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PART 27 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

09/02/2025 - 10/10/2025

Test Report Issue Date:

10/27/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2508250078-10.A3L

FCC ID:

A3LSMS948U

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-S948U

Additional Model(s):

SM-S948U1

EUT Type:

Portable Handset

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

27

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



CERT #2041.01

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 1 of 180

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V11.3 5/14/2025

TEST REPORT REVISION HISTORY

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

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Antenna-1 Main						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3450 - 3550MHz)	100 MHz	$\pi/2$ BPSK	3500.0	0.392	25.93	97M2G7D
		QPSK	3500.0	0.399	26.01	98M1G7D
		16QAM	3500.0	0.342	25.34	98M0W7D
	90 MHz	$\pi/2$ BPSK	3495.0 - 3505.0	0.400	26.02	87M3G7D
		QPSK	3495.0 - 3505.0	0.400	26.02	87M8G7D
		16QAM	3495.0 - 3505.0	0.349	25.42	88M0W7D
	80 MHz	$\pi/2$ BPSK	3490.0 - 3510.0	0.391	25.92	77M5G7D
		QPSK	3490.0 - 3510.0	0.397	25.98	77M9G7D
		16QAM	3490.0 - 3510.0	0.343	25.35	78M1W7D
	70 MHz	$\pi/2$ BPSK	3485.0 - 3515.0	0.390	25.91	64M7G7D
		QPSK	3485.0 - 3515.0	0.399	26.01	67M9G7D
		16QAM	3485.0 - 3515.0	0.344	25.36	67M8W7D
	60 MHz	$\pi/2$ BPSK	3480.0 - 3520.0	0.403	26.05	58M2G7D
		QPSK	3480.0 - 3520.0	0.407	26.09	58M1G7D
		16QAM	3480.0 - 3520.0	0.345	25.37	58M2W7D
	50 MHz	$\pi/2$ BPSK	3475.0 - 3525.0	0.424	26.27	46M0G7D
		QPSK	3475.0 - 3525.0	0.420	26.23	47M7G7D
		16QAM	3475.0 - 3525.0	0.366	25.63	47M7W7D
	40 MHz	$\pi/2$ BPSK	3470.0 - 3530.0	0.413	26.15	35M9G7D
		QPSK	3470.0 - 3530.0	0.415	26.18	38M0G7D
		16QAM	3470.0 - 3530.0	0.362	25.58	38M0W7D
	30 MHz	$\pi/2$ BPSK	3465.0 - 3535.0	0.416	26.19	27M0G7D
		QPSK	3465.0 - 3535.0	0.424	26.27	28M0G7D
		16QAM	3465.0 - 3535.0	0.356	25.51	28M1W7D
	25MHz	$\pi/2$ BPSK	3462.5 - 3537.5	0.414	26.17	23M0G7D
		QPSK	3462.5 - 3537.5	0.419	26.22	23M3G7D
		16QAM	3462.5 - 3537.5	0.362	25.58	23M3W7D
	20 MHz	$\pi/2$ BPSK	3460.0 - 3540.0	0.382	25.82	18M0G7D
		QPSK	3460.0 - 3540.0	0.388	25.88	18M3G7D
		16QAM	3460.0 - 3540.0	0.333	25.22	18M4W7D
	15 MHz	$\pi/2$ BPSK	3457.5 - 3542.5	0.384	25.84	13M0G7D
		QPSK	3457.5 - 3542.5	0.396	25.97	13M7G7D
		16QAM	3457.5 - 3542.5	0.340	25.31	13M7W7D
	10 MHz	$\pi/2$ BPSK	3455.0 - 3545.0	0.389	25.89	8M66G7D
		QPSK	3455.0 - 3545.0	0.392	25.93	8M72G7D
		16QAM	3455.0 - 3545.0	0.327	25.14	8M72W7D

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Antenna-1 Main						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3700 - 3980MHz)	100 MHz	$\pi/2$ BPSK	3750.0 - 3930.0	0.484	26.85	97M1G7D
		QPSK	3750.0 - 3930.0	0.490	26.90	98M0G7D
		16QAM	3750.0 - 3930.0	0.397	25.99	97M8W7D
	90 MHz	$\pi/2$ BPSK	3745.0 - 3935.0	0.472	26.74	87M2G7D
		QPSK	3745.0 - 3935.0	0.491	26.91	87M9G7D
		16QAM	3745.0 - 3935.0	0.400	26.02	87M8W7D
	80 MHz	$\pi/2$ BPSK	3740.0 - 3940.0	0.461	26.64	77M6G7D
		QPSK	3740.0 - 3940.0	0.490	26.90	77M8G7D
		16QAM	3740.0 - 3940.0	0.397	25.99	77M6W7D
	70 MHz	$\pi/2$ BPSK	3735.0 - 3945.0	0.463	26.66	64M5G7D
		QPSK	3735.0 - 3945.0	0.491	26.91	67M8G7D
		16QAM	3735.0 - 3945.0	0.397	25.99	67M7W7D
	60 MHz	$\pi/2$ BPSK	3730.0 - 3950.0	0.456	26.59	58M1G7D
		QPSK	3730.0 - 3950.0	0.472	26.74	58M1G7D
		16QAM	3730.0 - 3950.0	0.377	25.77	58M1W7D
	50 MHz	$\pi/2$ BPSK	3725.0 - 3955.0	0.481	26.82	45M9G7D
		QPSK	3725.0 - 3955.0	0.501	27.00	47M8G7D
		16QAM	3725.0 - 3955.0	0.405	26.08	47M8W7D
	40 MHz	$\pi/2$ BPSK	3720.0 - 3960.0	0.453	26.56	36M0G7D
		QPSK	3720.0 - 3960.0	0.475	26.77	38M1G7D
		16QAM	3720.0 - 3960.0	0.383	25.83	37M9W7D
	30 MHz	$\pi/2$ BPSK	3715.0 - 3965.0	0.464	26.67	27M0G7D
		QPSK	3715.0 - 3965.0	0.480	26.81	28M0G7D
		16QAM	3715.0 - 3965.0	0.384	25.84	28M0W7D
	25 MHz	$\pi/2$ BPSK	3712.5 - 3967.5	0.467	26.69	23M0G7D
		QPSK	3712.5 - 3967.5	0.489	26.89	23M3G7D
		16QAM	3712.5 - 3967.5	0.400	26.02	23M3W7D
	20 MHz	$\pi/2$ BPSK	3710.0 - 3970.0	0.458	26.61	18M0G7D
		QPSK	3710.0 - 3970.0	0.476	26.78	18M4G7D
		16QAM	3710.0 - 3970.0	0.388	25.89	18M4W7D
	15 MHz	$\pi/2$ BPSK	3707.5 - 3972.5	0.465	26.68	13M0G7D
		QPSK	3707.5 - 3972.5	0.472	26.74	13M7G7D
		16QAM	3707.5 - 3972.5	0.390	25.91	13M7W7D
	10 MHz	$\pi/2$ BPSK	3705.0 - 3975.0	0.454	26.57	8M59G7D
		QPSK	3705.0 - 3975.0	0.475	26.77	8M69G7D
		16QAM	3705.0 - 3975.0	0.393	25.95	8M66W7D

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UL - MIMO						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3450 - 3550MHz)	100 MHz	$\pi/2$ BPSK	3500.0	0.510	27.07	97M2G7D
		QPSK	3500.0	0.519	27.15	97M8G7D
		16QAM	3500.0	0.413	26.16	98M0W7D
	90 MHz	$\pi/2$ BPSK	3495.0 - 3505.0	0.497	26.96	86M9G7D
		QPSK	3495.0 - 3505.0	0.513	27.10	88M0G7D
		16QAM	3495.0 - 3505.0	0.408	26.10	87M7W7D
	80 MHz	$\pi/2$ BPSK	3490.0 - 3510.0	0.510	27.07	77M5G7D
		QPSK	3490.0 - 3510.0	0.531	27.25	77M9G7D
		16QAM	3490.0 - 3510.0	0.406	26.08	77M9W7D
	70 MHz	$\pi/2$ BPSK	3485.0 - 3515.0	0.529	27.23	64M7G7D
		QPSK	3485.0 - 3515.0	0.533	27.26	67M9G7D
		16QAM	3485.0 - 3515.0	0.434	26.37	67M7W7D
	60 MHz	$\pi/2$ BPSK	3480.0 - 3520.0	0.508	27.05	58M2G7D
		QPSK	3480.0 - 3520.0	0.512	27.09	58M1G7D
		16QAM	3480.0 - 3520.0	0.400	26.02	58M2W7D
	50 MHz	$\pi/2$ BPSK	3475.0 - 3525.0	0.505	27.03	46M0G7D
		QPSK	3475.0 - 3525.0	0.531	27.25	47M7G7D
		16QAM	3475.0 - 3525.0	0.425	26.28	47M7W7D
	40 MHz	$\pi/2$ BPSK	3470.0 - 3530.0	0.491	26.91	35M9G7D
		QPSK	3470.0 - 3530.0	0.521	27.16	38M1G7D
		16QAM	3470.0 - 3530.0	0.410	26.12	38M0W7D
	30 MHz	$\pi/2$ BPSK	3465.0 - 3535.0	0.513	27.10	27M0G7D
		QPSK	3465.0 - 3535.0	0.529	27.23	28M1G7D
		16QAM	3465.0 - 3535.0	0.424	26.27	28M1W7D
	25MHz	$\pi/2$ BPSK	3462.5 - 3537.5	0.504	27.02	23M0G7D
		QPSK	3462.5 - 3537.5	0.540	27.32	23M3G7D
		16QAM	3462.5 - 3537.5	0.421	26.24	23M3W7D
	20 MHz	$\pi/2$ BPSK	3460.0 - 3540.0	0.502	27.00	18M0G7D
		QPSK	3460.0 - 3540.0	0.505	27.03	18M3G7D
		16QAM	3460.0 - 3540.0	0.402	26.04	18M4W7D
	15 MHz	$\pi/2$ BPSK	3457.5 - 3542.5	0.497	26.96	13M0G7D
		QPSK	3457.5 - 3542.5	0.525	27.20	13M8G7D
		16QAM	3457.5 - 3542.5	0.417	26.20	13M7W7D
	10 MHz	$\pi/2$ BPSK	3455.0 - 3545.0	0.494	26.93	8M68G7D
		QPSK	3455.0 - 3545.0	0.515	27.11	8M71G7D
		16QAM	3455.0 - 3545.0	0.415	26.18	8M69W7D

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UL - MIMO						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3700 - 3980MHz)	100 MHz	$\pi/2$ BPSK	3750.0 - 3930.0	0.745	28.72	97M2G7D
		QPSK	3750.0 - 3930.0	0.692	28.40	98M1G7D
		16QAM	3750.0 - 3930.0	0.589	27.70	98M0W7D
	90 MHz	$\pi/2$ BPSK	3745.0 - 3935.0	0.715	28.54	87M0G7D
		QPSK	3745.0 - 3935.0	0.675	28.29	87M8G7D
		16QAM	3745.0 - 3935.0	0.576	27.60	87M9W7D
	80 MHz	$\pi/2$ BPSK	3740.0 - 3940.0	0.705	28.48	77M3G7D
		QPSK	3740.0 - 3940.0	0.681	28.33	77M8G7D
		16QAM	3740.0 - 3940.0	0.587	27.68	77M9W7D
	70 MHz	$\pi/2$ BPSK	3735.0 - 3945.0	0.713	28.53	64M4G7D
		QPSK	3735.0 - 3945.0	0.672	28.27	67M7G7D
		16QAM	3735.0 - 3945.0	0.610	27.85	67M6W7D
	60 MHz	$\pi/2$ BPSK	3730.0 - 3950.0	0.745	28.72	58M0G7D
		QPSK	3730.0 - 3950.0	0.691	28.39	58M0G7D
		16QAM	3730.0 - 3950.0	0.617	27.90	57M9W7D
	50 MHz	$\pi/2$ BPSK	3725.0 - 3955.0	0.738	28.68	45M9G7D
		QPSK	3725.0 - 3955.0	0.715	28.54	47M8G7D
		16QAM	3725.0 - 3955.0	0.616	27.89	47M8W7D
	40 MHz	$\pi/2$ BPSK	3720.0 - 3960.0	0.718	28.56	35M9G7D
		QPSK	3720.0 - 3960.0	0.677	28.30	38M1G7D
		16QAM	3720.0 - 3960.0	0.563	27.50	38M1W7D
	30 MHz	$\pi/2$ BPSK	3715.0 - 3965.0	0.733	28.65	27M0G7D
		QPSK	3715.0 - 3965.0	0.704	28.47	28M0G7D
		16QAM	3715.0 - 3965.0	0.602	27.79	28M1W7D
	25 MHz	$\pi/2$ BPSK	3712.5 - 3967.5	0.713	28.53	23M0G7D
		QPSK	3712.5 - 3967.5	0.696	28.42	23M3G7D
		16QAM	3712.5 - 3967.5	0.587	27.68	23M2W7D
	20 MHz	$\pi/2$ BPSK	3710.0 - 3970.0	0.715	28.54	18M0G7D
		QPSK	3710.0 - 3970.0	0.697	28.43	18M3G7D
		16QAM	3710.0 - 3970.0	0.592	27.72	18M4W7D
	15 MHz	$\pi/2$ BPSK	3707.5 - 3972.5	0.735	28.66	13M0G7D
		QPSK	3707.5 - 3972.5	0.708	28.50	13M6G7D
		16QAM	3707.5 - 3972.5	0.614	27.88	13M7W7D
	10 MHz	$\pi/2$ BPSK	3705.0 - 3975.0	0.688	28.37	8M59G7D
		QPSK	3705.0 - 3975.0	0.694	28.41	8M69G7D
		16QAM	3705.0 - 3975.0	0.595	27.74	8M64W7D

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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 test laboratory with the site description on file with ISED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113).
- 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 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 27.

Test Device Serial No.: 0532M, 0545M, 0533M, 0502M, 0789M, 0490M, 0267M, 1153M, 1154M

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), Wireless Power Transfer, UWB, NTN, SCS

This device supports Tx Device Hopping (ANT Switching) for the 5G NR Band n77 and can operate on two distinct paths. The paths are labeled as either Main or Switching paths. Testing was done on both paths and is included in this report.

This device can transmit in the 5G NR Band n77 band over four separate antennas labelled SRS-1, SRS-2, SRS-3, and SRS-4. SRS operation can occur on either the main or switching path. With SRS operations, any of these four antennas can transmit an SRS signal to check the channel quality for transmission in the n77 Band. However, these antennas cannot simultaneously transmit and only the SRS-1 antenna is capable of data transmission. The test data is marked to indicate the specific antenna transmitting in the n77 band.

This device supports Uplink MIMO (UL-MIMO) operation for the 5G NR Band n77 and operates in a 2x2 configuration using Ant F and Ant C. During this mode of operation SRS capabilities are additionally supported by four antennas, including the two UL-MIMO antennas, but only the UL-MIMO antennas are capable of data transmission in this mode. The test data is marked to indicate the specific antenna(s) transmitting in the n77 band.

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Antenna SRS-Label	Alternate Label
NR Band n77 – Main – SRS-1	Ant F
NR Band n77 – Main – SRS-2	Ant C
NR Band n77 – Main – SRS-3	Ant H
NR Band n77 – Main – SRS-4	Ant D
NR Band n77 – UL MIMO – SRS-1	Ant F + Ant C
NR Band n77 – UL MIMO – SRS-3	Ant H
NR Band n77 – UL MIMO – SRS-4	Ant D

Table 2-1. Antenna Labelling Scheme Correlation

Band	Ant1	Ant2	Ant3	Ant4
NR Band n77 - Main	Ant F	Ant C	Ant H	Ant D
NR Band n77 – UL MIMO	Ant F	Ant C	Ant H	Ant D

Table 2-2. Antenna Report Naming Convention

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.

2.4 Duty Cycle Information

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

For 5G NR operations, the EUT was set to transmit either via a Factory Test Mode (FTM) software provided by the manufacturer or in an online mode. The EUT duty cycle was set to 100% in all cases during FTM operation. During online operation the EUT duty cycle was set to an operational max using a callbox, where the max duty cycle was determined to be 20.0%. Gated and triggered measurement settings were used in this case. SRS and UL-MIMO operations were conducted using FTM while all other cases were conducted in an online mode.

For LTE TDD operation, a call box was used to force maximum transmission for each band. For LTE TDD bands, the maximum duty cycle is 63.3% for PC3 and 43.3% for PC2.

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2.5 Software and Firmware

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

2.6 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious Emissions

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

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

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

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

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

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

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

And

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

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

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

Table 4-1. Measurement Uncertainty Budget

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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	MD 1M 40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 40
-	AP1-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP1-002
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	AP2-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-002
-	ETS-001	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-001
-	ETS-002	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-002
-	LTx6-40	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx6-40
-	WL40-1	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-1
-	WL40-2	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-2
-	WL40-3	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-3
Agilent	N9038A	MXE EMI Receiver	9/16/2024	Annual	11/22/2025	MY51210133
Anritsu	MT8821C	Radio Communication Analyze	9/15/2025	Annual	9/15/2026	6201381794
Anritsu	MT8821C	Radio Communication Analyze	3/14/2025	Annual	3/14/2026	6262044715
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
Espec	ESX-2CA	Environmental Chamber	11/20/2024	Biennial	11/20/2026	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Keysight Technologies	N9030A	PXA Signal Analyzer	6/16/2025	Annual	6/16/2026	MY55410501
Keysight Technologies	N9020A	MXA Signal Analyzer	6/4/2025	Annual	6/4/2026	MY54500644
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	11/25/2024	Annual	11/25/2025	100348
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 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

Table 5-1. Test Equipment Calibration Table

Notes:

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

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Component	Serial Number
MegaPhase Cable, Model: TM40-K1K1-36	18160102 001
MCL 10dB Attenuator, Model: BW-K10 2W44+	1902

Table 5-2. WL40-1 Conducted Cable Set Components

Component	Serial Number
MegaPhase Cable, Model: TM40-K1K1-30	18165902 001
MCL 10dB Attenuator, Model: BW-K10 2W44+	2108

Table 5-3. WL40-2 Conducted Cable Set Components

Component	Serial Number
MegaPhase Cable, Model: TM40-K1K1-30	20335602 001
MCL 10dB Attenuator, Model: BW-K10 2W44+	2108

Table 5-4. WL40-3 Conducted Cable Set Components

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

Table 5-5. LTx6-40 Conducted Cable Set Components

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

Table 5-6. ETS-001 EMC Cable and Switch System Components

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

Table 5-7. ETS-002 EMC Cable and Switch System Components

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

Table 5-8. AP1-002 EMC Cable and Switch System Components

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Component	Serial Number
Flex Cable	P2A-0001
Micro-Coax Utilfex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Chamber Passthrough	CP4/X12
Micro-Coax Utilfex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Micro-Coax Utilfex Cable UFB142A-0-0629-5GU200 MFR 6463	232069-001
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181

Table 5-9. AP2-001 EMC Cable and Switch System Components

Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utilfex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utilfex Cable UFB311A-1-0629-50U50U MFR 64639	231986-002
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	19046401 001
Megaphase (CAGE 1GVT4) Flex Cable 10511-1	15044701-006
Micro-Coax Utilfex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-002
Micro-Coax Utilfex Cable UFB311A-1-0629-50U50U MFR 64639	231986-004
Micro-Coax Utilfex Cable UFB142A-0-0629-5GU200 MFR 64639	232069-001
Rohde & Schwarz SF Unit	102138
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181
Micro-Coax Utilfex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Micro-Coax Utilfex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335

Table 5-10. AP2-002 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase Cable TM40-K1K1-30	20233002-004
UTIPLEX Cable, 64639	232063-001
Rohde & Schwarz Pre-amp TS-PR1840 18G-40G	9037.7670.02

Table 5-11. MD 1M 18-40 EMC Cable and Switch System Components

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6.0 SAMPLE EMISSION DESIGNATORS

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

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7.0 TEST RESULTS

7.1 Summary

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

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power	2.1046(a), 2.1046(c)	N/A	PASS	Section 7.2
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3
	Conducted Band Edge / Spurious Emissions (NR Band n77)	2.1051, 27.53(l), 27.53(n)	≤ -13 dBm / MHz	PASS	Sections 7.4, 7.5
	Peak-to-Average Ratio (NR Band n77)	27.50(j)(4), 27.50(k)(4)	≤ 13 dB	PASS	Section 7.6
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block.	PASS	Section 7.9
RADIATED	Equivalent Isotropic Radiated Power (NR Band n77)	27.50(j)(3), 27.50(k)(3)	≤ 1 Watt EIRP	PASS	Section 7.7
	Radiated Spurious Emissions (NR Band n77)	2.1053, 27.53(l), 27.53(n)	≤ -13 dBm / MHz	PASS	Section 7.8

* 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

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 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.

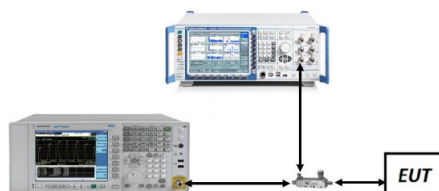


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. 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.
2. All other conducted power measurements are contained in the RF exposure report for this filing.
3. 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]
100 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 271	26.29
		633334	3500.01	1 / 271	26.33
		633334	3500.01	1 / 271	25.36
90 MHz	$\pi/2$ BPSK	633000	3495.00	1 / 243	26.19
		633334	3500.01	1 / 243	26.25
		633666	3504.99	1 / 243	26.38
	QPSK	633000	3495.00	1 / 243	26.21
		633334	3500.01	1 / 243	26.31
		633666	3504.99	1 / 243	26.34
	16-QAM	633334	3500.01	1 / 243	25.44
		632668	3490.02	1 / 215	26.28
		633334	3500.01	1 / 215	26.25
80 MHz	$\pi/2$ BPSK	634000	3510.00	1 / 215	26.28
		632668	3490.02	1 / 215	26.30
		633334	3500.01	1 / 215	26.27
	QPSK	634000	3510.00	1 / 215	26.26
		632668	3490.02	1 / 215	25.37
	16-QAM	632668	3490.02	1 / 215	25.37
		634332	3514.98	1 / 187	26.15
		633334	3500.01	1 / 187	26.21
		634332	3514.98	1 / 187	26.27
70 MHz	$\pi/2$ BPSK	632334	3485.01	1 / 187	26.16
		633334	3500.01	1 / 187	26.20
		634332	3514.98	1 / 187	26.33
	QPSK	632334	3485.01	1 / 187	26.16
		633334	3500.01	1 / 187	26.20
		634332	3514.98	1 / 187	26.33
	16-QAM	634332	3514.98	1 / 187	25.38
		632000	3480.00	1 / 160	26.31
		633334	3500.01	1 / 160	26.27
60 MHz	$\pi/2$ BPSK	634666	3519.99	1 / 160	26.41
		632000	3480.00	1 / 160	26.36
		633334	3500.01	1 / 160	26.32
	QPSK	634666	3519.99	1 / 160	26.41
		632000	3480.00	1 / 160	26.32
		633334	3500.01	1 / 160	26.32
	16-QAM	634666	3519.99	1 / 160	25.39
		631668	3475.02	1 / 66	26.44
		633334	3500.01	1 / 66	26.54
50 MHz	$\pi/2$ BPSK	635000	3525.00	1 / 66	26.63
		631668	3475.02	1 / 66	26.48
		633334	3500.01	1 / 131	26.54
	QPSK	635000	3525.00	1 / 1	26.55
		631668	3475.02	1 / 66	25.54
		633334	3500.01	1 / 131	25.65
	16-QAM	635000	3525.00	1 / 66	25.62
		631334	3470.01	1 / 53	26.34
		633334	3500.01	1 / 104	26.42
40 MHz	$\pi/2$ BPSK	635332	3529.98	1 / 1	26.51
		631334	3470.01	1 / 53	26.33
		633334	3500.01	1 / 104	26.41
	QPSK	635332	3529.98	1 / 1	26.50
		631334	3470.01	1 / 53	26.34
		633334	3500.01	1 / 104	26.42
	16-QAM	635332	3529.98	1 / 53	25.60
		631000	3465.00	1 / 76	26.33
		633334	3500.01	1 / 1	26.45
30 MHz	$\pi/2$ BPSK	635666	3534.99	1 / 76	26.55
		631000	3465.00	1 / 1	26.30
		633334	3500.01	1 / 76	26.47
	QPSK	635666	3534.99	1 / 76	26.59
		631000	3465.00	1 / 76	26.47
		633334	3500.01	1 / 76	26.47
	16-QAM	635666	3534.99	1 / 76	25.53
		630834	3462.51	1 / 63	26.38
		633334	3500.01	1 / 63	26.45
25 MHz	$\pi/2$ BPSK	635832	3537.48	1 / 1	26.53
		630834	3462.51	1 / 63	26.37
		633334	3500.01	1 / 63	26.45
	QPSK	635832	3537.48	1 / 1	26.54
		630834	3462.51	1 / 63	26.37
		633334	3500.01	1 / 63	26.45
	16-QAM	635832	3537.48	1 / 1	25.60
		630668	3460.02	1 / 49	25.98
		633334	3500.01	1 / 1	26.10
20 MHz	$\pi/2$ BPSK	636000	3540.00	1 / 1	26.18
		630668	3460.02	1 / 49	25.97
		633334	3500.01	1 / 49	26.11
	QPSK	636000	3540.00	1 / 1	26.20
		630668	3460.02	1 / 49	25.97
		633334	3500.01	1 / 49	26.11
	16-QAM	636000	3540.00	1 / 1	25.24
		630500	3457.50	1 / 36	26.18
		633334	3500.01	1 / 36	26.15
15 MHz	$\pi/2$ BPSK	636166	3542.49	1 / 36	26.20
		630500	3457.50	1 / 36	26.18
		633334	3500.01	1 / 19	26.12
	QPSK	636166	3542.49	1 / 36	26.29
		630500	3457.50	1 / 36	26.18
		633334	3500.01	1 / 19	26.12
	16-QAM	636166	3542.49	1 / 36	25.33
		630334	3455.01	1 / 22	25.97
		633334	3500.01	1 / 1	26.15
10 MHz	$\pi/2$ BPSK	636332	3544.98	1 / 1	26.25
		630334	3455.01	1 / 1	25.96
		633334	3500.01	1 / 22	26.18
	QPSK	636332	3544.98	1 / 22	26.25
		630334	3455.01	1 / 1	25.96
		633334	3500.01	1 / 22	26.18
	16-QAM	636332	3544.98	1 / 1	25.16
		630334	3455.01	1 / 22	25.97
		633334	3500.01	1 / 1	26.15

Table 7-2. Conducted Power Results – n77 – Ant1 – DoD Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 20 of 180

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 136	22.13
	QPSK	633334	3500.01	1 / 271	22.12
	16-QAM	633334	3500.01	1 / 271	21.16

Table 7-3. Conducted Power Results – n77 – Ant2 – DoD Band – Main

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 271	25.39
	QPSK	633334	3500.01	1 / 271	25.36
	16-QAM	633334	3500.01	1 / 271	25.24

Table 7-4. Conducted Power Results – n77 – Ant3 – DoD Band – Main

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 136	21.61
	QPSK	633334	3500.01	1 / 271	21.66
	16-QAM	633334	3500.01	1 / 271	20.77

Table 7-5. Conducted Power Results – n77 – Ant4 – DoD Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 21 of 180

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	π/2 BPSK	650000	3750.00	1 / 1	26.78
		656000	3840.00	1 / 1	26.98
		662000	3930.00	1 / 1	26.94
	QPSK	650000	3750.00	1 / 1	26.44
		656000	3840.00	1 / 1	26.76
		662000	3930.00	1 / 1	26.71
90 MHz	π/2 BPSK	649668	3745.02	1 / 243	26.57
		656000	3840.00	1 / 1	26.87
		662332	3934.98	1 / 1	26.94
	QPSK	649668	3745.02	1 / 1	26.50
		656000	3840.00	1 / 1	26.77
		662332	3934.98	1 / 1	26.92
80 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.68
		649334	3740.01	1 / 1	26.62
		662666	3939.99	1 / 1	26.79
	QPSK	649334	3740.01	1 / 1	26.44
		656000	3840.00	1 / 1	26.76
		662666	3939.99	1 / 1	26.71
70 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.65
		649000	3735.00	1 / 1	26.48
		663000	3945.00	1 / 187	26.56
	QPSK	649000	3735.00	1 / 187	26.45
		656000	3840.00	1 / 1	26.77
		663000	3945.00	1 / 1	26.57
60 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.65
		648668	3730.02	1 / 1	26.60
		663332	3949.98	1 / 1	26.62
	QPSK	648668	3730.02	1 / 1	26.49
		656000	3840.00	1 / 1	26.55
		663332	3949.98	1 / 1	26.54
50 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.43
		648334	3725.01	1 / 66	26.60
		663666	3954.99	1 / 66	26.75
	QPSK	648334	3725.01	1 / 66	26.51
		656000	3840.00	1 / 1	26.86
		663666	3954.99	1 / 1	26.59
40 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.74
		648000	3720.00	1 / 1	26.65
		664000	3960.00	1 / 1	26.69
	QPSK	648000	3720.00	1 / 53	26.53
		656000	3840.00	1 / 1	26.51
		664000	3960.00	1 / 1	26.63
30 MHz	π/2 BPSK	656000	3840.00	1 / 1	26.44
		647668	3715.02	1 / 76	26.56
		664332	3964.98	1 / 1	26.80
	QPSK	647668	3715.02	1 / 39	26.45
		656000	3840.00	1 / 1	26.67
		664332	3964.98	1 / 1	26.57
25 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.50
		647500	3712.50	1 / 32	26.71
		664500	3967.50	1 / 1	26.82
	QPSK	647500	3712.50	1 / 1	26.60
		656000	3840.00	1 / 1	26.62
		664500	3967.50	1 / 1	26.75
20 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.68
		647334	3710.01	1 / 25	26.52
		664666	3969.99	1 / 25	26.74
	QPSK	647334	3710.01	1 / 25	26.37
		656000	3840.00	1 / 1	26.64
		664666	3969.99	1 / 1	26.40
15 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.55
		647168	3707.52	1 / 1	26.52
		664832	3972.48	1 / 1	26.81
	QPSK	647168	3707.52	1 / 36	26.39
		656000	3840.00	1 / 1	26.60
		664832	3972.48	1 / 1	26.48
10 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.57
		647000	3705.00	1 / 22	26.49
		664332	3975.00	1 / 22	26.70
	QPSK	647000	3705.00	1 / 22	26.36
		656000	3840.00	1 / 22	26.63
		664332	3975.00	1 / 22	26.45
10 MHz	16-QAM	656000	3840.00	1 / 1	25.61
		656000	3840.00	1 / 1	25.61

Table 7-6. Conducted Power Results – n77 – Ant1 – C-Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 22 of 180

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	650000	3750.00	1 / 136	21.69
		656000	3840.00	1 / 1	21.79
		662000	3930.00	1 / 1	21.27
	QPSK	650000	3750.00	1 / 136	21.57
		656000	3840.00	1 / 1	21.74
		662000	3930.00	1 / 1	21.25
	16-QAM	656000	3840.00	1 / 1	20.59

Table 7-7. Conducted Power Results – n77 – Ant2 – C-Band – Main

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	650000	3750.00	1 / 136	25.05
		656000	3840.00	1 / 136	25.77
		662000	3930.00	1 / 1	25.68
	QPSK	650000	3750.00	1 / 136	25.01
		656000	3840.00	1 / 136	25.66
		662000	3930.00	1 / 1	25.69
	16-QAM	662000	3930.00	1 / 1	25.57

Table 7-8. Conducted Power Results – n77 – Ant3 – C-Band – Main

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	650000	3750.00	1 / 136	21.34
		656000	3840.00	1 / 136	21.86
		662000	3930.00	1 / 136	21.78
	QPSK	650000	3750.00	1 / 136	21.26
		656000	3840.00	1 / 136	21.74
		662000	3930.00	1 / 136	21.73
	16-QAM	656000	3840.00	1 / 136	20.63

Table 7-9. Conducted Power Results – n77 – Ant4 – C-Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 23 of 180

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]		
					ANT 1	ANT 2	UL_MIMO
100 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 271	26.40	26.56	29.49
	QPSK	633334	3500.01	1 / 271	26.44	26.51	29.49
	16-QAM	633334	3500.01	1 / 271	25.28	25.48	28.39
90 MHz	$\pi/2$ BPSK	633000	3495.00	1 / 243	26.35	26.38	29.38
		633334	3500.01	1 / 243	26.32	26.37	29.36
		633666	3504.99	1 / 243	26.32	26.34	29.34
	QPSK	633000	3495.00	1 / 243	26.36	26.48	29.43
		633334	3500.01	1 / 243	26.40	26.38	29.40
		633666	3504.99	1 / 243	26.45	26.41	29.44
	16-QAM	633666	3504.99	1 / 243	25.17	25.32	28.26
		632668	3490.02	1 / 215	26.39	26.33	29.37
		633334	3500.01	1 / 215	26.44	26.31	29.39
80 MHz	$\pi/2$ BPSK	634000	3510.00	1 / 215	26.48	26.48	29.49
		632668	3490.02	1 / 215	26.53	26.44	29.50
		633334	3500.01	1 / 215	26.46	26.56	29.52
	QPSK	634000	3510.00	1 / 215	26.50	26.65	29.59
		632668	3490.02	1 / 215	25.32	25.27	28.31
		632334	3485.01	1 / 1	26.13	27.05	29.62
	16-QAM	633334	3500.01	1 / 1	26.20	27.02	29.64
		634332	3514.98	1 / 1	26.27	26.98	29.65
		632334	3485.01	1 / 1	26.22	26.91	29.59
70 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 1	26.25	26.83	29.56
		634332	3514.98	1 / 1	26.37	26.80	29.60
		633334	3500.01	1 / 94	25.11	26.03	28.60
	QPSK	632000	3480.00	1 / 1	26.01	26.40	29.22
		633334	3500.01	1 / 1	26.12	26.36	29.25
		634666	3519.99	1 / 1	26.40	26.51	29.47
	16-QAM	632000	3480.00	1 / 1	26.13	26.47	29.31
		633334	3500.01	1 / 160	26.20	26.44	29.33
		634666	3519.99	1 / 1	26.40	26.43	29.43
60 MHz	$\pi/2$ BPSK	631668	3475.02	1 / 1	26.30	26.45	29.39
		633334	3500.01	1 / 1	26.36	26.52	29.45
		635000	3525.00	1 / 1	26.32	26.44	29.39
	QPSK	631668	3475.02	1 / 131	26.39	26.58	29.50
		633334	3500.01	1 / 1	26.43	26.58	29.52
		635000	3525.00	1 / 131	26.47	26.69	29.59
	16-QAM	635000	3525.00	1 / 1	25.41	25.59	28.51
		631334	3470.01	1 / 1	26.20	26.31	29.27
		633334	3500.01	1 / 1	26.26	26.38	29.33
50 MHz	$\pi/2$ BPSK	635332	3529.98	1 / 1	26.20	26.30	29.26
		631334	3470.01	1 / 1	26.28	26.49	29.40
		633334	3500.01	1 / 1	26.33	26.41	29.38
	QPSK	635332	3529.98	1 / 1	26.47	26.51	29.50
		635332	3529.98	1 / 1	25.33	25.35	28.35
		631000	3465.00	1 / 76	26.33	26.32	29.34
	16-QAM	633334	3500.01	1 / 1	26.38	26.47	29.44
		635666	3534.99	1 / 1	26.51	26.50	29.52
		631000	3465.00	1 / 1	26.53	26.47	29.51
40 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 76	26.50	26.49	29.51
		635666	3534.99	1 / 1	26.65	26.46	29.57
		633334	3500.01	1 / 1	25.44	25.53	28.50
	QPSK	630834	3462.51	1 / 63	26.20	26.21	29.22
		633334	3500.01	1 / 63	26.45	26.41	29.44
		635832	3537.48	1 / 1	26.47	26.29	29.39
	16-QAM	630834	3462.51	1 / 63	26.34	26.40	29.38
		633334	3500.01	1 / 63	26.58	26.66	29.63
		635832	3537.48	1 / 63	26.72	26.58	29.66
30 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 63	25.35	25.56	28.47
		630668	3460.02	1 / 49	26.04	26.25	29.16
		633334	3500.01	1 / 25	26.05	26.18	29.13
	QPSK	636000	3540.00	1 / 25	26.37	26.44	29.42
		630668	3460.02	1 / 49	26.21	26.42	29.24
		633334	3500.01	1 / 49	26.34	26.38	29.37
	16-QAM	636000	3540.00	1 / 49	26.28	26.36	29.33
		636000	3540.00	1 / 25	25.33	25.18	28.27
		630500	3457.50	1 / 19	26.15	26.46	29.32
20 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 19	26.23	26.50	29.38
		636166	3542.49	1 / 1	26.36	26.32	29.35
		630500	3457.50	1 / 1	26.27	26.52	29.41
	QPSK	633334	3500.01	1 / 19	26.43	26.63	29.54
		636166	3542.49	1 / 1	26.52	26.50	29.52
		636166	3542.49	1 / 19	25.40	25.43	28.43
	16-QAM	630334	3455.01	1 / 12	26.10	26.56	29.35
		633334	3500.01	1 / 12	26.11	26.39	29.26
		636332	3544.98	1 / 12	26.25	26.31	29.29
10 MHz	$\pi/2$ BPSK	630334	3455.01	1 / 12	26.33	26.49	29.42
		633334	3500.01	1 / 12	26.31	26.39	29.36
		636332	3544.98	1 / 12	26.60	26.27	29.45
	QPSK	633334	3500.01	1 / 12	25.54	25.25	28.41
		630334	3455.01	1 / 12	26.10	26.56	29.35
		633334	3500.01	1 / 12	26.11	26.39	29.26
	16-QAM	636332	3544.98	1 / 12	26.25	26.31	29.29
		630334	3455.01	1 / 12	26.33	26.49	29.42
		633334	3500.01	1 / 12	26.31	26.39	29.36

Table 7-10. Conducted Power Results – n77 – DoD Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 24 of 180

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]		
					ANT 1	ANT 2	UL_MIMO
100 MHz	π/2 BPSK	650000	3750.00	1 / 1	26.42	26.61	29.53
		656000	3840.00	1 / 1	26.48	26.89	29.70
		662000	3930.00	1 / 1	26.38	26.88	29.65
	QPSK	650000	3750.00	1 / 1	26.57	26.49	29.54
		656000	3840.00	1 / 1	26.49	26.82	29.67
		662000	3930.00	1 / 1	26.42	26.65	29.55
90 MHz	π/2 BPSK	656000	3840.00	1 / 1	25.20	25.79	28.52
		649668	3745.02	1 / 1	26.33	26.31	29.33
		656000	3840.00	1 / 1	26.39	26.62	29.52
	QPSK	662332	3934.98	1 / 1	26.27	26.52	29.41
		649668	3745.02	1 / 1	26.38	26.46	29.43
		656000	3840.00	1 / 1	26.40	26.69	29.56
80 MHz	π/2 BPSK	662332	3934.98	1 / 1	26.35	26.45	29.41
		656000	3840.00	1 / 1	25.22	25.60	28.42
		649334	3740.01	1 / 1	26.32	26.48	29.41
	QPSK	656000	3840.00	1 / 1	26.29	26.61	29.46
		662666	3939.99	1 / 1	26.23	26.46	29.36
		649334	3740.01	1 / 1	26.46	26.45	29.47
70 MHz	π/2 BPSK	656000	3840.00	1 / 1	26.42	26.75	29.60
		662666	3939.99	1 / 1	26.28	26.57	29.44
		656000	3840.00	1 / 1	25.24	25.72	28.50
	QPSK	649000	3735.00	1 / 94	26.39	26.48	29.45
		656000	3840.00	1 / 94	26.38	26.61	29.51
		663000	3945.00	1 / 94	26.23	26.58	29.42
60 MHz	π/2 BPSK	649000	3735.00	1 / 94	26.39	26.56	29.49
		656000	3840.00	1 / 94	26.32	26.73	29.54
		663000	3945.00	1 / 94	26.15	26.72	29.45
	QPSK	656000	3840.00	1 / 94	26.46	26.45	29.47
		662666	3939.99	1 / 1	26.28	26.57	29.44
		656000	3840.00	1 / 1	25.24	25.72	28.50
50 MHz	π/2 BPSK	648668	3730.02	1 / 1	27.10	26.30	29.73
		656000	3840.00	1 / 1	27.01	26.35	29.70
		663332	3949.98	1 / 1	26.88	26.37	29.64
	QPSK	648668	3730.02	1 / 1	26.93	26.18	29.58
		656000	3840.00	1 / 1	26.86	26.42	29.66
		663332	3949.98	1 / 1	26.67	26.36	29.53
40 MHz	π/2 BPSK	656000	3840.00	1 / 1	26.08	25.31	28.72
		648334	3725.01	1 / 1	26.58	26.48	29.54
		656000	3840.00	1 / 1	26.61	26.69	29.66
	QPSK	663666	3954.99	1 / 1	26.34	26.04	29.20
		648334	3725.01	1 / 1	26.71	26.48	29.61
		656000	3840.00	1 / 1	26.78	26.82	29.81
30 MHz	π/2 BPSK	663666	3954.99	1 / 131	26.45	26.29	29.38
		656000	3840.00	1 / 1	25.64	25.75	28.71
		648000	3720.00	1 / 1	26.42	26.27	29.36
	QPSK	656000	3840.00	1 / 1	26.59	26.46	29.54
		664000	3960.00	1 / 1	26.17	25.83	29.01
		648000	3720.00	1 / 1	26.72	26.47	29.61
25 MHz	π/2 BPSK	656000	3840.00	1 / 104	26.56	26.55	29.57
		664000	3960.00	1 / 1	26.35	26.01	29.19
		656000	3840.00	1 / 1	25.18	25.43	28.32
	QPSK	647668	3715.02	1 / 76	26.50	26.28	29.40
		656000	3840.00	1 / 1	26.72	26.51	29.63
		664332	3964.98	1 / 1	26.43	26.11	29.28
20 MHz	π/2 BPSK	647668	3715.02	1 / 1	26.78	26.43	29.62
		656000	3840.00	1 / 1	26.80	26.65	29.74
		664332	3964.98	1 / 1	26.53	26.07	29.32
	QPSK	656000	3840.00	1 / 1	25.68	25.52	28.61
		647500	3712.50	1 / 32	26.42	26.33	29.39
		656000	3840.00	1 / 32	26.53	26.46	29.51
15 MHz	π/2 BPSK	664500	3967.50	1 / 32	26.35	26.14	29.26
		647500	3712.50	1 / 32	26.76	26.47	29.63
		656000	3840.00	1 / 1	26.76	26.59	29.69
	QPSK	664500	3967.50	1 / 1	26.54	26.15	29.36
		656000	3840.00	1 / 32	25.56	25.41	28.50
		647334	3710.01	1 / 25	26.49	26.43	29.47
10 MHz	π/2 BPSK	656000	3840.00	1 / 25	26.56	26.45	29.52
		664666	3969.99	1 / 1	26.27	26.24	29.27
		647334	3710.01	1 / 25	26.58	26.42	29.51
	QPSK	656000	3840.00	1 / 25	26.67	26.70	29.70
		664666	3969.99	1 / 25	26.60	26.33	29.48
		656000	3840.00	1 / 1	25.43	25.62	28.54

Table 7-11. Conducted Power Results – n77 – C- Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 25 of 180

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 271	25.44
	QPSK	633334	3500.01	1 / 271	25.44
	16-QAM	633334	3500.01	1 / 271	25.27

Table 7-12. Conducted Power Results – n77 – Ant4 – DoD Band – UL-MIMO

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	650000	3750.00	1 / 136	24.77
		656000	3840.00	1 / 136	25.27
		662000	3930.00	1 / 136	25.36
	QPSK	650000	3750.00	1 / 136	24.82
		656000	3840.00	1 / 136	25.28
		662000	3930.00	1 / 136	25.40
	16-QAM	662000	3930.00	1 / 136	25.20

Table 7-13. Conducted Power Results – n77 – Ant4 – C-Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.3 Occupied Bandwidth

Test Overview

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

Test Procedure Used

ANSI C63.26:2015 – Section 5.4.4

Test Settings

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

Test Setup

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

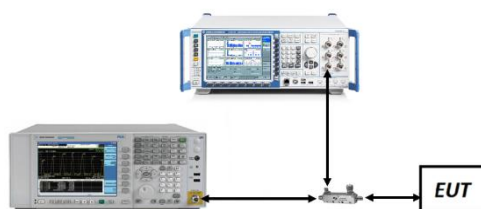


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

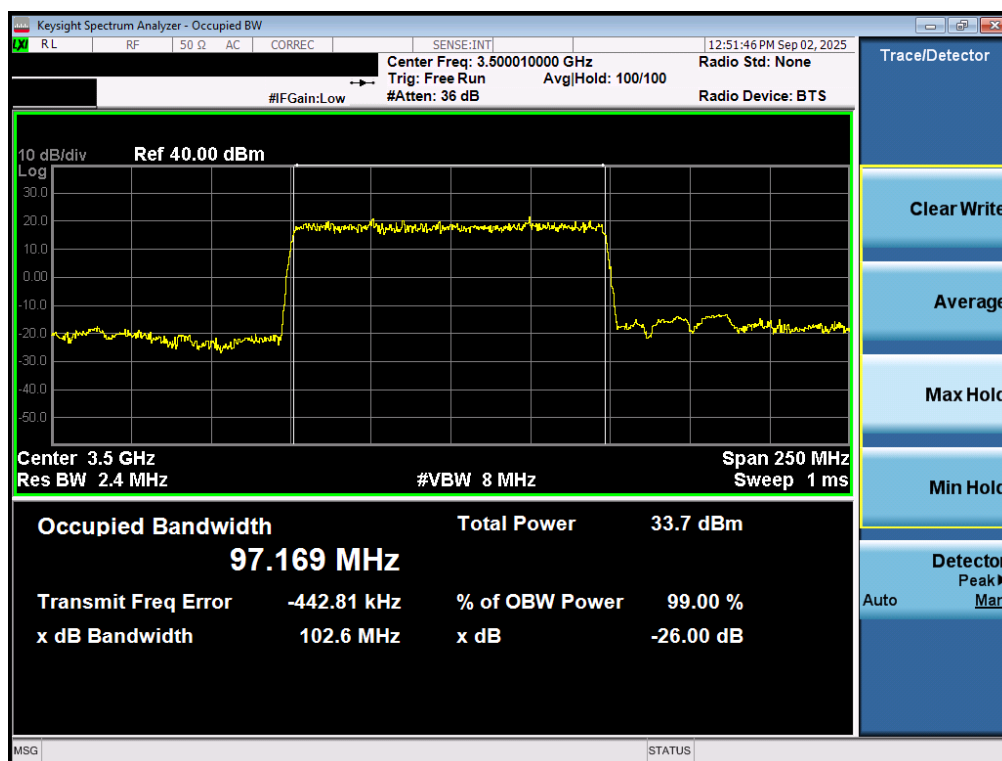
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2 DoD Band	100MHz	$\pi/2$ BPSK	97.169
		QPSK	98.056
		16QAM	98.010
	90MHz	$\pi/2$ BPSK	87.287
		QPSK	87.837
		16QAM	88.014
	80MHz	$\pi/2$ BPSK	77.523
		QPSK	77.921
		16QAM	78.091
	70MHz	$\pi/2$ BPSK	64.673
		QPSK	67.881
		16QAM	67.797
	60MHz	$\pi/2$ BPSK	58.211
		QPSK	58.099
		16QAM	58.202
	50MHz	$\pi/2$ BPSK	45.975
		QPSK	47.741
		16QAM	47.731
	40MHz	$\pi/2$ BPSK	35.945
		QPSK	38.018
		16QAM	38.020
	30MHz	$\pi/2$ BPSK	27.046
		QPSK	28.048
		16QAM	28.082
	25MHz	$\pi/2$ BPSK	22.981
		QPSK	23.326
		16QAM	23.314
	20MHz	$\pi/2$ BPSK	18.042
		QPSK	18.318
		16QAM	18.372
	15MHz	$\pi/2$ BPSK	12.994
		QPSK	13.718
		16QAM	13.695
	10MHz	$\pi/2$ BPSK	8.663
		QPSK	8.719
		16QAM	8.716

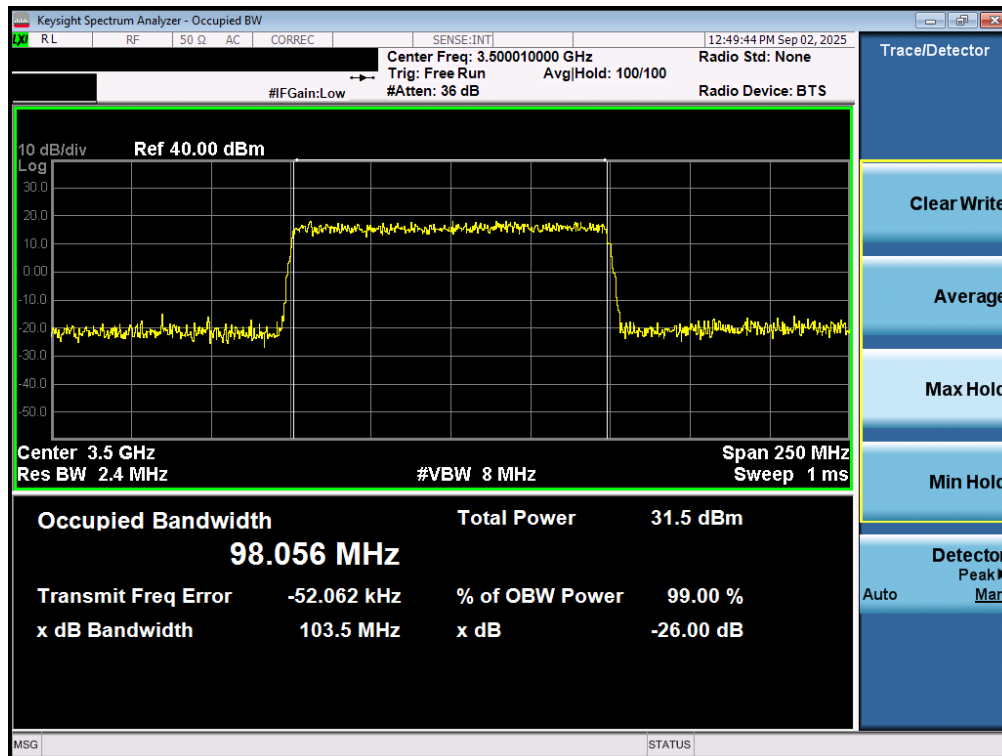
Table 7-14. Occupied Bandwidth Results - Ant1 - DoD Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77PC2 - Ant1 - DoD Band - Main

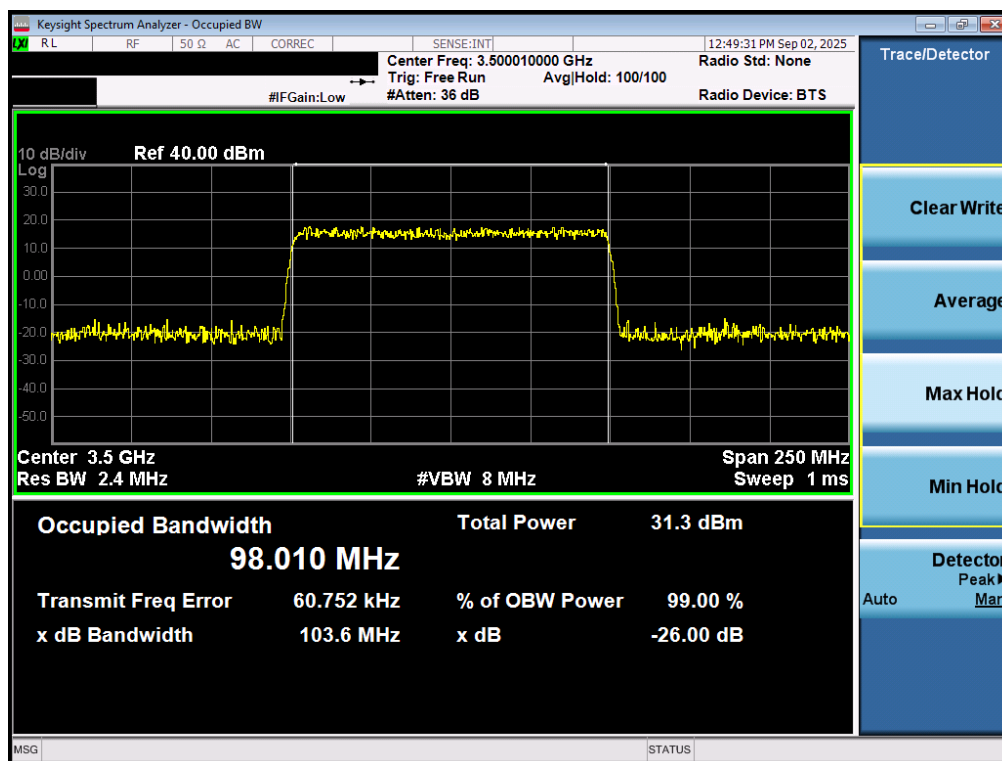


Plot 7-1. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

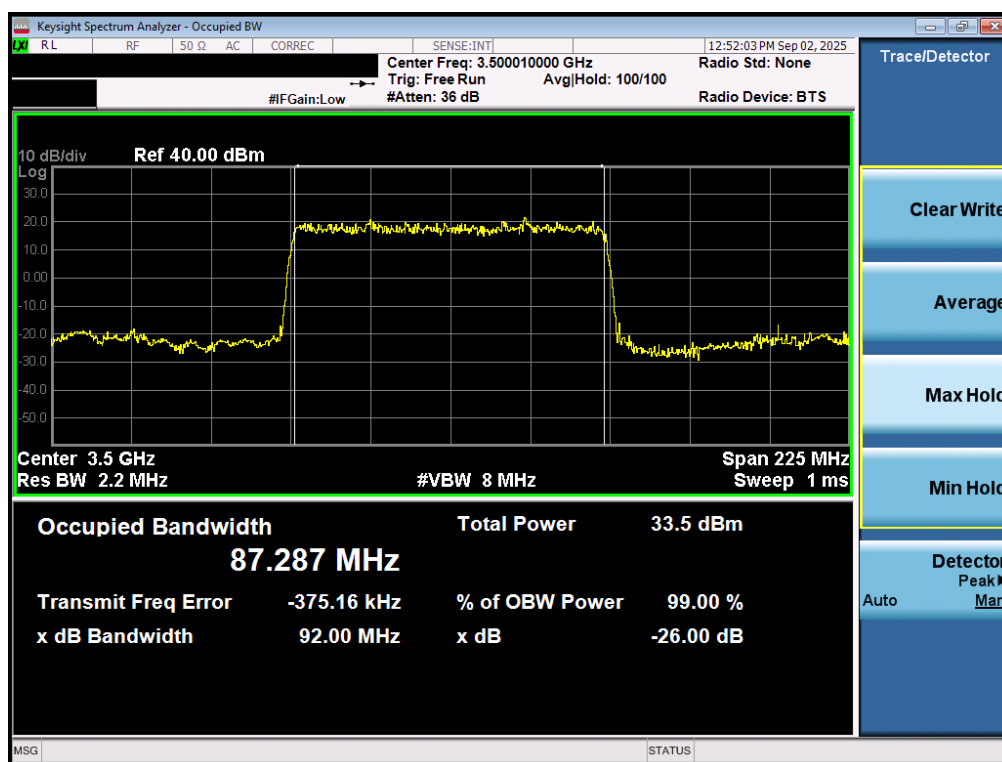


Plot 7-2. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz QPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 29 of 180

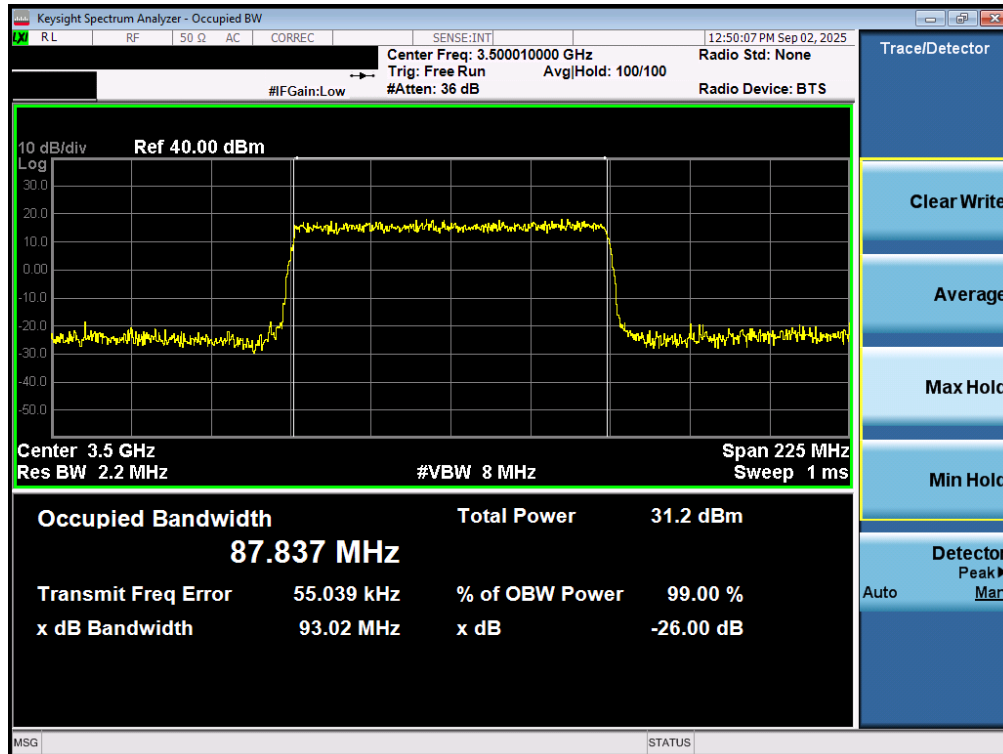


Plot 7-3. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

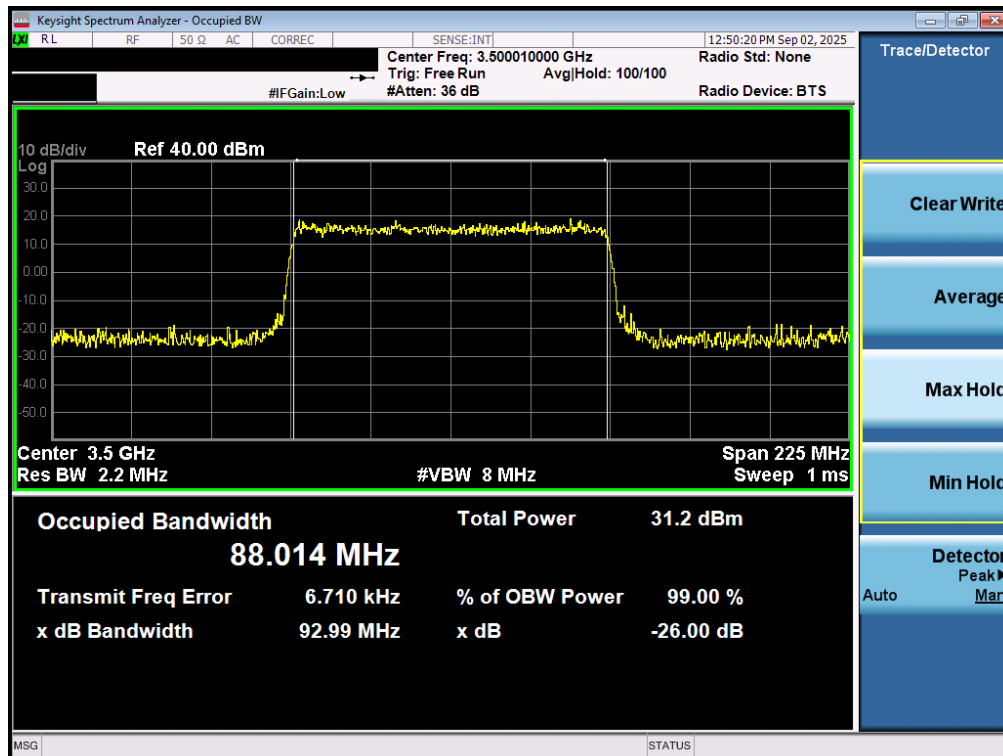


Plot 7-4. Occupied Bandwidth Plot (NR Band n77 - 90MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 30 of 180

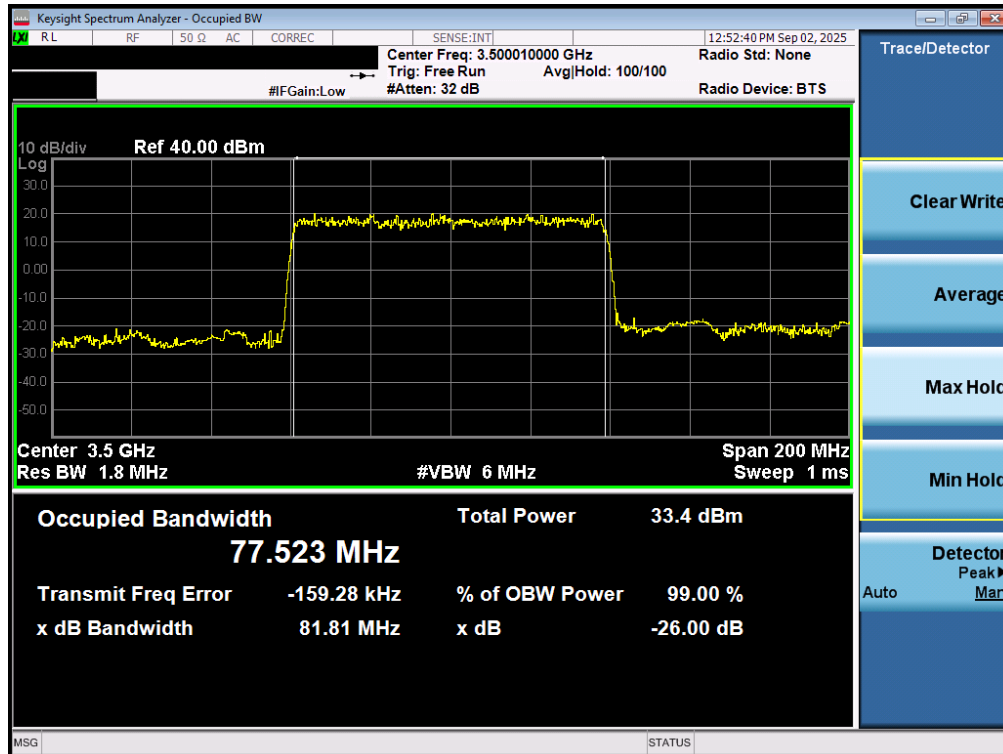


Plot 7-5. Occupied Bandwidth Plot (NR Band n77 - 90MHz QPSK - Full RB - Ant1 - DoD Band - Main)

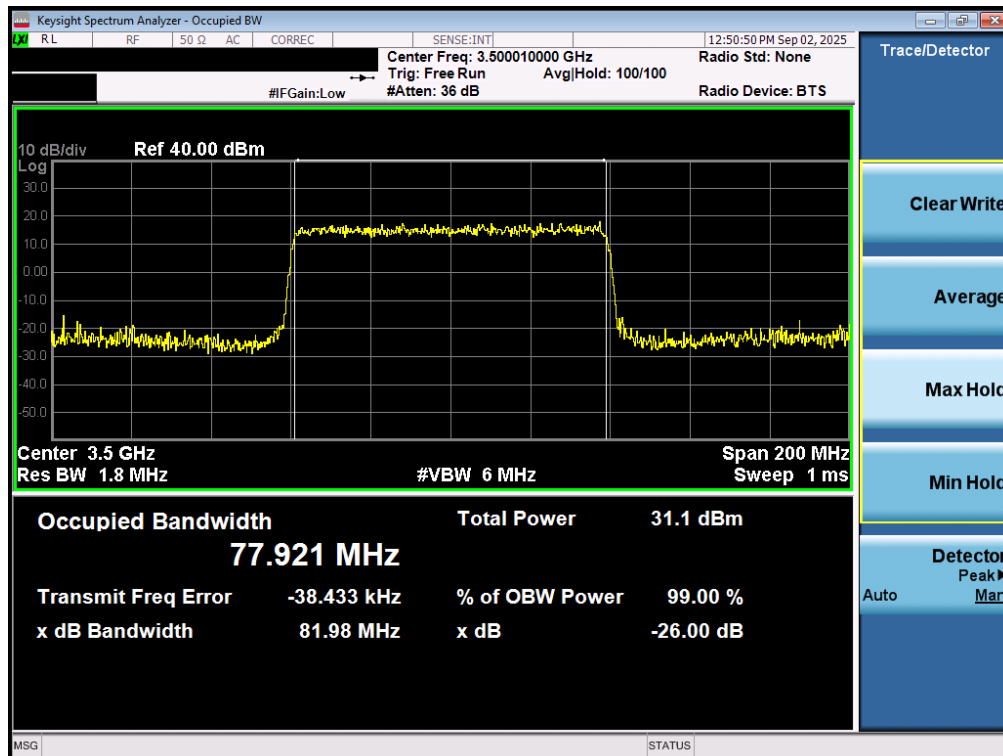


Plot 7-6. Occupied Bandwidth Plot (NR Band n77 - 90MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 31 of 180

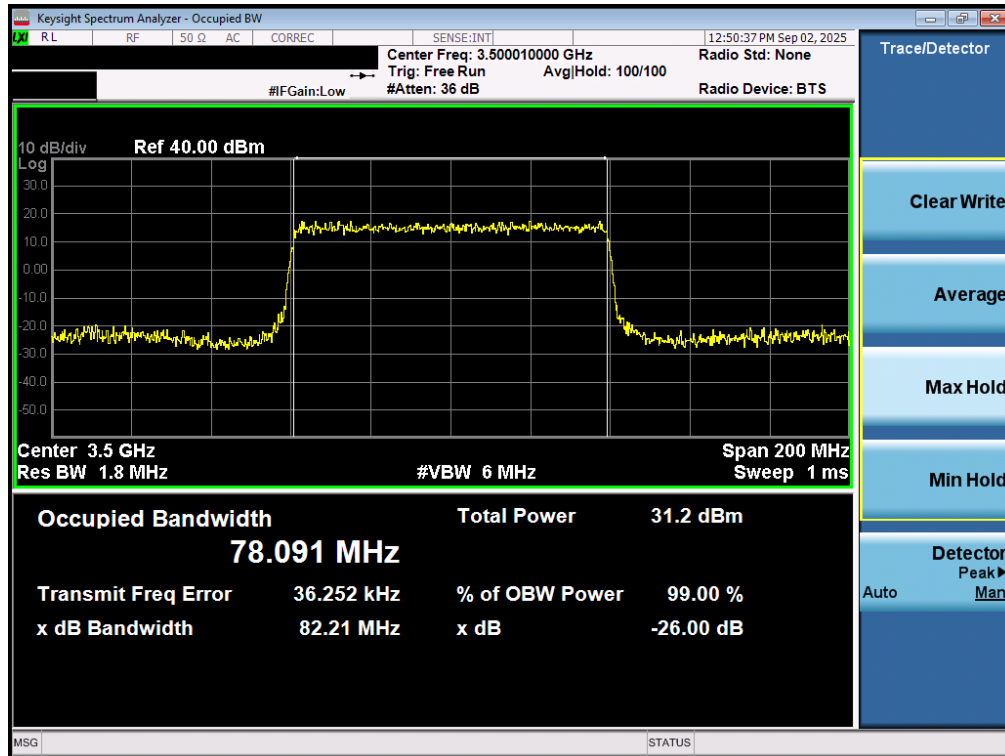


Plot 7-7. Occupied Bandwidth Plot (NR Band n77 - 80MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

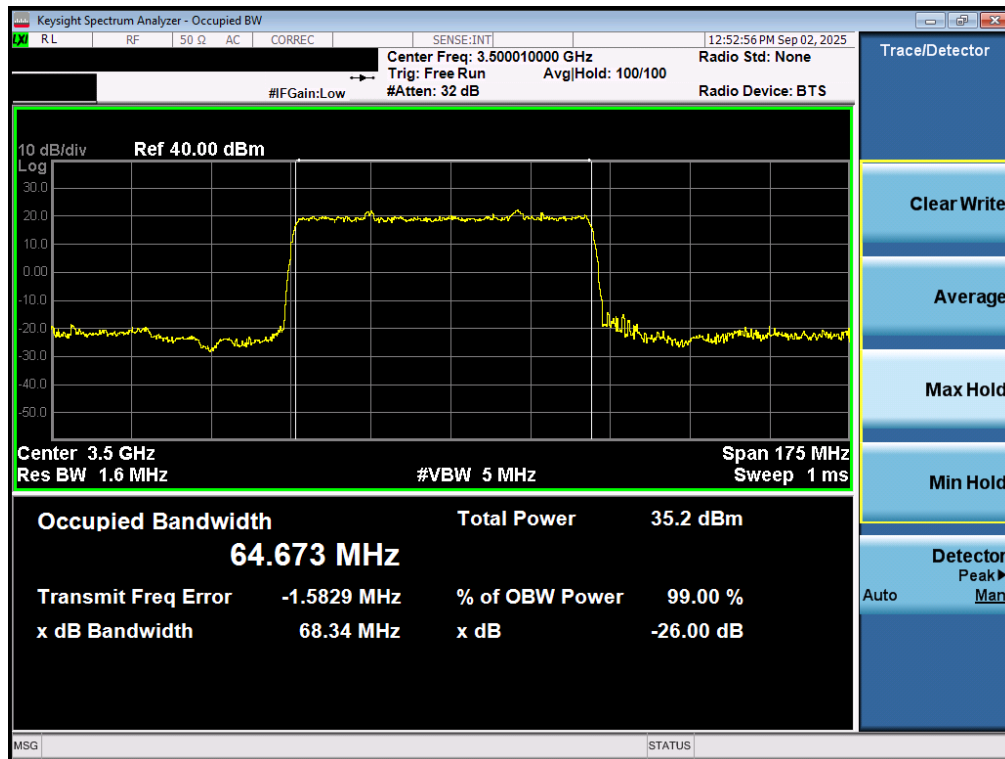


Plot 7-8. Occupied Bandwidth Plot (NR Band n77 - 80MHz QPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 32 of 180

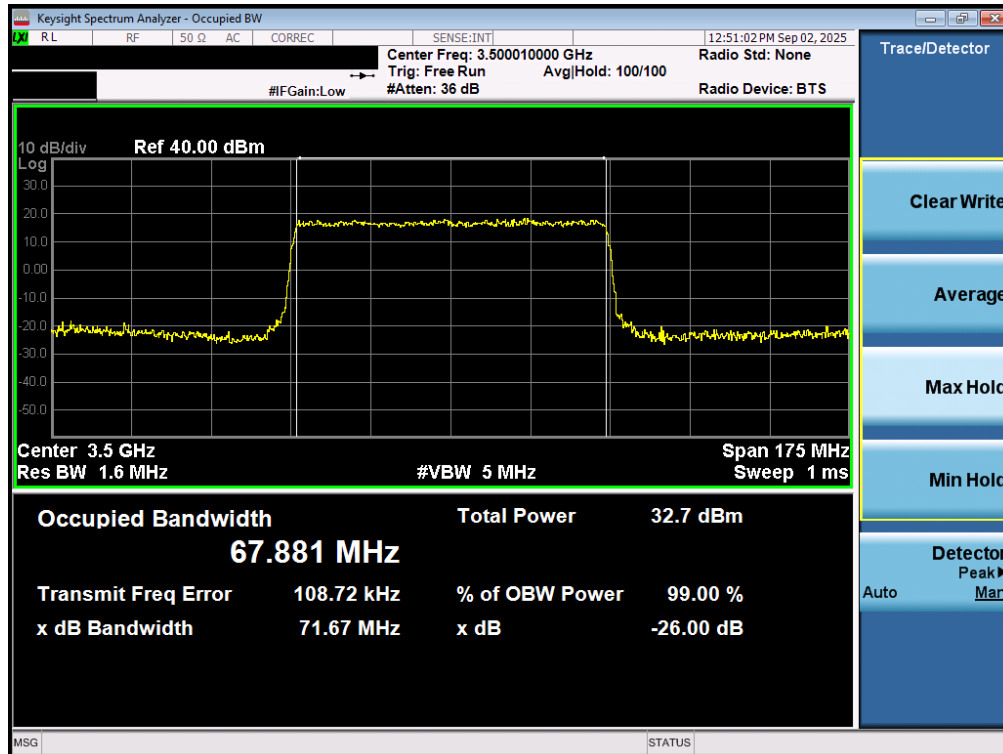


Plot 7-9. Occupied Bandwidth Plot (NR Band n77 - 80MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

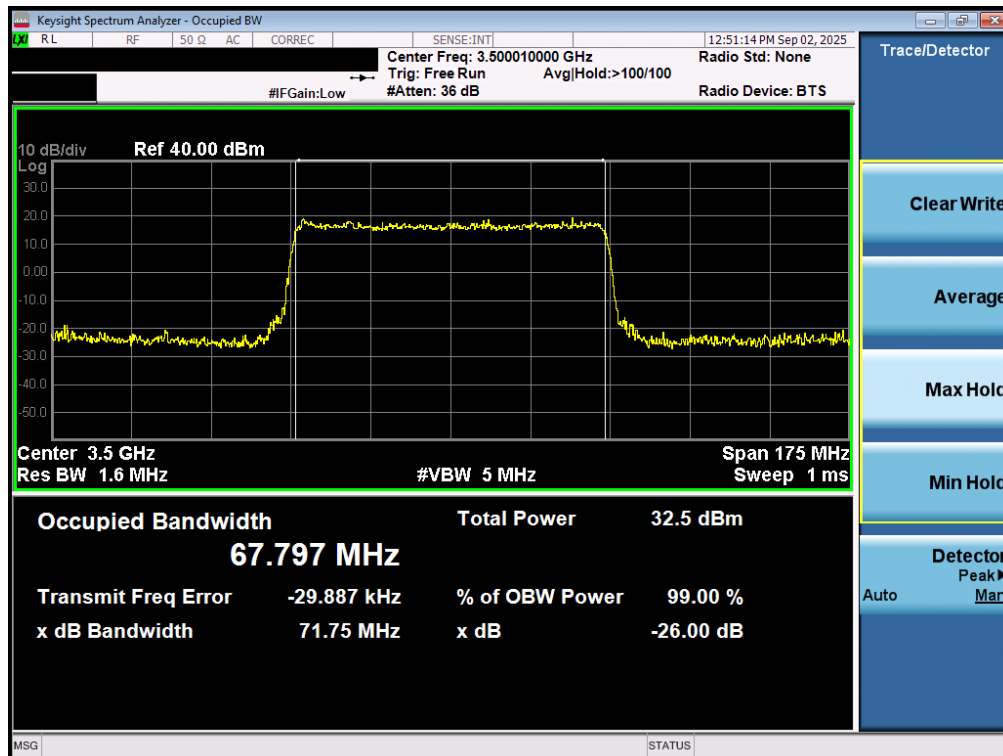


Plot 7-10. Occupied Bandwidth Plot (NR Band n77 - 70MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 33 of 180

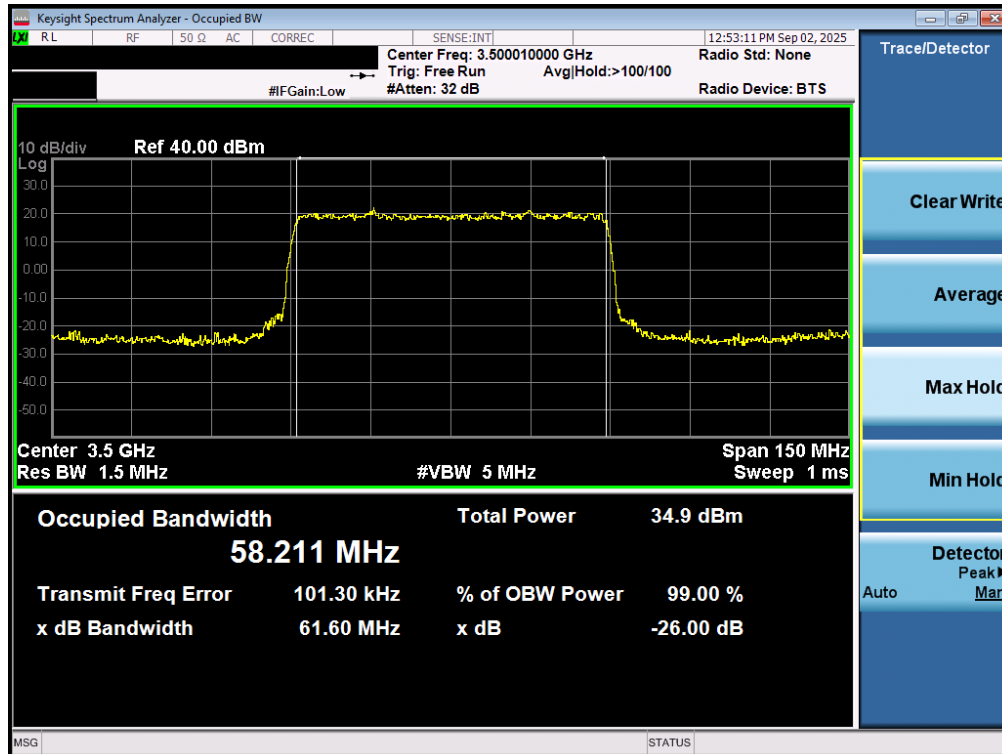


Plot 7-11. Occupied Bandwidth Plot (NR Band n77 - 70MHz QPSK - Full RB - Ant1 - DoD Band - Main)

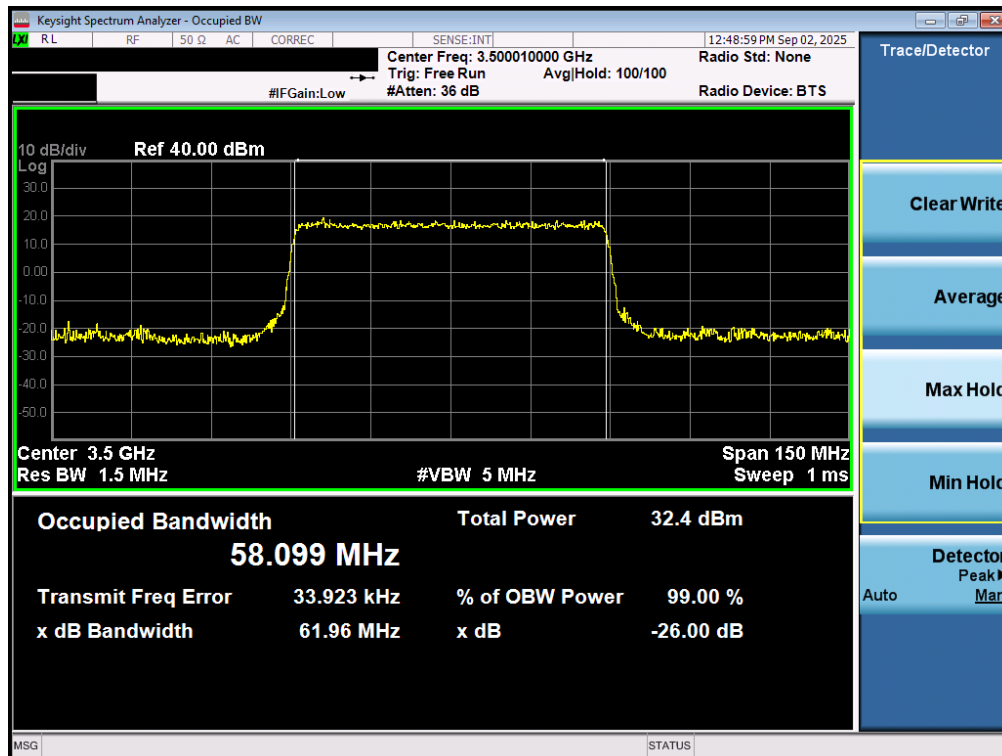


Plot 7-12. Occupied Bandwidth Plot (NR Band n77 - 70MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 34 of 180

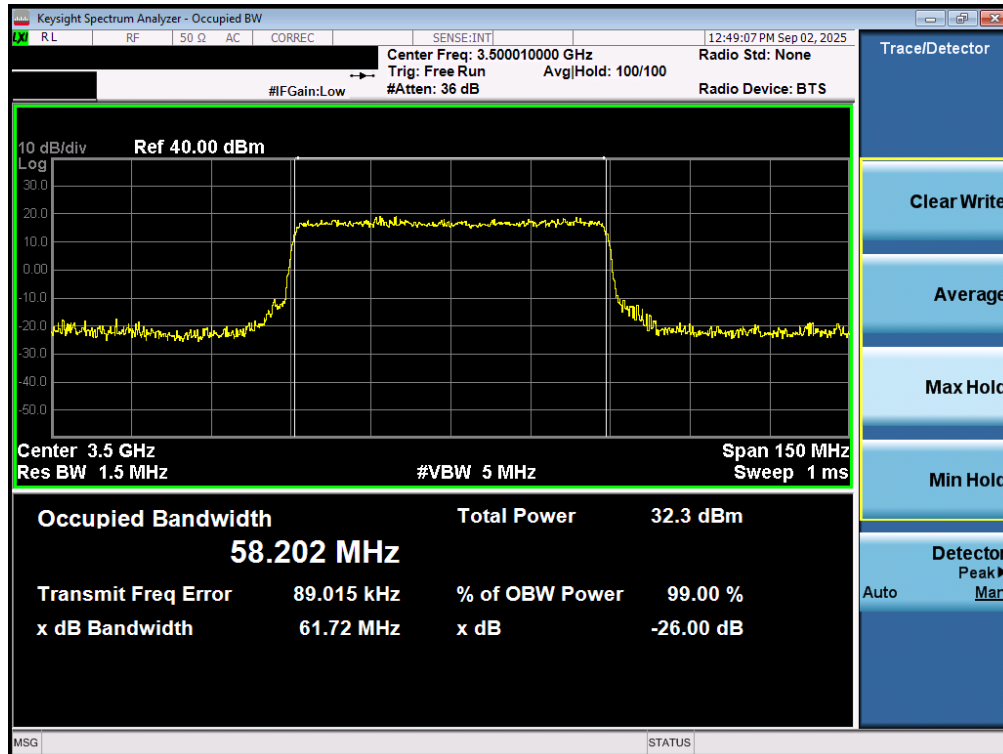


Plot 7-13. Occupied Bandwidth Plot (NR Band n77 - 60MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

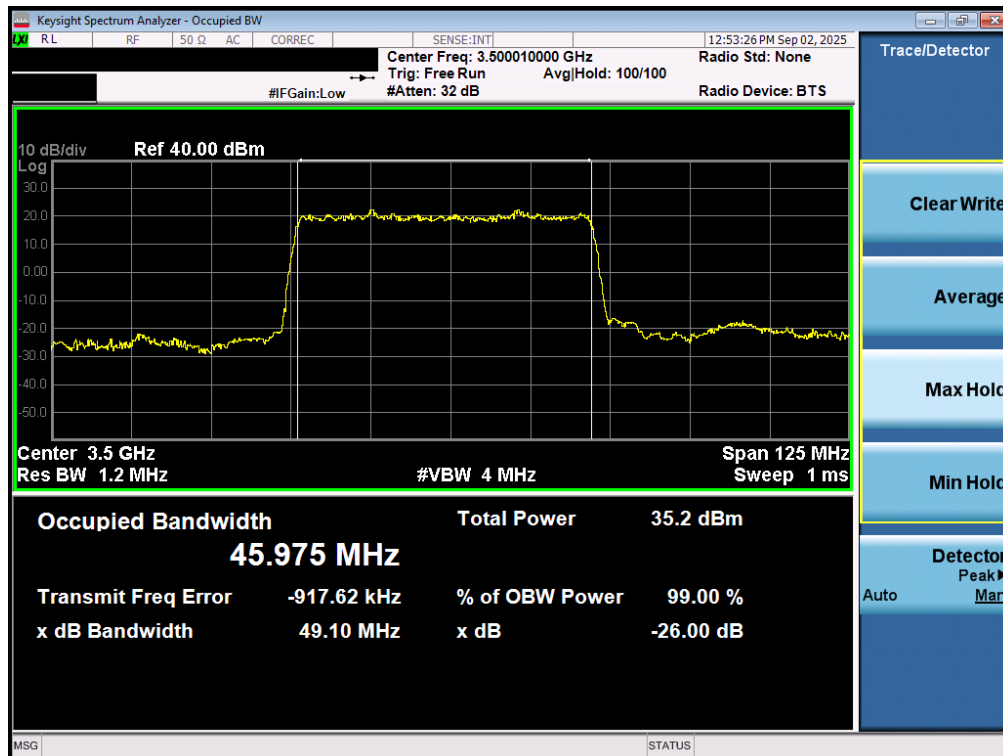


Plot 7-14. Occupied Bandwidth Plot (NR Band n77 - 60MHz QPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 35 of 180

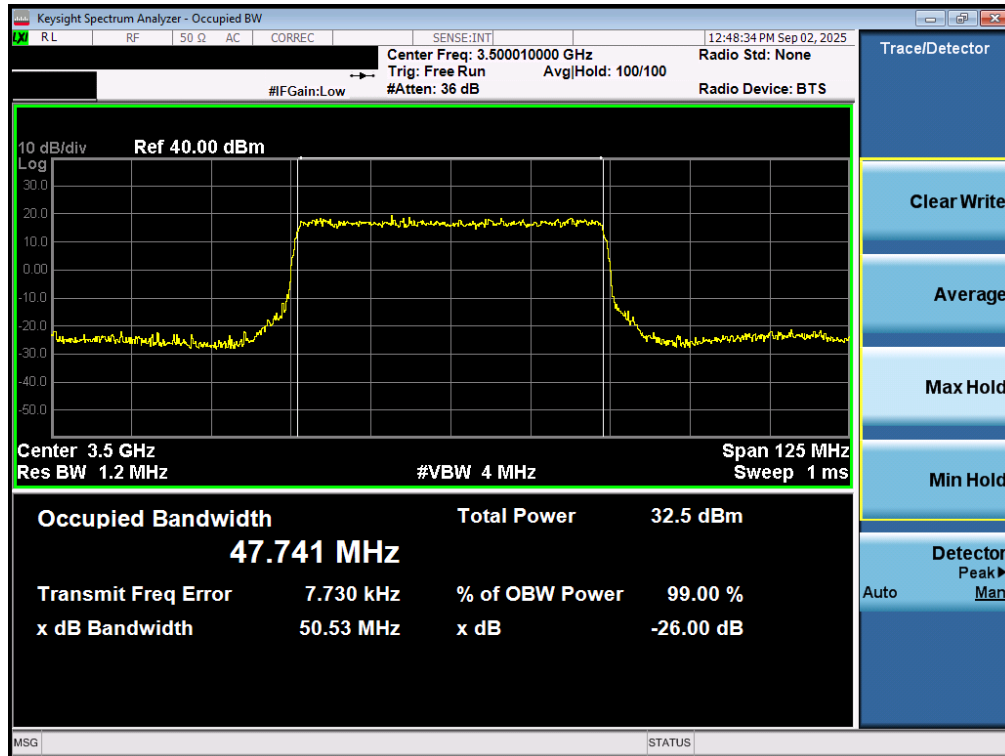


Plot 7-15. Occupied Bandwidth Plot (NR Band n77 - 60MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

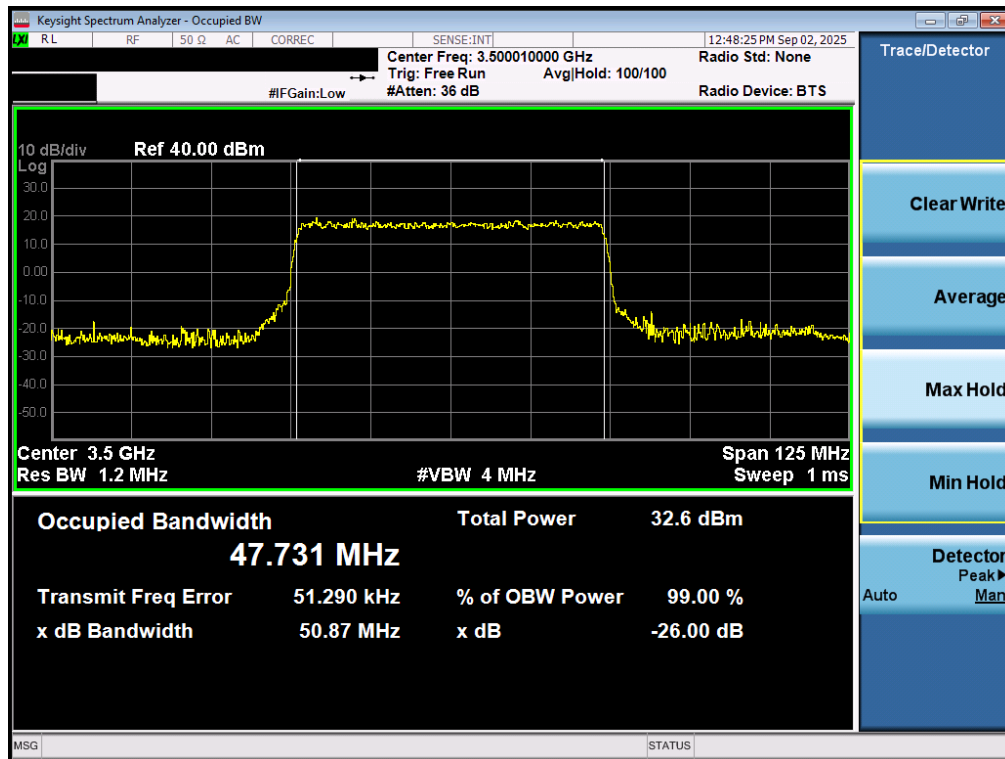


Plot 7-16. Occupied Bandwidth Plot (NR Band n77 - 50MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 36 of 180

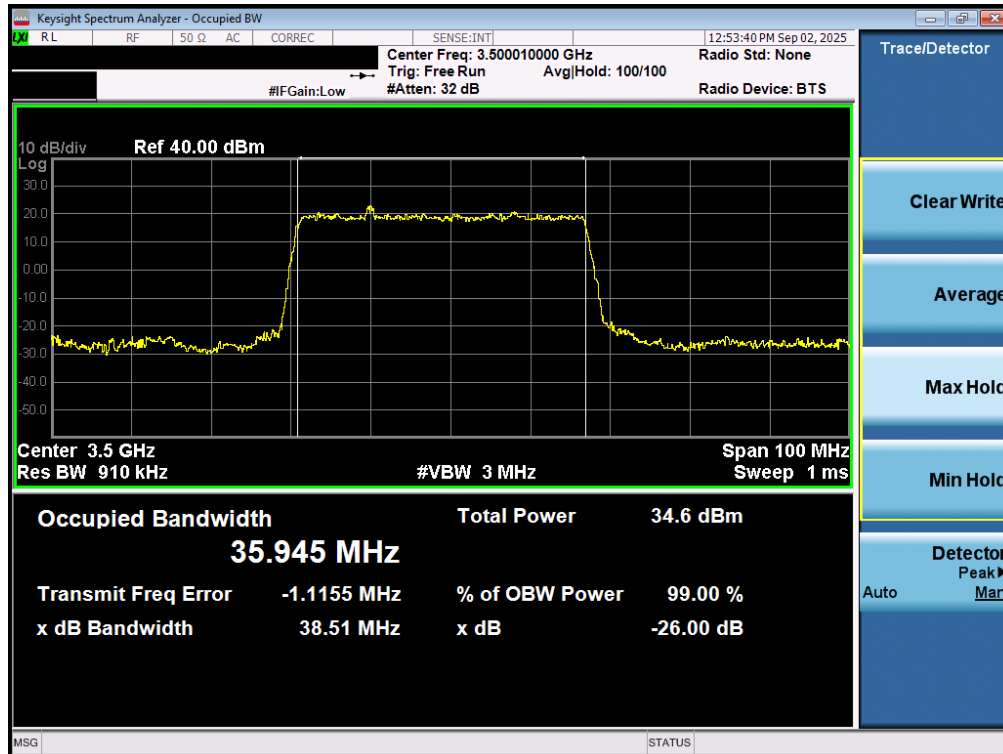


Plot 7-17. Occupied Bandwidth Plot (NR Band n77 - 50MHz QPSK - Full RB - Ant1 - DoD Band - Main)

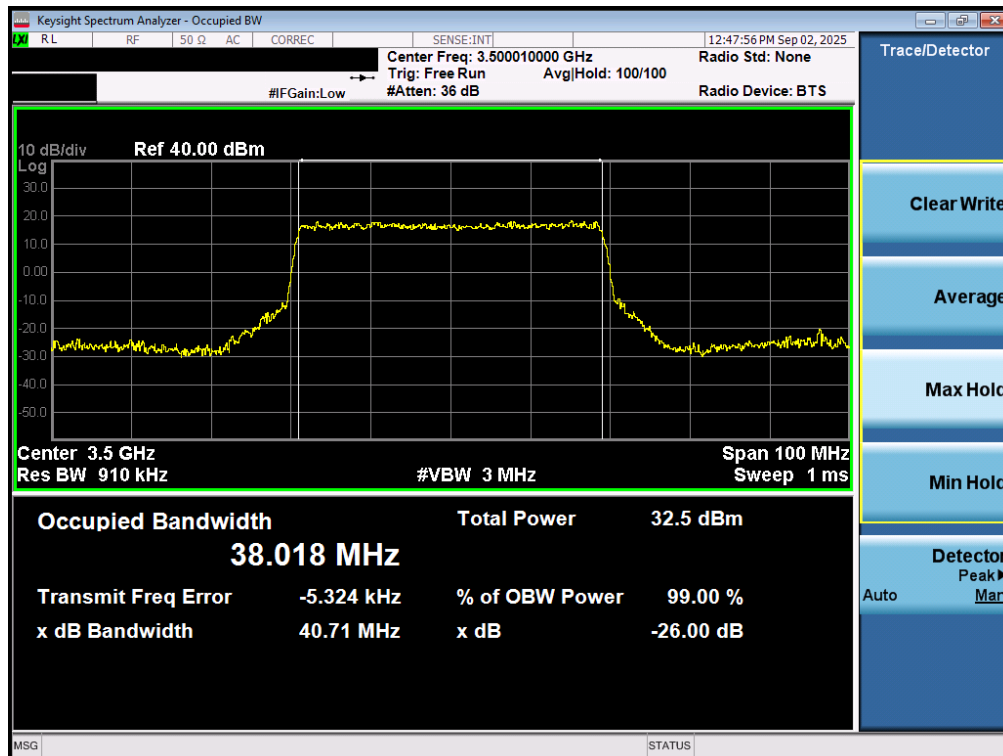


Plot 7-18. Occupied Bandwidth Plot (NR Band n77 - 50MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 37 of 180

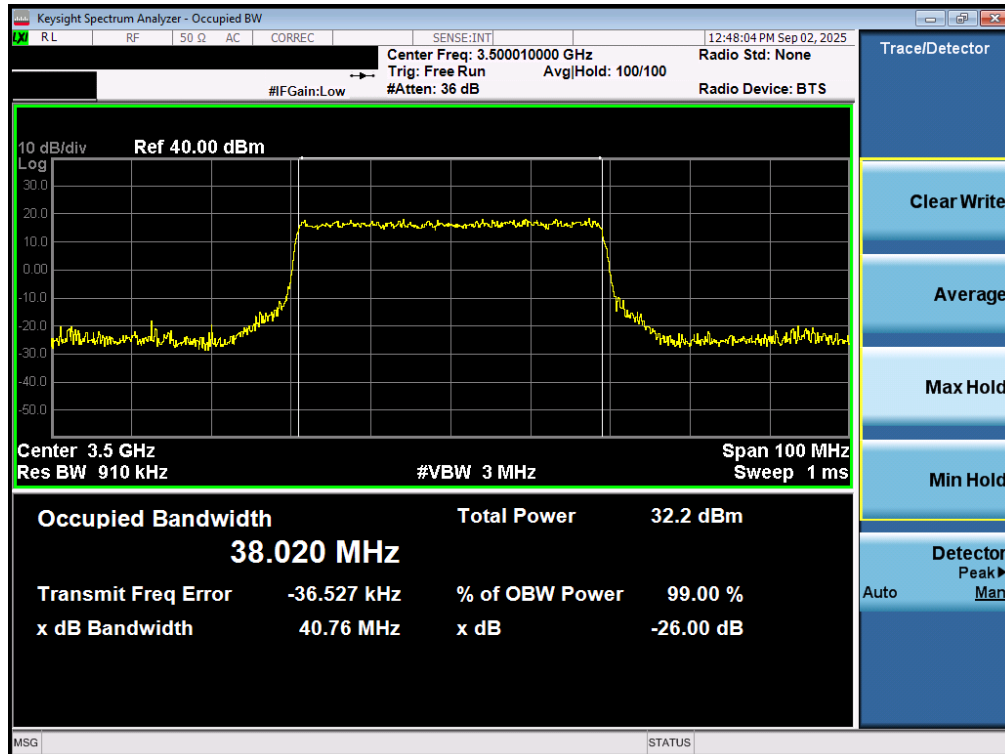


Plot 7-19. Occupied Bandwidth Plot (NR Band n77 - 40MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

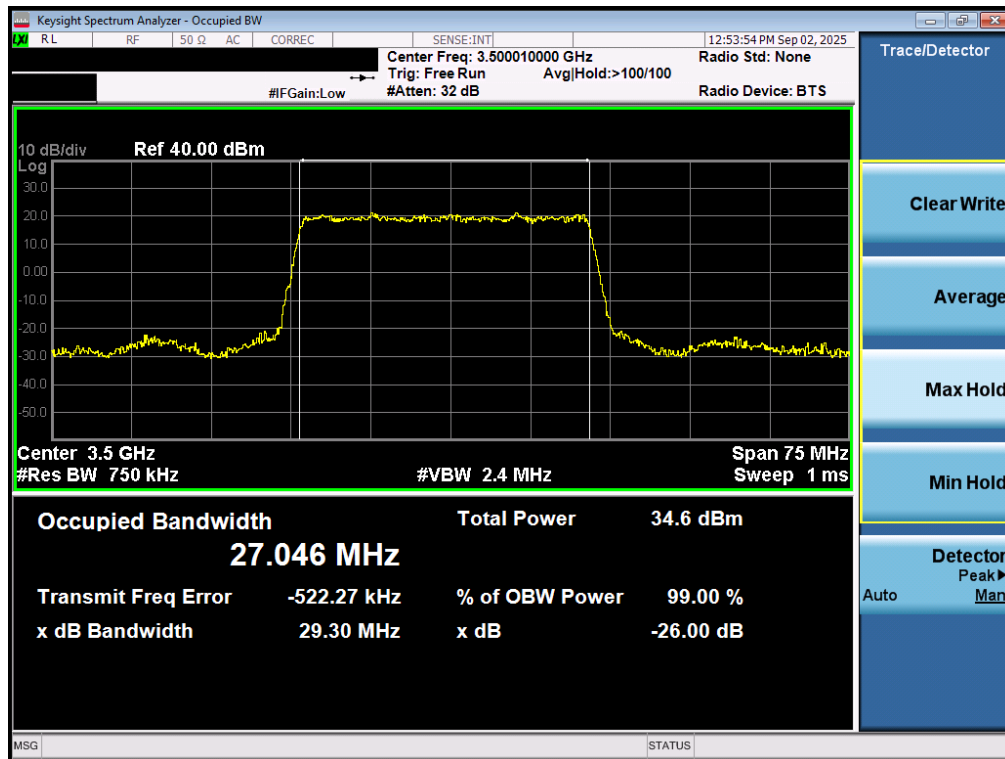


Plot 7-20. Occupied Bandwidth Plot (NR Band n77 - 40MHz QPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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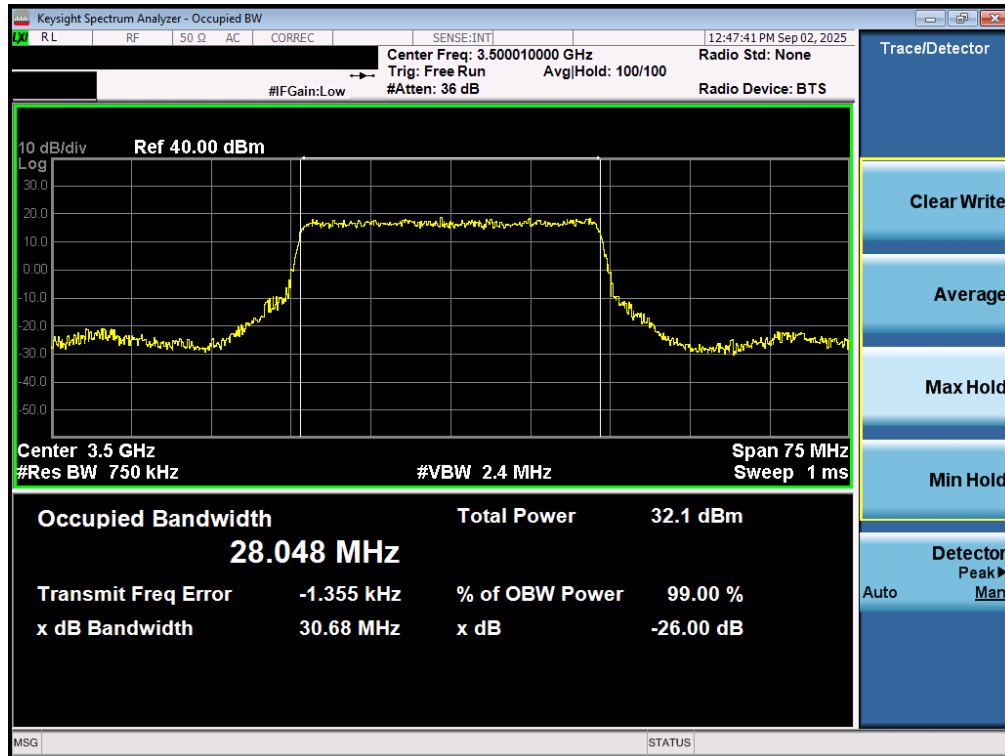


Plot 7-21. Occupied Bandwidth Plot (NR Band n77 - 40MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

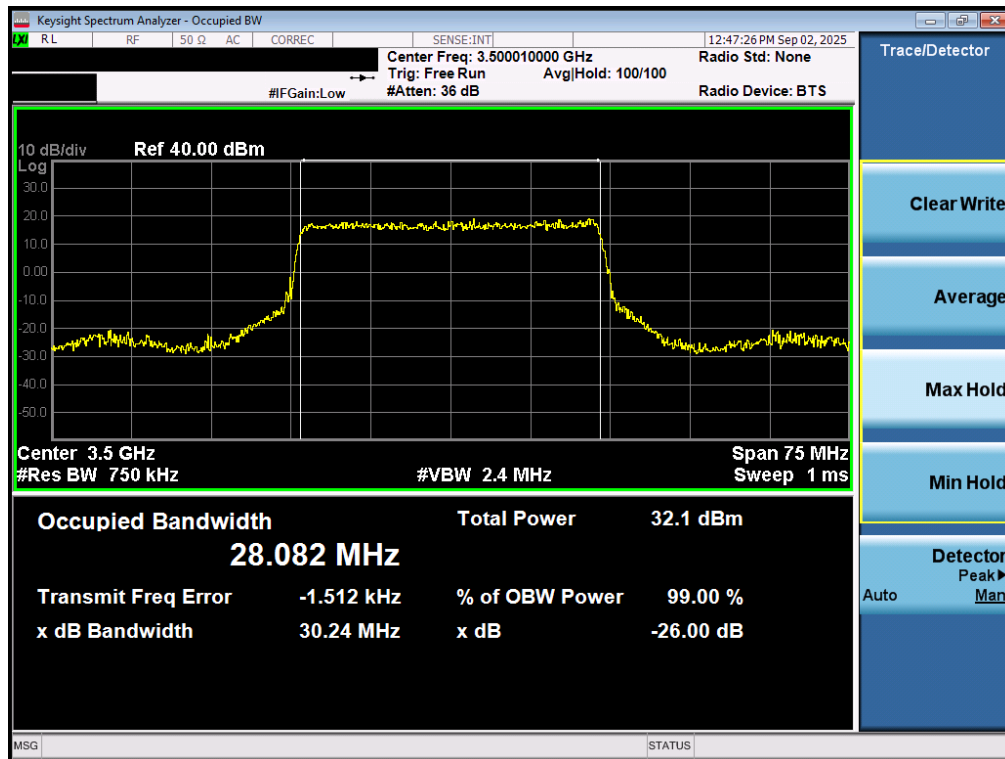


Plot 7-22. Occupied Bandwidth Plot (NR Band n77 - 30MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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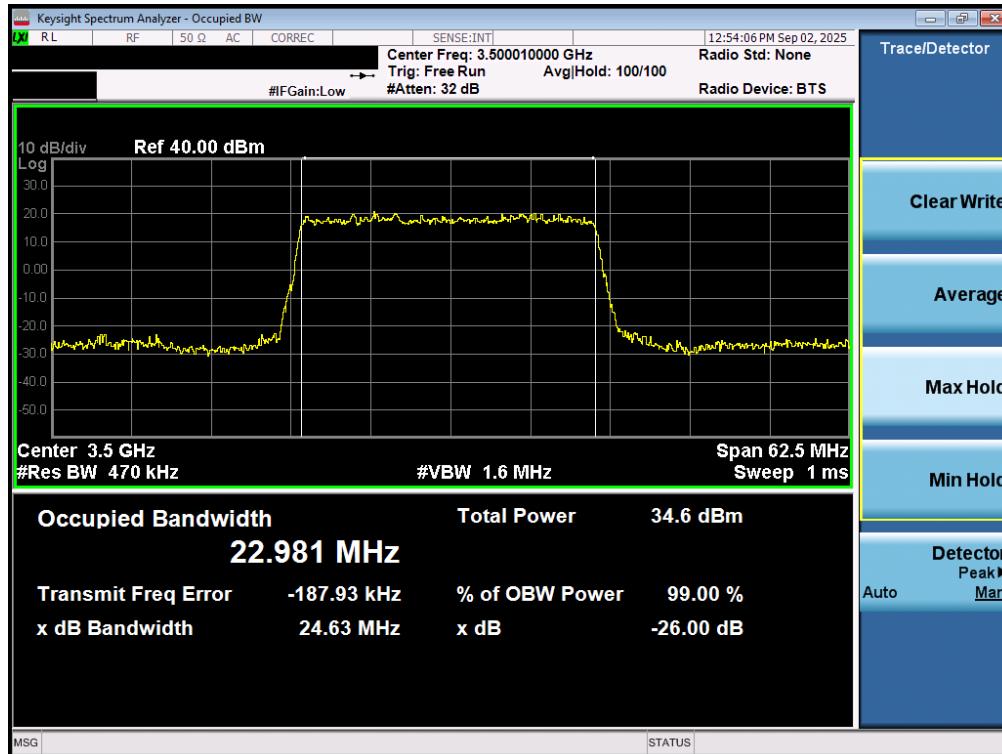


Plot 7-23. Occupied Bandwidth Plot (NR Band n77 - 30MHz QPSK - Full RB - Ant1 - DoD Band - Main)

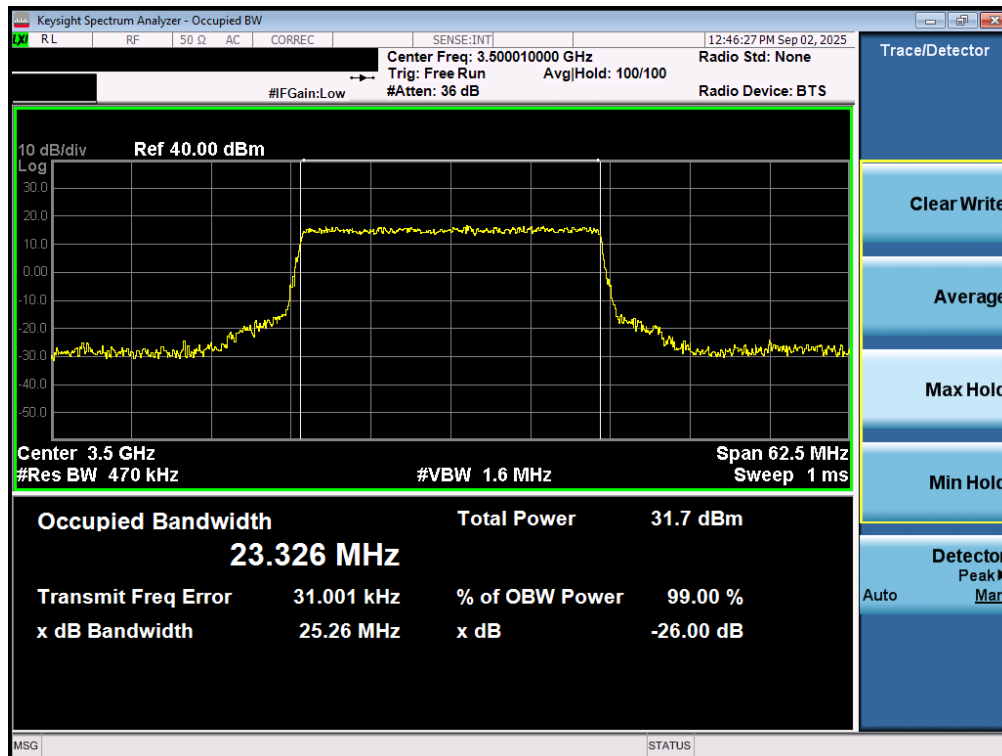


Plot 7-24. Occupied Bandwidth Plot (NR Band n77 - 30MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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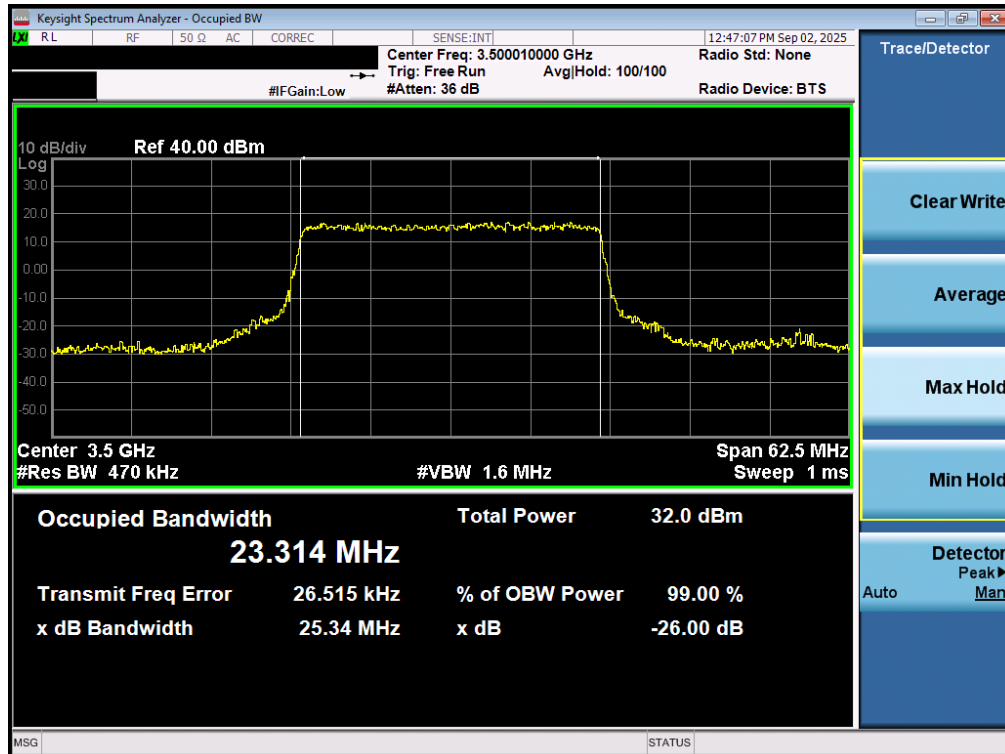


Plot 7-25. Occupied Bandwidth Plot (NR Band n77 - 20MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

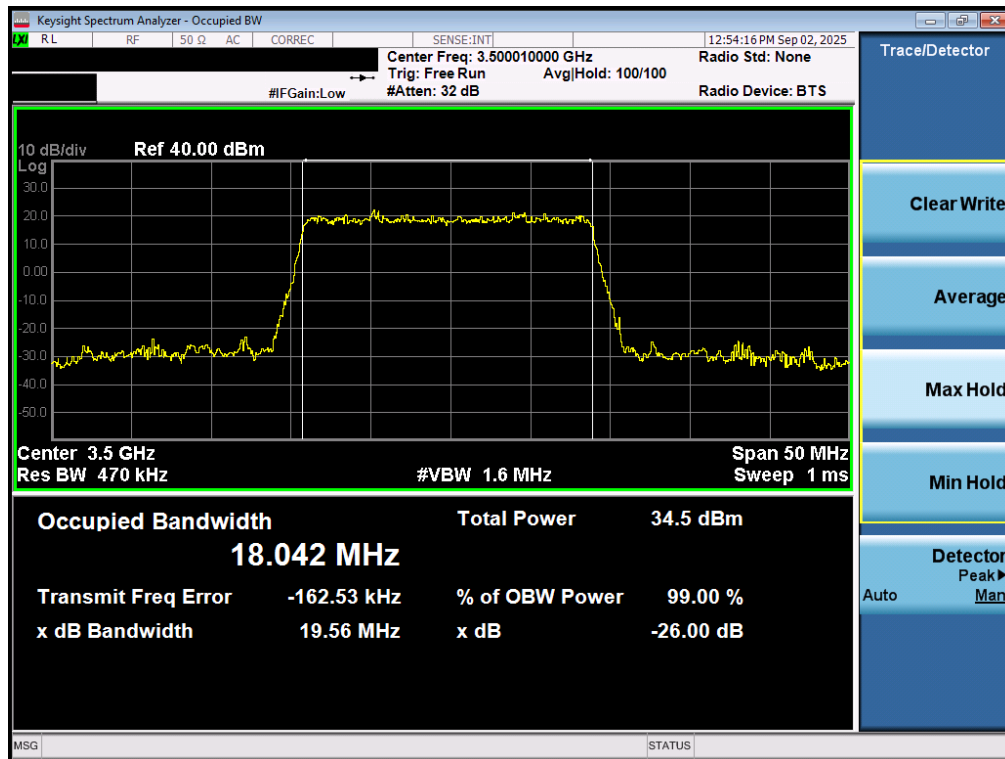


Plot 7-26. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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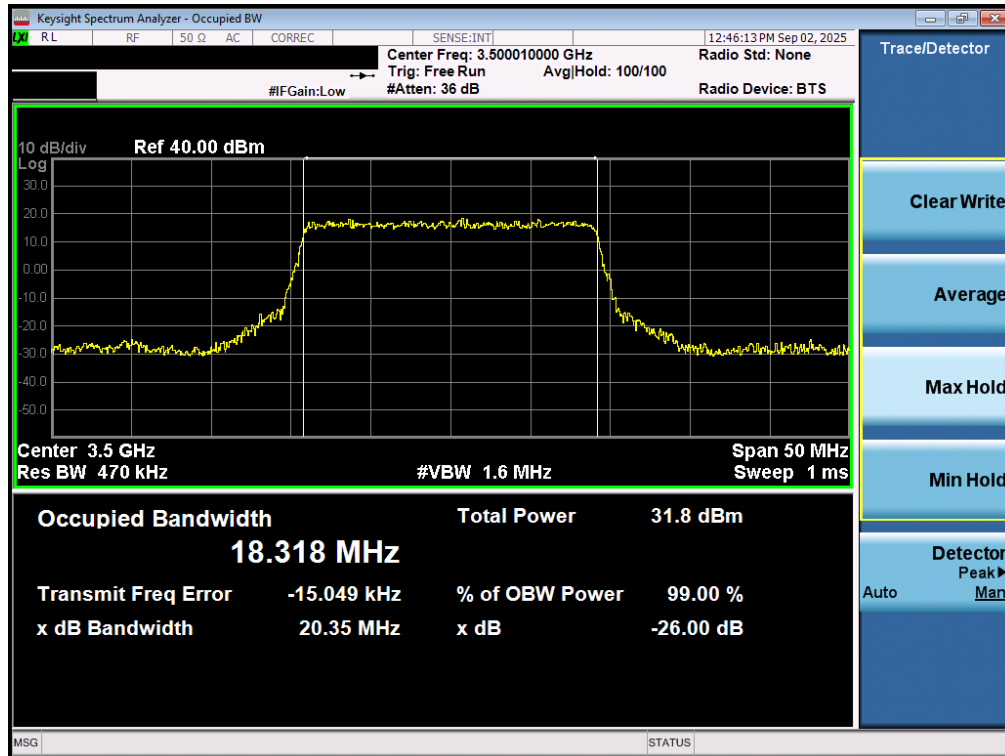


Plot 7-27. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

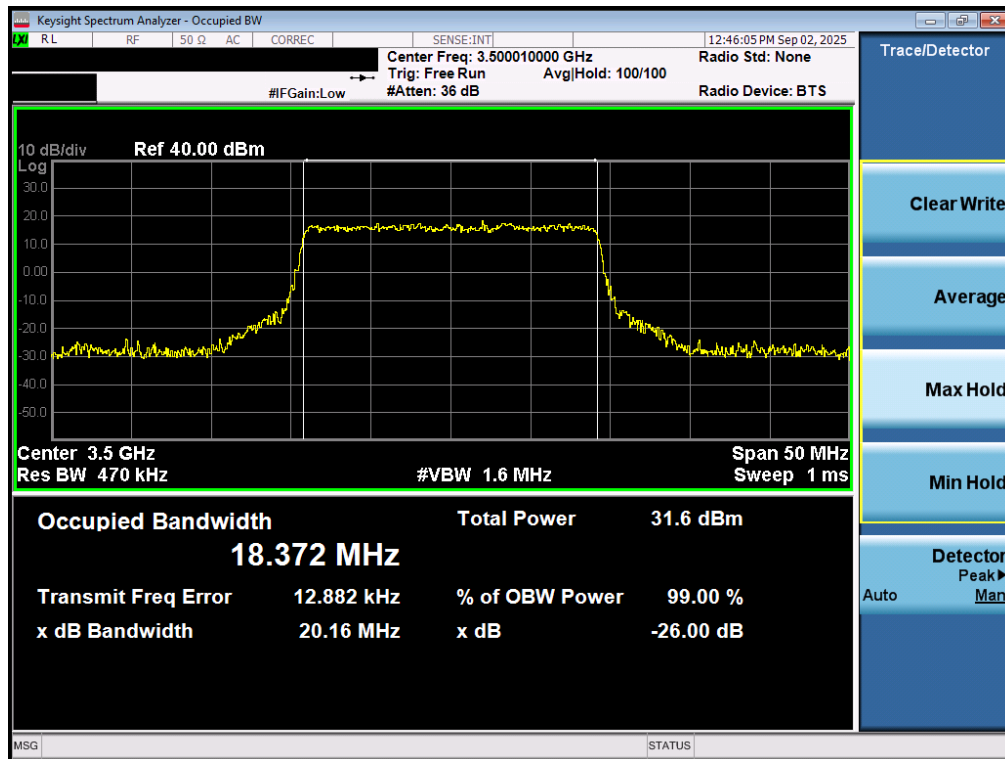


Plot 7-28. Occupied Bandwidth Plot (NR Band n77 - 20MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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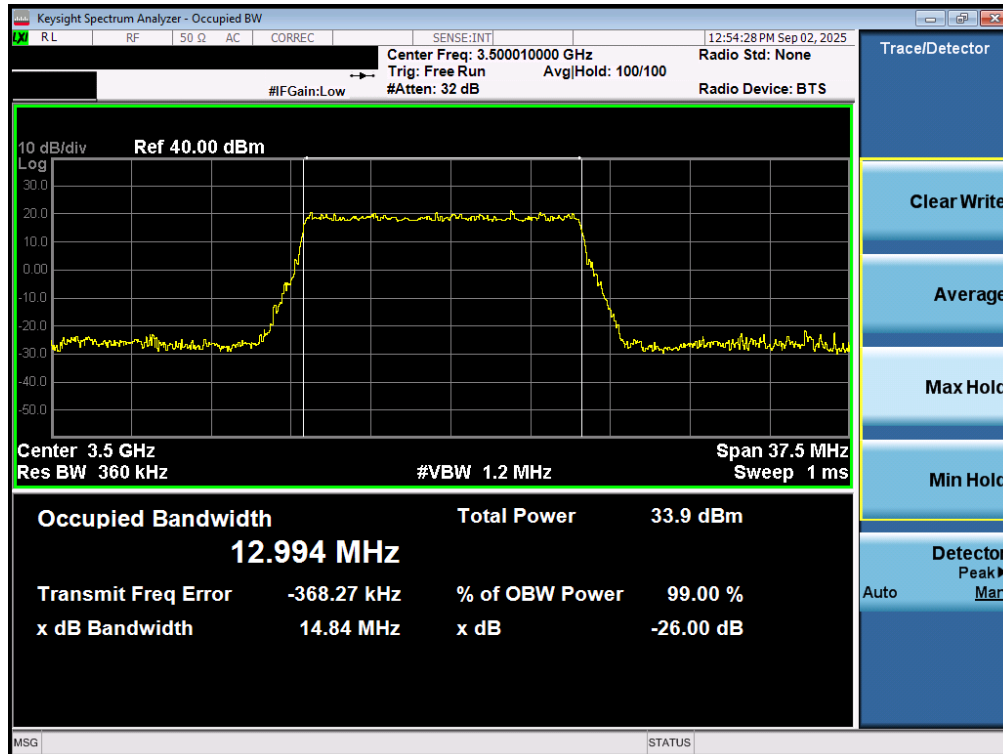


Plot 7-29. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant1 - DoD Band - Main)

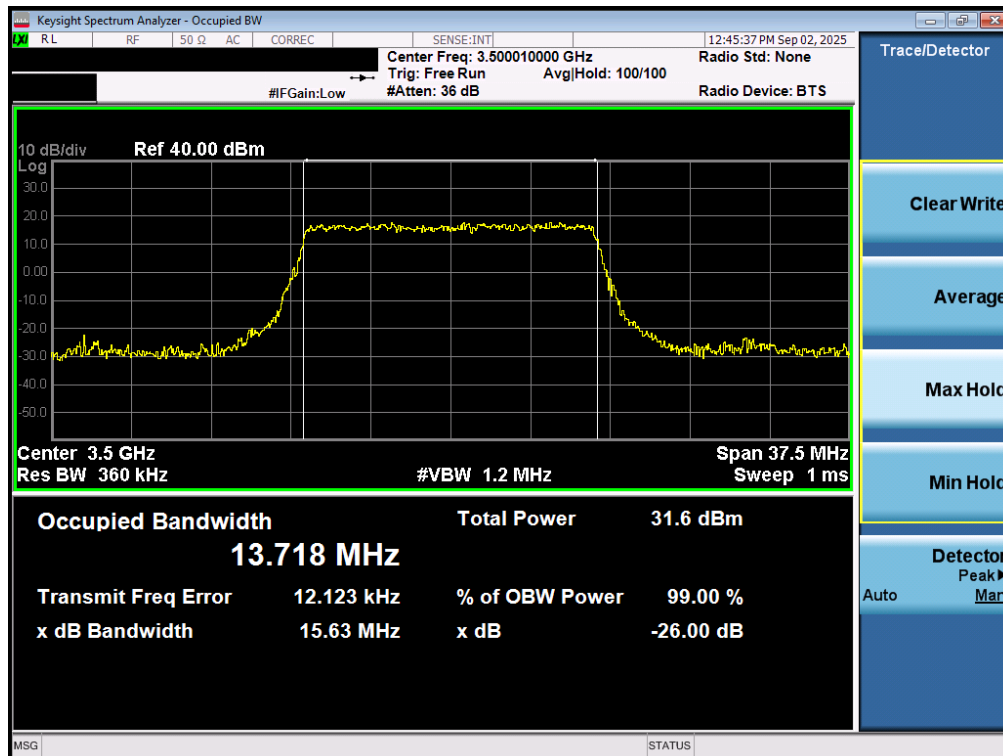


Plot 7-30. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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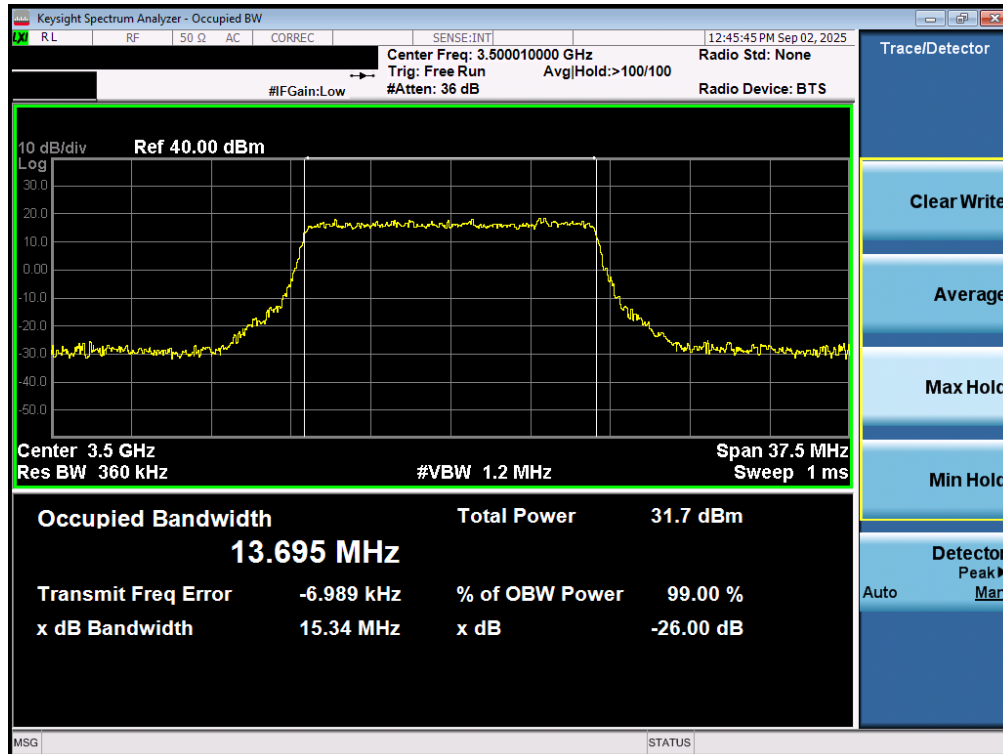


Plot 7-31. Occupied Bandwidth Plot (NR Band n77 - 15MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

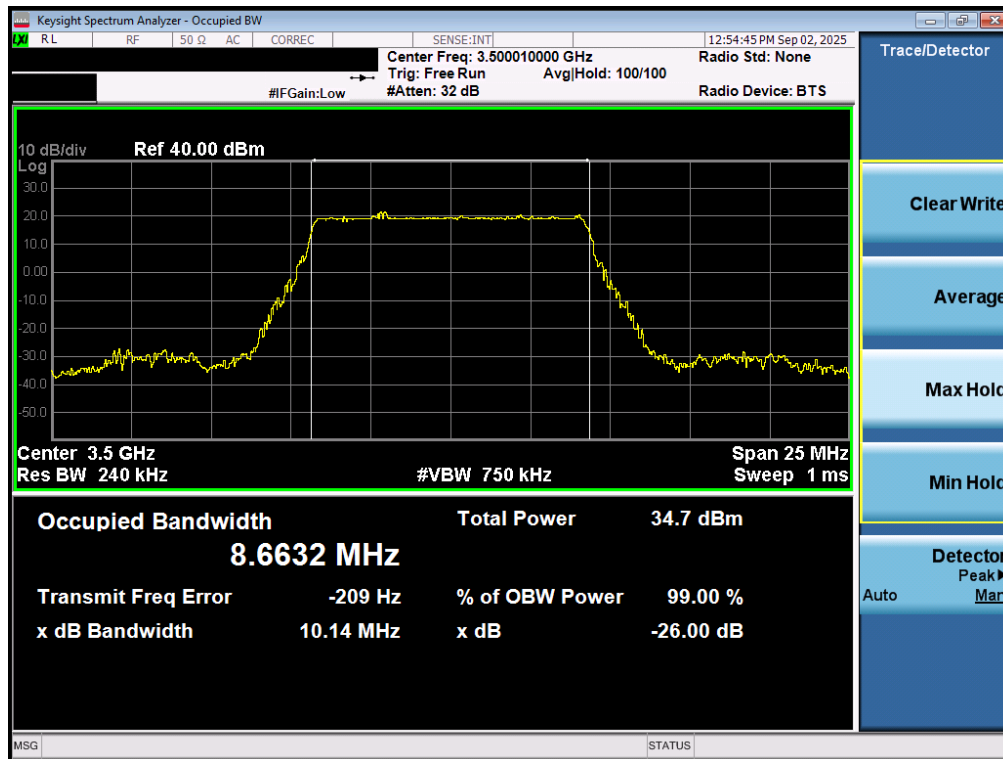


Plot 7-32. Occupied Bandwidth Plot (NR Band n77 - 15MHz QPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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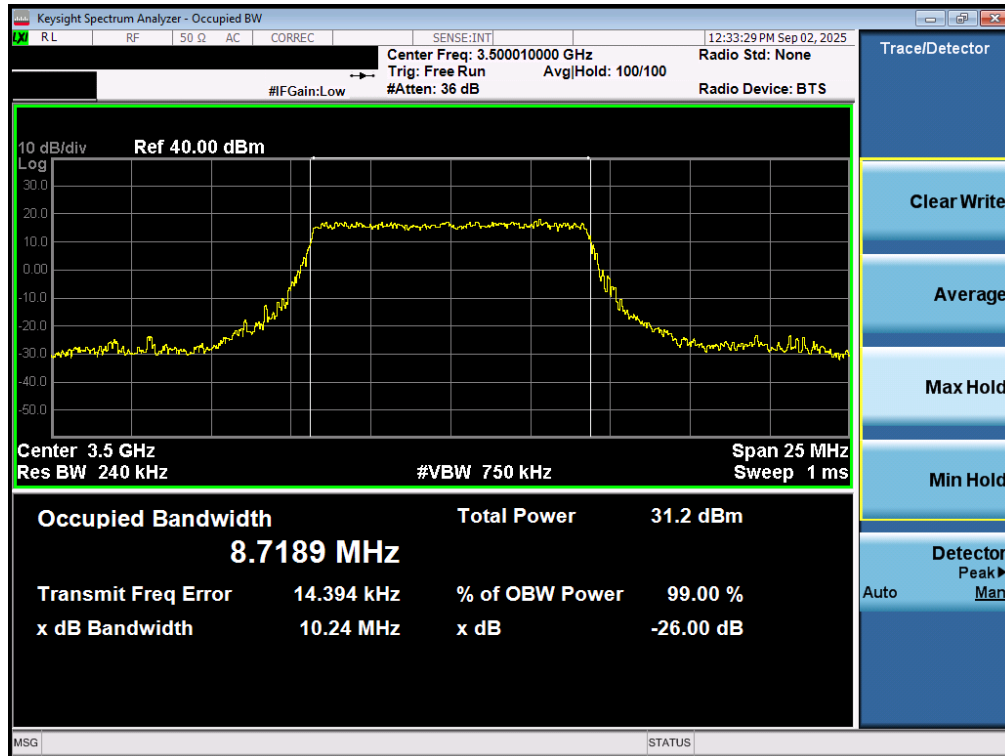


Plot 7-33. Occupied Bandwidth Plot (NR Band n77 - 15MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

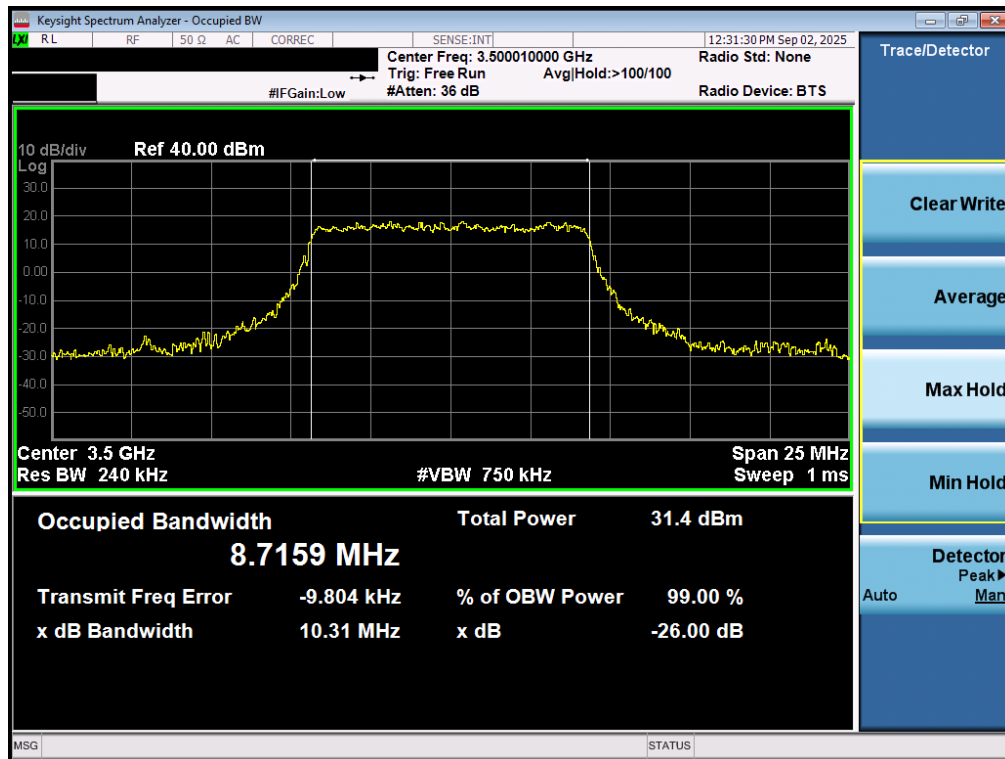


Plot 7-34. Occupied Bandwidth Plot (NR Band n77 - 10MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-35. Occupied Bandwidth Plot (NR Band n77 - 10MHz QPSK - Full RB - Ant1 - DoD Band - Main)



Plot 7-36. Occupied Bandwidth Plot (NR Band n77 - 10MHz 16-QAM - Full RB - Ant1 - DoD Band - Main)

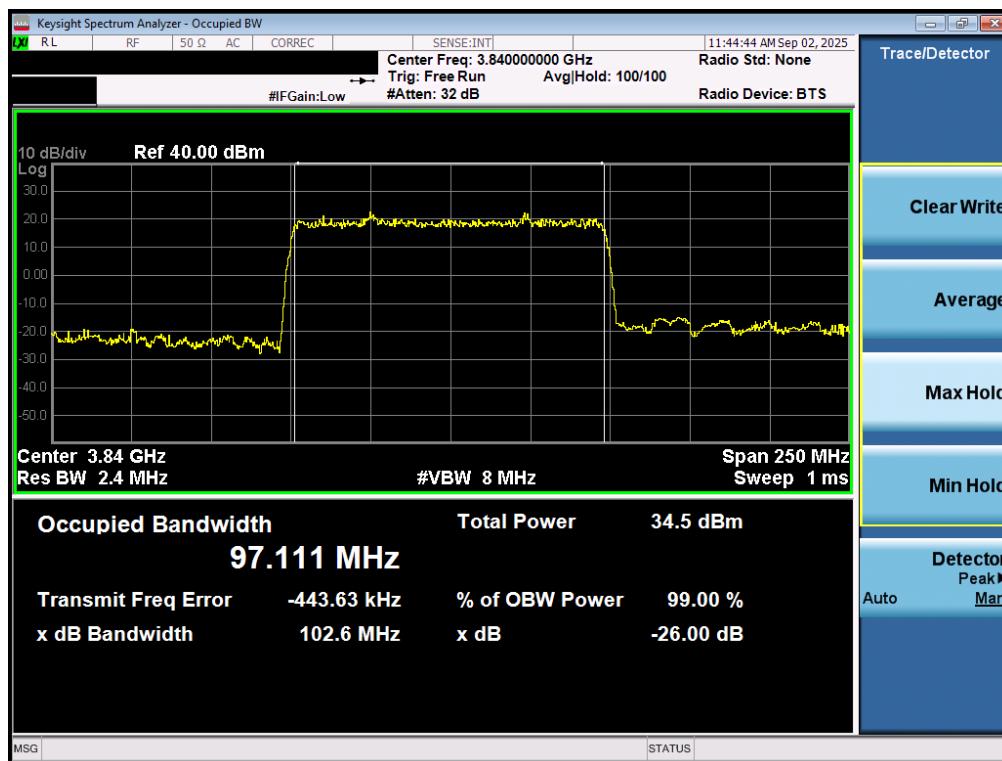
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2 C-Band	100MHz	$\pi/2$ BPSK	97.111
		QPSK	98.029
		16QAM	97.804
	90MHz	$\pi/2$ BPSK	87.151
		QPSK	87.890
		16QAM	87.756
	80MHz	$\pi/2$ BPSK	77.556
		QPSK	77.804
		16QAM	77.615
	70MHz	$\pi/2$ BPSK	64.547
		QPSK	67.772
		16QAM	67.723
	60MHz	$\pi/2$ BPSK	58.125
		QPSK	58.098
		16QAM	58.126
	50MHz	$\pi/2$ BPSK	45.949
		QPSK	47.812
		16QAM	47.848
	40MHz	$\pi/2$ BPSK	35.987
		QPSK	38.067
		16QAM	37.929
	30MHz	$\pi/2$ BPSK	27.031
		QPSK	27.973
		16QAM	28.031
	25MHz	$\pi/2$ BPSK	22.981
		QPSK	23.325
		16QAM	23.331
	20MHz	$\pi/2$ BPSK	18.030
		QPSK	18.351
		16QAM	18.366
	15MHz	$\pi/2$ BPSK	12.971
		QPSK	13.700
		16QAM	13.690
	10MHz	$\pi/2$ BPSK	8.594
		QPSK	8.692
		16QAM	8.661

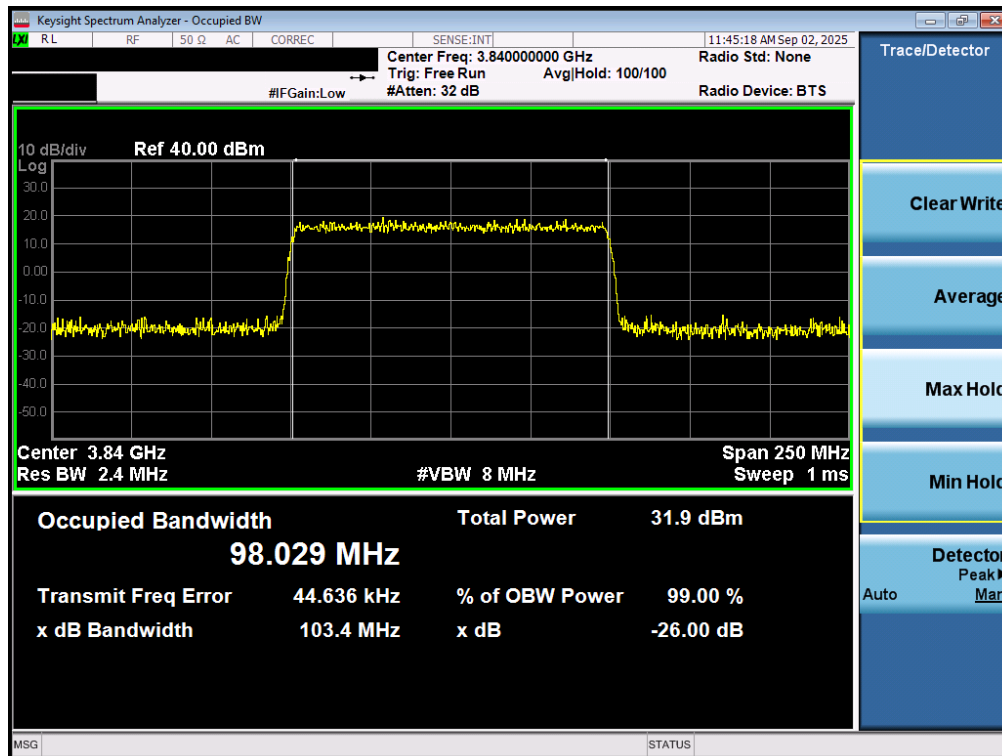
Table 7-15. Occupied Bandwidth Results - Ant1 – C-Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77PC2 - Ant1 - C-Band - Main

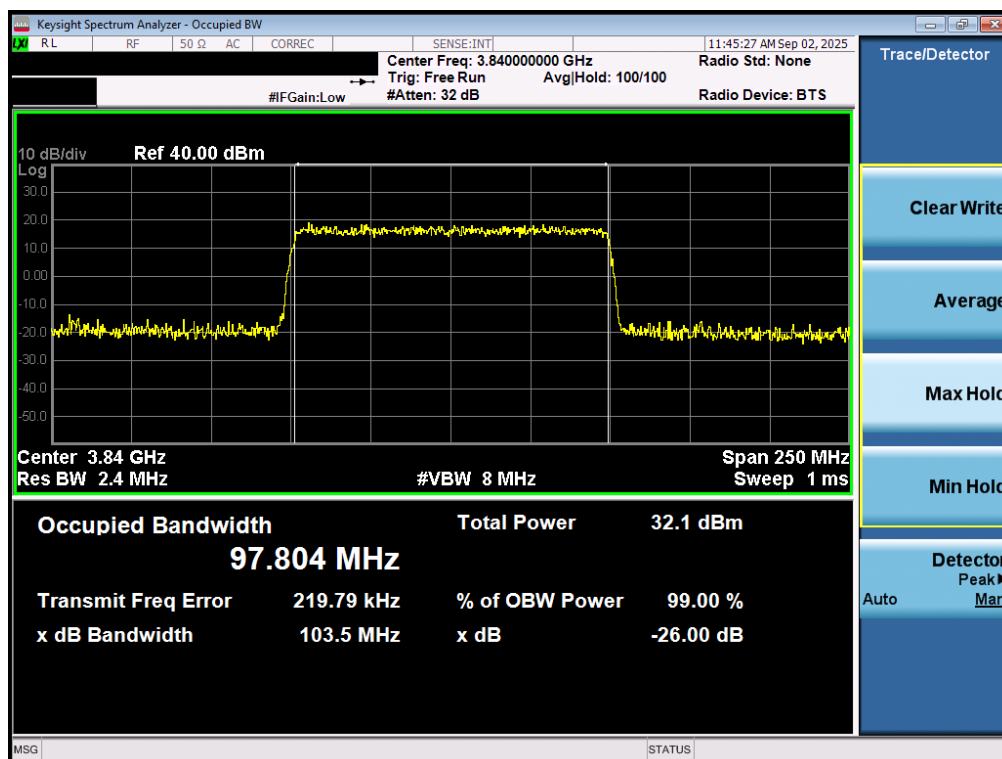


Plot 7-37. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

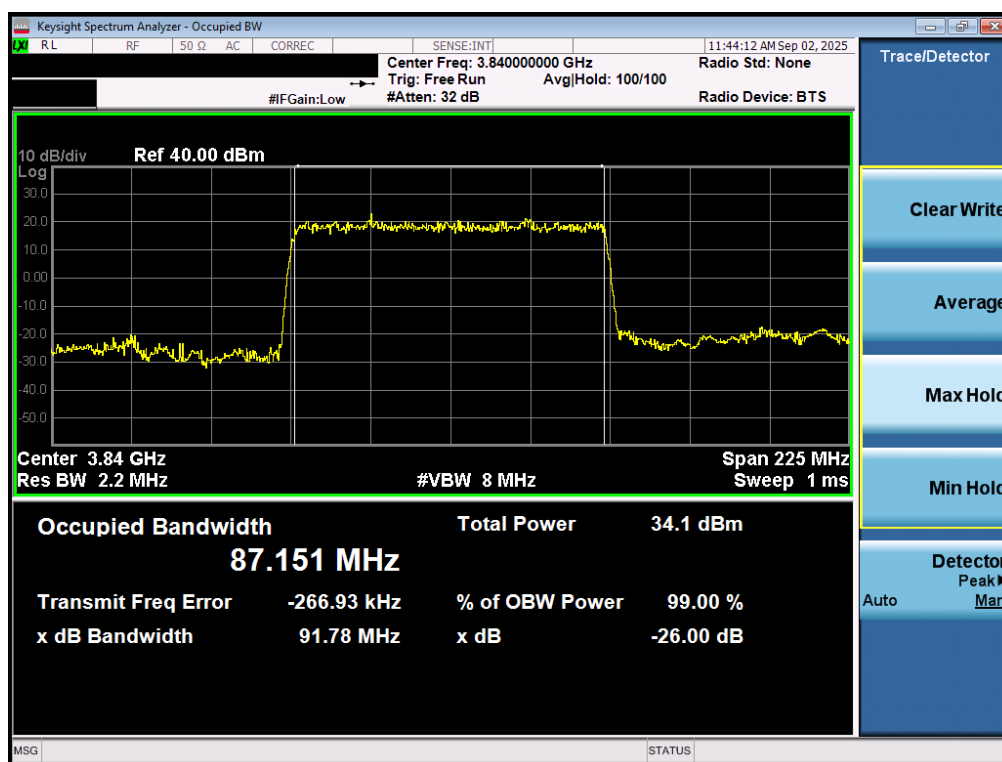


Plot 7-38. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz QPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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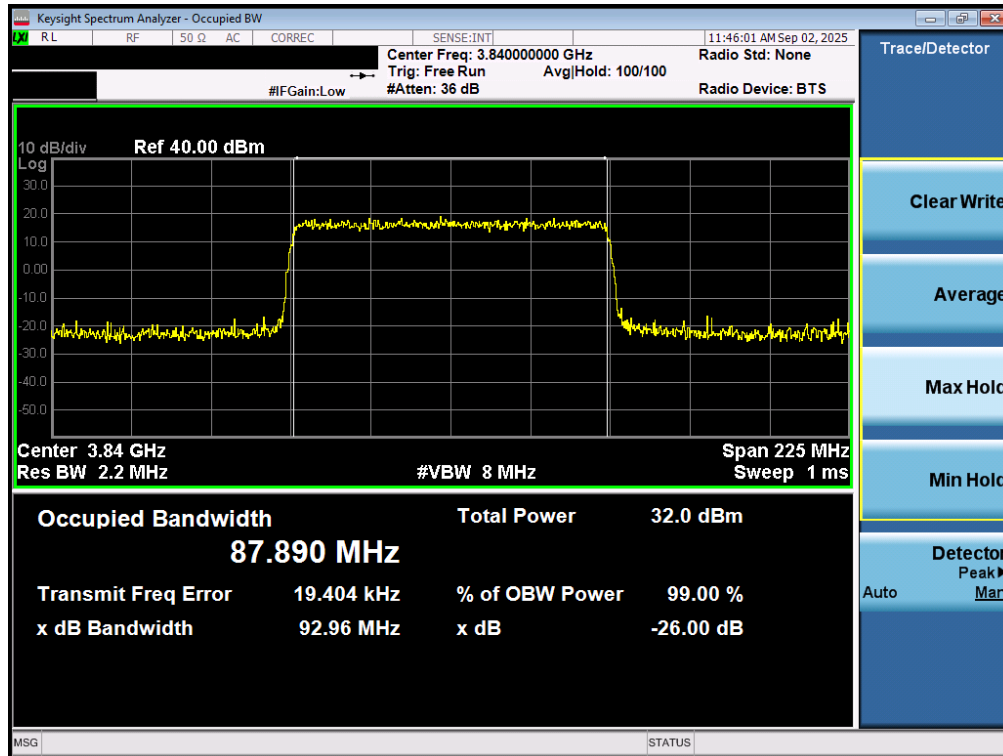


Plot 7-39. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

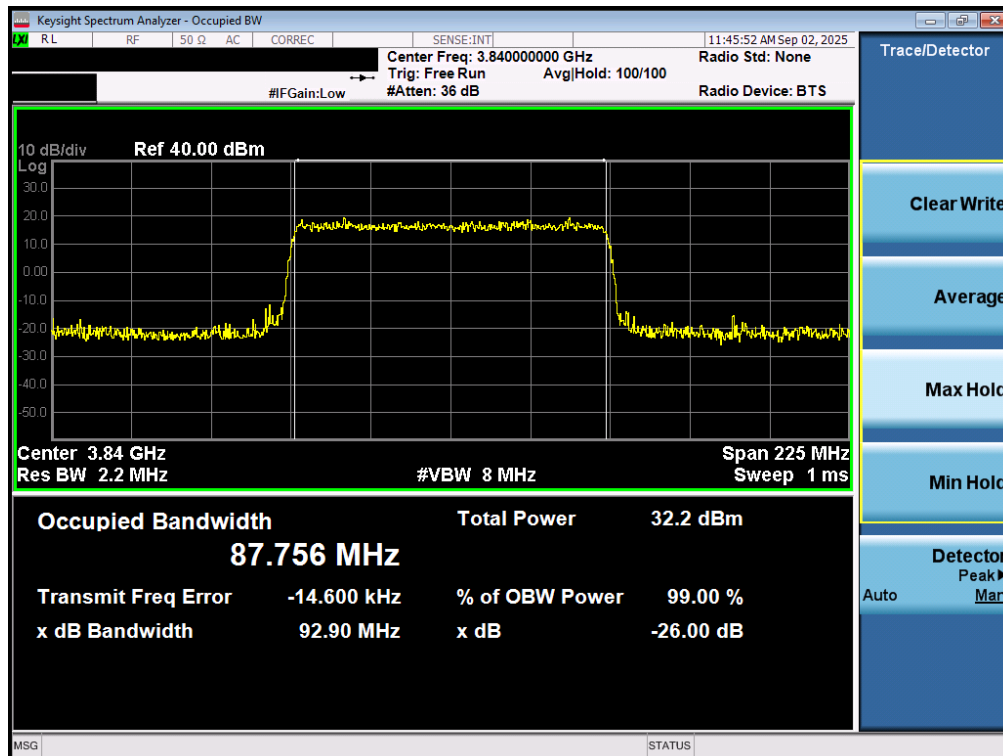


Plot 7-40. Occupied Bandwidth Plot (NR Band n77 - 90MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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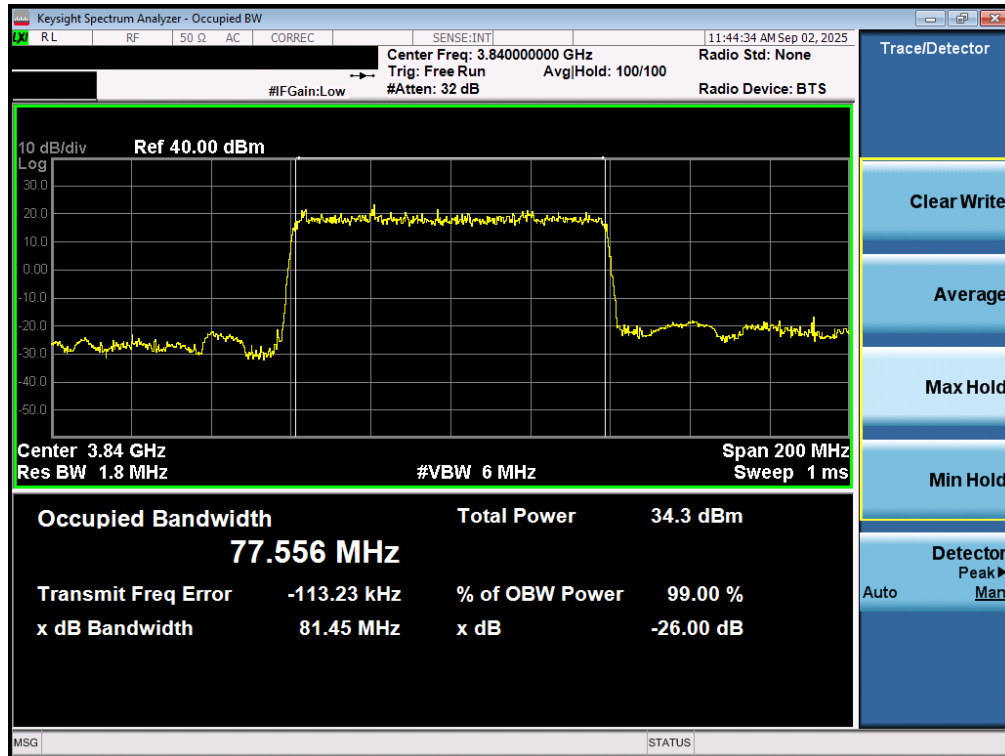


Plot 7-41. Occupied Bandwidth Plot (NR Band n77 - 90MHz QPSK - Full RB - Ant1 - C-Band - Main)

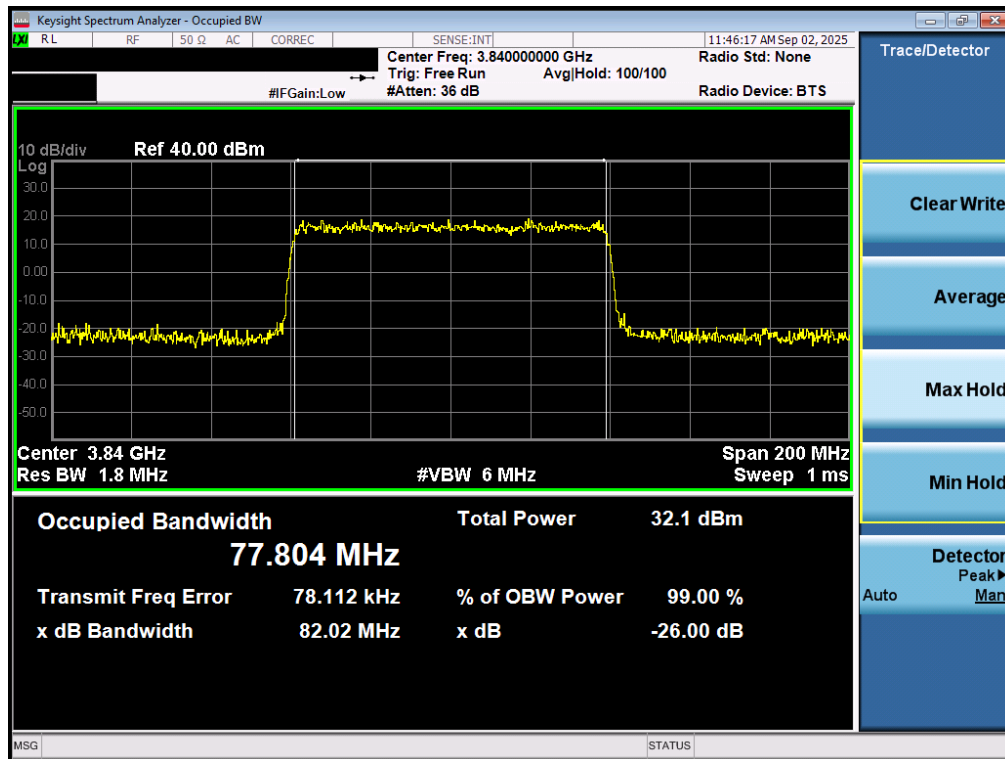


Plot 7-42. Occupied Bandwidth Plot (NR Band n77 - 90MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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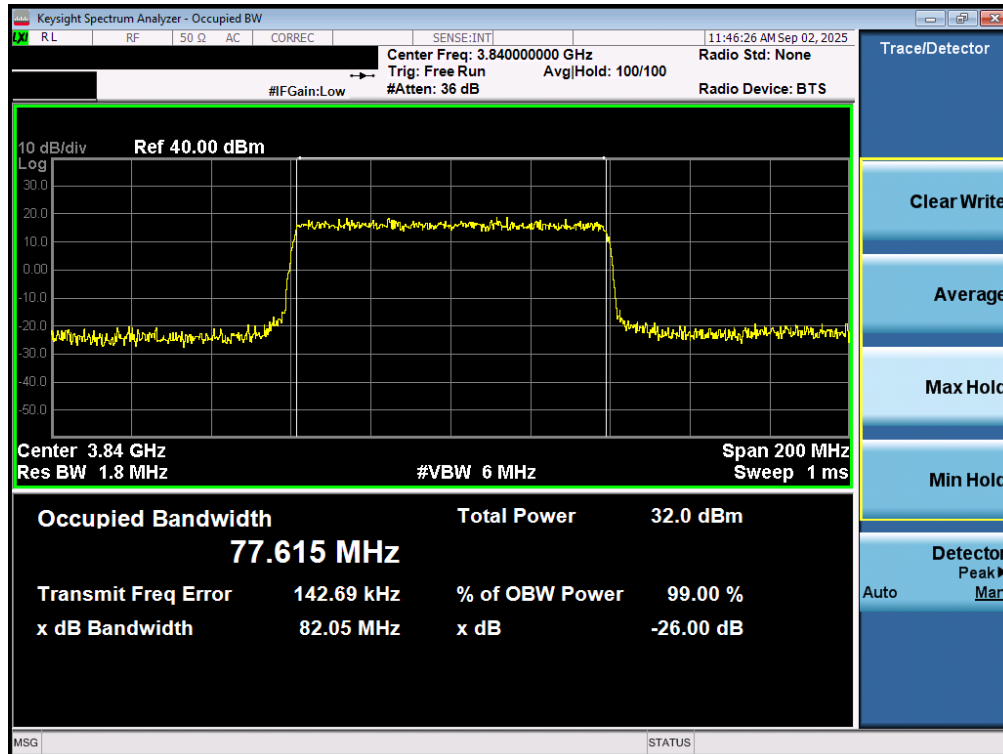


Plot 7-43. Occupied Bandwidth Plot (NR Band n77 - 80MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

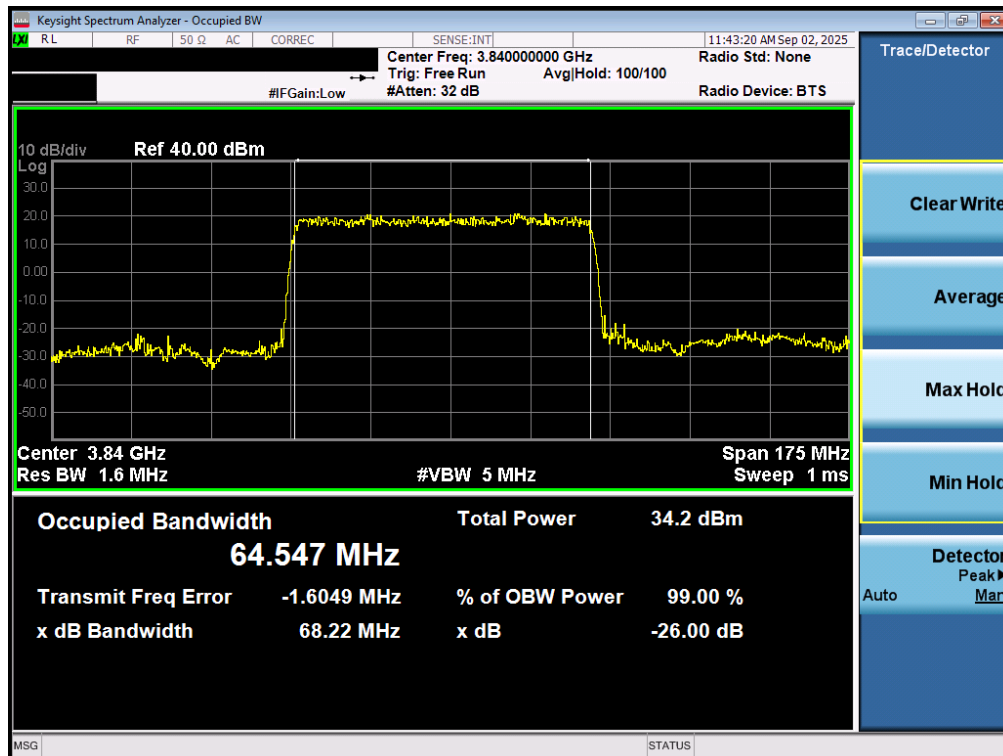


Plot 7-44. Occupied Bandwidth Plot (NR Band n77 - 80MHz QPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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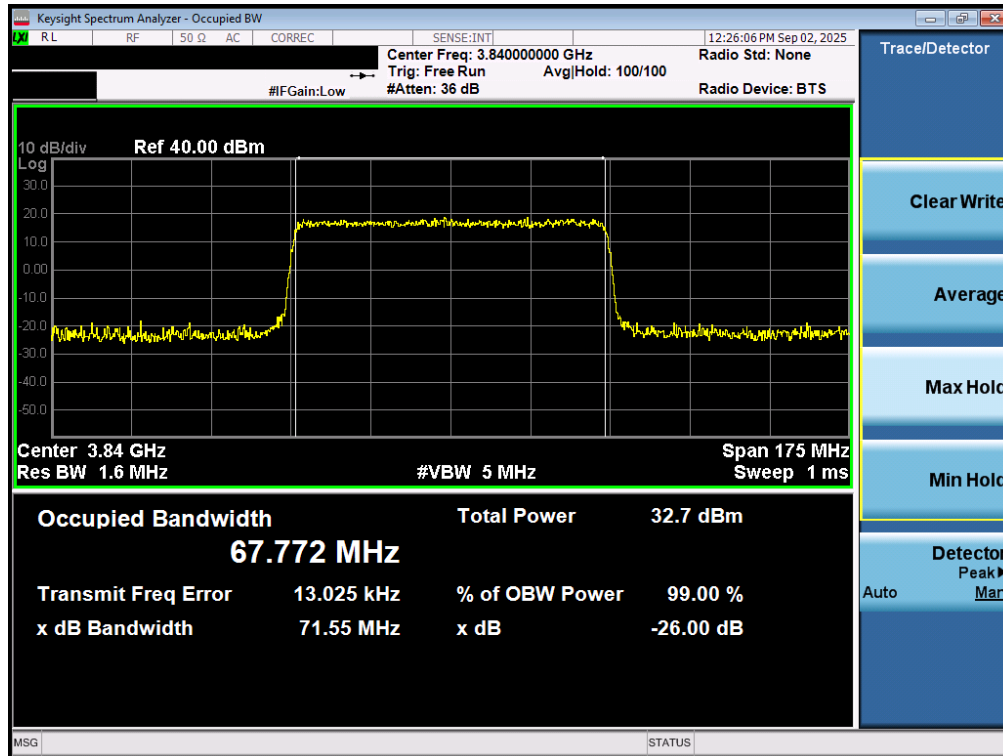


Plot 7-45. Occupied Bandwidth Plot (NR Band n77 - 80MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

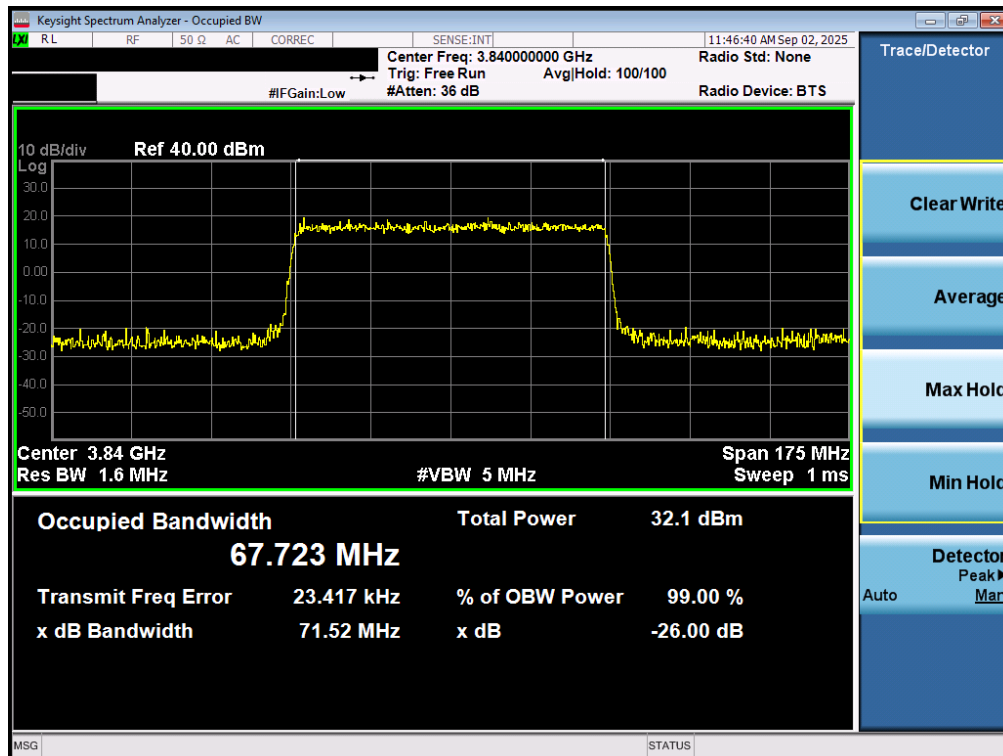


Plot 7-46. Occupied Bandwidth Plot (NR Band n77 - 70MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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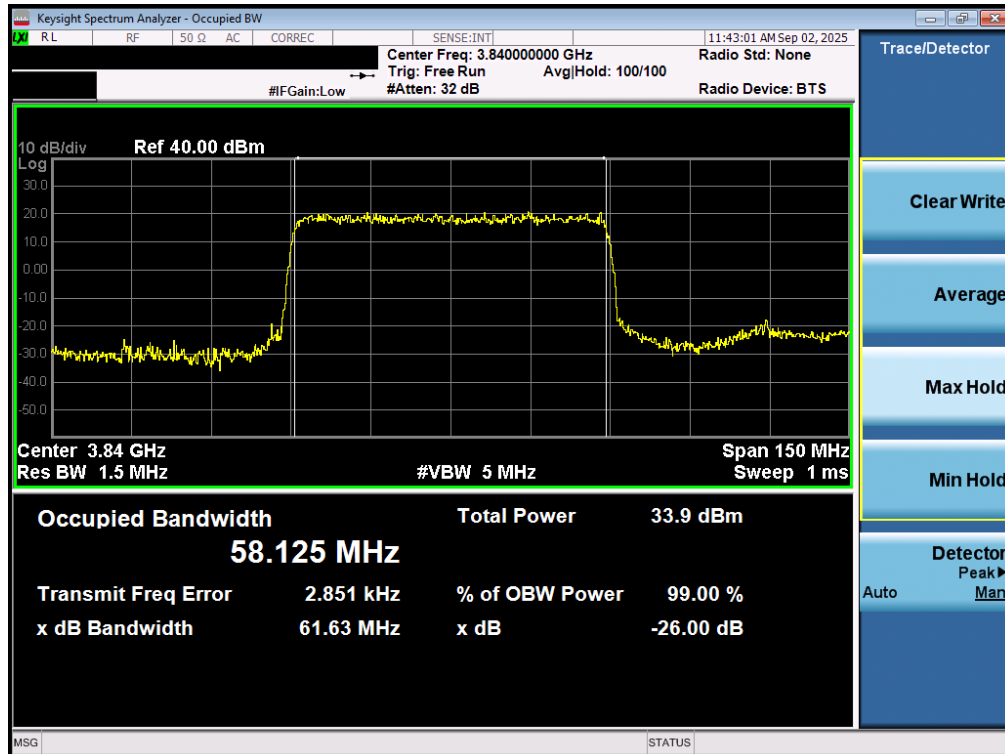


Plot 7-47. Occupied Bandwidth Plot (NR Band n77 - 70MHz QPSK - Full RB - Ant1 - C-Band - Main)

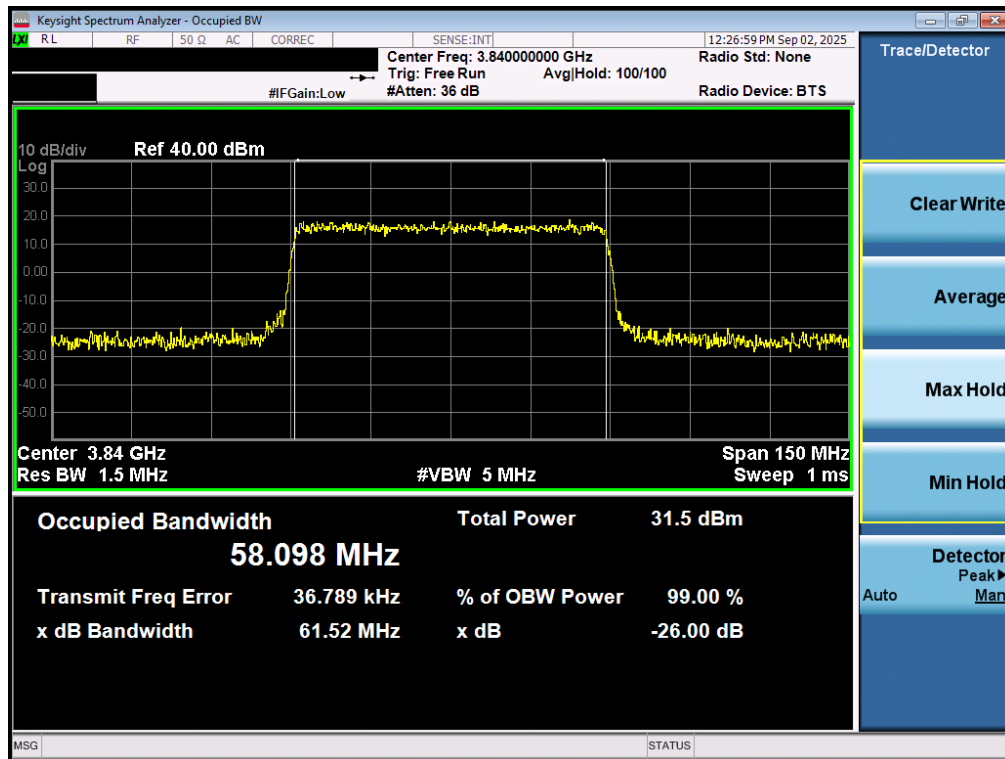


Plot 7-48. Occupied Bandwidth Plot (NR Band n77 - 70MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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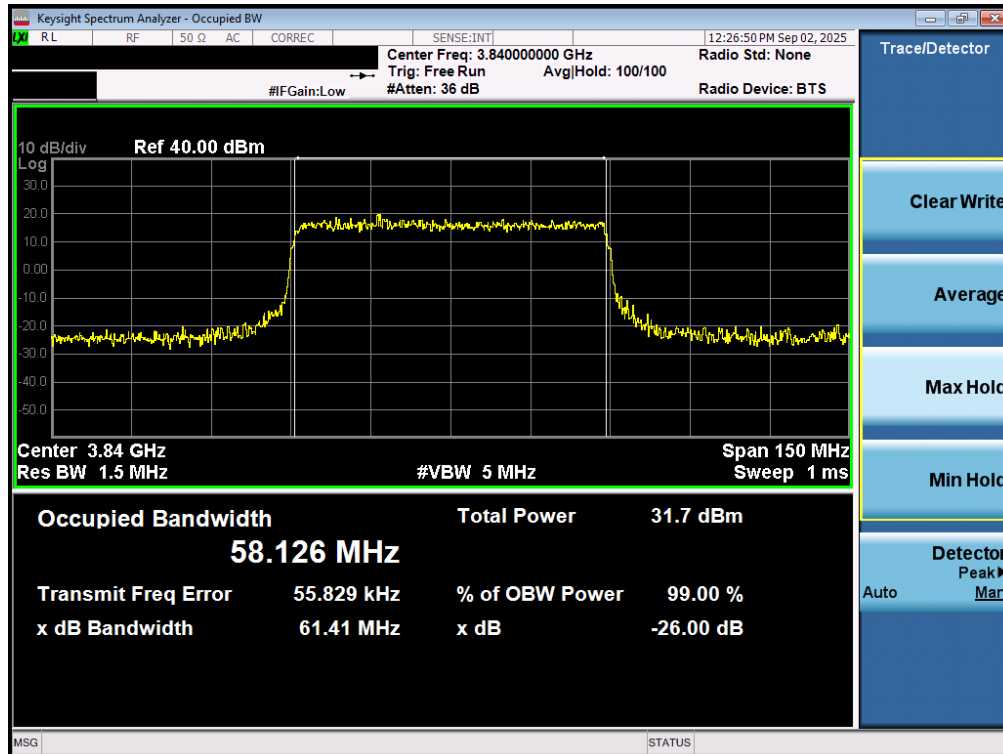


Plot 7-49. Occupied Bandwidth Plot (NR Band n77 - 60MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

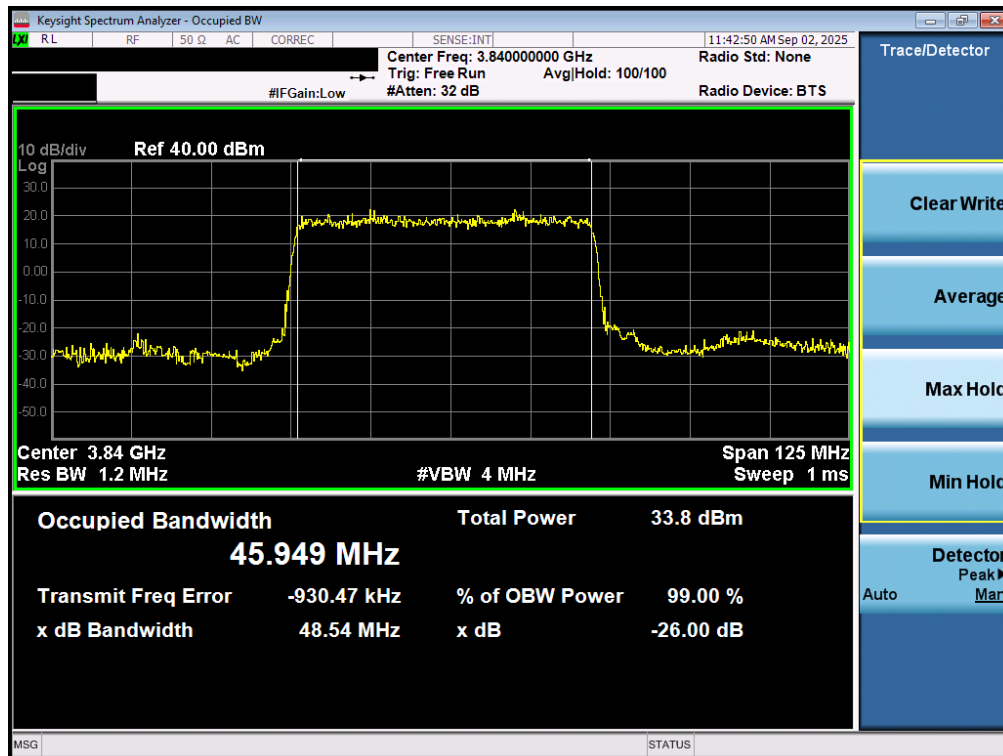


Plot 7-50. Occupied Bandwidth Plot (NR Band n77 - 60MHz QPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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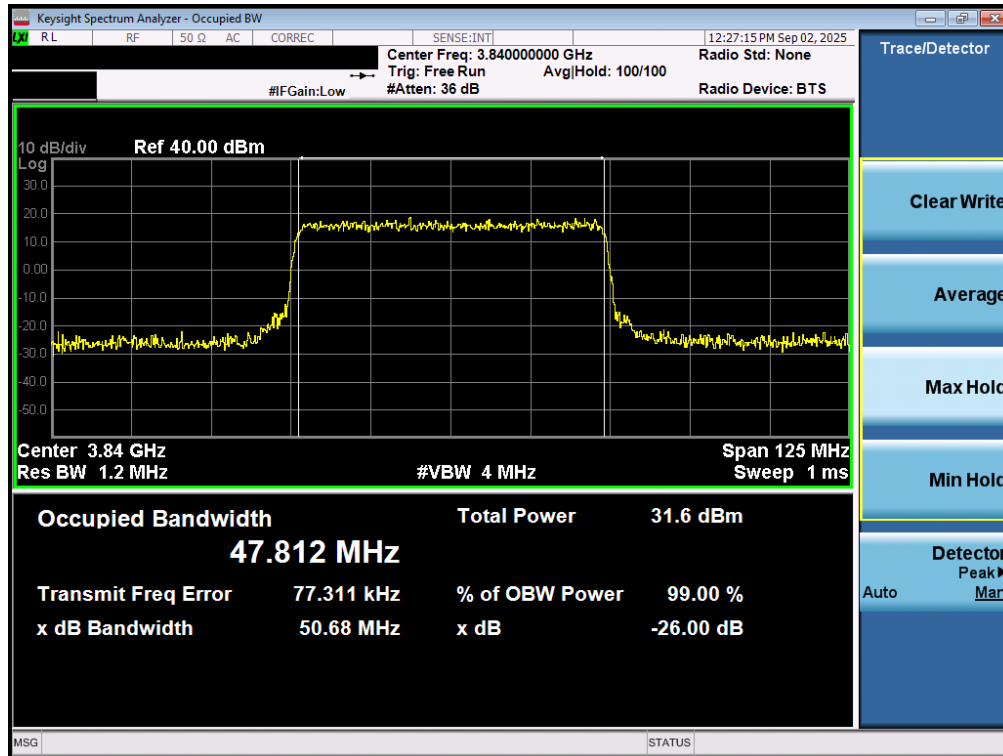


Plot 7-51. Occupied Bandwidth Plot (NR Band n77 - 60MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

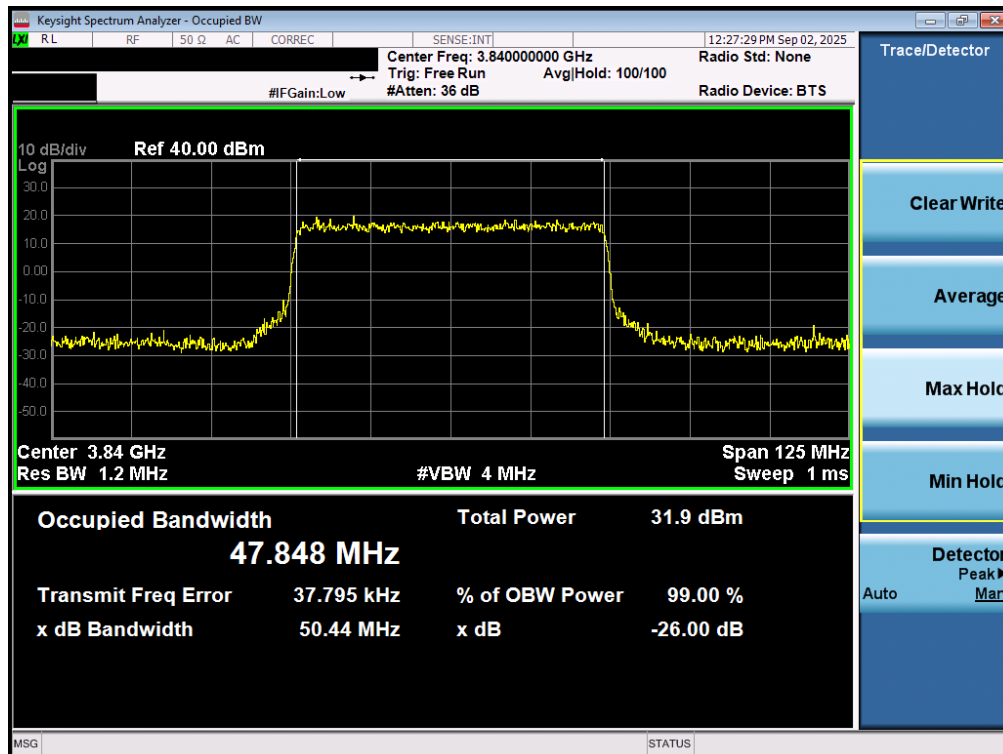


Plot 7-52. Occupied Bandwidth Plot (NR Band n77 - 50MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 55 of 180

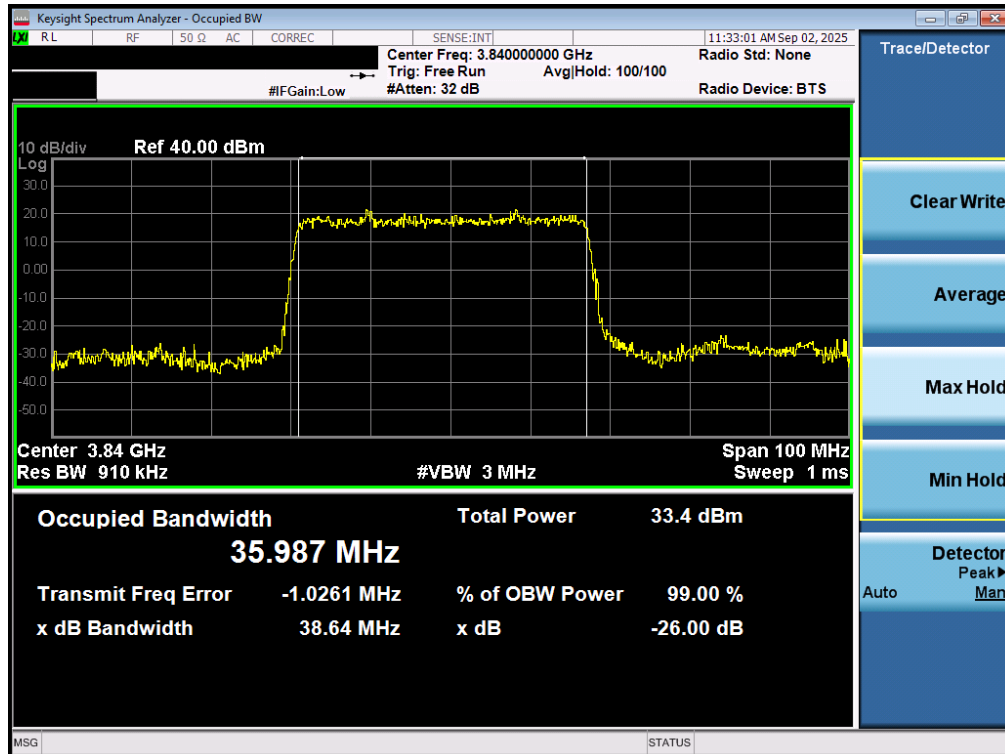


Plot 7-53. Occupied Bandwidth Plot (NR Band n77 - 50MHz QPSK - Full RB - Ant1 - C-Band - Main)

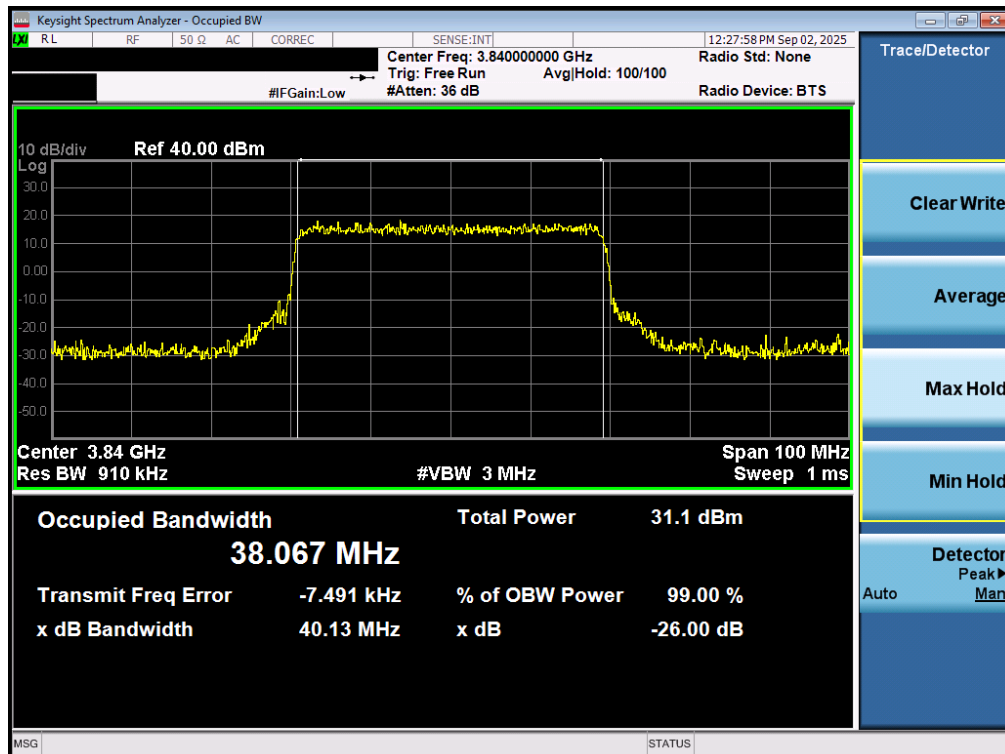


Plot 7-54. Occupied Bandwidth Plot (NR Band n77 - 50MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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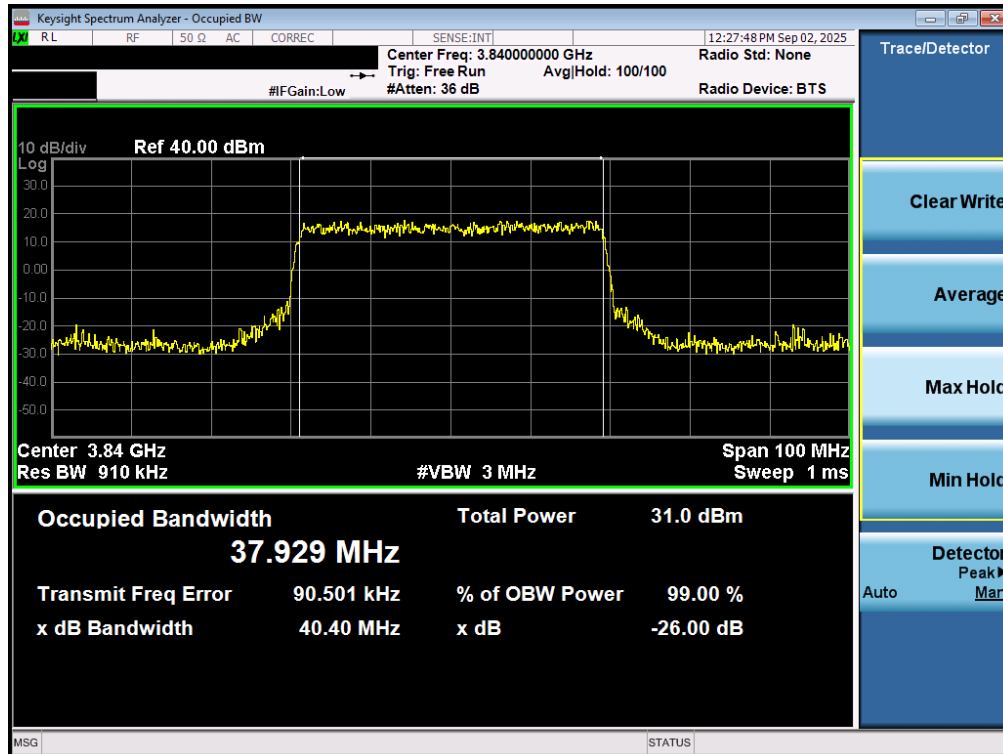


Plot 7-55. Occupied Bandwidth Plot (NR Band n77 - 40MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

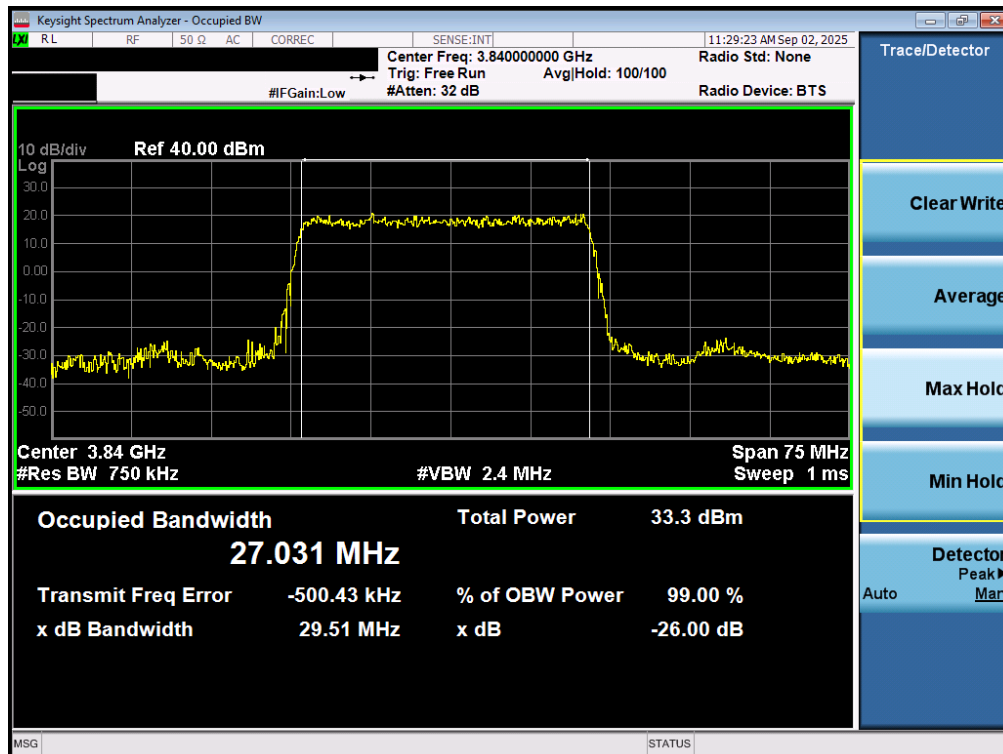


Plot 7-56. Occupied Bandwidth Plot (NR Band n77 - 40MHz QPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 57 of 180

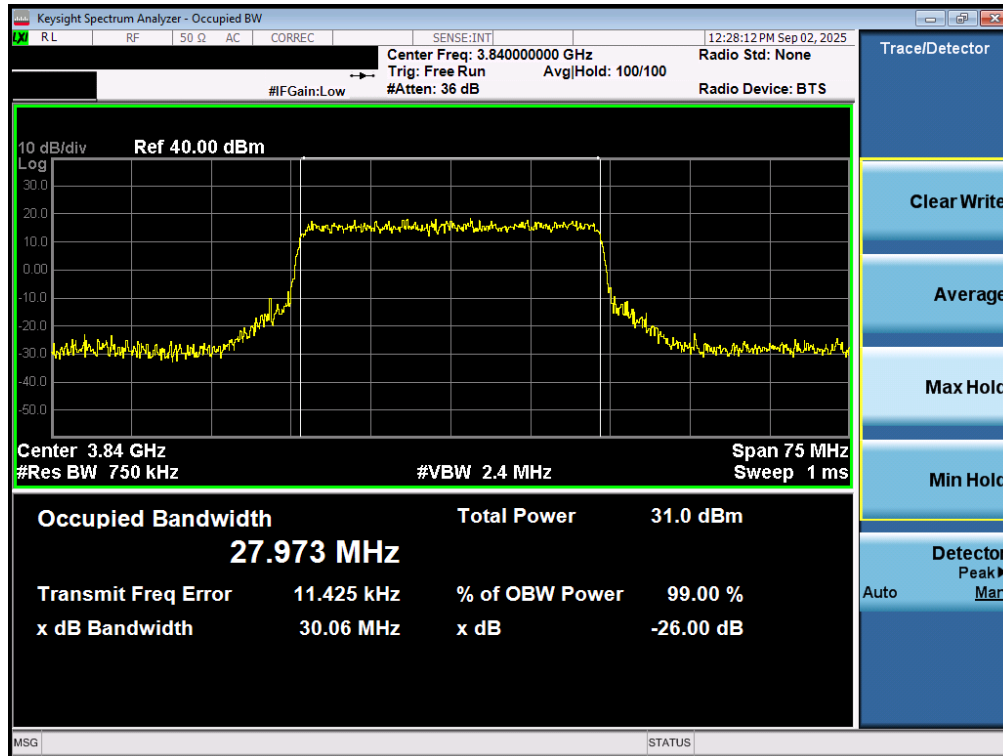


Plot 7-57. Occupied Bandwidth Plot (NR Band n77 - 40MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

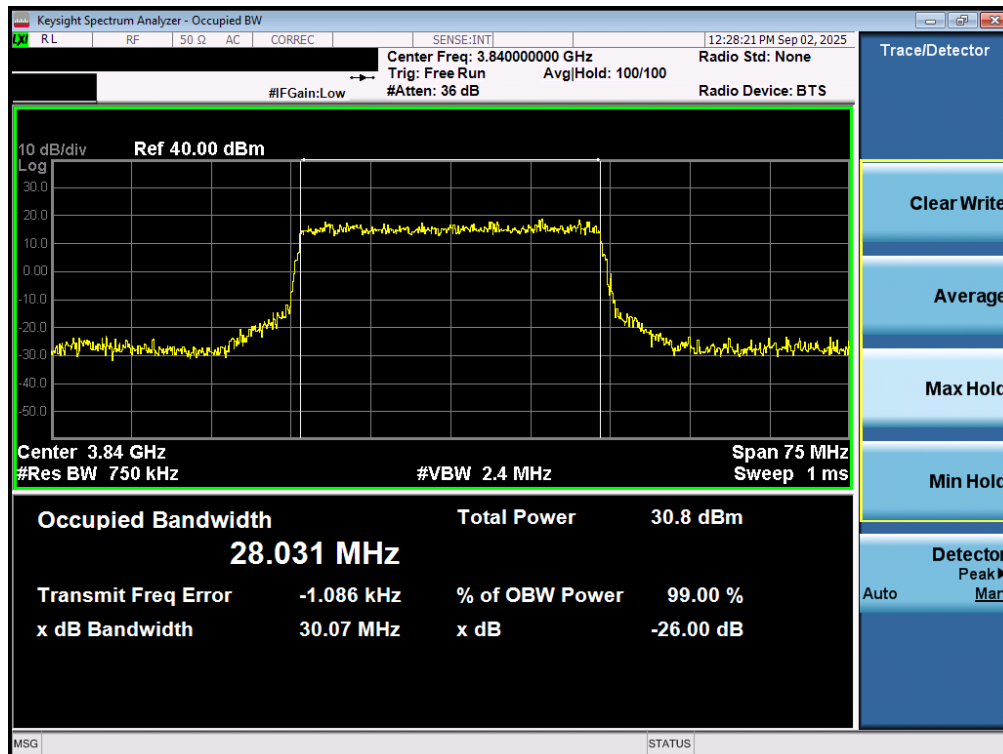


Plot 7-58. Occupied Bandwidth Plot (NR Band n77 - 30MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 58 of 180

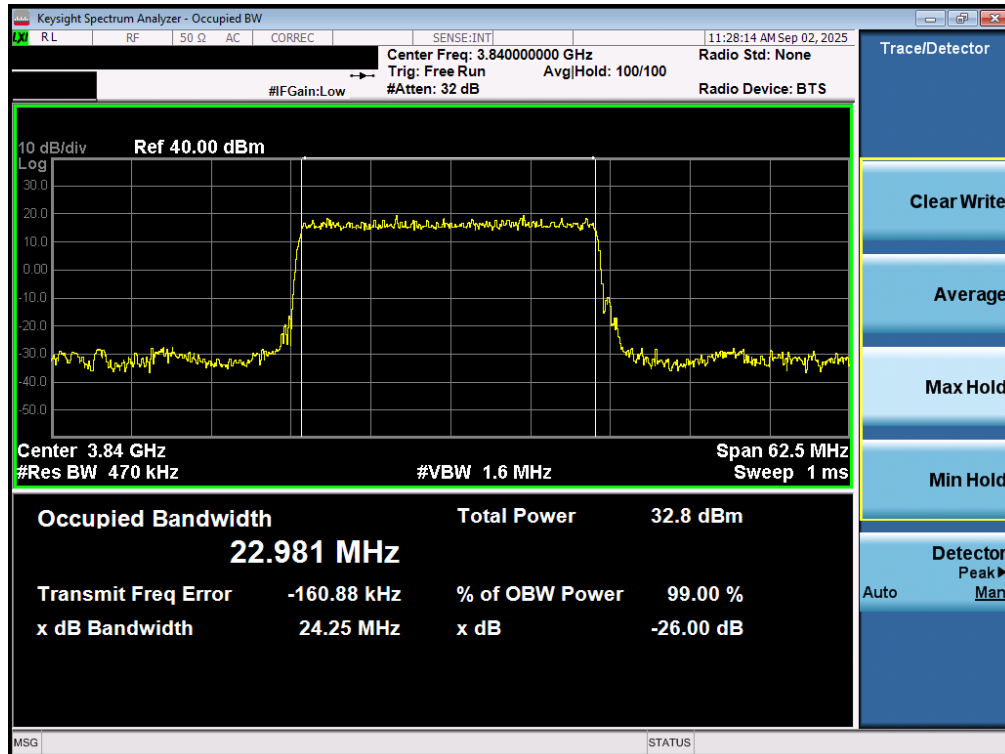


Plot 7-59. Occupied Bandwidth Plot (NR Band n77 - 30MHz QPSK - Full RB - Ant1 - C-Band - Main)

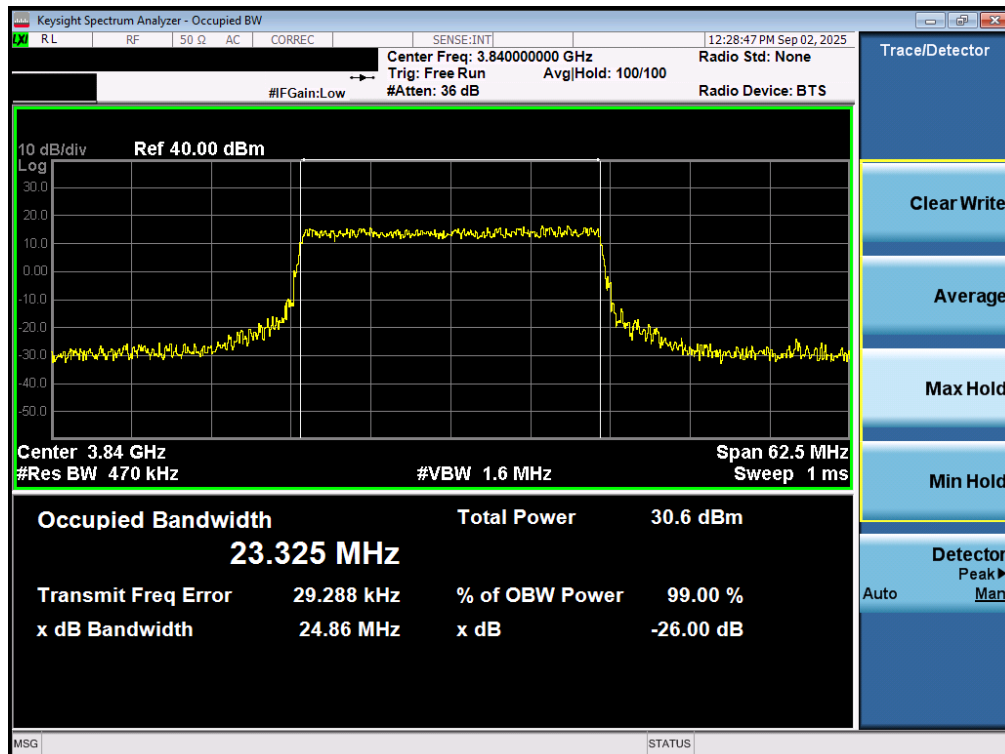


Plot 7-60. Occupied Bandwidth Plot (NR Band n77 - 30MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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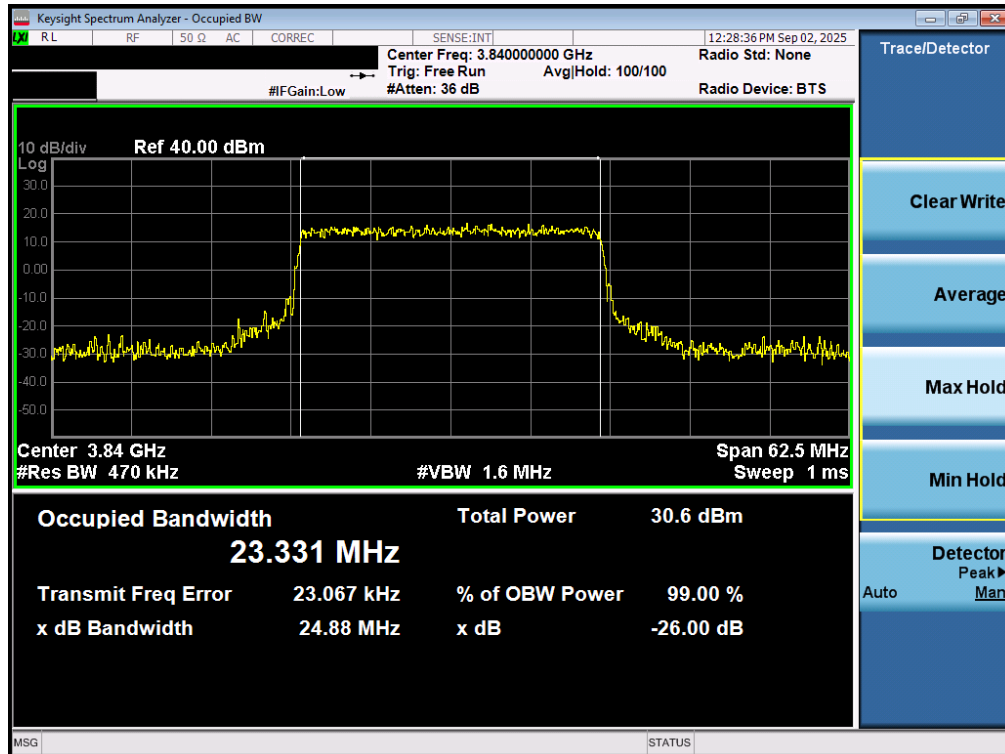


Plot 7-61. Occupied Bandwidth Plot (NR Band n77 - 20MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

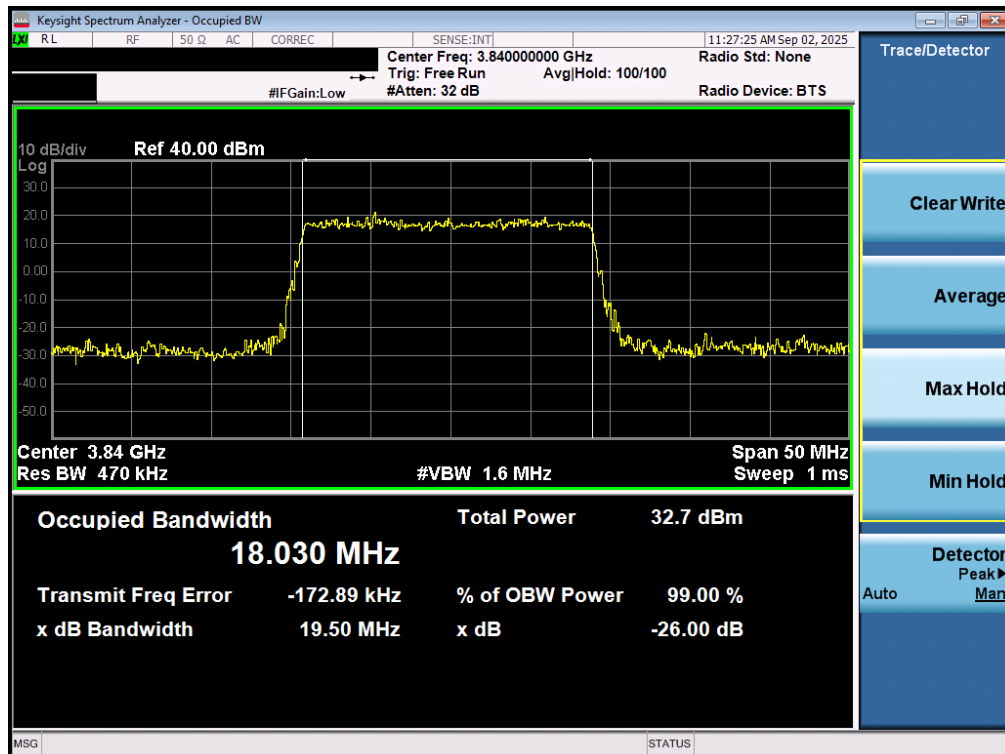


Plot 7-62. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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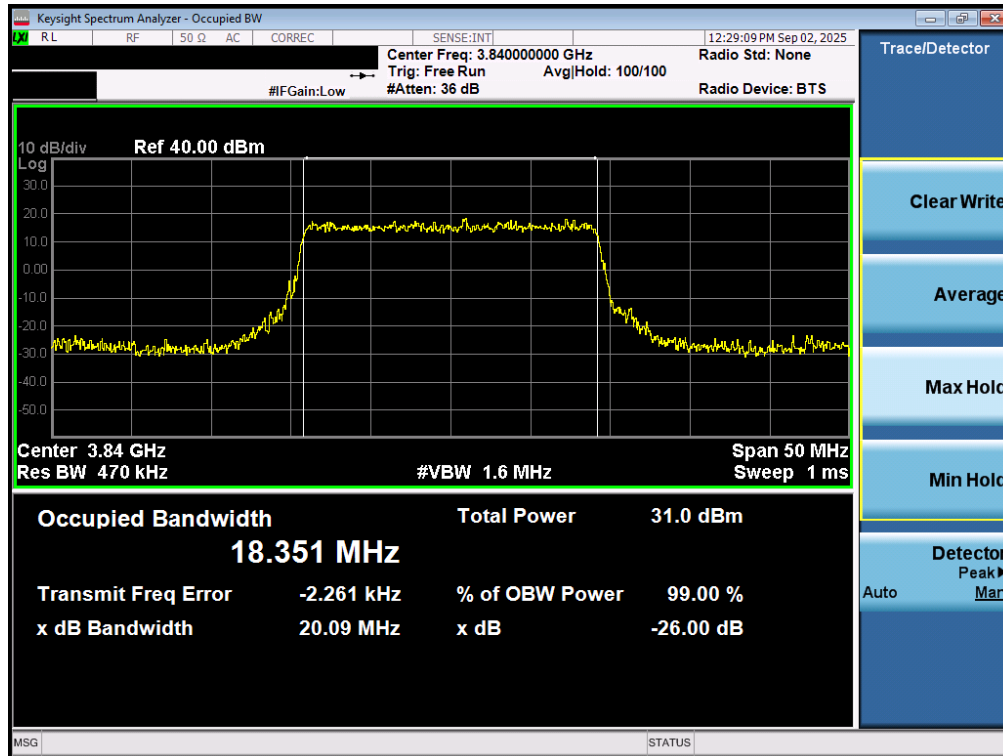


Plot 7-63. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

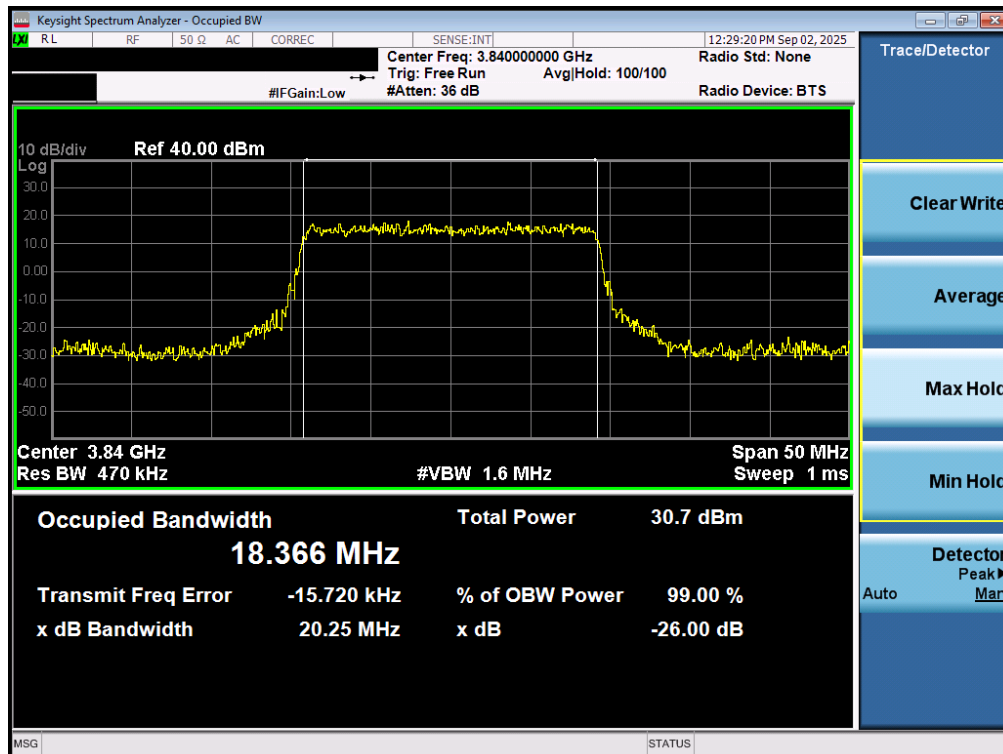


Plot 7-64. Occupied Bandwidth Plot (NR Band n77 - 20MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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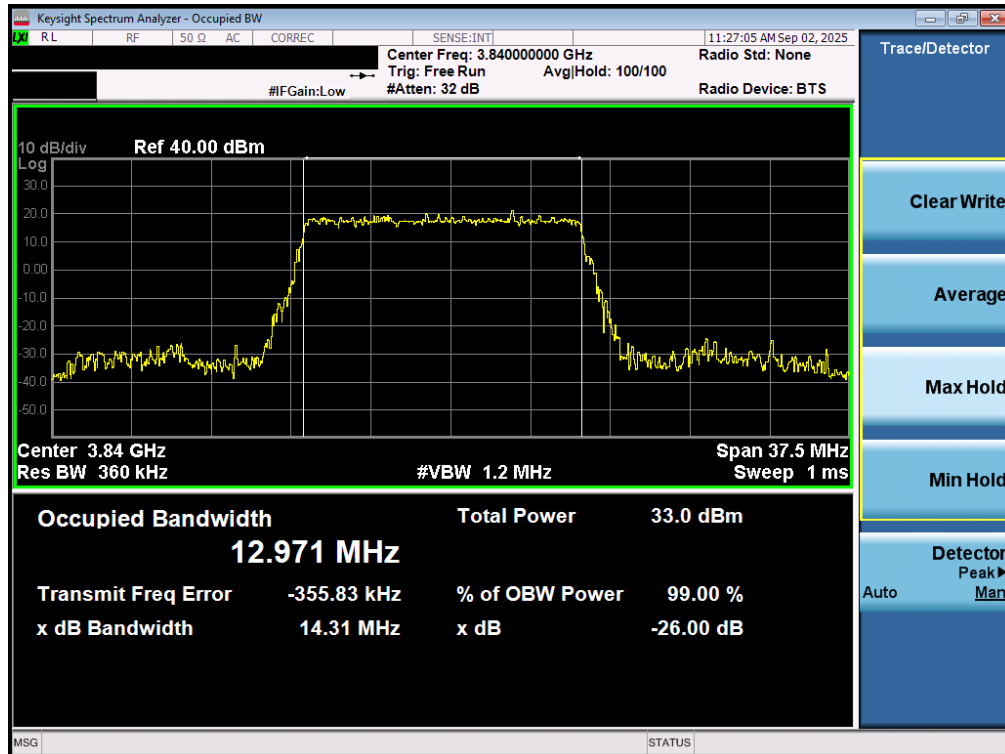


Plot 7-65. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant1 - C-Band - Main)

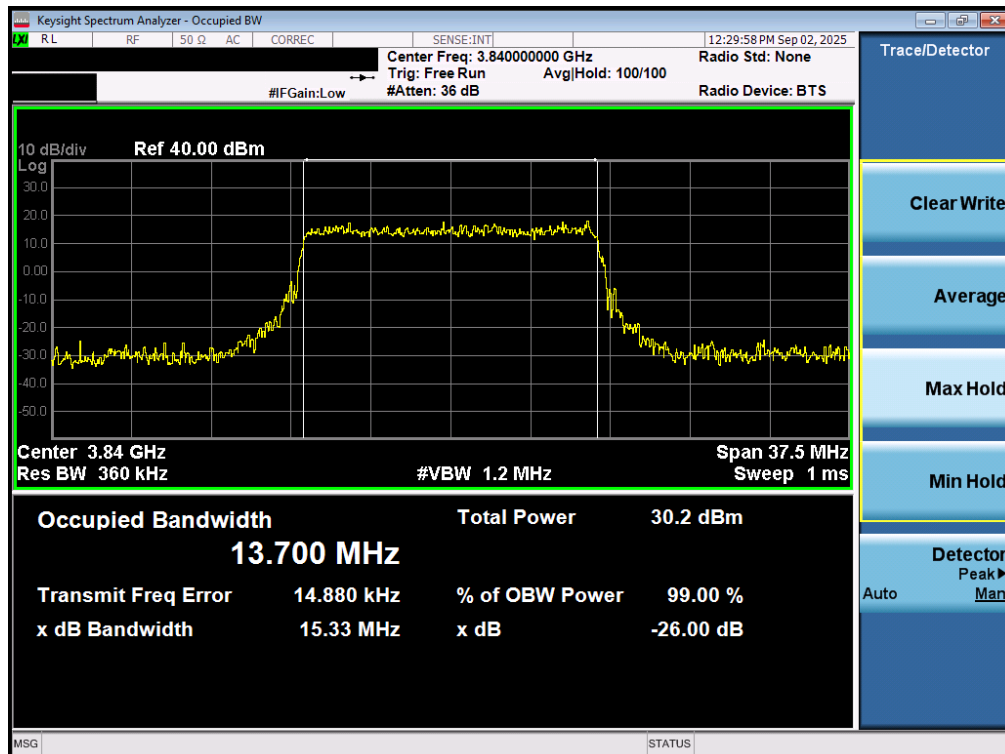


Plot 7-66. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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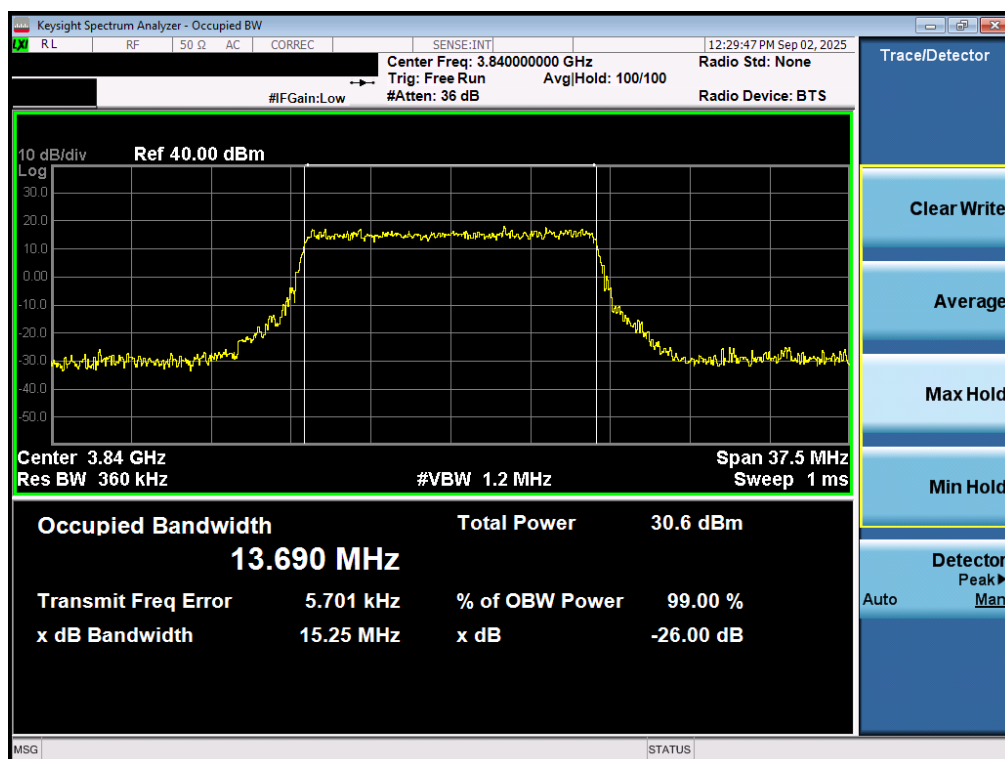


Plot 7-67. Occupied Bandwidth Plot (NR Band n77 - 15MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

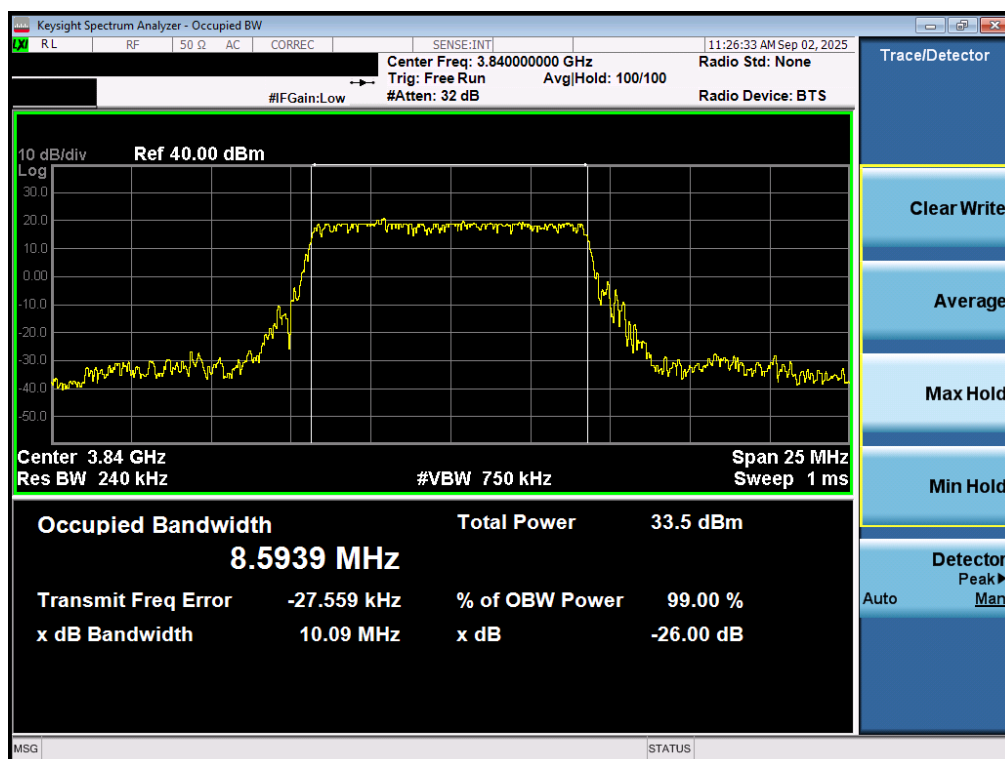


Plot 7-68. Occupied Bandwidth Plot (NR Band n77 - 15MHz QPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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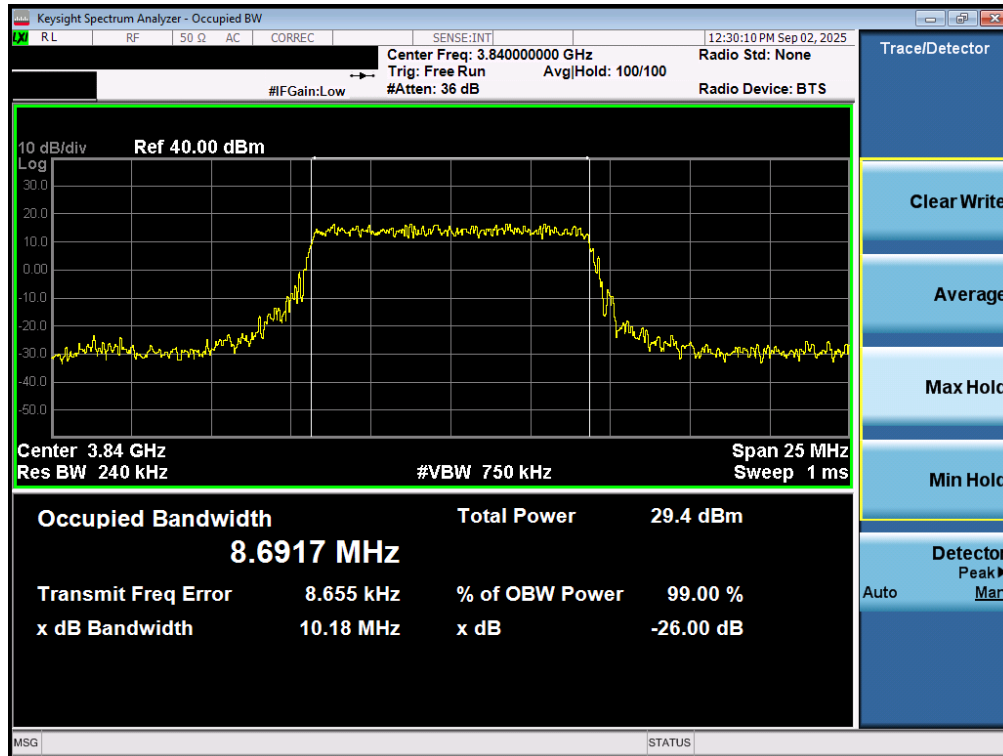


Plot 7-69. Occupied Bandwidth Plot (NR Band n77 - 15MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

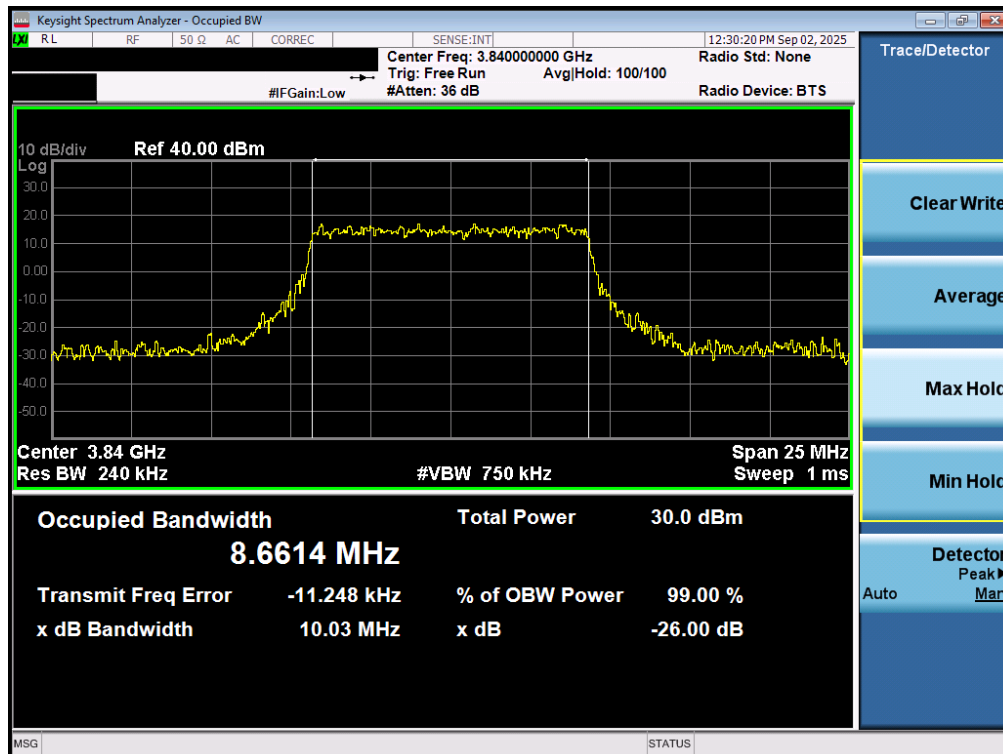


Plot 7-70. Occupied Bandwidth Plot (NR Band n77 - 10MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n77 - 10MHz QPSK - Full RB - Ant1 - C-Band - Main)



Plot 7-72. Occupied Bandwidth Plot (NR Band n77 - 10MHz 16-QAM - Full RB - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77PC2 - Ant1 - DoD Band – UL-MIMO

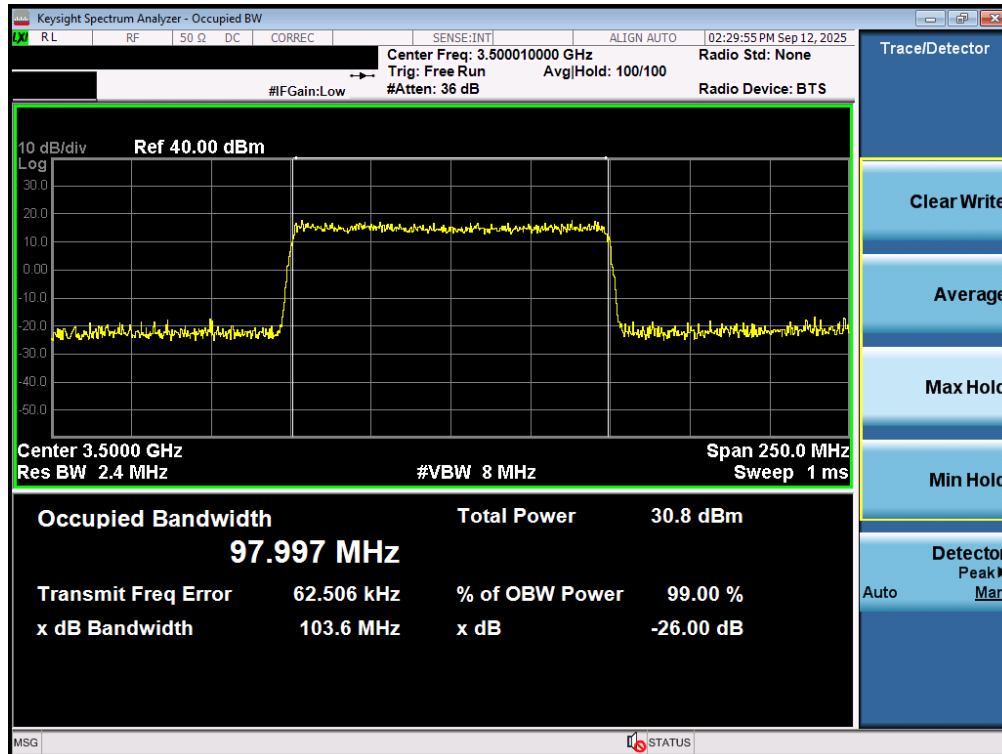
Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2 DoD Band	100MHz	$\pi/2$ BPSK	97.072
		QPSK	97.997
		16QAM	98.026

Table 7-16. Occupied Bandwidth Results – Ant1 – DoD Band – UL-MIMO

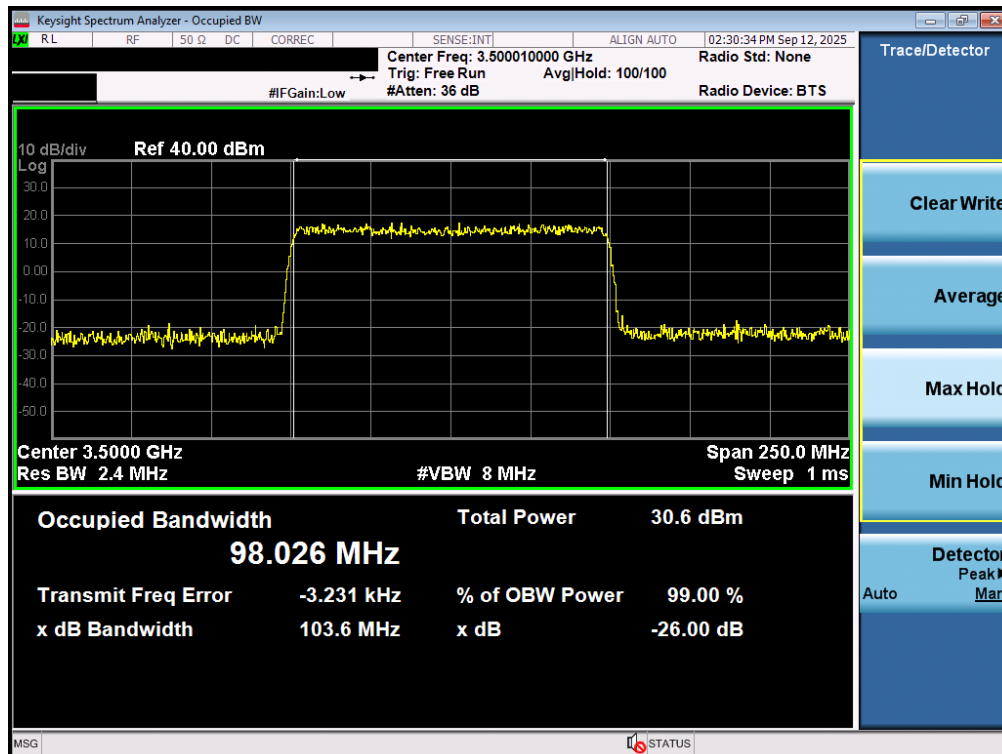


Plot 7-73. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz $\pi/2$ BPSK - Full RB - Ant1 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-74. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz QPSK - Full RB - Ant1 - DoD Band - UL-MIMO)



Plot 7-75. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz 16-QAM - Full RB - Ant1 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77PC2 - Ant1 - C Band – UL-MIMO

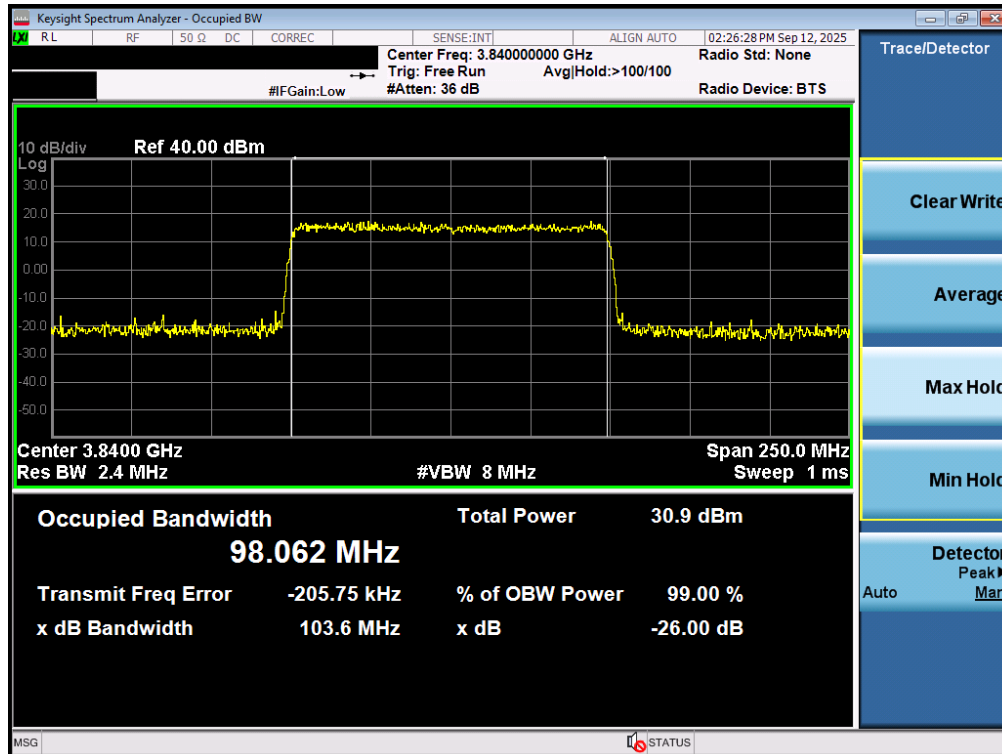
Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2 C-Band	100MHz	$\pi/2$ BPSK	97.200
		QPSK	98.062
		16QAM	98.123

Table 7-17. Occupied Bandwidth Results – Ant1 – DoD Band – UL-MIMO

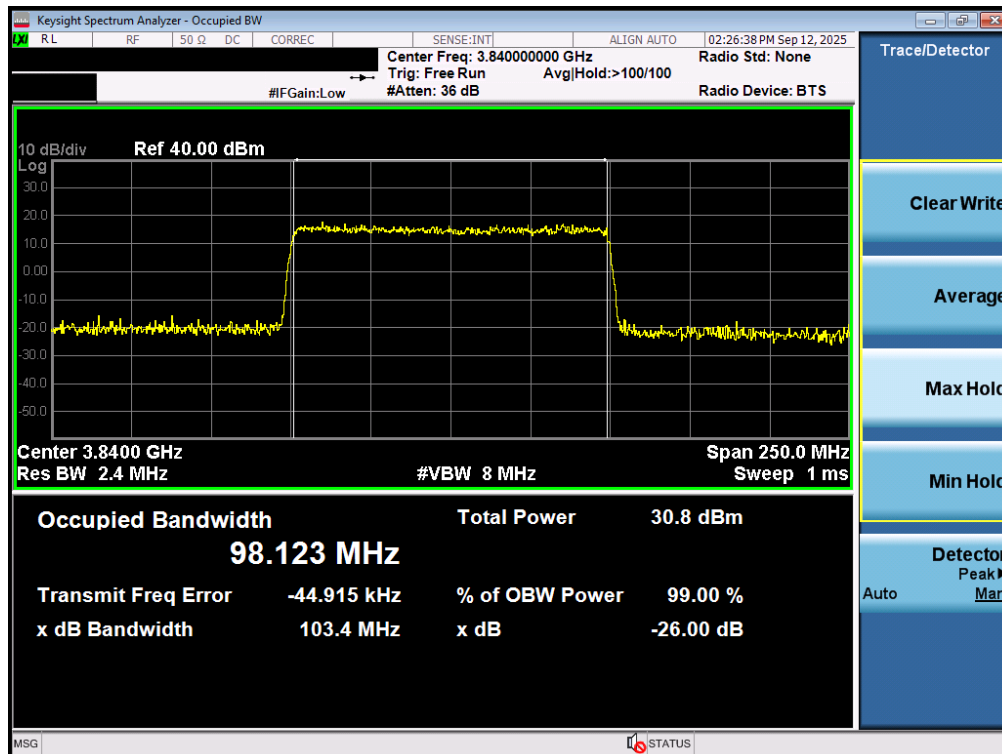


Plot 7-76. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-77. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)



Plot 7-78. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

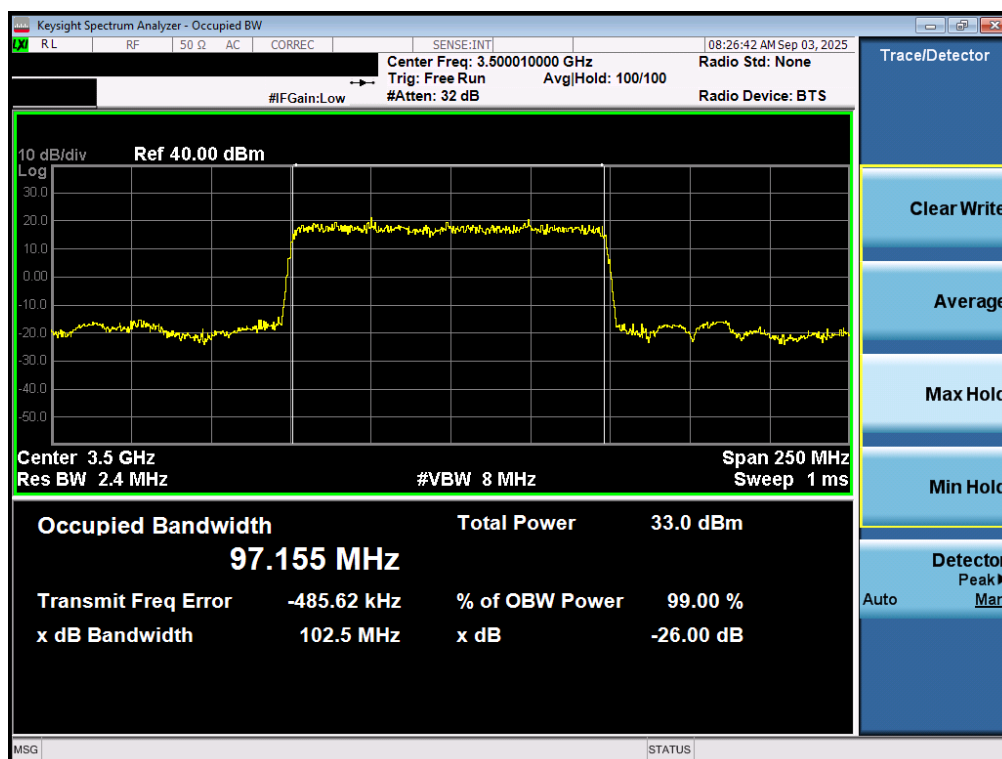
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2 DoD Band	100MHz	$\pi/2$ BPSK	97.155
		QPSK	97.815
		16QAM	97.954
	90MHz	$\pi/2$ BPSK	86.898
		QPSK	88.039
		16QAM	87.725
	80MHz	$\pi/2$ BPSK	77.503
		QPSK	77.899
		16QAM	77.915
	70MHz	$\pi/2$ BPSK	64.664
		QPSK	67.907
		16QAM	67.728
	60MHz	$\pi/2$ BPSK	58.217
		QPSK	58.123
		16QAM	58.165
	50MHz	$\pi/2$ BPSK	45.967
		QPSK	47.722
		16QAM	47.710
	40MHz	$\pi/2$ BPSK	35.913
		QPSK	38.086
		16QAM	38.021
	30MHz	$\pi/2$ BPSK	27.038
		QPSK	28.062
		16QAM	28.060
	25MHz	$\pi/2$ BPSK	22.966
		QPSK	23.348
		16QAM	23.318
	20MHz	$\pi/2$ BPSK	18.037
		QPSK	18.348
		16QAM	18.363
	15MHz	$\pi/2$ BPSK	12.999
		QPSK	13.762
		16QAM	13.703
	10MHz	$\pi/2$ BPSK	8.684
		QPSK	8.709
		16QAM	8.690

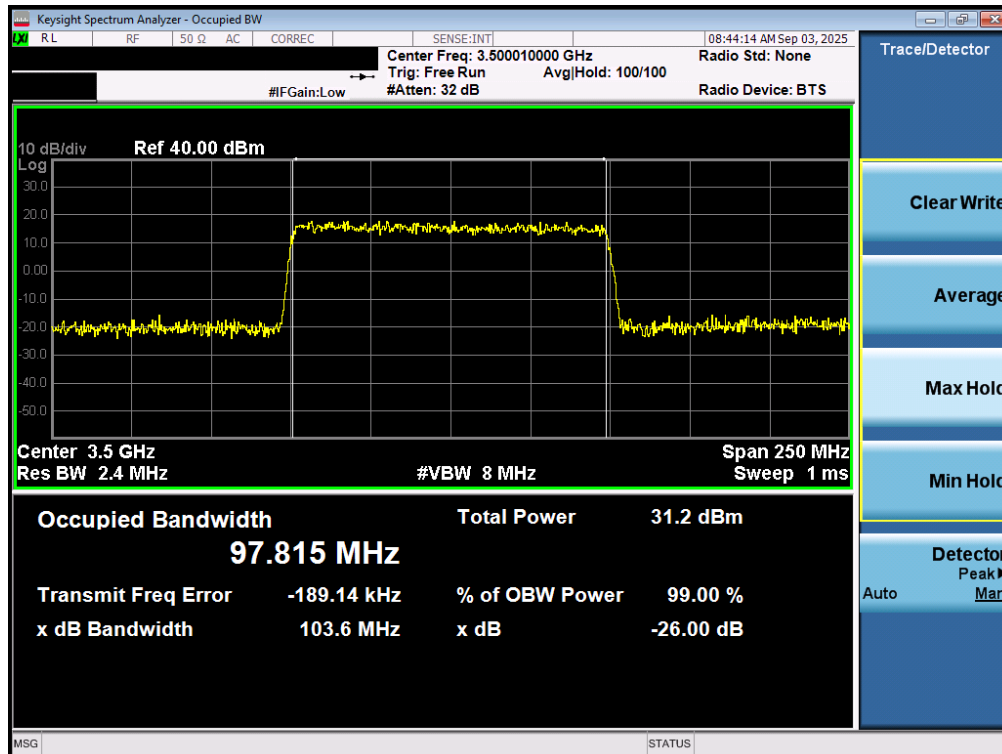
Table 7-18. Occupied Bandwidth Results – Ant2 – DoD Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77PC2 - Ant2 - DoD Band – UL-MIMO

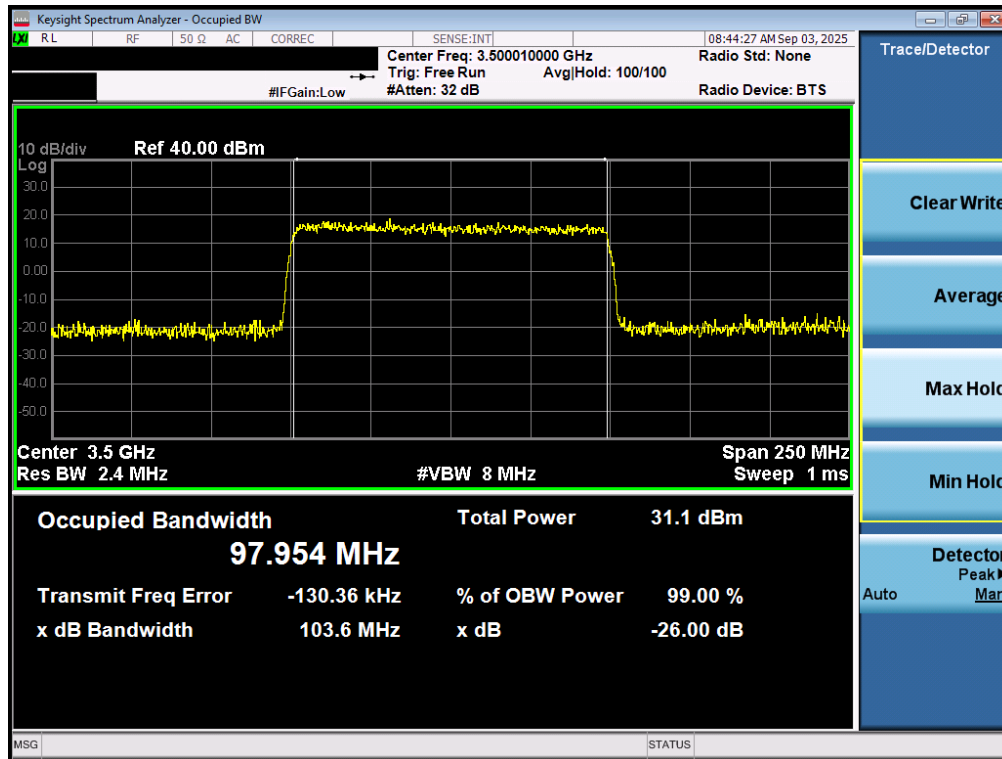


Plot 7-79. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

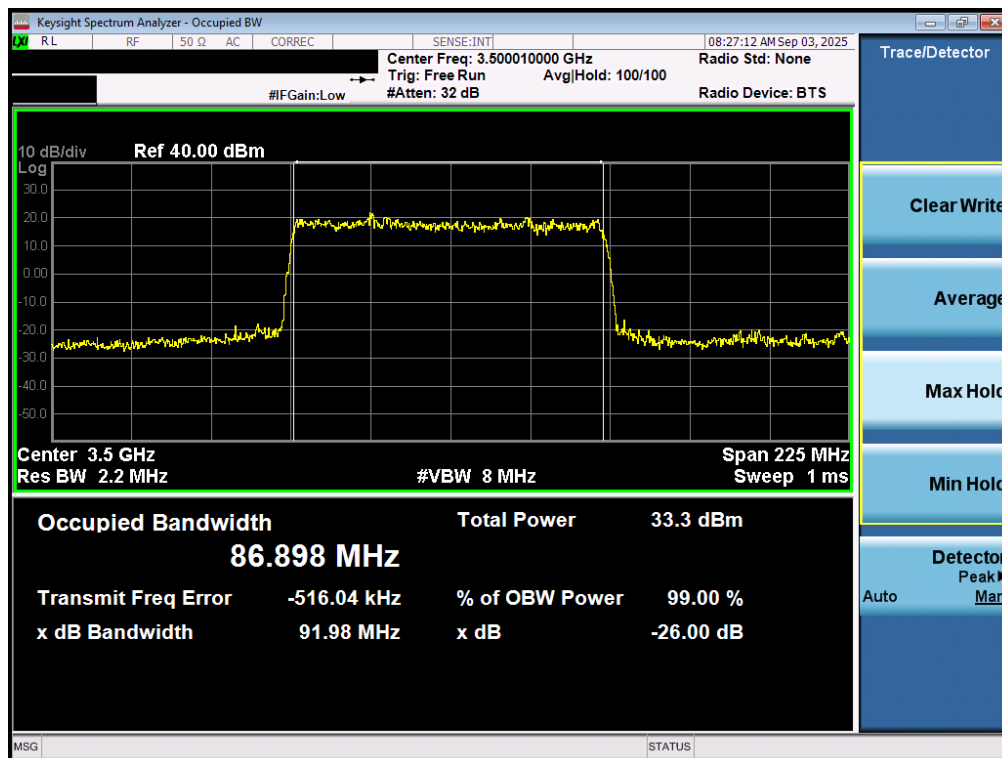


Plot 7-80. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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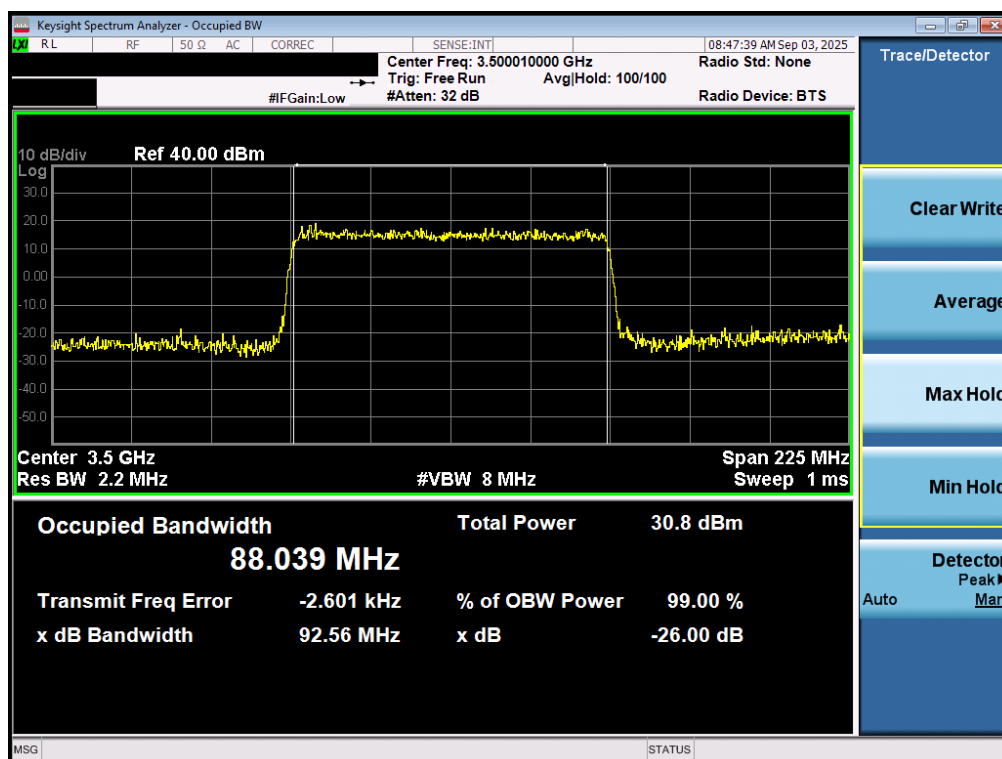


Plot 7-81. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

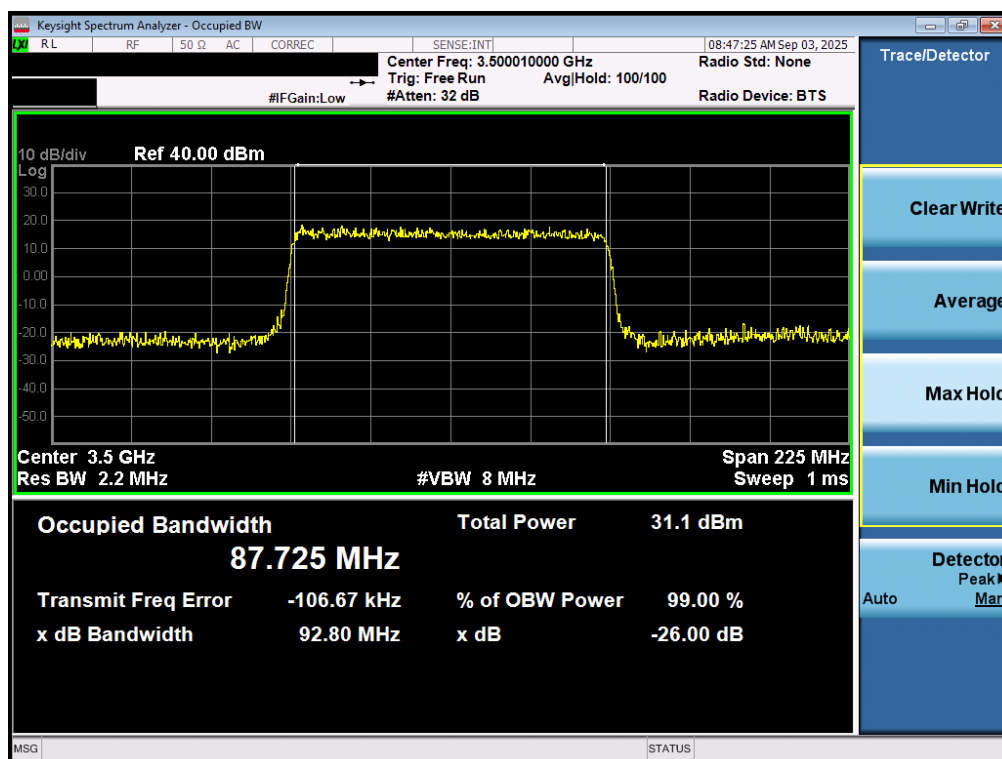


Plot 7-82. Occupied Bandwidth Plot (NR Band n77 - 90MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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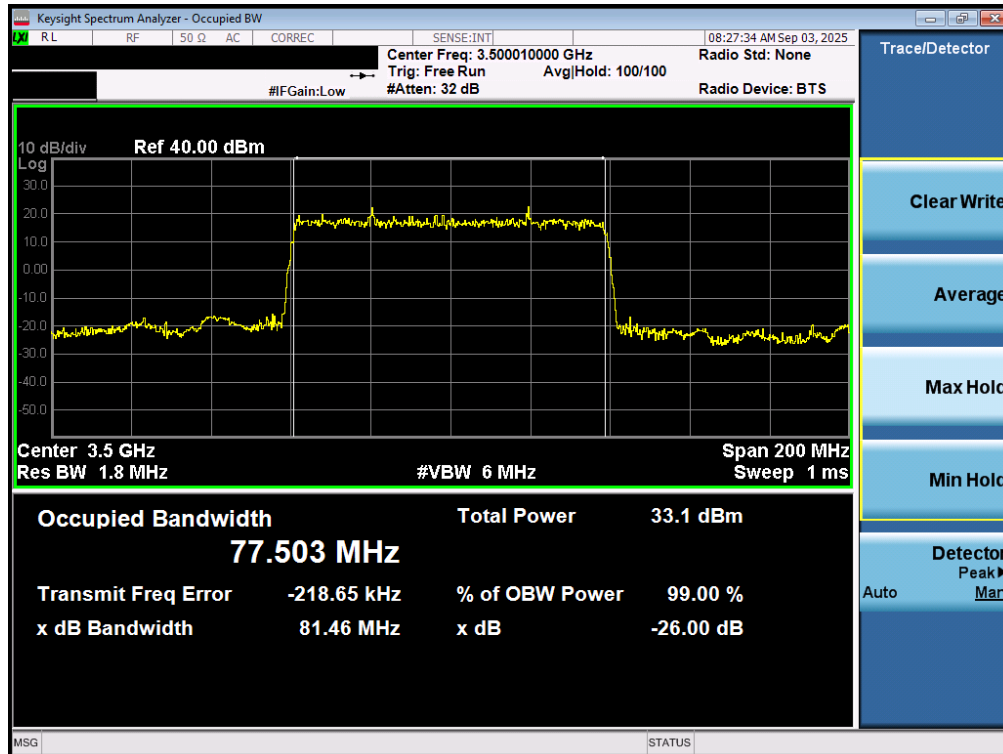


Plot 7-83. Occupied Bandwidth Plot (NR Band n77 - 90MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

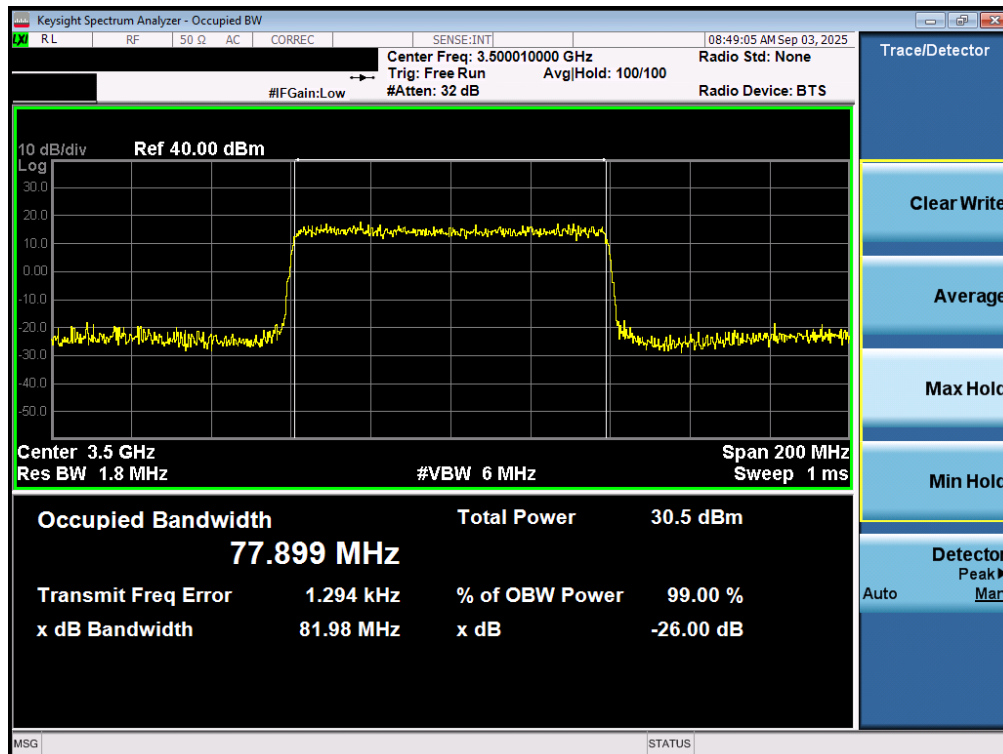


Plot 7-84. Occupied Bandwidth Plot (NR Band n77 - 90MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

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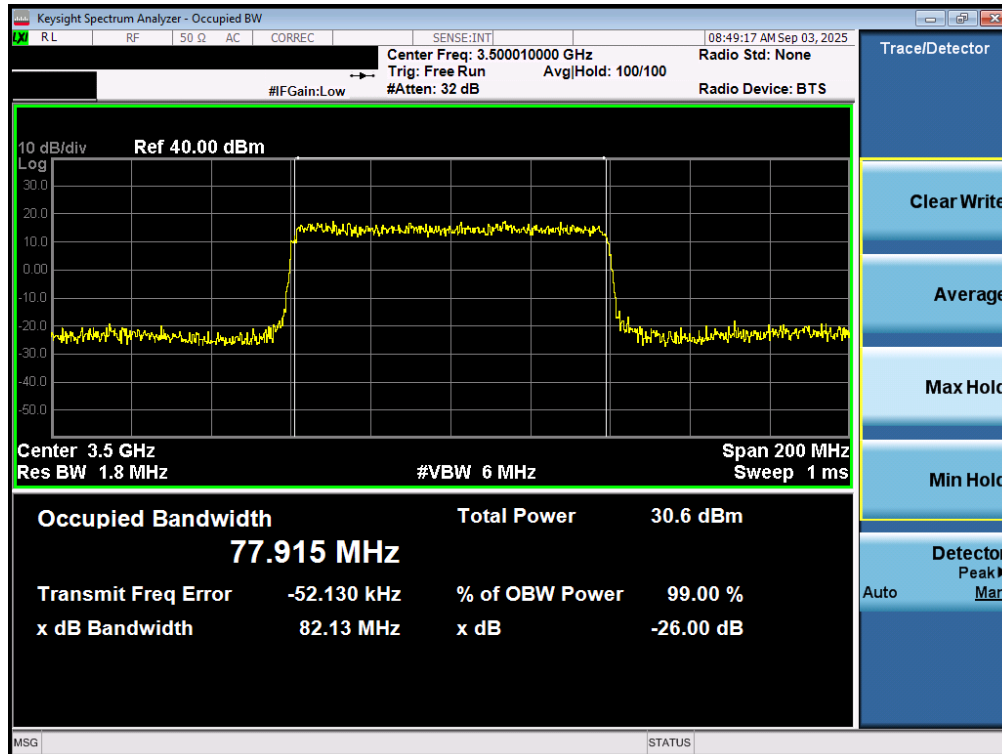


Plot 7-85. Occupied Bandwidth Plot (NR Band n77 - 80MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

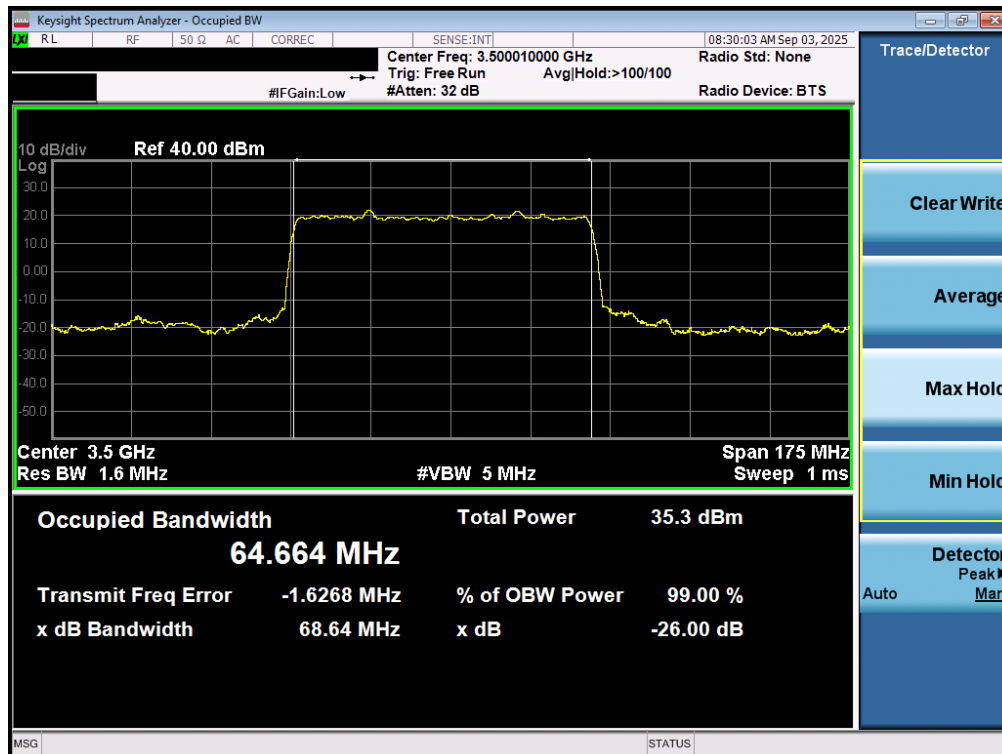


Plot 7-86. Occupied Bandwidth Plot (NR Band n77 - 80MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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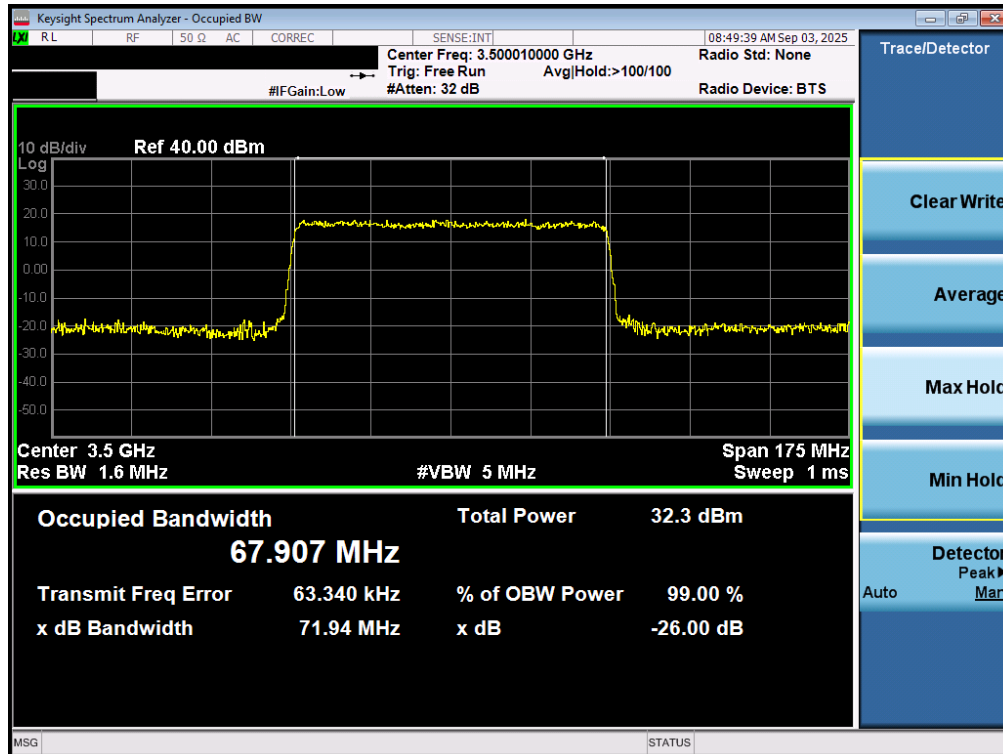


Plot 7-87. Occupied Bandwidth Plot (NR Band n77 - 80MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

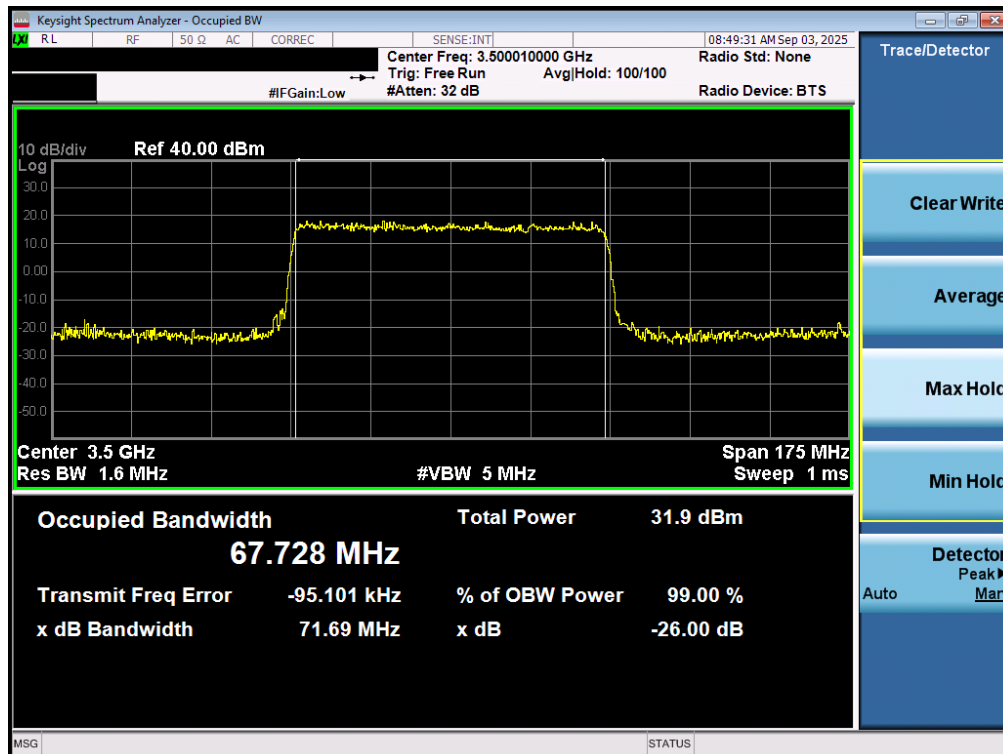


Plot 7-88. Occupied Bandwidth Plot (NR Band n77 - 70MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

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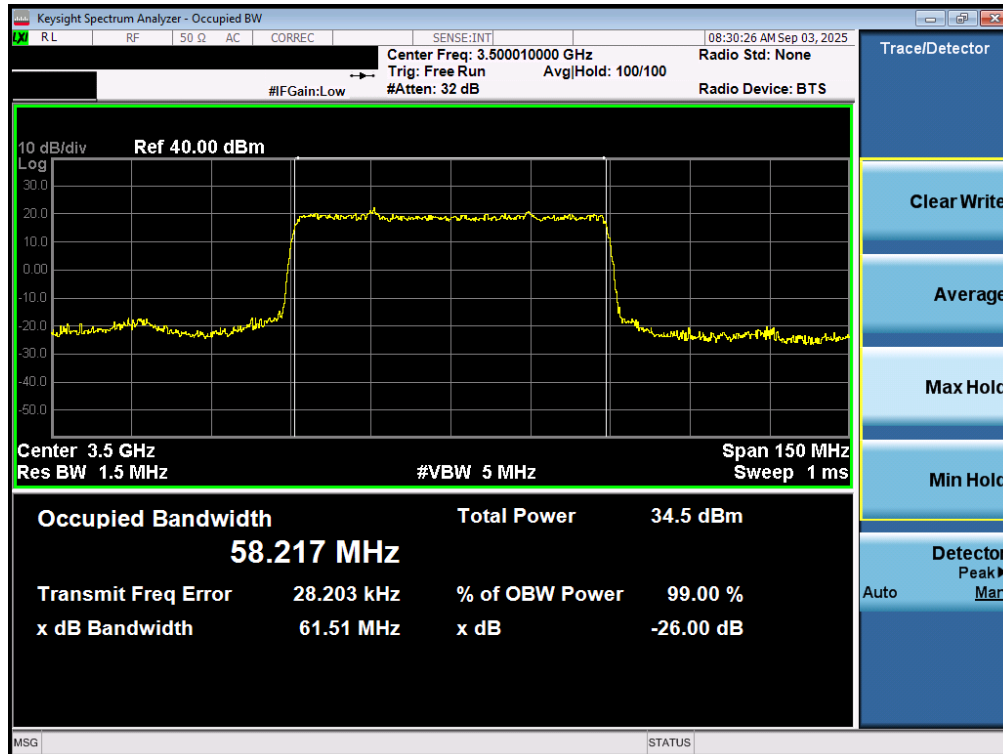


Plot 7-89. Occupied Bandwidth Plot (NR Band n77 - 70MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

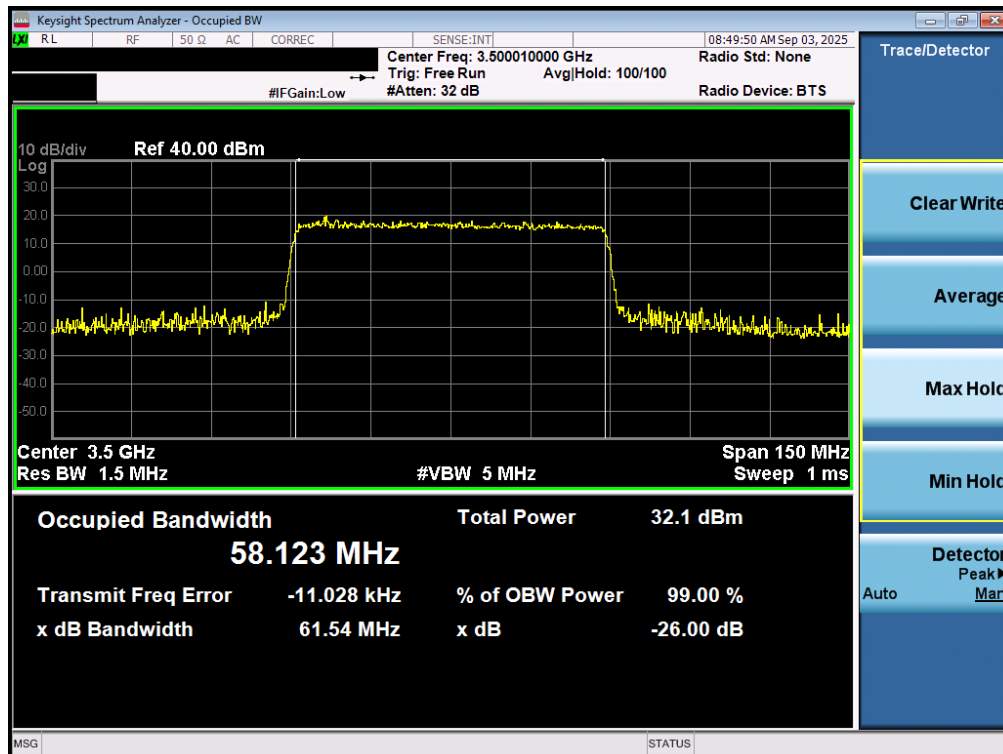


Plot 7-90. Occupied Bandwidth Plot (NR Band n77 - 70MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

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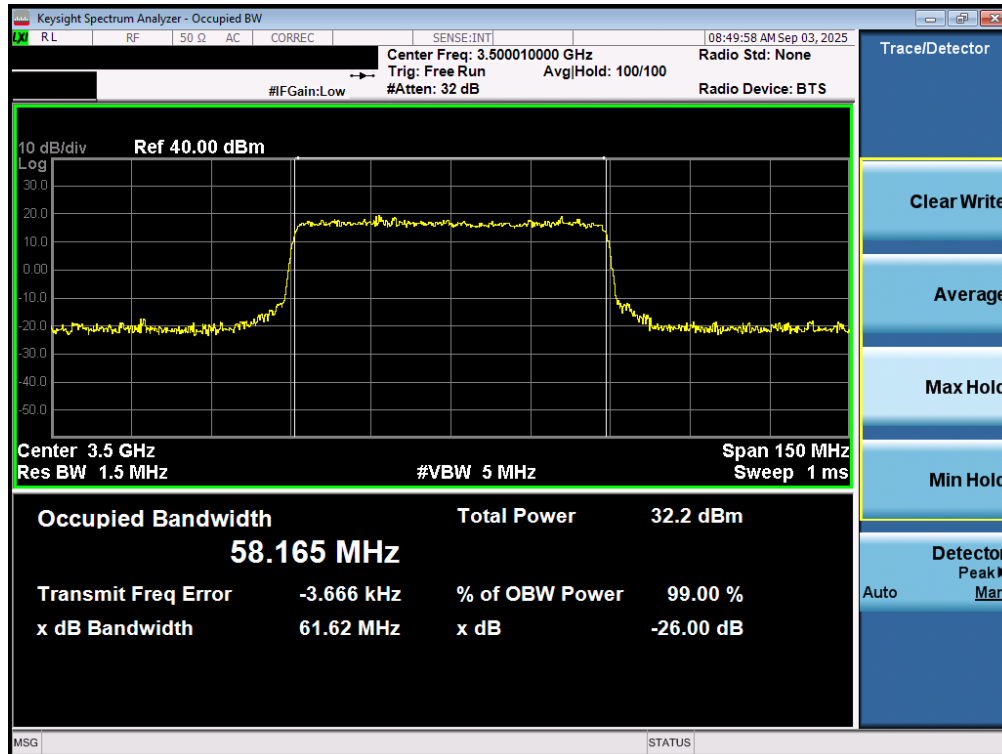


Plot 7-91. Occupied Bandwidth Plot (NR Band n77 - 60MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

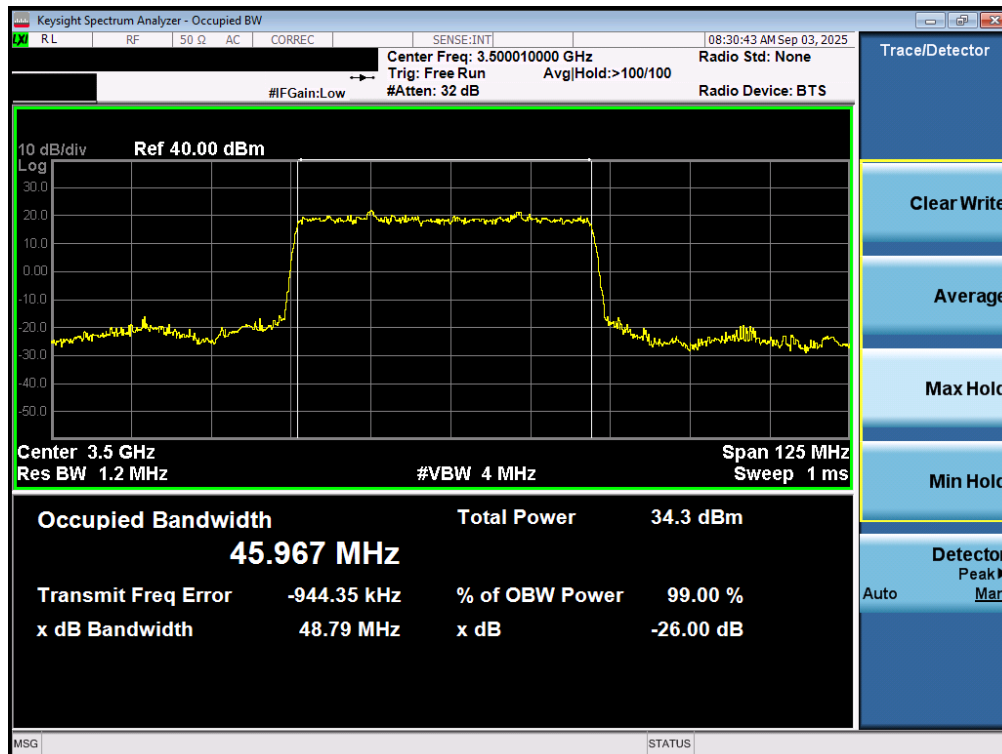


Plot 7-92. Occupied Bandwidth Plot (NR Band n77 - 60MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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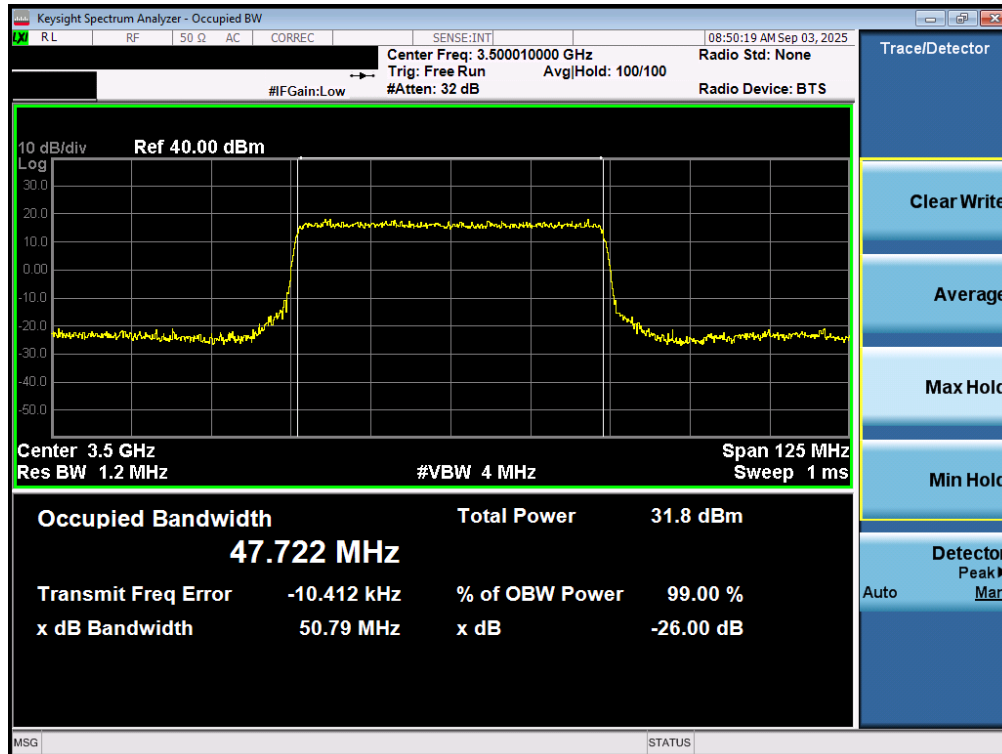


Plot 7-93. Occupied Bandwidth Plot (NR Band n77 - 60MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

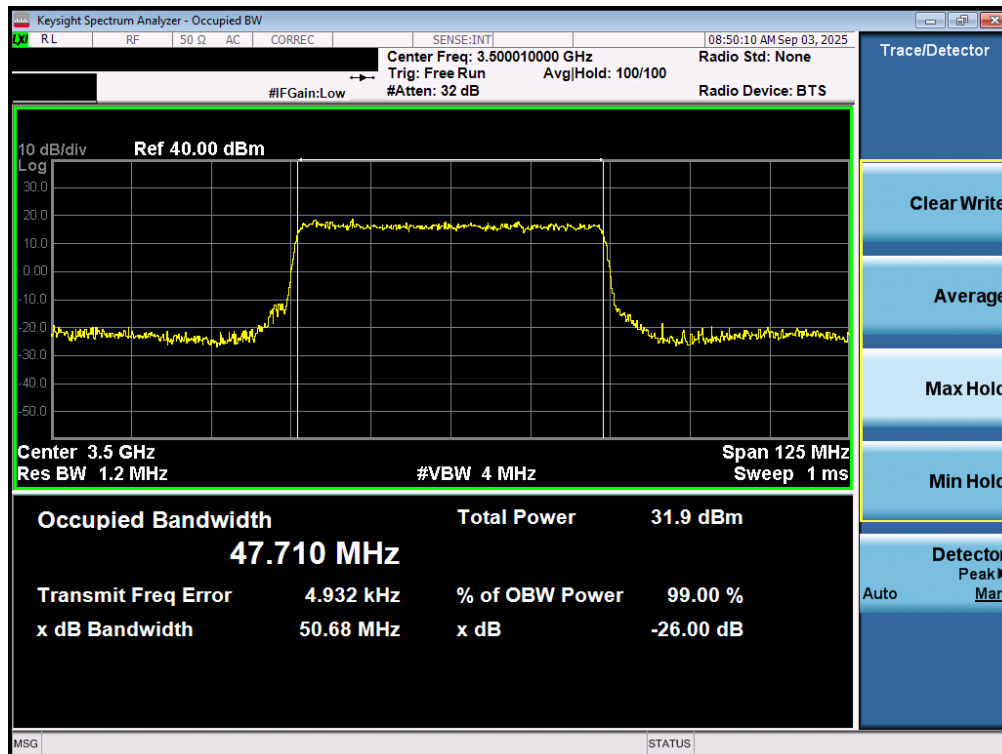


Plot 7-94. Occupied Bandwidth Plot (NR Band n77 - 50MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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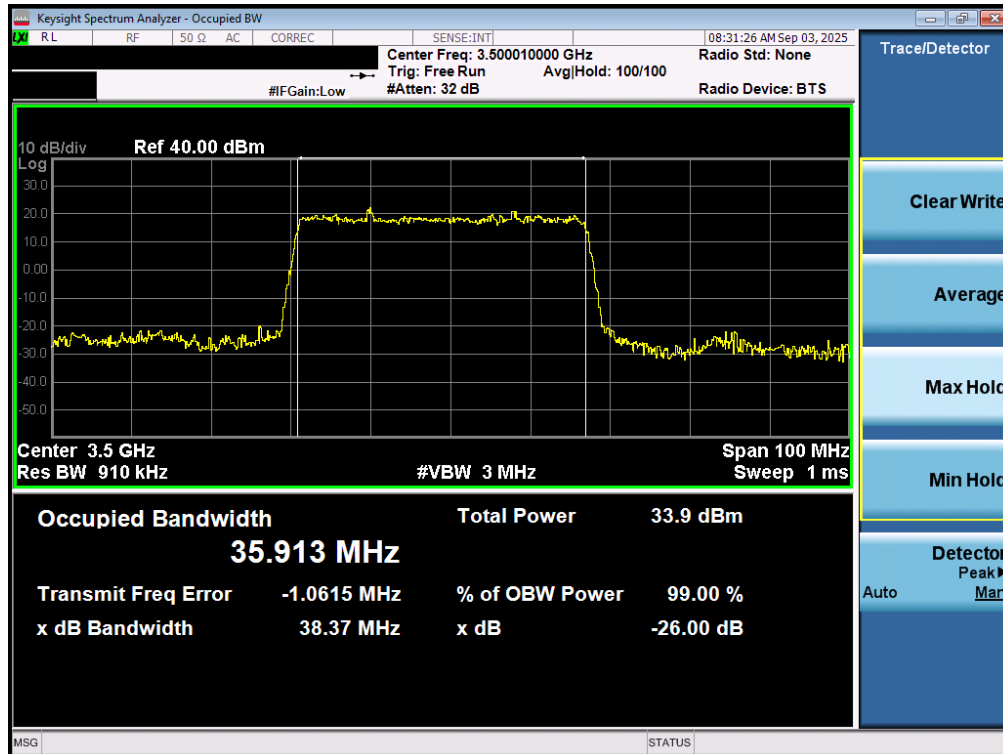


Plot 7-95. Occupied Bandwidth Plot (NR Band n77 - 50MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

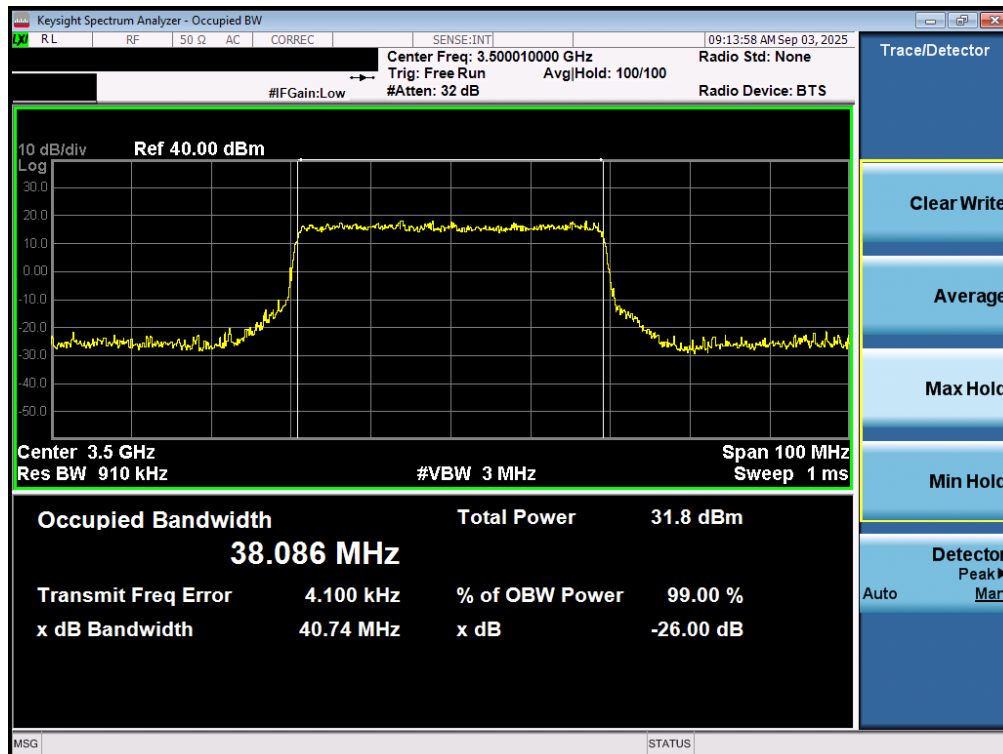


Plot 7-96. Occupied Bandwidth Plot (NR Band n77 - 50MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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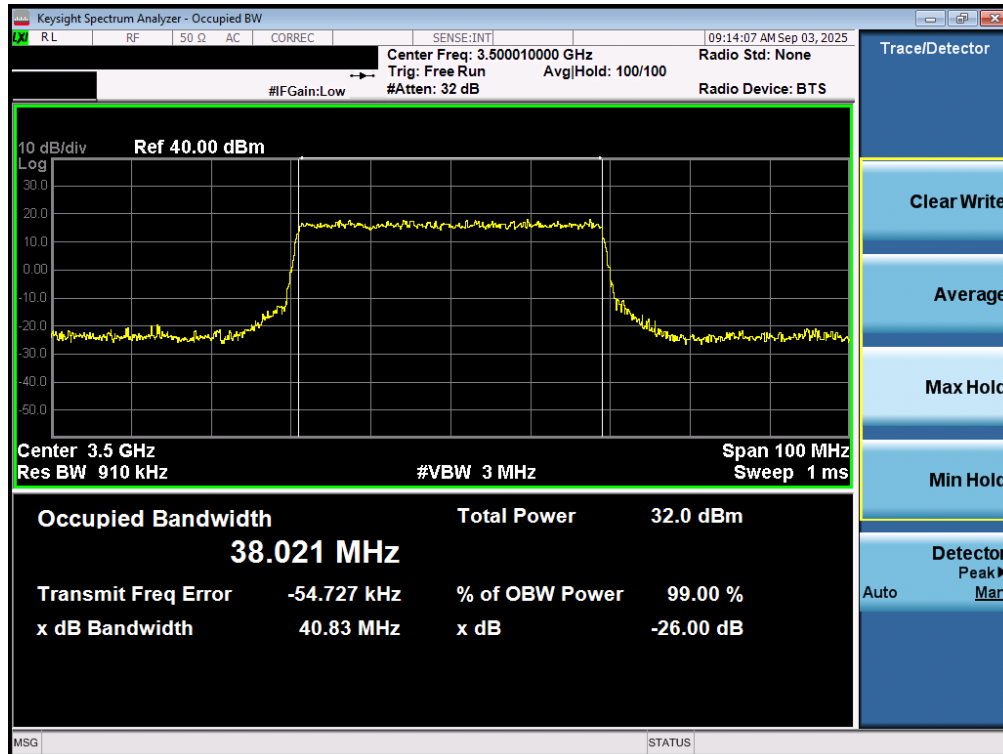


Plot 7-97. Occupied Bandwidth Plot (NR Band n77 - 40MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

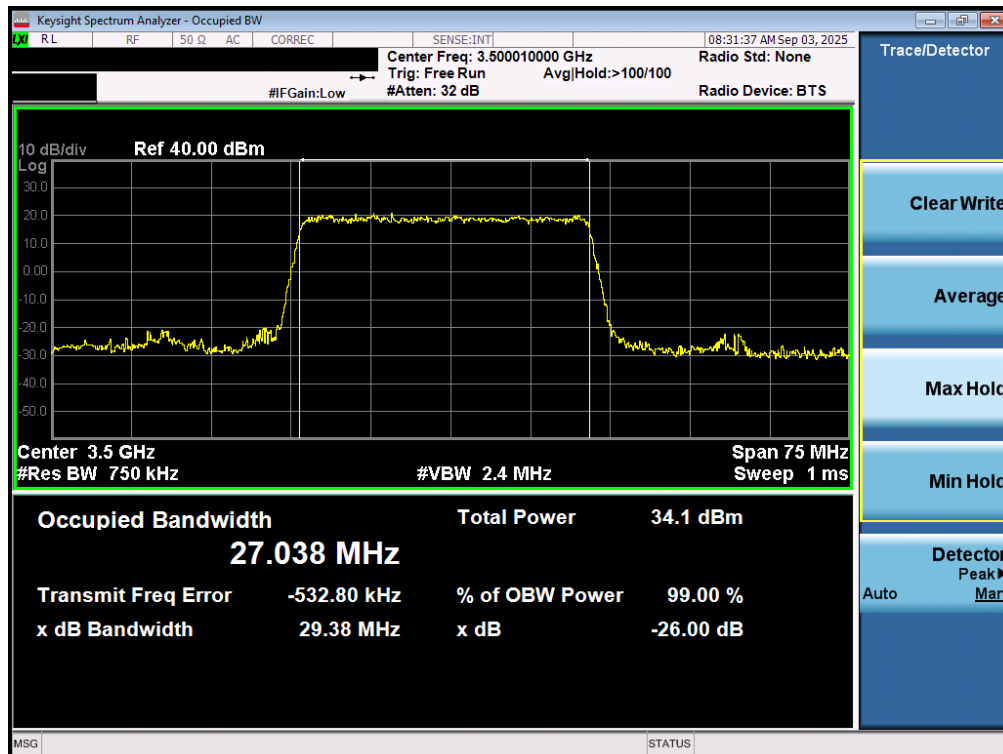


Plot 7-98. Occupied Bandwidth Plot (NR Band n77 - 40MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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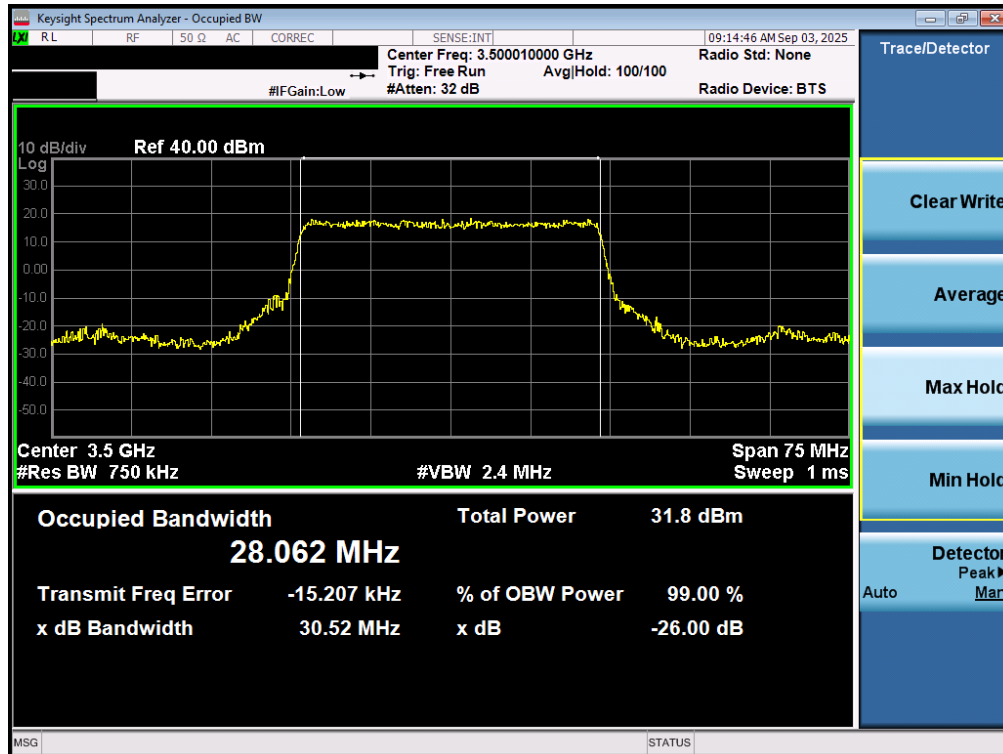


Plot 7-99. Occupied Bandwidth Plot (NR Band n77 - 40MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)



Plot 7-100. Occupied Bandwidth Plot (NR Band n77 - 30MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

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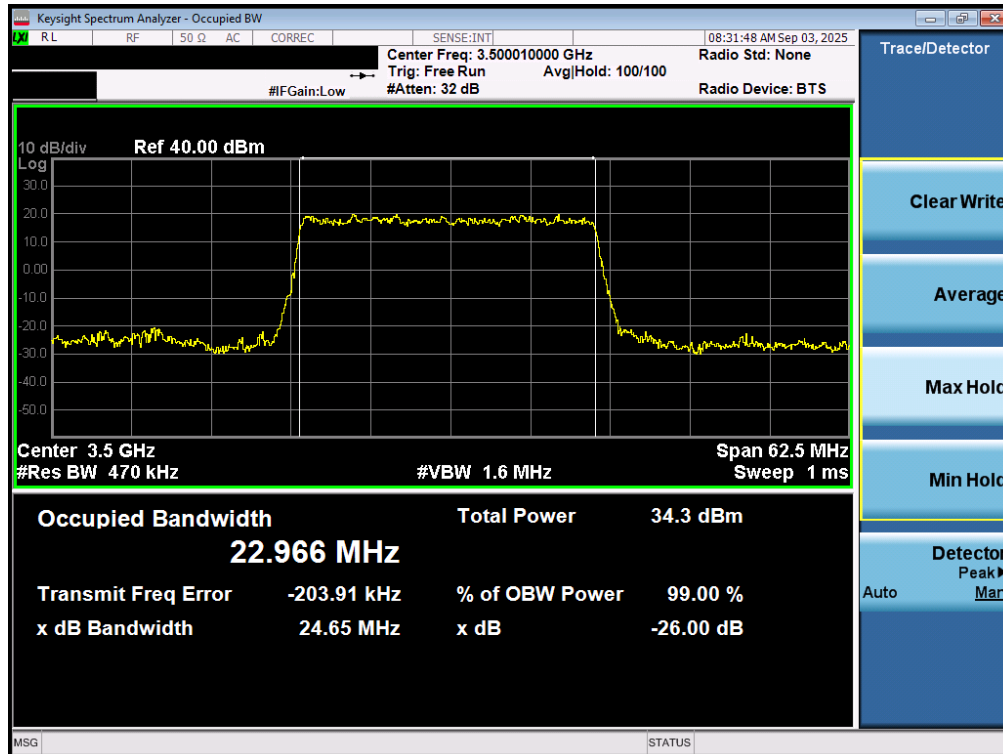


Plot 7-101. Occupied Bandwidth Plot (NR Band n77 - 30MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

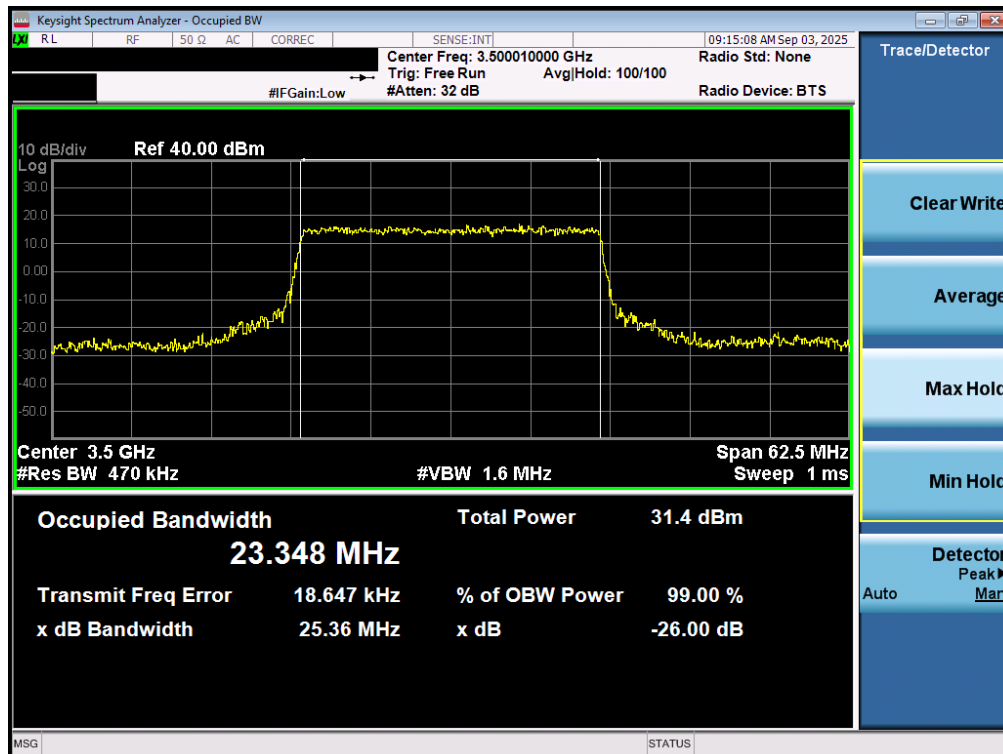


Plot 7-102. Occupied Bandwidth Plot (NR Band n77 - 30MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

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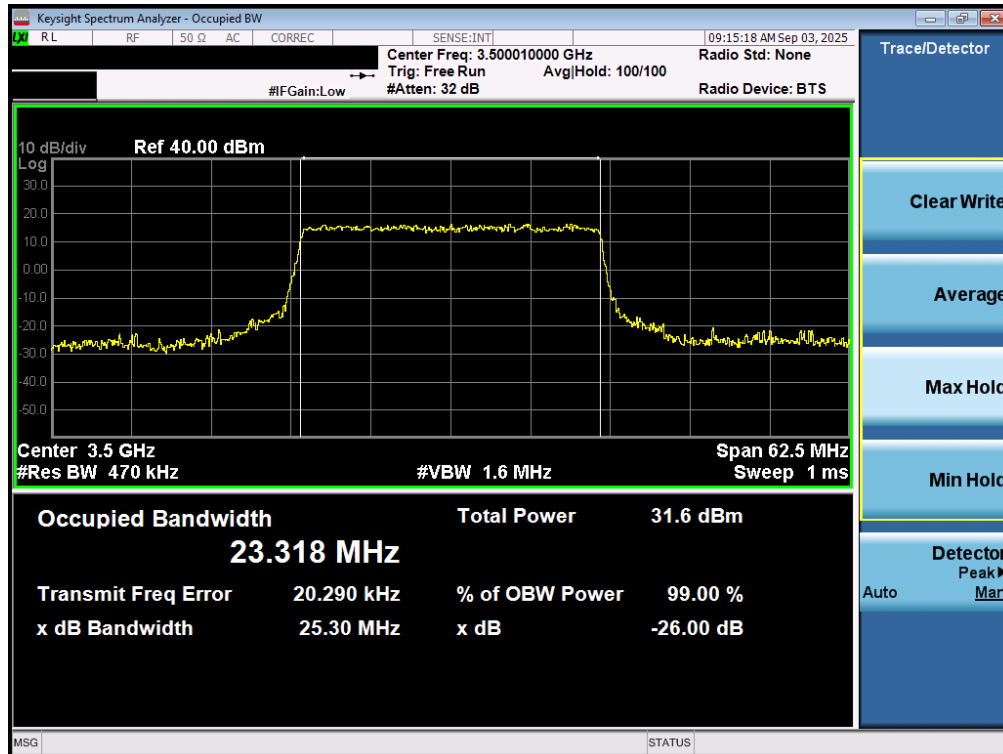


Plot 7-103. Occupied Bandwidth Plot (NR Band n77 - 20MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

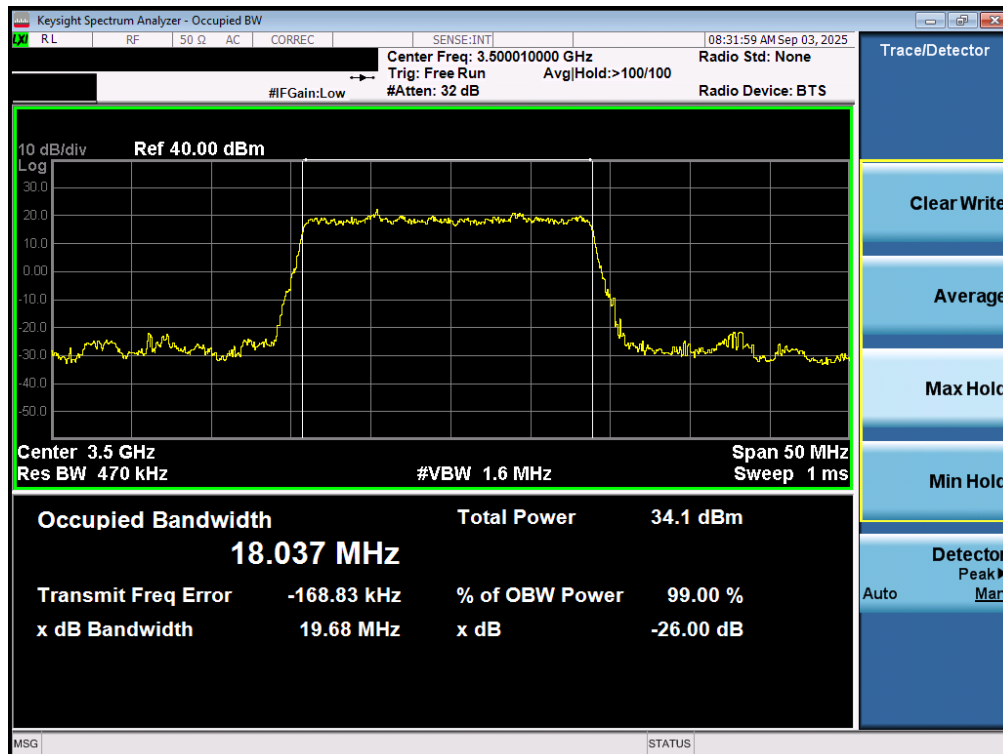


Plot 7-104. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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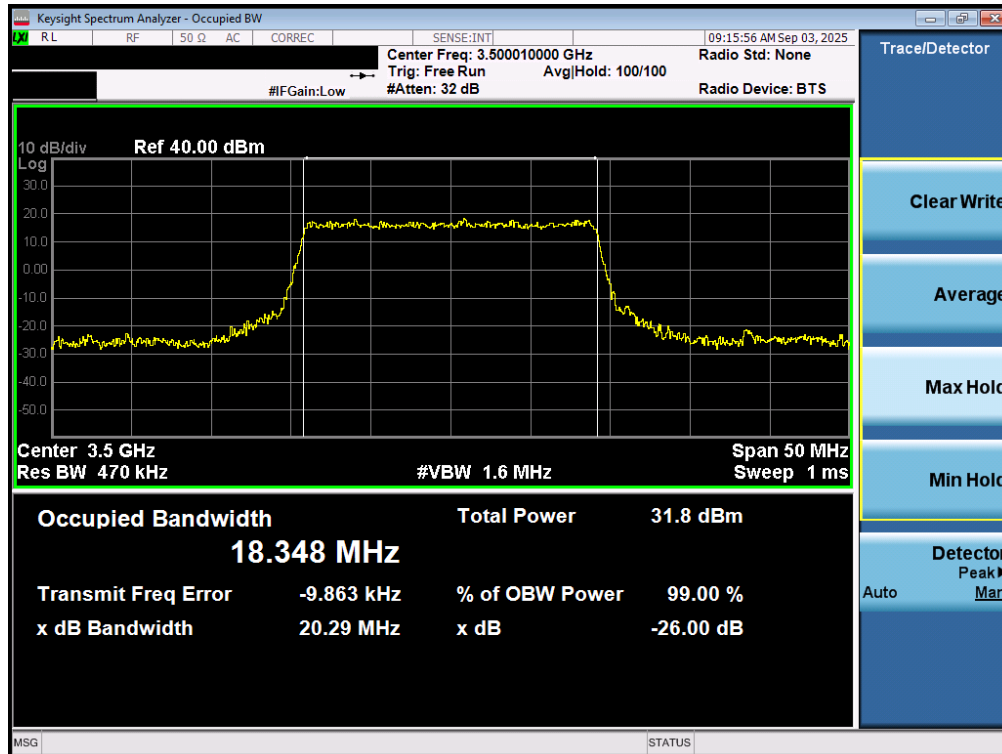


Plot 7-105. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

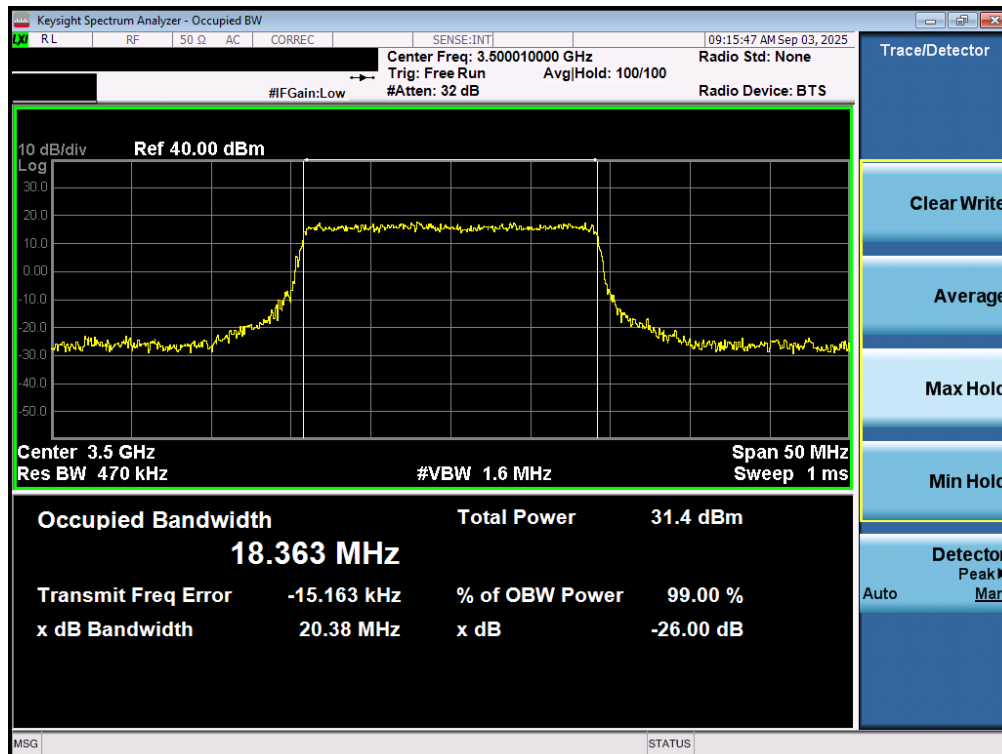


Plot 7-106. Occupied Bandwidth Plot (NR Band n77 - 20MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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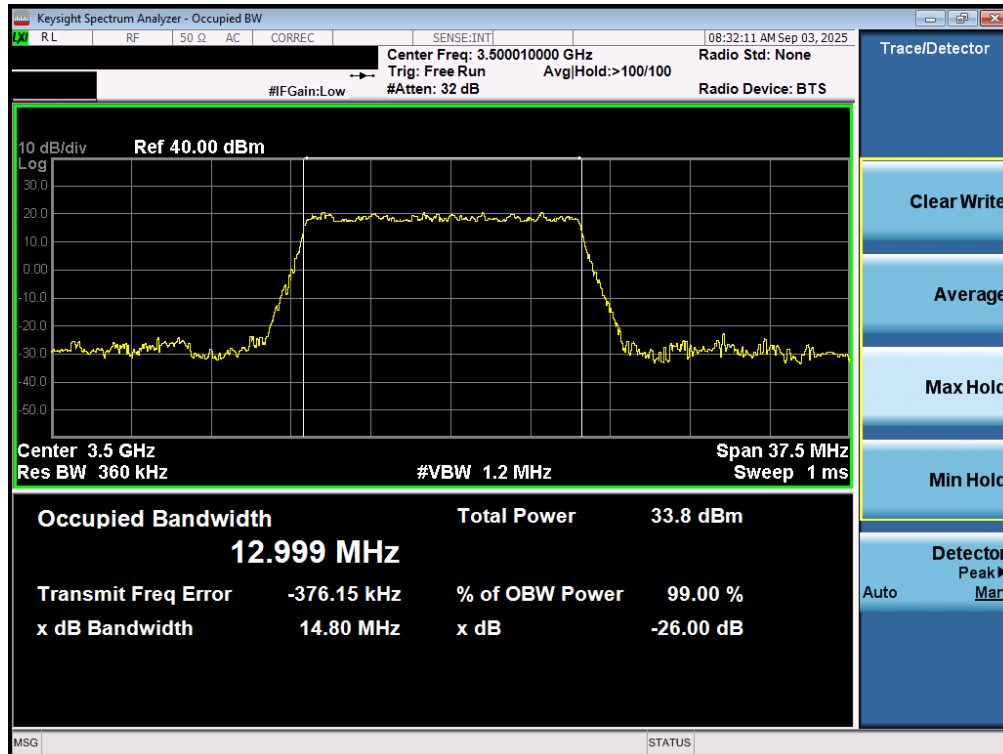


Plot 7-107. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

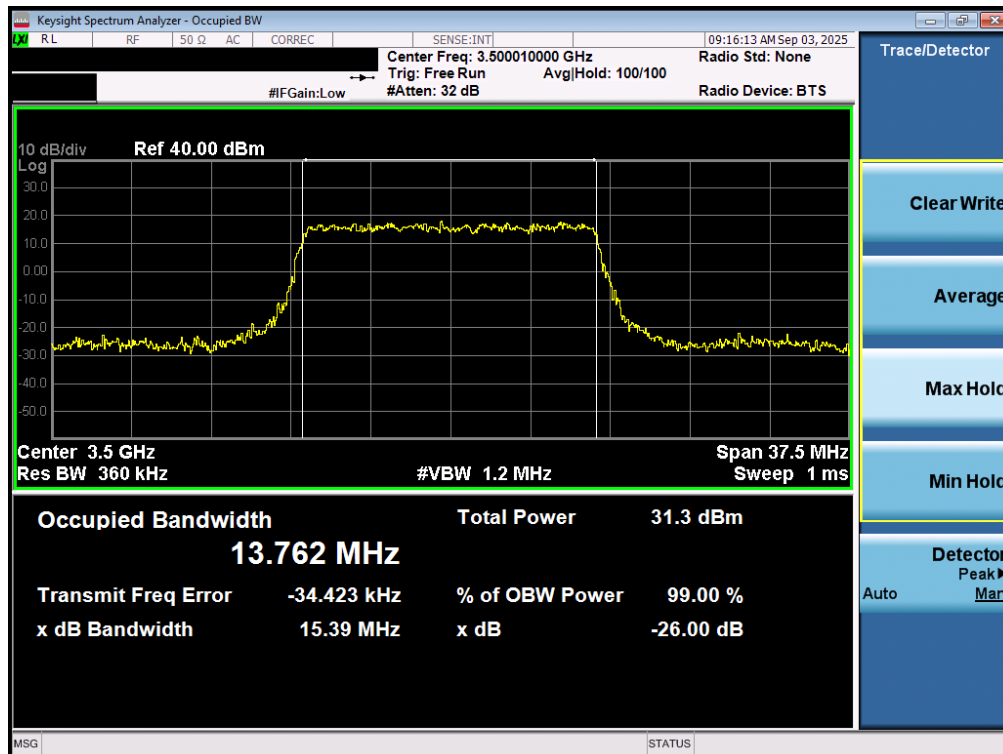


Plot 7-108. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

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Plot 7-109. Occupied Bandwidth Plot (NR Band n77 - 15MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)



Plot 7-110. Occupied Bandwidth Plot (NR Band n77 - 15MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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