

MEASUREMENT REPORT
FCC Part 30 5G mmWave**Applicant Name:**

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

Date of Testing:

3/7/2025 – 4/15/2025

Test Report Issue Date:

4/30/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2502210015-15.A3L

FCC ID:

A3LSMF966U

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-F966U

Additional Model(s):

SM-F966U1

EUT Type:

Portable Handset

FCC Classification:

Part 30 Mobile Transmitter (5GM)

FCC Rule Part(s):

30

Test Procedure(s):

ANSI C63.26-2015, KDB 842590 D01 v01r03

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

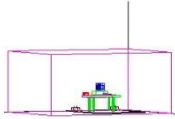


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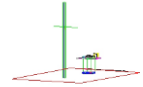
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							Max Power [W]	Max Power [dBm]	
Ant-1	NR-n258-R1	50	24275 - 24425	1	QPSK	SISO	0.612	27.87	45M4G7D
					QPSK	2Tx	1.945	32.89	45M4G7D
					$\pi/2$ BPSK	2Tx	1.959	32.92	45M3G7D
					16QAM	2Tx	1.774	32.49	45M5W7D
					64QAM	2Tx	0.957	29.81	45M3W7D
				2	QPSK	2Tx	1.135	30.55	94M9G7D
					$\pi/2$ BPSK	2Tx	1.167	30.67	95M0G7D
					16QAM	2Tx	1.019	30.08	94M7W7D
					64QAM	2Tx	0.432	26.35	95M0W7D
				3	QPSK	2Tx	0.594	27.74	145MG7D
					$\pi/2$ BPSK	2Tx	0.581	27.64	145MG7D
					16QAM	2Tx	0.471	26.73	145MW7D
					64QAM	2Tx	0.286	24.56	145MW7D
				4	QPSK	2Tx	0.565	27.52	194MG7D
					$\pi/2$ BPSK	2Tx	0.573	27.58	195MG7D
					16QAM	2Tx	0.440	26.43	194MW7D
					64QAM	2Tx	0.265	24.24	195MW7D
		100	24300 - 24400	1	QPSK	SISO	0.608	27.84	95M4G7D
					QPSK	2Tx	1.914	32.82	95M4G7D
					$\pi/2$ BPSK	2Tx	1.945	32.89	91M4G7D
					16QAM	2Tx	1.914	32.82	95M3W7D
					64QAM	2Tx	0.927	29.67	95M3W7D
				2	QPSK	2Tx	0.959	29.82	195MG7D
					$\pi/2$ BPSK	2Tx	0.948	29.77	191MG7D
					16QAM	2Tx	0.857	29.33	195MW7D
					64QAM	2Tx	0.361	25.58	195MW7D

EUT Overview (Band n258-R1)

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Antenna	Band	Bandwidth [MHz]	Tx Frequency [MHz]	CCs Active	Modulation	Mode	EIRP		Emission Designator
							Max Power [W]	Max Power [dBm]	
Ant-1	NR-n258-R2	50	24775 - 25225	1	QPSK	SISO	0.665	28.23	46M4G7D
					QPSK	2Tx	2.173	33.37	46M4G7D
					$\pi/2$ BPSK	2Tx	2.143	33.31	46M1G7D
					16QAM	2Tx	1.919	32.83	46M2W7D
					64QAM	2Tx	0.948	29.77	45M8W7D
				2	QPSK	2Tx	1.384	31.41	94M6G7D
					$\pi/2$ BPSK	2Tx	1.387	31.42	94M9G7D
					16QAM	2Tx	1.245	30.95	94M9W7D
					64QAM	2Tx	0.546	27.37	94M6W7D
				3	QPSK	2Tx	0.760	28.81	145MG7D
					$\pi/2$ BPSK	2Tx	0.755	28.78	145MG7D
					16QAM	2Tx	0.611	27.86	145MW7D
					64QAM	2Tx	0.375	25.74	144MW7D
				4	QPSK	2Tx	0.774	28.89	194MG7D
					$\pi/2$ BPSK	2Tx	0.764	28.83	194MG7D
					16QAM	2Tx	0.601	27.79	194MW7D
					64QAM	2Tx	0.373	25.72	194MW7D
		100	24800 - 25200	1	QPSK	SISO	0.667	28.24	95M5G7D
					QPSK	2Tx	2.113	33.25	95M5G7D
					$\pi/2$ BPSK	2Tx	2.173	33.37	91M5G7D
					16QAM	2Tx	1.862	32.70	95M1W7D
					64QAM	2Tx	1.050	30.21	95M2W7D
				2	QPSK	2Tx	1.318	31.20	195MG7D
					$\pi/2$ BPSK	2Tx	1.315	31.19	191MG7D
					16QAM	2Tx	1.186	30.74	195MW7D
					64QAM	2Tx	0.531	27.25	196MW7D
				3	QPSK	2Tx	0.735	28.66	297MG7D
					$\pi/2$ BPSK	2Tx	0.721	28.58	293MG7D
					16QAM	2Tx	0.600	27.78	296MW7D
					64QAM	2Tx	0.370	25.68	297MW7D
				4	QPSK	2Tx	0.745	28.72	395MG7D
					$\pi/2$ BPSK	2Tx	0.745	28.72	392MG7D
					16QAM	2Tx	0.586	27.68	394MW7D
					64QAM	2Tx	0.362	25.59	395MW7D

EUT Overview (Band n258-R2)

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Antenna	Band	Bandwidth [MHz]	Tx Frequency [MHz]	CCs Active	Modulation	Mode	EIRP		Emission Designator
							Max Power [W]	Max Power [dBm]	
Ant-1	NR-n261	50	27525 - 28325	1	QPSK	SISO	1.247	30.96	45M3G7D
					QPSK	2Tx	2.735	34.37	45M3G7D
					$\pi/2$ BPSK	2Tx	2.786	34.45	44M9G7D
					16QAM	2Tx	2.564	34.09	45M3W7D
					64QAM	2Tx	1.242	30.94	44M8W7D
				2	QPSK	2Tx	1.603	32.05	94M3G7D
					$\pi/2$ BPSK	2Tx	1.603	32.05	94M4G7D
					16QAM	2Tx	1.416	31.51	94M3W7D
					64QAM	2Tx	0.611	27.86	93M9W7D
				3	QPSK	2Tx	0.830	29.19	144MG7D
					$\pi/2$ BPSK	2Tx	0.838	29.23	144MG7D
					16QAM	2Tx	0.664	28.22	144MW7D
					64QAM	2Tx	0.412	26.15	143MW7D
				4	QPSK	2Tx	0.836	29.22	194MG7D
					$\pi/2$ BPSK	2Tx	0.824	29.16	194MG7D
					16QAM	2Tx	0.647	28.11	193MW7D
					64QAM	2Tx	0.394	25.96	193MW7D
		100	27550 - 28300	1	QPSK	SISO	1.300	31.14	95M6G7D
					QPSK	2Tx	2.944	34.69	95M6G7D
					$\pi/2$ BPSK	2Tx	2.931	34.67	91M0G7D
					16QAM	2Tx	2.606	34.16	95M5W7D
					64QAM	2Tx	1.291	31.11	95M0W7D
				2	QPSK	2Tx	1.479	31.70	195MG7D
					$\pi/2$ BPSK	2Tx	1.479	31.70	191MG7D
					16QAM	2Tx	1.324	31.22	195MW7D
					64QAM	2Tx	0.581	27.64	194MW7D
				3	QPSK	2Tx	0.796	29.01	294MG7D
					$\pi/2$ BPSK	2Tx	0.793	28.99	290MG7D
					16QAM	2Tx	0.649	28.12	294MW7D
					64QAM	2Tx	0.400	26.02	294MW7D
				4	QPSK	2Tx	0.824	29.16	396MG7D
					$\pi/2$ BPSK	2Tx	0.836	29.22	392MG7D
					16QAM	2Tx	0.665	28.23	396MW7D
					64QAM	2Tx	0.406	26.09	398MW7D

EUT Overview (Band n261)

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Antenna	Band	Bandwidth [MHz]	Tx Frequency [MHz]	CCs Active	Modulation	Mode	EIRP		Emission Designator
							Max Power [W]	Max Power [dBm]	
Ant-1	NR-n260	50	37025 - 39975	1	QPSK	SISO	1.094	30.39	46M7G7D
					QPSK	2Tx	1.466	31.66	46M7G7D
					$\pi/2$ BPSK	2Tx	1.489	31.73	46M3G7D
					16QAM	2Tx	1.406	31.48	46M6W7D
					64QAM	2Tx	0.752	28.76	46M9W7D
				2	QPSK	2Tx	0.861	29.35	97M2G7D
					$\pi/2$ BPSK	2Tx	0.895	29.52	96M5G7D
					16QAM	2Tx	0.791	28.98	97M2W7D
					64QAM	2Tx	0.350	25.44	97M8W7D
				3	QPSK	2Tx	0.520	27.16	148MG7D
					$\pi/2$ BPSK	2Tx	0.525	27.20	146MG7D
					16QAM	2Tx	0.413	26.16	148MW7D
				4	64QAM	2Tx	0.260	24.15	146MW7D
					QPSK	2Tx	0.462	26.65	196MG7D
					$\pi/2$ BPSK	2Tx	0.469	26.71	197MG7D
					16QAM	2Tx	0.372	25.70	196MW7D
					64QAM	2Tx	0.238	23.76	196MW7D
	100	100	37050 - 39950	1	QPSK	SISO	1.084	30.35	91M0G7D
					QPSK	2Tx	1.486	31.72	91M0G7D
					$\pi/2$ BPSK	2Tx	1.479	31.70	91M1G7D
					16QAM	2Tx	0.971	29.87	95M2W7D
					64QAM	2Tx	0.483	26.84	94M8W7D
				2	QPSK	2Tx	0.953	29.79	195MG7D
					$\pi/2$ BPSK	2Tx	0.946	29.76	192MG7D
					16QAM	2Tx	0.834	29.21	195MW7D
					64QAM	2Tx	0.364	25.61	197MW7D
				3	QPSK	2Tx	0.507	27.05	295MG7D
					$\pi/2$ BPSK	2Tx	0.504	27.02	293MG7D
					16QAM	2Tx	0.405	26.07	295MW7D
					64QAM	2Tx	0.254	24.04	294MW7D
				4	QPSK	2Tx	0.452	26.55	394MG7D
					$\pi/2$ BPSK	2Tx	0.469	26.71	394MG7D
					16QAM	2Tx	0.374	25.73	394MW7D
					64QAM	2Tx	0.236	23.73	393MW7D

EUT Overview (Band n260)

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMF966U**. The test data contained in this report pertains only to the emissions due to the EUT's 5G mmWave function.

The EUT contains a patch antenna, referred to herein as Ant1 (J-Patch). The antennas is comprised of two separate antenna feeds - one for horizontal and one for vertical polarization.

The EUT supports both 50MHz bandwidth and 100MHz bandwidth. The EUT supports 1CC for 50MHz bandwidth and upto 4CC for 100MHz bandwidth. The table below indicates the supported bandwidths and component carriers for the Frequency ranges tested.

# CC's	BW (MHz)	Total CC BW (MHz)	Channel	24.25 - 24.45GHz (n258-R1)	24.75 - 25.25GHz (n258-R2)	27.5 - 28.35GHz (n261)	37 - 40GHz (n260)
1CC	50	50	Low	x	x	x	x
			Mid	x	x	x	x
			High	x	x	x	x
	100	100	Low	x	x	x	x
			Mid	x	x	x	x
			High	x	x	x	x
2CC	50	100	Low	-	-	-	-
			Mid	-	-	-	-
			High	-	-	-	-
	100	200	Low	-	x	x	x
			Mid	x	x	x	x
			High	-	x	x	x
3CC	50	150	Low	-	-	-	-
			Mid	-	-	-	-
			High	-	-	-	-
	100	300	Low	-	x	x	x
			Mid	-	x	x	x
			High	-	x	x	x
4CC	50	200	Low	-	-	-	-
			Mid	-	-	-	-
			High	-	-	-	-
	100	400	Low	-	-	x	x
			Mid	-	-	x	x
			High	-	-	x	x

The EUT supports a subcarrier spacing (SCS) of 120kHz with two transmission schemes, CP-OFDM and DFT-s-OFDM, with pi/2-BPSK, QPSK, 16-QAM, and 64-QAM modulations. Different Beam IDs are supported, each corresponding to a different position in space for each antenna. During testing, FTM (Factory Test Mode) was used to operate the transmitter. MIMO operation was achieved by enabling two Beam IDs at the same time: one is from the list of H Beam IDs and other is from the list of V Beam IDs.

Test Device Serial No.: 0559M, 1545M

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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 KDB 842590 D01 v01r03 and ANSI C63.26-2015. See Section 7.0 of this test report for a description of the radiated tests.

EIRP Simulation data for all Beam IDs was used to help determine the worst case Beam ID for SISO operation and Beam ID pair for 2Tx (DFT-s-OFDM) and MIMO (CP-OFDM) operation. Several additional Beam ID's were also investigated to determine the Beam ID's producing the highest measured EIRP.

All testing was performed using FTM (Factory Test Mode) software at continuous Tx operation. When implemented out in the field, the EUT will operate with a maximum uplink configuration as allowed by the 5G network/carrier. The FTM software was also used for the EUT operation in the EN-DC mode.

While operating in the FR2 band, this device supports anchor band operation with either an LTE carrier or an NR FR1 carrier. Both were investigated during FR2 measurements.

This device supports two configurations: one is with screen open and one is with screen closed. Open, half opened and closed configurations are tested, and the worst case radiated emissions data is shown in this report.

2.4 Software and Firmware

The test was conducted with firmware version F966UOYN0AYC1_SE1 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 Measurement Procedure

The measurement procedures described in the document titled "American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services" (ANSI C63.26-2015) and the guidance provided in KDB 842590 D01 v01r03 were used in the measurement of the EUT.

3.2 Radiated Power and Radiated Spurious Emissions

§30.202, §30.203

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary for radiated emissions measurements in the spurious domain. 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 for measurements above 1GHz.

Radiated power (EIRP) measurements were performed in a full anechoic chamber (FAC) conforming to the site validation requirements of CISPR 16-1-4. Radiated spurious emission measurements from 30MHz - 18GHz were performed in a semi anechoic chamber (SAC) conforming to the site validation requirements of CISPR 16-1-4. A positioner was used to manipulate the EUT through several positions in space by rotating about the roll axis as shown in the figure below. The positioner was mounted on top of a turntable bringing the total EUT height to 1.5m.

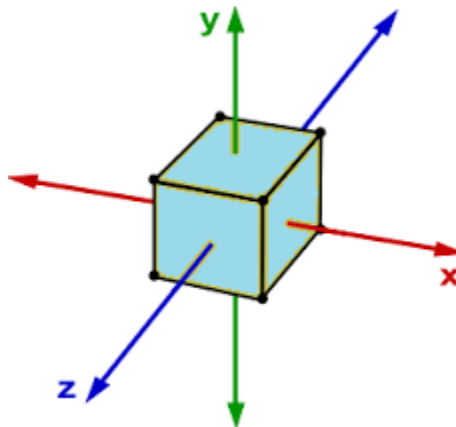


Figure 3-1. Rotation of the EUT Through Three Orthogonal Planes

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The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable. The measurement antenna is in the far field of the EUT per formula $2D^2/\lambda$ where D is the larger between the dimension of the measurement antenna and the transmitting antenna of the EUT. In this case, "D" is the largest dimension of the measurement antenna. The EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

Frequenct Range (GHz)	Wavelenght (cm)	Far Field Distance (m)	Measurement Distance (m)
18-40	0.749	0.54	1.00
40-60	0.500	1.92	2.00
60-90	0.333	1.56	2.00
90-140	0.214	0.82	1.00
140-200	0.150	0.27	1.00

Table 3-1. Far-Field Distance & Measurment Distance per Frequency Range

Radiated power levels are investigated while the receive antenna was rotated through all angles to determine the worst case polarization/positioning. It was determined that H=0 degree and V=90 degree are the worst case positions when the EUT was transmitting horizontally and vertically polarized beams, respectively.

The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration bandwidth set to the emissions' occupied bandwidth. The EIRP is calculated from the raw power level measured with the spectrum analyzer using the formulas shown below.

Effective Isotropic Radiated Power Sample Calculation

The measured e.i.r.p is converted to E-field in V/m. Then, the distance correction is applied before converting back to calculated e.i.r.p, as explained in KDB 971168 D01.

$$\begin{aligned}
 \text{Field Strength [dB}\mu\text{V/m]} &= \text{Measured Value [dBm]} + \text{AFCL [dB/m]} + 107 \\
 &= -32.74 \text{ dBm} + (40.7 \text{ dB/m} + 8.78 \text{ dB}) + 107 = 123.74 \text{ dB}\mu\text{V/m} \\
 &= 10^{(123.74/20)/1000000} = 1.54 \text{ V/m} \\
 \text{e.i.r.p. [dBm]} &= 10 * \log((\text{E-Field} * D_m)^2/30) + 30 \text{ dB} \\
 &= 10 * \log((1.54 \text{ V/m} * 1.00 \text{ m})^2/30) + 30 \text{ dB} \\
 &= 18.98 \text{ dBm e.i.r.p.}
 \end{aligned}$$

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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 an accredited ISO/IEC 17025 calibration facility. 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
-	ETS-001	EMC Cable and Switch System	4/2/2024	Annual	4/2/2025	ETS-001
-	ETS-002	EMC Cable and Switch System	4/2/2024	Annual	4/2/2025	ETS-002
Carlisle IT	UTiFlex	FAC mmWave UTiFlex 40GHz	2/25/2025	Annual	2/25/2026	232062-001
Carlisle IT	UTiFlex	FAC mmWave UTiFlex 40GHz	2/25/2025	Annual	2/25/2026	234142-001
Agilent	N9030A	PXA Signal Analyzer (44GHz)	4/9/2024	Annual	4/9/2025	MY52350166
Agilent	N9030A	50GHz PXA Signal Analyzer	4/23/2024	Annual	4/23/2025	US51350301
Narda	180-422-KF	Horn (Small)	10/9/2024	Biennial	10/9/2026	U157403-01
EMCO	3116	Horn Antenna (18-40GHz)	7/5/2023	Biennial	7/5/2025	9203-2178
MI-WAVE	261F-25/387	HORN ANTENNA	1/29/2025	Biennial	1/29/2027	30416
MI-WAVE	261G-25/387	HORN ANTENNA	1/29/2025	Biennial	1/29/2027	30417
MI-WAVE	261E-25/387	HORN ANTENNA	1/29/2025	Biennial	1/29/2027	30415
MI-WAVE	261U-25/383	HORN ANTENNA	1/29/2025	Biennial	1/29/2027	30414
Espec	ESX-2CA	Environmental Chamber	7/5/2023	Annual	7/5/2025	17620
Sunol	DRH-118	Horn Antenna (1-18GHz)	2/21/2024	Biennial	2/21/2026	A050307
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Virginia Diodes Inc	SAX680	SAX Module (140 - 220GHz)	1/29/2025	Biennial	1/29/2027	SAX680
Virginia Diodes Inc	SAX679	SAX Module (90 - 140GHz)	1/29/2025	Biennial	1/29/2027	SAX679
Virginia Diodes Inc	SAX682	SAX Module (60 - 90GHz)	1/29/2025	Biennial	1/29/2027	SAX682
Virginia Diodes Inc	SAX681	SAX Module (40 - 60GHz)	1/29/2025	Biennial	1/29/2027	SAX681

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.

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6.0 SAMPLE EMISSION DESIGNATORS

Emission Designator

$\pi/2$ BPSK/ QPSK Modulation

Emission Designator = 800MG7D

BW = 800 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 802MW7D

BW = 802 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: A3LSMF966U
 FCC Classification: Part 30 Mobile Transmitter (5GM)
 Mode(s): TDD

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	Occupied Bandwidth	N/A	RADIATED	PASS	Section 7.2
2.1046, 30.202	Equivalent Isotropic Radiated Power	43dBm		PASS	Section 7.3
2.1051, 30.203	Spurious Emissions	-13dBm/MHz for all out-of-band emissions		PASS	Section 7.4
2.1051, 30.203	Out-of-Band Emissions at the Band Edge	-13dBm/MHz for all out-of-band emissions, -5dBm/MHz from the band edge up to 10% of the channel BW		PASS	Section 7.5
2.1051, 30.203(d)(2)	Special Out-of-Band Requirements for 24GHz Bands	-35dBW/200MHz (Phase 2)		PASS	Section 7.5
2.1055	Frequency Stability	Fundamental emissions stay within authorized frequency block		PASS	Section 7.6

Table 7-1. Summary of Radiated Test Results

Notes:

- 1) All modes of operation and modulations were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) This report contains references to "n258-R1" and "n258-R2". These correspond to n258 Range 1, operating from 24.25 - 24.45GHz, and n258 Range 2, operating from 24.75 - 25.25GHz, respectively, as defined in Part 30.4(a).
- 3) Per 2.1057(a)(2), spurious emissions were investigated up to 100GHz for n258-R1, n258-R2 and n261. For n260, spurious emissions were investigated up to 200GHz.
- 4) The radiated RF output power and all out-of-band emissions in the spurious domain are evaluated to the EIRP limits.

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- 5) "CC" refers to "Component Carriers".
- 6) Beam IDs were chosen based on which Beam ID produces the highest EIRP during EIRP simulation.
- 7) All testing was performed using FTM (Factory Test Mode) software at continuous Tx operation (100% duty cycle).
- 8) The CP-OFDM and DFT-s-OFDM transmission schemes were investigated fully for each test type and only the worst case data is included.
- 9) For the evaluation of this mobile device, the Phase 2 limit is applied to demonstrate compliance to the 30.203(d)(2) requirement.

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7.2 Occupied Bandwidth

§2.1049

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 5.4.3
KDB 842590 D01 v01r03 Section 4.3

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied 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 Notes

1. The EUT supports CP-OFDM and DFT-s-OFDM. OBW was measured for both waveforms and the worst case has been included in the report.

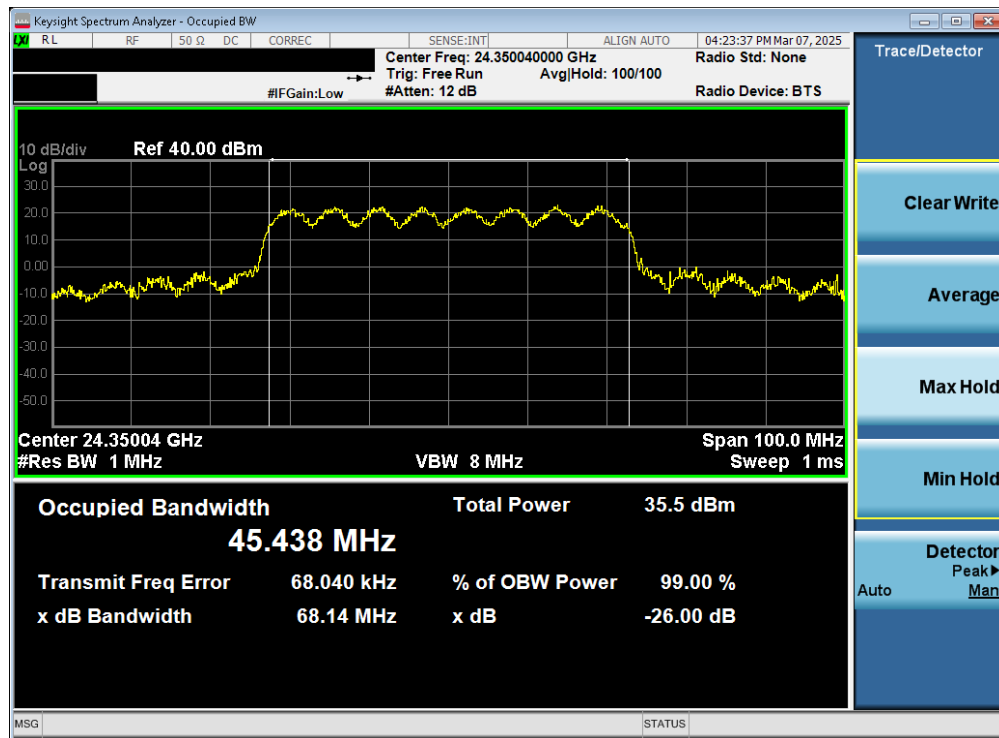
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n258-R1

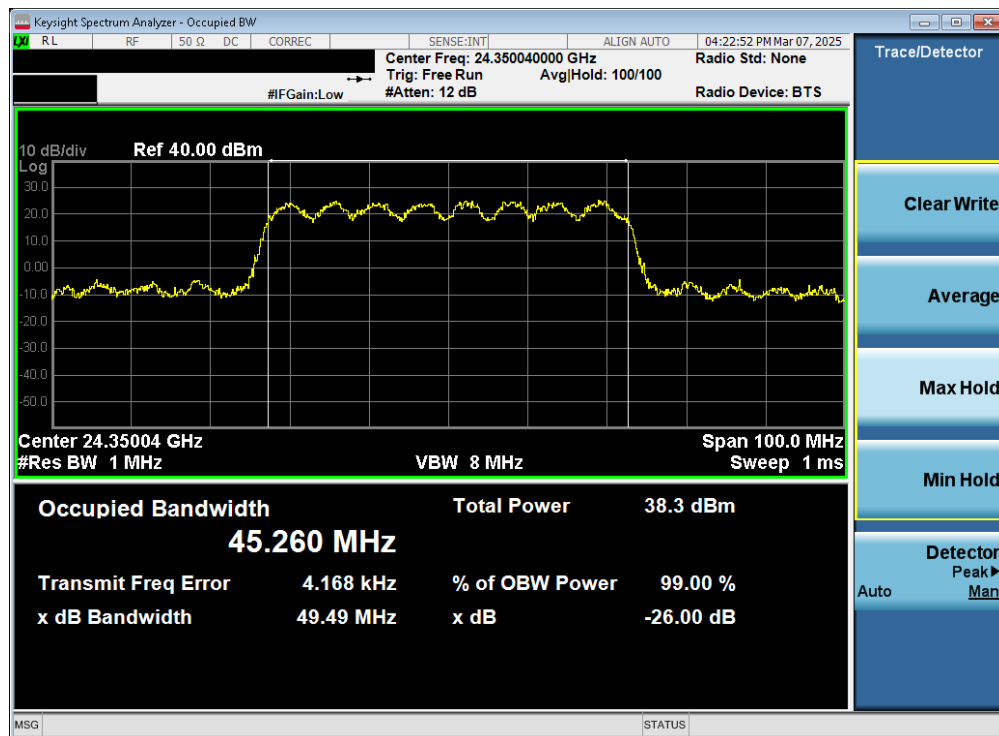
Antenna	Bandwidth [MHz]	CCs Active	Transmission Scheme	Modulation	OBW [MHz]
Ant-1	50	1	CP-OFDM	QPSK	45.44
			DFT-s-OFDM	$\pi/2$ BPSK	45.26
			CP-OFDM	16QAM	45.51
			CP-OFDM	64QAM	45.31
		2	CP-OFDM	QPSK	94.88
			DFT-s-OFDM	$\pi/2$ BPSK	94.97
			CP-OFDM	16QAM	94.71
			CP-OFDM	64QAM	94.99
		3	CP-OFDM	QPSK	144.88
			DFT-s-OFDM	$\pi/2$ BPSK	144.60
			CP-OFDM	16QAM	144.73
			CP-OFDM	64QAM	144.92
		4	CP-OFDM	QPSK	194.43
			DFT-s-OFDM	$\pi/2$ BPSK	194.93
			CP-OFDM	16QAM	194.46
			CP-OFDM	64QAM	194.87
	100	1	CP-OFDM	QPSK	95.38
			DFT-s-OFDM	$\pi/2$ BPSK	91.37
			CP-OFDM	16QAM	95.32
			CP-OFDM	64QAM	95.32
		2	CP-OFDM	QPSK	195.08
			DFT-s-OFDM	$\pi/2$ BPSK	191.39
			CP-OFDM	16QAM	194.86
			CP-OFDM	64QAM	195.46

Table 7-2. Summary of Ant1 Occupied Bandwidths (n258-R1)

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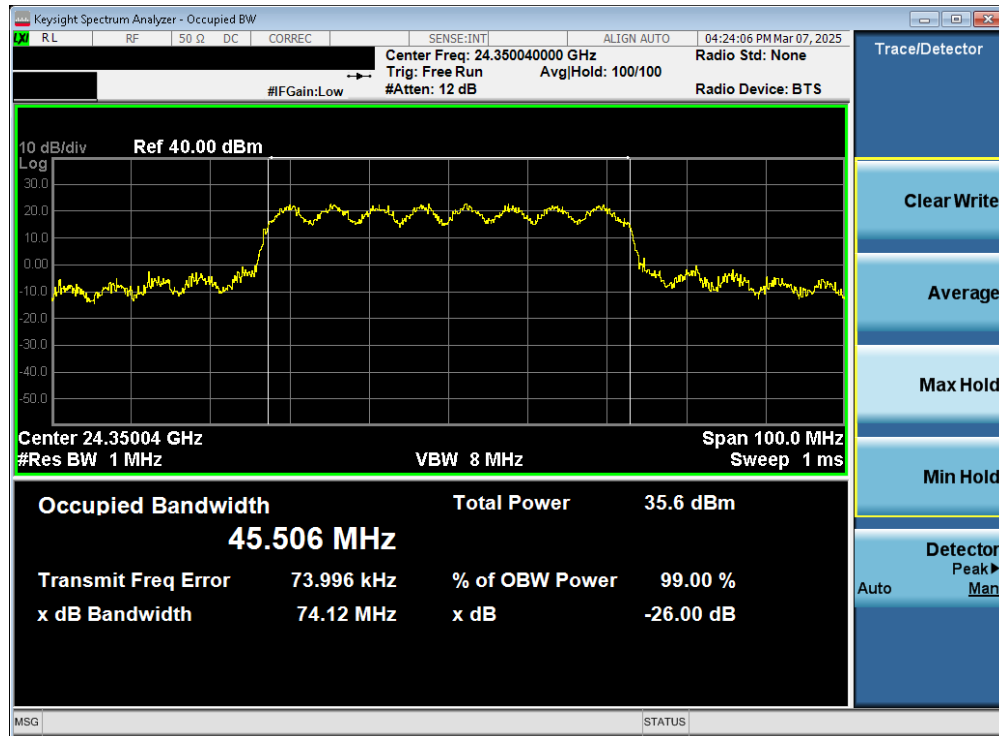


Plot 7-1. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM QPSK– Mid Channel)

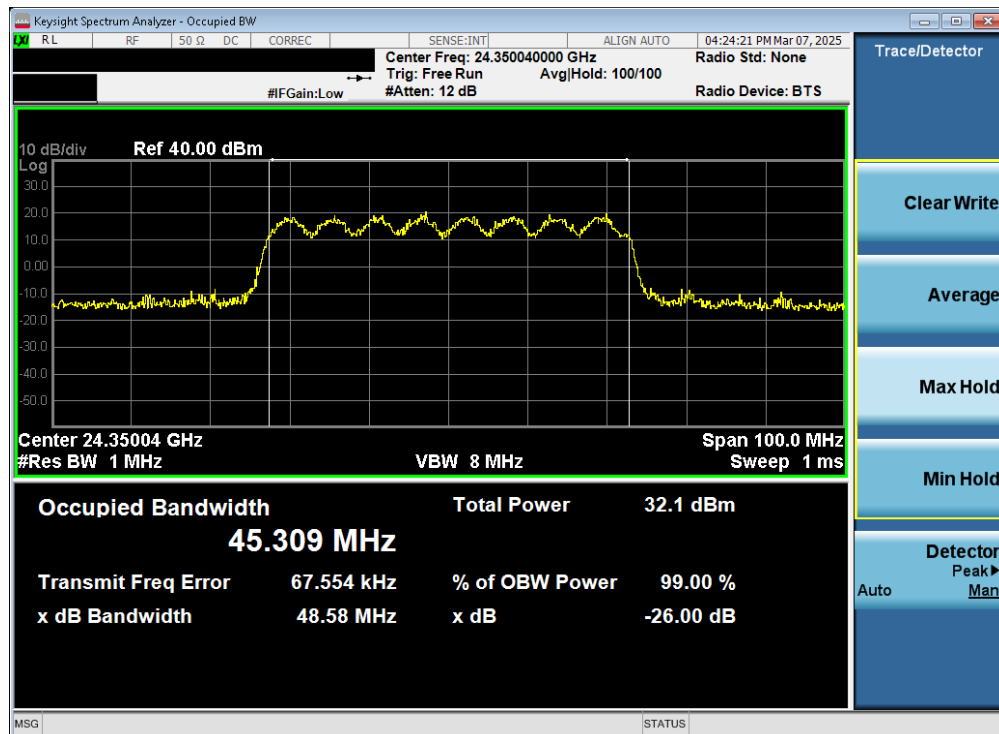


Plot 7-2. Ant1 Occupied Bandwidth Plot (50MHz-1CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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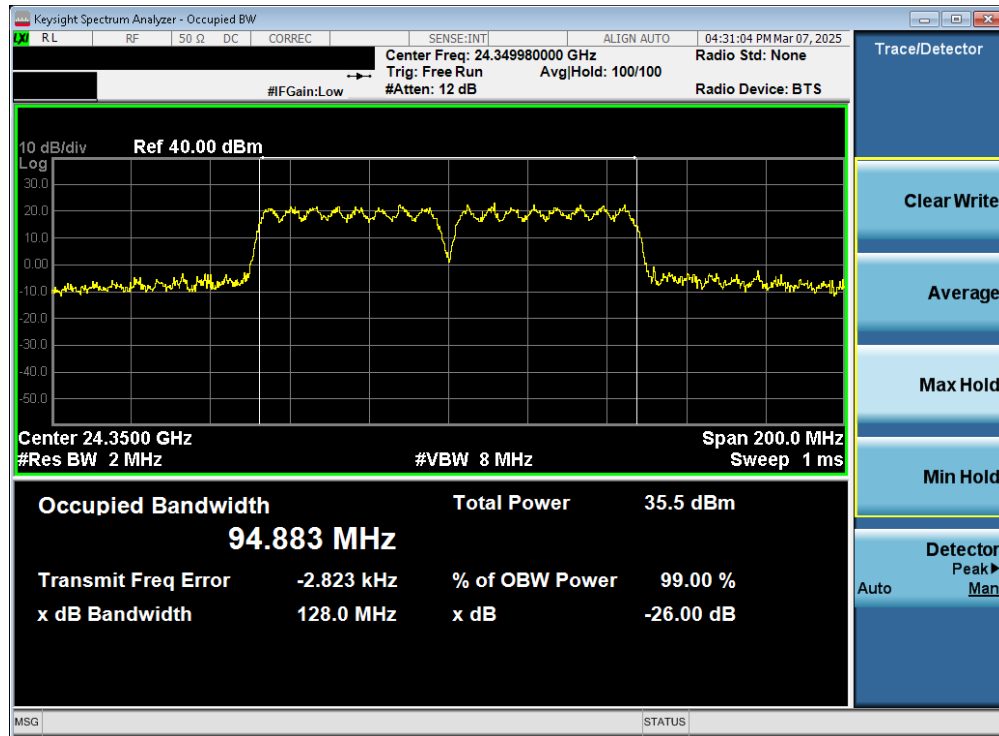


Plot 7-3. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM 16QAM– Mid Channel)

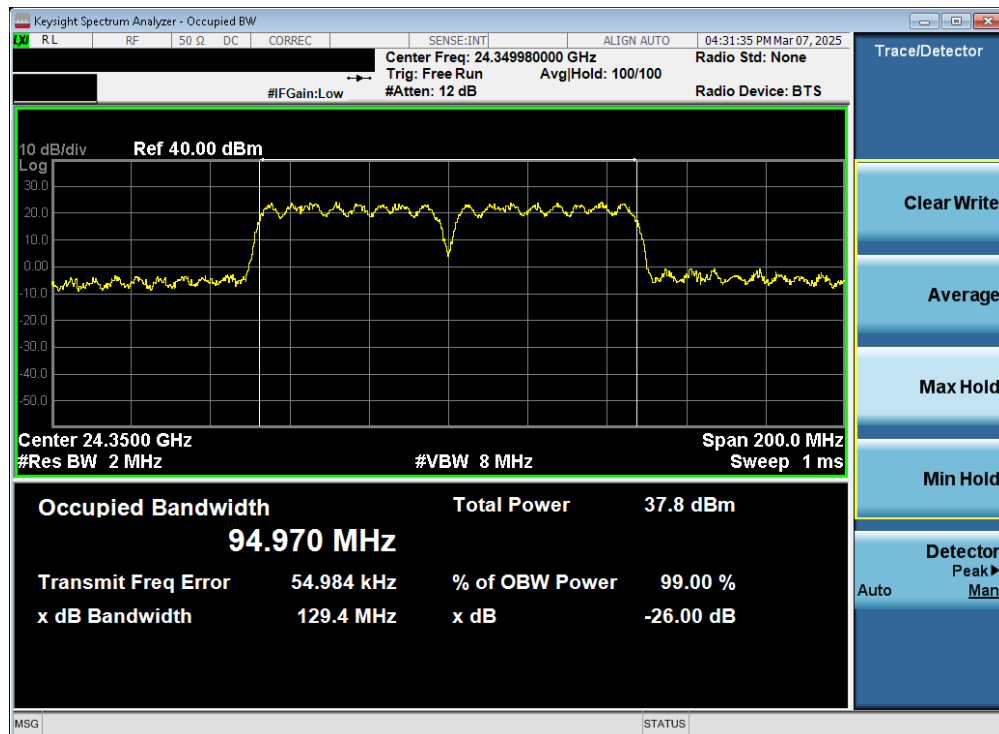


Plot 7-4. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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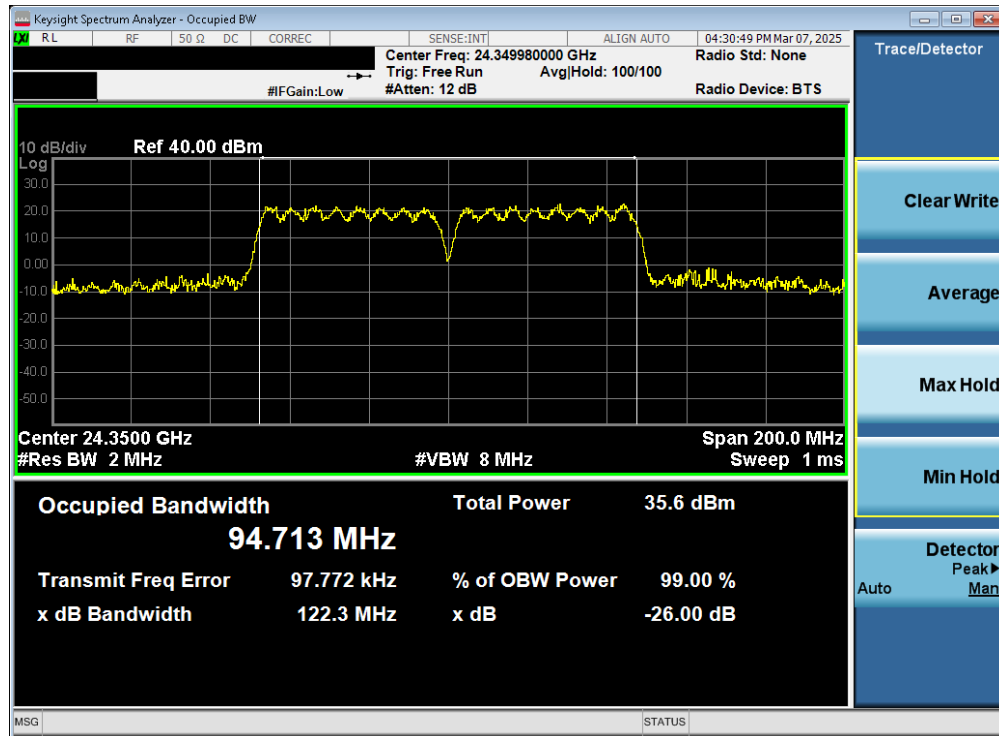


Plot 7-5. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM QPSK– Mid Channel)

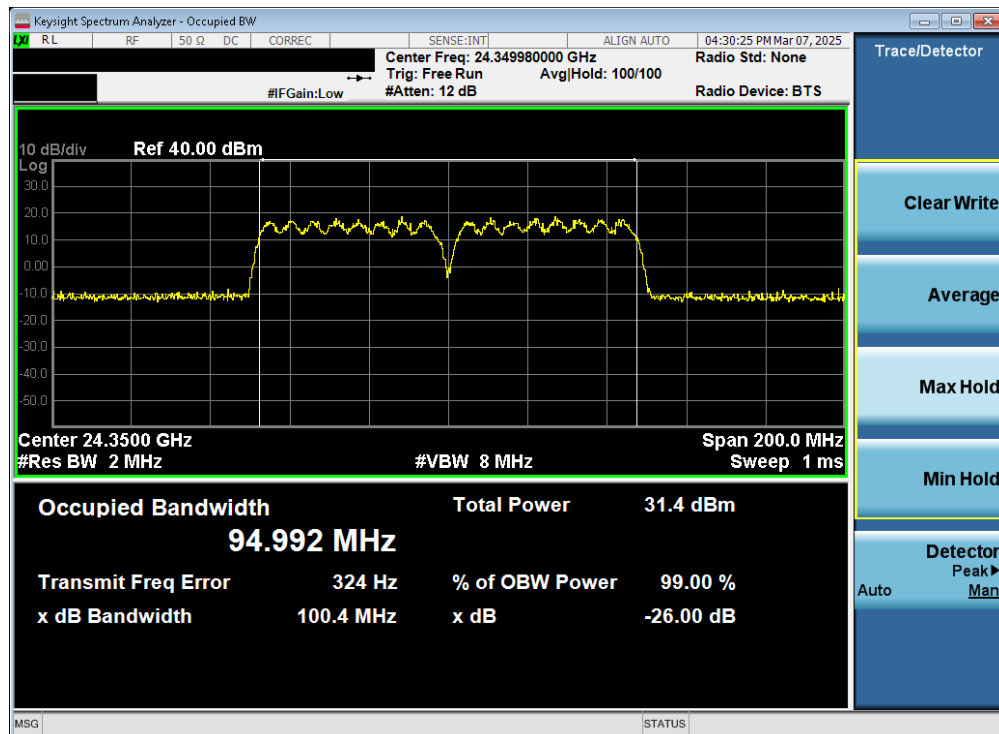


Plot 7-6. Ant1 Occupied Bandwidth Plot (50MHz-2CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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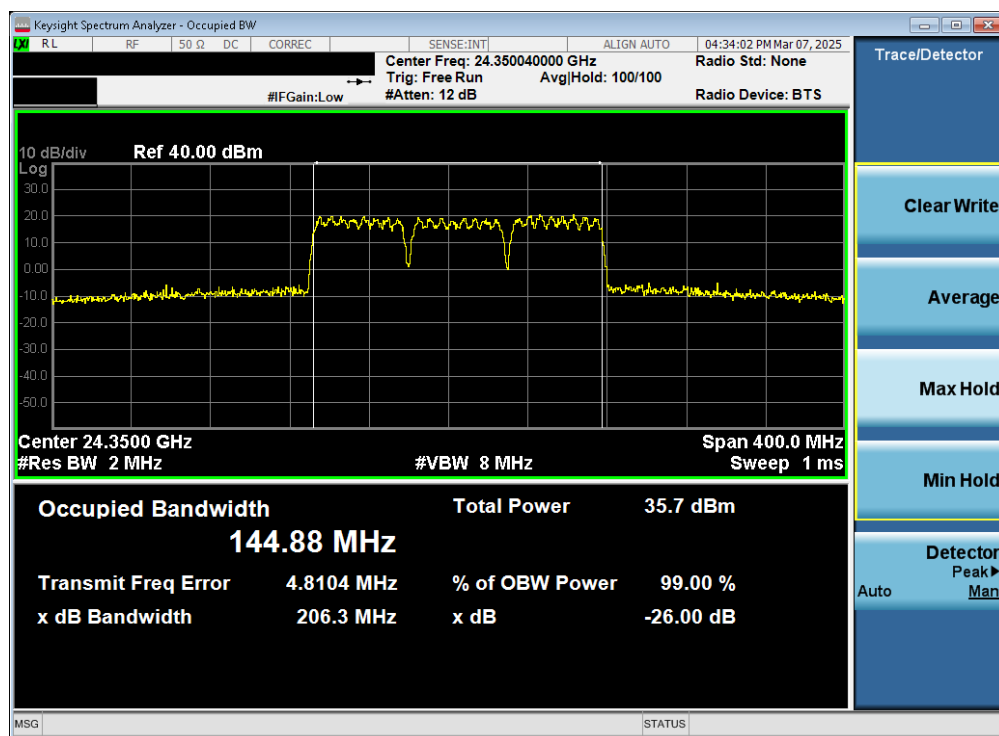


Plot 7-7. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM 16QAM– Mid Channel)

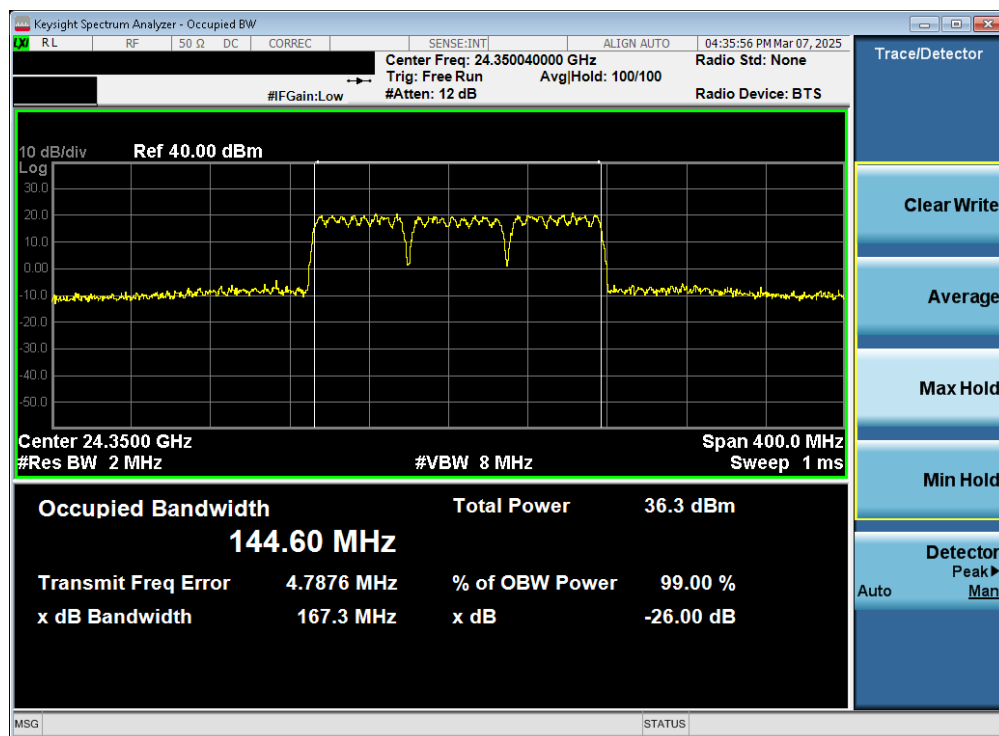


Plot 7-8. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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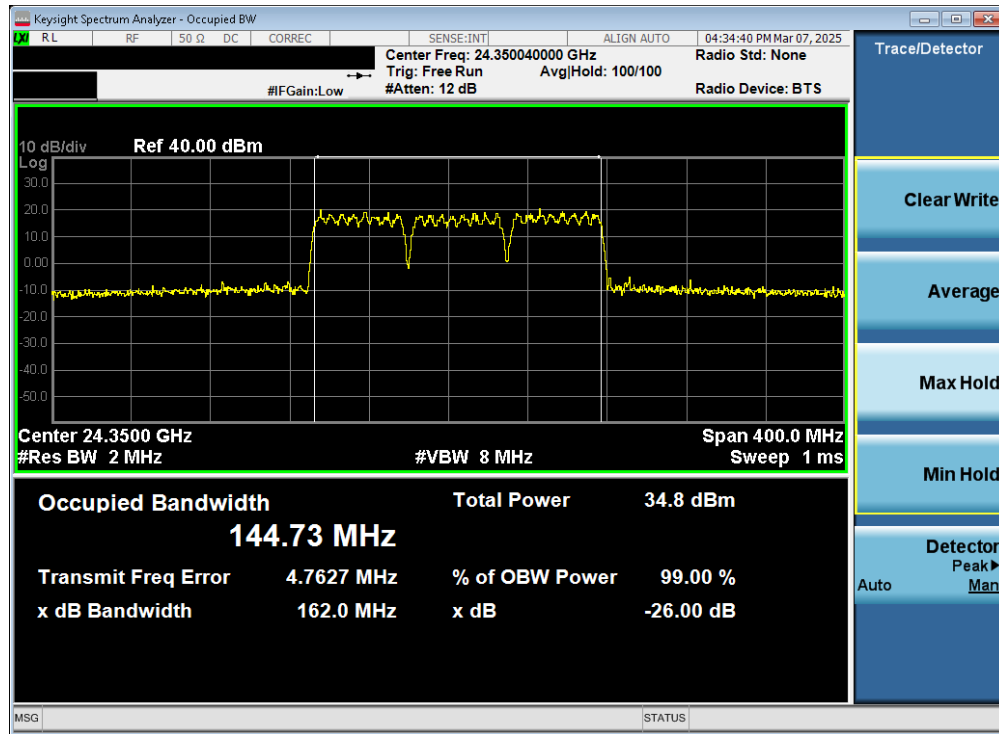


Plot 7-9. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM QPSK– Mid Channel)

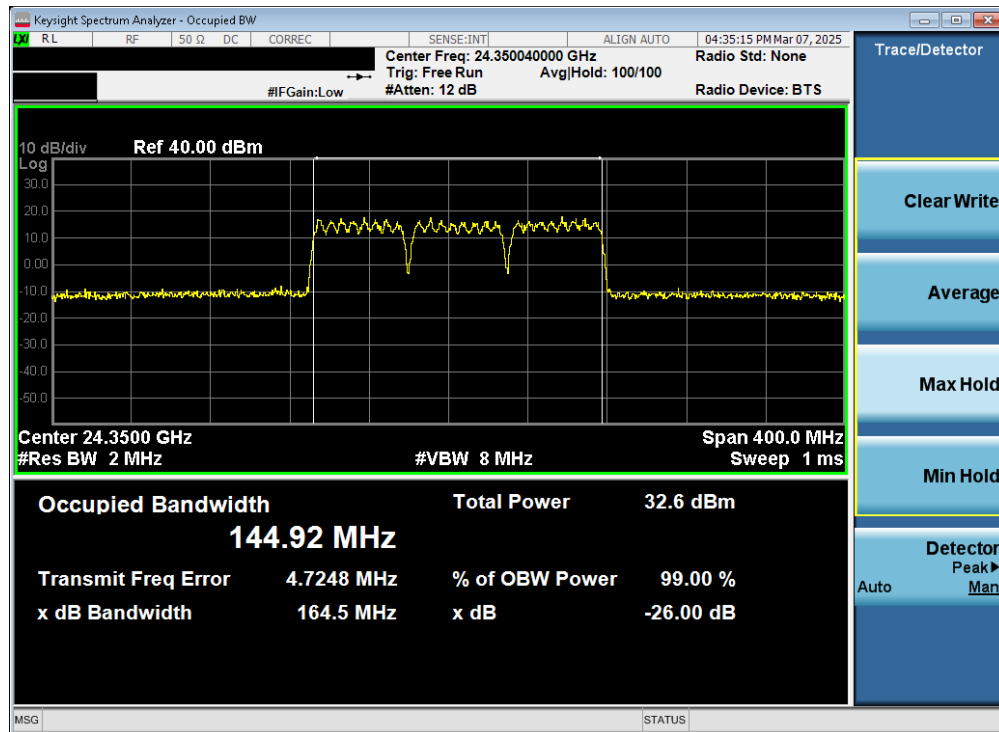


Plot 7-10. Ant1 Occupied Bandwidth Plot (50MHz-3CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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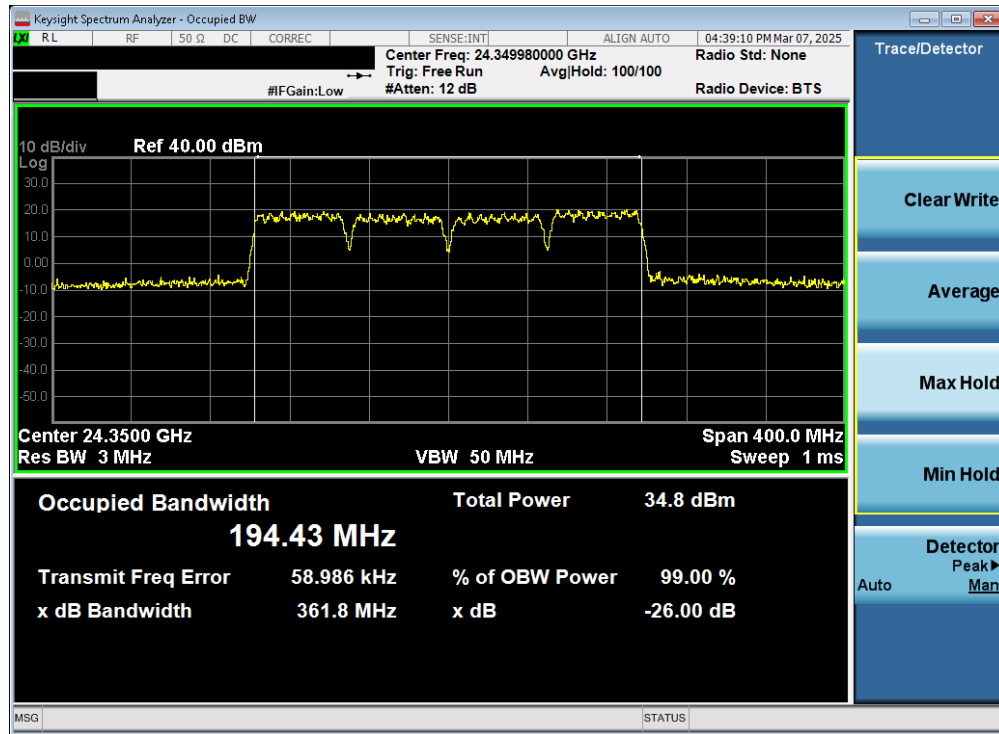


Plot 7-11. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM 16QAM– Mid Channel)

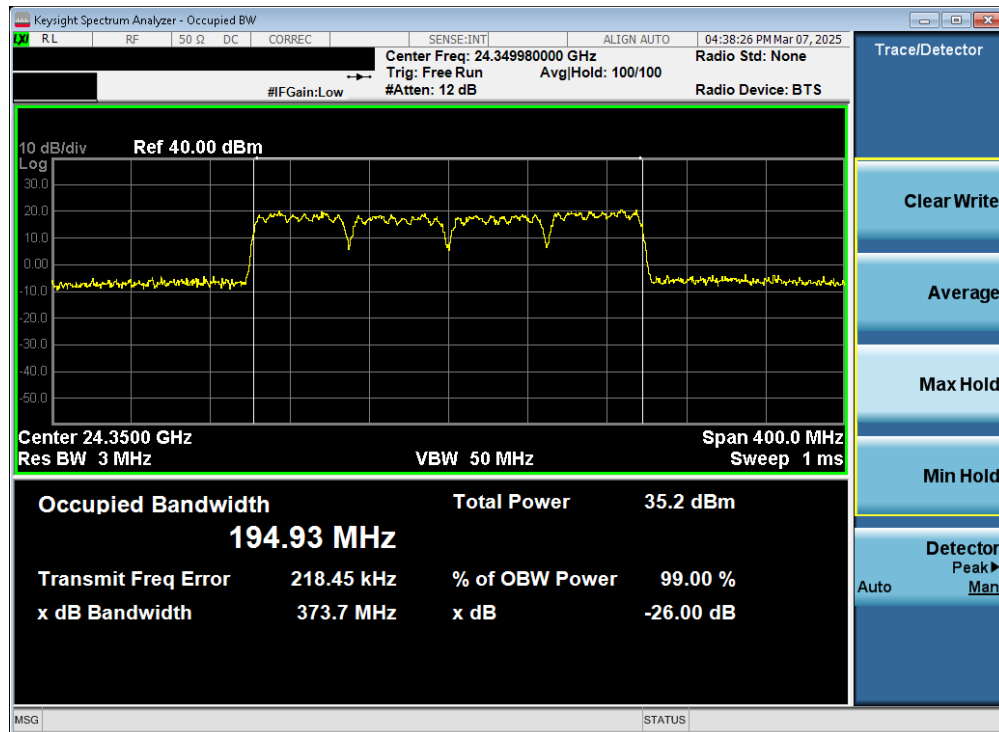


Plot 7-12. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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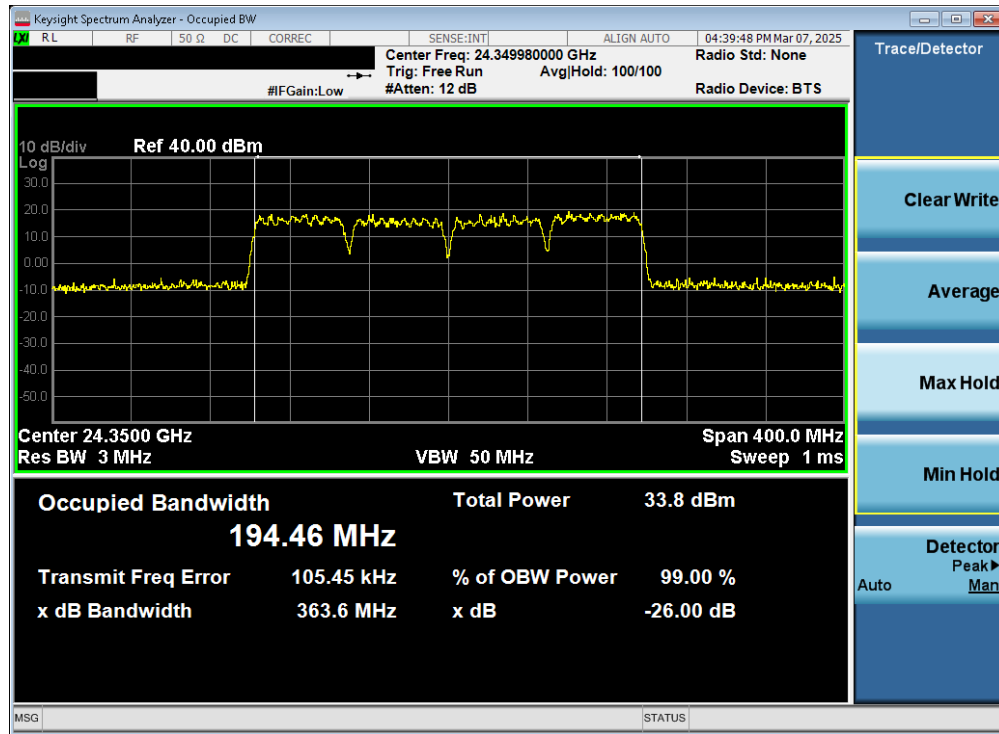


Plot 7-13. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM QPSK– Mid Channel)

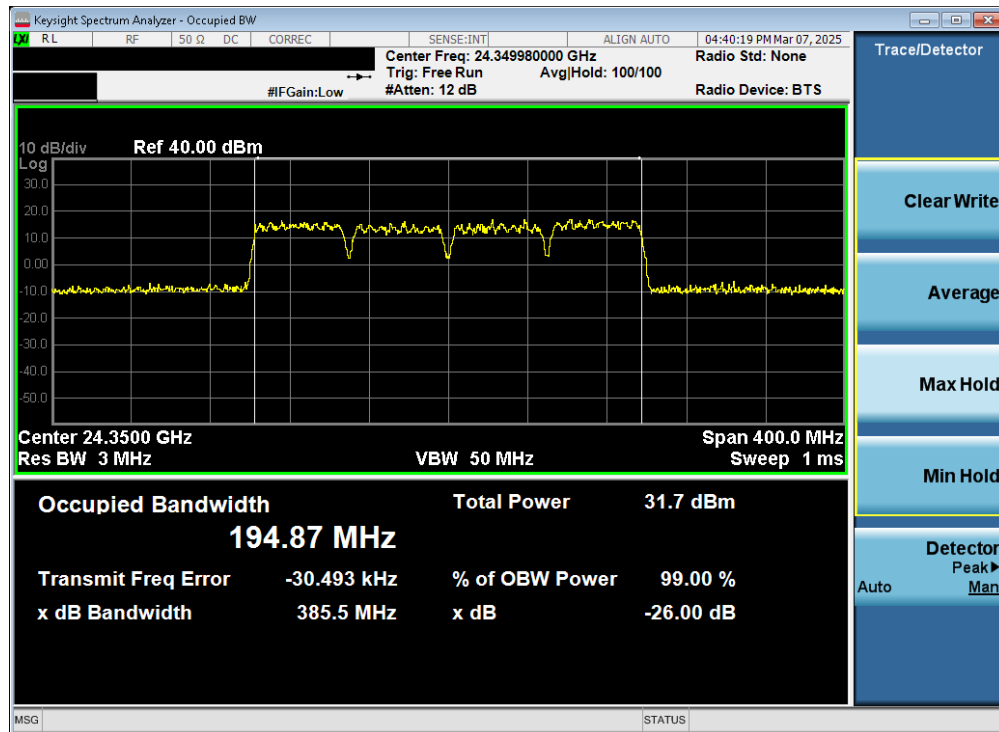


Plot 7-14. Ant1 Occupied Bandwidth Plot (50MHz-4CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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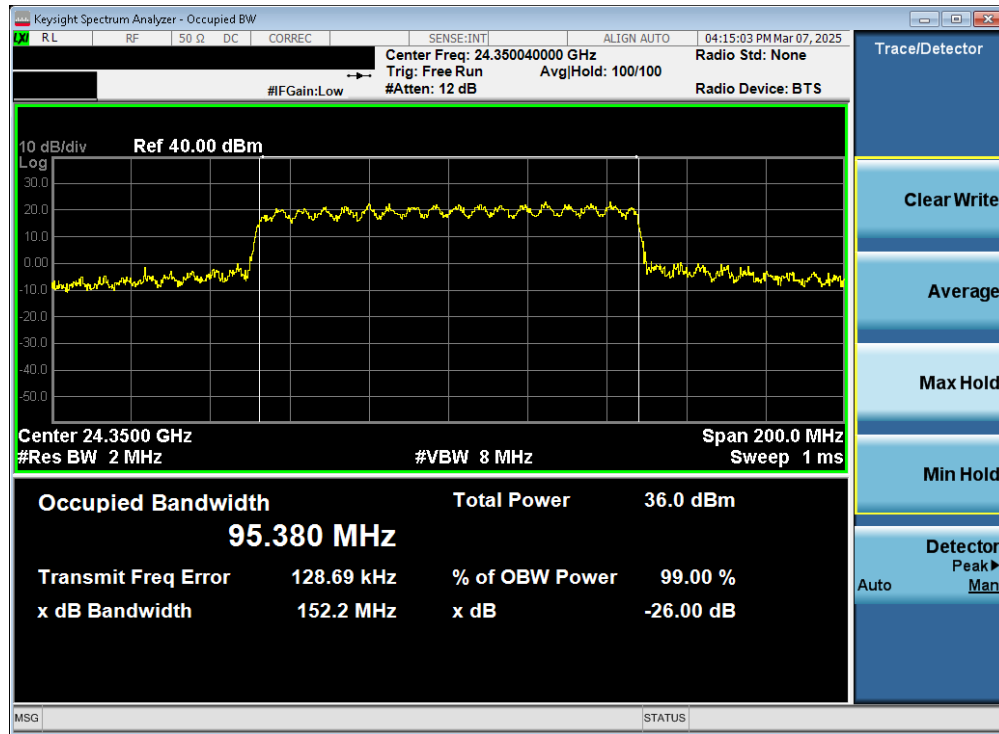


Plot 7-15. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM 16QAM– Mid Channel)

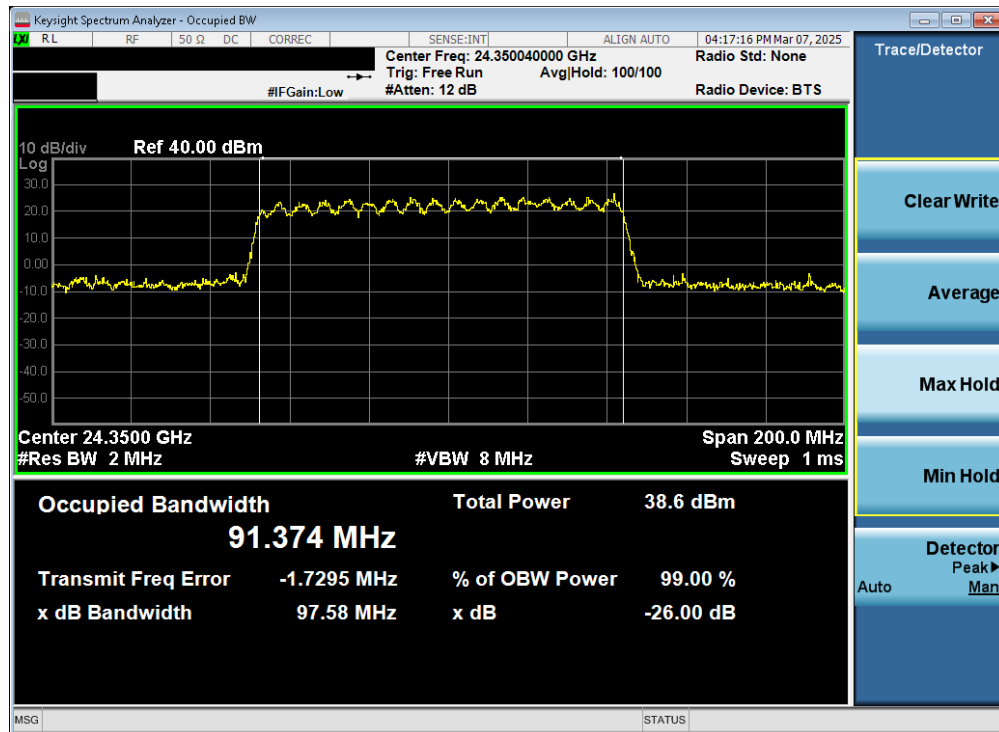


Plot 7-16. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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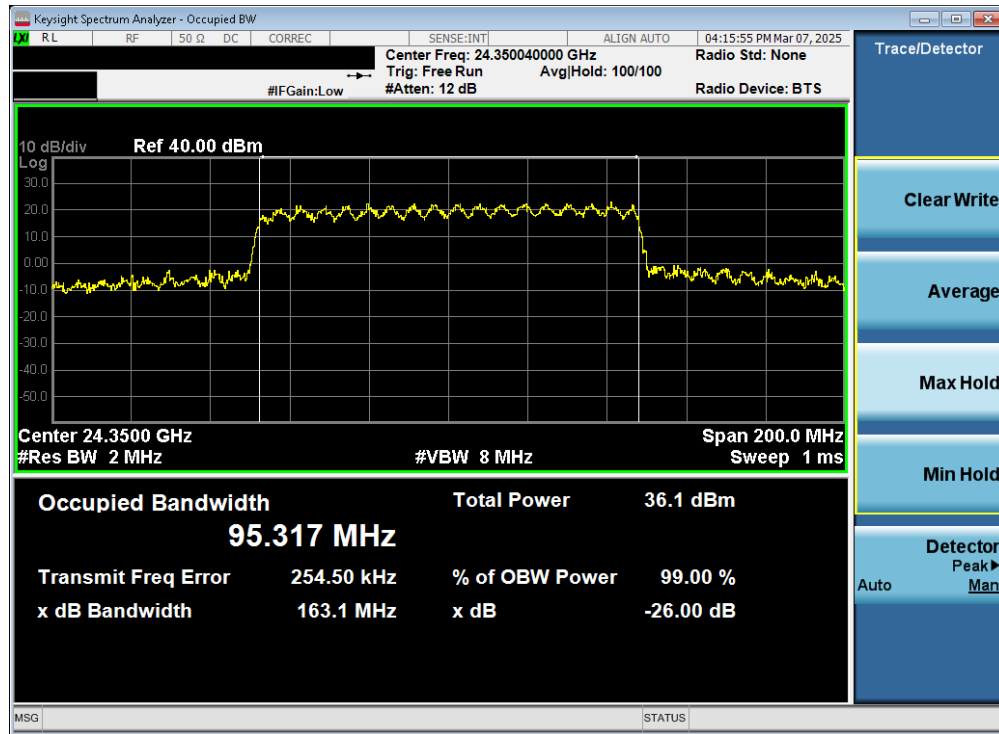


Plot 7-17. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM QPSK– Mid Channel)

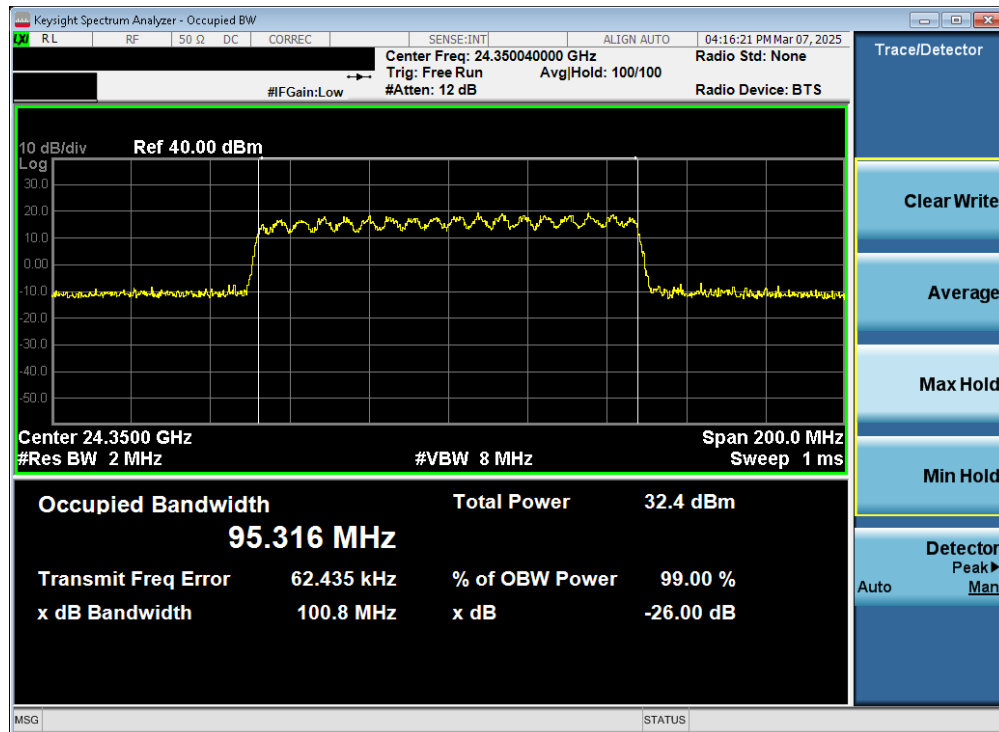


Plot 7-18. Ant1 Occupied Bandwidth Plot (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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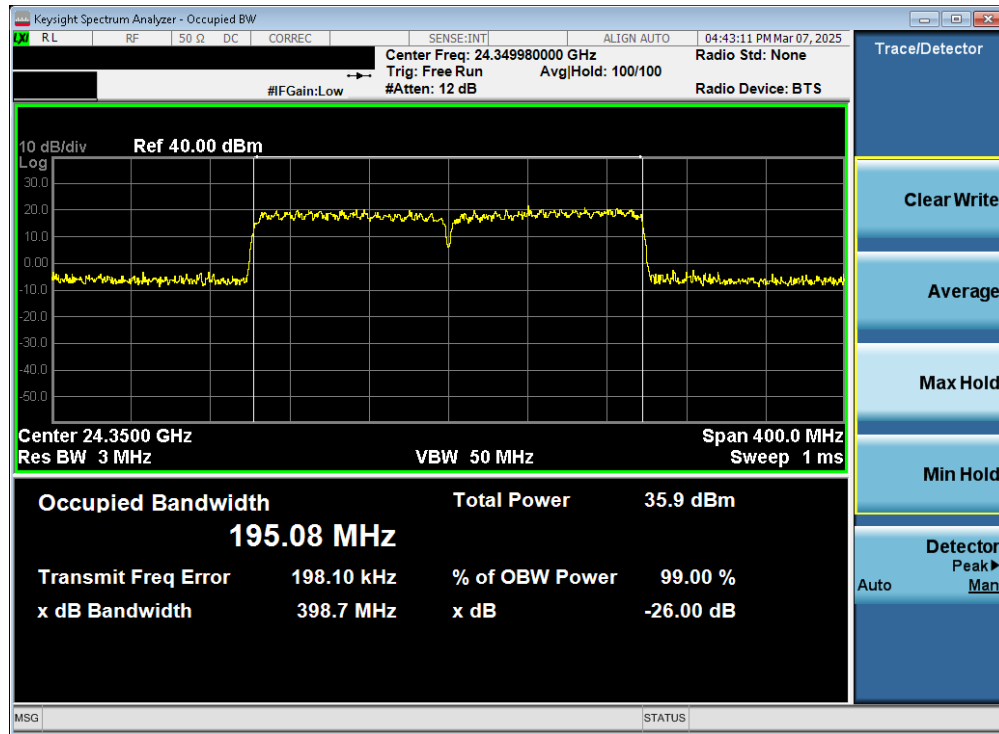


Plot 7-19. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM 16QAM– Mid Channel)

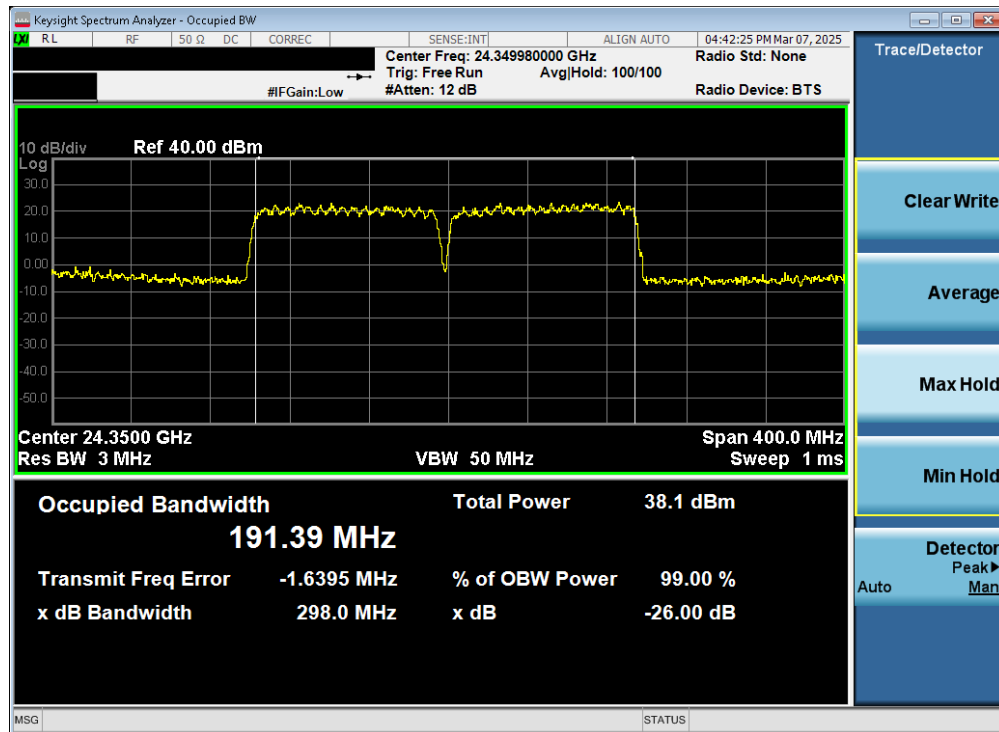


Plot 7-20. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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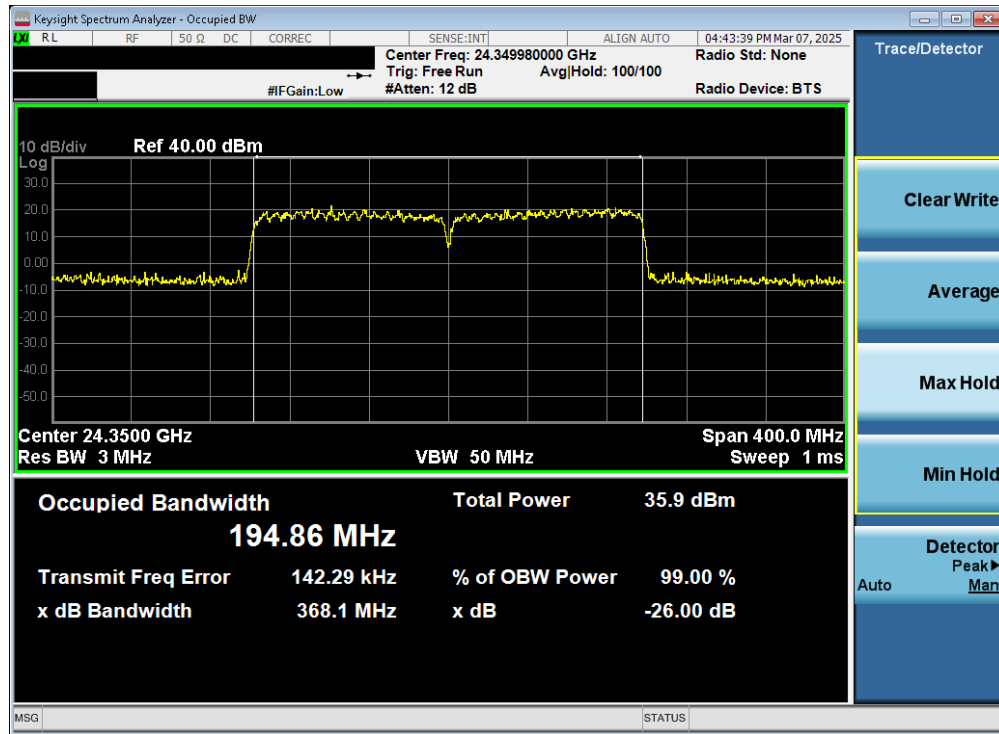


Plot 7-21. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM QPSK – Mid Channel)

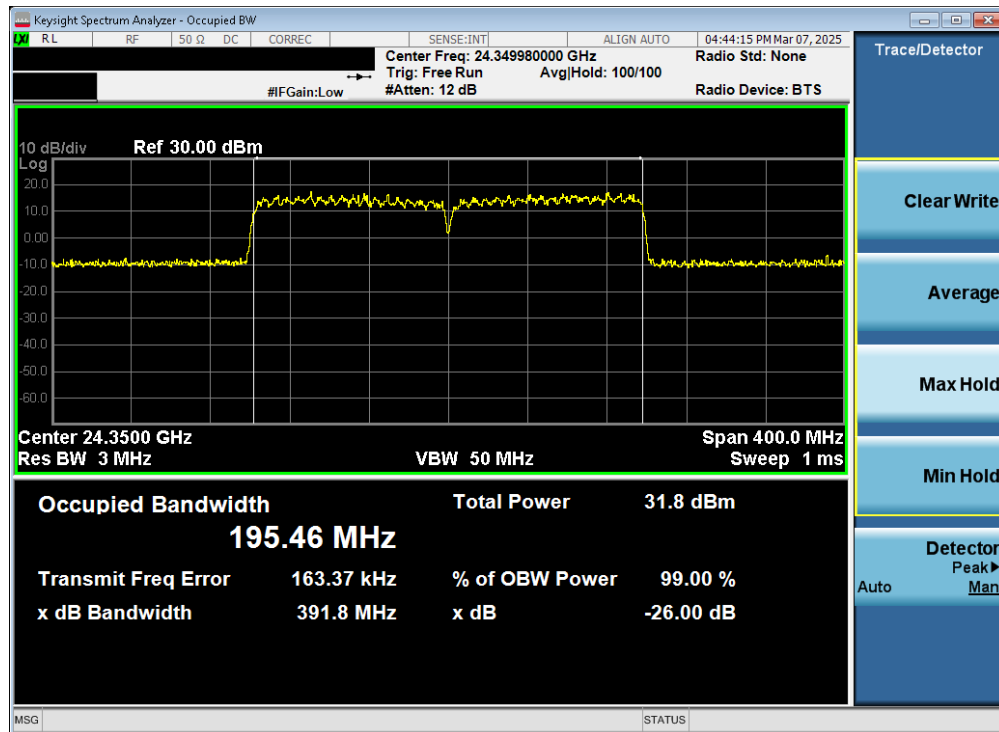


Plot 7-22. Ant1 Occupied Bandwidth Plot (100MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-23. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 16QAM – Mid Channel)



Plot 7-24. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 64QAM – Mid Channel)

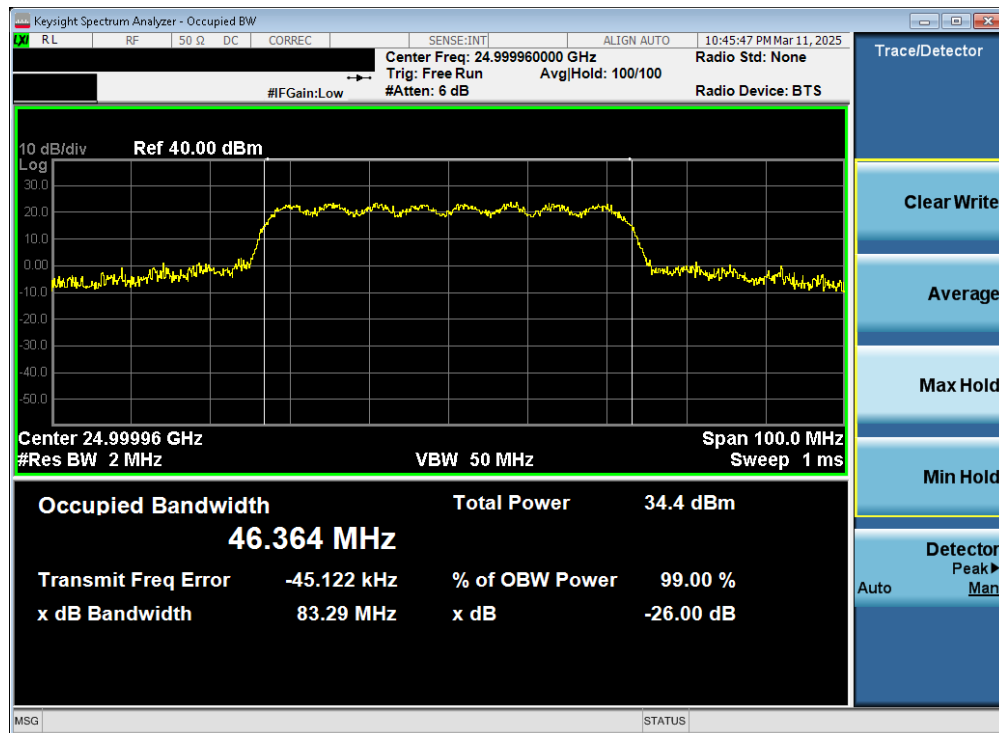
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n258-R2

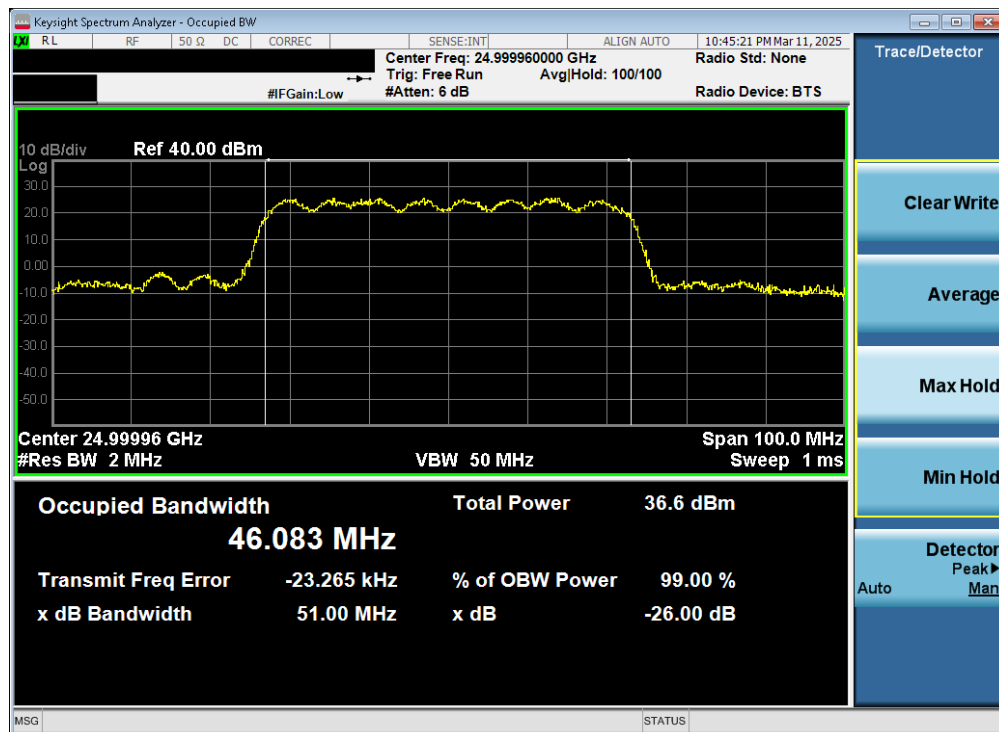
Antenna	Bandwidth [MHz]	CCs Active	Transmission Scheme	Modulation	OBW [MHz]
Ant-1	50	1	CP-OFDM	QPSK	46.36
			DFT-s-OFDM	$\pi/2$ BPSK	46.08
			CP-OFDM	16QAM	46.16
			CP-OFDM	64QAM	45.77
		2	CP-OFDM	QPSK	94.64
			DFT-s-OFDM	$\pi/2$ BPSK	94.95
			CP-OFDM	16QAM	94.91
			CP-OFDM	64QAM	94.60
		3	CP-OFDM	QPSK	144.63
			DFT-s-OFDM	$\pi/2$ BPSK	144.56
			CP-OFDM	16QAM	144.55
			CP-OFDM	64QAM	144.23
		4	CP-OFDM	QPSK	193.83
			DFT-s-OFDM	$\pi/2$ BPSK	194.42
			CP-OFDM	16QAM	193.92
			CP-OFDM	64QAM	193.99
	100	1	CP-OFDM	QPSK	95.45
			DFT-s-OFDM	$\pi/2$ BPSK	91.53
			CP-OFDM	16QAM	95.14
			CP-OFDM	64QAM	95.21
		2	CP-OFDM	QPSK	194.56
			DFT-s-OFDM	$\pi/2$ BPSK	190.85
			CP-OFDM	16QAM	194.61
			CP-OFDM	64QAM	195.67
		3	CP-OFDM	QPSK	296.79
			DFT-s-OFDM	$\pi/2$ BPSK	293.12
			CP-OFDM	16QAM	295.79
			CP-OFDM	64QAM	297.42
		4	CP-OFDM	QPSK	394.59
			DFT-s-OFDM	$\pi/2$ BPSK	392.29
			CP-OFDM	16QAM	394.06
			CP-OFDM	64QAM	394.91

Table 7-3. Summary of Ant1 Occupied Bandwidths (n258-R2)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 31 of 194

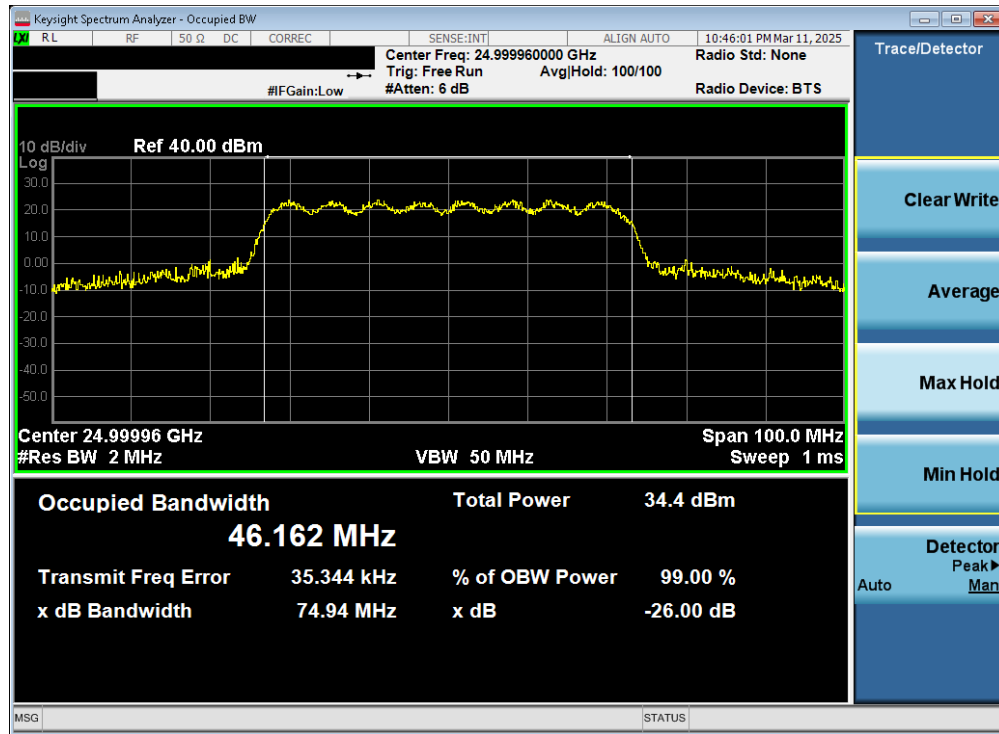


Plot 7-25. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM QPSK– Mid Channel)

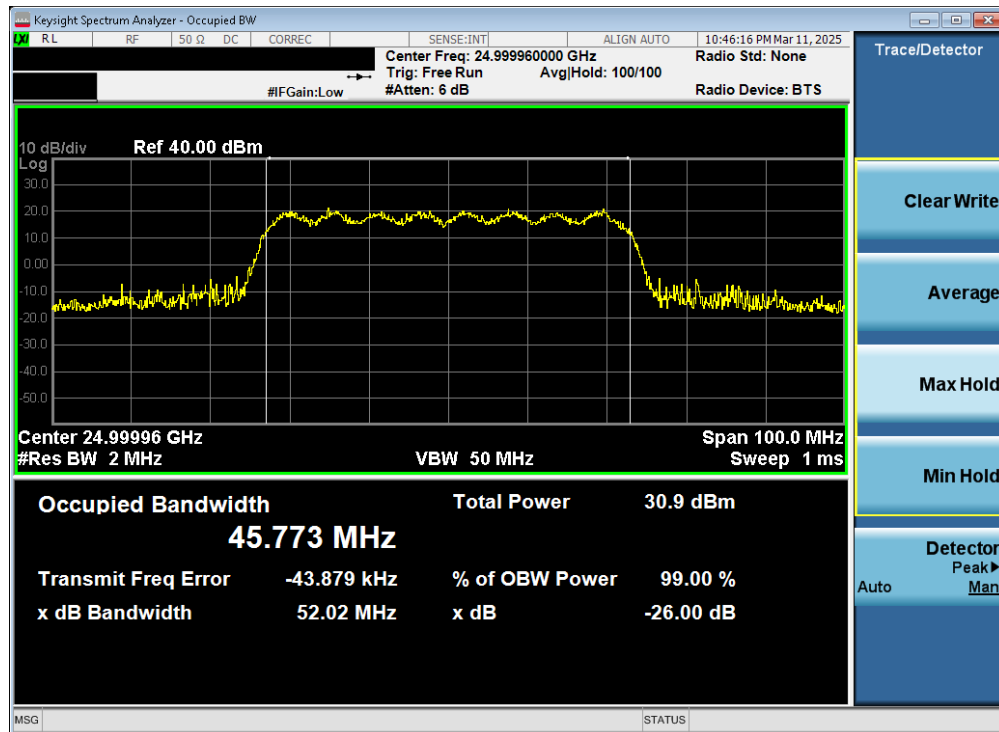


Plot 7-26. Ant1 Occupied Bandwidth Plot (50MHz-1CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 32 of 194

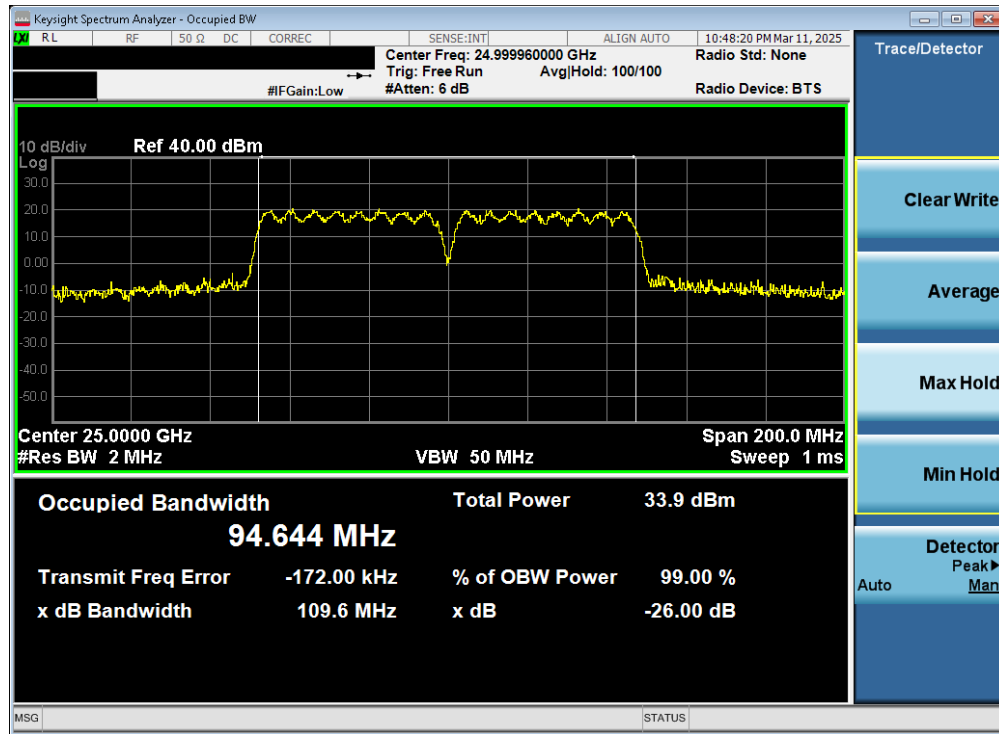


Plot 7-27. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM 16QAM– Mid Channel)

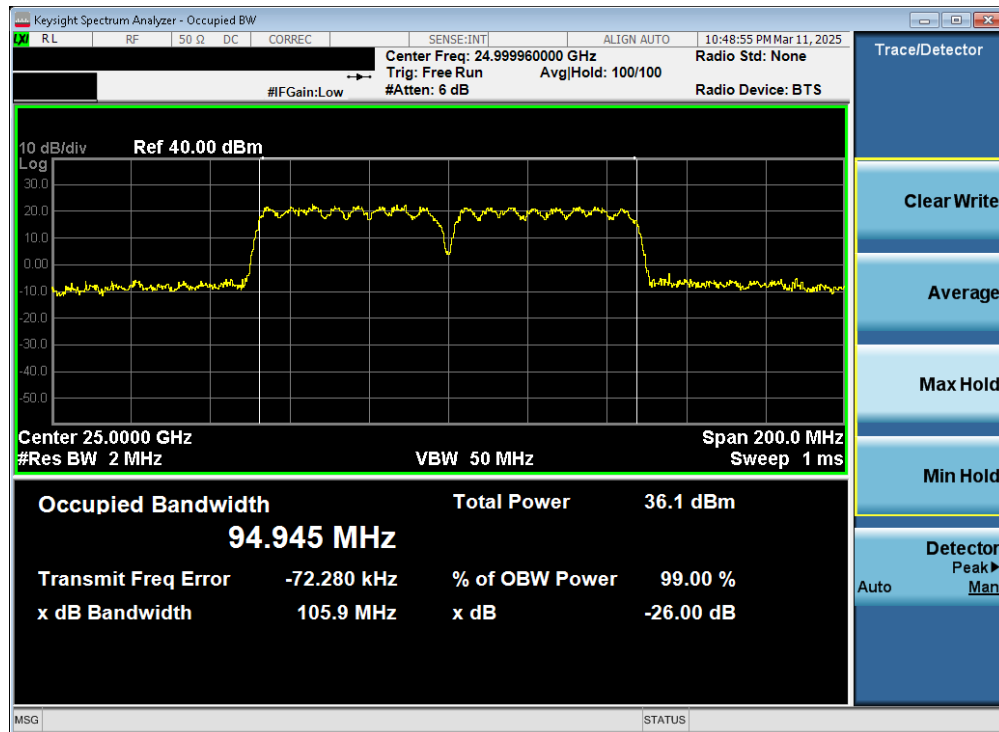


Plot 7-28. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 33 of 194

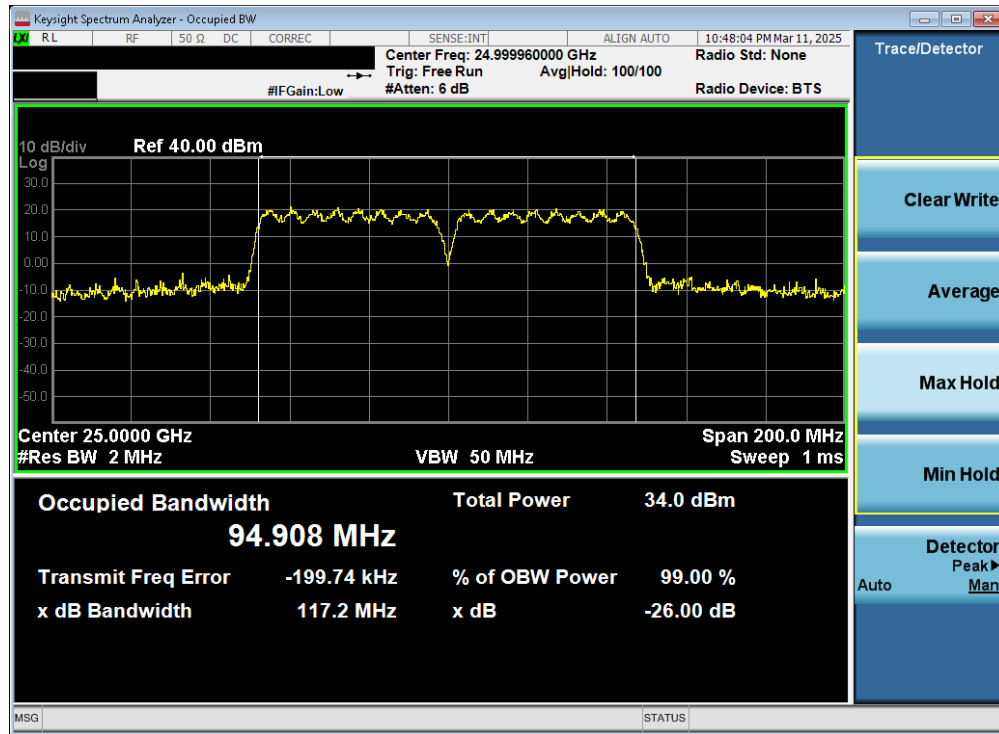


Plot 7-29. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM QPSK– Mid Channel)

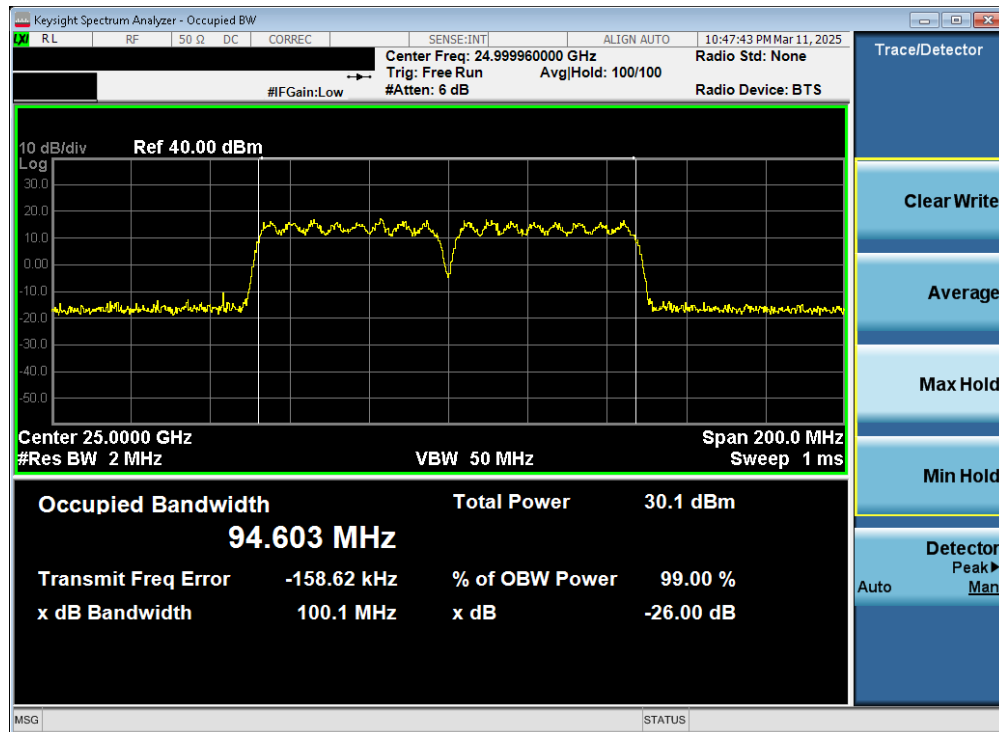


Plot 7-30. Ant1 Occupied Bandwidth Plot (50MHz-2CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 34 of 194

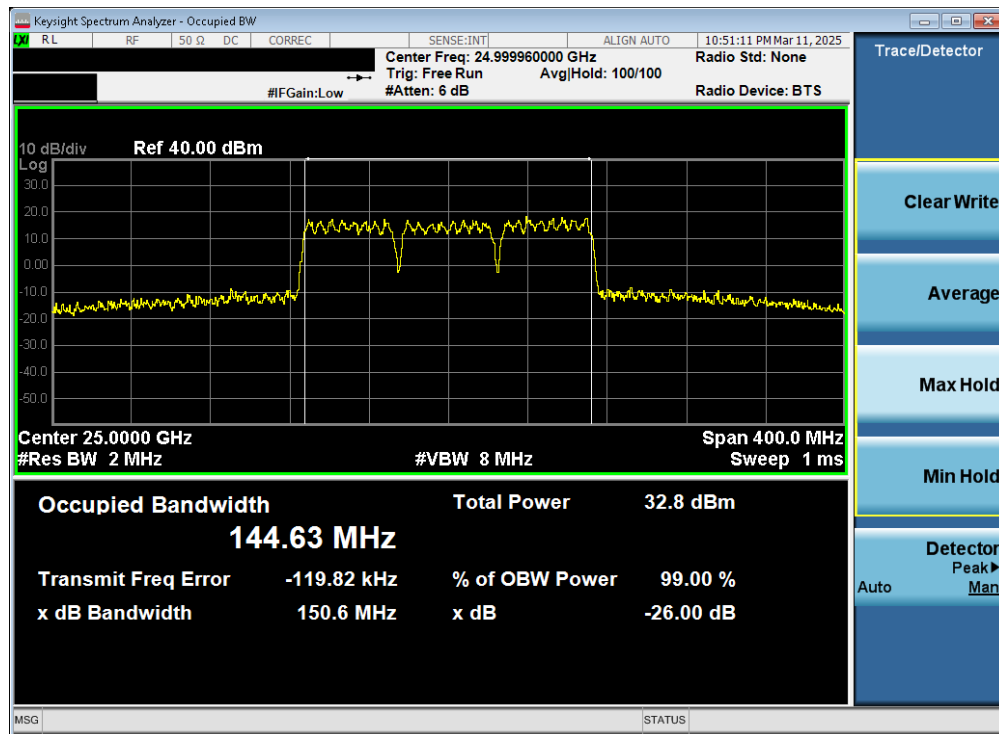


Plot 7-31. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM 16QAM– Mid Channel)

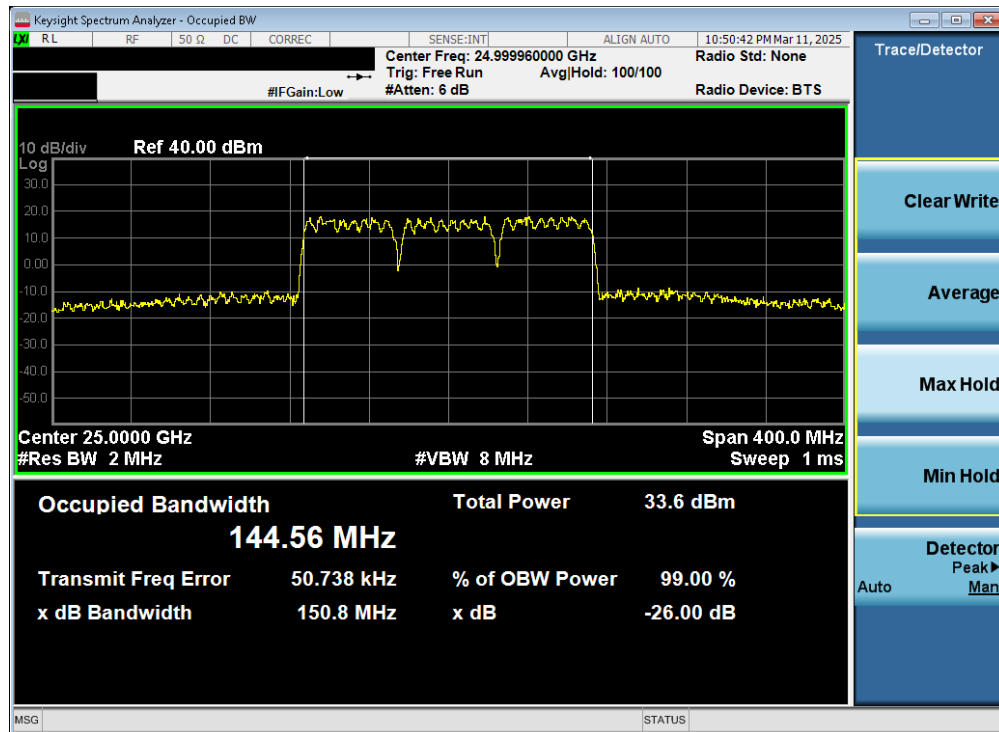


Plot 7-32. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM 64QAM– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 35 of 194

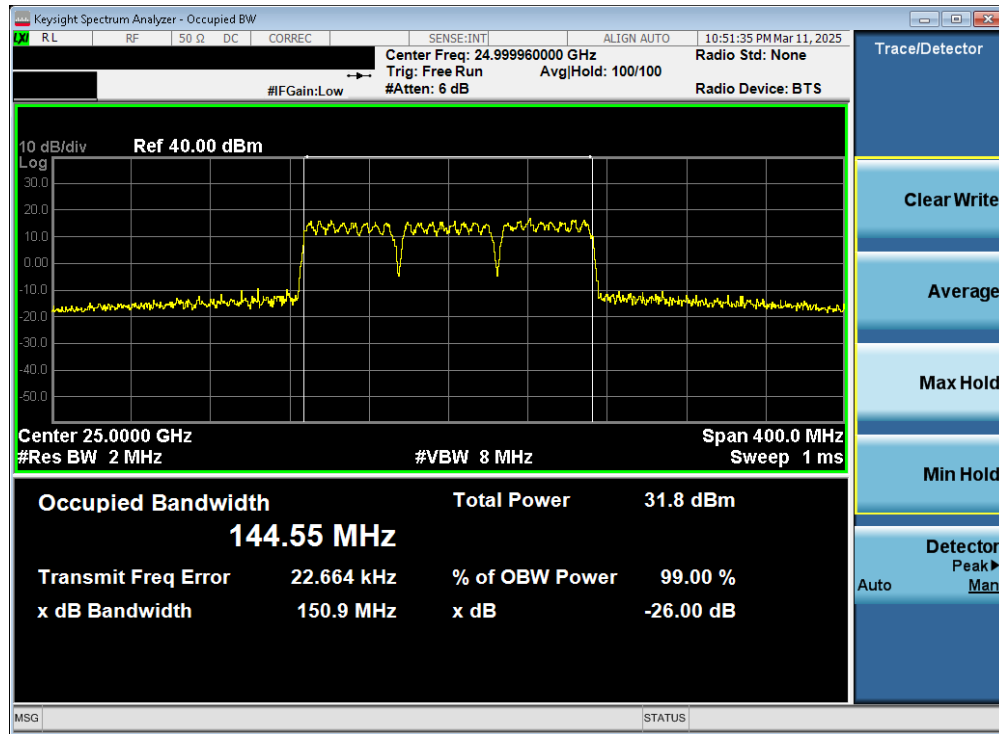


Plot 7-33. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM QPSK– Mid Channel)

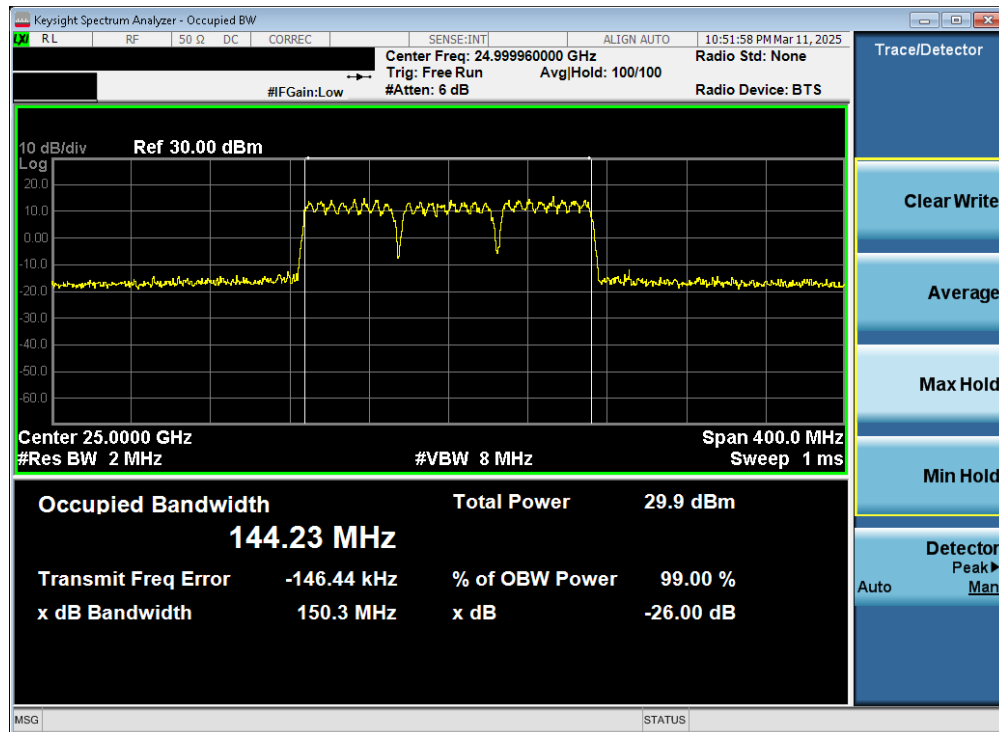


Plot 7-34. Ant1 Occupied Bandwidth Plot (50MHz-3CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 36 of 194

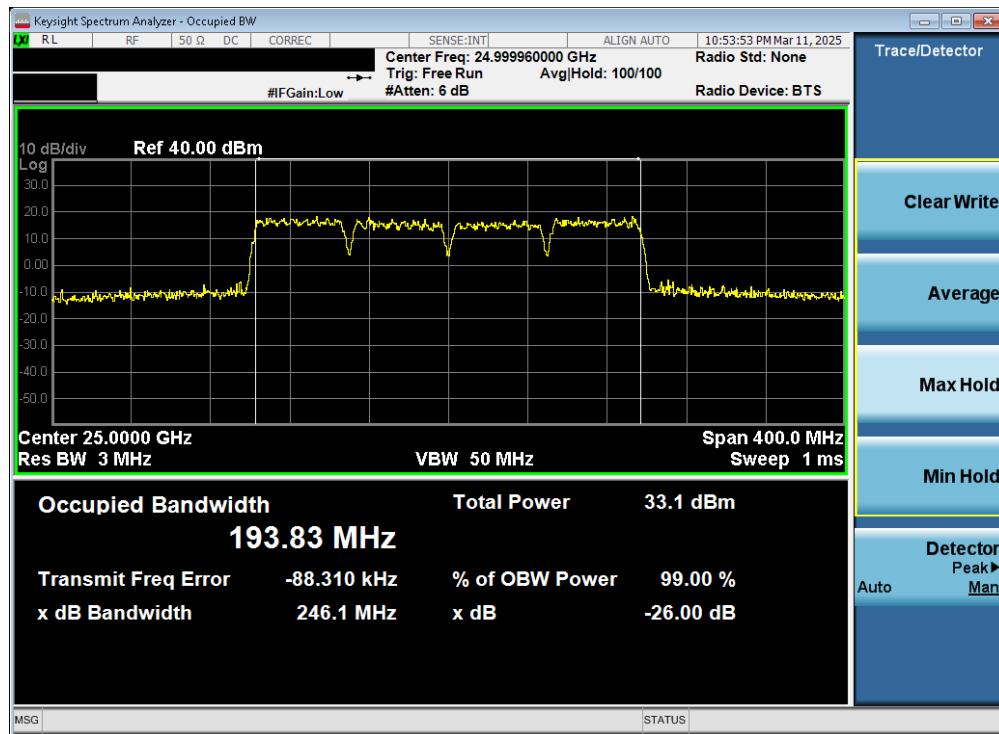


Plot 7-35. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM 16QAM– Mid Channel)

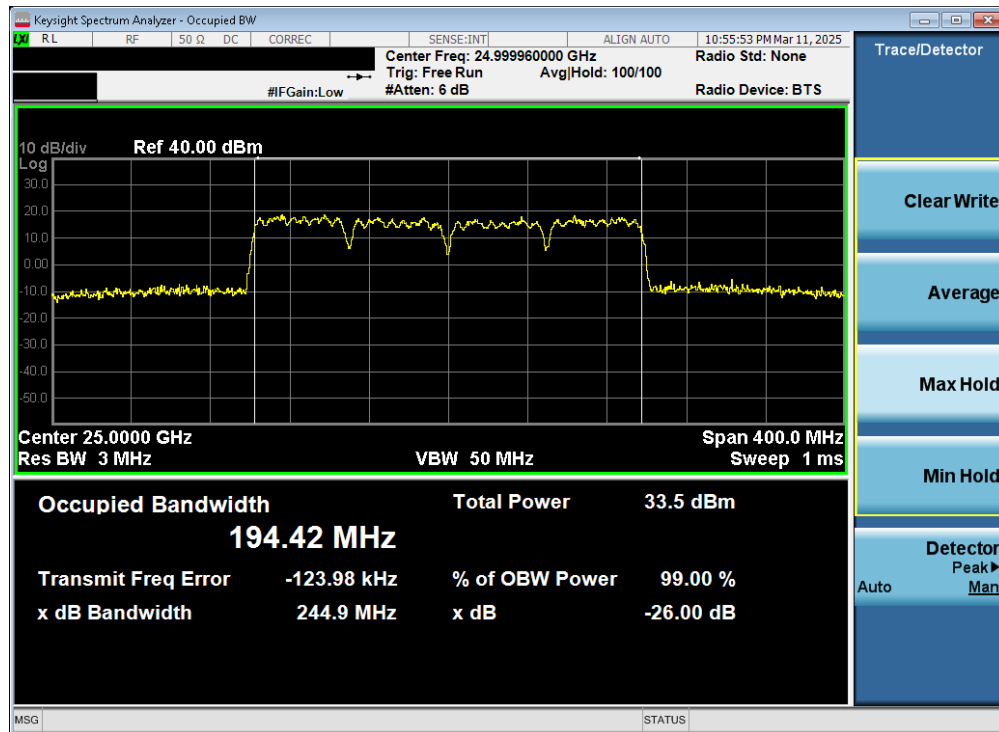


Plot 7-36. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 37 of 194

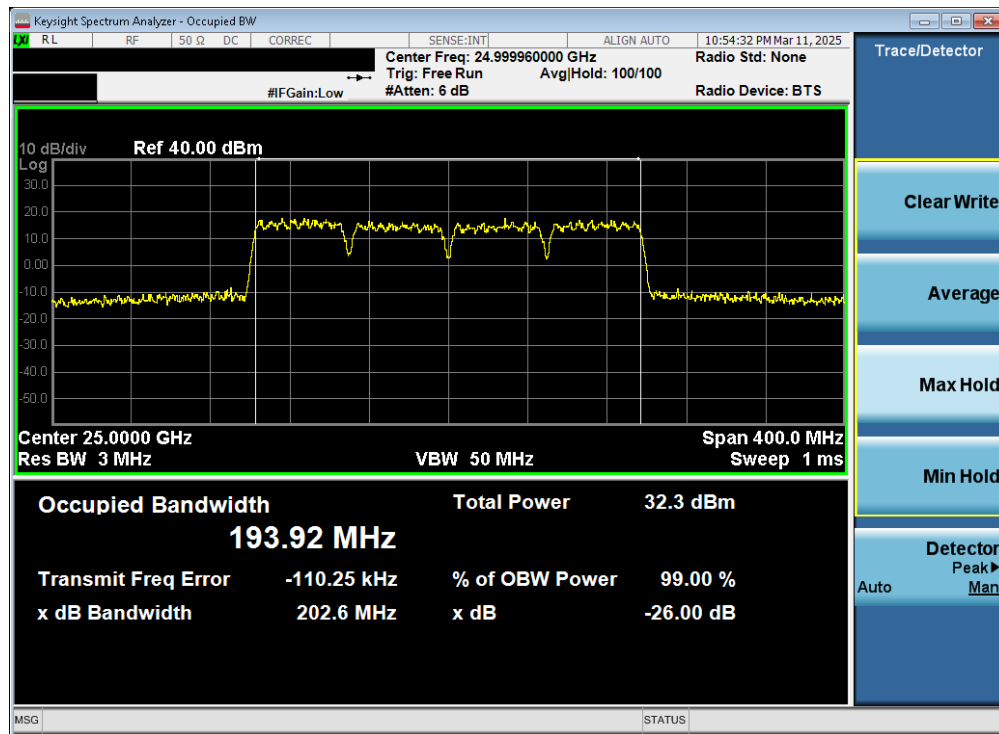


Plot 7-37. Ant1 Occupied Bandwidth Plot (50MHz-CC – CP-OFDM QPSK– Mid Channel)

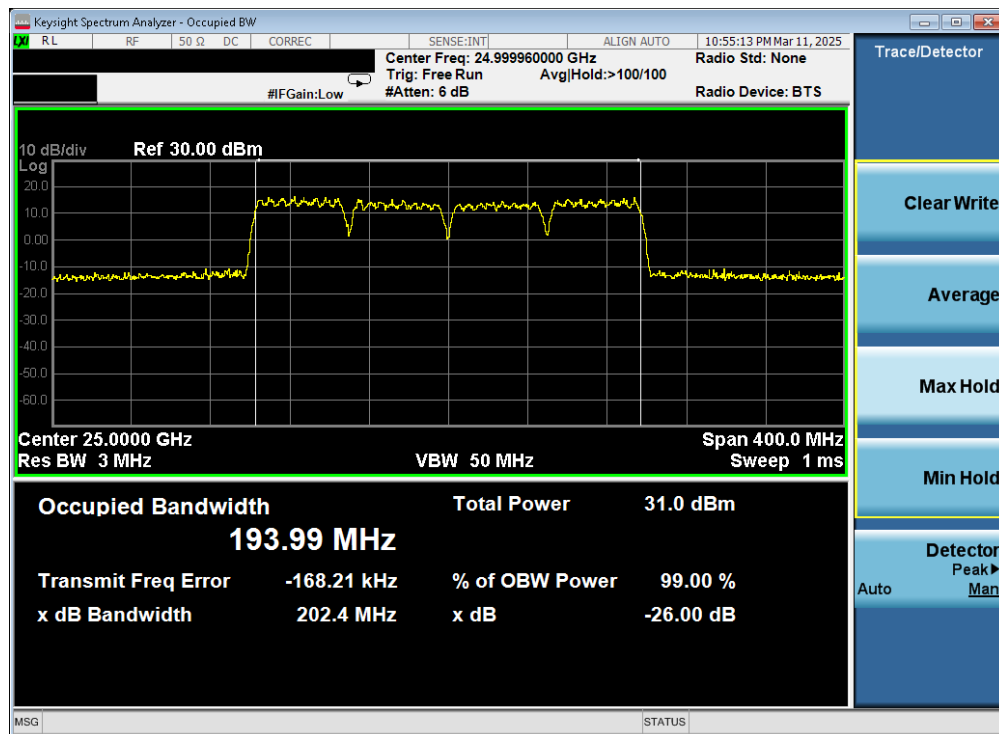


Plot 7-38. Ant1 Occupied Bandwidth Plot (50MHz-4CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 38 of 194

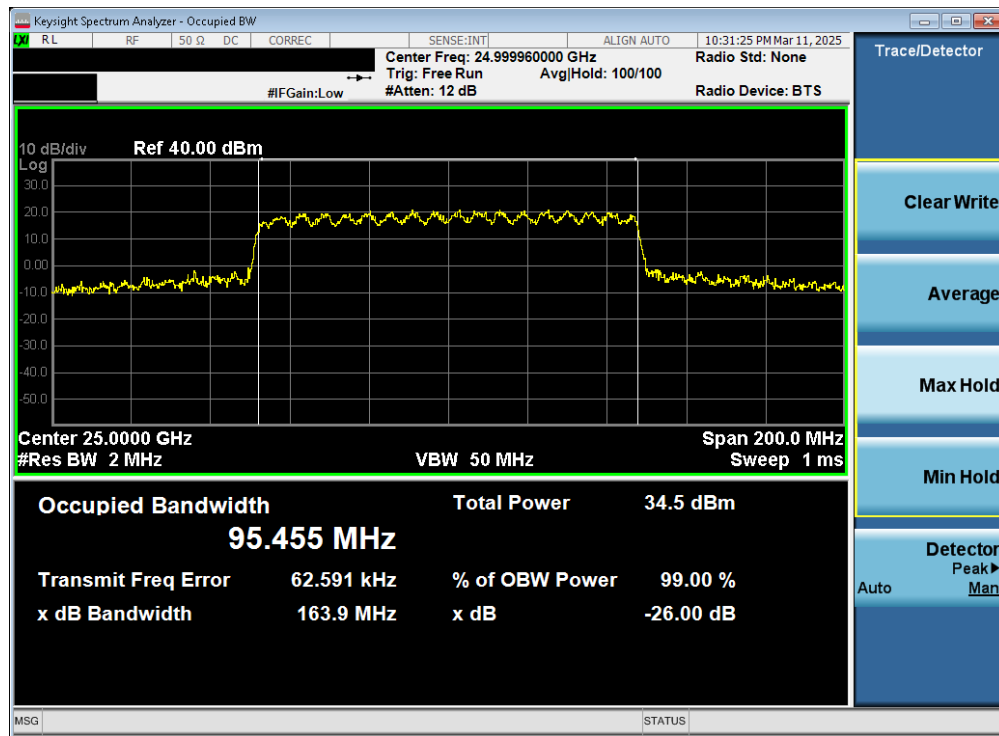


Plot 7-39. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM 16QAM– Mid Channel)

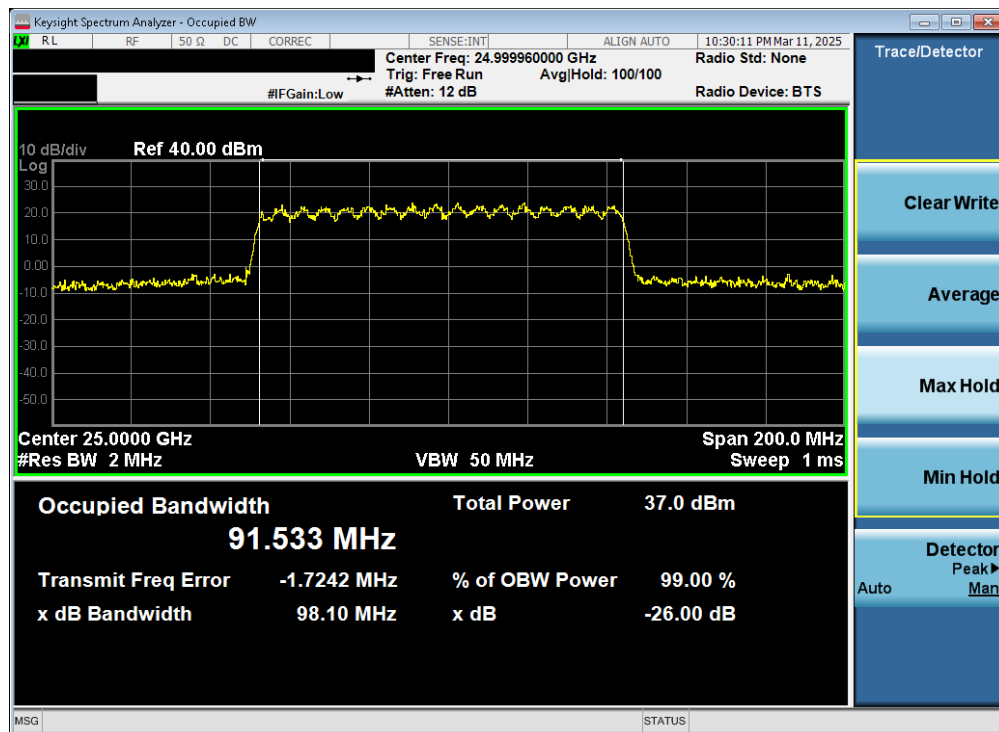


Plot 7-40. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 39 of 194

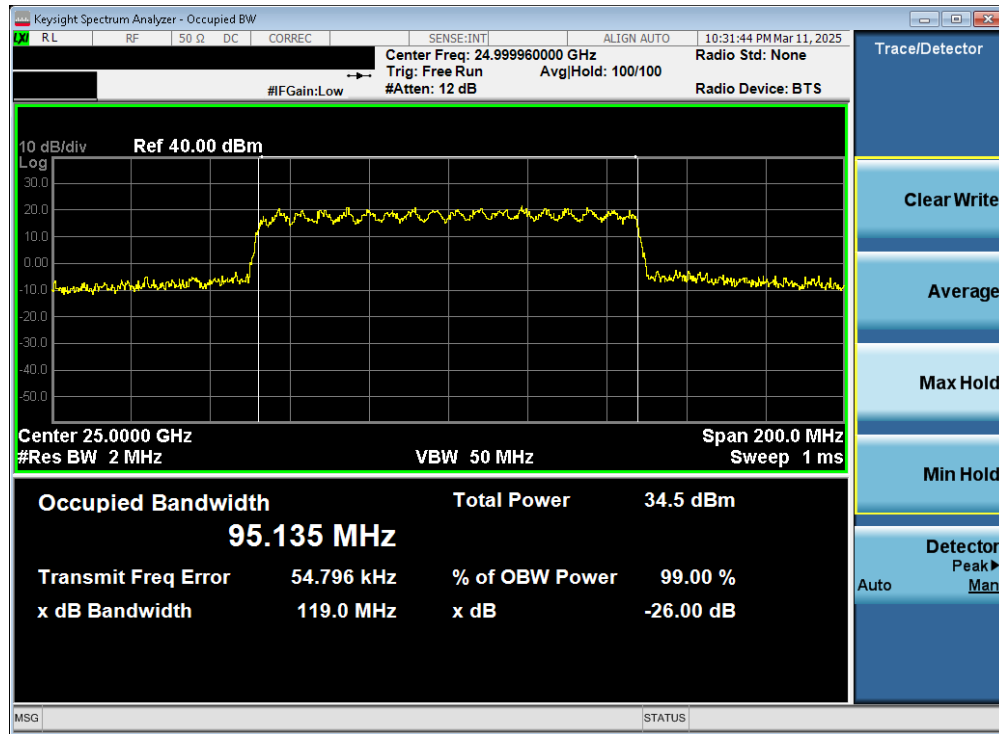


Plot 7-41. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM QPSK– Mid Channel)

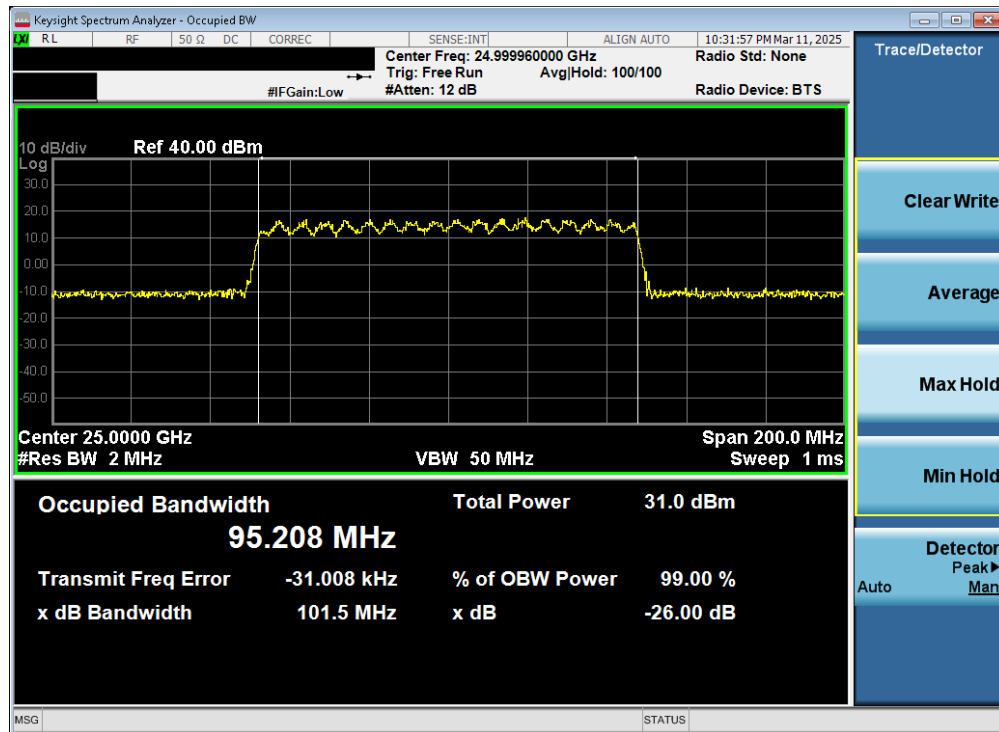


Plot 7-42. Ant1 Occupied Bandwidth Plot (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 40 of 194

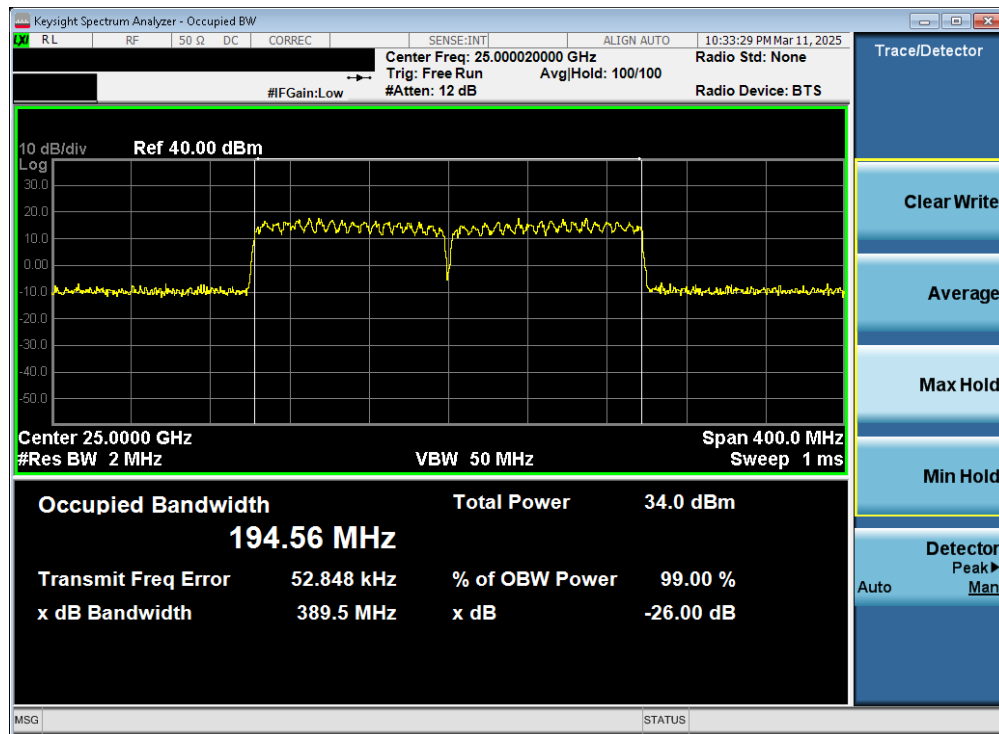


Plot 7-43. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM 16QAM– Mid Channel)

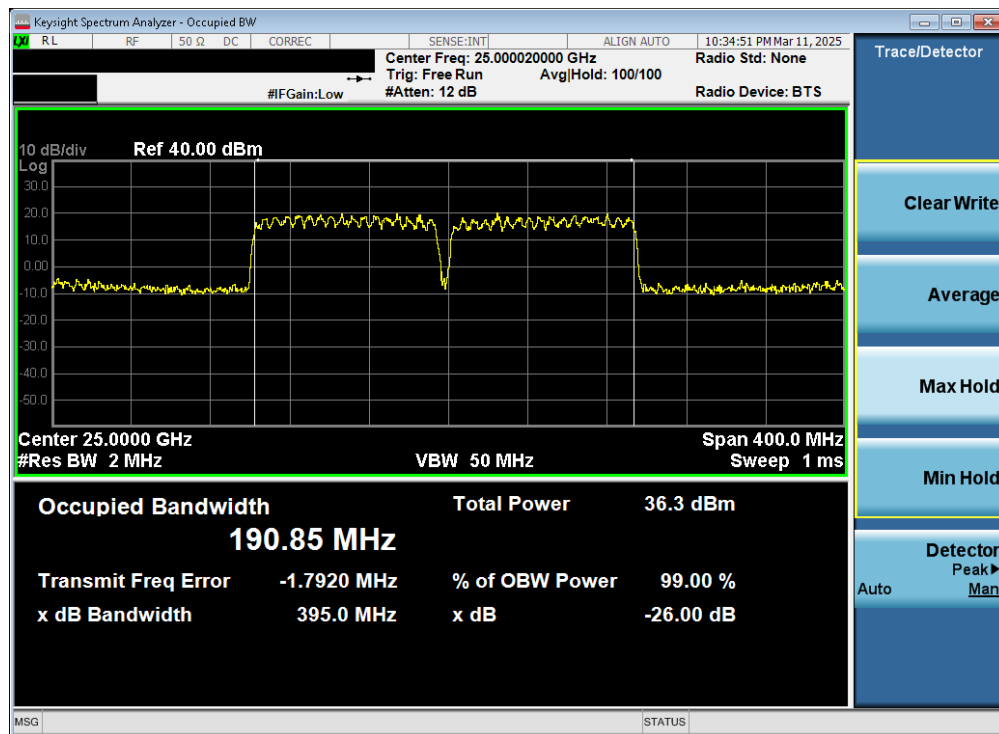


Plot 7-44. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 41 of 194

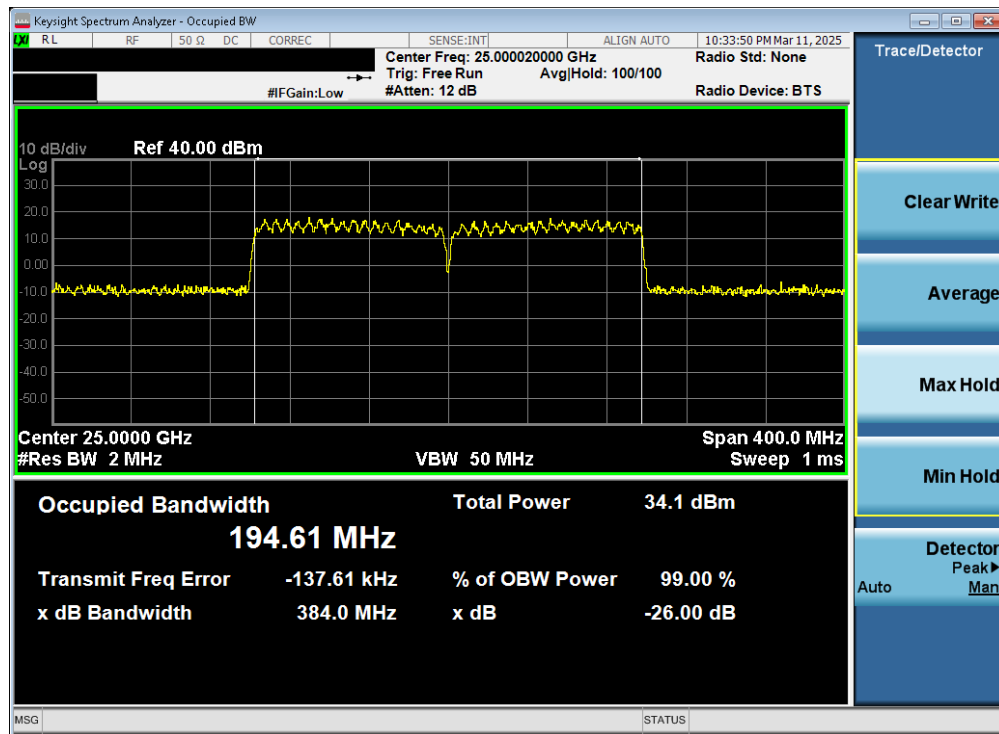


Plot 7-45. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM QPSK – Mid Channel)

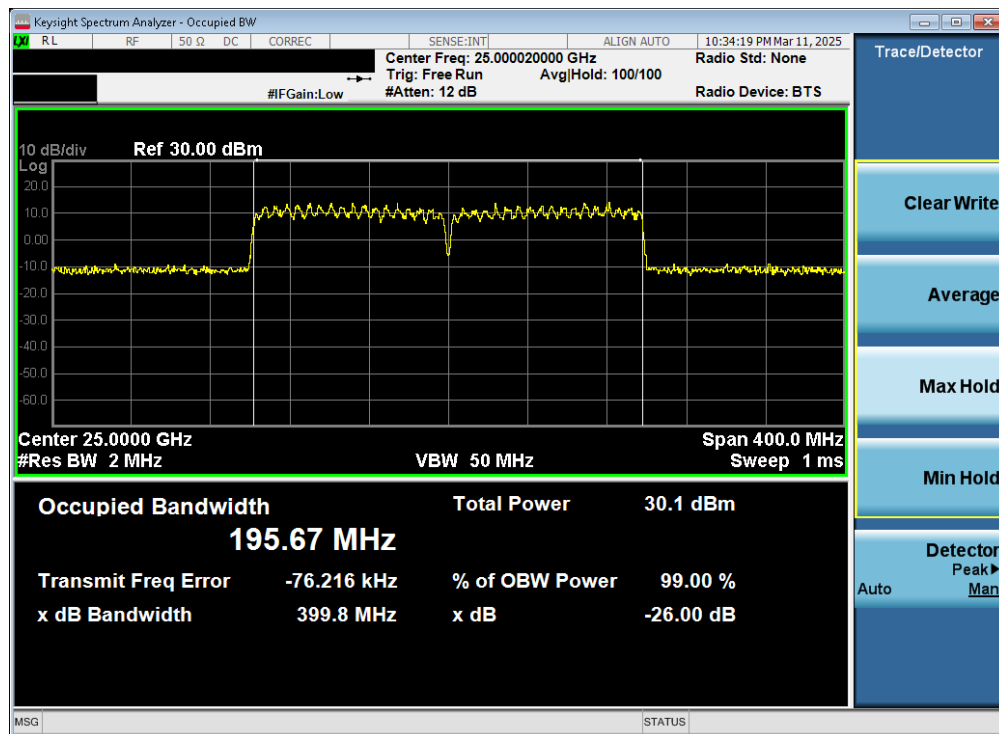


Plot 7-46. Ant1 Occupied Bandwidth Plot (100MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 42 of 194

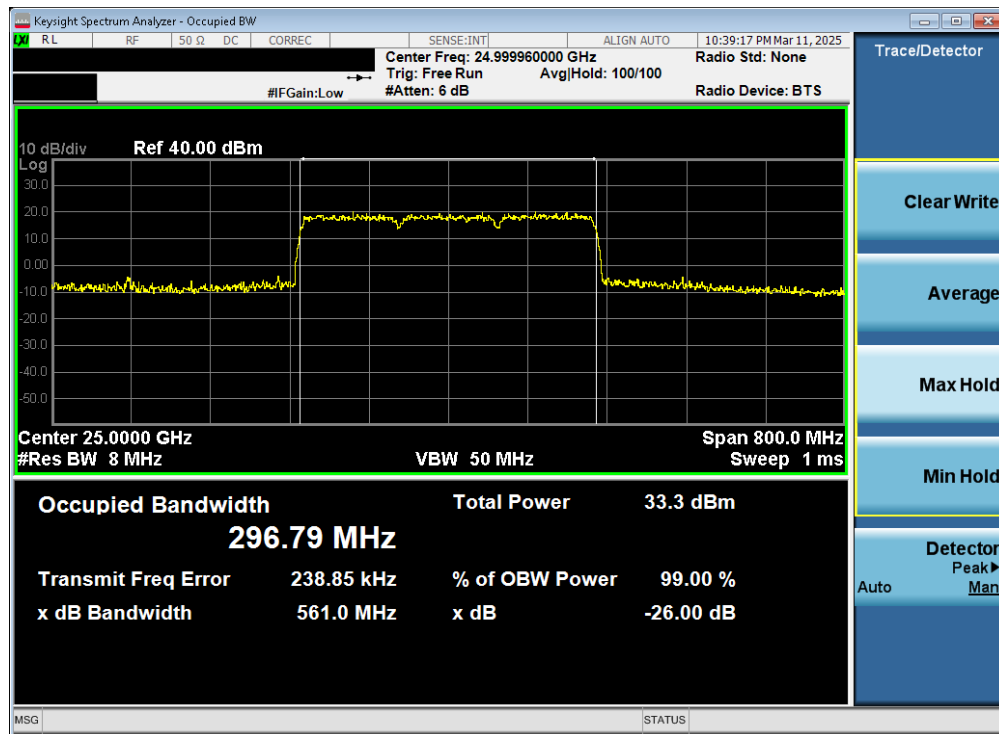


Plot 7-47. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 16QAM – Mid Channel)

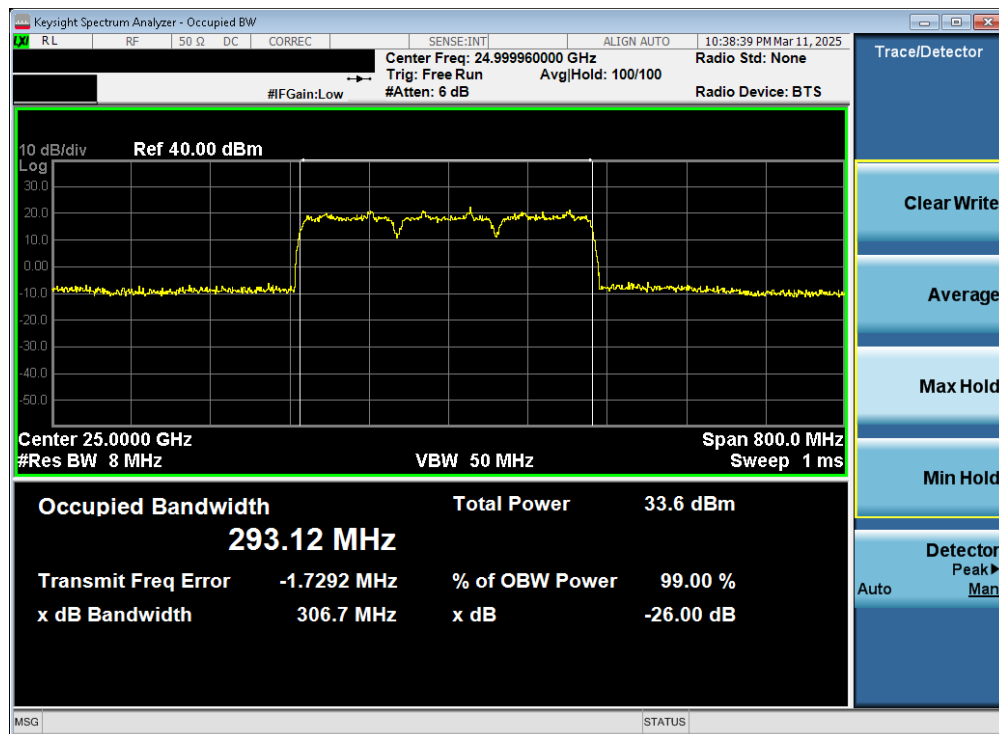


Plot 7-48. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 43 of 194

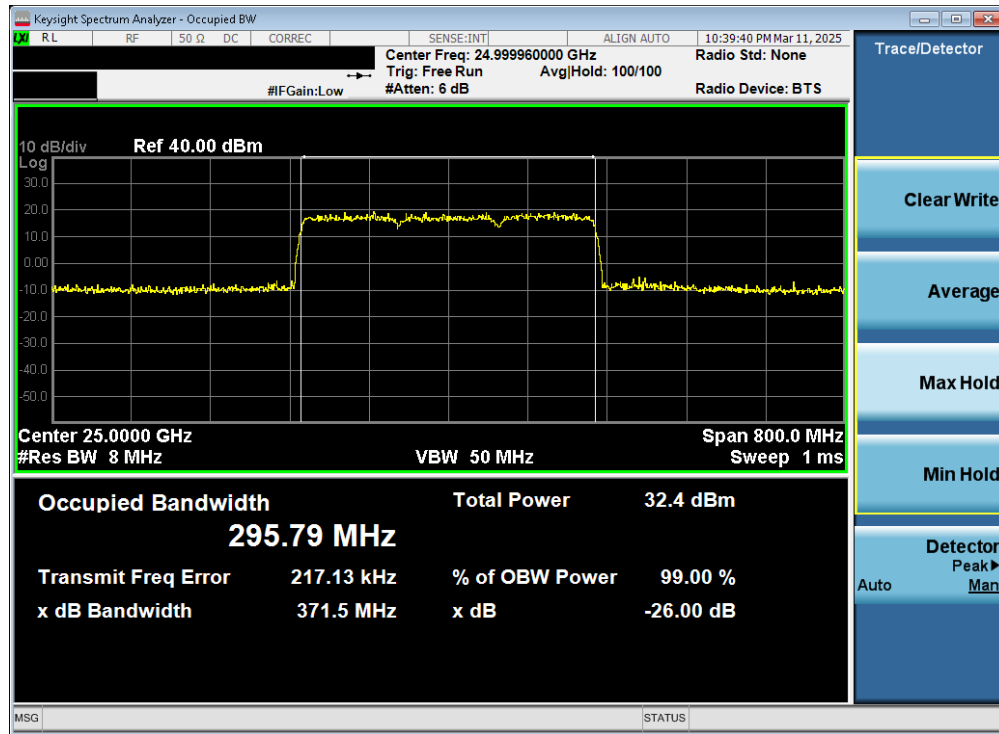


Plot 7-49. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM QPSK – Mid Channel)

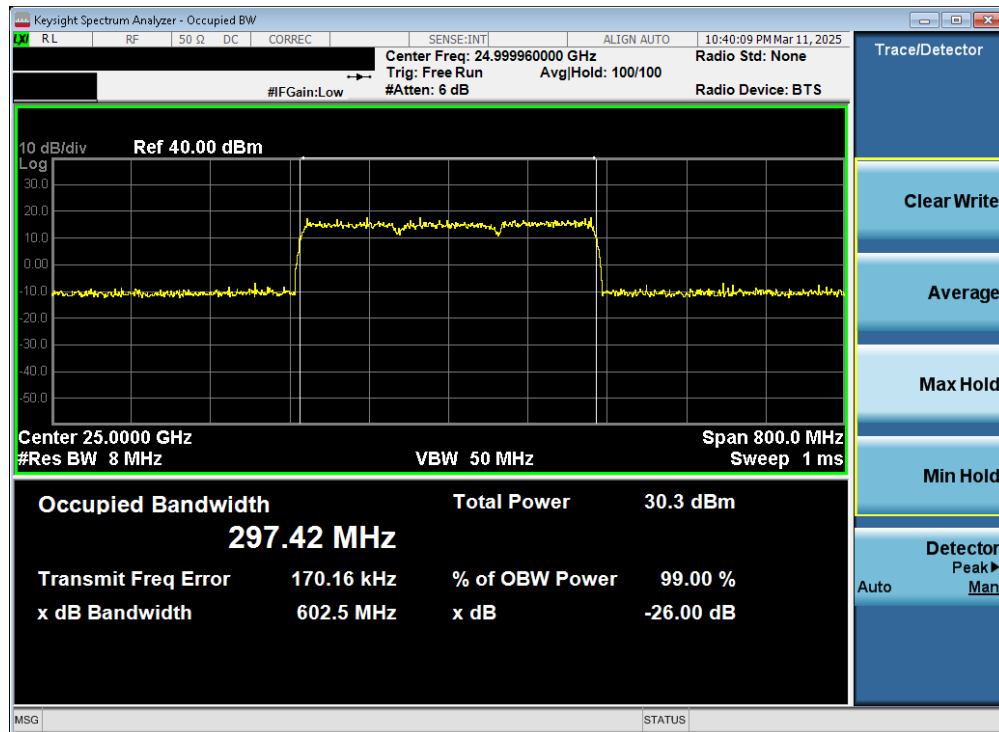


Plot 7-50. Ant1 Occupied Bandwidth Plot (100MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 44 of 194

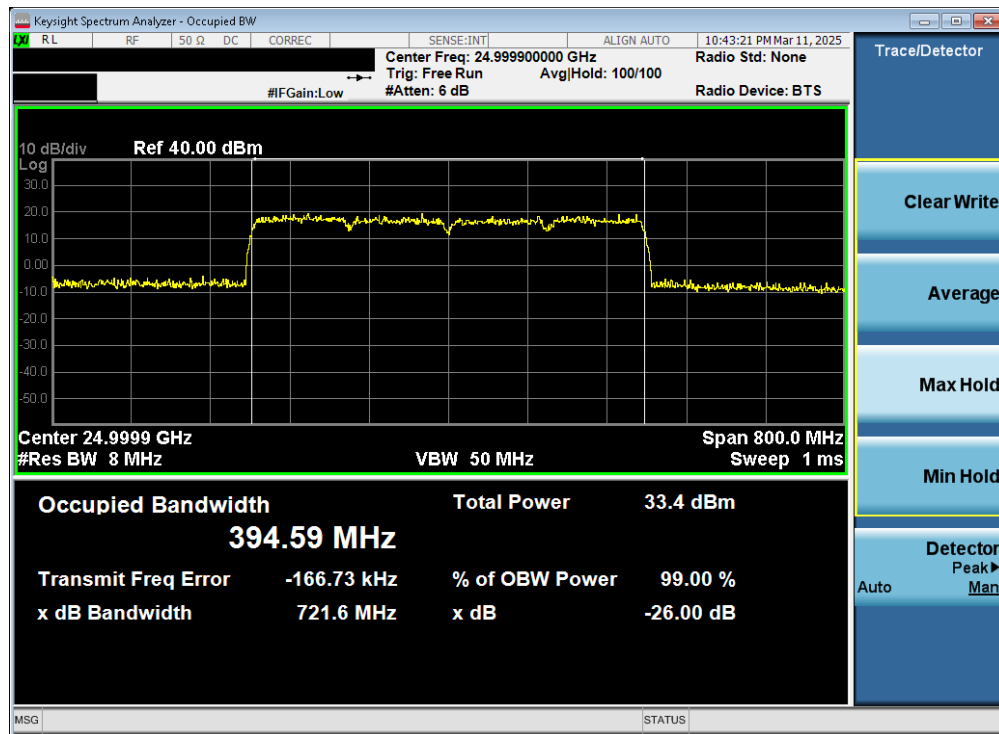


Plot 7-51. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM 16QAM – Mid Channel)

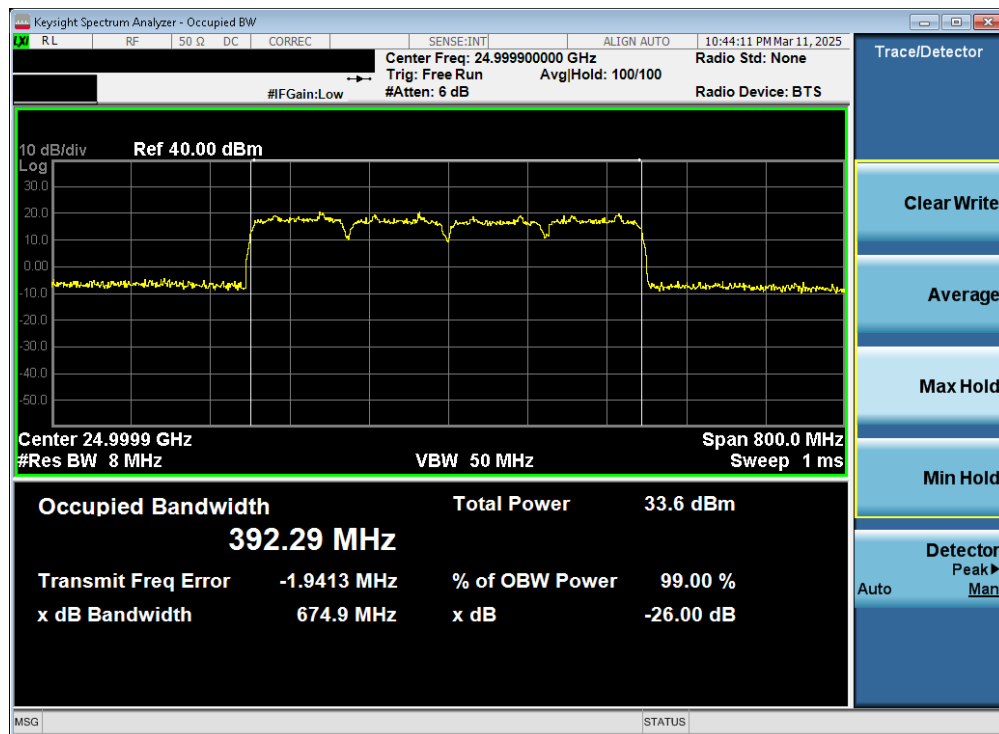


Plot 7-52. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 45 of 194

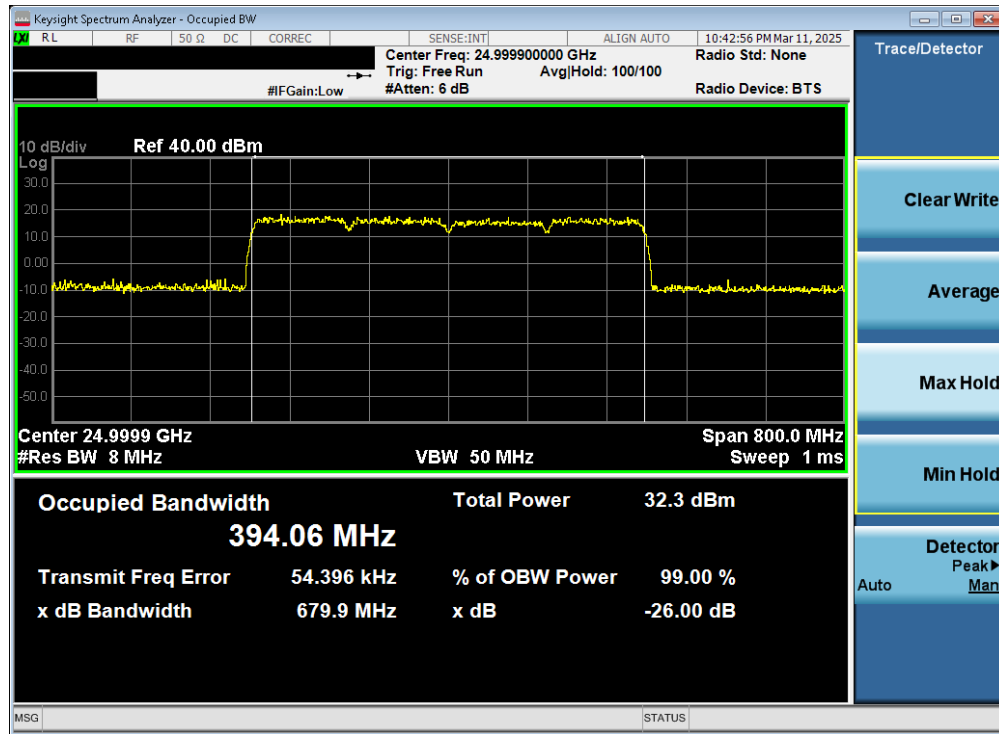


Plot 7-53. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM QPSK – Mid Channel)

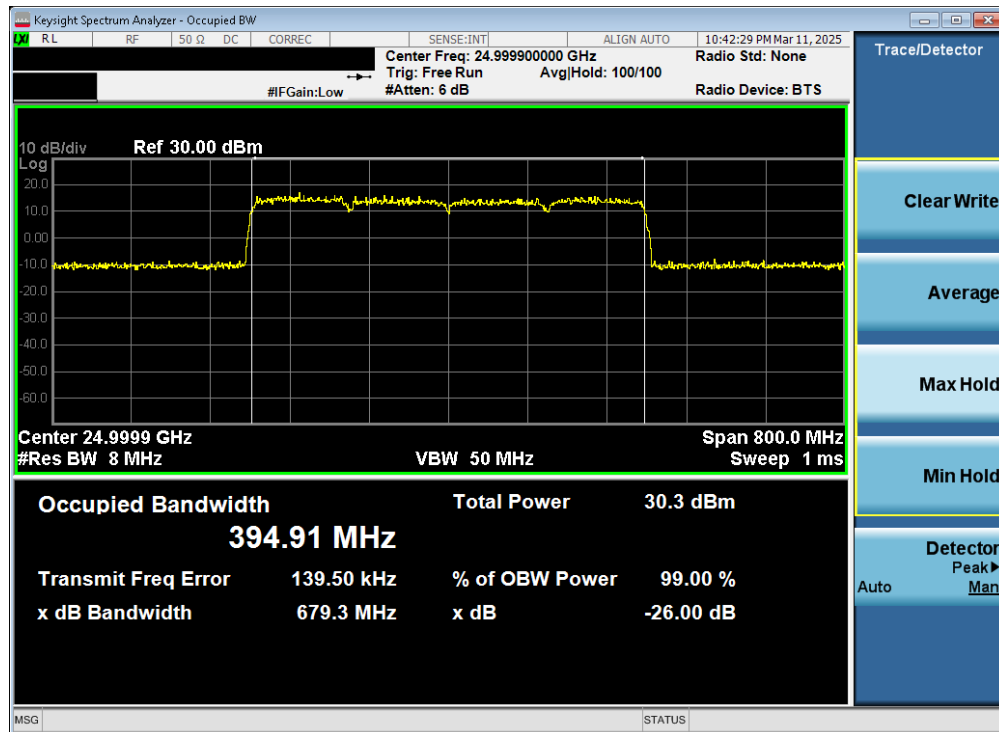


Plot 7-54. Ant1 Occupied Bandwidth Plot (100MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 46 of 194



Plot 7-55. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM 16QAM – Mid Channel)



Plot 7-56. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM 64QAM – Mid Channel)

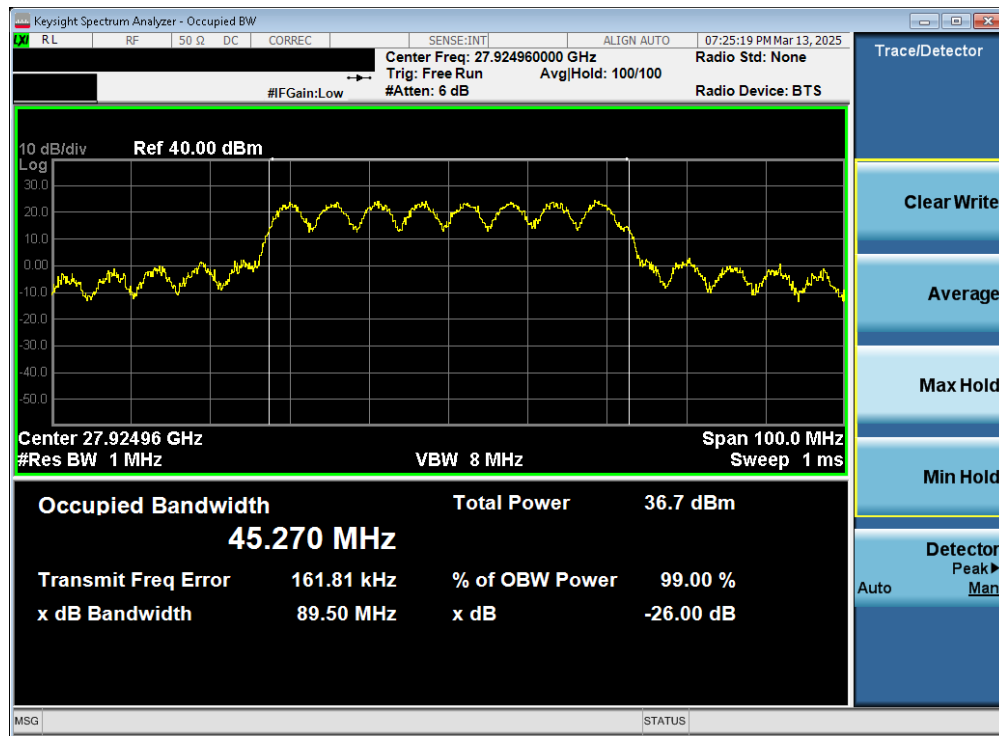
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 47 of 194

Band n261

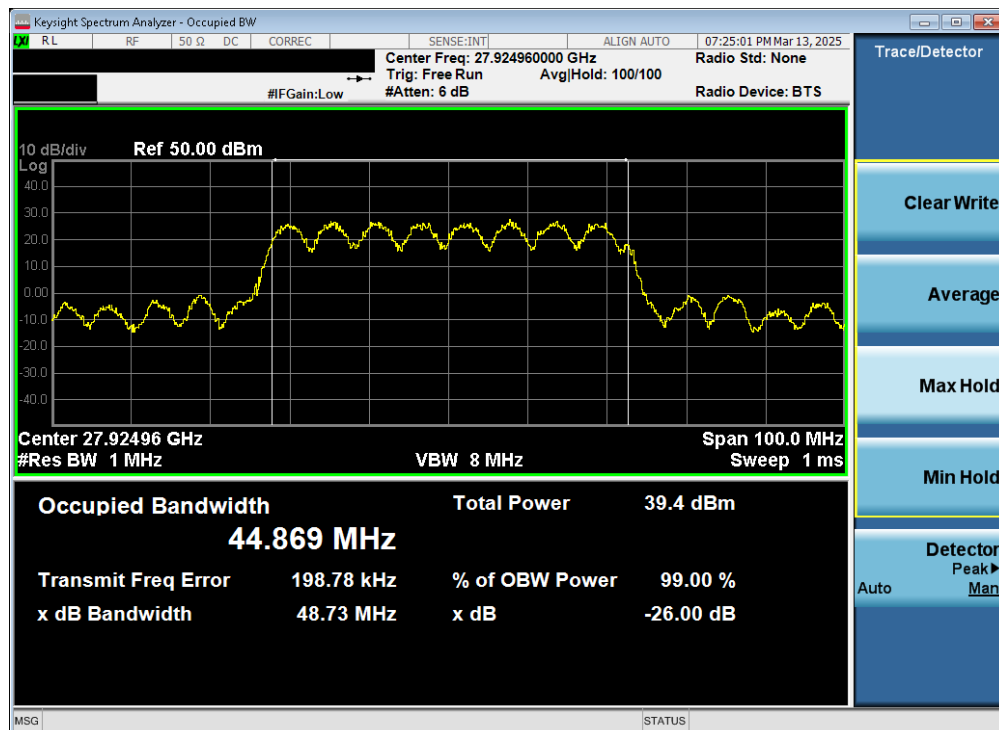
Antenna	Bandwidth [MHz]	CCs Active	Transmission Scheme	Modulation	OBW [MHz]
Ant-1	50	1	CP-OFDM	QPSK	45.27
			DFT-s-OFDM	$\pi/2$ BPSK	44.87
			CP-OFDM	16QAM	45.27
			CP-OFDM	64QAM	44.75
		2	CP-OFDM	QPSK	94.31
			DFT-s-OFDM	$\pi/2$ BPSK	94.36
			CP-OFDM	16QAM	94.31
			CP-OFDM	64QAM	93.87
		3	CP-OFDM	QPSK	143.83
			DFT-s-OFDM	$\pi/2$ BPSK	143.90
			CP-OFDM	16QAM	143.60
			CP-OFDM	64QAM	143.43
		4	CP-OFDM	QPSK	193.77
			DFT-s-OFDM	$\pi/2$ BPSK	194.27
			CP-OFDM	16QAM	193.45
			CP-OFDM	64QAM	193.37
	100	1	CP-OFDM	QPSK	95.58
			DFT-s-OFDM	$\pi/2$ BPSK	91.00
			CP-OFDM	16QAM	95.47
			CP-OFDM	64QAM	95.02
		2	CP-OFDM	QPSK	194.53
			DFT-s-OFDM	$\pi/2$ BPSK	190.52
			CP-OFDM	16QAM	194.72
			CP-OFDM	64QAM	194.15
		3	CP-OFDM	QPSK	293.75
			DFT-s-OFDM	$\pi/2$ BPSK	289.92
			CP-OFDM	16QAM	293.73
			CP-OFDM	64QAM	293.64
		4	CP-OFDM	QPSK	395.58
			DFT-s-OFDM	$\pi/2$ BPSK	392.39
			CP-OFDM	16QAM	396.21
			CP-OFDM	64QAM	398.44

Table 7-4. Summary of Ant1 Occupied Bandwidths (n261)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 48 of 194

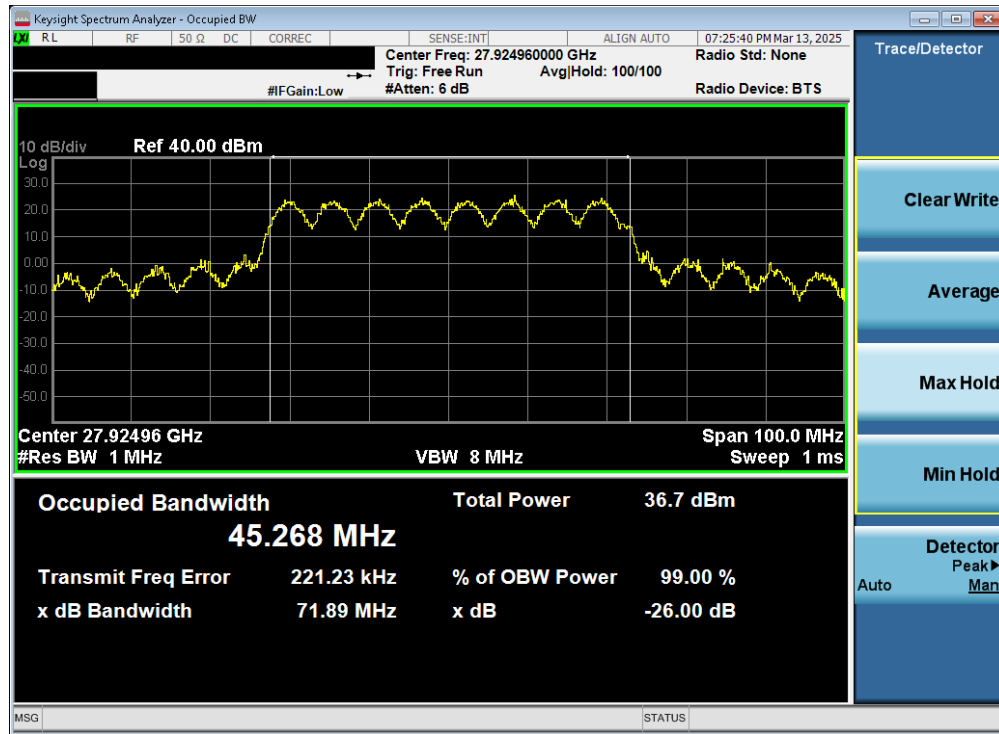


Plot 7-57. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM QPSK– Mid Channel)

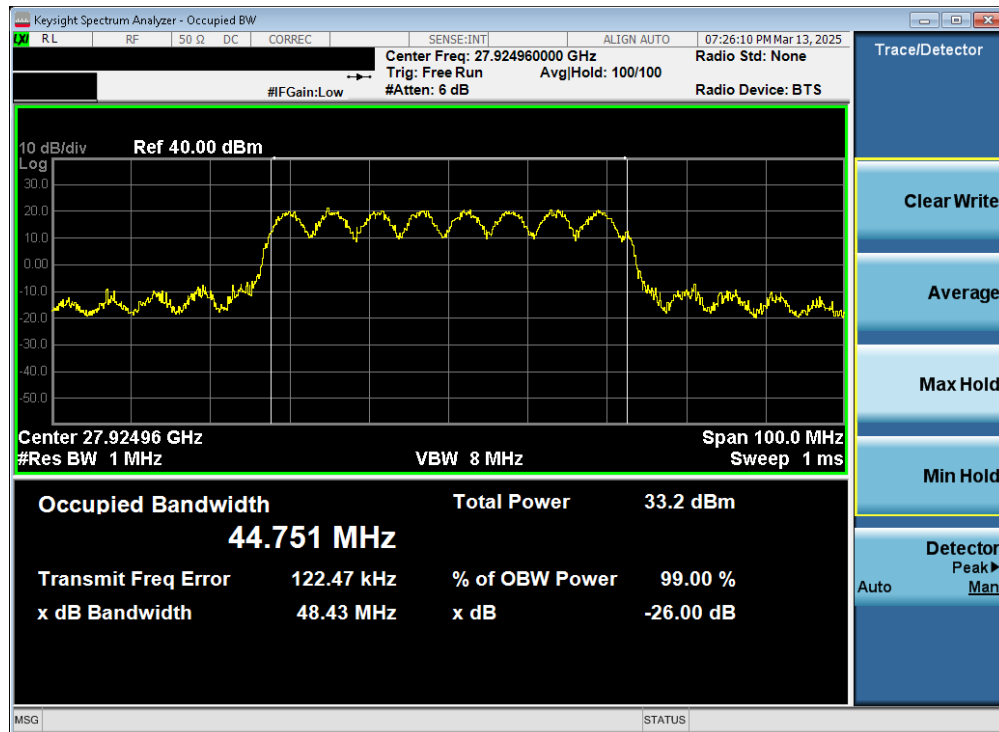


Plot 7-58. Ant1 Occupied Bandwidth Plot (50MHz-1CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 49 of 194

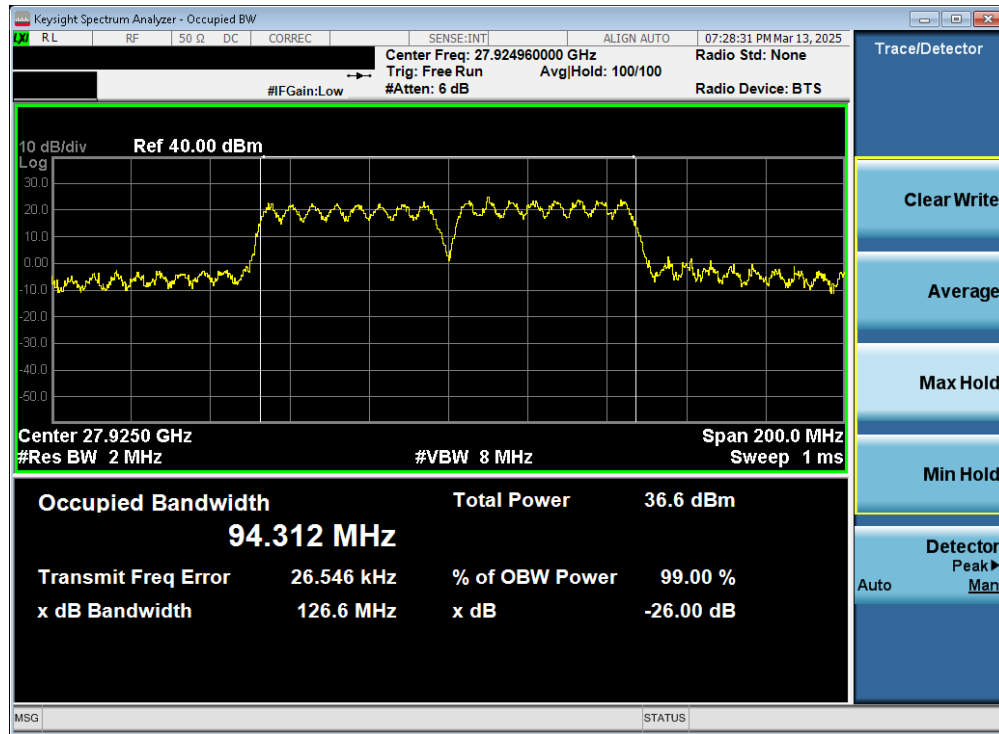


Plot 7-59. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM 16QAM– Mid Channel)

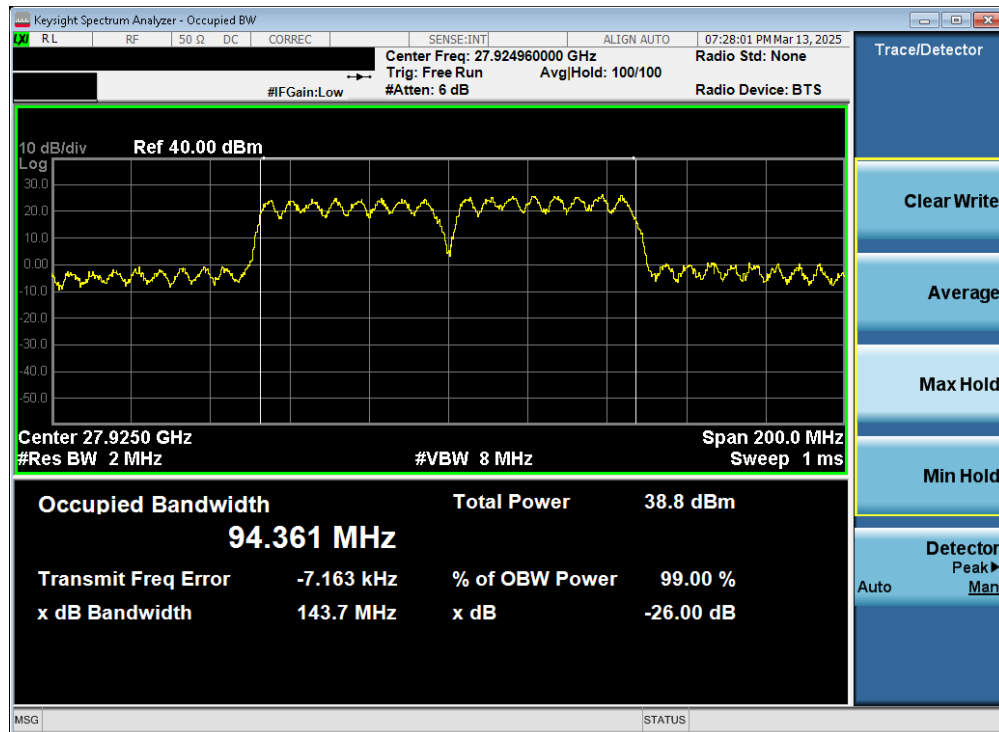


Plot 7-60. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 50 of 194

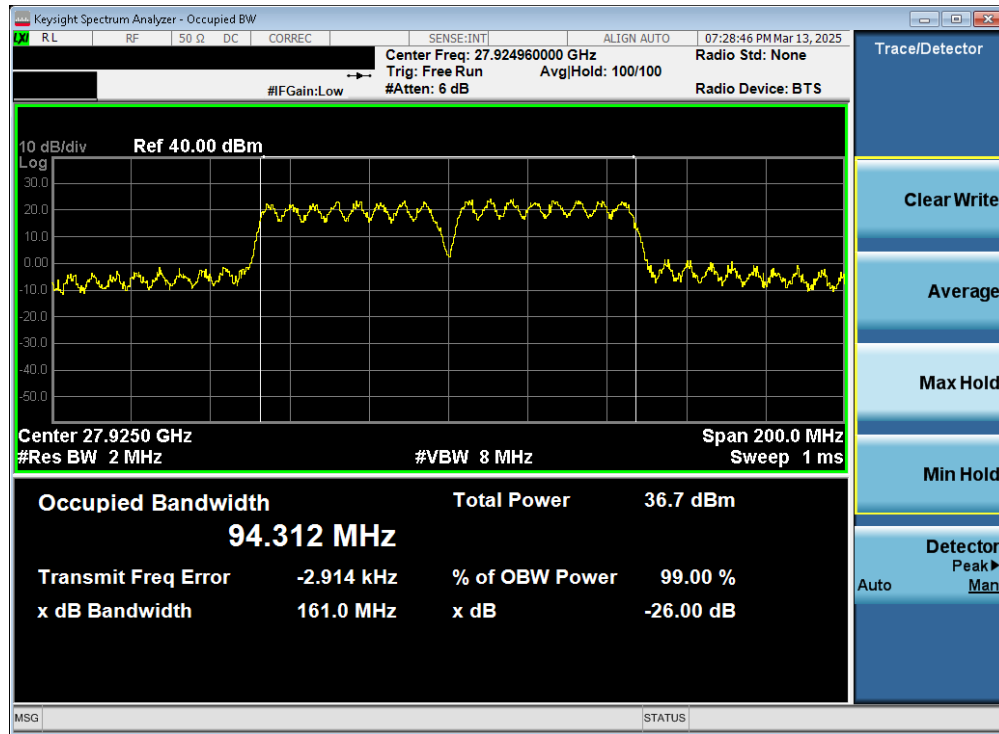


Plot 7-61. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM QPSK– Mid Channel)

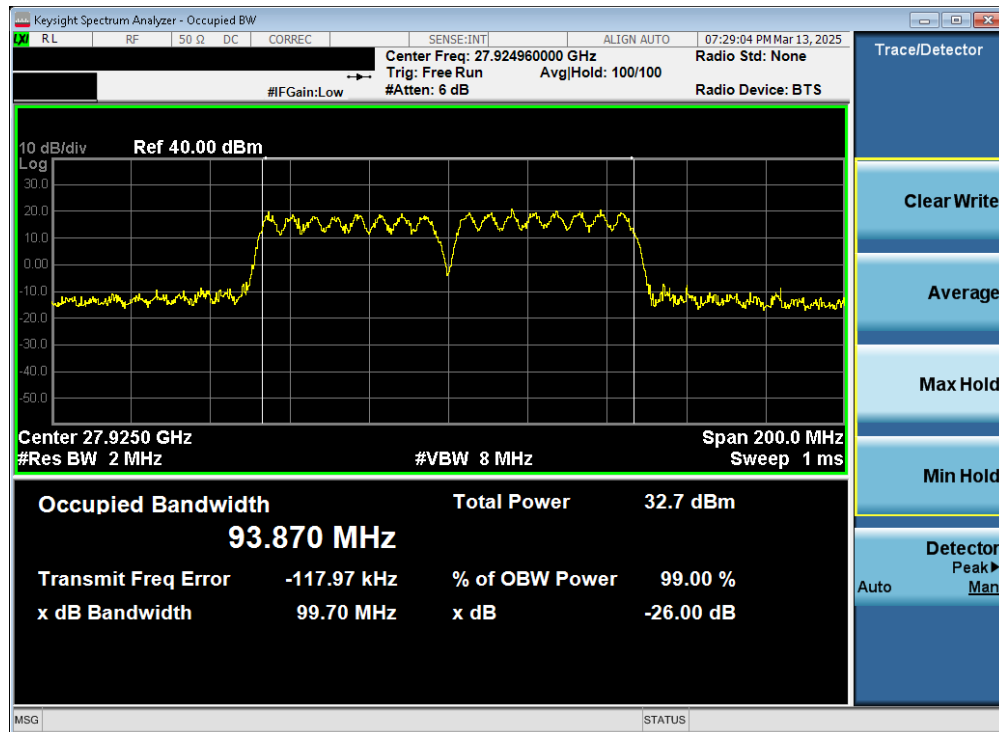


Plot 7-62. Ant1 Occupied Bandwidth Plot (50MHz-2CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 51 of 194

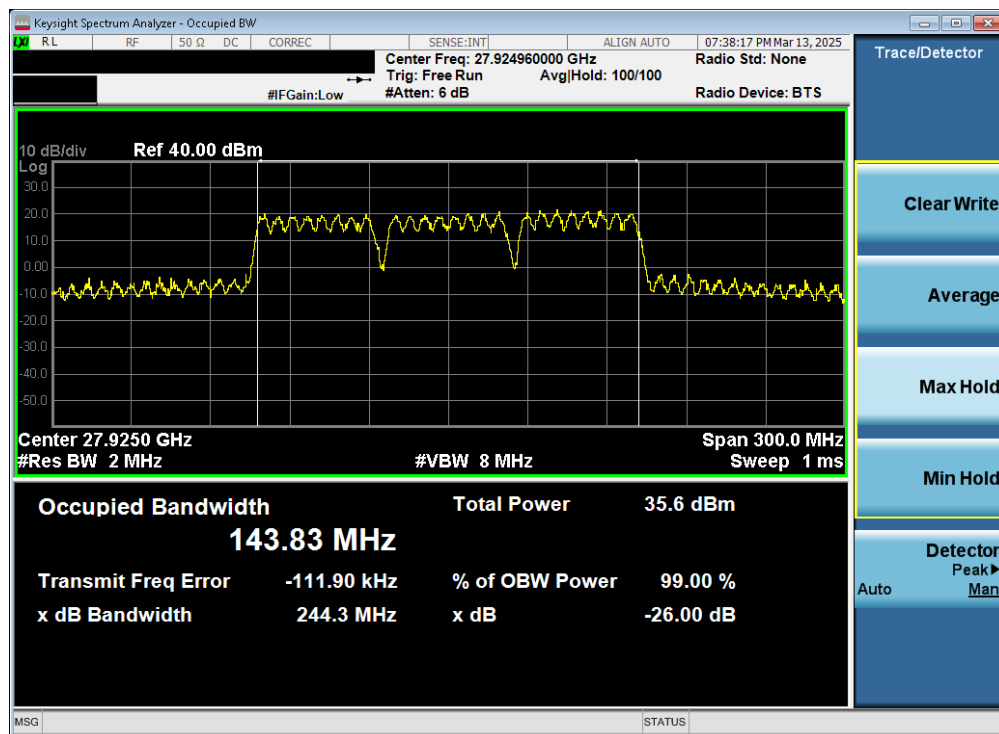


Plot 7-63. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM 16QAM– Mid Channel)

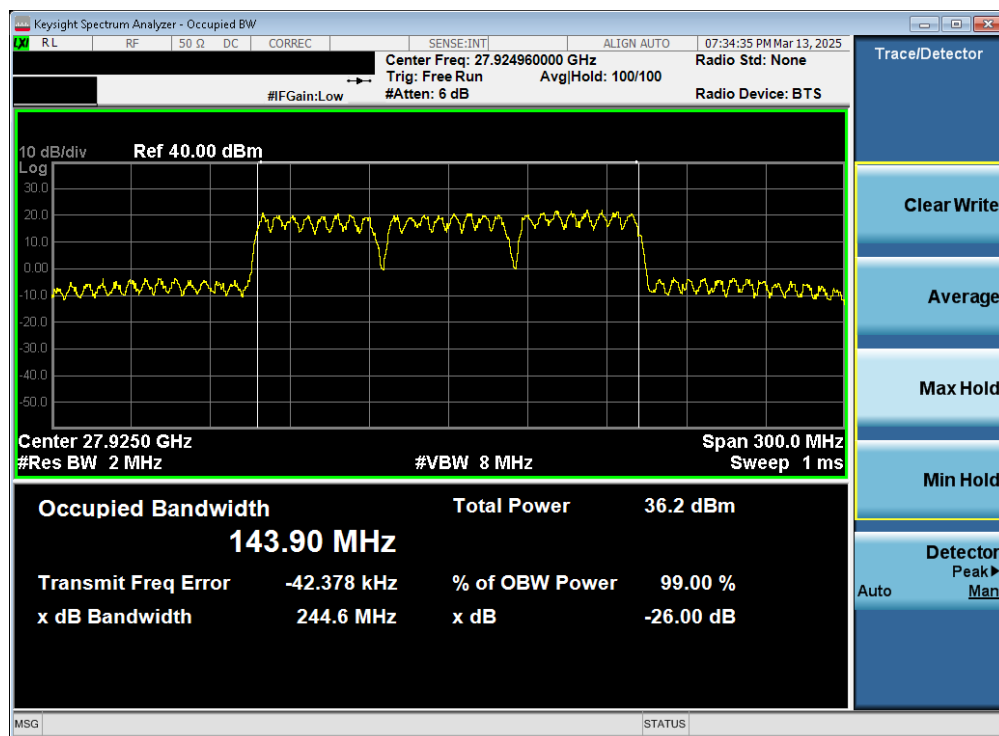


Plot 7-64. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 52 of 194

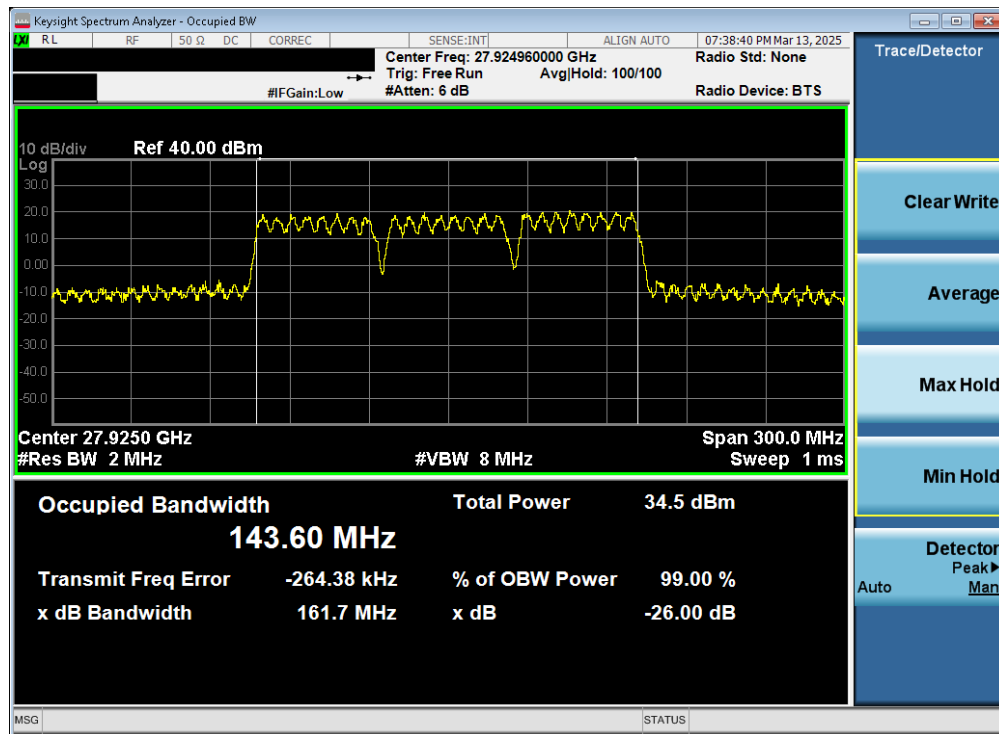


Plot 7-65. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM QPSK– Mid Channel)

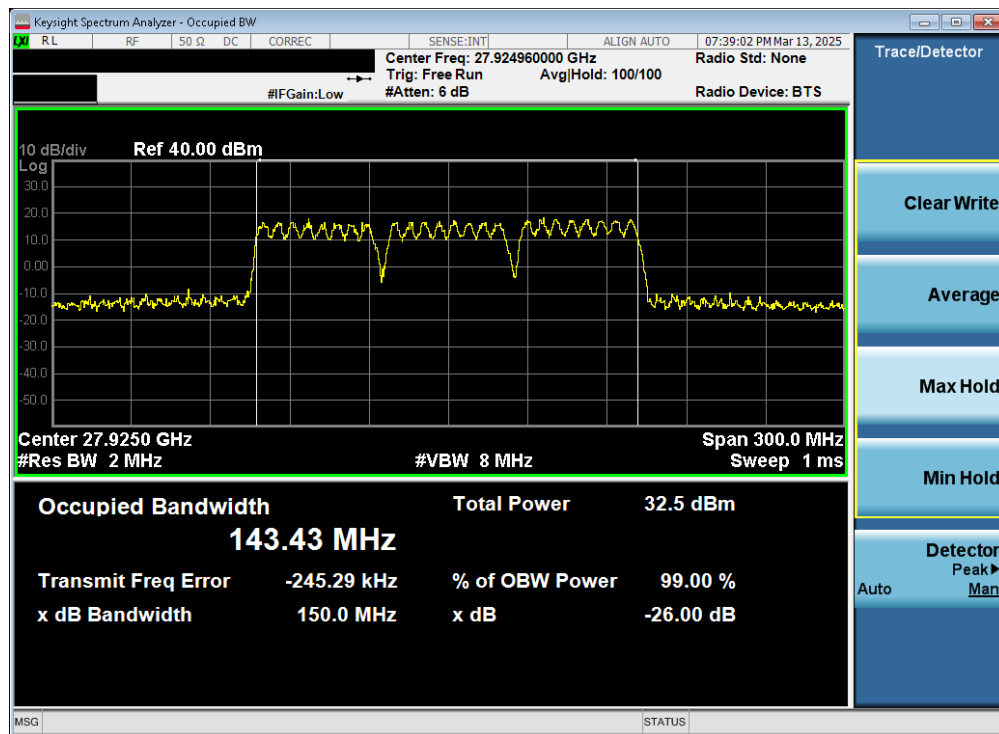


Plot 7-66. Ant1 Occupied Bandwidth Plot (50MHz-3CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 53 of 194

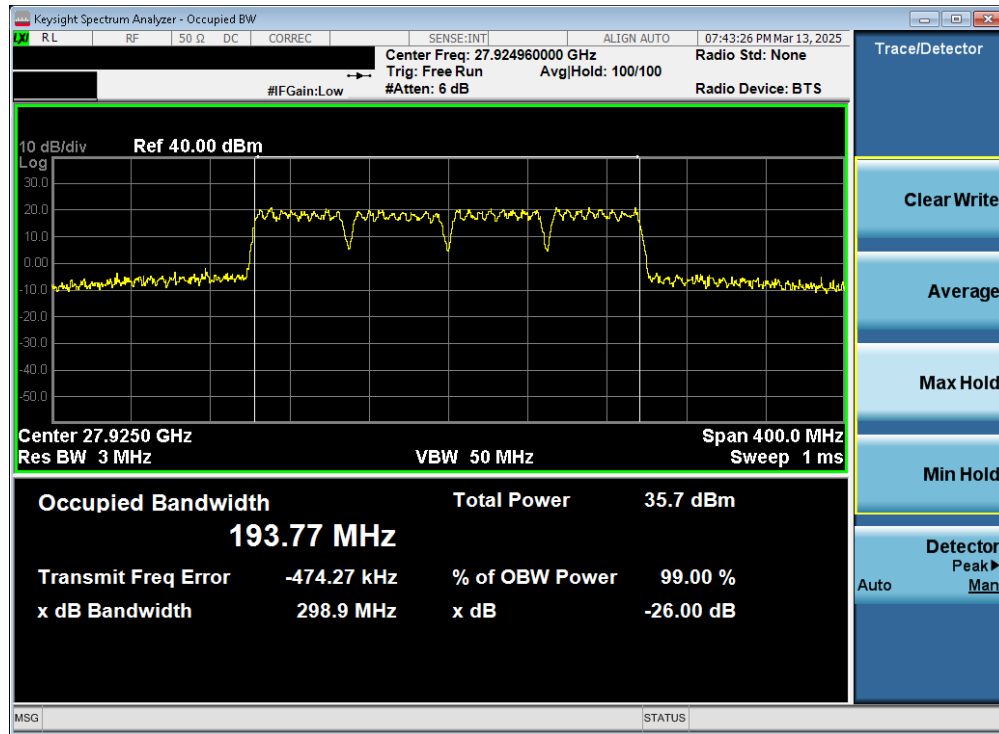


Plot 7-67. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM 16QAM– Mid Channel)

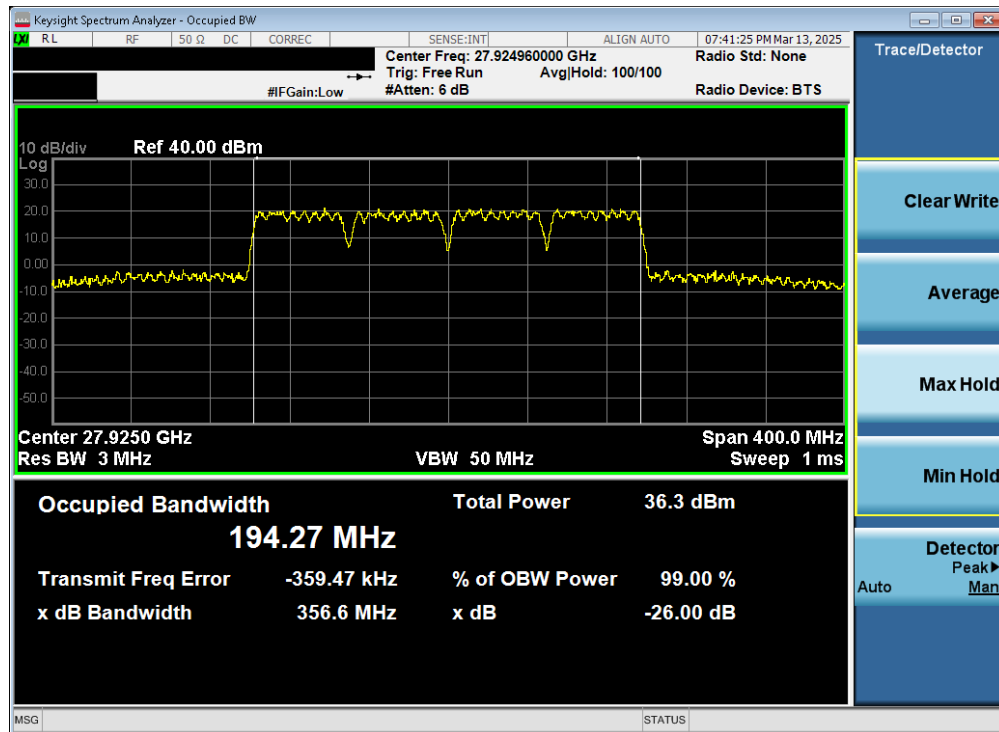


Plot 7-68. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 54 of 194

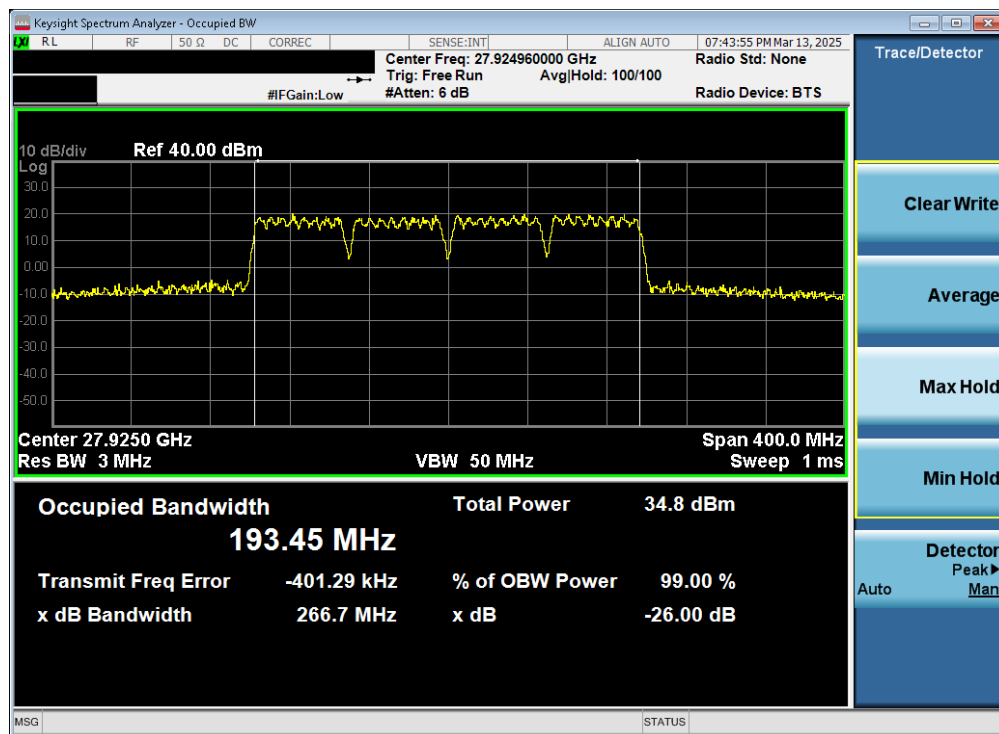


Plot 7-69. Ant1 Occupied Bandwidth Plot (50MHz-CC – CP-OFDM QPSK– Mid Channel)

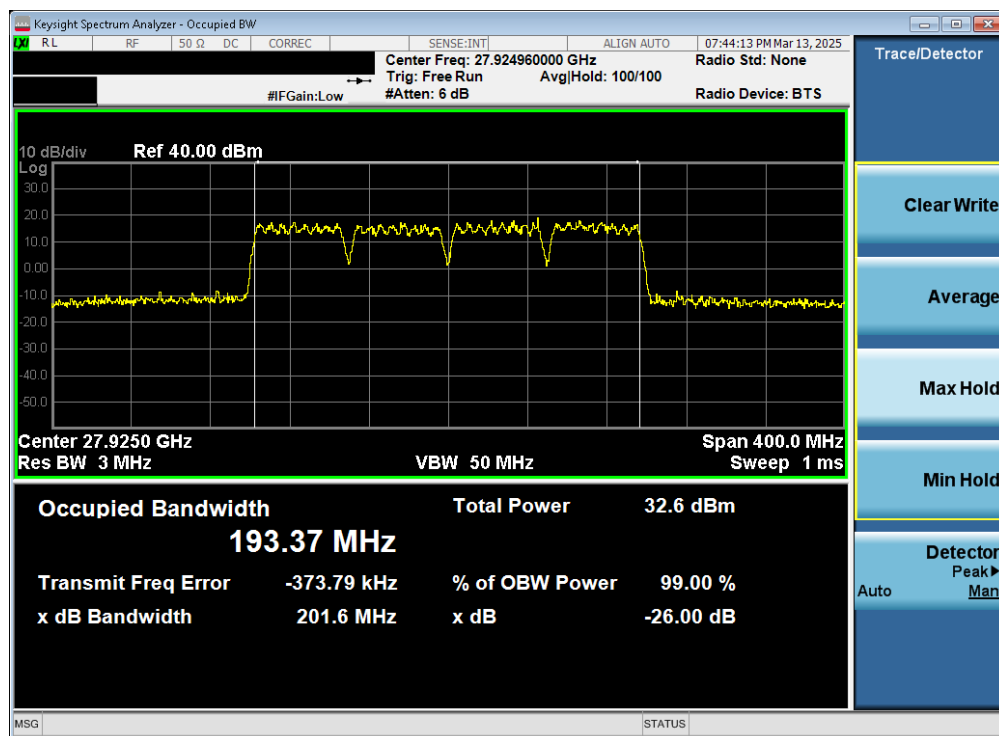


Plot 7-70. Ant1 Occupied Bandwidth Plot (50MHz-4CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 55 of 194

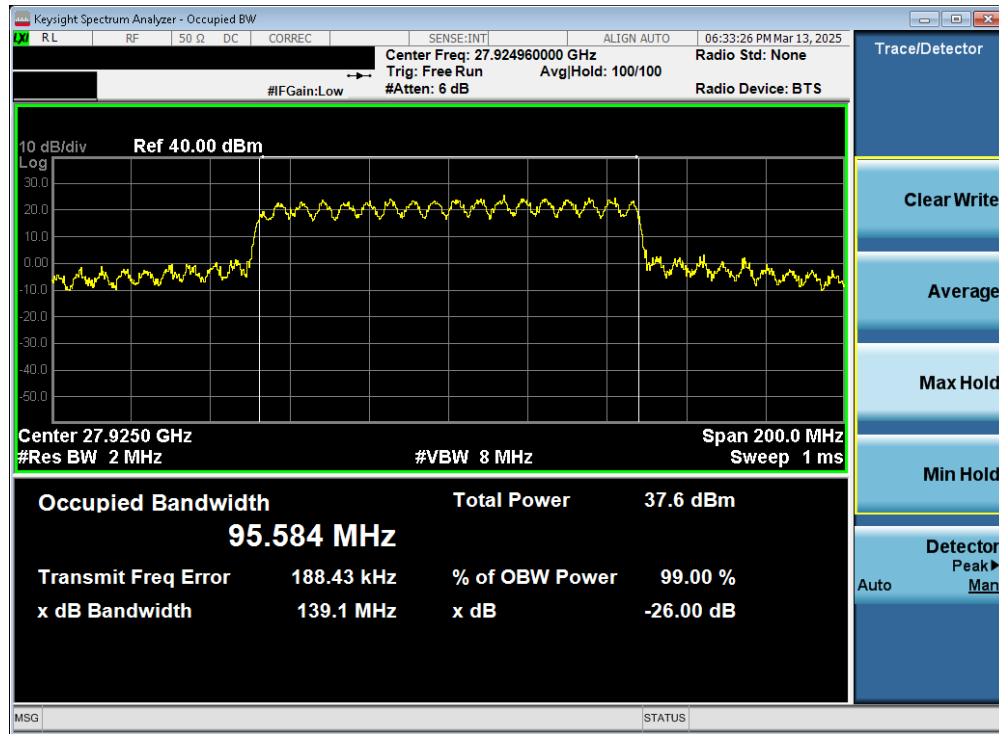


Plot 7-71. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM 16QAM– Mid Channel)

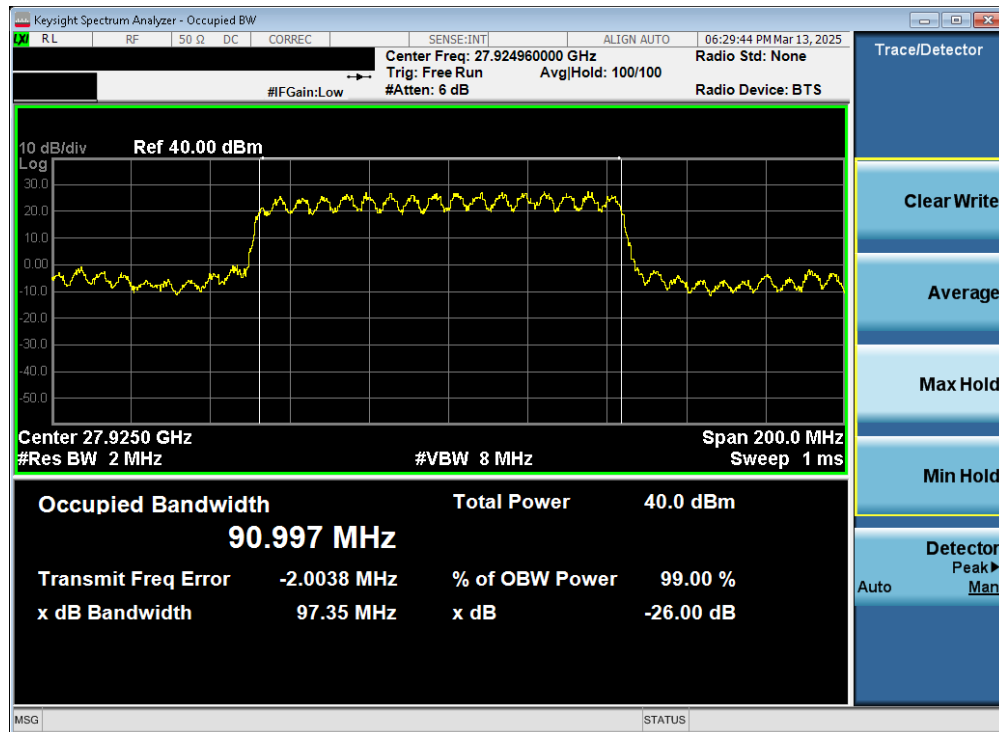


Plot 7-72. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 56 of 194

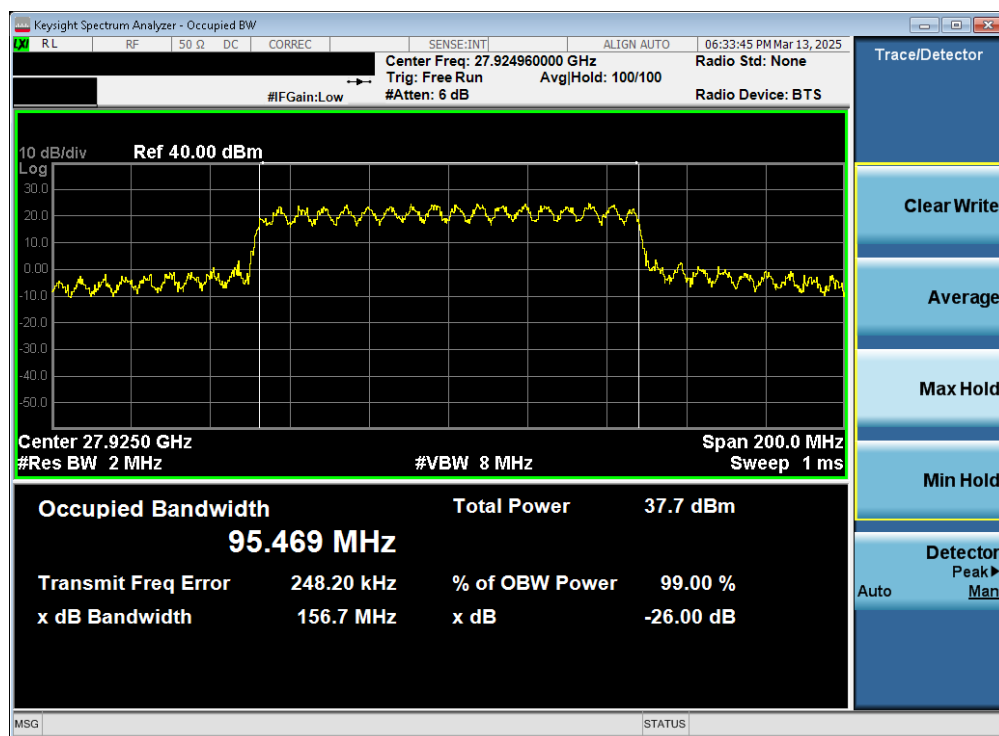


Plot 7-73. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM QPSK– Mid Channel)

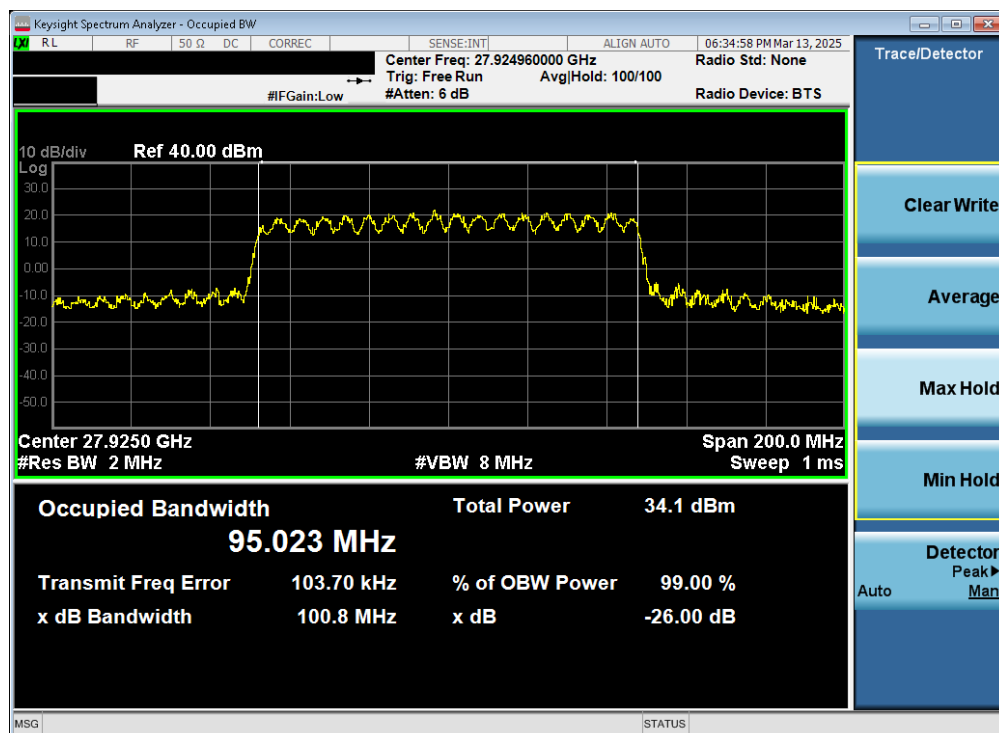


Plot 7-74. Ant1 Occupied Bandwidth Plot (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 57 of 194

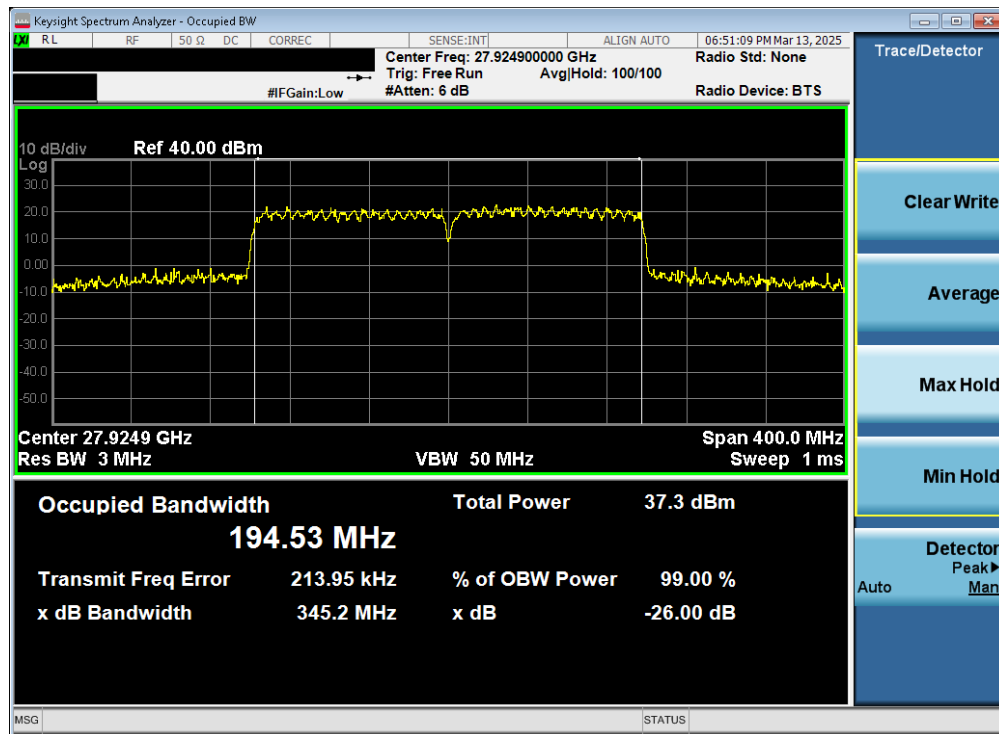


Plot 7-75. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM 16QAM– Mid Channel)

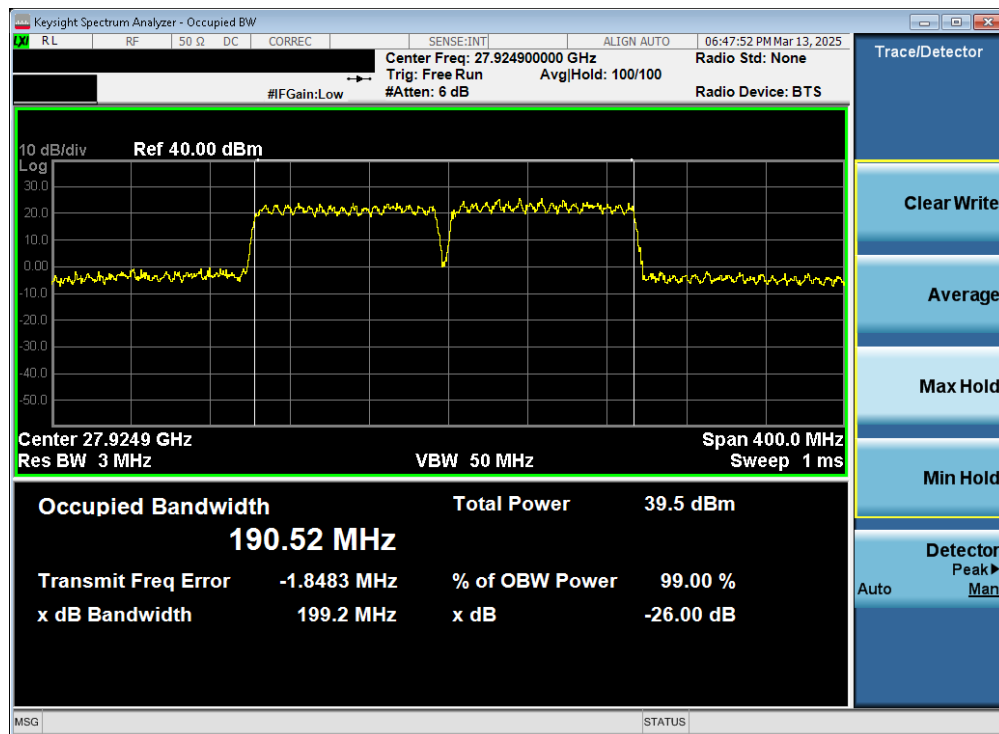


Plot 7-76. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 58 of 194

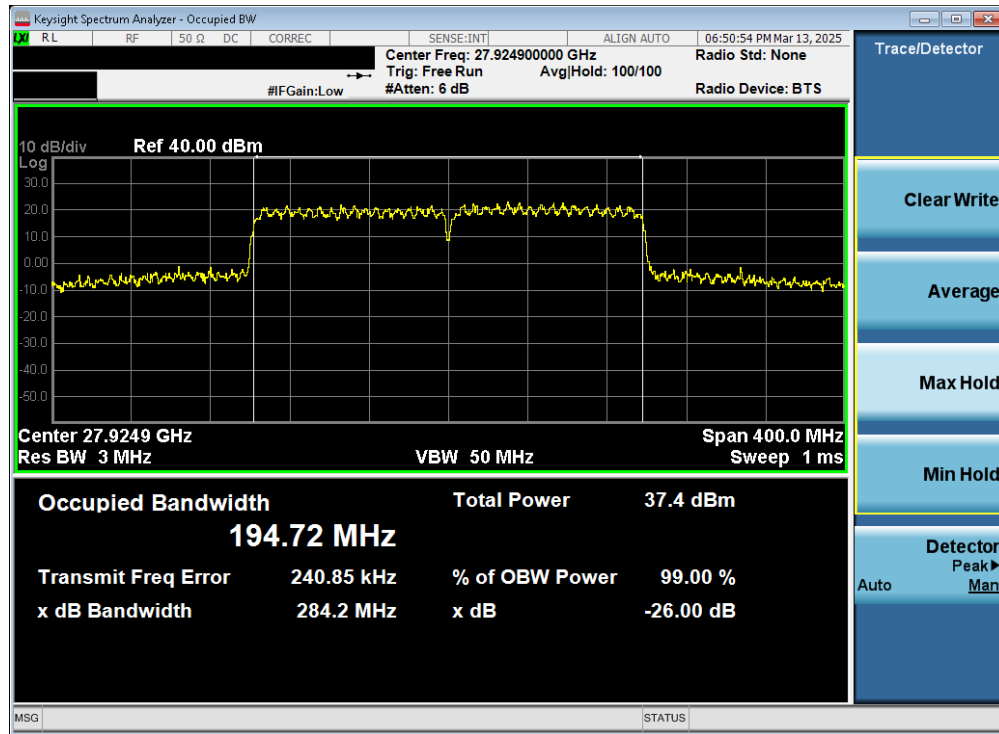


Plot 7-77. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM QPSK – Mid Channel)

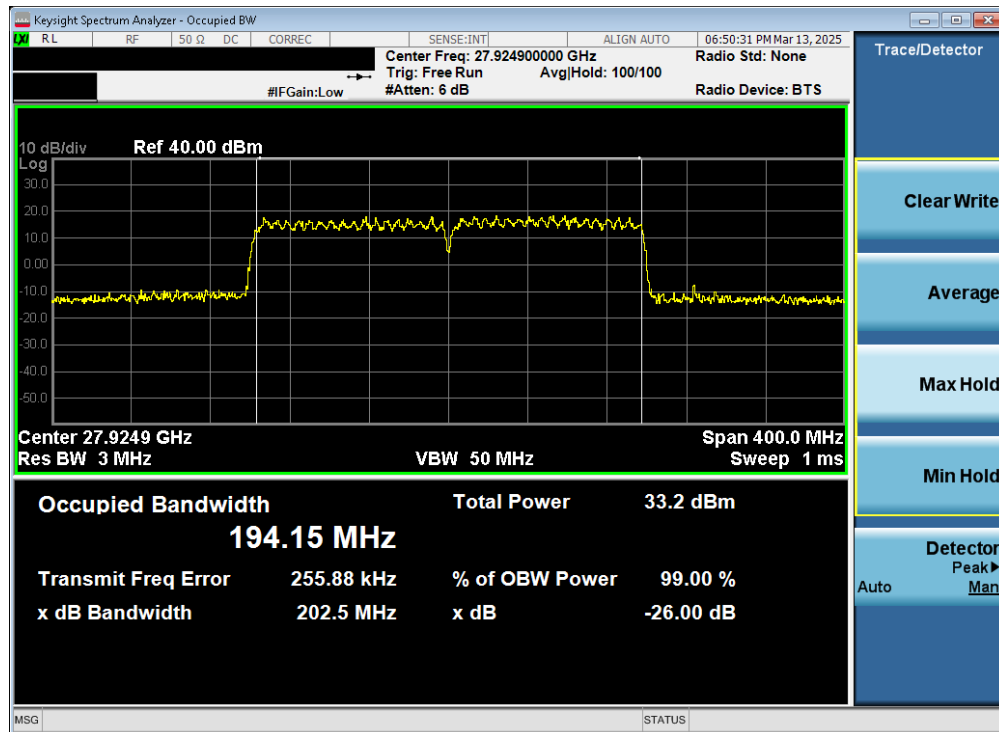


Plot 7-78. Ant1 Occupied Bandwidth Plot (100MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 59 of 194

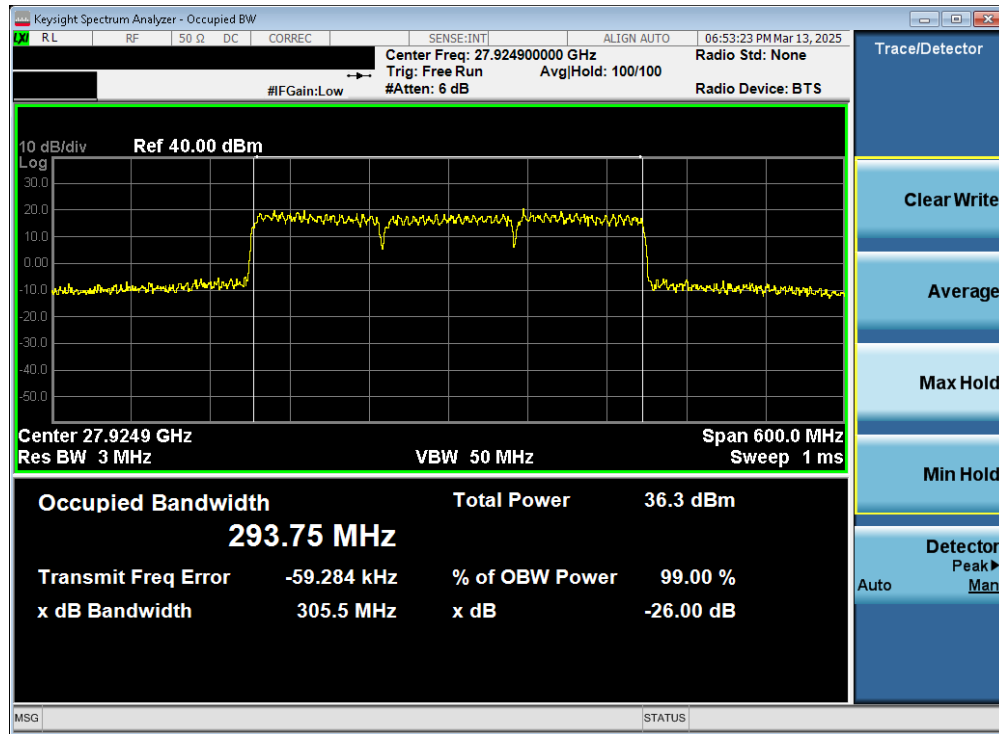


Plot 7-79. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 16QAM – Mid Channel)

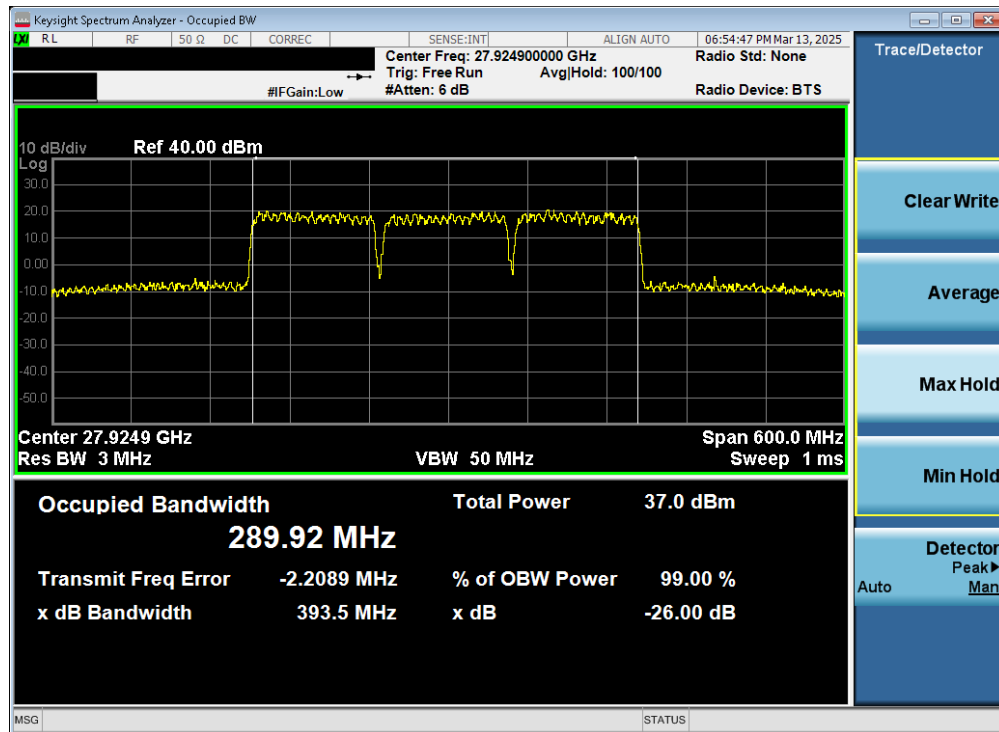


Plot 7-80. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 60 of 194

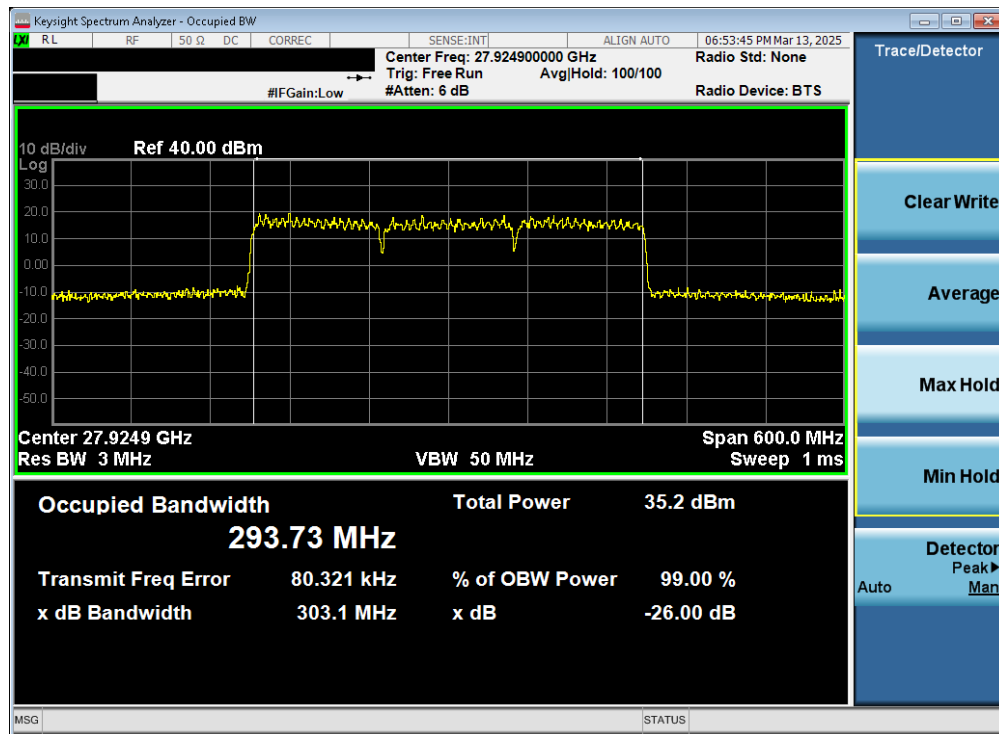


Plot 7-81. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM QPSK – Mid Channel)

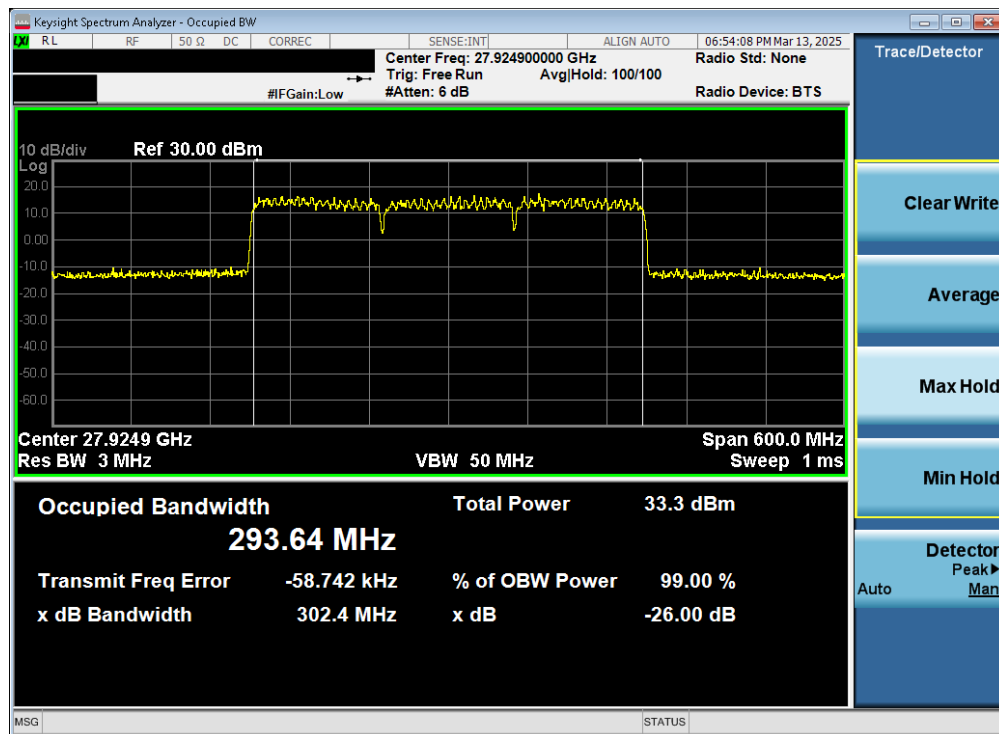


Plot 7-82. Ant1 Occupied Bandwidth Plot (100MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 61 of 194

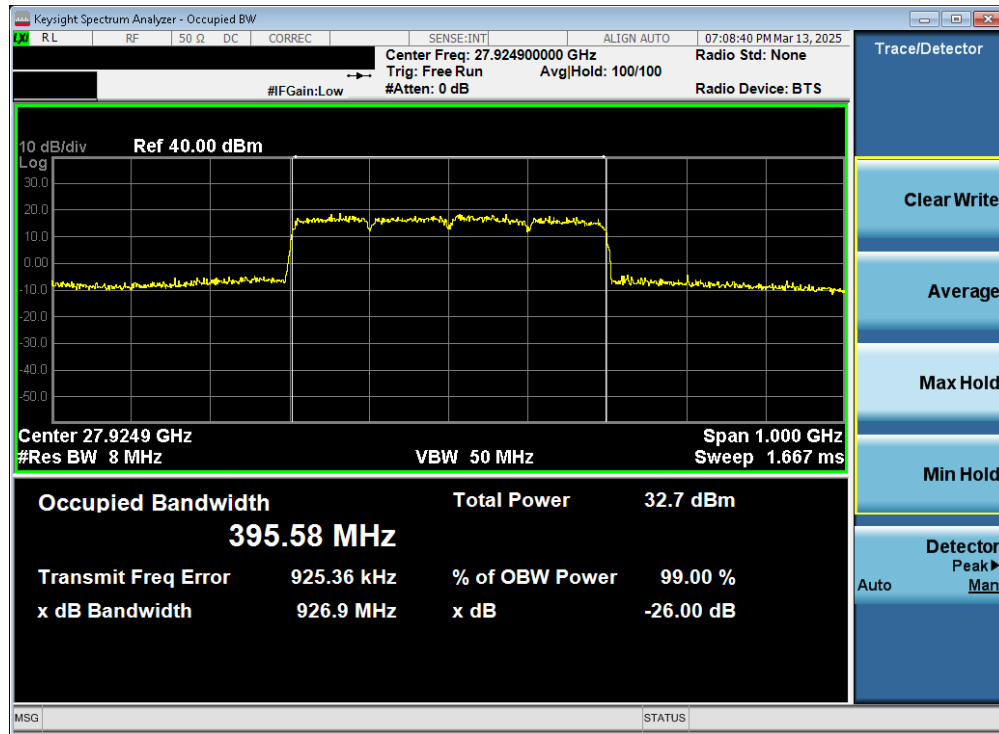


Plot 7-83. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM 16QAM – Mid Channel)

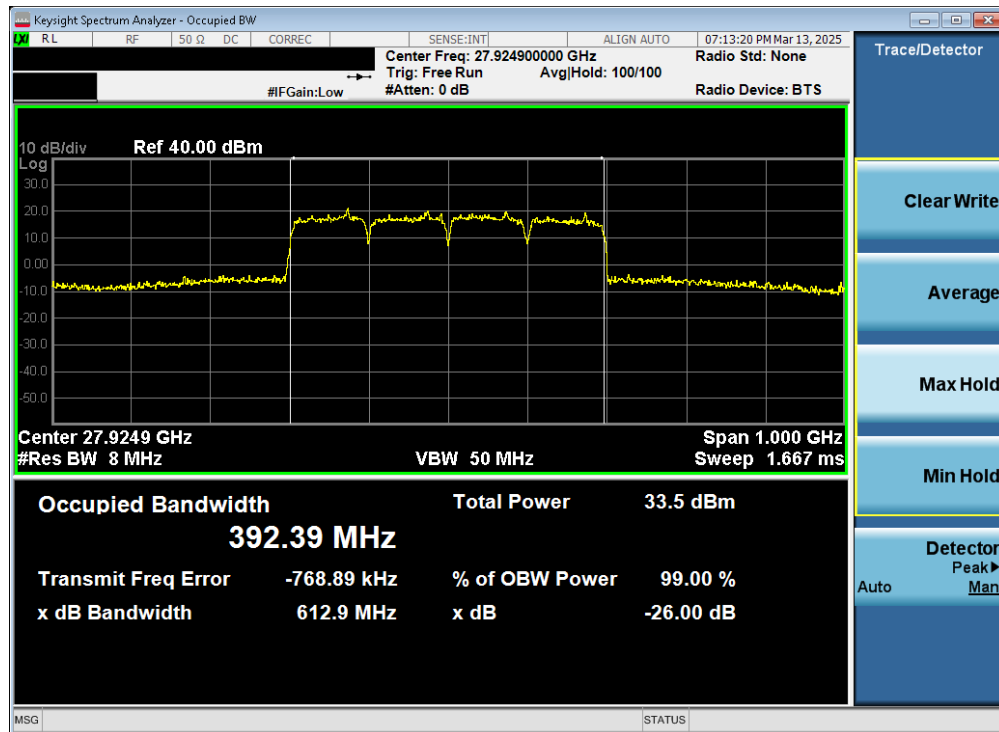


Plot 7-84. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 62 of 194

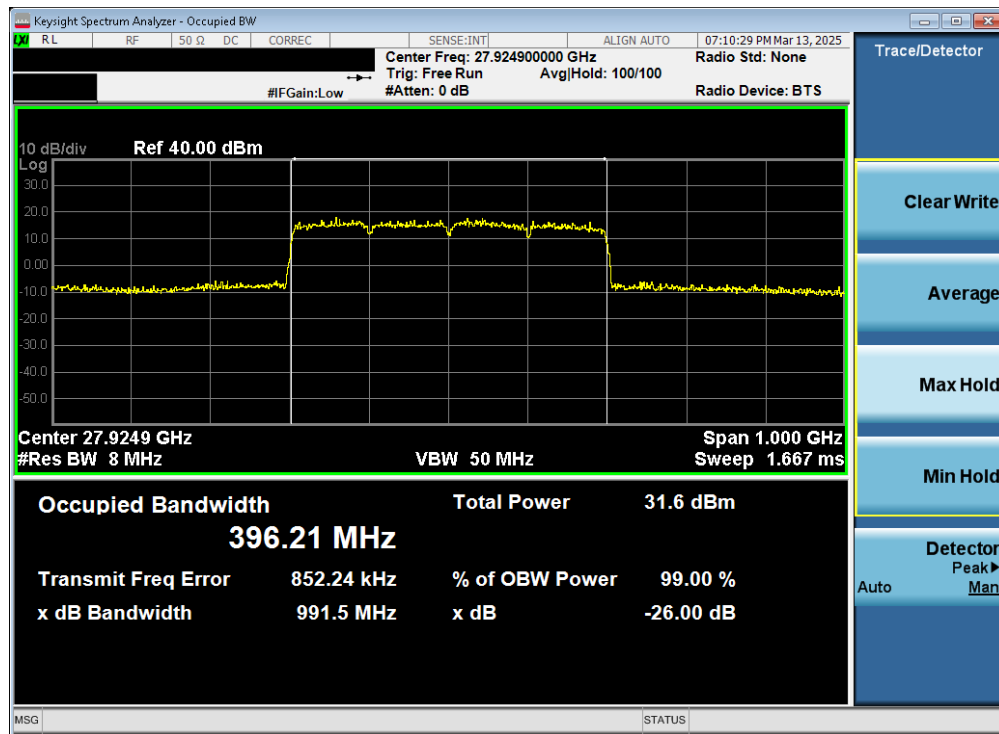


Plot 7-85. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM QPSK – Mid Channel)

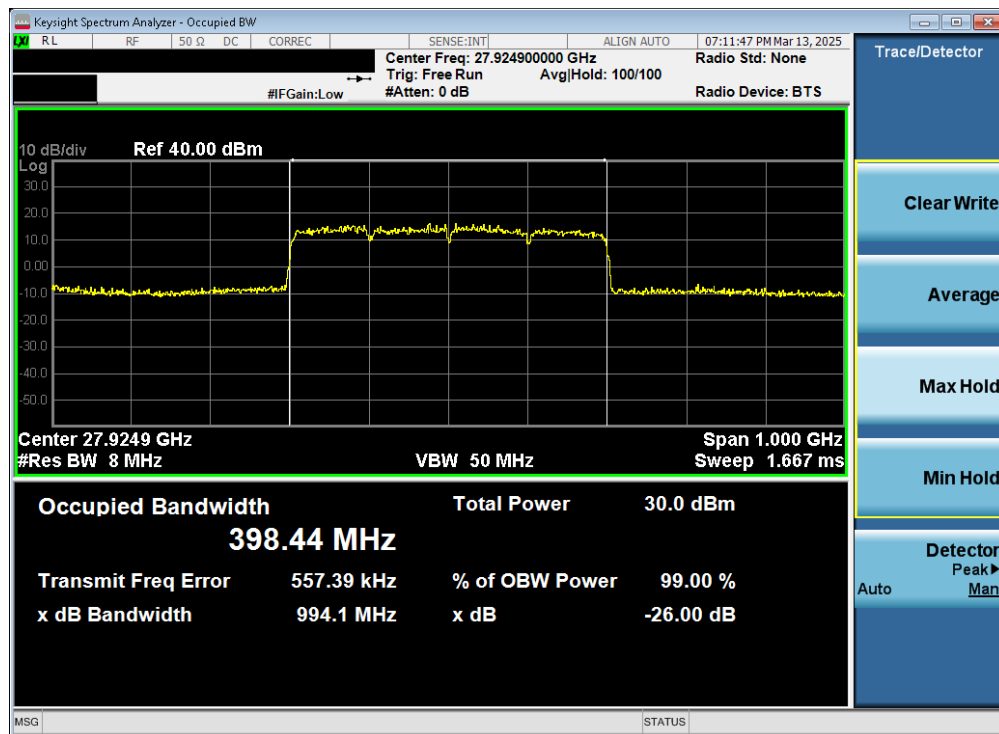


Plot 7-86. Ant1 Occupied Bandwidth Plot (100MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 63 of 194



Plot 7-87. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM 16QAM – Mid Channel)



Plot 7-88. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM 64QAM – Mid Channel)

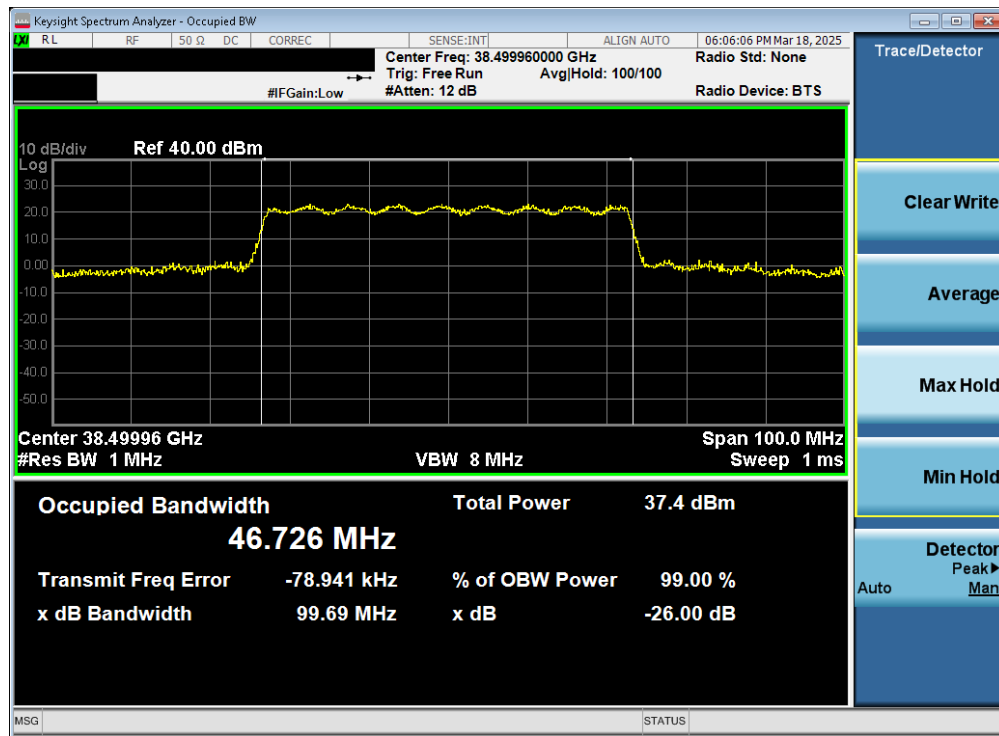
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 64 of 194

Band n260

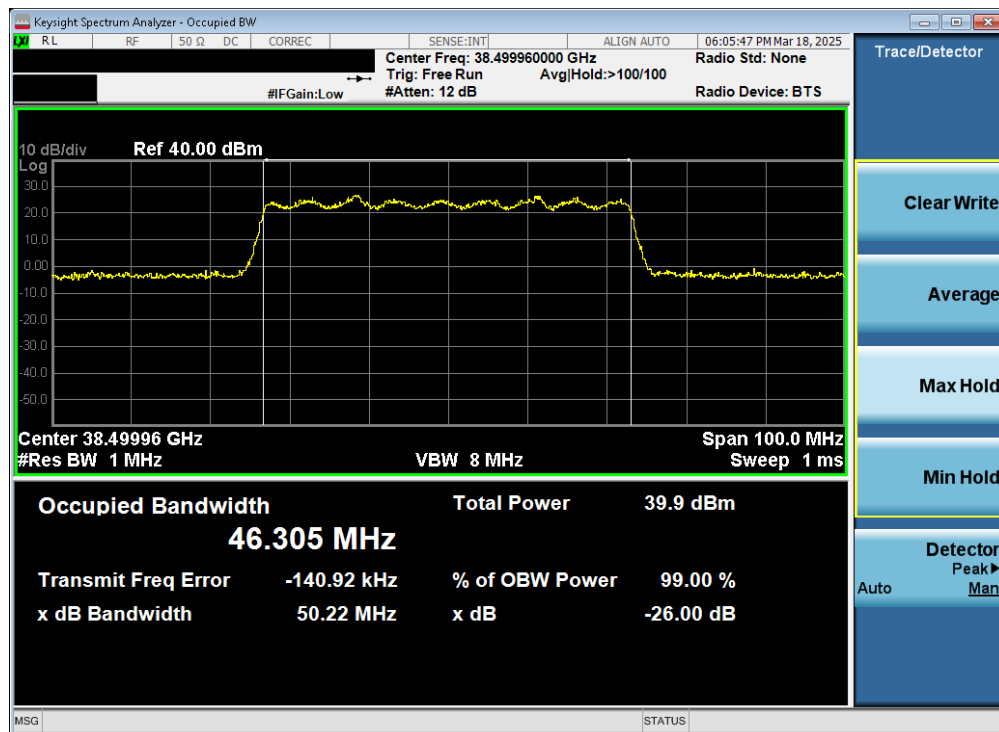
Antenna	Bandwidth [MHz]	CCs Active	Transmission Scheme	Modulation	OBW [MHz]
Ant-1	50	1	CP-OFDM	QPSK	46.73
			DFT-s-OFDM	$\pi/2$ BPSK	46.31
			CP-OFDM	16QAM	46.57
			CP-OFDM	64QAM	46.85
		2	CP-OFDM	QPSK	97.21
			DFT-s-OFDM	$\pi/2$ BPSK	96.50
			CP-OFDM	16QAM	97.16
			CP-OFDM	64QAM	97.75
		3	CP-OFDM	QPSK	147.68
			DFT-s-OFDM	$\pi/2$ BPSK	146.46
			CP-OFDM	16QAM	147.65
			CP-OFDM	64QAM	146.46
		4	CP-OFDM	QPSK	195.99
			DFT-s-OFDM	$\pi/2$ BPSK	196.75
			CP-OFDM	16QAM	195.63
			CP-OFDM	64QAM	195.68
	100	1	CP-OFDM	QPSK	90.99
			DFT-s-OFDM	$\pi/2$ BPSK	91.08
			CP-OFDM	16QAM	95.19
			CP-OFDM	64QAM	94.78
		2	CP-OFDM	QPSK	194.97
			DFT-s-OFDM	$\pi/2$ BPSK	192.04
			CP-OFDM	16QAM	195.35
			CP-OFDM	64QAM	197.31
		3	CP-OFDM	QPSK	295.09
			DFT-s-OFDM	$\pi/2$ BPSK	293.35
			CP-OFDM	16QAM	294.99
			CP-OFDM	64QAM	294.28
		4	CP-OFDM	QPSK	394.21
			DFT-s-OFDM	$\pi/2$ BPSK	394.14
			CP-OFDM	16QAM	393.62
			CP-OFDM	64QAM	393.15

Table 7-5. Summary of Ant1 Occupied Bandwidths (n261)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 65 of 194

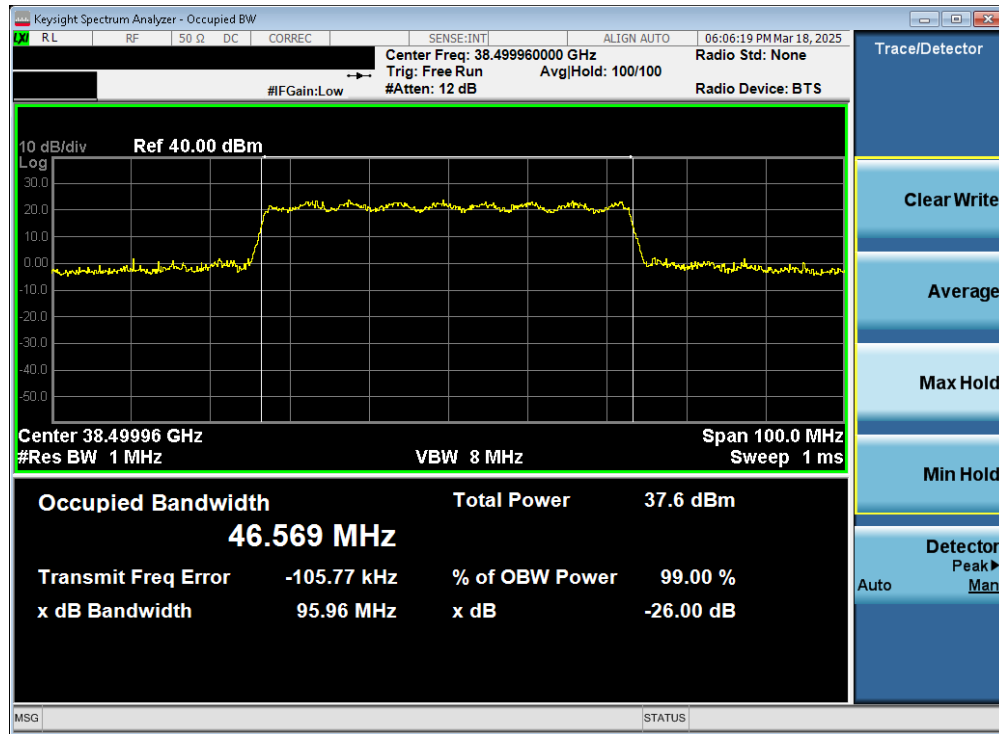


Plot 7-89. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM QPSK– Mid Channel)

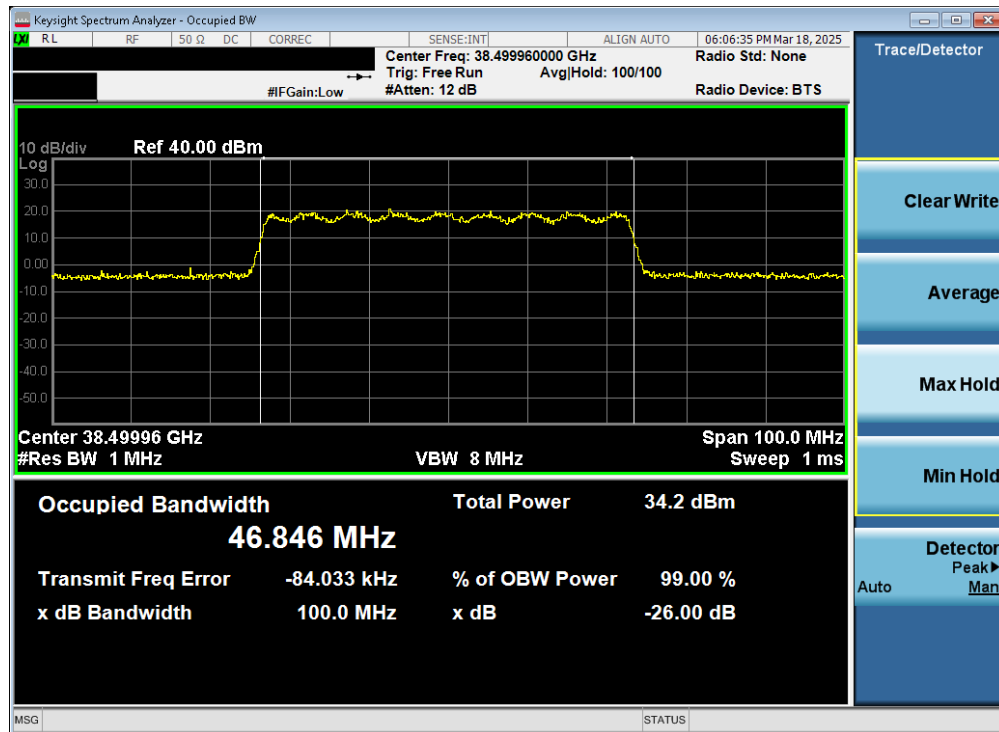


Plot 7-90. Ant1 Occupied Bandwidth Plot (50MHz-1CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 66 of 194

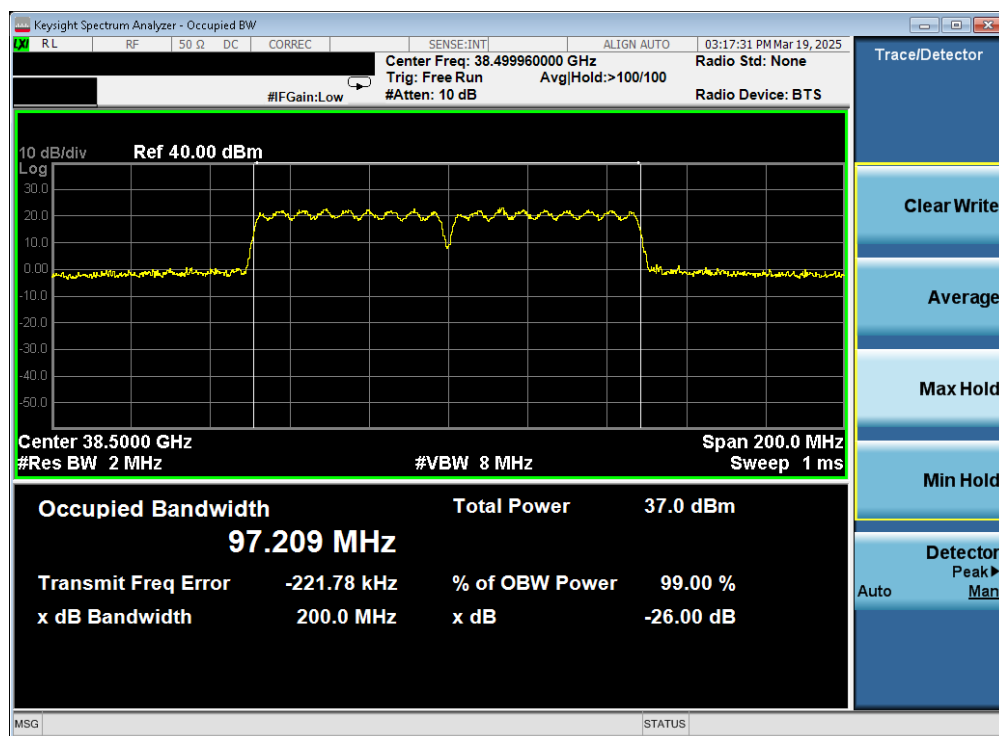


Plot 7-91. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM 16QAM– Mid Channel)

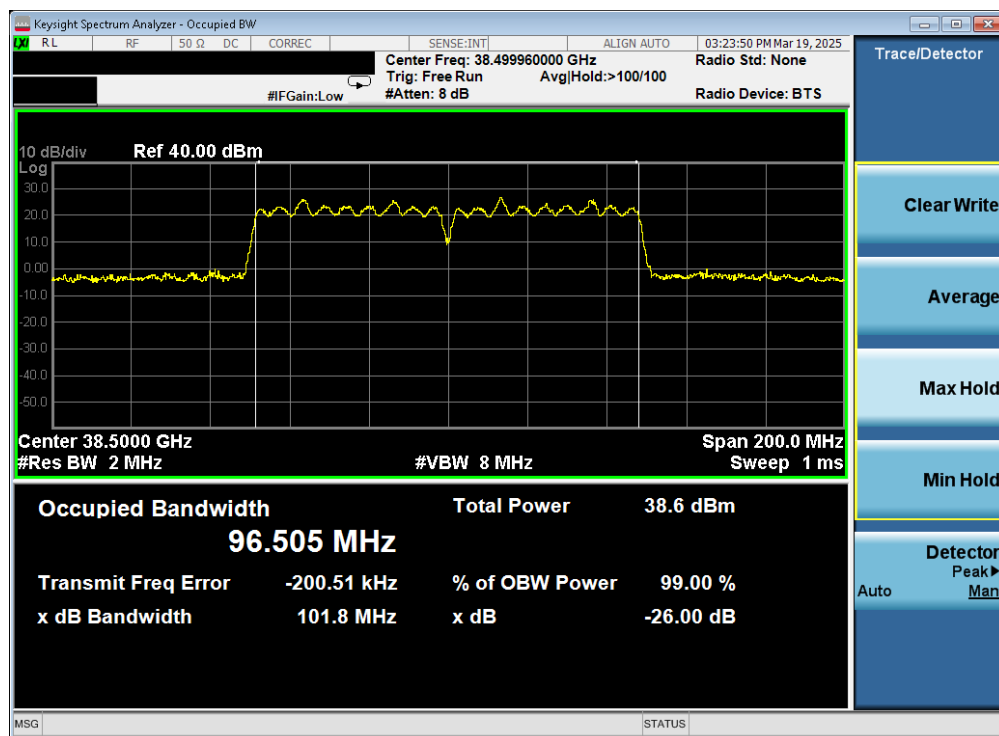


Plot 7-92. Ant1 Occupied Bandwidth Plot (50MHz-1CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 67 of 194

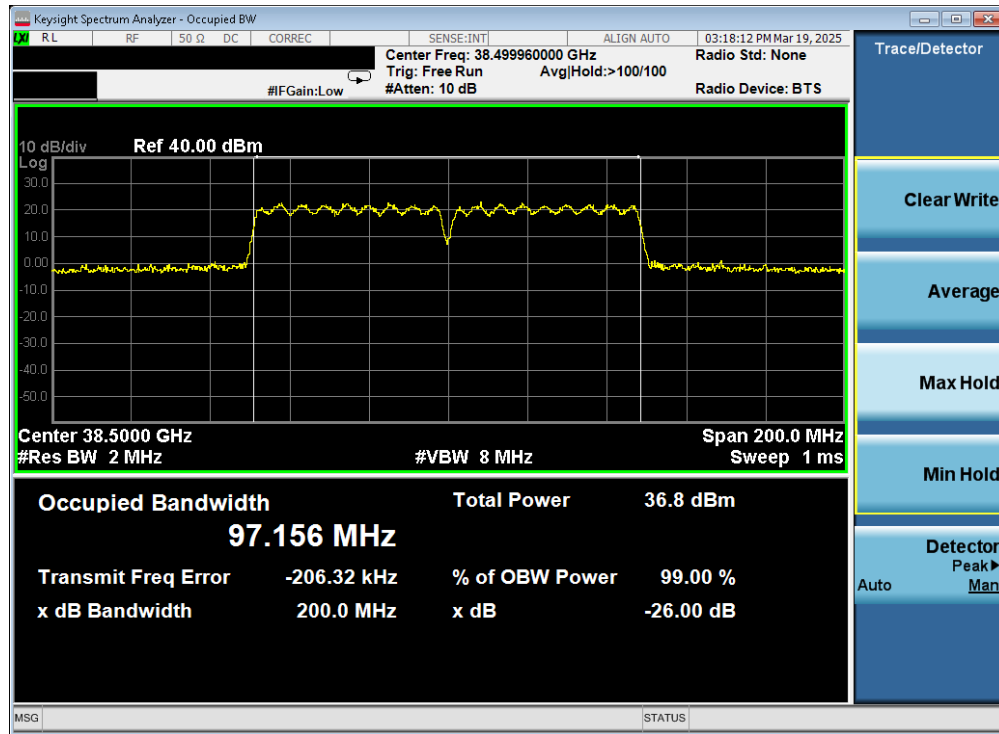


Plot 7-93. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM QPSK– Mid Channel)

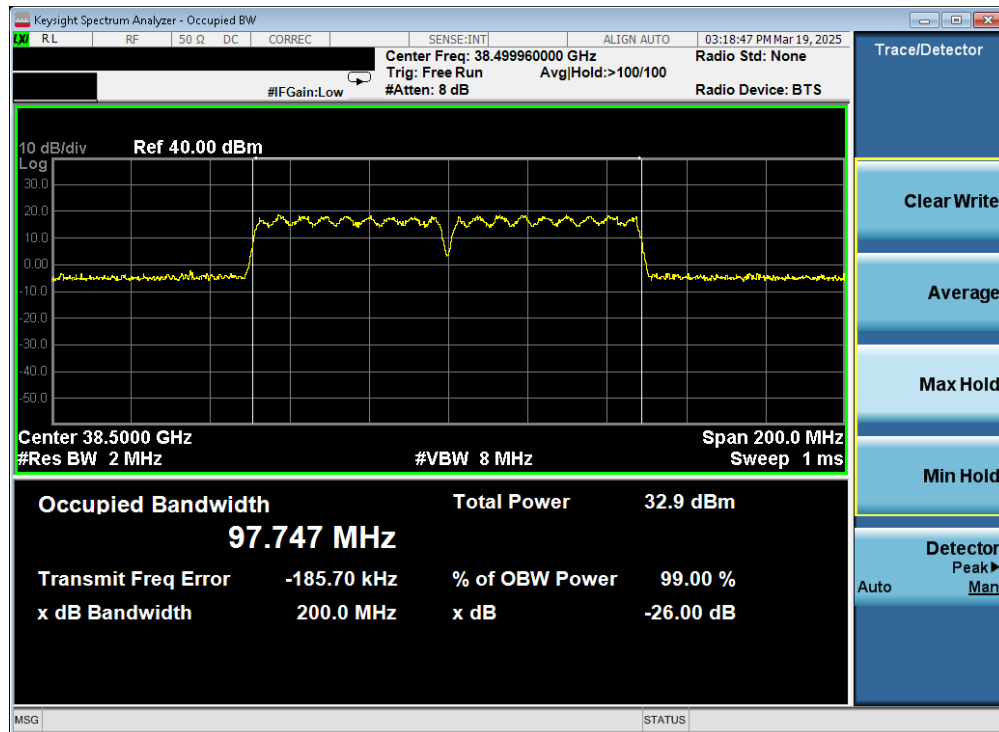


Plot 7-94. Ant1 Occupied Bandwidth Plot (50MHz-2CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 68 of 194

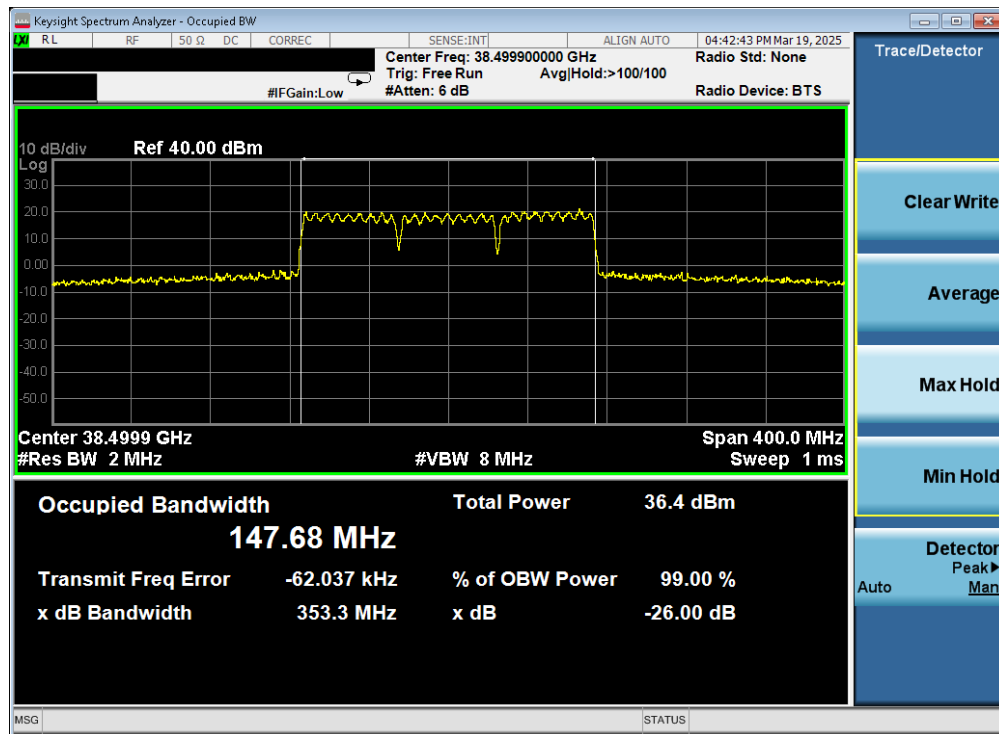


Plot 7-95. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM 16QAM– Mid Channel)

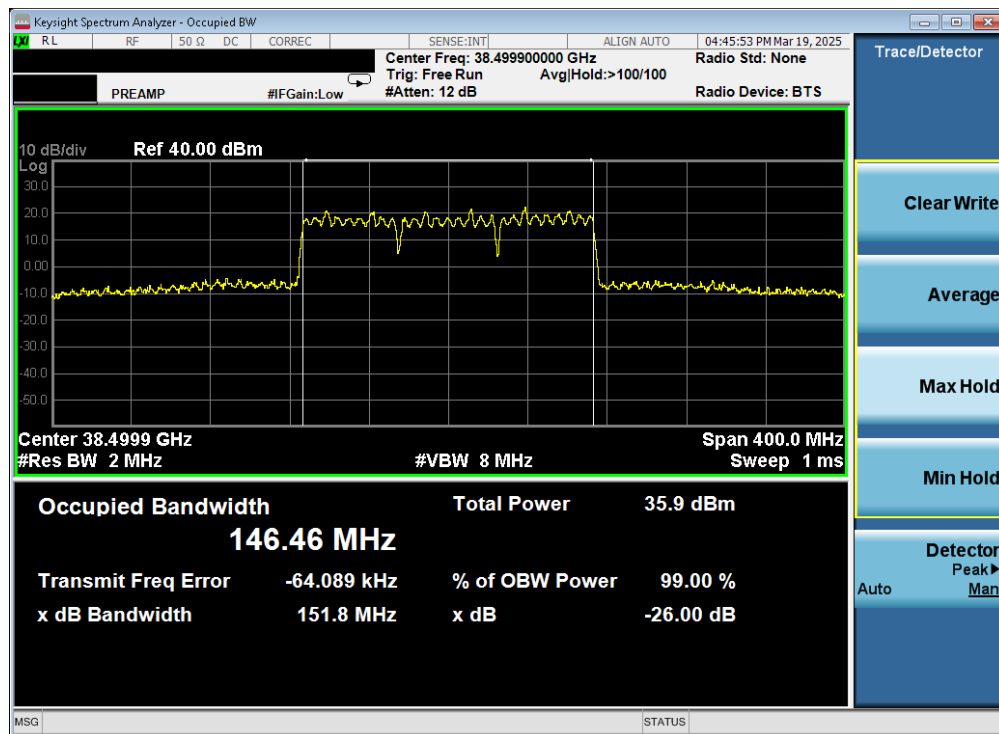


Plot 7-96. Ant1 Occupied Bandwidth Plot (50MHz-2CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 69 of 194

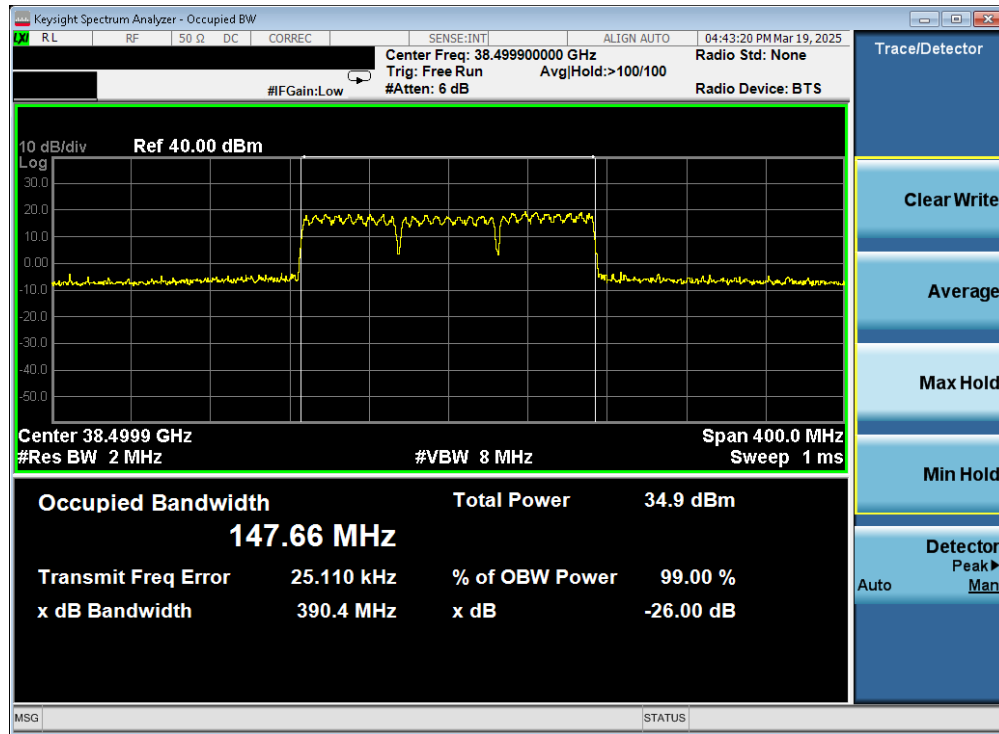


Plot 7-97. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM QPSK– Mid Channel)

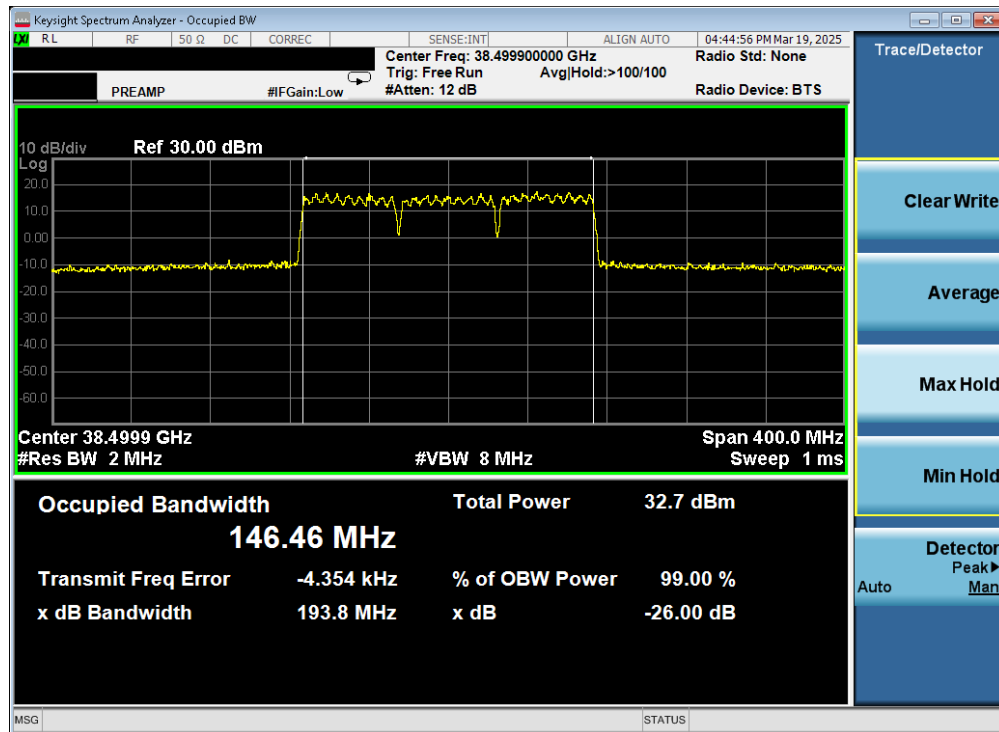


Plot 7-98. Ant1 Occupied Bandwidth Plot (50MHz-3CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 70 of 194

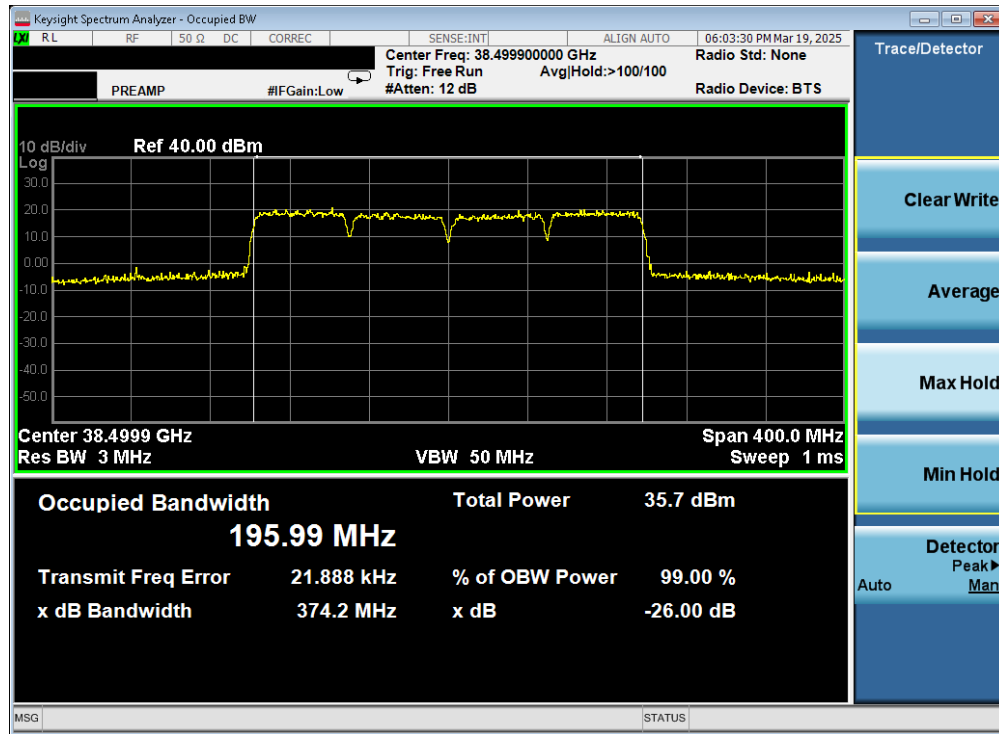


Plot 7-99. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM 16QAM– Mid Channel)

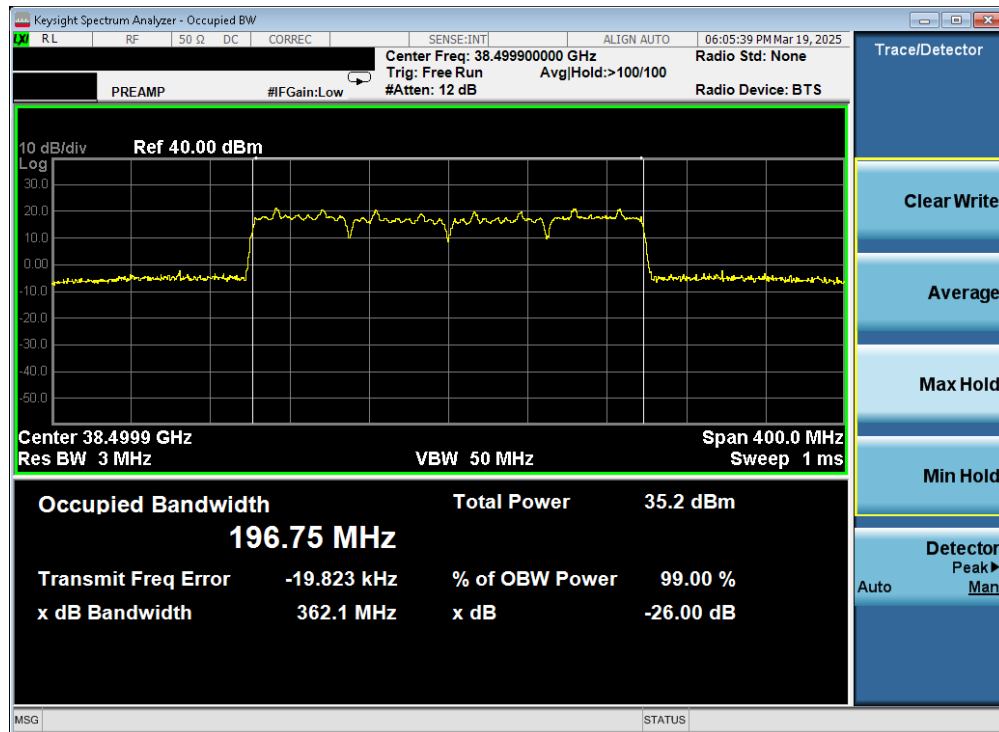


Plot 7-100. Ant1 Occupied Bandwidth Plot (50MHz-3CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 71 of 194

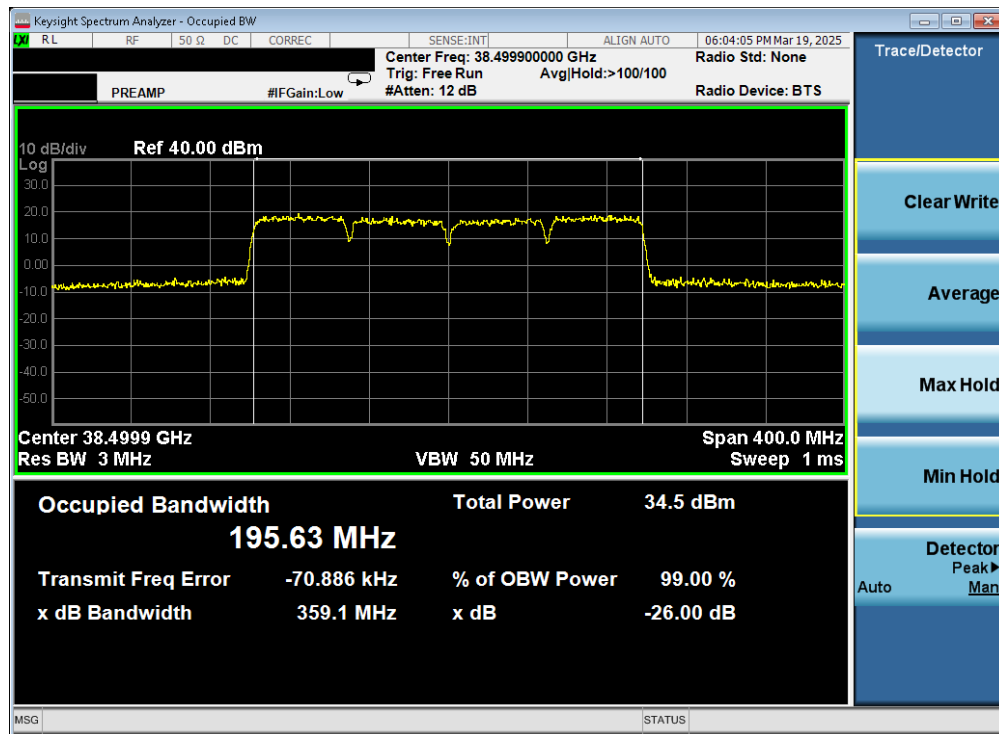


Plot 7-101. Ant1 Occupied Bandwidth Plot (50MHz-CC – CP-OFDM QPSK– Mid Channel)

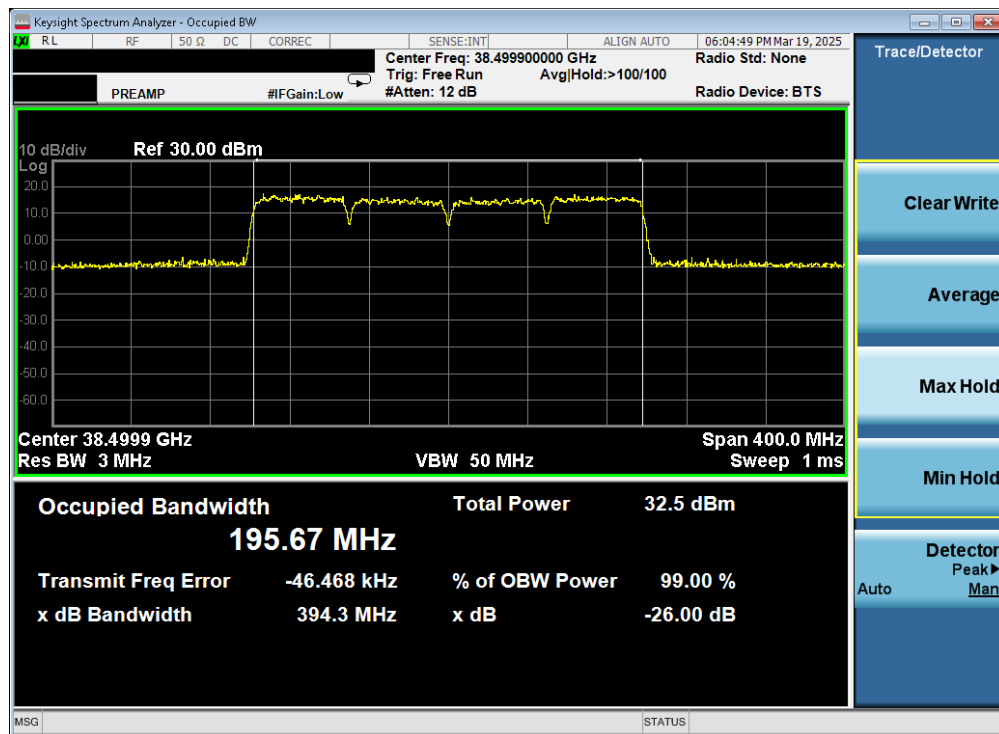


Plot 7-102. Ant1 Occupied Bandwidth Plot (50MHz-4CC – DFT-s -OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 72 of 194

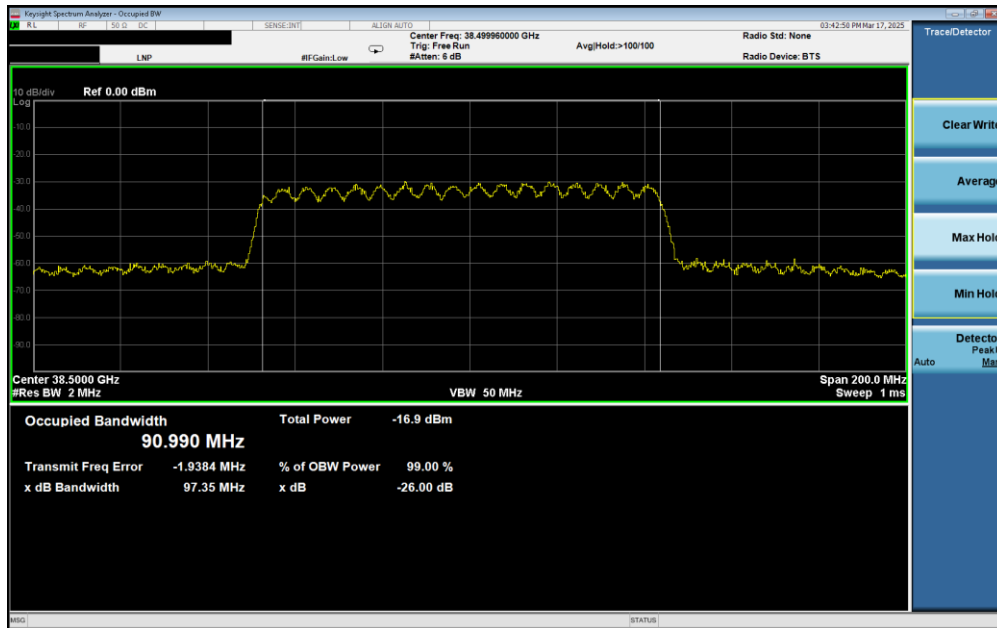


Plot 7-103. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM 16QAM– Mid Channel)

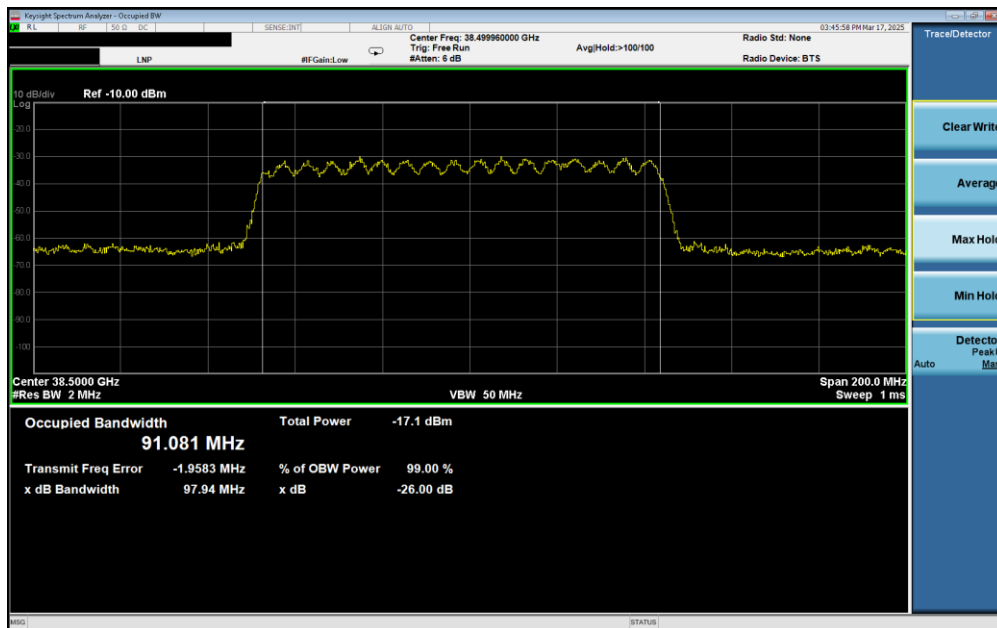


Plot 7-104. Ant1 Occupied Bandwidth Plot (50MHz-4CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 73 of 194

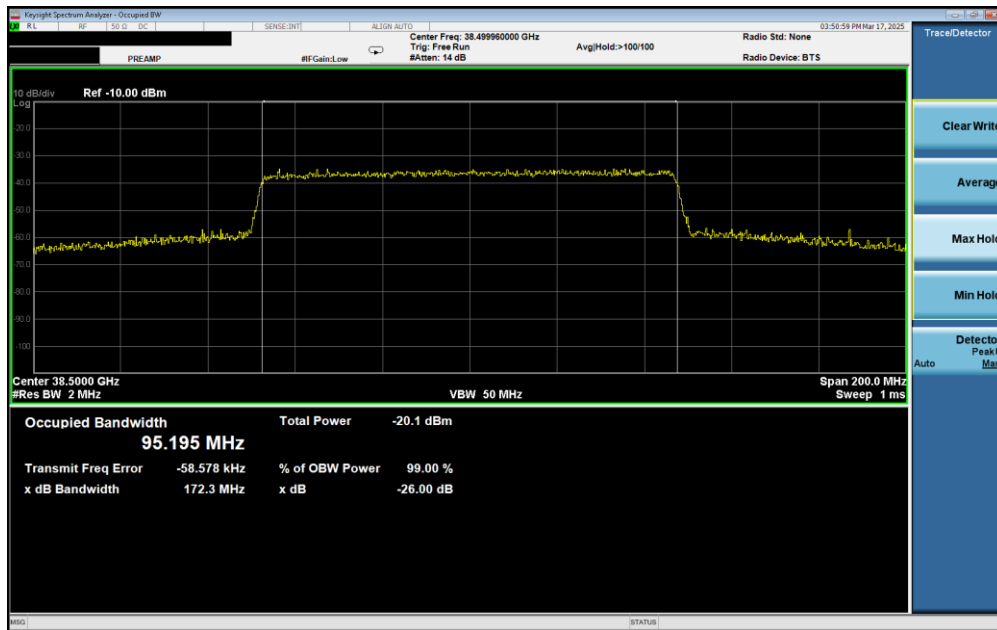


Plot 7-105. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM QPSK– Mid Channel)

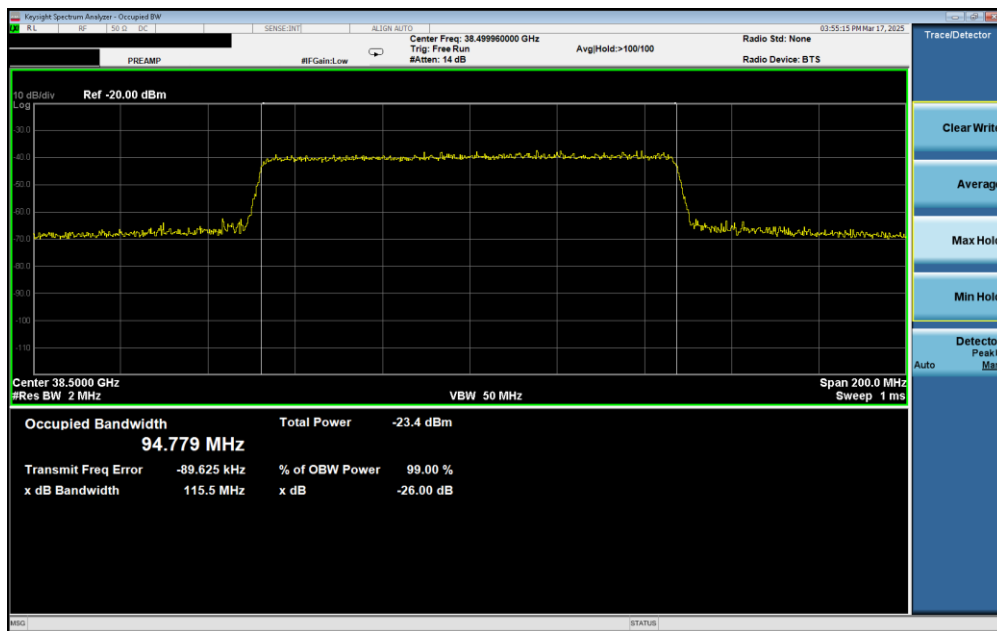


Plot 7-106. Ant1 Occupied Bandwidth Plot (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 74 of 194

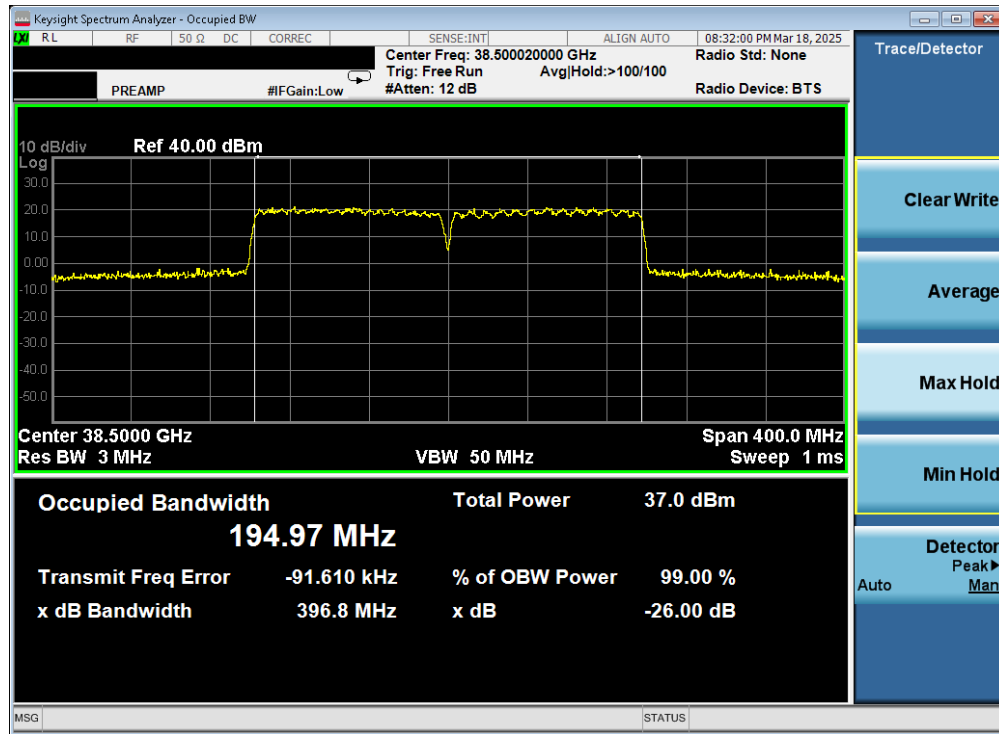


Plot 7-107. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM 16QAM– Mid Channel)

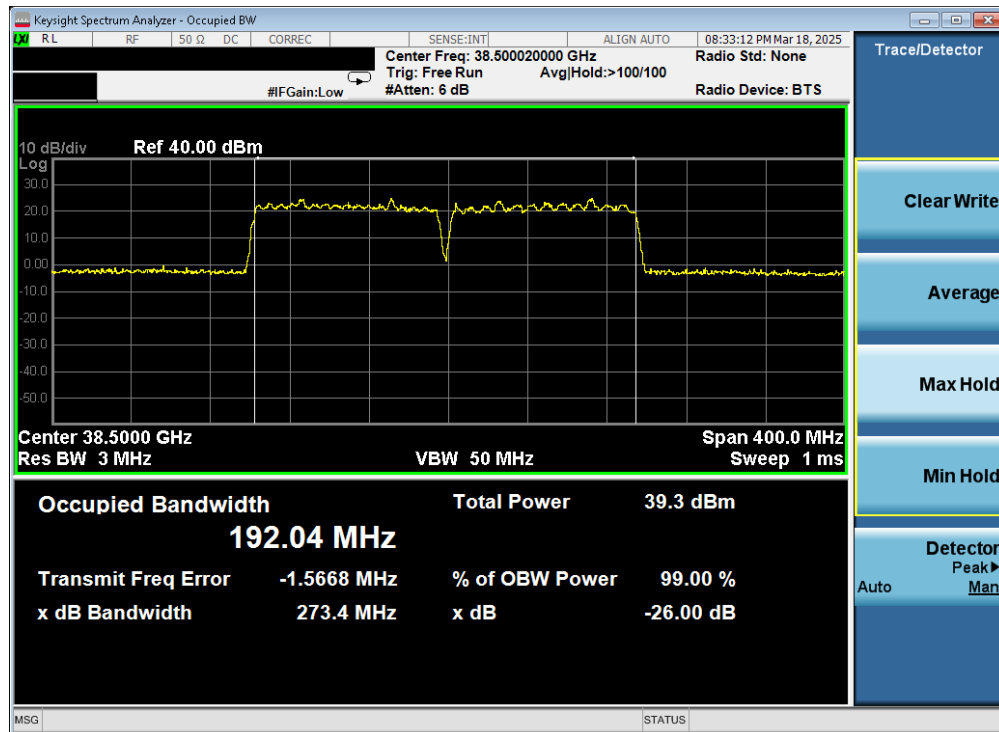


Plot 7-108. Ant1 Occupied Bandwidth Plot (100MHz-1CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 75 of 194

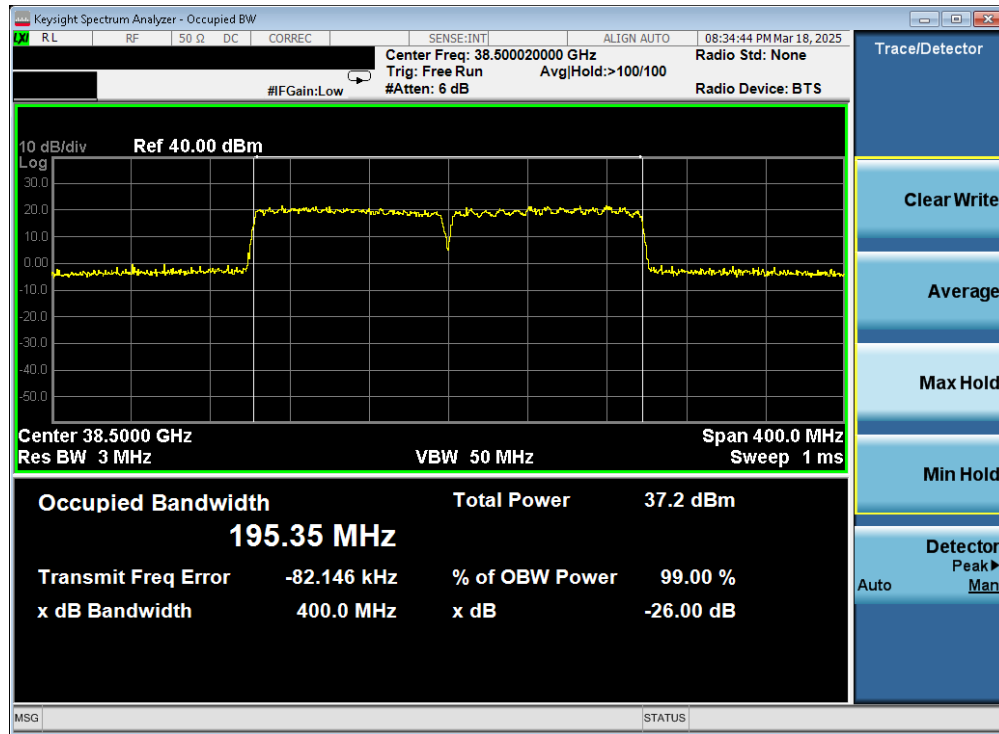


Plot 7-109. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM QPSK – Mid Channel)

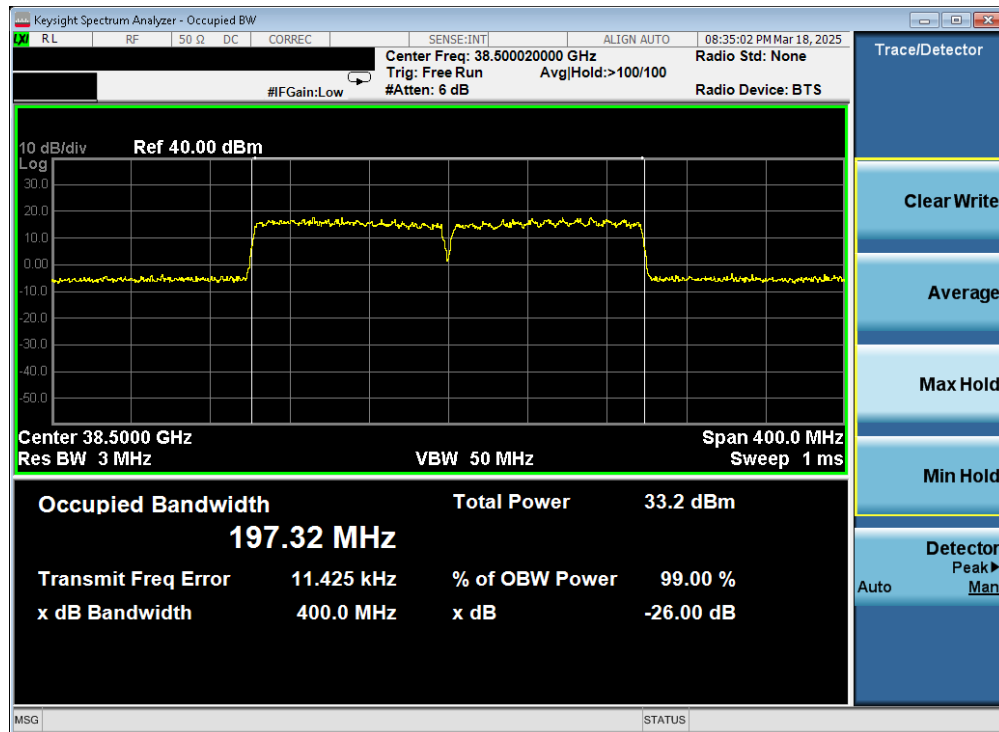


Plot 7-110. Ant1 Occupied Bandwidth Plot (100MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 76 of 194

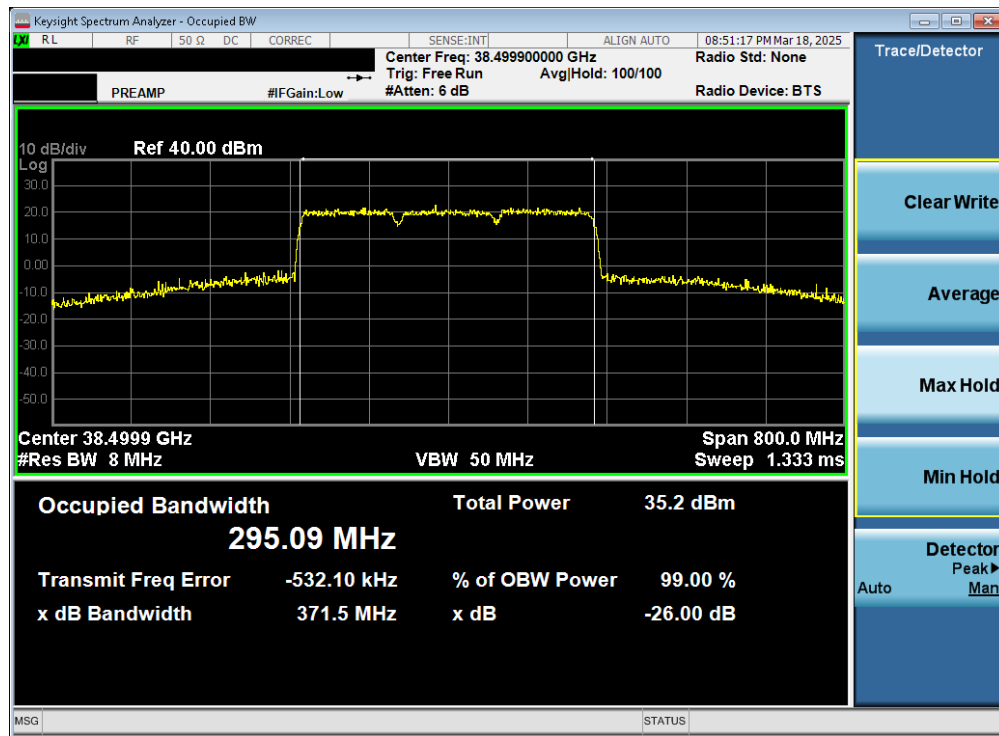


Plot 7-111. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 16QAM – Mid Channel)

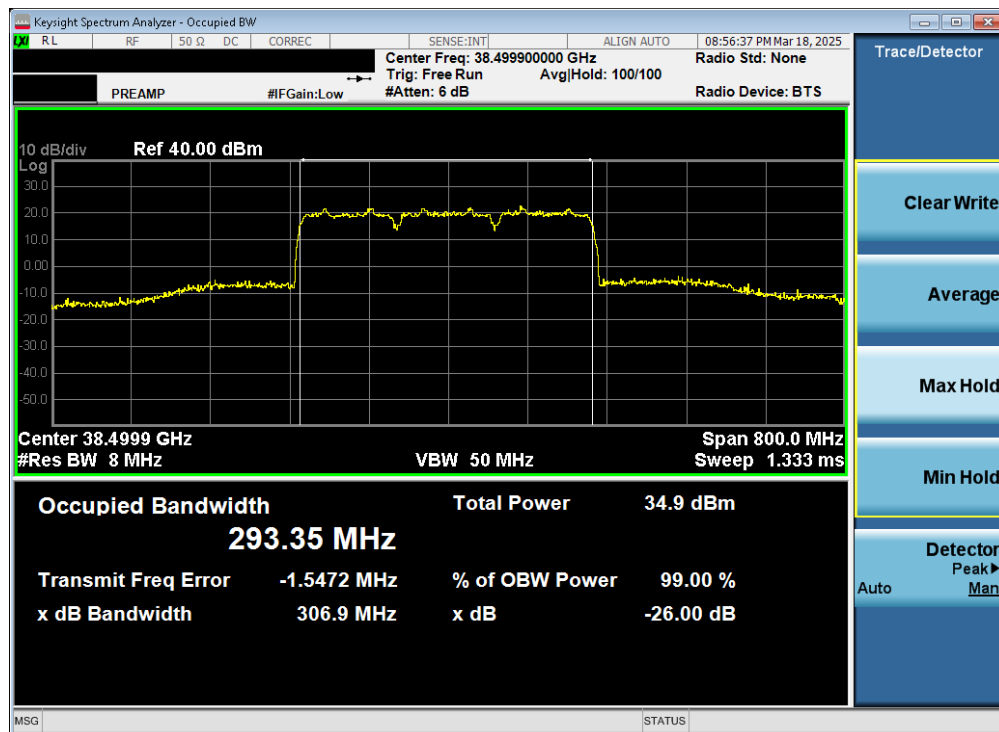


Plot 7-112. Ant1 Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 77 of 194

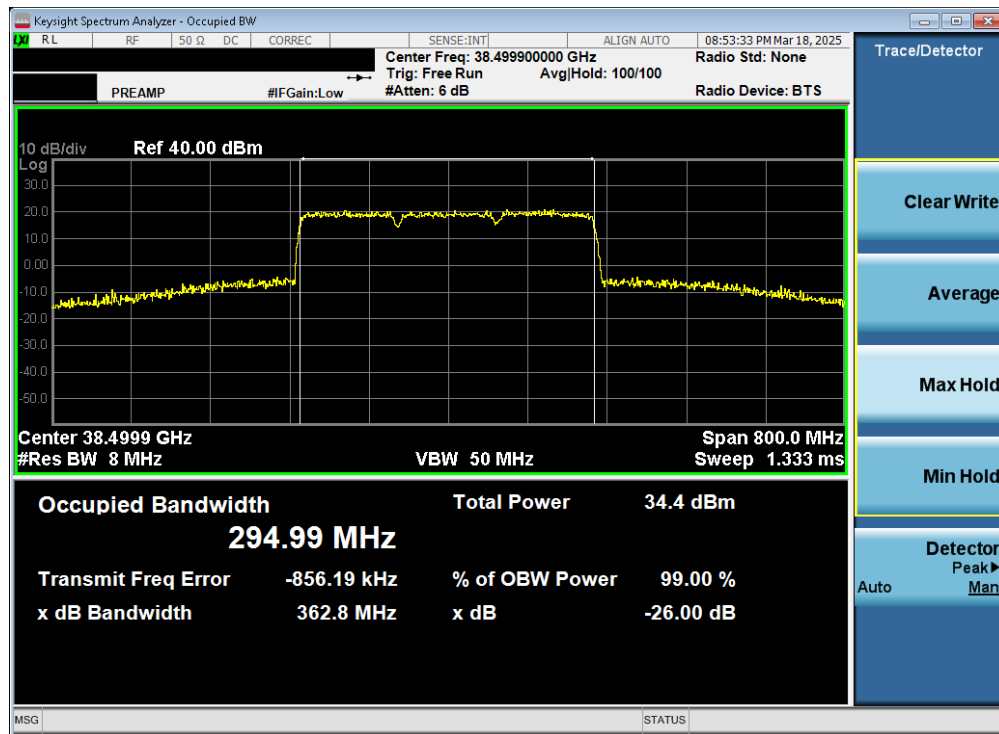


Plot 7-113. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM QPSK – Mid Channel)

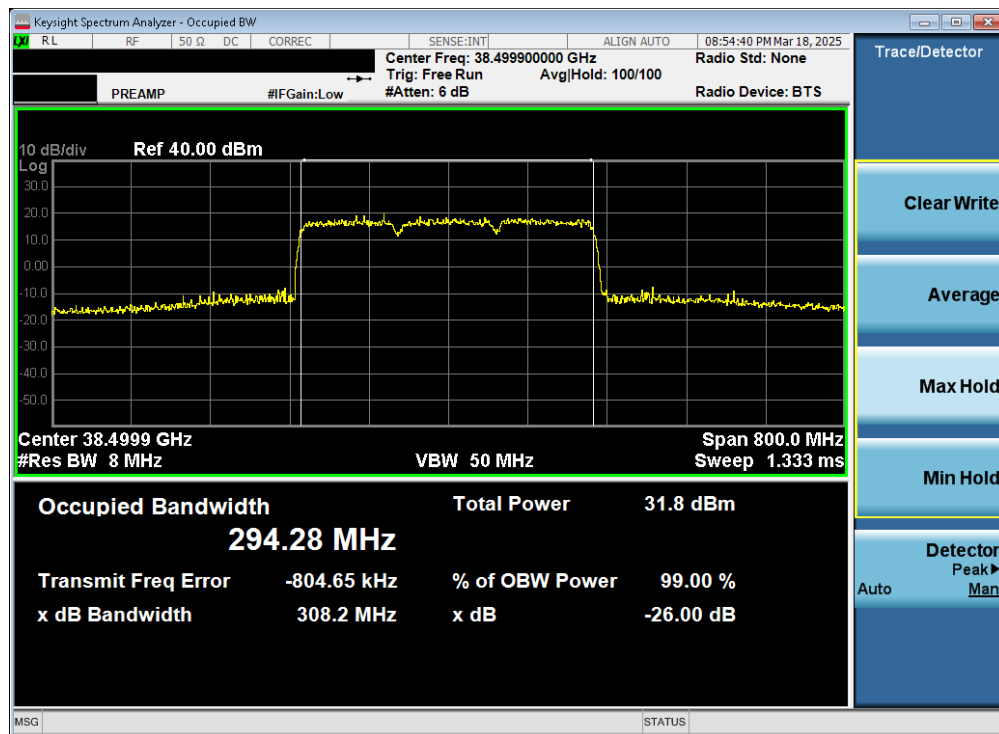


Plot 7-114. Ant1 Occupied Bandwidth Plot (100MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK– Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 78 of 194

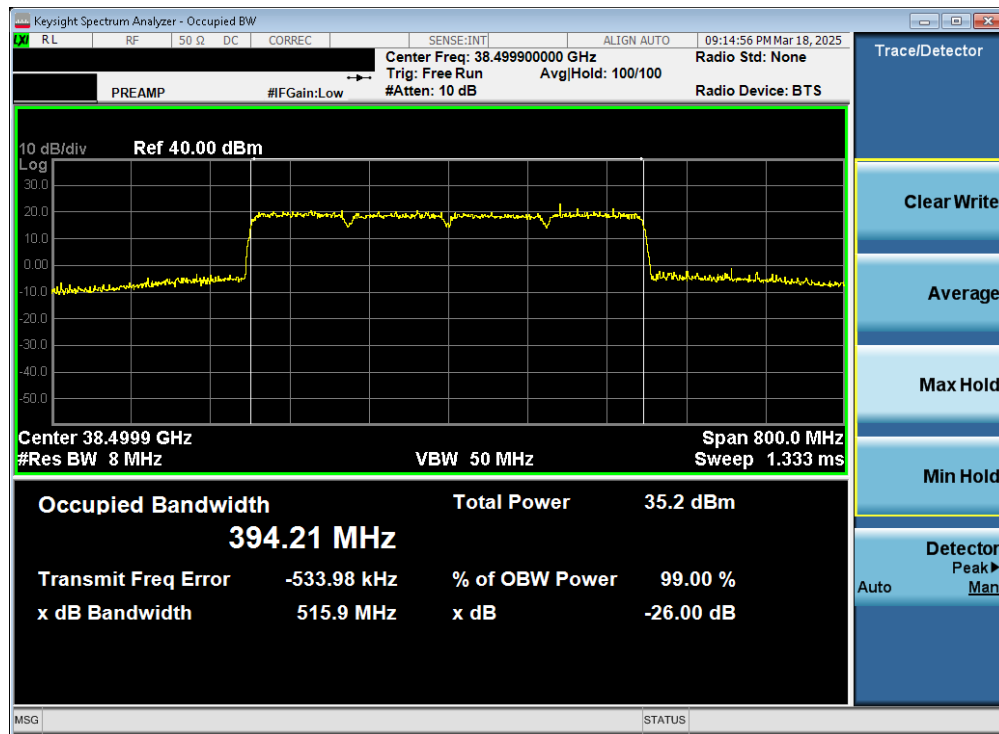


Plot 7-115. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM 16QAM – Mid Channel)

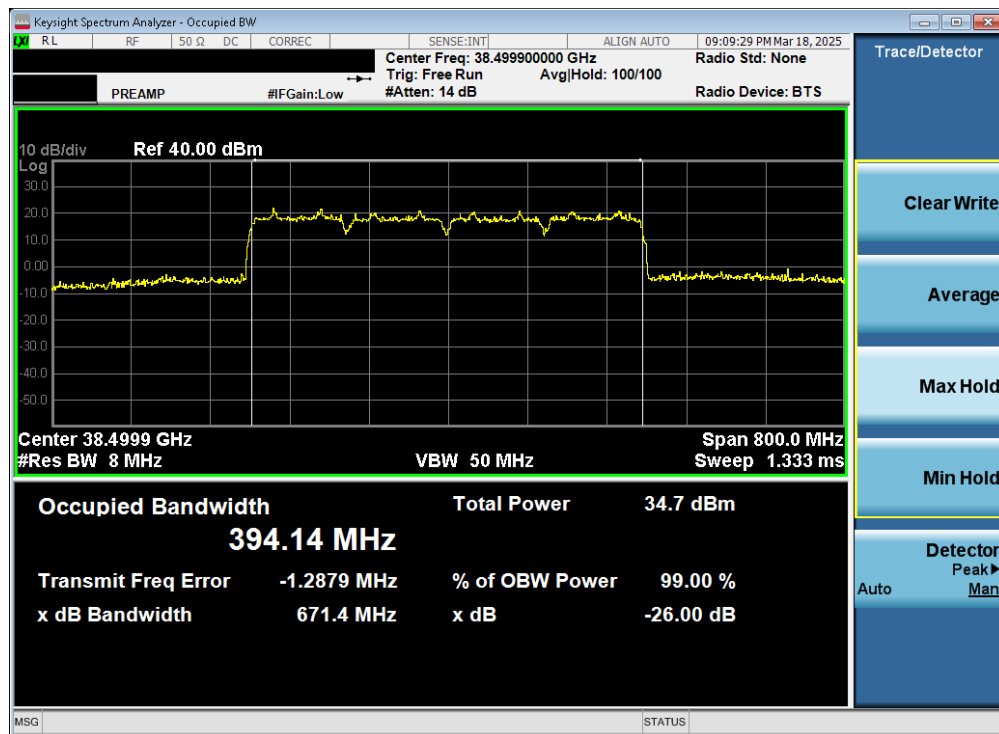


Plot 7-116. Ant1 Occupied Bandwidth Plot (100MHz-3CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 79 of 194

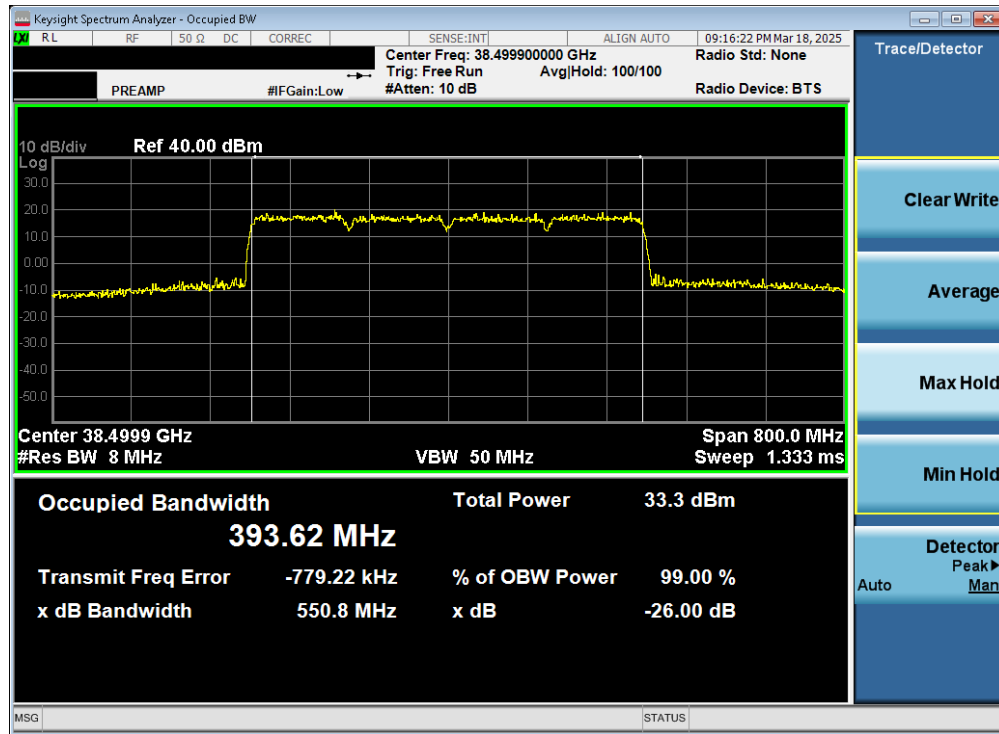


Plot 7-117. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM QPSK – Mid Channel)

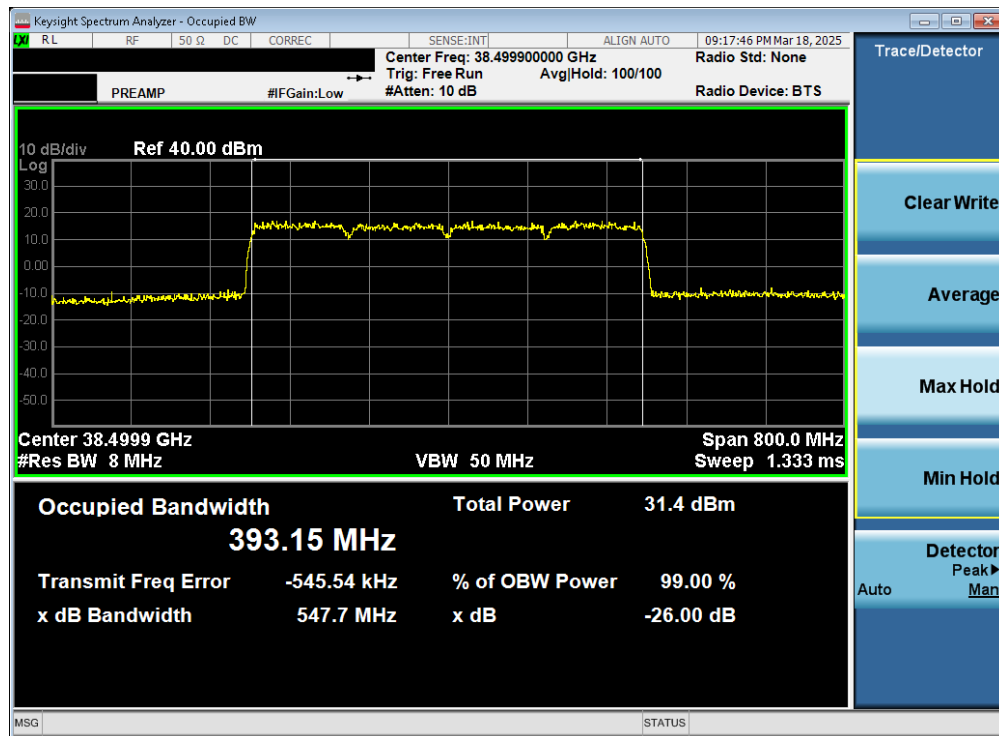


Plot 7-118. Ant1 Occupied Bandwidth Plot (100MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 80 of 194



Plot 7-119. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM 16QAM – Mid Channel)



Plot 7-120. Ant1 Occupied Bandwidth Plot (100MHz-4CC – CP-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 81 of 194

7.3 Equivalent Isotropic Radiated Power

§2.1046, §30.202

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The average power of the sum of all antenna elements is limited to a maximum EIRP of +43 dBm.

Test Procedures Used

ANSI C63.26-2015 Section 5.2.4.4.1
KDB 842590 D01 v01r03 Section 4.2

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 2x to 3x the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
8. Trace mode = trace averaging (RMS) over 100 sweeps
9. The trace was allowed to stabilize

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Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below. Both H-Beam and V-Beam were investigated and the worst-case measurements were reported below.
- 2) Elements within the same antenna array are correlated to produce beamforming array gain. Antenna arrays cannot be correlated with another antenna array. During testing, only one antenna array was active.
- 3) EIRP measurements for all bands were taken at 1m test distance as was required for far-field conditions (see Table 3-1).
- 4) The average EIRP reported below is calculated per section 5.2.7 of ANSI C63.26-2015 which states: EIRP (dBm) = E (dBμV/m) + 20log(D) – 104.8; where D is the measurement distance (in the far field region) in m. The field strength at the antenna terminals E is calculated as: E (dBμV/m) = Spectrum Analyzer Channel Power Level (dBm) + Antenna Factor (dB/m) + Cable Loss (dB) + 107.
- 5) All EIRP measurements were made with the appropriate offset levels loaded into the spectrum analyzer as determined from the measurement distance, antenna factor, cable loss, and the equations in Note 4 above.
- 6) Radiated power levels are investigated while the receive antenna was rotated through all angles to determine the worst case polarization/positioning.
- 7) This device supports transmission of H-polarized and V-polarized beams from the antenna array in both CP-OFDM and DFT-s-OFDM transmission schemes. SISO and MIMO operation is also supported for some configurations. As part of the testing, all modes are investigated fully on the channel showing the highest simulated EIRP using QPSK modulation. The configuration that shows the highest measured EIRP was then used to determine the EIRP for the low and high channels and for the additional modulations.
- 8) Several BeamID's are investigated based on the provided simulated data to determine the worst-case BeamID.

Sample Calculation

The offset level loaded into the spectrum analyzer allows for a direct conversion of the raw channel power level measured by the analyzer into an EIRP. This offset level is frequency dependent and is calculated as follows:

$$\text{Offset Level [dB]} = \text{Antenna Factor [dB/m]} + \text{Cable Loss [dB]} + 20 \text{ Log}(\text{Distance [m]}) + 107 - 104.8 .$$

For example, to measure an EIRP at a frequency of 24400MHz with an antenna factor of 45.49dB/m, a cable loss of 8.53dB, and a measurement distance of 1 meter, an offset level of:

$$\text{Offset Level} = 45.49\text{dB/m} + 8.53\text{dB} + 20 \text{ Log}(1 \text{ meter}) + 107 - 104.8 = 56.22 \text{ dB}$$

shall be loaded into the spectrum analyzer.

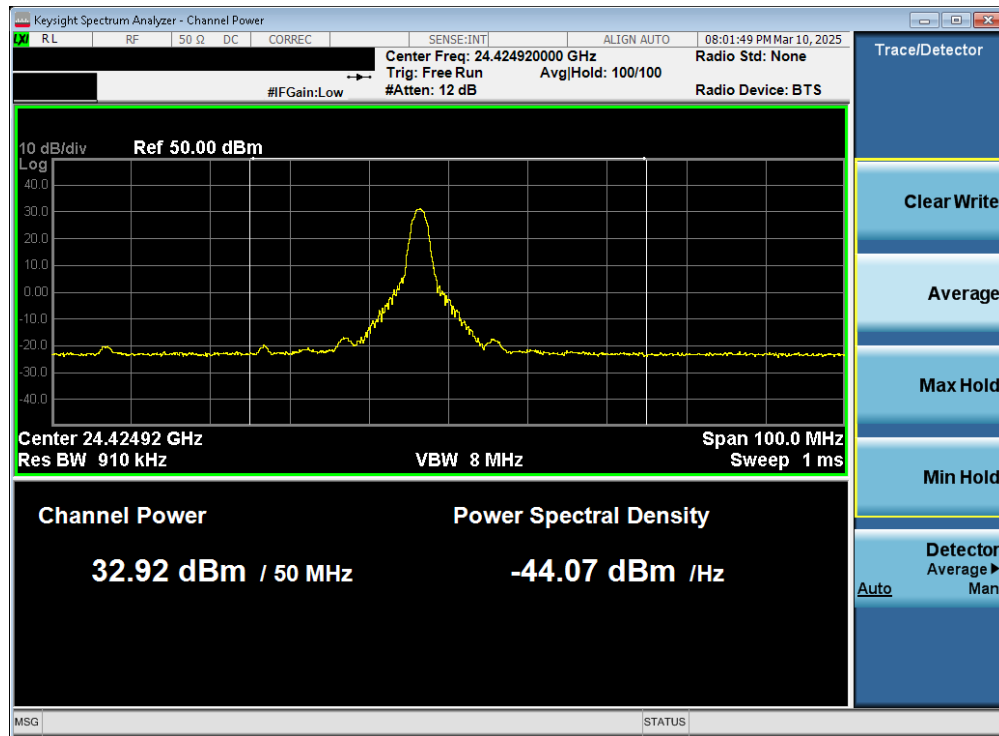
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 83 of 194

Band n258-R1

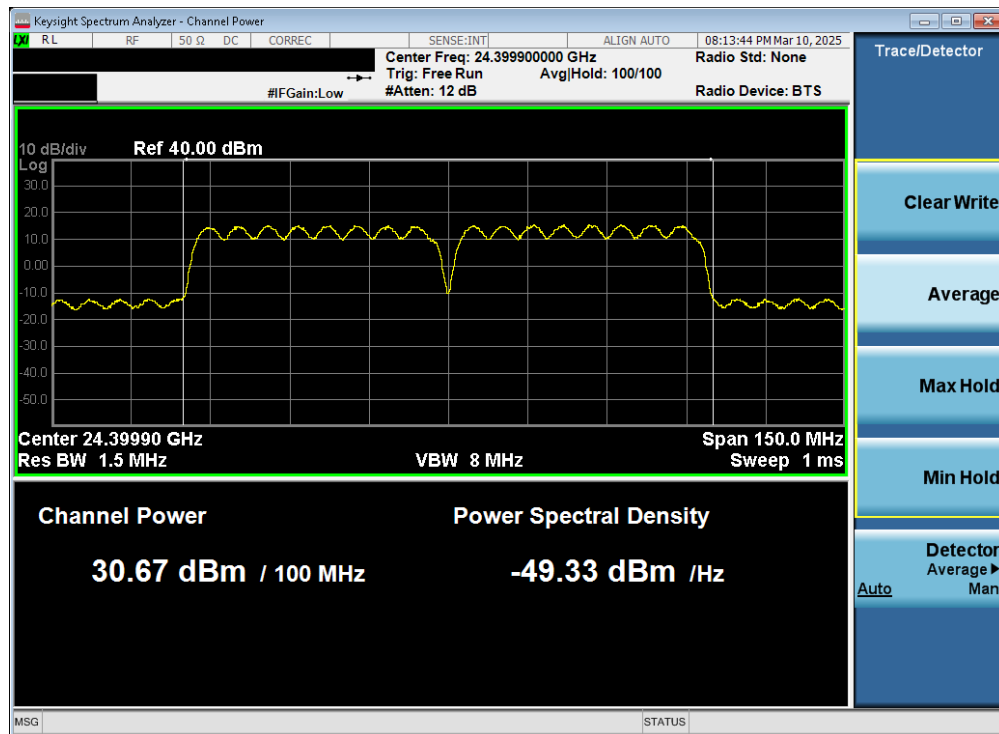
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
50	1	Low	24275.04	DFT-s-OFDM	QPSK	13+269	H + V	2Tx	V	294	143	1 / 16	32.24
				CP-OFDM	QPSK	13+269	H + V	MIMO	V	294	143	1 / 16	31.42
				DFT-s-OFDM	$\pi/2$ BPSK	13+269	H + V	2Tx	V	294	143	1 / 16	32.19
				DFT-s-OFDM	16QAM	13+269	H + V	2Tx	V	294	143	1 / 16	31.77
		Mid	24350.04	DFT-s-OFDM	64QAM	13+269	H + V	2Tx	V	294	143	1 / 13	29.16
				DFT-s-OFDM	QPSK	13+269	H + V	2Tx	V	294	143	1 / 13	32.25
				CP-OFDM	QPSK	13+269	H + V	MIMO	V	294	143	1 / 16	29.64
				DFT-s-OFDM	$\pi/2$ BPSK	13+269	H + V	2Tx	V	294	143	1 / 13	32.39
				DFT-s-OFDM	16QAM	13+269	H + V	2Tx	V	294	143	1 / 17	31.72
				DFT-s-OFDM	64QAM	13+269	H + V	2Tx	V	294	143	1 / 17	29.28
		High	24424.92	DFT-s-OFDM	QPSK	13+269	H + V	2Tx	V	296	129	1 / 16	32.89
				DFT-s-OFDM	QPSK	17	H	SISO	V	104	239	1 / 13	26.58
				DFT-s-OFDM	QPSK	270	V	SISO	H	75	78	32 / 0	27.87
				CP-OFDM	QPSK	13+269	H + V	MIMO	V	296	129	1 / 16	30.38
				CP-OFDM	QPSK	17	H	SISO	V	104	239	1 / 19	25.55
				CP-OFDM	QPSK	270	V	SISO	H	75	78	1 / 12	26.79
				DFT-s-OFDM	$\pi/2$ BPSK	13+269	H + V	2Tx	V	296	129	1 / 13	32.92
				DFT-s-OFDM	16QAM	13+269	H + V	2Tx	V	296	129	1 / 16	32.49
				DFT-s-OFDM	64QAM	13+269	H + V	2Tx	V	296	129	1 / 13	29.81
				DFT-s-OFDM	64QAM	13+269	H + V	2Tx	V	296	129	1 / 13	29.81
50+50	2	Low	24300.00	DFT-s-OFDM	$\pi/2$ BPSK	13+269	H + V	2Tx	V	294	143	32 / 0	30.15
		Mid	24350.04	DFT-s-OFDM	$\pi/2$ BPSK	13+269	H + V	2Tx	V	294	143	32 / 0	30.22
		High	24399.96	DFT-s-OFDM	QPSK	13+269	H + V	2Tx	V	269	129	32 / 0	30.55
				CP-OFDM	QPSK	13+269	H + V	MIMO	V	269	129	32 / 0	27.95
				DFT-s-OFDM	$\pi/2$ BPSK	13+269	H + V	2Tx	V	269	129	32 / 0	30.67
				DFT-s-OFDM	16QAM	13+269	H + V	2Tx	V	269	129	32 / 0	30.08
50+50+50	3	Low	24324.96	DFT-s-OFDM	QPSK	13+269	H + V	2Tx	V	294	143	32 / 0	27.31
		High	24375.00	DFT-s-OFDM	QPSK	13+269	H + V	2Tx	V	269	129	32 / 0	27.74
				CP-OFDM	QPSK	13+269	H + V	MIMO	V	269	129	32 / 0	26.68
				DFT-s-OFDM	$\pi/2$ BPSK	13+269	H + V	2Tx	V	269	129	32 / 0	27.64
				DFT-s-OFDM	16QAM	13+269	H + V	2Tx	V	269	129	32 / 0	26.73
				DFT-s-OFDM	64QAM	13+269	H + V	2Tx	V	269	129	32 / 0	24.56
50+50+50+50	4	Mid	24350.04	DFT-s-OFDM	QPSK	13+269	H + V	2Tx	V	294	143	32 / 0	27.52
				CP-OFDM	QPSK	13+269	H + V	MIMO	V	294	143	32 / 0	26.32
				DFT-s-OFDM	$\pi/2$ BPSK	13+269	H + V	2Tx	V	294	143	32 / 0	27.58
				DFT-s-OFDM	16QAM	13+269	H + V	2Tx	V	294	143	32 / 0	26.43
				DFT-s-OFDM	64QAM	13+269	H + V	2Tx	V	294	143	32 / 0	24.24

Table 7-6. Ant1 EIRP Data (Band n258-R1 - 50MHz)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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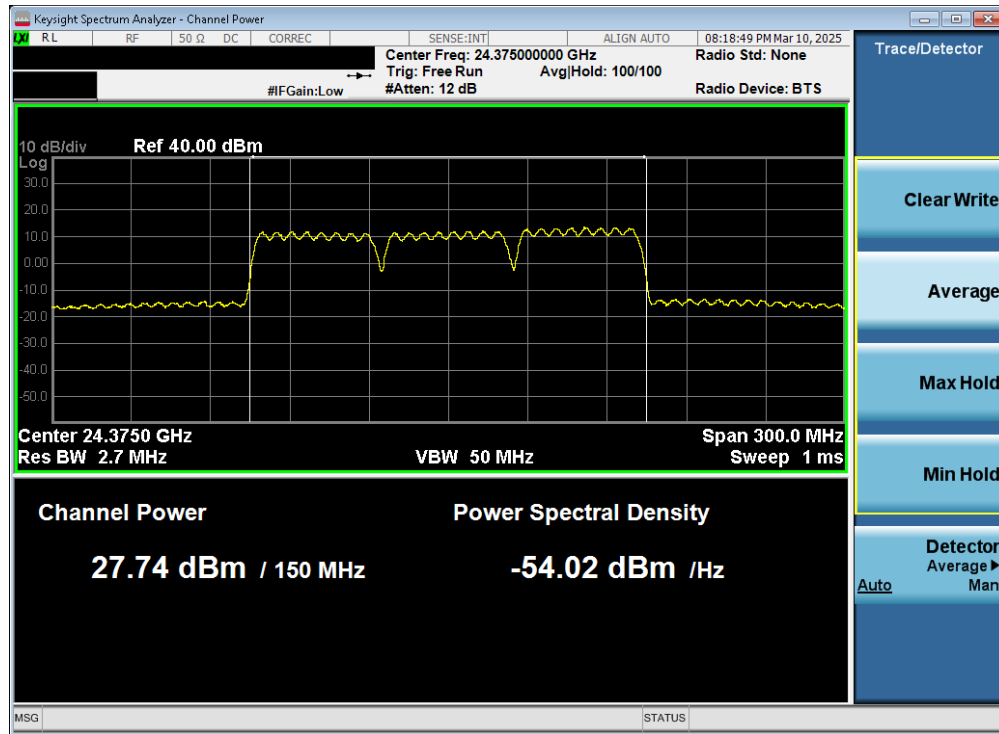


Plot 7-121. Ant1 EIRP Plot (Band 258-R1 – 50MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

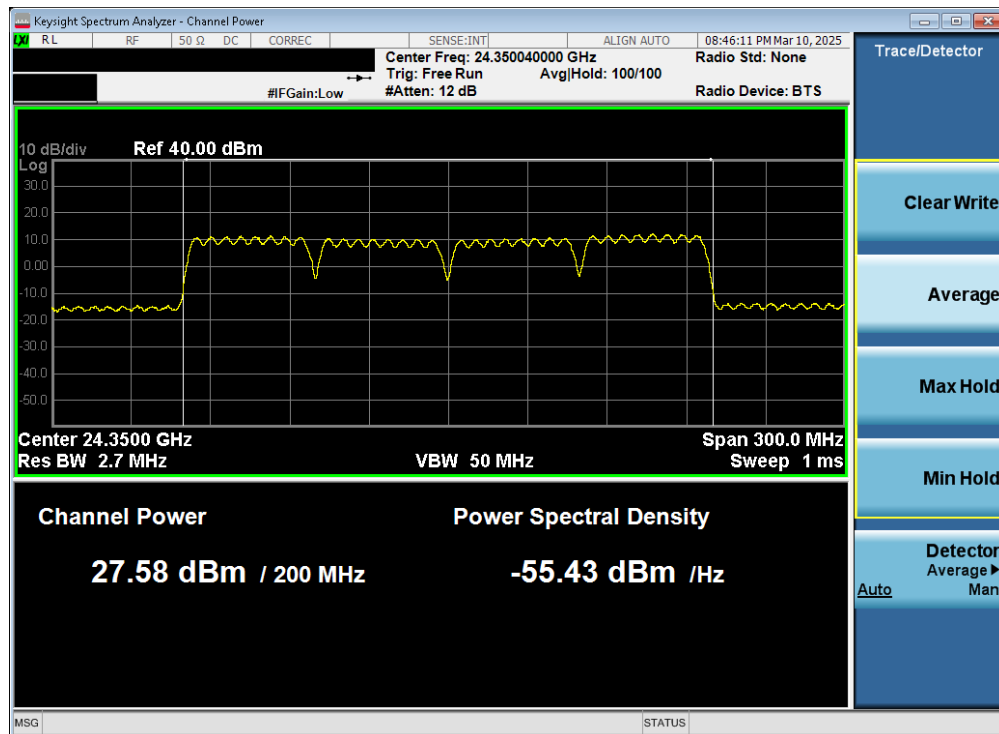


Plot 7-122. Ant1 EIRP Plot (Band 258-R1 – 50MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 85 of 194



Plot 7-123. Ant1 EIRP Plot (Band 258-R1 – 50MHz-3CC – DFT-s-OFDM QPSK – High Channel)

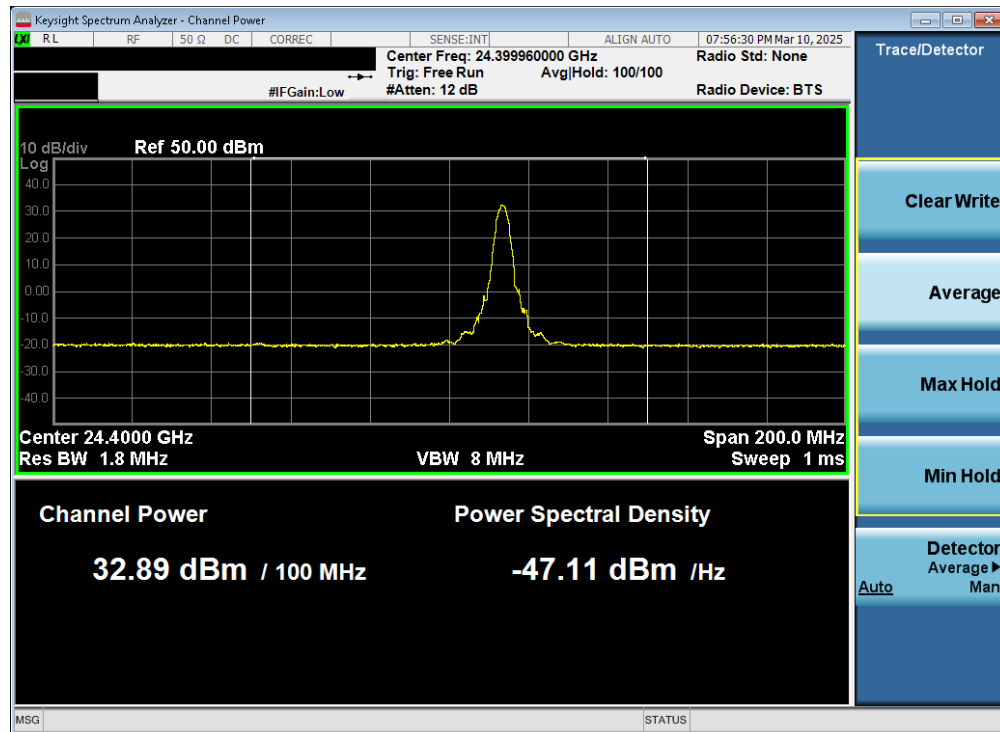


Plot 7-124. Ant1 EIRP Plot (Band 258-R1 – 50MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 86 of 194

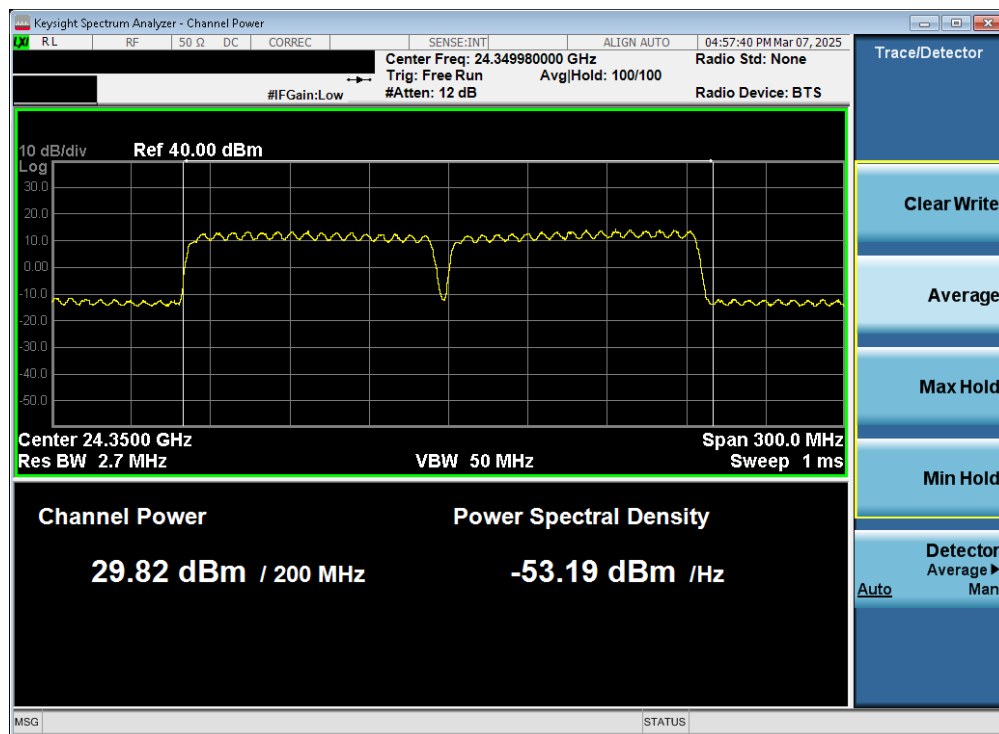
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
100	1	Low	24300.00	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	143	1 / 42	32.05
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	143	1 / 33	31.02
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	143	1 / 34	32.07
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	143	1 / 42	32.01
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	143	1 / 34	29.03
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	143	1 / 42	31.97
		Mid	24350.04	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	143	1 / 42	30.89
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	143	1 / 33	30.89
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	143	1 / 42	32.04
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	143	1 / 42	31.96
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	143	1 / 42	28.79
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	296	129	1 / 42	32.82
		High	24399.96	DFT-s-OFDM	QPSK	17	H	SISO	V	104	239	1 / 42	26.58
				DFT-s-OFDM	QPSK	270	V	SISO	H	74	80	1 / 42	27.84
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	296	129	1 / 42	31.79
				CP-OFDM	QPSK	17	H	SISO	V	104	239	1 / 42	25.52
				CP-OFDM	QPSK	270	V	SISO	H	74	80	1 / 42	26.85
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	296	129	1 / 34	32.89
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	296	129	1 / 42	32.82
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	296	129	1 / 34	29.67
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	143	64 / 0	29.82
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	143	66 / 0	27.25
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	143	64 / 0	29.77
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	143	64 / 0	29.33
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	143	64 / 0	25.58
100+100	2	Mid	24349.98	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	143	64 / 0	29.82
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	143	66 / 0	27.25
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	143	64 / 0	29.77
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	143	64 / 0	29.33
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	143	64 / 0	25.58

Table 7-7. Ant1 EIRP Data (Band n258-R1 - 100MHz)



Plot 7-125. Ant1 EIRP Plot (Band 258-R1 – 100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-126. Ant1 EIRP Plot (Band 258-R1 – 100MHz-2CC – DFT-s-OFDM QPSK – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 88 of 194

Band n258-R2

Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
50	1	Low	24775.08	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	1 / 17	33.02
				DFT-s-OFDM	QPSK	20	H	SISO	V	261	134	32 / 0	25.70
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	1 / 16	30.43
				CP-OFDM	QPSK	20	H	SISO	V	261	134	1 / 19	24.61
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	1 / 17	33.05
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	1 / 17	32.60
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 17	29.37
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	1 / 16	32.81
		Mid	24999.96	DFT-s-OFDM	QPSK	270	V	SISO	H	75	78	32 / 0	28.23
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	1 / 16	30.77
				CP-OFDM	QPSK	270	V	SISO	H	75	78	1 / 19	27.27
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	1 / 16	32.85
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	1 / 16	32.79
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 16	29.77
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	1 / 17	33.37
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	1 / 16	30.79
		High	25224.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	1 / 17	33.31
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	1 / 17	32.83
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 17	29.61
		Low	24800.04	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	31.05
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	31.32
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	31.41
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	32 / 0	28.87
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	31.42
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	30.95
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	27.37
		Mid	24999.96	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.72
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.81
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	32 / 0	27.84
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.78
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	27.86
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	25.74
		High	25175.04	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.51
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.72
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.81
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	32 / 0	27.84
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.78
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	27.86
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	25.74
50+50+50	3	Low	24825.00	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.51
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.72
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.81
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	32 / 0	27.84
		Mid	24999.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.78
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	27.86
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	25.74
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.51
		High	25175.04	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.72
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.81
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	32 / 0	27.84
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.78
50+50+50+50	4	Low	24849.96	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.68
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.83
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.89
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	32 / 0	27.84
		Mid	24999.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.80
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	27.79
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	32 / 0	25.72
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.51
		High	25150.08	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.72
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.81
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	32 / 0	27.84
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	32 / 0	28.78

Table 7-8. Ant1 EIRP Data (Band n258-R2 - 50MHz)

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Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 89 of 194