



**ELEMENT MATERIALS TECHNOLOGY,
Columbia MD**

(formerly PCTEST)

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PART 27 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

7/8/2026 - 7/27/2026

Test Report Issue Date:

8/12/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2607060061-04-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

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

27

Test Procedure(s):

ANSI C63.26-2015

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 §2.947. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2607060061-04-R1.A3L) supersedes and replaces all previously issued test reports 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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V1.1 8/12/2026

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TEST REPORT REVISION HISTORY

Revision	Date	Comment	Revised By
-	7/29/2026	Initial Release	WKR0000023957
1	8/12/2026	Addressed comments from TCB Reviewer	WKR0000023957

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PART 27 MEASUREMENT REPORT

Antenna-1						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
LTE Band 41(PC3)	20 MHz	QPSK	2506.0 - 2680.0	0.279	24.46	18M0G7D
		16QAM	2506.0 - 2680.0	0.189	22.77	17M9W7D
	15 MHz	QPSK	2503.5 - 2682.5	0.280	24.47	13M5G7D
		16QAM	2503.5 - 2682.5	0.190	22.78	13M5W7D
	10 MHz	QPSK	2501.0 - 2685.0	0.286	24.56	9M04G7D
		16QAM	2501.0 - 2685.0	0.196	22.92	8M98W7D
	5 MHz	QPSK	2498.5 - 2687.5	0.284	24.53	4M51G7D
		16QAM	2498.5 - 2687.5	0.193	22.85	4M51W7D

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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.

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC 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
- Element Washington DC LLC facility is a registered test laboratory with the site description on file with FCC (Designation Number US1113).

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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 licensed transmitters that operate under the provisions of Part 27.

Test Device Serial No.: 0107M, 0142M, 0163M

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

2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26:2015. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

2.4 Duty Cycle Information

For LTE TDD operation, a call box was used to force maximum transmission for each band. For LTE TDD bands, the maximum duty cycle is 63.3% for PC3.

2.5 Software and Firmware

Testing was performed on device(s) using software/firmware version A185GXXU0AZG1 installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and 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 for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26:2015) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious 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. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated power measurements, substitution method is used per the guidance of ANSI C63.26:2015. For emissions below 1GHz, a half-wave dipole is substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]};$$

where P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

For radiated spurious emissions measurements, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26:2015. Field Strength (EIRP) is calculated using the following formulas:

$$E_{\text{[dB}\mu\text{V/m]}} = \text{Measured amplitude level}_{\text{[dBm]}} + 107 + \text{Cable Loss}_{\text{[dB]}} + \text{Antenna Factor}_{\text{[dB/m]}}$$

And

$$\text{EIRP}_{\text{[dBm]}} = E_{\text{[dB}\mu\text{V/m]}} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

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.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26:2015.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014. 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
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 4-1. Measurement Uncertainty Budget

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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	MD 1M 40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 40
-	AP1-002	EMC Cable and Switch System	2/3/2026	Annual	2/3/2027	AP1-002
-	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
-	LTx1	Licensed Transmitter Cable Set	1/30/2026	Annual	1/30/2027	LTx1
-	LTx2	Licensed Transmitter Cable Set	1/30/2026	Annual	1/30/2027	LTx2
Anritsu	MT8821C	Radio Communication Analyze	9/15/2025	Annual	9/15/2026	6201381794
Anritsu	MT8821C	Radio Communication Analyzer	9/15/2025	Annual	9/15/2026	6201144419
Espec	ESX-2CA	Environmental Chamber	11/20/2024	Biennial	11/20/2026	17620
Keysight Technologies	N9020A	MXA Signal Analyzer (NM)	6/5/2026	Annual	6/5/2027	MY54500644
Keysight Technologies	N9030A	PXA Signal Analyzer	11/3/2025	Annual	11/3/2026	MY54490576
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Sunol	JB5	JB5 Antenna	9/11/2024	Biennial	9/11/2026	A051107
Rohde & Schwarz	FSW26	2Hz-26.5GHz Signal and Spectrum Analyzer	11/18/2025	Annual	11/18/2026	103187
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Test Antenna (1-18GHz)	12/10/2024	Biennial	12/10/2026	101073

Table 5-1. Test Equipment Calibration Table

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 5-2. 1M 18-40 EMC Cable Switch System Components

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

Table 5-3. AP1-002 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 5-4. 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 5-5. AP1-002 EMC Cable Switch System Components

Component	Serial Number
Keysight Directional Coupler, Model: 87300C	55300398
Mini Circuits 6dB Attenuator, BW S6 2W263+	2105
MegaPhase Cable, Model: TM26-S1S1-30	20233001 004

Table 5-6. LTx1 EMC Cable Switch System Components

Component	Serial Number
Keysight Directional Coupler, Model: 87300C	55300391
Mini Circuits 6dB Attenuator, Model: BW S6 2W263+	1845
MegaPhase Cable, Model: TM26-S1S1-30	20233001 006

Table 5-7. LTx2 EMC Cable Switch System Components

Notes:

1. 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.
2. Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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6.0 SAMPLE EMISSION DESIGNATORS

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMA185G
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power	2.1046(a), 2.1046(c)	N/A	PASS	See RF Exposure Report
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.2
	Conducted Band Edge / Spurious Emissions (LTE Band 41)	2.1051, 27.53(m)(4)	Undesirable emissions must meet the limits detailed in 27.53(m)(4)	PASS	Sections 7.3, 7.4
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block	PASS	Section 7.7
RADIATED	Equivalent Isotropic Radiated Power (LTE Band 41)	27.50(h)(2)	≤ 2 Watts max. EIRP	PASS	Section 7.5
	Radiated Spurious Emissions (LTE Band 41)	2.1053, 27.53(m)	Undesirable emissions must meet the limits detailed in 27.53(m)	PASS	Section 7.6

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 were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT 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, attenuators, and couplers.
- 4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.4.0.

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7.2 Occupied Bandwidth

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26:2015 – Section 5.4.4

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB 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 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

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

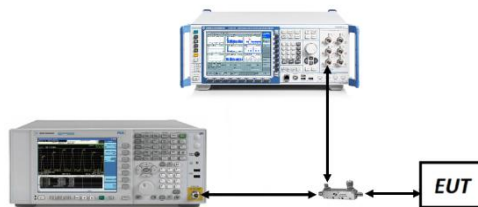


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

None.

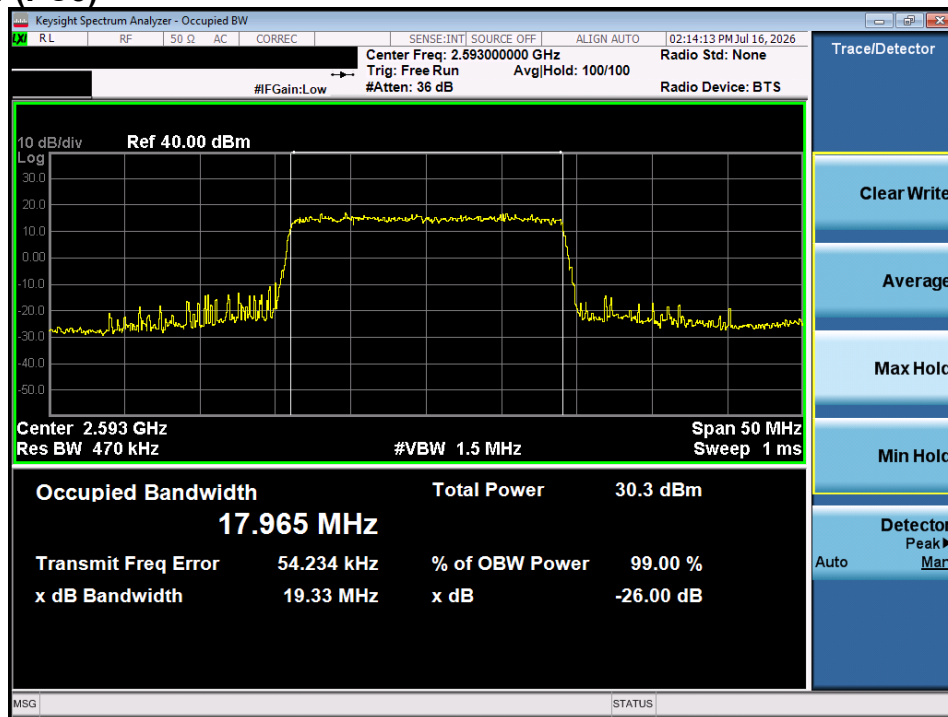
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Mode	Bandwidth	Modulation	OBW [MHz]
LTE Band 41(PC3)	20 MHz	QPSK	17.97
		16QAM	17.89
	15 MHz	QPSK	13.49
		16QAM	13.49
	10 MHz	QPSK	9.04
		16QAM	8.98
	5 MHz	QPSK	4.51
		16QAM	4.51

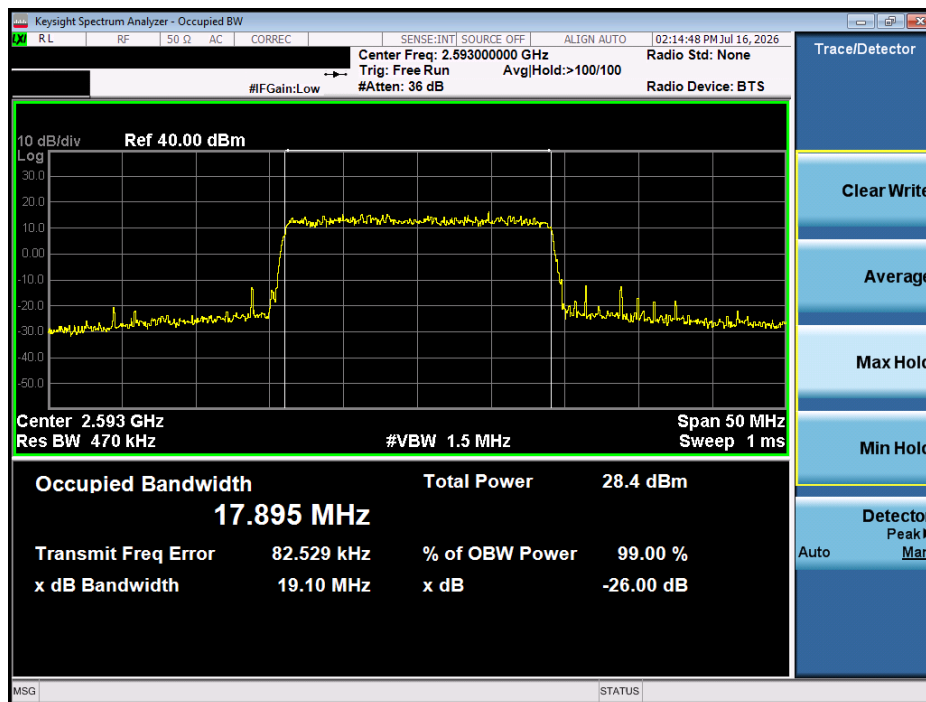
Table 7-2. Occupied Bandwidth Results – Ant 1

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LTE Band 41 (PC3)

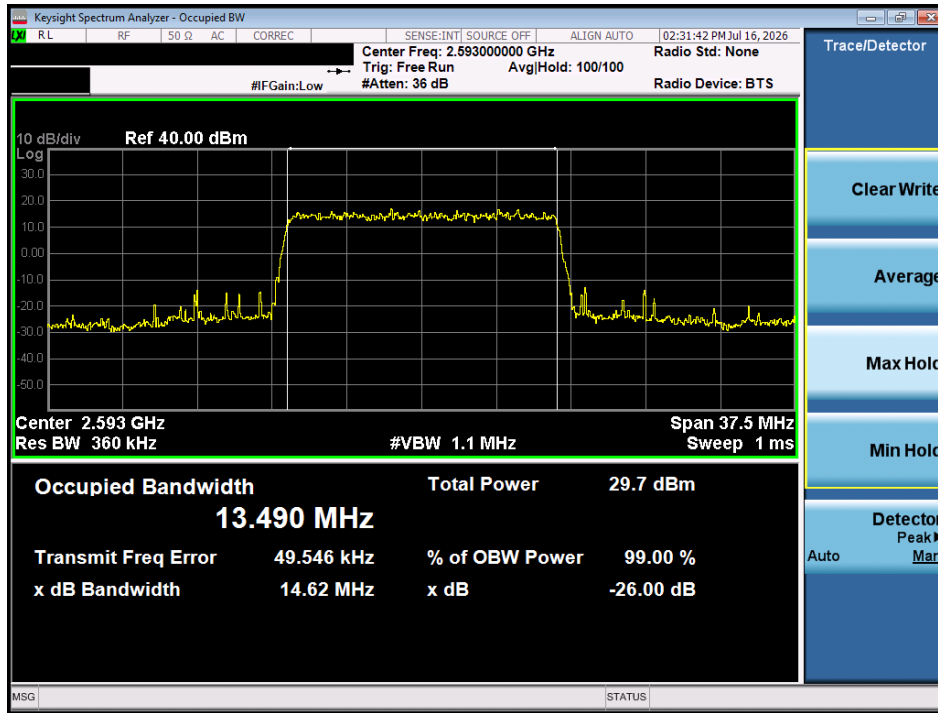


Plot 7-1. Occupied Bandwidth Plot (LTE Band 41 (PC3) - 20MHz QPSK - Full RB)

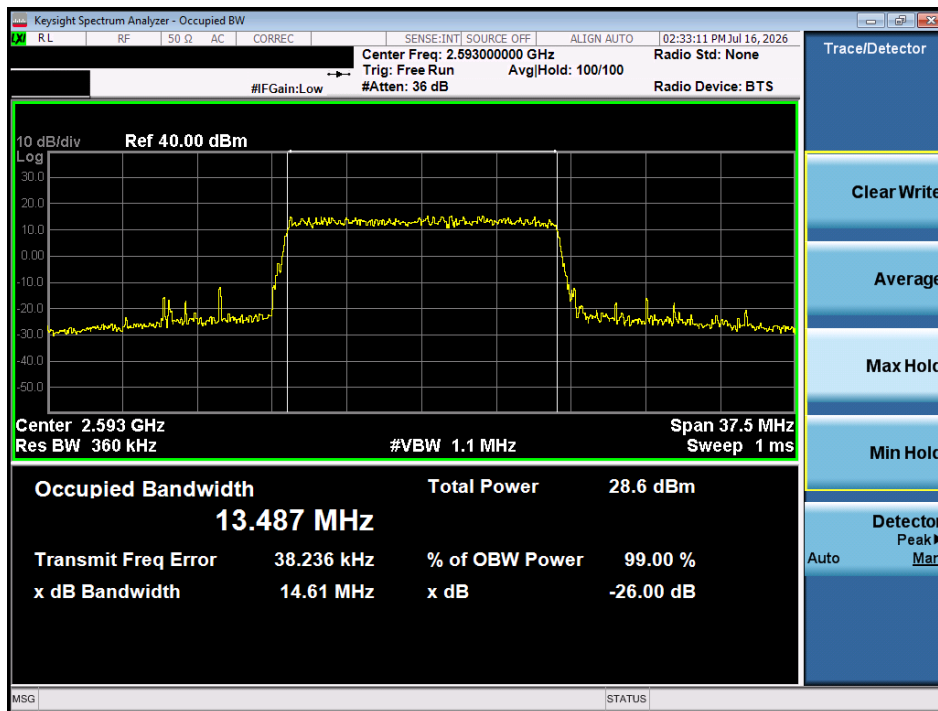


Plot 7-2. Occupied Bandwidth Plot (LTE Band 41 (PC3) - 20MHz 16QAM - Full RB)

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Test Report S/N: 1M2607060061-04-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 37

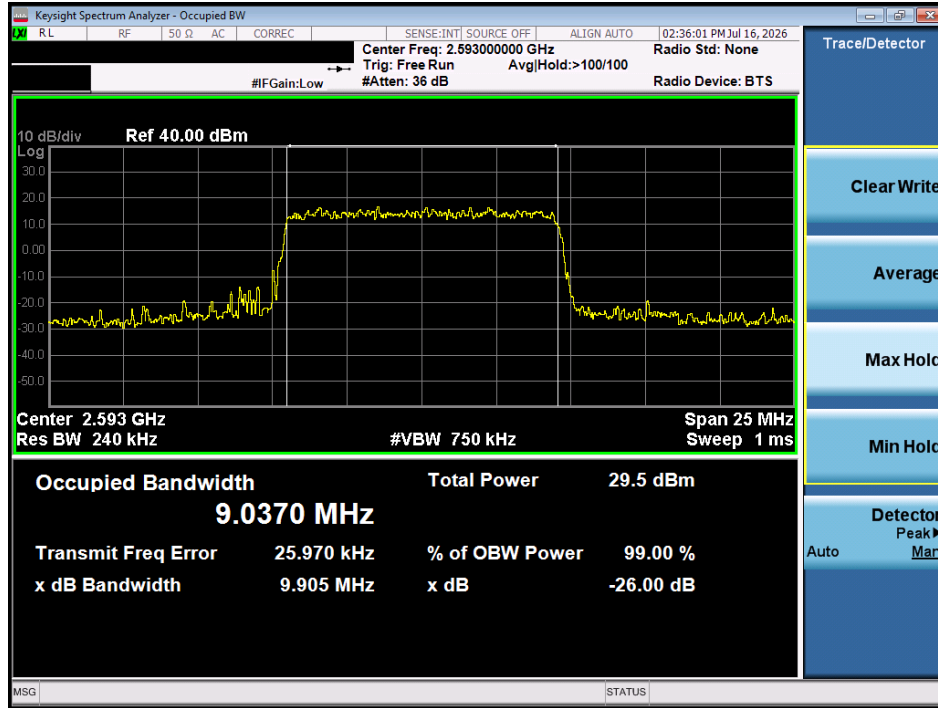


Plot 7-3. Occupied Bandwidth Plot (LTE Band 41 (PC3) - 15MHz QPSK - Full RB)

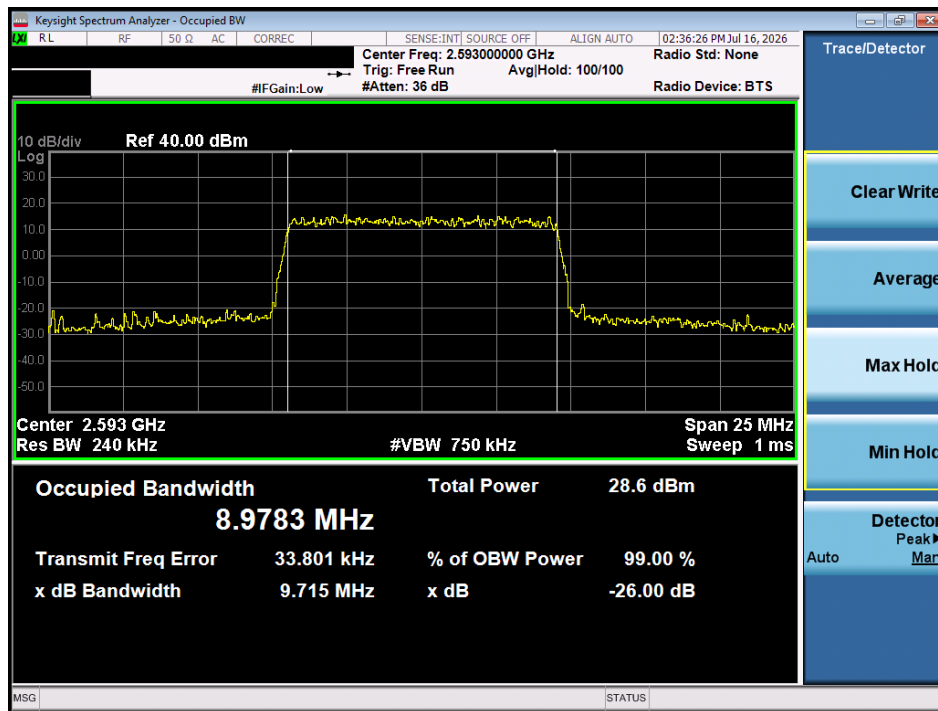


Plot 7-4. Occupied Bandwidth Plot (LTE Band 41 (PC3) - 15MHz 16QAM - Full RB)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

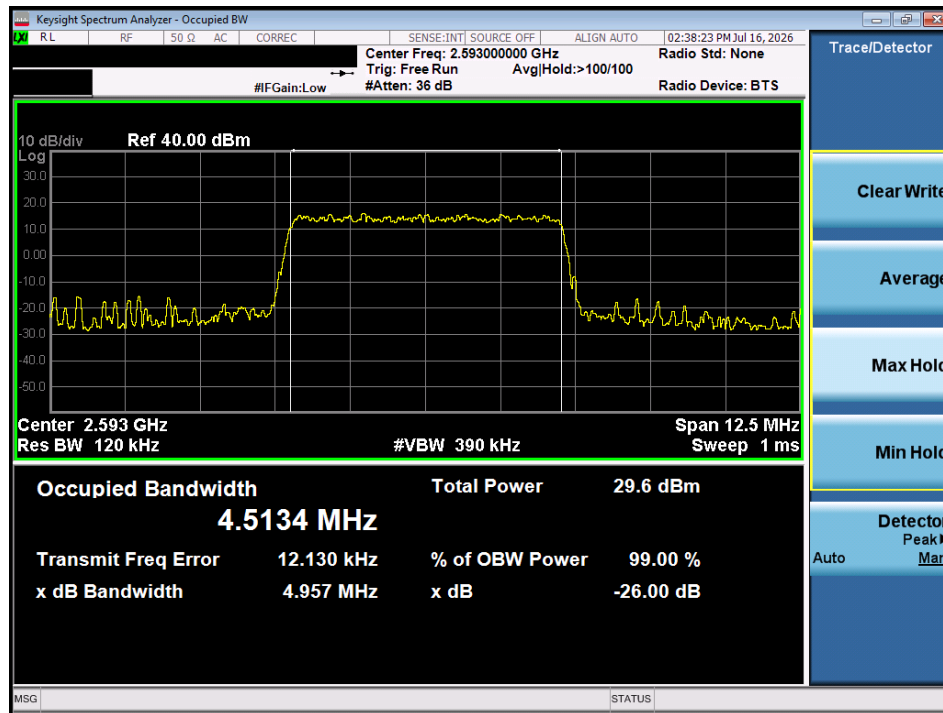


Plot 7-5. Occupied Bandwidth Plot (LTE Band 41 (PC3) - 10MHz QPSK - Full RB)

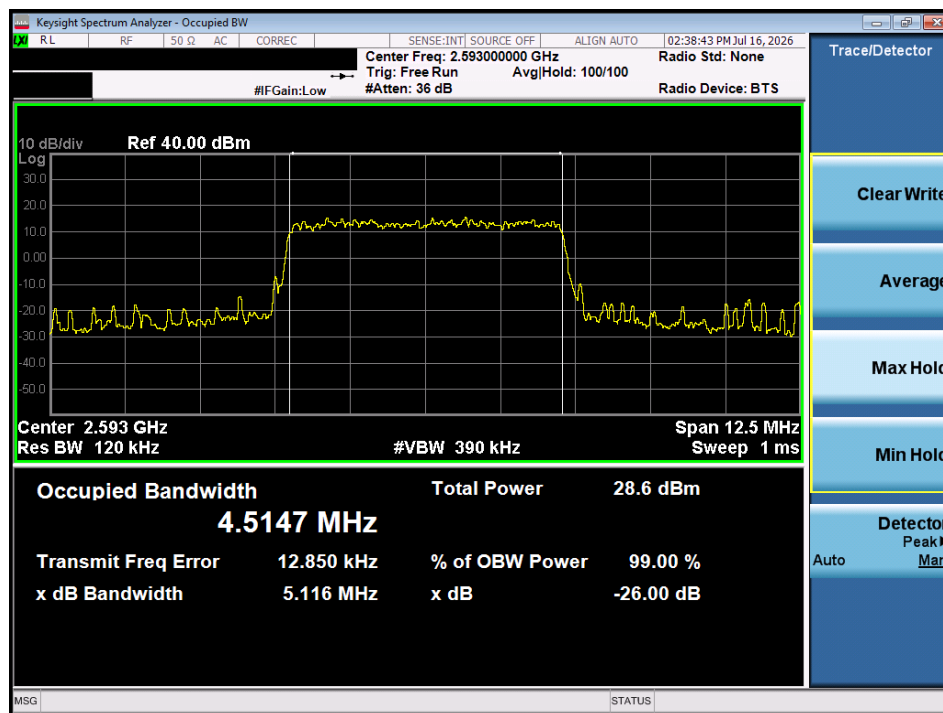


Plot 7-6. Occupied Bandwidth Plot (LTE Band 41 (PC3) - 10MHz 16QAM - Full RB)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37



Plot 7-7. Occupied Bandwidth Plot (LTE Band 41 (PC3) - 5MHz QPSK - Full RB)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 41 (PC3) - 5MHz 16QAM - Full RB)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

7.3 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. 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 maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

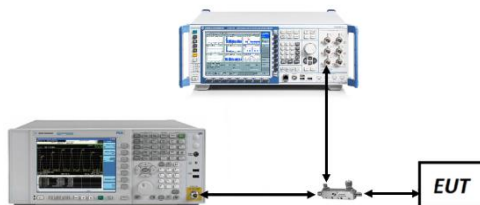


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.

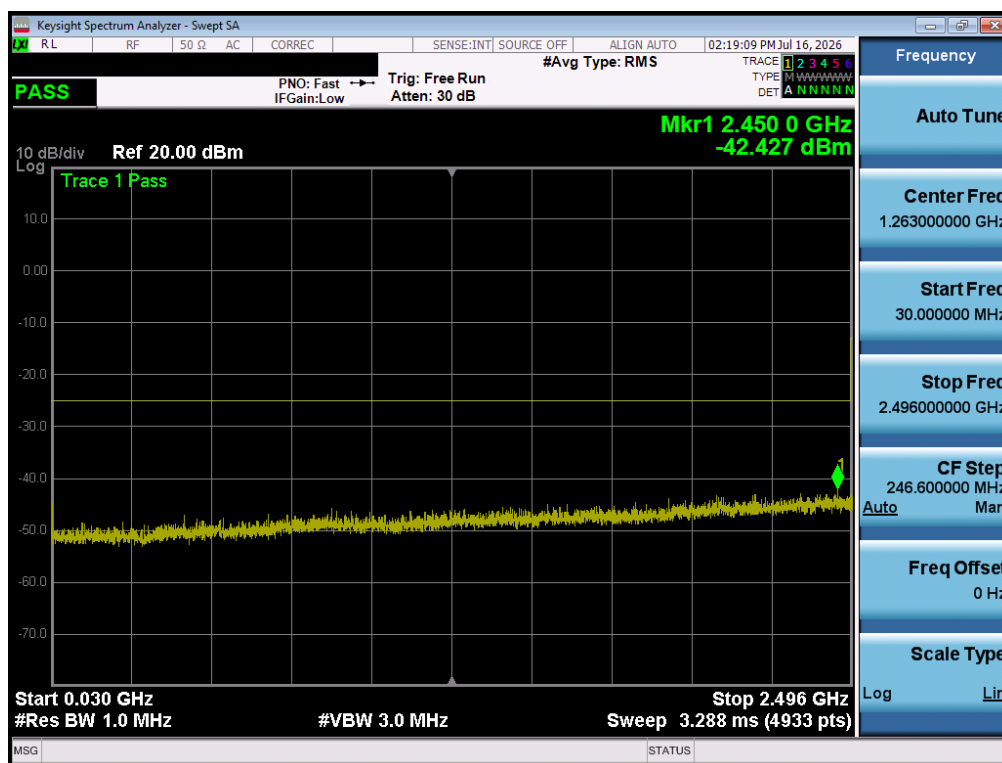
FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 19 of 37

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	30.0 - 2288.0	-41.53	-25	-16.53
		Low	2365.0 - 15000.0	-39.11	-25	-14.11
		Low	15000.0 - 27000.0	-44.53	-25	-19.53
		Mid	30.0 - 2288.0	-42.43	-25	-17.43
		Mid	2570.0 - 15000.0	-38.52	-25	-13.52
		Mid	15000.0 - 27000.0	-45.00	-25	-20.00
		High	30.0 - 2288.0	-42.69	-25	-17.69
		High	2570.0 - 15000.0	-39.11	-25	-14.11
		High	15000.0 - 27000.0	-44.10	-25	-19.10

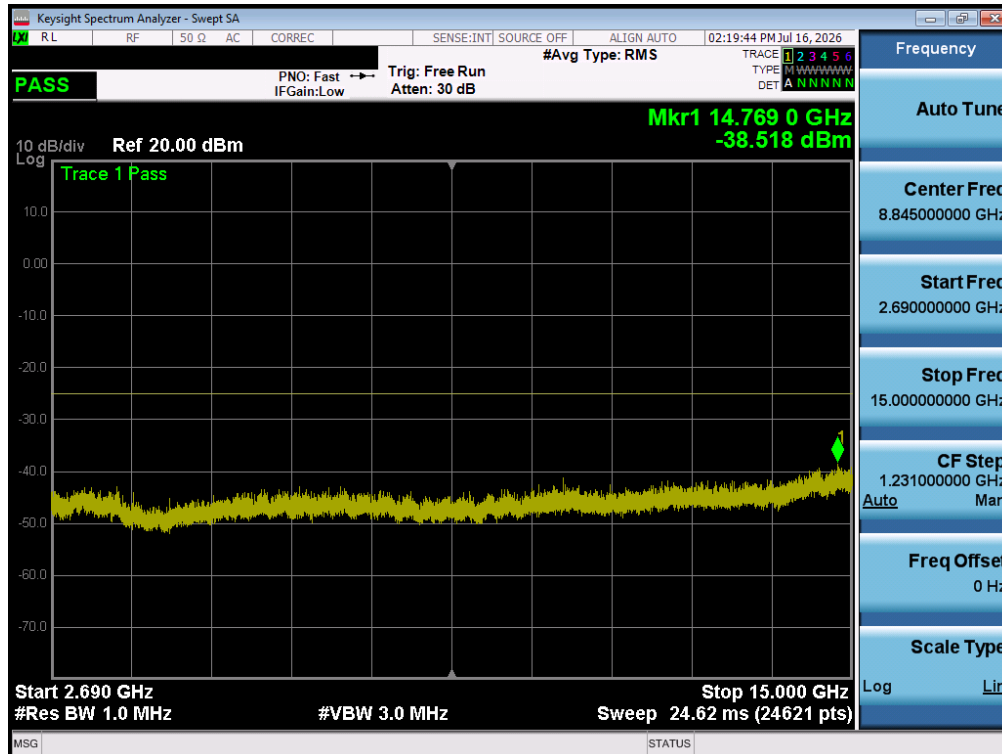
Table 7-3. Conducted Spurious Emissions Results

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

LTE Band 41 (PC3)

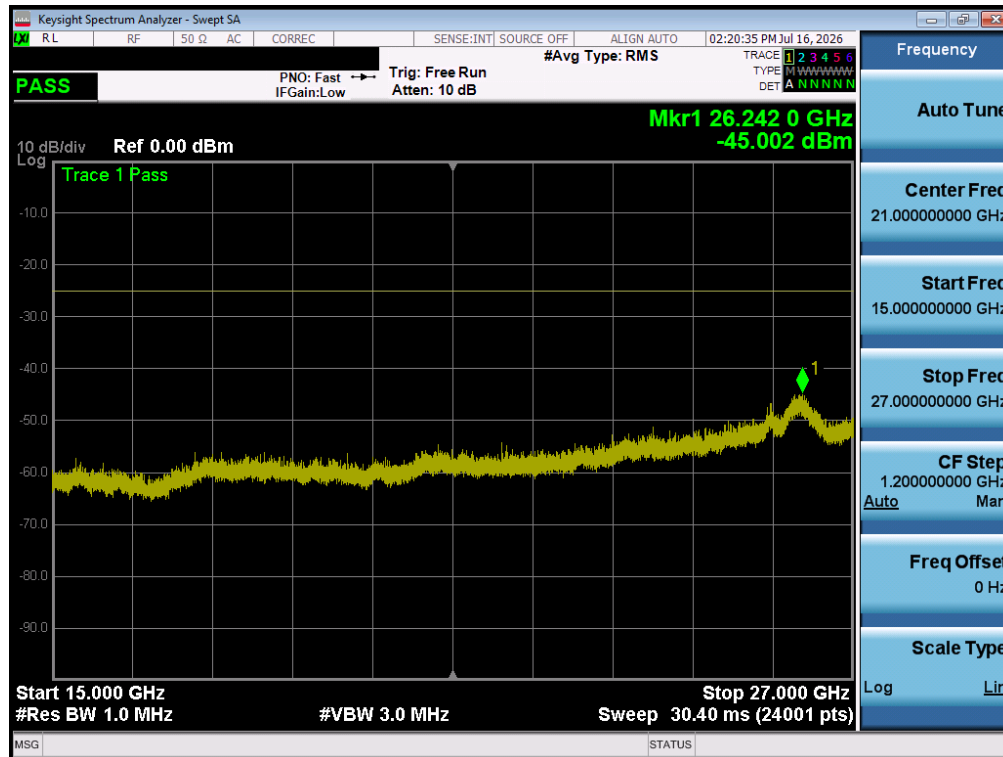


Plot 7-9. Conducted Spurious Plot (LTE Band 41 PC3 - 20MHz QPSK - 1 RB - Mid Channel)



Plot 7-10. Conducted Spurious Plot (LTE Band 41 PC3 - 20MHz QPSK - 1 RB - Mid Channel)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37



Plot 7-11. Conducted Spurious Plot (LTE Band 41 PC3 - 20MHz QPSK - 1 RB - Mid Channel)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

7.4 Band Edge Emissions at Antenna Terminal

Test Overview

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 maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level for Band 41 is as noted in the Test Notes on the following page.

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.3

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 $\geq$ 1% of the emission bandwidth
4. VBW $\geq$ 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq$ 2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
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.

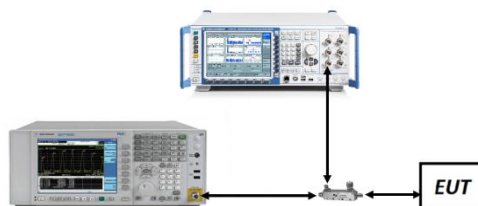


Figure 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

Test Notes

1. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.

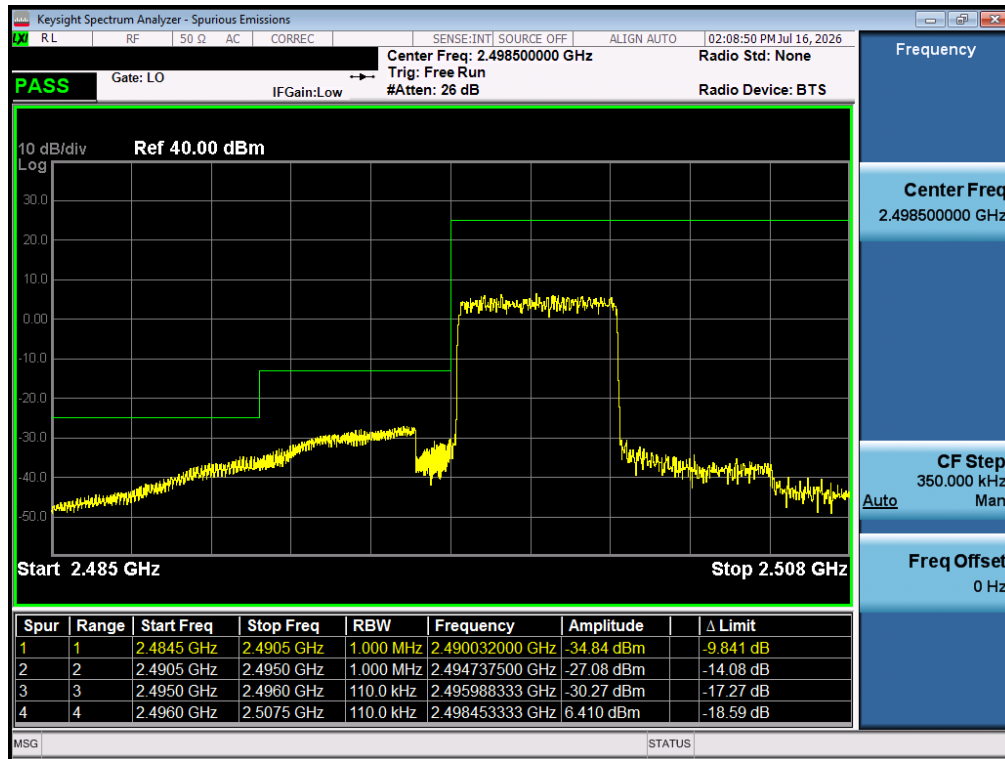
FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 24 of 37

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	Band Edge	-33.71	-25	-8.71
		High	Band Edge	-34.23	-25	-9.23
	15MHz	Low	Band Edge	-32.86	-25	-7.86
		High	Band Edge	-33.55	-25	-8.55
	10MHz	Low	Band Edge	-32.83	-25	-7.83
		High	Band Edge	-33.25	-25	-8.25
	5MHz	Low	Band Edge	-34.84	-25	-9.84
		High	Band Edge	-32.56	-25	-7.56

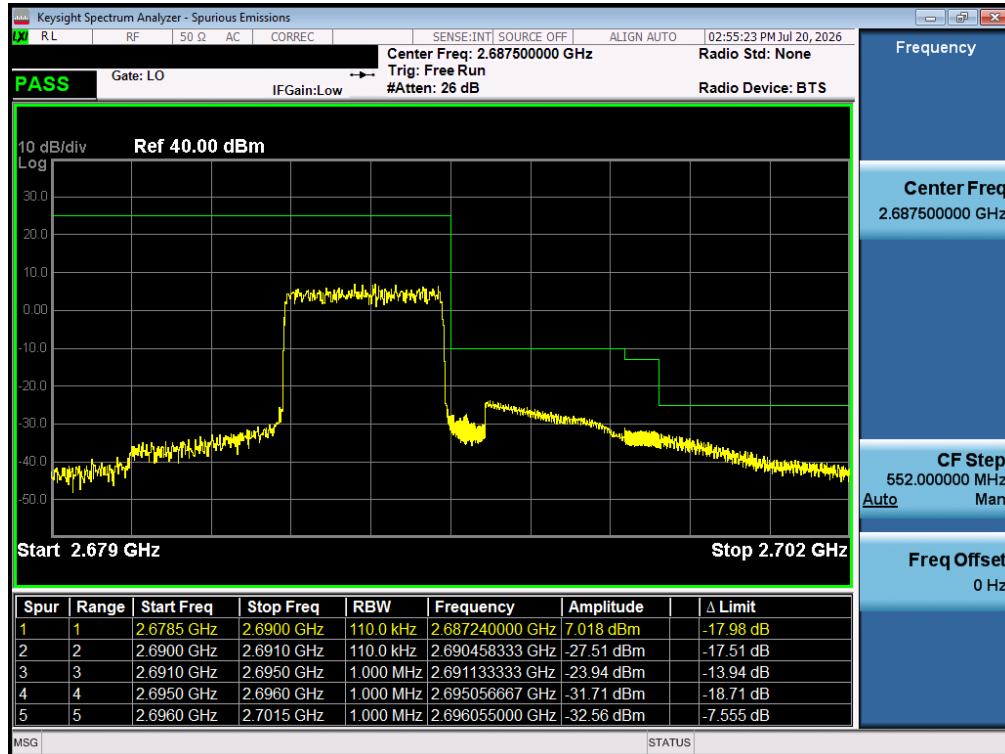
Table 7-4. Conducted Band Edge Results

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

LTE Band 41 (PC3)



Plot 7-12. Lower Band Edge Plot (LTE Band 41 PC3 – 5MHz QPSK – Full RB)



Plot 7-13. Upper Band Edge Plot (LTE Band 41 PC3 – 5MHz QPSK – Full RB)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

7.5 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26:2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26:2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

Test Setup

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

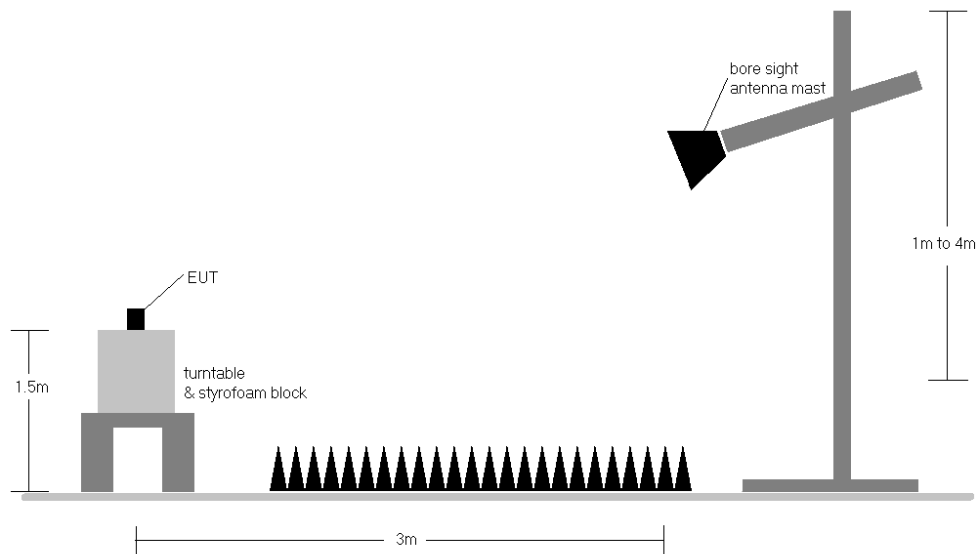


Figure 7-4. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	144	12	4.12	1 / 50	17.46	21.58	0.144	33.01	-11.43
	QPSK	2593.0	H	134	17	4.35	1 / 50	18.75	23.10	0.204	33.01	-9.91
	QPSK	2680.0	H	151	11	4.50	1 / 50	19.96	24.46	0.279	33.01	-8.55
	16-QAM	2506.0	H	144	12	4.12	1 / 50	15.66	19.78	0.095	33.01	-13.23
	16-QAM	2593.0	H	134	17	4.35	1 / 50	17.21	21.56	0.143	33.01	-11.45
	16-QAM	2680.0	H	151	11	4.50	1 / 50	18.27	22.77	0.189	33.01	-10.24
15 MHz	QPSK	2503.5	H	144	12	4.14	1 / 37	17.46	21.60	0.144	33.01	-11.41
	QPSK	2593.0	H	134	17	4.35	1 / 37	18.75	23.10	0.204	33.01	-9.91
	QPSK	2682.5	H	151	11	4.49	1 / 37	19.98	24.47	0.280	33.01	-8.54
	16-QAM	2503.5	H	144	12	4.14	1 / 37	15.67	19.81	0.096	33.01	-13.20
	16-QAM	2593.0	H	134	17	4.35	1 / 37	17.23	21.58	0.144	33.01	-11.43
	16-QAM	2682.5	H	151	11	4.49	1 / 37	18.29	22.78	0.190	33.01	-10.23
10 MHz	QPSK	2501.0	H	144	12	4.16	1 / 25	17.53	21.69	0.148	33.01	-11.32
	QPSK	2593.0	H	134	17	4.35	1 / 25	18.75	23.10	0.204	33.01	-9.91
	QPSK	2685.0	H	151	11	4.49	1 / 25	20.07	24.56	0.286	33.01	-8.45
	16-QAM	2501.0	H	144	12	4.16	1 / 25	15.74	19.90	0.098	33.01	-13.11
	16-QAM	2593.0	H	134	17	4.35	1 / 25	17.23	21.58	0.144	33.01	-11.43
	16-QAM	2685.0	H	151	11	4.49	1 / 25	18.43	22.92	0.196	33.01	-10.09
5 MHz	QPSK	2498.5	H	144	12	4.17	1 / 12	17.47	21.64	0.146	33.01	-11.37
	QPSK	2593.0	H	134	17	4.35	1 / 12	18.76	23.11	0.205	33.01	-9.90
	QPSK	2687.5	H	151	11	4.48	1 / 12	20.05	24.53	0.284	33.01	-8.48
	16-QAM	2498.5	H	144	12	4.17	1 / 12	15.67	19.84	0.096	33.01	-13.17
	16-QAM	2593.0	H	134	17	4.35	1 / 12	17.22	21.57	0.144	33.01	-11.44
	16-QAM	2687.5	H	151	11	4.48	1 / 12	18.37	22.85	0.193	33.01	-10.16
20 MHz	Opposite Pol.	2680.0	V	105	84	4.35	1 / 50	18.31	22.66	0.185	33.01	-10.35

Table 7-5. EIRP Data (LTE Band 41 PC3)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

7.6 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26:2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26:2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 37

Test Setup

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

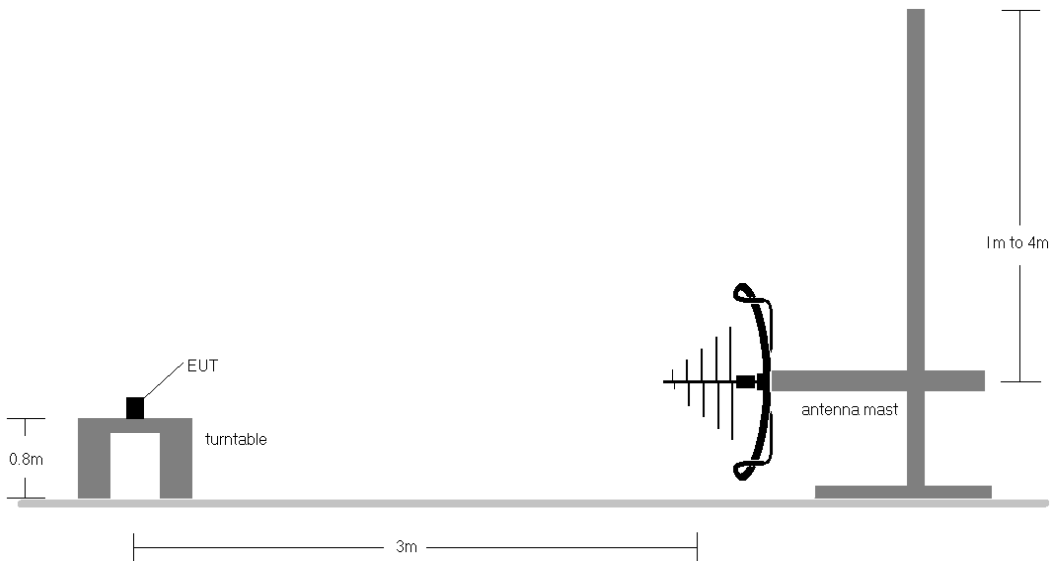


Figure 7-5. Test Instrument & Measurement Setup < 1GHz

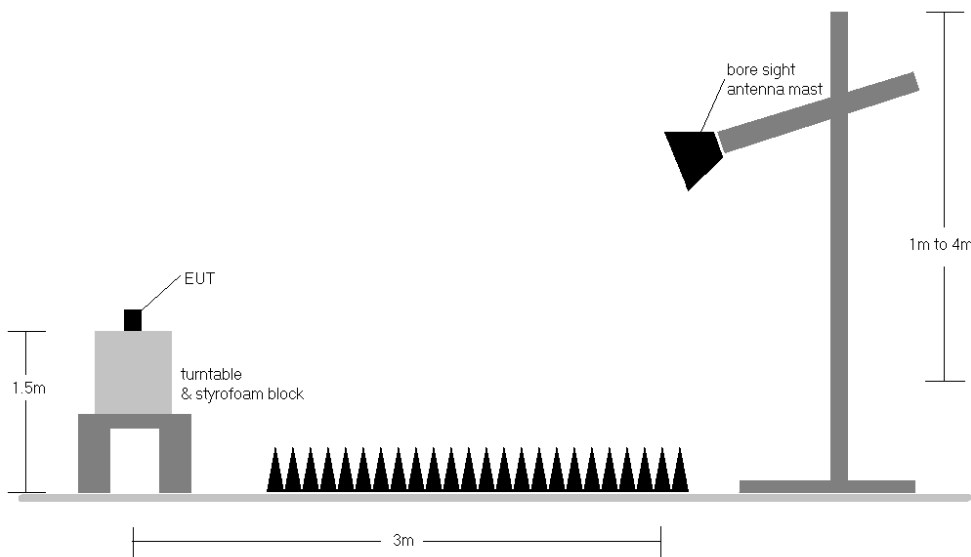


Figure 7-6. Test Instrument & Measurement Setup >1 GHz

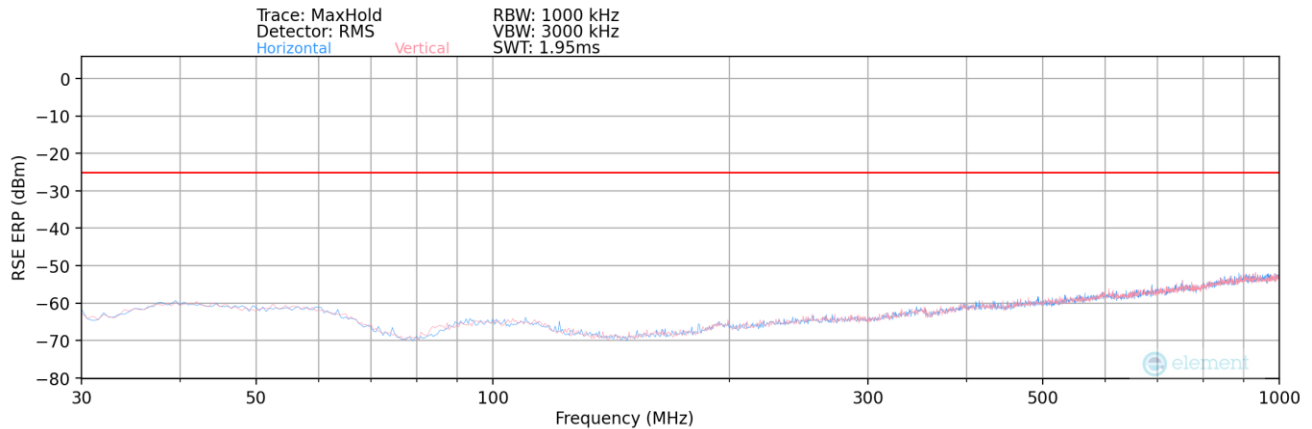
FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 31 of 37

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 32 of 37

LTE Band 41 (PC3)

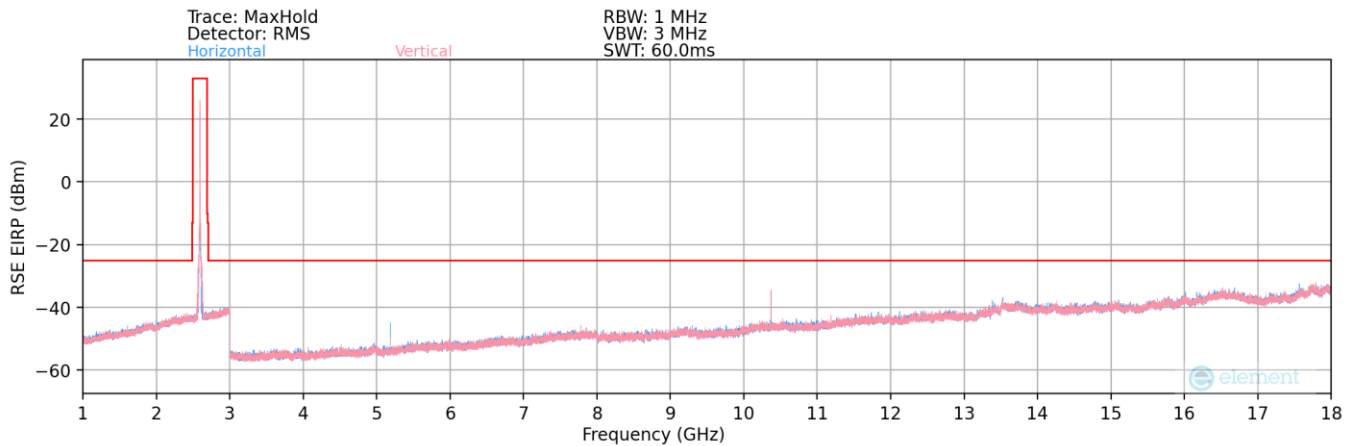


Plot 7-14. Radiated Spurious Plot (LTE Band 41 PC3)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
180.00	H	-	-	-60.56	-15.83	30.61	-66.80	-25.00	-41.80

Table 7-6. Radiated Spurious Data (LTE Band 41 PC3)



Plot 7-15. Radiated Spurious Plot (LTE Band 41 PC3)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 33 of 37

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	H	171	315	-73.41	10.20	43.79	-51.47	-25.00	-26.47
7518.00	V	400	329	-72.46	15.42	49.96	-45.30	-25.00	-20.30
10024.00	V	102	340	-67.11	18.56	58.45	-36.81	-25.00	-11.81
12530.00	V	-	-	-75.08	23.24	55.16	-40.10	-25.00	-15.10
15036.00	V	-	-	-76.12	26.90	57.78	-37.48	-25.00	-12.48
17542.00	V	-	-	-74.65	30.40	62.75	-32.50	-25.00	-7.50

Table 7-7. Radiated Spurious Data (LTE Band 41 PC3 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	400	309	-66.51	10.24	50.73	-44.53	-25.00	-19.53
7779.00	V	103	189	-80.53	15.53	42.00	-53.26	-25.00	-28.26
10372.00	V	102	339	-59.98	19.41	66.43	-28.83	-25.00	-3.83
12965.00	V	-	-	-75.90	24.30	55.40	-39.86	-25.00	-14.86
15558.00	V	-	-	-76.32	28.79	59.47	-35.79	-25.00	-10.79
18151.00	V	-	-	-60.73	1.18	47.45	-57.35	-25.00	-32.35

Table 7-8. Radiated Spurious Data (LTE Band 41 PC3 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	H	143	3	-64.98	10.59	52.61	-42.65	-25.00	-17.65
8040.00	V	344	237	-74.05	16.00	48.95	-46.31	-25.00	-21.31
10720.00	V	132	19	-60.85	20.35	66.50	-28.76	-25.00	-3.76
13400.00	V	-	-	-74.99	24.85	56.86	-38.40	-25.00	-13.40
16080.00	V	-	-	-75.53	28.49	59.96	-35.30	-25.00	-10.30
18760.00	V	-	-	-60.40	1.38	47.98	-56.82	-25.00	-31.82

Table 7-9. Radiated Spurious Data (LTE Band 41 PC3 – High Channel)

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2607060061-04-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 34 of 37

7.7 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26:2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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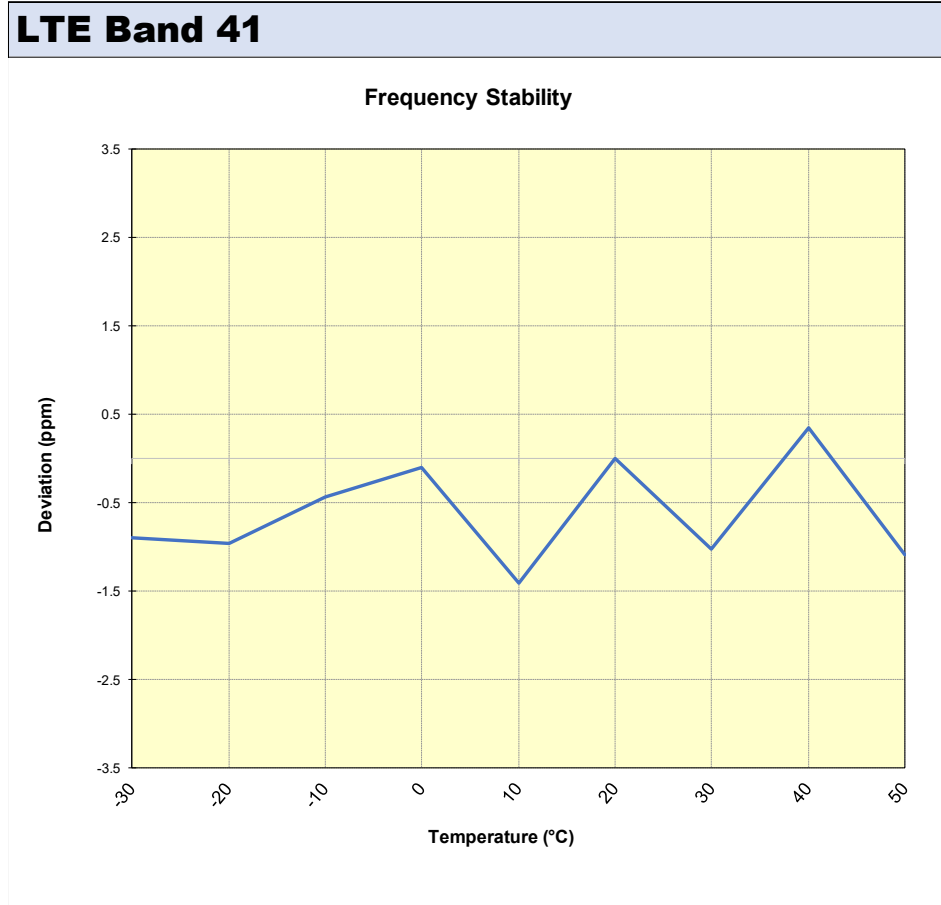
LTE Band 41 (PC3)

LTE Band 41

Operating Frequency (Hz):		2,593,000,000			
Ref. Voltage (VDC):		4.443			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.443	- 30	2,593,091,696	-2,332	-0.0000899
		- 20	2,593,091,538	-2,490	-0.0000960
		- 10	2,593,092,885	-1,143	-0.0000441
		0	2,593,093,760	-268	-0.0000103
		+ 10	2,593,090,364	-3,664	-0.0001413
		+ 20 (Ref)	2,593,094,028	0	0.0000000
		+ 30	2,593,091,366	-2,662	-0.0001027
		+ 40	2,593,094,911	883	0.0000341
Battery Endpoint	3.644	+ 50	2,593,091,201	-2,827	-0.0001090
		+ 20	2,593,093,366	-662	-0.0000255

Table 7-10. LTE Band 41 PC3 Frequency Stability Data

LTE Band 41



Plot 7-16. LTE Band 41 PC3 Frequency Stability Chart

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA185G** complies with all the requirements of Part 27 of the FCC rules.

- END OF TEST REPORT -

FCC ID: A3LSMA185G		Test Dates: 7/8/2026 - 7/27/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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