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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:**

09/03/2024 - 11/06/2024 **Test Report Issue Date:**

11/07/2024

Test Site/Location:

Element Lab. Yongin-Si, Gyeonggi-do, South Korea

Test Report Serial No.: 1M2408260066-10.A3L

FCC ID: A3LSMS936B

Applicant Name: Samsung Electronics Co., Ltd.

Application Type:CertificationModel:SM-S936B/DSAdditional Model(s):SM-S936B

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.

Prepared by

Reviewed by

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		Ant	enna-F			
				Ell	RP	
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		Π/2 BPSK	3500.0	0.213	23.29	96M9G7D
	100 MHz	QPSK	3500.0	0.214	23.30	98M1G7D
		16QAM	3500.0	0.177	22.48	98M2W7D
		Π/2 BPSK	3495.0 - 3505.0	0.209	23.20	87M5G7D
	90 MHz	QPSK	3495.0 - 3505.0	0.224	23.51	87M9G7D
		16QAM	3495.0 - 3505.0	0.185	22.66	87M9W7D
		Π/2 BPSK	3490.0 - 3510.0	0.247	23.92	77M5G7D
	80 MHz	QPSK	3490.0 - 3510.0	0.255	24.07	77M8G7D
		16QAM	3490.0 - 3510.0	0.200	23.02	77M8W7D
		Π/2 BPSK	3485.0 - 3515.0	0.249	23.97	64M7G7D
	70 MHz	QPSK	3485.0 - 3515.0	0.270	24.32	67M9G7D
		16QAM	3485.0 - 3515.0	0.216	23.35	67M8W7D
	60 MHz	Π/2 BPSK	3480.0 - 3520.0	0.228	23.58	58M2G7D
		QPSK	3480.0 - 3520.0	0.254	24.04	58M2G7D
		16QAM	3480.0 - 3520.0	0.209	23.21	58M1W7D
	50 MHz	Π/2 BPSK	3475.0 - 3525.0	0.209	23.20	46M2G7D
		QPSK	3475.0 - 3525.0	0.236	23.72	47M9G7D
NR Band n77 PC2		16QAM	3475.0 - 3525.0	0.195	22.91	47M8W7D
(3450 - 3550MHz)		Π/2 BPSK	3470.0 - 3530.0	0.219	23.41	35M9G7D
	40 MHz	QPSK	3470.0 - 3530.0	0.241	23.82	38M0G7D
		16QAM	3470.0 - 3530.0	0.182	22.61	38M0W7D
		π/2 BPSK	3465.0 - 3535.0	0.226	23.55	27M0G7D
	30 MHz	QPSK	3465.0 - 3535.0	0.246	23.91	28M1G7D
		16QAM	3465.0 - 3535.0	0.199	22.98	28M1W7D
		Π/2 BPSK	3462.5 - 3537.5	0.249	23.96	23M0G7D
	25 MHz	QPSK	3462.5 - 3537.5	0.303	24.82	23M3G7D
		16QAM	3462.5 - 3537.5	0.230	23.62	23M3W7D
		Π/2 BPSK	3460.0 - 3540.0	0.200	23.02	18M0G7D
	20 MHz	QPSK	3460.0 - 3540.0	0.217	23.37	18M4G7D
		16QAM	3460.0 - 3540.0	0.181	22.58	18M3W7D
		π/2 BPSK	3457.5 - 3542.5	0.238	23.77	13M0G7D
	15 MHz	QPSK	3457.5 - 3542.5	0.282	24.50	13M7G7D
		16QAM	3457.5 - 3542.5	0.217	23.37	13M7W7D
		π/2 BPSK	3455.0 - 3545.0	0.187	22.73	8M71G7D
	10 MHz	QPSK	3455.0 - 3545.0	0.217	23.37	8M68G7D
		16QAM	3455.0 - 3545.0	0.171	22.34	8M67W7D

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		Ant	enna-F			
				EI	RP	
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		π/2 BPSK	3750.0 - 3930.0	0.288	24.59	97M0G7D
	100 MHz	QPSK	3750.0 - 3930.0	0.287	24.58	98M0G7D
		16QAM	3750.0 - 3930.0	0.240	23.79	98M1W7D
		π/2 BPSK	3745.0 - 3935.0	0.284	24.54	87M4G7D
	90 MHz	QPSK	3745.0 - 3935.0	0.285	24.55	88M1G7D
		16QAM	3745.0 - 3935.0	0.263	24.20	87M9W7D
		π/2 BPSK	3740.0 - 3940.0	0.298	24.75	77M5G7D
	80 MHz	QPSK	3740.0 - 3940.0	0.310	24.92	77M8G7D
		16QAM	3740.0 - 3940.0	0.251	23.99	77M9W7D
		π/2 BPSK	3735.0 - 3945.0	0.339	25.30	64M6G7D
	70 MHz	QPSK	3735.0 - 3945.0	0.307	24.87	67M7G7D
		16QAM	3735.0 - 3945.0	0.267	24.26	67M7W7D
	60 MHz	π/2 BPSK	3730.0 - 3950.0	0.344	25.36	58M3G7D
		QPSK	3730.0 - 3950.0	0.324	25.10	58M3G7D
		16QAM	3730.0 - 3950.0	0.289	24.61	58M3W7D
		π/2 BPSK	3725.0 - 3955.0	0.404	26.06	46M0G7D
	50 MHz	QPSK	3725.0 - 3955.0	0.399	26.01	47M8G7D
NR Band n77 PC2		16QAM	3725.0 - 3955.0	0.284	24.53	47M8W7D
(3700 - 3980MHz)		π/2 BPSK	3720.0 - 3960.0	0.400	26.02	35M9G7D
	40 MHz	QPSK	3720.0 - 3960.0	0.400	26.02	38M1G7D
		16QAM	3720.0 - 3960.0	0.322	25.08	38M1W7D
	30 MHz	π/2 BPSK	3715.0 - 3965.0	0.415	26.19	27M0G7D
		QPSK	3715.0 - 3965.0	0.417	26.20	28M1G7D
		16QAM	3715.0 - 3965.0	0.280	24.47	28M1W7D
		π/2 BPSK	3712.5 - 3967.5	0.329	25.17	23M0G7D
	25 MHz	QPSK	3712.5 - 3967.5	0.328	25.16	23M3G7D
		16QAM	3712.5 - 3967.5	0.305	24.85	23M0W7D
		π/2 BPSK	3710.0 - 3970.0	0.412	26.15	18M0G7D
	20 MHz	QPSK	3710.0 - 3970.0	0.416	26.19	18M3G7D
		16QAM	3710.0 - 3970.0	0.287	24.58	18M3W7D
		Π/2 BPSK	3707.5 - 3972.5	0.303	24.81	13M0G7D
	15 MHz	QPSK	3707.5 - 3972.5	0.375	25.74	13M7G7D
		16QAM	3707.5 - 3972.5	0.348	25.41	13M7W7D
		Π/2 BPSK	3705.0 - 3975.0	0.381	25.80	8M65G7D
	10 MHz	QPSK	3705.0 - 3975.0	0.403	26.06	8M67G7D
		16QAM	3705.0 - 3975.0	0.367	25.64	8M69W7D

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Antenna-C							
				EI	RP		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator	
NR Band n77 PC2	100 MHz	π/2 BPSK	3500.0	0.175	22.43	96M9G7D	
		QPSK	3500.0	0.174	22.41	98M1G7D	
(3450 - 3550MHz)		16QAM	3500.0	0.175	22.42	98M2W7D	
NR Band n77 PC2 (3700 - 3980MHz)	100 MHz	π/2 BPSK	3750.0 - 3930.0	0.095	19.76	97M0G7D	
		QPSK	3750.0 - 3930.0	0.092	19.63	97M8G7D	
		16QAM	3750.0 - 3930.0	0.077	18.84	98M2W7D	

Antenna-I							
				EI	RP		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator	
NR Band n77 PC2	100 MHz	π/2 BPSK	3500.0	0.156	21.92	97M2G7D	
		QPSK	3500.0	0.155	21.89	98M0G7D	
(3450 - 3550MHz)		16QAM	3500.0	0.145	21.62	98M1W7D	
NR Band n77 PC2	100 MHz	π/2 BPSK	3750.0 - 3930.0	0.182	22.61	97M0G7D	
		QPSK	3750.0 - 3930.0	0.183	22.62	98M1G7D	
(3700 - 3980MHz)		16QAM	3750.0 - 3930.0	0.174	22.41	98M0W7D	

Antenna-D							
				Ell	RP		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator	
ND Dand n77 DC0		π/2 BPSK	3500.0	0.058	17.63	97M2G7D	
NR Band n77 PC2 (3450 - 3550MHz)	100 MHz	QPSK	3500.0	0.058	17.60	98M0G7D	
(3430 - 3330NITZ)		16QAM	3500.0	0.058	17.61	98M2W7D	
NR Band n77 PC2 (3700 - 3980MHz)	100 MHz	π/2 BPSK	3750.0 - 3930.0	0.036	15.51	97M1G7D	
		QPSK	3750.0 - 3930.0	0.035	15.50	98M3G7D	
(3700 - 390010172)		16QAM	3750.0 - 3930.0	0.029	14.65	97M9W7D	

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

These measurement tests were conducted at the Element Suwon Laboratory located at 13, Heungdeok 1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 16954, South Korea. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMS936B**. 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.: 1698M, 1700M, 2358M, 2366M

2.2 Device Capabilities

This device contains the following capabilities:

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

This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space" condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.

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-N5100 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version S936BXXU0AQQ2 installed on the EUT.

2.5 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from Measurement Procedure......None

3.2 Radiated Power and Radiated Spurious Emissions

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

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

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

Pd [dBm] = Pq [dBm] - cable loss [dB] + 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 [dBm]} – 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:

 $E_{[dB\mu V/m]} = Measured amplitude level_{[dBm]} + 107 + Cable Loss_{[dB]} + Antenna Factor_{[dB/m]}$ And

 $EIRP_{[dBm]} = E_{[dB\mu\nu/m]} + 20logD - 104.8$; where D 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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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 (±dB)
Conducted Bench Top Measurements	1.95
Radiated Disturbance (<1GHz)	4.10
Radiated Disturbance (>1GHz)	4.82
Radiated Disturbance (>18GHz)	4.96

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TEST EQUIPMENT CALIBRATION DATA 5.0

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
Agilent	N9030A	PXA Signal Analyzer	2024-07-08	Annual	2025-07-08	
Anritsu	S820E	Cable and Antenna Analyzer	2024-07-09	Annual	2025-07-08	1839097
Anritsu	MA24106A	USB Power Sensor	2024-07-09	Annual	2025-07-08	1244512
Anritsu	MT8000A	Radio Communication Test Station	2024-09-05	Annual	2025-09-04	6272337405
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	2024-10-07	Biennial	2026-10-06	10160045
Espec	SH-242	Environmental Chamber	2024-07-09	Annual	2025-07-08	93011064
Fairview Microwave	FM2CP1122-10	2.92mm Directional Coupler	2024-07-09	Annual	2025-07-08	1946
Keysight Technologies	N9030B	PXA Signal Analyzer	2024-07-08	Annual	2025-07-08	MY57143278
Mini-Circuits	BW-N10W5+	Attenuator	2024-04-08	Annual	2025-04-07	TEMPNO.01-151
Mini-Circuits	BW-N10W5+	Attenuator	2024-04-08	Annual	2025-04-07	TEMPNO.01-150
NARDA	180-442A-KF	Horn Antenna (small)	2024-01-16	Annual	2025-01-15	T058701-03
Rohde & Schwarz	SMB100A03	Signal Generator	2024-01-11	Annual	2025-01-10	182487
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2024-01-11	Annual	2025-01-10	171075
Rohde & Schwarz	FSW43	Signal and Spectrum Analyzer	2024-01-11	Annual	2025-01-10	101955
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	2024-01-11	Annual	2025-01-10	102131
Schwarzbeck	VULB9162	Broadband TRILOG Antenna	2023-06-01	Biennial	2025-05-31	9162-217
Sunol	DRH-118	Horn Antenna	2023-01-26	Biennial	2025-01-25	A060215

Table 5-1. Test Equipment

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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SAMPLE CALCULATIONS

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHzG = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHzW = Amplitude/Angle Modulated 7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm - (-24.80) = 50.3 dBc.

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TEST RESULTS

7.1 **Summary**

Company Name: Samsung Electronics Co., Ltd.

FCC ID: A3LSMS936B

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
	Transmitter Conducted Output Power	2.1048(a), 2.1048(c)	N/A	PASS	Section 7.2
C C	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3
CONDUCTED	Conducted Band Edge / Spurious Emissions (NR Band n77)	2.1051, 27.53(i), 27.53(n)	≤ -13 dBm / MHz	PASS	Sections 7.4, 7.5
8	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	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n77)	27.50(j)(3), 27.50(k)(3)	≤ 1 Watt EIRP	PASS	Section 7.7
RADI	Radiated Spurious Emissions (NR Band n77)	2.1053, 27.53(I), 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 v1.2.2.

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7.2 Conducted Output Power Data

Test Overview

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

Test Procedure Used

ANSI C63.26-2015 - Section 5.2

Test Settings

- 1. Span = $2 \times OBW$ to $3 \times OBW$
- 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]
	π/2 BPSK	633334	3500.01	1 / 271	25.74
100 MHz	QPSK	633334	3500.01	1 / 271	25.67
	16-QAM	633334	3500.01	1 / 271	24.84
		633000	3495.00	1 / 243	25.87
	π/2 BPSK	633334 633666	3500.01 3504.99	1 / 243	25.97
90 MHz		633000	3495.00	1 / 243	25.86
	QPSK	633334	3500.01	1 / 243	25.81 25.82
		633666	3504.99	1 / 243	25.76
	16-QAM	633000	3495.00	1 / 243	24.89
		632668	3490.02	1 / 215	25.93
	π/2 BPSK	633334	3500.01	1 / 215	25.90
80 MHz		634000 632668	3510.00 3490.02	1 / 215	25.97
OU WITH	QPSK	633334	3500.01	1 / 215 1 / 215	25.79 25.83
	Q. O.	634000	3510.00	1 / 215	25.82
	16-QAM	633334	3500.01	1 / 215	24.85
		632334	3485.01	1 / 94	25.81
	π/2 BPSK	633334	3500.01	1 / 187	25.87
		634332	3514.98	1 / 187	25.81
70 MHz		632334	3485.01	1 / 187	25.67
	QPSK	633334	3500.01	1 / 187	25.86
	16-QAM	634332 634332	3514.98 3514.98	1 / 187 1 / 187	25.77 24.86
	10-QAIVI	632000	3480.00	1 / 160	25.80
	π/2 BPSK	633334	3500.01	1 / 160	25.87
		634666	3519.99	1 / 160	25.75
60 MHz		632000	3480.00	1 / 160	25.63
	QPSK	633334	3500.01	1 / 160	25.83
		634666	3519.99	1 / 160	25.78
	16-QAM	633334	3500.01	1 / 160	24.80
	π/2 BPSK	631668	3475.02	1 / 66	26.11
	II/2 BPSK	633334 635000	3500.01 3525.00	1 / 131	25.97 26.03
50 MHz		631668	3475.02	1 / 131	25.77
	QPSK	633334	3500.01	1 / 131	25.89
		635000	3525.00	1 / 131	25.87
	16-QAM	633334	3500.01	1/1	24.92
		631334	3470.01	1 / 104	25.86
	π/2 BPSK	633334	3500.01	1/1	25.78
40 MHz		635332 631334	3529.98 3470.01	1 / 104	25.78
40 WITZ	QPSK	633334	3500.01	1 / 104	25.84 25.93
	QF3K	635332	3529.98	1 / 104	25.83
	16-QAM	635332	3529.98	1 / 104	24.91
		631000	3465.00	1/1	25.93
	π/2 BPSK	633334	3500.01	1/1	25.99
		635666	3534.99	1 / 76	25.90
30 MHz	QPSK	631000 633334	3465.00 3500.01	1 / 76	25.84
	QFSK	635666	3534.99	1 / 1	25.94 26.02
	16-QAM	633334	3500.01	1/10	24.78
		630834	3462.51	1 / 32	25.98
	π/2 BPSK	633334	3500.01	1/1	26.14
		635832	3537.48	1 / 63	26.02
25 MHz		630834	3462.51	1 / 63	25.71
	QPSK	633334	3500.01	1 / 63	25.91
	16-QAM	635832 633334	3537.48 3500.01	1 / 32	26.04 24.90
	10 QAW	630668	3460.02	1/1	25.83
	π/2 BPSK	633334	3500.01	1/1	25.93
		636000	3540.00	1/1	25.98
20 MHz		630668	3460.02	1 / 49	25.57
	QPSK	633334	3500.01	1/1	25.79
	40.5	636000	3540.00	1 / 25	25.86
	16-QAM	633334	3500.01	1/1	24.72
	π/2 BPSK	630500 633334	3457.50 3500.01	1 / 36	25.93 25.79
	IIIZ DE OK	636166	3542.49	1 / 36	25.79
15 MHz		630500	3457.50	1/1	25.68
	QPSK	633334	3500.01	1 / 36	25.94
		636166	3542.49	1 / 36	25.70
	16-QAM	630500	3457.50	1 / 36	24.79
		630334	3455.01	1/1	25.90
	π/2 BPSK	633334	3500.01	1 / 22	25.87
10 MH=		636332	3544.98	1/1	26.06
10 MHz	QPSK	630334 633334	3455.01 3500.01	1 / 12	25.41 25.87
	WI OIL	636332	3544.98	1 / 22	26.06
	16-QAM	636332	3544.98	1/1	24.80
/-1. Cond				nd n77 Do	

Table 7-1. Conducted Power Data (NR Band n77 DoD-band – Ant F)

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100 MHz	Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz		TT/2 BPSK				
OPSK 650000 3840.00 11/371 25.51 16-QAM 652000 3930.00 11/271 26.10 16-QAM 652000 3930.00 11/271 26.10 172 BPSK 650000 3840.00 11/272 26.09 662332 3934.98 11/243 26.15 16-QAM 649668 3745.02 11/243 26.19 16-QAM 649668 3745.02 11/243 26.18 16-QAM 662666 3939.99 11/215 26.06 662666 3939.99 11/215 26.06 67866 3939.99 11/215 26.41 16-QAM 662666 3939.99 11/215 26.41 16-QAM 662666 3939.99 11/215 26.43 16-QAM 662666 3939.99 11/215 26.33 16-QAM 662666 3939.99 11/215 26.34 16-QAM 662666 3939.99 11/215 26.34 16-QAM 662660 3939.99 11/215 26.34 16-QAM 662600 3840.00 11/1 26.32 663000 3945.00 11/187 26.39 16-QAM 663000 3945.00 11/187 26.39 16-QAM 663000 3840.00 11/1 26.32 16-QAM 663000 3840.00 11/1 26.31 16-QAM 663000 3840.00 11/1 26.34 16-QAM 663000 3840.00 11/1 26.34 16-QAM 663000 3840.00 11/1 26.34 16-QAM 663000 3840.00 11/1 26.44 16-QAM 663000 3840.00 11/1 26.49 16-QAM 666000 3840.00 11/1 26.45 16-QAM 666000 3840.00 11/1 26.55 16-QAM 666000 3840.00 11/1 26.55 16-QAM 666000 3840.00 11/1 26.55 16-QAM 6	100 MHz					
16-QAM 662000 3930.00 1 / 271 26.10	100 111112	QPSK				
90 MHz 10 MHz			662000			
90 MHz		16-QAM	662000	3930.00	1 / 271	25.11
90 MHz 663322 3934.98 1/243 25.88 669000 3840.00 1/122 25.13 16-CAM 669080 3745.02 1/243 25.98 16-CAM 696980 3745.02 1/243 25.08 16-CAM 696980 3745.02 1/243 25.13 16-CAM 696980 3745.02 1/243 25.13 16-CAM 696980 3745.02 1/243 25.13 16-CAM 669698 3745.02 1/243 25.13 16-CAM 669698 3939.99 1/215 25.41 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 26.43 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/215 25.44 682666 3393.99 1/167 26.33 682660 3945.00 1/14 26.33 682666 3945.00 1/14 26.33 682666 3940.00 1/1 26.21 682666 3393.99 1/26 26.45 682666 3393.99 1/26 26.45 682666 3393.99 1/26 26.45 682666 3393.99 1/26 26.45 682666 3394.99 1/26 26.45 682666 3394.99 1/26 26.45 682666 3949.99 1/26 26.47 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.41 682666 3949.99 1/26 26.43 682666 3940.00 1/2 26.33 682666 3940.00 1/2 26.33 682666 3940.00 1/2 26.33 682666 3940.00 1/2 26.33 682666 3940.00 1/2 26.33 682666 3940.00 1/2 26.33 682666 3940.00 1/2						26.15
90 MHz QPSK 666000 03840.00 11/122 26.13 16-0AM 648688 3745.02 11/243 26.08 16-0AM 648688 3745.02 11/243 26.08 16-0AM 648688 3745.02 11/243 26.08 11/243 26.09 11/215 26.41 11/25 26.		π/2 BPSK				
OPSK 666000 3840.00 1/1/22 26.13	00 MH-					
16-QAM	90 IVITZ	OPSK				
16-QAM		QI OIL				
80 MHz G62066 38840.00		16-QAM	649668			
			649334	3740.01	1 / 215	26.20
SO MHz		π/2 BPSK	656000		1/1	26.40
OPSK 656000 3840.00 1 / 1 26.44						
	80 MHz	ODOK				
16-QAM 662666 39393.99 1 1/215 25.74 172 BPSK 665000 3840.00 1/194 26.12 G65000 3945.00 1/187 26.38 G65000 3945.00 1/187 26.38 G65000 3945.00 1/187 26.39 G65000 3945.00 1/187 26.37 16-QAM 665000 3840.00 1/1187 26.37 16-QAM 665000 3840.00 1/1187 26.37 16-QAM 665000 3840.00 1/11 26.41 G48688 3730.02 1/160 26.05 G65000 3840.00 1/11 26.41 G9SK 666000 3840.00 1/11 26.29 G653332 3949.98 1/160 26.07 G65000 3840.00 1/11 26.49 G653332 3949.98 1/160 25.37 IG-QAM 663332 3949.98 1/160 25.37 G65000 3840.00 1/11 26.49 G653332 3949.98 1/160 25.37 G65000 3840.00 1/1 26.49 G65332 3949.98 1/160 25.37 IG-QAM 663332 3949.98 1/166 26.41 G64834 3725.01 1/131 26.48 G65666 3954.99 1/66 26.41 G656000 3840.00 1/1 26.43 G656000 3840.00 1/1 26.44 G64600 3960.00 1/104 26.49 G65000 3840.00 1/1 26.40 G64000 3960.00 1/104 26.49 G65000 3840.00 1/1 26.40 G64000 3960.00 1/104 26.49 G65000 3840.00 1/1 26.40 G64000 3960.00 1/104 26.38 G65000 3840.00 1/1 26.40 G64000 3960.00 1/104 26.38 G65000 3840.00 1/1 26.40 G64000 3960.00 1/104 26.39 G65000 3840.00 1/1 26.30 G65000 3840.00 1/1 26.30 G64500 3960.00 1/104 26.38 G65000 3840.00 1/1 26.30 G64500 3960.00 1/104 26.39 G64332 3964.98 1/76 26.36 G64332 3964.98 1/76 26		QPSK				
70 MHz 649000 3735.00 1/94 26.12		16-OAM				
70 MHz 65000 3945.00 1 / 167 26.32 663000 3945.00 1 / 1787 26.38 663000 3945.00 1 / 1787 26.38 663000 3945.00 1 / 1787 26.33 663000 3945.00 1 / 1787 26.33 16-QAM 656000 3940.00 1 / 17 26.33 16-QAM 656000 3940.00 1 / 17 26.43 663000 3945.00 1 / 1787 26.53 16-QAM 656000 3940.00 1 / 17 26.21 663332 3949.98 1 / 160 26.45 663332 3949.98 1 / 160 26.45 663332 3949.98 1 / 160 26.47 663332 3949.98 1 / 160 26.47 663332 3949.98 1 / 160 26.47 663332 3949.98 1 / 160 26.47 16-QAM 656000 3940.00 1 / 17 26.29 663332 3949.99 1 / 160 25.37 648334 3725.01 1 / 1731 26.48 663332 3949.99 1 / 160 25.37 648334 3725.01 1 / 1731 26.48 663332 3949.99 1 / 166 25.37 648334 3725.01 1 / 1731 26.48 663666 3954.99 1 / 166 26.41 663666 3954.99 1 / 160 26.43 663666 3954.99 1 / 160 26.43 6636000 3840.00 1 / 17 26.43 663600 3840.00 1 / 17 26.43 663600 3840.00 1 / 17 26.43 663600 3840.00 1 / 17 26.43 663600 3840.00 1 / 17 26.43 664000 3960.00 1 / 104 26.49 664000 3960.00 1 / 104 26.49 664000 3960.00 1 / 104 26.43 664000 3960.00 1 / 104 26.43 664000 3960.00 1 / 104 26.43 664000 3960.00 1 / 104 26.43 664000 3960.00 1 / 104 26.43 664000 3960.00 1 / 104 26.43 664000 3960.00 1 / 104 26.43 664000 3960.00 1 / 104 26.43 664000 3960.00 1 / 170 26.61 664000 3960.00 1 / 170 26.61 664000 3960.00 1 / 170 26.61 664000 3960.00 1 / 170 26.41 664000 3960		10-QAW				
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15 MHz	20 MHz	π/2 BPSK	656000 664666 647334 656000	3840.00 3969.99 3710.01 3840.00	1 / 25 1 / 25 1 / 49 1 / 49	26.35 25.92 26.37
15 MHz	20 MHz	π/2 BPSK QPSK	656000 664666 647334 656000 664666	3840.00 3969.99 3710.01 3840.00 3969.99	1/25 1/25 1/49 1/49 1/1	26.35 25.92 26.37 26.45
15 MHz 664832 3972.48 1/1 26.07 647168 3707.52 1/1 25.93 668000 3840.00 1/1 26.23 664832 3972.48 1/1 26.20 664832 3972.48 1/1 26.20 664832 3972.48 1/1 26.20 664832 3972.48 1/1 26.20 647000 3705.00 1/22 25.31 669000 3840.00 1/22 25.81 669000 3975.00 1/12 25.82 647000 3705.00 1/12 25.82 647000 3705.00 1/12 25.82 669000 3975.00 1/12 25.82 669000 3840.00 1/22 25.92 669000 3840.00 1/22 25.92 669000 3975.00 1/1 26.17	20 MHz	π/2 BPSK QPSK	656000 664666 647334 656000 664666 656000	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00	1/25 1/25 1/49 1/49 1/1 1/25	26.35 25.92 26.37 26.45 25.54
QPSK 656000 3840.00 1/1 26.23 16-QAM 656000 3875.00 1/22 25.31 10 MHz QPSK 656000 3870.00 1/12 25.82 10 MHz QPSK 656000 3875.00 1/12 25.82 10 MHz 656000 3875.00 1/12 25.82 656000 3875.00 1/12 25.82 656000 3875.00 1/12 25.82 656000 3840.00 1/22 25.92 665000 3840.00 1/22 25.92 665000 3875.00 1/1 26.17	20 MHz	π/2 BPSK QPSK 16-QAM	656000 664666 647334 656000 664666 656000 647168	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52	1/25 1/25 1/49 1/49 1/1 1/25	26.35 25.92 26.37 26.45 25.54 25.93
16-QAM 656000 3840.00 1/36 25.17		π/2 BPSK QPSK 16-QAM	656000 664666 647334 656000 664666 656000 647168 656000	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00	1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36	26.35 25.92 26.37 26.45 25.54 25.93 26.23
16-QAM 656000 3840.00 1/36 25.17 47000 3705.00 1/22 25.31 π/2 BPSK 656000 3840.00 1/22 25.81 665000 3975.00 1/12 25.82 10 MHz 647000 3705.00 1/12 25.84 QPSK 666000 3705.00 1/1 25.48 666000 3840.00 1/22 25.92 665000 3705.00 1/1 26.17		π/2 BPSK QPSK 16-QAM π/2 BPSK	656000 664666 647334 656000 664666 656000 647168 656000 664832 647168	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3707.52	1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36 1/1	26.35 25.92 26.37 26.45 25.54 25.93 26.23 26.07
10 MHz		π/2 BPSK QPSK 16-QAM π/2 BPSK	656000 664666 647334 656000 664666 656000 647168 656000 664832 647168	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3707.52	1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36 1/1 1/1	26.35 25.92 26.37 26.45 25.54 25.93 26.23 26.07 25.93 26.23
T/2 BPSK 656000 3840.00 1/22 25.81 656000 3975.00 1/12 25.82 647000 3705.00 1/12 25.82 647000 3705.00 1/1 25.48 656000 3840.00 1/22 25.92 665000 3975.00 1/1 26.17		TI/2 BPSK QPSK 16-QAM TI/2 BPSK QPSK	656000 664666 647334 656000 664666 656000 647168 656000 664832 647168 656000 664832	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3707.52 3840.00	1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36 1/1 1/1 1/1	26.35 25.92 26.37 26.45 25.54 25.93 26.23 26.07 25.93 26.23 26.23 26.23 26.20
665000 3975.00 1/12 25.82 10 MHz 647000 3705.00 1/1 25.48 QPSK 666000 3840.00 1/22 25.92 665000 3975.00 1/1 26.17		TI/2 BPSK QPSK 16-QAM TI/2 BPSK QPSK	656000 664666 647334 656000 664666 656000 647168 656000 664832 647168 656000 664832	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3707.52 3840.00 3972.48	1/25 1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36 1/1 1/1 1/1 1/1 1/1	26.35 25.92 26.37 26.45 25.54 25.93 26.23 26.07 25.93 26.23 26.20 25.17
10 MHz QPSK 647000 3705.00 1 / 1 25.48 656000 3840.00 1 / 22 25.92 665000 3975.00 1 / 1 26.17		TI/2 BPSK QPSK 16-QAM TI/2 BPSK QPSK 16-QAM	656000 664666 647334 656000 664666 656000 647168 656000 664832 647168 656000 664832 656000 664700	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3707.52 3840.00 3972.48 3972.48	1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36 1/1 1/1 1/1 1/36 1/22	26.35 25.92 26.37 26.45 25.54 25.93 26.23 26.07 25.93 26.23 26.20 25.17 25.31
QPSK 656000 3840.00 1 / 22 25.92 665000 3975.00 1 / 1 26.17		TI/2 BPSK QPSK 16-QAM TI/2 BPSK QPSK 16-QAM	656000 664666 647334 656000 664666 656000 647168 656000 664332 647168 656000 664832 656000 647000 656000	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3707.52 3840.00 3972.48 3840.00 3972.48	1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/	26.35 25.92 26.37 26.45 25.54 25.93 26.23 26.07 25.93 26.23 26.20 25.23 26.20 25.31 25.31
665000 3975.00 1 / 1 26.17	15 MHz	TI/2 BPSK QPSK 16-QAM TI/2 BPSK QPSK 16-QAM	656000 664666 647334 656000 664666 656000 647168 656000 664832 64706 664832 656000 645000 656000	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3707.52 3840.00 3972.48 3840.00 3972.48 3840.00 3972.48	1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36 1/1 1/1 1/1 1/1 1/36 1/22 1/22 1/12	26.35 25.92 26.37 26.45 25.54 25.93 26.23 26.07 25.93 26.23 26.20 25.17 25.31 25.81
	15 MHz	TI/2 BPSK QPSK 16-QAM TI/2 BPSK QPSK 16-QAM TI/2 BPSK	656000 664666 647334 656000 664666 656000 647168 656000 664832 647168 656000 664832 656000 647000	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3707.52 3840.00 3972.48 3840.00 3975.00 3975.00	1/25 1/25 1/49 1/49 1/1 1/25 1/1 1/36 1/1 1/1 1/1 1/1 1/1 1/2 1/22 1/22 1/12	26.35 25.92 26.37 26.45 25.54 25.93 26.23 26.07 25.93 26.23 26.20 25.17 25.31 25.81 25.82 25.48
	15 MHz	TI/2 BPSK QPSK 16-QAM TI/2 BPSK QPSK 16-QAM TI/2 BPSK	656000 664666 647334 656000 664666 656000 644168 656000 66432 647168 656000 647000 656000 6650000 6650000	3840.00 3969.99 3710.01 3840.00 3969.99 3840.00 3707.52 3840.00 3972.48 3872.48 3840.00 3975.00 3875.00 3875.00	1/25 1/25 1/49 1/49 1/49 1/1 1/25 1/1 1/36 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/22	26.35 25.92 26.37 26.45 25.54 25.54 26.07 26.23 26.23 26.23 26.23 26.23 26.23 26.23 26.23 26.23 26.23 26.24 25.31 25.81 25.81 25.82 25.82 25.81

Table 7-2. Conducted Power Data (NR Band n77 C-band - Ant F)

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
	π/2 BPSK	633334	3500.01	270 / 0	19.56
100 MHz	QPSK	633334	3500.01	1 / 136	19.52
	16-QAM	633334	3500.01	1 / 136	19.06

Table 7-3. Conducted Power Data (NR Band n77 DoD - Ant C)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
		650000	3750.00	1 / 271	18.78
	π/2 BPSK	656000	3840.00	1 / 271	18.43
		662000	3930.00	1 / 271	18.78
100 MHz		650000	3750.00	1 / 271	18.71
	QPSK	656000	3840.00	1 / 271	18.43
		662000	3930.00	1 / 271	18.83
	16-QAM	662000	3930.00	1 / 271	18.26

Table 7-4. Conducted Power Data (NR Band n77 C-band - Ant C)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
	π/2 BPSK	633334	3500.01	1 / 136	24.23
100 MHz	QPSK	633334	3500.01	1 / 136	24.17
	16-QAM	633334	3500.01	1 / 136	23.18

Table 7-5. Conducted Power Data (NR Band n77 DoD - Ant I)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
		650000	3750.00	1 / 136	23.14
	π/2 BPSK	656000	3840.00	1 / 204	23.46
		662000	3930.00	1 / 136	24.02
100 MHz		650000	3750.00	1 / 136	23.27
	QPSK	656000	3840.00	1 / 204	23.41
		662000	3930.00	1 / 136	23.99
	16-QAM	662000	3930.00	1 / 136	23.24

Table 7-6. Conducted Power Data (NR Band n77 C-band - Ant I)

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
	π/2 BPSK	633334	3500.01	270 / 0	18.30
100 MHz	QPSK	633334	3500.01	1 / 136	18.12
	16-QAM	633334	3500.01	1 / 271	17.59

Table 7-7. Conducted Power Data (NR Band n77 DoD - Ant D)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
		650000	3750.00	270 / 0	18.75
	π/2 BPSK	656000	3840.00	1 / 1	17.60
		662000	3930.00	270 / 0	18.15
100 MHz		650000	3750.00	1 / 136	18.57
	QPSK	656000	3840.00	1 / 136	17.57
		662000	3930.00	1 / 1	17.87
	16-QAM	650000	3750.00	1 / 136	17.85

Table 7-8. Conducted Power Data (NR Band n77 C-band – Ant D)

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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 x 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.

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Mode	Bandwidth	Modulation	OBW [MHz]
		π/2 BPSK	96.92
	100MHz	QPSK	98.10
		16QAM	98.17
		π/2 BPSK	87.48
	90MHz	QPSK	87.95
		16QAM	87.91
		π/2 BPSK	77.53
	80MHz	QPSK	77.78
		16QAM	77.78
		π/2 BPSK	64.68
	70MHz	QPSK	67.90
		16QAM	67.75
		π/2 BPSK	58.22
	60MHz	QPSK	58.16
		16QAM	58.12
		π/2 BPSK	46.17
	50MHz	QPSK	47.85
NR-n77PC2-R1		16QAM	47.76
NR-II//PC2-R1		π/2 BPSK	35.95
	40MHz	QPSK	38.00
		16QAM	38.00
		π/2 BPSK	26.98
	30MHz	QPSK	28.06
		16QAM	28.12
		π/2 BPSK	22.95
	25MHz	QPSK	23.30
		16QAM	23.29
		π/2 BPSK	18.05
	20MHz	QPSK	18.36
		16QAM	18.34
		π/2 BPSK	12.95
	15MHz	QPSK	13.69
		16QAM	13.69
		π/2 BPSK	8.71
	10MHz	QPSK	8.68
		16QAM	8.67

Table 7-2. Occupied Bandwidth Test Results – NR Band n77 DoD – Ant F

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Mode	Bandwidth	Modulation	OBW [MHz]
		π/2 BPSK	97.03
	100MHz	QPSK	98.03
		16QAM	98.09
		π/2 BPSK	87.39
	90MHz	QPSK	88.05
		16QAM	87.93
		π/2 BPSK	77.51
	80MHz	QPSK	77.81
		16QAM	77.88
		π/2 BPSK	64.57
	70MHz	QPSK	67.66
		16QAM	67.72
		π/2 BPSK	58.32
	60MHz	QPSK	58.29
		16QAM	58.28
	50MHz	π/2 BPSK	46.04
		QPSK	47.78
NR-n77PC2		16QAM	47.84
MICHITI 02	40MHz	π/2 BPSK	35.94
		QPSK	38.15
		16QAM	38.05
		π/2 BPSK	27.00
	30MHz	QPSK	28.07
		16QAM	28.08
		π/2 BPSK	22.96
	25MHz	QPSK	23.34
		16QAM	23.26
		π/2 BPSK	17.97
	20MHz	QPSK	18.33
		16QAM	18.31
		π/2 BPSK	12.98
	15MHz	QPSK	13.67
		16QAM	13.72
		π/2 BPSK	8.65
	10MHz	QPSK	8.67
		16QAM	8.69

Table 7-3. Occupied Bandwidth Test Results - NR Band n77 C Band - Ant F

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NR Band n77 DoD - Ant F



Plot 7-9. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz π/2 BPSK - Full RB - Ant F)

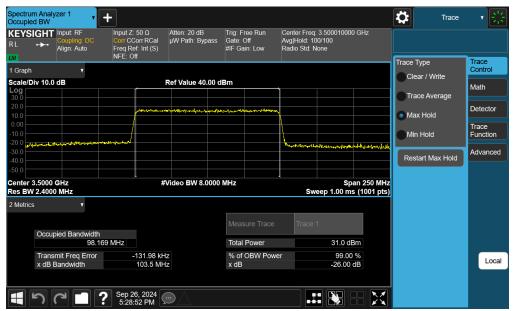


Plot 7-10. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz QPSK - Full RB - Ant F)

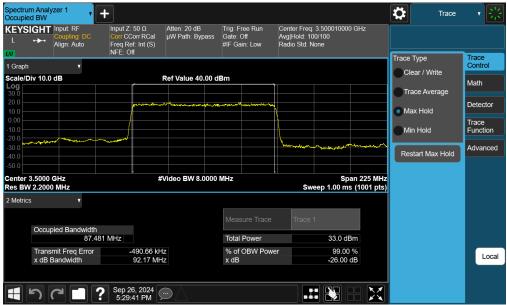
FCC ID: A3LSMS936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-11. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz 16-QAM - Full RB - Ant F)



Plot 7-12. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz π/2 BPSK - Full RB - Ant F)

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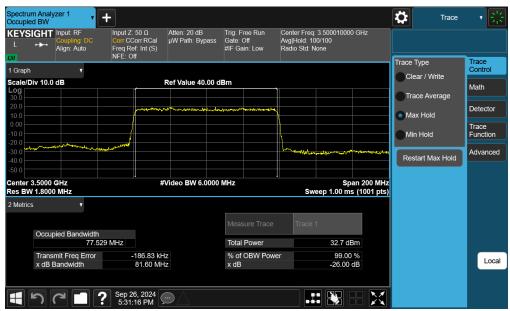
Plot 7-13. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz QPSK - Full RB - Ant F)



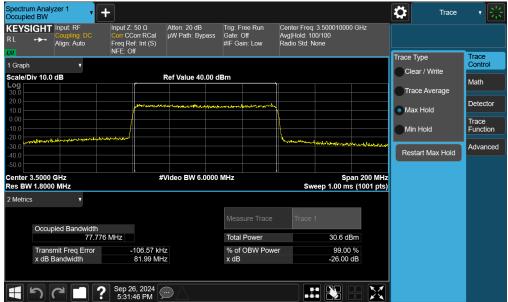
Plot 7-14. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz 16-QAM - Full RB - Ant F)

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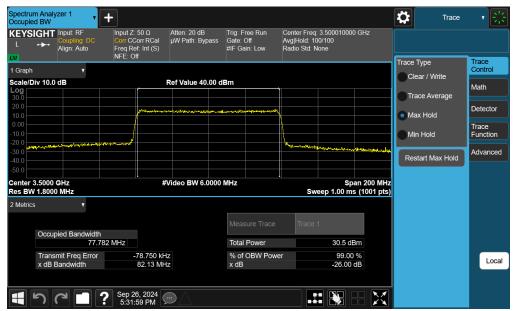
Plot 7-15. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz π/2 BPSK - Full RB - Ant F)



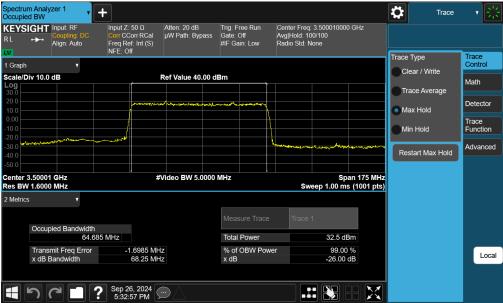
Plot 7-16. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz QPSK - Full RB - Ant F)

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Plot 7-17. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz 16-QAM - Full RB - Ant F)

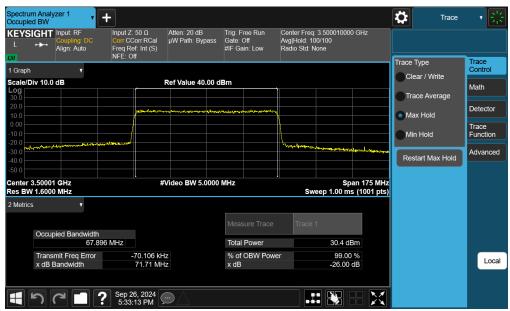


Plot 7-18. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz 7π/2 BPSK - Full RB - Ant F)

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Plot 7-19. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz QPSK - Full RB - Ant F)

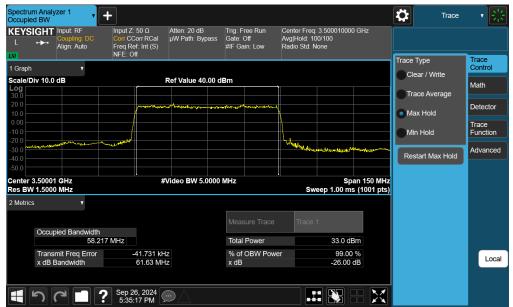


Plot 7-20. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz 16-QAM - Full RB - Ant F)

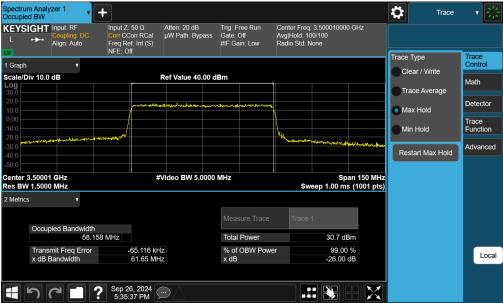
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Plot 7-21. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz π/2 BPSK - Full RB - Ant F)



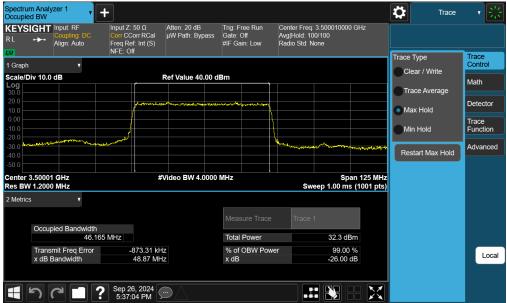
Plot 7-22. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz QPSK - Full RB - Ant F)

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Plot 7-23. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz 16-QAM - Full RB - Ant F)



Plot 7-24. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-25. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz QPSK - Full RB - Ant F)



Plot 7-26. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz 16-QAM - Full RB - Ant F)

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Plot 7-27. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz π /2 BPSK - Full RB - Ant F)

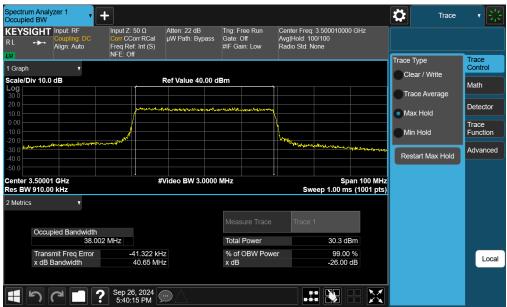


Plot 7-28. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz QPSK - Full RB - Ant F)

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Plot 7-29. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz 16-QAM - Full RB - Ant F)



Plot 7-30. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz π/2 BPSK - Full RB - Ant F)

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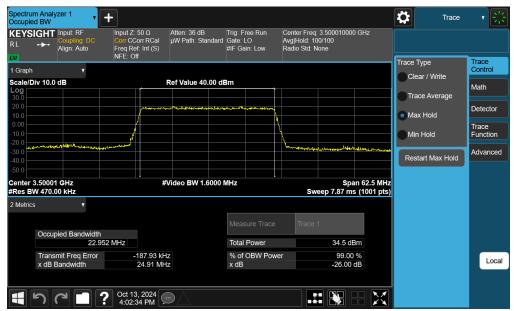
Plot 7-31. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz QPSK - Full RB - Ant F)



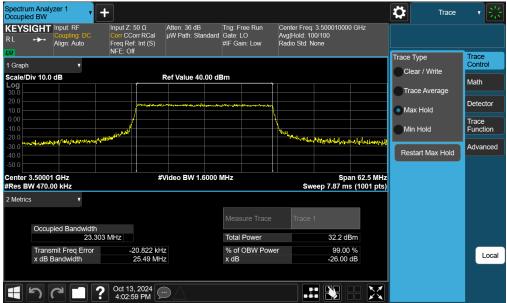
Plot 7-32. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz 16-QAM - Full RB - Ant F)

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Plot 7-33. Occupied Bandwidth Plot (NR Band n77 DoD - 25MHz π /2 BPSK - Full RB - Ant F)



Plot 7-34. Occupied Bandwidth Plot (NR Band n77 DoD - 25MHz QPSK - Full RB - Ant F)

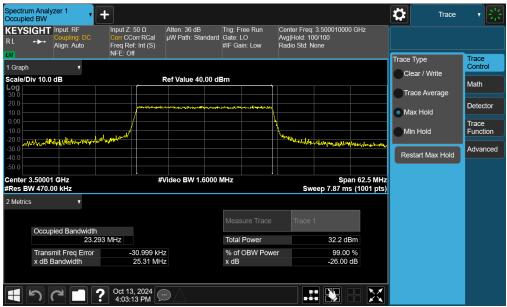
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Plot 7-35. Occupied Bandwidth Plot (NR Band n77 DoD - 25MHz 16-QAM - Full RB - Ant F)



Plot 7-36. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-37. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz QPSK - Full RB - Ant F)



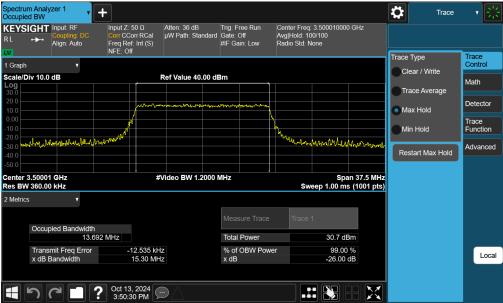
Plot 7-38. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz 16-QAM - Full RB - Ant F)

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Plot 7-39. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz π/2 BPSK - Full RB - Ant F)



Plot 7-40. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz QPSK - Full RB - Ant F)

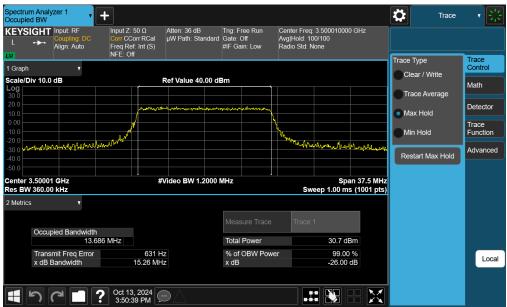
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Plot 7-41. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz 16-QAM - Full RB - Ant F)



Plot 7-42. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-43. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz QPSK - Full RB - Ant F)

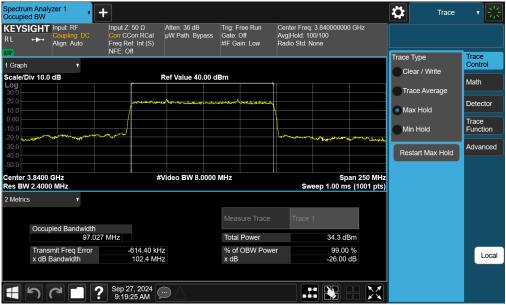


Plot 7-44. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz 16-QAM - Full RB - Ant F)

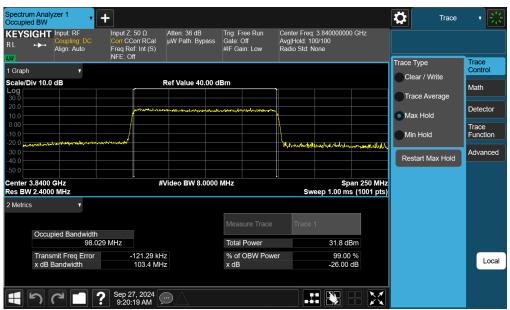
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NR Band n77 C-band - Ant F



Plot 7-45. Occupied Bandwidth Plot (NR Band n77 C-band - 100MHz π/2 BPSK - Full RB - Ant F)

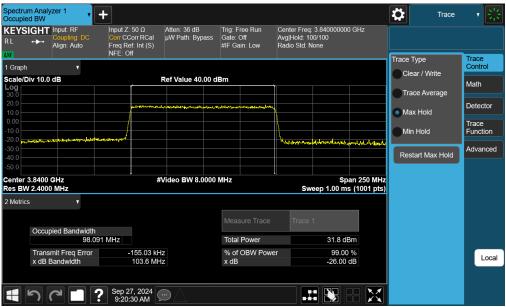


Plot 7-46. Occupied Bandwidth Plot (NR Band n77 C-band - 100MHz QPSK - Full RB - Ant F)

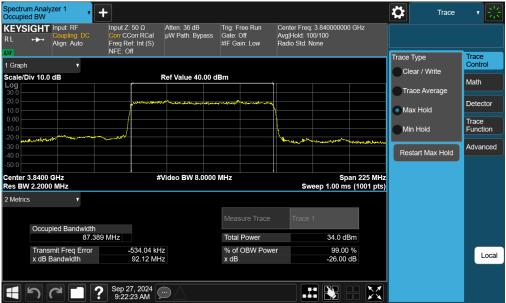
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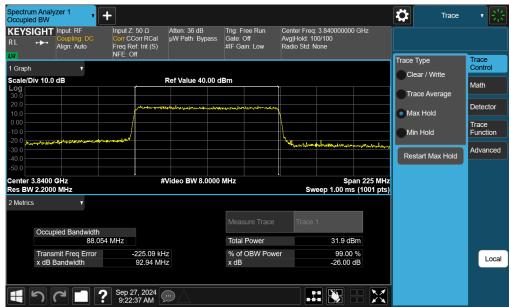
Plot 7-47. Occupied Bandwidth Plot (NR Band n77 C-band - 100MHz 16-QAM - Full RB - Ant F)



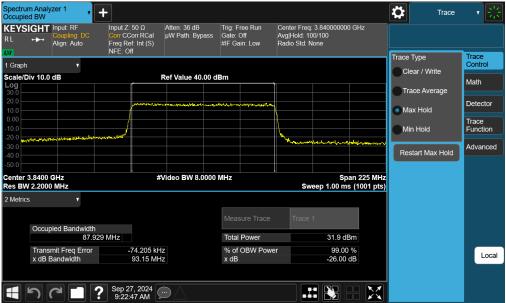
Plot 7-48. Occupied Bandwidth Plot (NR Band n77 C-band - 90MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-49. Occupied Bandwidth Plot (NR Band n77 C-band - 90MHz QPSK - Full RB - Ant F)



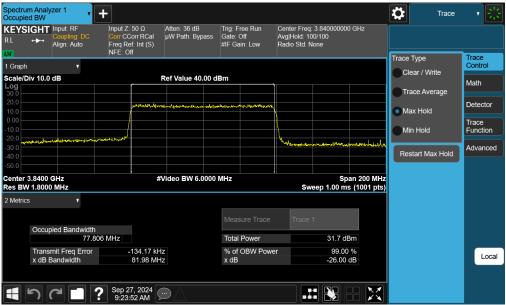
Plot 7-50. Occupied Bandwidth Plot (NR Band n77 C-band - 90MHz 16-QAM - Full RB - Ant F)

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Plot 7-51. Occupied Bandwidth Plot (NR Band n77 C-band - 80MHz π/2 BPSK - Full RB - Ant F)

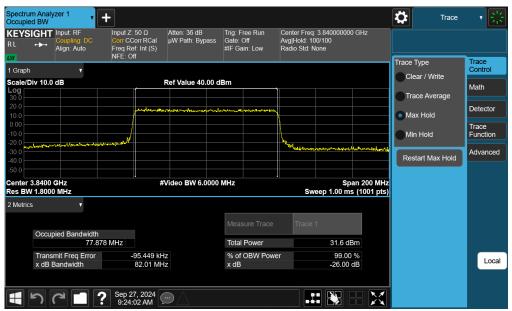


Plot 7-52. Occupied Bandwidth Plot (NR Band n77 C-band - 80MHz QPSK - Full RB - Ant F)

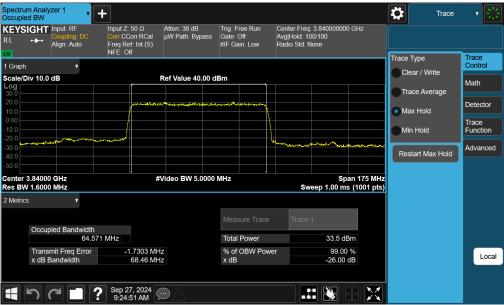
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Plot 7-53. Occupied Bandwidth Plot (NR Band n77 C-band - 80MHz 16-QAM - Full RB - Ant F)



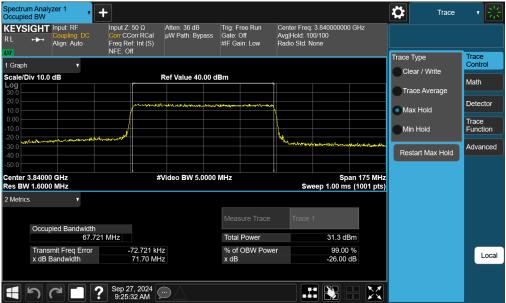
Plot 7-54. Occupied Bandwidth Plot (NR Band n77 C-band - 70MHz 7π/2 BPSK - Full RB - Ant F)

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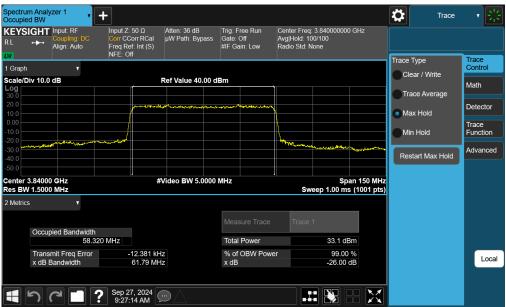
Plot 7-55. Occupied Bandwidth Plot (NR Band n77 C-band - 70MHz QPSK - Full RB - Ant F)



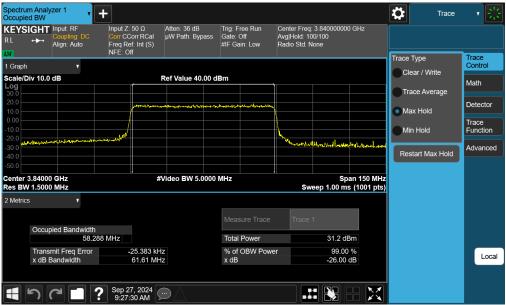
Plot 7-56. Occupied Bandwidth Plot (NR Band n77 C-band - 70MHz 16-QAM - Full RB - Ant F)

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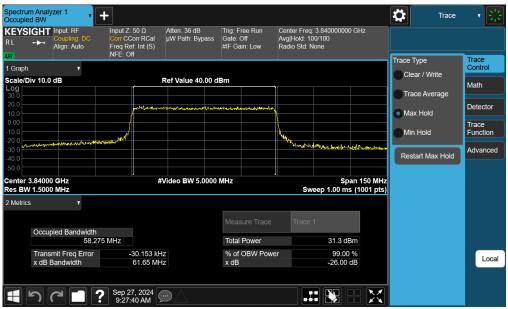
Plot 7-57. Occupied Bandwidth Plot (NR Band n77 C-band - 60MHz π/2 BPSK - Full RB - Ant F)



Plot 7-58. Occupied Bandwidth Plot (NR Band n77 C-band - 60MHz QPSK - Full RB - Ant F)

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Plot 7-59. Occupied Bandwidth Plot (NR Band n77 C-band - 60MHz 16-QAM - Full RB - Ant F)



Plot 7-60. Occupied Bandwidth Plot (NR Band n77 C-band - 50MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-61. Occupied Bandwidth Plot (NR Band n77 C-band - 50MHz QPSK - Full RB - Ant F)



Plot 7-62. Occupied Bandwidth Plot (NR Band n77 C-band - 50MHz 16-QAM - Full RB - Ant F)

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