Gyeonggi-do, 16677, Korea

Date of Testing:

7/15/2026 – 7/23/2026

Test Report Issue Date:

8/12/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

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

Test Report Serial No.:

1M2607060061-10-R1.A3L

FCC ID:

A3LSMA185G

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-A185G/DS

Additional Model(s):

SM-A185G

EUT Type:

Portable Handset

Frequency Range:

5180 – 5850MHz

Modulation Type:

OFDM

FCC Equipment Class:

Unlicensed National Information Infrastructure TX (NII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

FCC Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024

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: 1M2607060061-10-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2607060061-10.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

RJ Ortanez
Executive Vice President



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TEST REPORT REVISION HISTORY

Revision	Date	Comment	Revised By
-	8/4/2026	Initial Release	WKR0000023296
1	8/12/2026	Addressed comments made by TCB reviewer	WKR0000023296

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Channel Bandwidth (MHz)	UNII Band	Tx Frequency (MHz)	ANT1	
			Max. Power (mW)	Max. Power (dBm)
20	1	5180 - 5240	46.77	16.70
	2A	5260 - 5320	46.67	16.69
	2C	5500 - 5720	46.03	16.63
	3	5745 - 5825	46.45	16.67
40	1	5190 - 5230	33.73	15.28
	2A	5270 - 5310	33.73	15.28
	2C	5510 - 5710	33.19	15.21
	3	5755 - 5795	33.11	15.20
80	1	5210	20.00	13.01
	2A	5290	18.03	12.56
	2C	5530 - 5690	19.41	12.88
	3	5775	20.23	13.06

EUT Overview

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

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

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMA185G**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

Test Device Serial No.: 0123M, 0093M, 0149M, 0157M, 0126M

2.2 Device Capabilities

This device contains the following capabilities:

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

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

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

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

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

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

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

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Notes:

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

802.11 Mode/Band		ANT1	
		Duty Cycle [%]	Radiated DCCF [dB]
5GHz	a	96.80	0.14
	n (HT20)	98.00	N/A
	ac (VHT20)	98.01	N/A
	n (HT40)	96.09	0.17
	ac (VHT40)	95.95	0.18
	ac (VHT80)	86.98	0.61

Table 2-4. Measured Duty Cycles

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

802.11a	MCS Index				OFDM (802.11n/802.11ac)				OFDM (802.11ac)	
20MHz					20MHz		40MHz		80MHz	
	HT	VHT	HE	EHT	0.8μs GI	0.4μs GI	0.8μs GI	0.4μs GI	0.8μs GI	0.4μs GI
6	0	0	0	0	6.5	7.2	13.5	15	29.3	32.5
9	1	1	1	1	13	14.4	27	30	58.5	65
12	2	2	2	2	19.5	21.7	40.5	45	87.8	97.5
18	3	3	3	3	26	28.9	54	60	117	130
24	4	4	4	4	39	43.3	81	90	175.5	195
36	5	5	5	5	52	57.8	108	120	234	260
48	6	6	6	6	58.5	65	121.5	135	263.3	292.5
54	7	7	7	7	65	72.2	135	150	292.5	325
		8	8	8	78	86.7	162	180	351	390
		9	9	9	N/A	N/A	180	200	390	433.3
			10	10						
			11	11						
				12						
				13						

Table 2-5. Supported Data Rates

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2.3 Antenna Description

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

Frequency [MHz]	Antenna 1 Gain (dBi)
5180 – 5240	-2.2
5260 – 5320	-3.4
5500 – 5720	-3.8
5745 – 5825	-4.5

Table 2-6. Antenna Peak Gain

2.4 Test Configuration

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

2.5 Software and Firmware

The test was conducted with software/firmware version A185GXXU0AZG1 installed on the EUT.

2.6 EMI Suppression Device(s) / Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10:2020) was used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

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

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

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

Line conducted emissions test results are shown in Section 7.7. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

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3.3 Radiated Emissions

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

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

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

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

3.4 Environmental Conditions

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

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

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

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

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

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	1.13
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 5-1. Measurement Uncertainty Budget – MD

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

Table 5-2. Measurement Uncertainty Budget – KR

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	MD 1M 18 40	EMC Cable and Switch System	2/3/2026	Annual	2/3/2027	MD 1M 18 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
Schwarzbeck	VULB9162	Bilog Antenna (30MHz - 1GHz)	6/4/2025	Biennial	6/4/2027	00301
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Test Antenna (18GHz)	6/1/2026	Biennial	6/1/2028	9704-5182
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/11/2026	Annual	3/11/2027	101058
Anritsu	MA24408A	8GHz Microwave Peak Power Sensor	3/4/2026	Annual	3/4/2027	11675
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	7/15/2026	Annual	7/15/2027	MY52350166
Keysight Technologies	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	80622
Pasternack	NMLC-2	Line Conducted Emissions Cable (NM)	1/30/2026	Annual	1/30/2027	NMLC-2
Rohde & Schwarz	ENV216	Two-Line V-Network	2/4/2026	Biennial	2/4/2028	101379

Table 6-1. Test Equipment Calibration Table – MD

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9030A	PXA Signal Analyzer	04/13/2026	Annual	04/12/2027	MY49432391
Sunol Sciences	DRH-118	Horn Antenna	05/14/2026	Annual	05/13/2027	A102416-1
Rohde & Schwarz	VULB9162	Broadband TRILOG Antenna	06/05/2025	Biennial	06/04/2027	9162-217
RFCOREA	MA-18G10-5W-NMF	Attenuator	03/04/2026	Annual	03/03/2027	ESR10-1
Rohde & Schwarz	TS-SFUNIT-Rx	Shielded Filter Unit	01/28/2026	Annual	01/27/2027	102151
Rohde & Schwarz	ESW	EMI Test Receiver	09/15/2025	Annual	09/14/2026	103550
-	UEK1	EMC Cable and Switch System	01/28/2026	Annual	01/27/2027	UEK1

Table 6-2. Test Equipment Calibration Table – KR

Component	Serial Number
Rohde & Schwarz SF Unit	102151
ALPHA WIRE H1	6340
HUBER+SUHNER, Inc. SUCOFLEX_104_PE Cable	305916
HUBER+SUHNER, Inc. SUCOFLEX_100	803242-6

Table 6-3. KR UEK1 EMC Cable Switch System Components

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

Table 6-4. MD 1M 18-40 EMC Cable Switch System Components

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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 6-5. MD AP2-001 EMC Cable 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 6-6. MD AP2-002 EMC Cable Switch System Components

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.

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Test Report S/N: 1M2607060061-10-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 14 of 69

7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
FCC ID: A3LSMA185G
FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference	Test Location
N/A	26dB Bandwidth	N/A	CONDUCTED	PASS	Section 7.2	KR
15.407(e)	6dB Bandwidth	>500kHz(5725-5850MHz)		PASS	Section 7.3	KR
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a)		PASS	Section 7.4	MD
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)/(iii)	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (UNII-1 through -3)		PASS	Section 7.5	KR
15.407(h)	Dynamic Frequency Selection	See DFS Test Report		PASS	See DFS Test Report	MD
15.407(b)(1) – (b)(5)	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b)	RADIATED	PASS	Section 7.6	MD, KR
15.205, 15.407(b)(1) – (b)(5)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS	Section 7.6	MD
15.407	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits	LINE CONDUCTED	PASS	Section 7.7	MD

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 2.4.0.
- 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 1.7.7.

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 15 of 69

7.2 26dB Bandwidth Measurement

Test Overview and Limit

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

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

Test Procedure Used

ANSI C63.10:2020 – Section 12.5

Test Settings

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

Test Setup

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



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 16 of 69

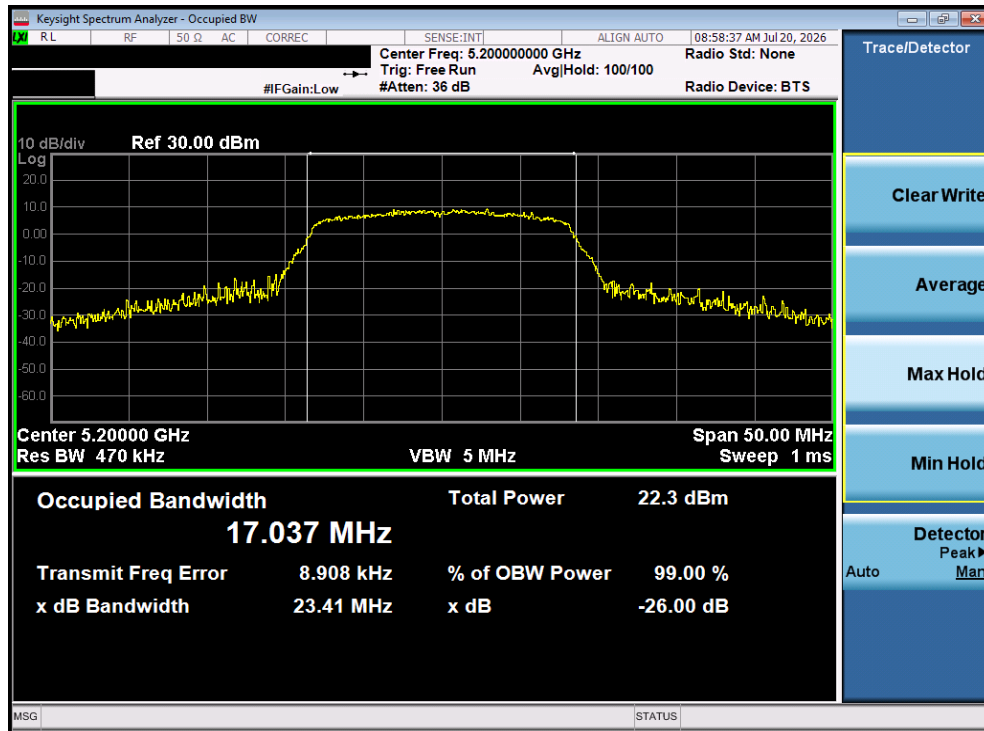
SISO 26dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-1 OBW [MHz]
Band 1	5180	36	a	23.70	17.19
	5200	40	a	23.41	17.04
	5240	48	a	21.22	17.13
	5180	36	n	25.17	17.95
	5200	40	n	27.92	18.04
	5240	48	n	25.23	17.98
	5180	36	ac	20.57	17.87
	5200	40	ac	21.50	17.91
	5240	48	ac	20.69	17.86
	5190	38	n	40.94	36.26
	5230	46	n	41.11	36.38
	5190	38	ac	41.20	36.40
	5230	46	ac	40.91	36.31
Band 2A	5210	42	ac	81.82	75.23
	5260	52	a	24.55	17.16
	5280	56	a	26.32	17.09
	5320	64	a	23.02	17.04
	5260	52	n	25.01	17.95
	5280	56	n	25.67	17.95
	5320	64	n	26.06	17.95
	5260	52	ac	20.60	17.90
	5280	56	ac	22.47	17.92
	5320	64	ac	20.66	17.89
	5270	54	n	40.98	36.34
	5310	62	n	41.24	36.40
	5270	54	ac	41.05	36.26
Band 2C	5310	62	ac	41.00	36.46
	5290	58	ac	81.82	75.40
	5500	100	a	24.08	17.14
	5600	120	a	24.74	17.11
	5720	144	a	21.00	17.16
	5500	100	n	25.01	18.03
	5600	120	n	25.07	17.98
	5720	144	n	26.39	17.98
	5500	100	ac	22.43	17.92
	5600	120	ac	21.70	17.96
	5720	144	ac	27.81	17.85
	5510	102	n	40.97	36.34
	5590	118	n	40.94	36.47
	5710	142	n	41.13	36.47
	5510	102	ac	50.59	36.40
	5590	118	ac	51.03	36.36
	5710	142	ac	51.64	36.58
	5530	106	ac	81.83	75.41
	5610	122	ac	81.77	75.35
	5690	138	ac	81.63	75.38

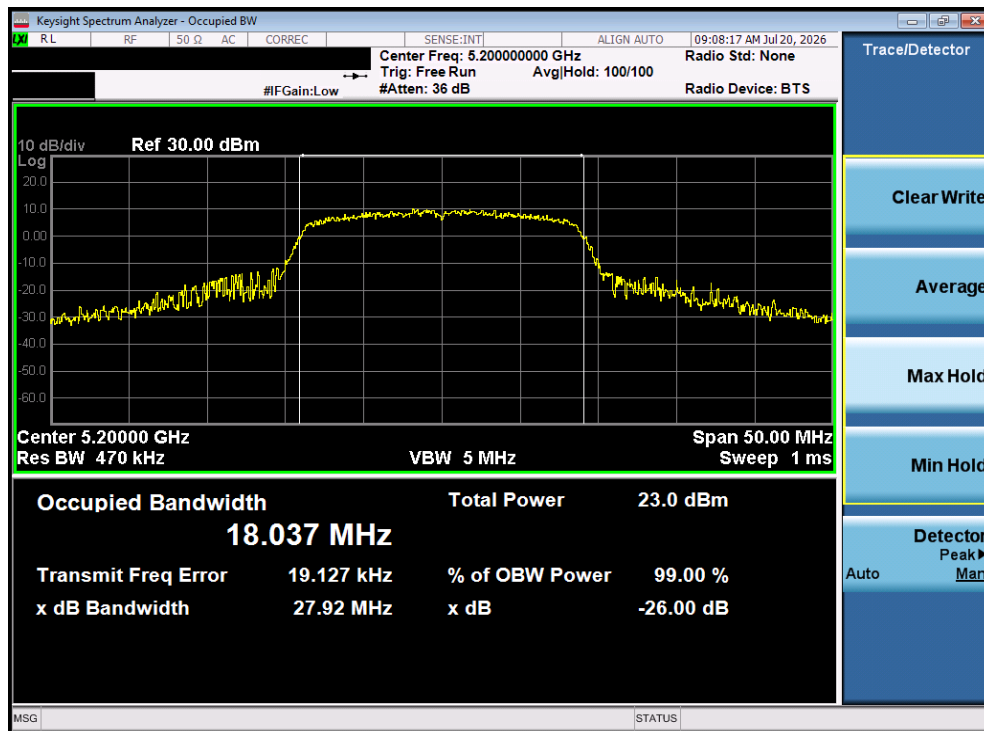
Table 7-2. Bands 1, 2A, 2C Conducted 26dB Bandwidth Measurements SISO

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 17 of 69

7.2.1 Antenna-1 26dB Bandwidth Measurements

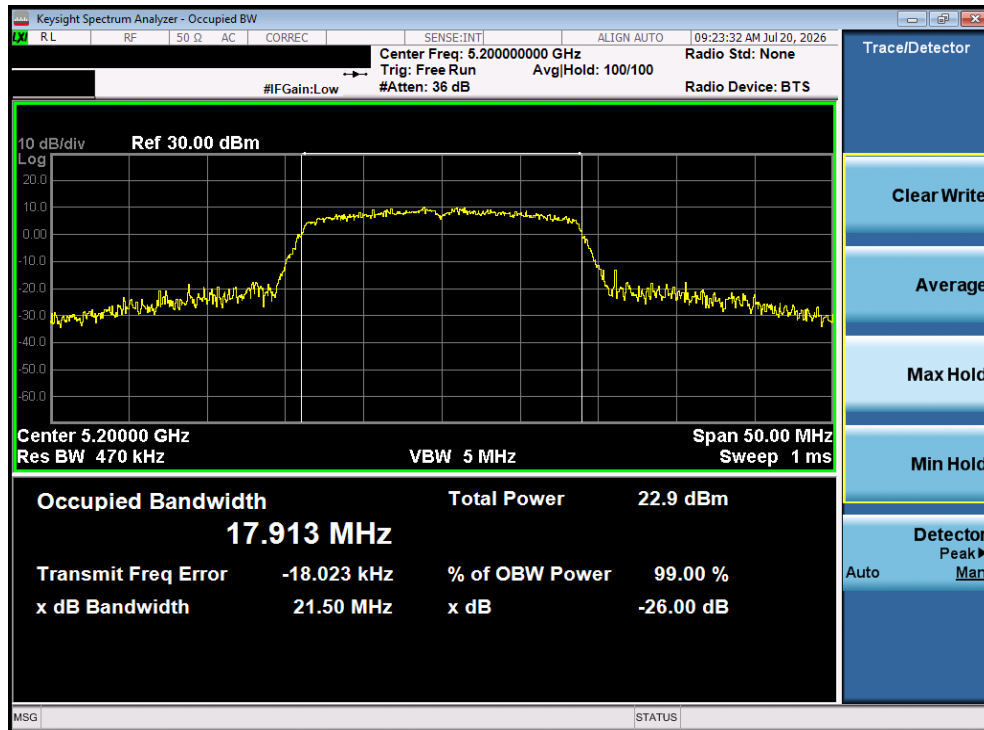


Plot 7-1. 26dB Bandwidth Plot SISO ANT1 (802.11a (UNII Band 1) – Ch. 40)

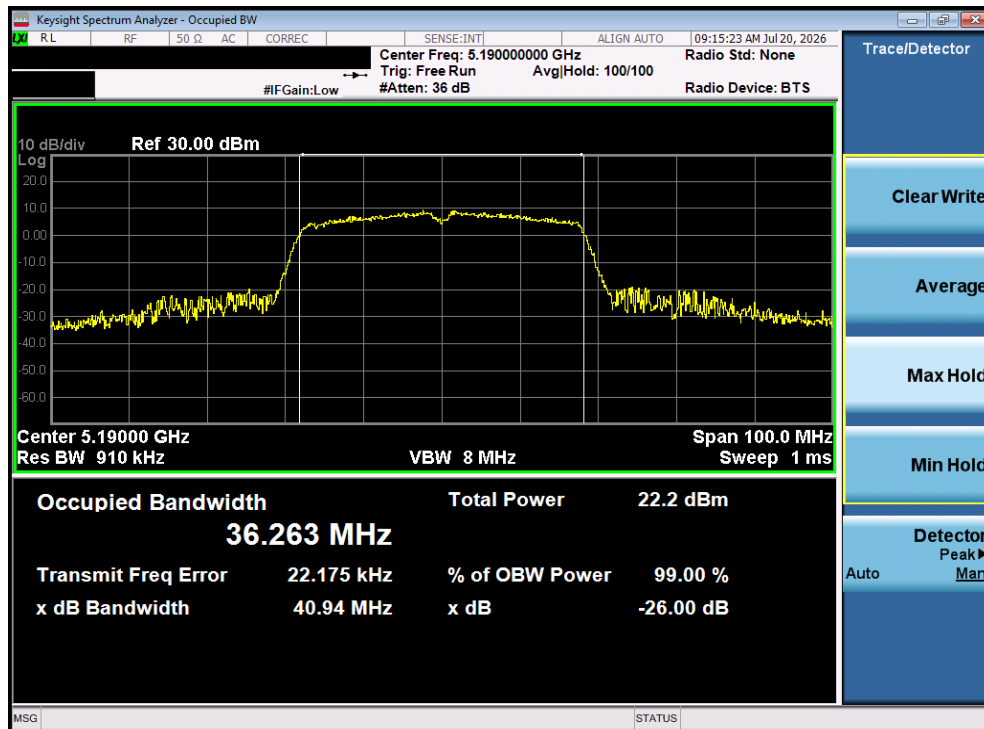


Plot 7-2. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 18 of 69

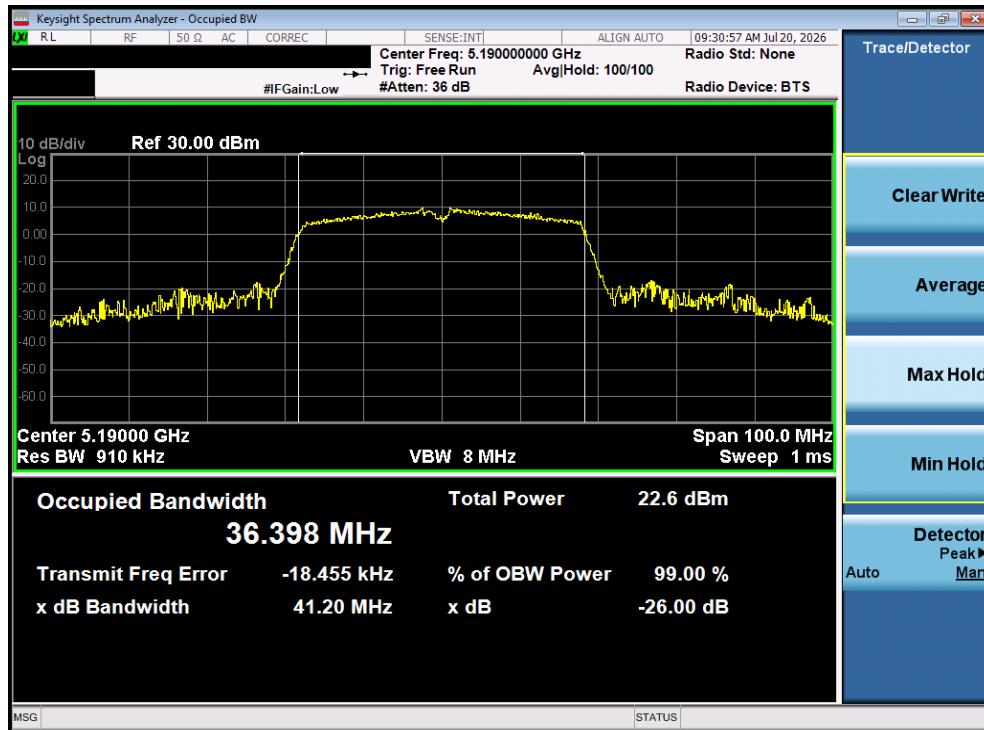


Plot 7-3. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ac (UNII Band 1) – Ch. 40)

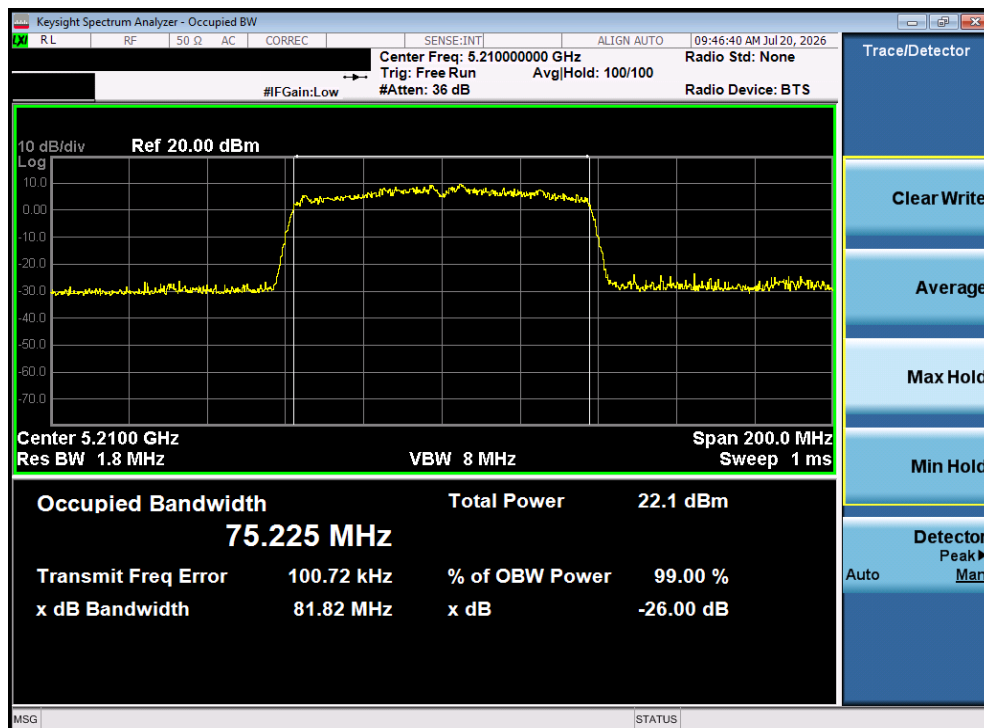


Plot 7-4. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 19 of 69



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



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

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 20 of 69

7.3 6dB Bandwidth & Occupied Bandwidth Measurement

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 – 5.850GHz band, 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 – Occupied Bandwidth

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1-5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2-7 were repeated after changing the RBW such that it would be within the 1-5% of the 99% occupied bandwidth observed in Step 7

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 22 of 69

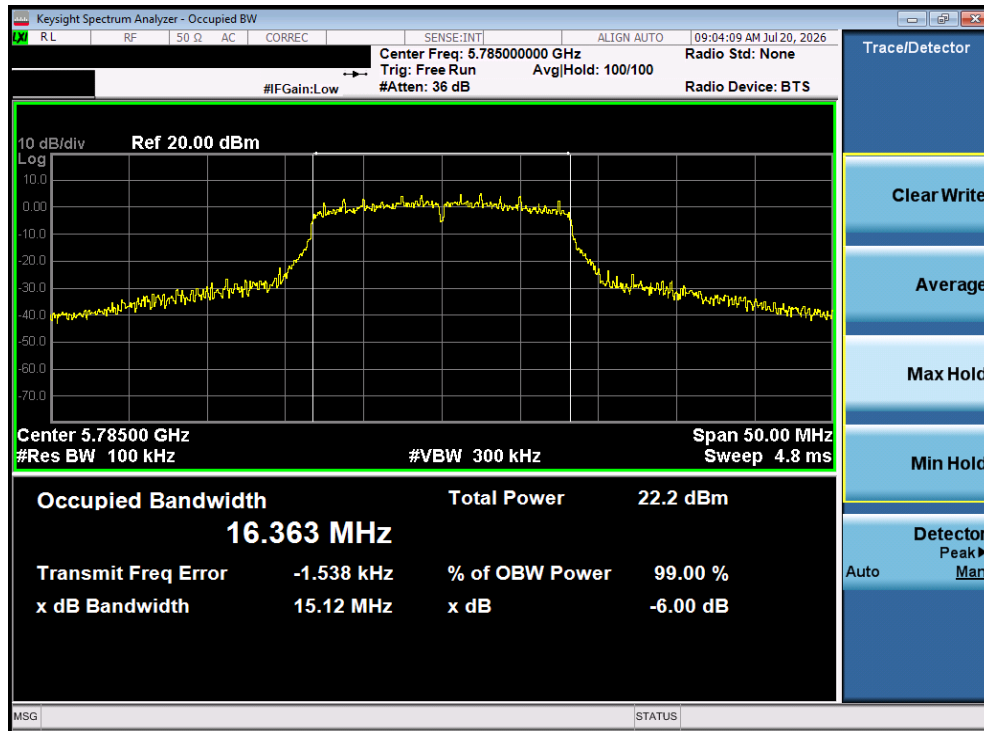
6dB Bandwidth & Occupied bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]
Band 3	5745	149	a	15.17	17.32
	5785	157	a	15.12	17.89
	5825	165	a	15.15	17.93
	5745	149	n	15.04	17.95
	5785	157	n	15.12	17.99
	5825	165	n	15.08	18.01
	5745	149	ac	14.92	17.91
	5785	157	ac	15.11	17.90
	5825	165	ac	14.53	17.96
	5755	151	n	35.16	36.58
	5795	159	n	35.13	36.47
	5755	151	ac	35.19	36.33
	5795	159	ac	35.19	36.49
	5775	155	ac	75.39	75.31

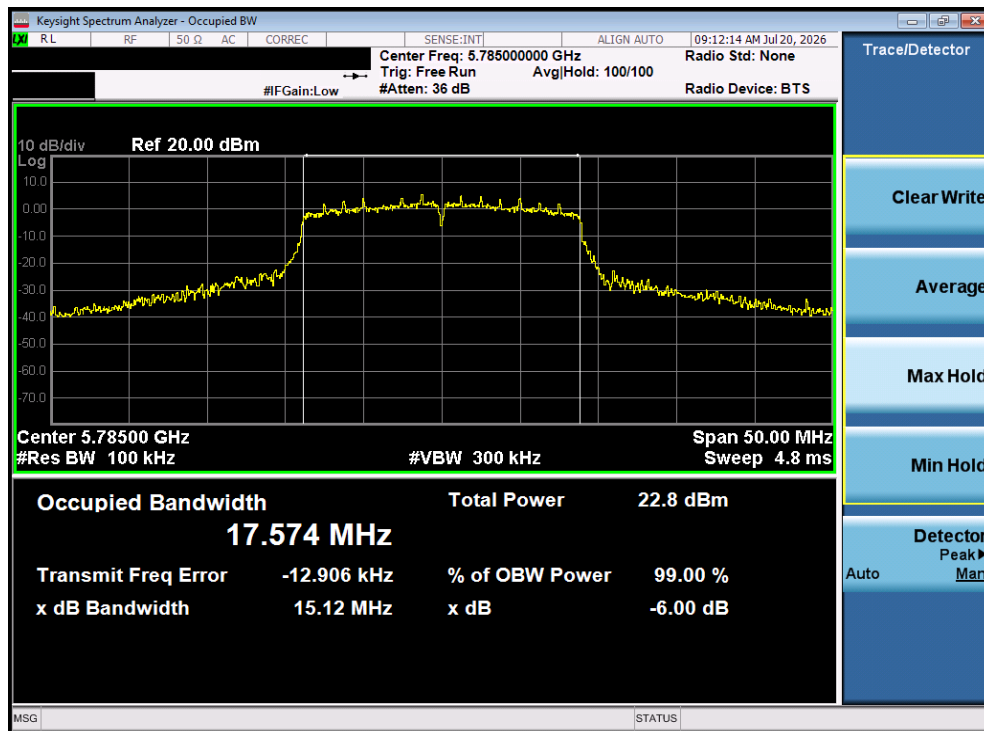
Table 7-3. Band 3 Conducted 6dB Bandwidth Measurements & OBW Measurements

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 23 of 69

7.3.1 Antenna-1 6dB Bandwidth Measurements

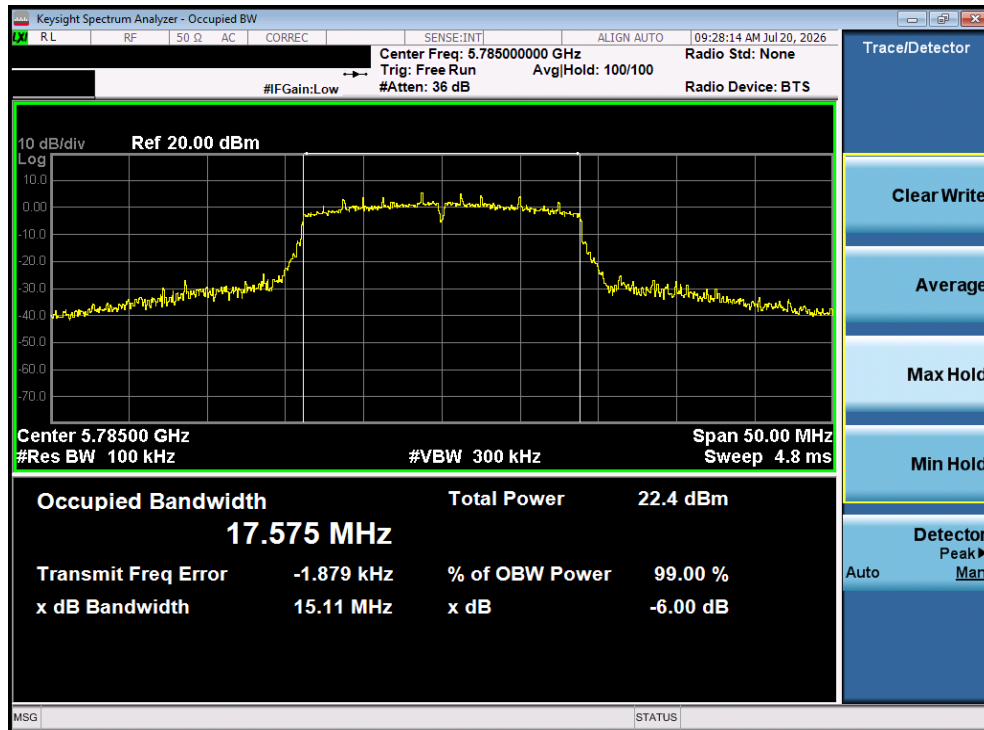


Plot 7-7. 6dB Bandwidth Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 157)

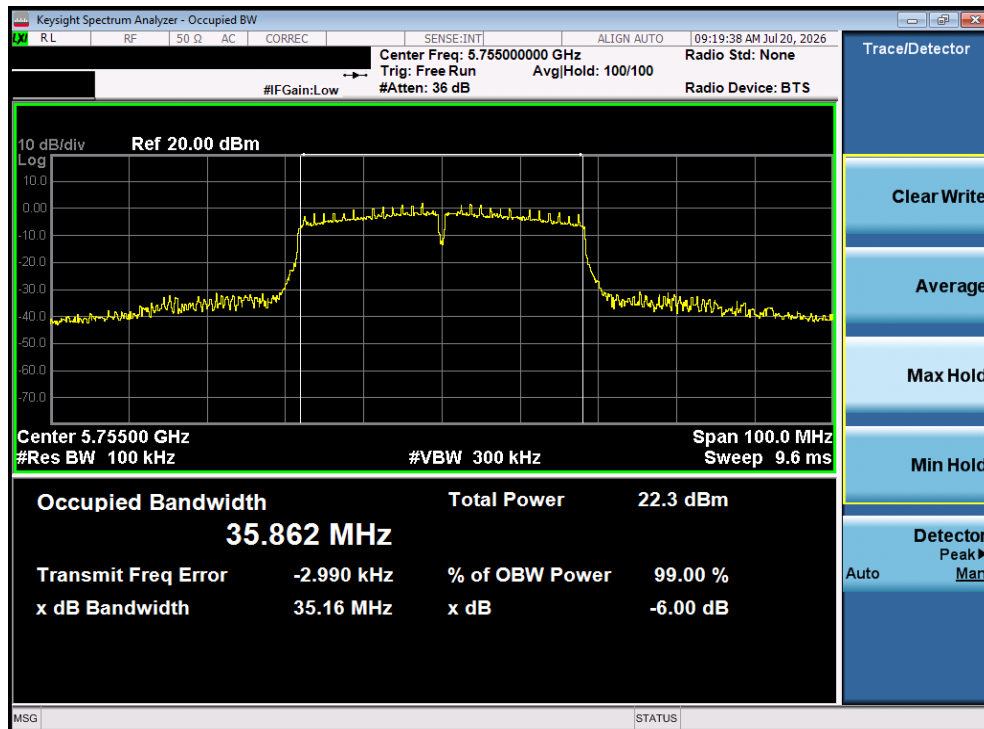


Plot 7-8. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 24 of 69

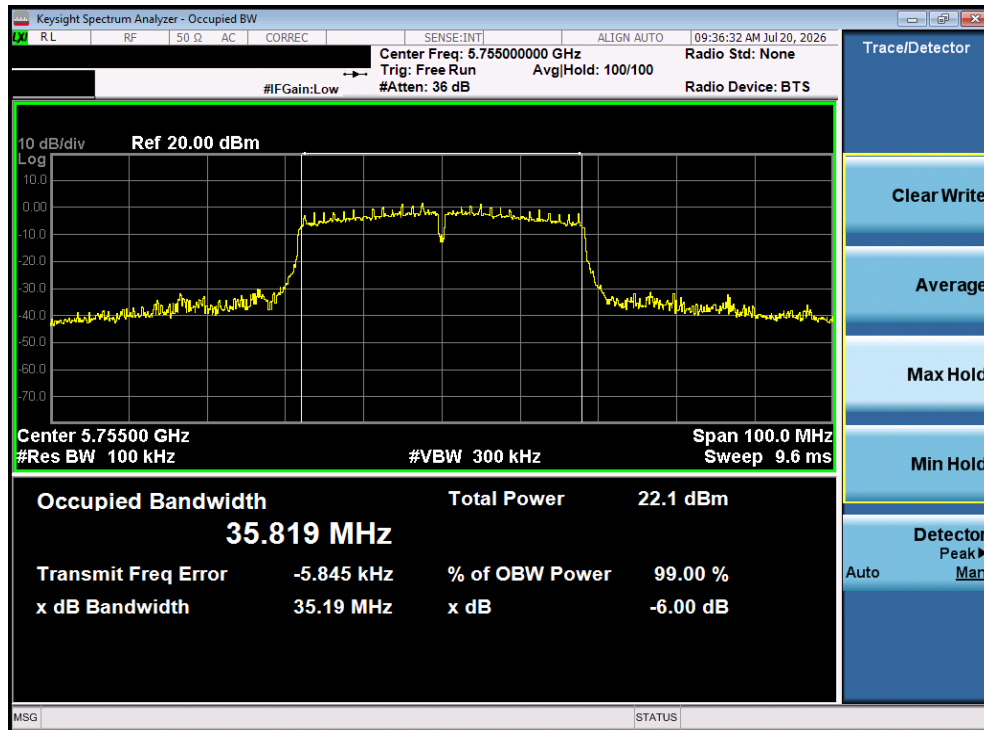


Plot 7-9. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ac (UNII Band 3) – Ch. 157)

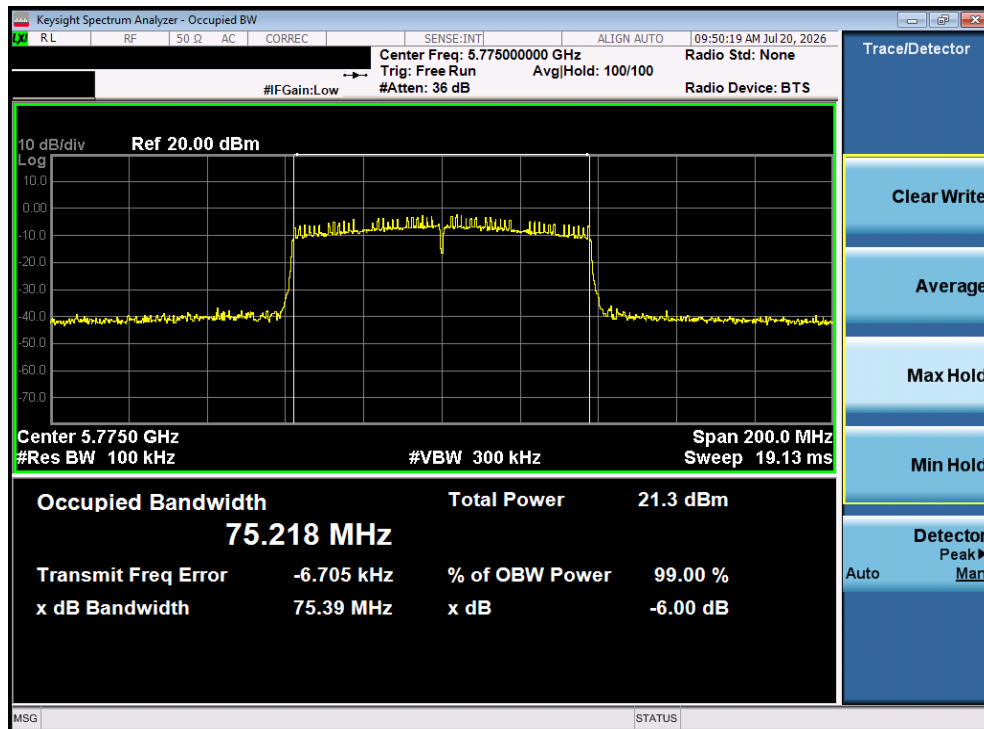


Plot 7-10. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69



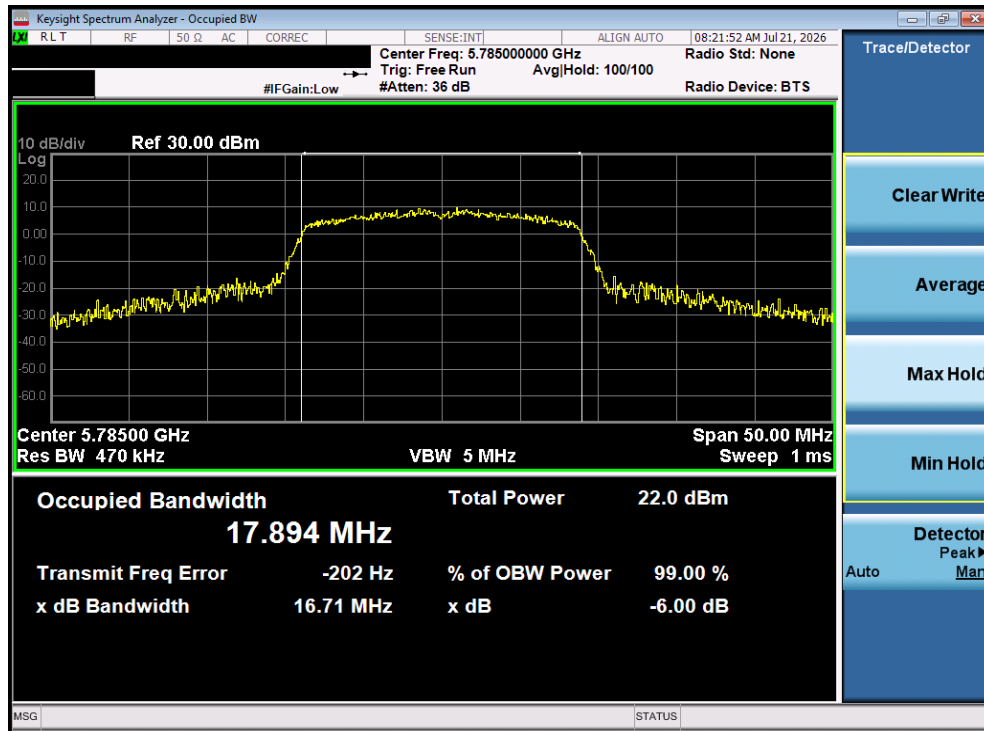
Plot 7-11. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ac (UNII Band 3) – Ch. 151)



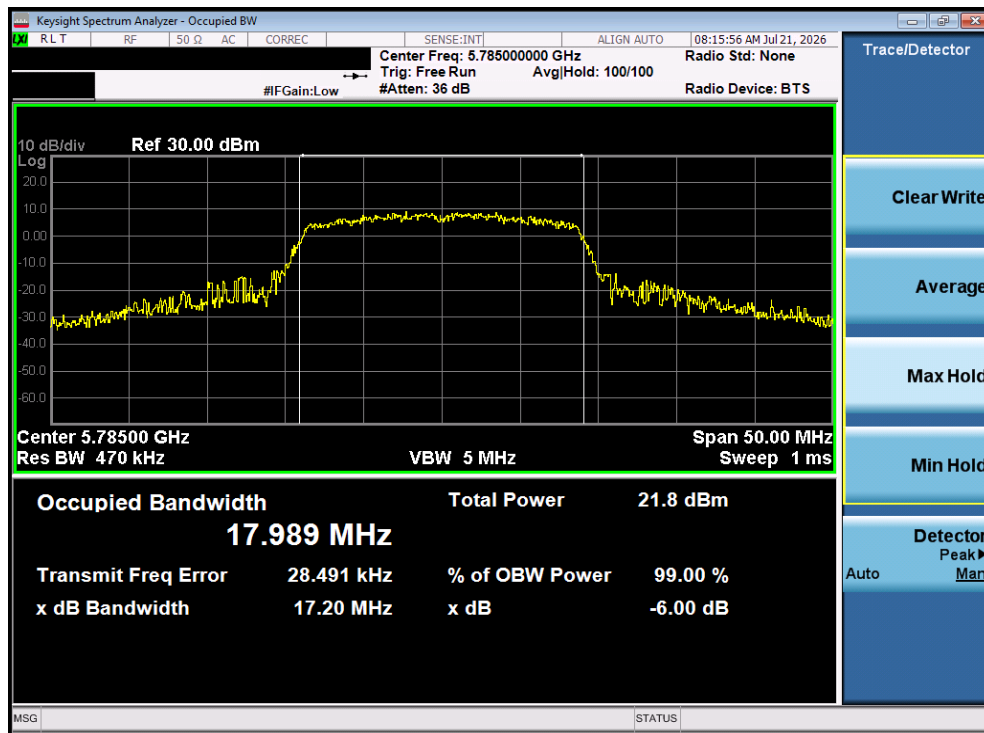
Plot 7-12. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

7.3.2 Antenna-1 OBW Measurements

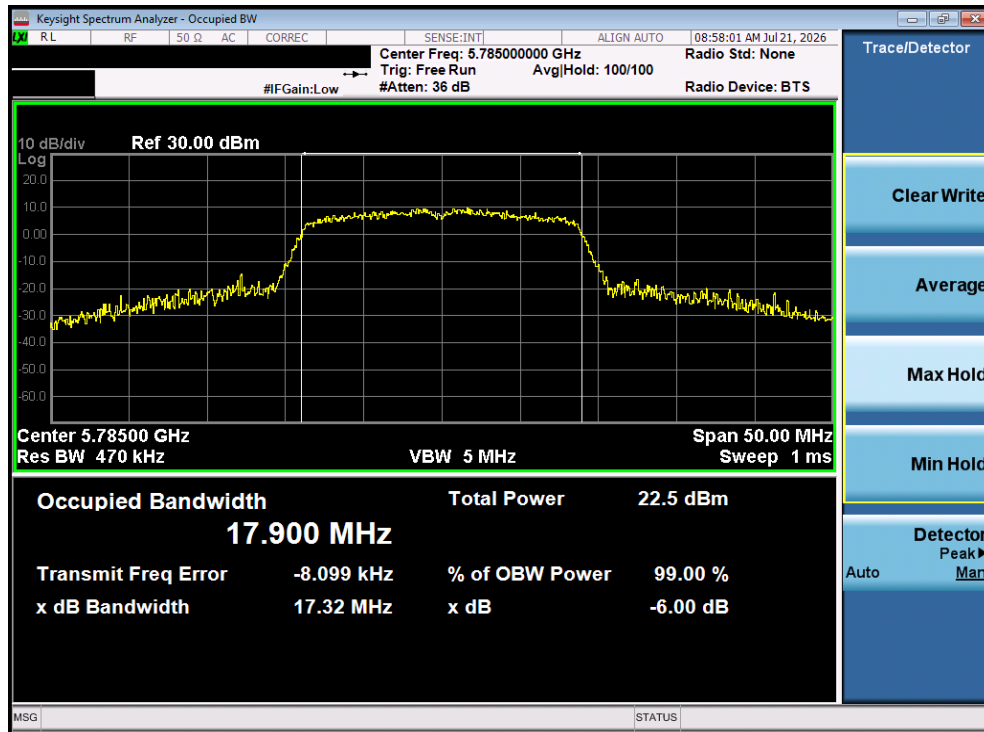


Plot 7-13. OBW Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 157)

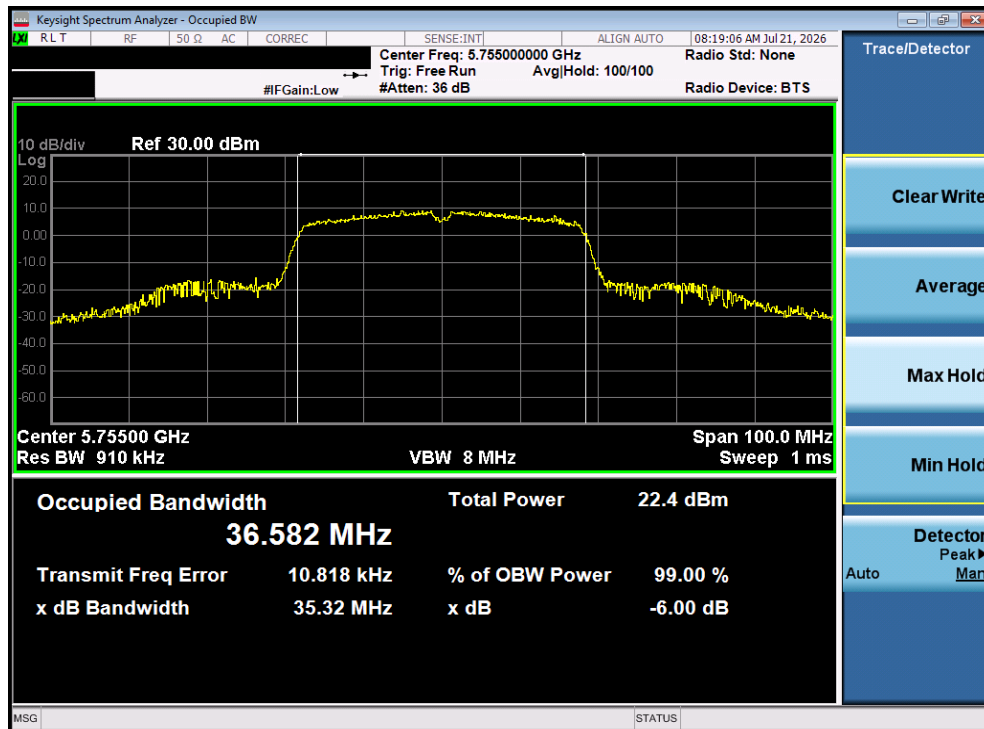


Plot 7-14. OBW Plot SISO ANT1 (802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

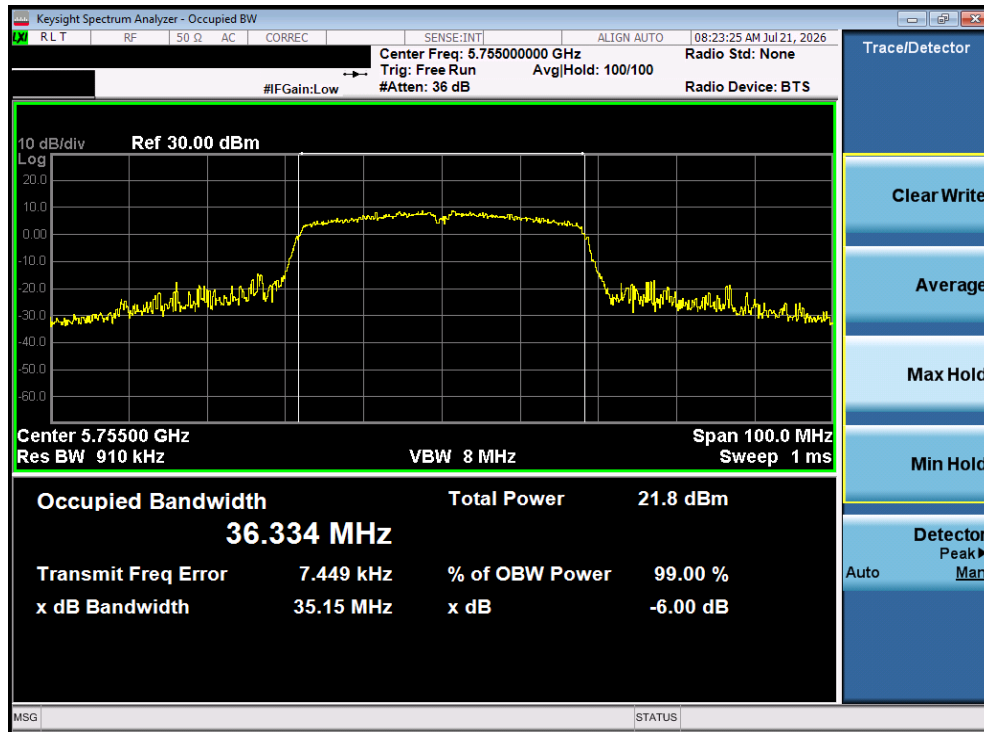


Plot 7-15. OBW Plot SISO ANT1 (802.11ac (UNII Band 3) – Ch. 157)

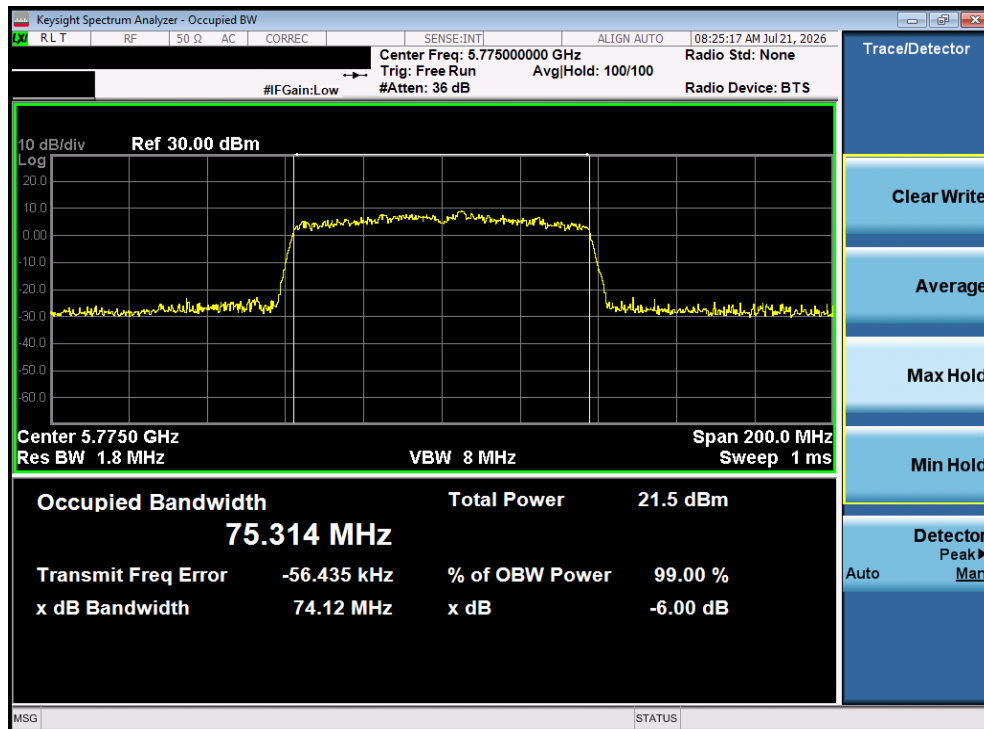


Plot 7-16. OBW Plot SISO ANT1 (802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69



Plot 7-17. OBW Plot SISO ANT1 (802.11ac (UNII Band 3) – Ch. 151)



Plot 7-18. OBW Plot SISO ANT1 (802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

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

Test Procedure Used

ANSI C63.10:2020 – Section 12.4.3.2 Method PM-G

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.

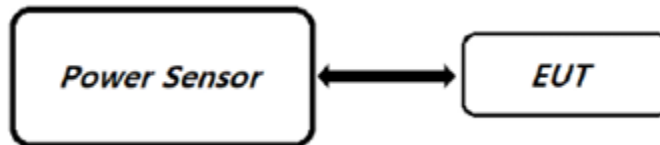


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

Maximum Conducted Output Power Measurements

5GHz WIFI (20MHz 802.11a SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]						
UNII-1	5180	36	16.59	23.98	-7.39	-2.20	14.39	30.00	-15.61
	5200	40	16.68	23.98	-7.30	-2.20	14.48	30.00	-15.52
	5220	44	16.70	23.98	-7.28	-2.20	14.50	30.00	-15.50
	5240	48	16.65	23.98	-7.34	-2.20	14.45	30.00	-15.56
UNII-2A	5260	52	16.67	23.98	-7.31	-3.40	13.27	30.00	-16.73
	5280	56	16.70	23.98	-7.29	-3.40	13.30	30.00	-16.71
	5300	60	16.69	23.98	-7.29	-3.40	13.29	30.00	-16.71
	5320	64	16.57	23.98	-7.41	-3.40	13.17	30.00	-16.83
UNII-2C	5500	100	15.18	23.98	-8.80	-3.80	11.38	30.00	-18.62
	5600	120	16.62	23.98	-7.36	-3.80	12.82	30.00	-17.18
	5620	124	16.63	23.98	-7.35	-3.80	12.83	30.00	-17.17
	5720	144	16.43	23.98	-7.55	-3.80	12.63	30.00	-17.37
UNII-3	5745	149	16.47	30.00	-13.53	-4.50	11.97	36.00	-24.03
	5785	157	16.65	30.00	-13.35	-4.50	12.15	36.00	-23.85
	5825	165	16.67	30.00	-13.33	-4.50	12.17	36.00	-23.83

Table 7-4. 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11n SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]						
UNII-1	5180	36	16.38	23.98	-7.60	-2.20	14.18	30.00	-15.82
	5200	40	16.16	23.98	-7.82	-2.20	13.96	30.00	-16.04
	5220	44	16.38	23.98	-7.60	-2.20	14.18	30.00	-15.82
	5240	48	16.41	23.98	-7.57	-2.20	14.21	30.00	-15.79
UNII-2A	5260	52	16.38	23.98	-7.60	-3.40	12.98	30.00	-17.02
	5280	56	16.51	23.98	-7.47	-3.40	13.11	30.00	-16.89
	5300	60	16.48	23.98	-7.50	-3.40	13.08	30.00	-16.92
	5320	64	16.02	23.98	-7.96	-3.40	12.62	30.00	-17.38
UNII-2C	5500	100	15.05	23.98	-8.94	-3.80	11.25	30.00	-18.76
	5600	120	16.15	23.98	-7.83	-3.80	12.35	30.00	-17.65
	5620	124	16.14	23.98	-7.84	-3.80	12.34	30.00	-17.66
	5720	144	16.14	23.98	-7.84	-3.80	12.34	30.00	-17.66
UNII-3	5745	149	16.22	30.00	-13.78	-4.50	11.72	36.00	-24.28
	5785	157	16.31	30.00	-13.69	-4.50	11.81	36.00	-24.19
	5825	165	16.40	30.00	-13.60	-4.50	11.90	36.00	-24.10

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

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

5GHz WIFI (20MHz 802.11ac SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]						
UNII-1	5180	36	16.40	23.98	-7.58	-2.20	14.20	30.00	-15.80
	5200	40	16.34	23.98	-7.64	-2.20	14.14	30.00	-15.86
	5220	44	16.41	23.98	-7.57	-2.20	14.21	30.00	-15.79
	5240	48	16.44	23.98	-7.54	-2.20	14.24	30.00	-15.76
UNII-2A	5260	52	16.44	23.98	-7.54	-3.40	13.04	30.00	-16.96
	5280	56	16.35	23.98	-7.63	-3.40	12.95	30.00	-17.05
	5300	60	16.31	23.98	-7.67	-3.40	12.91	30.00	-17.09
	5320	64	16.05	23.98	-7.93	-3.40	12.65	30.00	-17.35
UNII-2C	5500	100	15.09	23.98	-8.89	-3.80	11.29	30.00	-18.71
	5600	120	16.22	23.98	-7.76	-3.80	12.42	30.00	-17.58
	5620	124	16.18	23.98	-7.80	-3.80	12.38	30.00	-17.62
	5720	144	16.18	23.98	-7.80	-3.80	12.38	30.00	-17.62
UNII-3	5745	149	16.28	30.00	-13.72	-4.50	11.78	36.00	-24.22
	5785	157	16.45	30.00	-13.55	-4.50	11.95	36.00	-24.05
	5825	165	16.44	30.00	-13.56	-4.50	11.94	36.00	-24.06

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

5GHz WIFI (40MHz 802.11n SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]						
UNII-1	5190	38	15.25	23.98	-8.73	-2.20	13.05	30.00	-16.95
	5230	46	15.25	23.98	-8.73	-2.20	13.05	30.00	-16.95
UNII-2A	5270	54	15.28	23.98	-8.70	-3.40	11.88	30.00	-18.12
	5310	62	15.11	23.98	-8.87	-3.40	11.71	30.00	-18.29
UNII-2C	5510	102	12.81	23.98	-11.17	-3.80	9.01	30.00	-20.99
	5590	118	15.05	23.98	-8.93	-3.80	11.25	30.00	-18.75
	5630	126	15.05	23.98	-8.93	-3.80	11.25	30.00	-18.75
	5710	142	15.14	23.98	-8.84	-3.80	11.34	30.00	-18.66
UNII-3	5755	151	15.18	30.00	-14.82	-4.50	10.68	36.00	-25.32
	5795	159	15.20	30.00	-14.80	-4.50	10.70	36.00	-25.30

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

5GHz WIFI (40MHz 802.11ac SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]						
UNII-1	5190	38	15.27	23.98	-8.71	-2.20	13.07	30.00	-16.93
	5230	46	15.28	23.98	-8.70	-2.20	13.08	30.00	-16.92
UNII-2A	5270	54	15.23	23.98	-8.75	-3.40	11.83	30.00	-18.17
	5310	62	15.08	23.98	-8.90	-3.40	11.68	30.00	-18.32
UNII-2C	5510	102	12.79	23.98	-11.19	-3.80	8.99	30.00	-21.01
	5590	118	15.05	23.98	-8.93	-3.80	11.25	30.00	-18.75
	5630	126	15.02	23.98	-8.96	-3.80	11.22	30.00	-18.78
	5710	142	15.21	23.98	-8.77	-3.80	11.41	30.00	-18.59
UNII-3	5755	151	15.18	30.00	-14.82	-4.50	10.68	36.00	-25.32
	5795	159	15.20	30.00	-14.80	-4.50	10.70	36.00	-25.30

Table 7-8. 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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5GHz WIFI (80MHz 802.11ac SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]						
UNII-1	5210	42	13.01	23.98	-10.97	-2.20	10.81	30.00	-19.19
UNII-2A	5290	58	12.56	23.98	-11.42	-3.40	9.16	30.00	-20.84
UNII-2C	5530	106	11.88	23.98	-12.10	-3.80	8.08	30.00	-21.92
	5610	122	12.85	23.98	-11.13	-3.80	9.05	30.00	-20.95
	5690	138	12.88	23.98	-11.10	-3.80	9.08	30.00	-20.92
UNII-3	5775	155	13.06	30.00	-16.94	-4.50	8.56	36.00	-27.44

Table 7-9. 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

Sample e.i.r.p Calculation:

At 5180MHz in 802.11a (20MHz BW) mode, the average conducted power was calculated to be 16.59 dBm with directional gain of -2.20 dBi.

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

$$16.59 \text{ dBm} + -2.20 \text{ dBi} = 14.39 \text{ dBm}$$

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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7.5 Maximum Power Spectral Density

Test Overview and Limit

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

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

UNII Band	Frequency Range	Maximum Conducted Power Limit
		FCC
UNII 1	5.15 – 5.25GHz	11dBm/MHz
UNII 2A	5.25 – 5.35GHz	
UNII 2C	5.47 – 5.725GHz	
UNII 3	5.725 – 5.850GHz	30dBm/500kHz

Test Procedure Used

ANSI C63.10:2020 – Section 12.4.2.4 (Method SA-2)

Test Settings

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

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Summed Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	DCCF [dB]	Max PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 1	5180	36	a	3.88	0.14	4.02	11.00	-6.98
	5200	40	a	4.53	0.14	4.67	11.00	-6.33
	5240	48	a	4.54	0.14	4.68	11.00	-6.32
	5180	36	n	3.88	0.00	3.88	11.00	-7.12
	5200	40	n	4.35	0.00	4.35	11.00	-6.65
	5240	48	n	4.22	0.00	4.22	11.00	-6.78
	5180	36	ac	3.78	0.00	3.78	11.00	-7.22
	5200	40	ac	4.40	0.00	4.40	11.00	-6.60
	5240	48	ac	4.26	0.00	4.26	11.00	-6.74
	5190	38	n	0.25	0.17	0.42	11.00	-10.59
	5230	46	n	0.48	0.17	0.65	11.00	-10.36
	5190	38	ac	0.14	0.18	0.32	11.00	-10.69
	5230	46	ac	0.22	0.18	0.40	11.00	-10.60
Band 2A	5210	42	ac	-5.05	0.61	-4.44	11.00	-15.44
	5260	52	a	4.62	0.14	4.76	11.00	-6.24
	5280	56	a	4.32	0.14	4.46	11.00	-6.54
	5320	64	a	4.61	0.14	4.75	11.00	-6.25
	5260	52	n	4.38	0.00	4.38	11.00	-6.62
	5280	56	n	4.13	0.00	4.13	11.00	-6.87
	5320	64	n	4.57	0.00	4.57	11.00	-6.43
	5260	52	ac	4.19	0.00	4.19	11.00	-6.81
	5280	56	ac	3.61	0.00	3.61	11.00	-7.39
	5320	64	ac	4.76	0.00	4.76	11.00	-6.24
	5270	54	n	0.33	0.17	0.50	11.00	-10.50
	5310	62	n	0.53	0.17	0.70	11.00	-10.30
	5270	54	ac	0.28	0.18	0.46	11.00	-10.55
Band 2C	5310	62	ac	0.60	0.18	0.78	11.00	-10.22
	5290	58	ac	-5.02	0.61	-4.41	11.00	-15.41
	5500	100	a	4.45	0.14	4.59	11.00	-6.41
	5600	120	a	4.34	0.14	4.48	11.00	-6.52
	5720	144	a	4.93	0.14	5.07	11.00	-5.93
	5500	100	n	4.25	0.00	4.25	11.00	-6.75
	5600	120	n	3.99	0.00	3.99	11.00	-7.01
	5720	144	n	4.28	0.00	4.28	11.00	-6.72
	5500	100	ac	4.21	0.00	4.21	11.00	-6.79
	5600	120	ac	4.32	0.00	4.32	11.00	-6.69
	5720	144	ac	4.58	0.00	4.58	11.00	-6.42
	5510	102	n	0.18	0.17	0.35	11.00	-10.65
	5590	118	n	0.27	0.17	0.44	11.00	-10.56
	5710	142	n	0.81	0.17	0.98	11.00	-10.03
	5510	102	ac	0.17	0.18	0.35	11.00	-10.65
	5590	118	ac	0.40	0.18	0.58	11.00	-10.42
	5710	142	ac	0.90	0.18	1.08	11.00	-9.92
	5530	106	ac	-5.24	0.61	-4.63	11.00	-15.63
	5610	122	ac	-5.07	0.61	-4.46	11.00	-15.46
	5690	138	ac	-4.59	0.61	-3.98	11.00	-14.98

Table 7-10. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements

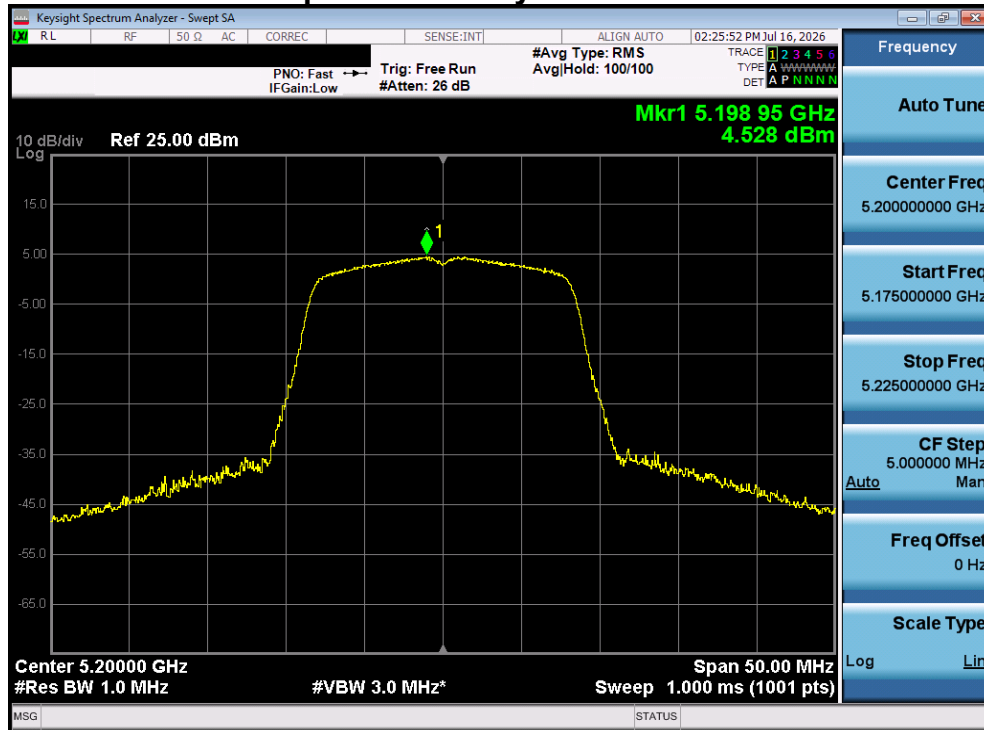
FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 35 of 69

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	DCCF [dB]	Max PSD [dBm]	Max PSD [dBm]	Margin [dB]
Band 3	5745	149	a	2.30	0.14	2.44	30.00	-27.56
	5785	157	a	2.32	0.14	2.46	30.00	-27.54
	5825	165	a	2.13	0.14	2.27	30.00	-27.73
	5745	149	n	1.83	0.00	1.83	30.00	-28.17
	5785	157	n	1.79	0.00	1.79	30.00	-28.21
	5825	165	n	1.75	0.00	1.75	30.00	-28.25
	5745	149	ac	1.89	0.00	1.89	30.00	-28.11
	5785	157	ac	1.87	0.00	1.87	30.00	-28.13
	5825	165	ac	2.02	0.00	2.02	30.00	-27.98
	5755	151	n	-2.18	0.17	-2.01	30.00	-32.01
	5795	159	n	-2.00	0.17	-1.83	30.00	-31.83
	5755	151	ac	-1.77	0.18	-1.59	30.00	-31.59
	5795	159	ac	-1.89	0.18	-1.71	30.00	-31.71
	5775	155	ac	-7.31	0.61	-6.70	30.00	-36.70

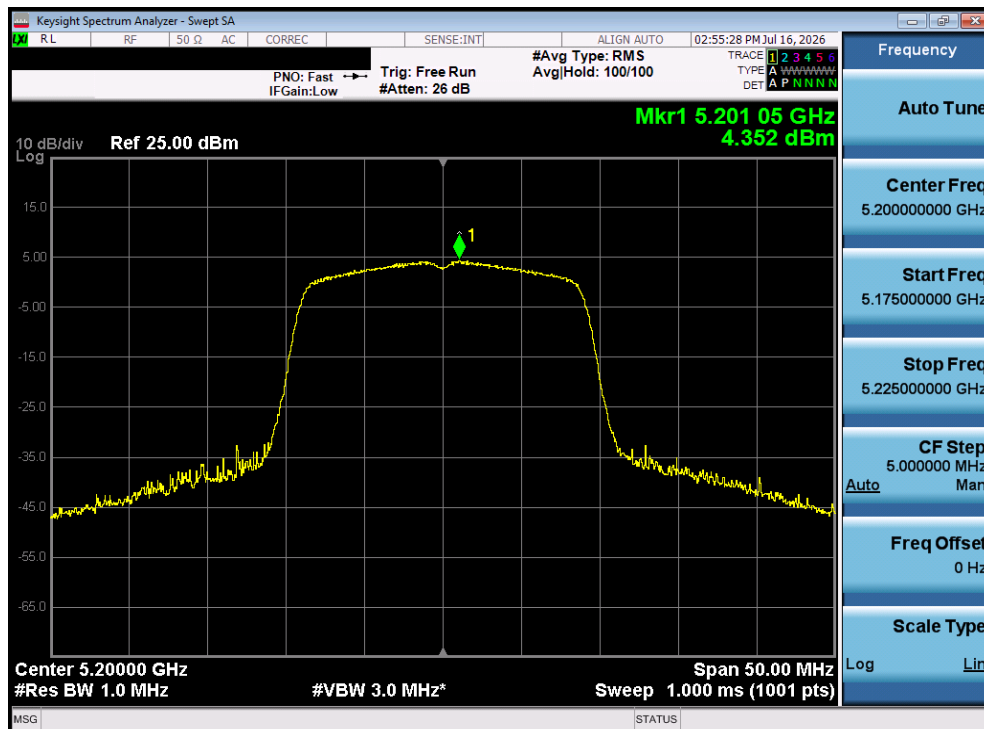
Table 7-11. Band 3 Conducted Power Spectral Density Measurements

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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7.5.1 SISO Antenna-1 Power Spectral Density Measurements

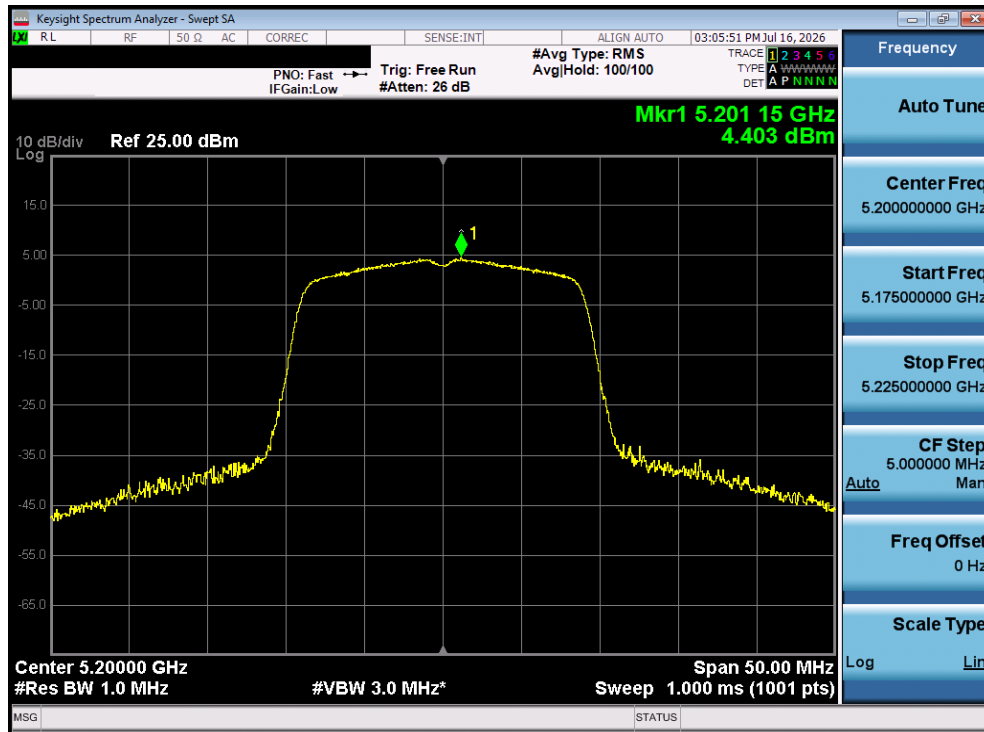


Plot 7-19. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) – Ch. 40)

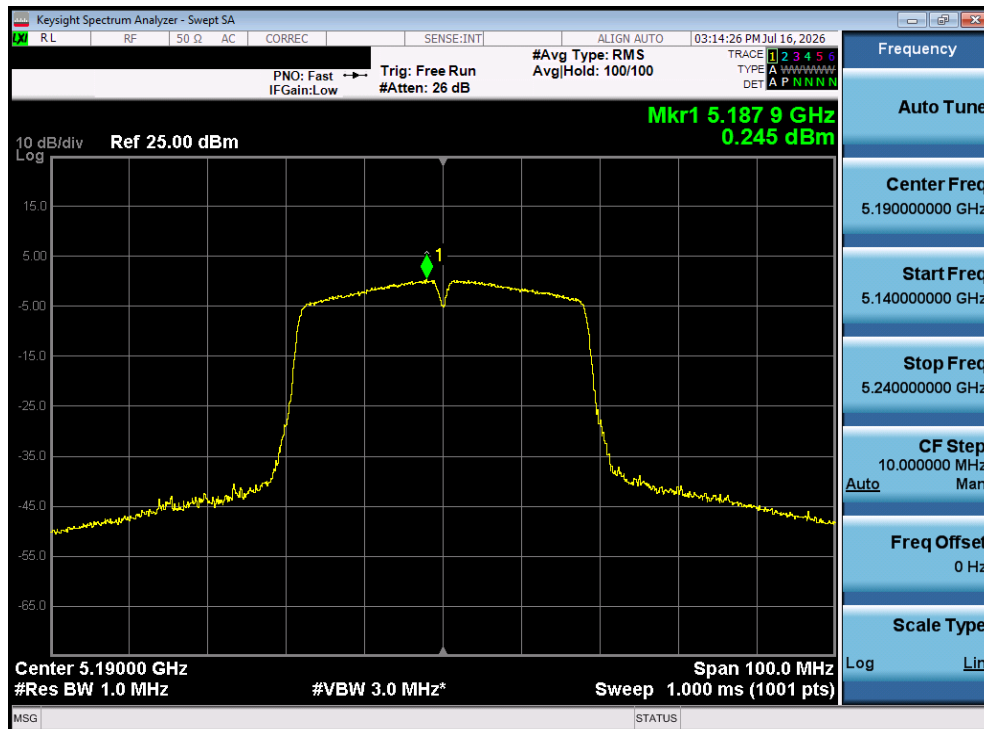


Plot 7-20. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

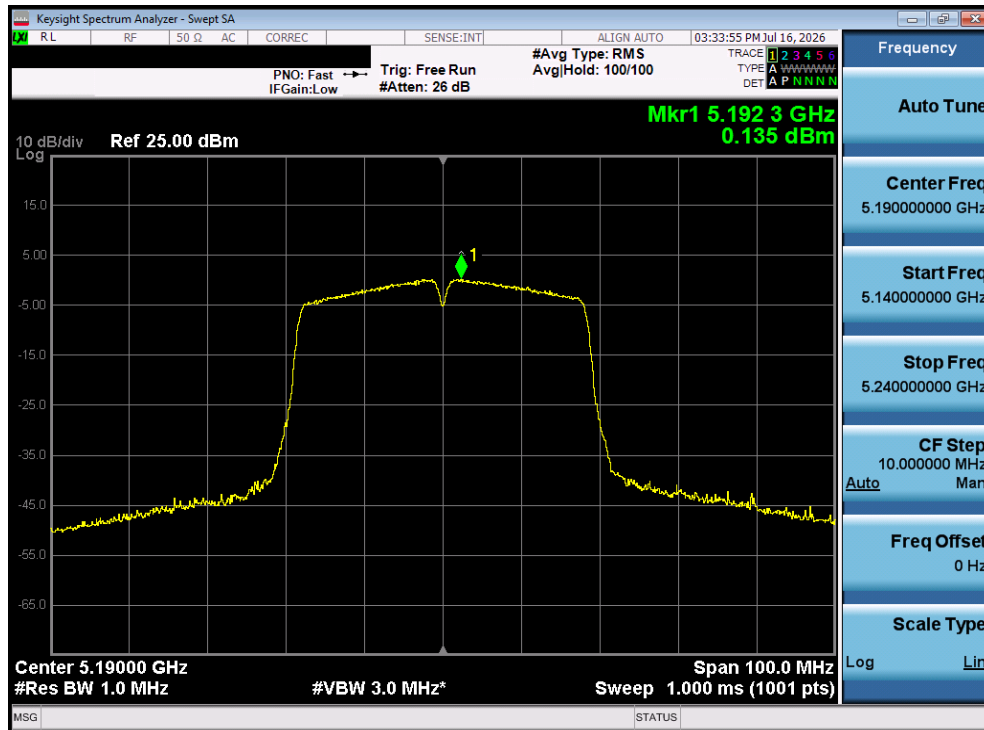


Plot 7-21. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ac (UNII Band 1) – Ch. 40)

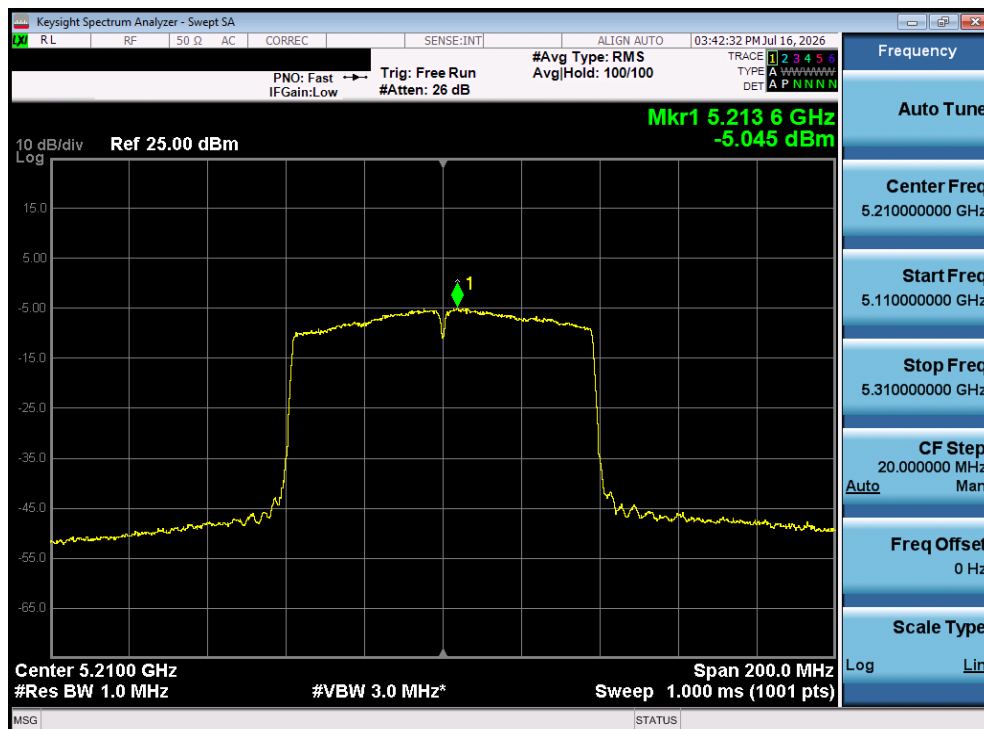


Plot 7-22. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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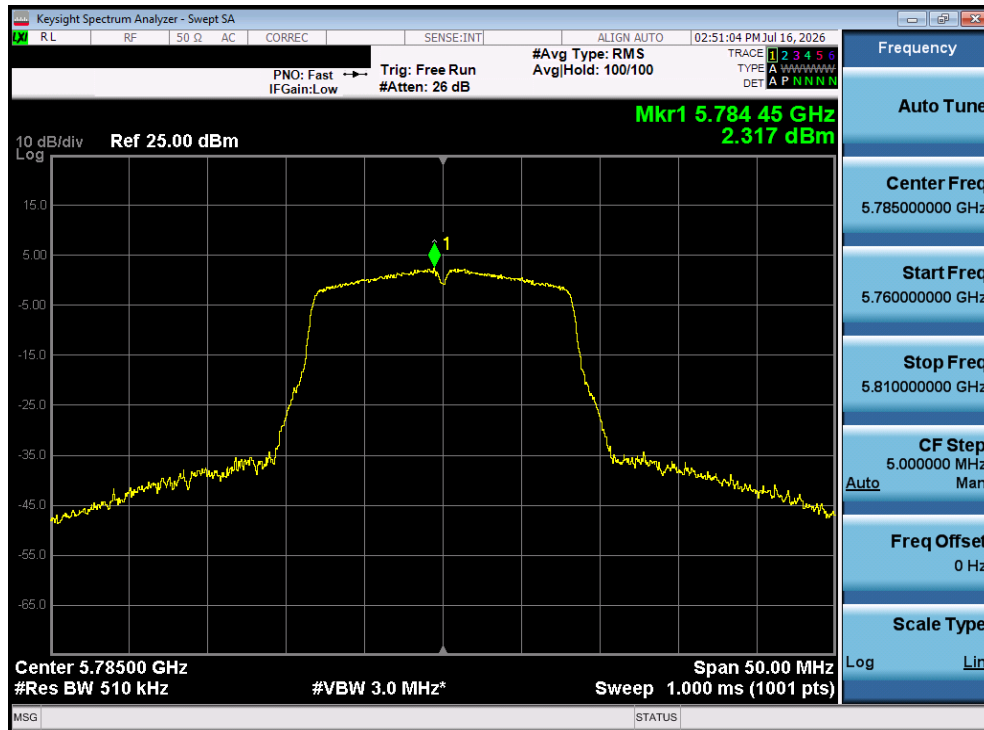


Plot 7-23. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ac (UNII Band 1) – Ch. 38)

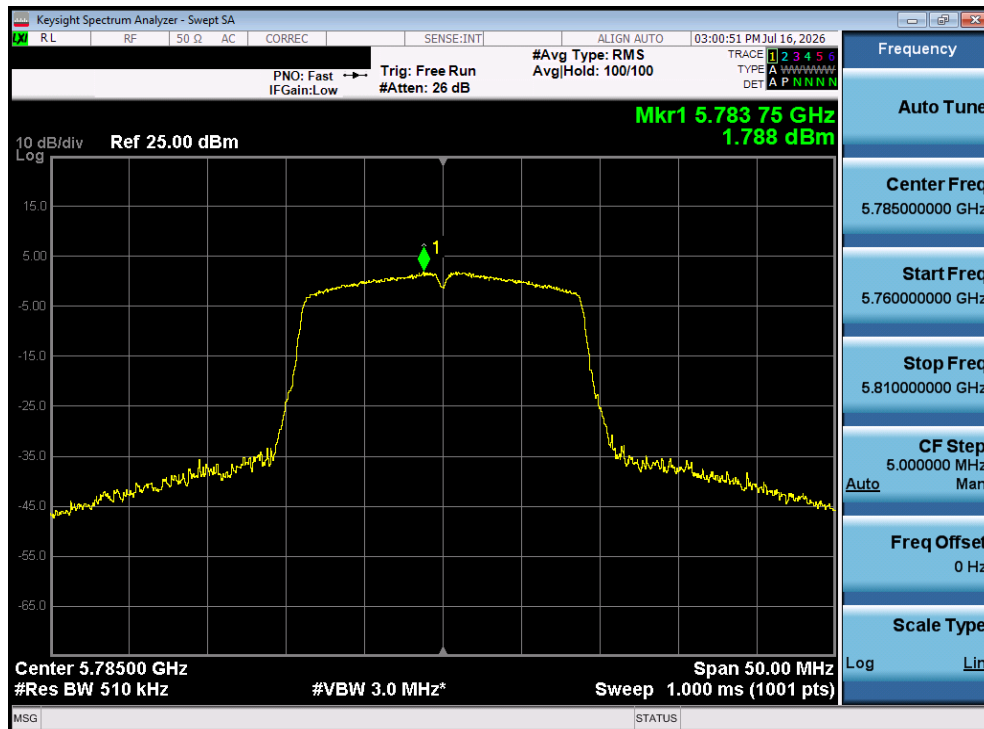


Plot 7-24. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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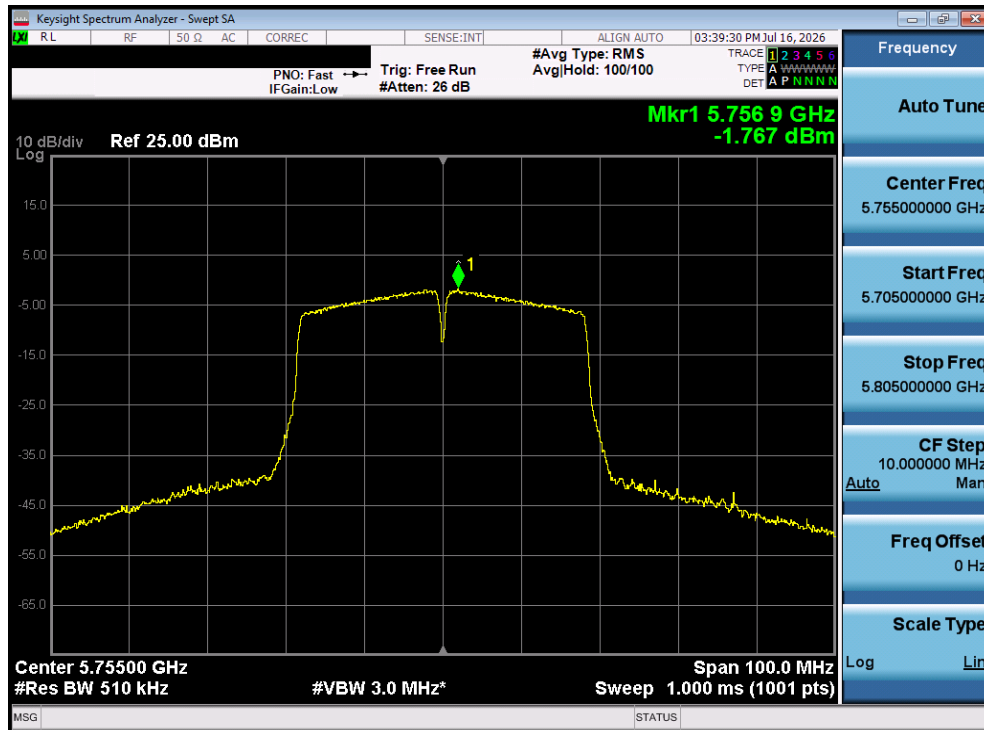


Plot 7-25. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) – Ch. 157)

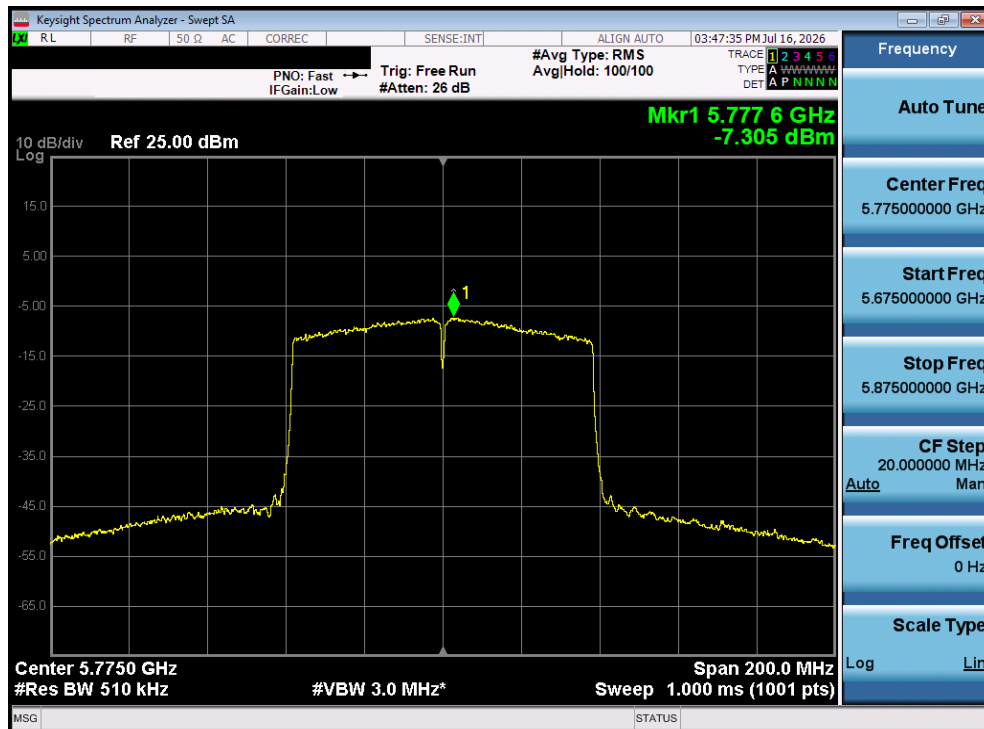


Plot 7-26. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Plot 7-29. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ac (UNII Band 3) – Ch. 151)



Plot 7-30. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Sample Power Spectral Density Calculation:

At 5180MHz in 802.11a (20MHz BW) mode, the average power density was calculated to be 3.88 dBm with directional gain of -2.20 dBi.

$$\text{Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$3.88 \text{ dBm} + -2.20 \text{ dBi} = 1.68 \text{ dBm}$$

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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7.6 Radiated Emission Measurements

Test Overview and Limit

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

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in the table below per FCC §15.209.

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

Table 7-12. Radiated Limits

Test Procedures Used

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

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

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Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

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

Peak Field Strength Measurements

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

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

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

Test Setup

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

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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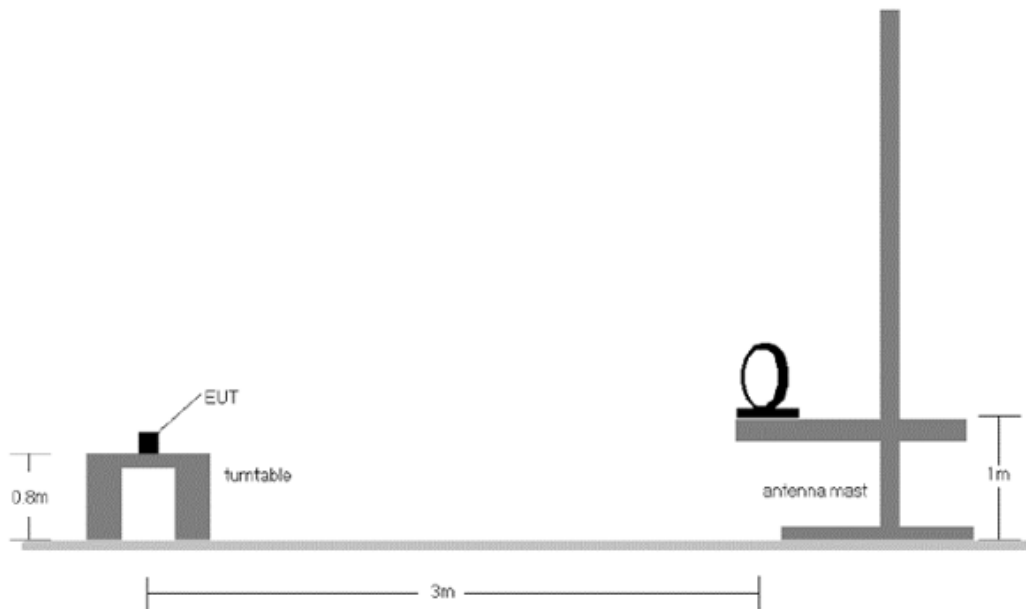


Figure 7-5. Radiated Test Setup < 30MHz

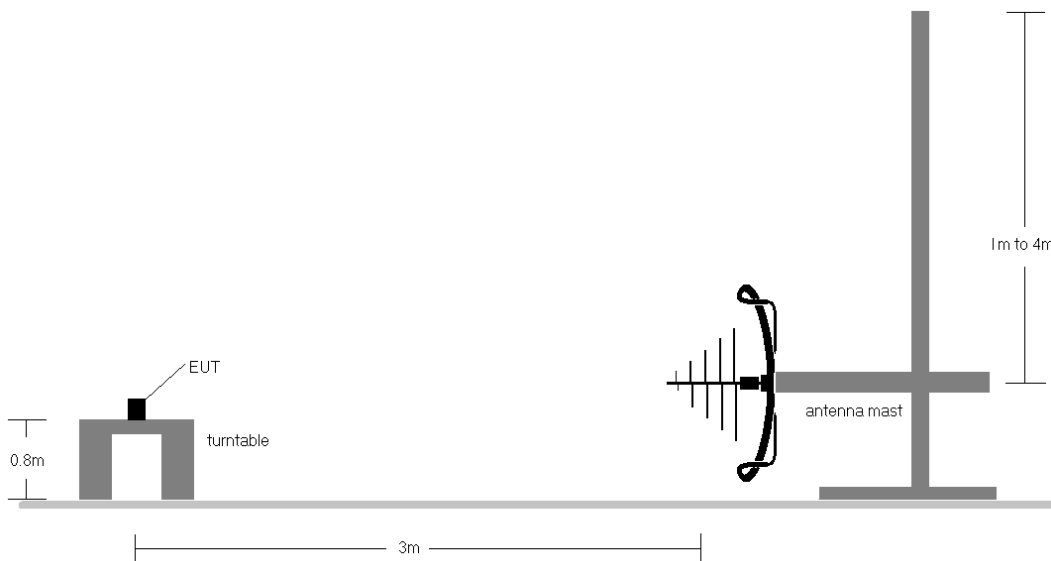


Figure 7-6. Radiated Test Setup < 1GHz

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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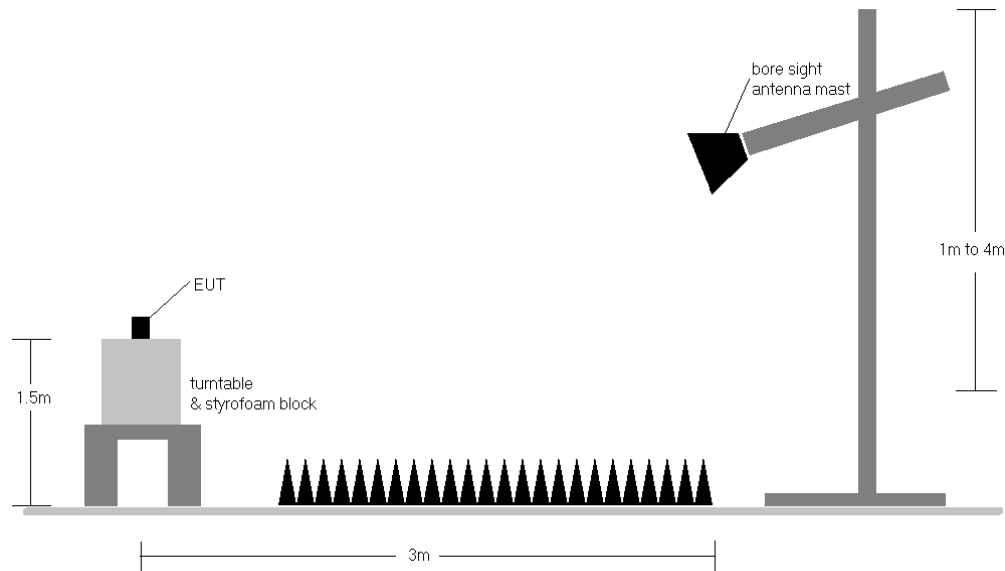


Figure 7-7. Radiated Test Setup > 1GHz

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Test Notes

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

Sample Calculations

Determining Spurious Emissions Levels

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

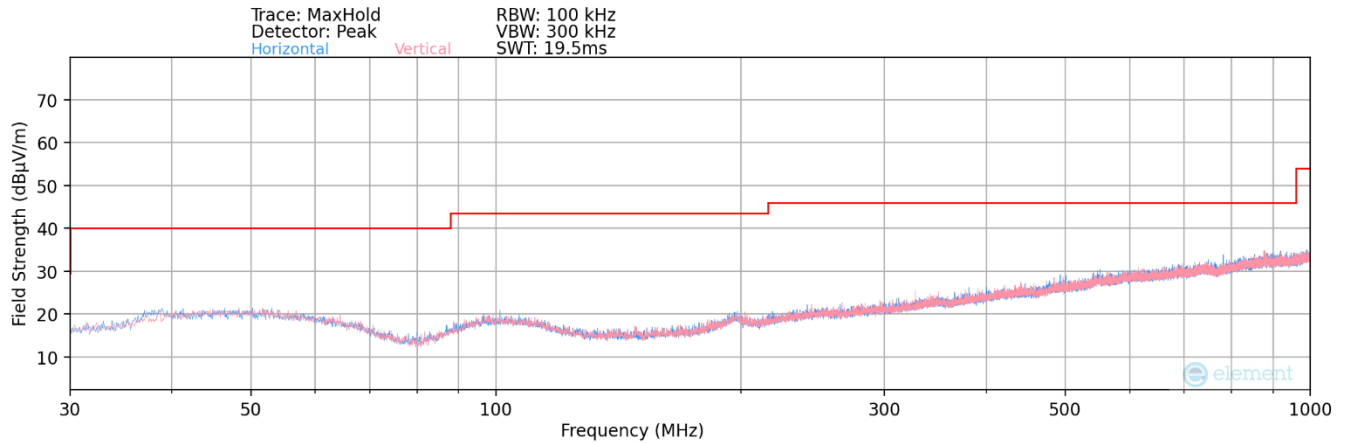
FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 48 of 69

Radiated Band Edge Measurement Offset

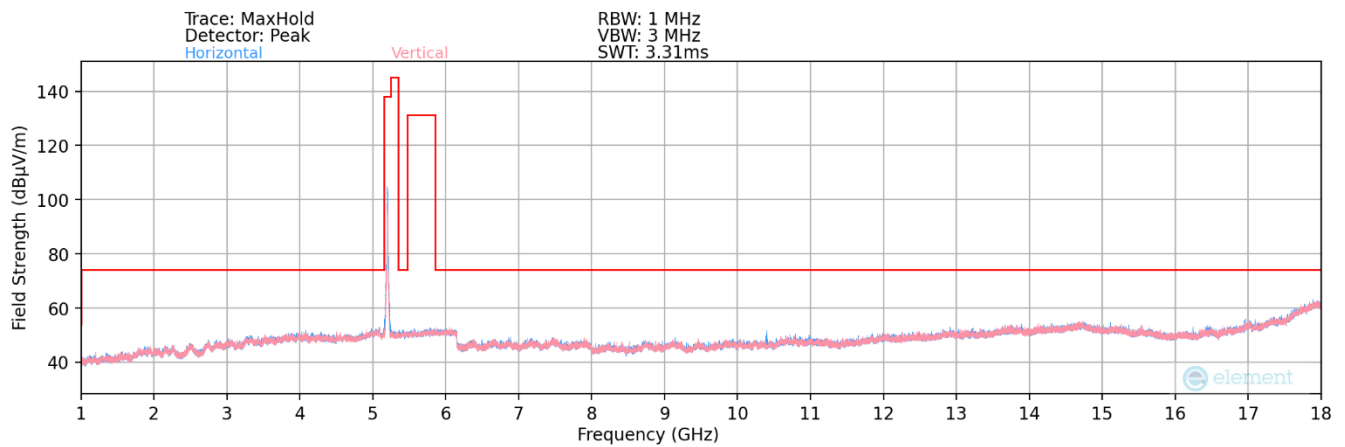
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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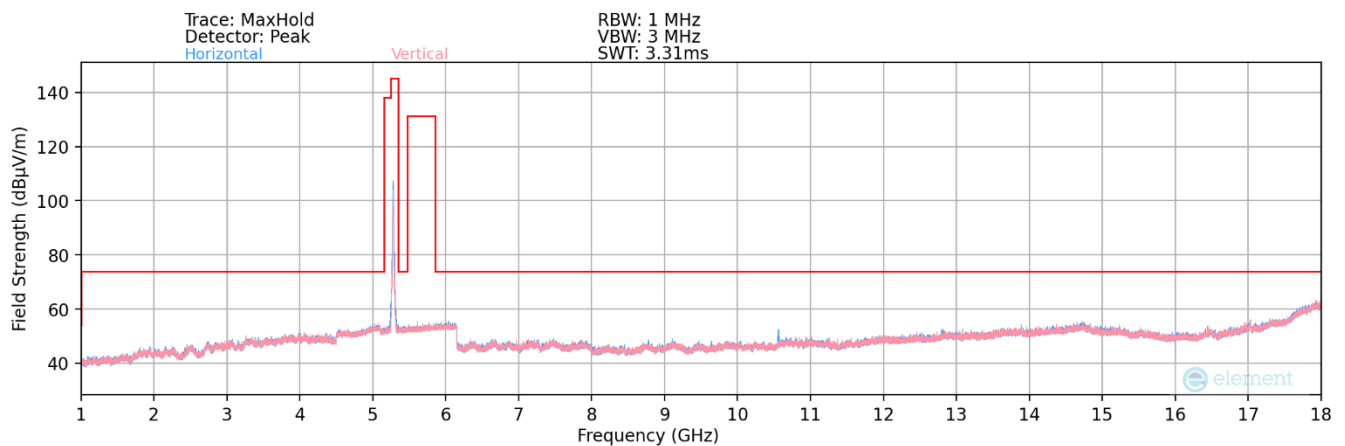
7.6.1 Radiated Spurious Emission Measurements



Plot 7-31. Radiated Spurious Plot below 1GHz ANT1 (802.11a)

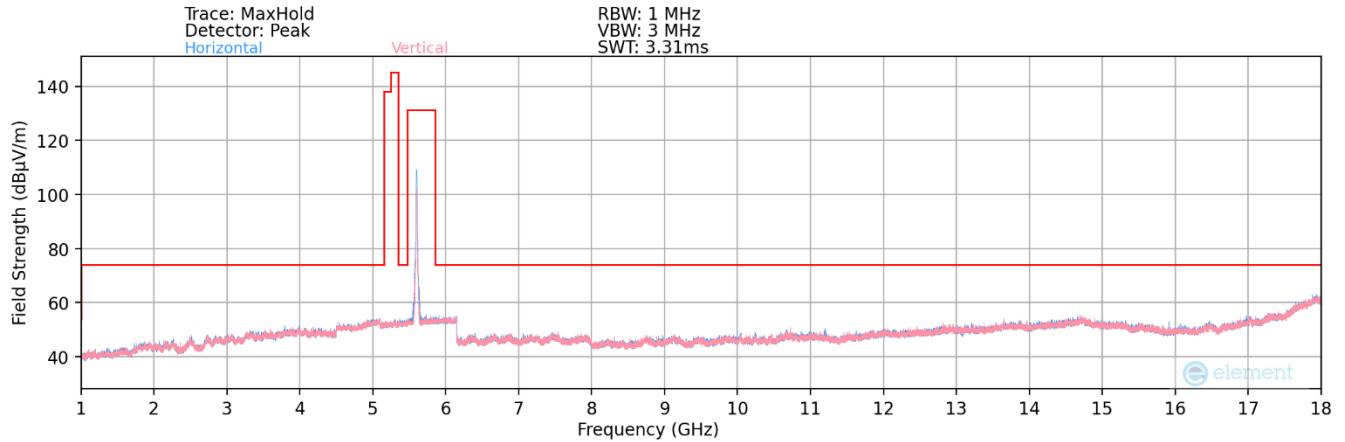


Plot 7-32. Radiated Spurious Plot above 1GHz ANT1 (802.11a – UNII Band 1 Ch. 40)

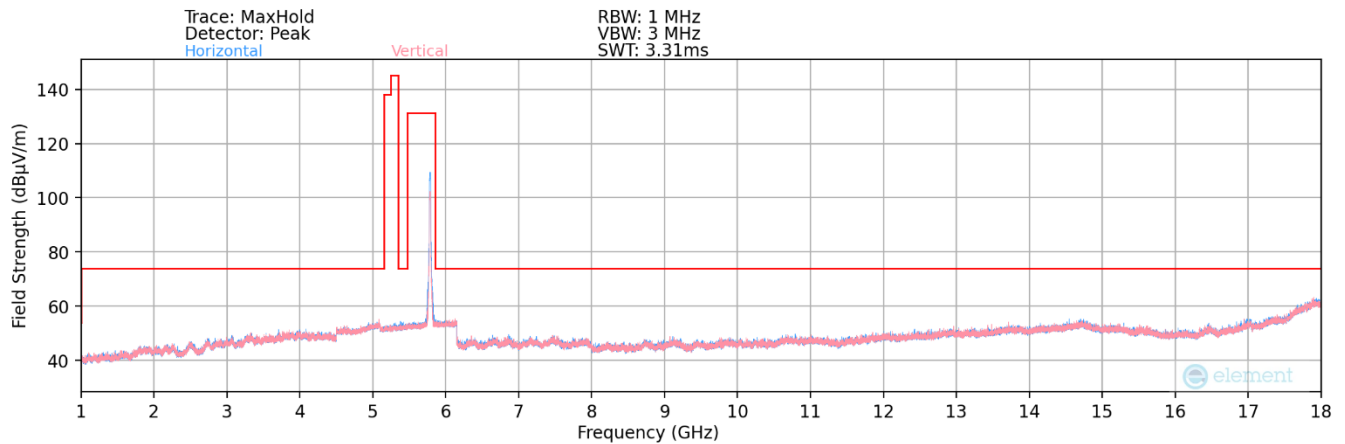


Plot 7-33. Radiated Spurious Plot above 1GHz ANT1 (802.11a – UNII Band 2A Ch. 56)

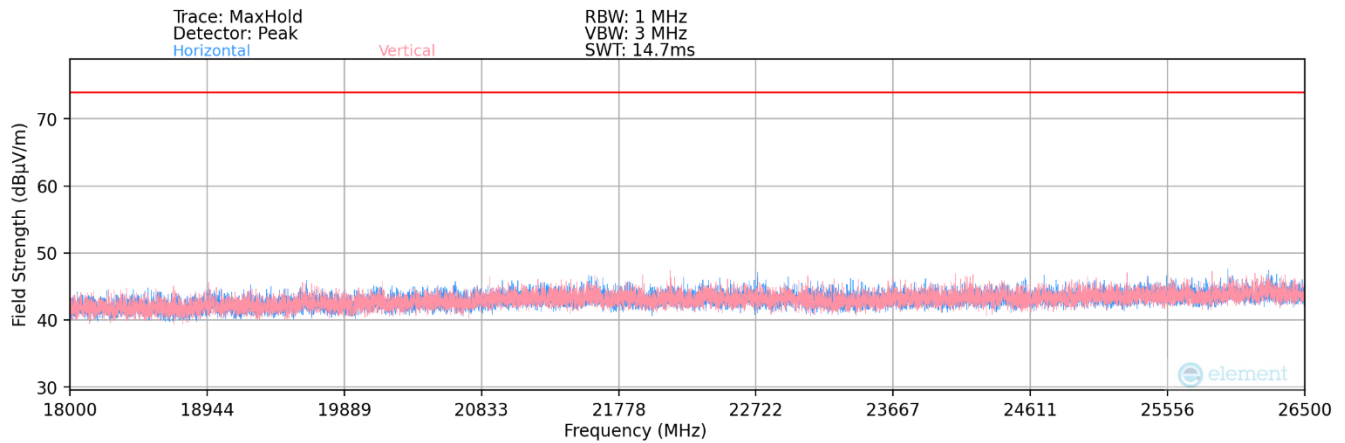
FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 50 of 69



Plot 7-34. Radiated Spurious Plot above 1GHz ANT1 (802.11a – UNII Band 2C Ch. 120)

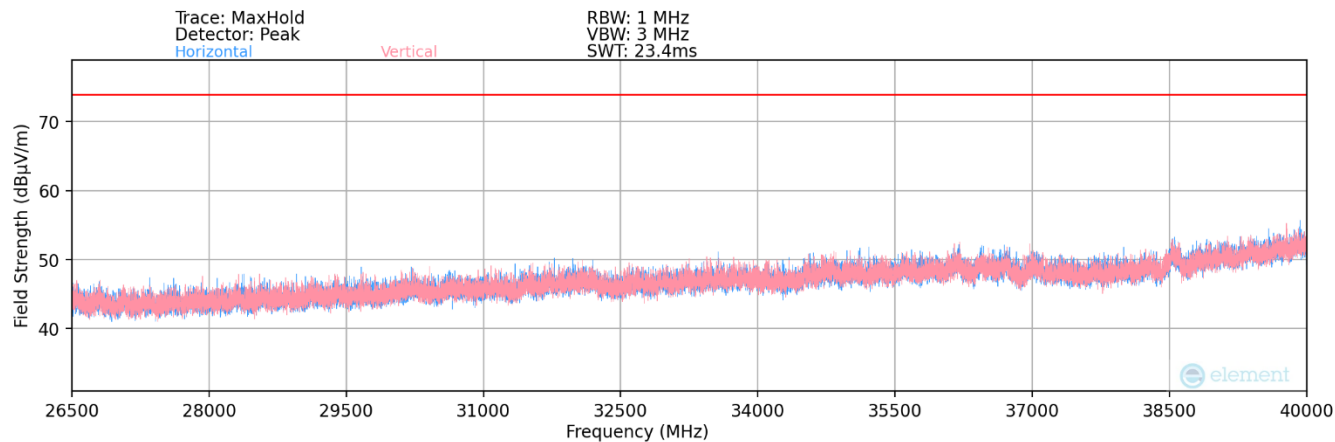


Plot 7-35. Radiated Spurious Plot above 1GHz ANT1 (802.11a – UNII Band 3 Ch. 157)



Plot 7-36. Radiated Spurious Plot 18GHz – 26.5GHz ANT1 (802.11a)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Plot 7-37. Radiated Spurious Plot 26.5GHz – 40GHz ANT1 (802.11a)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Radiated Spurious Emission Measurements – UNII Band 1

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	ANT1	1	36	5180		10360.00	Peak	H	218	335	-64.77	18.07	0.00	60.30	68.20	-7.90
					*	15540.00	Average	H	-	-	-79.74	18.79	0.00	46.05	53.98	-7.93
					*	15540.00	Peak	H	-	-	-68.15	18.79	0.00	57.64	73.98	-16.34
					*	20720.00	Average	H	-	-	-62.35	3.17	-9.54	38.28	53.98	-15.70
					*	20720.00	Peak	H	-	-	-51.23	3.17	-9.54	49.40	73.98	-24.58
						25900.00	Peak	H	-	-	-50.83	3.93	-9.54	50.56	68.20	-17.64
			40	5200		10400.00	Peak	H	226	332	-64.33	18.37	0.00	61.04	68.20	-7.16
					*	15600.00	Average	H	-	-	-79.65	18.30	0.00	45.65	53.98	-8.33
					*	15600.00	Peak	H	-	-	-68.09	18.30	0.00	57.21	73.98	-16.77
					*	20800.00	Average	H	-	-	-62.36	3.23	-9.54	38.33	53.98	-15.65
					*	20800.00	Peak	H	-	-	-51.02	3.23	-9.54	49.67	73.98	-24.31
						26000.00	Peak	H	-	-	-51.22	4.07	-9.54	50.31	68.20	-17.89
			48	5240		10480.00	Peak	H	221	330	-64.59	18.98	0.00	61.39	68.20	-6.81
					*	15720.00	Average	H	-	-	-79.71	18.19	0.00	45.48	53.98	-8.50
					*	15720.00	Peak	H	-	-	-67.71	18.19	0.00	57.48	73.98	-16.50
					*	20960.00	Average	H	-	-	-62.67	3.40	-9.54	38.19	53.98	-15.79
					*	20960.00	Peak	H	-	-	-51.60	3.40	-9.54	49.26	73.98	-24.72
						26200.00	Peak	H	-	-	-51.22	3.84	-9.54	50.08	68.20	-18.12

Table 7-13. Radiated Measurements

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	ANT1	1	40	5200	825.00	Quasi-Peak	H	-	-	-115.15	30.29	0.00	22.14	46.02	-23.88

Table 7-14. Radiated Measurements – Below 1GHz

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Radiated Spurious Emission Measurements – UNII Band 2A

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	ANT1	2A	52	5260		10520.00	Peak	H	237	335	-64.16	18.78	0.00	61.62	68.20	-6.58
					*	15780.00	Average	H	-	-	-79.32	17.91	0.00	45.59	53.98	-8.39
					*	15780.00	Peak	H	-	-	-67.36	17.91	0.00	57.55	73.98	-16.43
					*	21040.00	Average	H	-	-	-62.09	3.53	-9.54	38.90	53.98	-15.08
					*	21040.00	Peak	H	-	-	-51.56	3.53	-9.54	49.43	73.98	-24.55
						26300.00	Peak	H	-	-	-50.86	3.79	-9.54	50.39	68.20	-17.81
			56	5280		10560.00	Peak	H	244	330	-63.57	18.90	0.00	62.33	68.20	-5.87
					*	15840.00	Average	H	-	-	-79.42	17.62	0.00	45.20	53.98	-8.78
					*	15840.00	Peak	H	-	-	-67.40	17.62	0.00	57.22	73.98	-16.76
					*	21120.00	Average	H	-	-	-62.44	3.60	-9.54	38.62	53.98	-15.36
					*	21120.00	Peak	H	-	-	-51.34	3.60	-9.54	49.72	73.98	-24.26
						26400.00	Peak	H	-	-	-51.23	3.64	-9.54	49.87	68.20	-18.33
			64	5320	*	10640.00	Average	H	248	336	-75.82	19.00	0.00	50.18	53.98	-3.80
					*	10640.00	Peak	H	248	336	-63.58	19.00	0.00	62.42	73.98	-11.56
					*	15960.00	Average	H	-	-	-79.24	17.25	0.00	45.01	53.98	-8.97
					*	15960.00	Peak	H	-	-	-67.49	17.25	0.00	56.76	73.98	-17.22
					*	21280.00	Average	H	-	-	-62.70	3.65	-9.54	38.41	53.98	-15.57
					*	21280.00	Peak	H	-	-	-51.75	3.65	-9.54	49.36	73.98	-24.62
						26600.00	Peak	H	-	-	-51.18	3.84	-9.54	50.12	68.20	-18.08

Table 7-15. Radiated Measurements

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Radiated Spurious Emission Measurements – UNII Band 2C

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	ANT1	2C	100	5500	*	11000.00	Average	H	241	325	-77.70	18.98	0.00	48.28	53.98	-5.70
					*	11000.00	Peak	H	241	325	-65.77	18.98	0.00	60.21	73.98	-13.77
						16500.00	Peak	H	-	-	-67.28	15.93	0.00	55.65	68.20	-12.55
						22000.00	Peak	H	-	-	-51.50	3.57	-9.54	49.53	68.20	-18.67
						27500.00	Peak	H	-	-	-50.85	4.02	-9.54	50.63	68.20	-17.57
			120	5600	*	11200.00	Average	H	-	-	-79.88	19.16	0.00	46.28	53.98	-7.70
					*	11200.00	Peak	H	-	-	-67.71	19.16	0.00	58.45	73.98	-15.53
						16800.00	Peak	H	-	-	-66.18	16.70	0.00	57.52	68.20	-10.68
					*	22400.00	Average	H	-	-	-62.36	3.66	-9.54	38.76	53.98	-15.22
					*	22400.00	Peak	H	-	-	-50.73	3.66	-9.54	50.39	73.98	-23.59
						28000.00	Peak	H	-	-	-51.48	4.35	-9.54	50.33	68.20	-17.87
			144	5720	*	11440.00	Average	H	-	-	-79.95	18.09	0.00	45.14	53.98	-8.84
					*	11440.00	Peak	H	-	-	-68.42	18.09	0.00	56.67	73.98	-17.31
						17160.00	Peak	H	-	-	-67.25	18.95	0.00	58.70	68.20	-9.50
					*	22880.00	Average	H	-	-	-62.56	3.60	-9.54	38.50	53.98	-15.48
					*	22880.00	Peak	H	-	-	-50.96	3.60	-9.54	50.10	73.98	-23.88
						28600.00	Peak	H	-	-	-51.75	4.74	-9.54	50.45	68.20	-17.75

Table 7-16. Radiated Measurements

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Radiated Spurious Emission Measurements – UNII Band 3

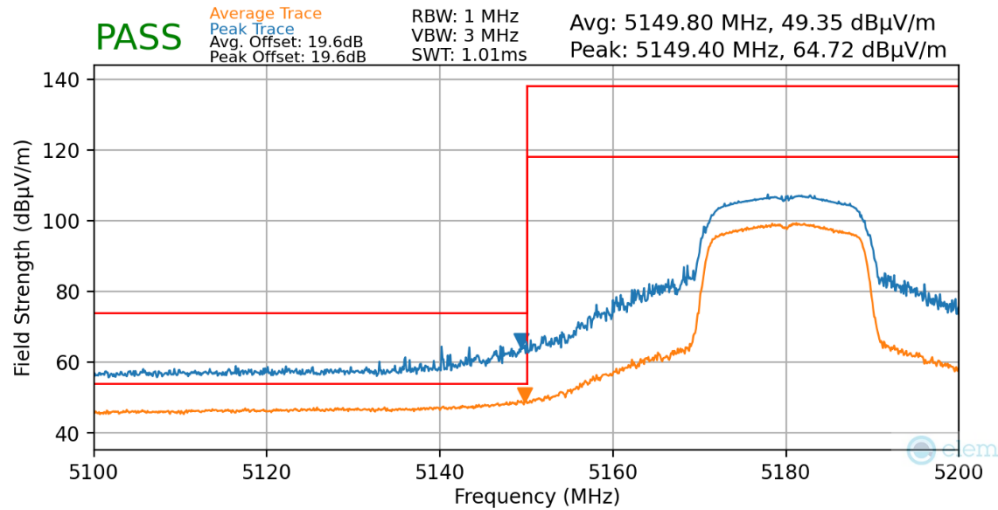
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	ANT1	3	149	5745	*	11490.00	Average	H	-	-	-79.68	17.98	0.00	45.30	53.98	-8.68
					*	11490.00	Peak	H	-	-	-68.15	17.98	0.00	56.83	73.98	-17.15
						17235.00	Peak	H	-	-	-66.93	19.36	0.00	59.43	68.20	-8.77
					*	22980.00	Average	H	-	-	-62.84	3.62	-9.54	38.24	53.98	-15.74
					*	22980.00	Peak	H	-	-	-51.03	3.62	-9.54	50.05	73.98	-23.93
						28725.00	Peak	H	-	-	-52.02	4.94	-9.54	50.38	68.20	-17.82
			157	5785	*	11570.00	Average	H	-	-	-79.93	17.56	0.00	44.63	53.98	-9.35
					*	11570.00	Peak	H	-	-	-67.92	17.56	0.00	56.64	73.98	-17.34
						17355.00	Peak	H	-	-	-67.98	20.76	0.00	59.78	68.20	-8.42
						23140.00	Peak	H	-	-	-51.84	3.59	-9.54	49.21	68.20	-18.99
						28925.00	Peak	H	-	-	-51.98	4.92	-9.54	50.40	68.20	-17.80
			165	5825	*	11650.00	Average	H	-	-	-80.11	17.30	0.00	44.19	53.98	-9.79
					*	11650.00	Peak	H	-	-	-68.69	17.30	0.00	55.61	73.98	-18.37
						17475.00	Peak	H	-	-	-67.71	22.15	0.00	61.44	68.20	-6.76
						23300.00	Peak	H	-	-	-51.58	3.39	-9.54	49.27	68.20	-18.93
						29125.00	Peak	H	-	-	-51.91	5.00	-9.54	50.55	68.20	-17.65

Table 7-17. Radiated Measurements

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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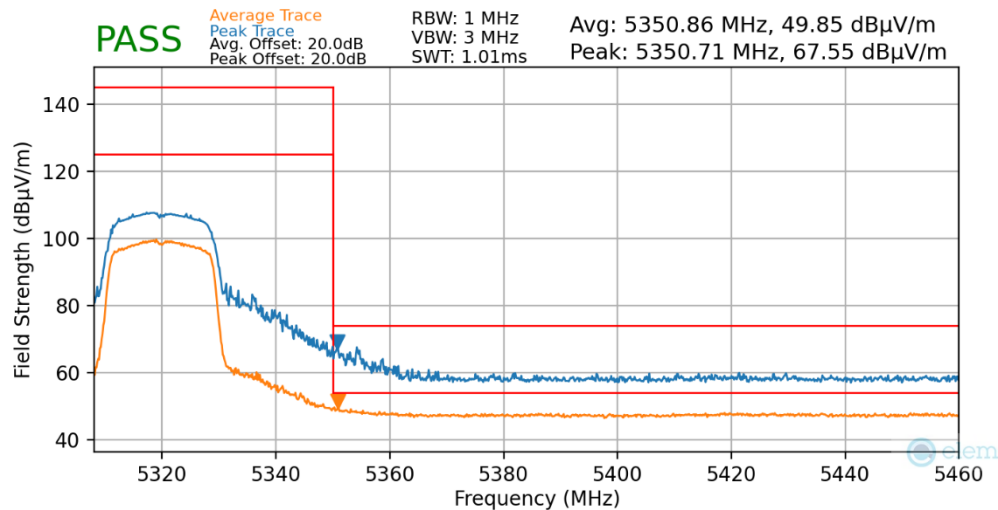
7.6.2 SISO Radiated Band Edge Measurements (20MHz BW)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36



Plot 7-38. Radiated Lower Band Edge Plot Ant1 (Average & Peak – UNII Band 1)

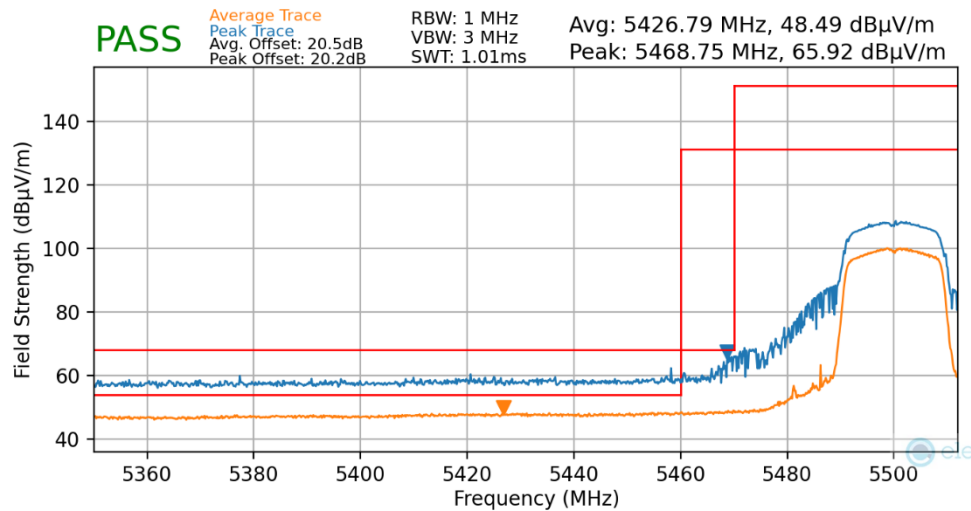
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



Plot 7-39. Radiated Upper Band Edge Plot Ant1 (Average & Peak – UNII Band 2A)

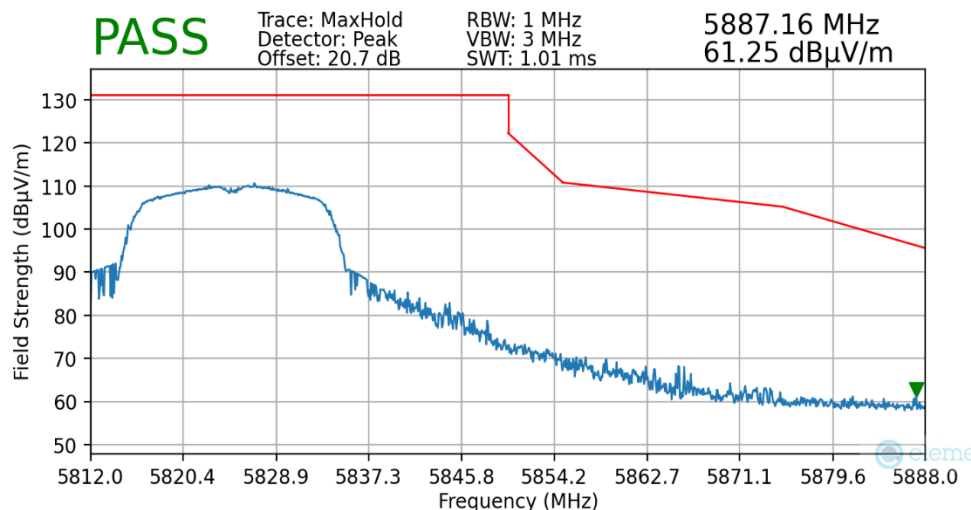
FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 57 of 69

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100



Plot 7-40. Radiated Lower Band Edge Plot Ant1 (Average & Peak – UNII Band 2C)

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5825MHz
Channel: 165

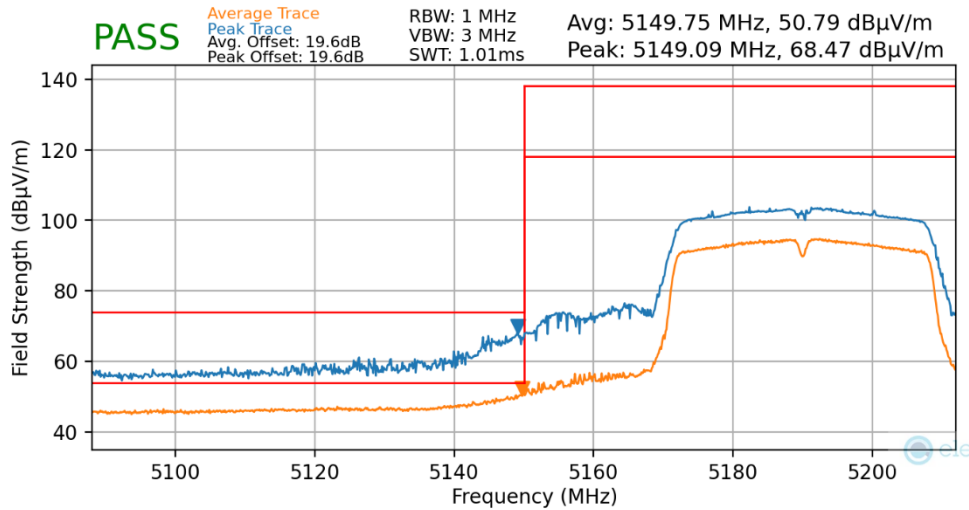


Plot 7-41. Radiated Upper Band Edge Plot Ant1 (Peak – UNII Band 3)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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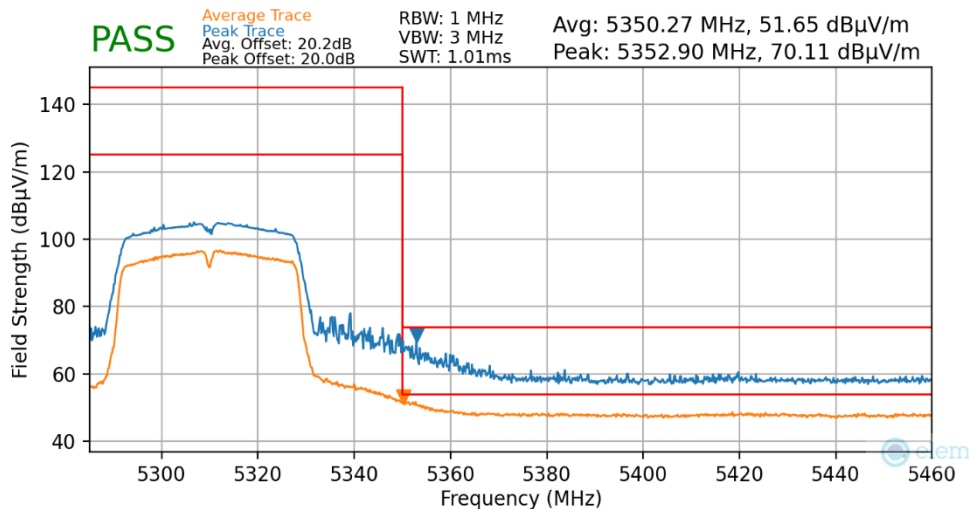
7.6.3 Radiated Band Edge Measurements (40MHz BW)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



Plot 7-42. Radiated Lower Band Edge Plot ANT1 (Average & Peak – UNII Band 1)

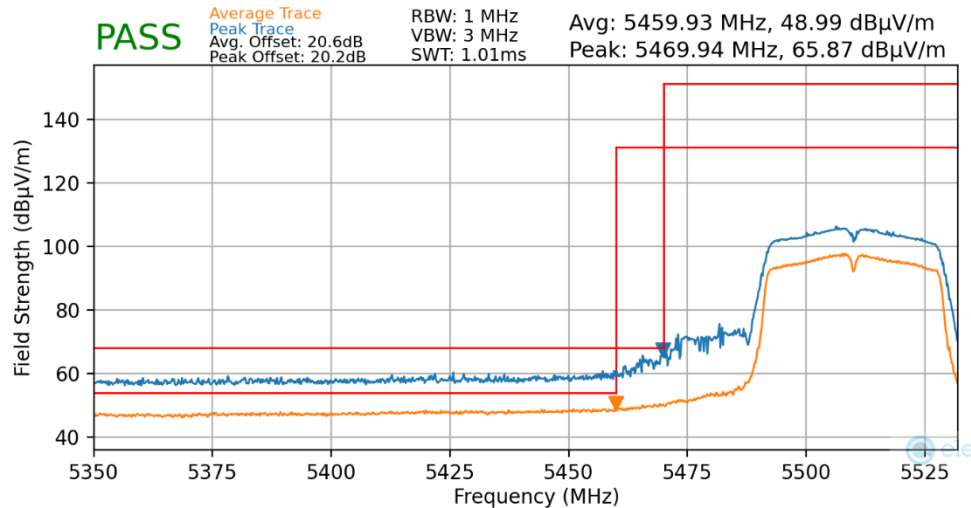
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-43. Radiated Upper Band Edge Plot ANT1 (Average & Peak – UNII Band 2A)

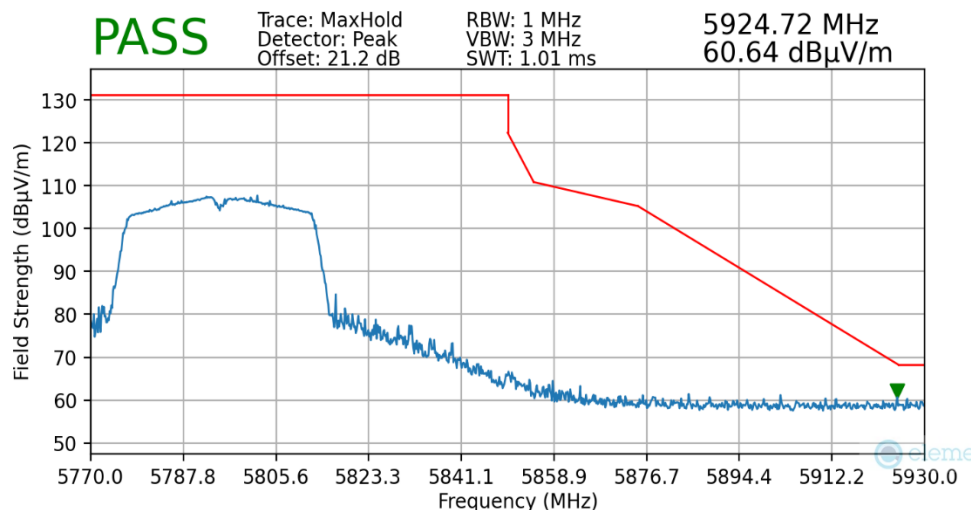
FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 59 of 69

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



Plot 7-44. Radiated Lower Band Edge Plot ANT1 (Average & Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159

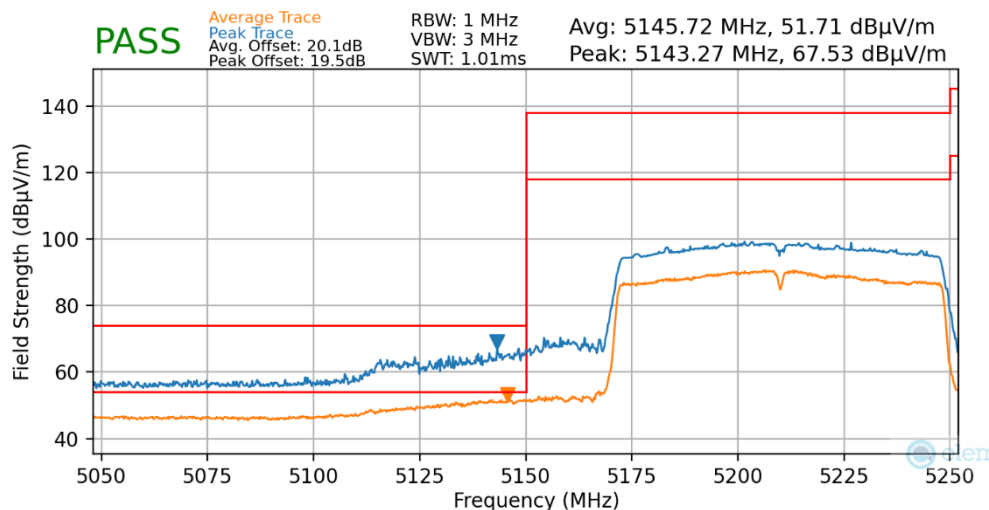


Plot 7-45. Radiated Upper Band Edge Plot ANT1 (Peak – UNII Band 3)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

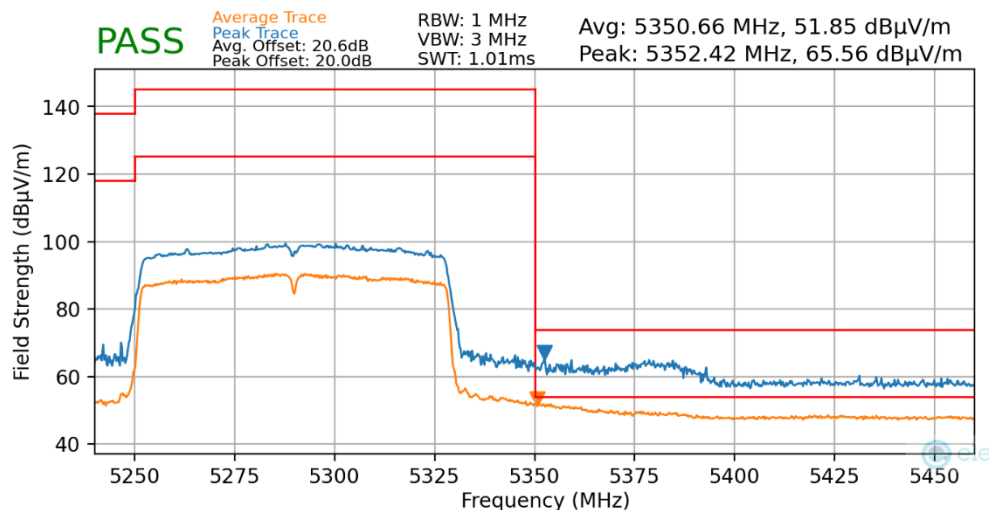
7.6.4 Radiated Band Edge Measurements (80MHz BW)

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5210MHz
Channel: 42



Plot 7-46. Radiated Lower Band Edge Plot ANT1 (Average & Peak – UNII Band 1)

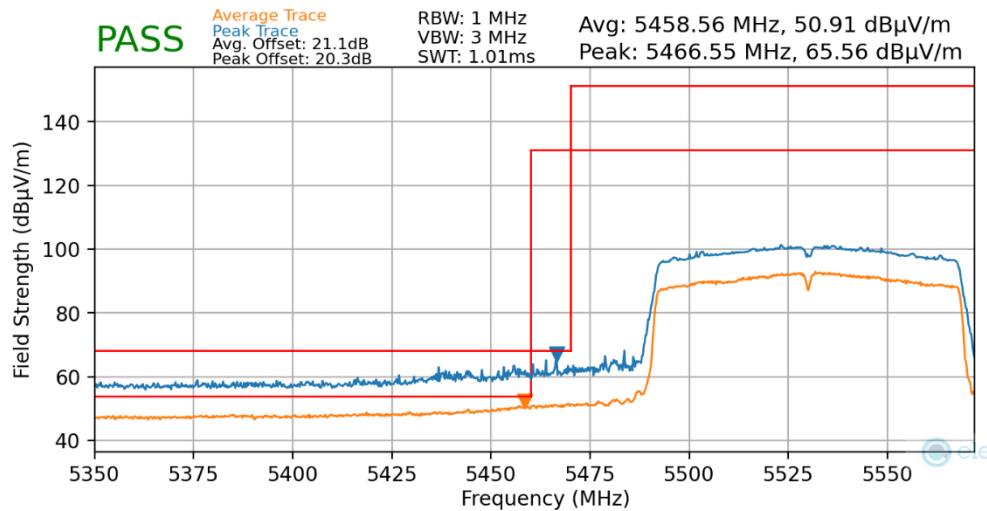
Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5290MHz
Channel: 58



Plot 7-47. Radiated Upper Band Edge Plot ANT1 (Average & Peak – UNII Band 2A)

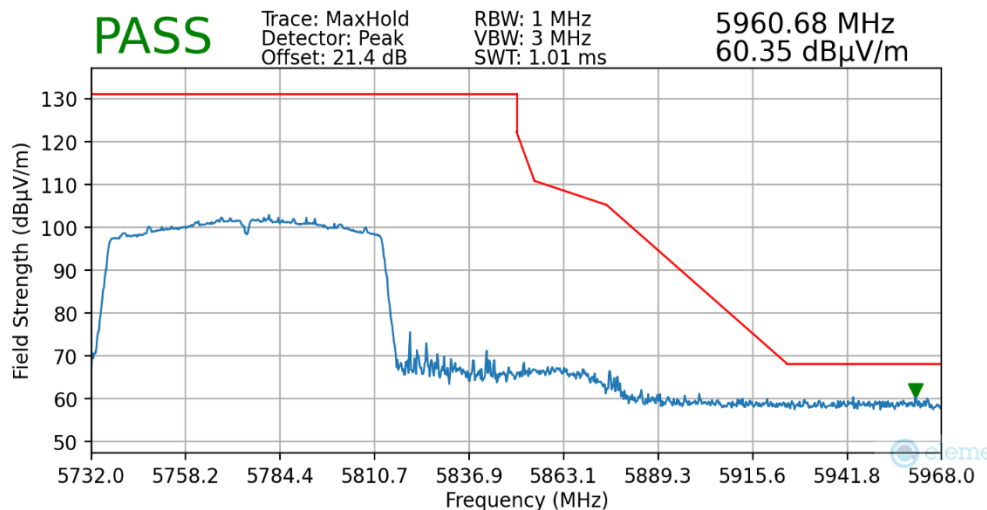
FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 61 of 69

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106



Plot 7-48. Radiated Lower Band Edge Plot ANT1 (Average & Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Plot 7-49. Radiated Upper Band Edge Plot ANT1 (Peak – UNII Band 3)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-10-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 69

7.7 Line-Conducted Test Data

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst-case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below per FCC §15.207.

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-18. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

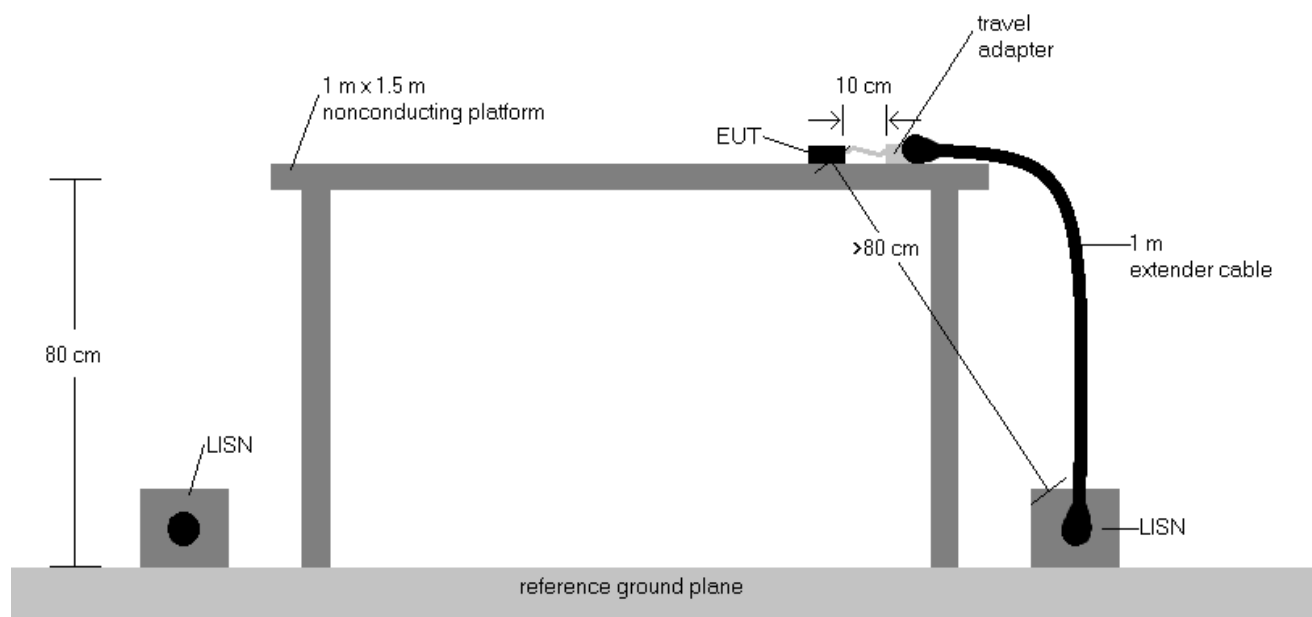
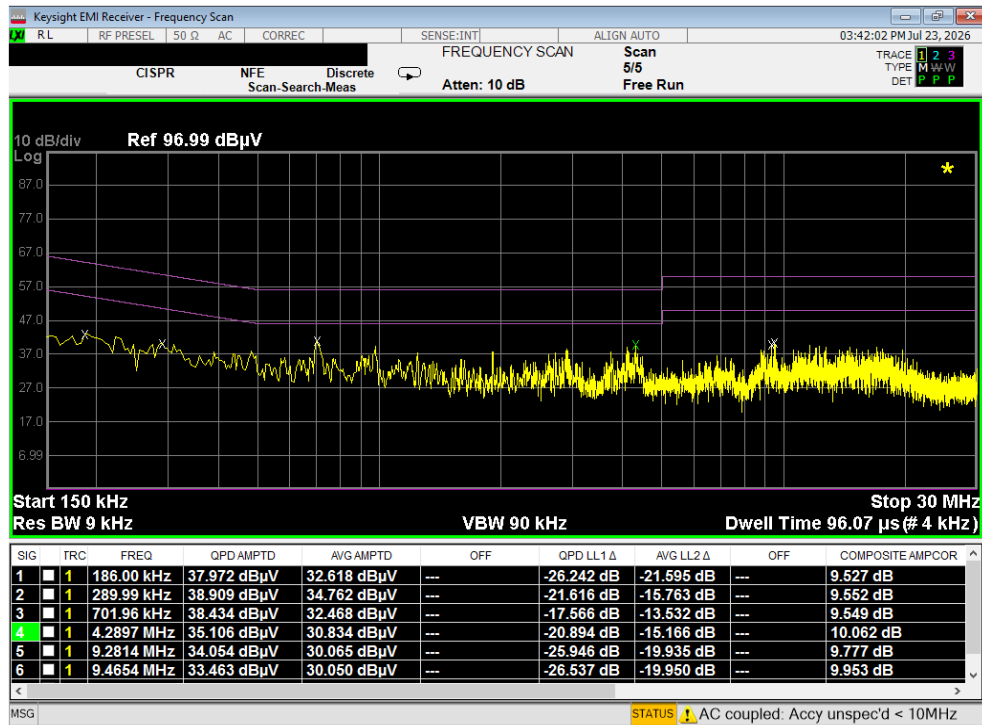


Figure 7-8. Test Instrument & Measurement Setup

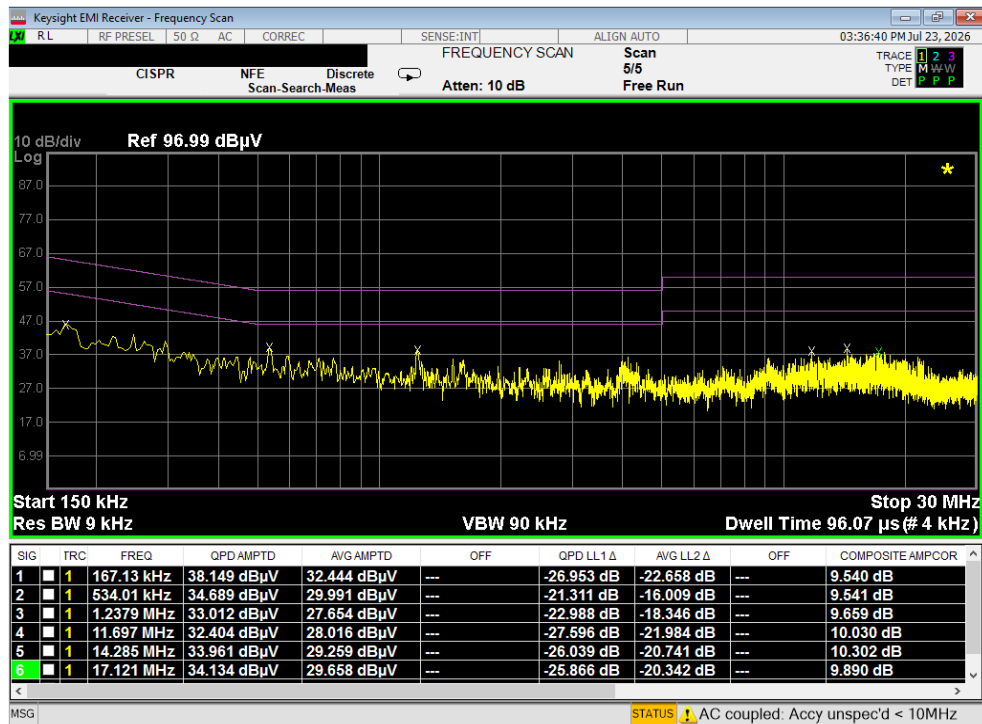
Test Notes

1. All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz is specified in §15.207.
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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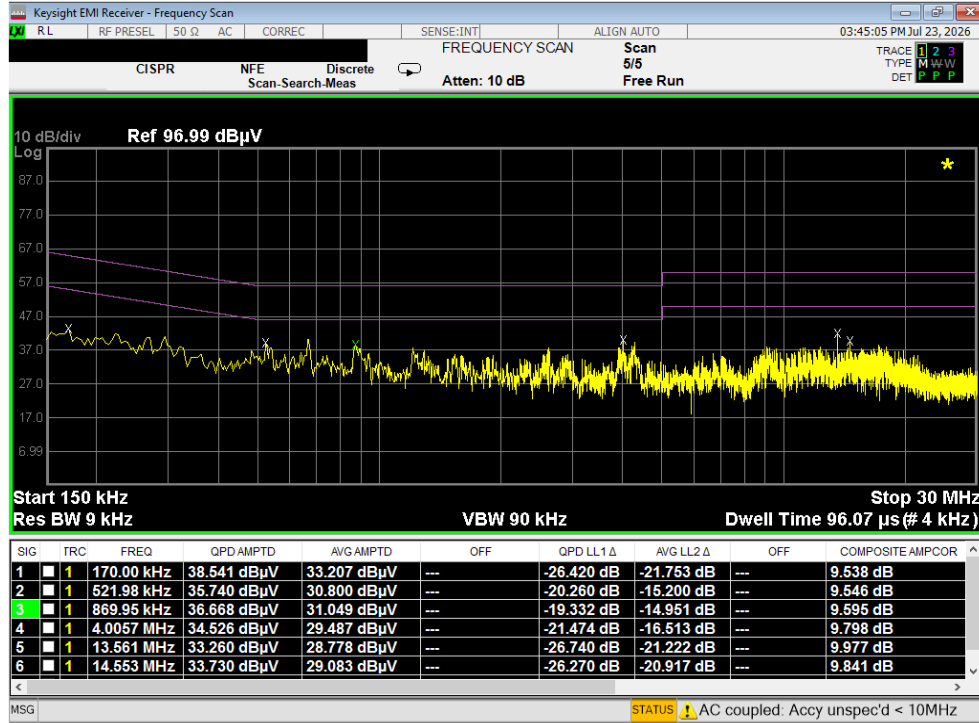


Plot 7-50. Line Conducted Plot with 802.11a UNII Band 1 (L1)

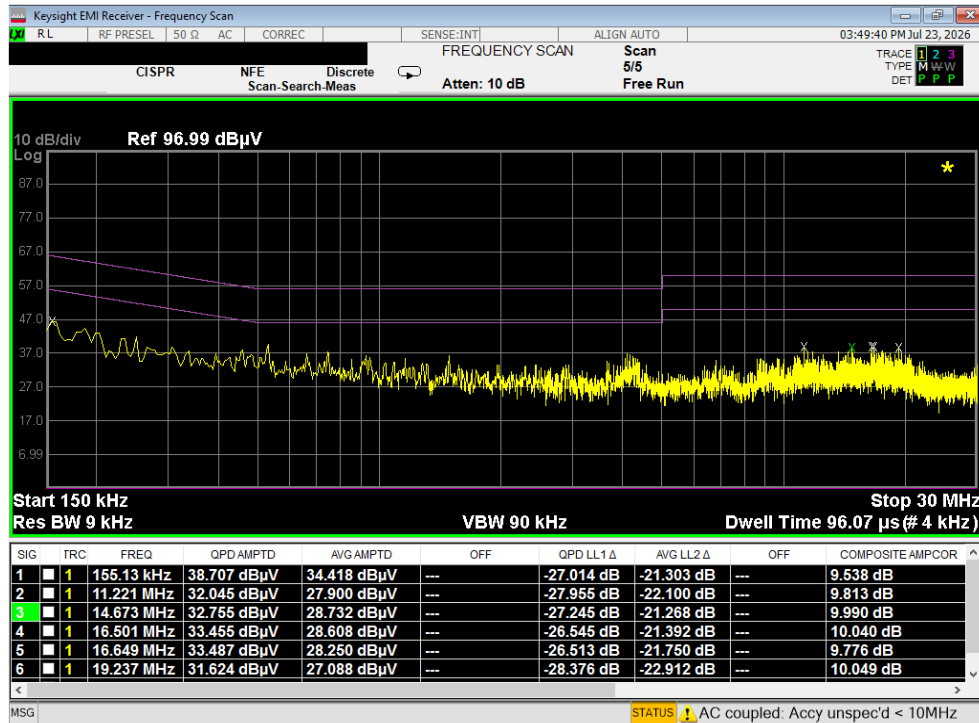


Plot 7-51. Line Conducted Plot with 802.11a UNII Band 1 (N)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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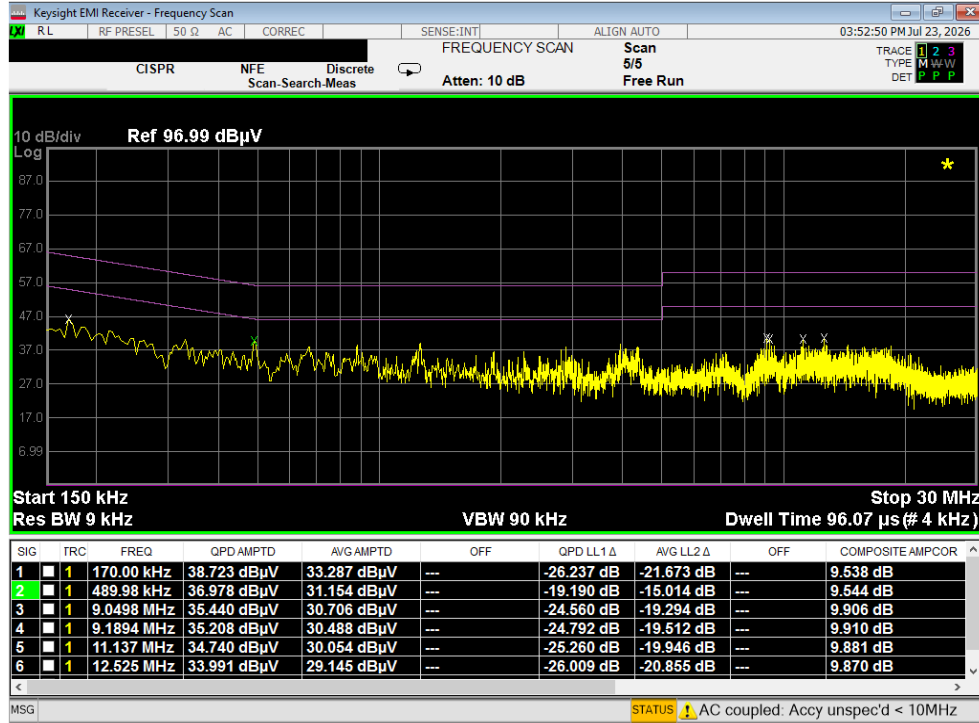


Plot 7-52. Line Conducted Plot with 802.11a UNII Band 2A (L1)

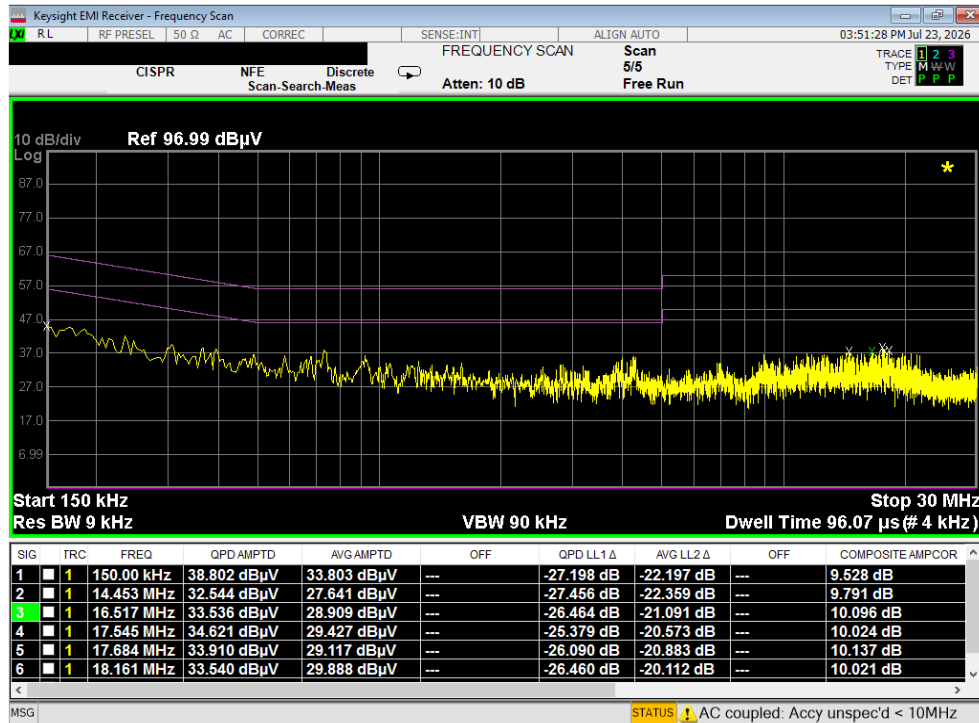


Plot 7-53. Line Conducted Plot with 802.11a UNII Band 2A (N)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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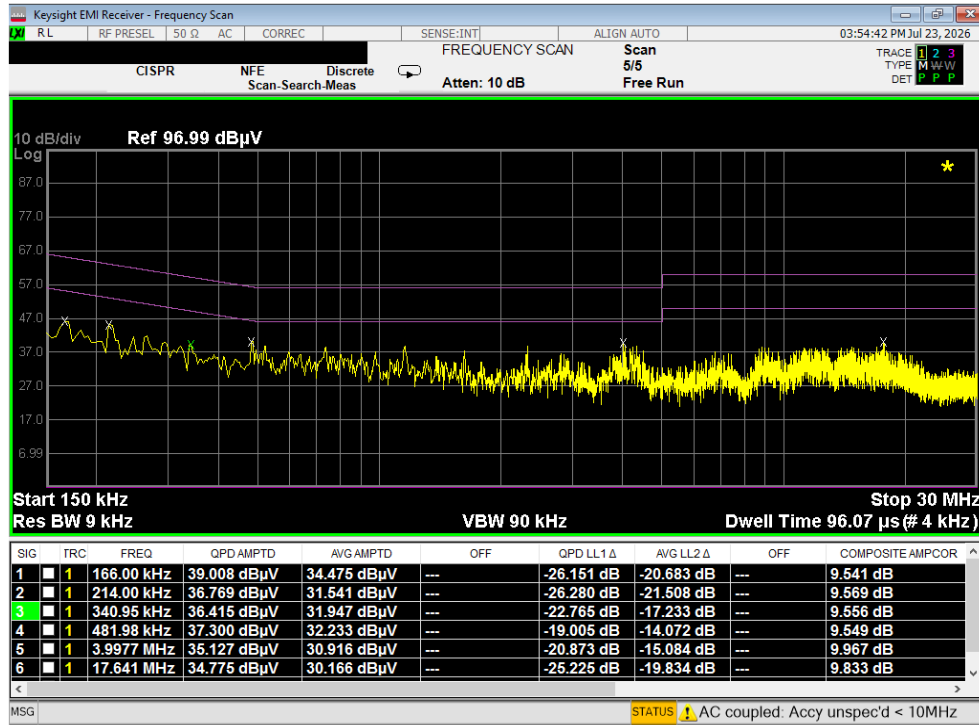


Plot 7-54. Line Conducted Plot with 802.11a UNII Band 2C (L1)

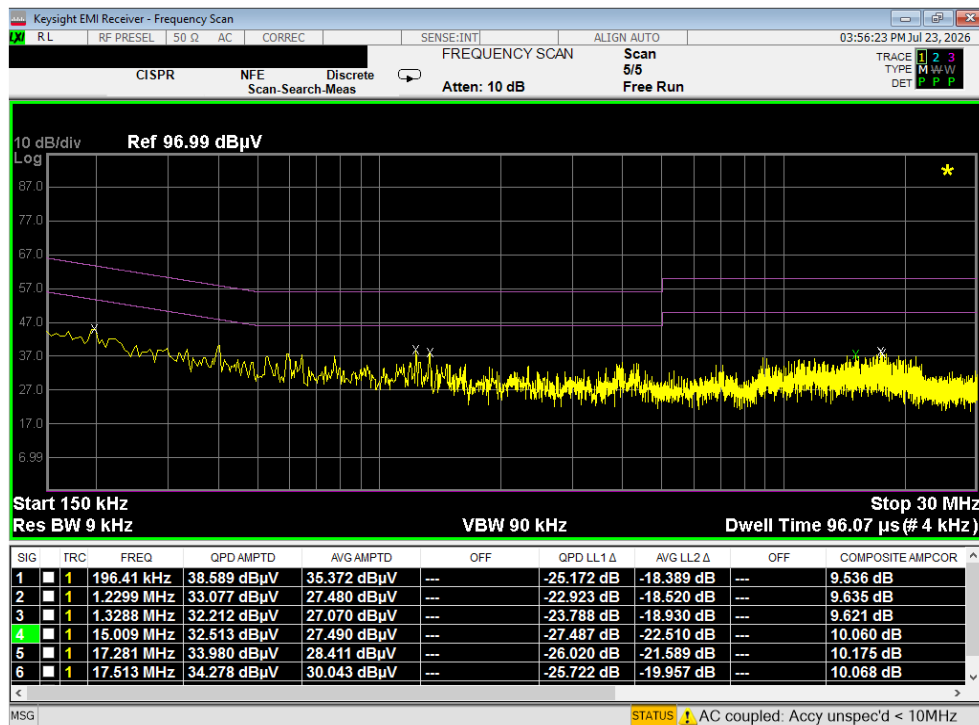


Plot 7-55. Line Conducted Plot with 802.11a UNII Band 2C (N)

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Plot 7-56. Line Conducted Plot with 802.11a UNII Band 3 (L1)



Plot 7-57. Line Conducted Plot with 802.11a UNII Band 3 (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA185G** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

- END OF TEST REPORT -

FCC ID: A3LSMA185G		Test Dates: 7/15/2026 – 7/23/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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