



ELEMENT WASHINGTON DC LLC

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PART 22 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

5/29/2025 - 7/8/2025

Test Report Issue Date:

7/21/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2505130050-01.A3L

FCC ID:

A3LSMX736B

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-X736B

EUT Type:

Portable Tablet

FCC Classification:

PCS Licensed Transmitter (PCB)

FCC Rule Part:

22

Test Procedure(s):

ANSI C63.26-2015

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

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

RJ Ortanez
Executive Vice President



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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	ERP		EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	
GSM/GPRS	N/A	GMSK	824.2 - 848.8	1.403	31.47	2.302	33.62	244KGXW
EDGE	N/A	8-PSK	824.2 - 848.8	0.260	24.14	0.426	26.29	247KG7W
WCDMA	N/A	Spread Spectrum	826.4 - 846.6	0.162	22.10	0.266	24.25	4M17F9W
LTE Band 26/5	15MHz (Band 26 only)	QPSK	831.5 - 841.5	0.219	23.41	0.360	25.56	13M5G7D
		16QAM	831.5 - 841.5	0.189	22.75	0.309	24.90	13M6W7D
	10 MHz	QPSK	829.0 - 844.0	0.216	23.34	0.354	25.49	9M05G7D
		16QAM	829.0 - 844.0	0.175	22.43	0.287	24.58	9M01W7D
	5 MHz	QPSK	826.5 - 846.5	0.196	22.92	0.322	25.07	4M53G7D
		16QAM	826.5 - 846.5	0.164	22.14	0.269	24.29	4M53W7D
	3 MHz	QPSK	825.5 - 847.5	0.206	23.14	0.338	25.29	2M71G7D
		16QAM	825.5 - 847.5	0.165	22.18	0.271	24.33	2M71W7D
	1.4 MHz	QPSK	824.7 - 848.3	0.201	23.04	0.330	25.19	1M10G7D
		16QAM	824.7 - 848.3	0.168	22.25	0.275	24.40	1M11W7D
NR Band n5	20 MHz	$\pi/2$ BPSK	834.0 - 839.0	0.144	21.59	0.237	23.74	18M1G7D
		QPSK	834.0 - 839.0	0.133	21.22	0.217	23.37	19M1G7D
		16QAM	834.0 - 839.0	0.117	20.68	0.192	22.83	19M1W7D
	15 MHz	$\pi/2$ BPSK	831.5 - 841.5	0.143	21.57	0.235	23.72	13M5G7D
		QPSK	831.5 - 841.5	0.132	21.19	0.216	23.34	14M2G7D
		16QAM	831.5 - 841.5	0.120	20.79	0.197	22.94	14M2W7D
	10 MHz	$\pi/2$ BPSK	829.0 - 844.0	0.141	21.49	0.231	23.64	9M07G7D
		QPSK	829.0 - 844.0	0.132	21.21	0.217	23.36	9M37G7D
		16QAM	829.0 - 844.0	0.109	20.39	0.180	22.54	9M35W7D
	5 MHz	$\pi/2$ BPSK	826.5 - 846.5	0.142	21.53	0.233	23.68	4M50G7D
		QPSK	826.5 - 846.5	0.133	21.23	0.218	23.38	4M50G7D
		16QAM	826.5 - 846.5	0.116	20.64	0.190	22.79	4M52W7D

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Tablet FCC ID: A3LSMX736B**. 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 22 and RSS-132.

Test Device Serial No.: 19737, 19331, 19315, 19273, 27060, 26013, 72199, 72207

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/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), Digitizer

2.3 Test Configuration

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

2.4 Duty Cycle Information

For all 5G NR and LTE operations in FDD mode, the EUT duty cycle was set to 100%.

2.5 Software and Firmware

Testing was performed on device(s) using software/firmware version X736BXXU0AUF8 installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

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

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

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

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

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

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

And

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

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

Table 4-1. Measurement Uncertainty Budget

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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	LTX5	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTX5
-	AP2	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2
-	ETS	Conducted Cable Set (40GHz)	4/2/2024	Annual	2/25/2026	ETS
-	AP1	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP1
Anritsu	MT8820C	Radio Communication Analyzer	N/A			6201240328
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
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	10/16/2024	Annual	10/16/2025	100348
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Sunol	DRH-118	Horn Antenna (1-18GHz)	2/21/2024	Biennial	2/21/2026	A050307

Table 5-1. Test Equipment Calibration Table

Notes:

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

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6.0 SAMPLE EMISSION DESIGNATORS

GSM Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 250KG7W

EDGE BW = 250 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMX736B
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): GSM/GPRS/WCDMA/NR/LTE

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.2
	Conducted Band Edge / Spurious Emissions	2.1051, 22.917(a)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Sections 7.3, 7.4
	Frequency Stability	2.1055, 22.355	The carrier frequency of the transmitter must be maintained within the 2.5ppm	PASS	Section 7.7
RADIATED	Effective Radiated Power / Equivalent Isotropic Radiated Power	22.913(a)(5)	< 7 Watts max. ERP	PASS	Section 7.5
	Radiated Spurious Emissions	2.1053, 22.917(a)	$> 43 + 10 \log_{10} (P[\text{Watts}])$ for all out-of-band emissions	PASS	Section 7.6

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.3.0.

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7.2 Occupied Bandwidth

Test Overview

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

Test Procedure Used

ANSI C63.26-2015 – Section 5.4.4

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

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

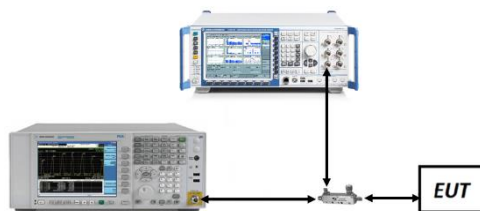


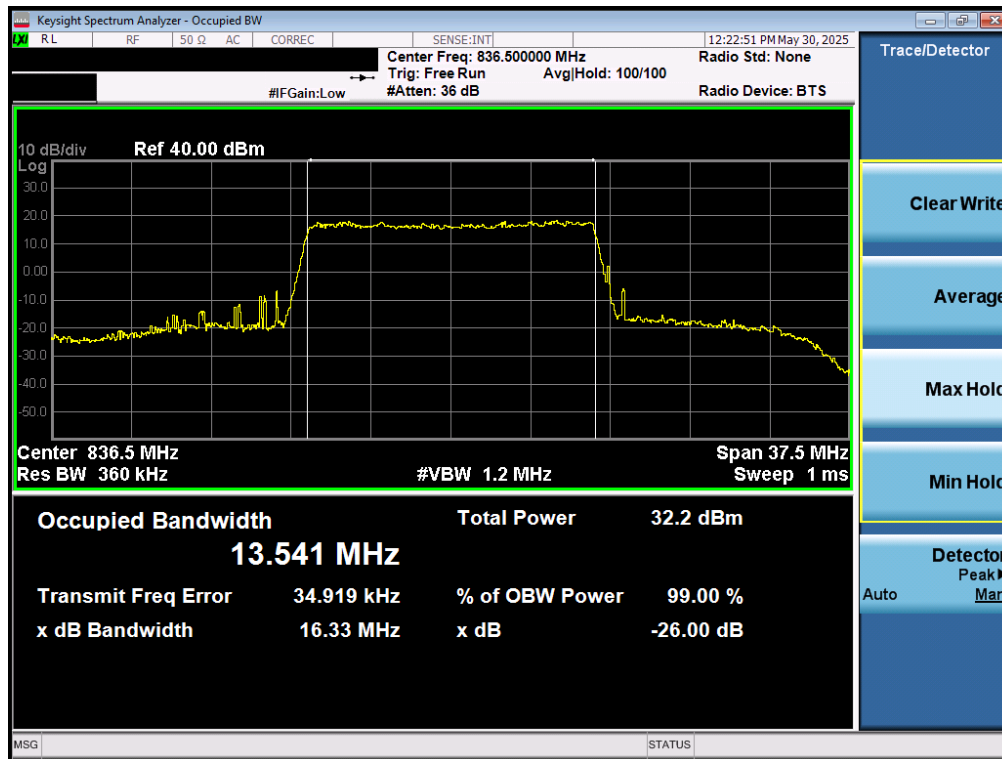
Figure 7-1. Test Instrument & Measurement Setup

Test Notes

None.

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LTE Band 26/5

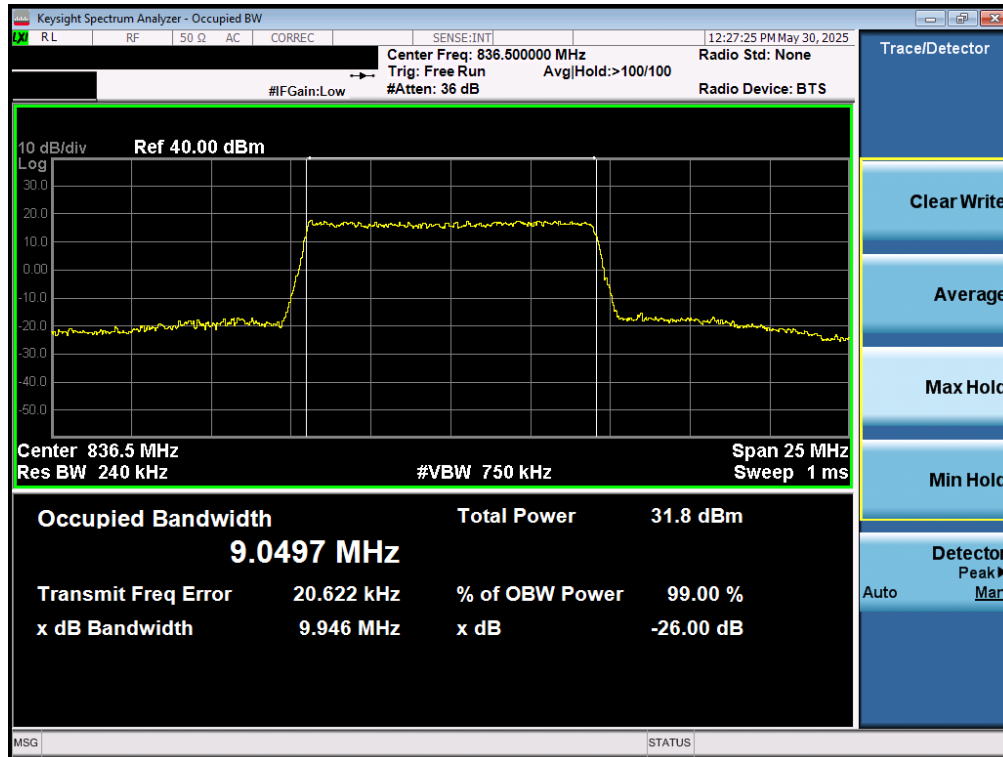


Plot 7-1. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB)



Plot 7-2. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB)

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Plot 7-3. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz QPSK - Full RB)

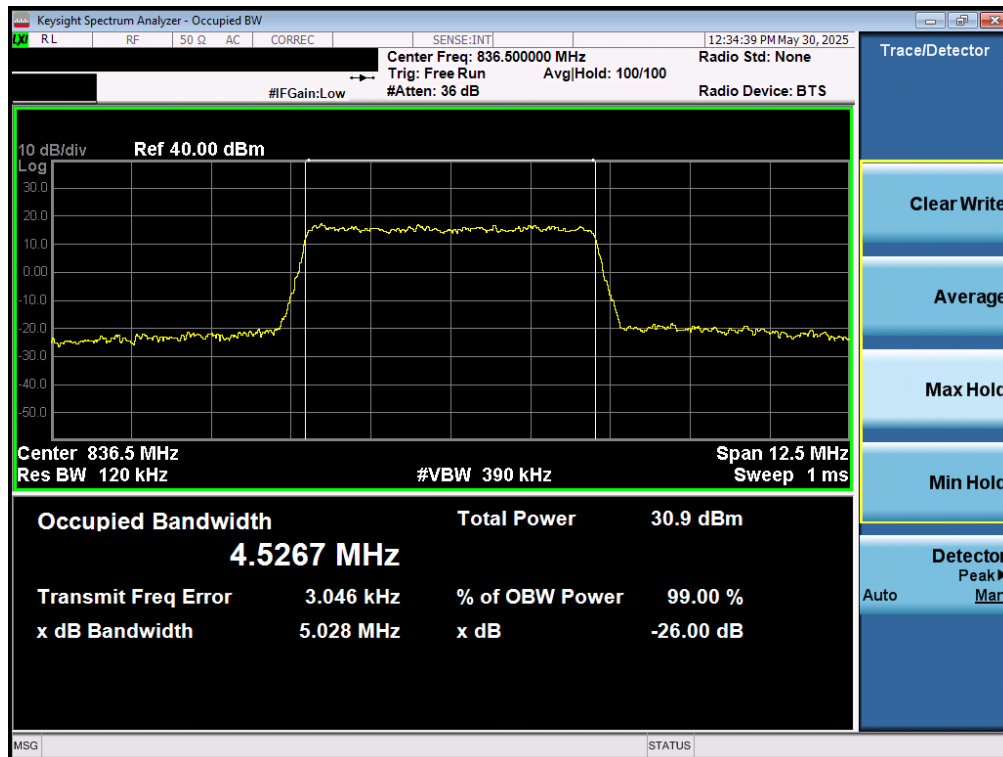


Plot 7-4. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz 16-QAM - Full RB)

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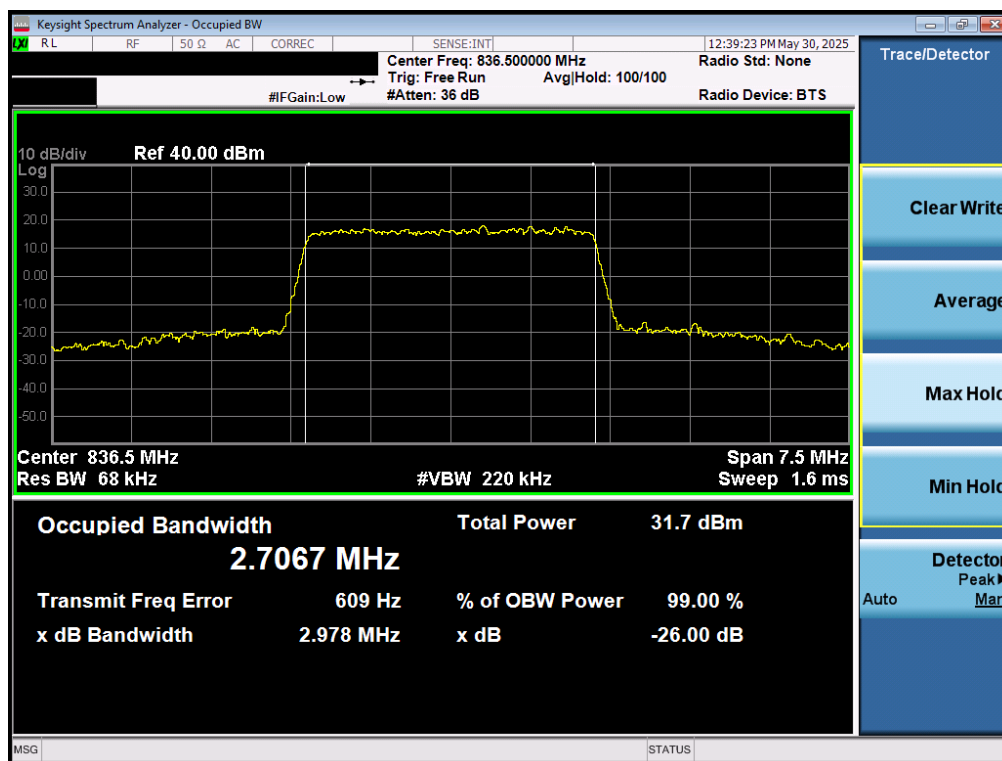


Plot 7-5. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz QPSK - Full RB)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz 16-QAM - Full RB)

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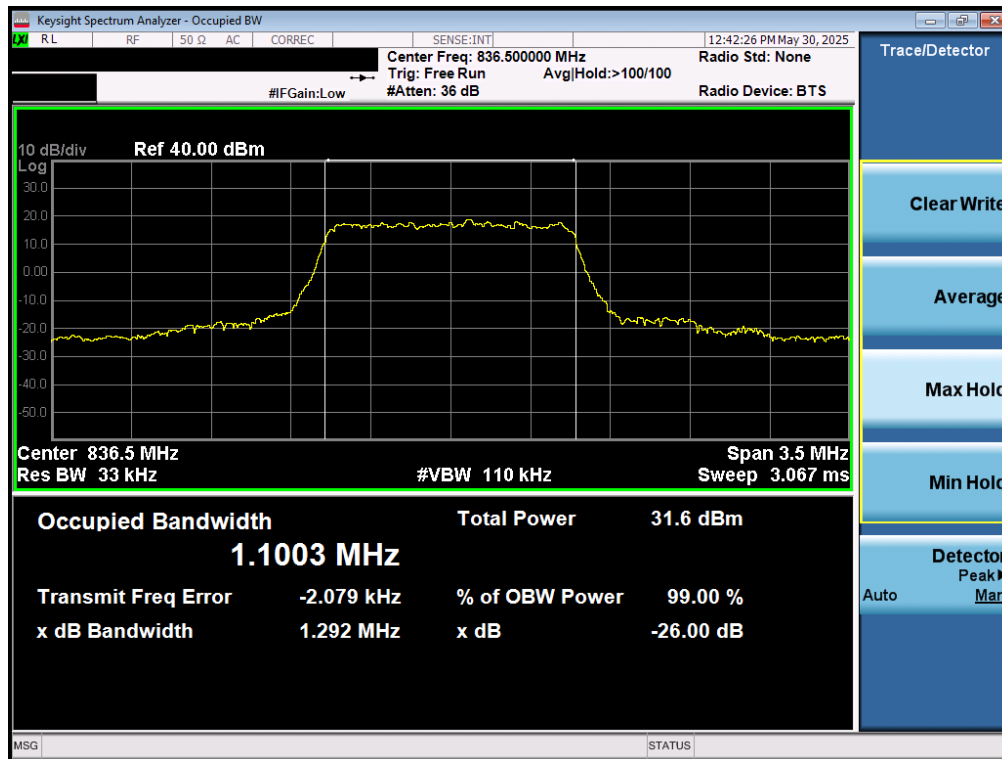


Plot 7-7. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz QPSK - Full RB)

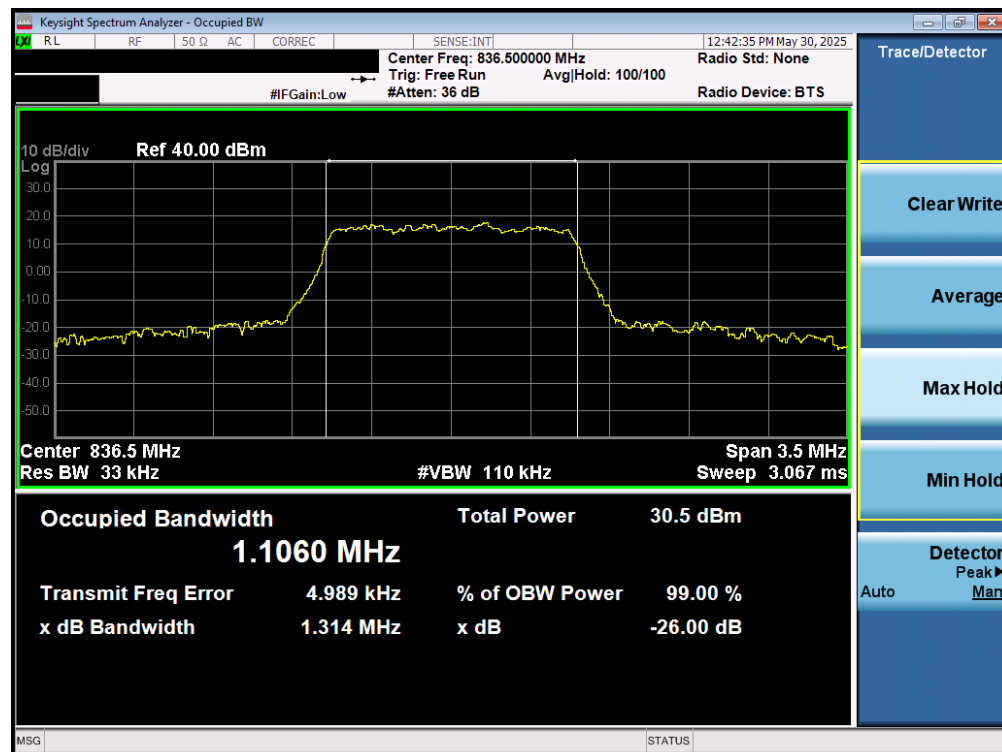


Plot 7-8. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz 16-QAM - Full RB)

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Plot 7-9. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB)



Plot 7-10. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz 16-QAM - Full RB)

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NR Band n5

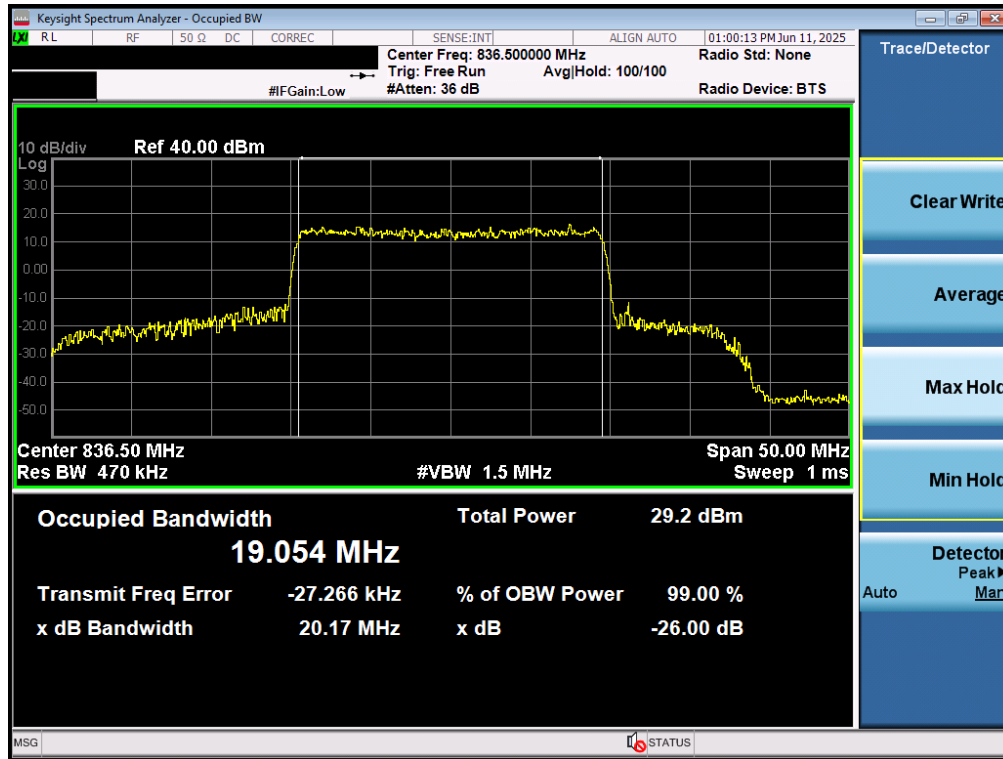


Plot 7-11. Occupied Bandwidth Plot (NR Band n5 - 20MHz $\pi/2$ BPSK - Full RB)

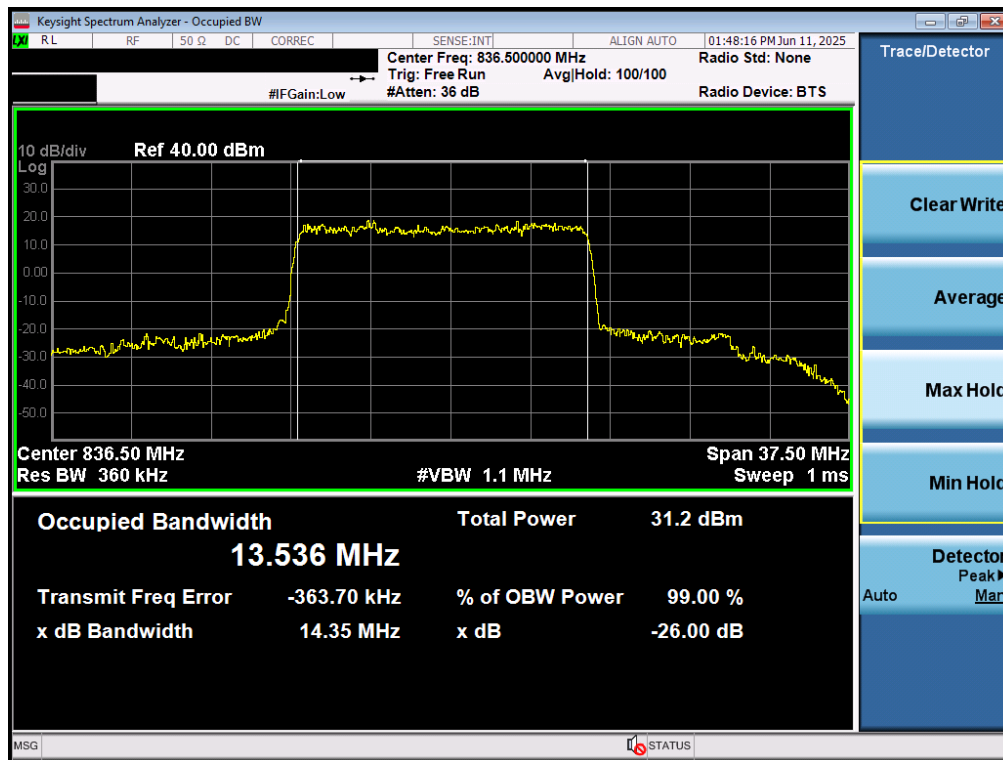


Plot 7-12. Occupied Bandwidth Plot (NR Band n5 - 20MHz QPSK - Full RB)

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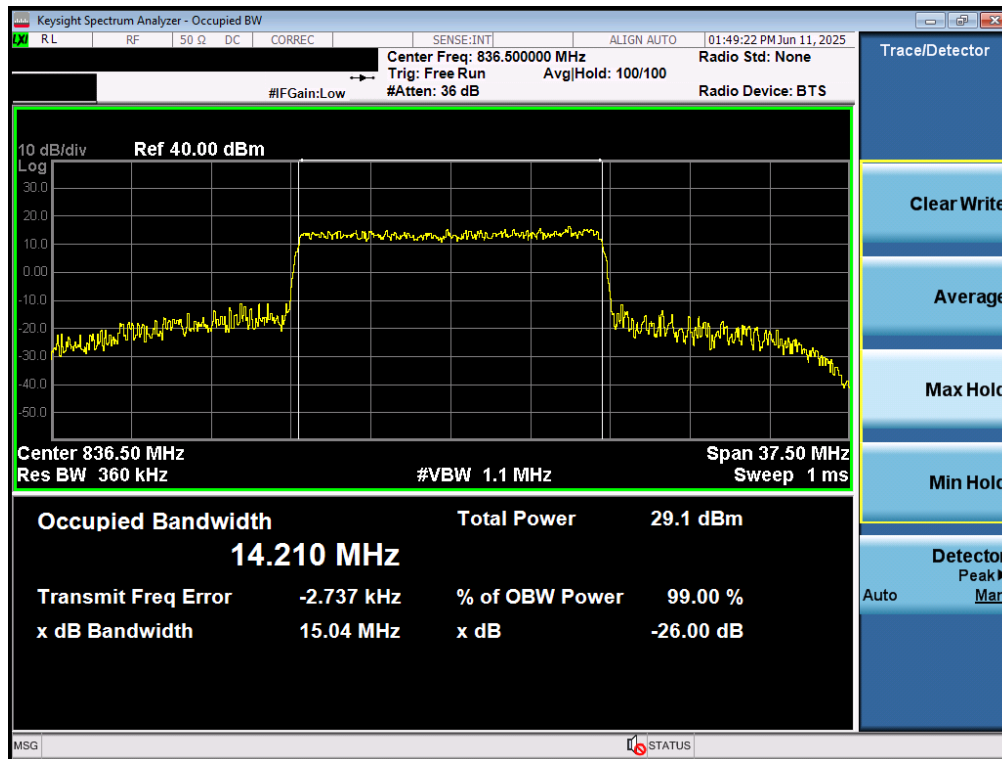


Plot 7-13. Occupied Bandwidth Plot (NR Band n5 - 20MHz 16-QAM - Full RB)

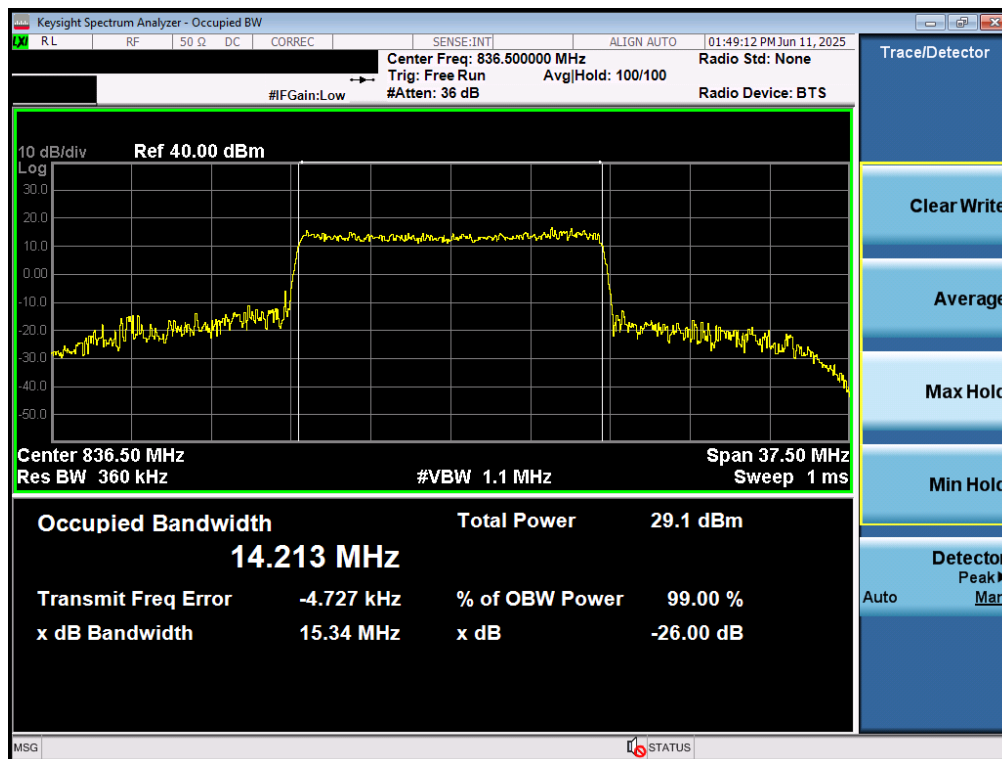


Plot 7-14. Occupied Bandwidth Plot (NR Band n5 - 15MHz $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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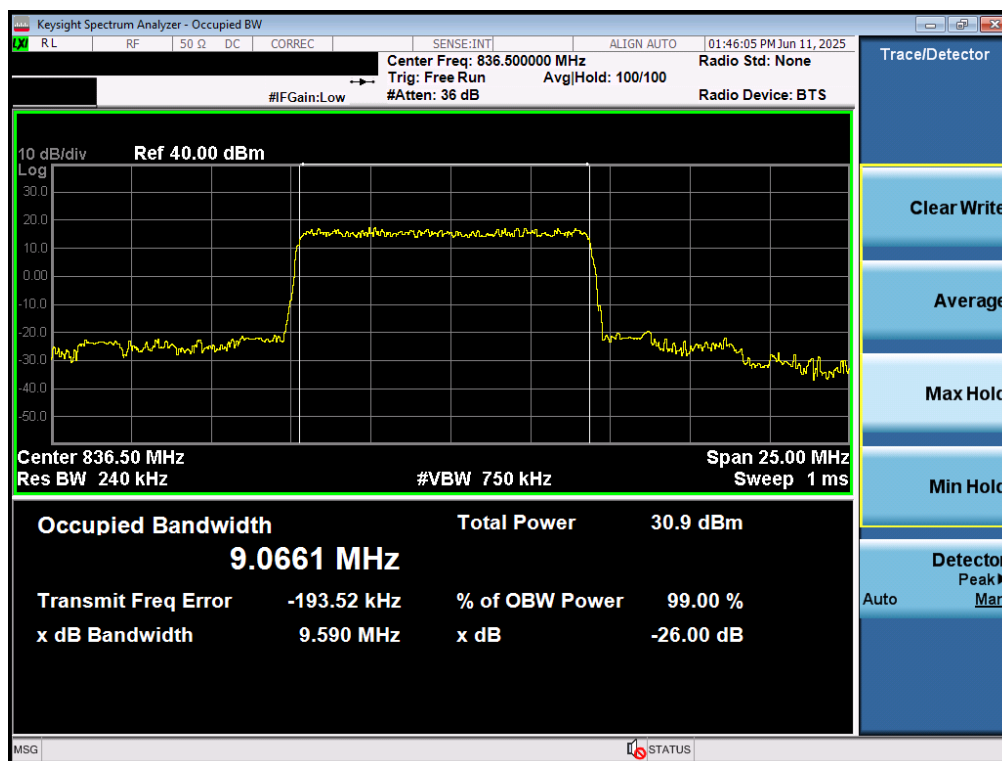


Plot 7-15. Occupied Bandwidth Plot (NR Band n5 - 15MHz QPSK - Full RB)

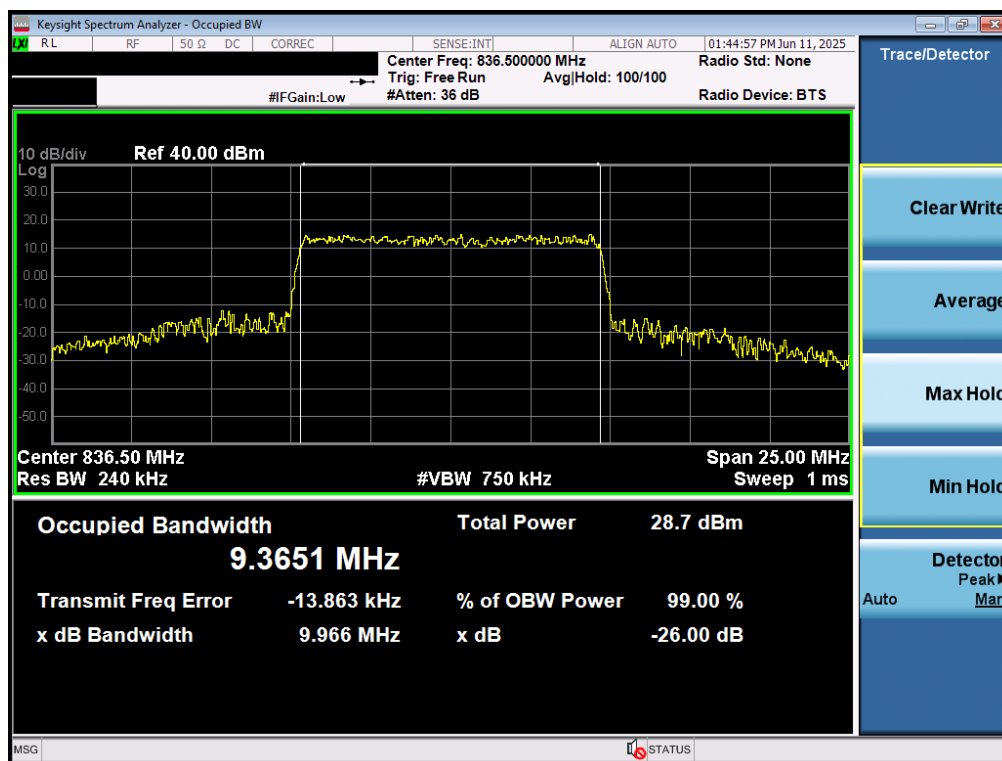


Plot 7-16. Occupied Bandwidth Plot (NR Band n5 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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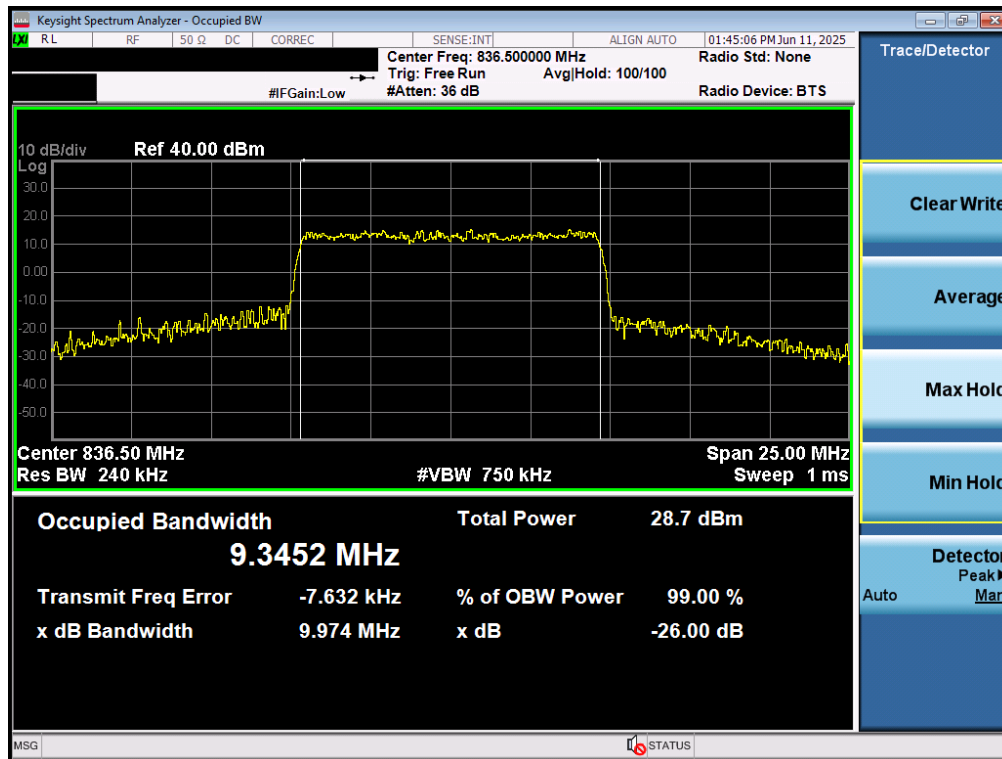


Plot 7-17. Occupied Bandwidth Plot (NR Band n5 - 10MHz $\pi/2$ BPSK - Full RB)

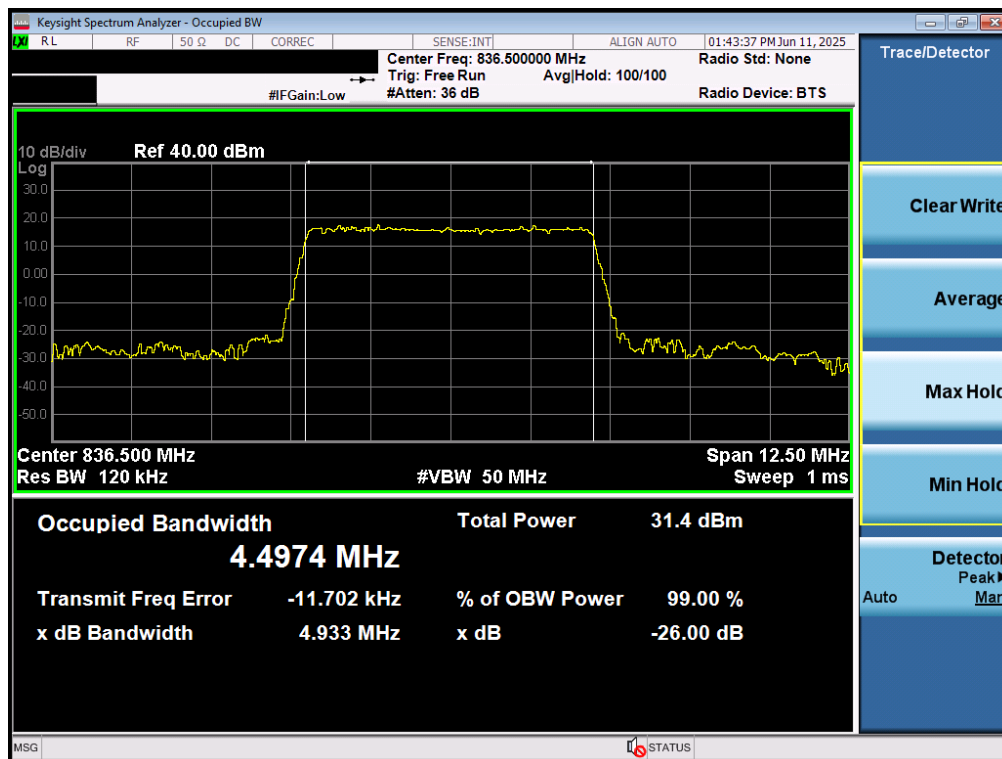


Plot 7-18. Occupied Bandwidth Plot (NR Band n5 - 10MHz QPSK - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-19. Occupied Bandwidth Plot (NR Band n5 - 10MHz 16-QAM - Full RB)



Plot 7-20. Occupied Bandwidth Plot (NR Band n5 - 5MHz $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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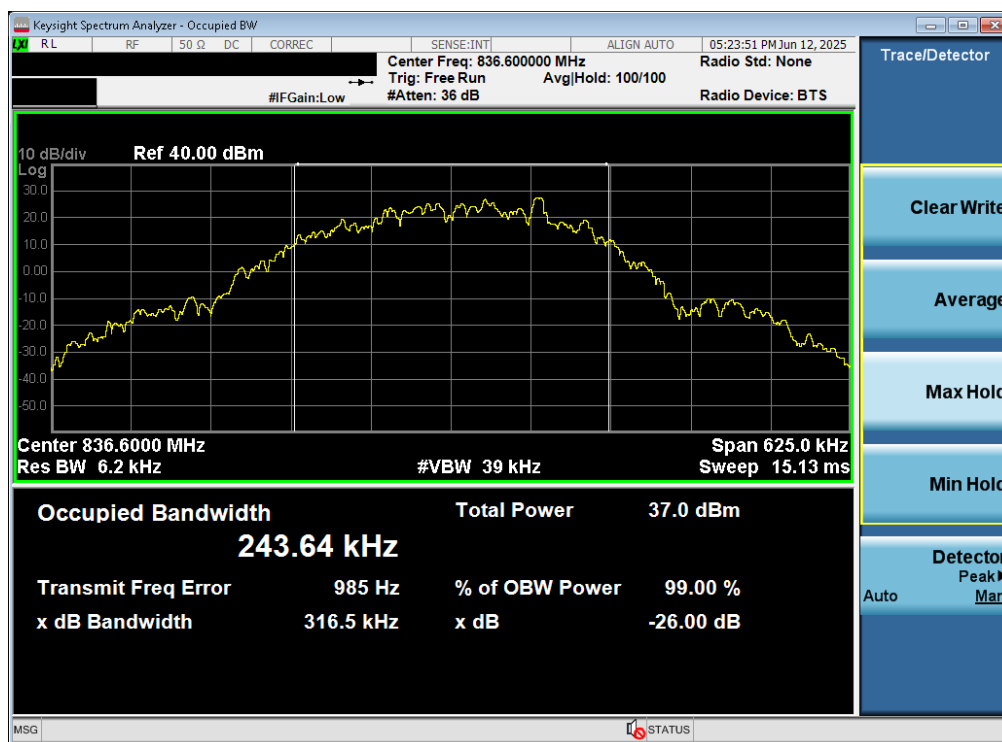
Plot 7-21. Occupied Bandwidth Plot (NR Band n5 - 5MHz QPSK - Full RB)



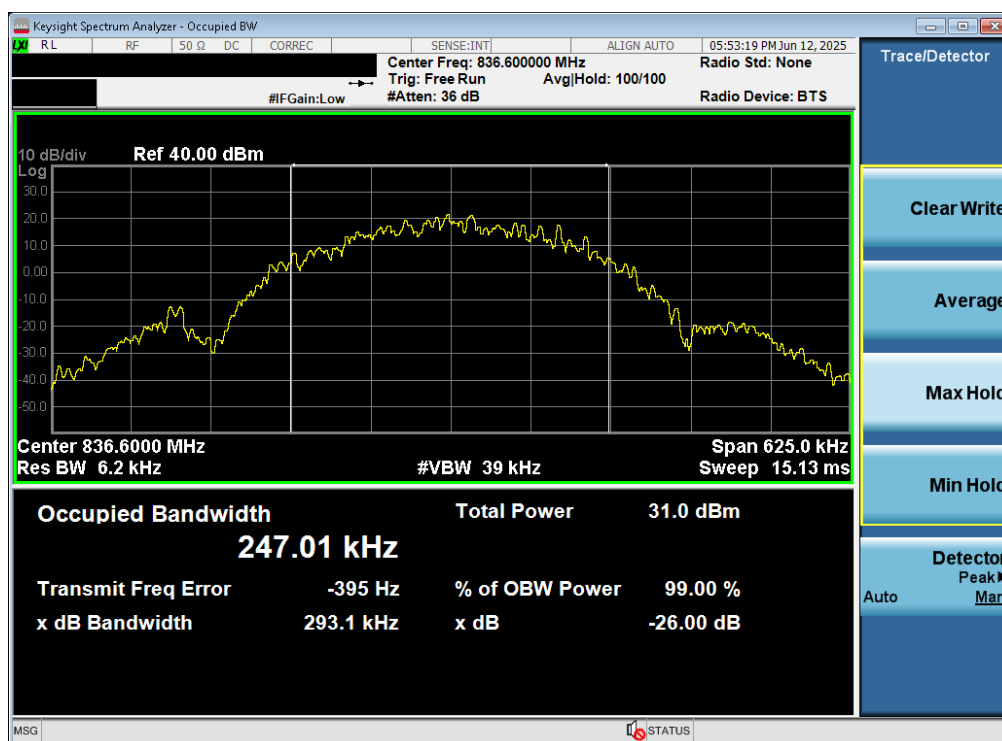
Plot 7-22. Occupied Bandwidth Plot (NR Band n5 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 22 of 82

GPRS Cell



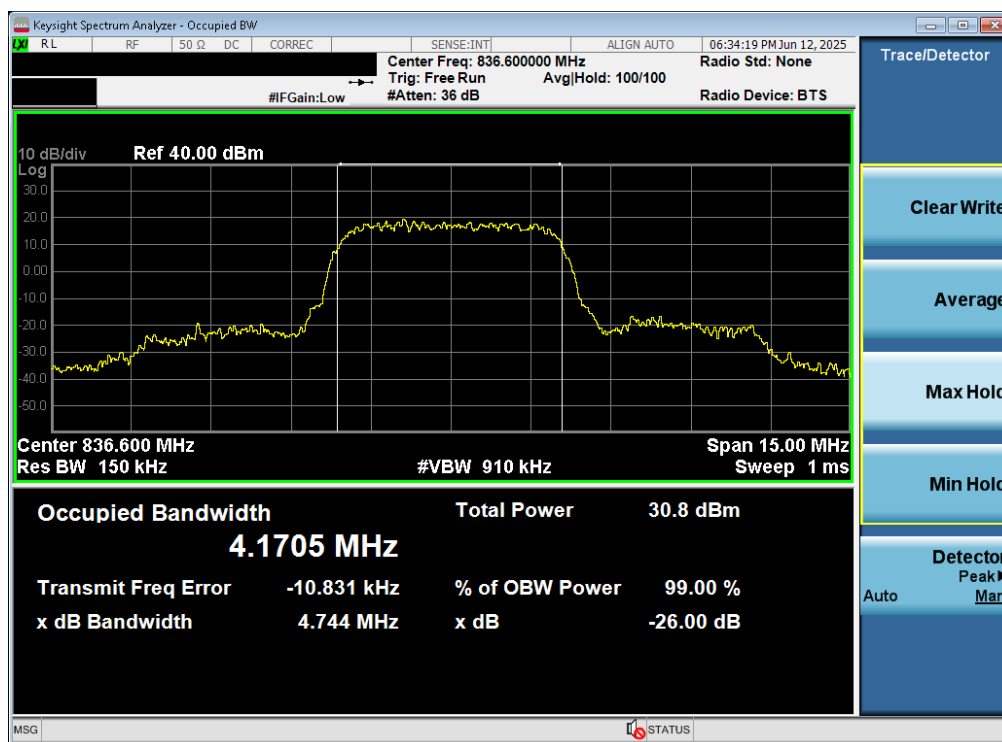
Plot 7-23. Occupied Bandwidth Plot (GPRS, Ch. 190)



Plot 7-24. Occupied Bandwidth Plot (EDGE, Ch. 190)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 23 of 82

WCDMA Cell



Plot 7-25. Occupied Bandwidth Plot (WCDMA, Ch. 4183)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 24 of 82

7.3 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

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

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

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

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

Test Setup

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

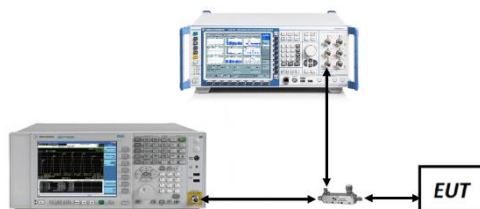


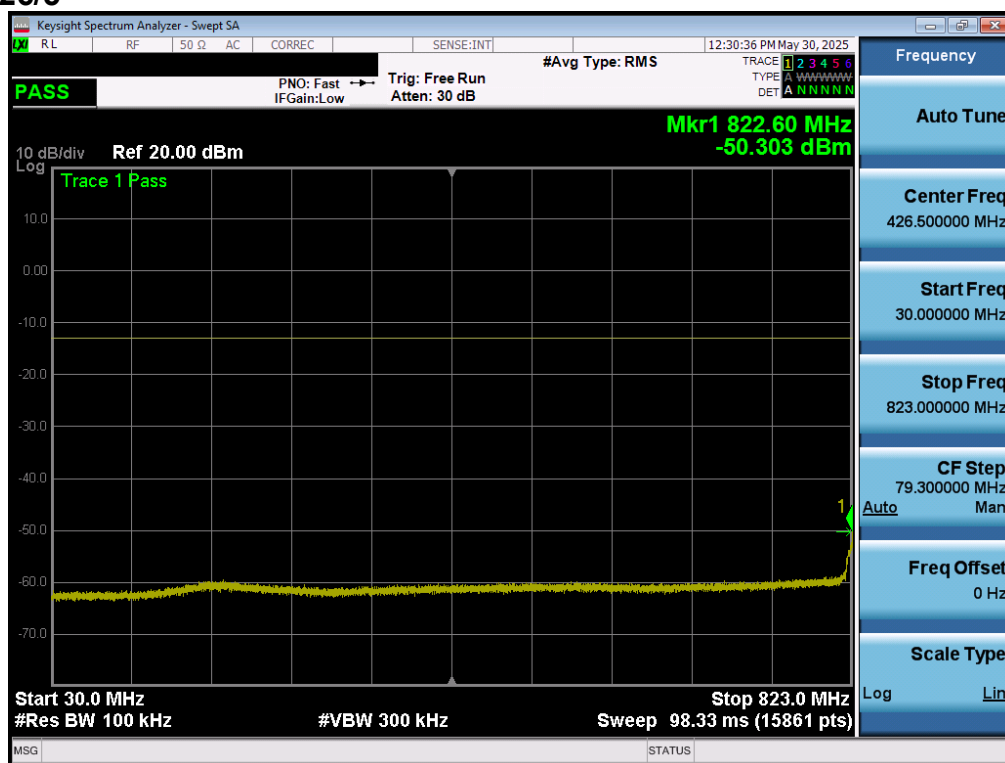
Figure 7-2. Test Instrument & Measurement Setup

Test Notes

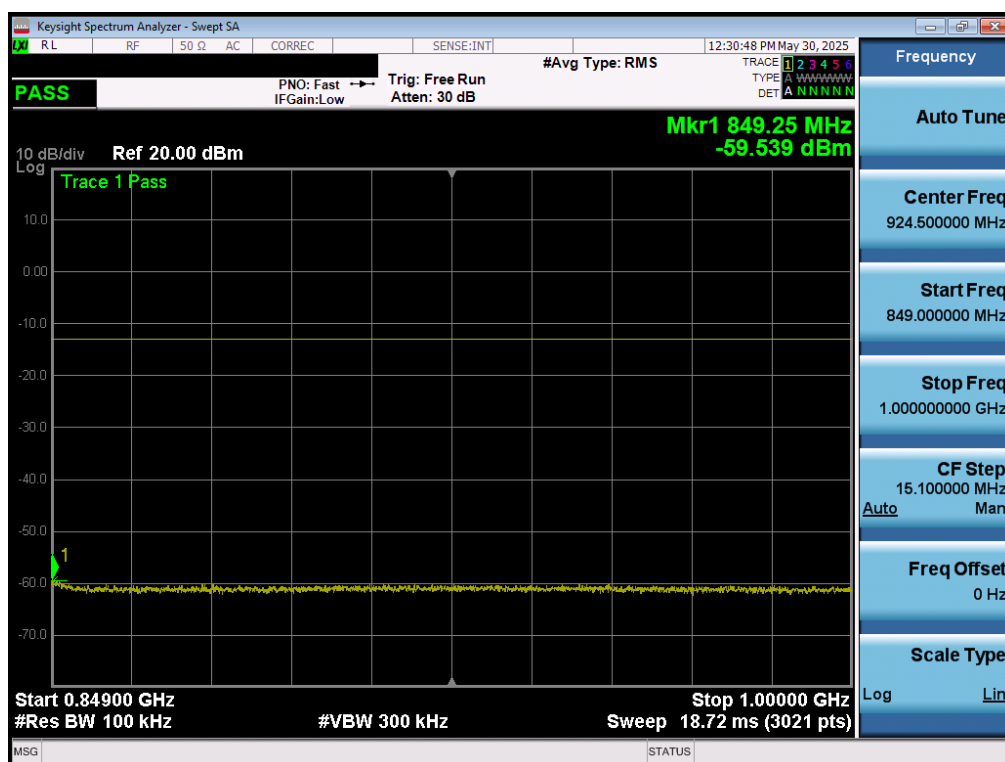
1. Per Part 22, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 26/5

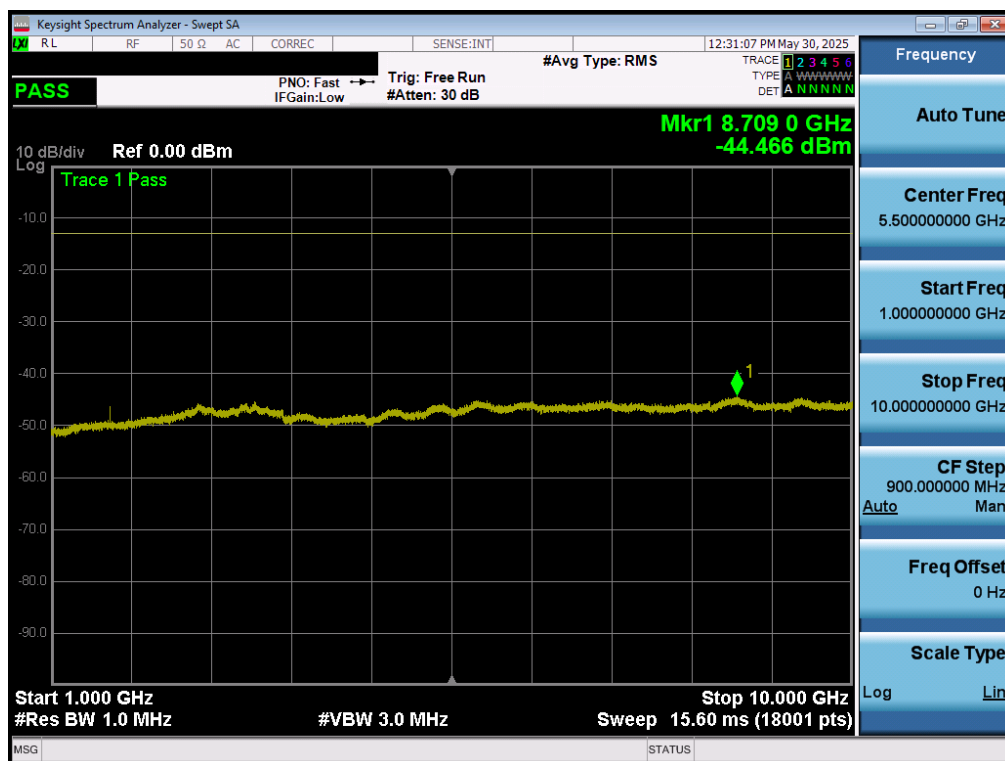


Plot 7-26. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK – 1 RB - Low Channel)

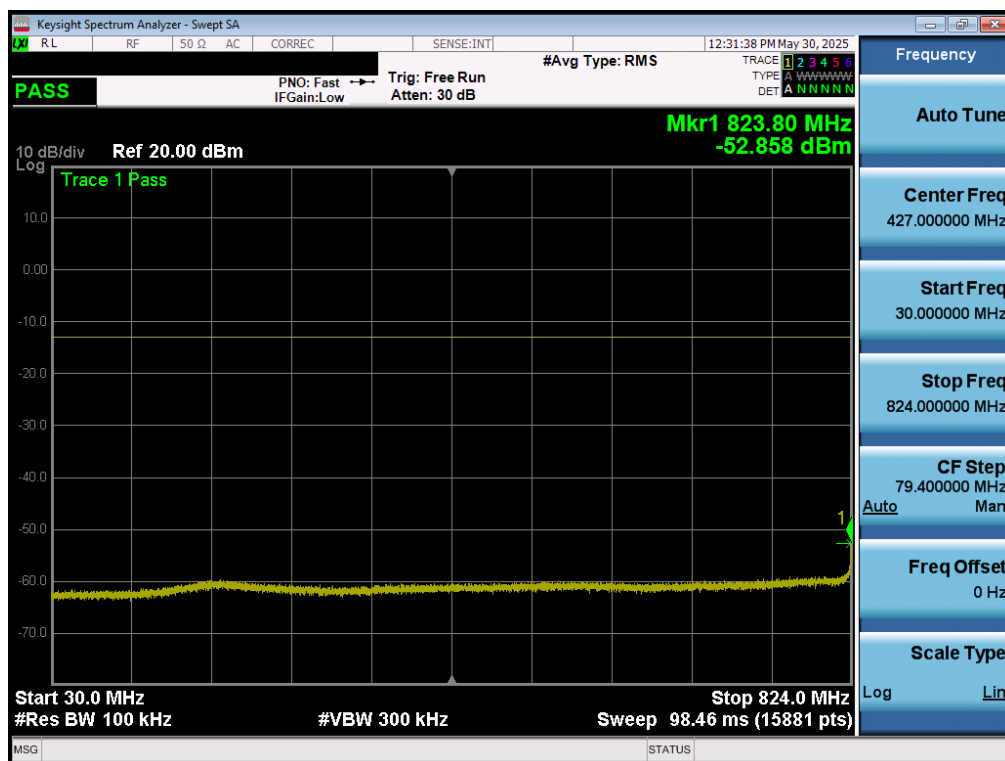


Plot 7-27. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Low Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 26 of 82

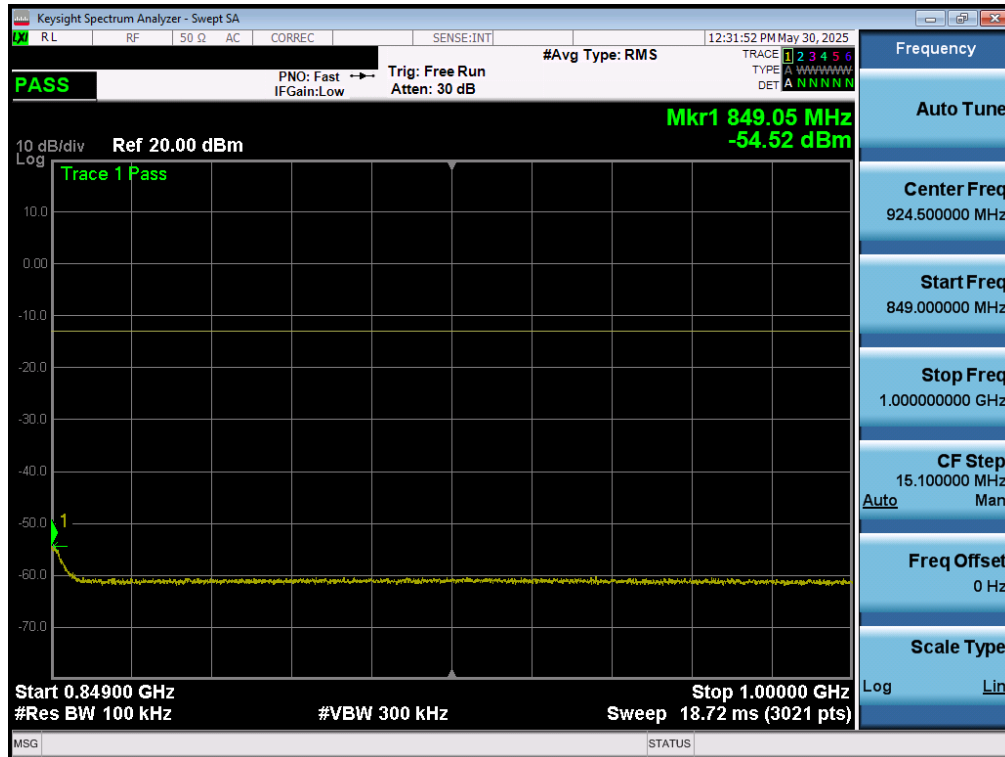


Plot 7-28. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Low Channel)

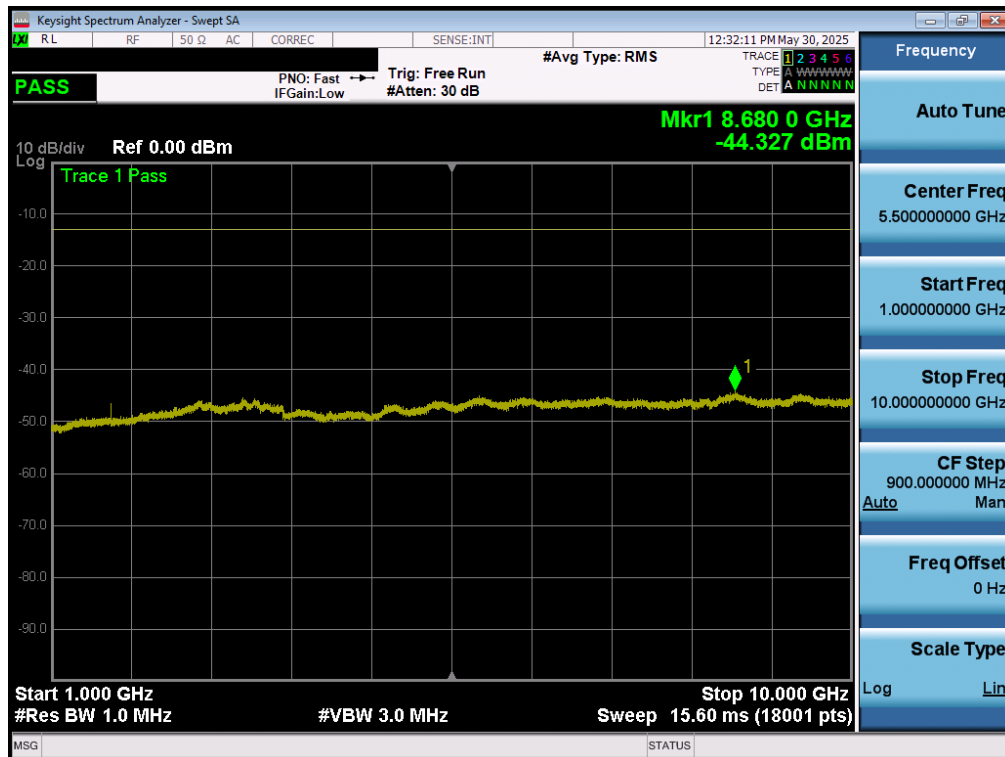


Plot 7-29. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Mid Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 27 of 82

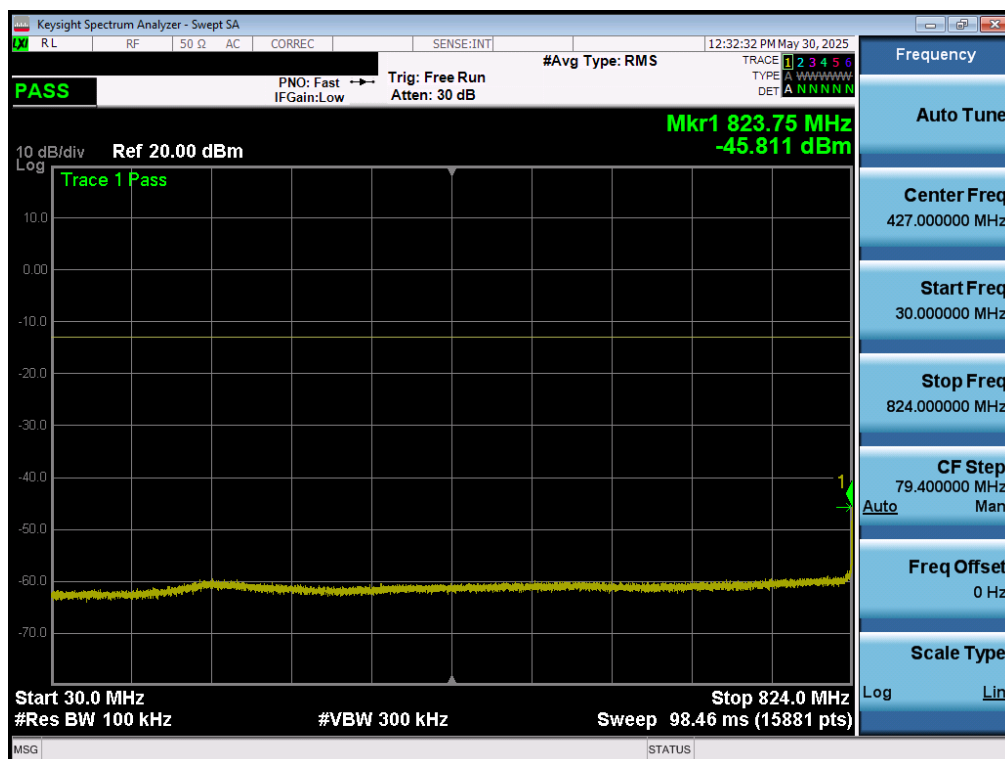


Plot 7-30. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Mid Channel)

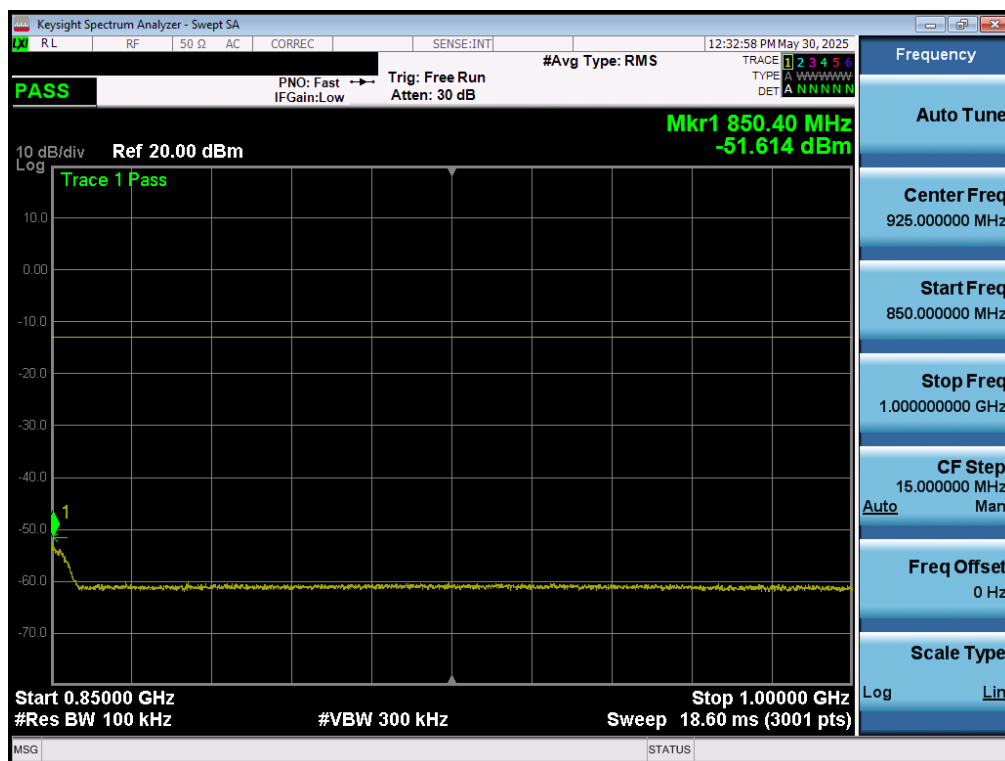


Plot 7-31. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Mid Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 28 of 82

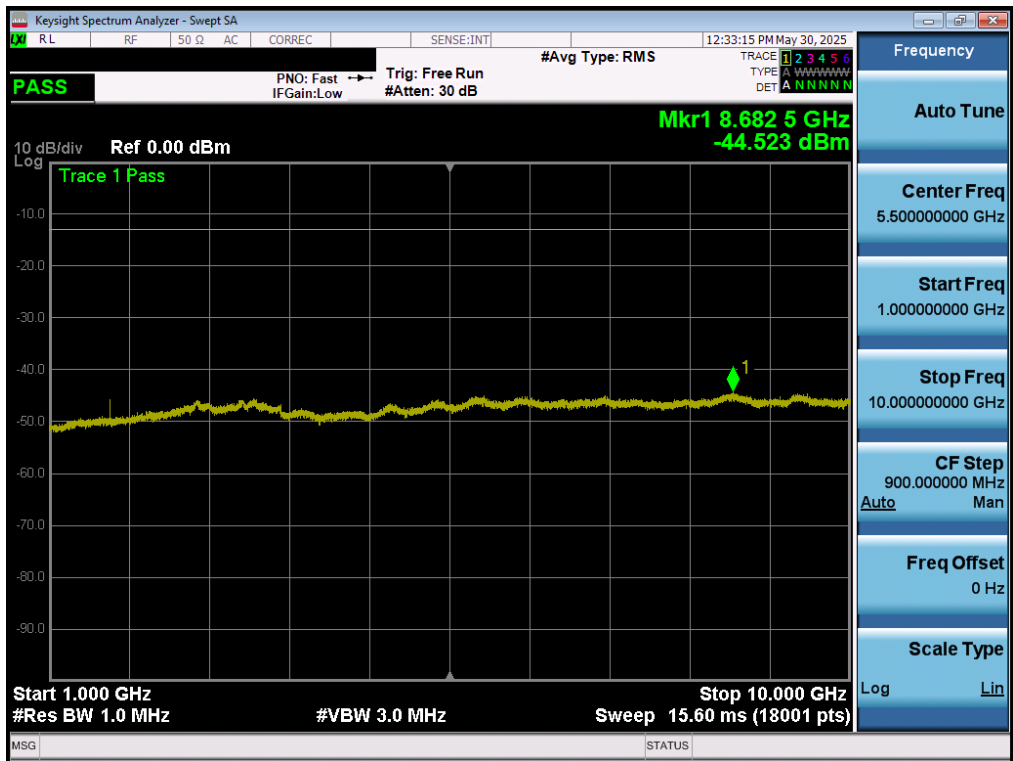


Plot 7-32. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - High Channel)



Plot 7-33. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - High Channel)

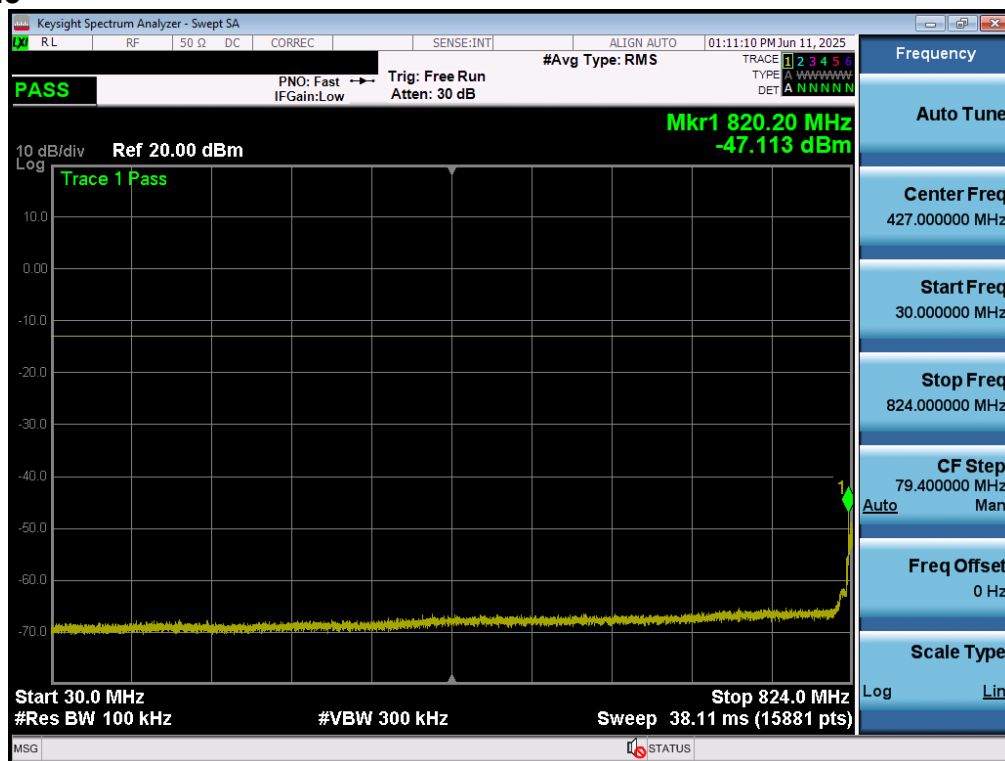
FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 29 of 82



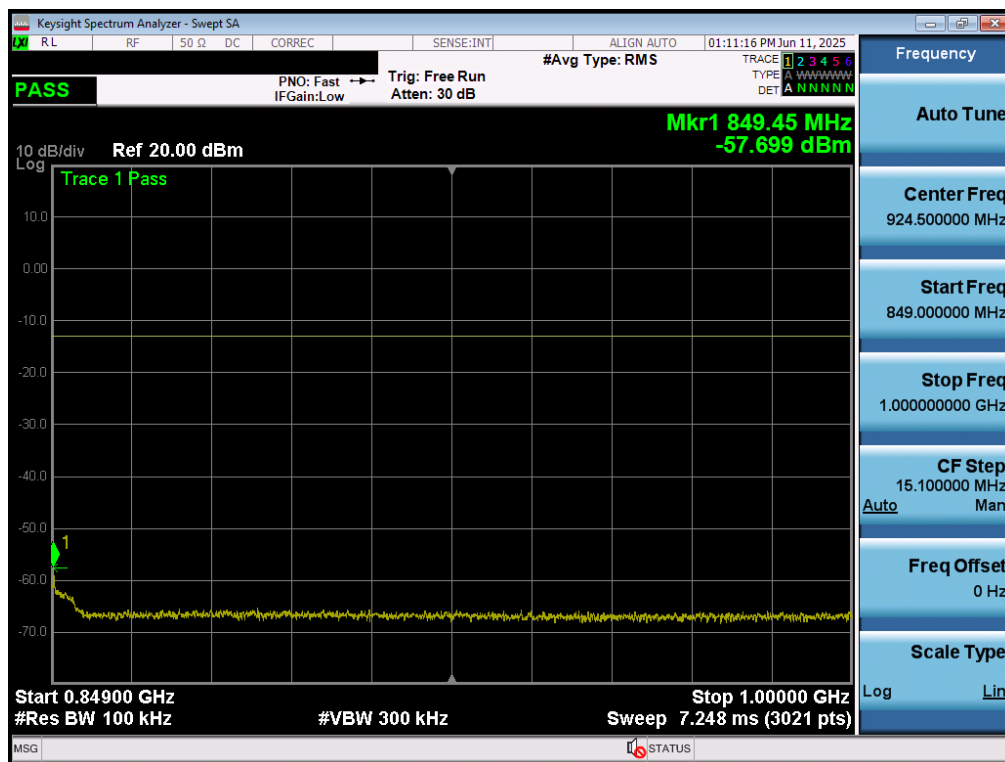
Plot 7-34. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - High Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 30 of 82

NR Band n5

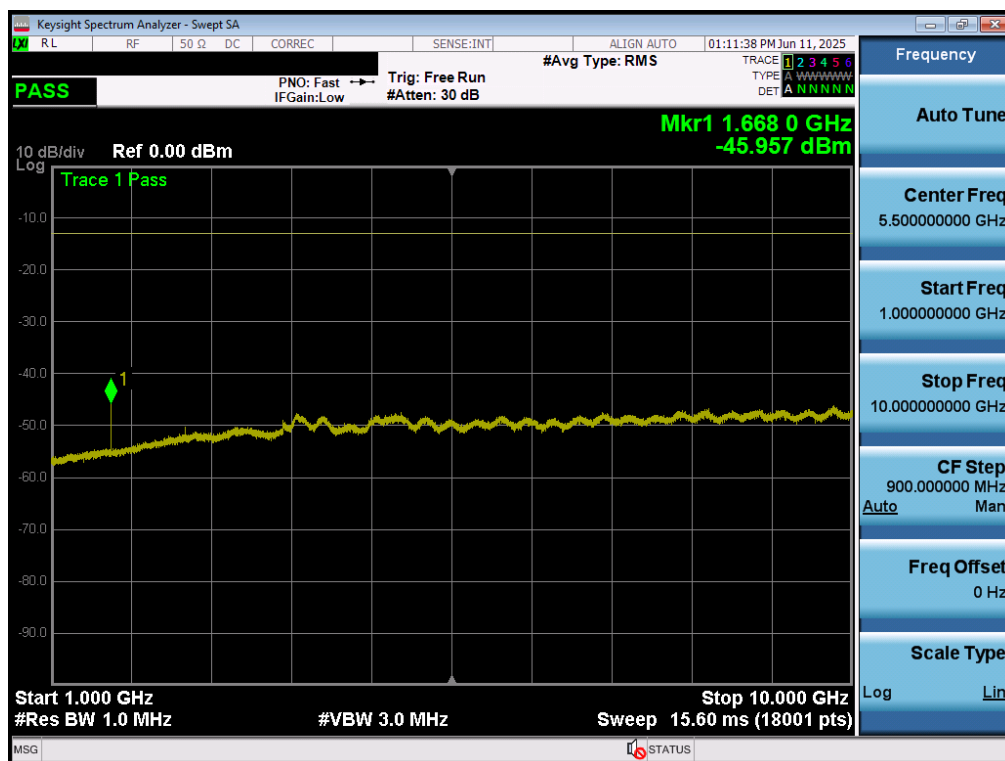


Plot 7-35. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel)

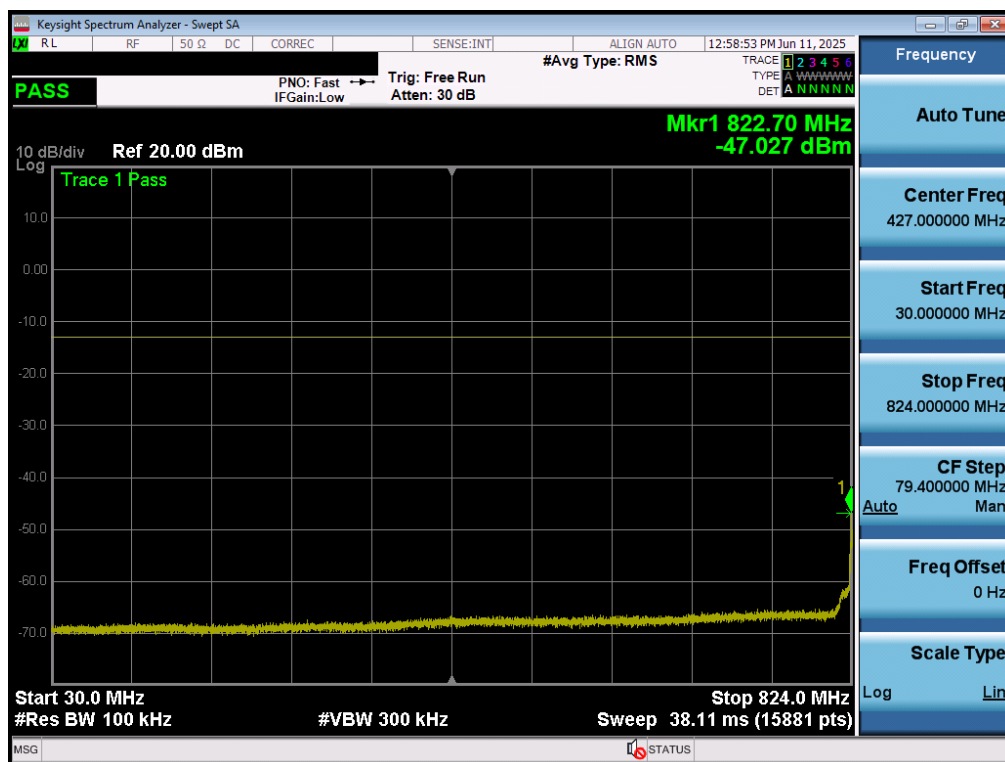


Plot 7-36. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 31 of 82

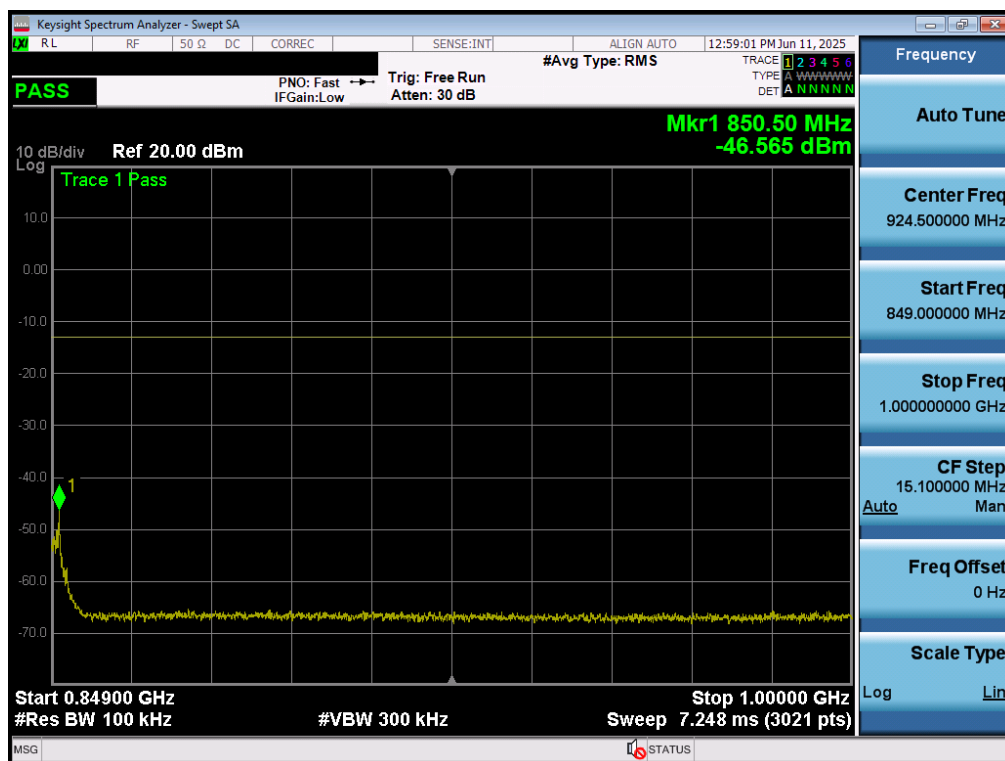


Plot 7-37. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel)

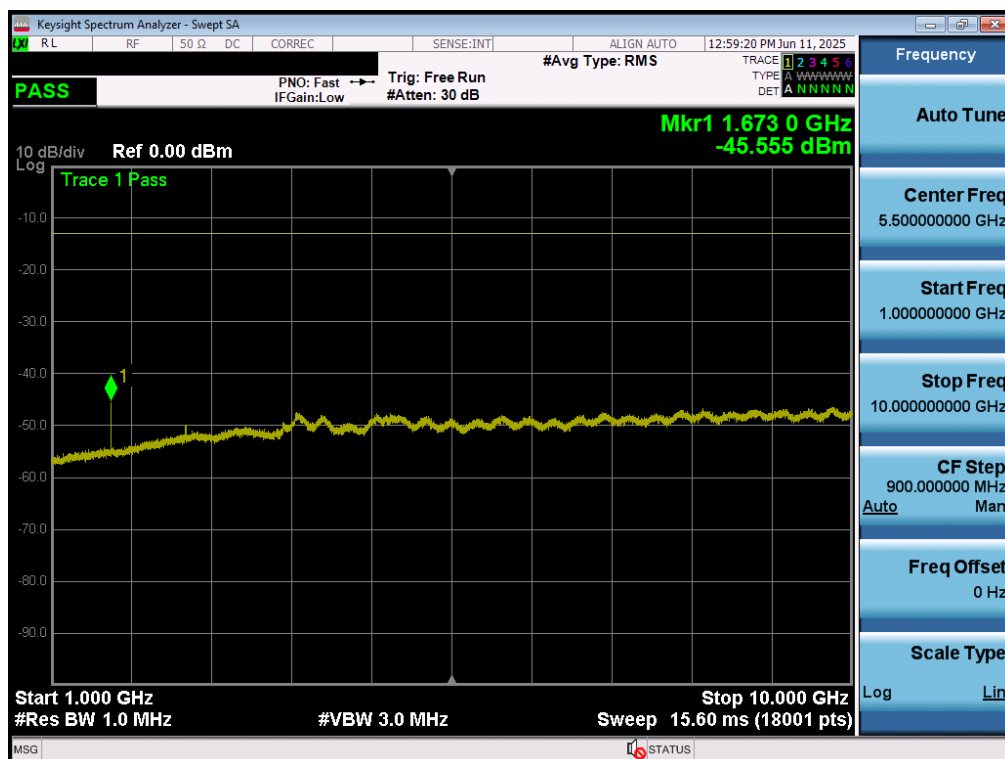


Plot 7-38. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 32 of 82

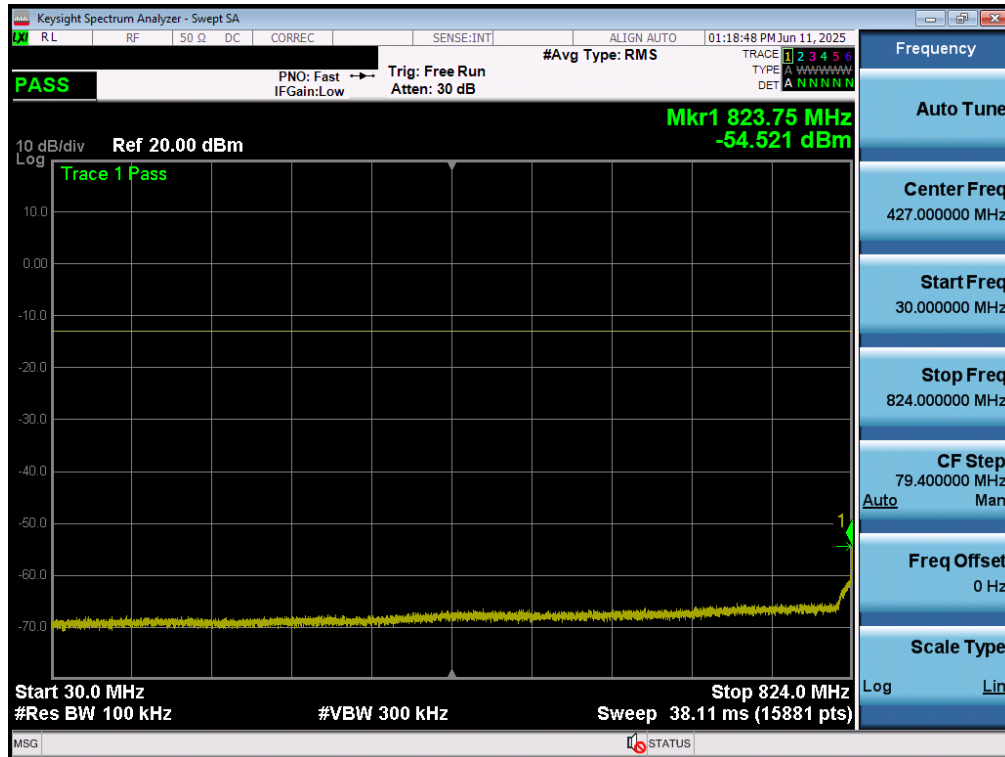


Plot 7-39. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel)

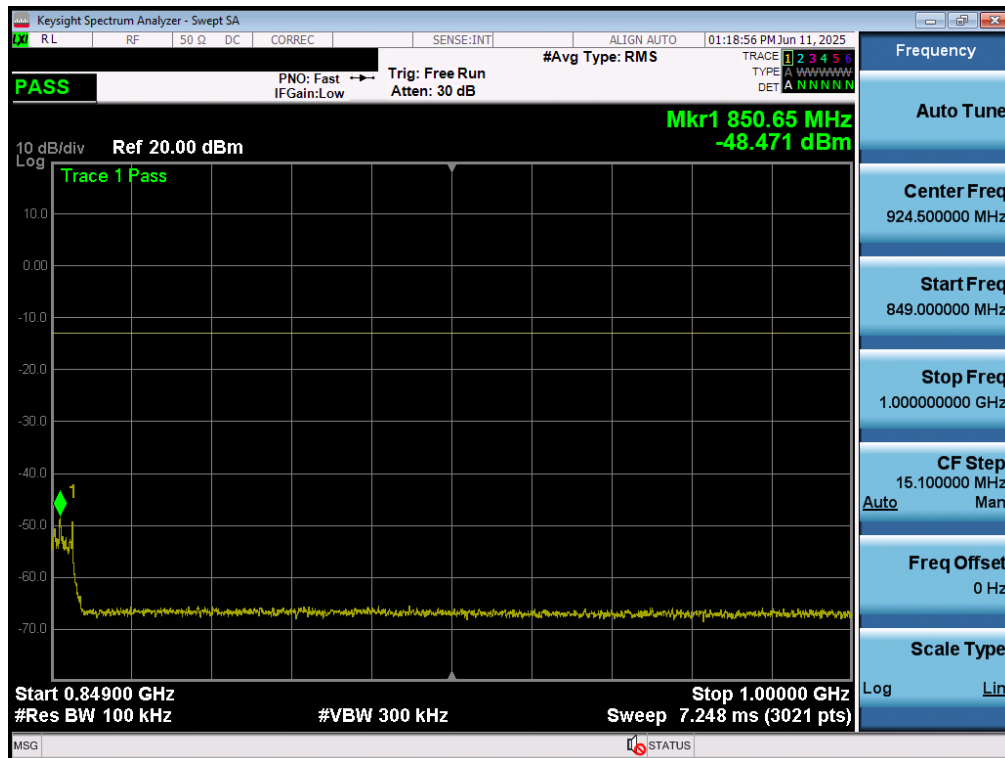


Plot 7-40. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 33 of 82

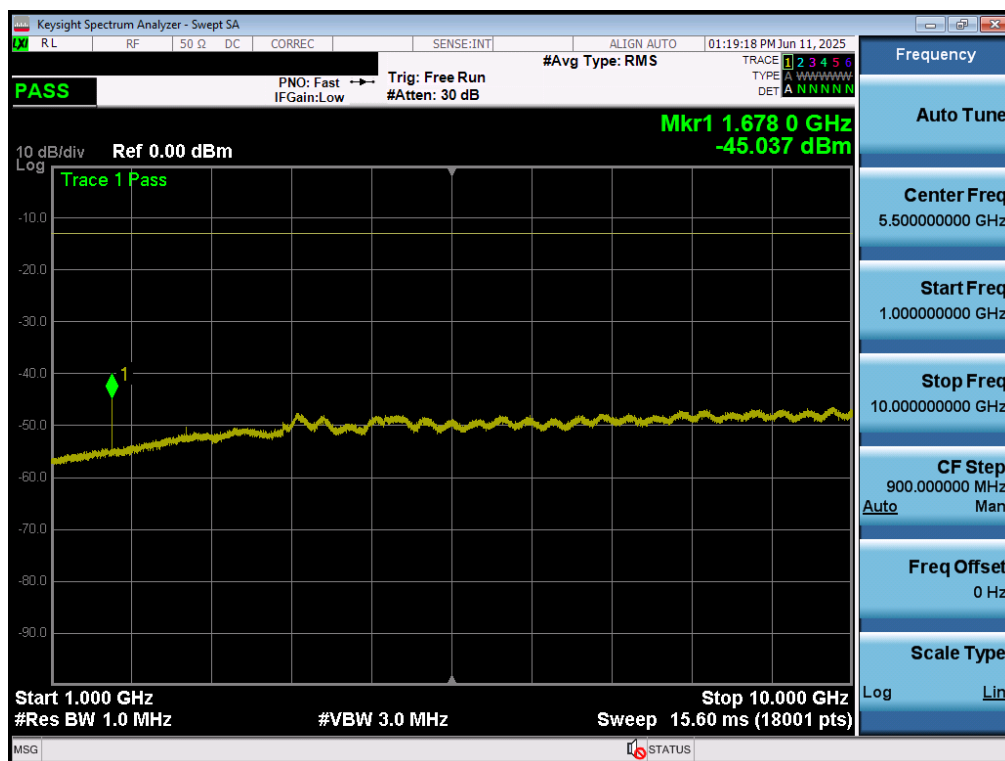


Plot 7-41. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel)



Plot 7-42. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel)

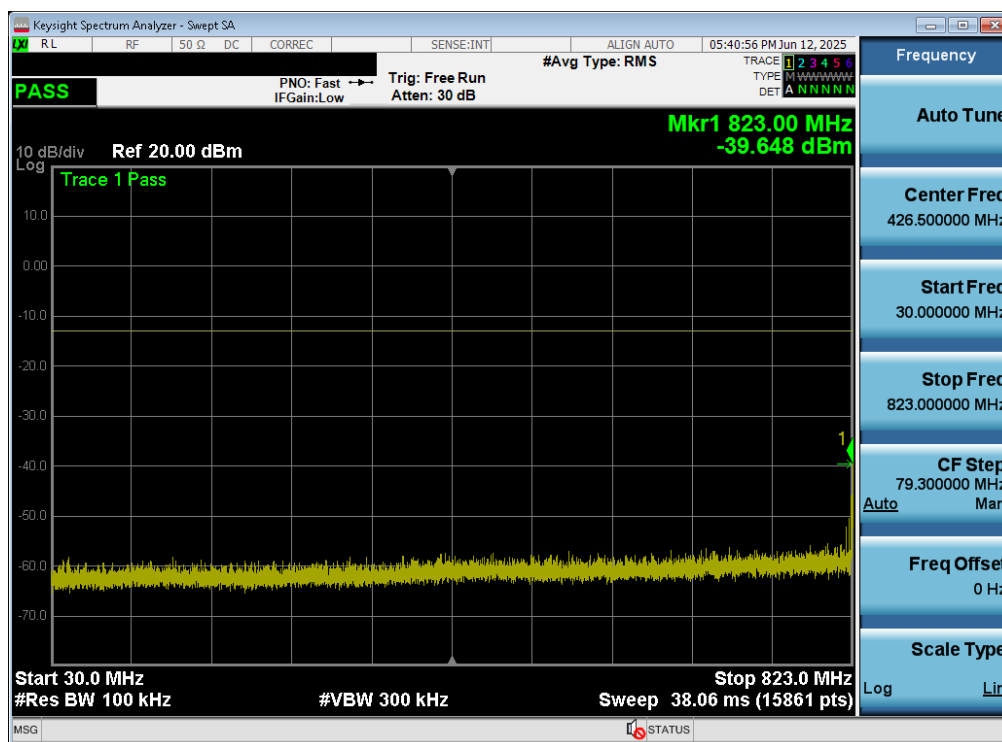
FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 34 of 82



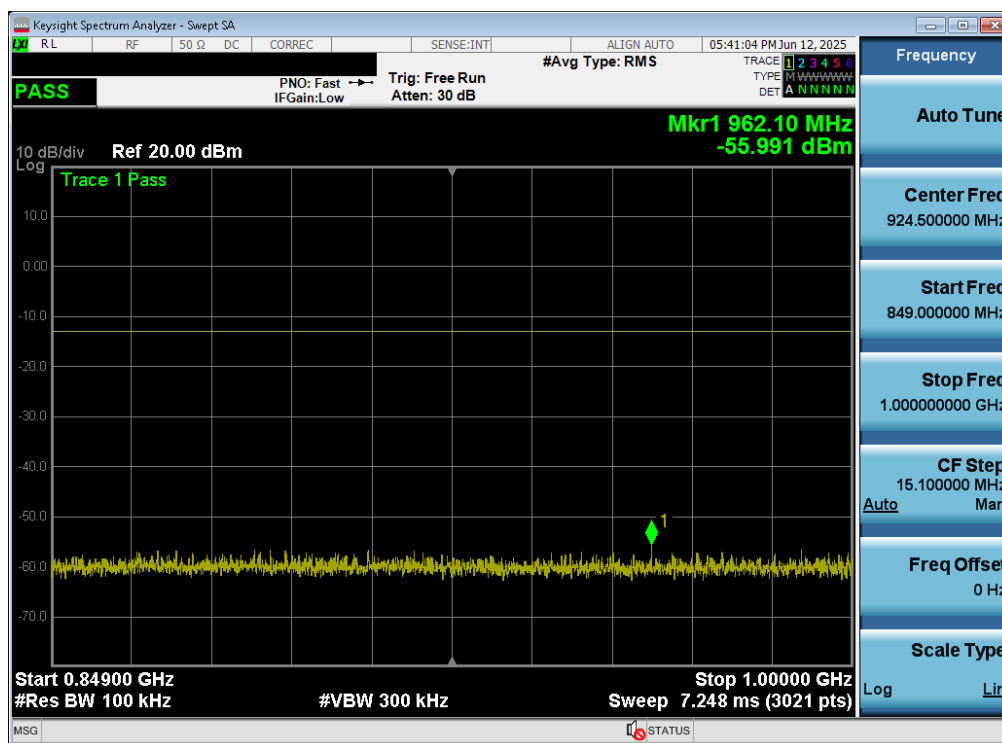
Plot 7-43. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 35 of 82

GSM/GPRS Cell

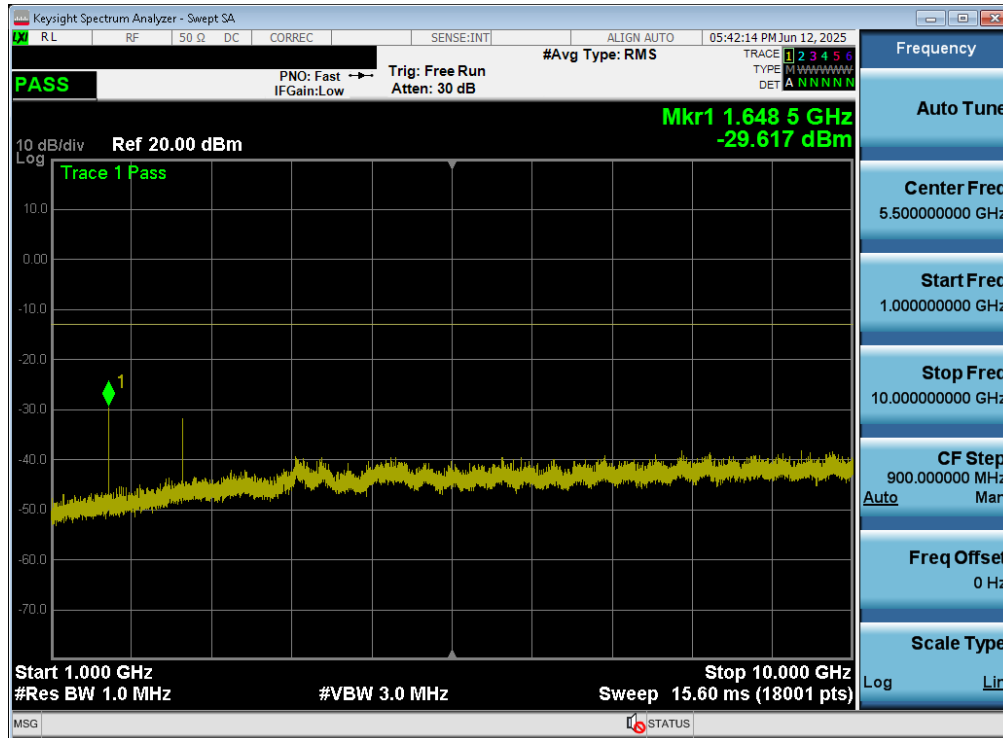


Plot 7-44. Conducted Spurious Plot (GPRS Ch. 128)

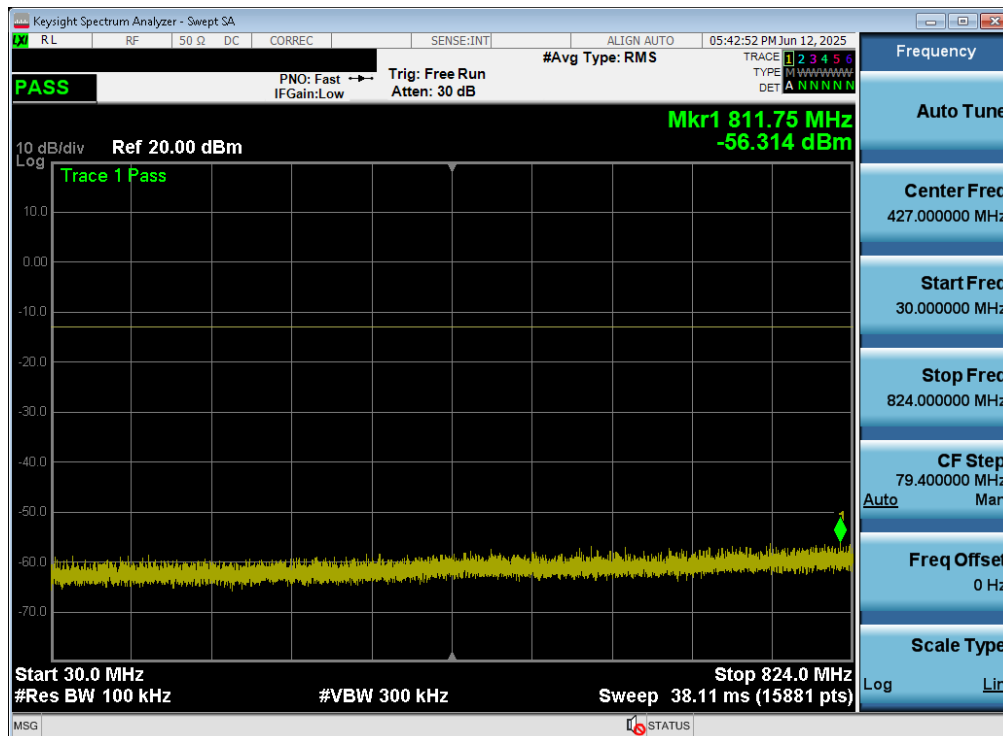


Plot 7-45. Conducted Spurious Plot (GPRS Ch. 128)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 36 of 82

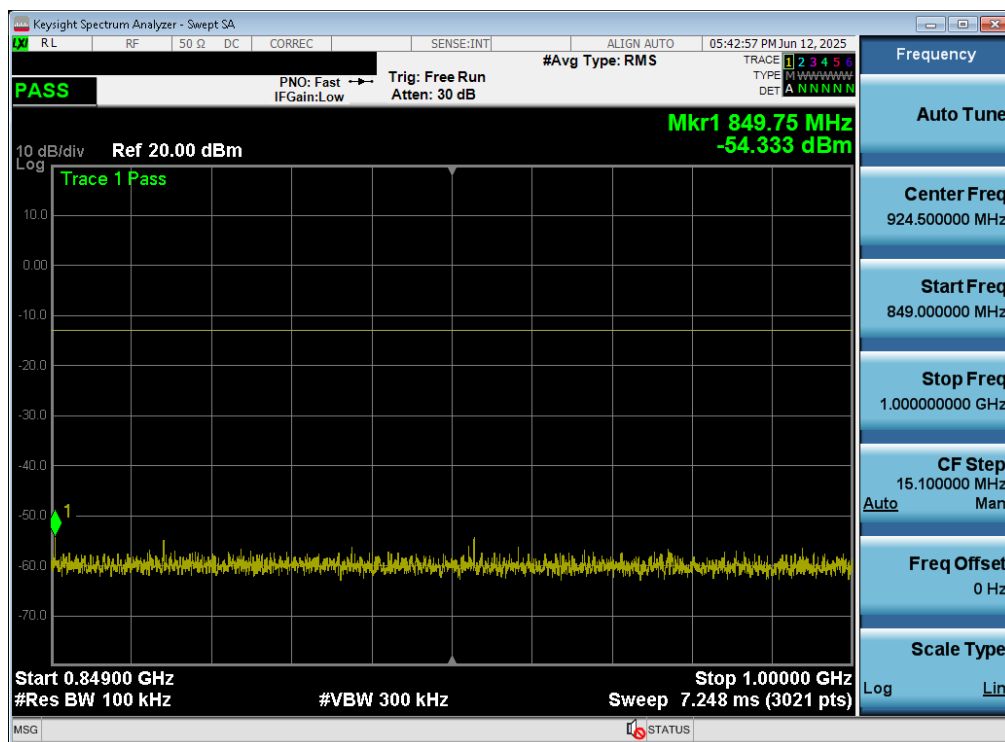


Plot 7-46. Conducted Spurious Plot (GPRS Ch. 128)

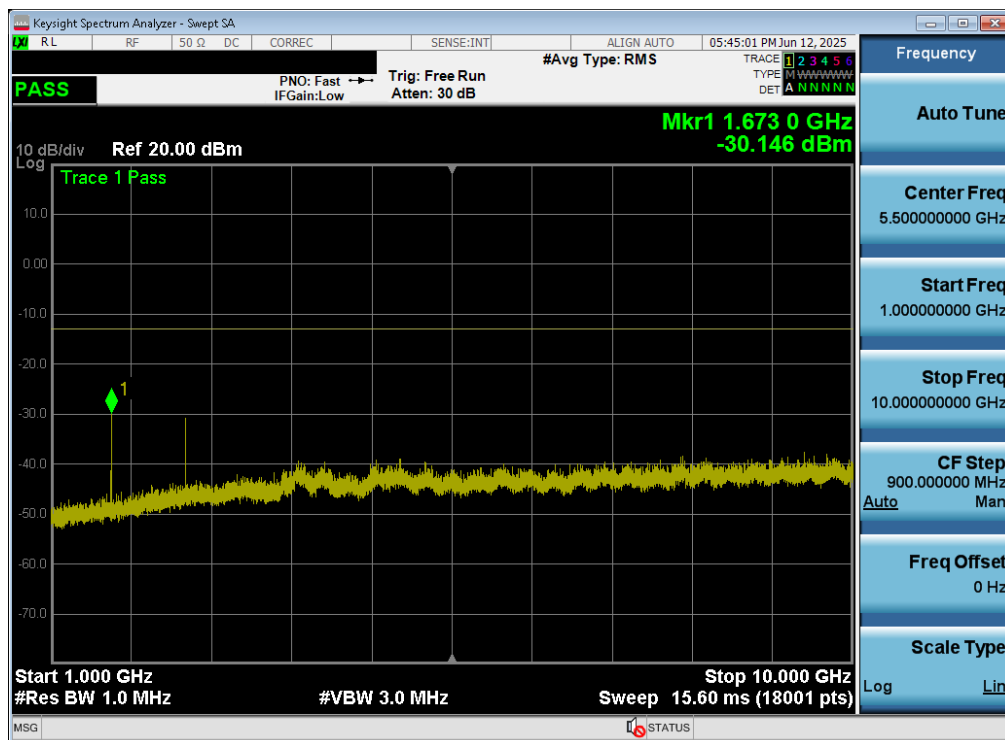


Plot 7-47. Conducted Spurious Plot (GPRS Ch. 190)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 37 of 82

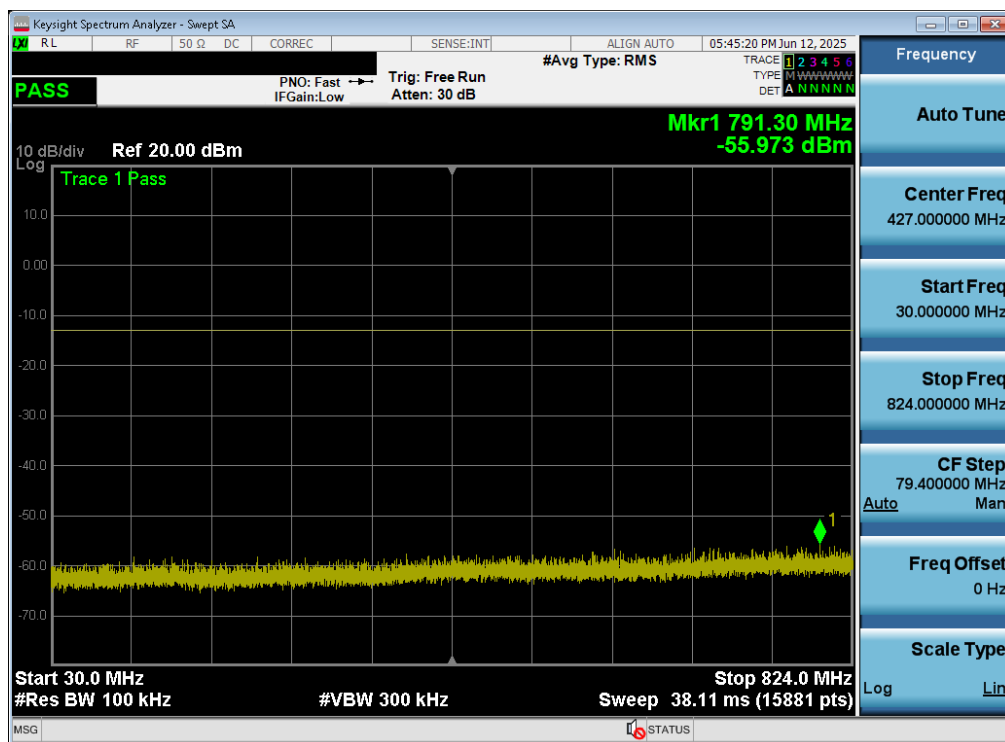


Plot 7-48. Conducted Spurious Plot (GPRS Ch. 190)

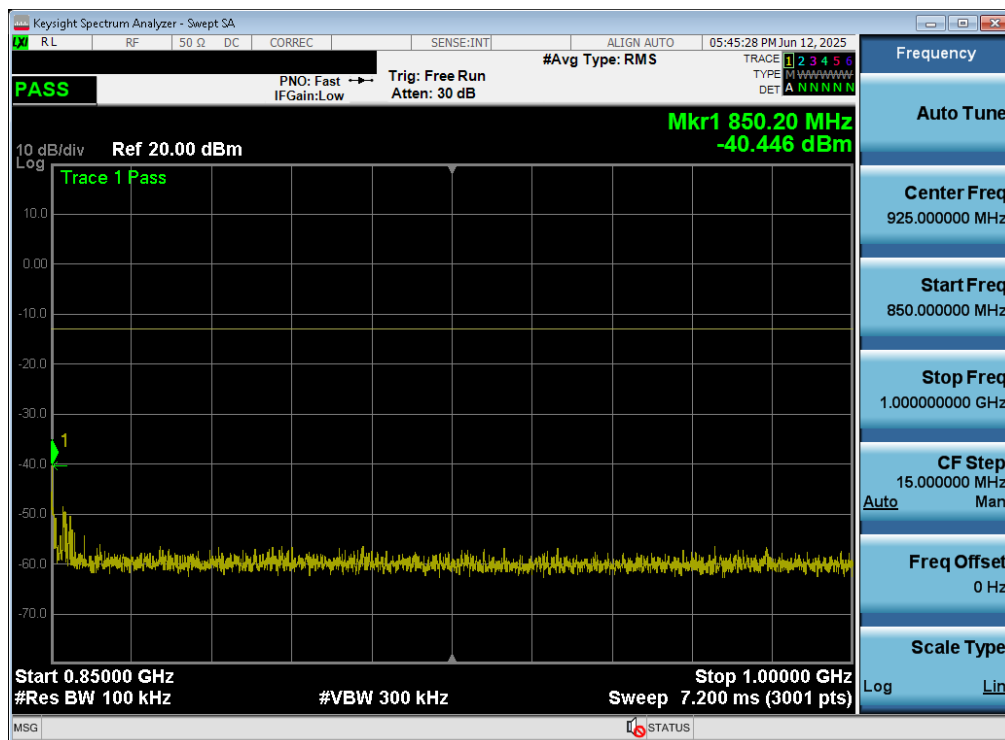


Plot 7-49. Conducted Spurious Plot (GPRS Ch. 190)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 38 of 82

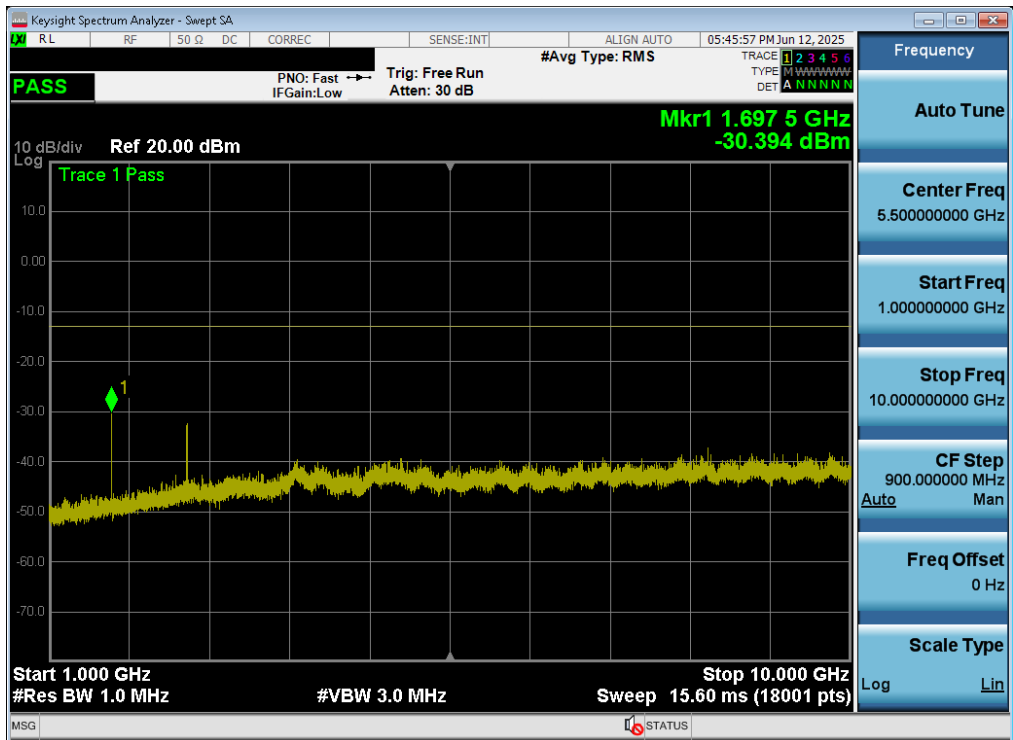


Plot 7-50. Conducted Spurious Plot (GPRS Ch. 251)



Plot 7-51. Conducted Spurious Plot (GPRS Ch. 251)

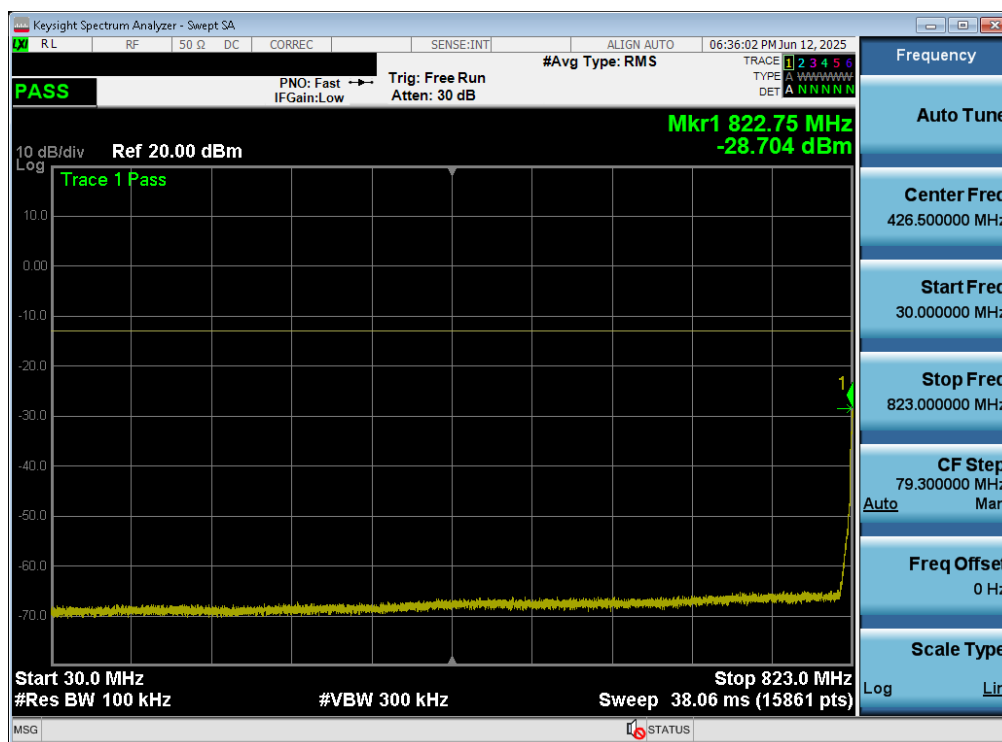
FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 39 of 82



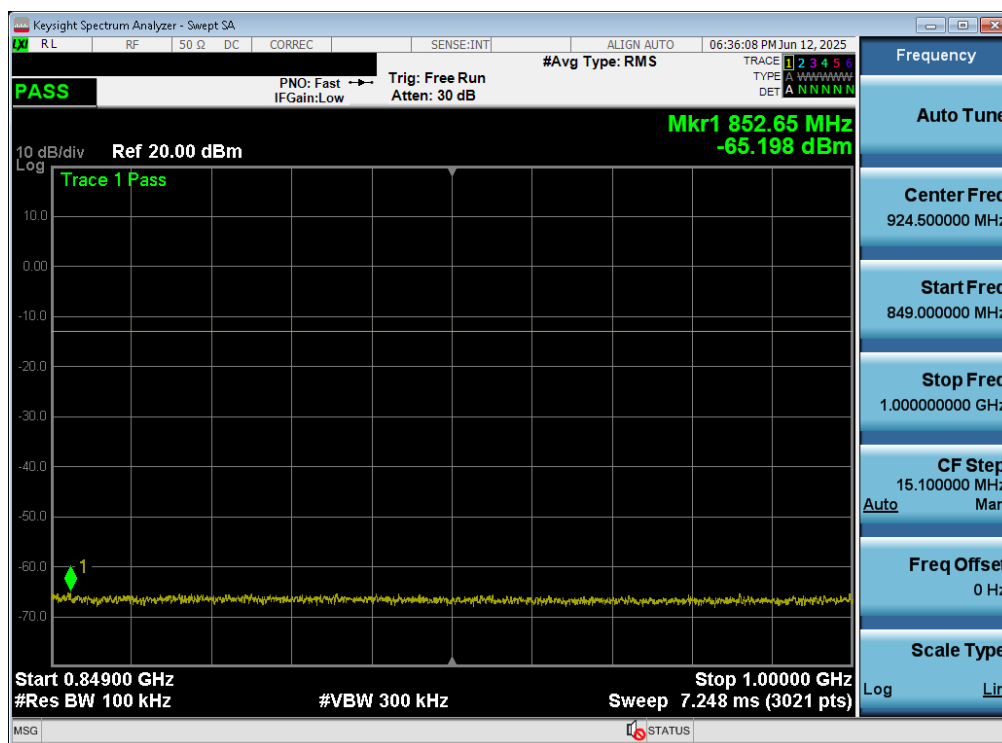
Plot 7-52. Conducted Spurious Plot (GPRS Ch. 251)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 40 of 82

WCDMA Cell

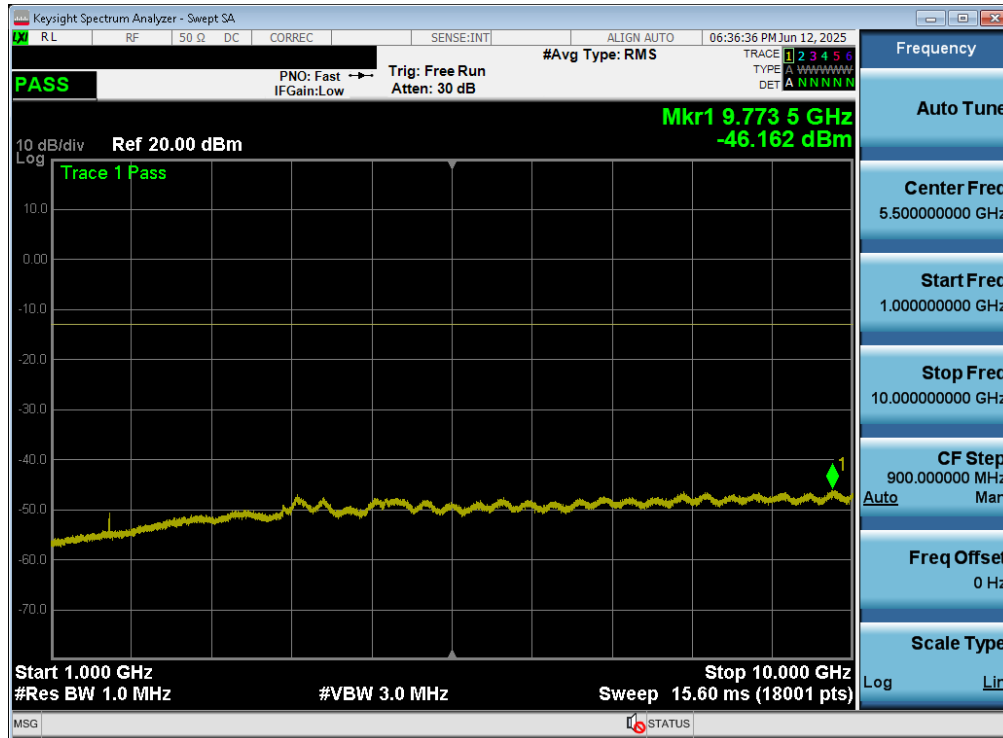


Plot 7-53. Conducted Spurious Plot (WCDMA Ch. 4132)

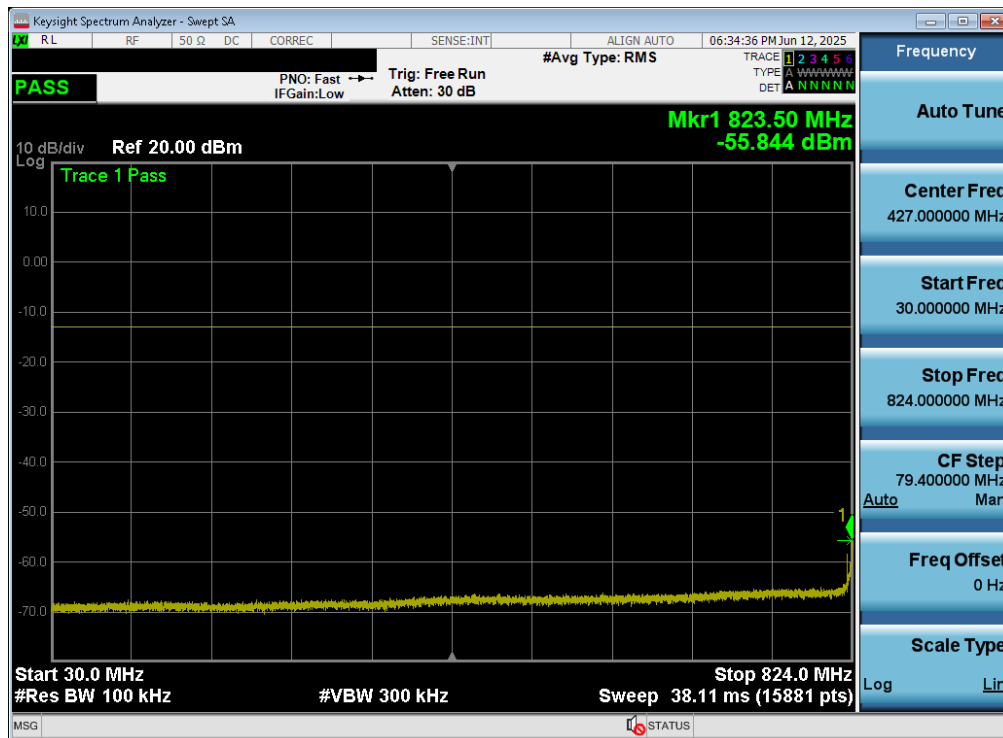


Plot 7-54. Conducted Spurious Plot (WCDMA Ch. 4132)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 41 of 82

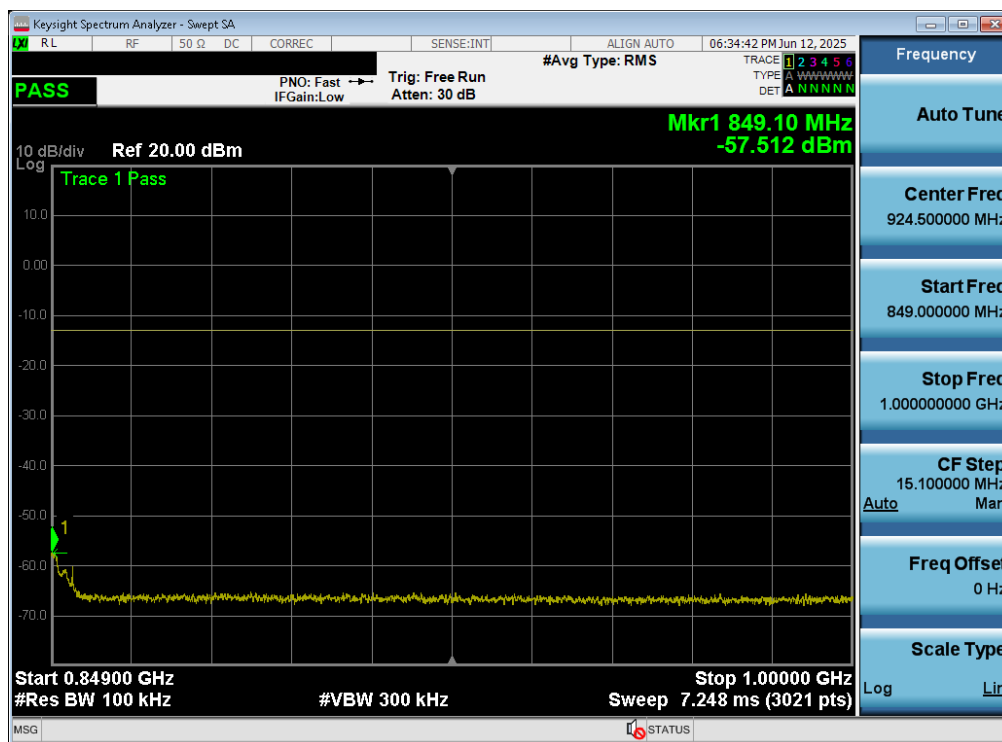


Plot 7-55. Conducted Spurious Plot (WCDMA Ch. 4132)

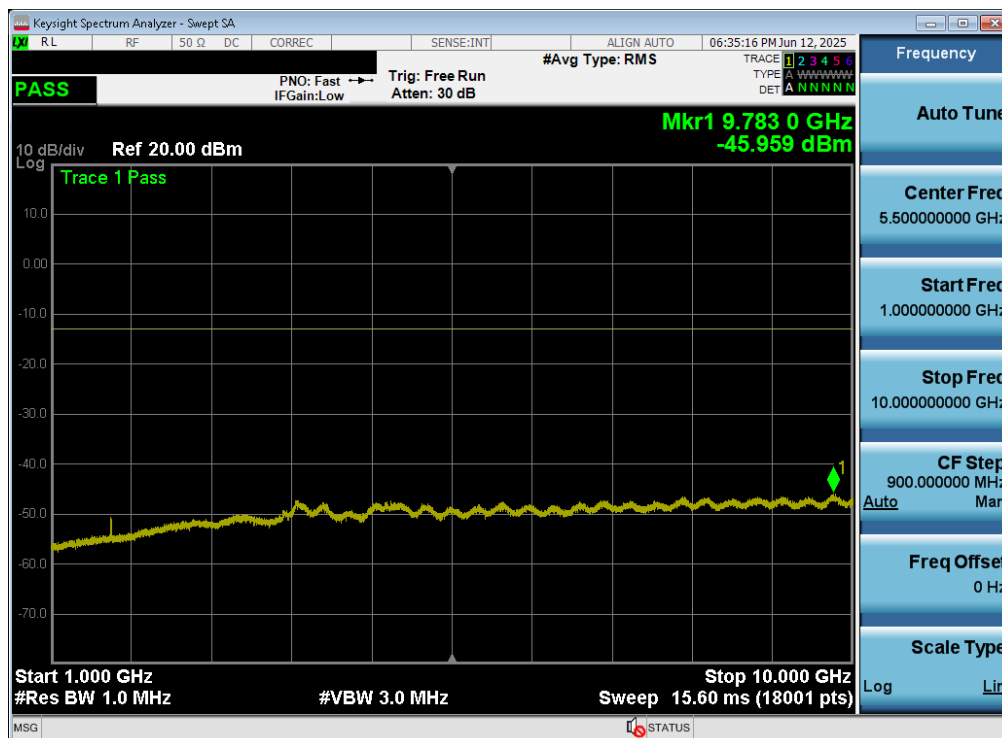


Plot 7-56. Conducted Spurious Plot (WCDMA Ch. 4183)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 42 of 82

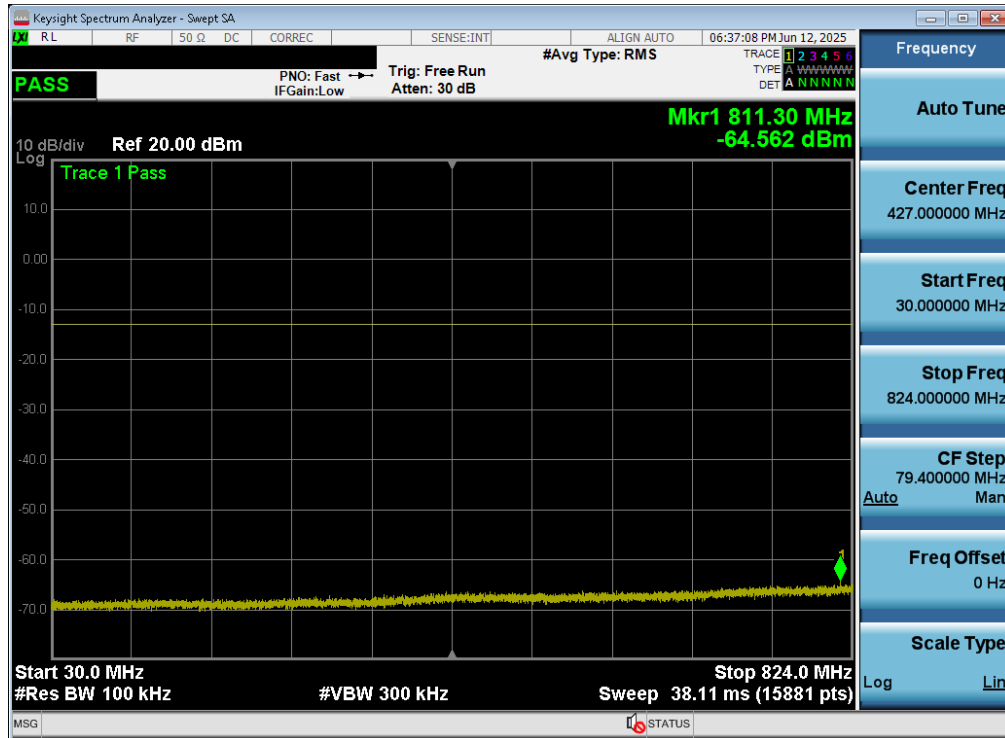


Plot 7-57. Conducted Spurious Plot (WCDMA Ch. 4183)

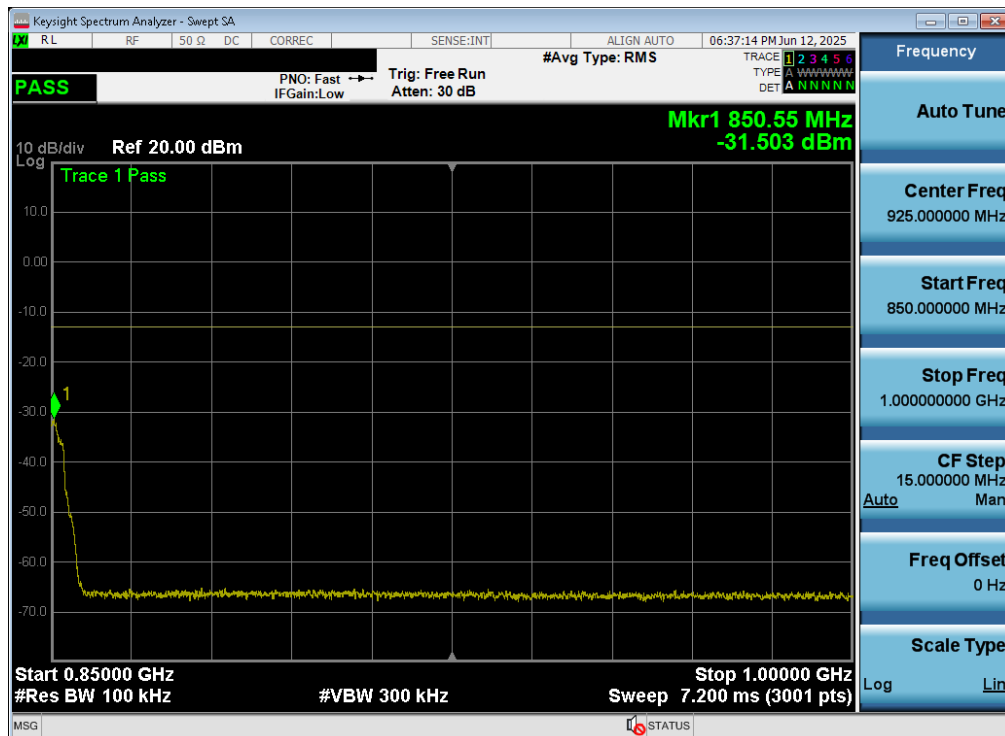


Plot 7-58. Conducted Spurious Plot (WCDMA Ch. 4183)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 43 of 82

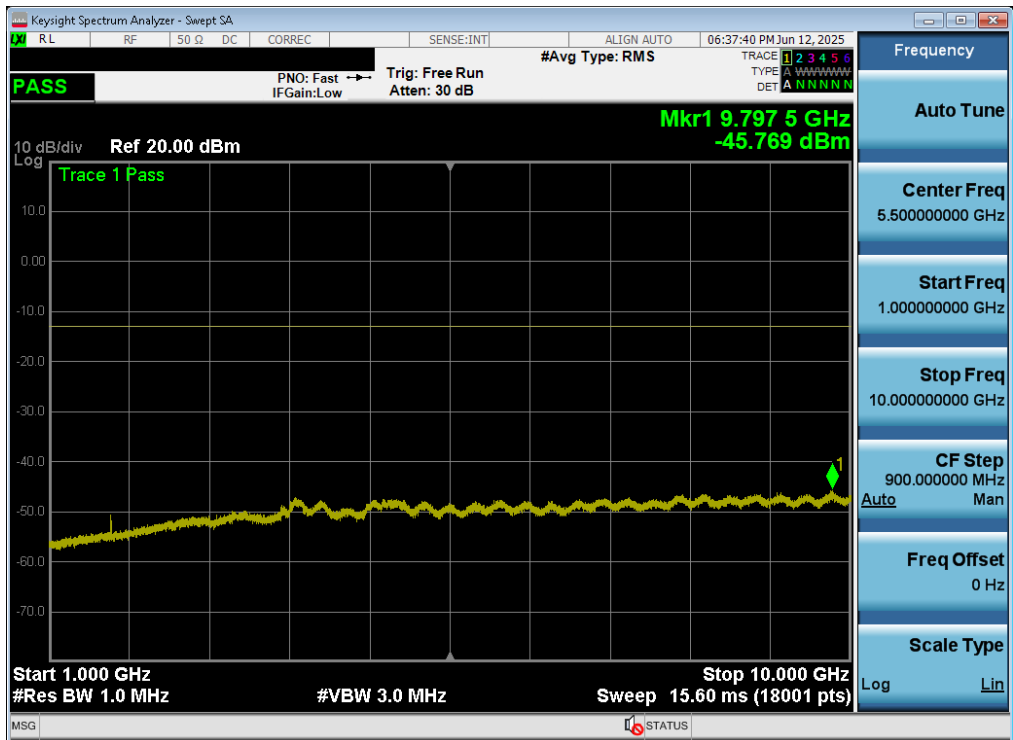


Plot 7-59. Conducted Spurious Plot (WCDMA Ch. 4233)



Plot 7-60. Conducted Spurious Plot (WCDMA Ch. 4233)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-61. Conducted Spurious Plot (WCDMA Ch. 4233)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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7.4 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

Test Settings

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

Test Setup

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

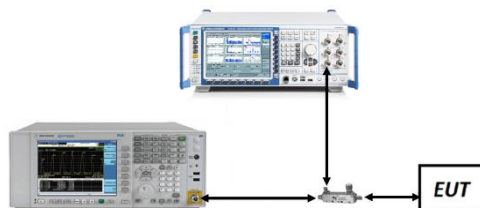


Figure 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 46 of 82

Test Notes

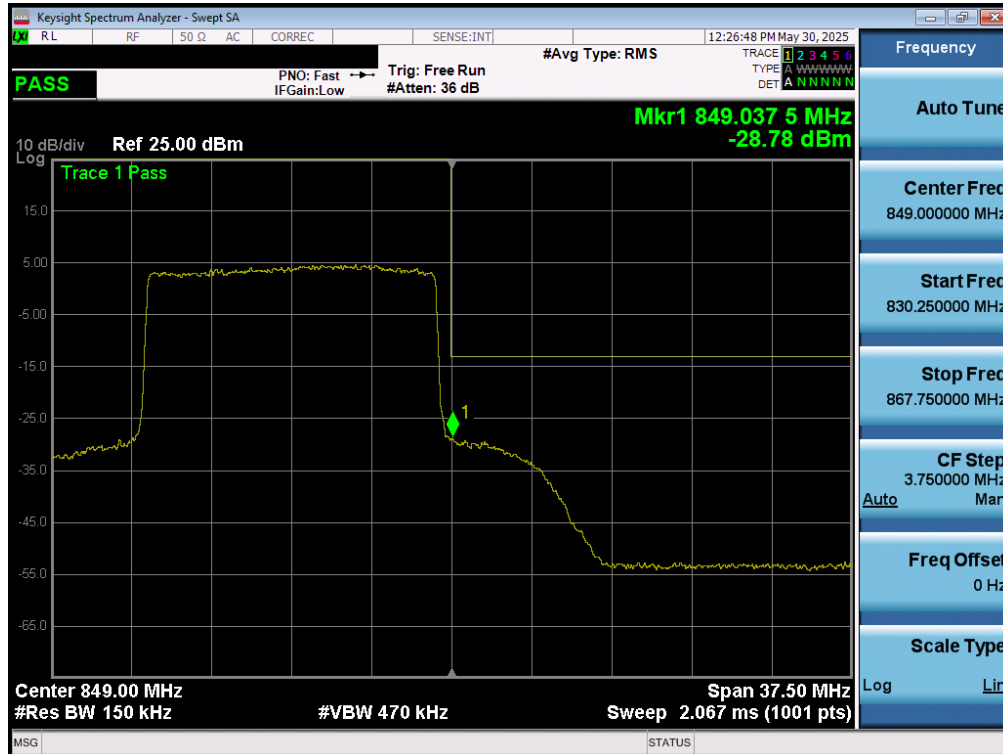
1. Per 22.917(b), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

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LTE Band 26/5



Plot 7-62. Lower Band Edge Plot (LTE Band 26 - 15MHz QPSK – Full RB)



Plot 7-63. Upper Band Edge Plot (LTE Band 26 - 15MHz QPSK – Full RB)

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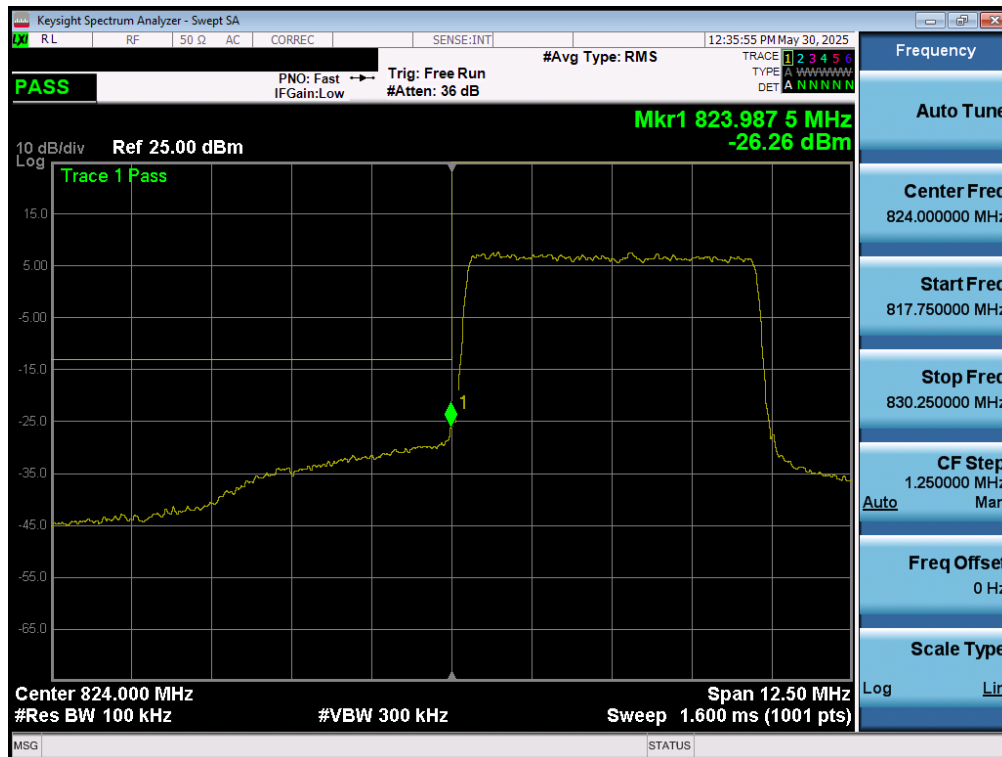


Plot 7-64. Lower Band Edge Plot (LTE Band 26/5 - 10MHz QPSK – Full RB)



Plot 7-65. Upper Band Edge Plot (LTE Band 26/5 - 10MHz QPSK – Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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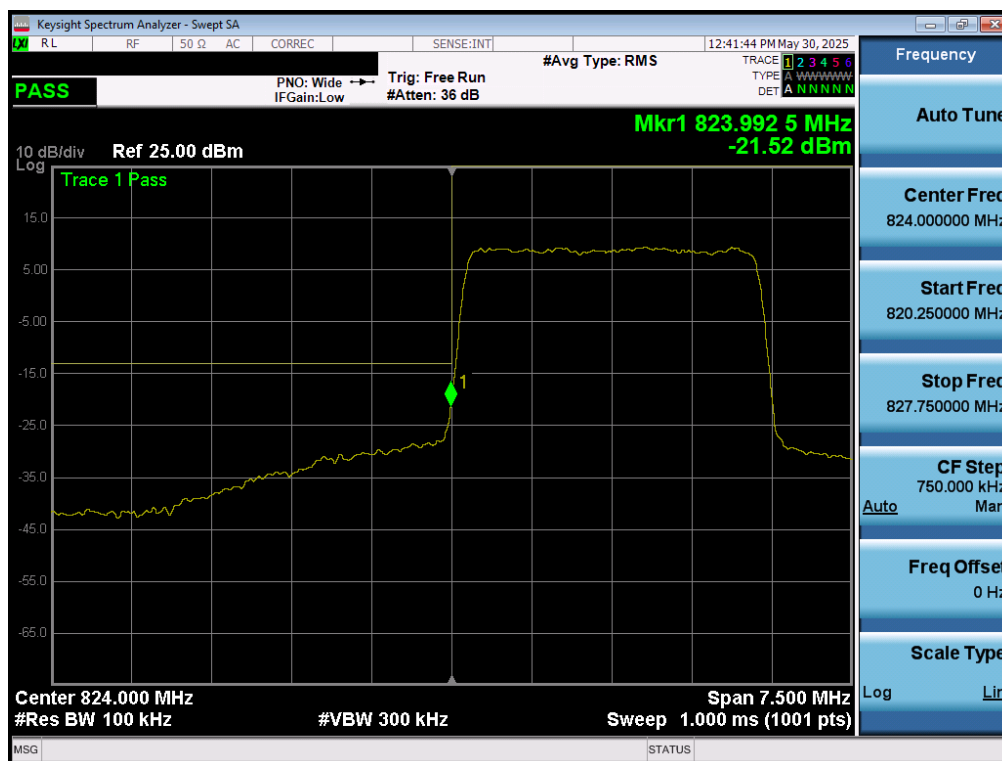


Plot 7-66. Lower Band Edge Plot (LTE Band 26/5 - 5MHz QPSK – Full RB)



Plot 7-67. Upper Band Edge Plot (LTE Band 26/5 - 5MHz QPSK – Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 50 of 82

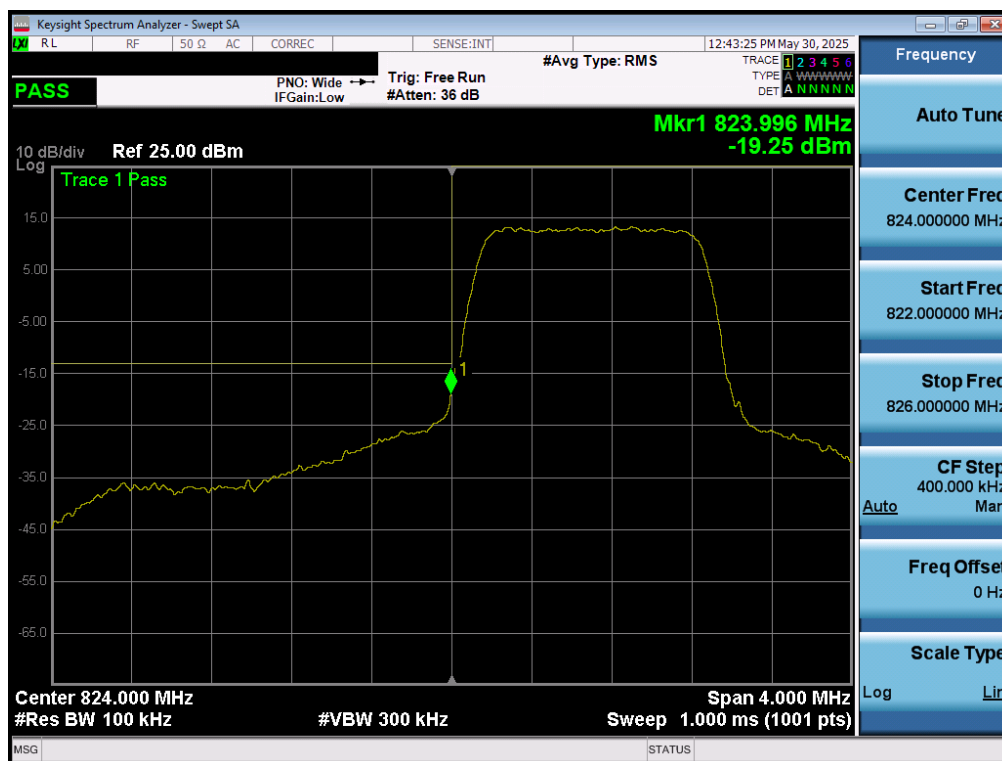


Plot 7-68. Lower Band Edge Plot (LTE Band 26/5 - 3MHz QPSK – Full RB)

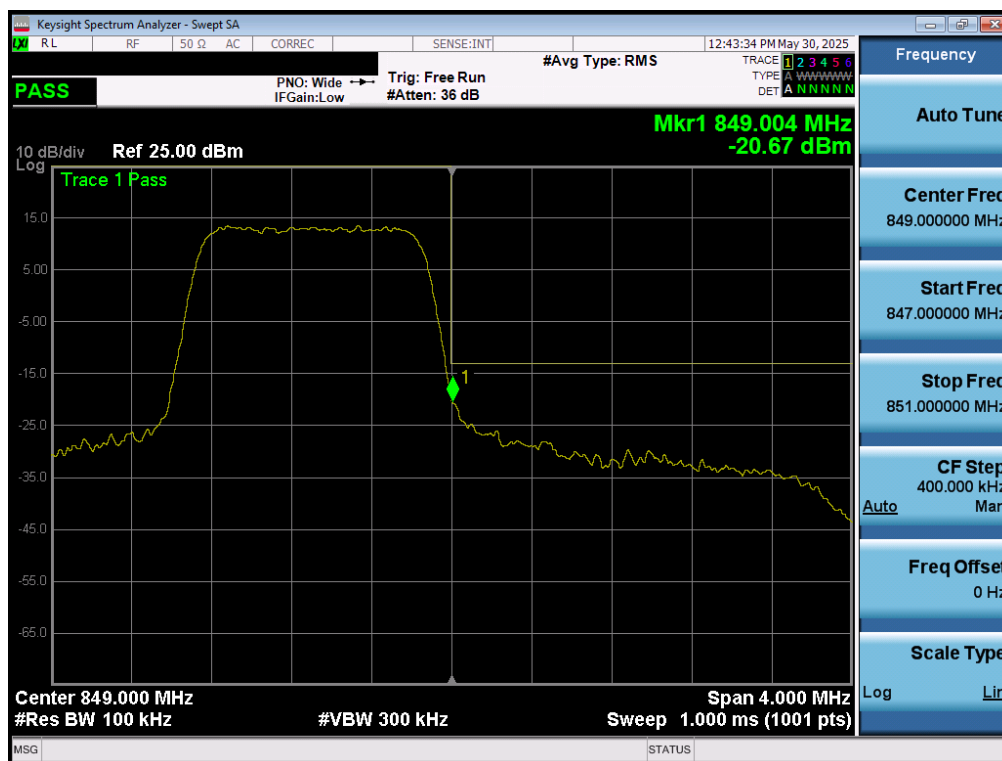


Plot 7-69. Upper Band Edge Plot (LTE Band 26/5 - 3MHz QPSK – Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-70. Lower Band Edge Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB)



Plot 7-71. Upper Band Edge Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 52 of 82

NR Band n5

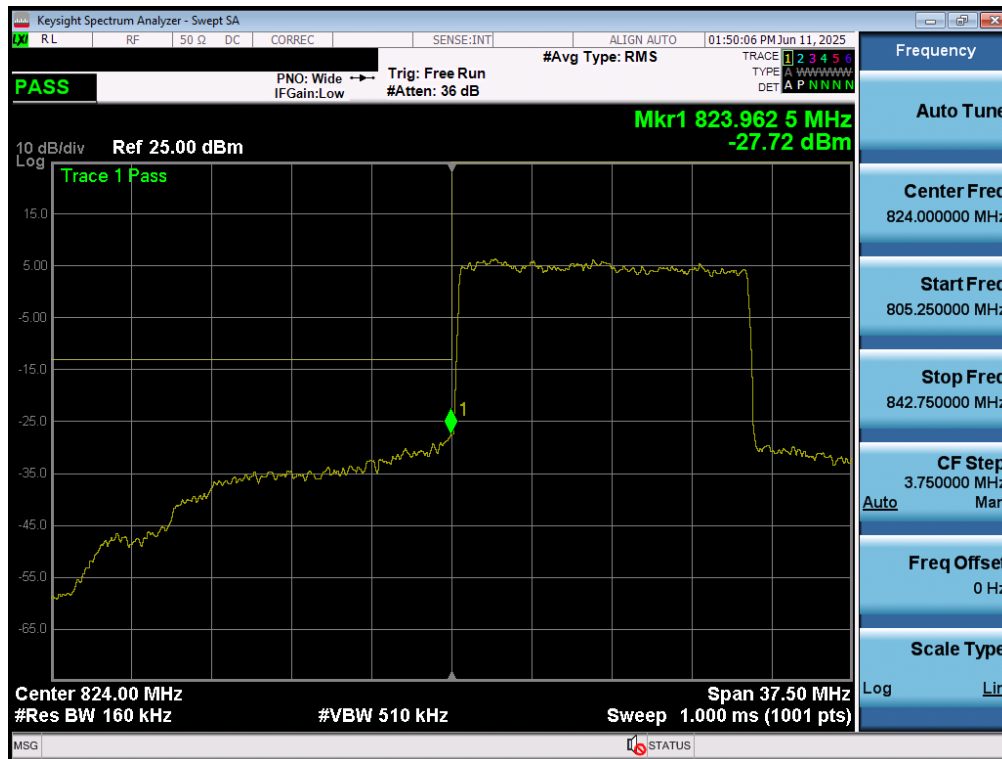


Plot 7-72. Lower Band Edge Plot (NR Band n5 – 20.0MHz - Full RB)

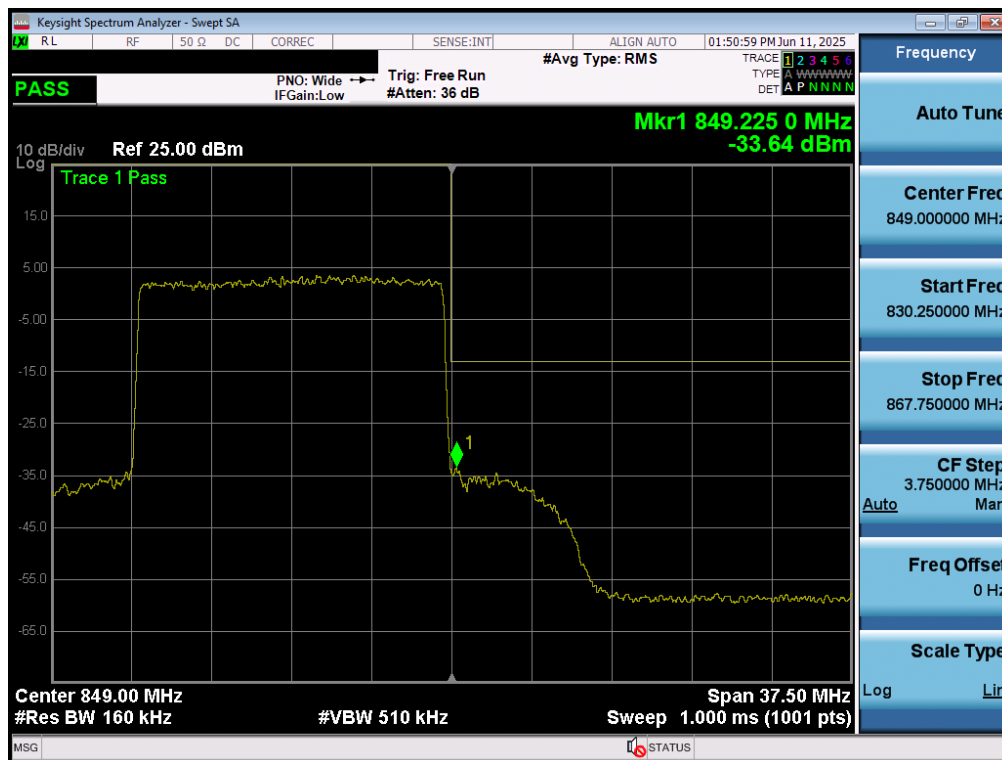


Plot 7-73. Upper Band Edge Plot (NR Band n5 – 20.0MHz - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-74. Lower Band Edge Plot (NR Band n5 – 15.0MHz - Full RB)



Plot 7-75. Upper Band Edge Plot (NR Band n5 – 15.0MHz - Full RB)

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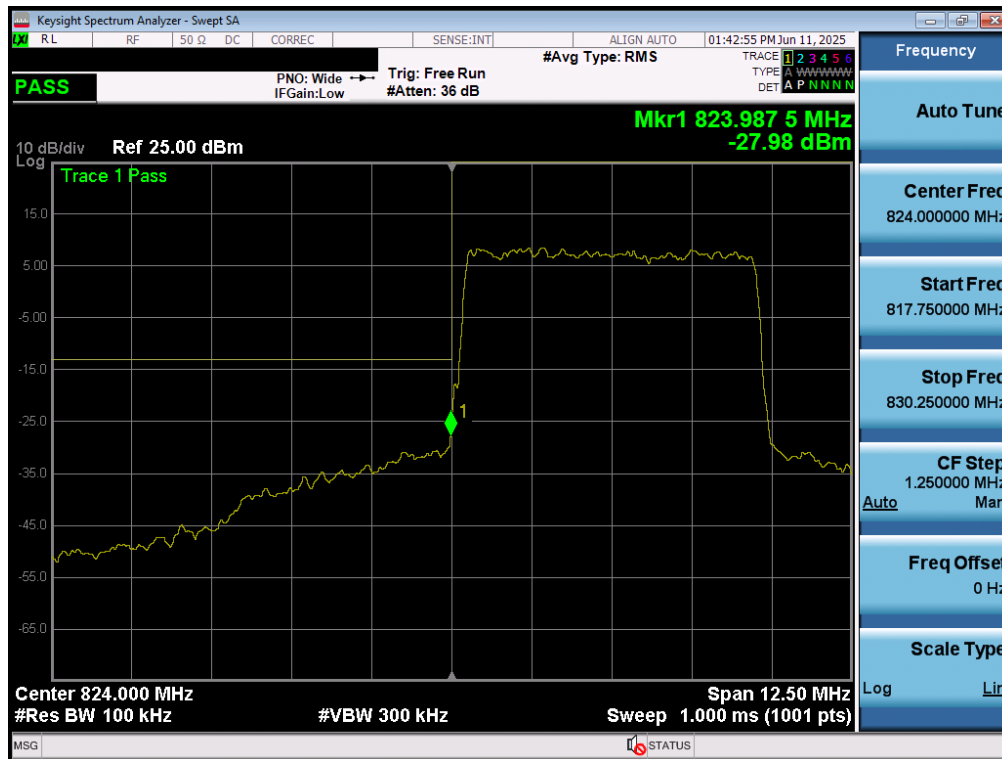


Plot 7-76. Lower Band Edge Plot (NR Band n5 – 10.0MHz - Full RB)



Plot 7-77. Upper Band Edge Plot (NR Band n5 – 10.0MHz - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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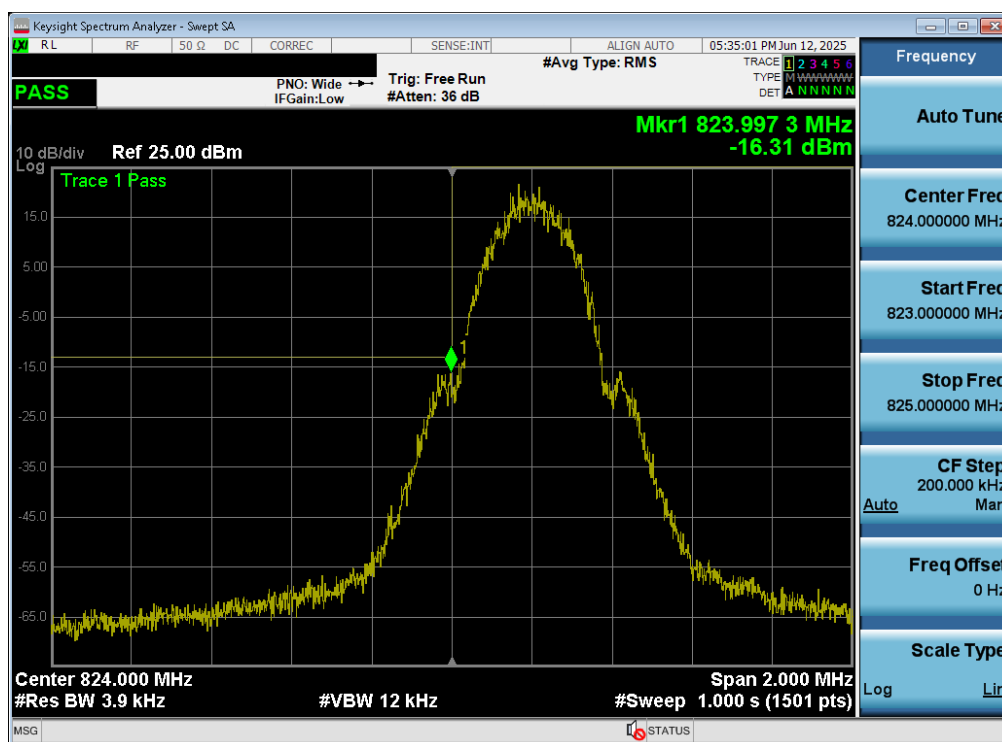
Plot 7-78. Lower Band Edge Plot (NR Band n5 – 5.0MHz - Full RB)



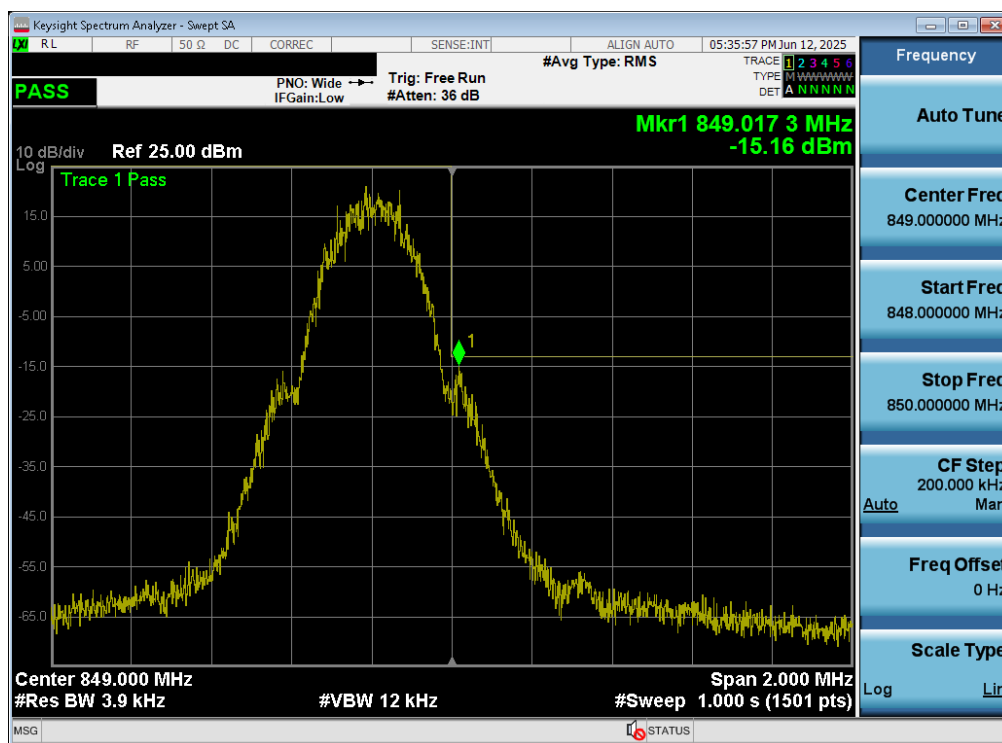
Plot 7-79. Upper Band Edge Plot (NR Band n5 – 5.0MHz - Full RB)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-01.A3L	Test Dates: 5/29/2025 - 7/8/2025	EUT Type: Portable Tablet	Page 56 of 82

GSM/GPRS Cell



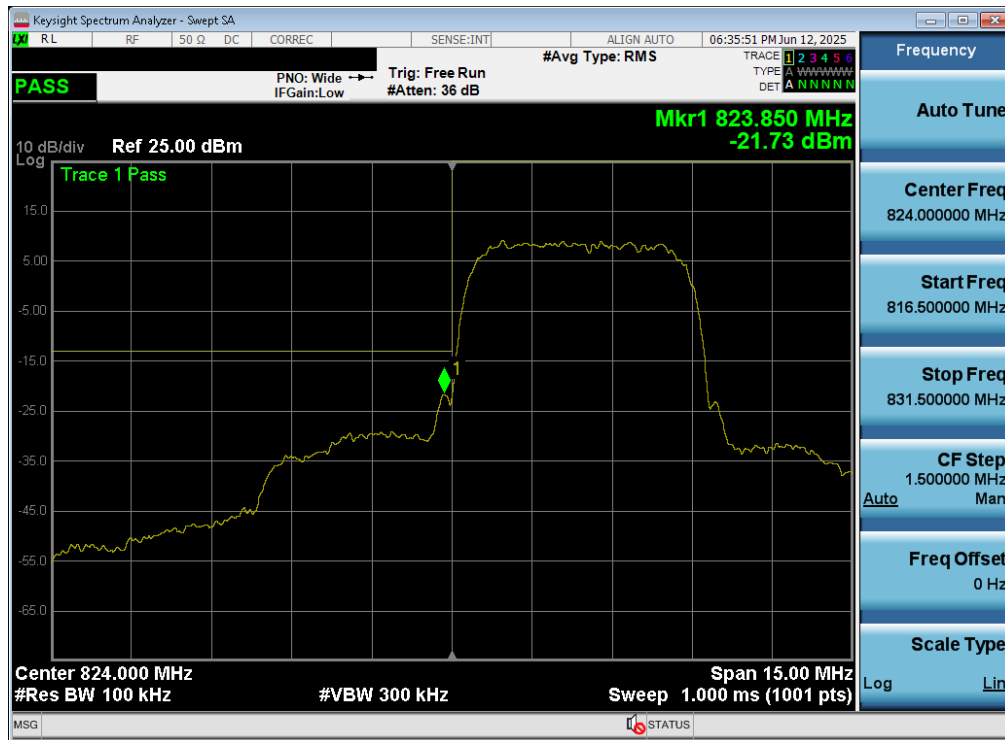
Plot 7-80. Lower Band Edge Plot (GPRS Cell – Ch. 128)



Plot 7-81. Upper Band Edge Plot (GPRS Cell – Ch. 251)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell



Plot 7-82. Lower Band Edge Plot (WCDMA Cell – Ch. 4132)



Plot 7-83. Upper Band Edge Plot (WCDMA Cell – Ch. 4233)

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7.5 Radiated Power (ERP)

Test Overview

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

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

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

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Test Setup

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

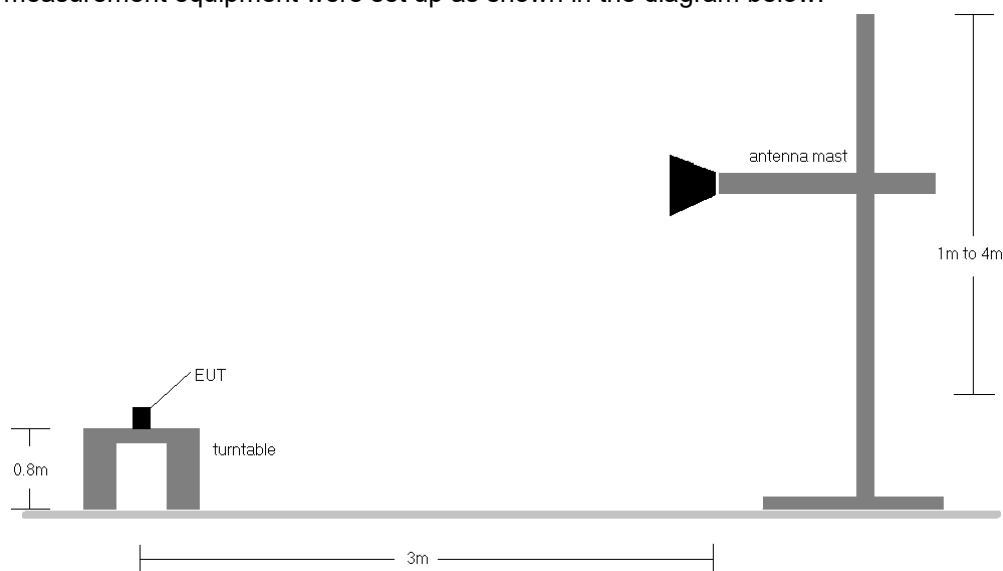


Figure 7-4. Radiated Test Setup < 1GHz

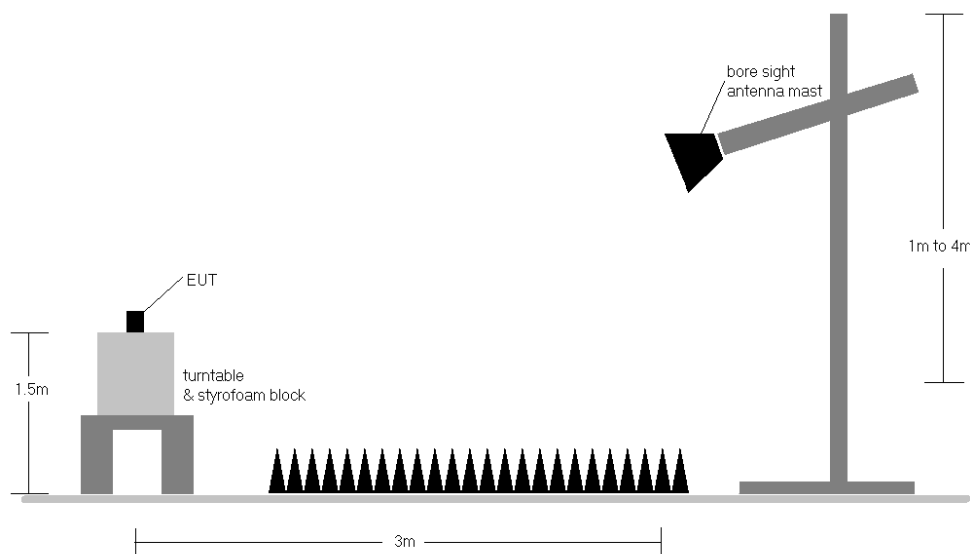


Figure 7-5. Radiated Test Setup > 1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".

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- 3) 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.
- 4) This unit was tested with its standard battery.
- 5) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15MHz (Band 26 only)	QPSK	831.50	H	214	3	1.46	1 / 74	23.30	22.61	0.182	38.45	-15.84	24.76	0.299	40.61	-15.85
	QPSK	836.50	H	205	2	1.54	1 / 74	23.94	23.33	0.215	38.45	-15.12	25.48	0.353	40.61	-15.12
	QPSK	841.50	H	207	1	1.62	1 / 37	23.94	23.41	0.219	38.45	-15.04	25.56	0.360	40.61	-15.04
	16-QAM	831.50	H	214	3	1.46	1 / 74	22.65	21.96	0.157	38.45	-16.49	24.11	0.258	40.61	-16.50
	16-QAM	836.50	H	205	2	1.54	1 / 74	23.29	22.68	0.185	38.45	-15.77	24.83	0.304	40.61	-15.77
	16-QAM	841.50	H	207	1	1.62	1 / 37	23.28	22.75	0.189	38.45	-15.70	24.90	0.309	40.61	-15.70
10 MHz	QPSK	829.00	H	214	3	1.42	1 / 0	23.23	22.50	0.178	38.45	-15.95	24.65	0.292	40.61	-15.95
	QPSK	836.50	H	205	2	1.54	1 / 0	23.94	23.33	0.215	38.45	-15.12	25.48	0.353	40.61	-15.13
	QPSK	844.00	H	207	1	1.66	1 / 25	23.82	23.34	0.216	38.45	-15.11	25.49	0.354	40.61	-15.12
	16-QAM	829.00	H	214	3	1.42	1 / 0	22.58	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.60
	16-QAM	836.50	H	205	2	1.54	1 / 0	22.80	22.20	0.168	38.45	-16.25	24.35	0.272	40.61	-16.26
	16-QAM	844.00	H	207	1	1.66	1 / 25	22.91	22.43	0.175	38.45	-16.02	24.58	0.287	40.61	-16.03
5 MHz	QPSK	826.50	H	214	3	1.38	1 / 0	23.50	22.73	0.188	38.45	-15.72	24.88	0.308	40.61	-15.73
	QPSK	836.50	H	205	2	1.54	1 / 12	23.53	22.92	0.196	38.45	-15.53	25.07	0.321	40.61	-15.54
	QPSK	846.50	H	207	1	1.70	1 / 0	23.37	22.92	0.196	38.45	-15.53	25.07	0.322	40.61	-15.53
	16-QAM	826.50	H	214	3	1.38	1 / 0	22.38	21.61	0.145	38.45	-16.85	23.76	0.237	40.61	-16.85
	16-QAM	836.50	H	205	2	1.54	1 / 12	22.55	21.95	0.157	38.45	-16.50	24.10	0.257	40.61	-16.51
	16-QAM	846.50	H	207	1	1.70	1 / 0	22.59	22.14	0.164	38.45	-16.31	24.29	0.269	40.61	-16.32
3 MHz	QPSK	825.50	H	214	3	1.36	1 / 7	23.12	22.33	0.171	38.45	-16.12	24.48	0.280	40.61	-16.13
	QPSK	836.50	H	205	2	1.54	1 / 14	23.54	22.93	0.196	38.45	-15.52	25.08	0.322	40.61	-15.53
	QPSK	847.50	H	207	1	1.72	1 / 0	23.57	23.14	0.206	38.45	-15.31	25.29	0.338	40.61	-15.31
	16-QAM	825.50	H	214	3	1.36	1 / 7	22.20	21.42	0.139	38.45	-17.04	23.57	0.227	40.61	-17.04
	16-QAM	836.50	H	205	2	1.54	1 / 14	22.65	22.04	0.160	38.45	-16.41	24.19	0.262	40.61	-16.42
	16-QAM	847.50	H	207	1	1.72	1 / 0	22.61	22.18	0.165	38.45	-16.27	24.33	0.271	40.61	-16.27
1.4 MHz	QPSK	824.70	H	214	3	1.35	1 / 5	23.00	22.20	0.166	38.45	-16.25	24.35	0.272	40.61	-16.26
	QPSK	836.50	H	205	2	1.54	1 / 5	23.64	23.03	0.201	38.45	-15.42	25.18	0.329	40.61	-15.43
	QPSK	848.30	H	207	1	1.73	1 / 0	23.46	23.04	0.201	38.45	-15.41	25.19	0.330	40.61	-15.42
	16-QAM	824.70	H	214	3	1.35	1 / 5	22.11	21.31	0.135	38.45	-17.14	23.46	0.222	40.61	-17.15
	16-QAM	836.50	H	205	2	1.54	1 / 5	22.53	21.93	0.156	38.45	-16.53	24.08	0.256	40.61	-16.53
	16-QAM	848.30	H	207	1	1.73	1 / 0	22.67	22.25	0.168	38.45	-16.20	24.40	0.275	40.61	-16.21
15MHz	QPSK (Opposite Pol.)	841.50	V	133	125	1.46	0.00	22.59	21.90	0.155	38.45	-16.55	24.05	0.254	40.61	-16.56

Table 7-2. ERP Data (LTE Band 26/5)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	11/2 BPSK	834.00	H	202	14	1.50	1 / 53	21.85	21.20	0.132	38.45	-17.25	23.35	0.216	40.61	-17.25
	11/2 BPSK	836.50	H	202	13	1.54	1 / 53	22.20	21.59	0.144	38.45	-16.86	23.74	0.237	40.61	-16.86
	11/2 BPSK	839.00	H	202	10	1.58	1 / 1	22.02	21.45	0.140	38.45	-17.00	23.60	0.229	40.61	-17.00
	QPSK	834.00	H	202	14	1.50	1 / 53	21.81	21.16	0.131	38.45	-17.29	23.31	0.214	40.61	-17.29
	QPSK	836.50	H	202	13	1.54	1 / 53	21.83	21.22	0.133	38.45	-17.23	23.37	0.217	40.61	-17.23
	QPSK	839.00	H	202	10	1.58	1 / 1	19.96	19.39	0.087	38.45	-19.06	21.54	0.143	40.61	-19.06
	16-QAM	834.00	H	202	14	1.50	1 / 53	21.06	20.41	0.110	38.45	-18.04	22.56	0.180	40.61	-18.04
	16-QAM	836.50	H	202	13	1.54	1 / 53	21.28	20.67	0.117	38.45	-17.78	22.82	0.192	40.61	-17.78
	16-QAM	839.00	H	202	10	1.58	1 / 1	21.25	20.68	0.117	38.45	-17.77	22.83	0.192	40.61	-17.77
	11/2 BPSK	831.50	H	202	14	1.46	1 / 1	21.98	21.29	0.134	38.45	-17.16	23.44	0.221	40.61	-17.17
15 MHz	11/2 BPSK	836.50	H	202	13	1.54	1 / 39	22.17	21.56	0.143	38.45	-16.89	23.71	0.235	40.61	-16.89
	11/2 BPSK	841.50	H	202	10	1.62	1 / 39	22.09	21.57	0.143	38.45	-16.89	23.72	0.235	40.61	-16.89
	QPSK	831.50	H	202	14	1.46	1 / 1	21.79	21.11	0.129	38.45	-17.35	23.26	0.212	40.61	-17.35
	QPSK	836.50	H	202	13	1.54	1 / 39	21.80	21.19	0.132	38.45	-17.26	23.34	0.216	40.61	-17.27
	QPSK	841.50	H	202	10	1.62	1 / 39	19.92	19.40	0.087	38.45	-19.05	21.55	0.143	40.61	-19.06
	16-QAM	831.50	H	202	14	1.46	1 / 1	21.12	20.43	0.110	38.45	-18.02	22.58	0.181	40.61	-18.03
	16-QAM	836.50	H	202	13	1.54	1 / 39	21.24	20.63	0.116	38.45	-17.82	22.78	0.190	40.61	-17.83
	16-QAM	841.50	H	202	10	1.62	1 / 39	21.32	20.79	0.120	38.45	-17.66	22.94	0.197	40.61	-17.67
	11/2 BPSK	829.00	H	202	14	1.42	1 / 1	21.94	21.21	0.132	38.45	-17.24	23.36	0.217	40.61	-17.25
	11/2 BPSK	836.50	H	202	13	1.54	1 / 50	22.10	21.49	0.141	38.45	-16.96	23.64	0.231	40.61	-16.97
10 MHz	11/2 BPSK	844.00	H	202	10	1.66	1 / 1	21.85	21.36	0.137	38.45	-17.09	23.51	0.224	40.61	-17.10
	QPSK	829.00	H	202	14	1.42	1 / 1	21.79	21.06	0.128	38.45	-17.39	23.21	0.209	40.61	-17.40
	QPSK	836.50	H	202	13	1.54	1 / 50	21.82	21.21	0.132	38.45	-17.24	23.36	0.217	40.61	-17.25
	QPSK	844.00	H	202	10	1.66	1 / 1	19.68	19.20	0.083	38.45	-19.25	21.35	0.136	40.61	-19.26
	16-QAM	829.00	H	202	14	1.42	1 / 1	21.06	20.33	0.108	38.45	-18.12	22.48	0.177	40.61	-18.13
	16-QAM	836.50	H	202	13	1.54	1 / 50	21.00	20.39	0.109	38.45	-18.06	22.54	0.180	40.61	-18.07
	16-QAM	844.00	H	202	10	1.66	1 / 1	20.87	20.39	0.109	38.45	-18.06	22.54	0.179	40.61	-18.07
	11/2 BPSK	829.00	H	202	14	1.38	1 / 12	22.20	21.43	0.139	38.45	-17.02	23.58	0.228	40.61	-17.02
	11/2 BPSK	836.50	H	202	13	1.54	1 / 23	22.13	21.53	0.142	38.45	-16.93	23.68	0.233	40.61	-16.93
	11/2 BPSK	844.00	H	202	10	1.70	1 / 1	21.93	21.49	0.141	38.45	-16.96	23.64	0.231	40.61	-16.97
5 MHz	QPSK	829.00	H	202	14	1.38	1 / 12	21.90	21.13	0.130	38.45	-17.32	23.28	0.213	40.61	-17.33
	QPSK	836.50	H	202	13	1.54	1 / 23	21.84	21.23	0.133	38.45	-17.22	23.38	0.218	40.61	-17.22
	QPSK	844.00	H	202	10	1.70	1 / 1	19.61	19.17	0.083	38.45	-19.28	21.32	0.135	40.61	-19.29
	16-QAM	829.00	H	202	14	1.38	1 / 12	21.00	20.23	0.105	38.45	-18.22	22.38	0.173	40.61	-18.23
	16-QAM	836.50	H	202	13	1.54	1 / 23	21.21	20.61	0.115	38.45	-17.85	22.76	0.189	40.61	-17.85
	16-QAM	844.00	H	202	10	1.70	1 / 1	21.09	20.64	0.116	38.45	-17.81	22.79	0.190	40.61	-17.81
20 MHz	QPSK (CP-OFDM)	836.50	H	135	8	1.54	1 / 1	20.19	19.58	0.091	38.45	-18.87	21.73	0.149	40.61	-18.87

Table 7-3. ERP Data (NR Band n5)

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Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GSM850	H	212	351	30.76	1.34	29.95	0.989	38.45	-8.50	32.10	1.622	40.61	-8.51
836.60	GSM850	H	205	349	31.73	1.54	31.12	1.296	38.45	-7.33	33.27	2.125	40.61	-7.33
848.80	GSM850	H	209	345	31.88	1.74	31.47	1.403	38.45	-6.98	33.62	2.302	40.61	-6.99
848.80	EDGE850	H	209	345	24.55	1.74	24.14	0.260	38.45	-14.31	26.29	0.426	40.61	-14.32

Table 7-4. ERP Data (GPRS Cell)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	H	211	353	21.96	1.38	21.19	0.131	38.45	-17.26	23.34	0.216	40.61	-17.27
836.60	WCDMA850	H	205	353	22.44	1.54	21.83	0.153	38.45	-16.62	23.98	0.250	40.61	-16.62
846.60	WCDMA850	H	212	347	22.54	1.71	22.10	0.162	38.45	-16.35	24.25	0.266	40.61	-16.36

Table 7-5. ERP Data (WCDMA Cell)

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7.6 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

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

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Test Setup

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

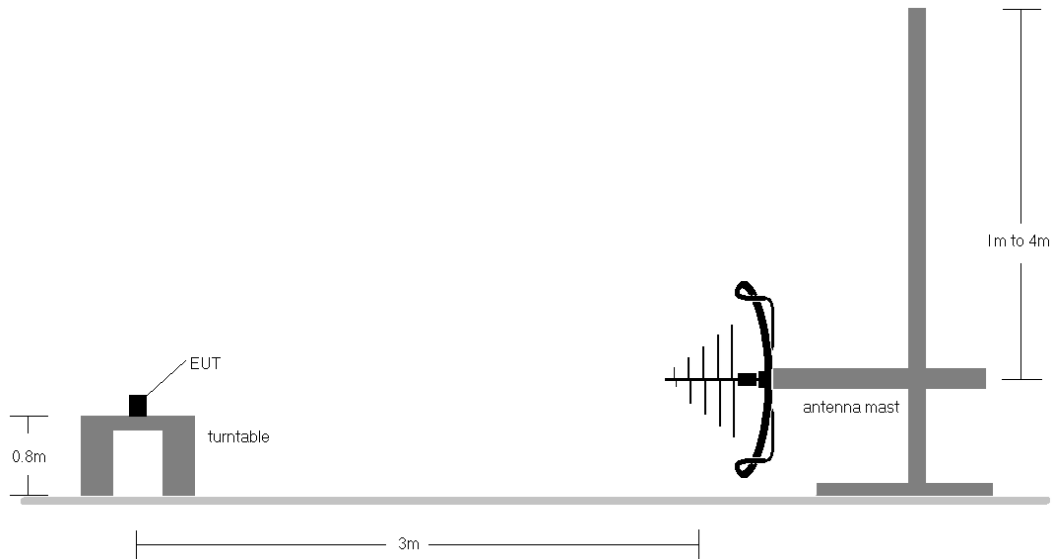


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

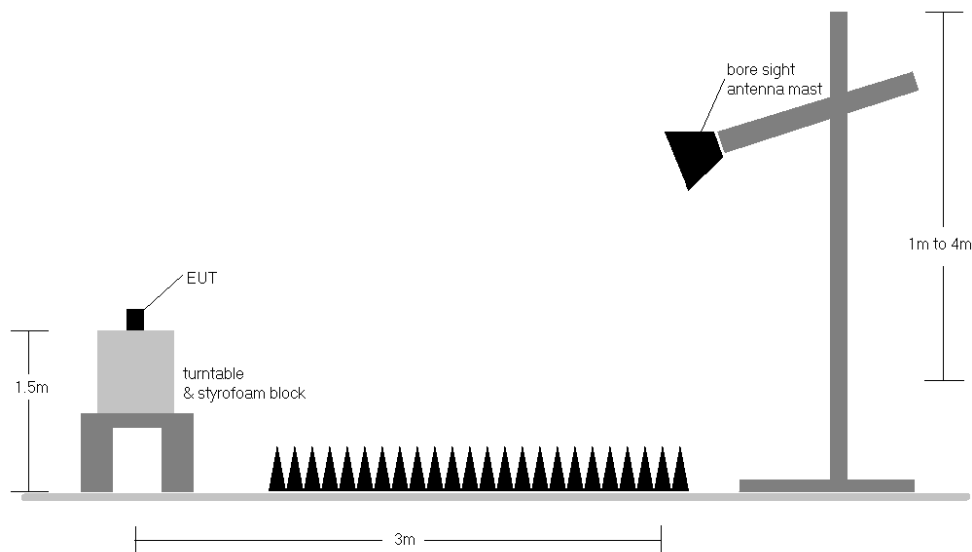


Figure 7-7. Test Instrument & Measurement Setup > 1GHz

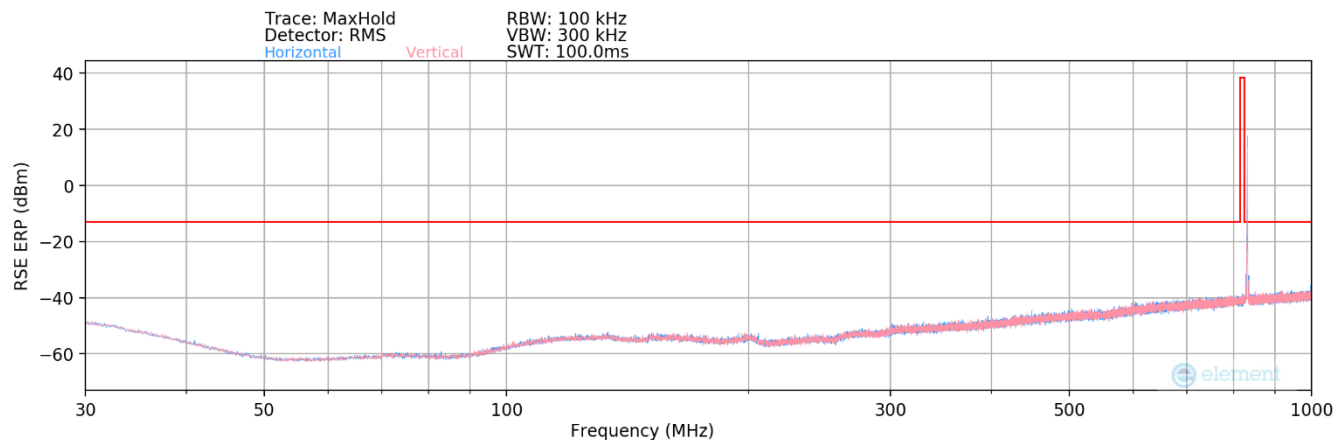
FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

- 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) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) 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.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) 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.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

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LTE Band 26/5



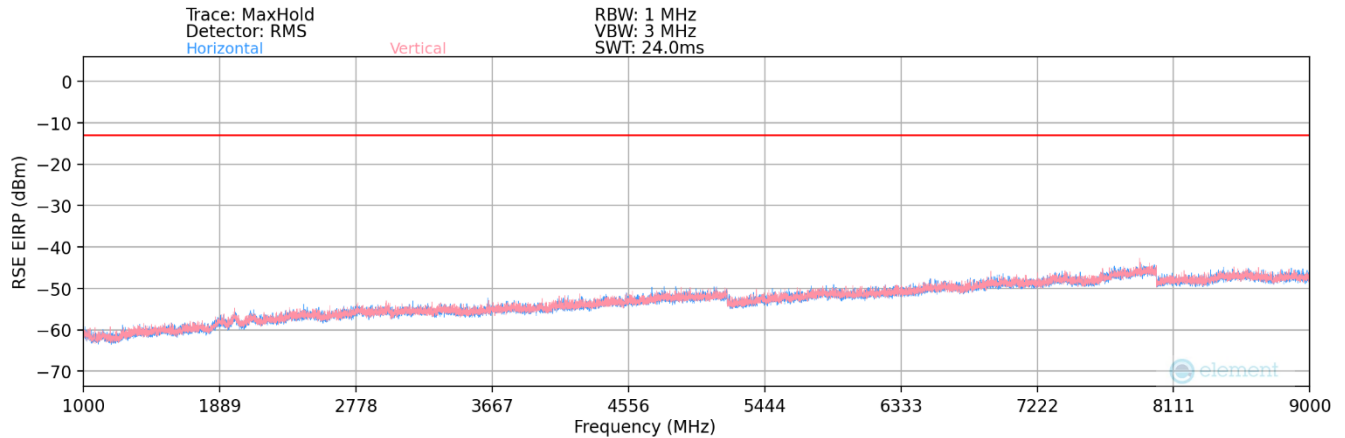
Plot 7-84. Radiated Spurious Plot (LTE Band 26/5)

Bandwidth (MHz):	15
Frequency (MHz):	831.5
RB / Offset:	1/25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
54.10	V	-	-	-75.25	13.89	45.64	-51.77	-13.00	-38.77
353.00	H	-	-	-77.66	22.17	51.51	-45.89	-13.00	-32.89
532.30	H	-	-	-77.70	26.14	55.44	-41.97	-13.00	-28.97
668.65	H	-	-	-75.92	27.99	59.07	-38.34	-13.00	-25.34
835.55	V	-	-	-73.48	30.23	63.75	-33.66	-13.00	-20.66
924.80	V	-	-	-76.44	31.13	61.69	-35.72	-13.00	-22.72

Table 7-6. Radiated Spurious Data (LTE Band 26/5 – Low Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-85. Radiated Spurious Plot (LTE Band 26/5)

Bandwidth (MHz):	15
Frequency (MHz):	831.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1663.00	H	107	230	-64.85	-9.50	32.65	-62.61	-13.00	-49.61
2494.50	H	-	-	-65.92	-5.62	35.46	-59.80	-13.00	-46.80
3326.00	H	-	-	-67.10	-3.43	36.47	-58.78	-13.00	-45.78
4157.50	H	-	-	-72.29	-1.91	32.80	-62.46	-13.00	-49.46

Table 7-7. Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	836.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.00	H	114	128	-64.98	-9.26	32.76	-62.50	-13.00	-49.50
2509.50	H	-	-	-66.51	-5.37	35.12	-60.14	-13.00	-47.14
3346.00	H	-	-	-66.28	-3.26	37.46	-57.80	-13.00	-44.80
4182.50	H	-	-	-72.02	-2.24	32.74	-62.52	-13.00	-49.52

Table 7-8. Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

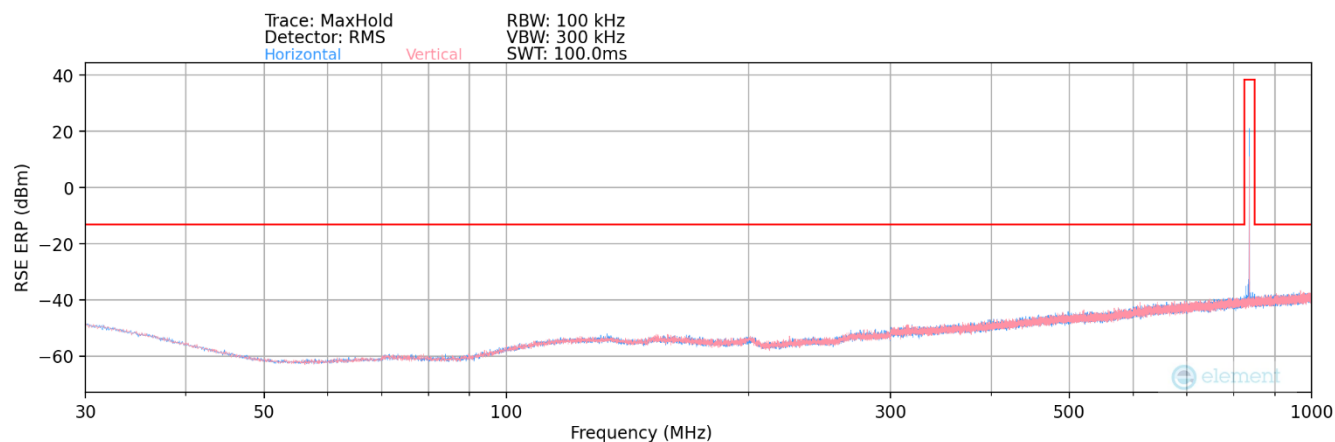
Bandwidth (MHz):	15
Frequency (MHz):	841.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1683.00	H	107	222	-65.91	-9.06	32.03	-63.22	-13.00	-50.22
2524.50	H	-	-	-67.39	-5.33	34.28	-60.98	-13.00	-47.98
3366.00	H	-	-	-65.35	-3.10	38.55	-56.71	-13.00	-43.71
4207.50	H	-	-	-71.93	-2.21	32.86	-62.40	-13.00	-49.40

Table 7-9. Radiated Spurious Data (LTE Band 26/5 – High Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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NR Band n5



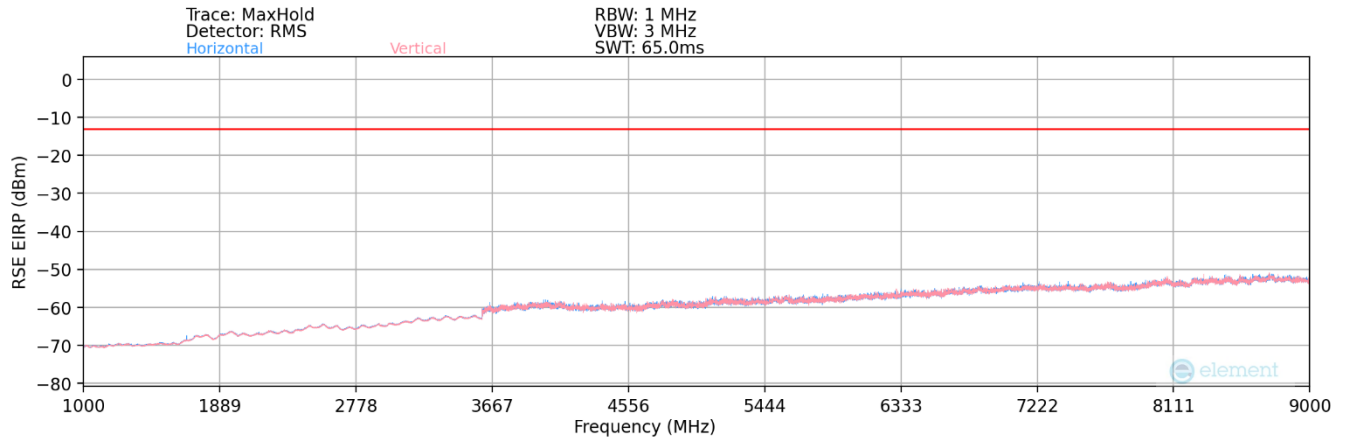
Plot 7-86. Radiated Spurious Plot (NR Band n5)

Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
123.22	H	-	-	-89.55	20.54	37.99	-59.42	-13.00	-46.42
216.66	H	-	-	-89.39	17.71	35.32	-62.09	-13.00	-49.09
394.71	H	-	-	-89.27	23.09	40.82	-56.59	-13.00	-43.59

Table 7-10. Radiated Spurious Data (NR Band n5 – Low Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-87. Radiated Spurious Plot (NR Band n5)

Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.00	H	117	175	-70.89	-9.37	26.74	-68.52	-13.00	-55.52
2502.00	H	-	-	-74.28	-5.51	27.21	-68.05	-13.00	-55.05
3336.00	H	-	-	-74.14	-3.37	29.49	-65.77	-13.00	-52.77
4170.00	H	-	-	-74.29	-2.13	30.58	-64.68	-13.00	-51.68

Table 7-11. Radiated Spurious Data (NR Band n5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.00	H	180	187	-71.40	-9.26	26.34	-68.92	-13.00	-55.92
2509.50	H	-	-	-74.79	-5.37	26.84	-68.42	-13.00	-55.42
3346.00	H	-	-	-73.90	-3.26	29.84	-65.42	-13.00	-52.42
4182.50	H	-	-	-74.15	-2.24	30.61	-64.65	-13.00	-51.65

Table 7-12. Radiated Spurious Data (NR Band n5 – Mid Channel)

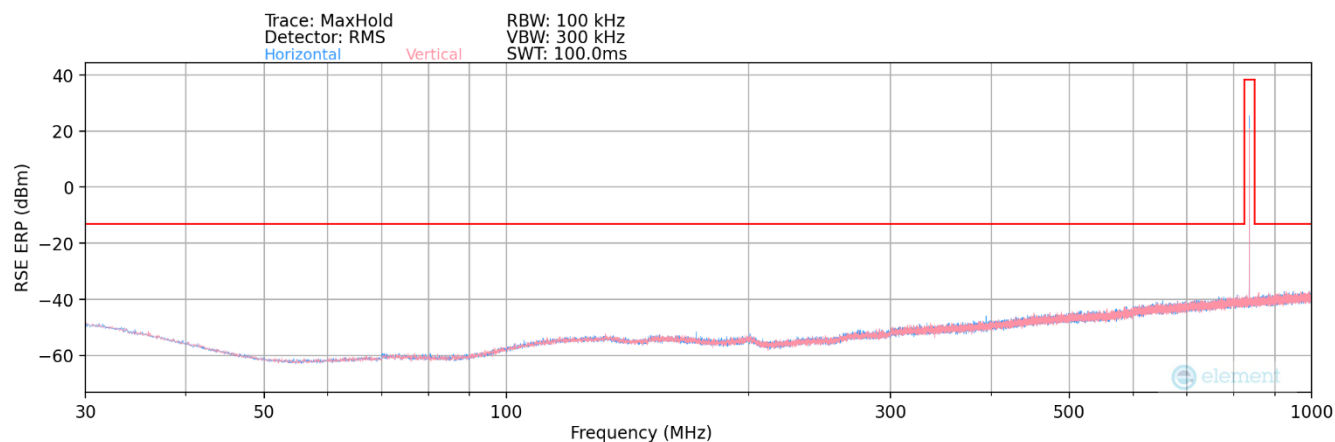
Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.00	H	238	183	-71.71	-9.15	26.14	-69.12	-13.00	-56.12
2517.00	H	-	-	-74.71	-5.35	26.94	-68.32	-13.00	-55.32
3356.00	H	-	-	-73.58	-3.17	30.25	-65.01	-13.00	-52.01
4195.00	H	-	-	-74.08	-2.27	30.65	-64.61	-13.00	-51.61

Table 7-13. Radiated Spurious Data (NR Band n5 – High Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell



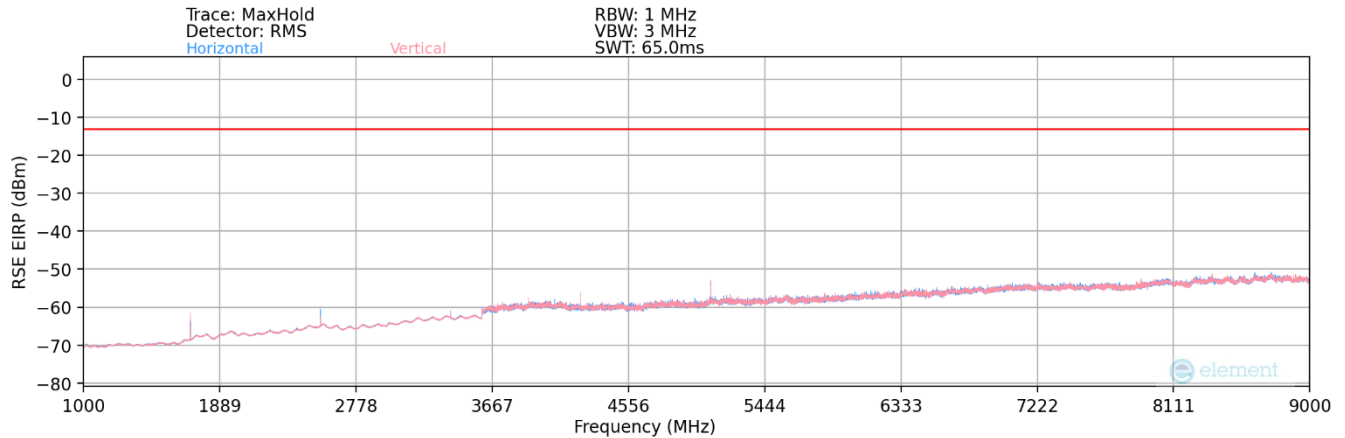
Plot 7-88. Radiated Spurious Plot (GPRS Cell)

Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
92.06	H	-	-	-84.13	15.07	37.94	-59.46	-13.00	-46.46
175.00	H	-	-	-83.12	18.68	42.56	-54.85	-13.00	-41.85
408.17	H	-	-	-83.87	23.51	46.64	-50.76	-13.00	-37.76

Table 7-14. Radiated Spurious Data (GPRS Cell – High Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-89. Radiated Spurious Plot (GPRS Cell)

Mode:	GPRS 1 Tx Slot
Channel:	128
Frequency (MHz):	824.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1648.40	H	225	81	-61.64	-9.83	35.53	-59.73	-13.00	-46.73
2472.60	H	150	217	-62.97	-5.82	38.21	-57.05	-13.00	-44.05
3296.80	H	251	262	-63.62	-3.50	39.88	-55.38	-13.00	-42.38
4121.00	H	246	254	-62.61	-1.63	42.76	-52.49	-13.00	-39.49
4945.20	H	217	175	-59.95	-1.38	45.67	-49.59	-13.00	-36.59
5769.40	H	323	219	-67.36	0.32	39.96	-55.30	-13.00	-42.30
6593.60	H	-	-	-73.16	1.85	35.69	-59.56	-13.00	-46.56
7417.80	H	-	-	-73.18	4.24	38.06	-57.19	-13.00	-44.19

Table 7-15. Radiated Spurious Data (GPRS Cell – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.20	H	126	189	-54.43	-9.25	43.32	-51.94	-13.00	-38.94
2509.80	H	178	209	-65.09	-5.37	36.54	-58.71	-13.00	-45.71
3346.40	H	229	159	-65.35	-3.26	38.39	-56.87	-13.00	-43.87
4183.00	H	239	259	-67.09	-2.24	37.67	-57.59	-13.00	-44.59
5019.60	H	134	245	-60.08	-1.04	45.88	-49.38	-13.00	-36.38
5856.20	H	244	273	-69.22	0.61	38.39	-56.87	-13.00	-43.87
6692.80	H	-	-	-73.04	2.74	36.70	-58.55	-13.00	-45.55
7529.40	H	-	-	-73.89	3.94	37.05	-58.21	-13.00	-45.21

Table 7-16. Radiated Spurious Data (GPRS Cell – Mid Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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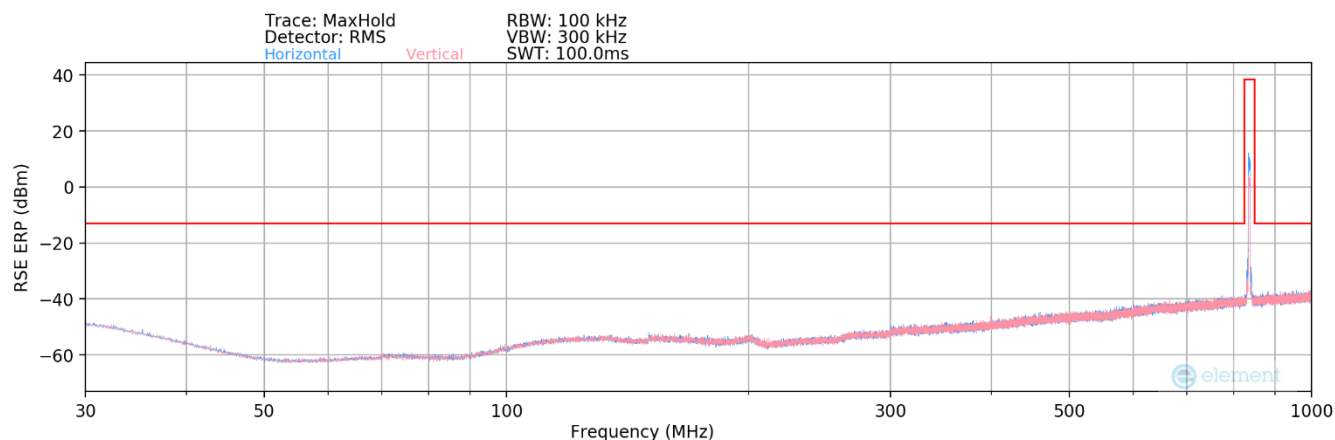
Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1697.60	H	208	196	-55.88	-8.81	42.31	-52.94	-13.00	-39.94
2546.40	H	201	207	-64.17	-5.36	37.47	-57.79	-13.00	-44.79
3395.20	H	197	271	-64.54	-3.16	39.30	-55.96	-13.00	-42.96
4244.00	H	194	336	-64.58	-2.35	40.07	-55.19	-13.00	-42.19
5092.80	H	174	177	-58.07	-0.24	48.69	-46.57	-13.00	-33.57
5941.60	H	221	345	-71.34	0.75	36.41	-58.85	-13.00	-45.85
6790.40	H	-	-	-73.52	3.17	36.65	-58.61	-13.00	-45.61
7639.20	H	-	-	-74.23	4.33	37.10	-58.16	-13.00	-45.16

Table 7-17. Radiated Spurious Data (GPRS Cell – High Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell



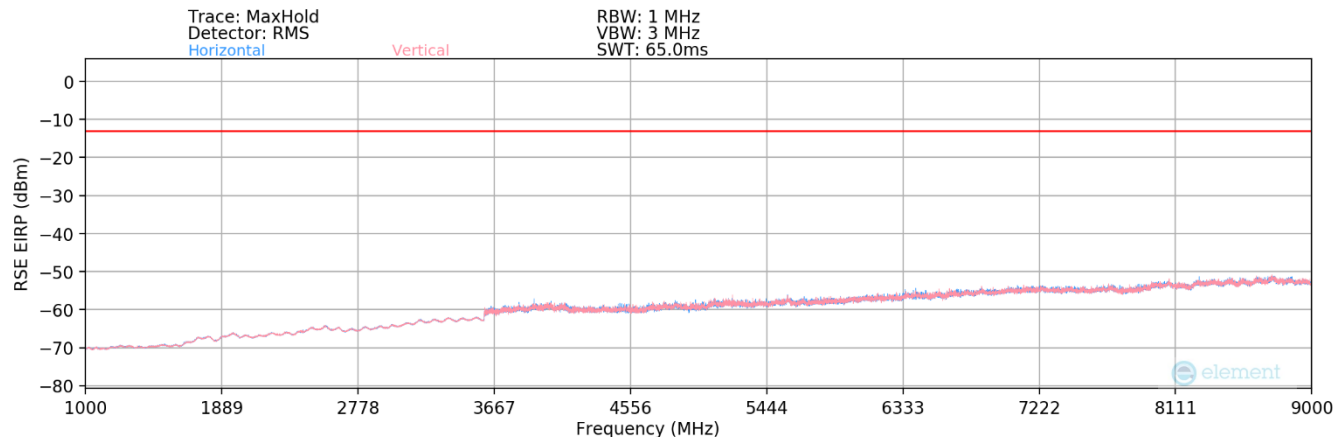
Plot 7-90. Radiated Spurious Plot (WCDMA Cell)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
320.30	H	-	-	-77.58	21.39	50.81	-46.59	-13.00	-33.59
333.75	H	-	-	-77.92	21.60	50.68	-46.73	-13.00	-33.73
412.15	H	-	-	-78.23	23.63	52.40	-45.01	-13.00	-32.01
542.80	H	-	-	-77.28	26.12	55.84	-41.57	-13.00	-28.57
723.15	H	-	-	-76.31	28.78	59.47	-37.94	-13.00	-24.94
780.00	H	-	-	-75.74	29.36	60.62	-36.79	-13.00	-23.79
882.50	H	-	-	-75.86	30.64	61.78	-35.63	-13.00	-22.63

Table 7-18. Radiated Spurious Data (WCDMA Cell – Mid Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-91. Radiated Spurious Plot (WCDMA Cell)

Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.80	H	107	1	-66.96	-9.74	30.30	-64.96	-13.00	-51.96
2479.20	H	107	202	-66.53	-5.76	34.71	-60.54	-13.00	-47.54
3305.60	H	107	339	-66.26	-3.48	37.26	-58.00	-13.00	-45.00
4132.00	H	-	-	-66.33	-1.66	39.01	-56.25	-13.00	-43.25
4958.40	H	-	-	-66.94	-1.19	38.87	-56.39	-13.00	-43.39
5784.80	H	-	-	-67.76	0.21	39.45	-55.80	-13.00	-42.80

Table 7-19. Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.20	H	107	143	-66.21	-9.25	31.54	-63.72	-13.00	-50.72
2509.80	H	107	10	-66.87	-5.37	34.76	-60.49	-13.00	-47.49
3346.40	H	-	-	-67.18	-3.26	36.56	-58.70	-13.00	-45.70
4183.00	H	-	-	-66.41	-2.24	38.35	-56.91	-13.00	-43.91
5019.60	H	-	-	-67.93	-1.04	38.03	-57.23	-13.00	-44.23

Table 7-20. Radiated Spurious Data (WCDMA Cell – Mid Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.20	H	112	13	-66.74	-8.87	31.39	-63.87	-13.00	-50.87
2539.80	H	151	123	-68.08	-5.35	33.57	-61.68	-13.00	-48.68
3386.40	H	-	-	-67.52	-3.10	36.38	-58.88	-13.00	-45.88
4233.00	H	-	-	-67.62	-2.26	37.12	-58.14	-13.00	-45.14
5079.60	H	-	-	-68.62	-0.50	37.88	-57.38	-13.00	-44.38

Table 7-21. Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 Frequency Stability / Temperature Variation

Test Overview and Limit

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

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

For Part 22 and RSS-132, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center 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

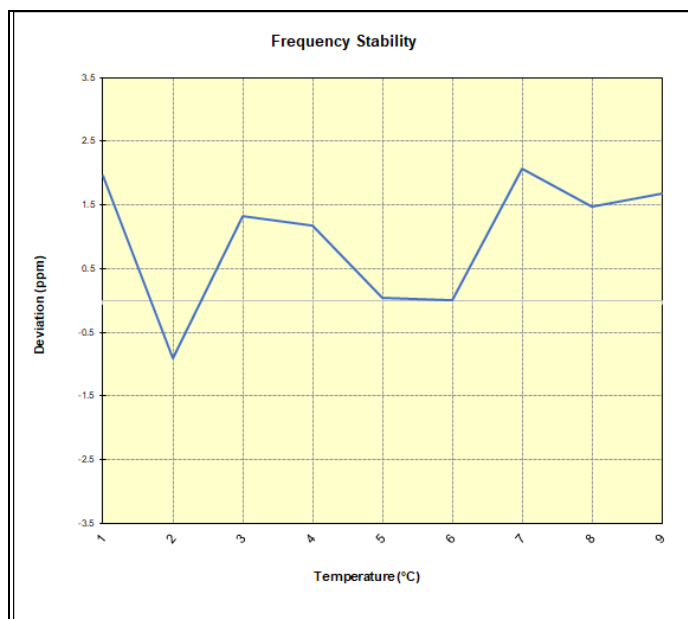
None

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LTE Band 26/5

LTE Band 26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		4.436	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	836,584,063	1,641	0.0001962
		- 20	836,581,667	-755	-0.0000902
		- 10	836,583,529	1,107	0.0001323
		0	836,583,402	980	0.0001171
		+ 10	836,582,451	29	0.0000035
		+ 20 (Ref)	836,582,422	0	0.0000000
		+ 30	836,584,159	1,737	0.0002076
		+ 40	836,583,664	1,242	0.0001485
		+ 50	836,583,833	1,411	0.0001687
Battery Endpoint	3.713	+ 20	836,582,851	429	0.0000513

Table 7-22. LTE Band 26/5 Frequency Stability Data



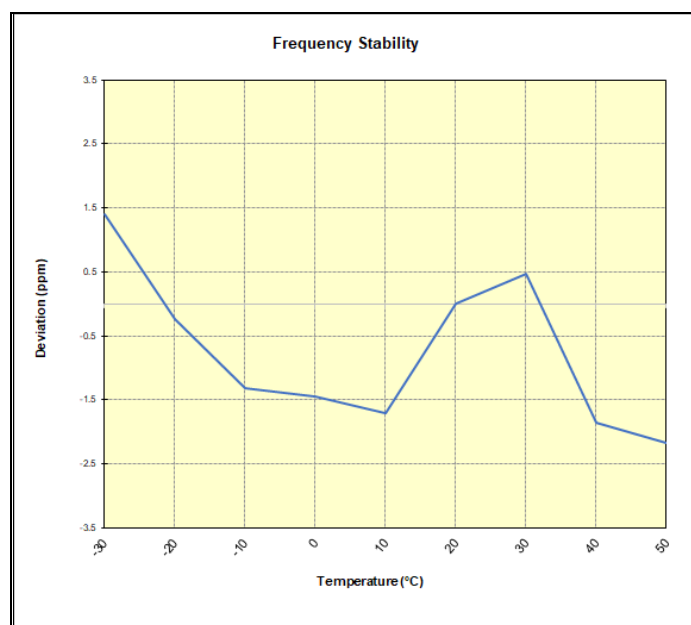
Plot 7-92. LTE Band 26/5 Frequency Stability Chart

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5

NR Band n5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		4.436	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	836,416,210	1,175	0.0001405
		- 20	836,414,841	-194	-0.0000232
		- 10	836,413,930	-1,105	-0.0001321
		0	836,413,834	-1,201	-0.0001436
		+ 10	836,413,608	-1,426	-0.0001705
		+ 20 (Ref)	836,415,035	0	0.0000000
		+ 30	836,415,431	397	0.0000474
		+ 40	836,413,482	-1,552	-0.0001856
		+ 50	836,413,223	-1,812	-0.0002166
Battery Endpoint	3.713	+ 20	836,415,040	5	0.0000007

Table 7-23. NR Band n5 Frequency Stability Data



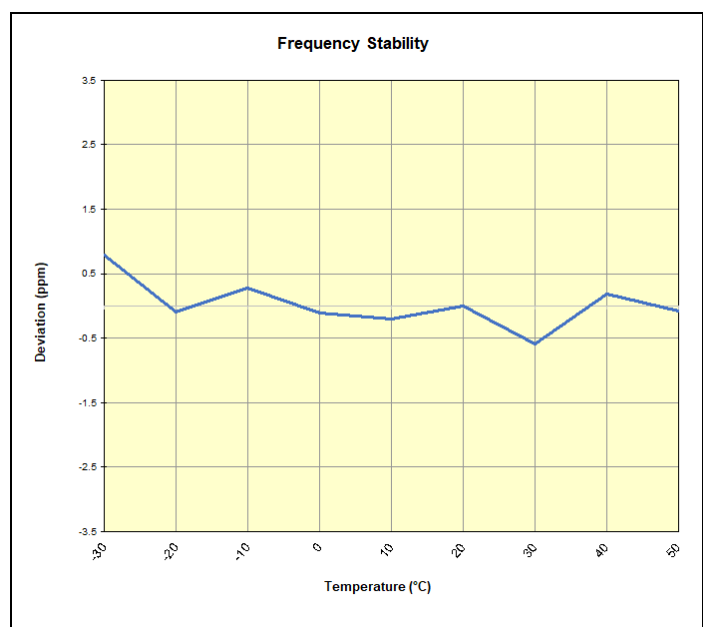
Plot 7-93. NR Band n5 Frequency Stability Chart

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell

GSM/GPRS Cellular					
Operating Frequency (Hz):			836,600,000		
Ref. Voltage (VDC):			4.436		
Deviation Limit:			± 0.00025% or 2.5 ppm		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	836,615,458	656	0.0000784
		- 20	836,614,728	-74	-0.0000088
		- 10	836,615,029	227	0.0000272
		0	836,614,715	-87	-0.0000104
		+ 10	836,614,638	-164	-0.0000197
		+ 20 (Ref)	836,614,802	0	0.0000000
		+ 30	836,614,311	-491	-0.0000587
		+ 40	836,614,953	151	0.0000180
		+ 50	836,614,739	-63	-0.0000076
Battery Endpoint	3.67	+ 20	836,614,771	-31	-0.0000037

Table 7-24. GSM/GPRS Cell Frequency Stability Data



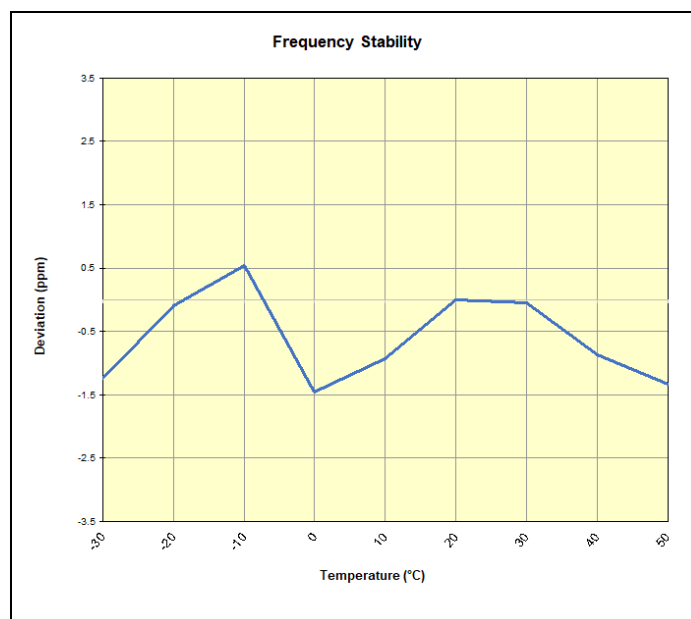
Plot 7-94. GSM/GPRS Cell Frequency Stability Chart

FCC ID: A3LSMX736B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell

WCDMA Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		4.436	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	836,596,095	-1,039	-0.0001242
		- 20	836,597,058	-75	-0.0000090
		- 10	836,597,583	449	0.0000537
		0	836,595,919	-1,214	-0.0001452
		+ 10	836,596,362	-772	-0.0000922
		+ 20 (Ref)	836,597,134	0	0.0000000
		+ 30	836,597,089	-45	-0.0000054
		+ 40	836,596,404	-729	-0.0000872
		+ 50	836,596,019	-1,114	-0.0001332
Battery Endpoint	3.713	+ 20	836,597,358	225	0.0000269

Table 7-25. WCDMA Cell Frequency Stability Data



Plot 7-95. WCDMA Cell Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMX736B** complies with all the requirements of Part 22 of the FCC rules.

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