

MEASUREMENT REPORT
FCC PART 15.247 802.11b/g/n (OFDM)

Applicant Name:

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

Date of Testing:

7/15/2026 – 8/11/2026

Test Report Issue Date:

8/13/2026

Test Site/Location:

Element Lab., Yongin-Si, Gyeonggi-do, South Korea
Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2607060061-09-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:

2412 – 2472MHz

Modulation Type:

CCK, DSSS, OFDM

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

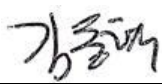
Test Procedure(s):

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: 1M2607060061-09-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2607060061-07.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.



Prepared by



Reviewed by

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 1 of 58

TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	8/12/2026	WKR0000005716
1	Addressed Comments from TCB Reviewer	8/13/2026	WKR0000005826

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 2 of 58

T A B L E O F C O N T E N T S

1.0	INTRODUCTION.....	5
1.1	Scope	5
1.2	Element Test Location.....	5
1.3	Test Facility / Accreditations.....	5
2.0	PRODUCT INFORMATION	6
2.1	Equipment Description	6
2.2	Device Capabilities	6
2.3	Test Configuration	8
2.4	Antenna Description	8
2.5	Software and Firmware	8
2.6	EMI Suppression Device(s) / Modifications	8
3.0	DESCRIPTION OF TESTS	9
3.1	Evaluation Procedure	9
3.2	AC Line Conducted Emissions	9
3.3	Radiated Emissions.....	10
3.4	Environmental Conditions.....	10
4.0	ANTENNA REQUIREMENTS	11
5.0	MEASUREMENT UNCERTAINTY.....	12
6.0	TEST EQUIPMENT CALIBRATION DATA.....	13
7.0	TEST RESULTS.....	14
7.1	Summary	14
7.2	6dB Bandwidth Measurement	15
	SISO 6dB Bandwidth Measurements	17
7.3	Output Power Measurement.....	22
7.4	Power Spectral Density	24
	SISO Power Spectral Density Measurements.....	26
7.5	Conducted Band Edge Emissions	31
	SISO Conducted Band Edge Emissions	32
7.6	Conducted Spurious Emissions.....	39
	SISO Conducted Spurious Emissions	41
7.7	Radiated Emission Measurements.....	44
	SISO Radiated Spurious Emission Measurements	48
	SISO Radiated Restricted Band Edge Measurements.....	52
7.8	Line-Conducted Test Data.....	55
8.0	CONCLUSION	58

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 3 of 58

MEASUREMENT REPORT

Channel Bandwidth [MHz]	IEEE Mode	Tx Frequency [MHz]	Ant1			
			Avg. Conducted		Peak Conducted	
			Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]
20	802.11b	2412 - 2472	79.07	18.98	149.62	21.75
	802.11g	2412 - 2472	48.42	16.85	304.09	24.83
	802.11n	2412 - 2472	47.21	16.74	366.44	25.64

EUT Overview

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 4 of 58

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 Materials Technology Suwon, Ltd. located in Yongin-si, Gyeonggi-do, 16954, South Korea.

- 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

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.
- 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.
- Element Washington DC LLC facility is a registered test laboratory with the site description on file with FCC (Designation Number US1113).

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 5 of 58

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 WLAN (DTS) transmitter.

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

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

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Table 2-1. Frequency \ Channel Operations

Notes:

1. 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 6.0 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]
2.4GHz	b	99.45	N/A
	g	96.79	0.14
	n (HT20)	95.99	0.18

Table 2-2. Measured Duty Cycles

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 6 of 58

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

802.11b	802.11a/g	MCS Index	OFDM (802.11n)	
20MHz	20MHz		20MHz	
		HT	0.8μs GI	0.4μs GI
1	6	0	6.5	7.2
2	9	1	13	14.4
5.5	12	2	19.5	21.7
11	18	3	26	28.9
	24	4	39	43.3
	36	5	52	57.8
	48	6	58.5	65
	54	7	65	72.2

Table 2-3. Supported Data Rates

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 7 of 58

2.3 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 7.8 for AC line conducted emissions test setups, 7.7 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

2.4 Antenna Description

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

Frequency [GHz]	Antenna-1 Gain [dBi]
2.4	-3.90

Table 2-4. Antenna Peak Gain

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.

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 8 of 58

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 line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. 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 ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

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

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

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 9 of 58

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).

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 10 of 58

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 connections to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 11 of 58

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	1.95
Radiated Disturbance (<1GHz)	4.10
Radiated Disturbance (>1GHz)	4.82
Radiated Disturbance (>18GHz)	4.96

Table 5-1. Measurement Uncertainty Budget - KR

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 5-2. Measurement Uncertainty Budget - MD

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 12 of 58

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
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 6-1. Test Equipment Calibration Table - KR

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	ETS-001	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-001
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
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
Sunol	JB5	Bi-Log Antenna (20M-5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Pasternack	NMLC-2	Line Conducted Emissions Cable	1/30/2026	Annual	1/30/2027	NMLC-2
ETS-Lindgren	3816/2NM	Line Impedance Stabilization Network	4/21/2025	Biennial	4/21/2027	114451

Table 6-2. Test Equipment Calibration Table - MD

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.

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. UEK1 EMC Cable and Switch System Components

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

Table 6-4. ETS-001 EMC Cable and Switch System Components

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 13 of 58

7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.

FCC ID: A3LSMA185G

FCC Classification: Digital Transmission System (DTS)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference	Test Lab Location
15.247(a)(2)	6dB Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.	CONDUCTED	PASS	Section 7.2	KR
15.247(b)(3)	Transmitter Output Power	shall not exceed 1 W		PASS	Section 7.3	KR
N/A	e.i.r.p.	shall not exceed 4 W		PASS	Section 7.3	KR
15.247(e)	Transmitter Power Spectral Density	shall not be greater than 8 dBm in any 3 kHz band		PASS	Section 7.4	KR
15.247(d)	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6	KR
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	RADIATED	PASS	Section 7.7	KR/MD
15.207	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits	LINE CONDUCTED	PASS	Section 7.8	MD

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. 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 “WLAN Automation,” Version 3.5.
- 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 Control” Version 1.7.3.

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

7.2 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 transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure Used

ANSI C63.10:2020 – Section 11.8.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
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

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	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

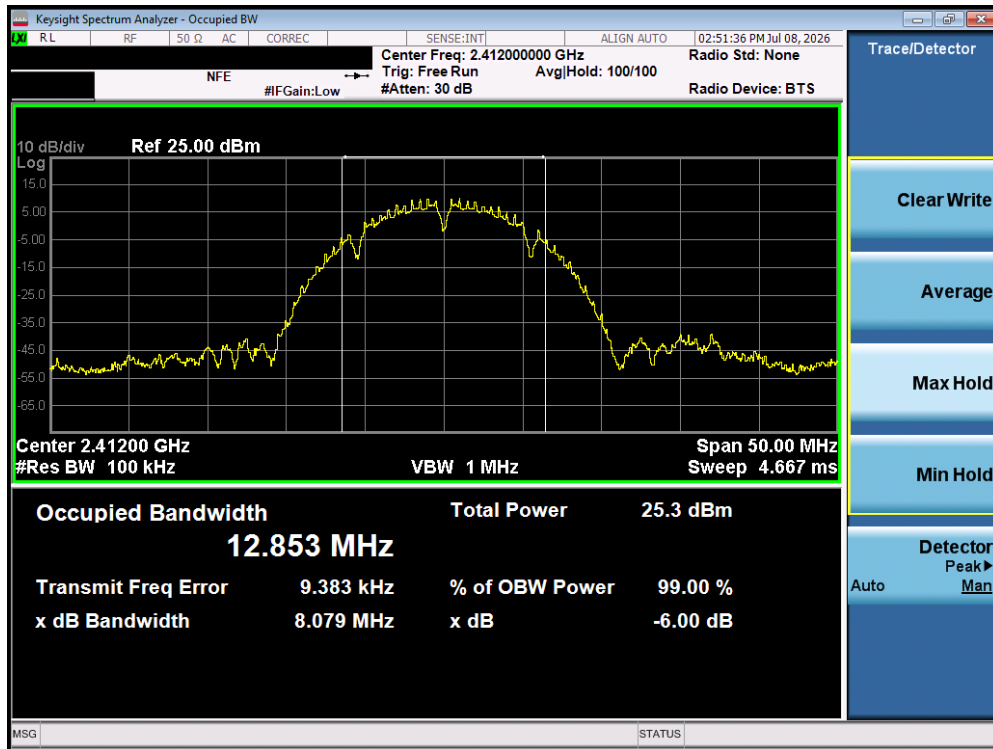
6dB Bandwidth Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]
2412	1	b	1	8.096	0.500
2437	6	b	1	8.074	0.500
2462	11	b	1	8.107	0.500
2412	1	g	6	15.49	0.500
2437	6	g	6	15.48	0.500
2462	11	g	6	15.18	0.500
2412	1	n	6.5/7.2 (MCS0)	15.49	0.500
2437	6	n	6.5/7.2 (MCS0)	15.88	0.500
2462	11	n	6.5/7.2 (MCS0)	15.27	0.500

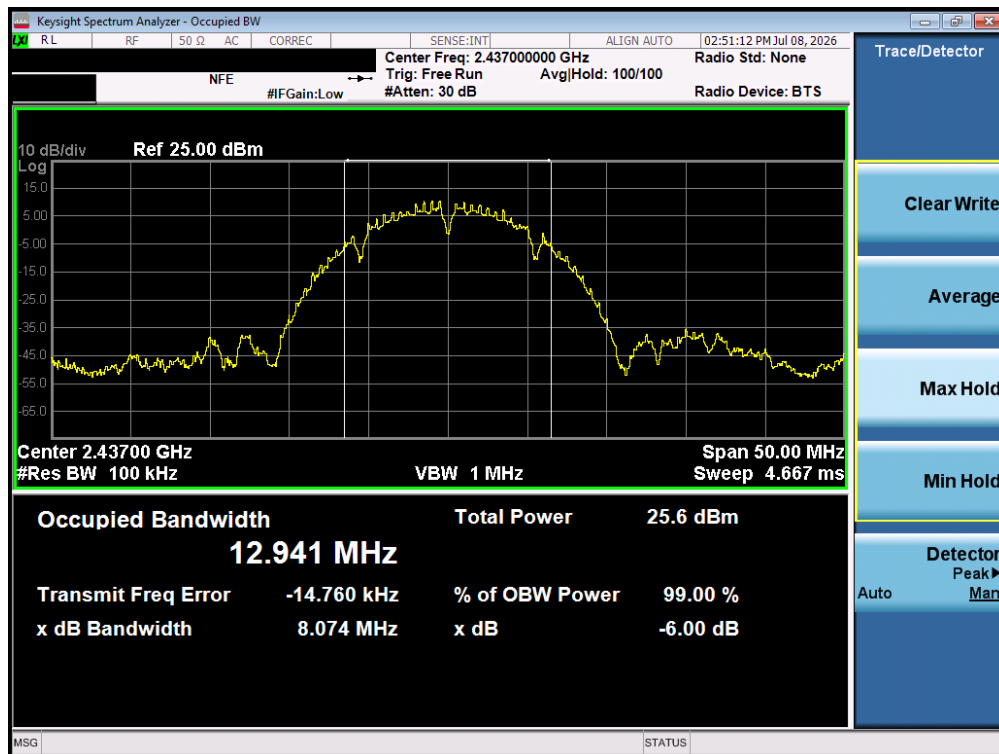
Table 7-2. Conducted 6dB Bandwidth Measurements SISO

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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SISO 6dB Bandwidth Measurements

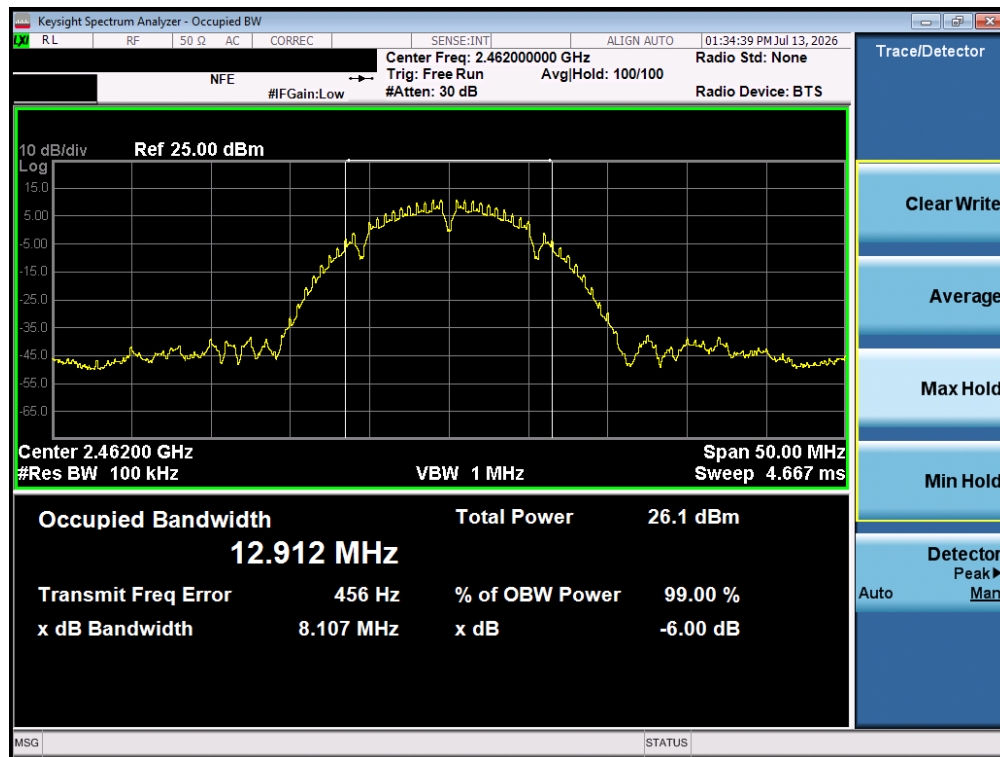


Plot 7-1. 6dB Bandwidth Plot SISO ANT1 (802.11b – Ch. 1)

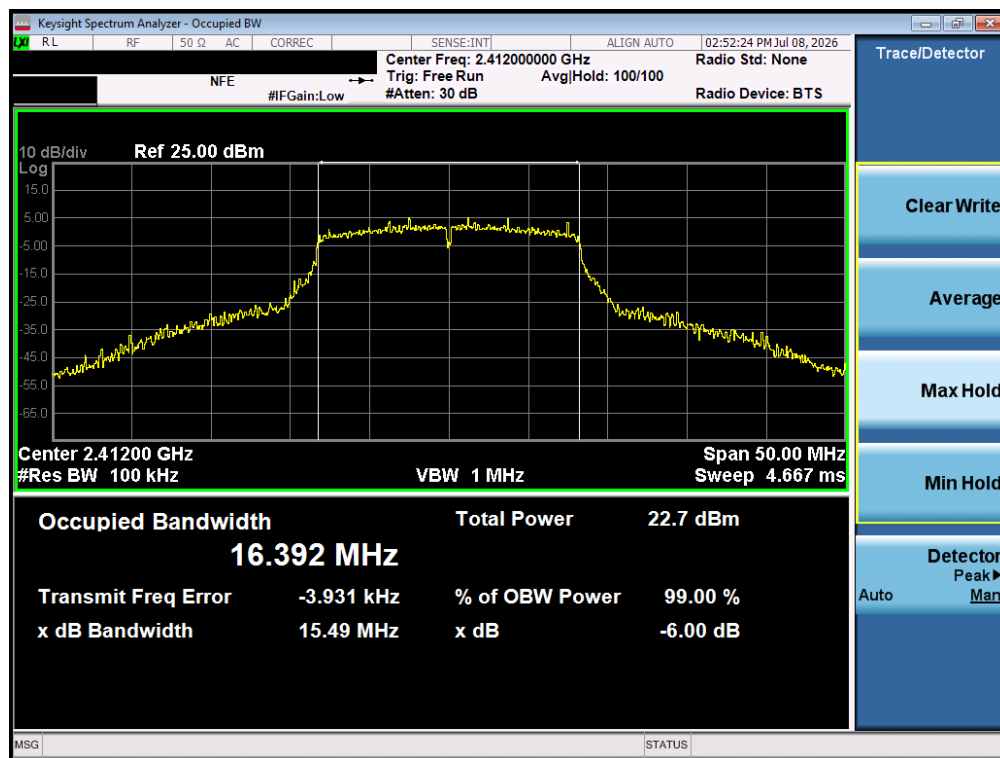


Plot 7-2. 6dB Bandwidth Plot SISO ANT1 (802.11b – Ch. 6)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

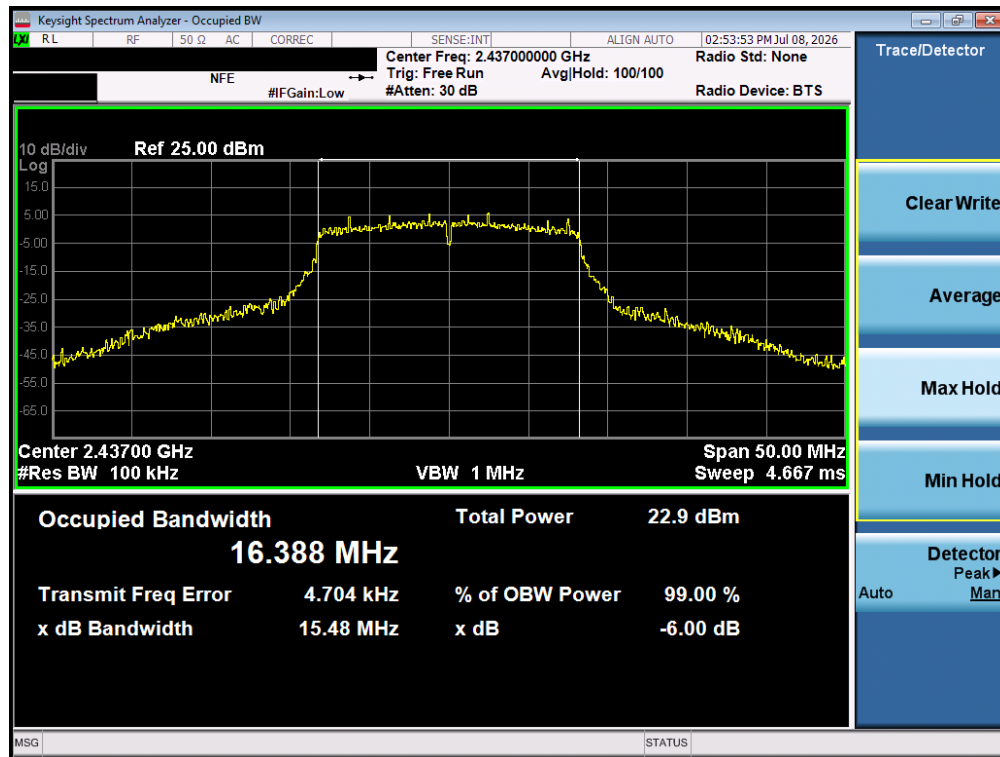


Plot 7-3. 6dB Bandwidth Plot SISO ANT1 (802.11b – Ch. 11)

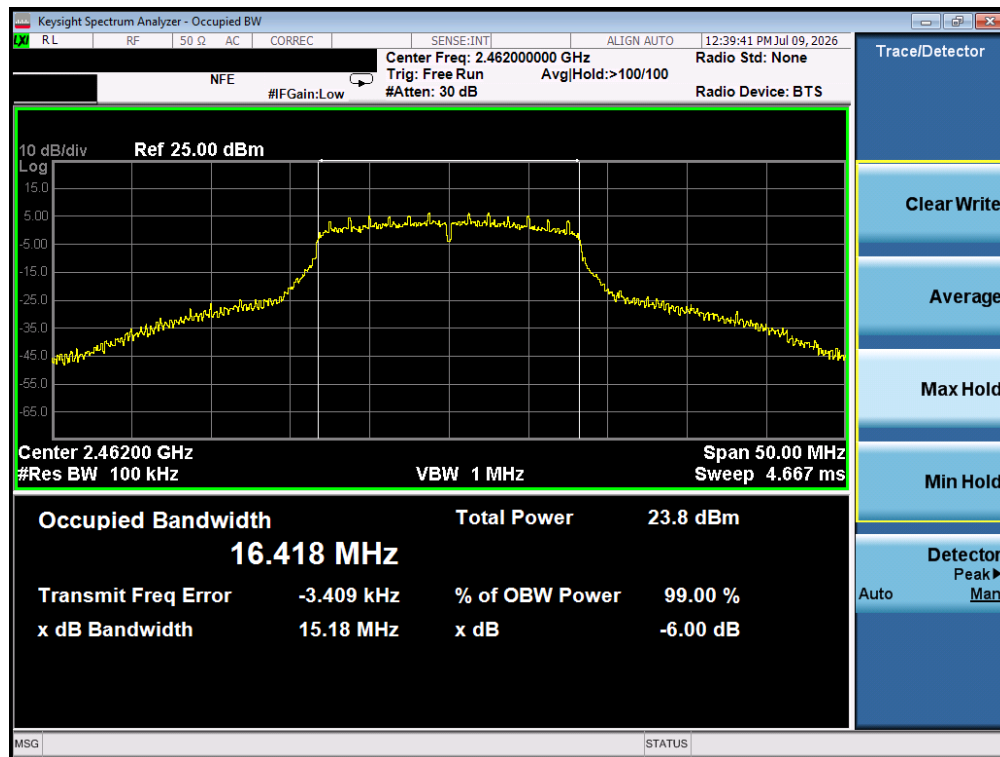


Plot 7-4. 6dB Bandwidth Plot SISO ANT1 (802.11g – Ch. 1)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

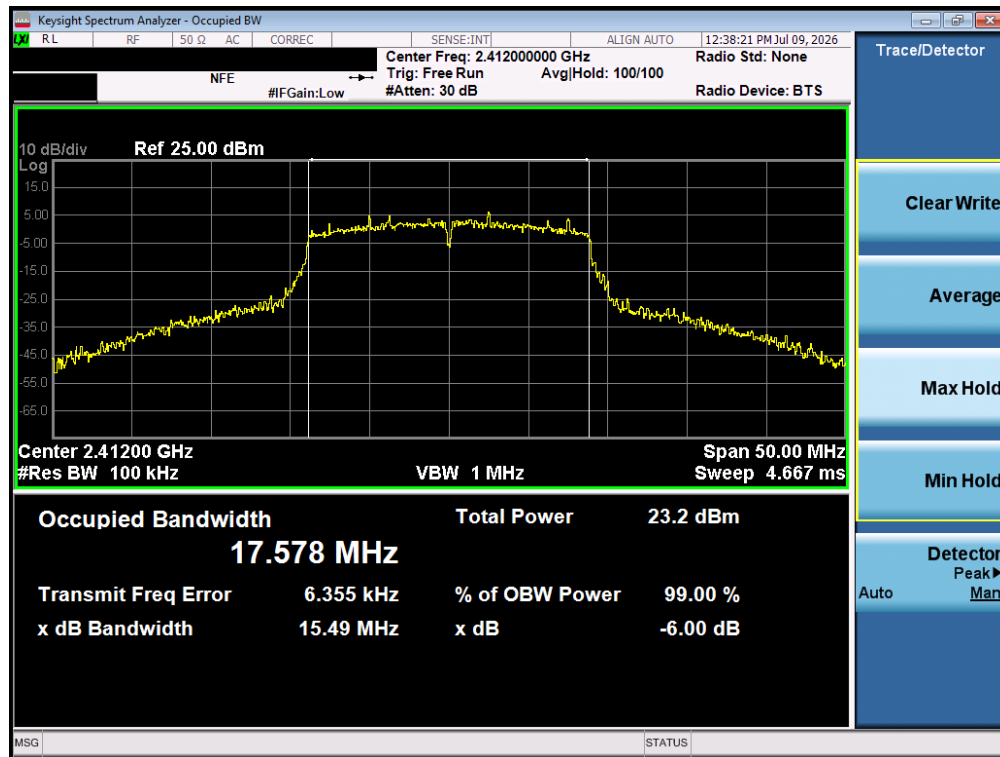


Plot 7-5. 6dB Bandwidth Plot SISO ANT1 (802.11g – Ch. 6)

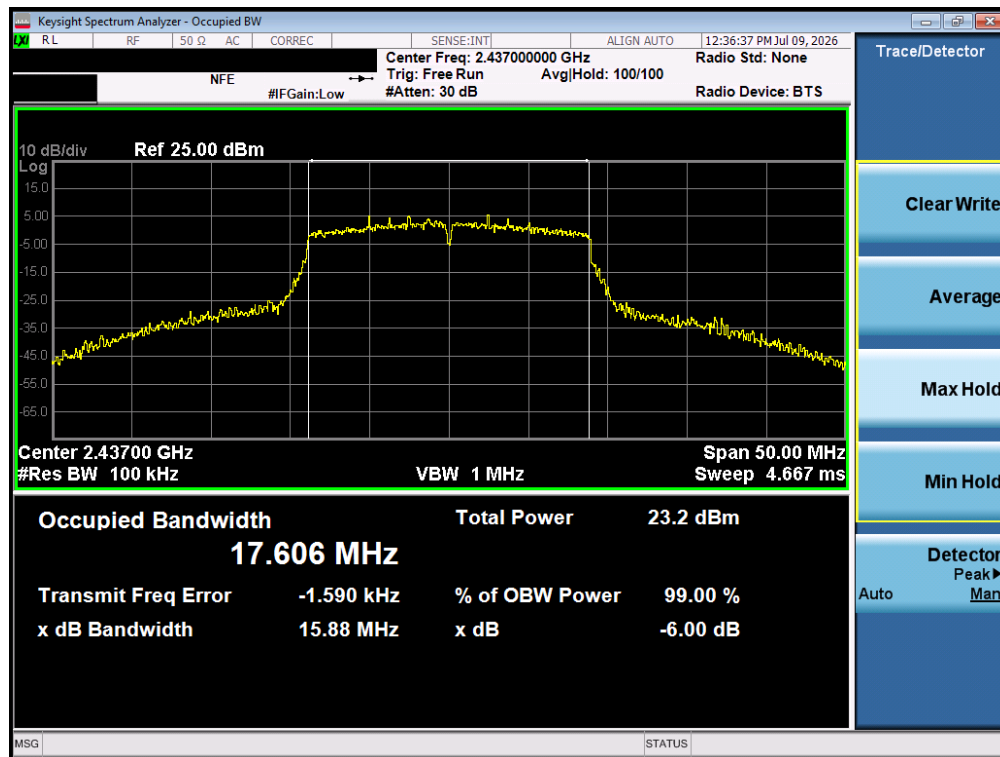


Plot 7-6. 6dB Bandwidth Plot SISO ANT1 (802.11g – Ch. 11)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58



Plot 7-7. 6dB Bandwidth Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 1)



Plot 7-8. 6dB Bandwidth Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 6)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58



Plot 7-9. 6dB Bandwidth Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 11)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

7.3 Output Power Measurement

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt per 15.247.

Test Procedure Used

ANSI C63.10:2020 – Section 11.9.1.2 PKPM1 Peak Power Method
ANSI C63.10:2020 – Section 11.9.2.3.2 Method AVGPM-G

Test Settings

Method PKPM1 (Peak Power Measurement)

1. Detector = max peak
2. Trace mode = max hold
3. Sweep time = auto couple
4. RBW / VBW = auto
5. The trace was allowed to stabilize

Method AVGPM-G (Average Power Measurement)

1. Detector = RMS
2. Trace mode = trace average
3. Sweep time = auto couple
4. RBW / VBW = auto
5. The trace was allowed to stabilize

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

None.

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

2.4GHz WIFI (20MHz 802.11b SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
2412	1	Average	18.72	30.00	-11.28
2437	6		18.98	30.00	-11.02
2462	11		18.84	30.00	-11.16
2467	12		5.81	30.00	-24.19
2472	13		5.60	30.00	-24.40
2412	1	Peak	21.48	30.00	-8.52
2437	6		21.75	30.00	-8.25
2462	11		21.60	30.00	-8.40
2467	12		8.78	30.00	-21.22
2472	13		8.63	30.00	-21.37

Table 7-3. Conducted Output Power Measurements SISO (802.11b)

2.4GHz WIFI (20MHz 802.11g SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
2412	1	Average	16.74	30.00	-13.26
2437	6		16.85	30.00	-13.15
2462	11		16.60	30.00	-13.40
2467	12		5.61	30.00	-24.39
2472	13		5.87	30.00	-24.13
2412	1	Peak	24.76	30.00	-5.24
2437	6		24.83	30.00	-5.17
2462	11		24.66	30.00	-5.34
2467	12		13.60	30.00	-16.40
2472	13		13.66	30.00	-16.34

Table 7-4. Conducted Output Power Measurements SISO (802.11g)

2.4GHz WIFI (20MHz 802.11n SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
2412	1	Average	16.65	30.00	-13.35
2437	6		16.74	30.00	-13.26
2457	10		16.68	30.00	-13.32
2462	11		16.60	30.00	-13.40
2467	12		5.98	30.00	-24.02
2472	13		5.77	30.00	-24.23
2412	1	Peak	25.64	30.00	-4.36
2437	6		25.40	30.00	-4.60
2457	10		25.47	30.00	-4.53
2462	11		25.46	30.00	-4.54
2467	12		14.75	30.00	-15.25
2472	13		14.44	30.00	-15.56

Table 7-5. Conducted Output Power Measurements SISO (802.11n)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

7.4 Power Spectral Density

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates are investigated and the worst-case configuration results are reported in this section.

The maximum permissible power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10:2020 – Section 11.10.2 Method PKPSD

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 10kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

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

No power spectral density is recorded for channels 12 and 13 because of their reduced power. Measurements were performed on channel 11 as the upper channel.

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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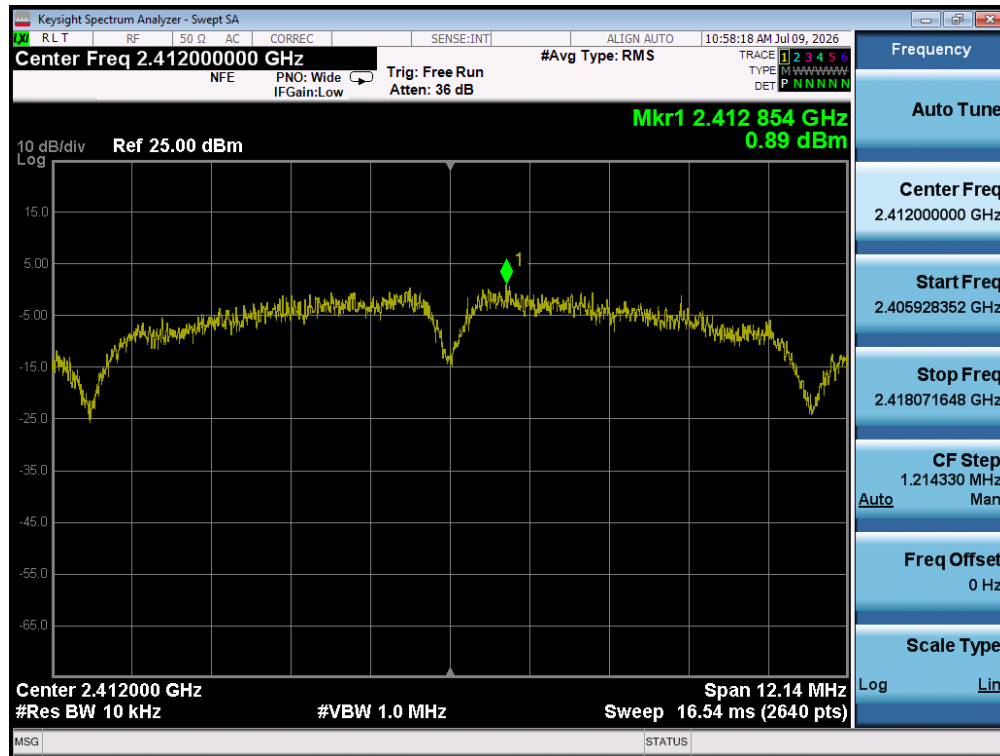
Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	0.89	8.00	-7.11	Pass
2437	6	b	1	2.62	8.00	-5.38	Pass
2462	11	b	1	2.03	8.00	-5.97	Pass
2412	1	g	6	-3.61	8.00	-11.61	Pass
2437	6	g	6	-1.41	8.00	-9.41	Pass
2462	11	g	6	-2.96	8.00	-10.96	Pass
2412	1	n	6.5/7.2 (MCS0)	-2.39	8.00	-10.39	Pass
2437	6	n	6.5/7.2 (MCS0)	-3.14	8.00	-11.14	Pass
2462	11	n	6.5/7.2 (MCS0)	-1.53	8.00	-9.53	Pass

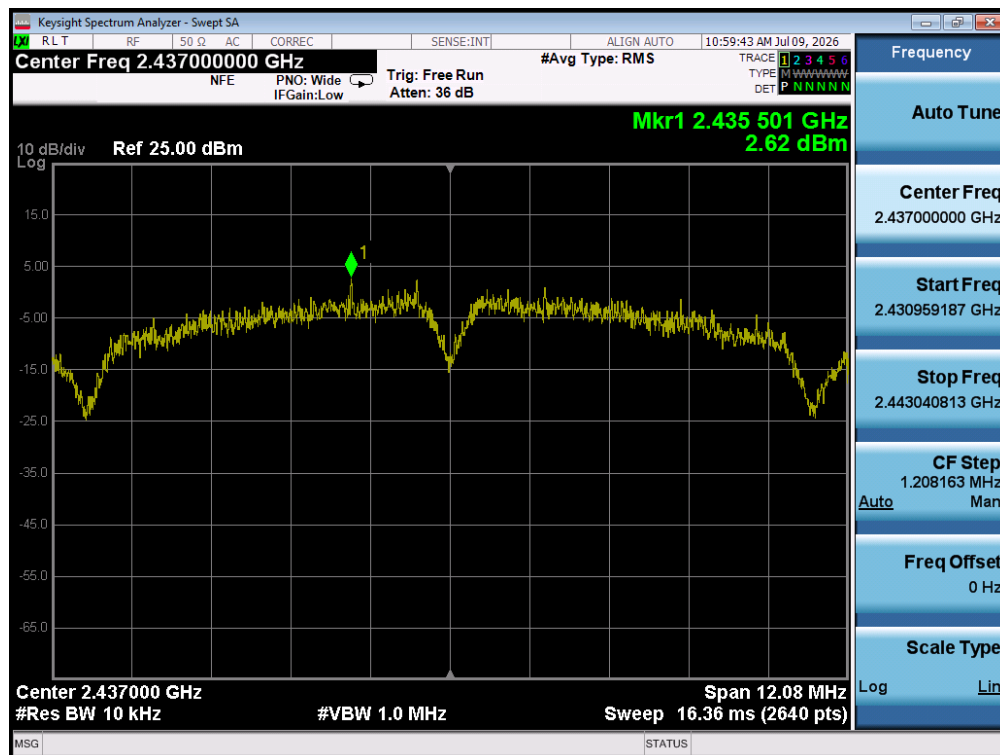
Table 7-6. Conducted Power Spectral Density Measurements SISO

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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.		

SISO Power Spectral Density Measurements

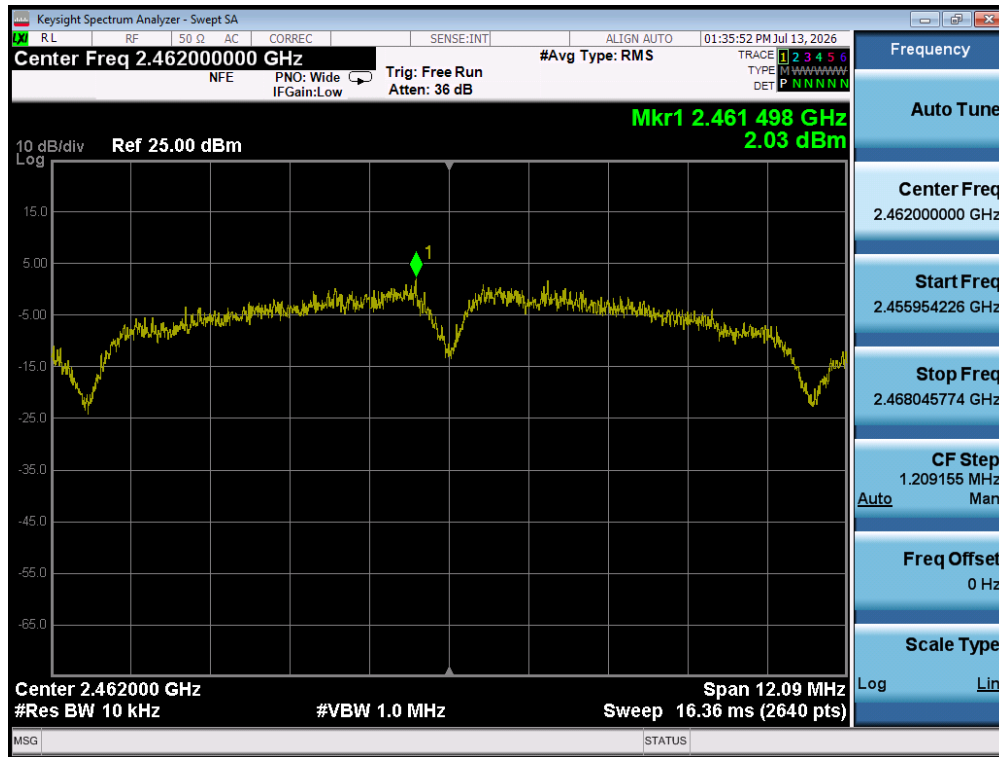


Plot 7-10. Power Spectral Density Plot SISO ANT1 (802.11b – Ch. 1)

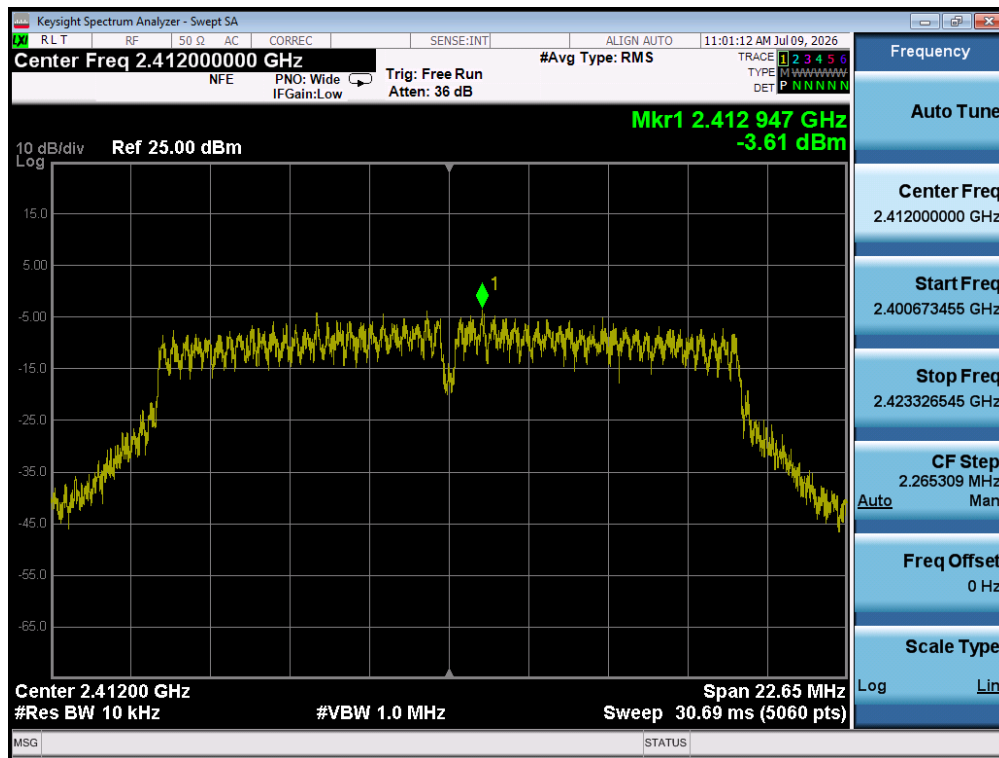


Plot 7-11. Power Spectral Density Plot SISO ANT1 (802.11b – Ch. 6)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

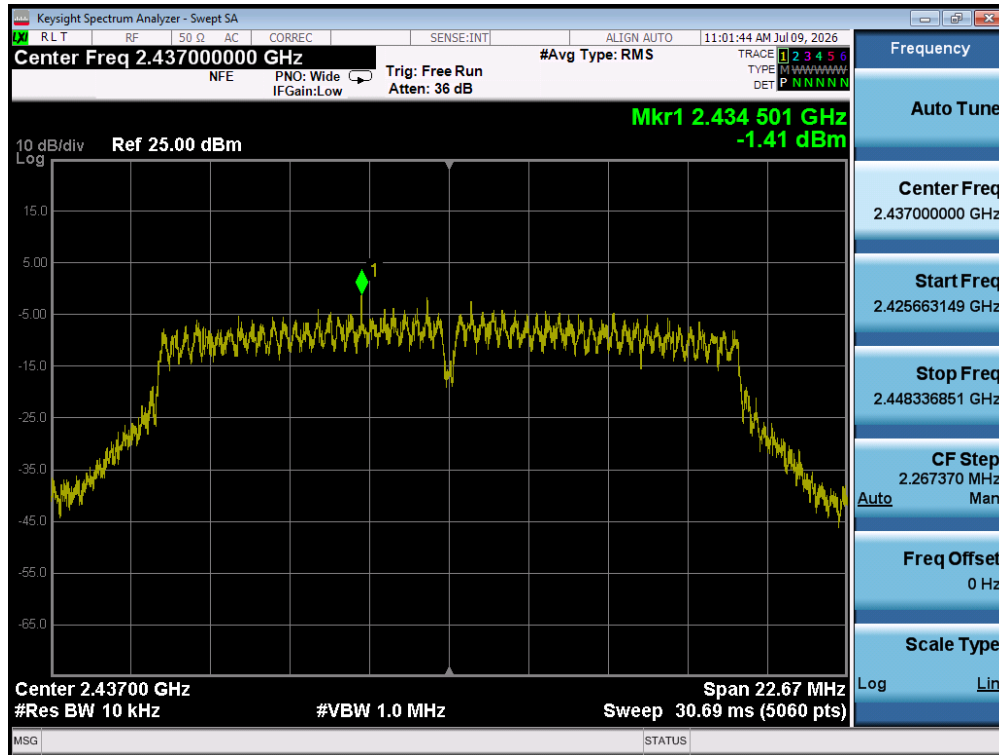


Plot 7-12. Power Spectral Density Plot SISO ANT1 (802.11b – Ch. 11)

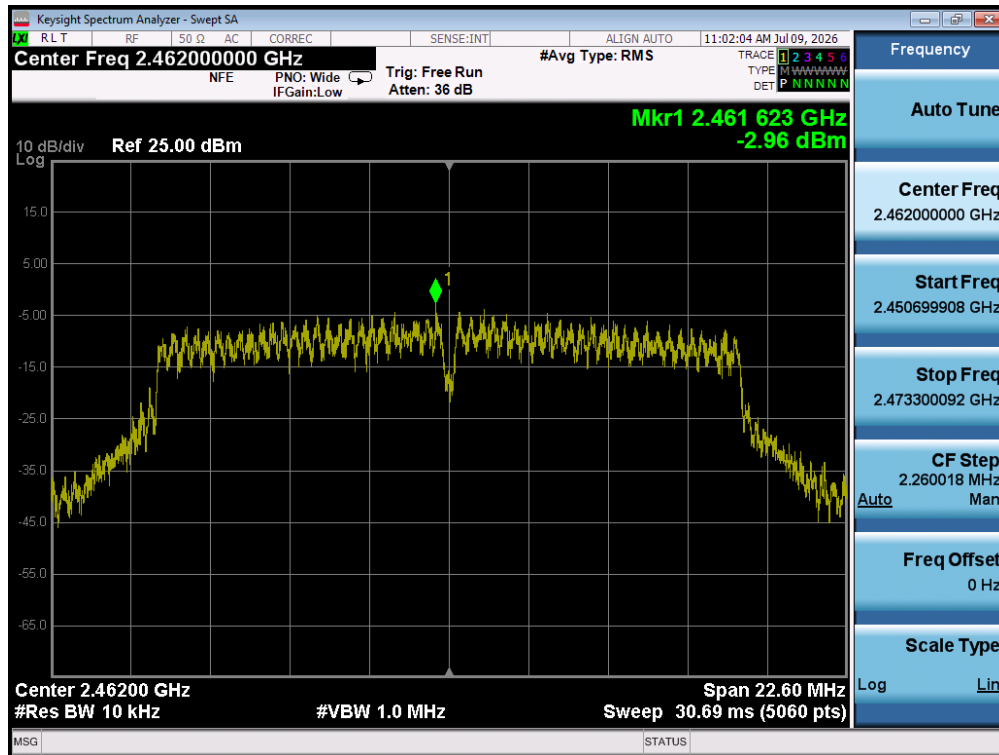


Plot 7-13. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 1)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

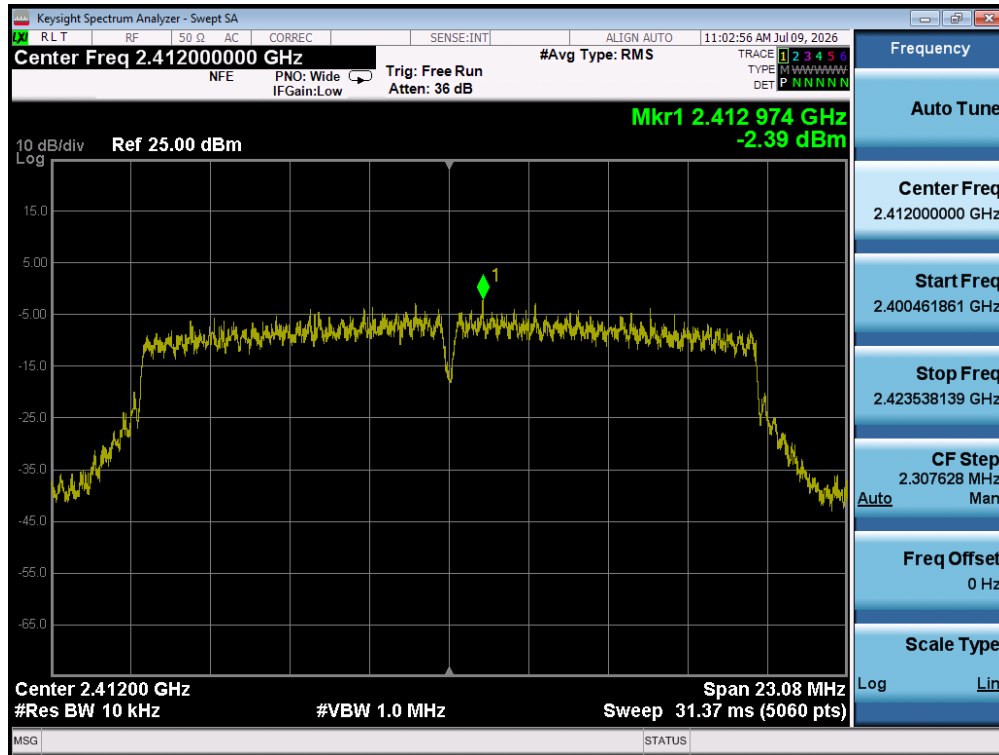


Plot 7-14. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 6)

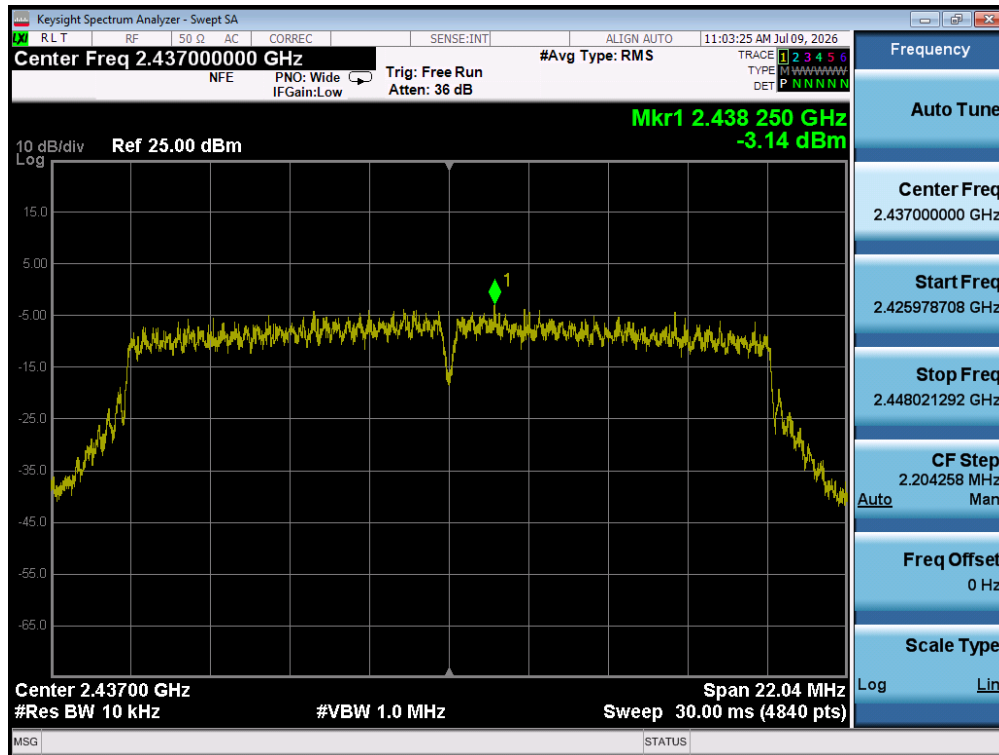


Plot 7-15. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 11)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

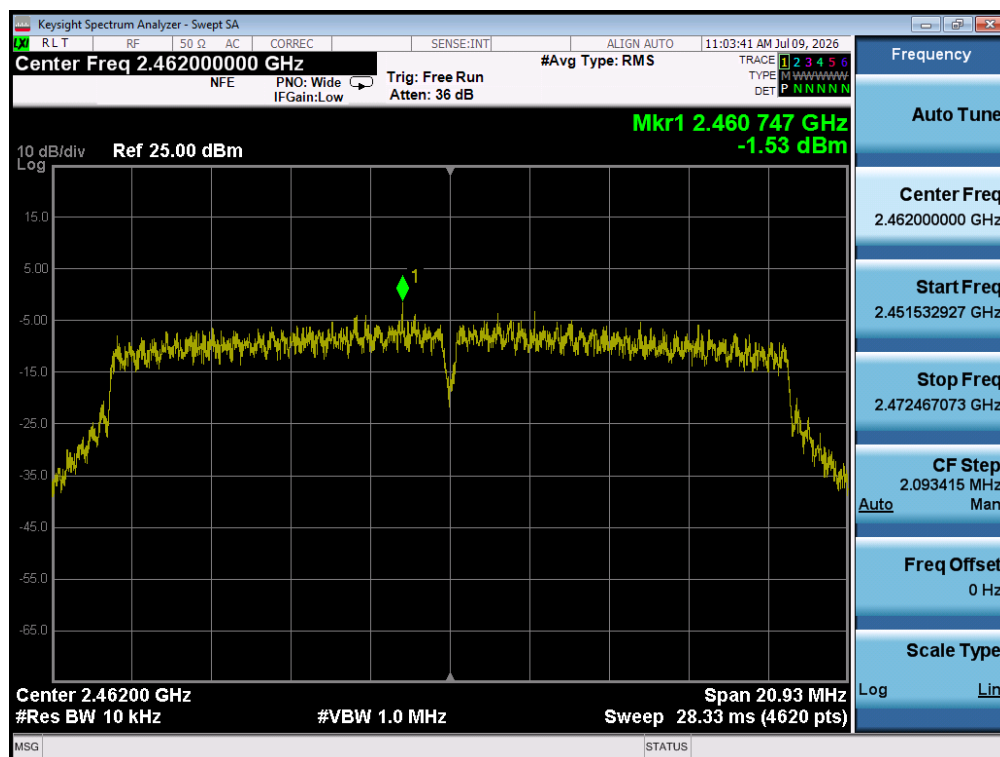


Plot 7-16. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 1)



Plot 7-17. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 6)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58



Plot 7-18. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 11)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

7.5 Conducted Band Edge Emissions

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for “b” mode, 6 Mbps for “g” mode, 6.5/7.2Mbps for “n” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10:2020 – Section 11.11.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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



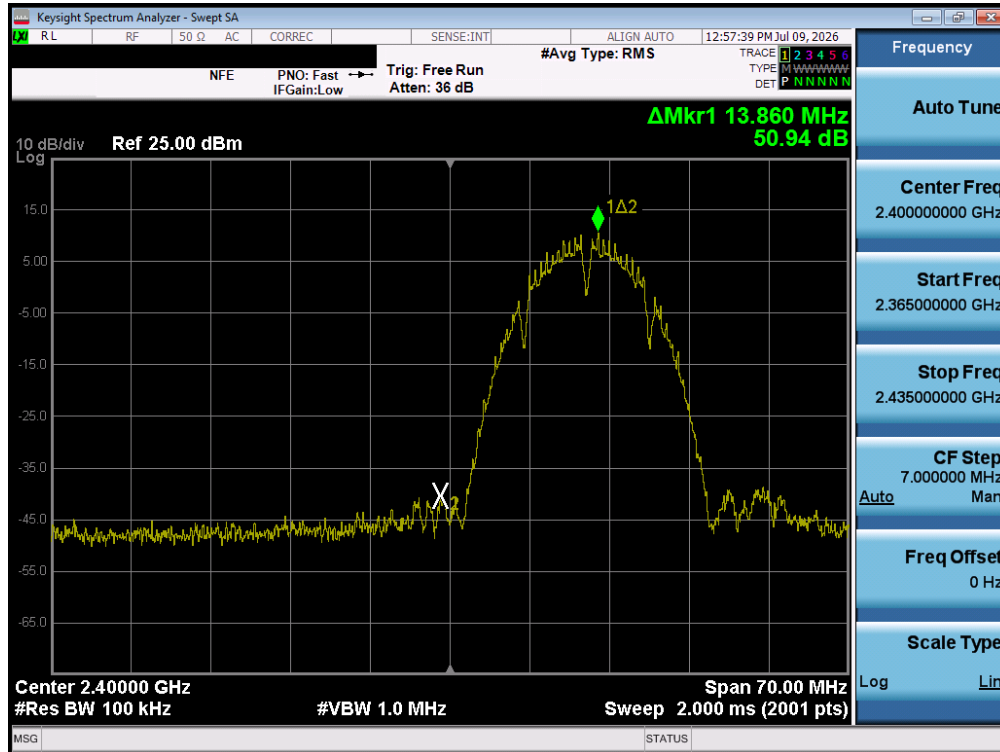
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

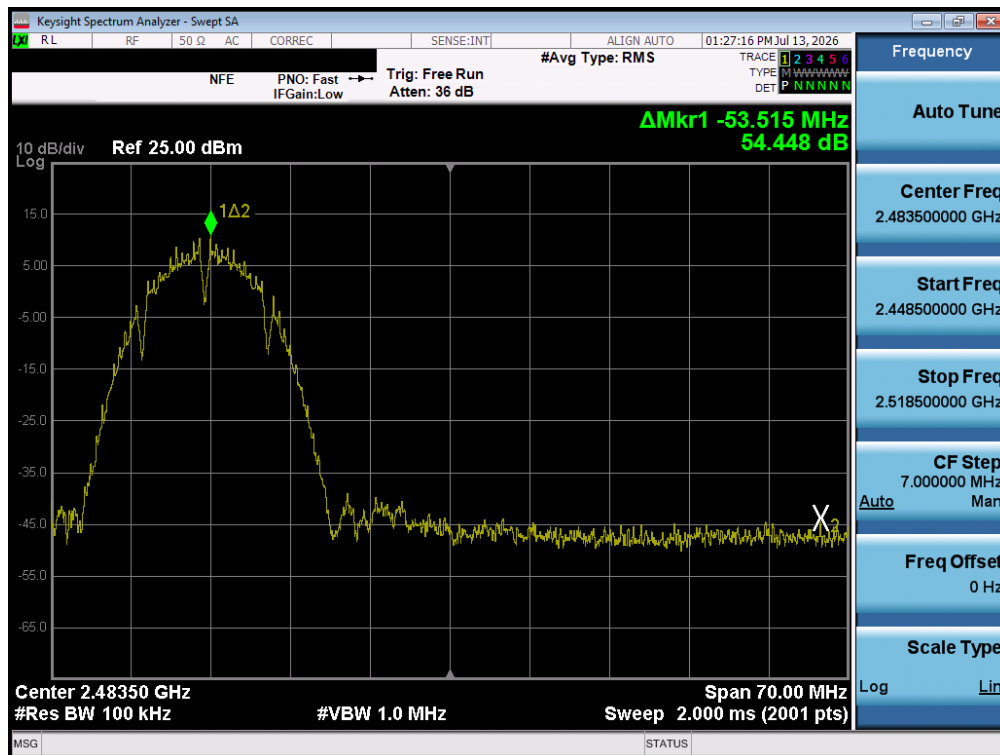
None.

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

SISO Conducted Band Edge Emissions

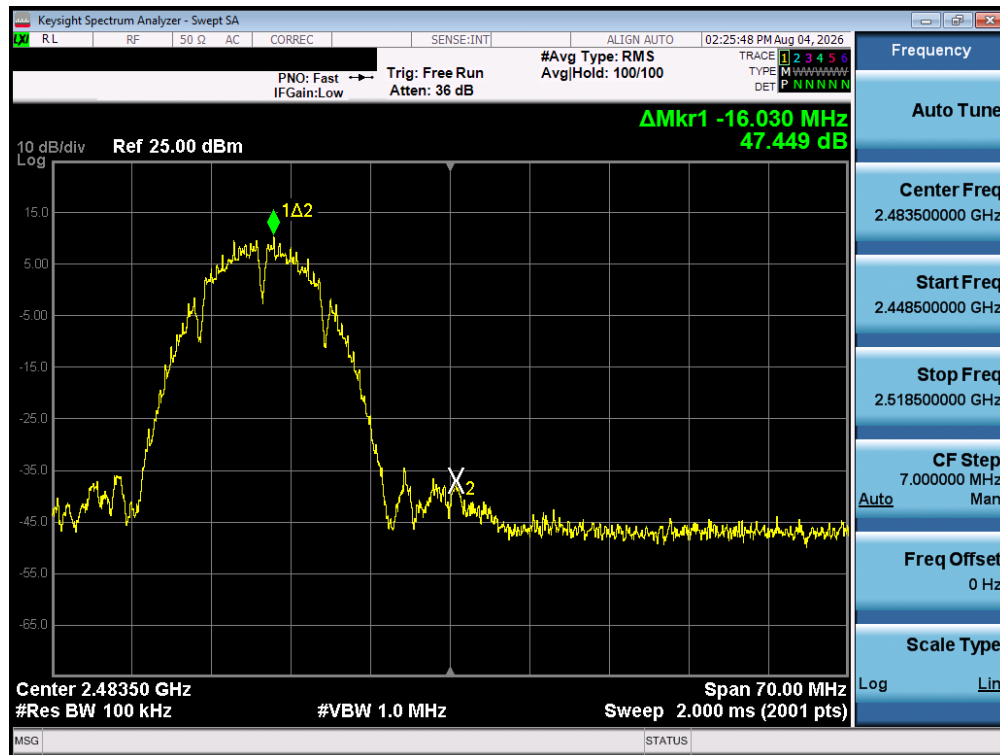


Plot 7-19. Band Edge Plot SISO ANT1 (802.11b – Ch. 1)

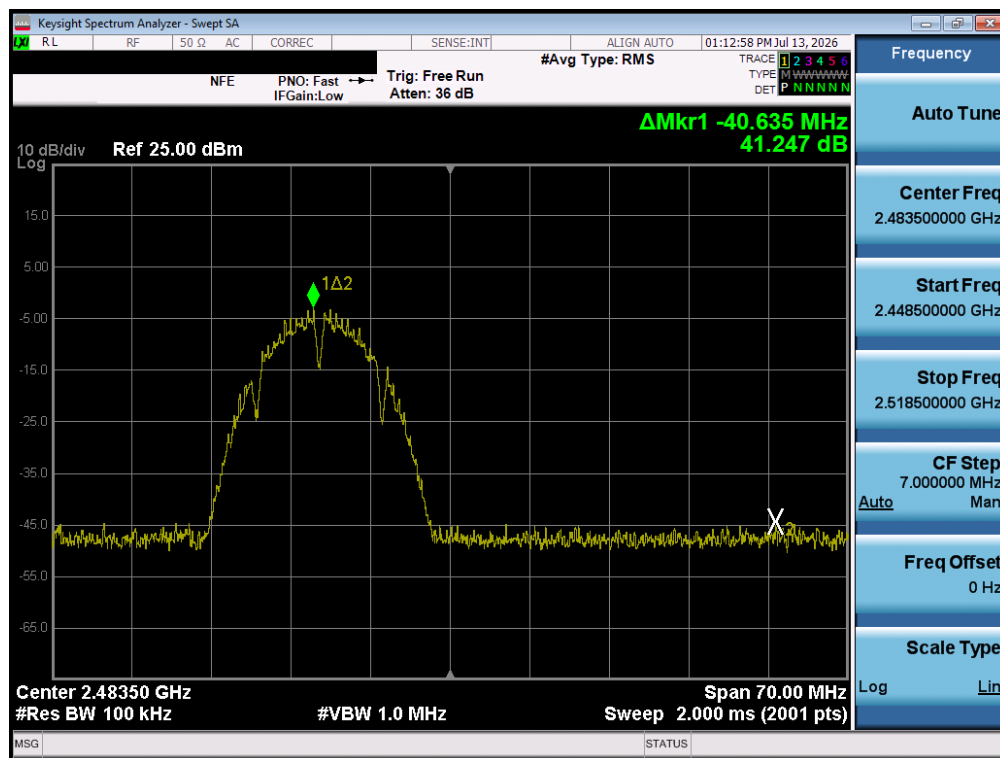


Plot 7-20. Band Edge Plot SISO ANT1 (802.11b – Ch. 11)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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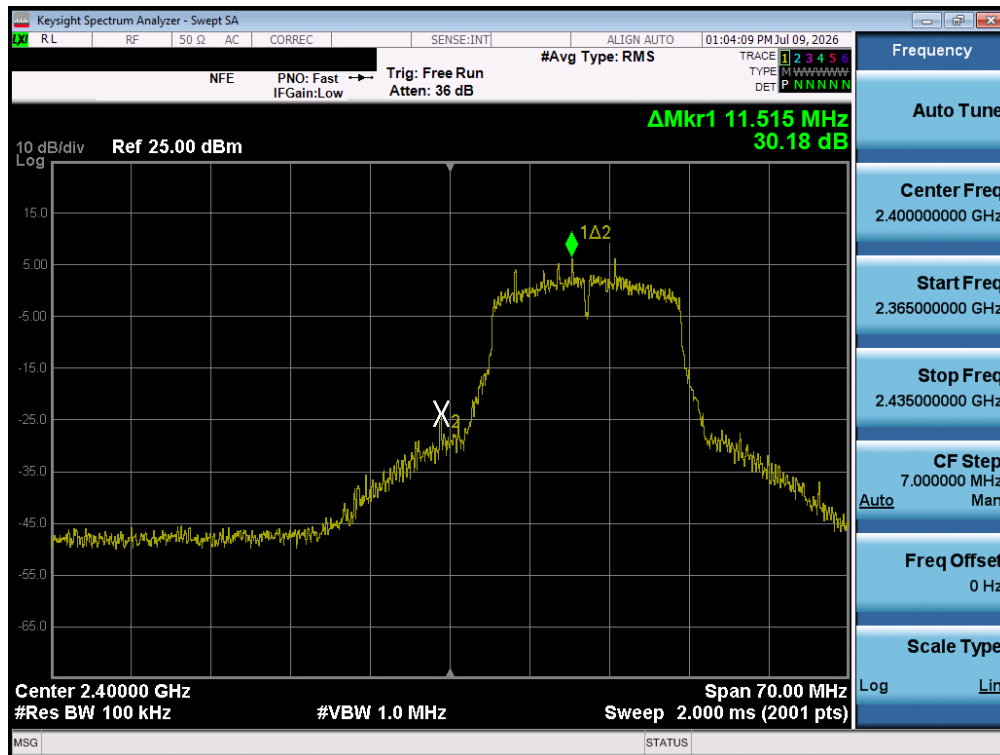


Plot 7-21. Band Edge Plot SISO ANT1 (802.11b – Ch. 12)

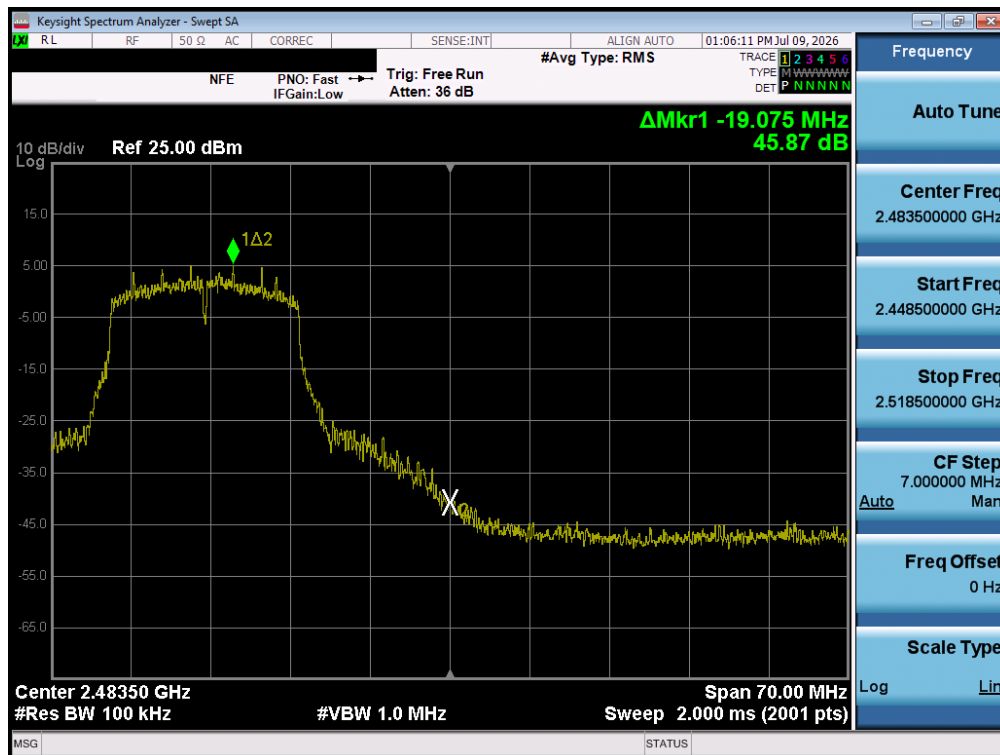


Plot 7-22. Band Edge Plot SISO ANT1 (802.11b – Ch. 13)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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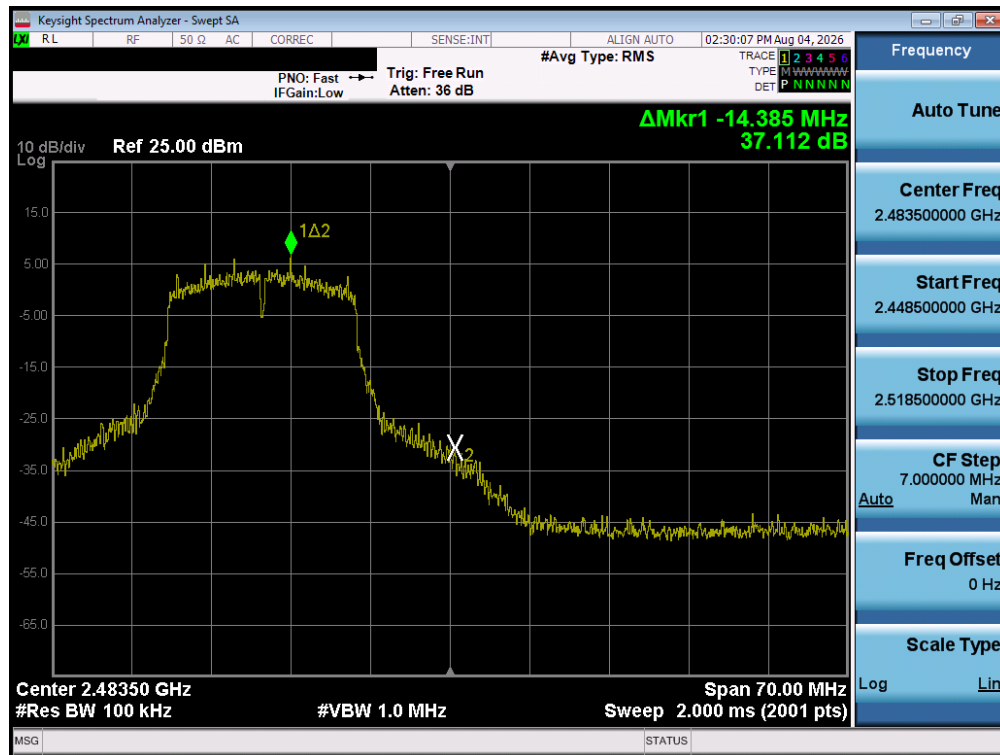


Plot 7-23. Band Edge Plot SISO ANT1 (802.11g- Ch. 1)

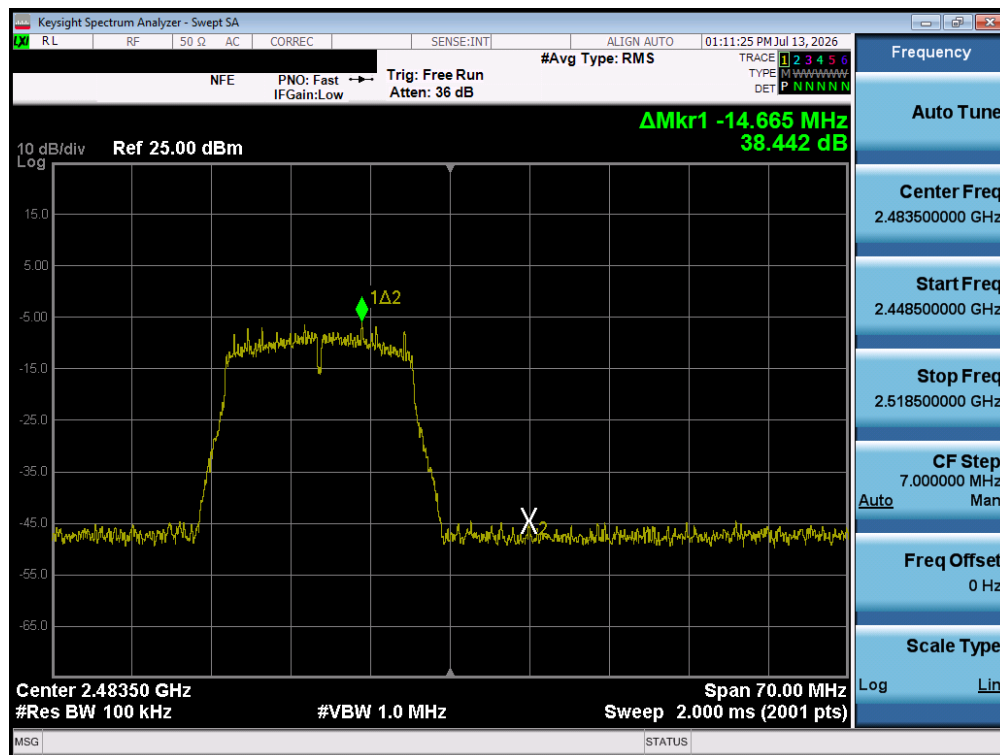


Plot 7-24. Band Edge Plot SISO ANT1 (802.11g - Ch. 11)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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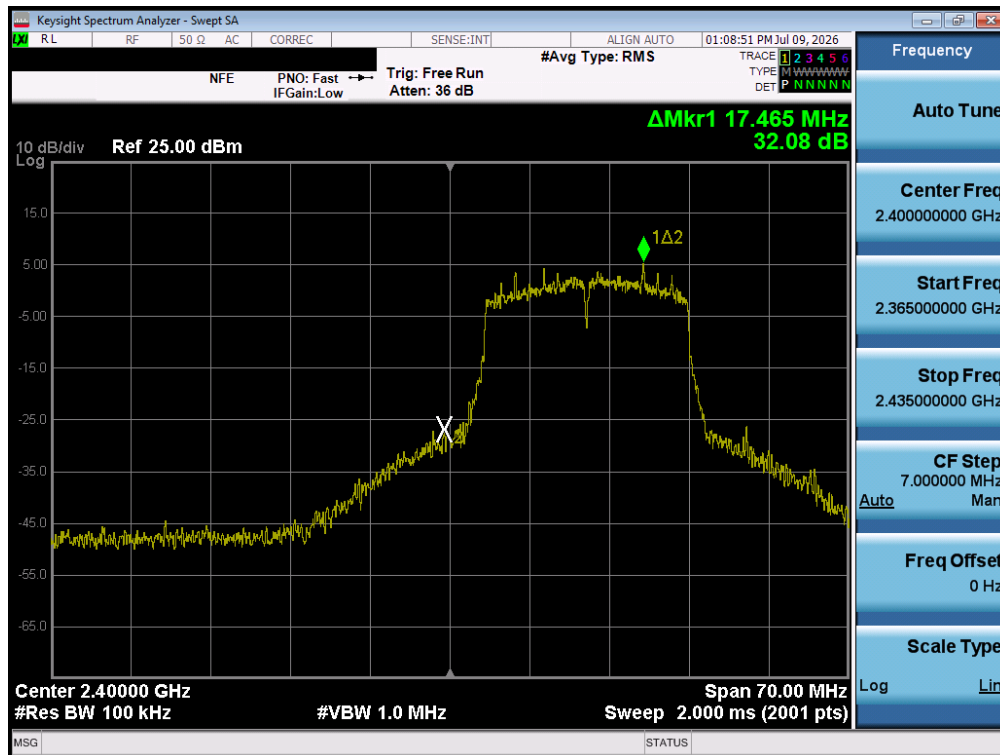


Plot 7-25. Band Edge Plot SISO ANT1 (802.11g – Ch. 12)



Plot 7-26. Band Edge Plot SISO ANT1 (802.11g – Ch. 13)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

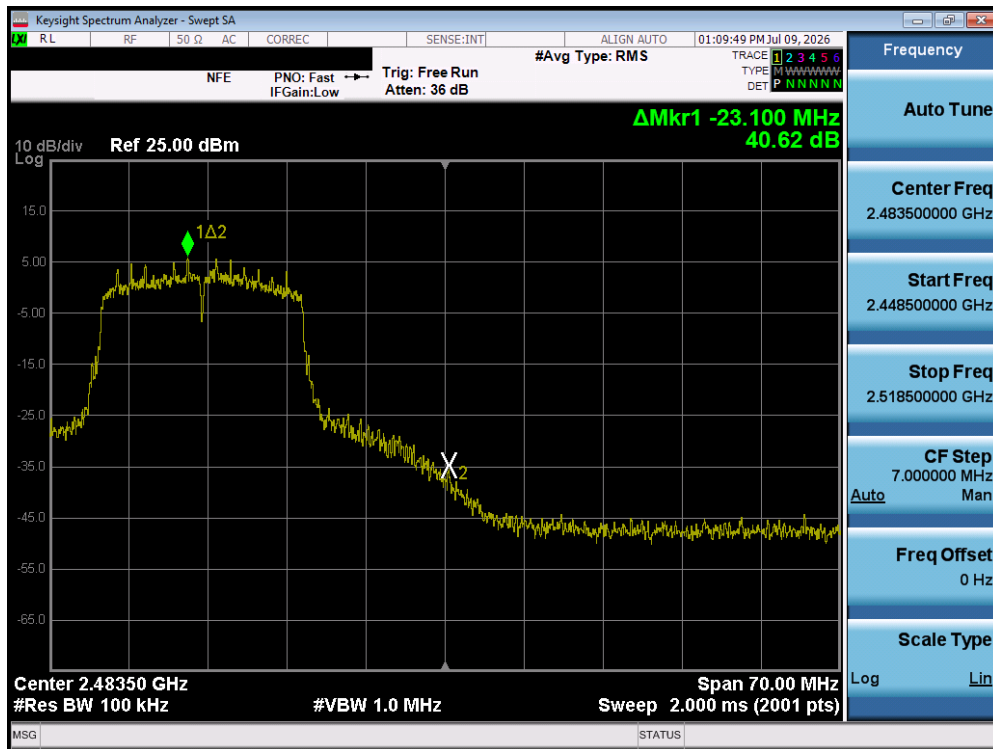


Plot 7-27. Band Edge Plot SISO ANT1 (802.11n – Ch. 1)

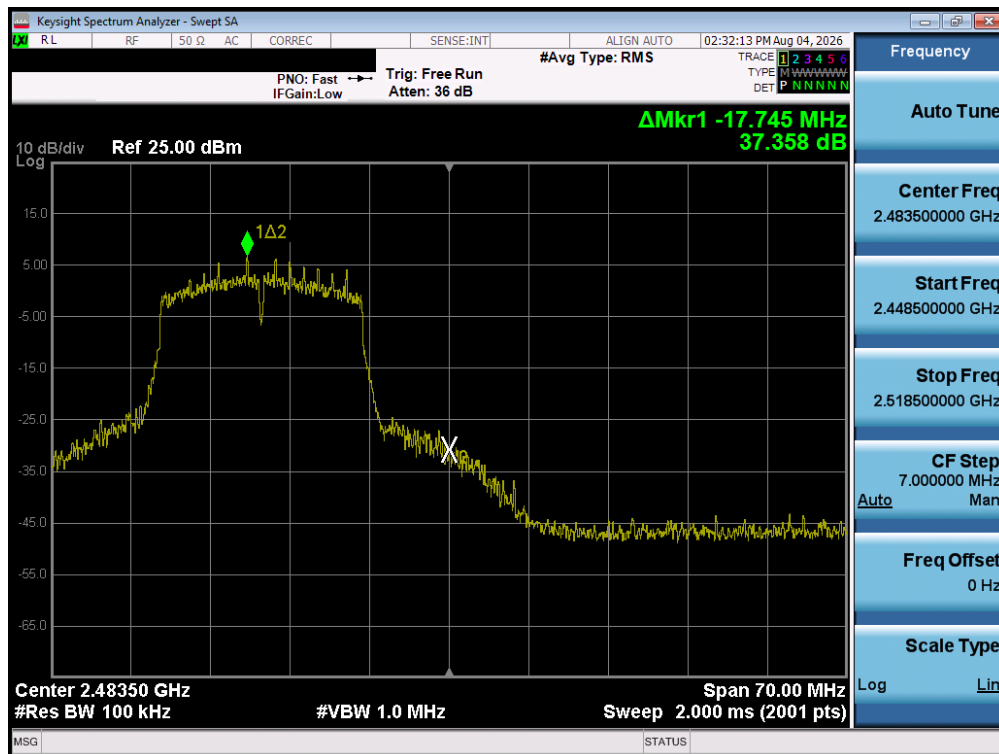


Plot 7-28. Band Edge Plot SISO ANT1 (802.11n – Ch. 10)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

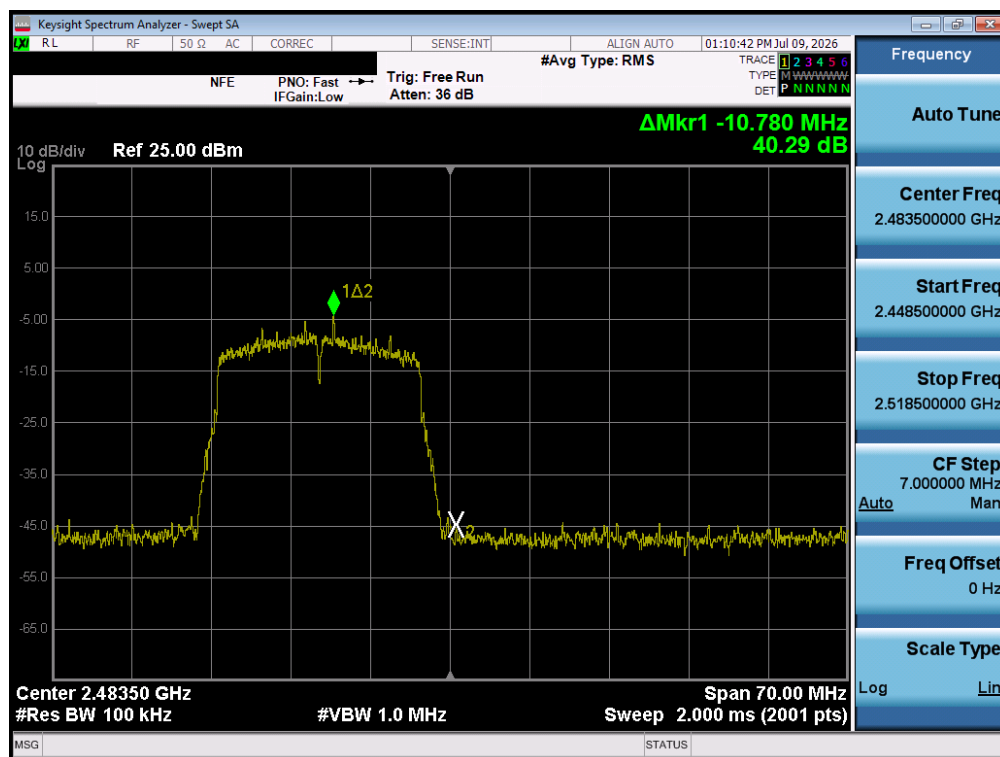


Plot 7-29. Band Edge Plot SISO ANT1 (802.11n – Ch. 11)



Plot 7-30. Band Edge Plot SISO ANT1 (802.11n – Ch. 12)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58



Plot 7-31. Band Edge Plot SISO ANT1 (802.11n – Ch. 13)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

7.6 Conducted Spurious Emissions

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “n” modes. The worst-case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.11.3 of ANSI C63.10:2020.

Test Procedure Used

ANSI C63.10:2020 – Section 11.11.3
ANSI C63.10:2020 – Section 14.5.2.3

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

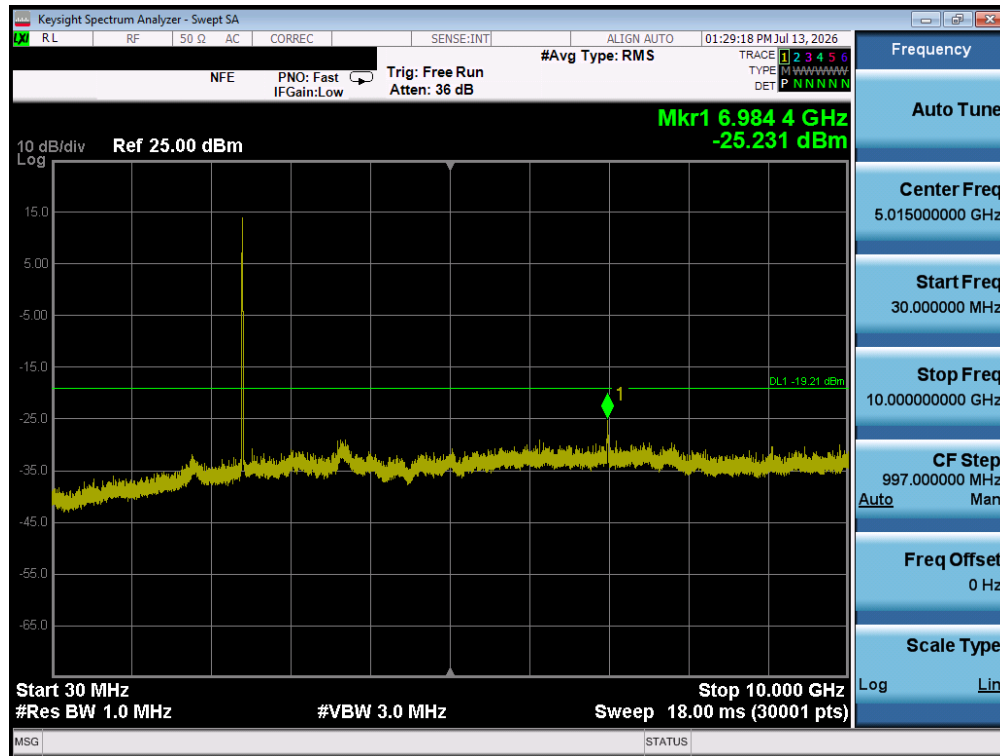
FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 39 of 58

Test Notes

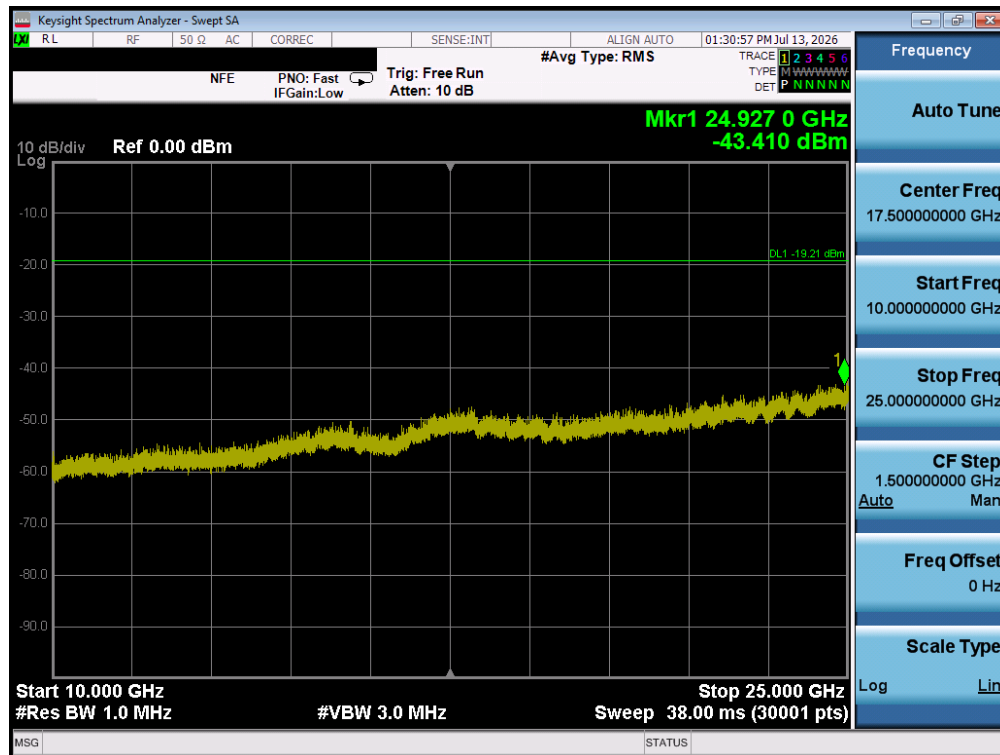
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10:2020 Section 14.5.2.3, it was unnecessary to show compliance through the summation of test results of the individual outputs.

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

SISO Conducted Spurious Emissions

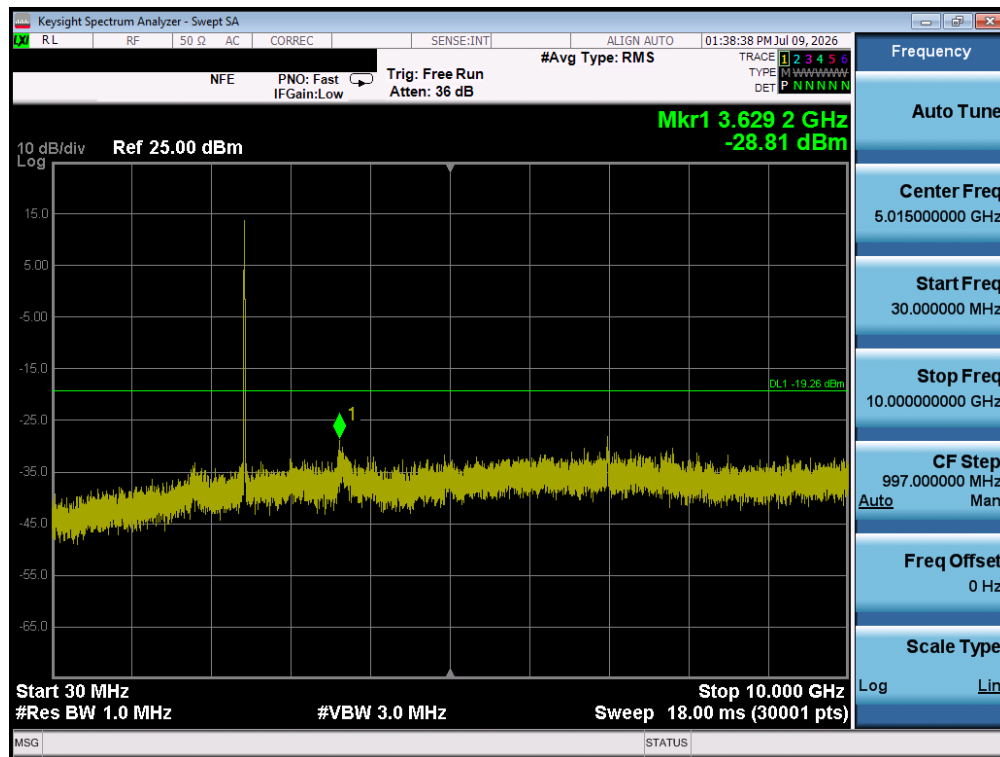


Plot 7-32. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 1)

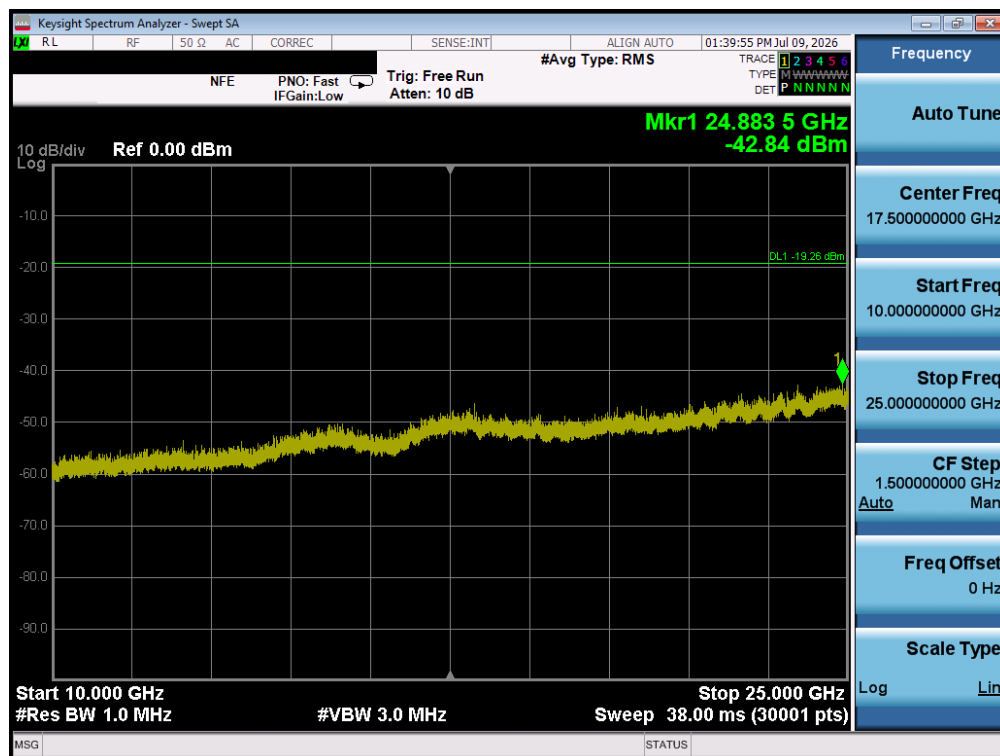


Plot 7-33. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 1)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58		

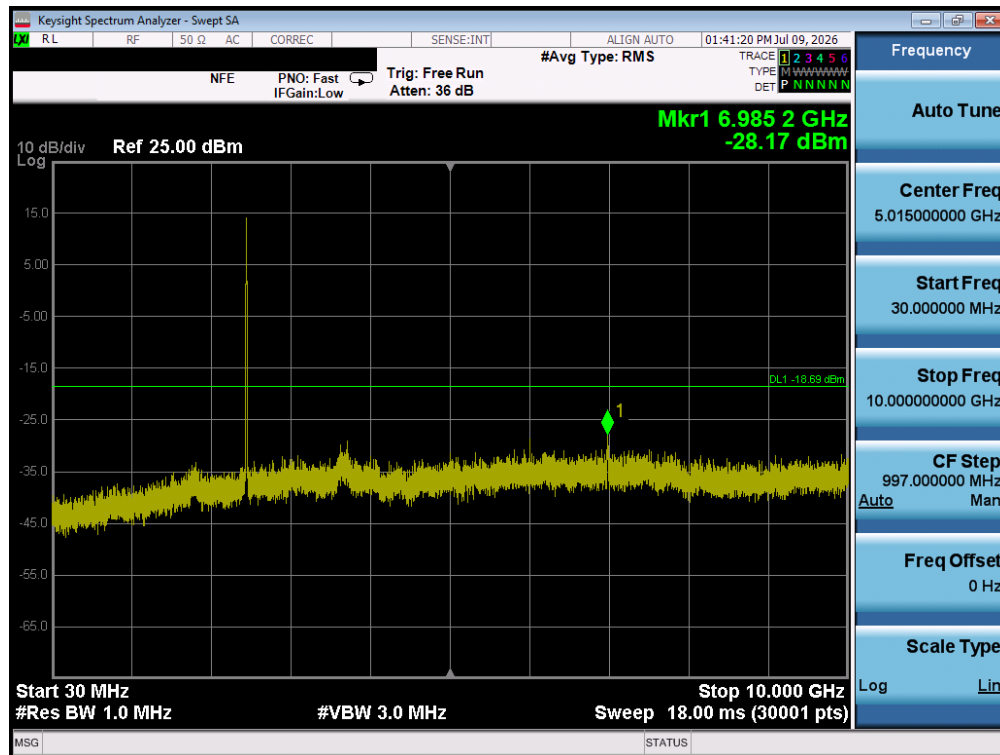


Plot 7-34. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 6)

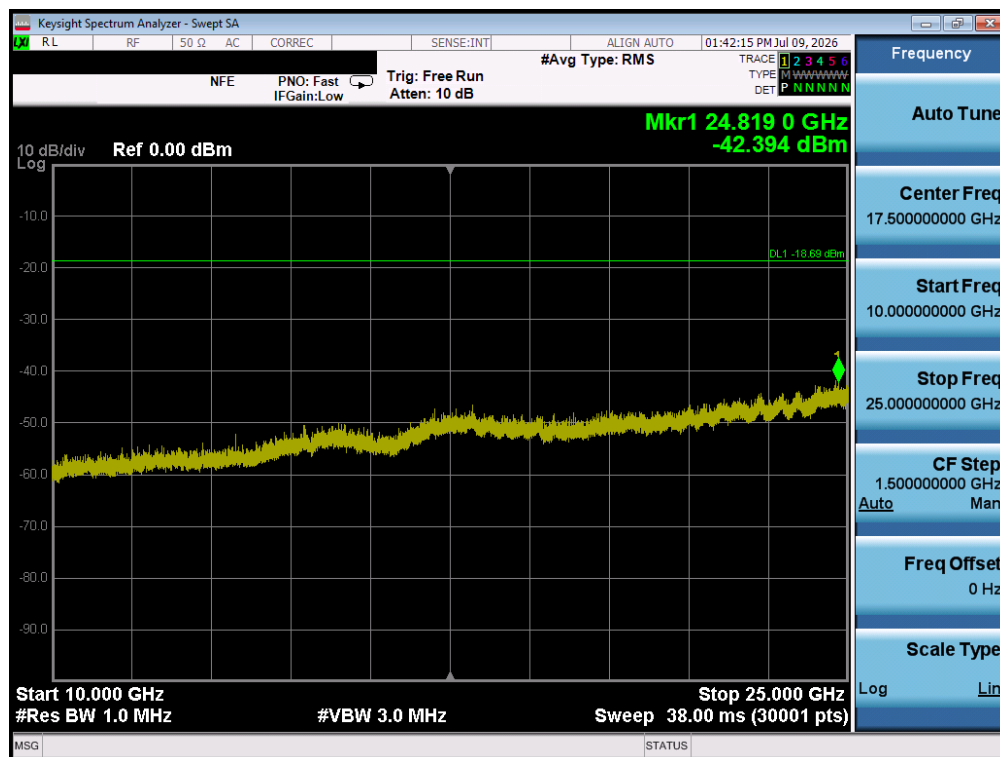


Plot 7-35. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 6)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58



Plot 7-36. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 11)



Plot 7-37. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 11)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

7.7 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

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

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

Table 7-7. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Section 6.6.4.3

Test Settings – Above 1GHz

Average 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 = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

Peak Field Strength Measurements

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

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

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

Test Setup

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

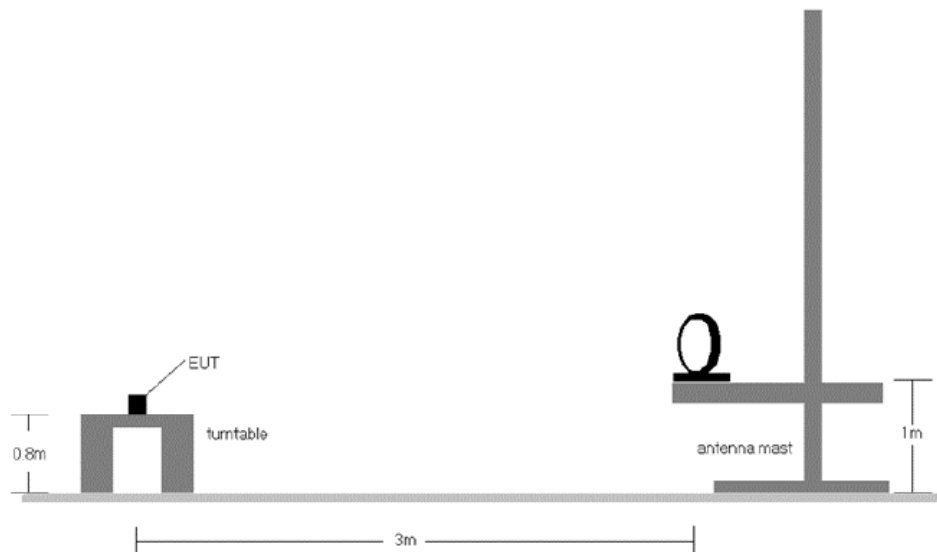


Figure 7-6. Radiated Test Setup < 30MHz

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

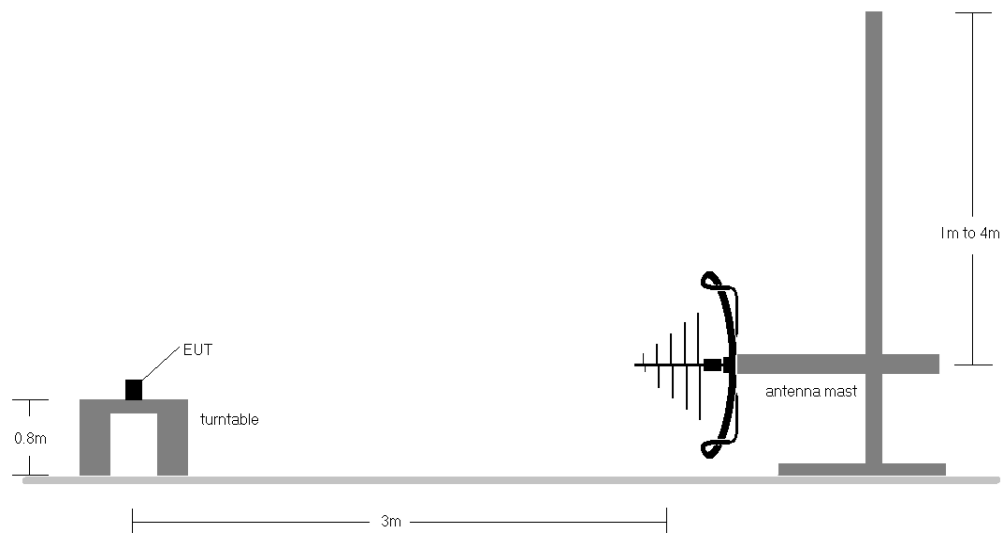


Figure 7-7. Radiated Test Setup < 1GHz

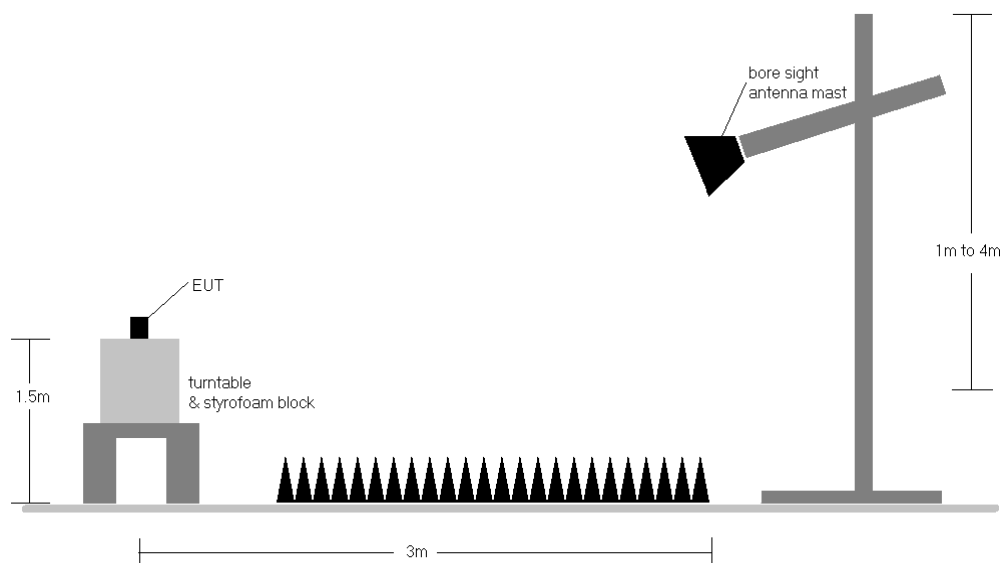


Figure 7-8. Radiated Test Setup > 1GHz

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of ANSI C63.10:2020 Section 11.12.2 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limits shown in §15.209.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

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. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst-case results during the transmitter spurious emissions testing.
10. No spurious emissions were detected within 20dB of the limit below 30MHz.
11. 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.
12. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
13. 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

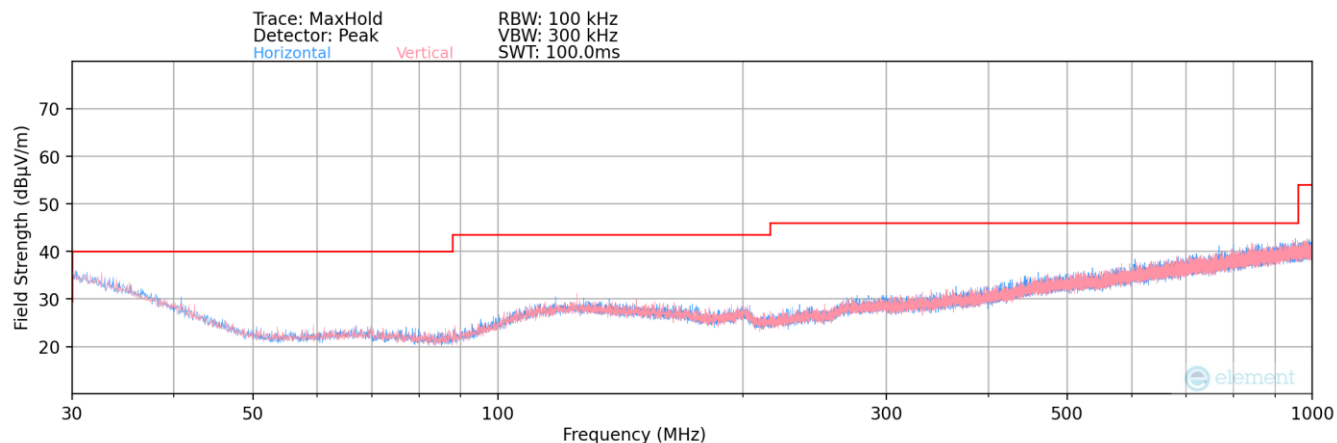
- Field Strength Level $[\text{dB}\mu\text{V/m}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}]$
- $\text{Margin} [\text{dB}] = \text{Field Strength Level} [\text{dB}\mu\text{V/m}] - \text{Limit} [\text{dB}\mu\text{V/m}]$

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

SISO Radiated Spurious Emission Measurements

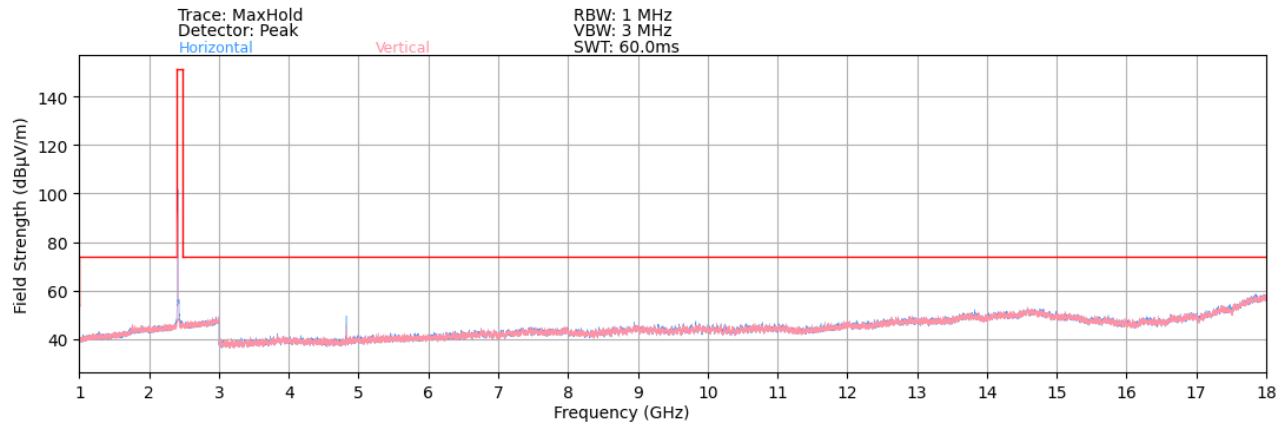


Plot 7-38. Radiated Spurious Plot below 1GHz SISO

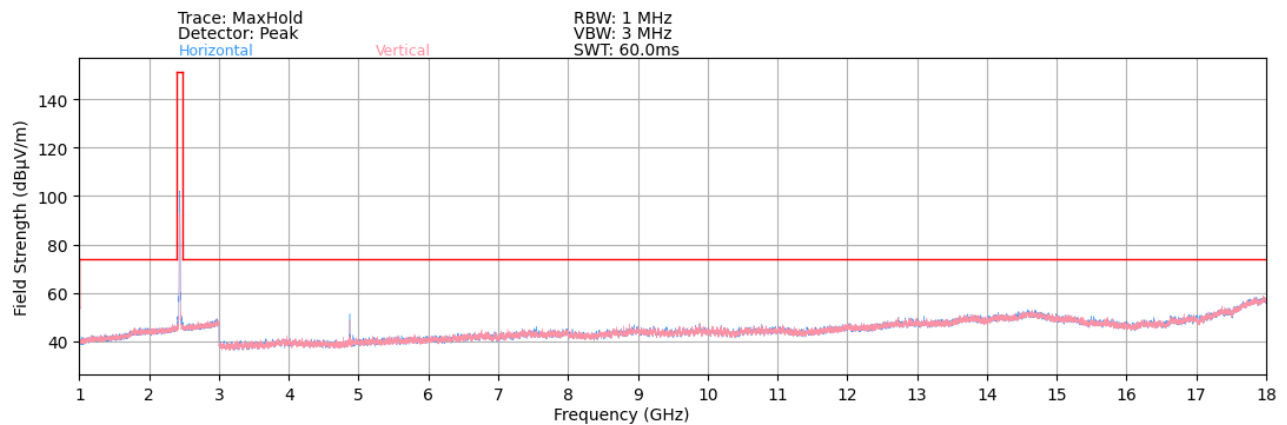
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
115.00	Quasi-Peak	V	-	-	-108.09	19.98	18.89	43.52	-24.64

Table 7-8. Radiated Measurements below 1GHz SISO

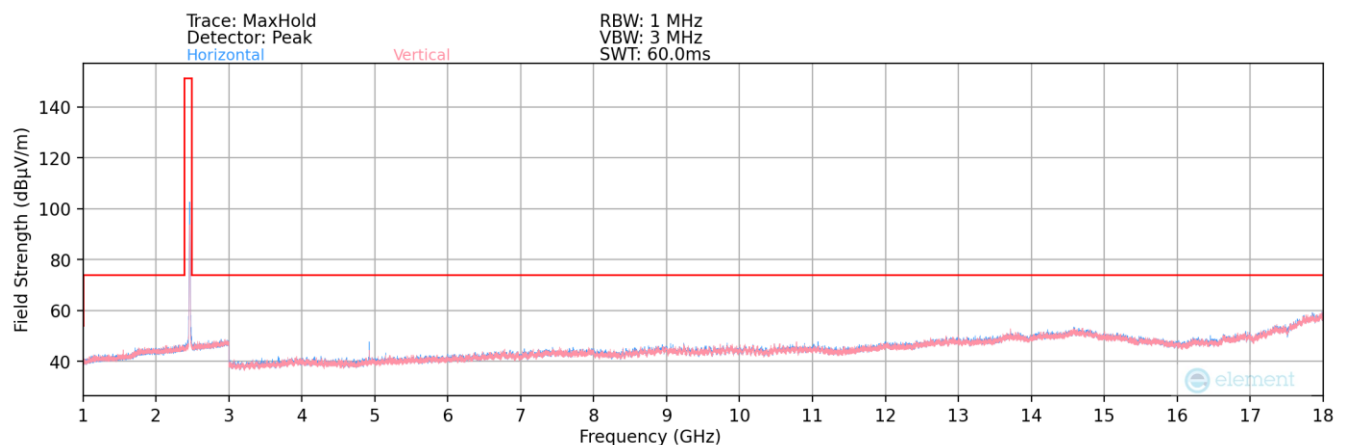
FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 48 of 58



Plot 7-39. Radiated Spurious Plot above 1GHz SISO (802.11b – Ch. 1)

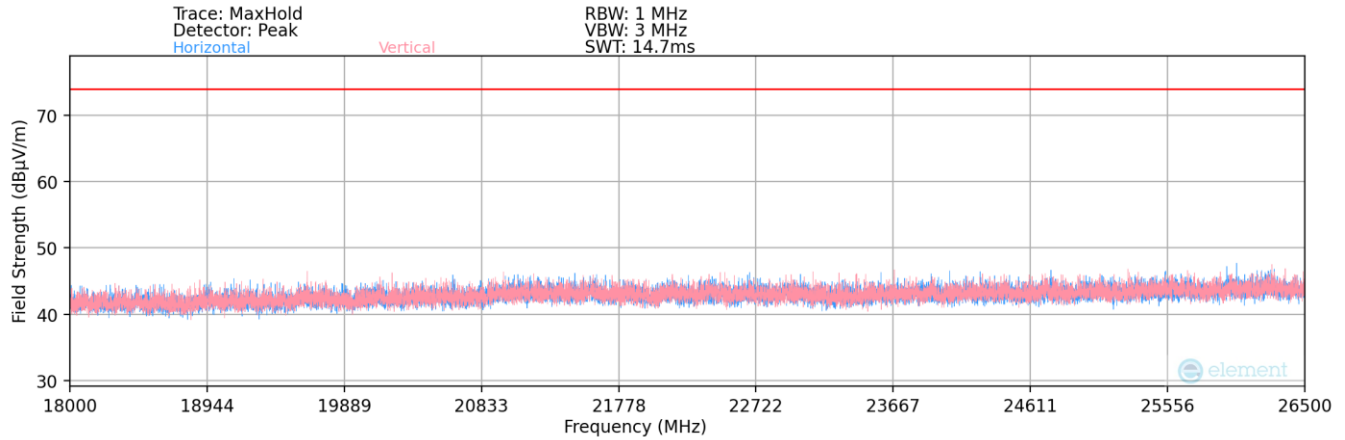


Plot 7-40. Radiated Spurious Plot above 1GHz SISO (802.11b – Ch. 6)



Plot 7-41. Radiated Spurious Plot above 1GHz SISO (802.11b – Ch. 11)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58



Plot 7-42. Radiated Spurious Plot above 18GHz SISO

Worst Case Mode: 802.11b

Worst Case Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	H	105	54	-60.58	4.44	50.86	53.98	-3.12
4824.00	Peak	H	105	54	-57.66	4.44	53.78	73.98	-20.20
12060.00	Avg	H	-	-	-79.92	18.90	45.98	53.98	-8.00
12060.00	Peak	H	-	-	-67.75	18.90	58.15	73.98	-15.83

Table 7-9. Radiated Measurements SISO

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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.		

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	114	41	-61.19	4.55	50.36	53.98	-3.62
4874.00	Peak	H	114	41	-57.81	4.55	53.74	73.98	-20.24
7311.00	Avg	H	-	-	-79.66	10.57	37.91	53.98	-16.07
7311.00	Peak	H	-	-	-67.62	10.57	49.95	73.98	-24.03
12185.00	Avg	H	-	-	-80.37	19.10	45.73	53.98	-8.25
12185.00	Peak	H	-	-	-68.65	19.10	57.45	73.98	-16.53

Table 7-10. Radiated Measurements SISO

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	104	21	-65.93	4.76	45.83	53.98	-8.15
4924.00	Peak	H	104	21	-61.32	4.76	50.44	73.98	-23.54
7386.00	Avg	H	-	-	-79.47	10.99	38.52	53.98	-15.46
7386.00	Peak	H	-	-	-67.78	10.99	50.21	73.98	-23.77
12310.00	Avg	H	-	-	-80.45	18.54	45.09	53.98	-8.89
12310.00	Peak	H	-	-	-68.15	18.54	57.39	73.98	-16.59

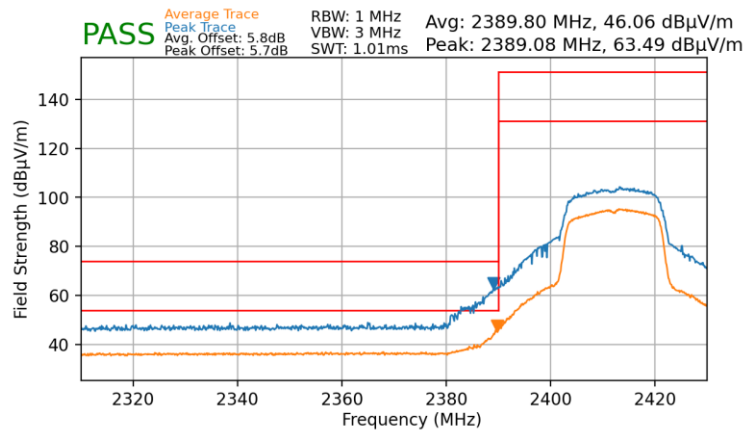
Table 7-11. Radiated Measurements SISO

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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.		

SISO Radiated Restricted Band Edge Measurements

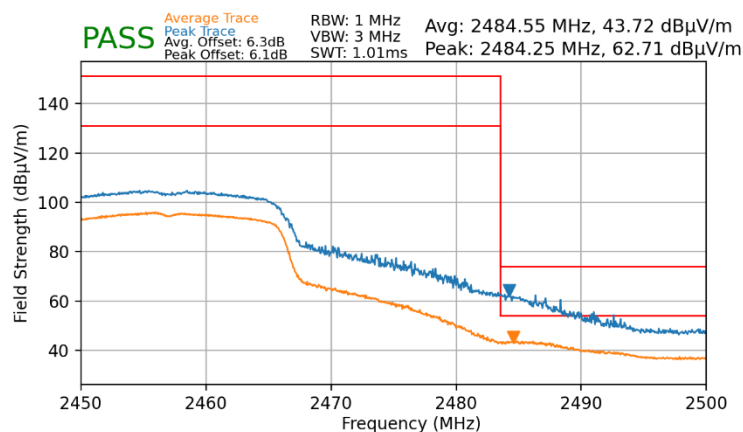
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-43. Radiated Restricted Lower Band Edge Measurement SISO (Average & Peak)

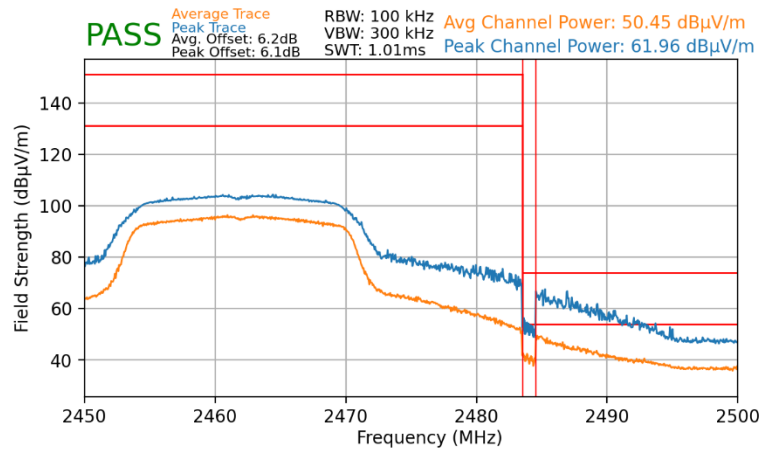
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-44. Radiated Restricted Upper Band Edge Measurement SISO (Average & Peak)

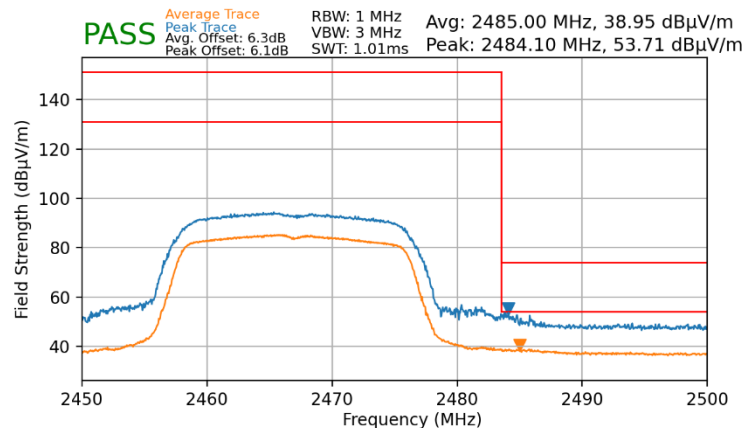
FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 52 of 58

Worst Case Mode: 802.11g
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-45. Radiated Restricted Upper Band Edge Measurement SISO (Average & Peak)

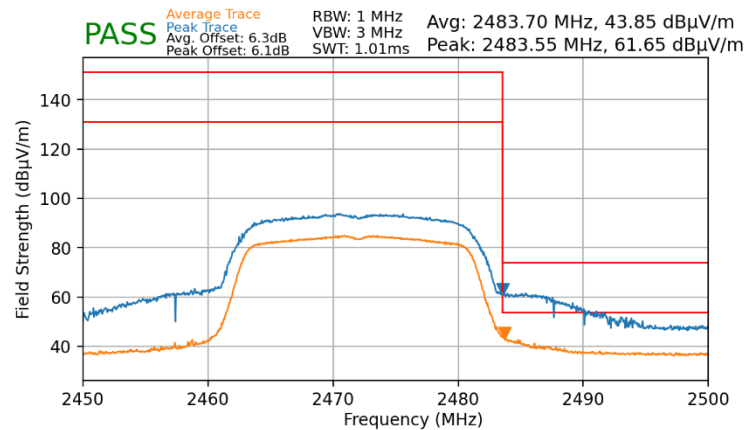
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-46. Radiated Restricted Upper Band Edge Measurement SISO (Average & Peak)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-47. Radiated Restricted Upper Band Edge Measurement SISO (Average & Peak)

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7.8 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 §15.207 and RSS-Gen (8.8).

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

Table 7-12. 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.

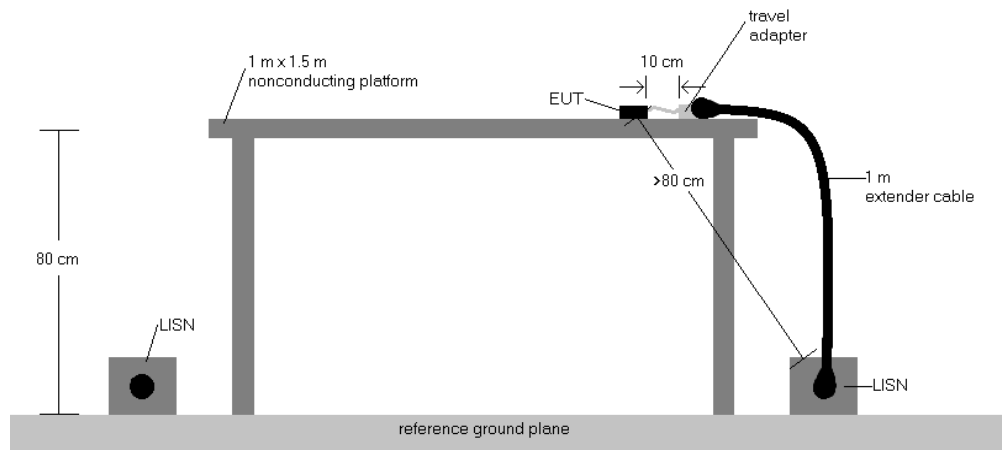
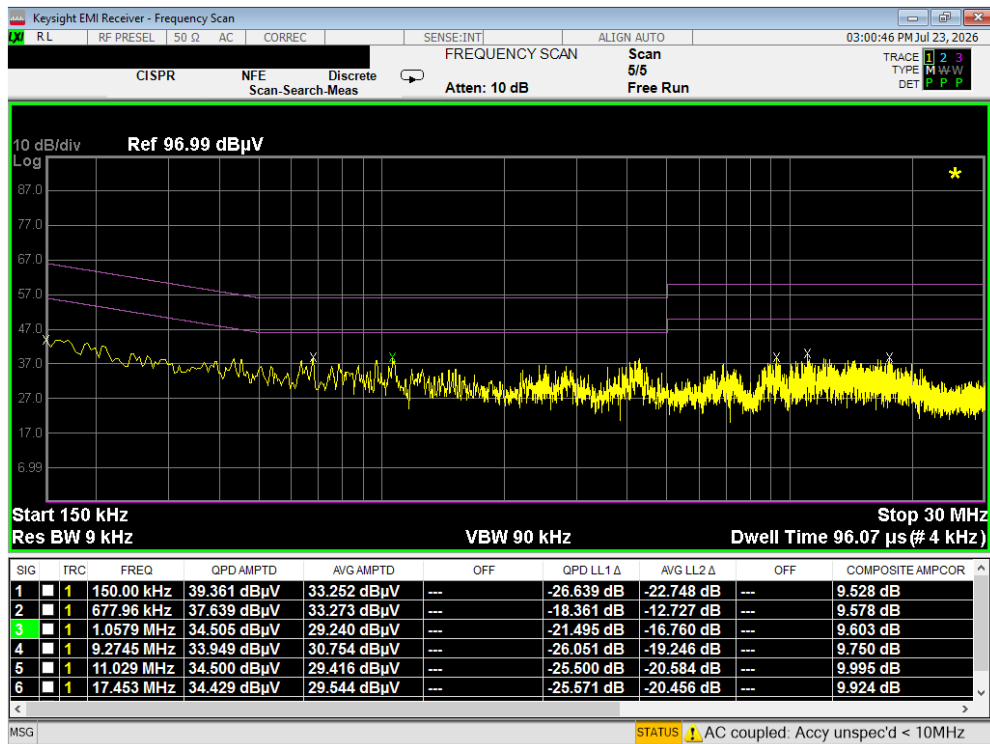


Figure 7-9. Test Instrument & Measurement Setup

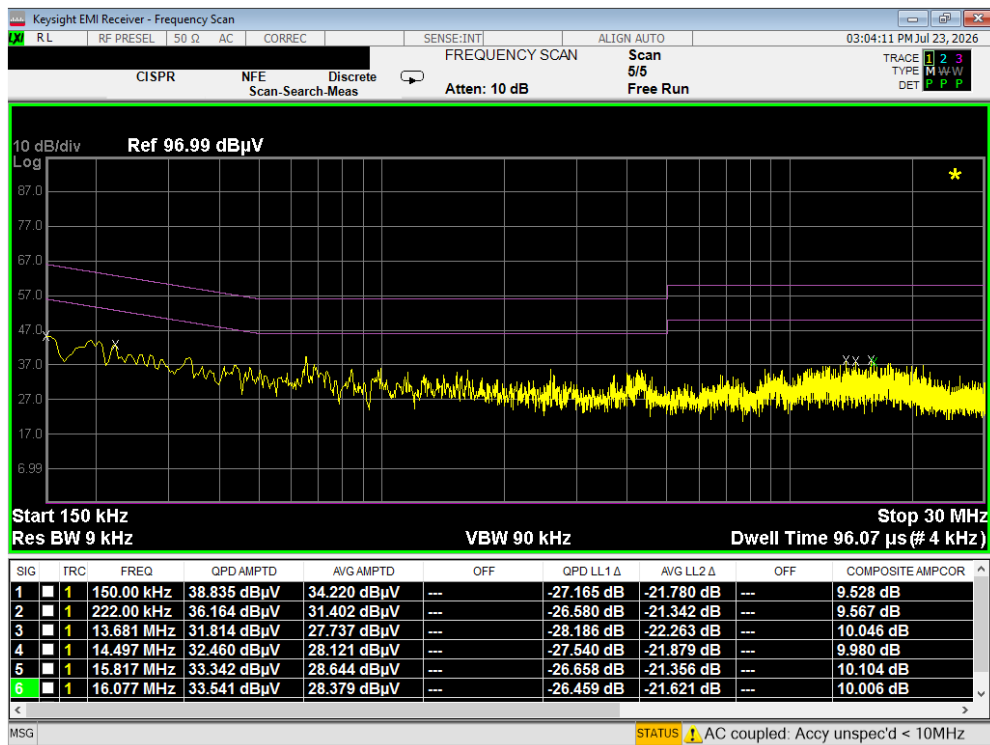
Test Notes

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 are specified in Part 15.207 and RSS-Gen(8.8).
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 7-48. Line Conducted Plot with 802.11b (L1)



Plot 7-49. Line Conducted Plot with 802.11b (N)

FCC ID: A3LSMA185G	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 7/15/2026 – 8/11/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-09-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 58

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 C (15.247) of the FCC Rules.

- END OF TEST REPORT -

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