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PART 25 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

2/24/2026 - 4/17/2026

Test Report Issue Date:

5/5/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2602190015-04-R1.A3L

FCC ID:

A3LSMF776U

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-F776U

Additional Model(s):

SM-F776U1

EUT Type:

Portable Handset

FCC Classification:

Licensed Non-Broadcast Transmitter Held to Ear (TNE)

FCC Rule Part:

25

Test Procedure(s):

ANSI C63.26-2015, KDB 648474 D03 v01r04

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N:1M2602190015-04-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2602190015-04.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

RJ Ortanez
Executive Vice President



FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 1 of 84

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V11.2 09/11/2024

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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	4/24/2026	WKR0000005883
1	Addressed comments made by TCB reviewer	5/5/2026	WKR0000005883

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 2 of 84

MEASUREMENT REPORT

FCC Part 25

Antenna-1						
Mode	SCS	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NTN BAND 255	3.75kHz / 15kHz	BPSK	1626.6 - 1660.4	0.127	21.02	194KG7D
		QPSK	1626.6 - 1660.4	0.126	21.00	194KG7D

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 3 of 84

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	6
2.4	Software and Firmware	6
2.5	EMI Suppression Device(s)/Modifications	6
3.0	DESCRIPTION OF TESTS	7
3.1	Evaluation Procedure	7
3.2	Radiated Power and Radiated Spurious Emissions	7
4.0	MEASUREMENT UNCERTAINTY	8
5.0	TEST EQUIPMENT CALIBRATION DATA	9
6.0	SAMPLE EMISSION DESIGNATORS	11
7.0	TEST RESULTS	12
7.1	Summary.....	12
7.2	Conducted Output Power Data	13
7.3	Occupied Bandwidth	16
7.4	Conducted Emissions Mask	21
7.5	Conducted Spurious Emission	43
7.6	Radiated Power (EIRP)	68
7.7	Radiated Spurious Emissions Measurements	71
7.8	Radiated Spurious Emissions Measurements (1559 – 1610MHz)	76
7.9	Carrier-Off State Emissions Measurements (1559 – 1610MHz).....	79
7.10	Frequency Stability / Temperature Variation	82
8.0	CONCLUSION.....	84

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 4 of 84

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 indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

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

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

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 5 of 84

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMF776U**. 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 25.

Test Device Serial No.: 0128M, 0358M, 0775M, 0791M

2.2 Device Capabilities

This device contains the following capabilities:

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

For NTN operation under B255 (1626.5 – 1660.5MHz), this device supports both 3.75kHz and 15kHz subcarrier spacings with QPSK and BPSK modulations.

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.

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

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: EP-N2400 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version F776USQU0AZC9 installed on the EUT.

2.5 EMI Suppression Device(s)/Modifications

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

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 6 of 84

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.

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 7 of 84

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

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 8 of 84

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
-	AP1-002	EMC Cable and Switch System	2/3/2026	Annual	2/3/2027	AP1-002
-	ETS-001	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-001
-	ETS-002	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-002
-	LTx6-40	Licensed Transmitter Cable Set	1/30/2026	Annual	1/30/2027	LTx6-40
-	WL25-1	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-2
Anritsu	MA24408A	POWER SENSOR	1/27/2026	Annual	1/27/2027	11676
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
Espec	ESX-2CA	Environmental Chamber	11/20/2024	Biennial	11/20/2026	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
ETS-Lindgren	3164-05	Quad Ridge Horn (Small) 2 - 18GHz	6/4/2025	Biennial	6/4/2027	208255
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	5/12/2025	Annual	5/12/2026	103200
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	1/16/2026	Annual	1/16/2027	100348
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107

Table 5-1. Test Equipment Calibration Table

Notes:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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 5-2. AP1-002 EMC Cable and Switch System Components

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

Table 5-3. ETS-001 EMC Cable and Switch System Components

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 9 of 84

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

Table 5-4. ETS-002 EMC Cable and Switch System Components

Component	Serial Number
Fairview Microwave Directional Coupler, FM2CP1122-10	2122
MCL 6dB Attenuator, Model: BW-K6 2W44+	2013
MegaPhase Cable, Model: TM40-K1K1-30	20233002 003

Table 5-5. LTx6-40 Licensed Transmitter Cable Set Components

Component	Serial Number
MegaPhase Cable, Model: TM26-S1S1-36	18160103 003
Pasternack 6dB Attenuator, Model: PE7005-6	N/A

Table 5-6. WL25-1 Conducted Cable Set Components

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

Table 5-7. WL25-2 Conducted Cable Set Components

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 10 of 84

6.0 SAMPLE EMISSION DESIGNATORS

PSK Modulation

Emission Designator = 200KG7D

BW = 200 kHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 11 of 84

7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMF776U
 FCC Classification: Licensed Non-Broadcast Transmitter Held to Ear (TNE)
 Mode(s): NTN

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power	2.1046, 25.204(a)	40dBW(max)	PASS	Section 7.2
	Occupied Bandwidth	2.1049	N/A	PASS	Section 7.3
	Conducted Emission Mask; Conducted Spurious Emissions	2.1051, 25.202(f)	25.202(f)	PASS	Sections 7.4, 7.5
	Frequency Stability	2.1055, 25.202(d)	<0.001% of reference frequency	PASS	Section 7.10
RADIATED	Equivalent Isotropic Radiated Power	2.1046, 25.204(a)	40dBW(max)	PASS	Section 7.6
	Radiated Spurious Emissions	25.202(f)	> 43 + 10 log ₁₀ P[Watts] for all out-of-band emissions	PASS	Section 7.7
	Radiated Spurious Emissions (1559 - 1610MHz)	25.216(c/h)	< -70dBW/MHz for emissions in the band 1559 - 1605MHz; < -46dBW/MHz at 1610MHz	PASS	Section 7.8
	Carrier-Off State Emissions (1559 - 1610MHz)	25.216(i)	< -80dBW/MHz for emissions in the band 1559 - 1610MHz	PASS	Section 7.9

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 v2.3.0.

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 12 of 84

7.2 Conducted Output Power Data

Test Overview

All emissions are measured with a power meter 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. 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 5.2.4.2

Test Settings

1. Detector = RMS
2. Trace mode = trace average for continuous emissions
3. The trace was allowed to stabilize

Test Setup

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

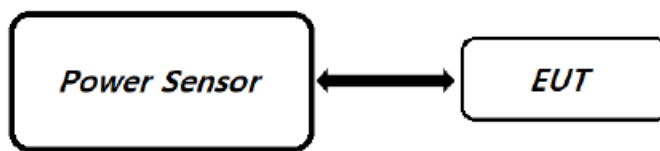


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. The conducted powers were measured with FTM software used to allow 100% duty cycle transmission.
2. For NB operation in this band, the 3.75kHz and 15kHz subcarrier spacings support both QPSK and BPSK modulation as shown in the following tables.

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 13 of 84

SCS	SC Size	Tx Channel	Frequency [MHz]	Conducted Power [dBm]	
				BPSK	QPSK
3.75kHz	1SC0	261505	1626.6	24.67	24.62
	1SC24	261505	1626.6	25.22	25.20
	1SC47	261505	1626.6	24.88	24.94
15kHz	1SC0	261505	1626.6	25.08	25.04
	1SC6	261505	1626.6	25.19	25.17
	1SC11	261505	1626.6	24.83	24.94
	3SC0	261505	1626.6	N/A	22.55
	3SC6	261505	1626.6	N/A	22.78
	3SC9	261505	1626.6	N/A	22.51
	6SC0	261505	1626.6	N/A	22.53
	6SC6	261505	1626.6	N/A	22.65
	12SC0	261505	1626.6	N/A	22.65

Table 7-2. Conducted Power Result - Low Channel

SCS	SC Size	Tx Channel	Frequency [MHz]	Conducted Power [dBm]	
				BPSK	QPSK
3.75kHz	1SC0	261674	1643.5	24.41	24.55
	1SC24	261674	1643.5	24.75	24.90
	1SC47	261674	1643.5	24.39	24.55
15kHz	1SC0	261674	1643.5	24.67	24.45
	1SC6	261674	1643.5	24.95	24.76
	1SC11	261674	1643.5	24.71	24.70
	3SC0	261674	1643.5	N/A	21.91
	3SC6	261674	1643.5	N/A	22.01
	3SC9	261674	1643.5	N/A	21.90
	6SC0	261674	1643.5	N/A	21.99
	6SC6	261674	1643.5	N/A	22.09
	12SC0	261674	1643.5	N/A	21.92

Table 7-3. Conducted Power Result - Mid Channel

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 14 of 84

SCS	SC Size	Tx Channel	Frequency [MHz]	Conducted Power [dBm]	
				BPSK	QPSK
3.75kHz	1SC0	261843	1660.4	24.51	24.55
	1SC24	261843	1660.4	25	25.02
	1SC47	261843	1660.4	24.57	24.58
15kHz	1SC0	261843	1660.4	25.05	24.99
	1SC6	261843	1660.4	25.15	25.17
	1SC11	261843	1660.4	24.87	24.76
	3SC0	261843	1660.4	N/A	22.45
	3SC6	261843	1660.4	N/A	22.51
	3SC9	261843	1660.4	N/A	22.52
	6SC0	261843	1660.4	N/A	22.52
	6SC6	261843	1660.4	N/A	22.43
	12SC0	261843	1660.4	N/A	22.50

Table 7-4. Conducted Power Result - High Channel

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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7.3 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 7-2. Test Instrument & Measurement Setup

Test Notes

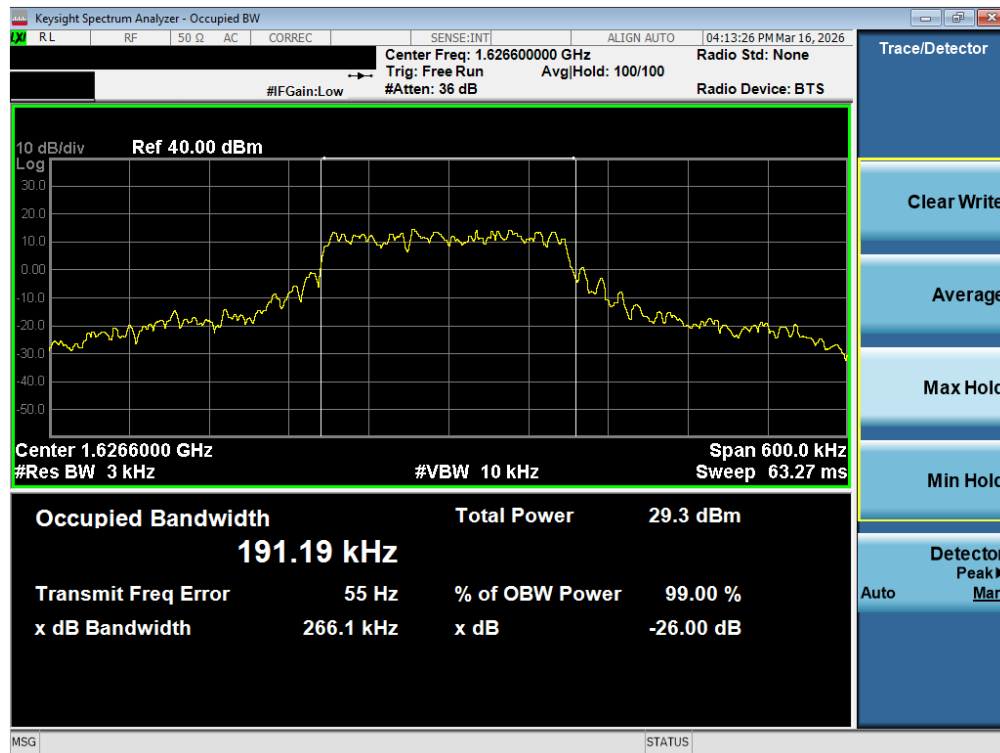
None.

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 84

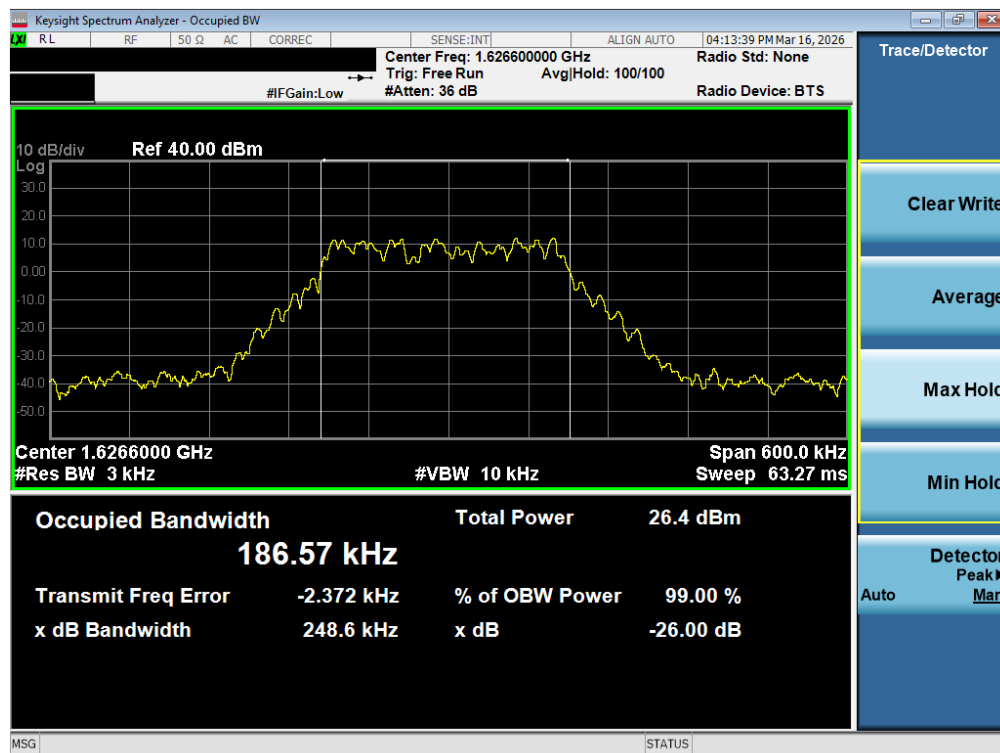
Mode	SCS / SC Size	Modulation	Channel	OBW [kHz]
NTN BAND 255	15kHz/ 12SC0	BPSK	Low	191.19
		QPSK	Low	186.57
		BPSK	Mid	194.01
		QPSK	Low	193.34
		BPSK	High	183.41
		QPSK	High	183.44

Table 7-5. Occupied Bandwidth Results

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 84

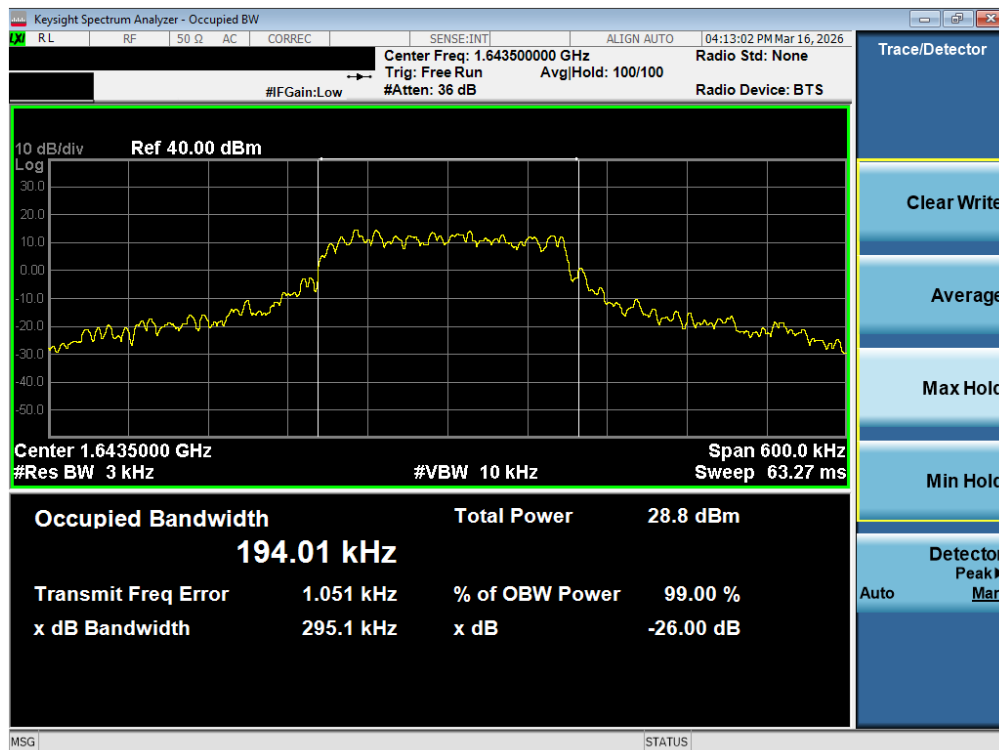


Plot 7-1. Bandwidth Plot (Band n255, Low Channel) - BPSK

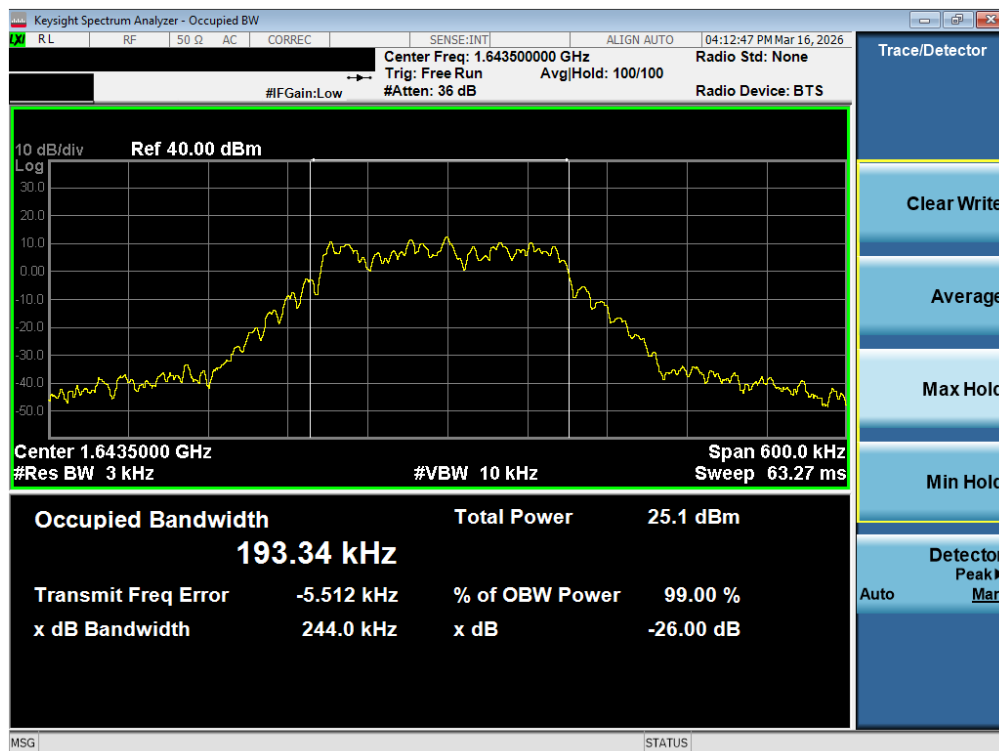


Plot 7-2. Bandwidth Plot (Band n255, Low Channel) - QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 84

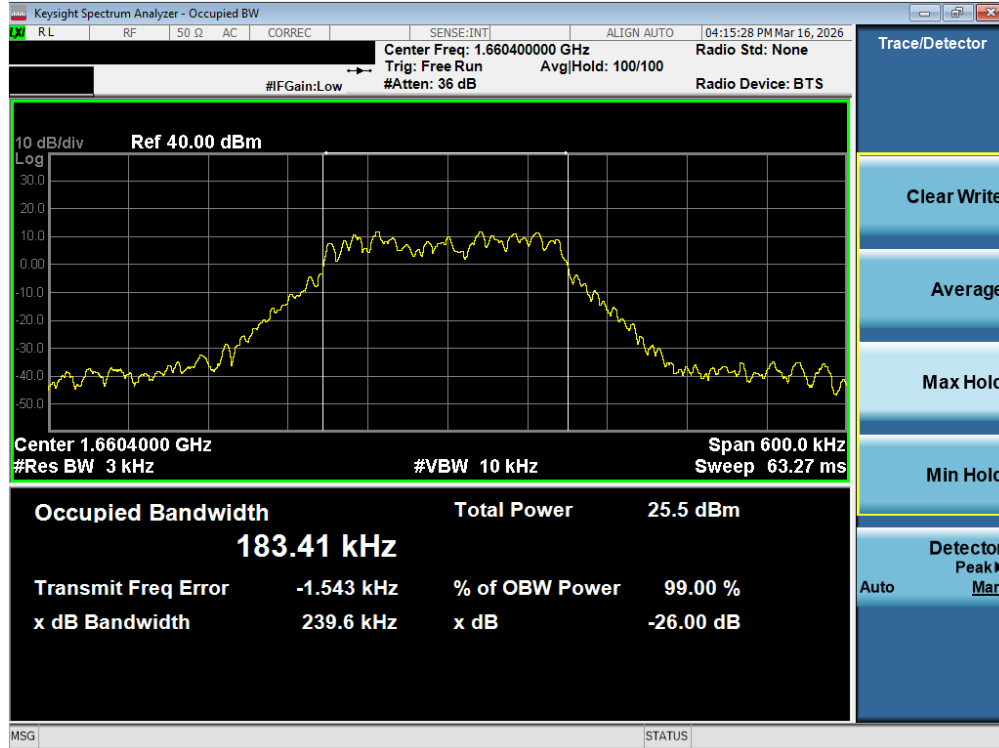


Plot 7-3. Bandwidth Plot (Band n255, Mid Channel) - BPSK

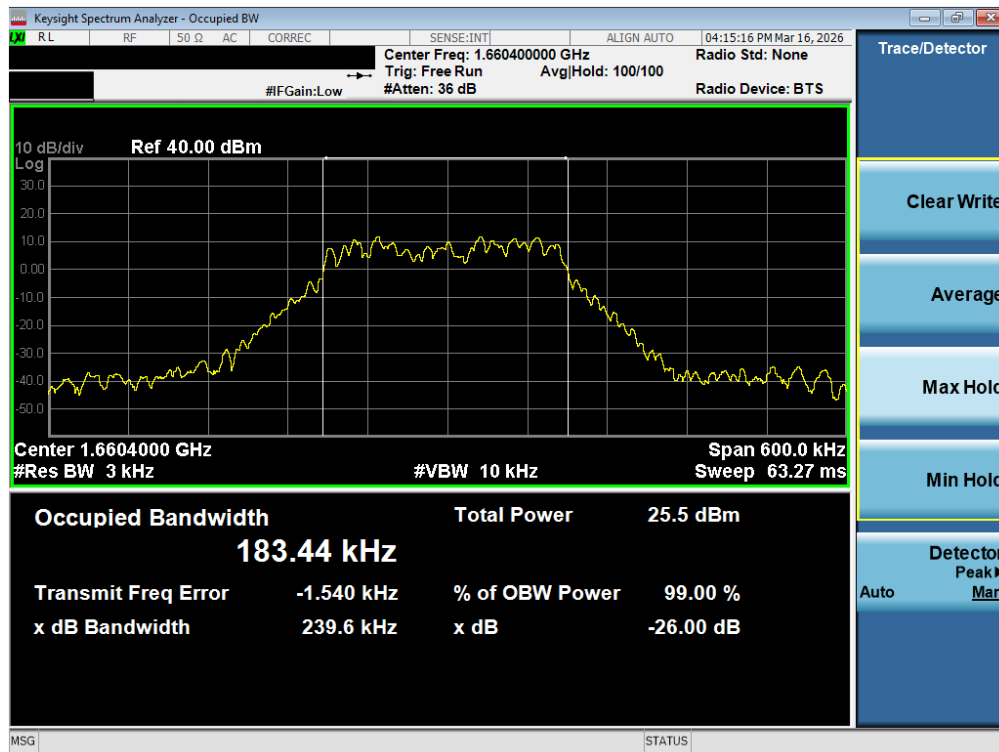


Plot 7-4. Bandwidth Plot (Band n255, Mid Channel) - QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Plot 7-5. Bandwidth Plot (Band n255, High Channel) - BPSK



Plot 7-6. Bandwidth Plot (Band n255, High Channel) - QPSK

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7.4 Conducted Emissions Mask

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.

Per FCC Part 25.202(f):

Emission limitations.

(1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB;

(2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 dB;

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. EUT is connected to the spectrum analyzer.
2. Highest Power within the transmitting signal is measured.
3. Worst Case Emissions are identified and measured
4. See Notes regarding RBW

Test Setup

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

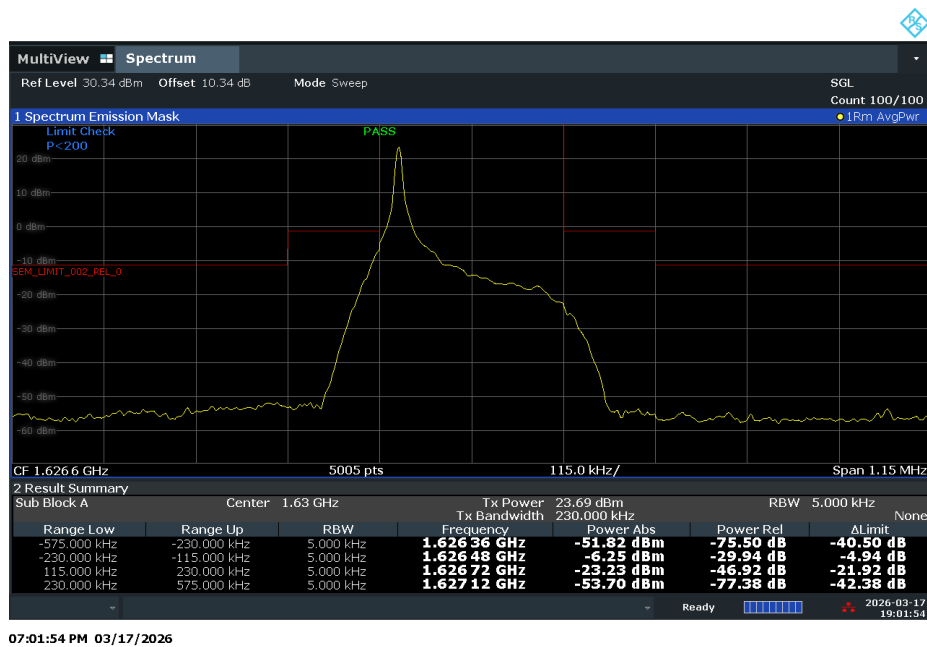


Figure 7-3. Test Instrument & Measurement Setup

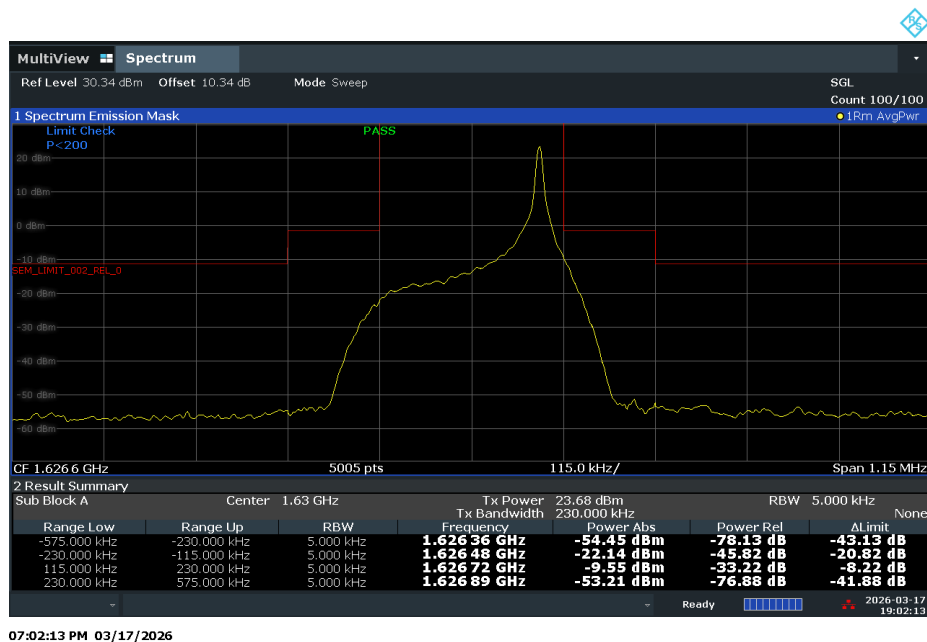
Test Notes

1. Due to measurement equipment limitations a RBW of 4KHz is not available. To ensure worst-case result a RBW = 5kHz and a VBW = 20kHz was utilized.
2. For purposes of the emission mask testing in this section, the manufacturer has declared an authorized bandwidth of 230kHz.
3. Limit lines are based on dBc limits in FCC Part 25.202(f), this is based of the measured carrier power using the Spectrum Emission Mask function of the spectrum analyzer.

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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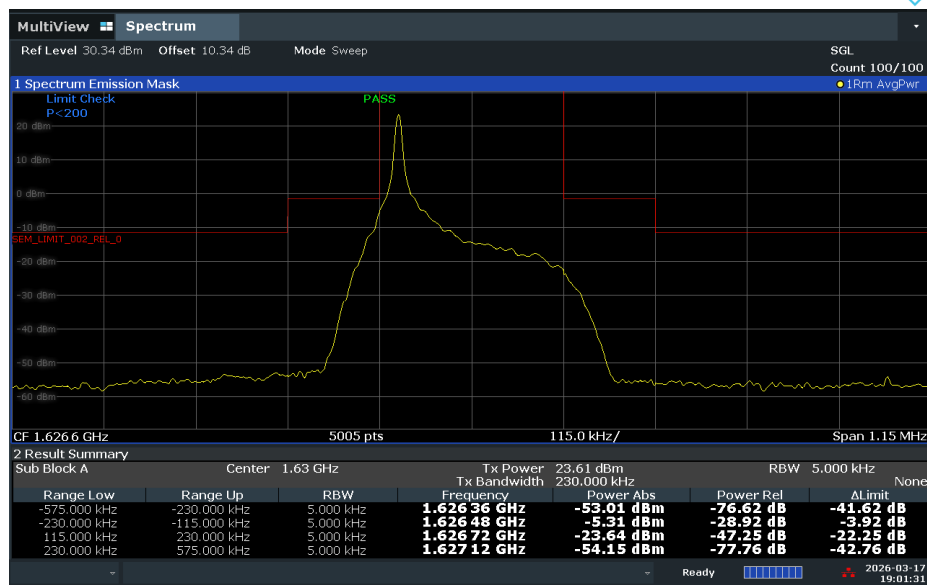


Plot 7-7. Low Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – BPSK



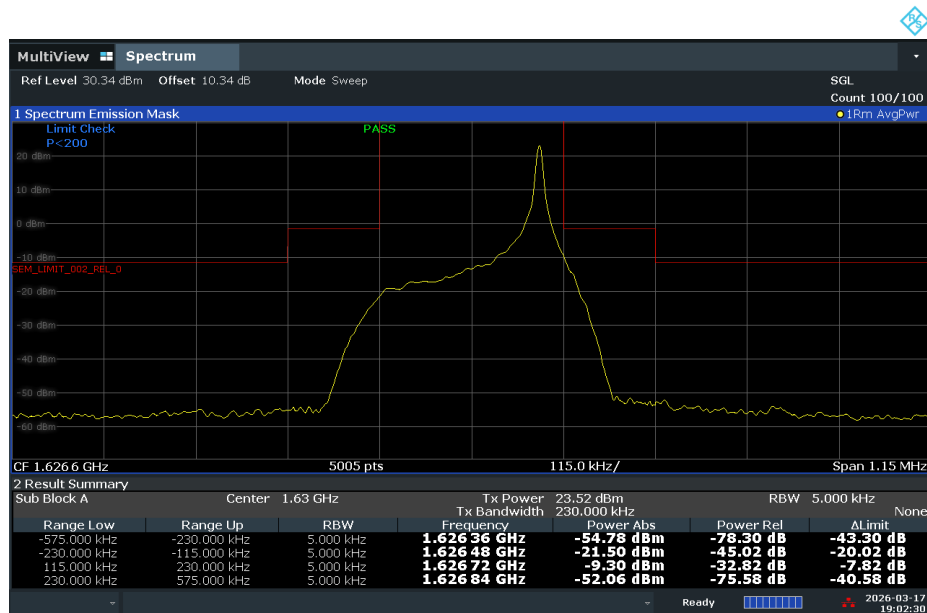
Plot 7-8. Low Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 84



07:01:31 PM 03/17/2026

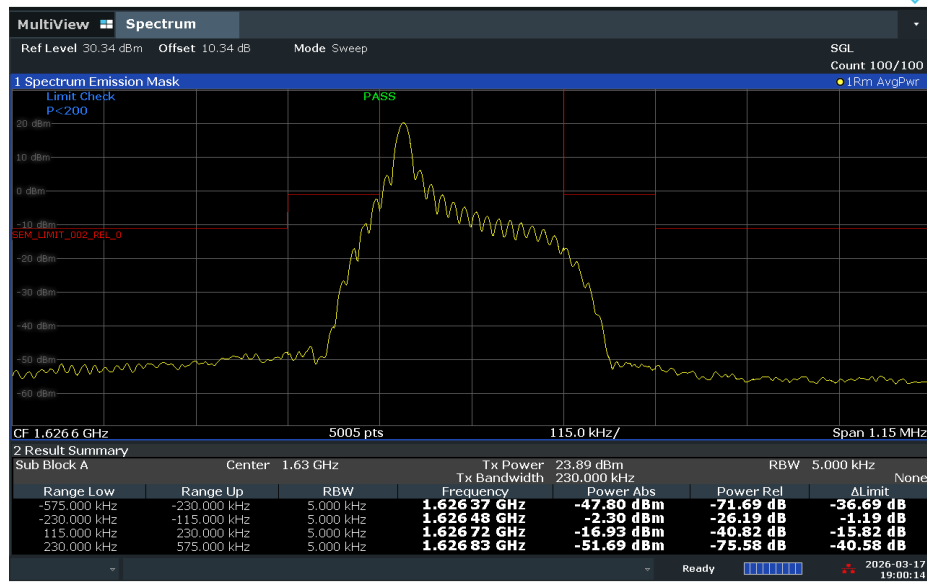
Plot 7-9. Low Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – QPSK



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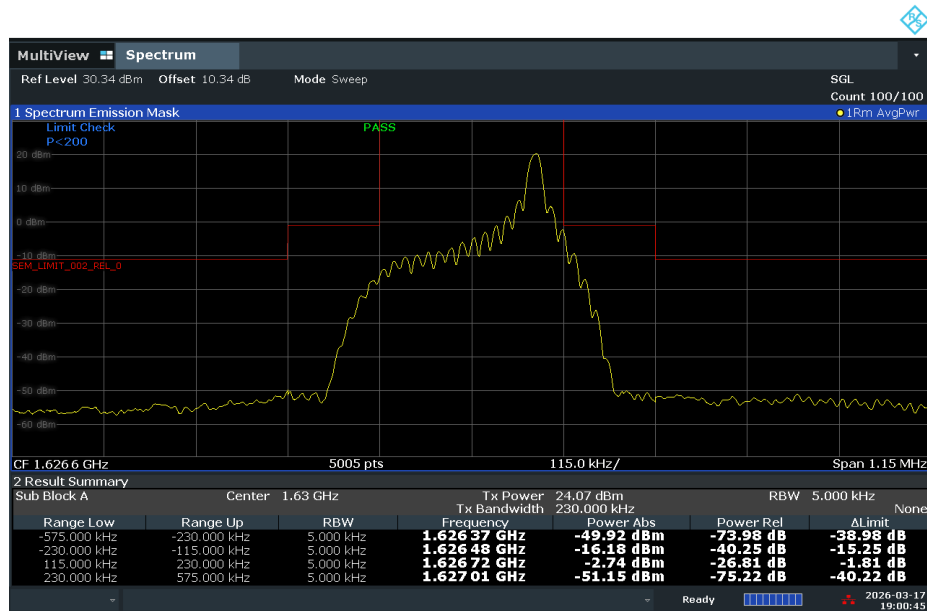
Plot 7-10. Low Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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07:00:15 PM 03/17/2026

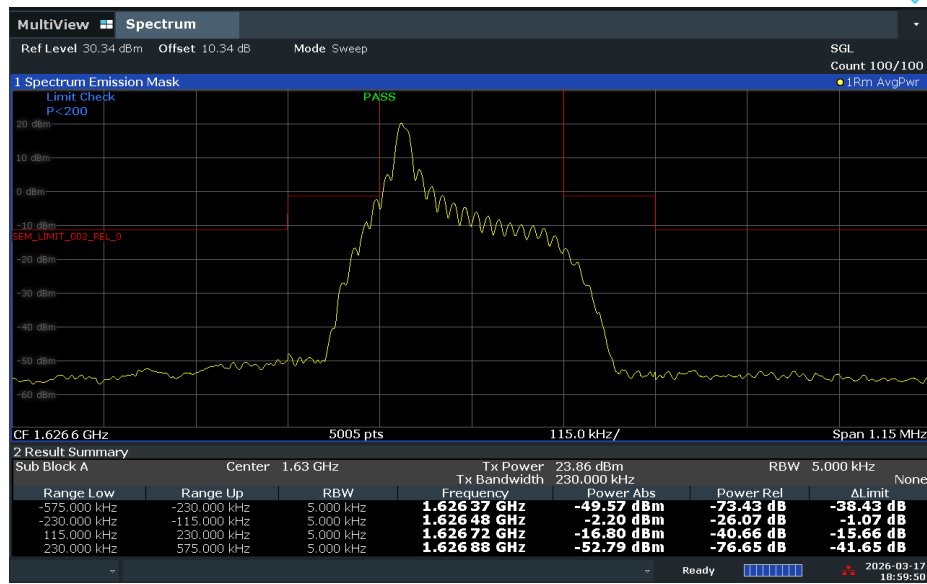
Plot 7-11. Low Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – BPSK



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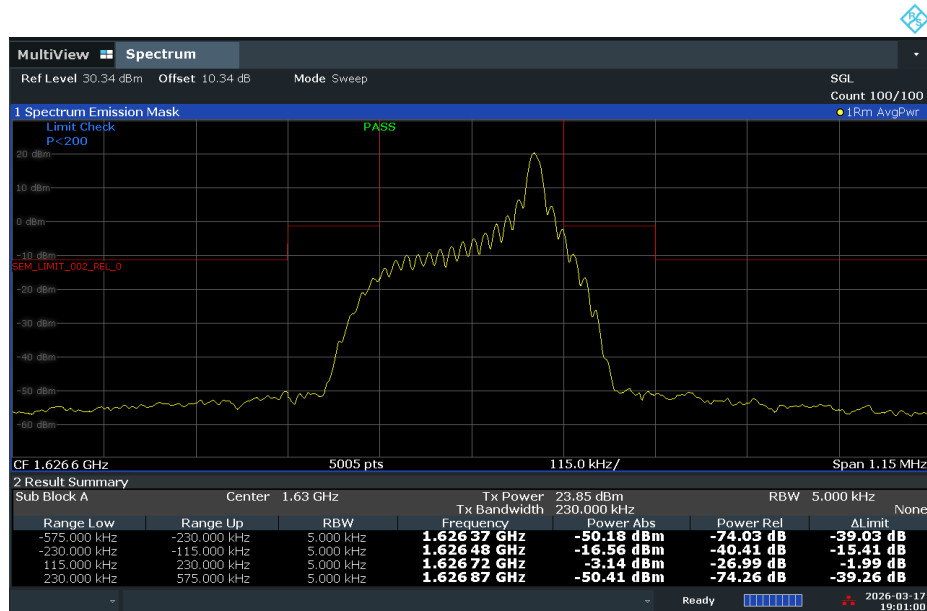
Plot 7-12. Low Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 84



06:59:50 PM 03/17/2026

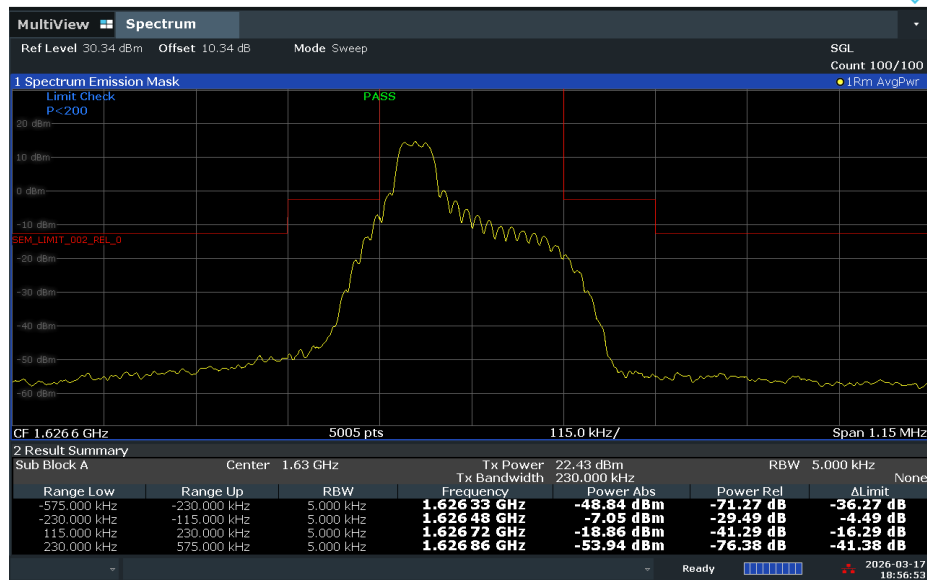
Plot 7-13. Low Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – QPSK



07:01:00 PM 03/17/2026

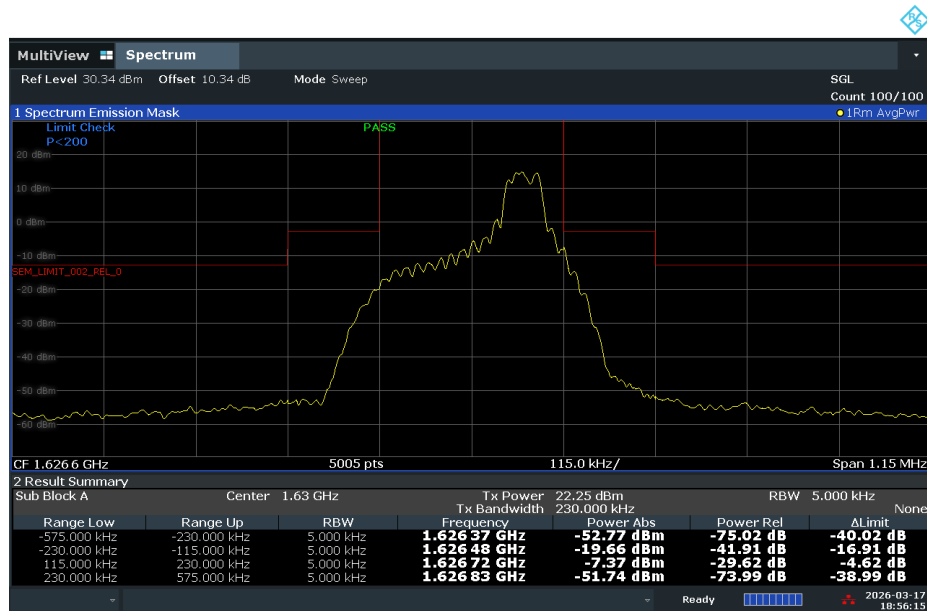
Plot 7-14. Low Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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06:56:54 PM 03/17/2026

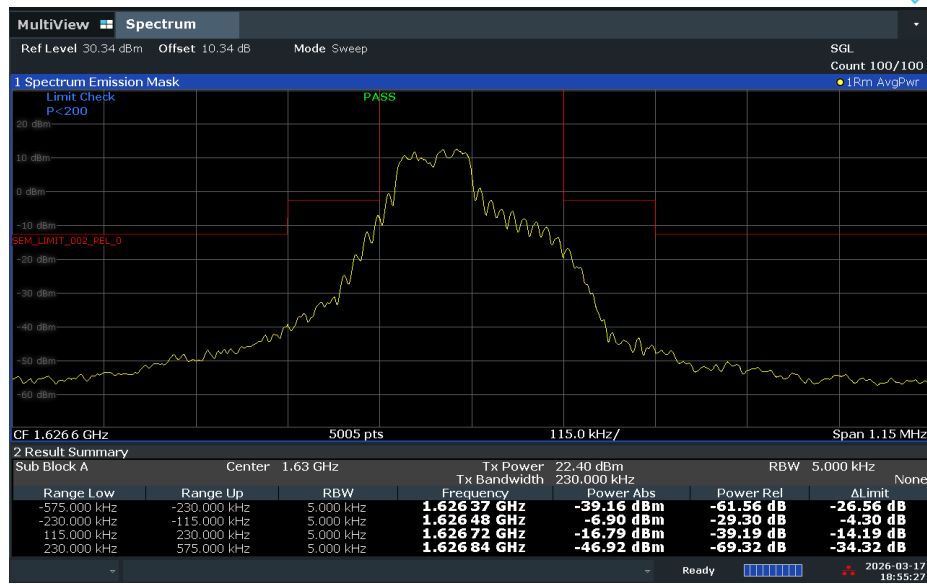
Plot 7-15. Low Channel Conducted Emission Mask – 15kHz SCS – 3SC0



06:56:16 PM 03/17/2026

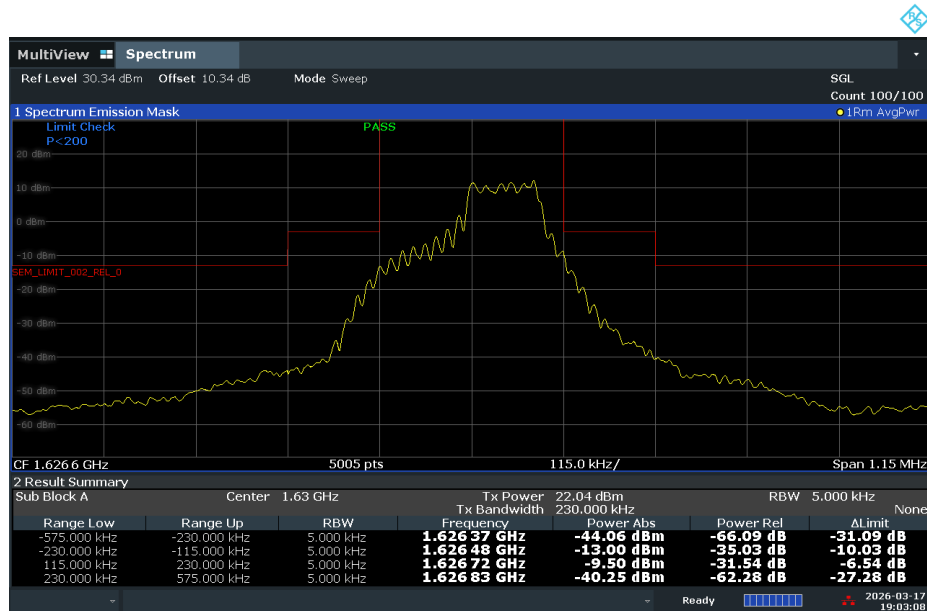
Plot 7-16. Low Channel Conducted Emission Mask – 15kHz SCS – 3SC9

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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06:55:28 PM 03/17/2026

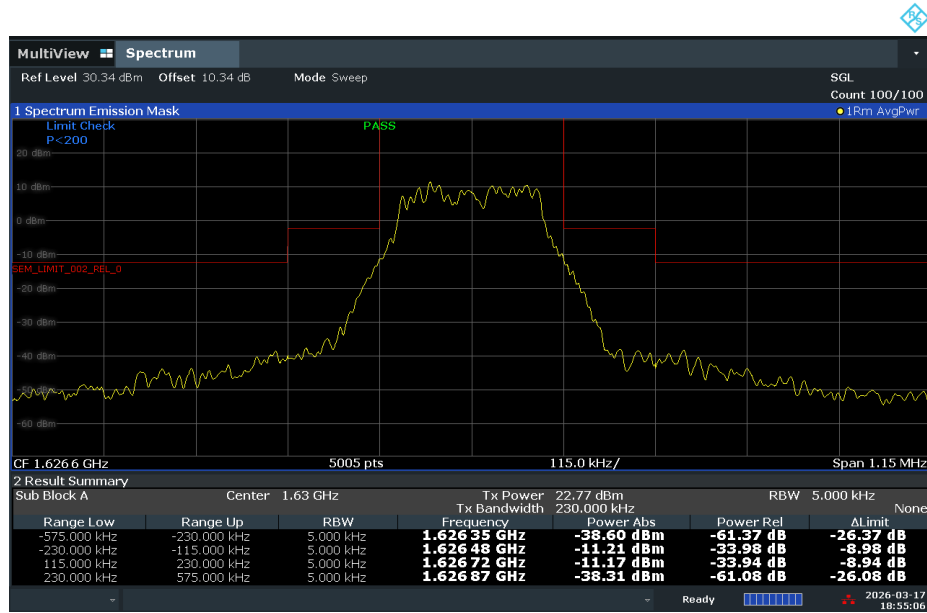
Plot 7-17. Low Channel Conducted Emission Mask – 15kHz SCS – 6SC0



07:03:08 PM 03/17/2026

Plot 7-18. Low Channel Conducted Emission Mask – 15kHz SCS – 6SC6

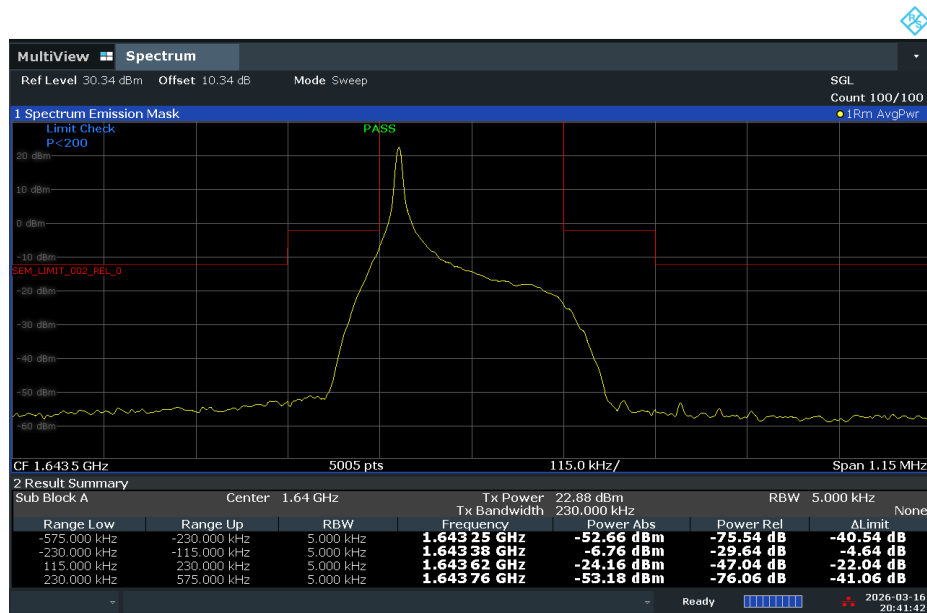
FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 27 of 84



06:55:06 PM 03/17/2026

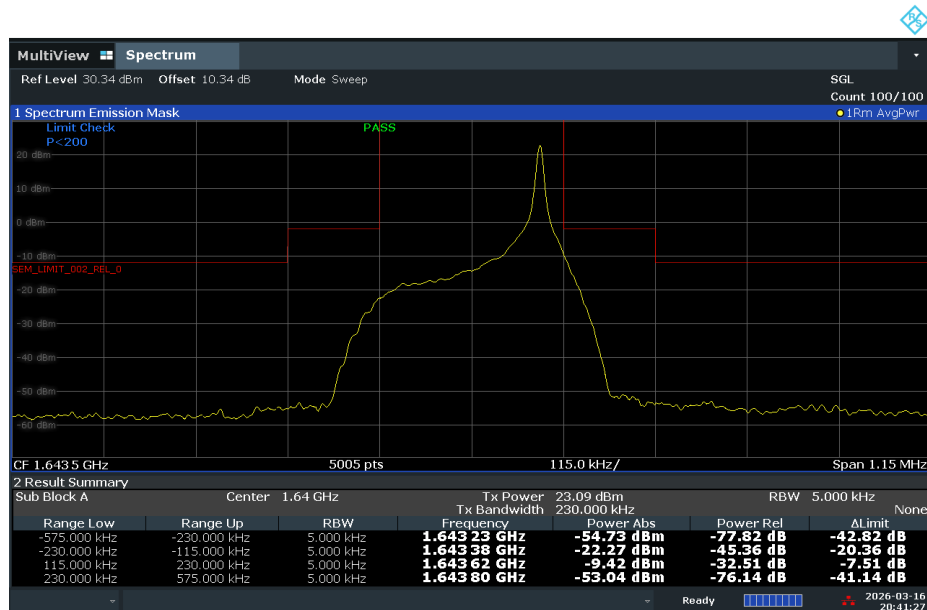
Plot 7-19. Low Channel Conducted Emission Mask – 15kHz SCS – 12SC0

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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08:41:43 PM 03/16/2026

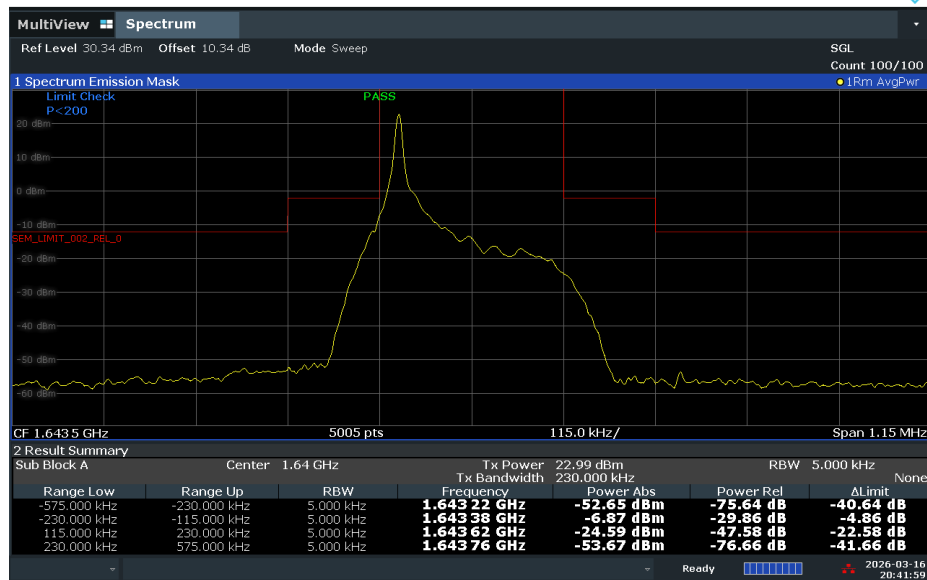
Plot 7-20. Mid Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – BPSK



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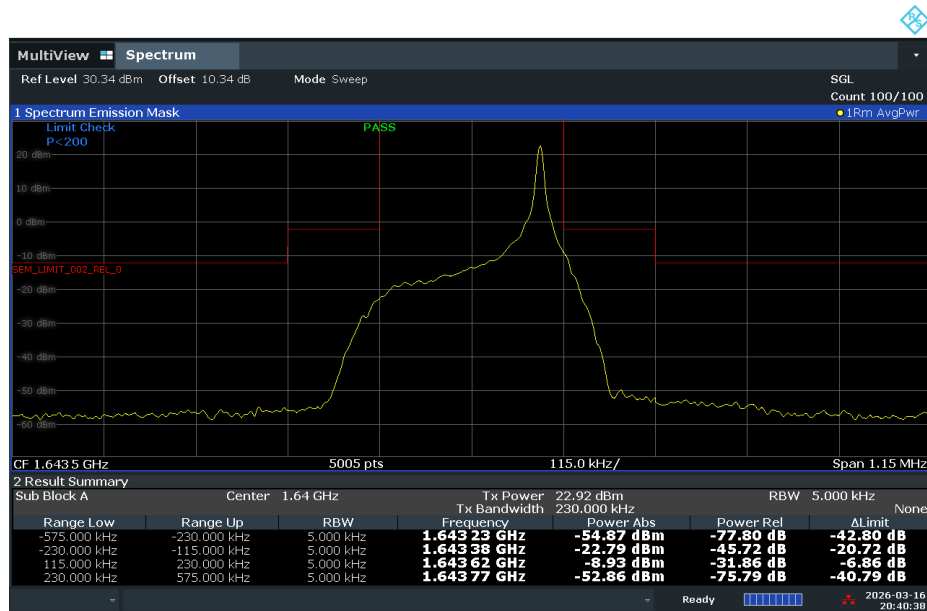
Plot 7-21. Mid Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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08:42:00 PM 03/16/2026

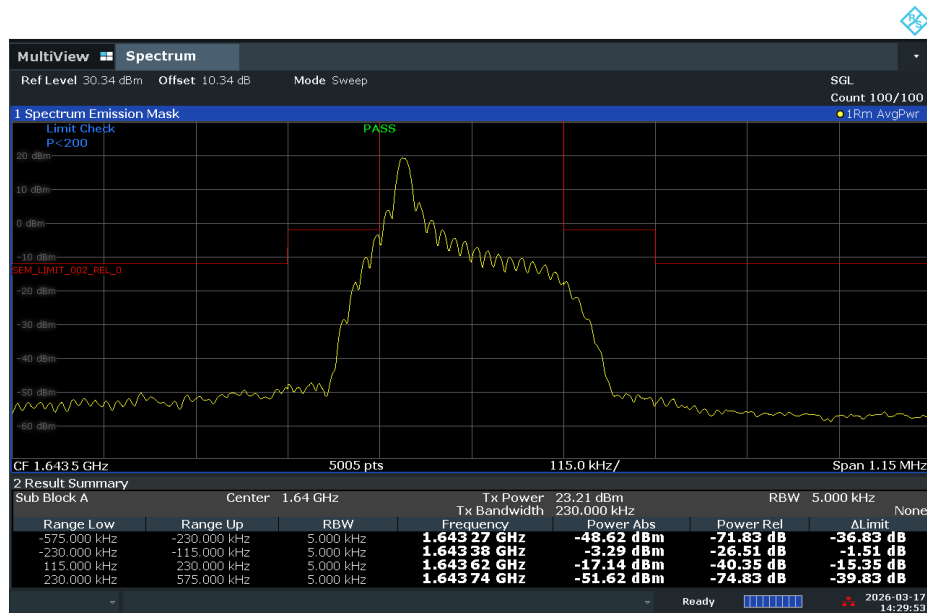
Plot 7-22. Mid Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – QPSK



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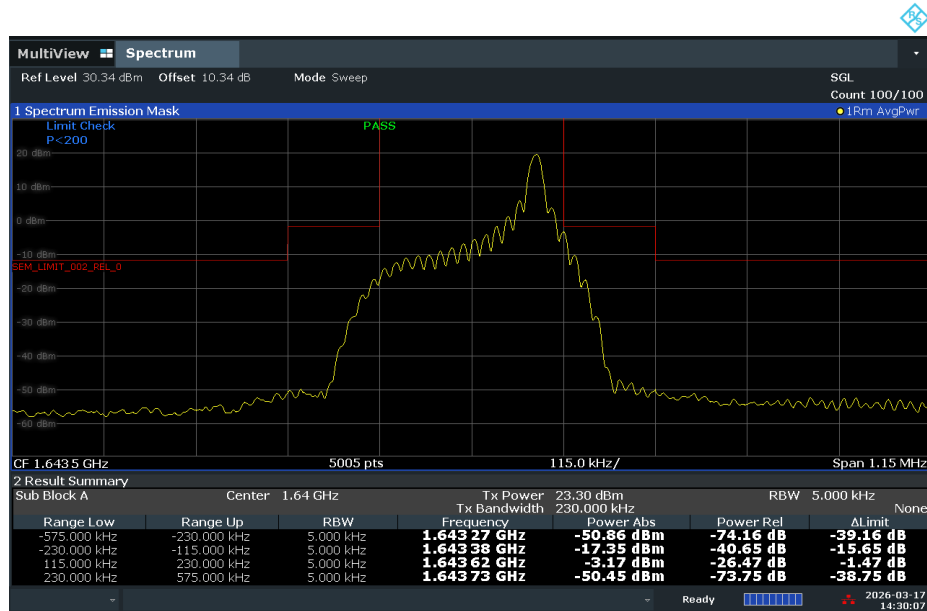
Plot 7-23. Mid Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 84



02:29:53 PM 03/17/2026

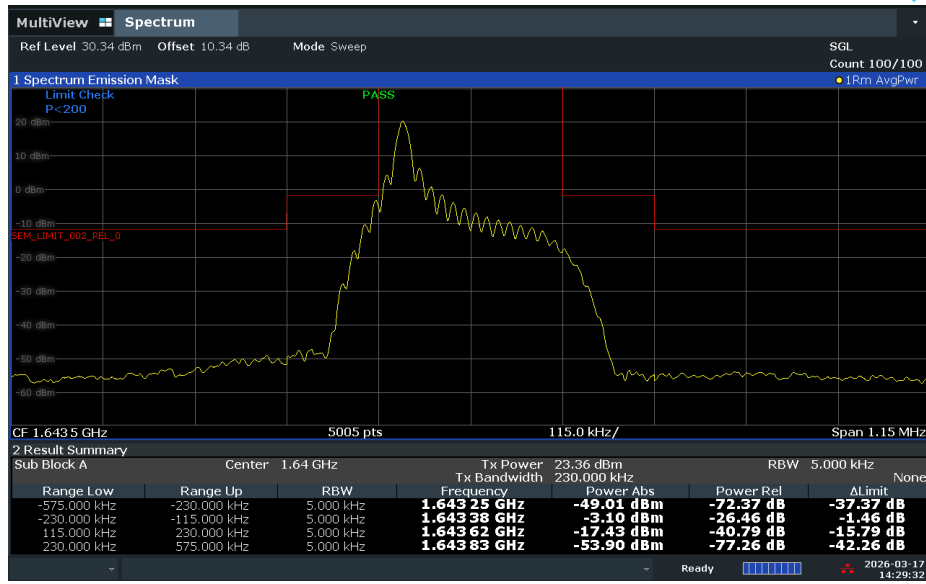
Plot 7-24. Mid Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – BPSK



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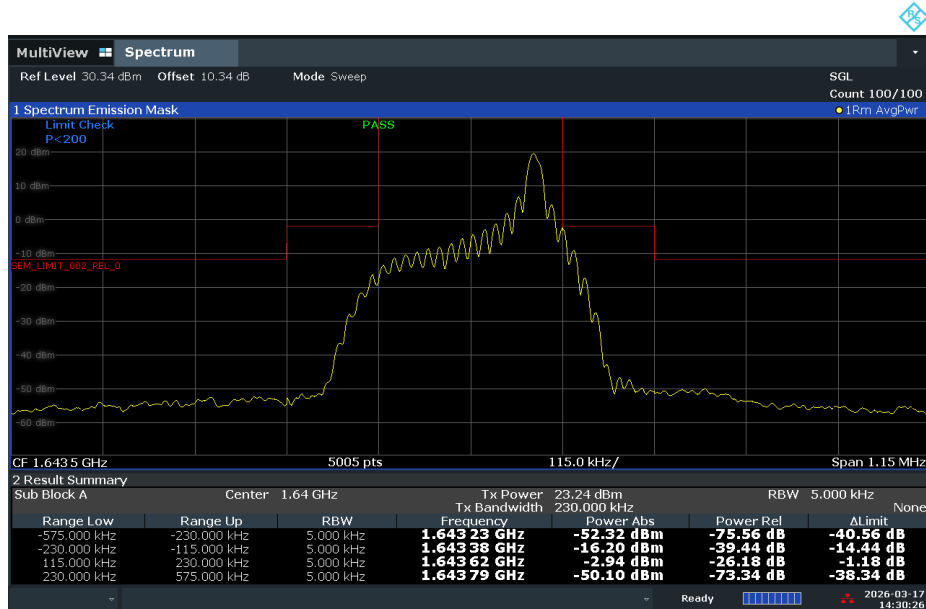
Plot 7-25. Mid Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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02:29:32 PM 03/17/2026

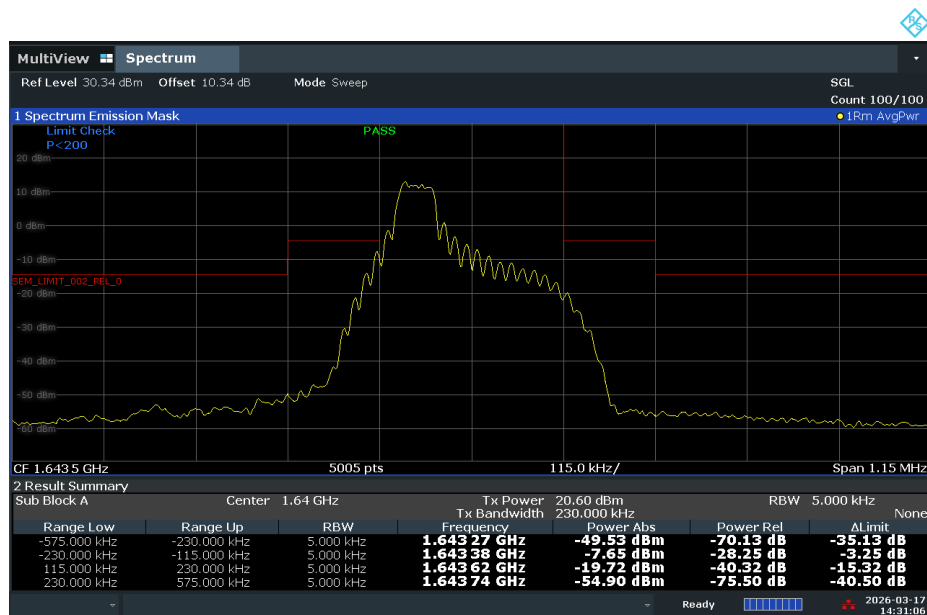
Plot 7-26. Mid Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – QPSK



02:30:26 PM 03/17/2026

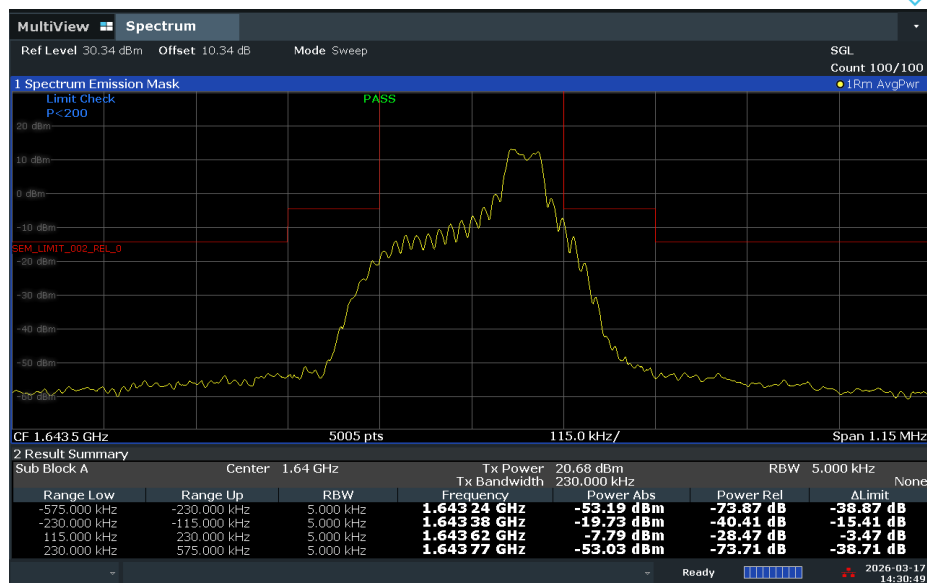
Plot 7-27. Mid Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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02:31:06 PM 03/17/2026

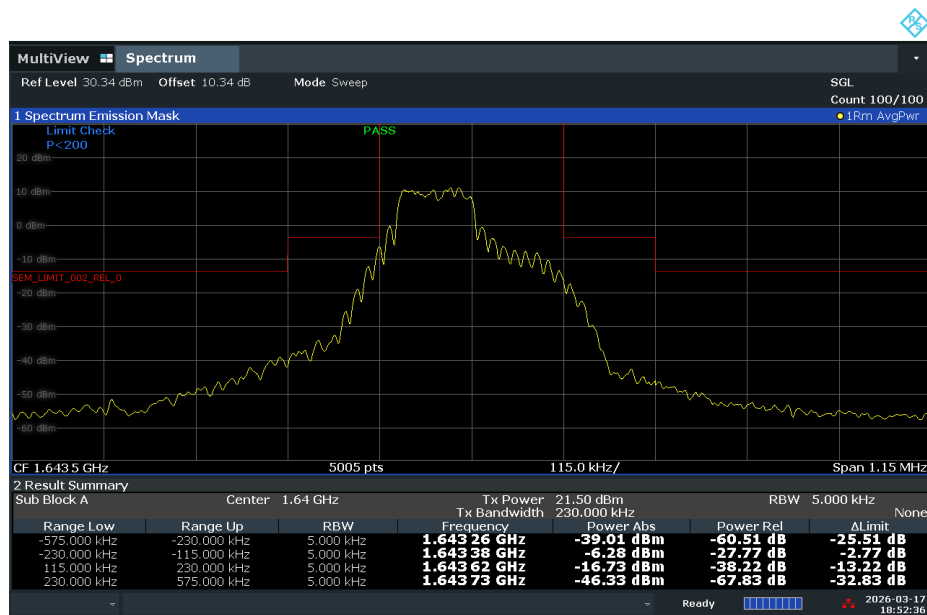
Plot 7-28. Mid Channel Conducted Emission Mask – 15kHz SCS – 3SC0



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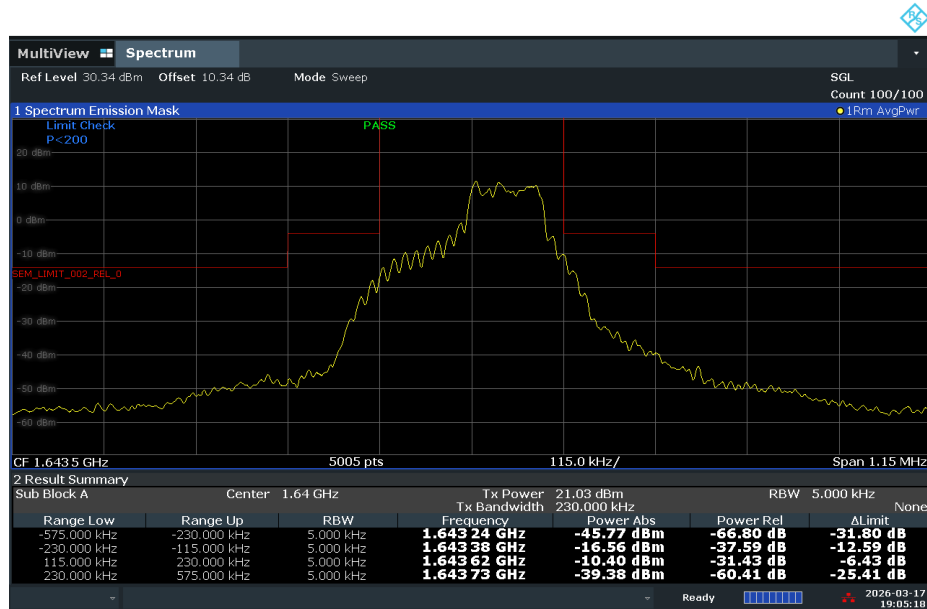
Plot 7-29. Mid Channel Conducted Emission Mask – 15kHz SCS – 3SC9

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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06:52:36 PM 03/17/2026

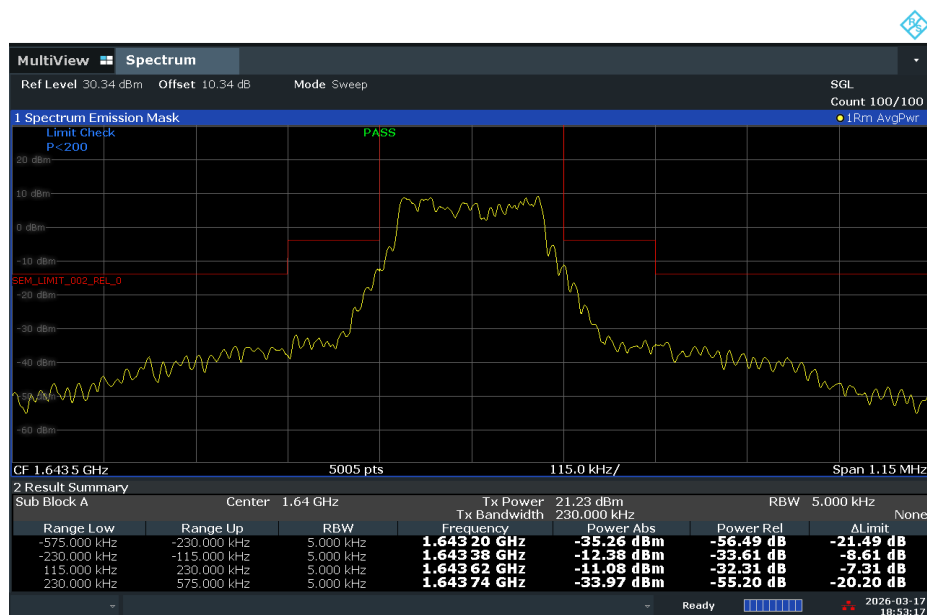
Plot 7-30. Mid Channel Conducted Emission Mask – 15kHz SCS – 6SC0



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Plot 7-31. Mid Channel Conducted Emission Mask – 15kHz SCS – 6SC6

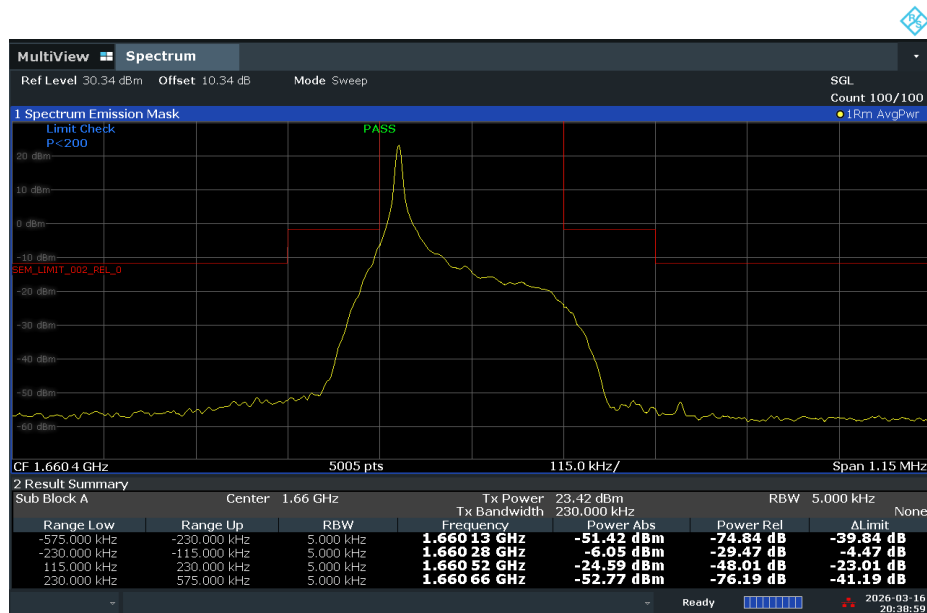
FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 34 of 84



06:53:18 PM 03/17/2026

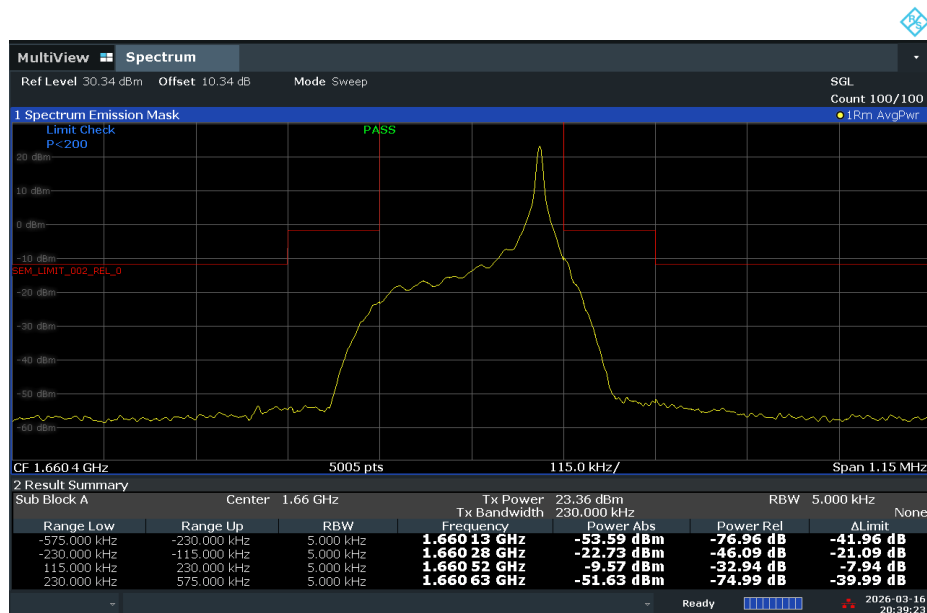
Plot 7-32. Mid Channel Conducted Emission Mask – 15kHz SCS – 12SC0

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 35 of 84



08:39:00 PM 03/16/2026

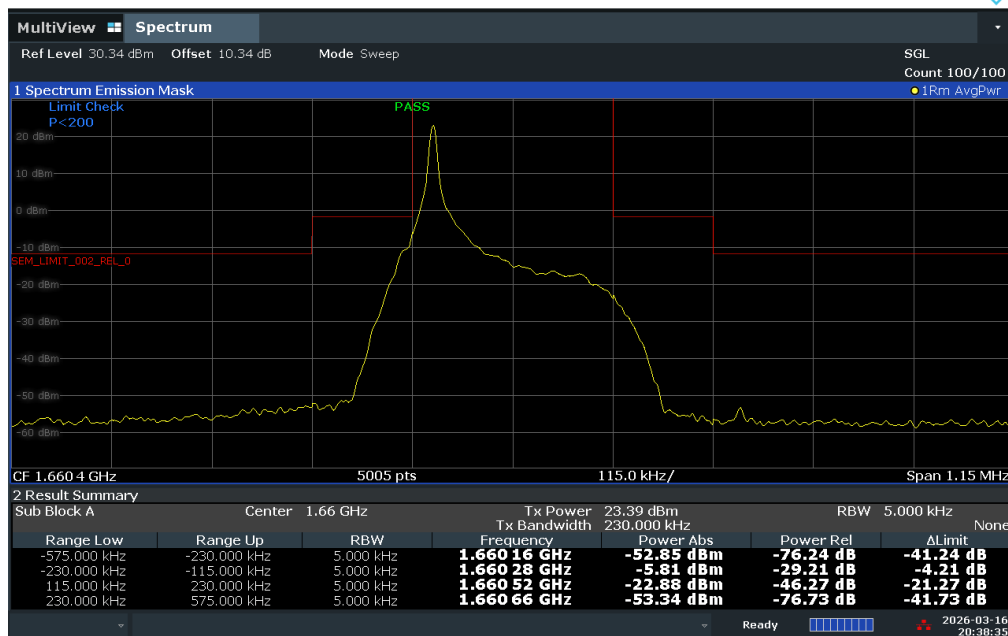
Plot 7-33. High Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – BPSK



08:39:23 PM 03/16/2026

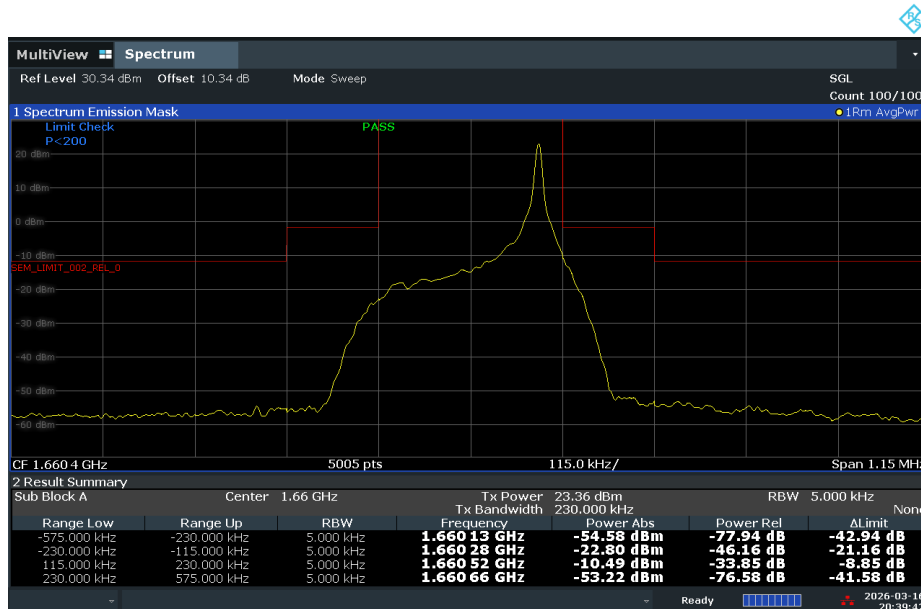
Plot 7-34. High Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 36 of 84



08:38:35 PM 03/16/2026

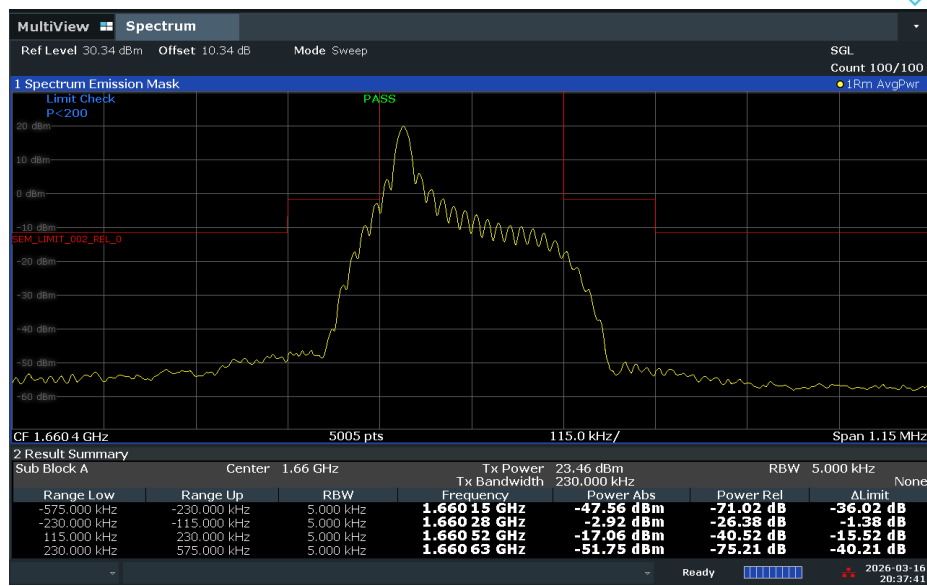
Plot 7-35. High Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – QPSK



08:39:43 PM 03/16/2026

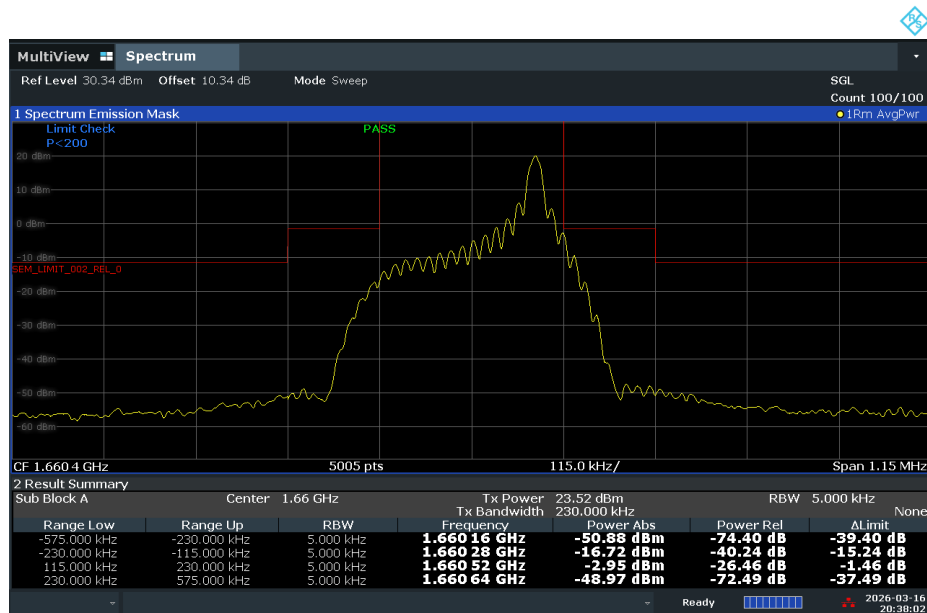
Plot 7-36. High Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 37 of 84



08:37:42 PM 03/16/2026

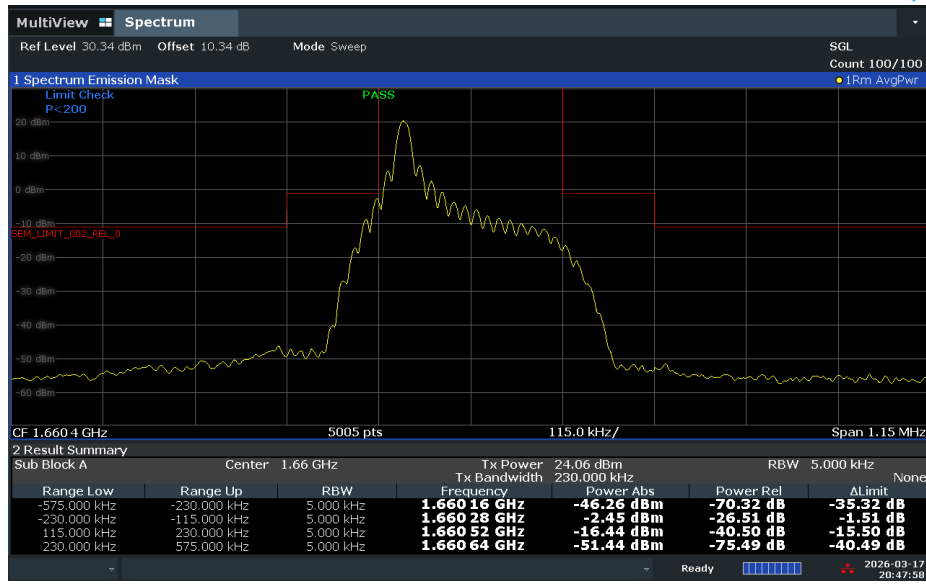
Plot 7-37. High Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – BPSK



08:38:02 PM 03/16/2026

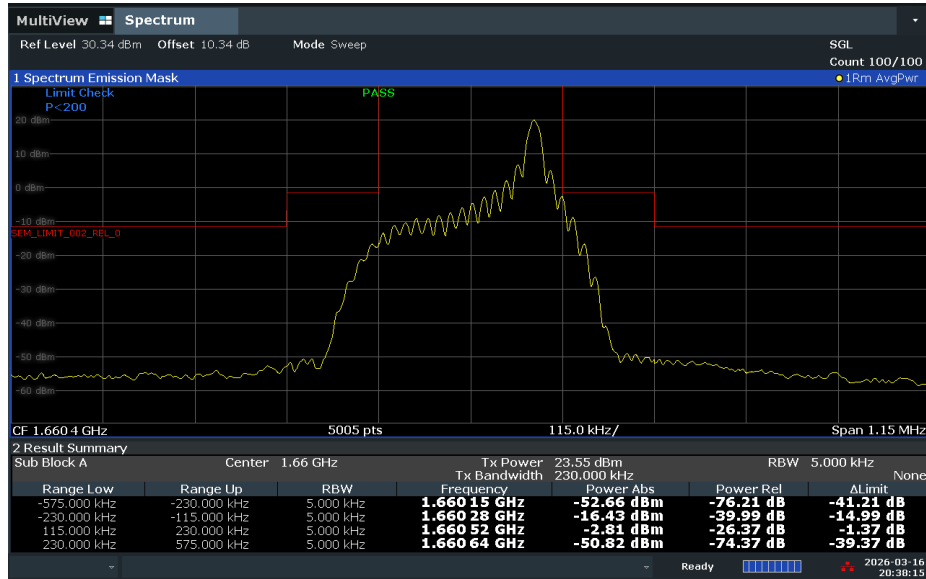
Plot 7-38. High Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 38 of 84



08:47:59 PM 03/17/2026

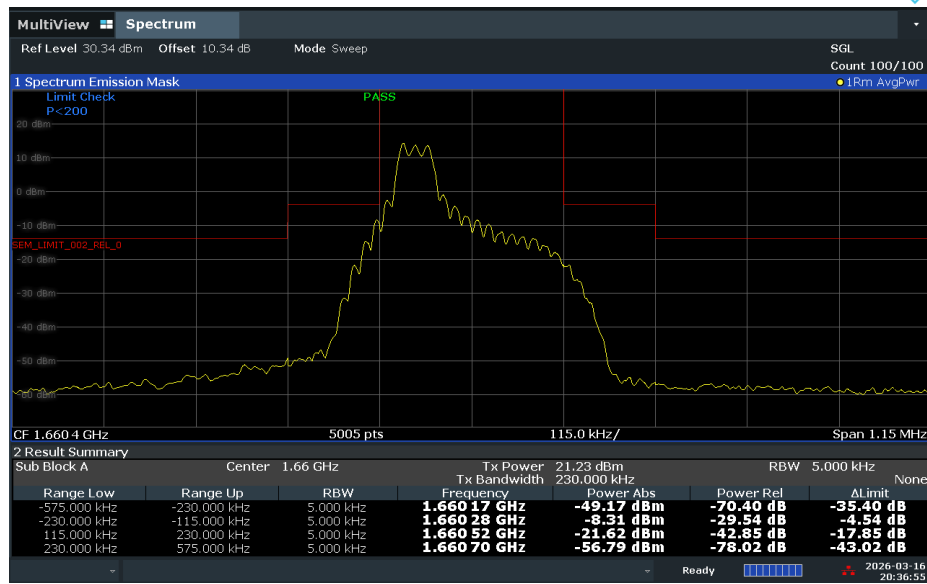
Plot 7-39. High Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – QPSK



08:38:16 PM 03/16/2026

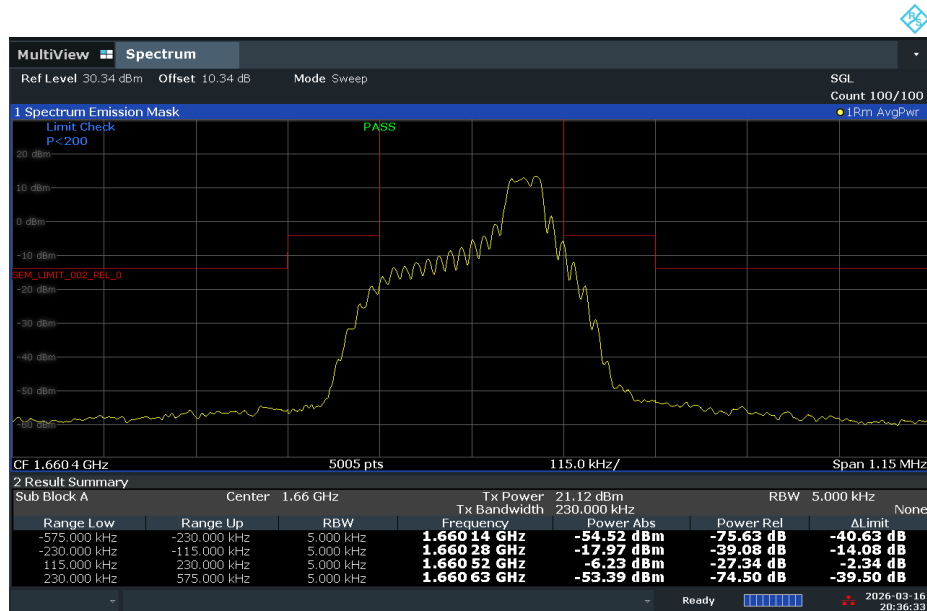
Plot 7-40. High Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 39 of 84



08:36:56 PM 03/16/2026

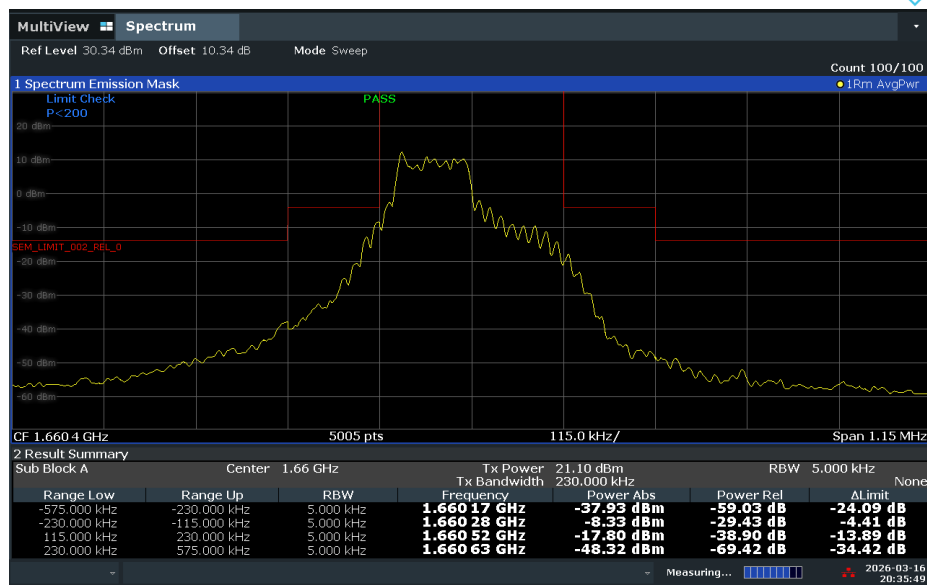
Plot 7-41. High Channel Conducted Emission Mask – 15kHz SCS – 3SC0



08:36:34 PM 03/16/2026

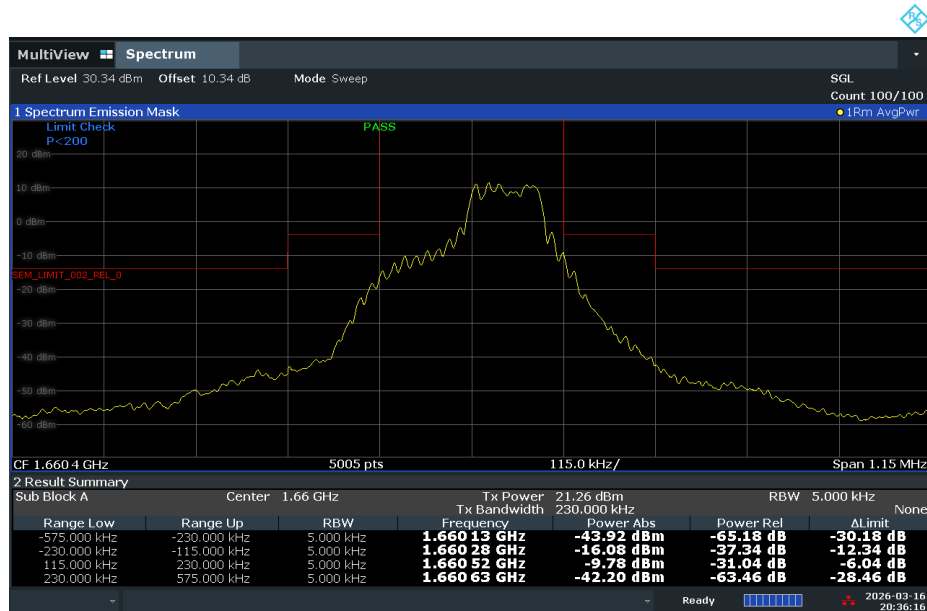
Plot 7-42. High Channel Conducted Emission Mask – 15kHz SCS – 3SC9

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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08:35:49 PM 03/16/2026

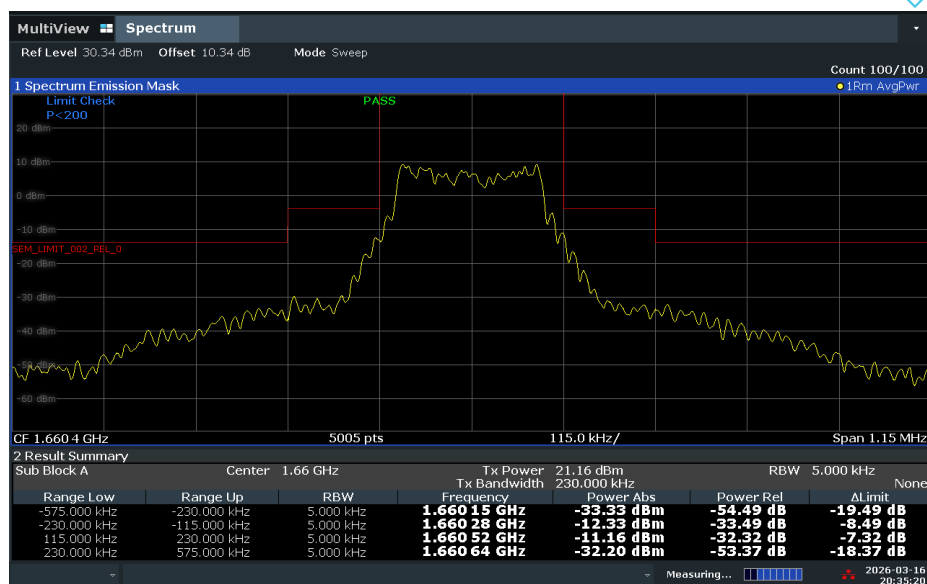
Plot 7-43. High Channel Conducted Emission Mask – 15kHz SCS – 6SC0



08:36:16 PM 03/16/2026

Plot 7-44. High Channel Conducted Emission Mask – 15kHz SCS – 6SC6

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 41 of 84



08:35:22 PM 03/16/2026

Plot 7-45. High Channel Conducted Emission Mask – 15kHz SCS – 12SC0

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 42 of 84

7.5 Conducted Spurious Emission

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.

Per FCC Part 25.202(f):

Emission limitations.

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts

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. RBW = 100kHz
3. VBW = 300kHz
4. Detector = RMS
5. Number of sweep points $\geq 2 \times \text{Span/RBW}$
6. Trace mode = max hold
7. Sweep time = auto couple
8. The trace was allowed to stabilize

Test Setup

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

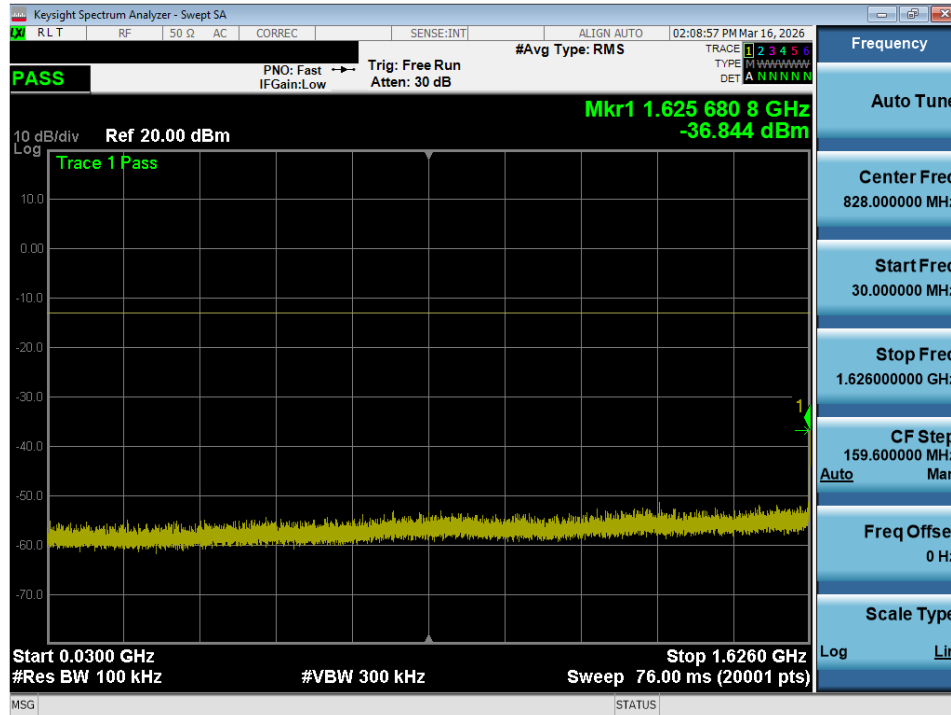


Figure 7-4. Test Instrument & Measurement Setup

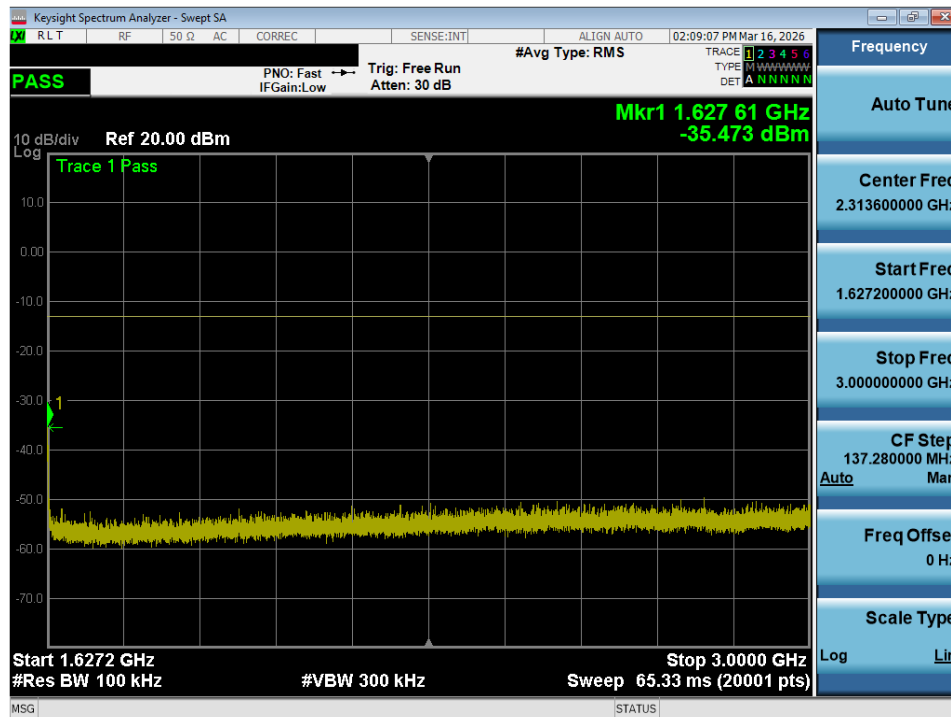
Test Notes

none

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 43 of 84

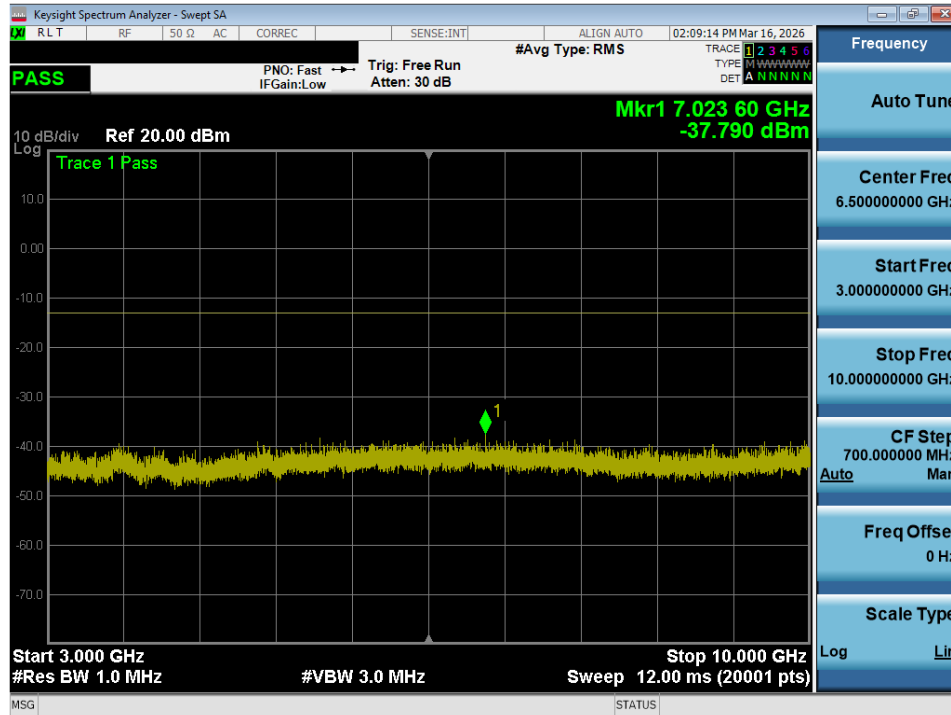


Plot 7-46. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – QPSK

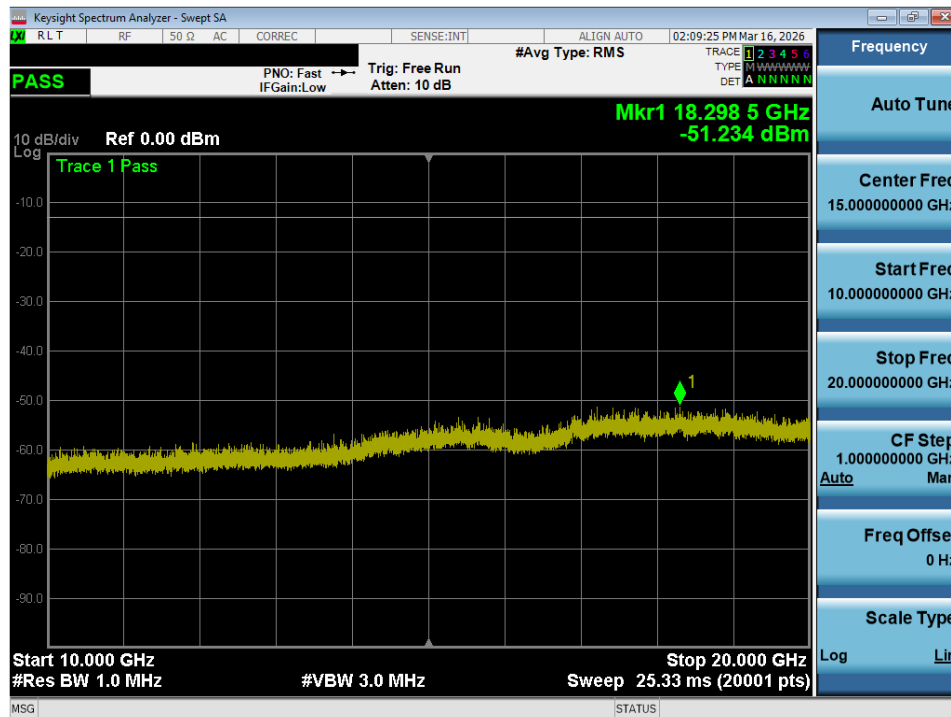


Plot 7-47. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 - QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 44 of 84

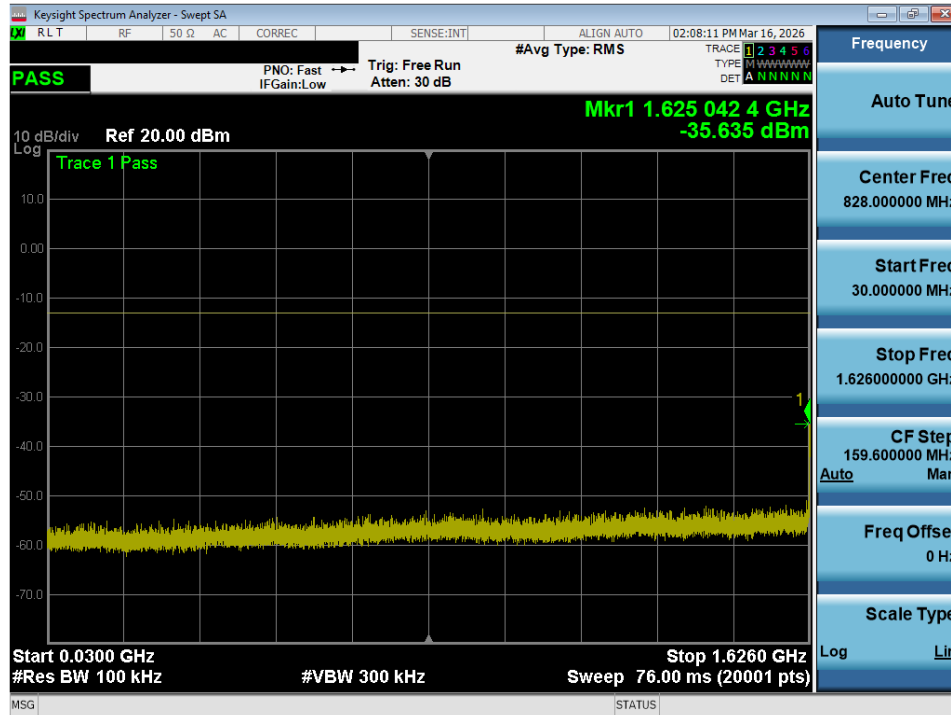


Plot 7-48. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – QPSK

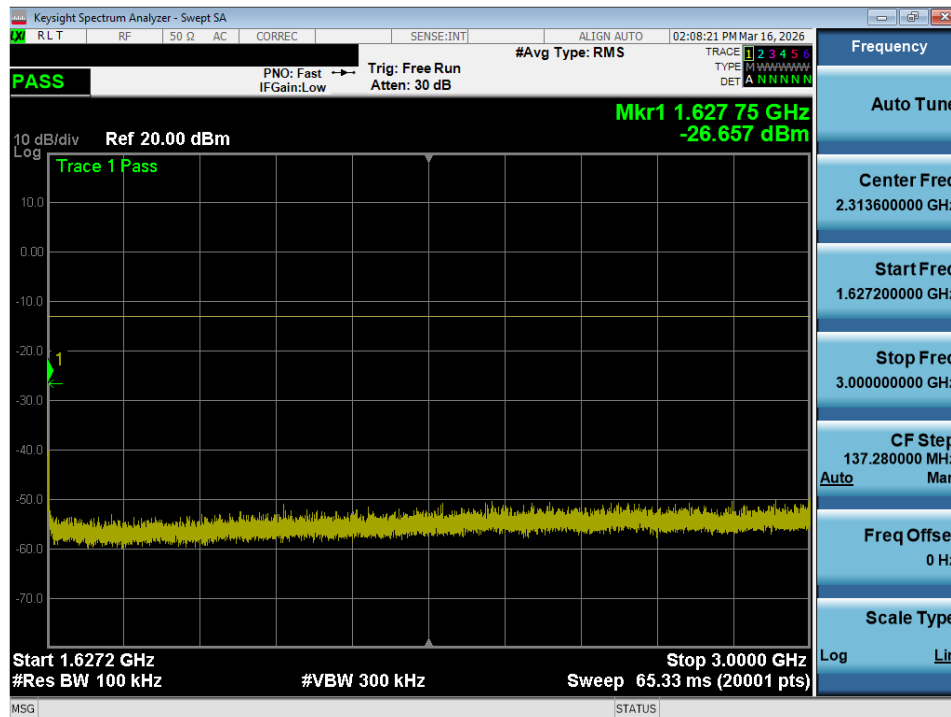


Plot 7-49. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 45 of 84

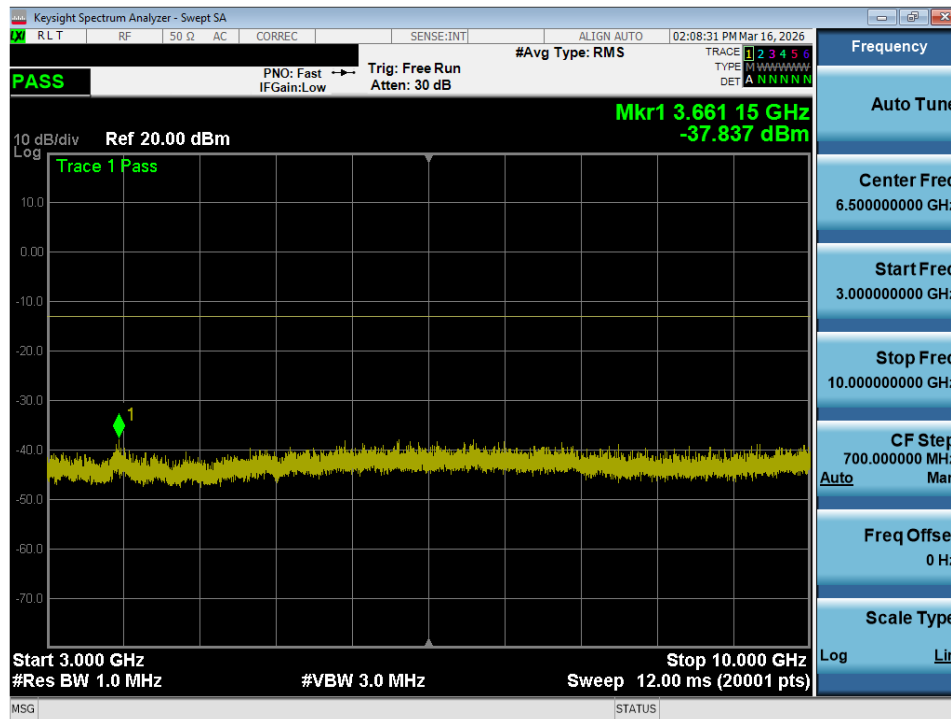


Plot 7-50. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – BPSK

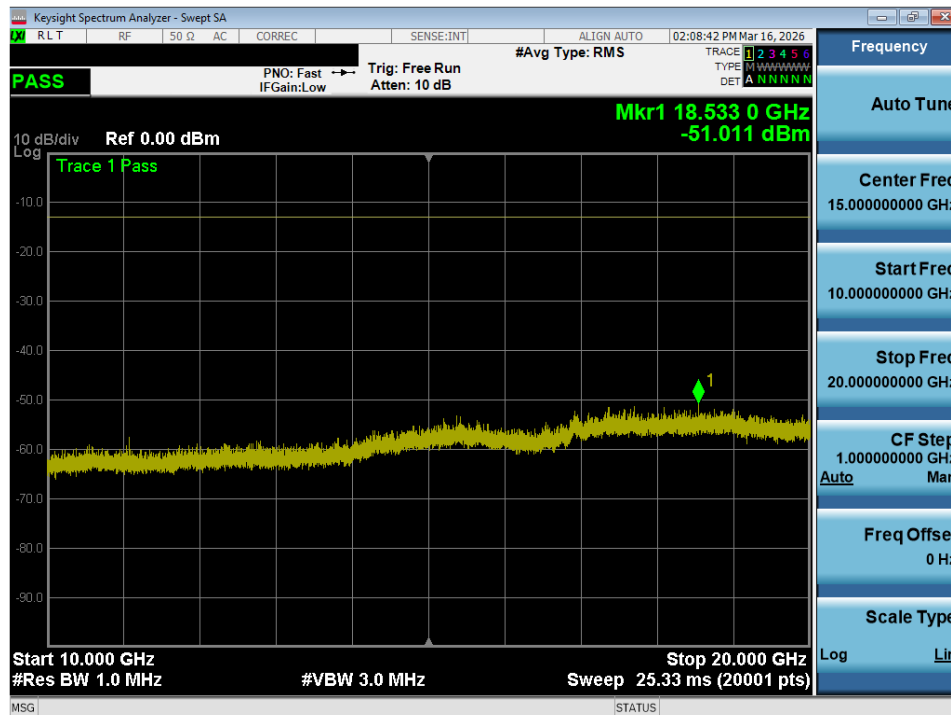


Plot 7-51. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 - BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 46 of 84

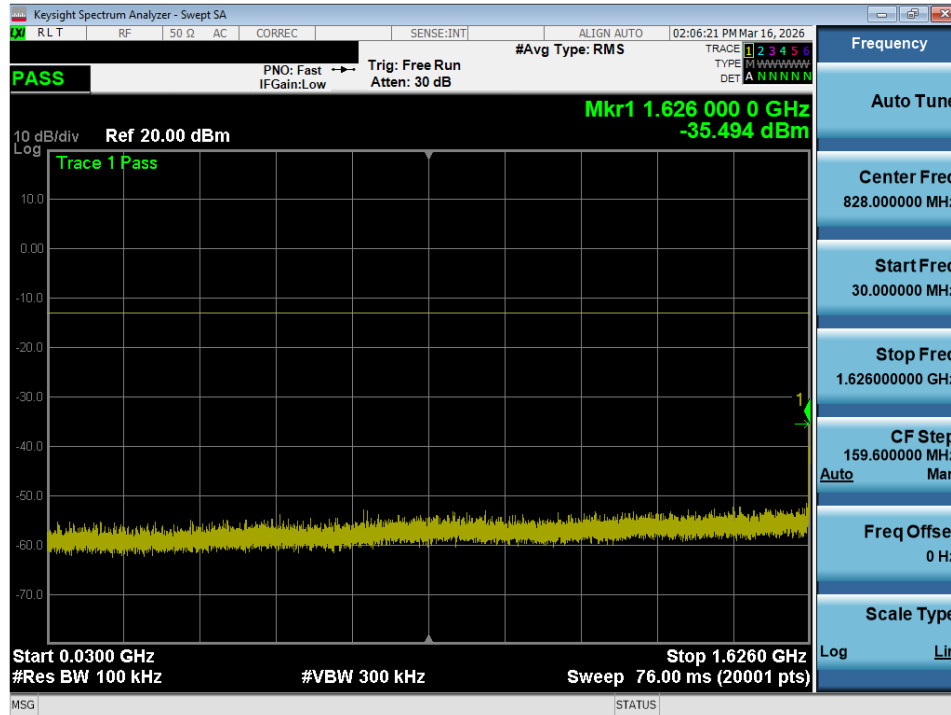


Plot 7-52. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – BPSK

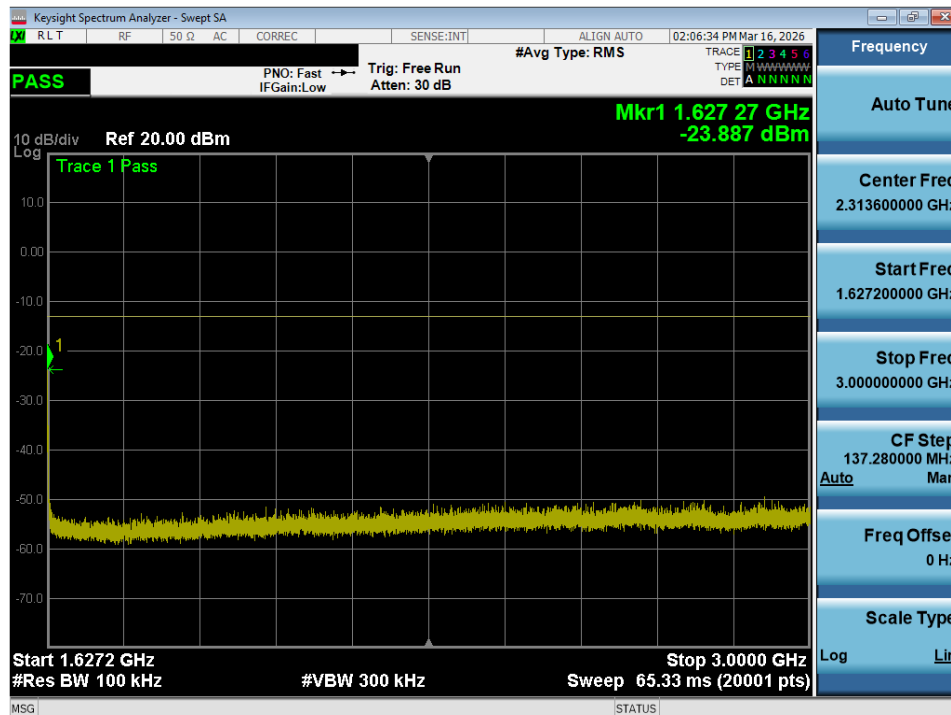


Plot 7-53. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 - BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 47 of 84

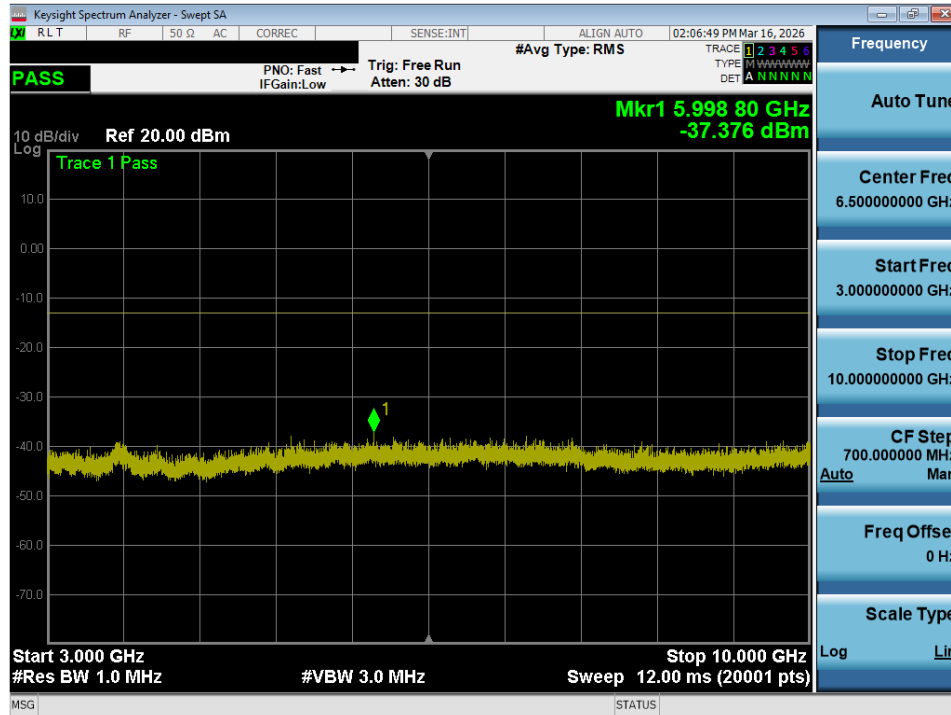


Plot 7-54. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – QPSK

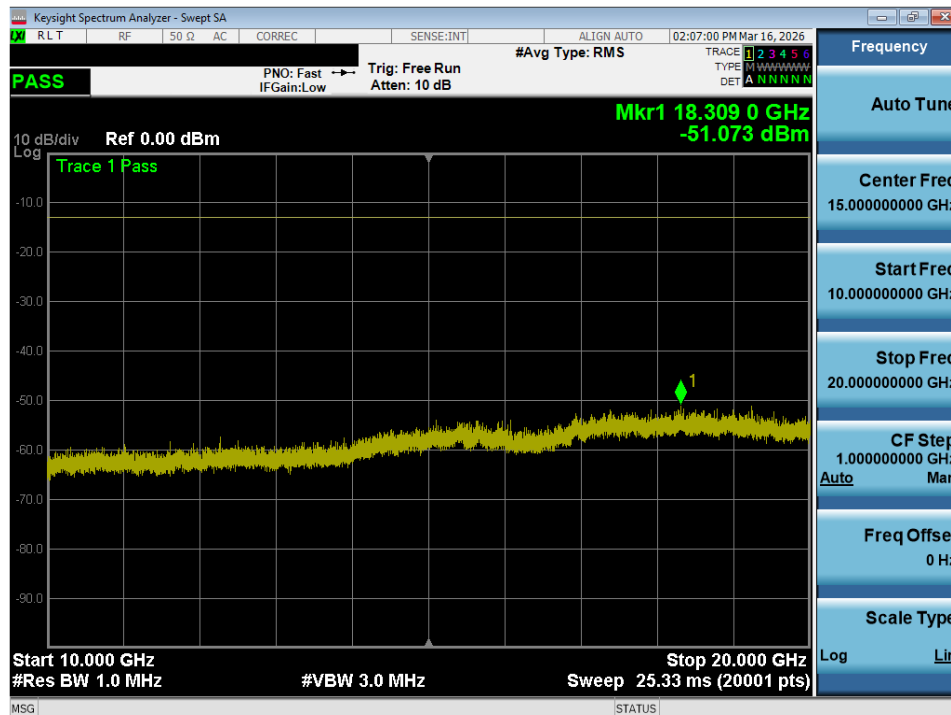


Plot 7-55. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 48 of 84

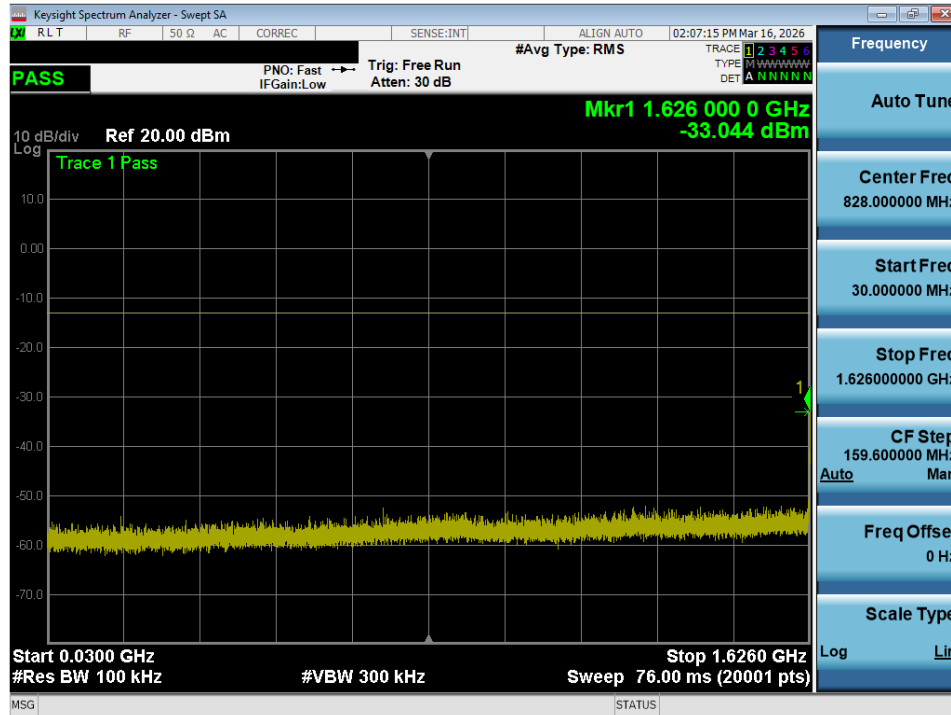


Plot 7-56. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – QPSK

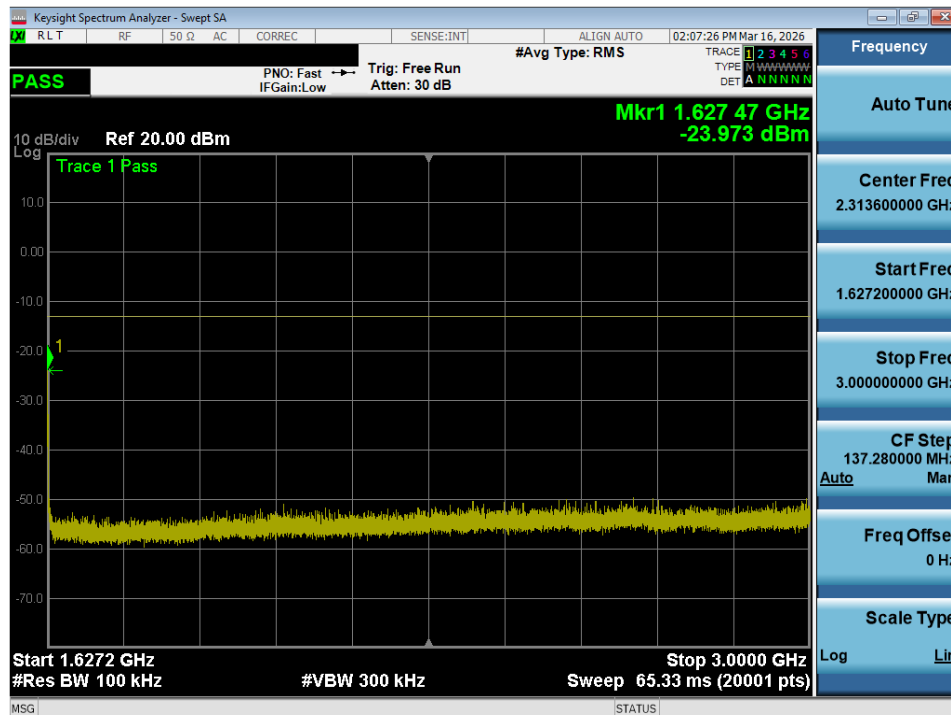


Plot 7-57. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 49 of 84

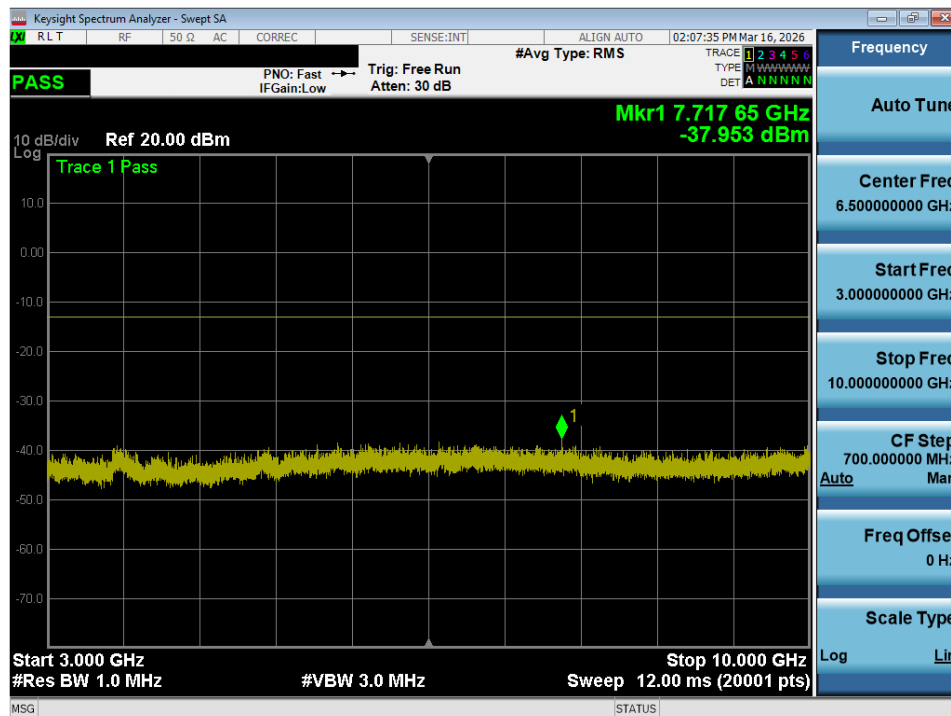


Plot 7-58. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – BPSK

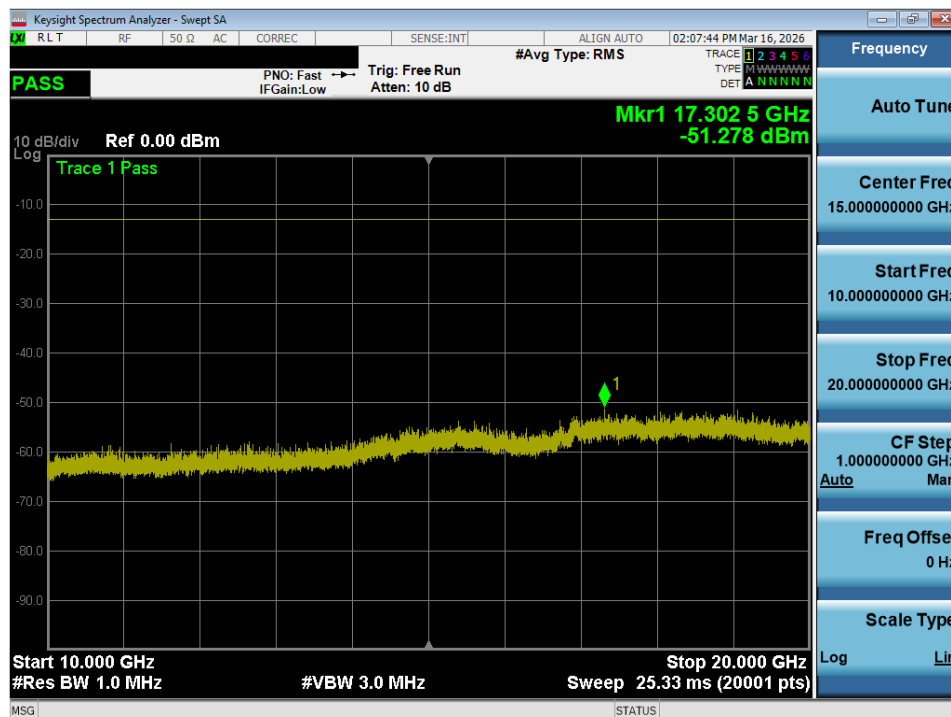


Plot 7-59. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 50 of 84

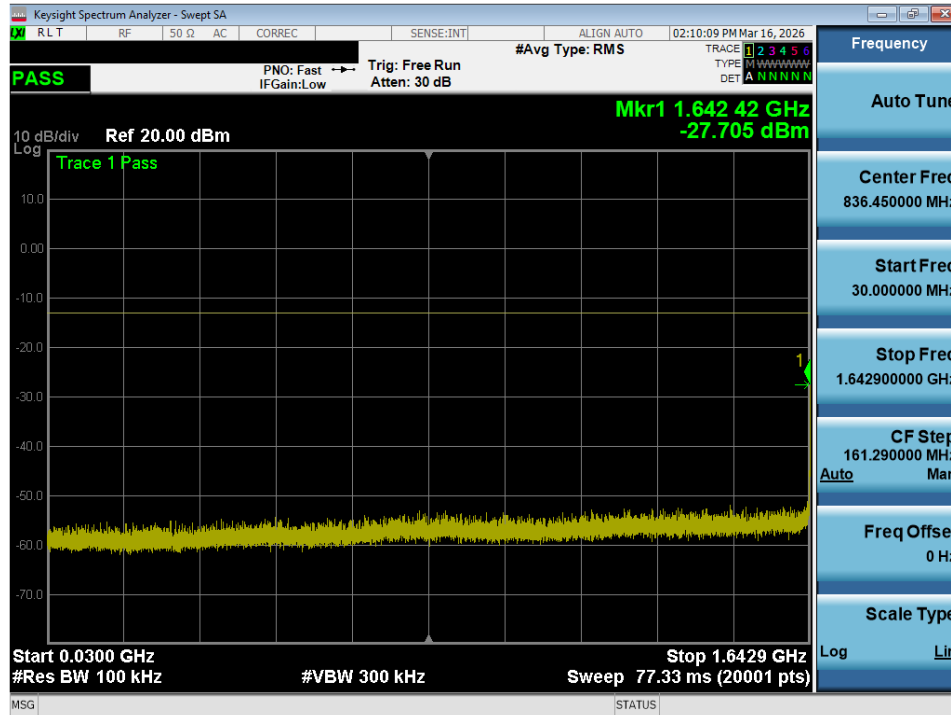


Plot 7-60. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – BPSK

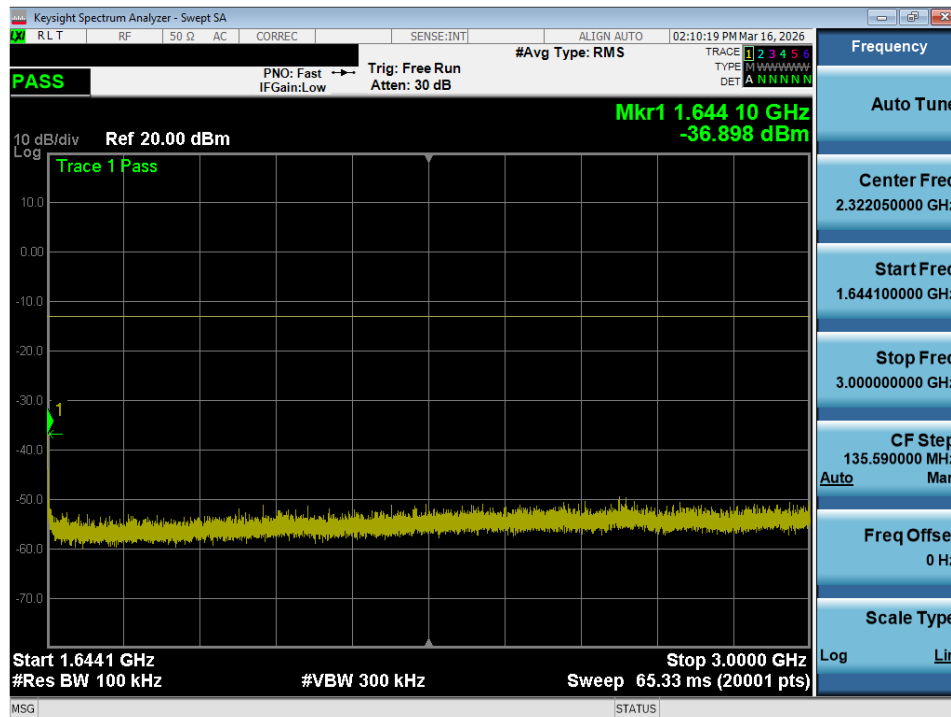


Plot 7-61. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 51 of 84

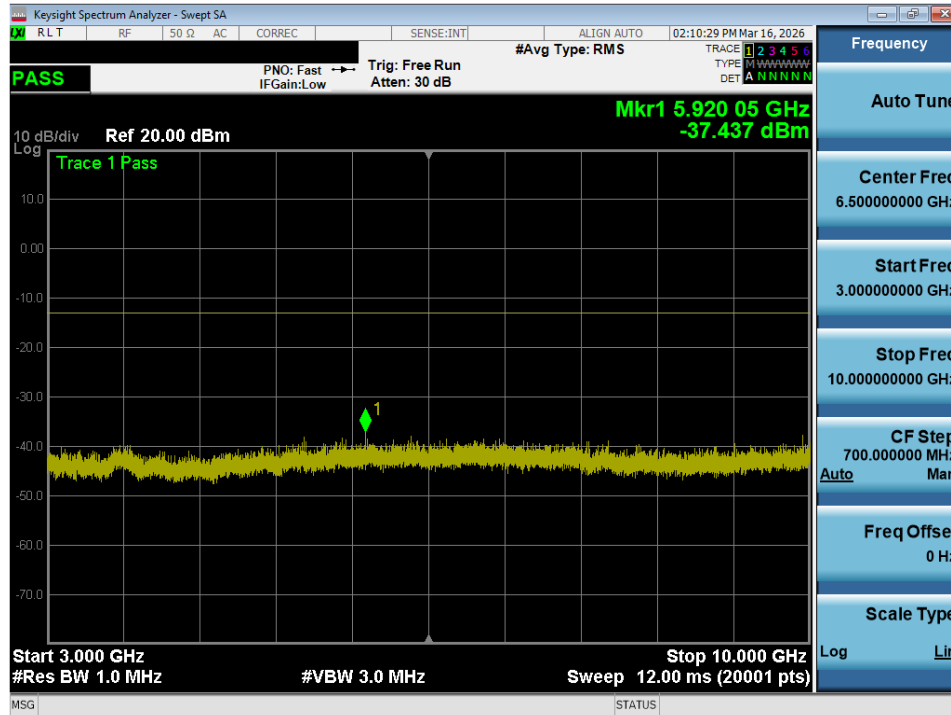


Plot 7-62. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – QPSK

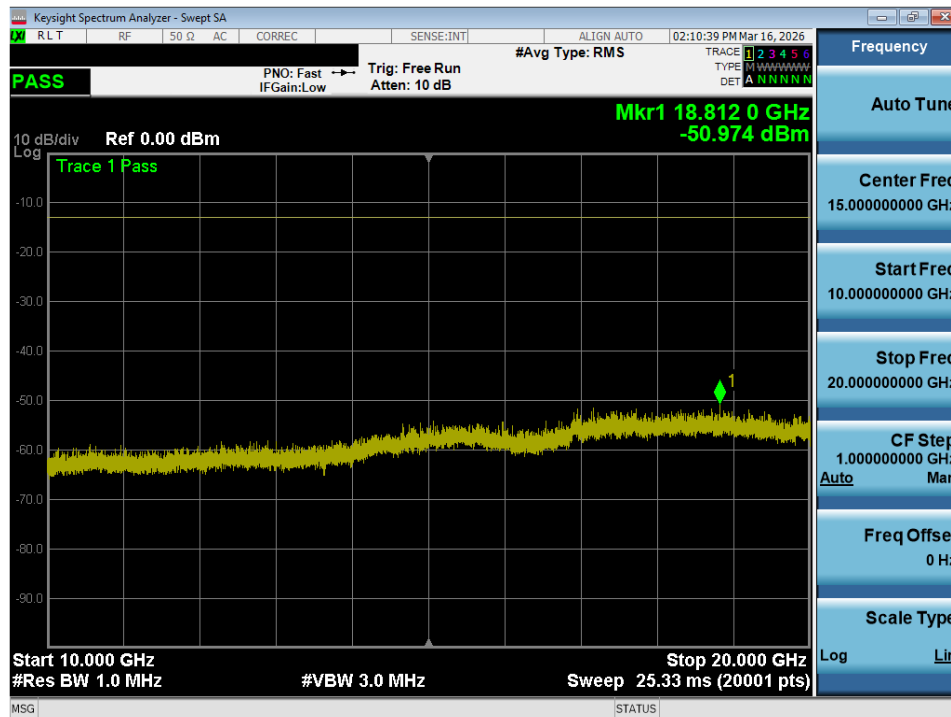


Plot 7-63. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 52 of 84

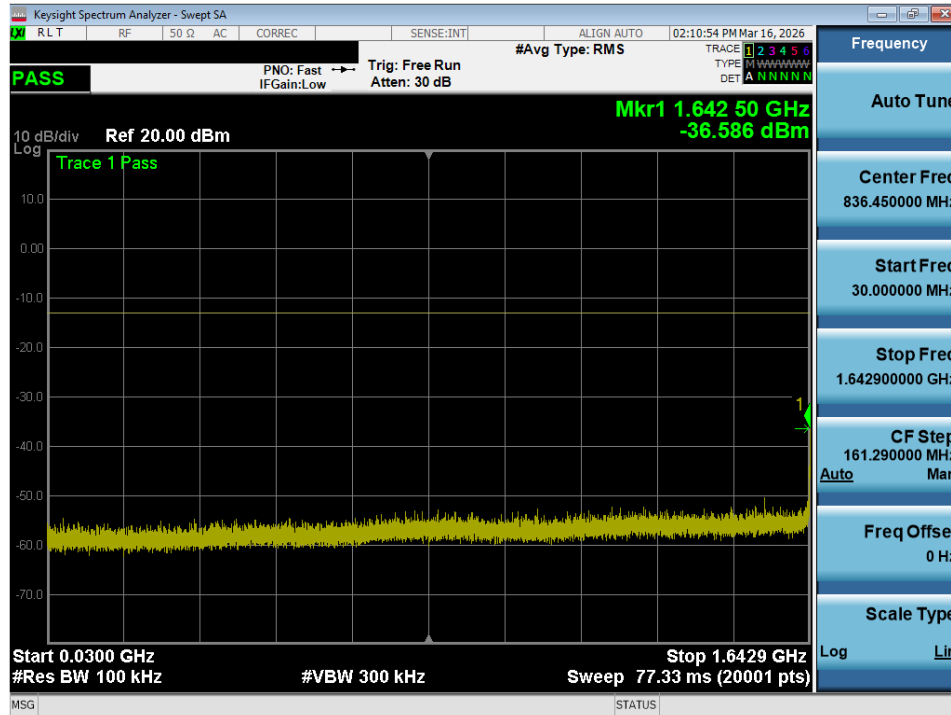


Plot 7-64. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – QPSK

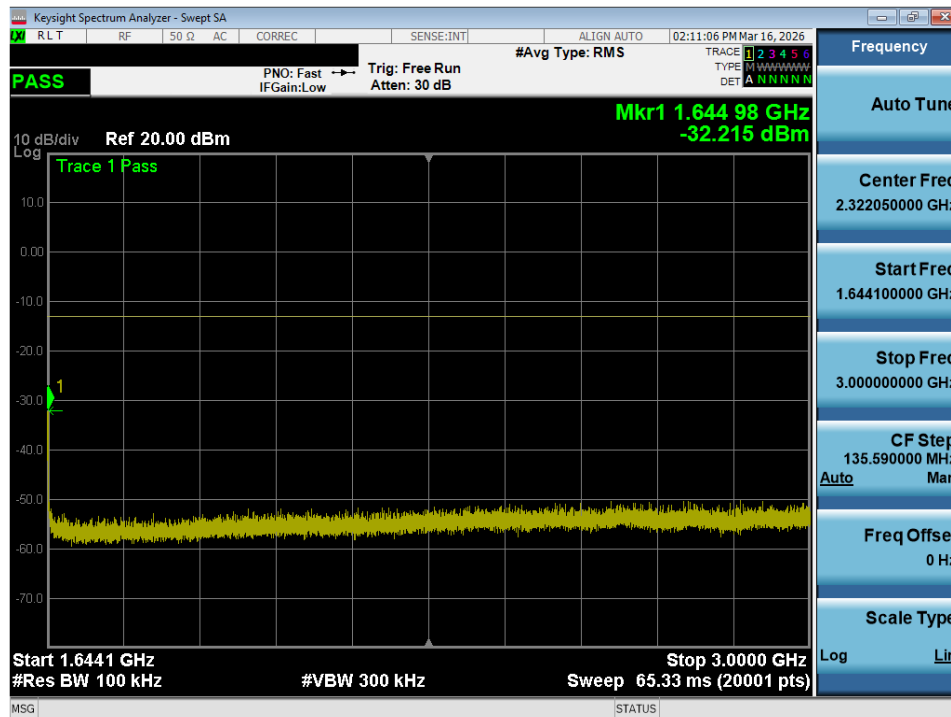


Plot 7-65. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 53 of 84

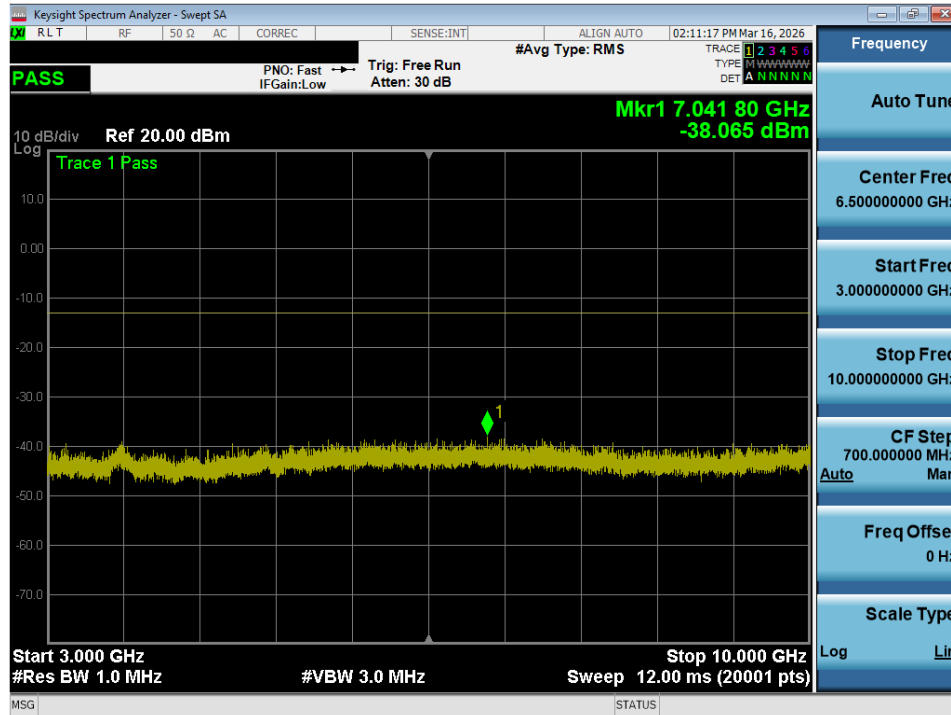


Plot 7-66. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – BPSK

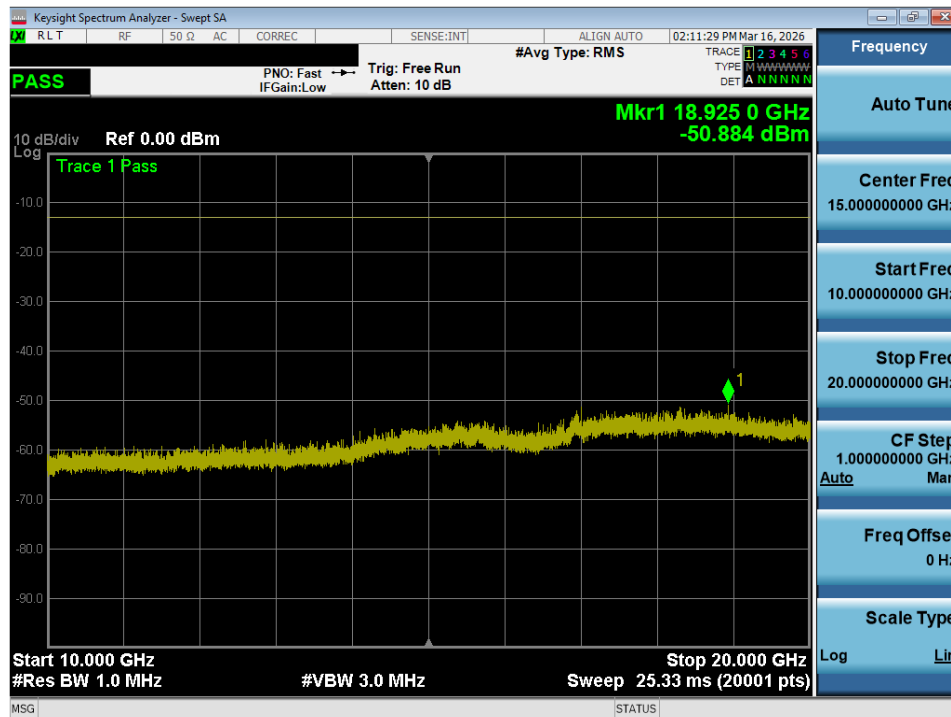


Plot 7-67. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 54 of 84

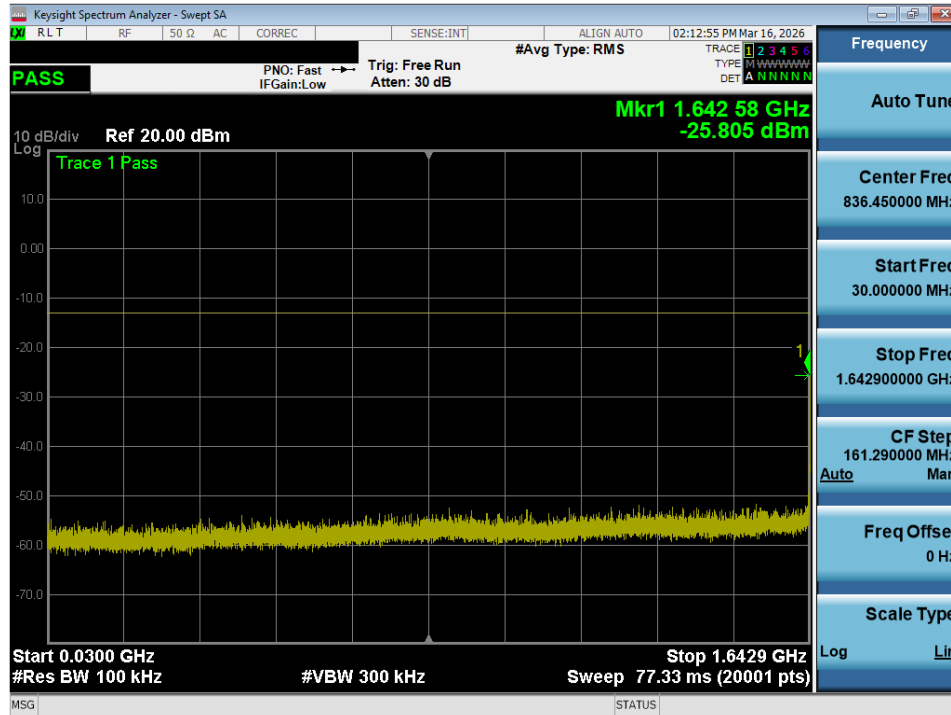


Plot 7-68. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – BPSK

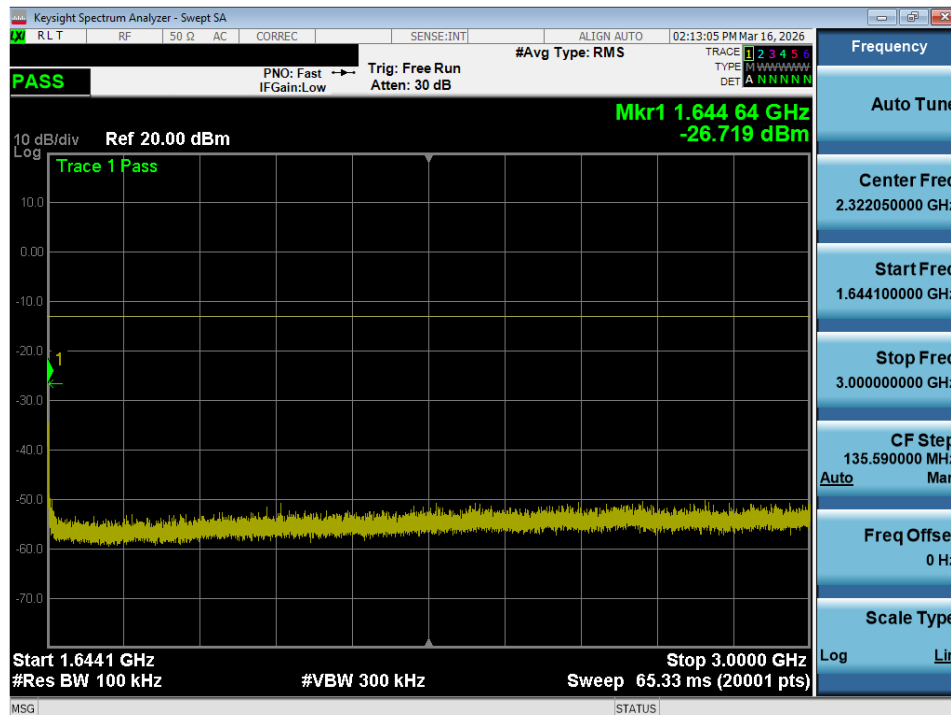


Plot 7-69. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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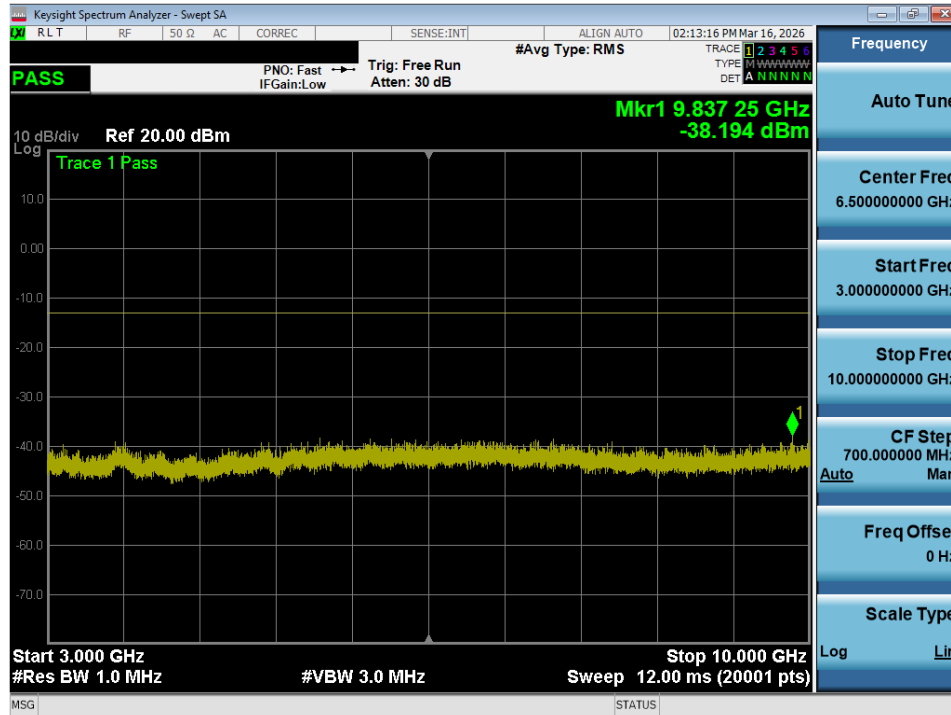


Plot 7-70. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – QPSK

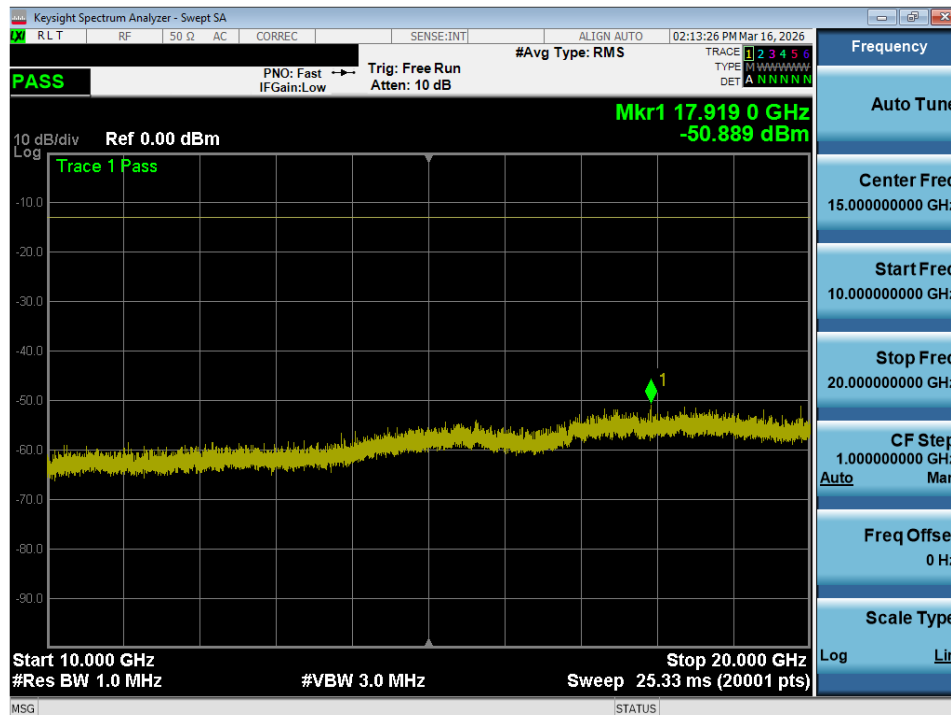


Plot 7-71. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 56 of 84

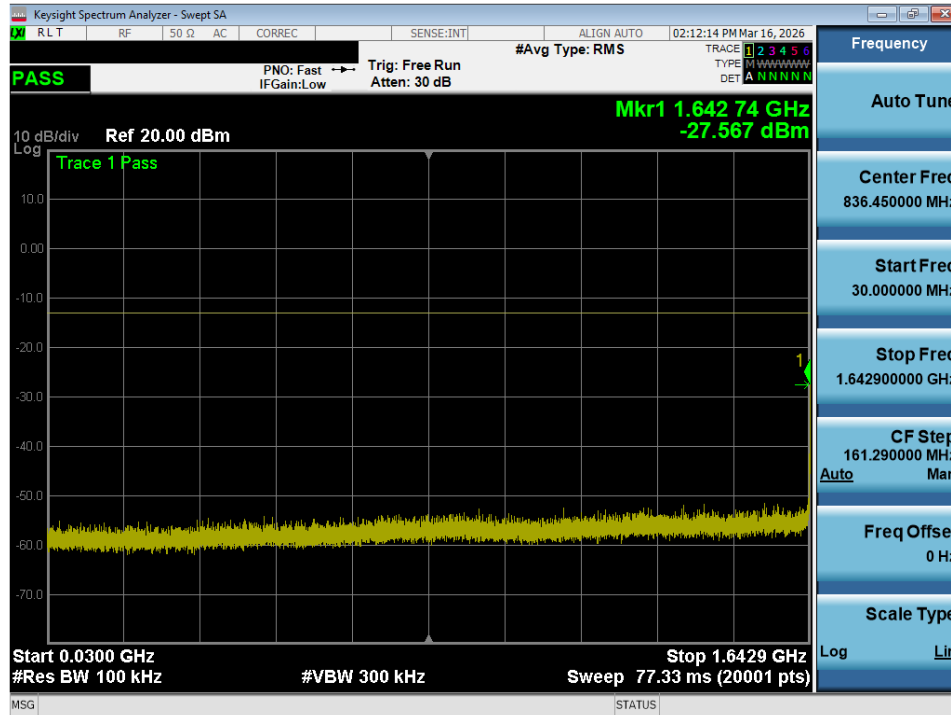


Plot 7-72. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – QPSK

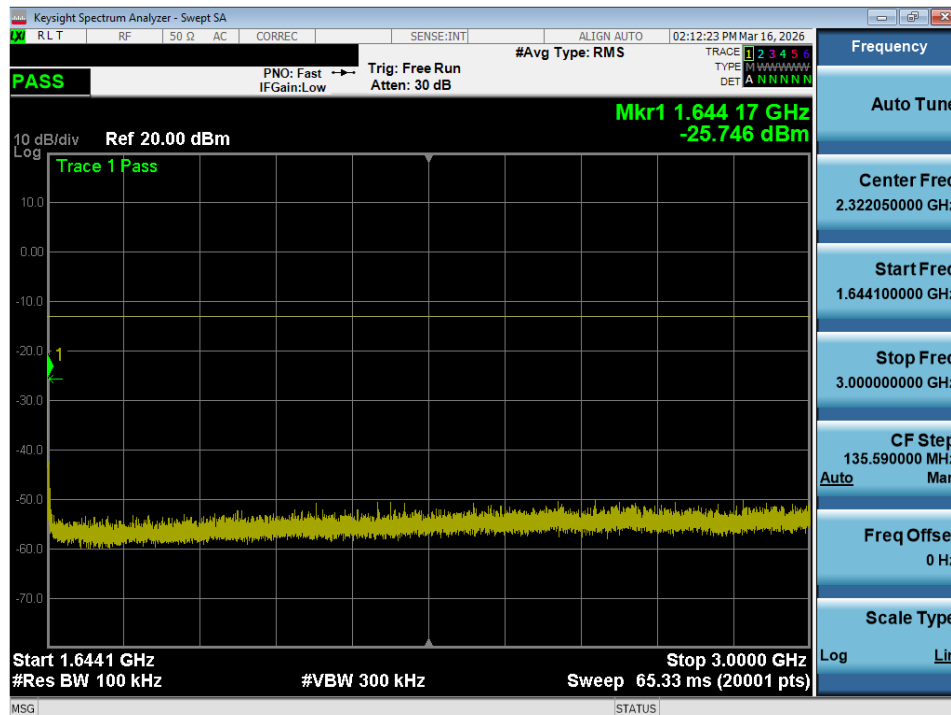


Plot 7-73. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 57 of 84

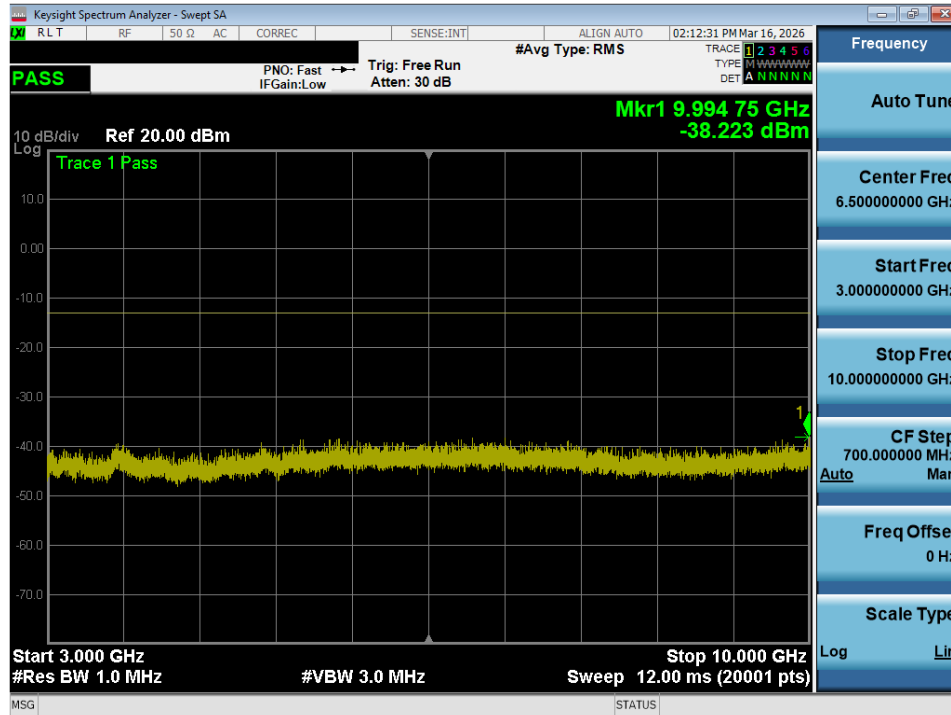


Plot 7-74. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – BPSK

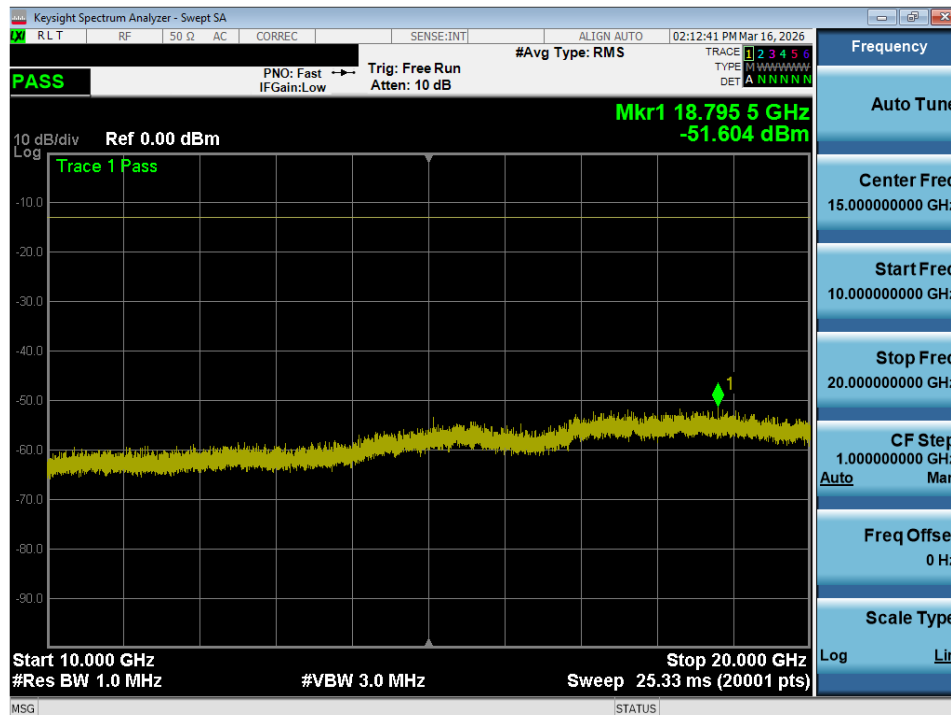


Plot 7-75. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 58 of 84

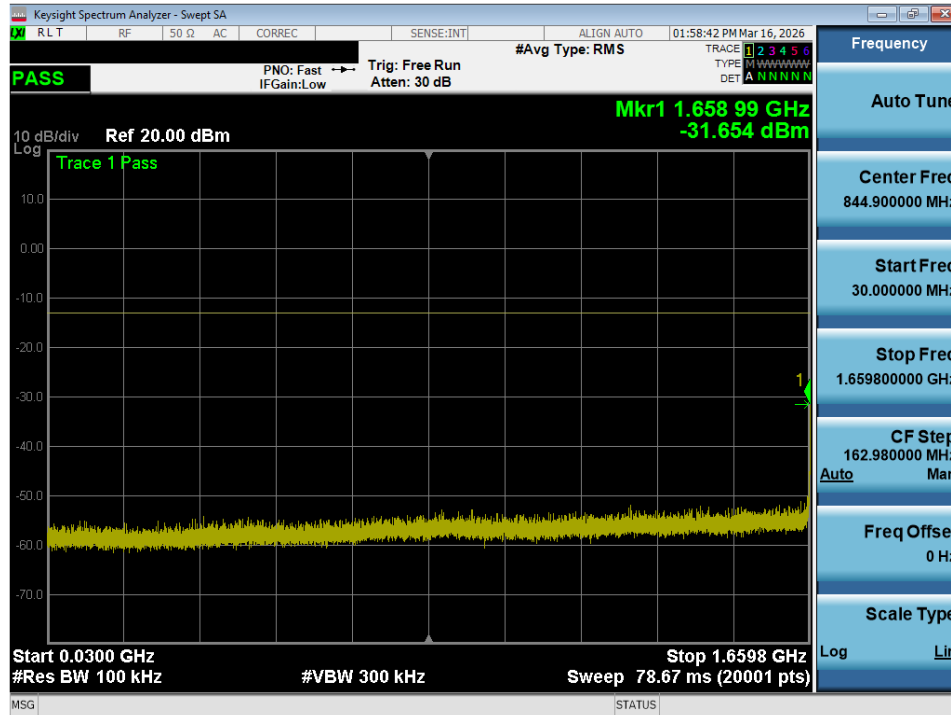


Plot 7-76. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – BPSK

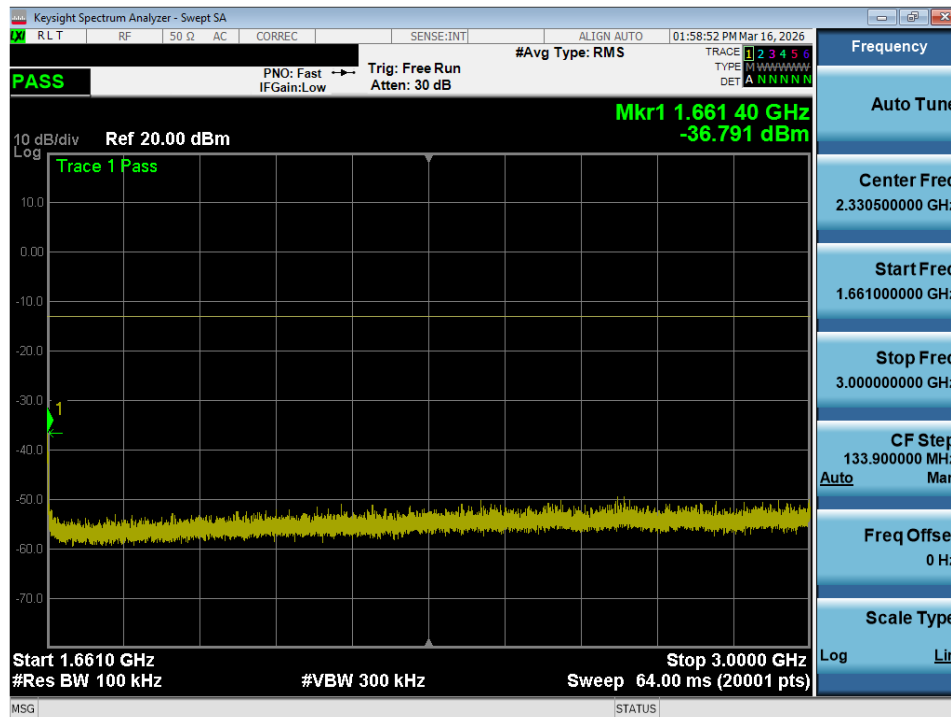


Plot 7-77. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 59 of 84

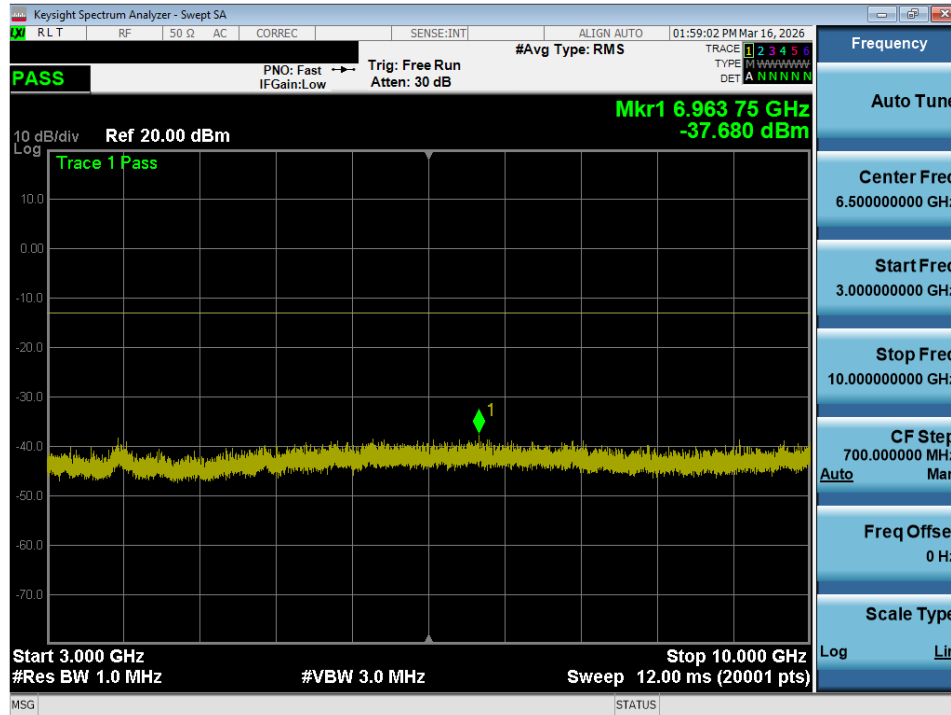


Plot 7-78. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – QPSK

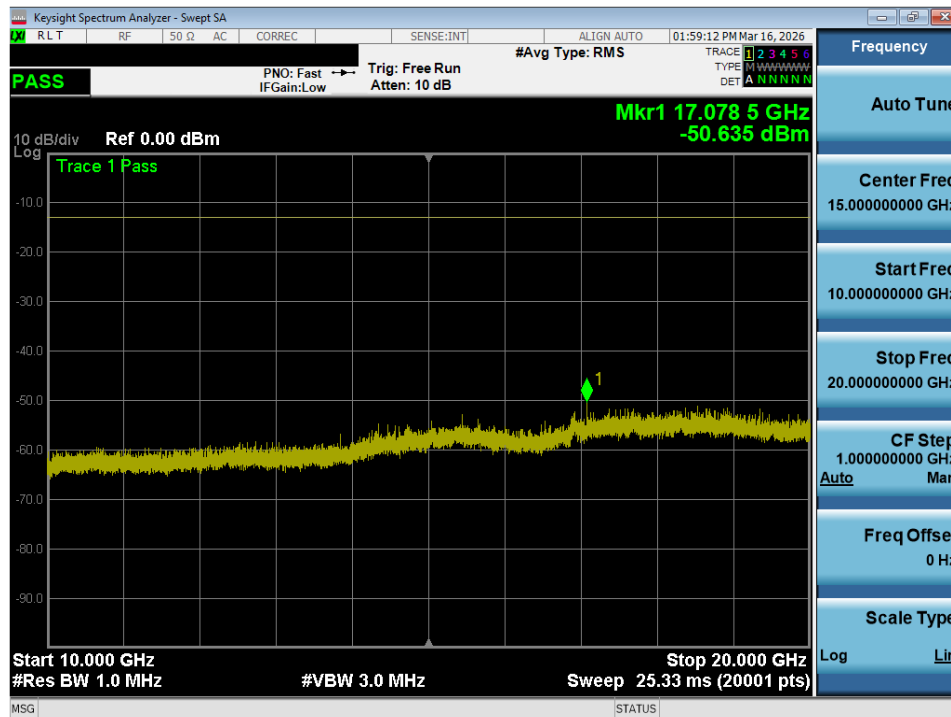


Plot 7-79. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 60 of 84

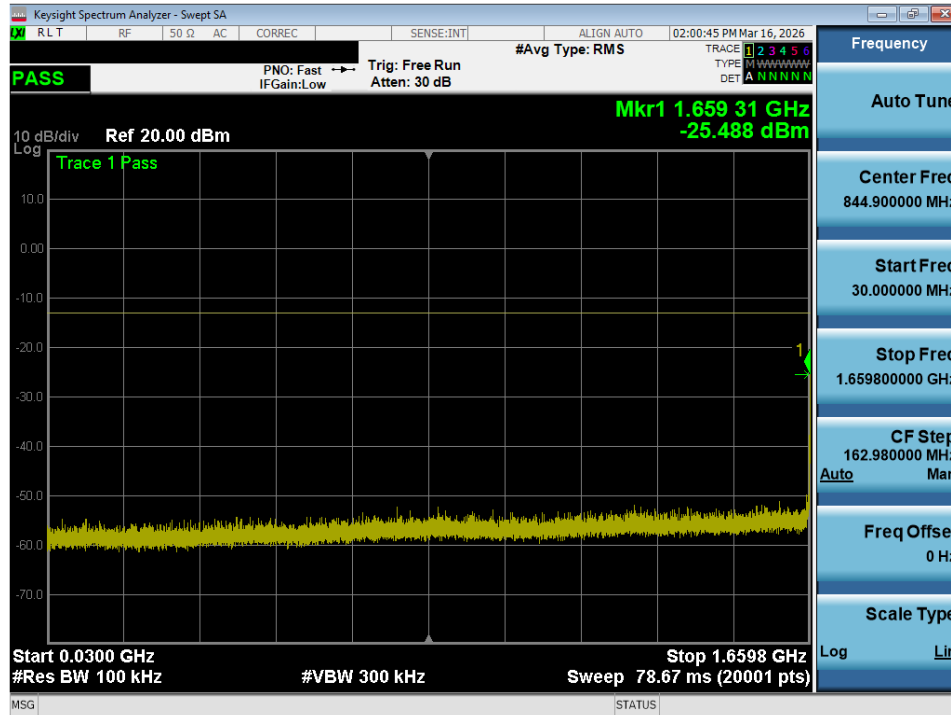


Plot 7-80. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – QPSK

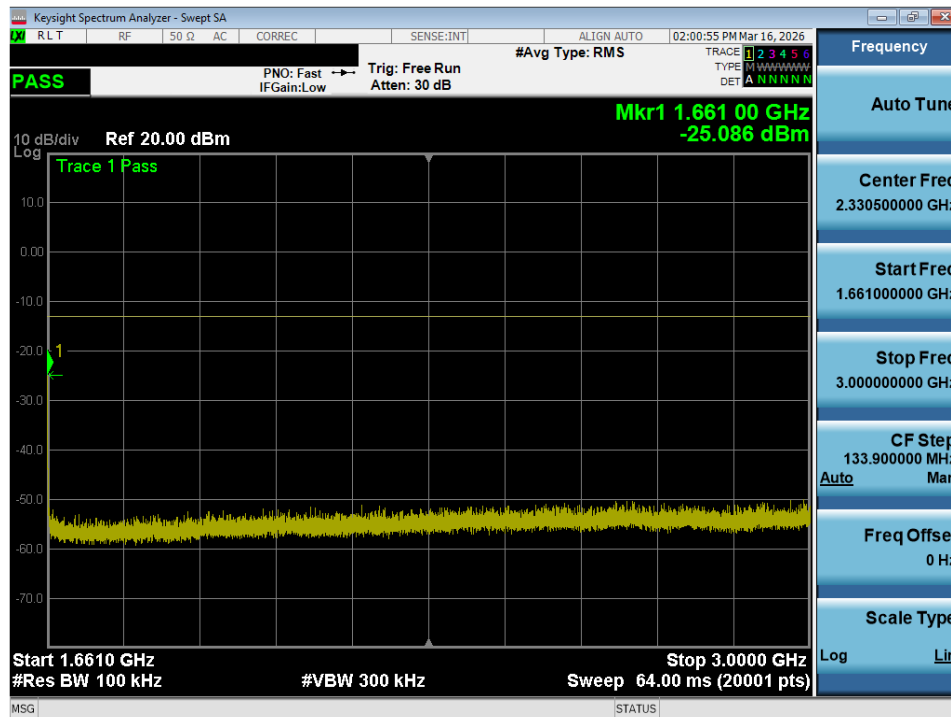


Plot 7-81. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 61 of 84

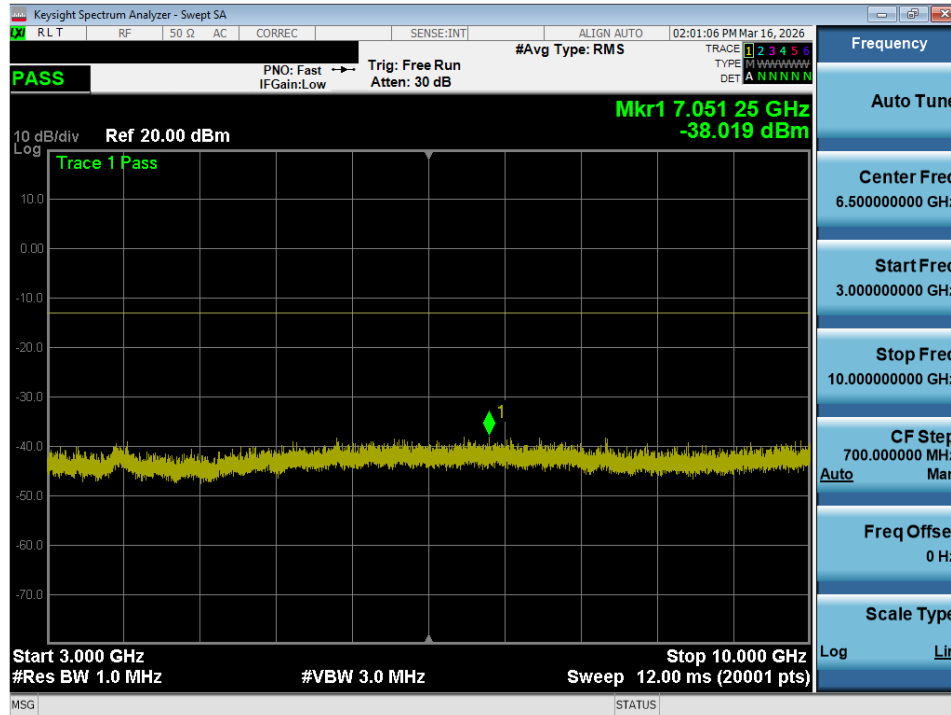


Plot 7-82. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – BPSK

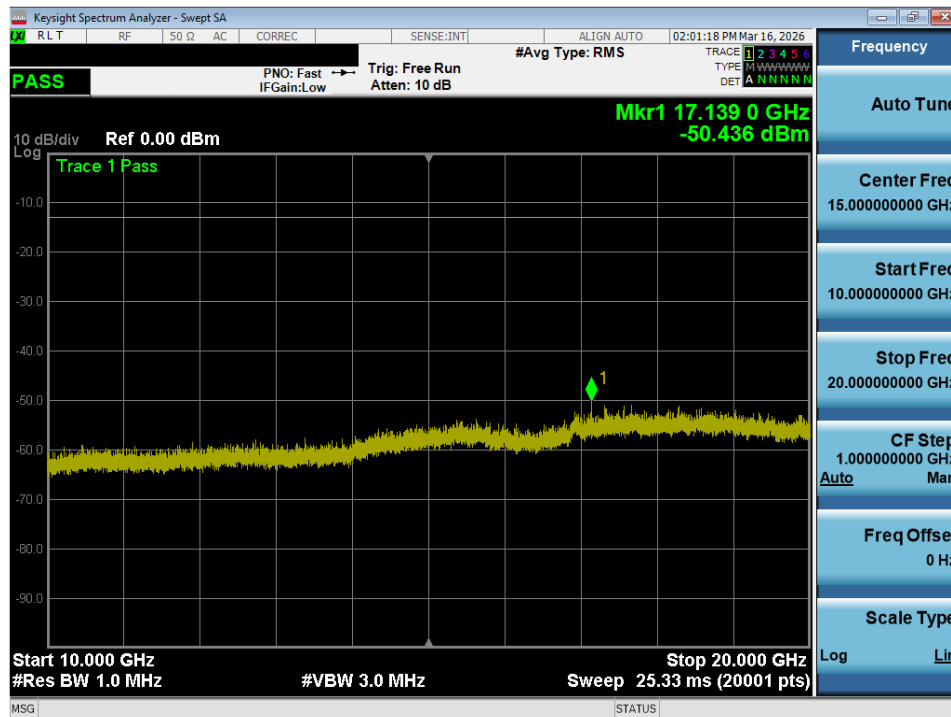


Plot 7-83. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 62 of 84

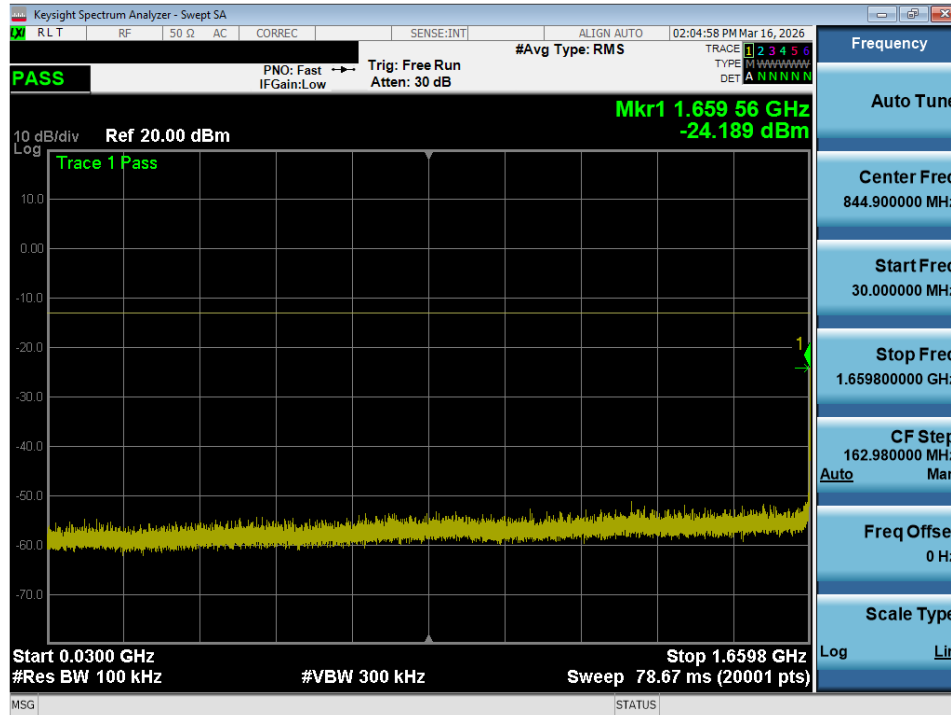


Plot 7-84. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – BPSK

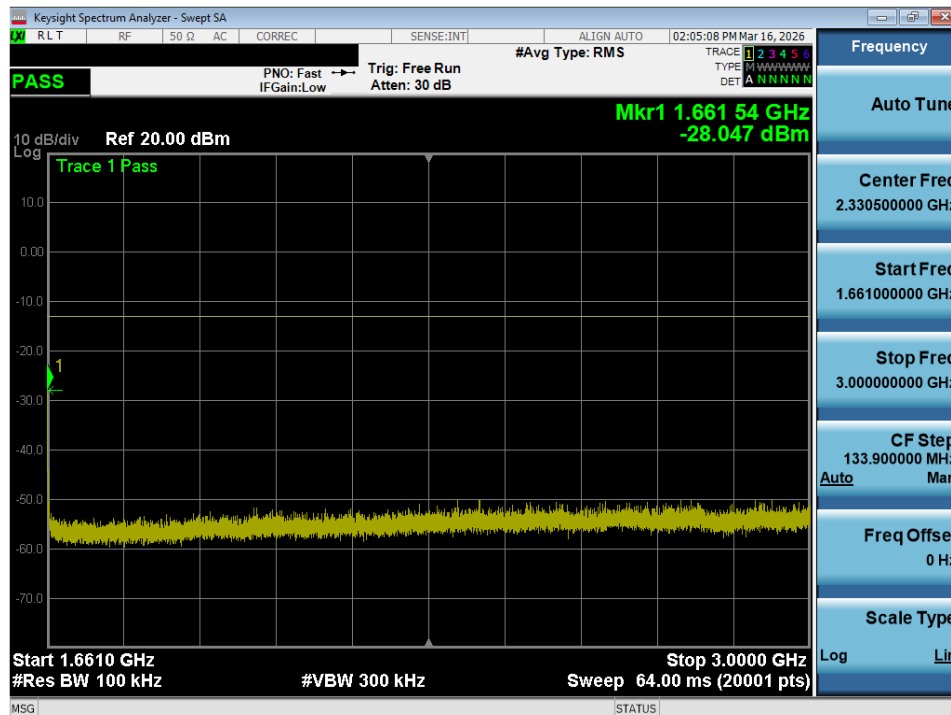


Plot 7-85. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 63 of 84

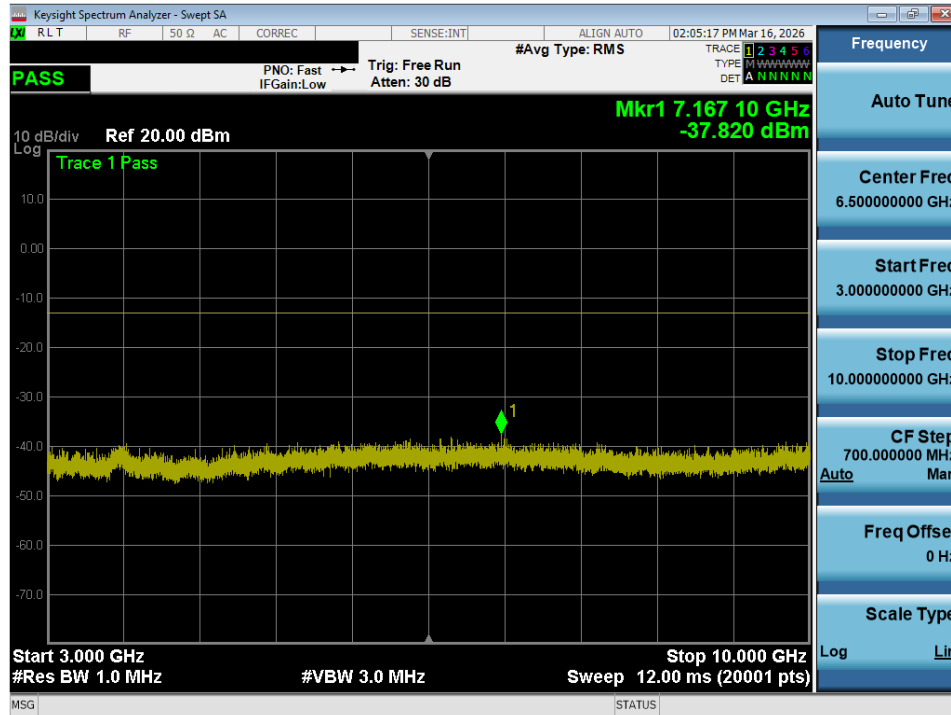


Plot 7-86. Conducted Spurious Emission - 15kHz SCS - High Channel - 1SC0 – QPSK

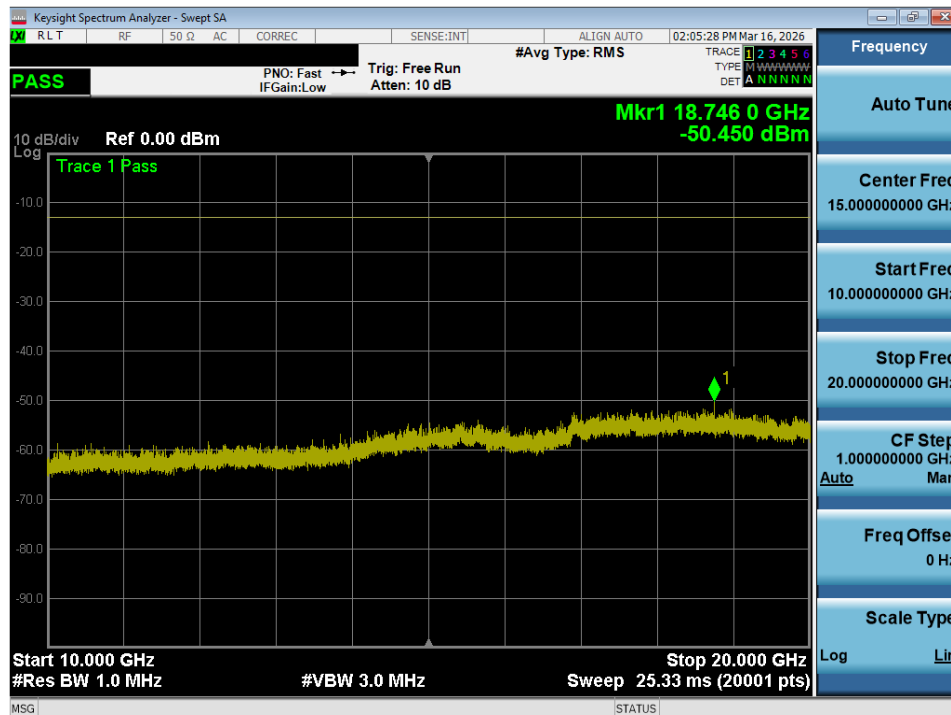


Plot 7-87. Conducted Spurious Emission - 15kHz SCS - High Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 64 of 84

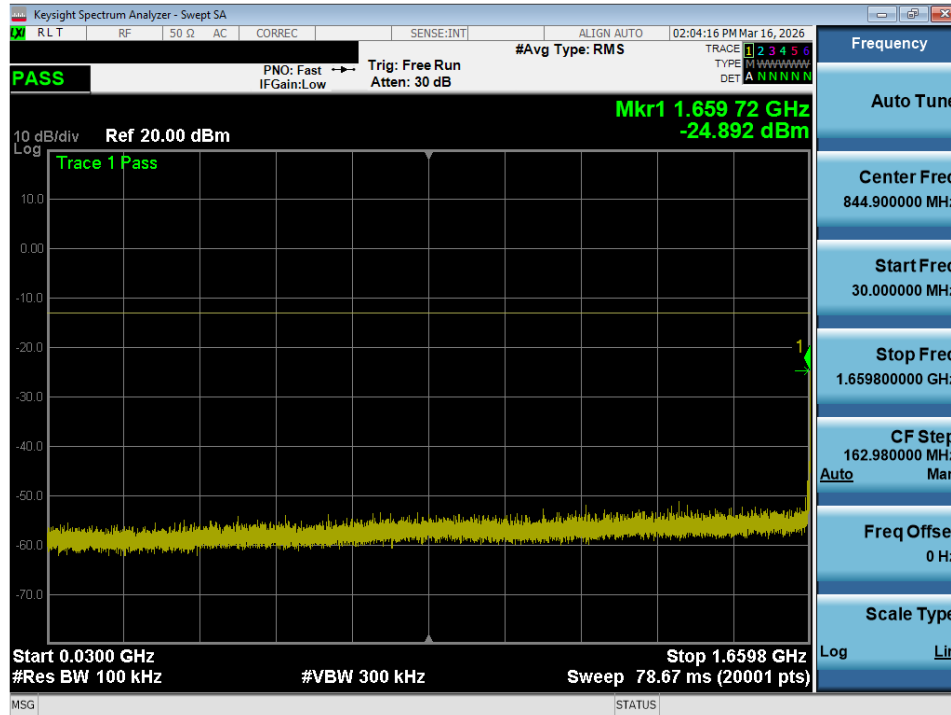


Plot 7-88. Conducted Spurious Emission - 15kHz SCS - High Channel - 1SC0 – QPSK

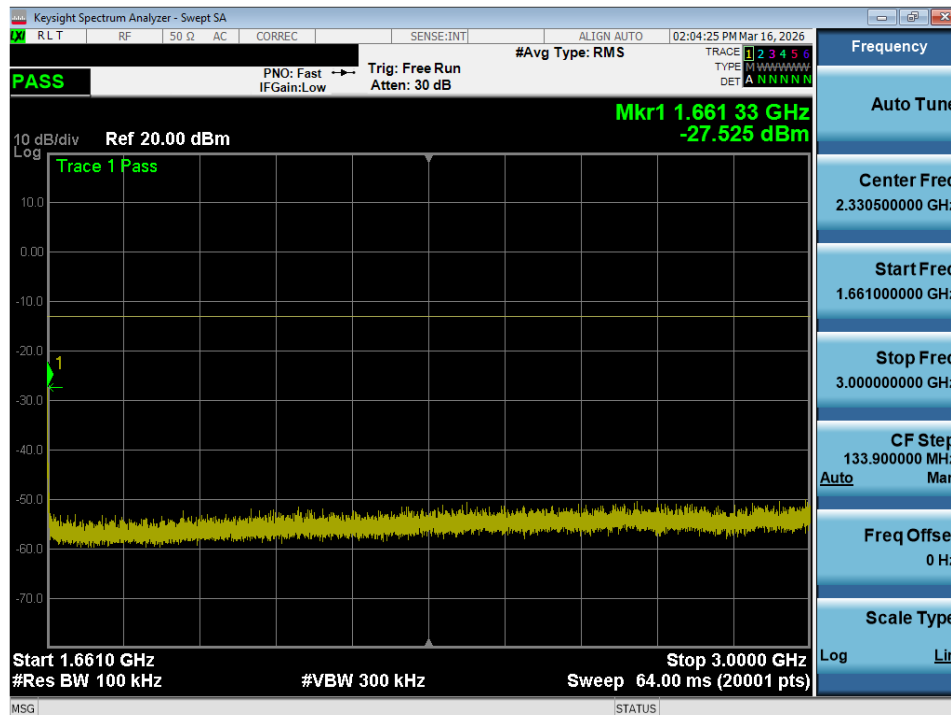


Plot 7-89. Conducted Spurious Emission - 15kHz SCS - High Channel - 1SC0 – QPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 65 of 84

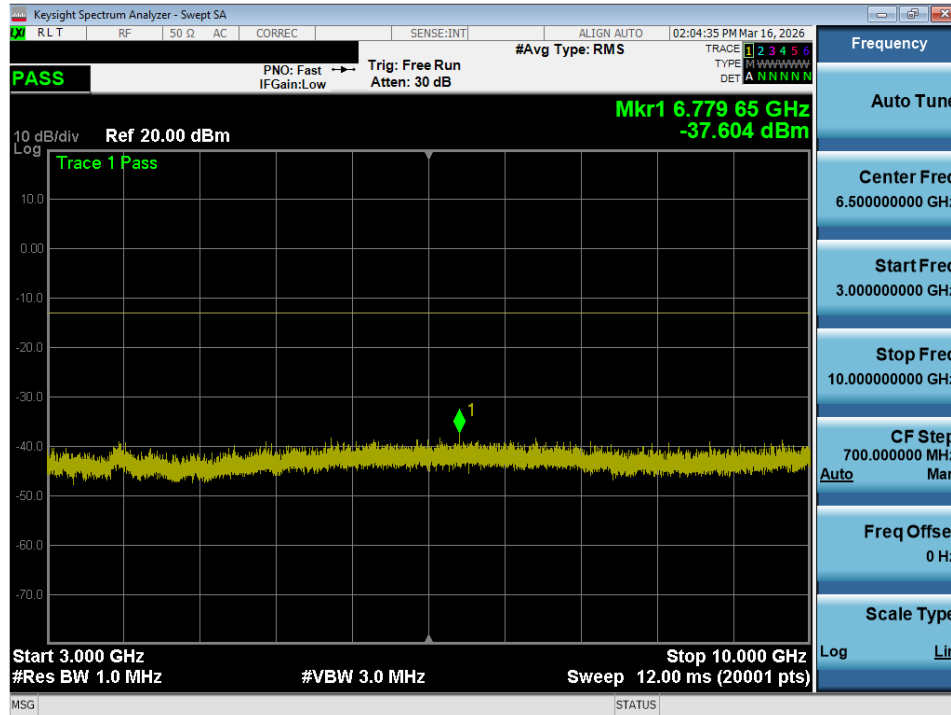


Plot 7-90. Conducted Spurious Emission - 15kHz SCS - High Channel - 1SC0 – BPSK

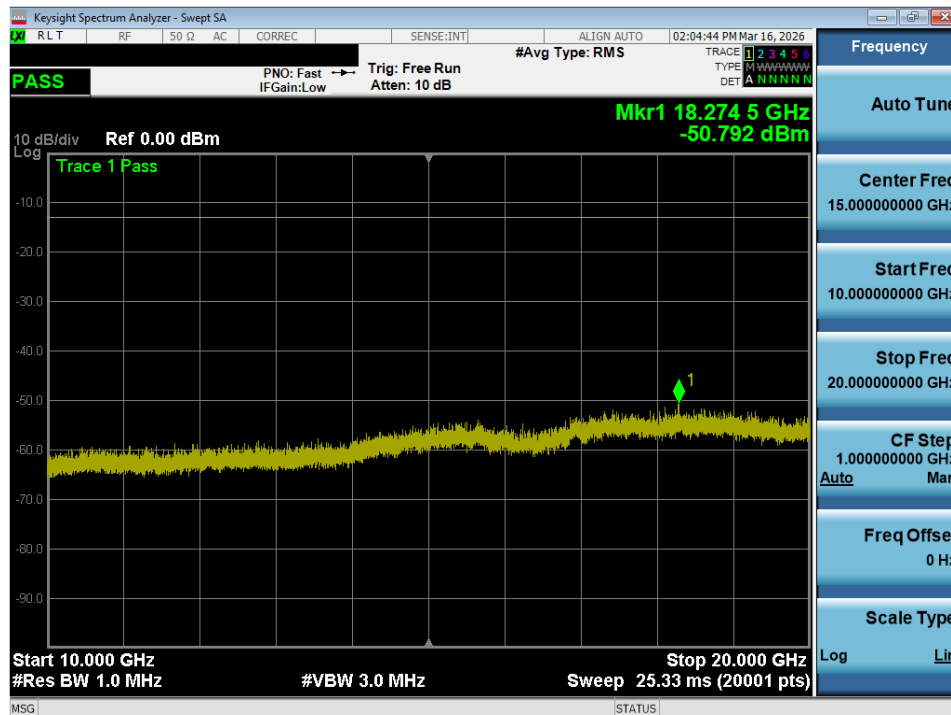


Plot 7-91. Conducted Spurious Emission - 15kHz SCS - High Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 66 of 84



Plot 7-92. Conducted Spurious Emission - 15kHz SCS - High Channel - 1SC0 – BPSK



Plot 7-93. Conducted Spurious Emission - 15kHz SCS - High Channel - 1SC0 – BPSK

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 67 of 84

7.6 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.

The EIRP shall not exceed +40 dBW in any 4 kHz band.

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.
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".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 68 of 84

Test Setup

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

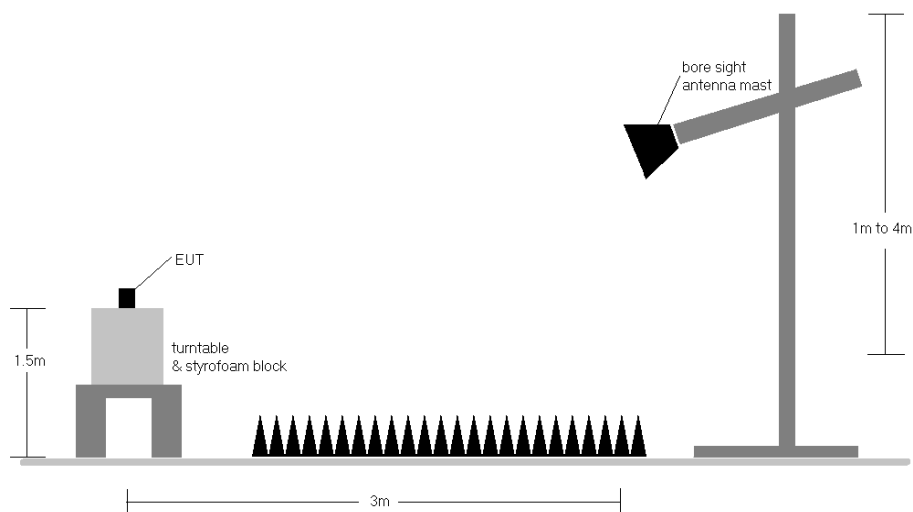


Figure 7-5. Radiated Test Setup >1GHz

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: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 69 of 84

Bandwidth	SC Size	Modulation	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	Result
3.75kHz	1SC0	BPSK	1626.6	H	136	174	3.06	17.82	20.88	0.123	Pass
	1SC24	BPSK	1626.6	H	136	174	3.06	17.96	21.02	0.127	Pass
	1SC47	BPSK	1626.6	H	136	174	3.06	17.66	20.72	0.118	Pass
15kHz	1SC0	QPSK	1626.6	H	136	174	3.06	17.84	20.90	0.123	Pass
	1SC6	QPSK	1626.6	H	136	174	3.06	17.94	21.00	0.126	Pass
	1SC11	QPSK	1626.6	H	136	174	3.06	17.79	20.85	0.122	Pass
	3SC0	QPSK	1626.6	H	136	174	3.06	17.27	20.33	0.108	Pass
	3SC6	QPSK	1626.6	H	136	174	3.06	17.31	20.37	0.109	Pass
	3SC9	QPSK	1626.6	H	136	174	3.06	17.35	20.41	0.110	Pass
	6SC0	QPSK	1626.6	H	136	174	3.06	17.50	20.56	0.114	Pass
	6SC6	QPSK	1626.6	H	136	174	3.06	17.62	20.68	0.117	Pass
	12SC0	QPSK	1626.6	H	136	174	3.06	17.50	20.56	0.114	Pass
3.75kHz	1SC0	BPSK	1643.5	H	143	169	3.07	16.62	19.69	0.093	Pass
	1SC24	BPSK	1643.5	H	143	169	3.07	17.45	20.52	0.113	Pass
	1SC47	BPSK	1643.5	H	143	169	3.07	16.65	19.72	0.094	Pass
15kHz	1SC0	QPSK	1643.5	H	143	169	3.07	17.03	20.10	0.102	Pass
	1SC6	QPSK	1643.5	H	143	169	3.07	17.21	20.28	0.107	Pass
	1SC11	QPSK	1643.5	H	143	169	3.07	17.23	20.30	0.107	Pass
	3SC0	QPSK	1643.5	H	143	169	3.07	15.42	18.49	0.071	Pass
	3SC6	QPSK	1643.5	H	143	169	3.07	15.58	18.65	0.073	Pass
	3SC9	QPSK	1643.5	H	143	169	3.07	15.53	18.60	0.072	Pass
	6SC0	QPSK	1643.5	H	143	169	3.07	15.62	18.69	0.074	Pass
	6SC6	QPSK	1643.5	H	143	169	3.07	15.52	18.59	0.072	Pass
	12SC0	QPSK	1643.5	H	143	169	3.07	15.56	18.63	0.073	Pass
3.75kHz	1SC0	BPSK	1660.4	H	139	186	3.06	16.13	19.19	0.083	Pass
	1SC24	BPSK	1660.4	H	139	186	3.06	16.53	19.59	0.091	Pass
	1SC47	BPSK	1660.4	H	139	186	3.06	16.00	19.06	0.080	Pass
15kHz	1SC0	QPSK	1660.4	H	139	186	3.06	16.17	19.23	0.084	Pass
	1SC6	QPSK	1660.4	H	139	186	3.06	16.60	19.66	0.092	Pass
	1SC11	QPSK	1660.4	H	139	186	3.06	16.36	19.42	0.087	Pass
	3SC0	QPSK	1660.4	H	139	186	3.06	15.57	18.63	0.073	Pass
	3SC6	QPSK	1660.4	H	139	186	3.06	15.52	18.58	0.072	Pass
	3SC9	QPSK	1660.4	H	139	186	3.06	15.52	18.58	0.072	Pass
	6SC0	QPSK	1660.4	H	139	186	3.06	15.67	18.73	0.075	Pass
	6SC6	QPSK	1660.4	H	139	186	3.06	15.52	18.58	0.072	Pass
	12SC0	QPSK	1660.4	H	139	186	3.06	15.55	18.61	0.073	Pass
3.75kHz	1SC6	QPSK (Opposite Pol.)	1626.6	V	142	184	3.23	16.69	19.92	0.098	Pass
	WCP	QPSK	1626.6	H	293	205	3.06	16.22	19.28	0.085	Pass

Table 7-6. EIRP Power Result

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT		Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 70 of 84

7.7 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 $\geq$ 100kHz
2. VBW $\geq$ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq$ 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average
7. The trace was allowed to stabilize

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 71 of 84

Test Setup

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

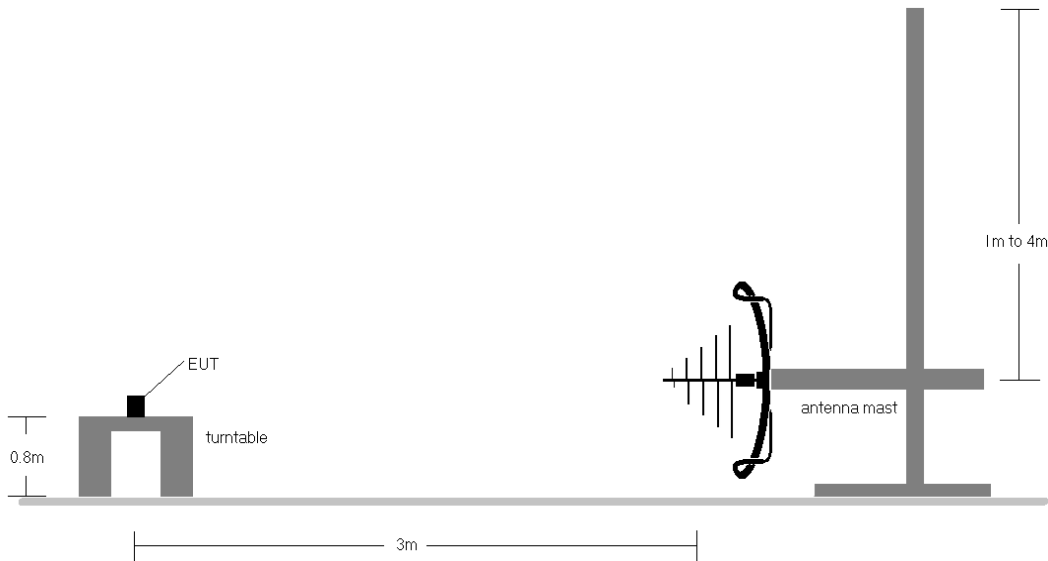


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

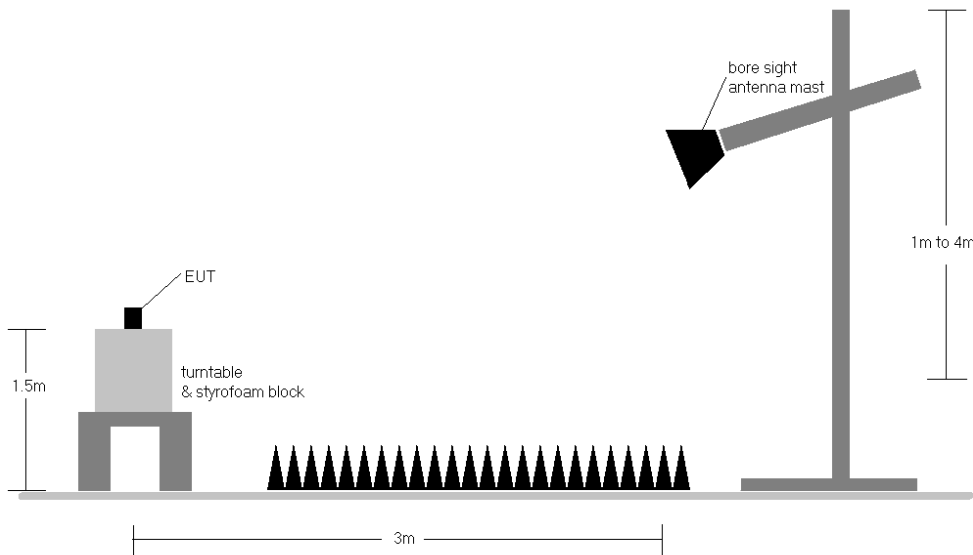


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

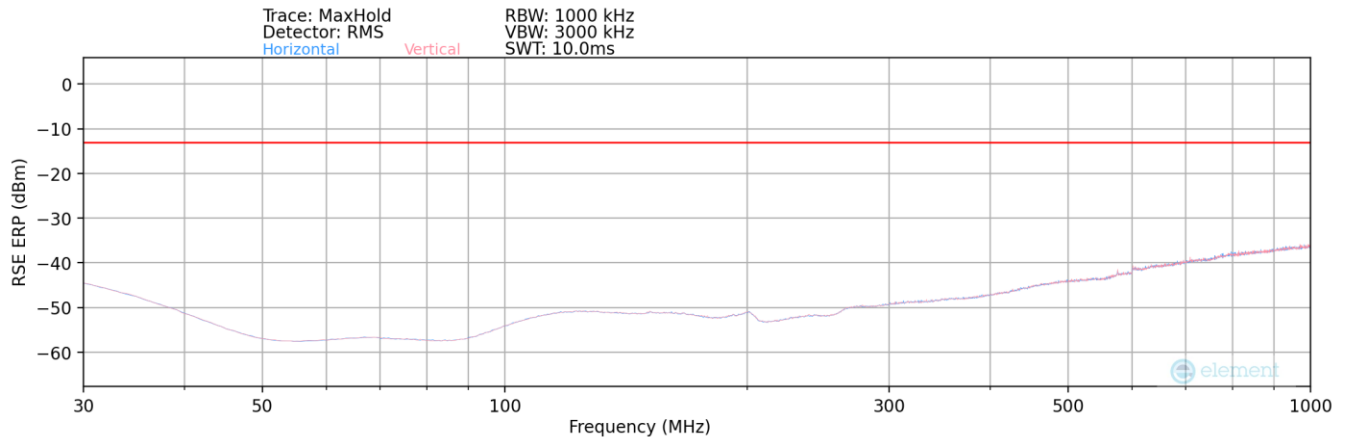
FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 72 of 84

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: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 73 of 84

Band 255

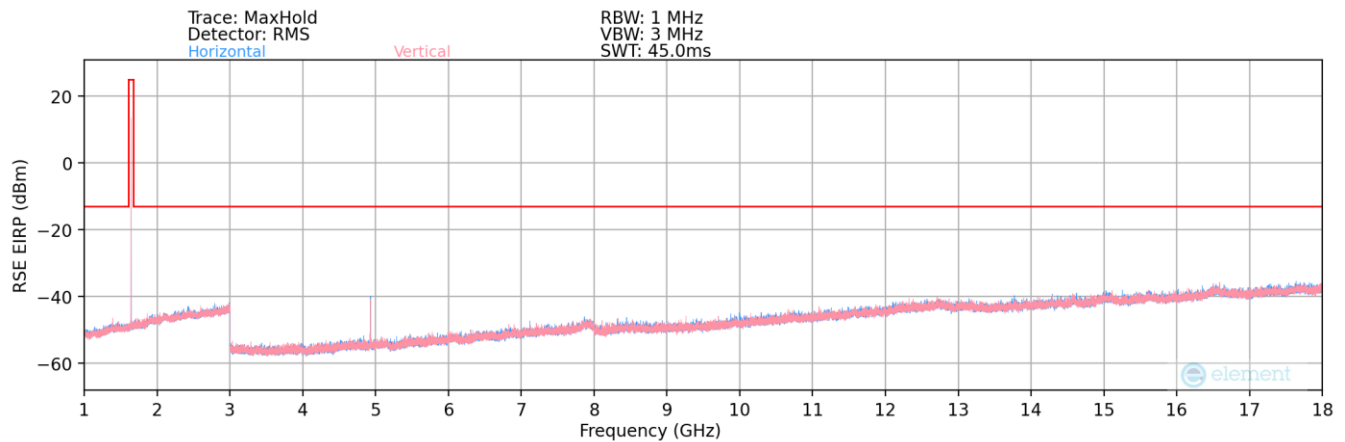


Plot 7-94. Radiated Spurious Plot – Band 255

Frequency (MHz):	1660.4
RB / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
575.63	V	-	-	-94.11	26.92	39.81	-57.59	-13.00	-44.59
601.83	V	-	-	-93.97	27.06	40.09	-57.32	-13.00	-44.32
708.52	V	-	-	-94.01	28.74	41.73	-55.68	-13.00	-42.68
969.93	V	-	-	-92.45	31.52	46.07	-51.33	-13.00	-38.33

Table 7-7. Radiated Spurious Data – Band 255



Plot 7-95. Radiated Spurious Plot – Band 255

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Frequency (MHz):	1626.6
SC / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3253.20	V	365	328	-75.04	4.77	36.73	-58.53	-13.00	-45.53
4879.80	V	293	327	-60.35	6.90	53.55	-41.70	-13.00	-28.70
6506.40	V	-	-	-80.35	10.81	37.46	-57.80	-13.00	-44.80
8133.00	V	-	-	-80.30	12.89	39.59	-55.67	-13.00	-42.67
9759.60	V	-	-	-81.91	15.71	40.80	-54.46	-13.00	-41.46

Table 7-8. Radiated Spurious Data – Band 255 – Low Channel

Frequency (MHz):	1643.5
SC / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3287.00	V	124	156	-73.12	5.02	38.90	-56.36	-13.00	-43.36
4930.50	V	290	321	-59.18	7.22	55.04	-40.22	-13.00	-27.22
6574.00	V	-	-	-80.32	10.86	37.54	-57.72	-13.00	-44.72
8217.50	V	-	-	-81.15	13.49	39.34	-55.92	-13.00	-42.92
9861.00	V	-	-	-81.92	15.83	40.91	-54.35	-13.00	-41.35

Table 7-9. Radiated Spurious Data – Band 255 – Mid Channel

Frequency (MHz):	1660.4
SC / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3320.80	V	135	321	-76.08	5.08	36.00	-59.26	-13.00	-46.26
4981.20	V	222	319	-55.51	7.50	58.99	-36.26	-13.00	-23.26
6641.60	V	-	-	-79.91	10.24	37.33	-57.93	-13.00	-44.93
8302.00	V	-	-	-80.97	13.91	39.94	-55.32	-13.00	-42.32
9962.40	V	-	-	-81.76	15.99	41.23	-54.02	-13.00	-41.02

Table 7-10. Radiated Spurious Data – Band 255 – High Channel

Frequency (MHz):	1660.4
SC / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3320.80	V	-	-	-79.22	5.08	32.86	-62.40	-13.00	-49.40
4981.20	V	247	321	-61.61	7.50	52.89	-42.36	-13.00	-29.36
6641.60	V	-	-	-79.96	10.24	37.28	-57.98	-13.00	-44.98
8302.00	V	-	-	-80.87	13.91	40.04	-55.22	-13.00	-42.22
9962.40	V	-	-	-81.95	15.99	41.04	-54.21	-13.00	-41.21

Table 7-11. Radiated Spurious Data – Band 255 – with WCP

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 75 of 84

7.8 Radiated Spurious Emissions Measurements (1559 – 1610MHz)

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.

Per FCC Part 25.216:

(c) The e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed -70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed -80 dBW, averaged over any 2 millisecond active transmission interval, in the 1559-1605 MHz band

(h) Mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies in the 1626.5-1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band-segment to an extent determined by linear interpolation from -70 dBW/MHz at 1605 MHz to -46 dBW/MHz at 1610 MHz, averaged over any 2 millisecond active transmission interval. The e.i.r.p of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed a level determined by linear interpolation from -80 dBW at 1605 MHz to -56 dBW at 1610 MHz, averaged over any 2 millisecond active transmission interval.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1559 – 1610MHz
4. No. of sweep points = 1001
5. Detector = RMS
6. Trace mode = Average
7. The trace was allowed to stabilize

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 76 of 84

Test Setup

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

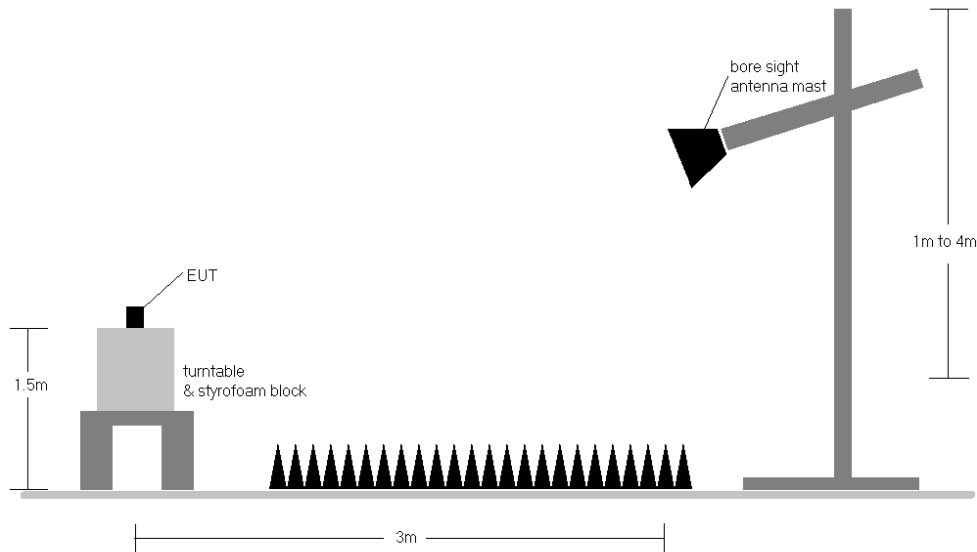


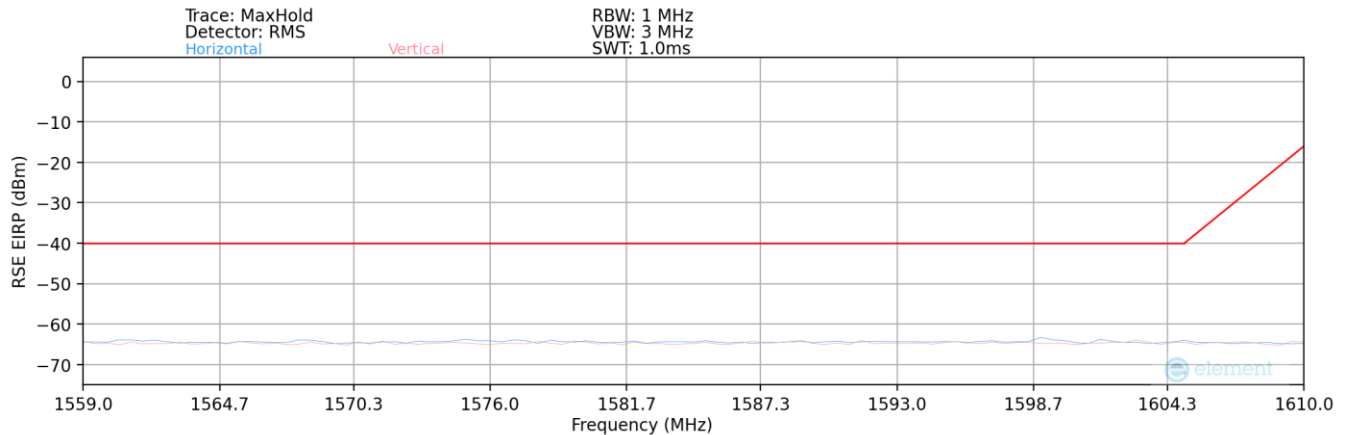
Figure 7-8. Test Instrument & Measurement Setup >1 GHz

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 77 of 84

Band 255 (1559 – 1610MHz)



Plot 7-96. Radiated Spurious Plot – Band 255 (1559 – 1610MHz)

Frequency (MHz):	1626.6
RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1568.32	V	-	-	-77.84	-1.13	28.03	-67.22	-40.00	-27.22
1587.64	V	-	-	-77.50	-1.31	28.19	-67.07	-40.00	-27.07
1586.91	V	-	-	-77.64	-1.30	28.06	-67.20	-40.00	-27.20

Table 7-12. Radiated Spurious Data – Band 255 – Low Channel

Frequency (MHz):	1643.5
RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1577.58	V	-	-	-77.88	-1.19	27.93	-67.32	-40.00	-27.32
1587.03	V	-	-	-77.62	-1.30	28.08	-67.18	-40.00	-27.18
1598.44	V	-	-	-77.69	-1.41	27.90	-67.36	-40.00	-27.36

Table 7-13. Radiated Spurious Data – Band 255 – Mid Channel

Frequency (MHz):	1660.4
RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1565.00	V	-	-	-77.57	-1.12	28.31	-66.95	-40.00	-26.95
1592.28	V	-	-	-77.57	-1.37	28.06	-67.20	-40.00	-27.20
1596.13	V	-	-	-77.59	-1.40	28.01	-67.25	-40.00	-27.25

Table 7-14. Radiated Spurious Data – Band 255 – High Channel

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 78 of 84

7.9 Carrier-Off State Emissions Measurements (1559 – 1610MHz)

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.

Per FCC Part 25.216:

(i) The e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3 GHz shall not exceed -80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points = 1001
5. Detector = RMS
6. Trace mode = Average
7. The trace was allowed to stabilize

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 79 of 84

Test Setup

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

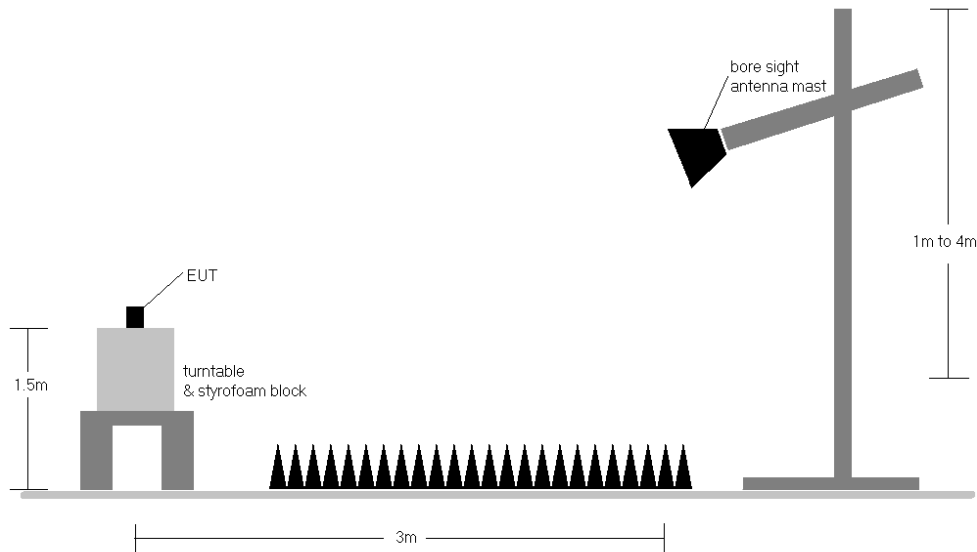


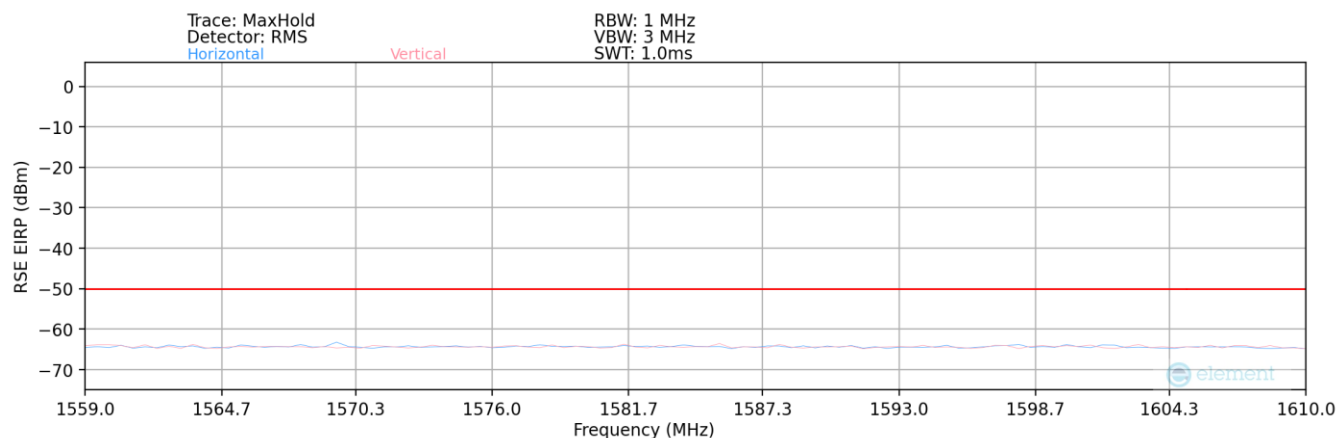
Figure 7-9. Test Instrument & Measurement Setup >1 GHz

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 80 of 84

Band 255 (1559 – 1610MHz, Carrier Off)



Plot 7-97. Radiated Spurious Plot – Band 255 (1559 – 1610MHz, Carrier Off)

Frequency (MHz):	1626.6
RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.51	V	-	-	-77.50	-1.11	28.39	-66.86	-50.00	-16.86
1588.53	V	-	-	-77.43	-1.32	28.25	-67.01	-50.00	-17.01
1597.59	V	-	-	-77.40	-1.41	28.19	-67.07	-50.00	-17.07

Table 7-15. Radiated Spurious Data – Band 255 – Low Channel, Carrier Off

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 81 of 84

7.10 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.

Per FCC Part 25.202(d) Frequency tolerance, Earth stations. The carrier frequency of each earth station transmitter authorized in these services shall be maintained within 0.001 percent of the reference frequency.

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

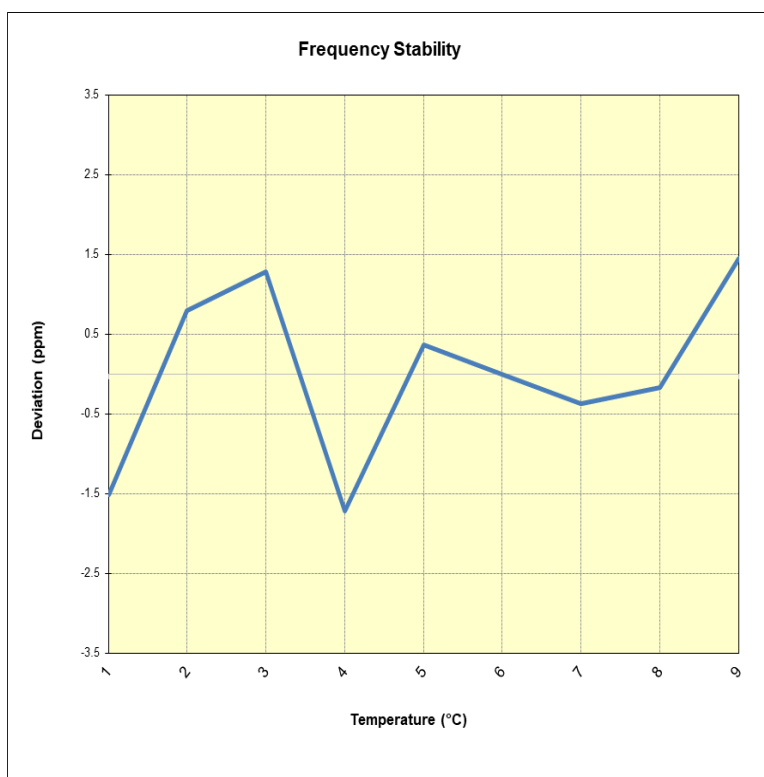
FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 82 of 84

NTN Band 255

Operating Frequency (Hz):	1,643,500,000
Ref. Voltage (VDC):	4.521
Deviation Limit:	± 0.001% or 10 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.521	- 30	1,643,497,120	-2,475	-0.0001506
		- 20	1,643,500,908	1,313	0.0000799
		- 10	1,643,501,701	2,106	0.0001281
		0	1,643,496,786	-2,809	-0.0001709
		+ 10	1,643,500,202	607	0.0000369
		+ 20 (Ref)	1,643,499,595	0	0.0000000
		+ 30	1,643,498,987	-608	-0.0000370
		+ 40	1,643,499,323	-272	-0.0000166
		+ 50	1,643,501,983	2,388	0.0001453
Battery Endpoint	3.398	+ 20	1,643,501,217	1,622	0.0000987

Table 7-16. Frequency Stability Data



Plot 7-98. Frequency Stability Chart

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 83 of 84

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF776U** complies with the requirements of Part 25 of the FCC rules for operation in the 1626.5 – 1660.5MHz band.

- END OF TEST REPORT -

FCC ID: A3LSMF776U	PART 25 MEASUREMENT REPORT	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-04-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 84 of 84