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PART 22 & 90 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

09/02/2025 - 10/17/2025

Test Report Issue Date:

10/27/2025

Test Site/Location:

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

Test Report Serial No.:

1M2508250078-12.A3L

FCC ID:

A3LSMS948U

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-S948U

Additional Model:

SM-S948U1

EUT Type:

Portable Handset

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

§22(H), §90(S), §90(R)

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.

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

RJ Ortanez
Executive Vice President



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Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 1 of 127

TEST REPORT REVISION HISTORY

Rev. No.	Report S/N	Description	Issue Date
-	1M2508250078-12.A3L	Initial Release	10/27/2025

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Antenna-1							
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	Max. Power [W]	Max. Power [dBm]	Emission Designator
LTE Band 14	10 MHz	QPSK	793.0	ERP	0.129	21.12	9M06G7D
		16QAM	793.0	ERP	0.107	20.31	9M06W7D
	5 MHz	QPSK	790.5 - 795.5	ERP	0.128	21.08	4M54G7D
		16QAM	790.5 - 795.5	ERP	0.112	20.51	4M55W7D
LTE Band 26	15 MHz	QPSK	821.5	ERP	0.103	20.14	13M6G7D
		16QAM	821.5	ERP	0.087	19.38	13M6W7D
	15 MHz	QPSK	821.5	Conducted	0.277	24.43	13M6G7D
		16QAM	821.5	Conducted	0.236	23.73	13M6W7D
	10 MHz	QPSK	819.0	Conducted	0.280	24.47	9M09G7D
		16QAM	819.0	Conducted	0.242	23.84	9M09W7D
	5 MHz	QPSK	816.5 - 821.5	Conducted	0.284	24.54	4M60G7D
		16QAM	816.5 - 821.5	Conducted	0.234	23.70	4M60W7D
	3 MHz	QPSK	815.5 - 822.5	Conducted	0.282	24.51	2M78G7D
		16QAM	815.5 - 822.5	Conducted	0.246	23.92	2M77W7D
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	0.282	24.50	1M14G7D
		16QAM	814.7 - 823.3	Conducted	0.236	23.72	1M14W7D
NR Band n14	10 MHz	$\pi/2$ BPSK	793.0	ERP	0.123	20.91	9M05G7D
		QPSK	793.0	ERP	0.122	20.88	9M39G7D
		16QAM	793.0	ERP	0.097	19.89	9M38W7D
	5 MHz	$\pi/2$ BPSK	790.5 - 795.5	ERP	0.128	21.06	4M55G7D
		QPSK	790.5 - 795.5	ERP	0.130	21.13	4M59G7D
		16QAM	790.5 - 795.5	ERP	0.105	20.21	4M60W7D
	20 MHz	$\pi/2$ BPSK	824.0	ERP	0.117	20.67	18M0G7D
		QPSK	824.0	ERP	0.117	20.68	19M0G7D
		16QAM	824.0	ERP	0.063	18.02	19M1W7D
	15 MHz	$\pi/2$ BPSK	821.5	ERP	0.114	20.58	13M5G7D
		QPSK	821.5	ERP	0.118	20.71	14M1G7D
		16QAM	821.5	ERP	0.061	17.86	14M2W7D
	20 MHz	$\pi/2$ BPSK	824.0	Conducted	0.278	24.44	18M0G7D
		QPSK	824.0	Conducted	0.273	24.36	19M0G7D
		16QAM	824.0	Conducted	0.213	23.29	19M1W7D
	15 MHz	$\pi/2$ BPSK	821.5	Conducted	0.272	24.35	13M5G7D
		QPSK	821.5	Conducted	0.275	24.39	14M1G7D
		16QAM	821.5	Conducted	0.205	23.13	14M2W7D
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	0.270	24.31	9M03G7D
		QPSK	819.0	Conducted	0.267	24.26	9M36G7D
		16QAM	819.0	Conducted	0.210	23.22	9M37W7D
	5 MHz	$\pi/2$ BPSK	816.5 - 821.5	Conducted	0.275	24.40	4M55G7D
		QPSK	816.5 - 821.5	Conducted	0.275	24.40	4M54G7D
		16QAM	816.5 - 821.5	Conducted	0.220	23.43	4M55W7D

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Antenna-2							
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	Max. Power [W]	Max. Power [dBm]	Emission Designator
LTE Band 14	10 MHz	QPSK	793.0	ERP	0.068	18.34	9M08G7D
		16QAM	793.0	ERP	0.058	17.66	9M06W7D
	5 MHz	QPSK	790.5 - 795.5	ERP	0.072	18.55	4M54G7D
		16QAM	790.5 - 795.5	ERP	0.058	17.66	4M53W7D
LTE Band 26	15 MHz	QPSK	821.5	ERP	0.066	18.23	13M6G7D
		16QAM	821.5	ERP	0.058	17.66	13M6W7D
	15 MHz	QPSK	821.5	Conducted	0.275	24.39	13M6G7D
		16QAM	821.5	Conducted	0.214	23.31	13M6W7D
	10 MHz	QPSK	819.0	Conducted	0.268	24.29	9M07G7D
		16QAM	819.0	Conducted	0.260	24.14	9M07W7D
	5 MHz	QPSK	816.5 - 821.5	Conducted	0.273	24.36	4M55G7D
		16QAM	816.5 - 821.5	Conducted	0.237	23.75	4M55W7D
	3 MHz	QPSK	815.5 - 822.5	Conducted	0.269	24.29	2M73G7D
		16QAM	815.5 - 822.5	Conducted	0.221	23.44	2M74W7D
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	0.268	24.28	1M11G7D
		16QAM	814.7 - 823.3	Conducted	0.222	23.46	1M11W7D
NR Band n14	10 MHz	$\pi/2$ BPSK	793.0	ERP	0.054	17.35	9M33G7D
		QPSK	793.0	ERP	0.054	17.30	9M34G7D
		16QAM	793.0	ERP	0.044	16.39	9M37W7D
	5 MHz	$\pi/2$ BPSK	790.5 - 795.5	ERP	0.058	17.60	4M54G7D
		QPSK	790.5 - 795.5	ERP	0.055	17.41	4M54G7D
		16QAM	790.5 - 795.5	ERP	0.048	16.82	4M53W7D
	20 MHz	$\pi/2$ BPSK	824.0	ERP	0.068	18.32	18M0G7D
		QPSK	824.0	ERP	0.067	18.29	19M2G7D
		16QAM	824.0	ERP	0.056	17.46	19M2W7D
	15 MHz	$\pi/2$ BPSK	821.5	ERP	0.070	18.44	13M6G7D
		QPSK	821.5	ERP	0.069	18.37	14M4G7D
		16QAM	821.5	ERP	0.057	17.53	14M4W7D
	20 MHz	$\pi/2$ BPSK	824.0	Conducted	0.246	23.92	18M0G7D
		QPSK	824.0	Conducted	0.248	23.94	19M2G7D
		16QAM	824.0	Conducted	0.194	22.87	19M2W7D
	15 MHz	$\pi/2$ BPSK	821.5	Conducted	0.253	24.04	13M6G7D
		QPSK	821.5	Conducted	0.252	24.02	14M4G7D
		16QAM	821.5	Conducted	0.197	22.94	14M4W7D
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	0.250	23.97	9M06G7D
		QPSK	819.0	Conducted	0.258	24.12	9M50G7D
		16QAM	819.0	Conducted	0.199	23.00	9M49W7D
	5 MHz	$\pi/2$ BPSK	816.5 - 821.5	Conducted	0.264	24.21	4M55G7D
		QPSK	816.5 - 821.5	Conducted	0.259	24.13	4M62G7D
		16QAM	816.5 - 821.5	Conducted	0.216	23.35	4M60W7D

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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

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

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

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and 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 Agreement.

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMS948U**. 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 90 and 22H.

Test Device Serial No.: 0489M, 0734M, 0789M, 0490M, 0544M

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 and FR2), 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, UWB, NTN, SCS

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 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-2400 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

Band	Ant1	Ant2
LTE Band B14	Ant E	Ant A
NR Band n14	Ant E	Ant A
LTE Band B26/5	Ant E	Ant A
NR Band n25/5	Ant E	Ant A

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version S948USQU0AYIB 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.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious Emissions

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

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

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

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

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

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

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

And

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

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

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

Table 4-1. Measurement Uncertainty Budget – MD

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

Table 4-2. Measurement Uncertainty Budget – EK

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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
-	LTx1	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx1
-	LTx2	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx2
-	LTx3	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx3
-	LTx4	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx4
-	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	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS
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	CMW500	Wideband Radio Communication Tester	N/A			100976
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	ESW44	EMI Test Receiver (44 GHz)	3/25/2025	Annual	3/25/2026	101716
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 – MD

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9030A	PXA Signal Analyzer	5/23/2025	Annual	5/22/2026	MY49432391
Anritsu	S820E	Cable and Antenna Analyzer	6/13/2025	Annual	6/12/2026	1839097
Rohde & Schwarz	NRP-Z81	POWER SENSOR	5/23/2025	Annual	5/22/2026	101499
Anritsu	MT8000A	Radio Communicatino Test Station	11/12/2024	Annual	11/11/2025	6272337405
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	10/10/2024	Biennial	10/9/2026	10160045
Espec	SH-242	Environmental Chamber	9/17/2025	Annual	9/16/2026	93011064
Fairview Microwave	FM2CP1122-10	2.92mm Directional Coupler	7/17/2025	Annual	7/16/2026	1946
Keysight Technologies	N9030B	PXA Signal Analyzer	7/7/2025	Annual	7/6/2026	MY57143278
Mini-Circuits	BW-N10W5+	Attenuator	7/3/2025	Annual	7/2/2026	TEMPNO.01-151
Mini-Circuits	BW-N10W5+	Attenuator	7/17/2025	Annual	7/16/2026	TEMPNO.01-150
NARDA	180-442A-KF	Horn Antenna (small)	1/13/2025	Annual	1/12/2026	180-442A-KF
Rohde & Schwarz	SMF100A	Signal Generator	7/3/2025	Annual	7/2/2026	104154
Rohde & Schwarz	CMW500	Wideband Radio Communicatino Tester	1/6/2025	Annual	1/5/2026	171075
Rohde & Schwarz	FSW	Signal and Spectrum Analyzer	9/15/2025	Annual	9/14/2026	101955
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	1/6/2025	Annual	1/5/2026	103295
Schwarzbeck	VULB9162	Broadband TRILOG Antenna	6/5/2025	Biennial	6/4/2027	9162-217
Sunol	DRH-118	Horn Antenna	6/4/2025	Annual	6/3/2026	A102416-1

Table 5-2. Test Equipment – EK

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.

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6.0 SAMPLE CALCULATIONS

Emission Designator

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

Spurious Radiated Emission – LTE Band

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The average spectrum analyzer reading at 3 meters with the EUT on the turntable was –81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of –81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564 MHz. So 6.1 dB is added to the signal generator reading of –30.9 dBm yielding –24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm – (-24.80) = 50.3 dBc.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMS948U
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference	Test Lab Location
CONDUCTED	Transmitter Conducted Output Power*	2.1046(a), 90.635(b)	< 100 Watts	PASS	Section 7.2	EK
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3	EK
	Conducted Band Edge / Spurious Emissions (LTE Band 14; NR Band n14)	2.1051, 90.543(c)(e)	On all frequencies between 769-775 MHz and 799-805 MHz, attenuation by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, attenuation by at least $43 + 10 \log(P)$ dB $> 43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions outside of those specified in 90.543(e)	PASS	Sections 7.4, 7.5	EK
	Conducted Band Edge / Spurious Emissions (LTE Band 26; NR Band n26; CDMA BC10)	2.1051, 90.691(a)	$> 43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions except emissions beyond 37.5kHz from the block edge $> 50 + 10 \log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Sections 7.4, 7.5	EK
	Peak-to-Average Ratio	N/A	≤ 13 dB	PASS	Section 7.6	EK
	Frequency Stability	2.1055, 90.213	< 2.5 ppm **Fundamental emissions stay within authorized frequency block	PASS	Section 7.9	MD
RADIATED	Effective Radiated Power (LTE Band 14; NR Band n14)	90.542(a)(7)	< 3 Watts max. ERP	PASS	Section 7.7	EK
	Effective Radiated Power (LTE Band 26; NR Band n26; CDMA BC10)	22.913(a)(2)	< 7 Watts max. ERP	PASS	Section 7.7	EK
	Radiated Spurious Emissions (LTE Band 14; NR Band n14)	2.1053, 90.543(e)(f)	$> 43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions except emissions in the 1559 - 1610MHz band are subject to a limit of -40dBm/MHz for wideband signals	PASS	Section 7.8	MD
	Radiated Spurious Emissions (LTE Band 26; NR Band n26; CDMA BC10)	2.1053, 90.691(a)	$> 43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions except emissions beyond 37.5kHz from the block edge $> 50 + 10 \log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Section 7.8	MD

* The only transmitter output conducted powers included in this report are those where the Pmax value, per the tune-up document, is higher than any of the DSI power levels. For the remaining conducted power measurements, see the **RF Exposure Report**.

Table 7-1. Summary of Test Results

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Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in Section 7.0 were 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) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.3.2.

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7.2 Conducted Output Power Data

Test Overview

All emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. 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

Test Settings

1. Span = 2 x OBW to 3 x OBW
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.

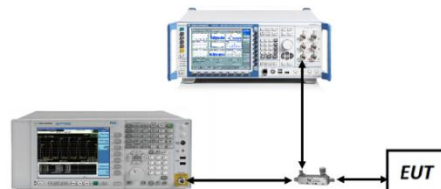


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
2. Conducted power measurements were evaluated using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
3. All other conducted power measurements are contained in the RF exposure report for this filing.
4. Conducted power was found to reduce for the higher order QAM modulations when compared to 16QAM. Due to this trend, only the worst-case QAM (16QAM) powers are included in this section.

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
10 MHz	QPSK	23330	793.0	1 / 0	24.61	0.289	50.00	-25.39
	16-QAM	23330	793.0	1 / 25	23.63	0.231	50.00	-26.37
5 MHz	QPSK	23305	790.5	1 / 0	24.57	0.287	50.00	-25.43
		23330	793.0	1 / 24	24.42	0.277	50.00	-25.58
		23355	795.5	1 / 24	24.32	0.270	50.00	-25.68
	16-QAM	23305	790.5	1 / 0	23.84	0.242	50.00	-26.16
		23330	793.0	1 / 24	23.67	0.233	50.00	-26.33
		23355	795.5	1 / 24	23.46	0.222	50.00	-26.54

Table 7-2. LTE Band 14 Conducted Powers – Ant 1

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
10 MHz	$\pi/2$ BPSK	158600	793.0	1 / 26	24.30	0.269	50.00	-25.70
	QPSK	158600	793.0	1 / 50	24.16	0.260	50.00	-25.84
	16-QAM	158600	793.0	1 / 26	23.15	0.206	50.00	-26.85
5 MHz	$\pi/2$ BPSK	158100	790.5	1 / 12	24.40	0.275	50.00	-25.60
		158600	793.0	1 / 12	24.25	0.266	50.00	-25.75
		159100	795.5	1 / 12	24.45	0.279	50.00	-25.55
	QPSK	158100	790.5	1 / 23	24.41	0.276	50.00	-25.59
		158600	793.0	1 / 12	24.36	0.273	50.00	-25.64
		159100	795.5	1 / 23	24.25	0.266	50.00	-25.75
	16-QAM	158100	790.5	1 / 12	23.46	0.222	50.00	-26.54
		158600	793.0	1 / 12	23.23	0.210	50.00	-26.77
		159100	795.5	1 / 12	23.48	0.223	50.00	-26.52

Table 7-3. NR Band n14 Conducted Powers – Ant 1

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
15 MHz	QPSK	26765	821.5	1 / 37	24.43	0.277	50.00	-25.57
	16-QAM	26765	821.5	1 / 37	23.73	0.236	50.00	-26.27
10 MHz	QPSK	26740	819.0	1 / 0	24.47	0.280	50.00	-25.53
	16-QAM	26740	819.0	1 / 0	23.84	0.242	50.00	-26.16
5 MHz	QPSK	26715	816.5	1 / 12	24.47	0.280	50.00	-25.53
		26765	821.5	1 / 0	24.54	0.284	50.00	-25.46
	16-QAM	26715	816.5	1 / 12	23.70	0.234	50.00	-26.30
		26765	821.5	1 / 0	23.63	0.231	50.00	-26.37
3 MHz	QPSK	26705	815.5	1 / 7	24.51	0.282	50.00	-25.49
		26775	822.5	1 / 7	24.45	0.278	50.00	-25.55
	16-QAM	26705	815.5	1 / 7	23.84	0.242	50.00	-26.16
		26775	822.5	1 / 7	23.92	0.246	50.00	-26.08
1.4 MHz	QPSK	26697	814.7	1 / 3	24.42	0.277	50.00	-25.58
		26783	823.3	1 / 3	24.50	0.282	50.00	-25.50
	16-QAM	26697	814.7	1 / 3	23.66	0.232	50.00	-26.34
		26783	823.3	1 / 3	23.72	0.236	50.00	-26.28

Table 7-4. LTE Band 26 Conducted Powers – Ant 1

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	164800	824.0	1 / 104	24.44	0.278	50.00	-25.56
	QPSK	164800	824.0	1 / 53	24.36	0.273	50.00	-25.64
	16-QAM	164800	824.0	1 / 104	23.29	0.213	50.00	-26.71
15 MHz	$\pi/2$ BPSK	164300	821.5	1 / 77	24.35	0.272	50.00	-25.65
	QPSK	164300	821.5	1 / 77	24.39	0.275	50.00	-25.61
	16-QAM	164300	821.5	1 / 77	23.13	0.205	50.00	-26.87
10 MHz	$\pi/2$ BPSK	163800	819.0	1 / 26	24.31	0.270	50.00	-25.69
	QPSK	163800	819.0	1 / 50	24.26	0.267	50.00	-25.74
	16-QAM	163800	819.0	1 / 26	23.22	0.210	50.00	-26.78
5 MHz	$\pi/2$ BPSK	163300	816.5	1 / 23	24.37	0.273	50.00	-25.63
		164300	821.5	1 / 23	24.40	0.275	50.00	-25.60
	QPSK	163300	816.5	1 / 12	24.40	0.275	50.00	-25.60
		164300	821.5	1 / 12	24.37	0.274	50.00	-25.63
	16-QAM	163300	816.5	1 / 12	23.43	0.220	50.00	-26.57
		164300	821.5	1 / 12	23.25	0.212	50.00	-26.75

Table 7-5. NR Band n26 Conducted Powers – Ant 1

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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.

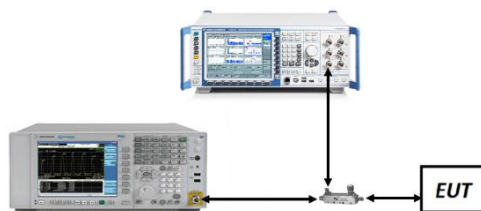


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None

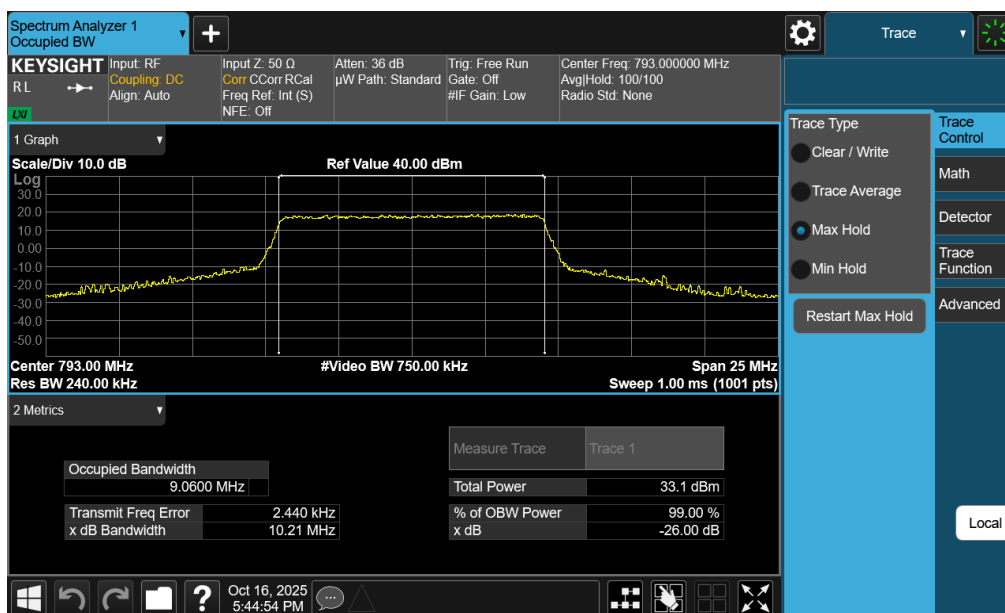
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B14	10 MHz	QPSK	9.06
		16QAM	9.06
	5 MHz	QPSK	4.54
		16QAM	4.55
LTE-B26	15 MHz	QPSK	13.58
		16QAM	13.58
	10 MHz	QPSK	9.09
		16QAM	9.09
	5 MHz	QPSK	4.60
		QPSK	4.57
		16QAM	4.60
		16QAM	4.56
	3 MHz	QPSK	2.78
		QPSK	2.73
		16QAM	2.77
		16QAM	2.73
	1.4 MHz	QPSK	1.14
		QPSK	1.11
		16QAM	1.14
		16QAM	1.11
NR-n14	10 MHz	$\pi/2$ BPSK	9.05
		QPSK	9.39
		16QAM	9.38
	5 MHz	$\pi/2$ BPSK	4.55
		QPSK	4.59
		16QAM	4.60
NR-n26	20 MHz	$\pi/2$ BPSK	18.03
		QPSK	18.97
		16QAM	19.08
	15 MHz	$\pi/2$ BPSK	13.53
		QPSK	14.15
		16QAM	14.23
	10 MHz	$\pi/2$ BPSK	9.03
		QPSK	9.36
		16QAM	9.37
	5 MHz	$\pi/2$ BPSK	4.54
		$\pi/2$ BPSK	4.55
		QPSK	4.54
		QPSK	4.52
		16QAM	4.55
		16QAM	4.53
		16QAM	4.53

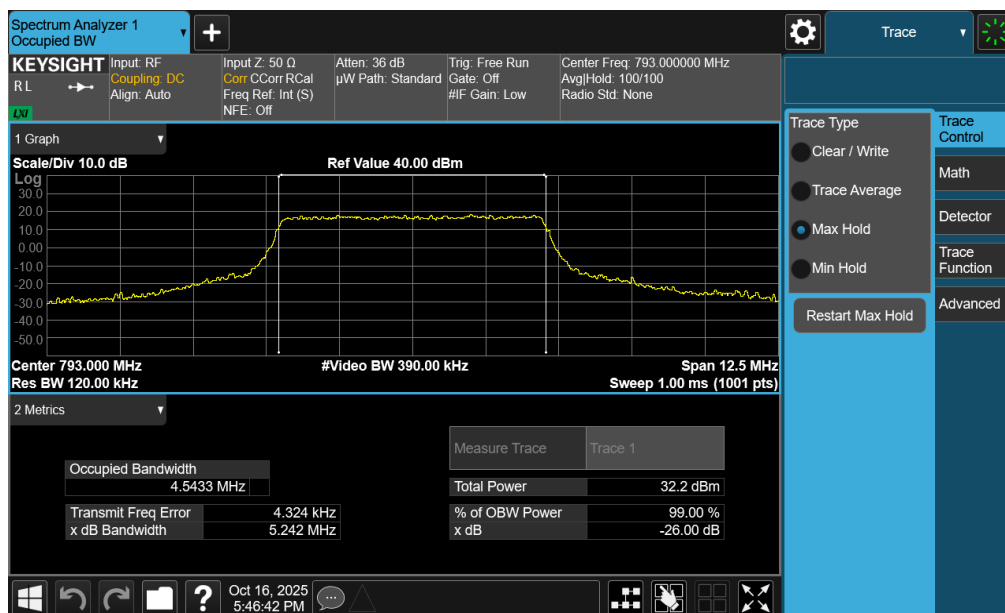
Table 7-6. Occupied Bandwidth Results – Ant 1

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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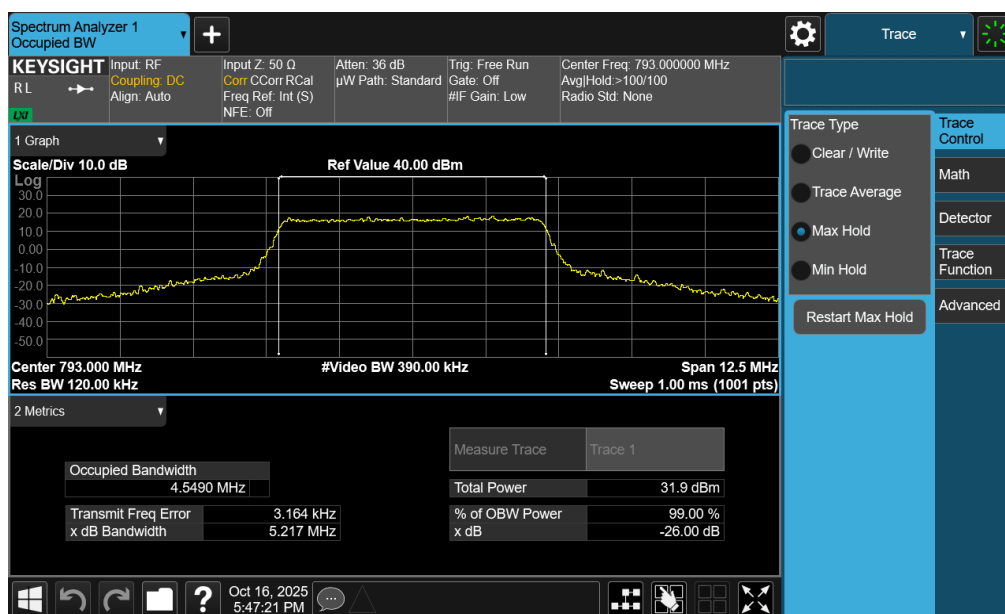
LTE Band 14 – Ant 1



FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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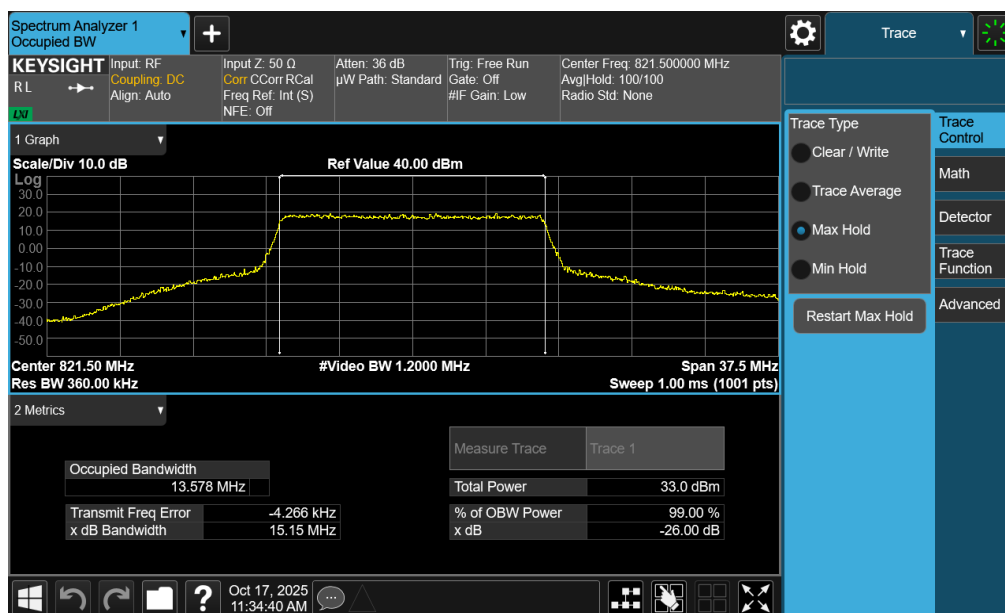
Plot 7-3. Occupied Bandwidth Plot (LTE Band 14 - 5MHz QPSK - Full RB)



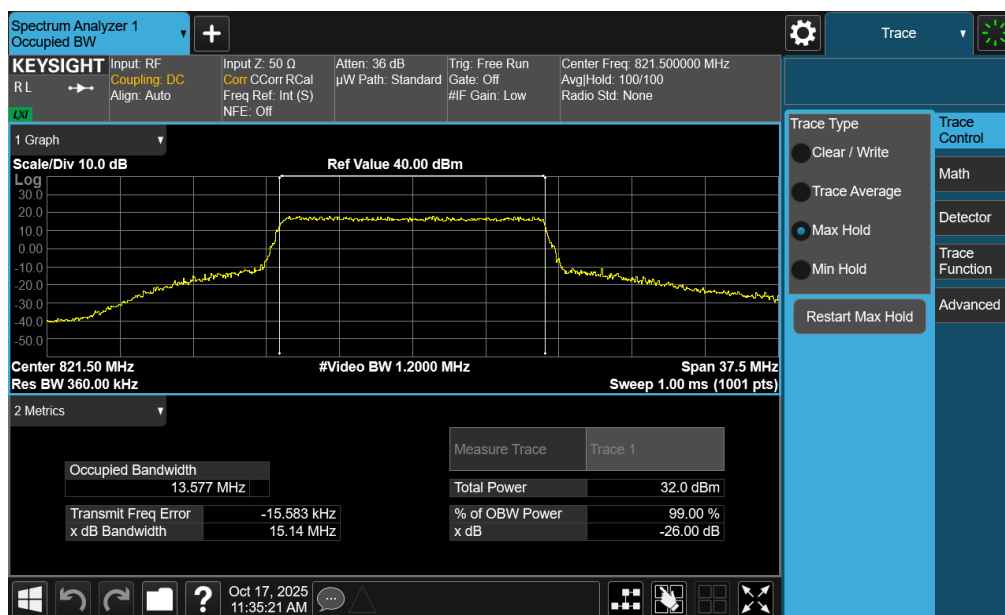
Plot 7-4. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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LTE Band 26 – Ant 1

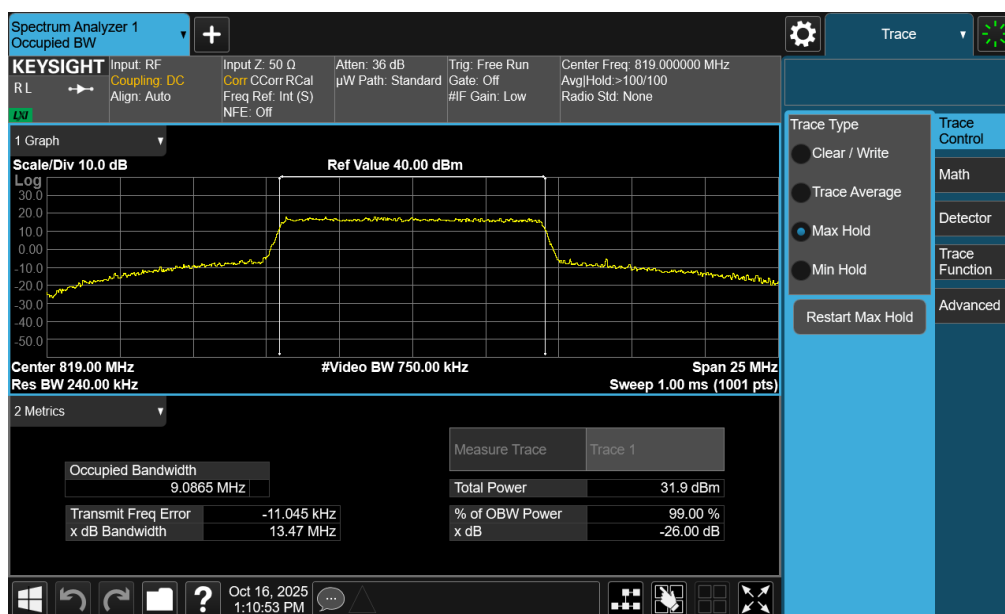


Plot 7-5. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB)

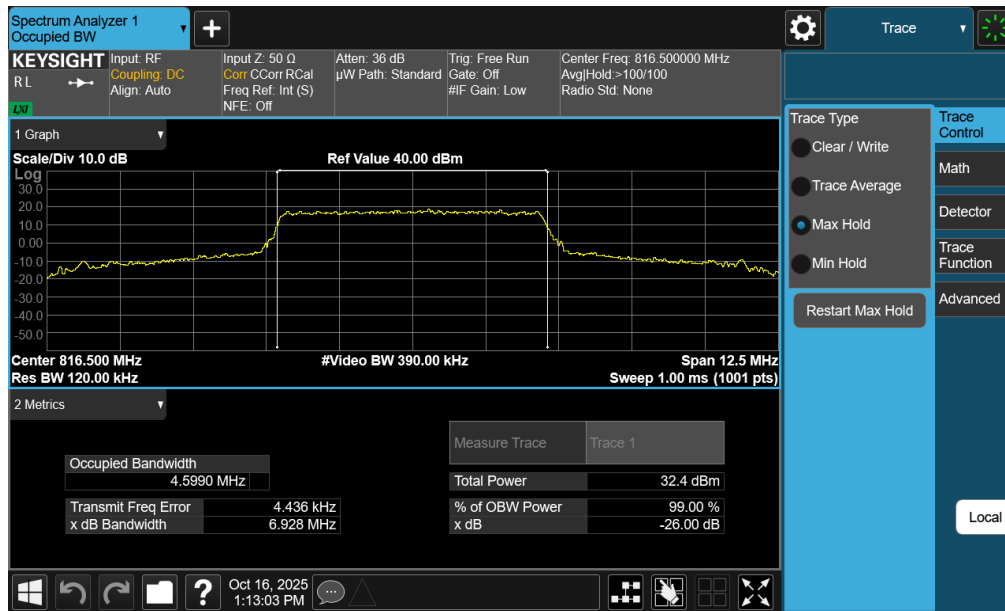


Plot 7-6. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB)

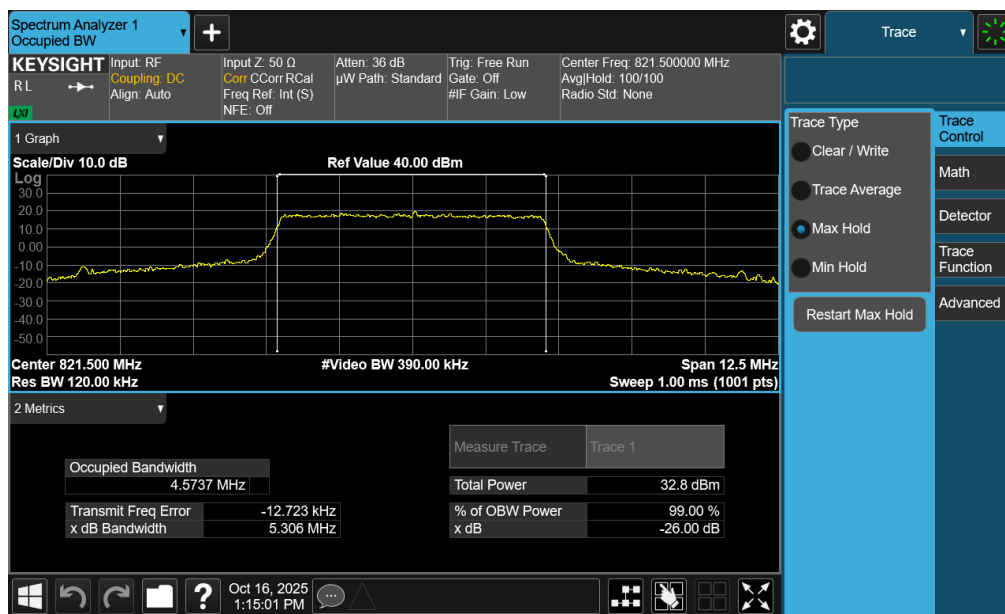
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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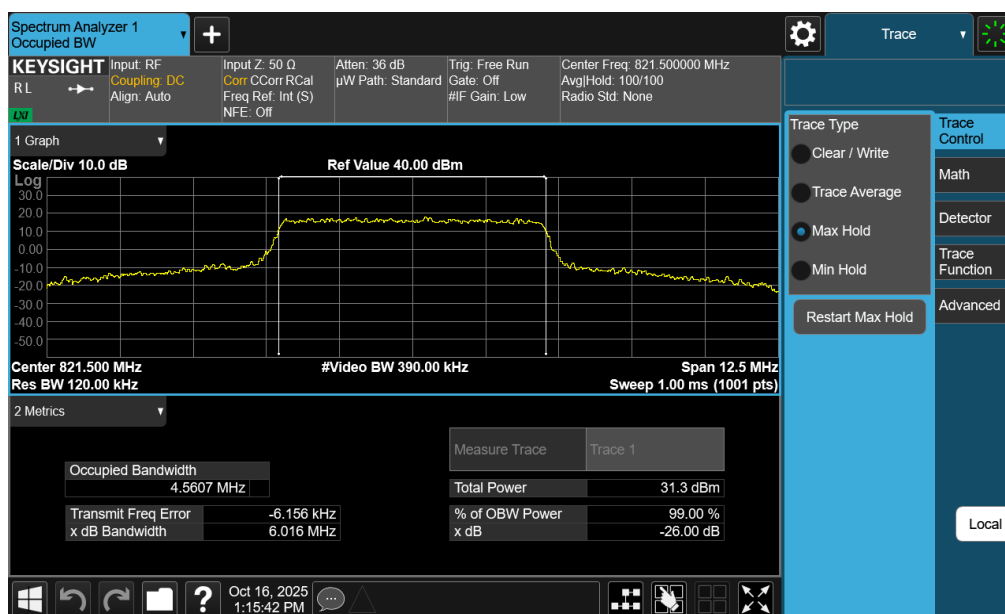
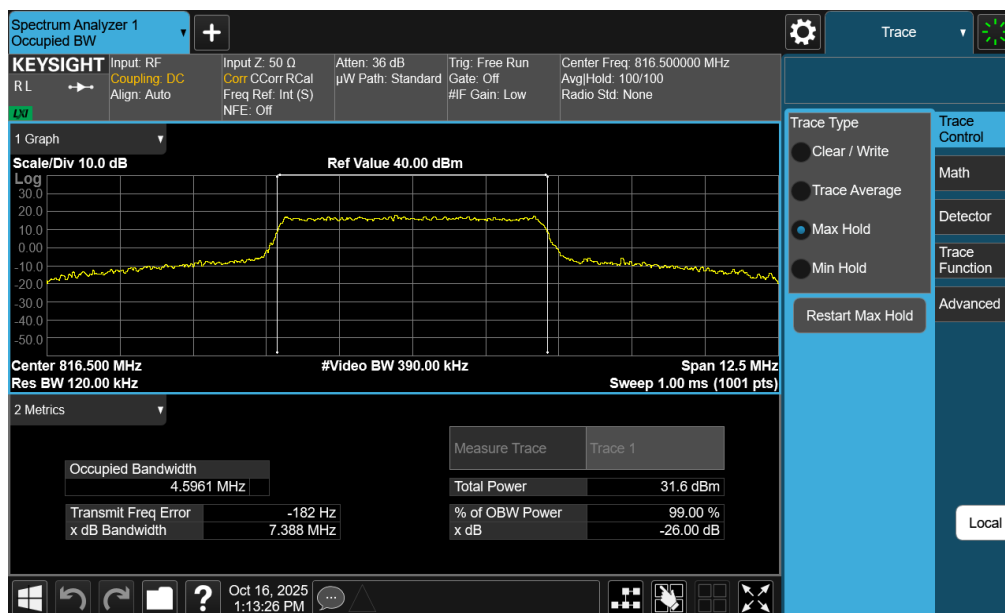


Plot 7-9. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK Low Channel- Full RB)

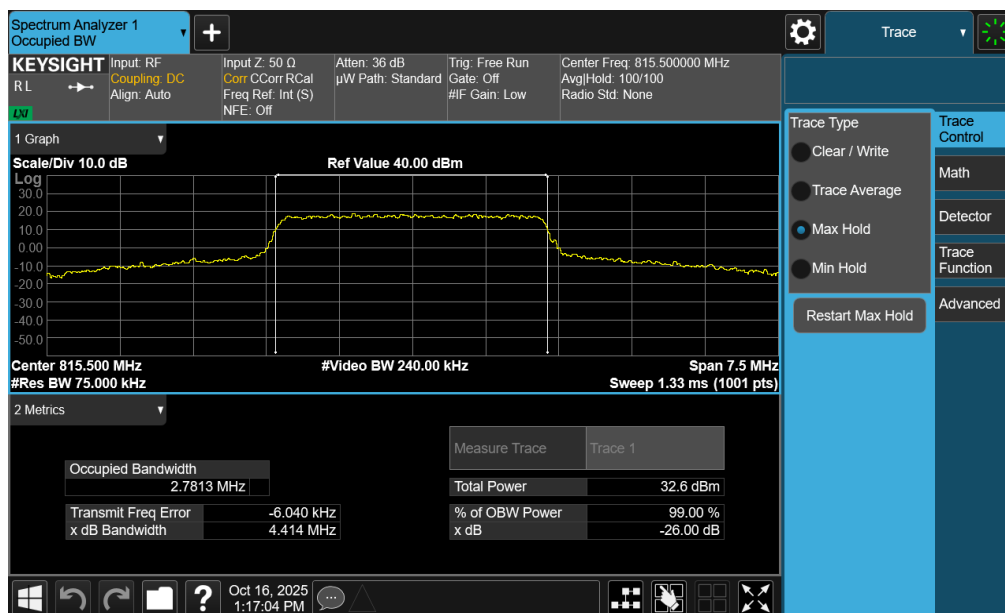


Plot 7-10. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK High Channel - Full RB)

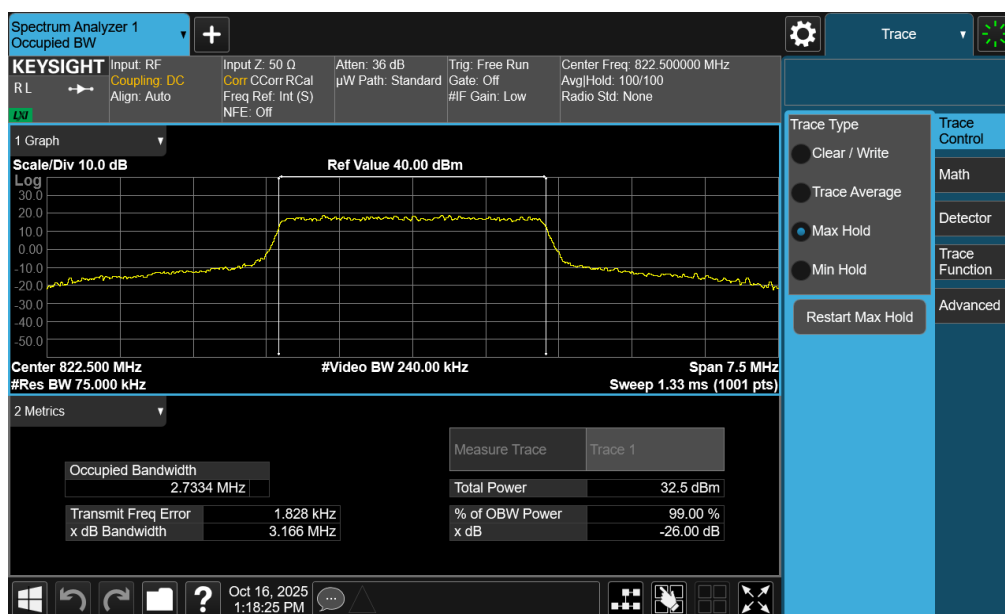
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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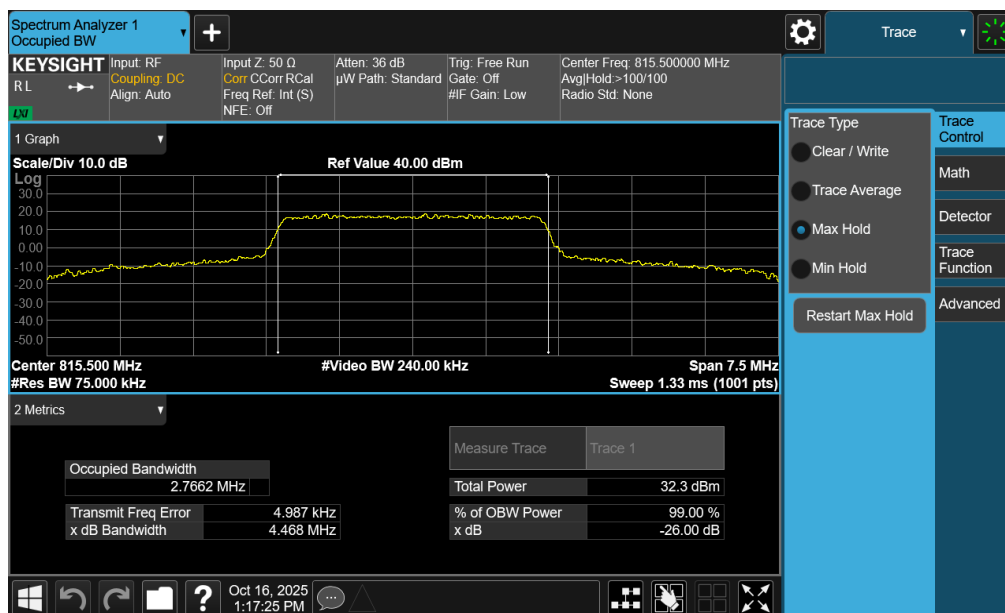


Plot 7-13. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK Low Channel- Full RB)

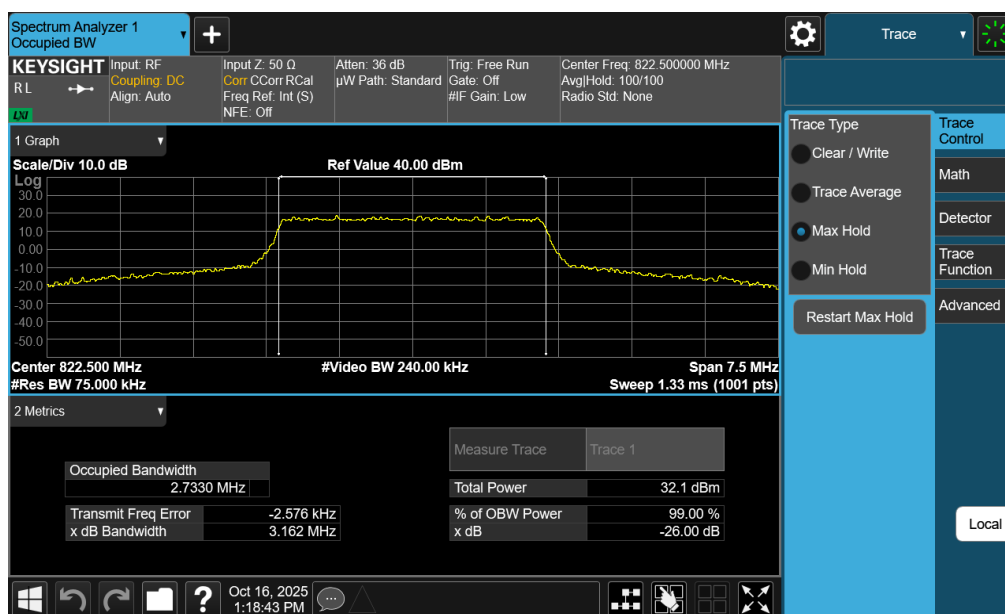


Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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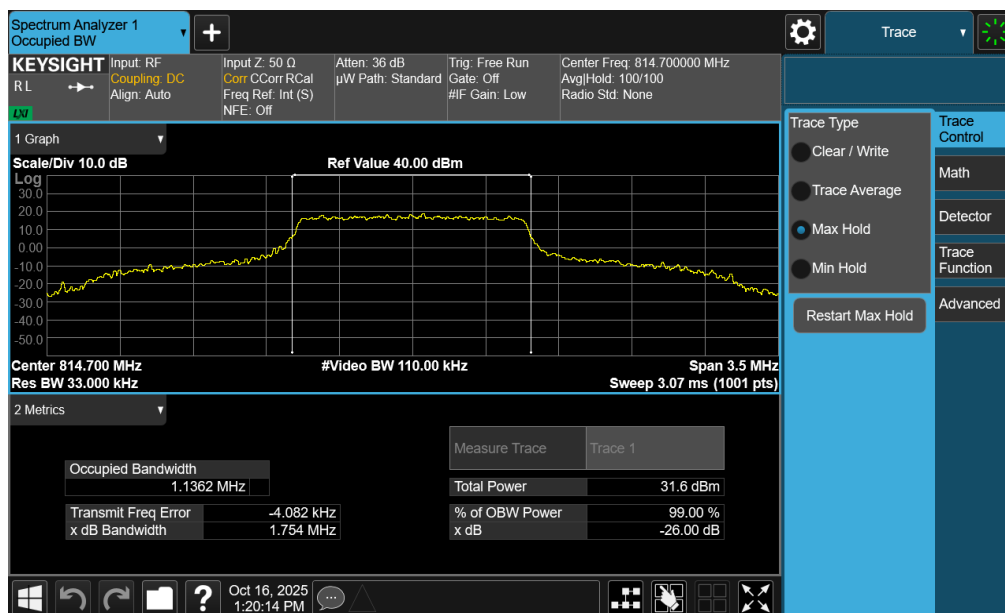


Plot 7-15. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM Low Channel - Full RB)

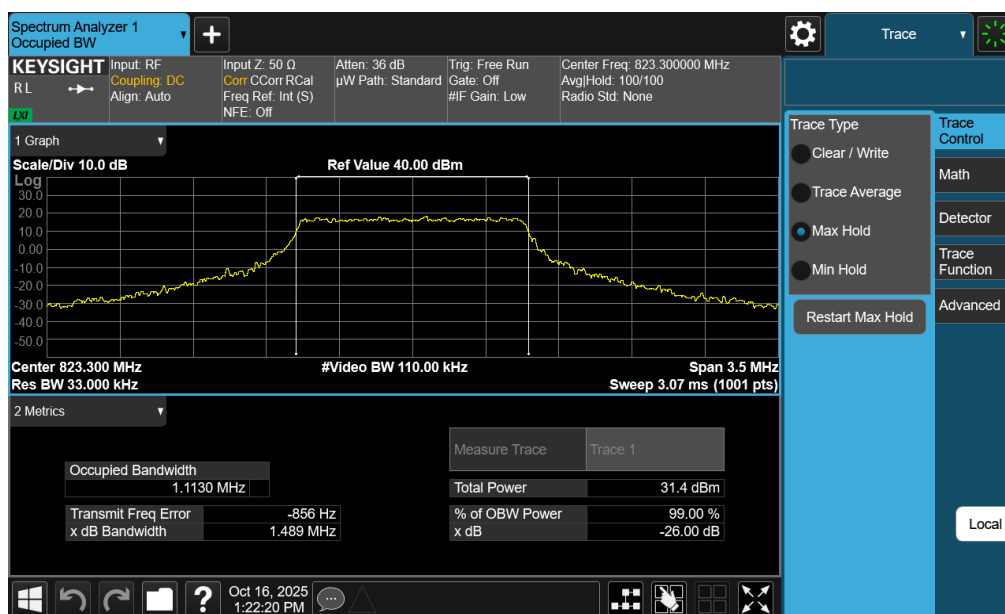


Plot 7-16. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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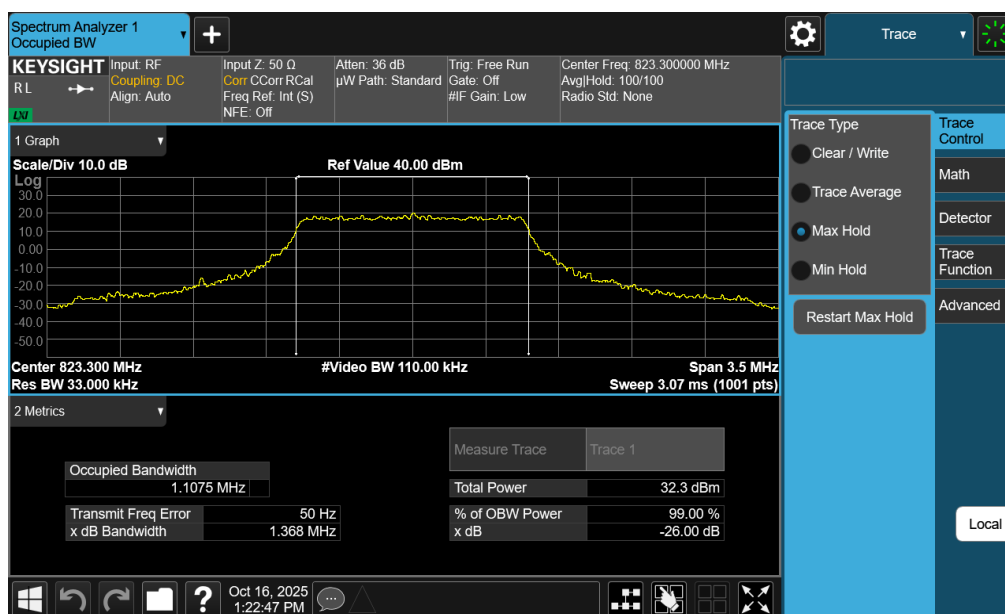
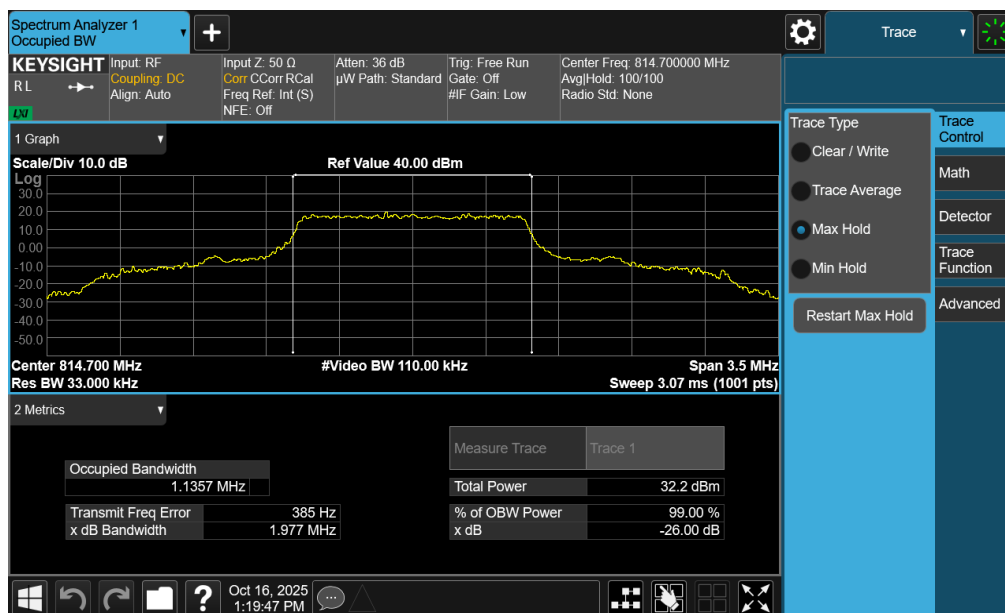


Plot 7-17. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)

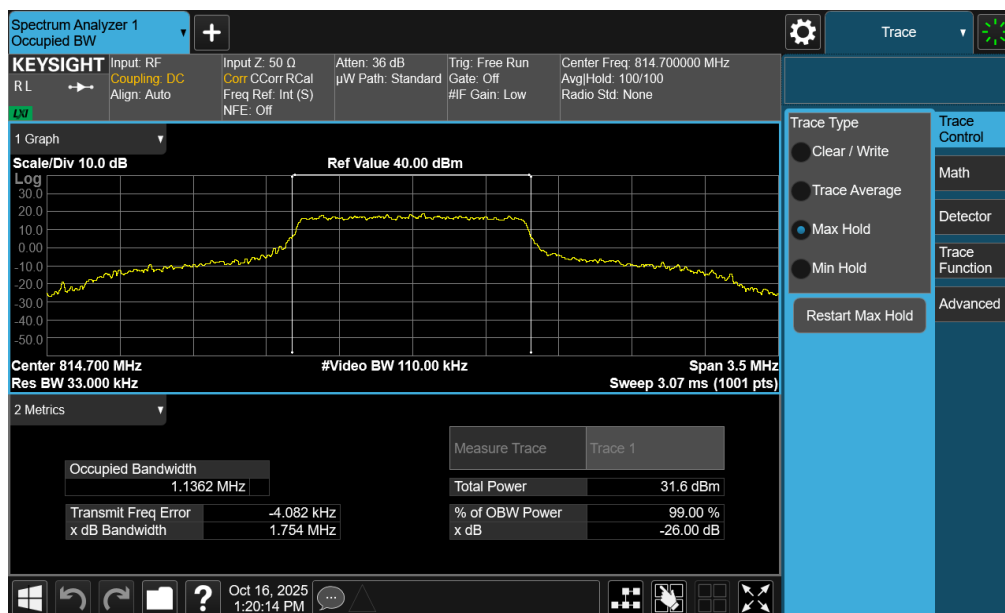


Plot 7-18. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

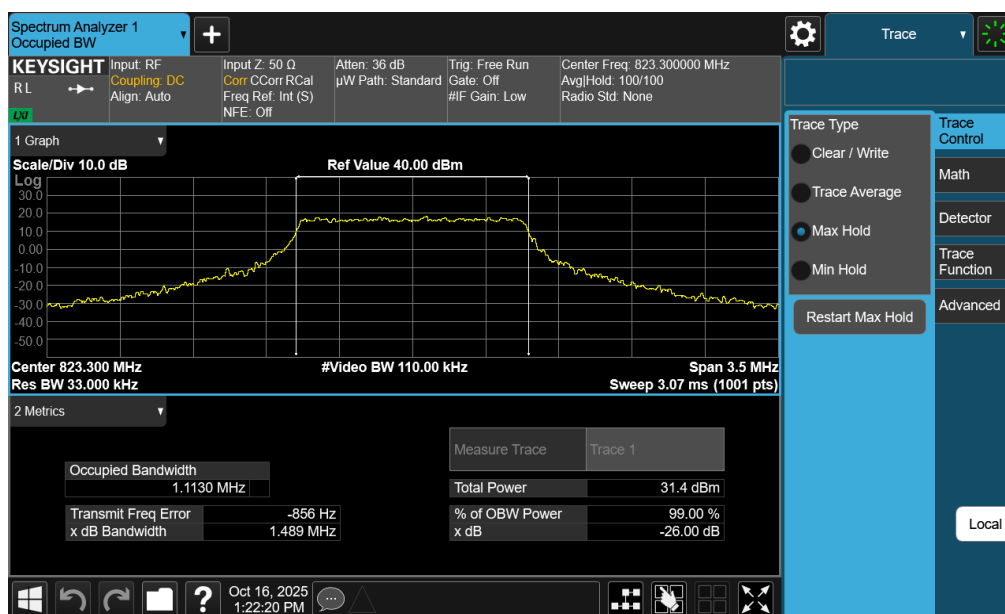
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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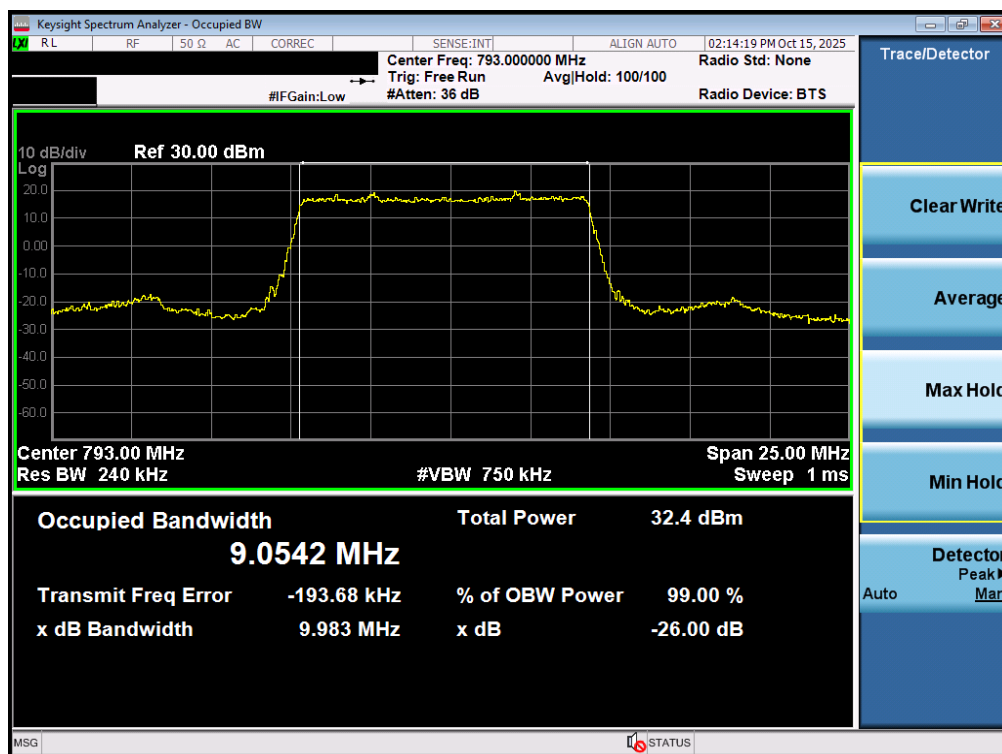
Plot 7-21. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)



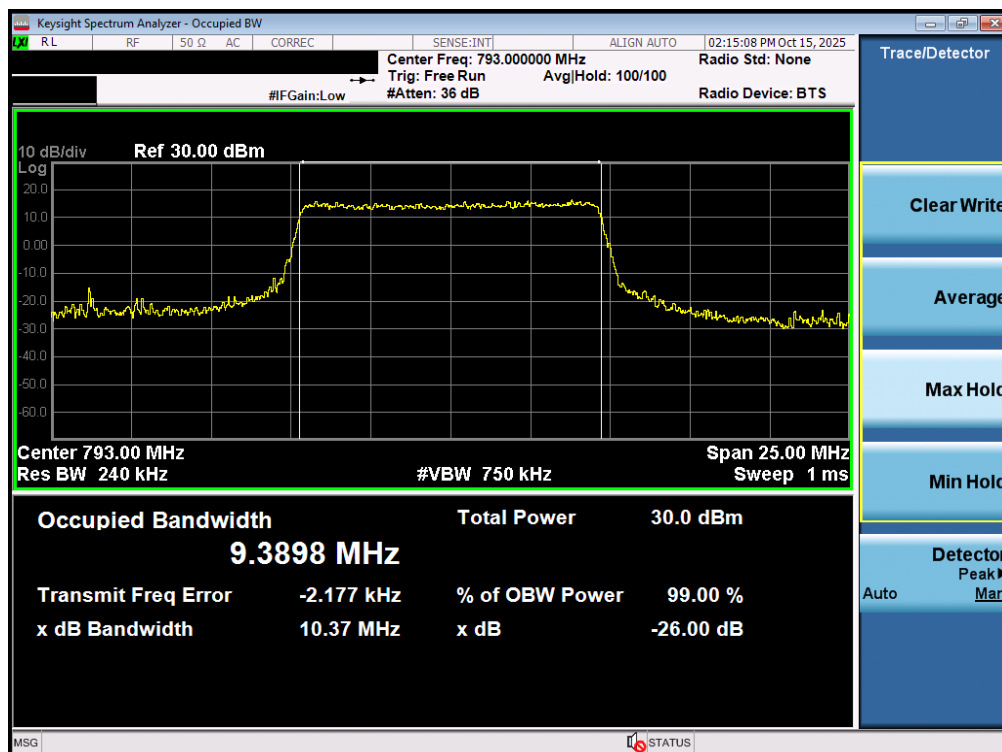
Plot 7-22. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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NR Band n14 – Ant 1

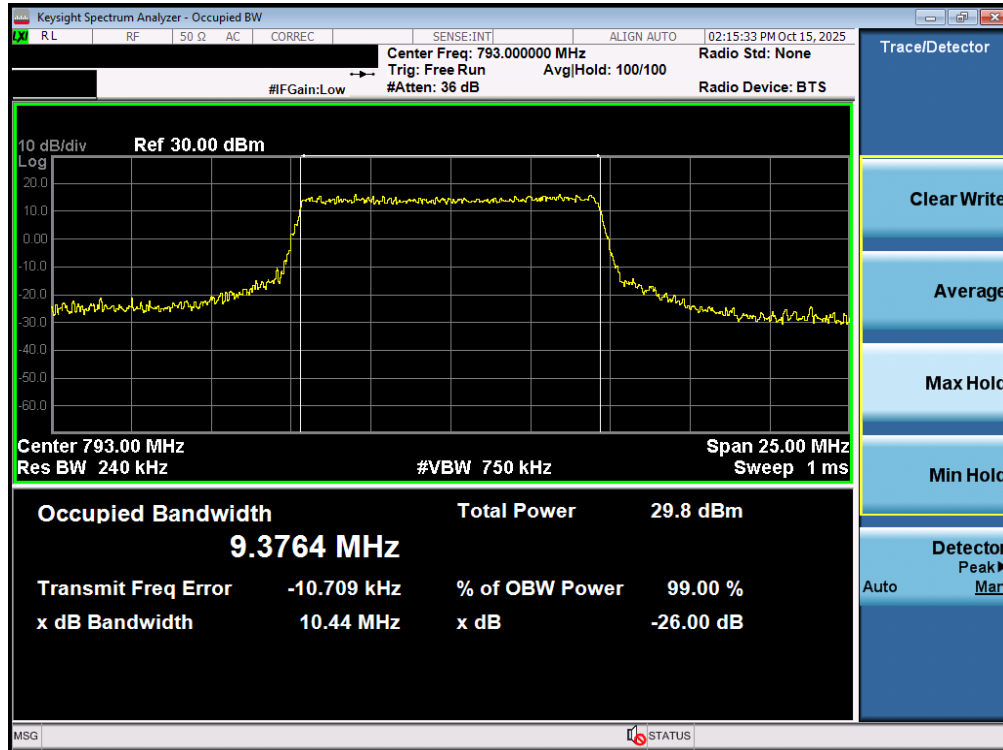


Plot 7-23. Occupied Bandwidth Plot (NR Band n14 - 10MHz $\pi/2$ BPSK - Full RB)

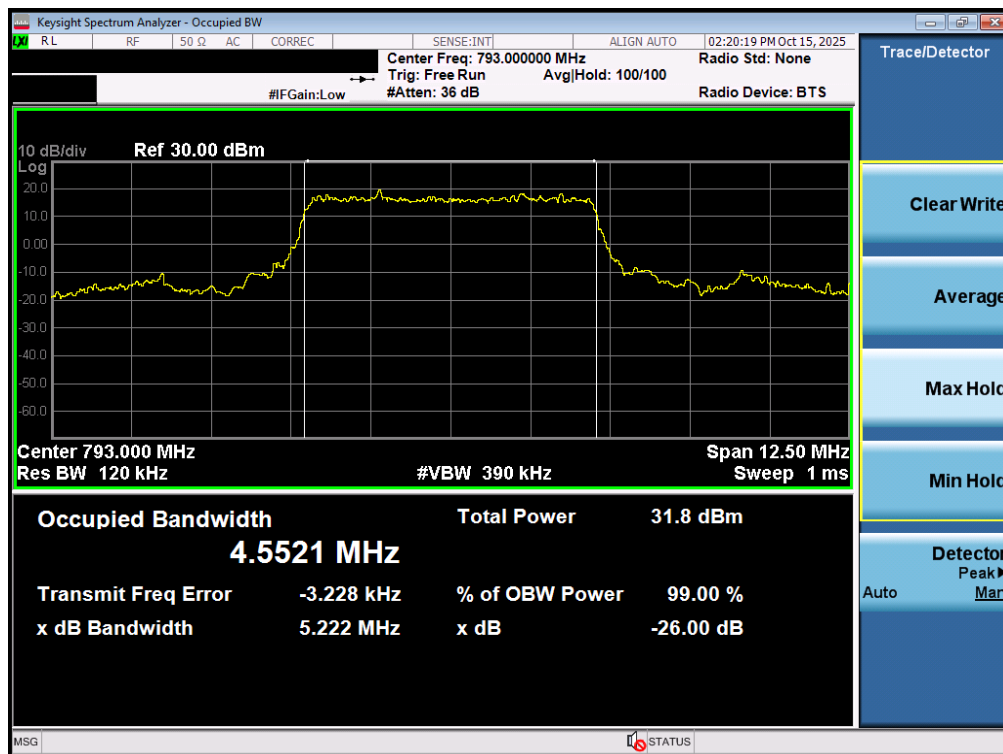


Plot 7-24. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 30 of 127

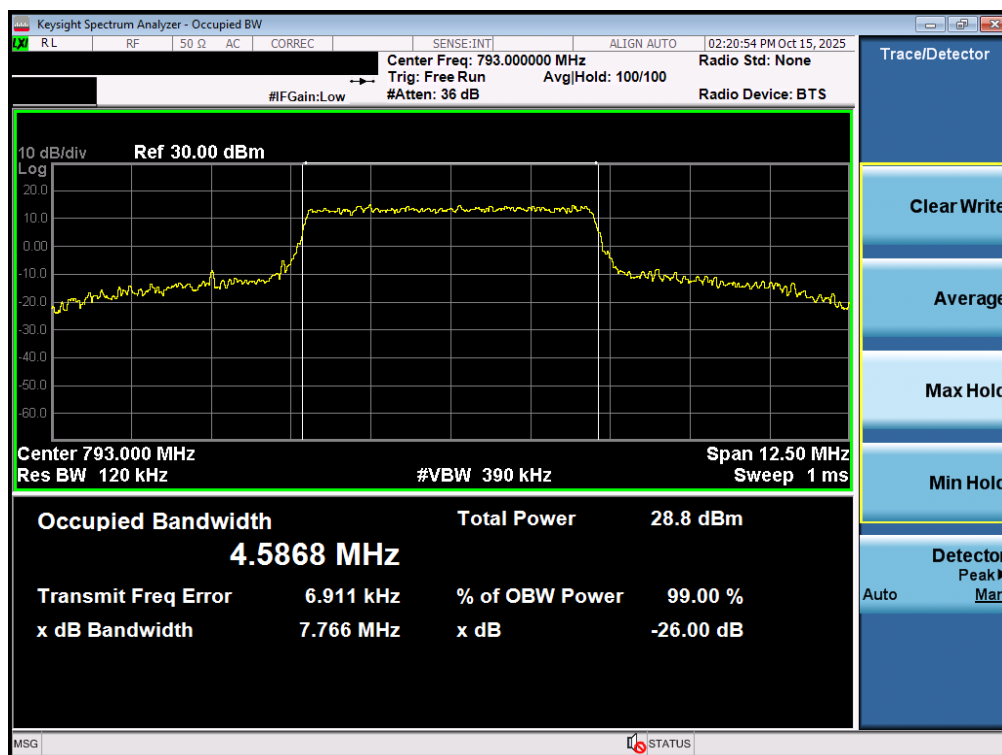


Plot 7-25. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB)

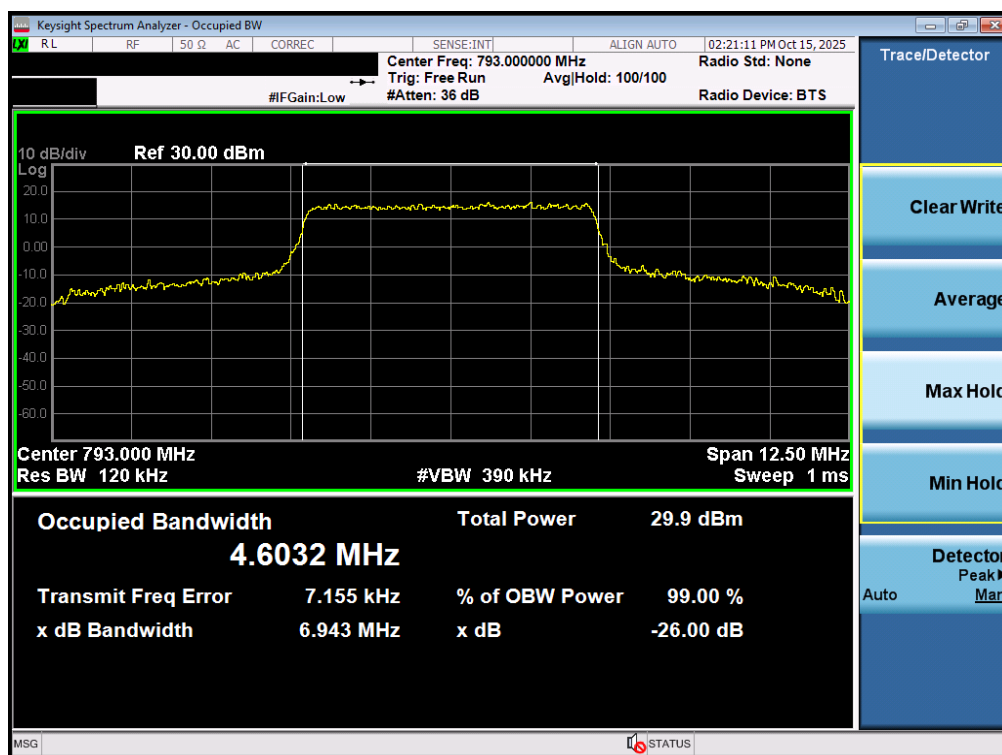


Plot 7-26. Occupied Bandwidth Plot (NR Band n14 - 5MHz $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 31 of 127



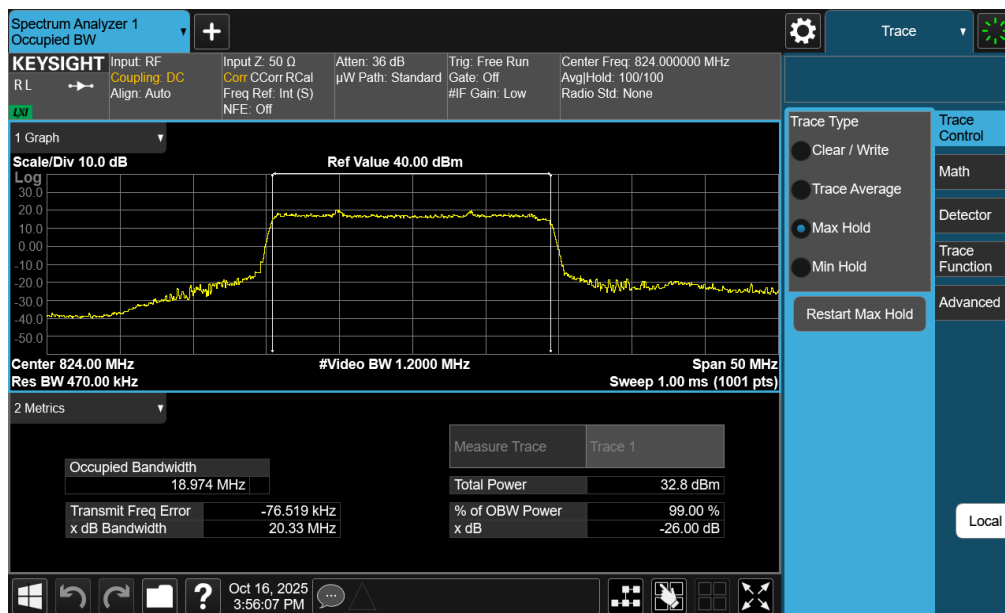
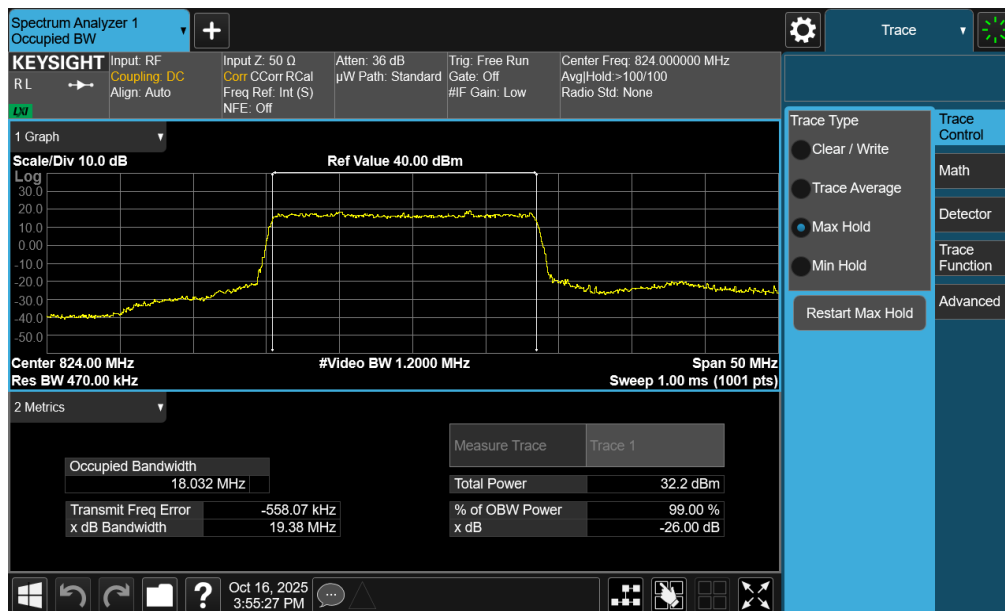
Plot 7-27. Occupied Bandwidth Plot (LTE Band 14 - 5MHz QPSK - Full RB)



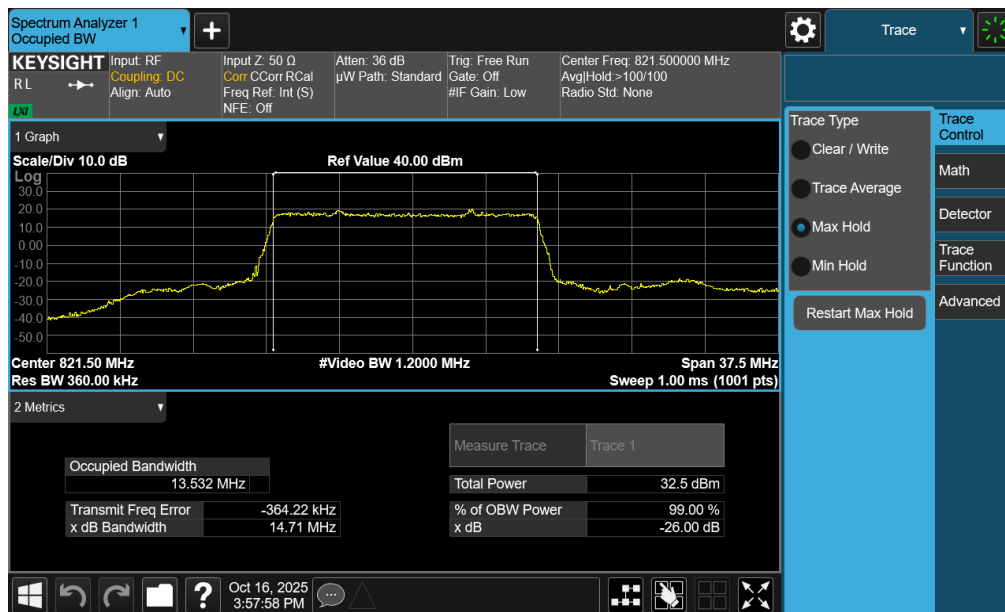
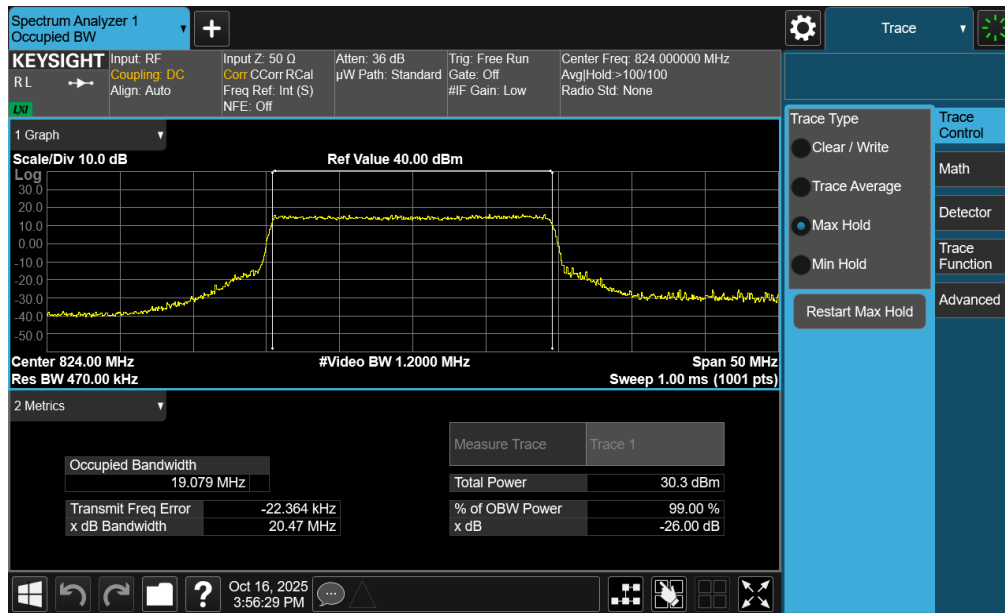
Plot 7-28. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 32 of 127

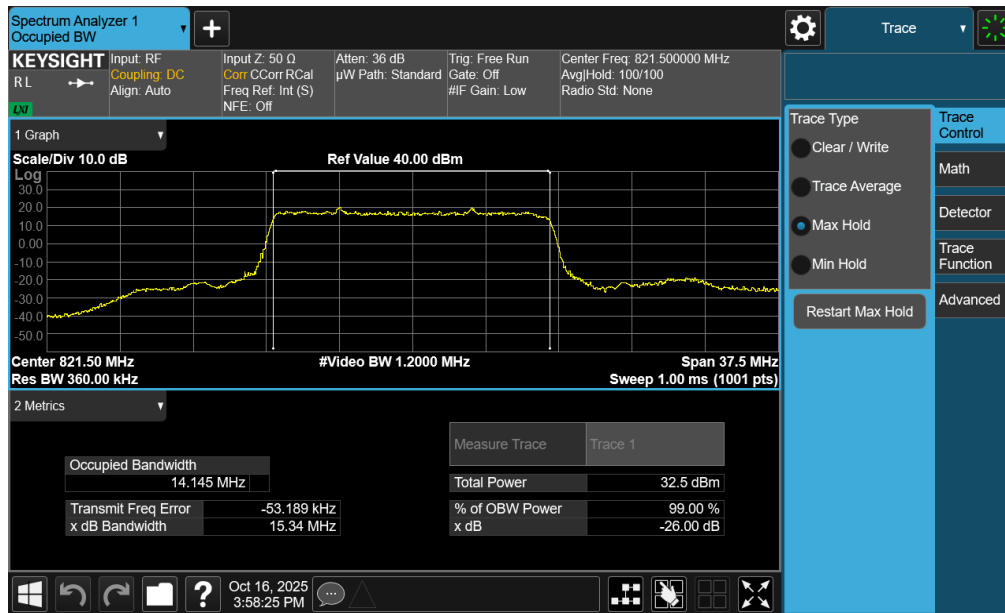
NR Band n26 - Ant 1



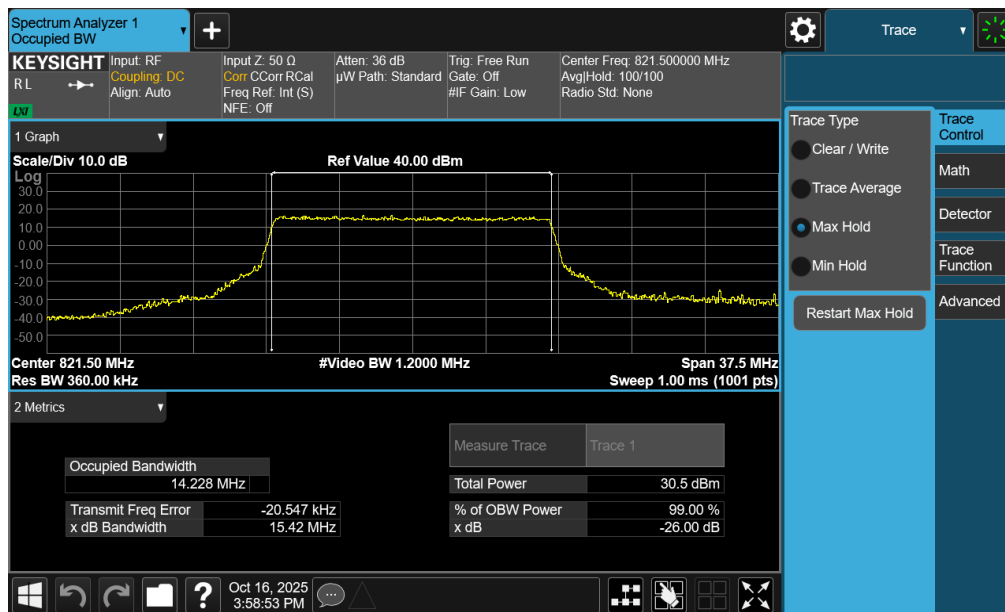
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 33 of 127



FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 34 of 127

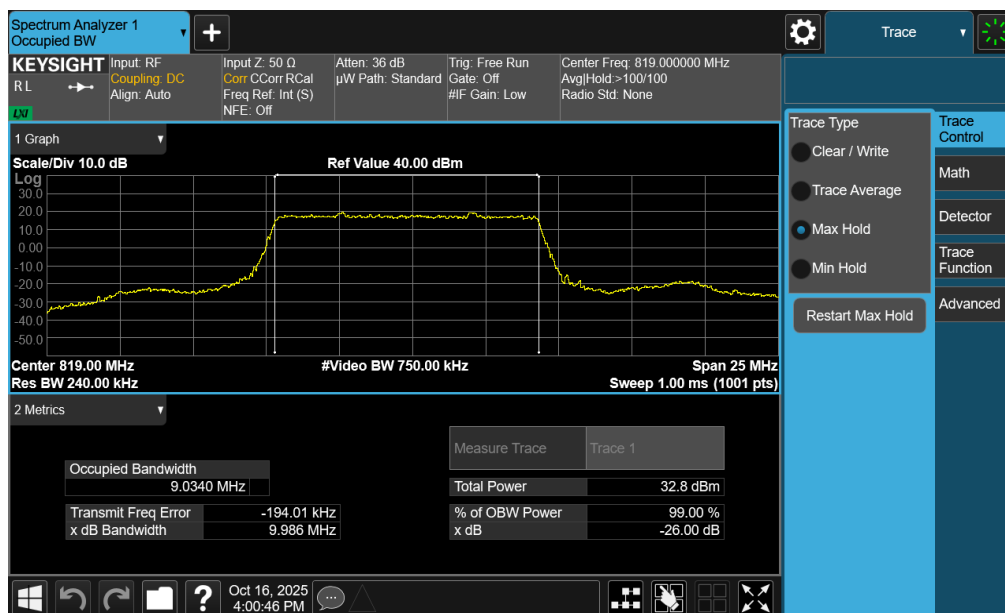


Plot 7-33. Occupied Bandwidth Plot (NR Band n26 - 15MHz QPSK - Full RB)

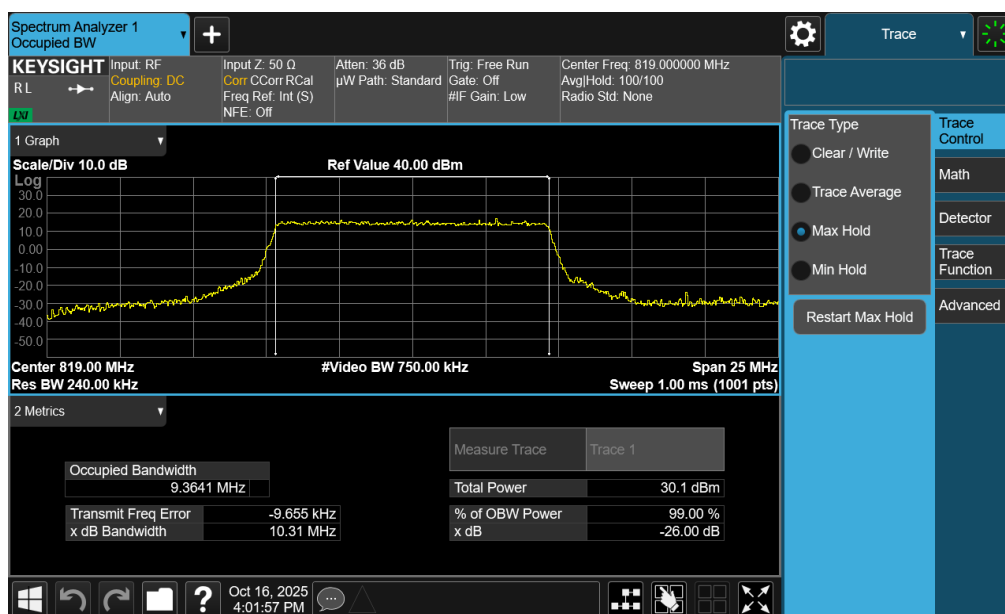


Plot 7-34. Occupied Bandwidth Plot (NR Band n26 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 35 of 127

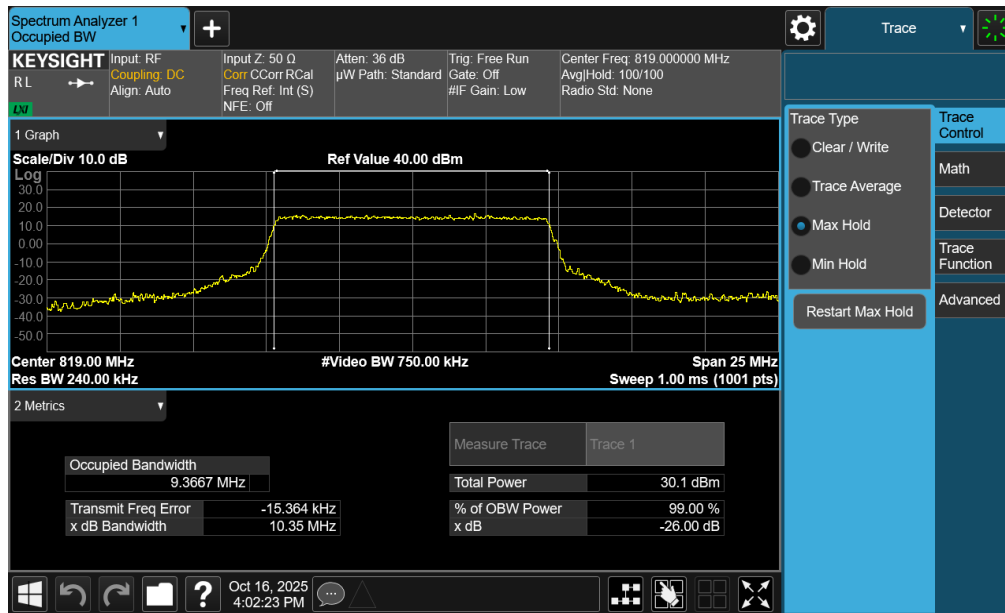


Plot 7-35. Occupied Bandwidth Plot (NR Band n26 - 10MHz $\pi/2$ BPSK - Full RB)

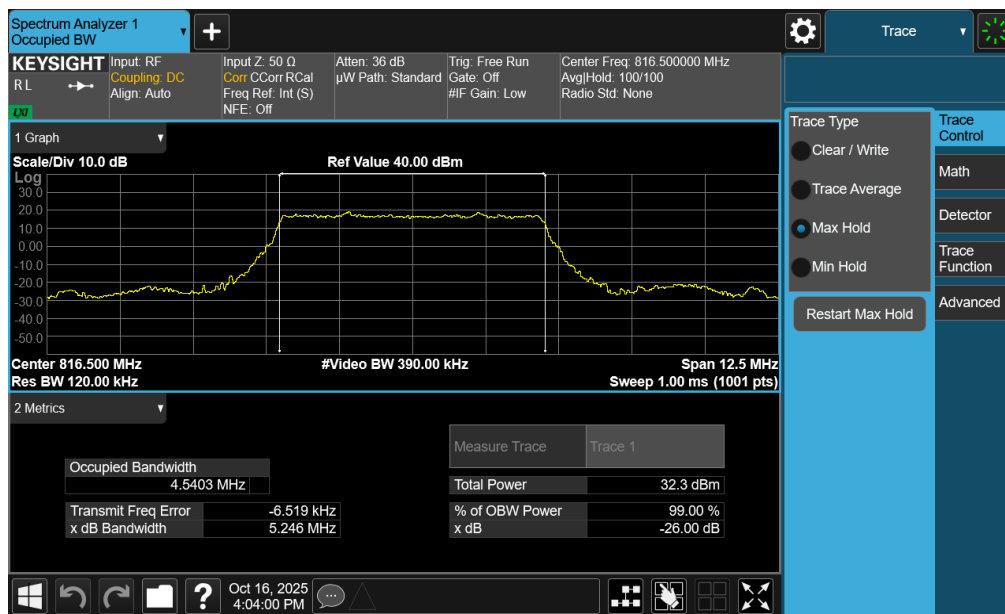


Plot 7-36. Occupied Bandwidth Plot (NR Band n26 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 36 of 127

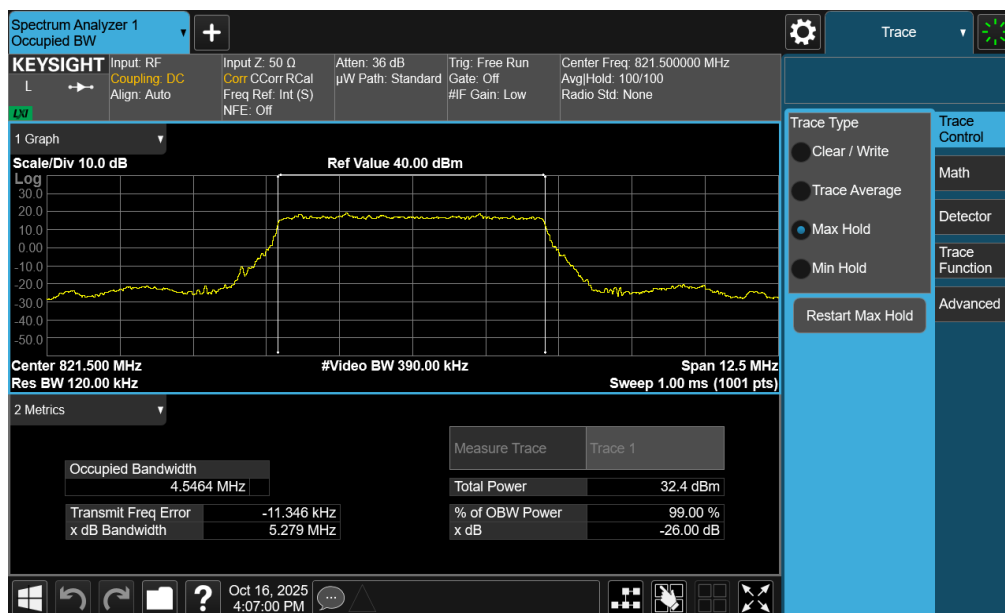


Plot 7-37. Occupied Bandwidth Plot (NR Band n26 - 10MHz 16-QAM - Full RB)

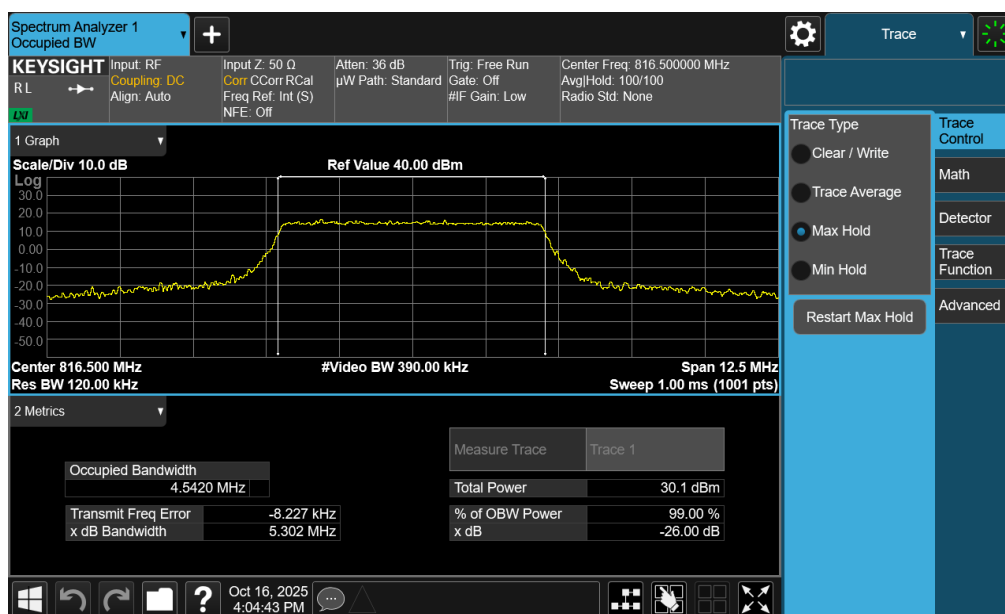


Plot 7-38. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK Low Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 37 of 127

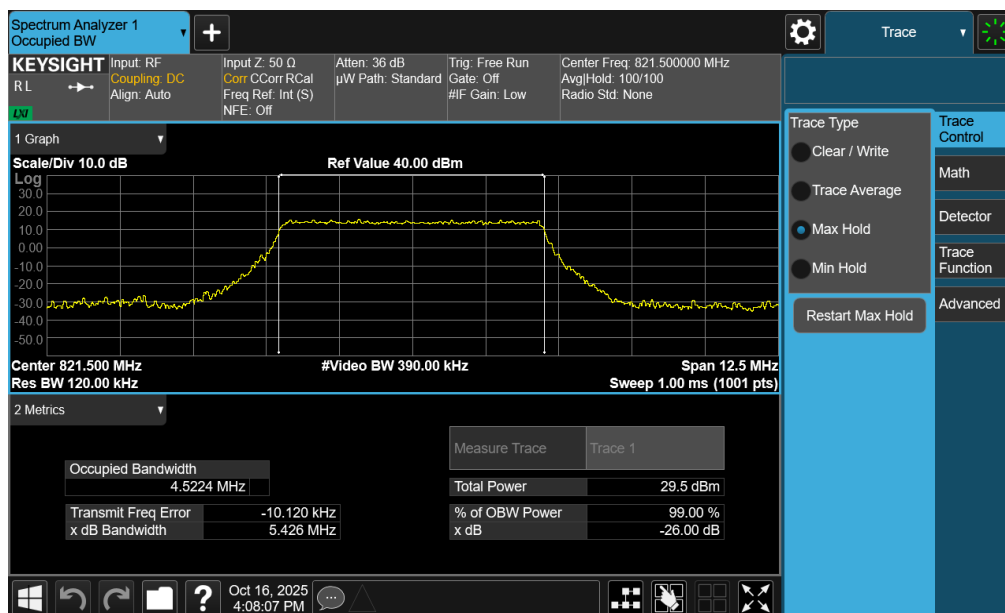


Plot 7-39. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK High Channel - Full RB)

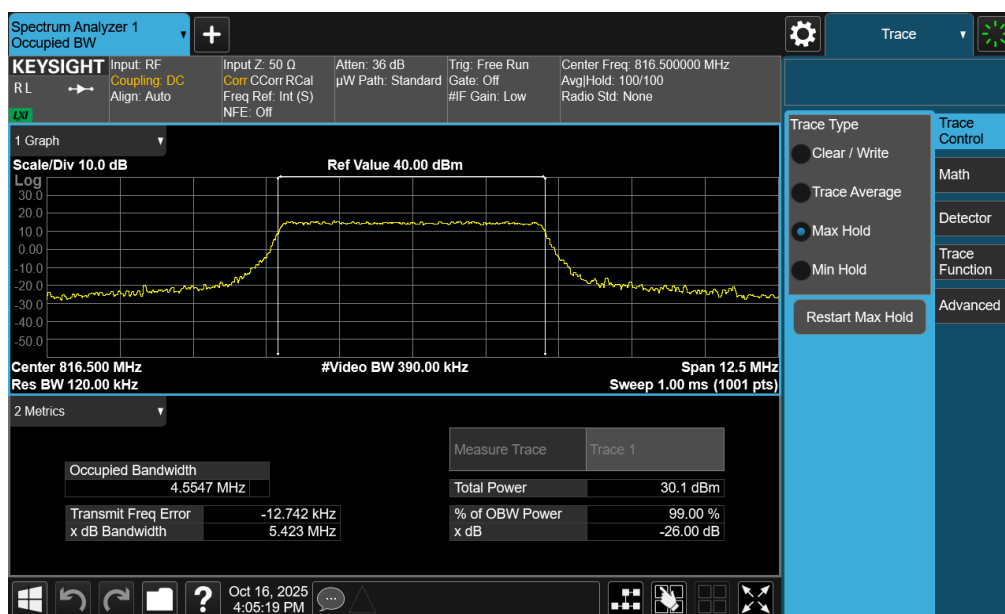


Plot 7-40. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK Low Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 38 of 127

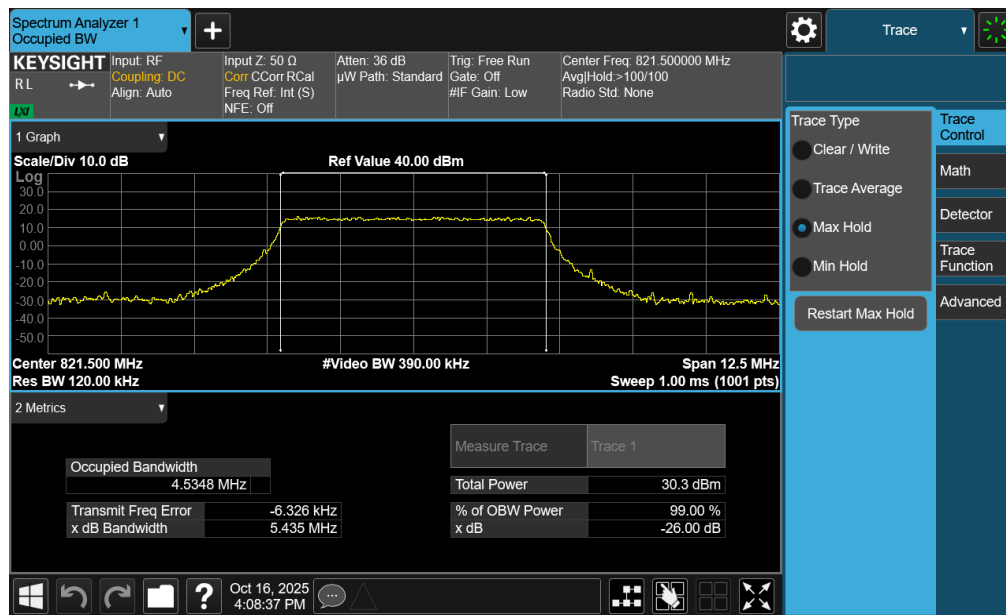


Plot 7-41. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK High Channel - Full RB)



Plot 7-42. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM Low Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 39 of 127



Plot 7-43. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM High Channel - Full RB)

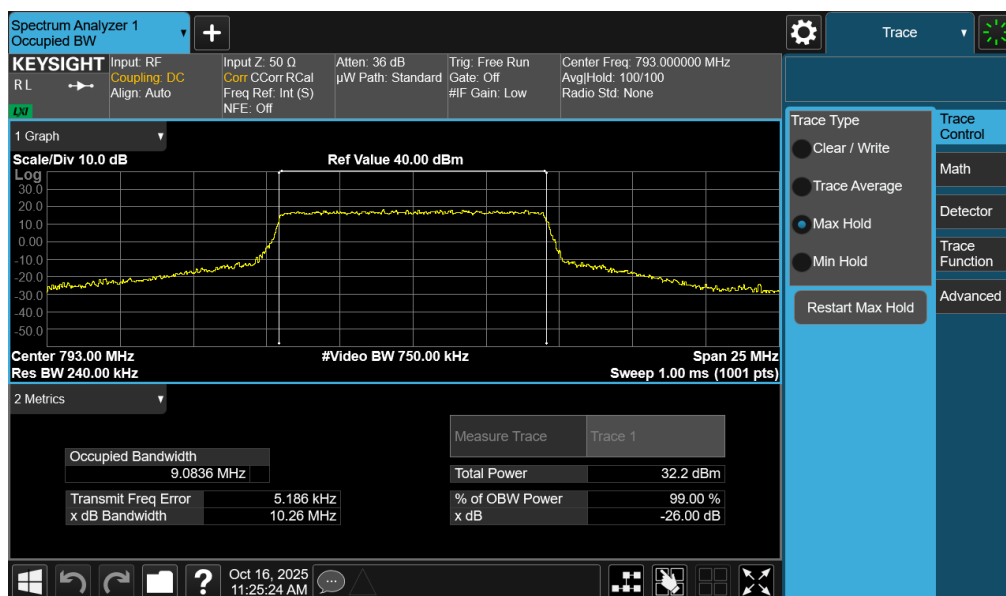
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 40 of 127

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B14	10 MHz	QPSK	9.08
		16QAM	9.06
	5 MHz	QPSK	4.54
		16QAM	4.53
LTE-B26	15 MHz	QPSK	13.59
		16QAM	13.59
	10 MHz	QPSK	9.07
		16QAM	9.07
	5 MHz	QPSK	4.53
		QPSK	4.55
		16QAM	4.55
		16QAM	4.55
	3 MHz	QPSK	2.73
		QPSK	2.73
		16QAM	2.74
		16QAM	2.73
	1.4 MHz	QPSK	1.11
		QPSK	1.11
		16QAM	1.11
		16QAM	1.11
NR-n14	10 MHz	$\pi/2$ BPSK	9.33
		QPSK	9.34
		16QAM	9.37
	5 MHz	$\pi/2$ BPSK	4.54
		QPSK	4.54
		16QAM	4.53
NR-n26	20 MHz	$\pi/2$ BPSK	18.04
		QPSK	19.23
		16QAM	19.22
	15 MHz	$\pi/2$ BPSK	13.57
		QPSK	14.37
		16QAM	14.40
	10 MHz	$\pi/2$ BPSK	9.06
		QPSK	9.50
		16QAM	9.49
	5 MHz	$\pi/2$ BPSK	4.55
		$\pi/2$ BPSK	4.53
		QPSK	4.62
		QPSK	4.62
		16QAM	4.59
		16QAM	4.60
		16QAM	4.60

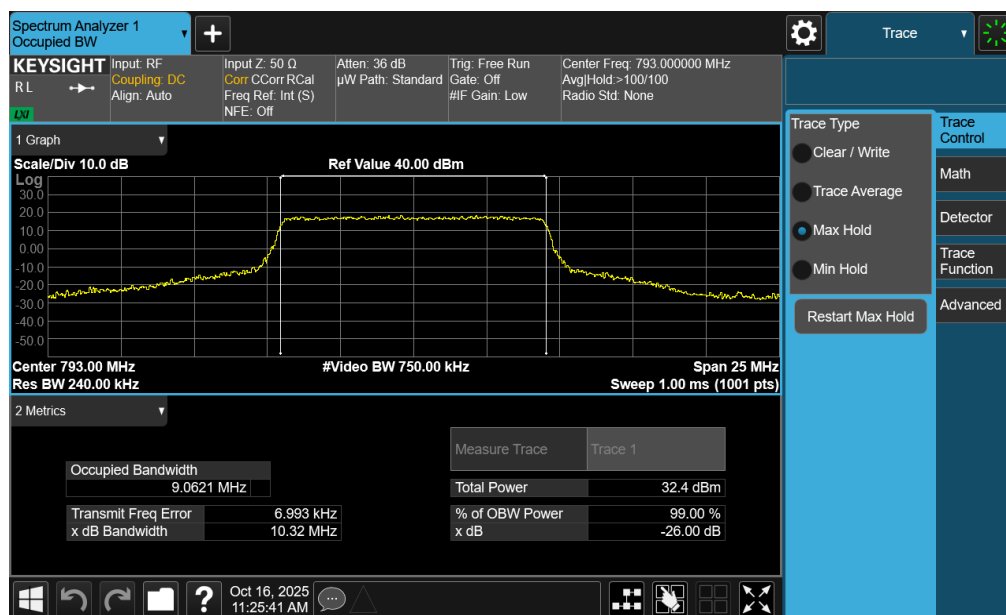
Table 7-7. Occupied Bandwidth Results – Ant 2

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 41 of 127

LTE Band 14 – Ant 2

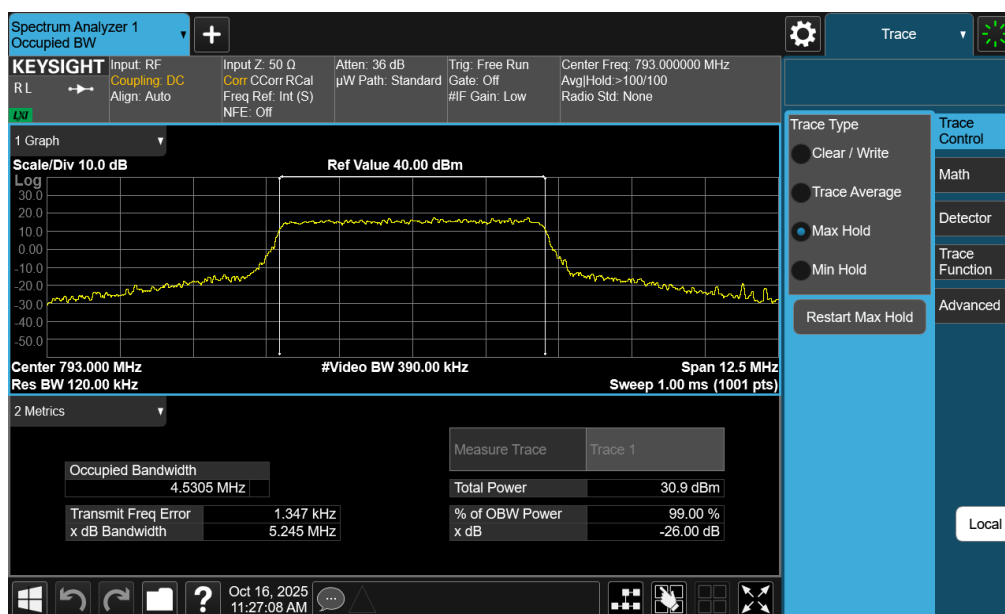
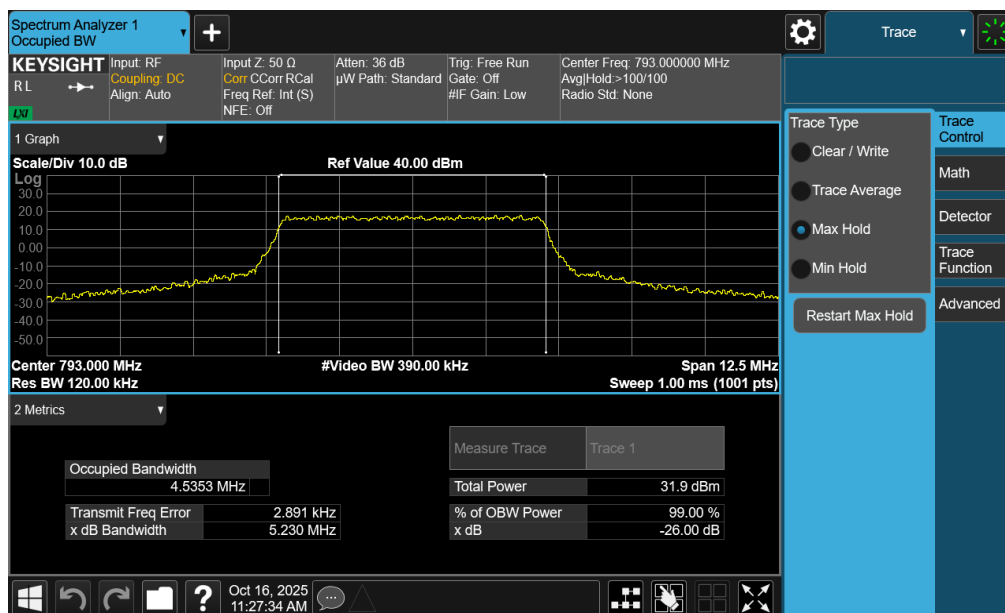


Plot 7-44. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB)



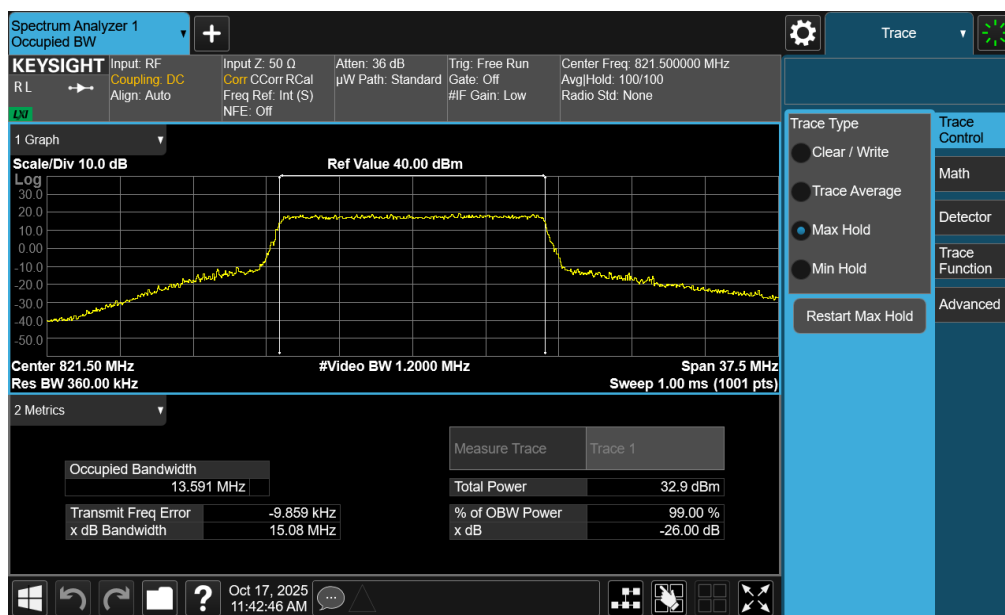
Plot 7-45. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 42 of 127



FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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LTE Band 26 – Ant 2

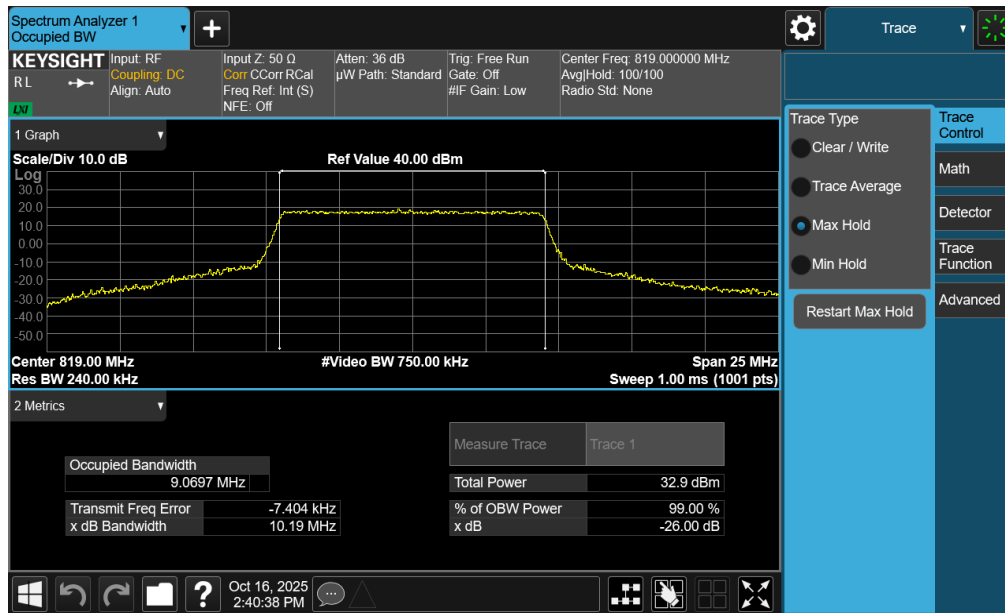


Plot 7-48. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB)

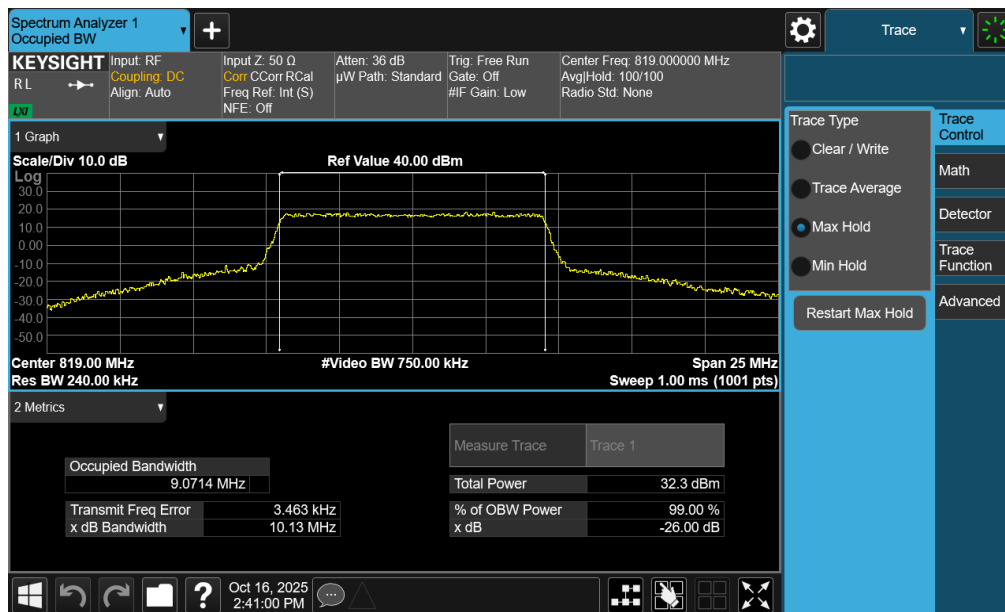


Plot 7-49. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 44 of 127

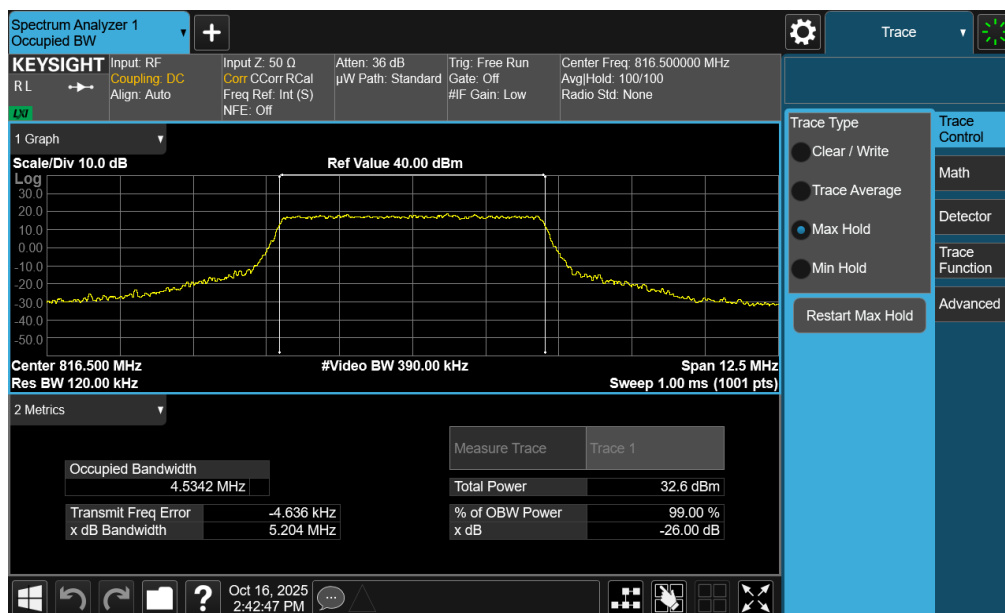


Plot 7-50. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB)

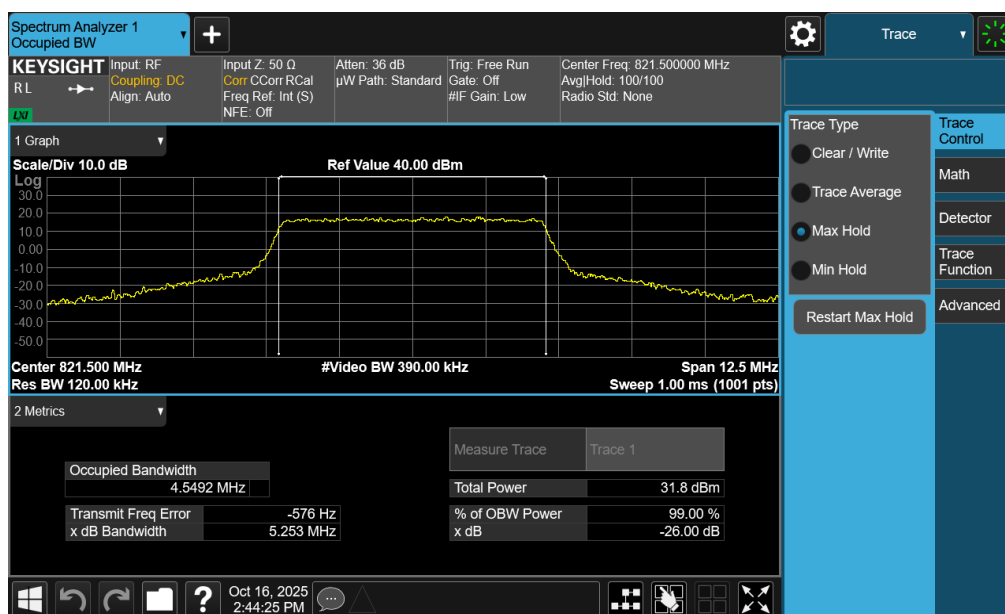


Plot 7-51. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 45 of 127

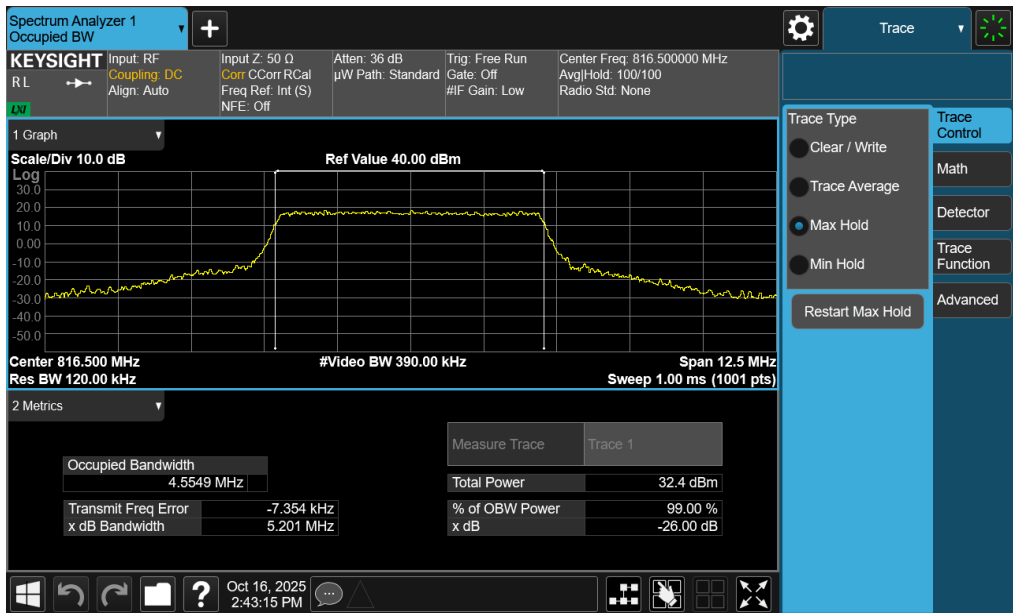


Plot 7-52. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK Low Channel- Full RB)

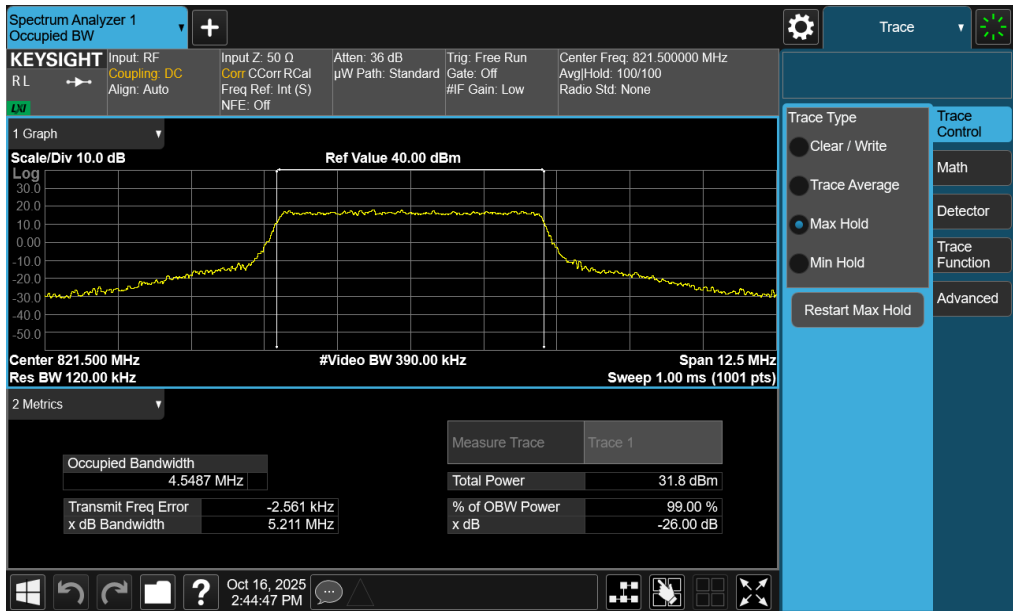


Plot 7-53. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 46 of 127

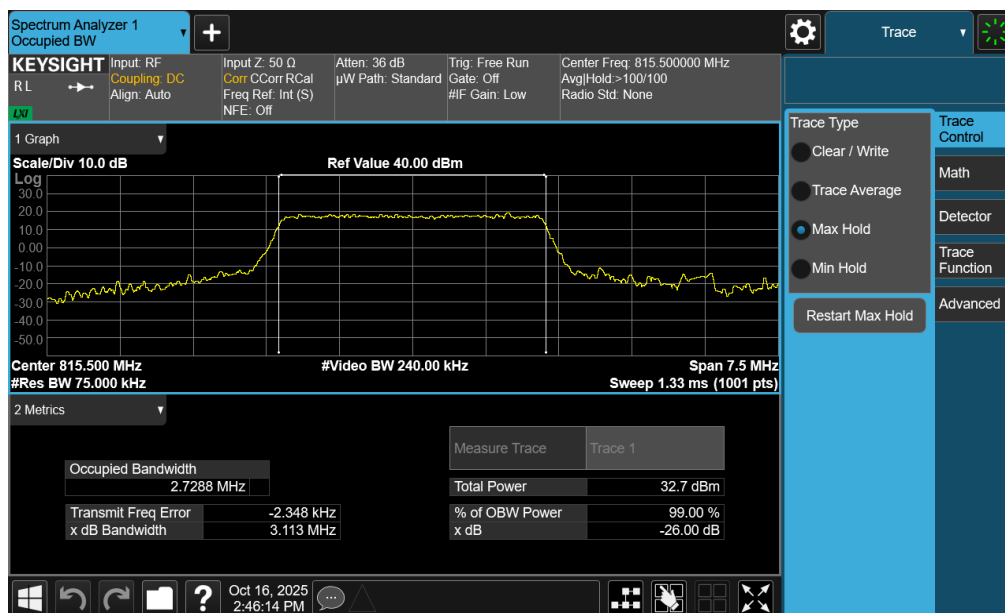


Plot 7-54. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM Low Channel - Full RB)

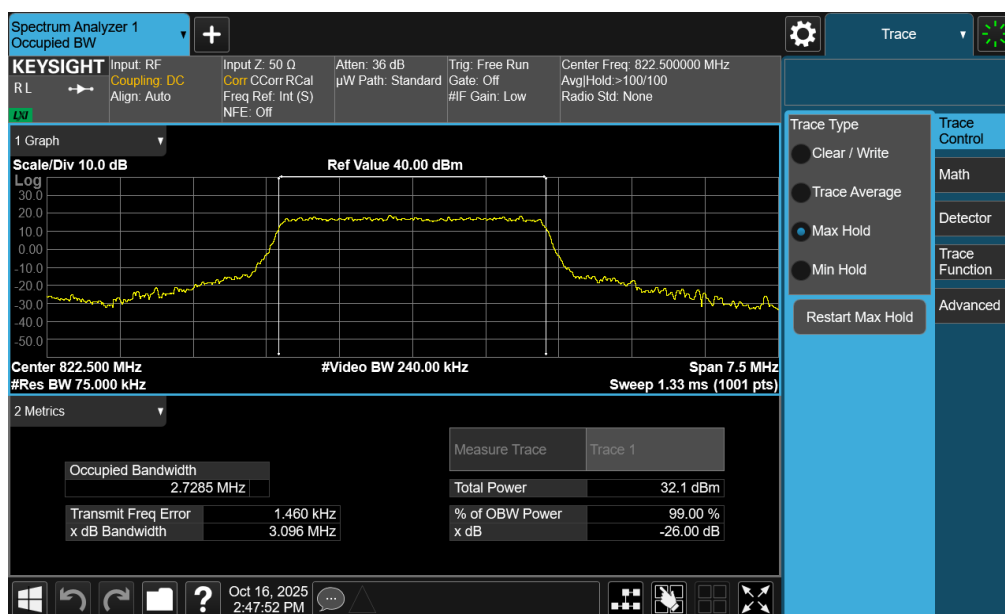


Plot 7-55. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 47 of 127

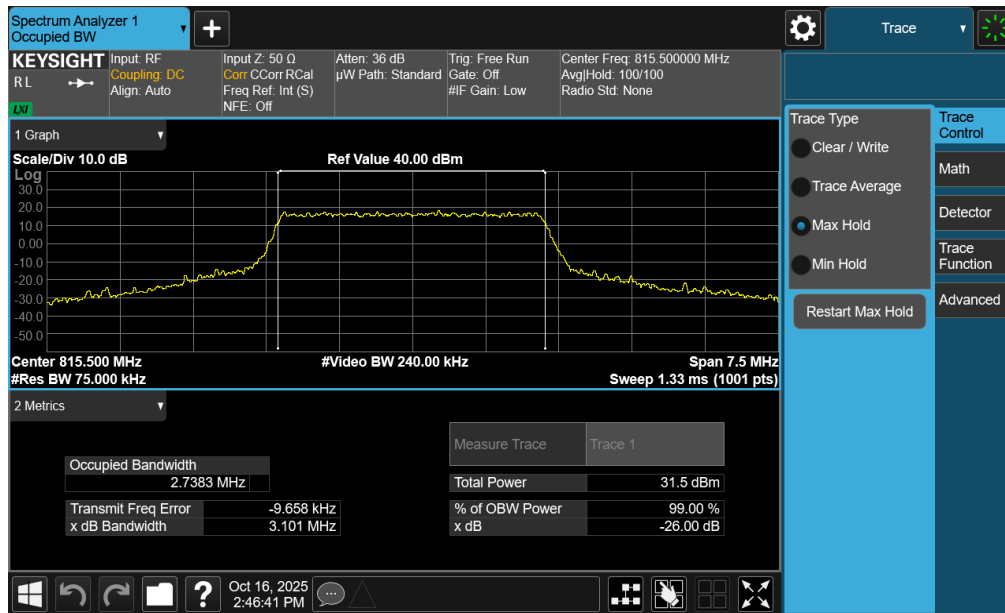


Plot 7-56. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK Low Channel- Full RB)

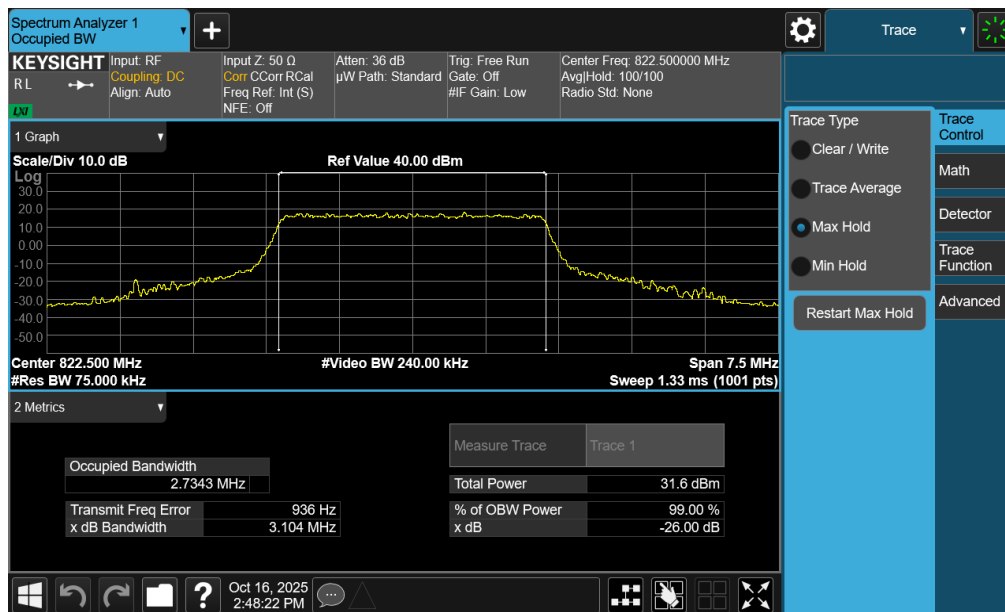


Plot 7-57. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 48 of 127

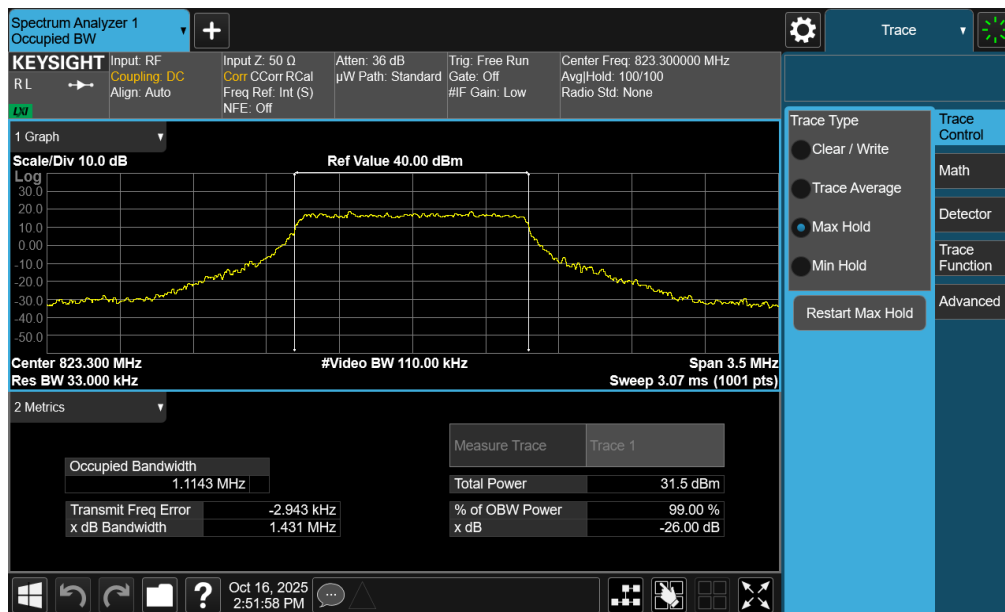
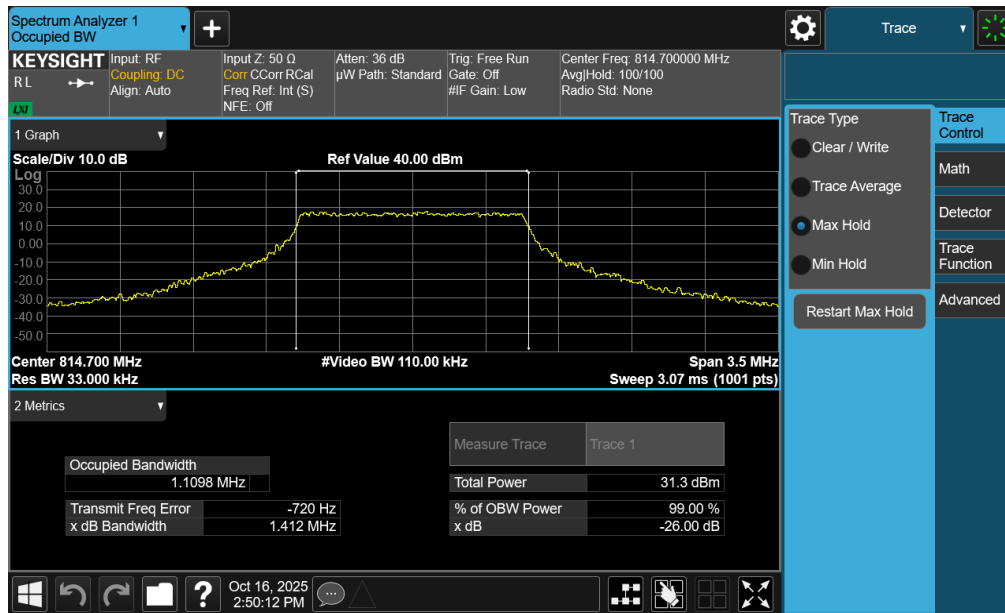


Plot 7-58. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM Low Channel - Full RB)

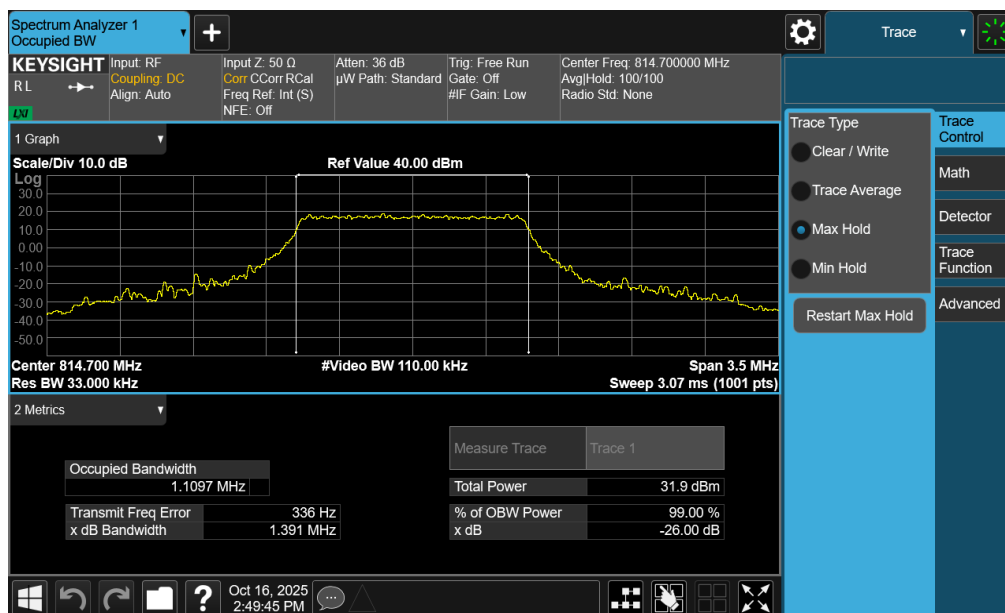


Plot 7-59. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM High Channel - Full RB)

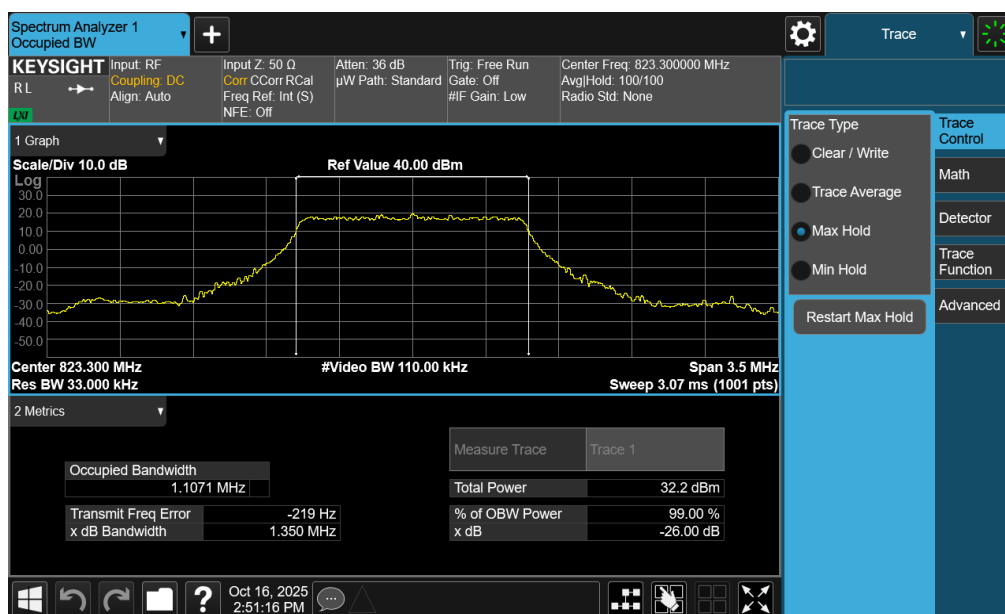
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 49 of 127



FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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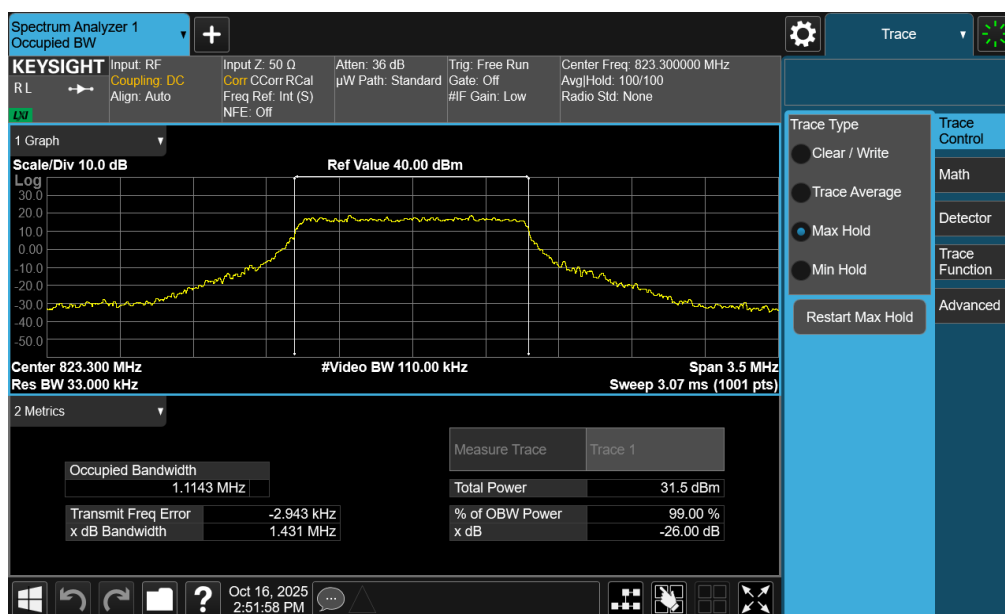
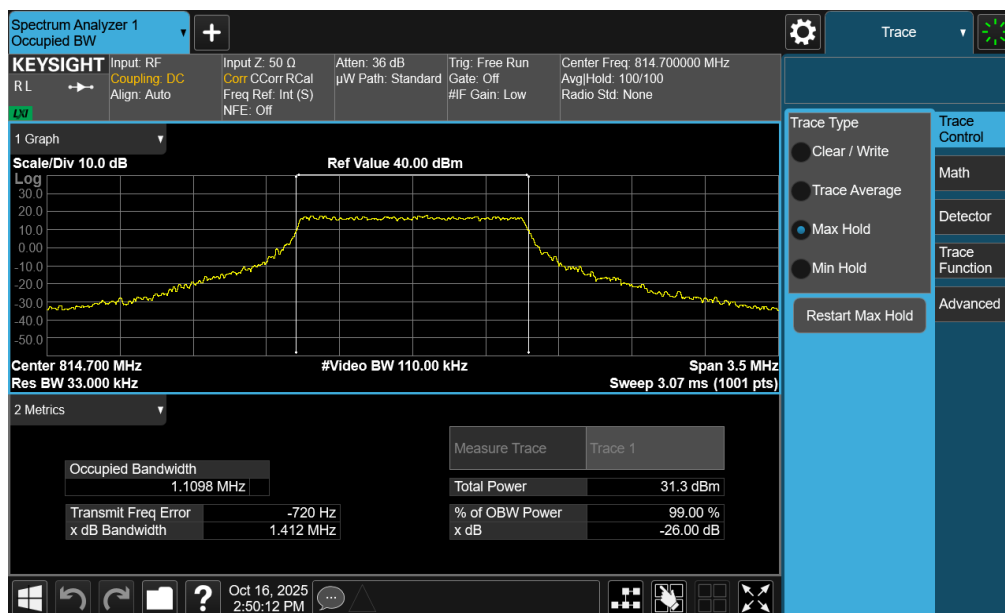


Plot 7-62. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK Low Channel- Full RB)



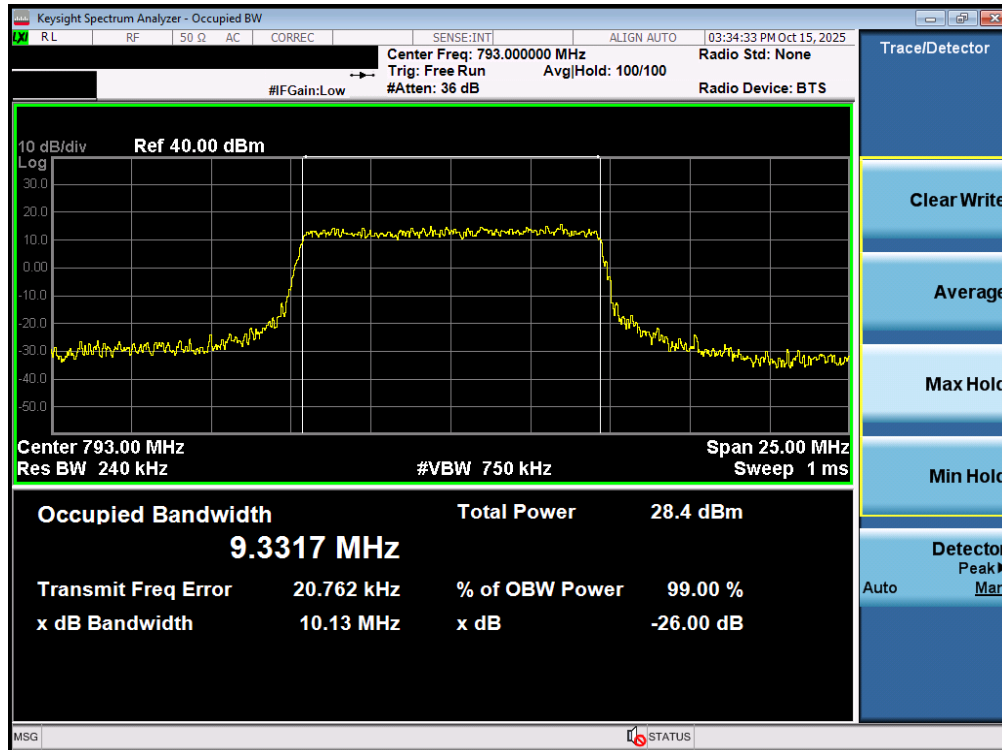
Plot 7-63. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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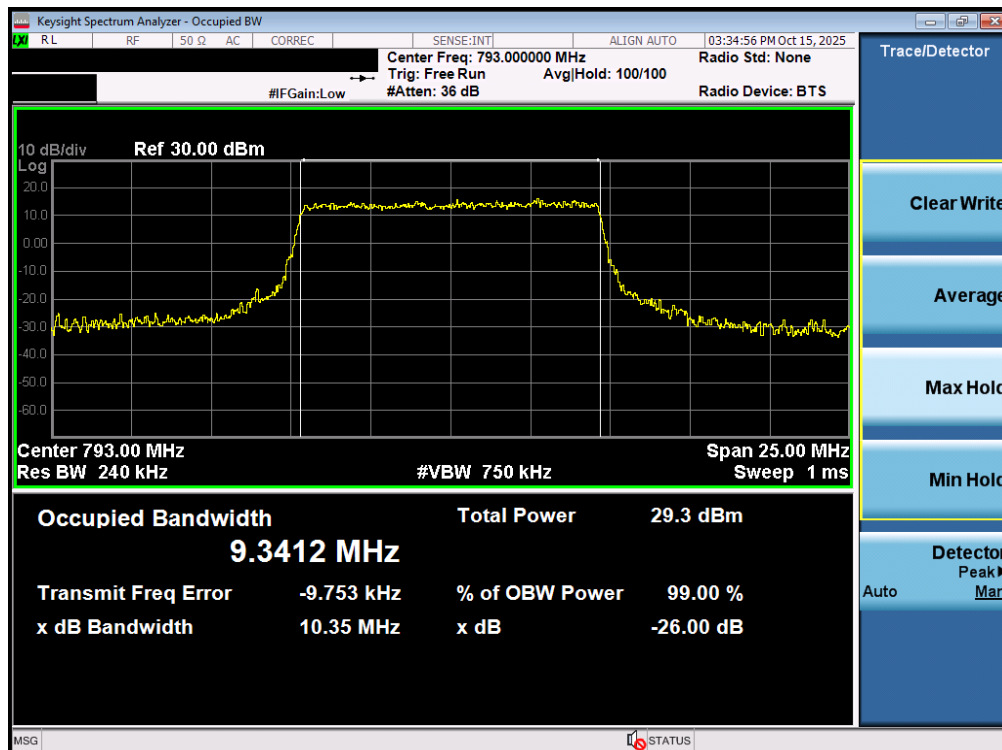


FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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NR Band n14 – Ant 2

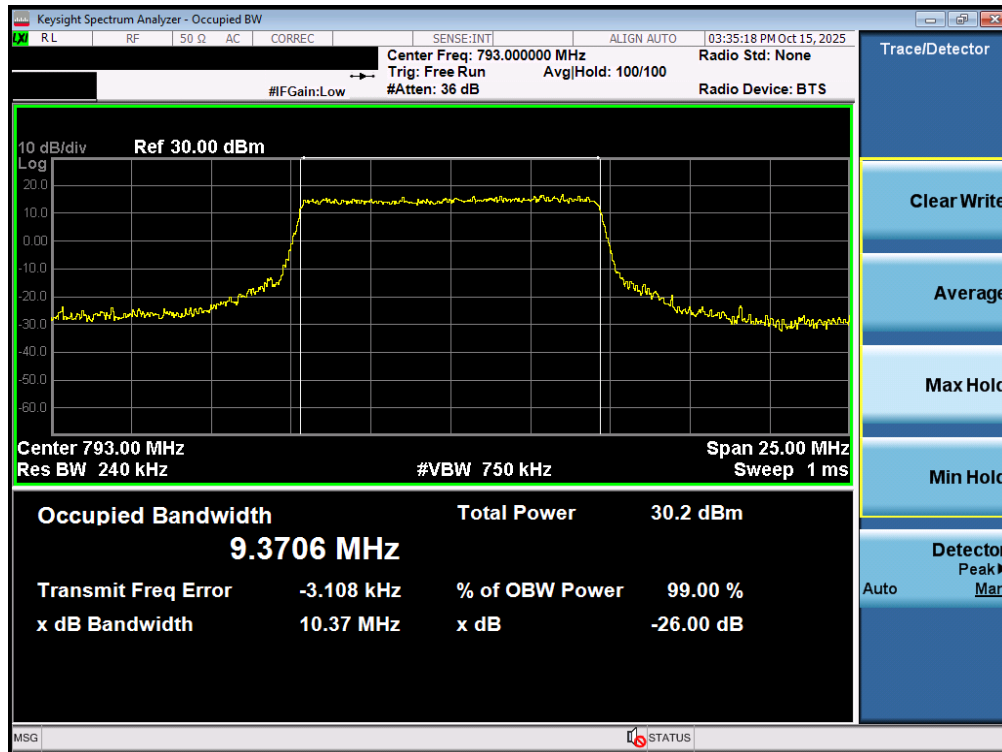


Plot 7-66. Occupied Bandwidth Plot (NR Band n14 - 10MHz $\pi/2$ BPSK - Full RB)

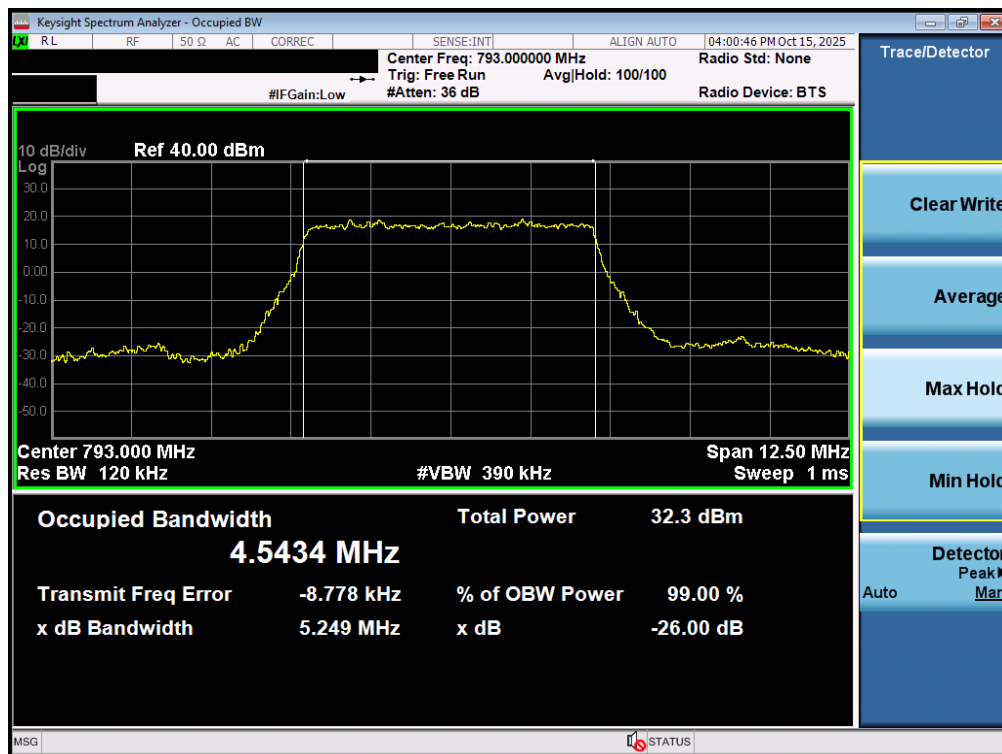


Plot 7-67. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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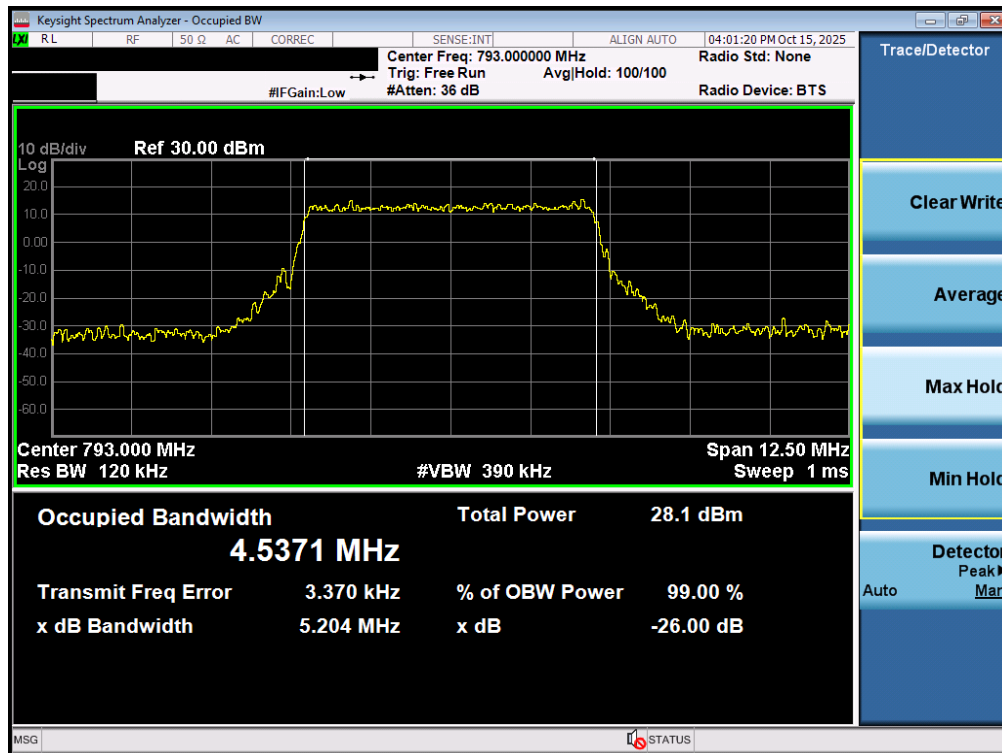


Plot 7-68. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB)

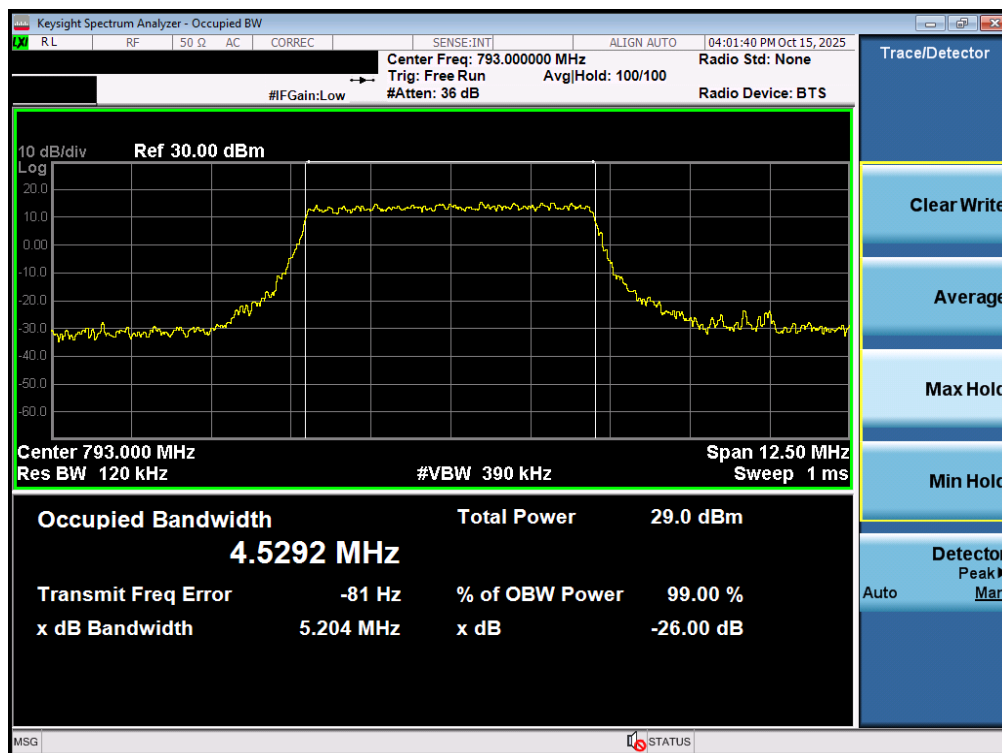


Plot 7-69. Occupied Bandwidth Plot (NR Band n14 - 5MHz $\pi/2$ BPSK - Full RB)

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Plot 7-70. Occupied Bandwidth Plot (LTE Band 14 - 5MHz QPSK - Full RB)



Plot 7-71. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB)

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