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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:

10/31/2025 - 12/19/2025

Test Report Issue Date:

1/15/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2510280091-08-R1.A3L

FCC ID:

A3LSMA576B

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-A576B/DS

Additional Model(s):

SM-A576B

EUT Type:

Portable Handset

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

27

Test Procedure(s):

ANSI C63.26-2015

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

This revised Test Report (S/N: 1M2510280091-08-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2510280091-08.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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.



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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	1/14/2026	WKR0000005883
1	Addressed comments made by TCB reviewer	1/15/2026	WKR0000005883

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Antenna-1						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
LTE Band 41 (PC3)	20 MHz	QPSK	2506.0 - 2680.0	0.212	23.26	18M0G7D
		16QAM	2506.0 - 2680.0	0.178	22.51	18M0W7D
	15 MHz	QPSK	2503.5 - 2682.5	0.213	23.28	13M6G7D
		16QAM	2503.5 - 2682.5	0.181	22.57	13M5W7D
	10 MHz	QPSK	2501.0 - 2685.0	0.214	23.30	9M04G7D
		16QAM	2501.0 - 2685.0	0.180	22.56	9M02W7D
	5 MHz	QPSK	2498.5 - 2687.5	0.216	23.35	4M52G7D
		16QAM	2498.5 - 2687.5	0.181	22.58	4M53W7D

Overview Table LTE Band Ant 1

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Antenna-1						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n41(PC3)	100 MHz	TT/2 BPSK	2546.0 - 2640.0	0.230	23.62	97M0G7D
		QPSK	2546.0 - 2640.0	0.241	23.81	98M0G7D
		16QAM	2546.0 - 2640.0	0.182	22.59	97M8W7D
	90 MHz	TT/2 BPSK	2541.0 - 2645.0	0.231	23.63	87M3G7D
		QPSK	2541.0 - 2645.0	0.251	24.00	88M1G7D
		16QAM	2541.0 - 2645.0	0.188	22.75	87M8W7D
	80 MHz	TT/2 BPSK	2536.0 - 2650.0	0.232	23.66	77M7G7D
		QPSK	2536.0 - 2650.0	0.252	24.01	77M8G7D
		16QAM	2536.0 - 2650.0	0.187	22.72	77M8W7D
	70 MHz	TT/2 BPSK	2531.0 - 2655.0	0.239	23.79	64M7G7D
		QPSK	2531.0 - 2655.0	0.252	24.01	64M5G7D
		16QAM	2531.0 - 2655.0	0.185	22.67	67M7W7D
	60 MHz	TT/2 BPSK	2526.0 - 2660.0	0.237	23.74	58M4G7D
		QPSK	2526.0 - 2660.0	0.247	23.92	58M2G7D
		16QAM	2526.0 - 2660.0	0.193	22.85	58M2W7D
	50 MHz	TT/2 BPSK	2521.0 - 2665.0	0.239	23.79	46M1G7D
		QPSK	2521.0 - 2665.0	0.252	24.01	47M9G7D
		16QAM	2521.0 - 2665.0	0.194	22.87	47M8W7D
	40 MHz	TT/2 BPSK	2516.0 - 2670.0	0.241	23.81	37M8G7D
		QPSK	2516.0 - 2670.0	0.251	23.99	38M2G7D
		16QAM	2516.0 - 2670.0	0.190	22.79	38M1W7D
	30 MHz	TT/2 BPSK	2511.0 - 2675.0	0.236	23.73	27M9G7D
		QPSK	2511.0 - 2675.0	0.256	24.08	27M0G7D
		16QAM	2511.0 - 2675.0	0.193	22.86	28M1W7D
	20 MHz	TT/2 BPSK	2506.0 - 2680.0	0.229	23.60	18M3G7D
		QPSK	2506.0 - 2680.0	0.251	24.00	18M4G7D
		16QAM	2506.0 - 2680.0	0.186	22.70	18M4W7D
	15 MHz	TT/2 BPSK	2503.5 - 2682.5	0.227	23.55	13M0G7D
		QPSK	2503.5 - 2682.5	0.248	23.94	13M7G7D
		16QAM	2503.5 - 2682.5	0.190	22.78	13M7W7D
	10 MHz	TT/2 BPSK	2501.0 - 2685.0	0.221	23.44	8M74G7D
		QPSK	2501.0 - 2685.0	0.240	23.80	8M74G7D
		16QAM	2501.0 - 2685.0	0.187	22.72	8M70W7D

Overview Table NR Band Ant 1

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Antenna-2						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
LTE Band 41 (PC3)	20 MHz	QPSK	2506.0 - 2680.0	0.158	21.98	18M0G7D
		16QAM	2506.0 - 2680.0	0.112	20.48	18M0W7D
	15 MHz	QPSK	2503.5 - 2682.5	0.160	22.04	13M5G7D
		16QAM	2503.5 - 2682.5	0.110	20.42	13M5W7D
	10 MHz	QPSK	2501.0 - 2685.0	0.159	22.01	9M06G7D
		16QAM	2501.0 - 2685.0	0.114	20.57	9M05W7D
	5 MHz	QPSK	2498.5 - 2687.5	0.158	21.99	4M54G7D
		16QAM	2498.5 - 2687.5	0.111	20.46	4M53W7D

Overview Table LTE Band Ant 2

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered test laboratory with the site description on file with ISED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113).
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMA576B**. 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.

The authorization for this device utilize data referencing from FCC ID: A3LSMA576U as permitted per KDB 484596 D01 v03. Data referencing data test results are included in Appendix A of this report.

Test Device Serial No.: 3123M, 0837M, 0103M, 1883M, 0116M, 3070M, 2420M, 3095M, 3074M, 0551M, 0113M, 0120M, 0111M

2.2 Device Capabilities

This device contains the following capabilities:

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

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

This device can transmit in the 5G NR Band n41 band over four separate antennas labelled SRS-1, SRS-2, SRS-3, and SRS-4. SRS operation can occur on either the main or switching path. With SRS operations, any of these four antennas can transmit an SRS signal to check the channel quality for transmission in the n41 Band. However, these antennas cannot simultaneously transmit and only the SRS-1 antenna is capable of data transmission. The test data is marked to indicate the specific antenna transmitting in the n41 band.

Band	Ant1	Ant2
LTE Band 41 PC3	Ant B	Ant F
NR Band n41	Ant B	-

Table 2-1. Antenna Report Naming Convention

Antenna SRS-Label	Alternate Label
NR Band n41 – SRS-1	Ant B
NR Band n41 – SRS-2	Ant F
NR Band n41 – SRS-3	Ant H
NR Band n41 – SRS-4	Ant J

Table 2-2. Antenna Labelling Scheme Correlation

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2.3 Test Configuration

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

2.4 Duty Cycle Information

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

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

2.5 Software and Firmware

Testing was performed on device(s) using software/firmware version A576U1UEU0AYJ1 installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious Emissions

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

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

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

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

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

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

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

And

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

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

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

Table 4-1. Measurement Uncertainty Budget

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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	MD 1M 40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 40
-	AP1-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP1-002
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	AP2-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-002
-	ETS-001	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-001
-	ETS-002	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-002
-	LTx1	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx1
-	LTx6-40	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx6-40
-	WL40-1	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-1
-	WL40-2	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-2
-	WL40-3	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-3
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
Anritsu	MT8000A	Radio Communication Test Station	6/4/2025	Annual	6/4/2026	6261914237
Anritsu	MT8000A	Radio Communication Test Station	3/11/2025	Annual	3/11/2026	6272337439
Anritsu	MT8821C	Radio Communication Analyze	9/15/2025	Annual	9/15/2026	6201381794
Anritsu	MT8821C	Radio Communication Analyze	3/14/2025	Annual	3/14/2026	6262044715
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
Espec	ESX-2CA	Environmental Chamber	11/20/2024	Biennial	11/20/2026	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
ETS-Lindgren	3116C	DRG Horn Antenna	4/22/2025	Biennial	4/22/2027	218893
Keysight Technologies	N9020A	MXA Signal Analyzer (NM)	6/4/2025	Annual	6/4/2026	MY54500644
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
Keysight Technologies	N9030A	PXA Signal Analyzer (OM - EMC)	6/16/2025	Annual	6/16/2026	MY55410501
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	5/12/2025	Annual	5/12/2026	103200
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/25/2025	Annual	3/25/2026	101716
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	6/18/2025	Annual	6/18/2026	140148
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Sunol Sciences	DRH-118	Horn (Small)	2/13/2024	Biennial	2/13/2026	A042511

Table 5-1. Test Equipment Calibration Table

Notes:

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

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

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

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

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

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

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

Component	Serial Number
Keysight Directional Coupler, Model: 87300C	55300398
Mini Circuits 6dB Attenuator, BW S6 2W263+	2105
MegaPhase Cable, Model: TM26-S1S1-30	20233001 004

Table 5-5. LTx1 Licensed Transmitter Cable Set

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

Table 5-6. LTx6-40 Conducted Cable Set Components

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

Table 5-7. ETS-001 EMC Cable and Switch System Components

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

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

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

Table 5-9. AP1-002 EMC Cable and Switch System Components

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

Table 5-10. AP2-001 EMC Cable and Switch System Components

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

Table 5-11. AP2-002 EMC Cable and Switch System Components

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

Table 5-12. MD 1M 18-40 EMC Cable and Switch System Components

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6.0 SAMPLE EMISSION DESIGNATORS

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMA576B
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference	Data Referencing
CONDUCTED	Transmitter Conducted Output Power*	2.1046(a), 2.1046(c)	N/A	PASS	Section 7.2	Yes
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3	Yes
	Conducted Band Edge / Spurious Emissions (LTE Band 41; NR Band n41)	2.1051, 27.53(m)(4)	Undesirable emissions must meet the limits detailed in 27.53(m)(4)	PASS	Sections 7.4, 7.5	Yes
	Frequency Stability (LTE Band 41; NR Band n41)	2.1055, 27.54	Fundamental emissions stay within authorized frequency block	PASS	Section 7.8	Yes
RADIATED	Equivalent Isotropic Radiated Power (LTE Band 41; NR Band n41)	27.50(h)(2)	≤ 2 Watts max. EIRP	PASS	Section 7.6	Yes
	Radiated Spurious Emissions (LTE Band 41; NR Band n41)	2.1053, 27.53(m)	Undesirable emissions must meet the limits detailed in 27.53(m)	PASS	Section 7.7	Yes

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

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.3.0.
- 5) Data was referenced from model SM-A576U1 for the certification of SM-A576B/DS. See Section 9.0 for spotcheck results

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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.

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Measurement equipment was set up with triggering/gating on the spectrum analyzer such that powers were measured only during the on-time of the signal.

Test Procedure Used

ANSI C63.26:2015 – Section 5.2

Test Settings

1. Span = 2 x OBW to 3 x OBW
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

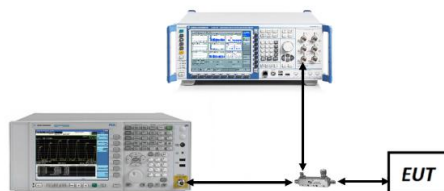


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

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

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	39750	2506.0	1 / 0	22.89
		40620	2593.0	1 / 99	23.13
		41490	2680.0	1 / 0	23.15
	16-QAM	40620	2593.0	1 / 99	22.16
15 MHz	QPSK	39725	2503.5	1 / 0	23.02
		40620	2593.0	1 / 74	23.19
		41515	2682.5	1 / 37	23.03
	16-QAM	40620	2593.0	1 / 74	22.10
10 MHz	QPSK	39700	2501.0	1 / 0	23.02
		40620	2593.0	1 / 49	23.09
		41540	2685.0	1 / 0	23.18
	16-QAM	40620	2593.0	1 / 49	22.25
5 MHz	QPSK	39675	2498.5	1 / 0	23.00
		40620	2593.0	1 / 24	23.09
		41565	2687.5	1 / 0	23.13
	16-QAM	40620	2593.0	1 / 24	22.14

Table 7-2. Conducted Power Results – LTE Band 41(PC3) – Ant2

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	509202	2546.01	1 / 1	23.82
		518598	2592.99	1 / 136	23.75
		528000	2640.00	1 / 136	23.75
	QPSK	509202	2546.01	1 / 1	23.97
		518598	2592.99	1 / 136	23.91
		528000	2640.00	1 / 136	23.70
	16-QAM	528000	2640.00	1 / 136	22.41
90 MHz	$\pi/2$ BPSK	508200	2541.00	1 / 122	23.84
		518598	2592.99	1 / 122	23.74
		528996	2644.98	1 / 122	23.76
	QPSK	508200	2541.00	1 / 1	23.91
		518598	2592.99	1 / 122	23.90
		528996	2644.98	1 / 122	23.89
	16-QAM	528996	2644.98	1 / 122	22.57
80 MHz	$\pi/2$ BPSK	507204	2536.02	1 / 1	23.82
		518598	2592.99	1 / 108	23.76
		529998	2649.99	1 / 108	23.79
	QPSK	507204	2536.02	1 / 1	23.93
		518598	2592.99	1 / 108	23.86
		529998	2649.99	1 / 108	23.90
	16-QAM	529998	2649.99	1 / 108	22.54
70 MHz	$\pi/2$ BPSK	506202	2531.01	1 / 1	23.80
		518598	2592.99	1 / 94	23.75
		531000	2655.00	1 / 94	23.92
	QPSK	506202	2531.01	1 / 1	23.92
		518598	2592.99	1 / 94	23.86
		531000	2655.00	1 / 94	23.90
	16-QAM	531000	2655.00	1 / 94	22.49
60 MHz	$\pi/2$ BPSK	505200	2526.00	1 / 1	23.76
		518598	2592.99	1 / 81	23.78
		531996	2659.98	1 / 81	23.87
	QPSK	505200	2526.00	1 / 1	23.93
		518598	2592.99	1 / 81	23.99
		531996	2659.98	1 / 81	23.81
	16-QAM	531996	2659.98	1 / 81	22.67
50 MHz	$\pi/2$ BPSK	504204	2521.02	1 / 66	23.91
		518598	2592.99	1 / 66	23.71
		532998	2664.99	1 / 66	23.92
	QPSK	504204	2521.02	1 / 1	23.98
		518598	2592.99	1 / 66	23.88
		532998	2664.99	1 / 66	23.90
	16-QAM	532998	2664.99	1 / 66	22.69

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	$\pi/2$ BPSK	503202	2516.01	1 / 53	23.70
		518598	2592.99	1 / 53	23.86
		534000	2670.00	1 / 53	23.94
	QPSK	503202	2516.01	1 / 53	23.72
		518598	2592.99	1 / 53	23.92
		534000	2670.00	1 / 53	23.88
	16-QAM	534000	2670.00	1 / 53	22.61
30 MHz	$\pi/2$ BPSK	502200	2511.00	1 / 39	23.74
		518598	2592.99	1 / 39	23.85
		534996	2674.98	1 / 39	23.86
	QPSK	502200	2511.00	1 / 76	23.78
		518598	2592.99	1 / 39	23.93
		534996	2674.98	1 / 39	23.97
	16-QAM	534996	2674.98	1 / 39	22.68
20 MHz	$\pi/2$ BPSK	501204	2506.02	1 / 49	23.69
		518598	2592.99	1 / 25	23.73
		535998	2679.99	1 / 1	23.73
	QPSK	501204	2506.02	1 / 49	23.74
		518598	2592.99	1 / 25	23.88
		535998	2679.99	1 / 1	23.89
	16-QAM	535998	2679.99	1 / 1	22.52
15 MHz	$\pi/2$ BPSK	500706	2503.50	1 / 19	23.65
		518598	2592.99	1 / 19	23.81
		536449	2682.50	1 / 1	23.68
	QPSK	500706	2503.50	1 / 19	23.68
		518598	2592.99	1 / 19	23.98
		536449	2682.50	1 / 1	23.83
	16-QAM	500706	2503.50	1 / 19	22.88
10 MHz	$\pi/2$ BPSK	500208	2501.00	1 / 22	23.79
		518598	2592.99	1 / 12	23.83
		537000	2685.00	1 / 1	23.53
	QPSK	500208	2501.00	1 / 22	23.84
		518598	2592.99	1 / 12	23.99
		537000	2685.00	1 / 1	23.69
	16-QAM	500208	2501.00	1 / 12	22.82

Table 7-3. Conducted Power Results – NR Band n41 PC3 – Ant1

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	π/2 BPSK	509202	2546.01	1 / 136	22.85
		518598	2592.99	1 / 136	23.16
		528000	2640.00	1 / 136	22.53
	QPSK	509202	2546.01	1 / 136	22.49
		518598	2592.99	1 / 136	22.96
		528000	2640.00	1 / 136	22.24
	16-QAM	509202	2546.01	1 / 136	22.99
		518598	2592.99	1 / 136	23.31
		528000	2640.00	1 / 136	22.57

Table 7-4. Conducted Power Results – NR Band n41 PC3 – Ant2

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	π/2 BPSK	509202	2546.01	1 / 136	23.18
		518598	2592.99	1 / 136	23.58
		528000	2640.00	1 / 136	23.20
	QPSK	509202	2546.01	1 / 136	22.80
		518598	2592.99	1 / 136	23.25
		528000	2640.00	1 / 136	22.79
	16-QAM	509202	2546.01	1 / 136	23.23
		518598	2592.99	1 / 136	23.60
		528000	2640.00	1 / 136	23.26

Table 7-5. Conducted Power Results – NR Band n41 PC3 – Ant3

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	π/2 BPSK	509202	2546.01	1 / 136	22.15
		518598	2592.99	1 / 136	22.63
		528000	2640.00	1 / 136	22.22
	QPSK	509202	2546.01	1 / 136	21.76
		518598	2592.99	1 / 136	22.31
		528000	2640.00	1 / 136	21.87
	16-QAM	509202	2546.01	1 / 136	22.24
		518598	2592.99	1 / 136	22.66
		528000	2640.00	1 / 136	22.24

Table 7-6. Conducted Power Results – NR Band n41 PC3 – Ant4

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7.3 Occupied Bandwidth

Test Overview

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

Test Procedure Used

ANSI C63.26:2015 – Section 5.4.4

Test Settings

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

Test Setup

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

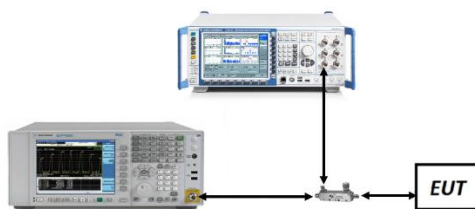


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

Only the highest target power SRS-1 antenna for n41 default (Antenna B) are reported for the overall n41 SRS worst case.

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Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B41 PC3	20MHz	QPSK	17.98
		16QAM	18.03
	15MHz	QPSK	13.56
		16QAM	13.52
	10MHz	QPSK	9.04
		16QAM	9.02
	5MHz	QPSK	4.52
		16QAM	4.53

Table 7-7. Occupied Bandwidth Test Results – LTE – Ant 1

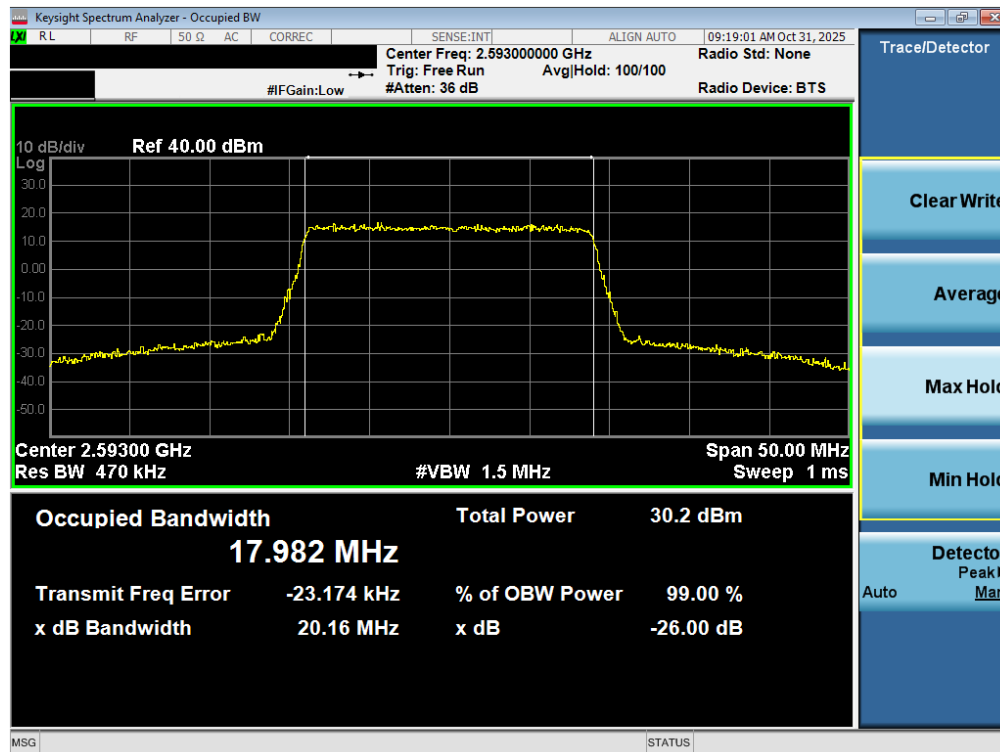
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC3	100MHz	$\pi/2$ BPSK	97.03
		QPSK	97.97
		16QAM	97.76
	90MHz	$\pi/2$ BPSK	87.35
		QPSK	88.06
		16QAM	87.84
	80MHz	$\pi/2$ BPSK	77.71
		QPSK	77.82
		16QAM	77.83
	70MHz	$\pi/2$ BPSK	64.69
		QPSK	64.55
		16QAM	67.67
	60MHz	$\pi/2$ BPSK	58.38
		QPSK	58.20
		16QAM	58.25
	50MHz	$\pi/2$ BPSK	46.10
		QPSK	47.88
		16QAM	47.79
	40MHz	$\pi/2$ BPSK	37.80
		QPSK	38.15
		16QAM	38.10
	30MHz	$\pi/2$ BPSK	27.86
		QPSK	27.01
		16QAM	28.12
	20MHz	$\pi/2$ BPSK	18.31
		QPSK	18.40
		16QAM	18.42
	15MHz	$\pi/2$ BPSK	13.04
		QPSK	13.72
		16QAM	13.71
	10MHz	$\pi/2$ BPSK	8.74
		QPSK	8.74
		16QAM	8.70

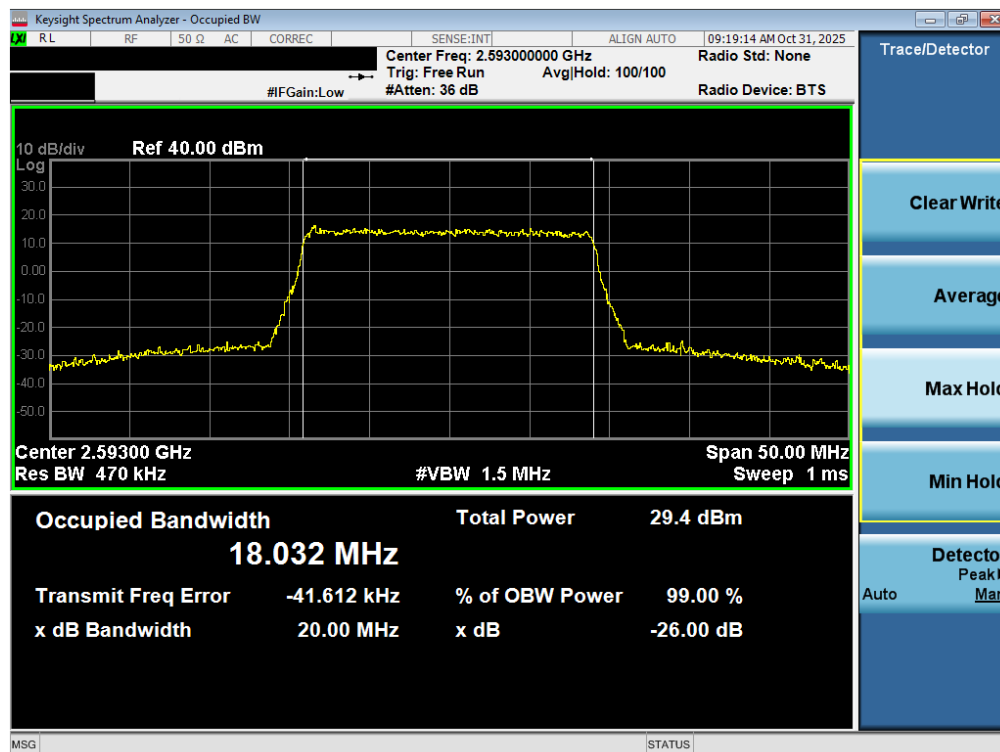
Table 7-8. Occupied Bandwidth Test Results – NR – Ant 1

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC3)– Ant1

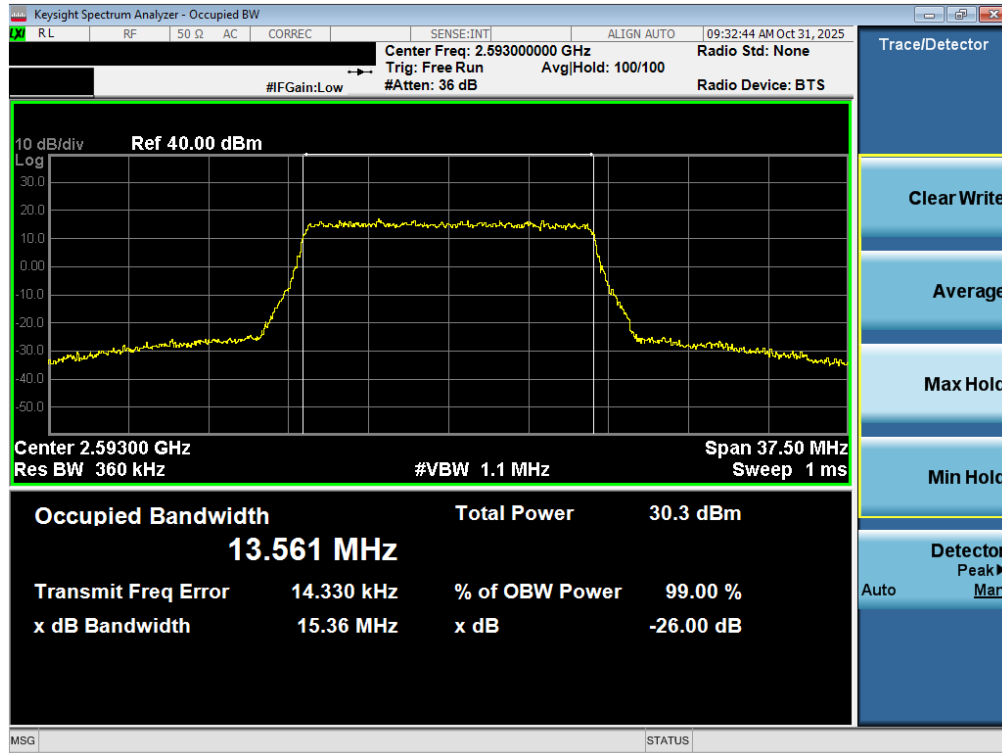


Plot 7-1. Occupied Bandwidth Plot (LTE Band 41(PC3)- 20MHz QPSK - Full RB - Ant1)

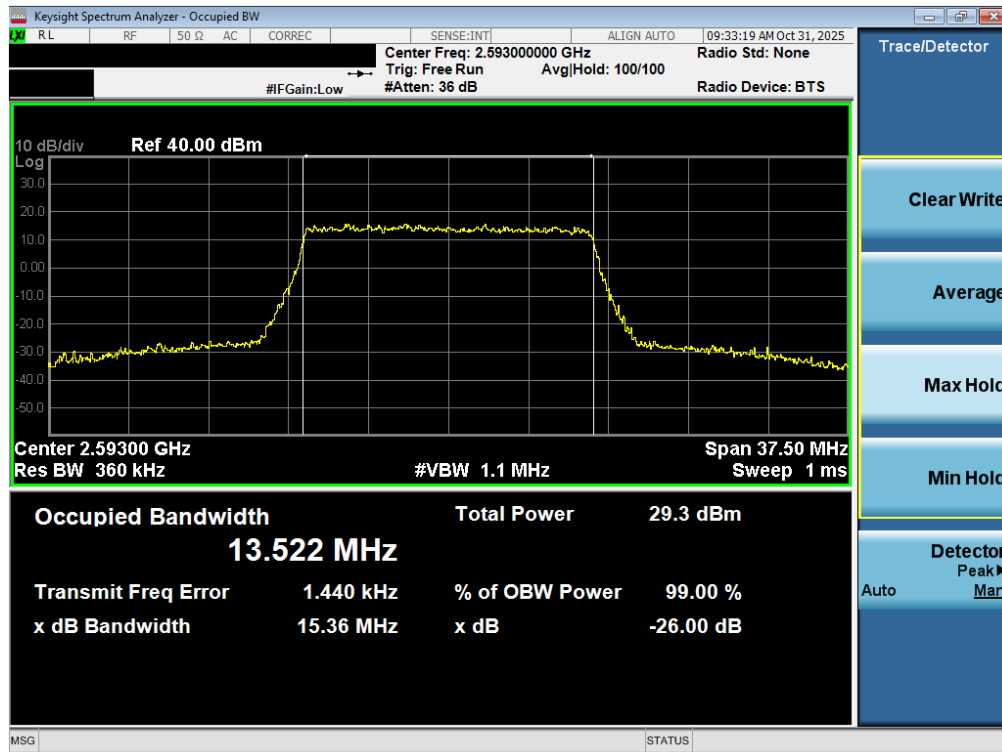


Plot 7-2. Occupied Bandwidth Plot (LTE Band 41(PC3)- 20MHz 16-QAM - Full RB - Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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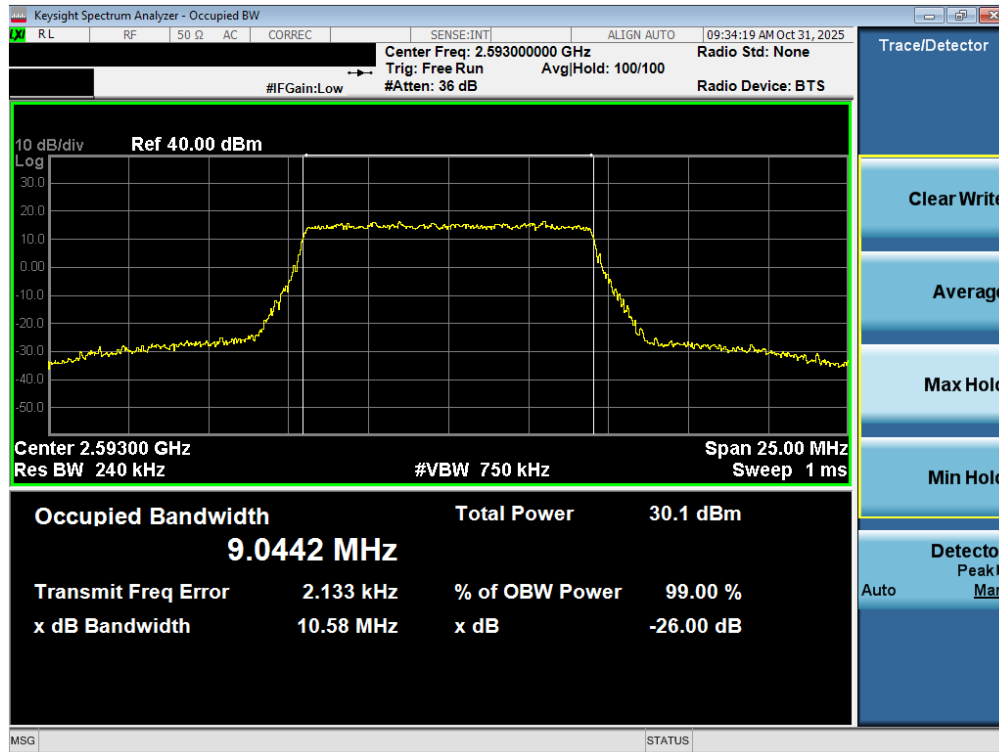


Plot 7-3. Occupied Bandwidth Plot (LTE Band 41(PC3)- 15MHz QPSK - Full RB - Ant1)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 41(PC3)- 15MHz 16-QAM - Full RB - Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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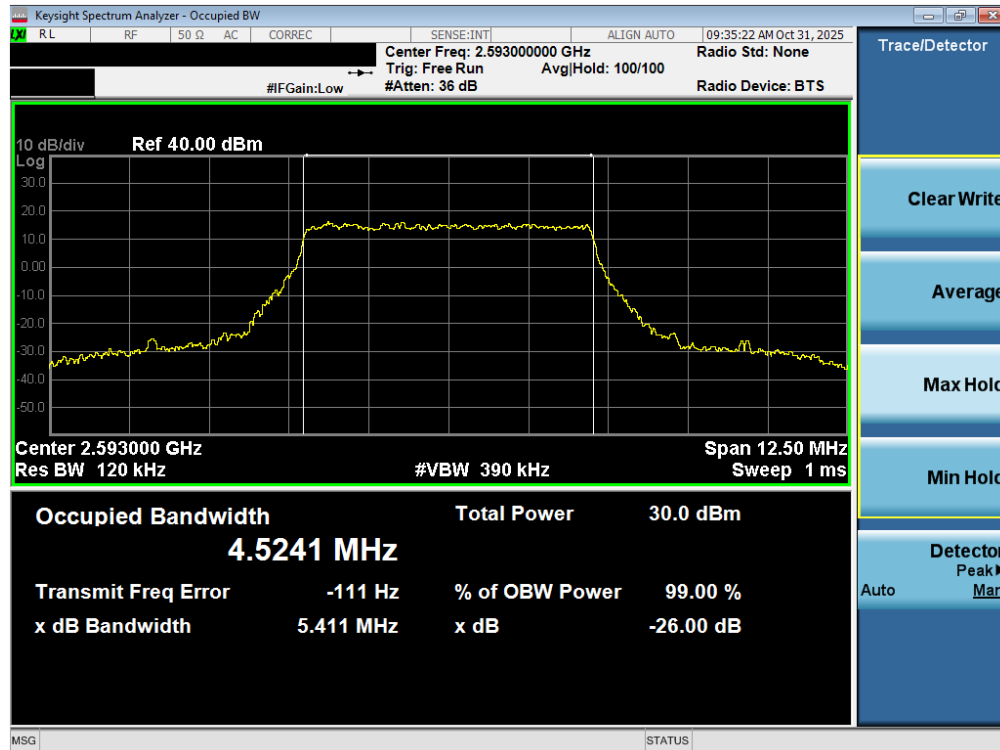


Plot 7-5. Occupied Bandwidth Plot (LTE Band 41(PC3)- 10MHz QPSK - Full RB - Ant1)

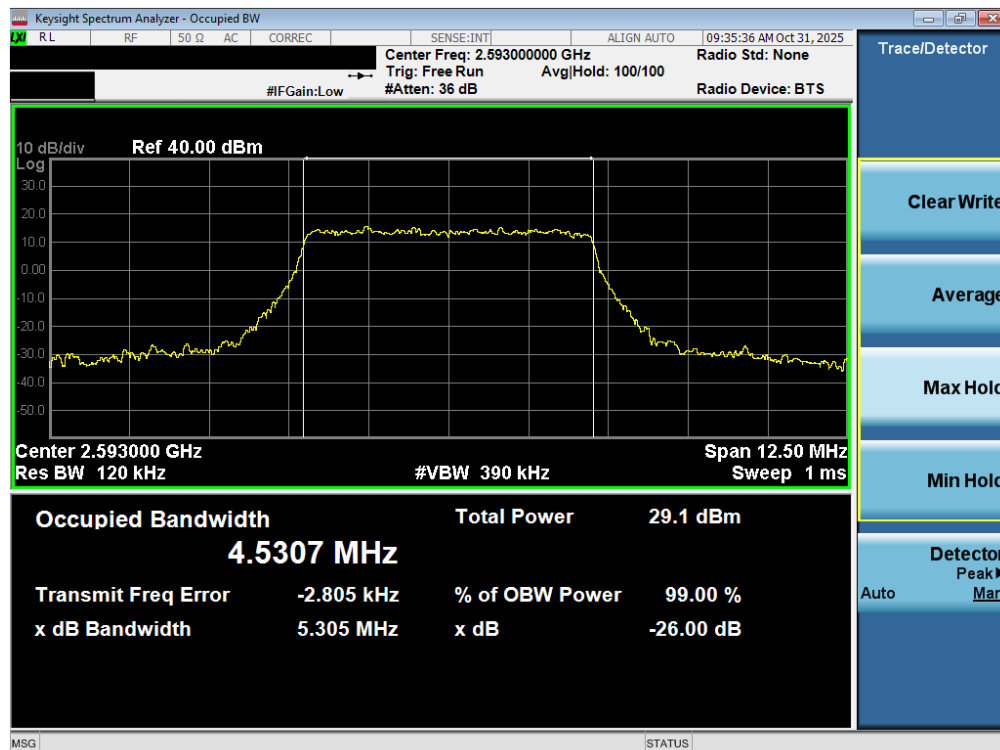


Plot 7-6. Occupied Bandwidth Plot (LTE Band 41(PC3)- 10MHz 16-QAM - Full RB - Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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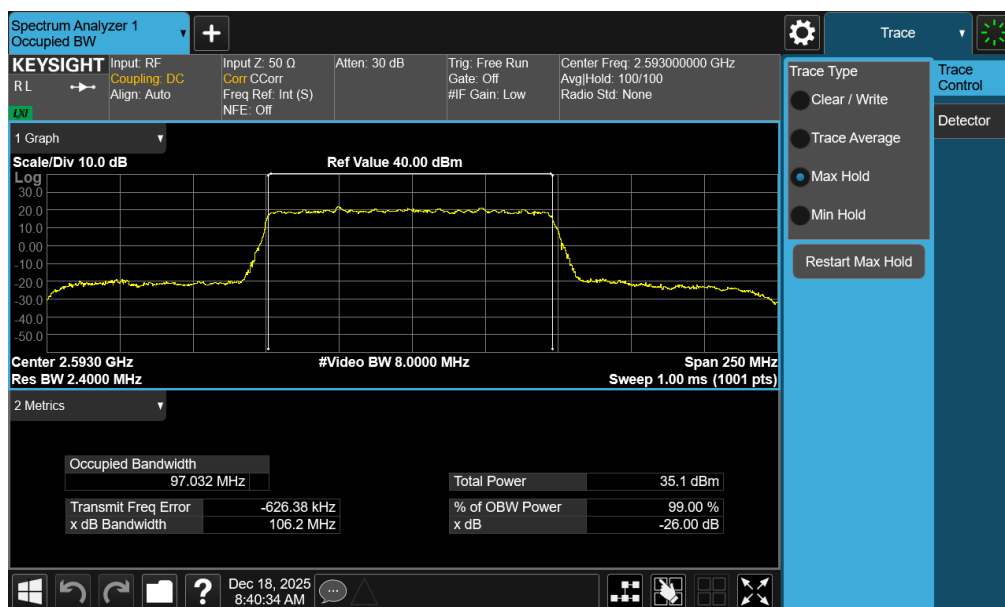
Plot 7-7. Occupied Bandwidth Plot (LTE Band 41(PC3)- 5MHz QPSK - Full RB - Ant1)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 41(PC3)- 5MHz 16-QAM - Full RB - Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 28 of 92

NR Band n41 PC3 – Ant1

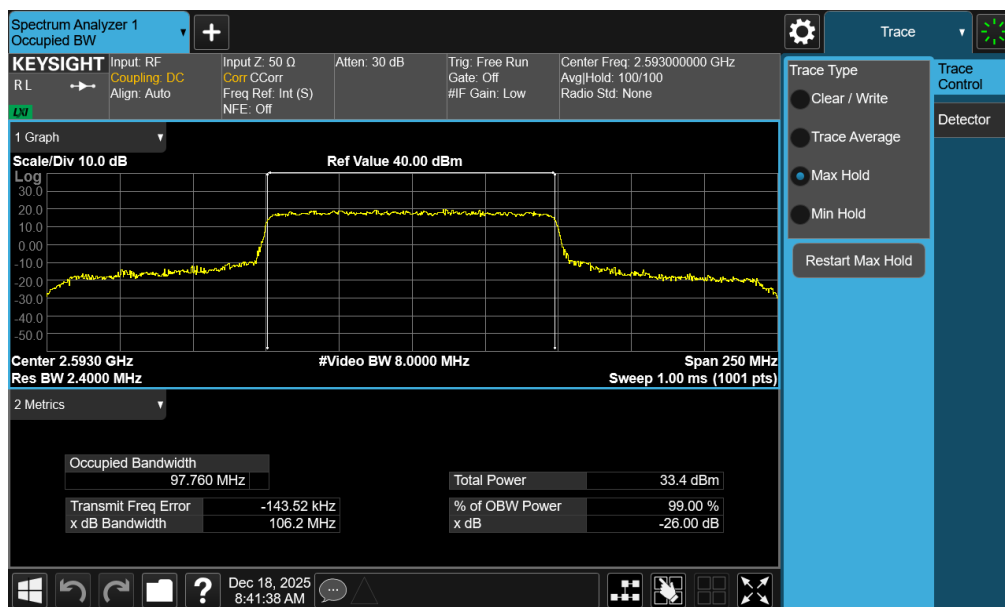


Plot 7-9. Occupied Bandwidth Plot (NR Band n41 PC3 – 100MHz $\pi/2$ BPSK – Full RB – Ant1)

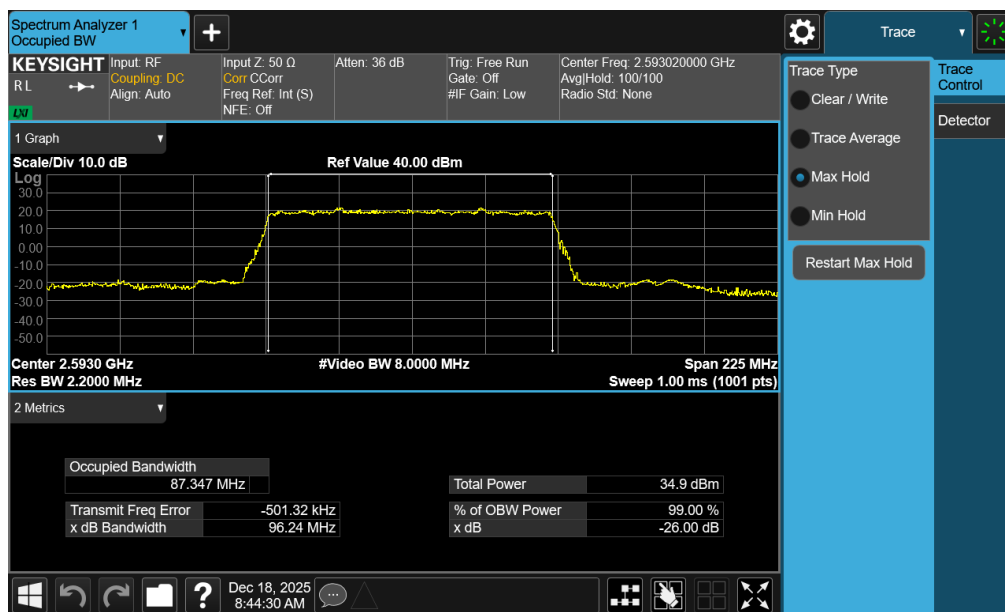


Plot 7-10. Occupied Bandwidth Plot (NR Band n41 PC3 – 100MHz QPSK – Full RB – Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 29 of 92

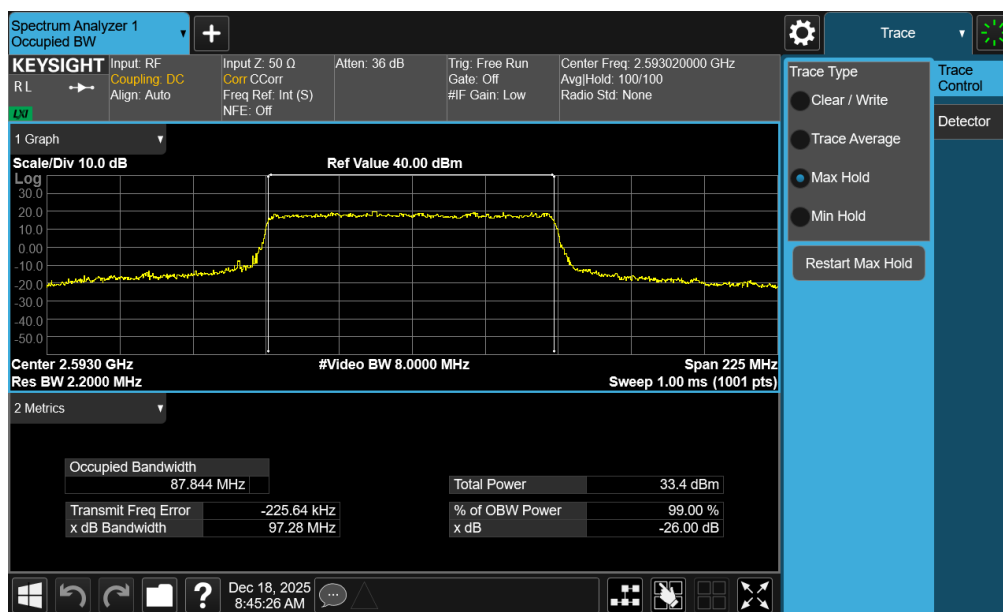
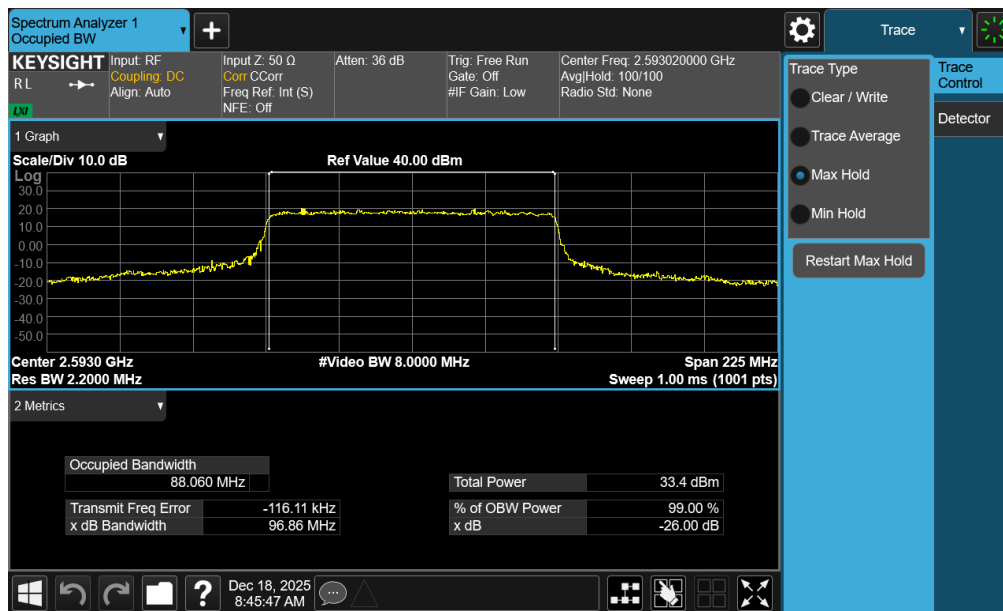


Plot 7-11. Occupied Bandwidth Plot (NR Band n41 PC3 – 100MHz 16-QAM – Full RB – Ant1)

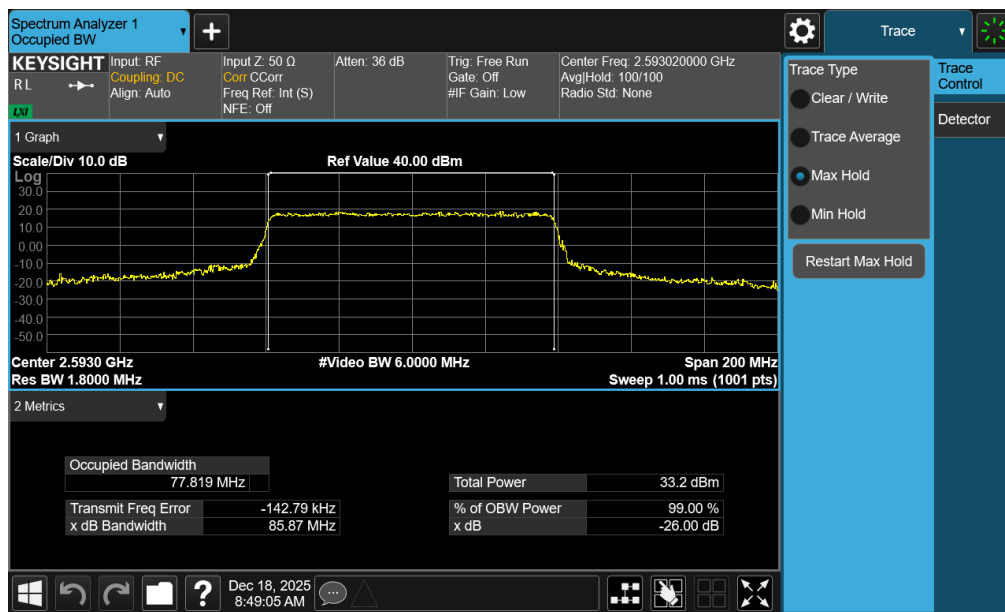
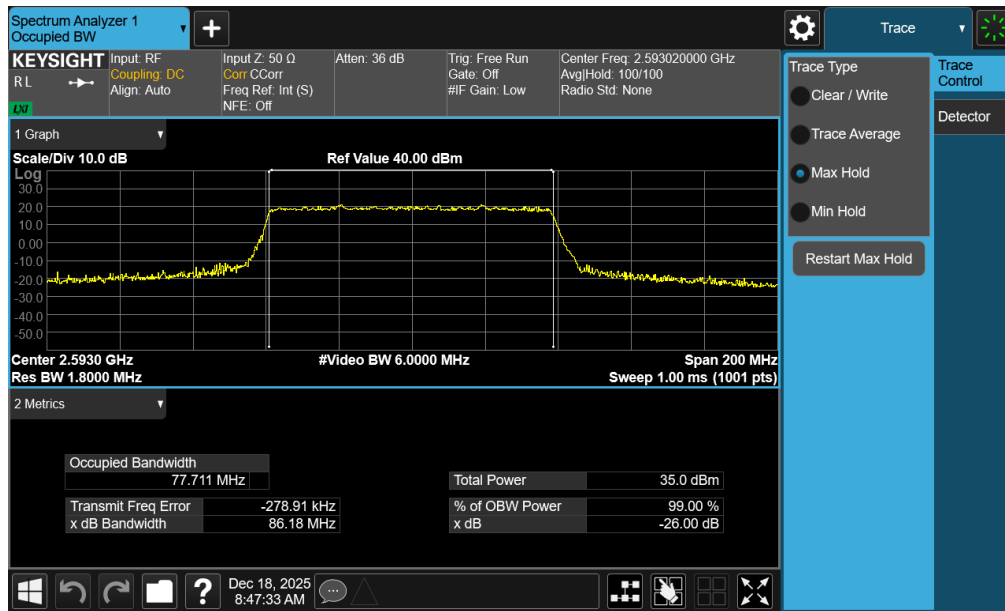


Plot 7-12. Occupied Bandwidth Plot (NR Band n41 PC3 – 90MHz $\pi/2$ BPSK – Full RB – Ant1)

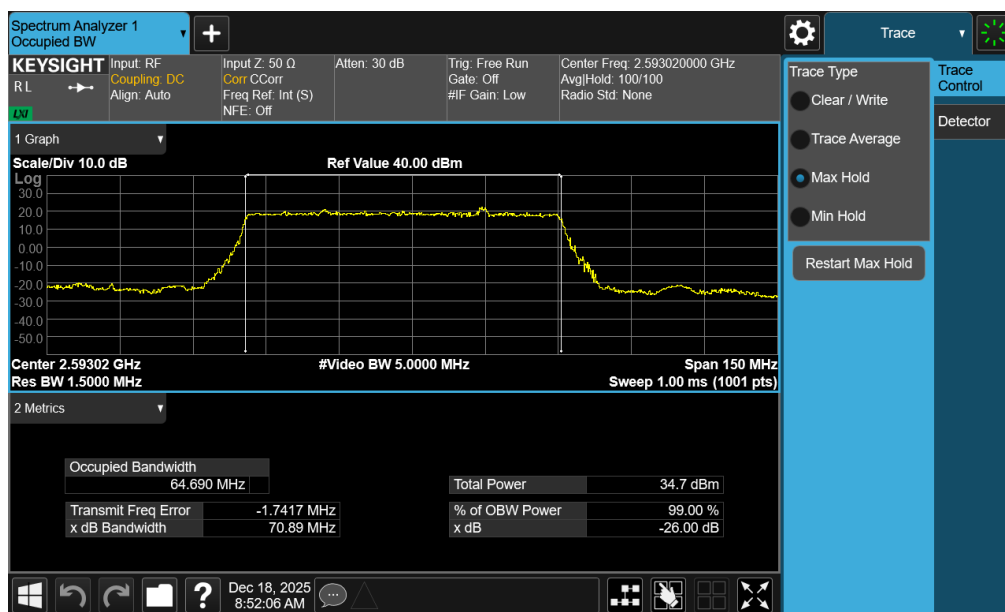
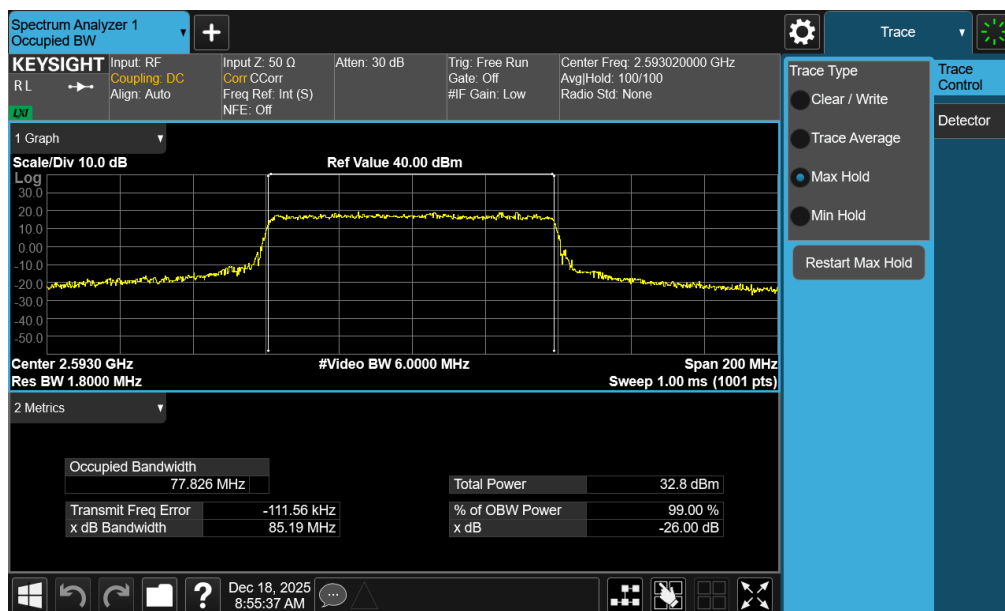
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 30 of 92



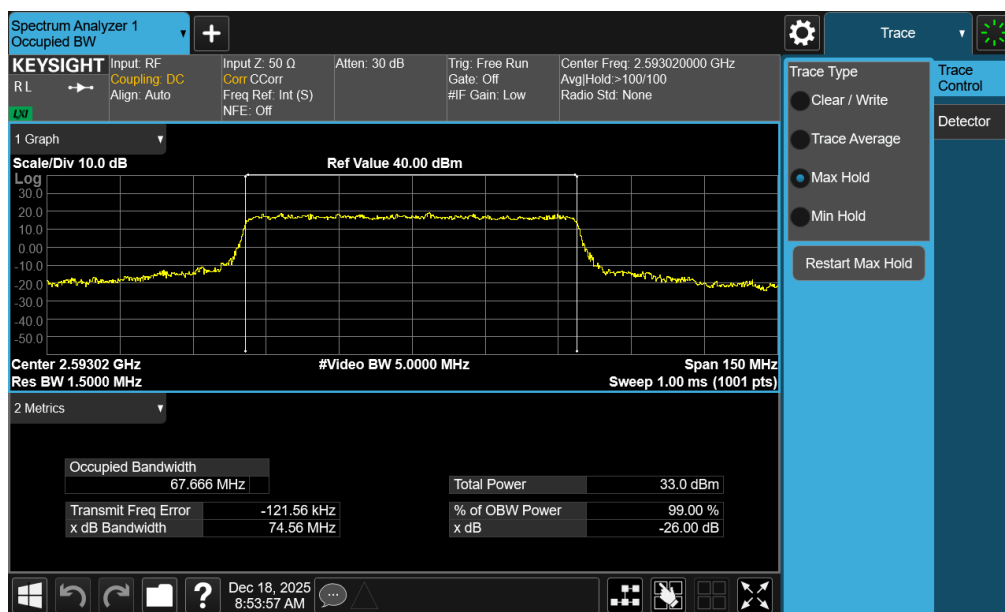
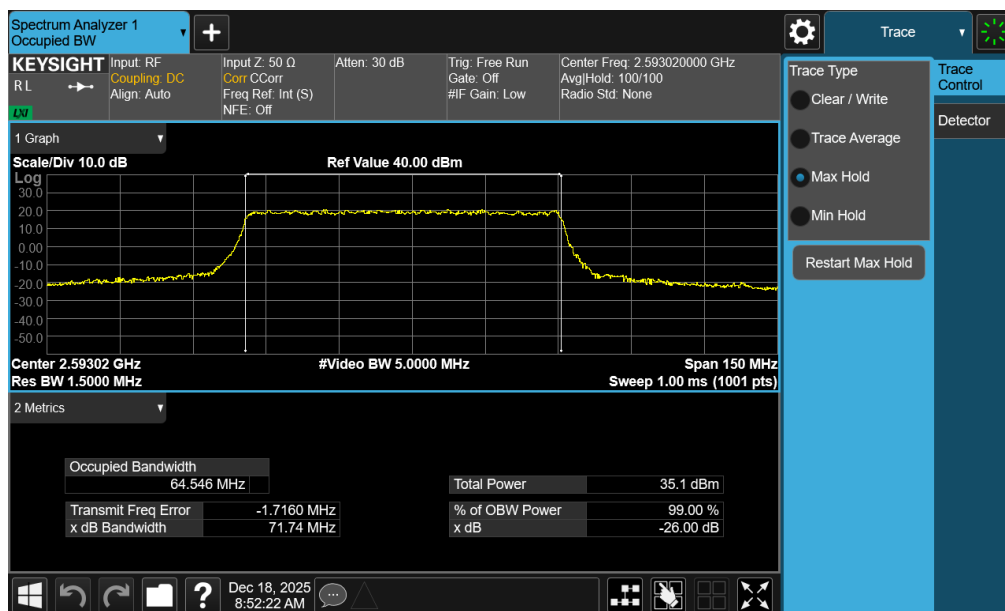
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 31 of 92



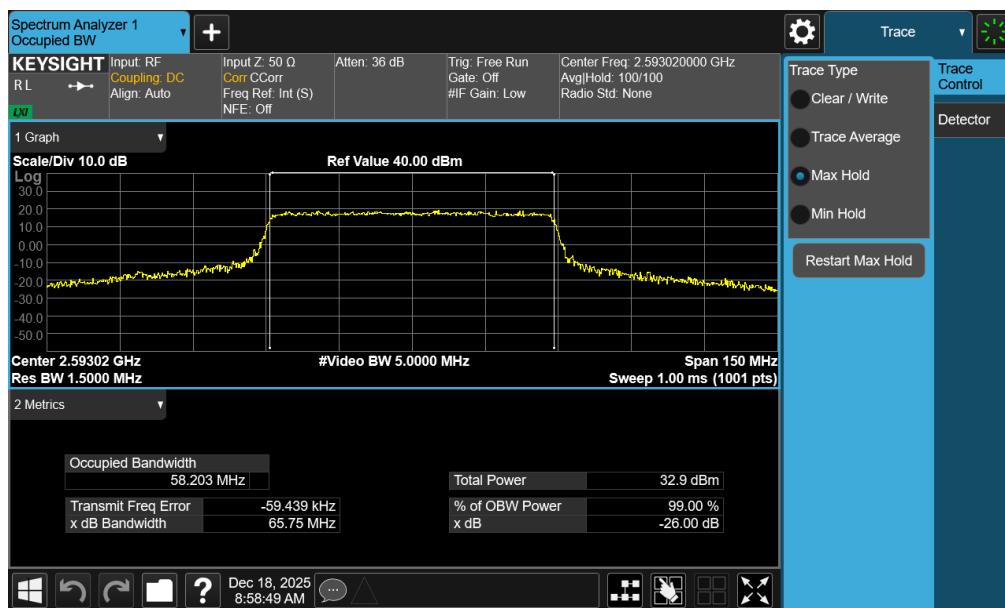
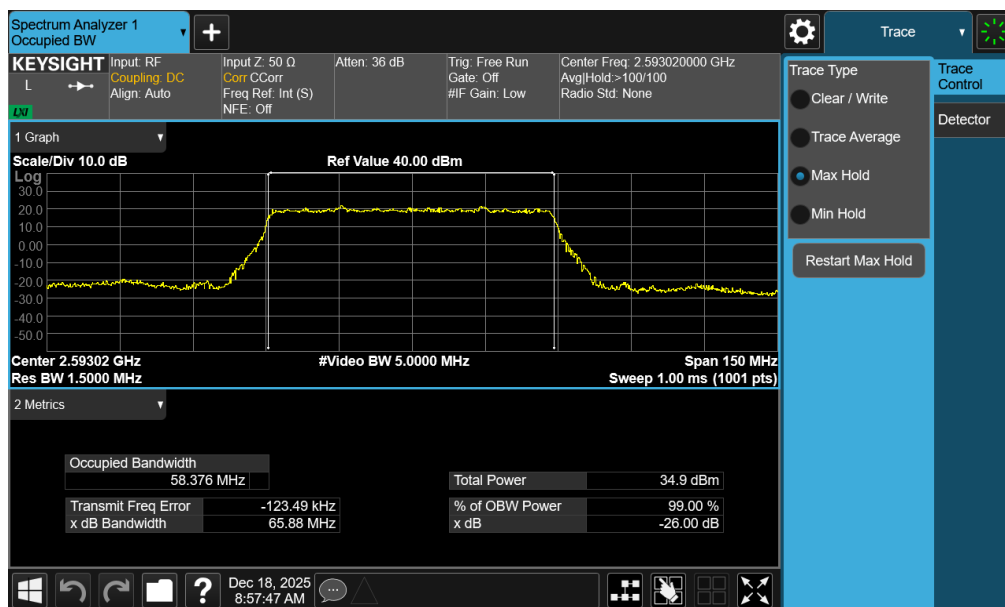
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 32 of 92



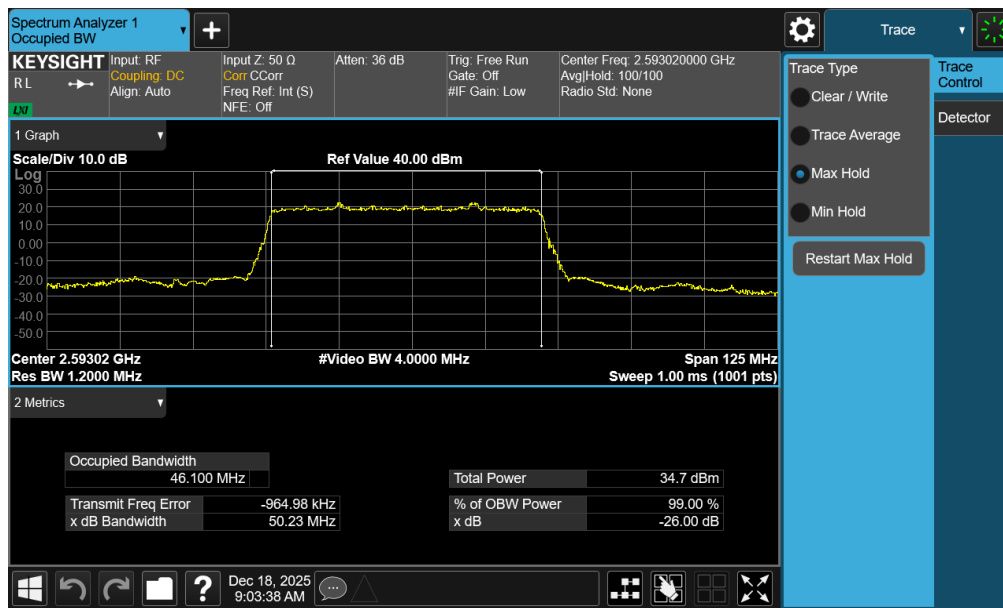
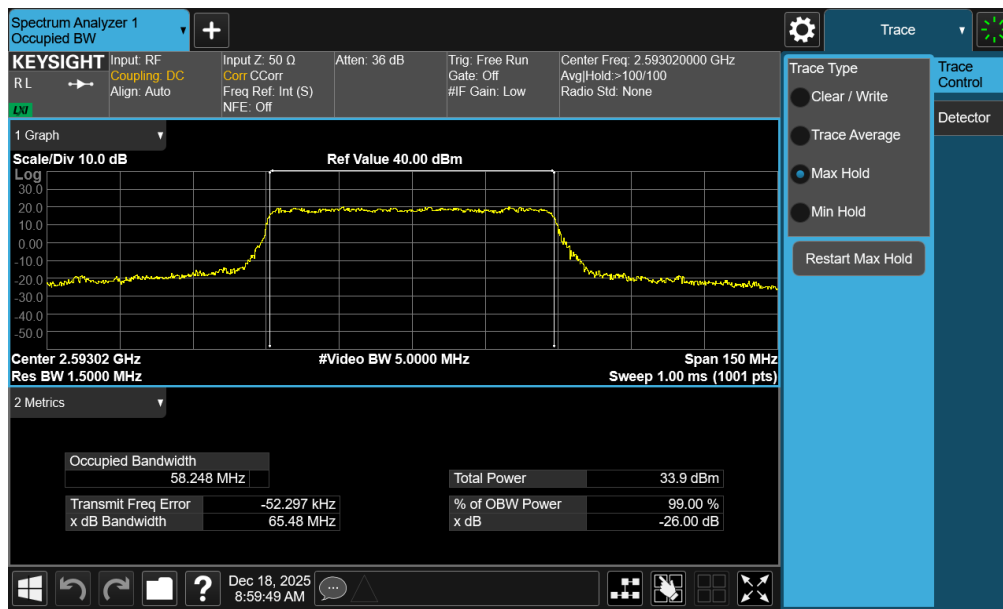
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 33 of 92



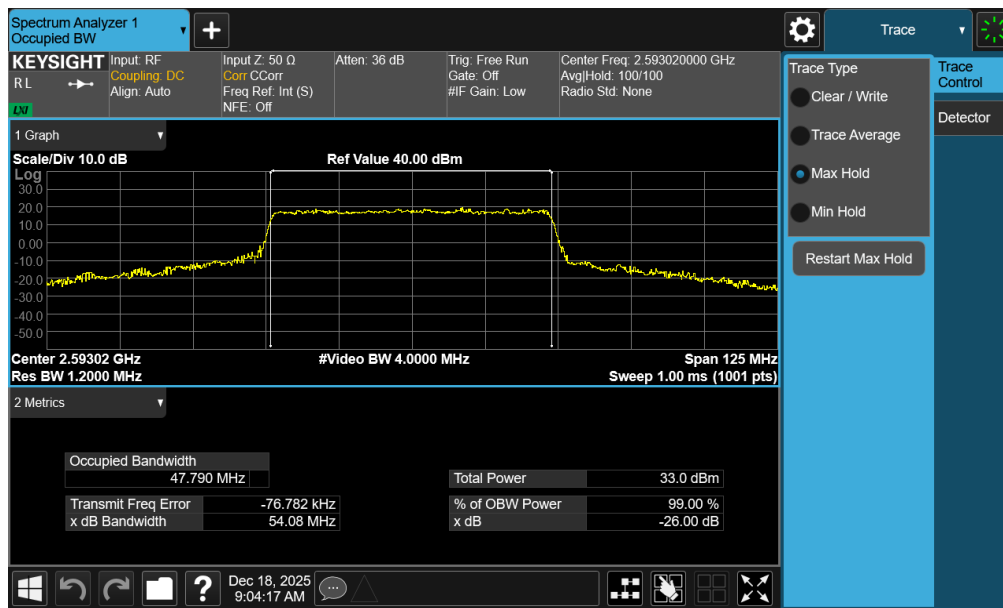
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 34 of 92



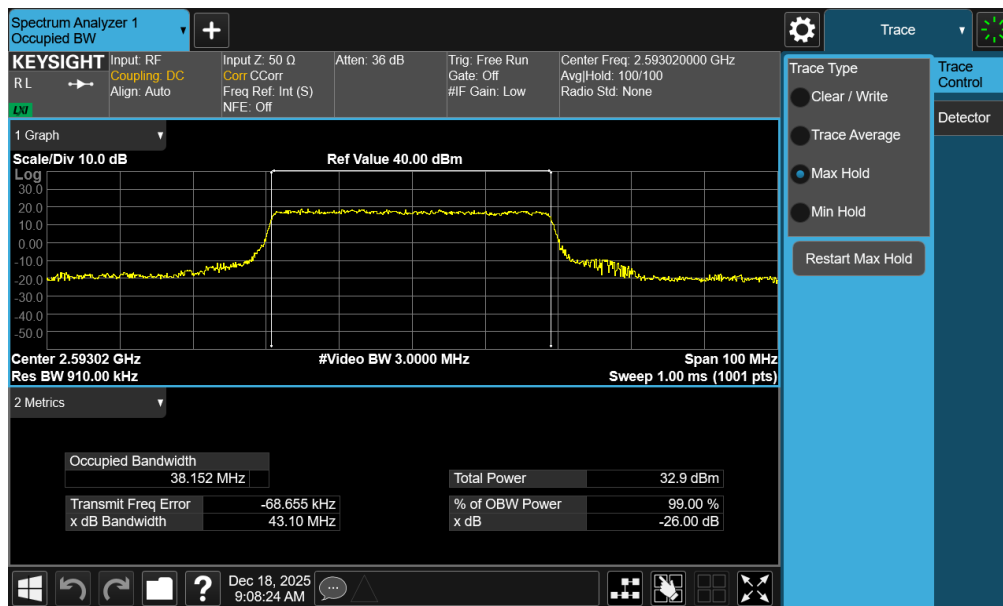
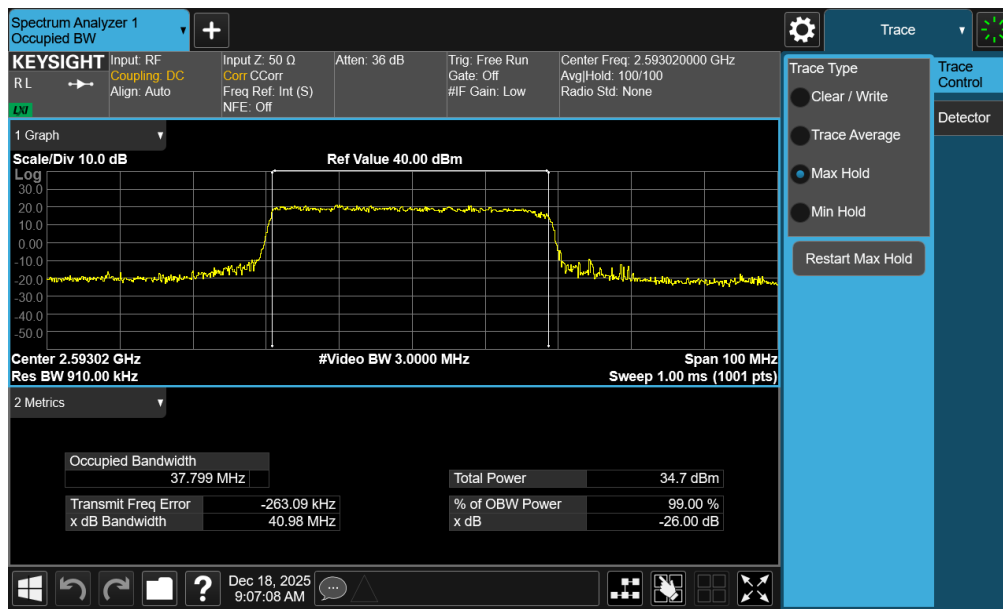
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 35 of 92



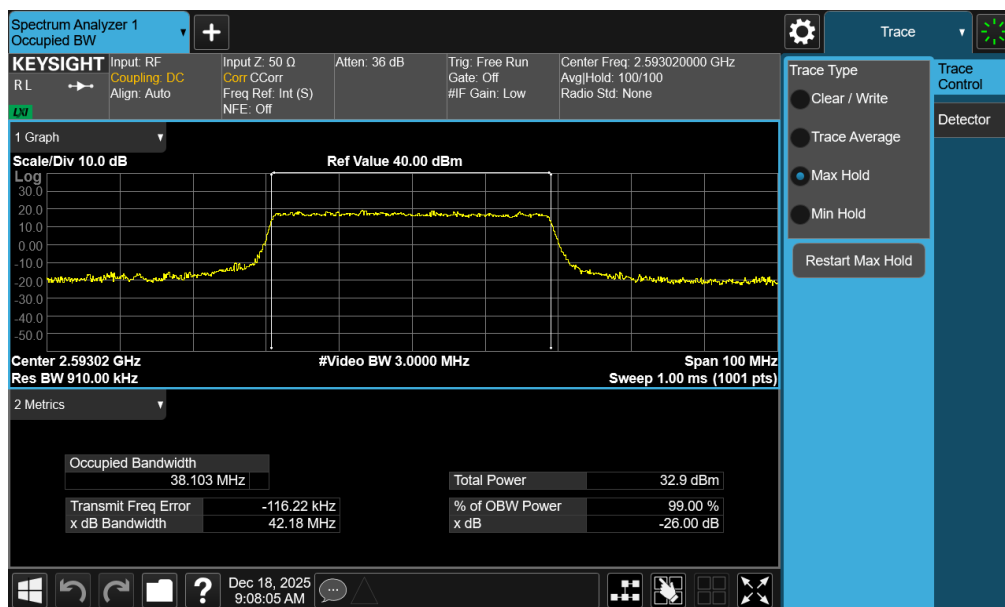
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 36 of 92



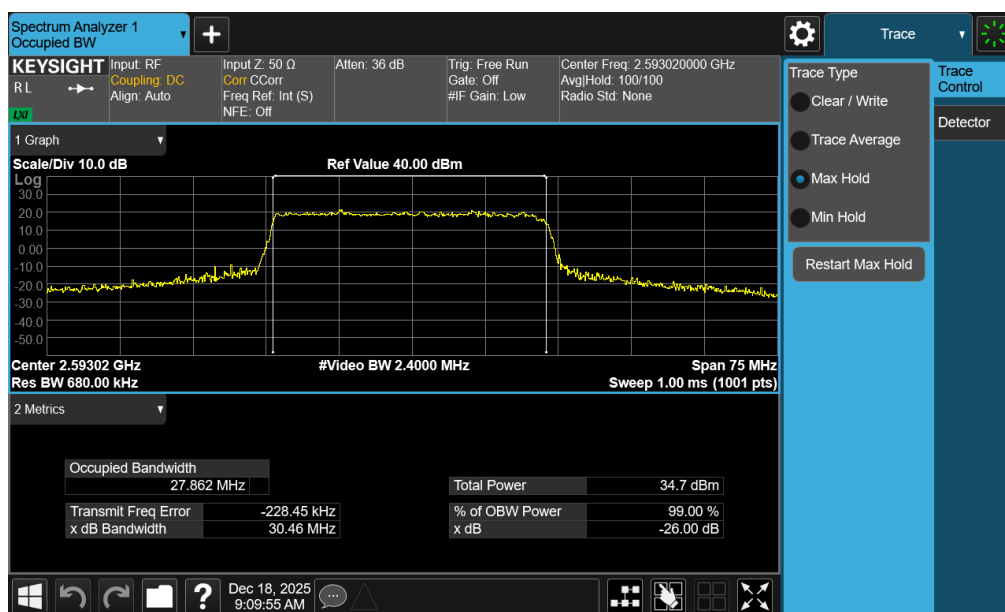
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 37 of 92



FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-29. Occupied Bandwidth Plot (NR Band n41 PC3 – 40MHz 16-QAM – Full RB – Ant1)



Plot 7-30. Occupied Bandwidth Plot (NR Band n41 PC3 – 30MHz $\pi/2$ BPSK – Full RB – Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 39 of 92

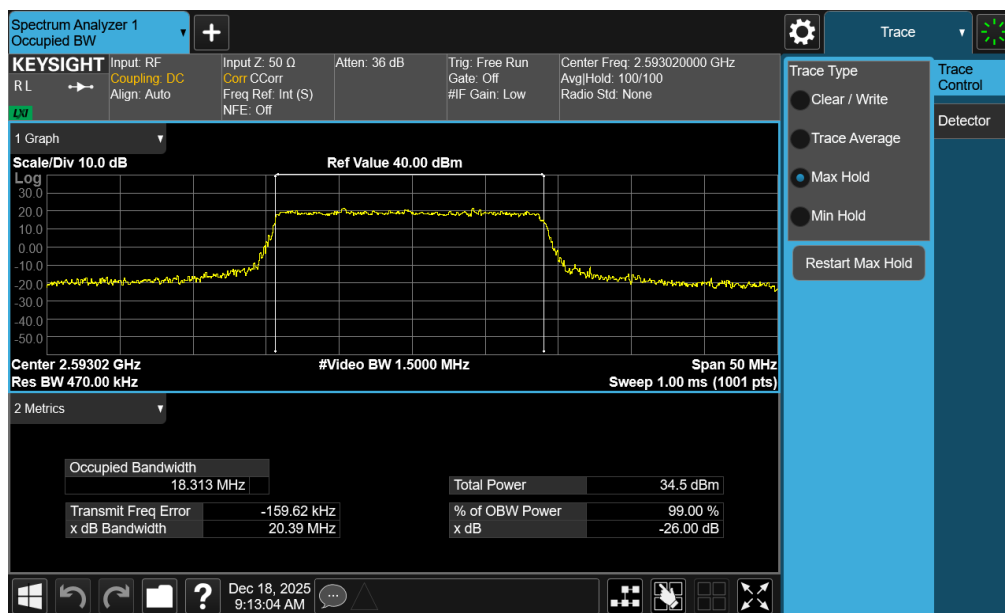


Plot 7-31. Occupied Bandwidth Plot (NR Band n41 PC3 – 30MHz QPSK – Full RB – Ant1)

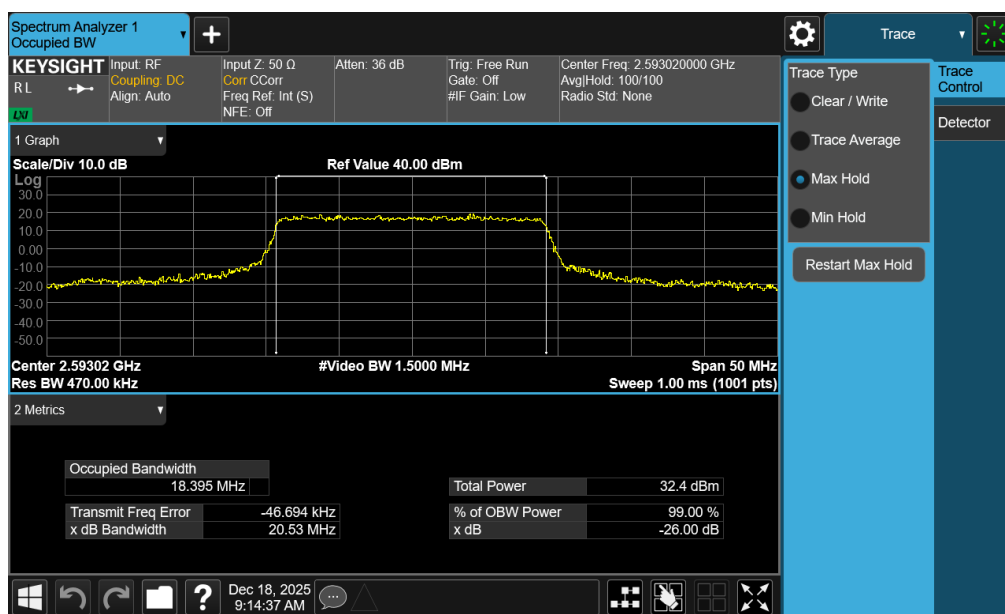


Plot 7-32. Occupied Bandwidth Plot (NR Band n41 PC3 – 30MHz 16-QAM – Full RB – Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 40 of 92

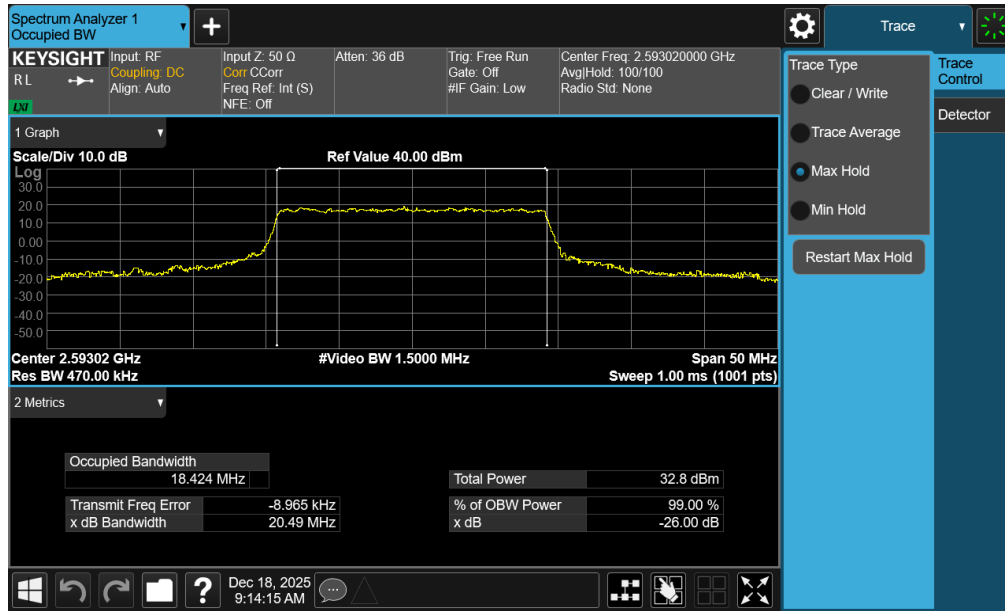


Plot 7-33. Occupied Bandwidth Plot (NR Band n41 PC3 – 20MHz $\pi/2$ BPSK – Full RB – Ant1)



Plot 7-34. Occupied Bandwidth Plot (NR Band n41 PC3 – 20MHz QPSK – Full RB – Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 41 of 92

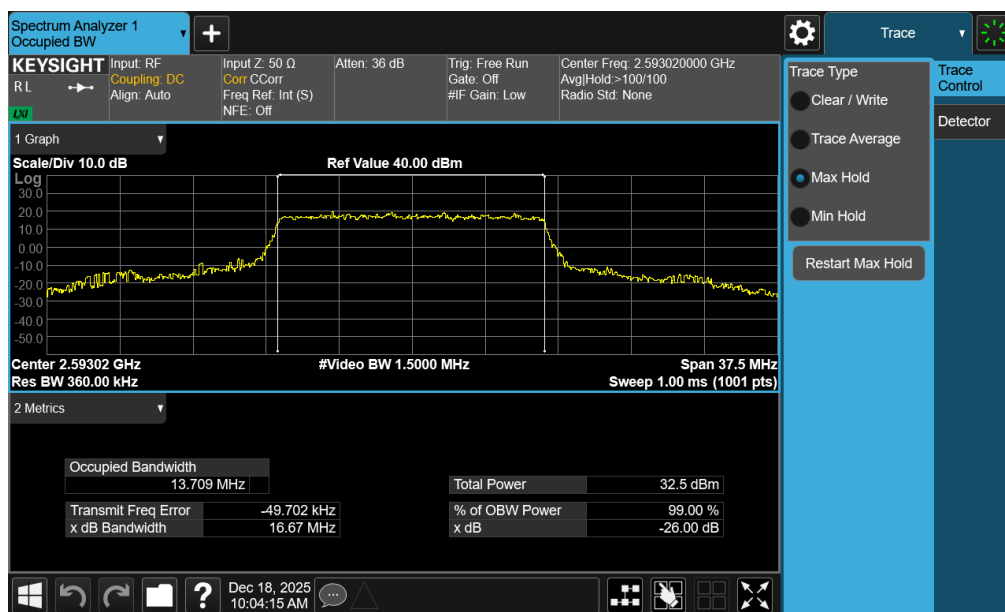
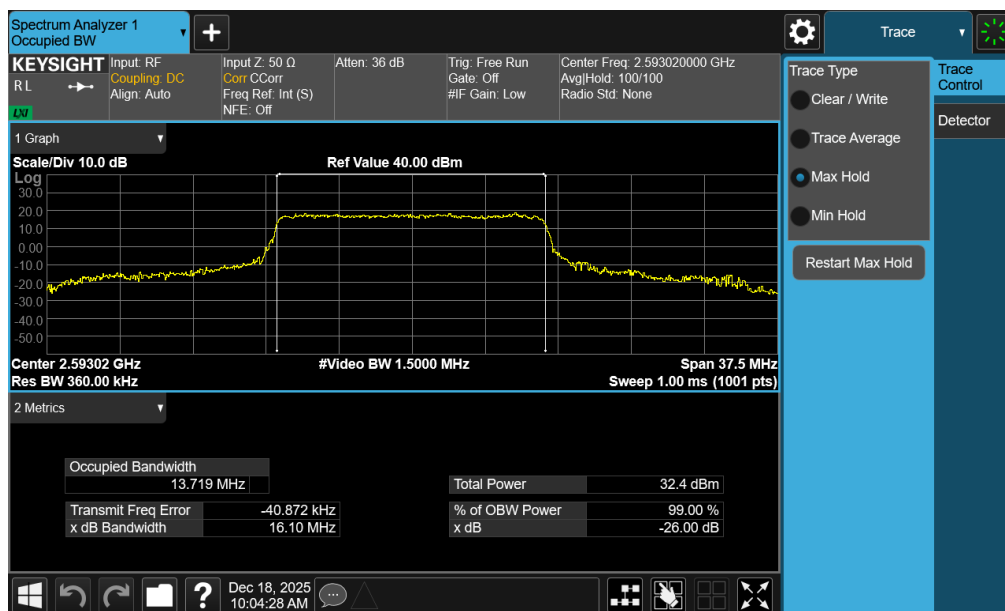


Plot 7-35. Occupied Bandwidth Plot (NR Band n41 PC3 – 20MHz 16-QAM – Full RB – Ant1)



Plot 7-36. Occupied Bandwidth Plot (NR Band n41 PC3 – 15MHz $\pi/2$ BPSK – Full RB – Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 42 of 92



FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 43 of 92



FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 44 of 92

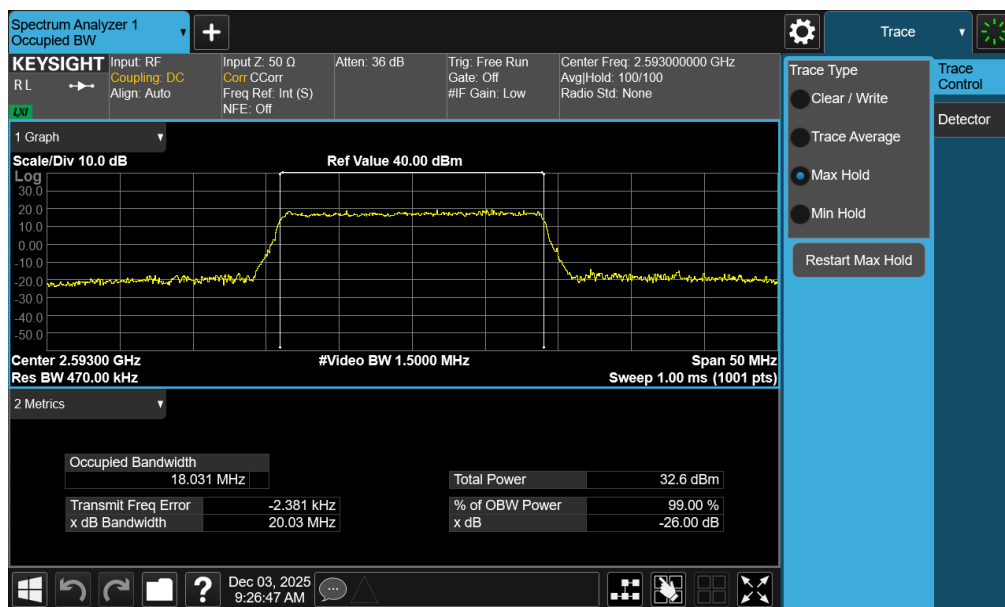
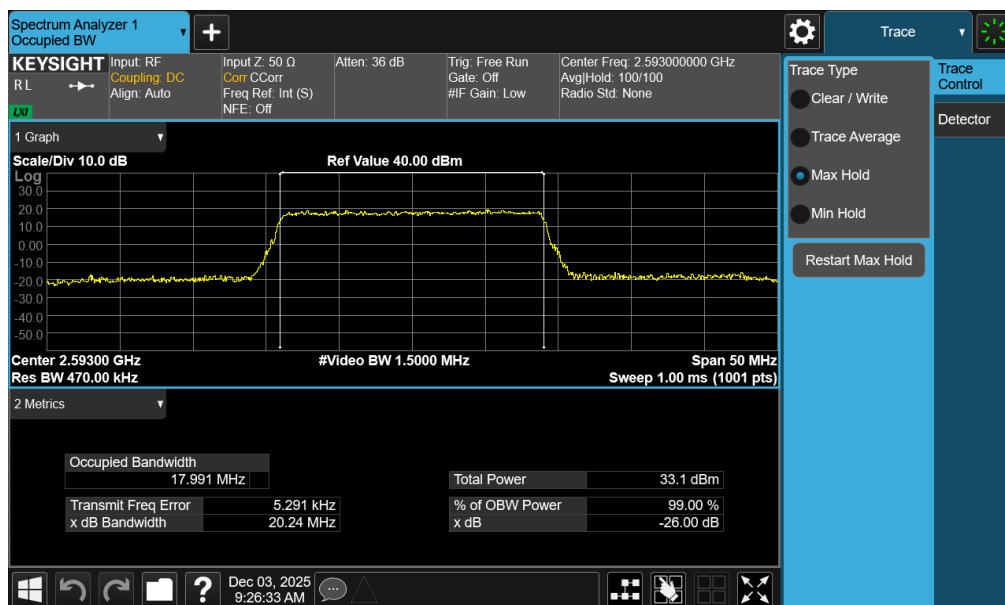
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 45 of 92

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B41 PC3	20MHz	QPSK	17.99
		16QAM	18.03
	15MHz	QPSK	13.54
		16QAM	13.54
	10MHz	QPSK	9.06
		16QAM	9.05
	5MHz	QPSK	4.54
		16QAM	4.53

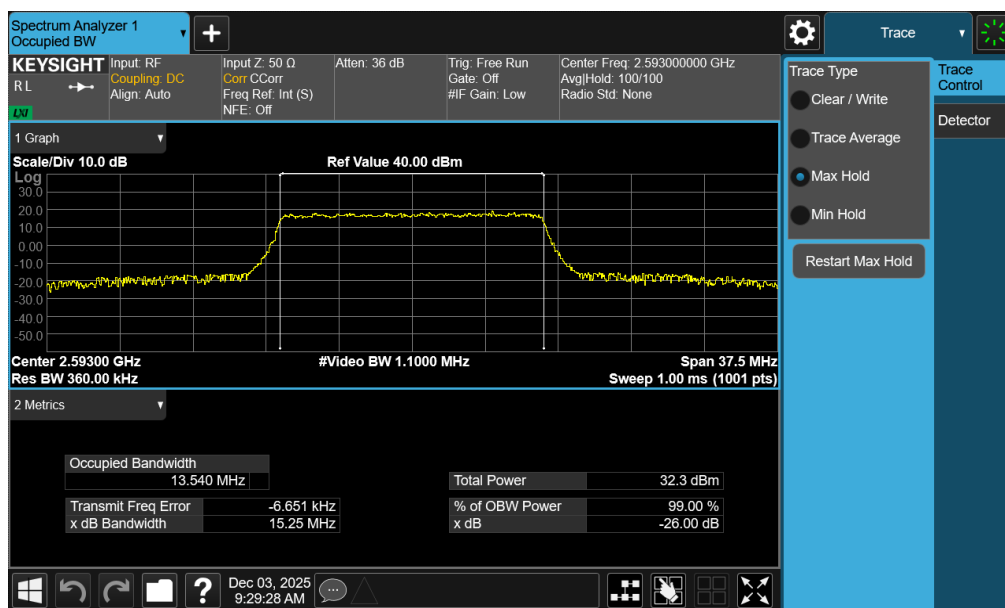
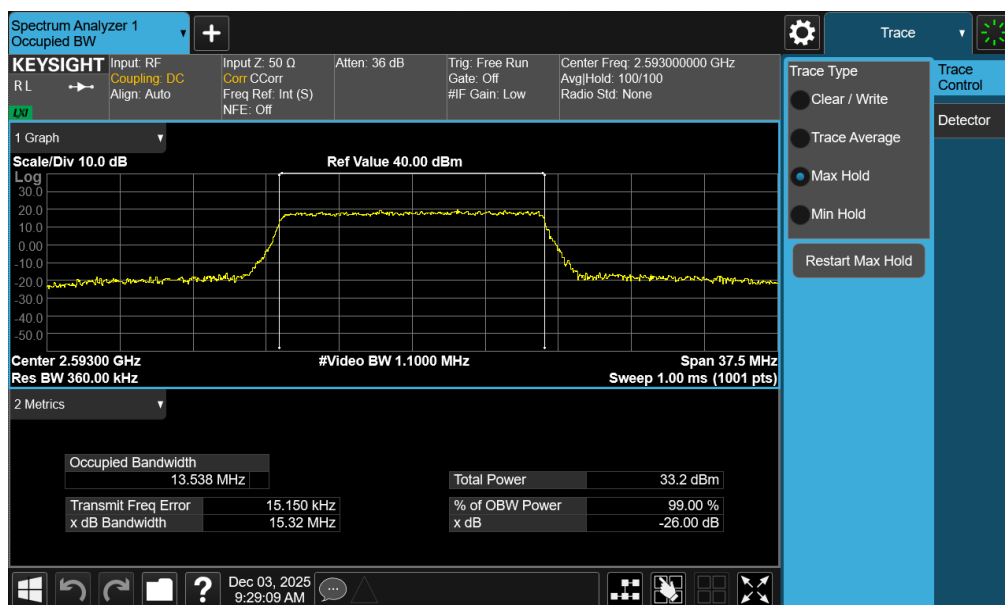
Table 7-9. Occupied Bandwidth Test Results – LTE – Ant 2

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 46 of 92

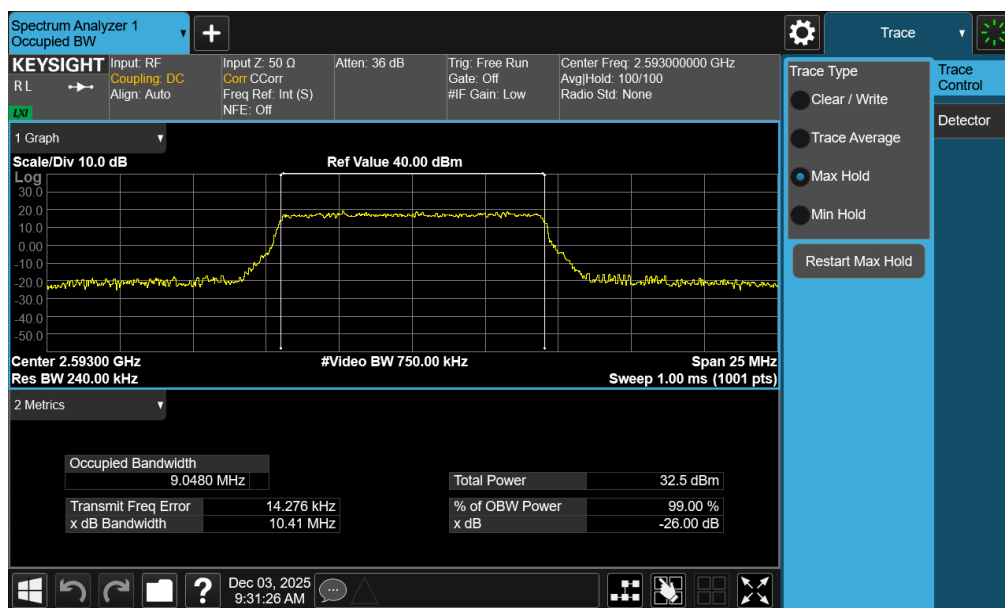
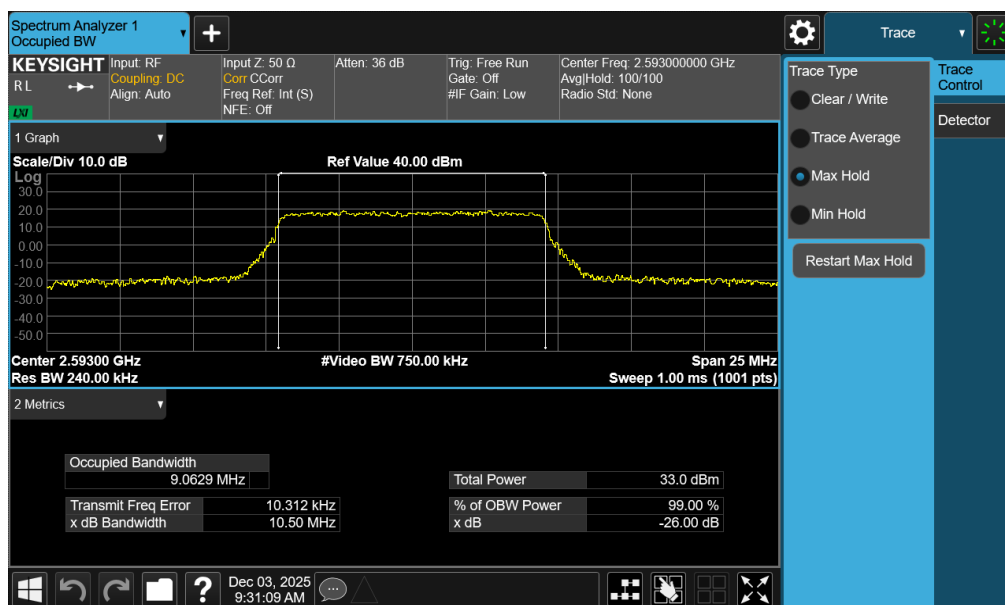
LTE Band 41(PC3) – Ant2



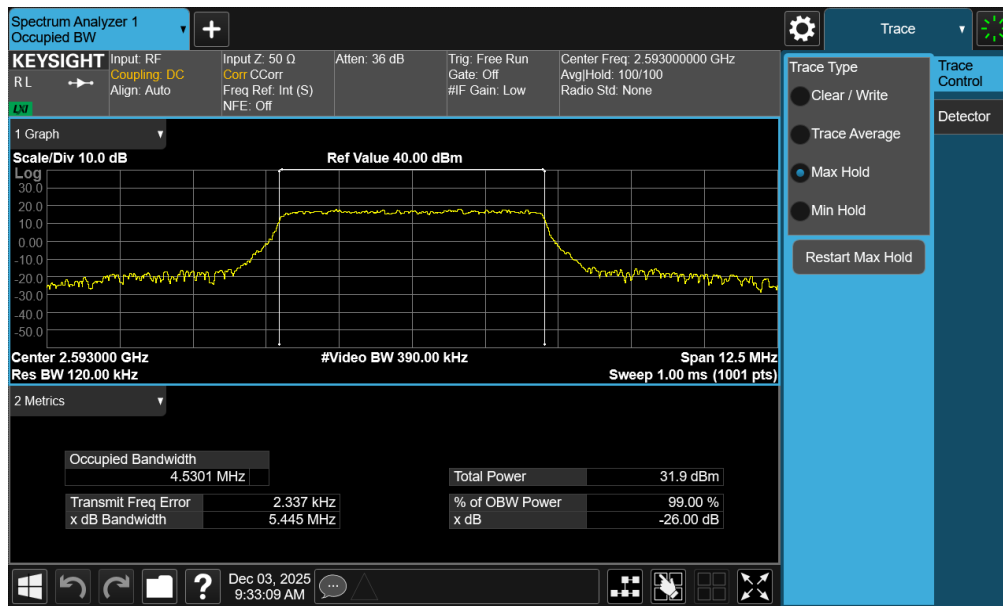
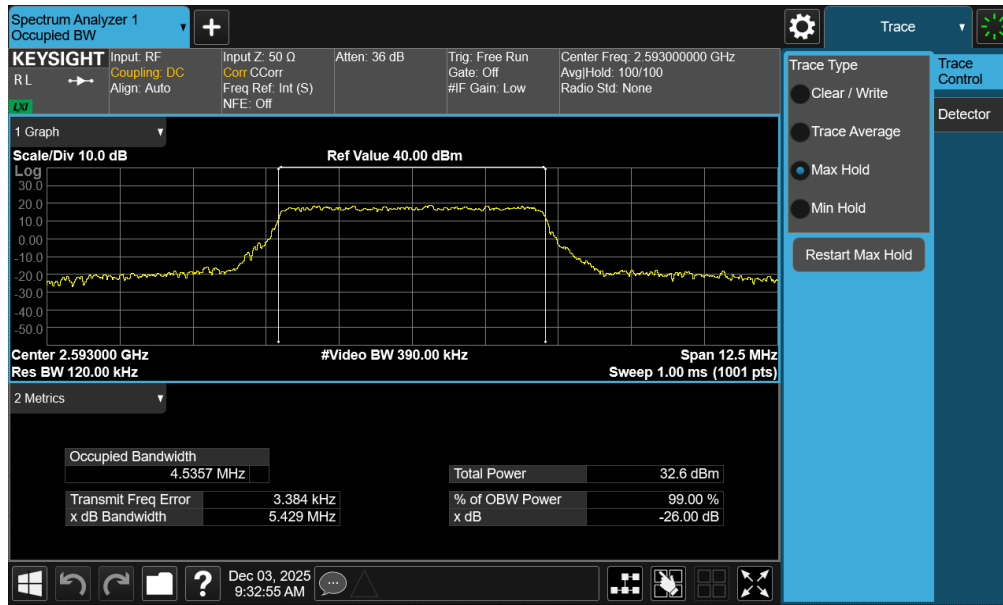
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1-A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 47 of 92



FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 48 of 92



FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 49 of 92



FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 50 of 92

7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

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

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

For Band 41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{\text{Watts}})$.

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.4

Test Settings

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

Test Setup

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

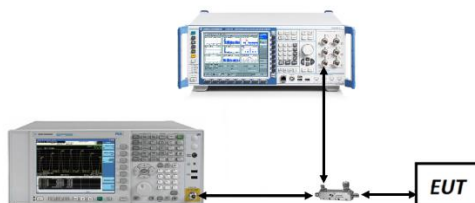


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27, RSS-195 and RSS-199, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
3. Only the highest target power SRS-1 antenna for n41 default (Antenna B) are reported for the overall n41 SRS worst case.

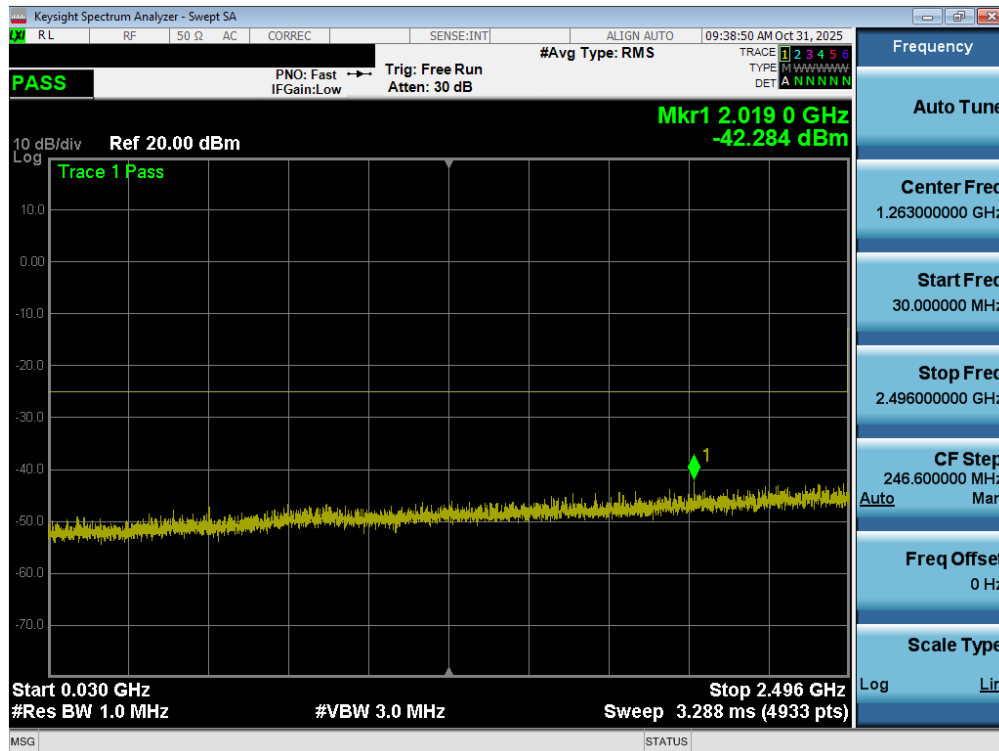
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 51 of 92

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	30.0 - 2288.0	-42.99	-25	-17.99
		Low	2365.0 - 15000.0	-37.73	-25	-12.73
		Low	15000.0 - 27000.0	-45.5	-25	-20.50
		Mid	30.0 - 2288.0	-42.33	-25	-17.33
		Mid	2570.0 - 15000.0	-36.85	-25	-11.85
		Mid	15000.0 - 27000.0	-47.15	-25	-22.14
		High	30.0 - 2288.0	-42.28	-25	-17.28
		High	2570.0 - 15000.0	-36.69	-25	-11.69
		High	15000.0 - 27000.0	-46.29	-25	-21.29

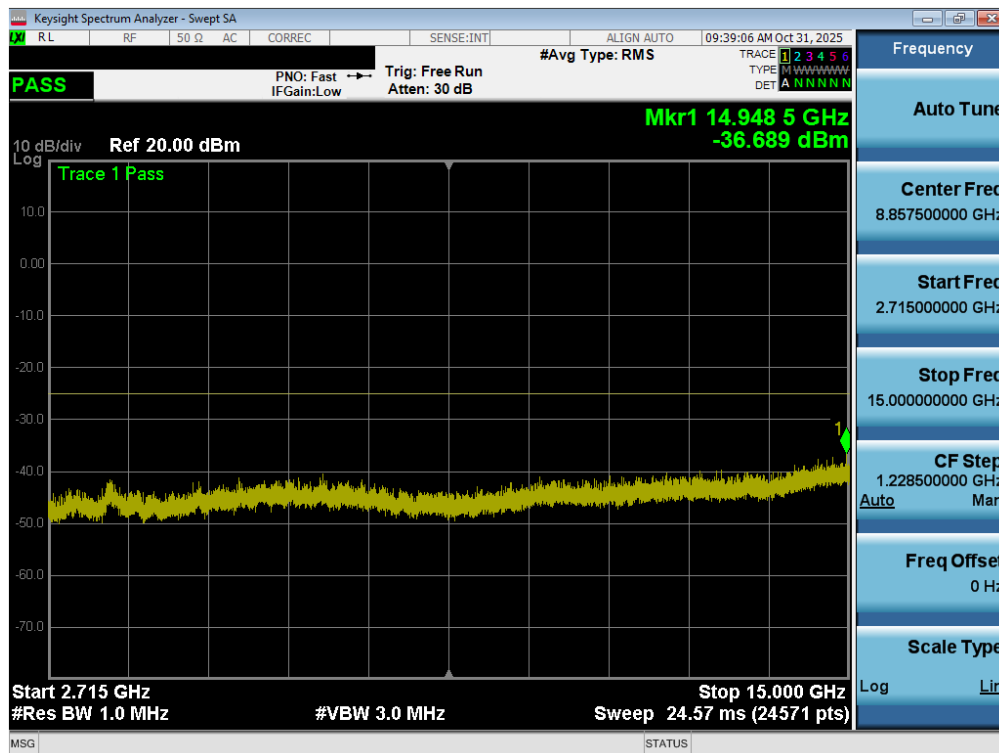
Table 7-10. Conducted Emission Test Results – LTE – Ant 1

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 52 of 92

LTE Band 41(PC3)– Ant1



Plot 7-50. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)



Plot 7-51. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 53 of 92



Plot 7-52. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

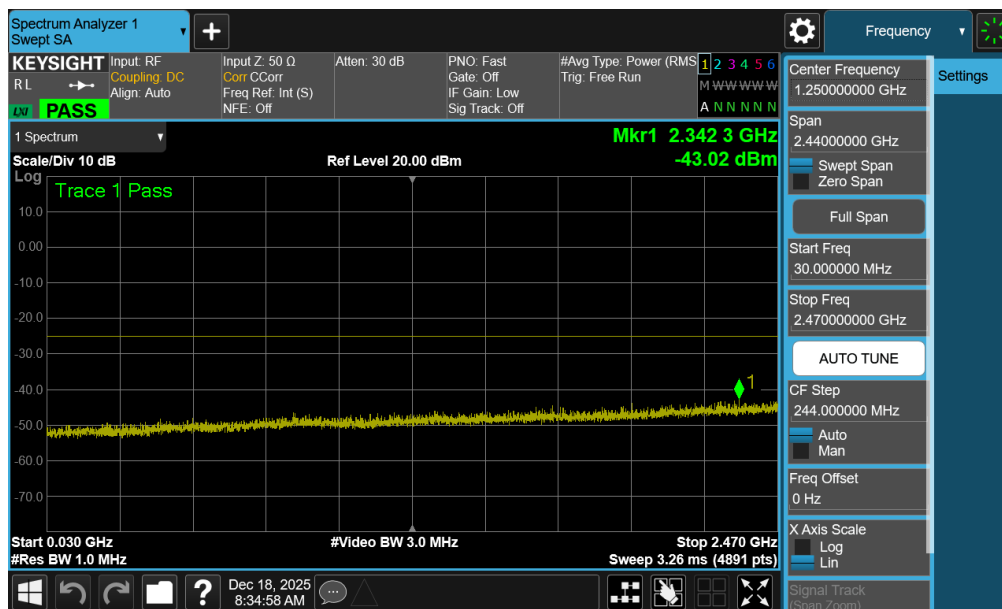
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 54 of 92

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	30.0 - 2470.0	-43.02	-25	-18.02
		Low	2690.0 - 15000.0	-37.2	-25	-12.20
		Low	15000.0 - 27000.0	-52.1	-25	-27.10
		Mid	30.0 - 2470.0	-39.04	-25	-14.04
		Mid	2690.0 - 15000.0	-38.16	-25	-13.16
		Mid	15000.0 - 27000.0	-52.15	-25	-27.15
		High	30.0 - 2470.0	-42.19	-25	-17.19
		High	2690.0 - 15000.0	-37.86	-25	-12.86
		High	15000.0 - 27000.0	-51.52	-25	-26.52

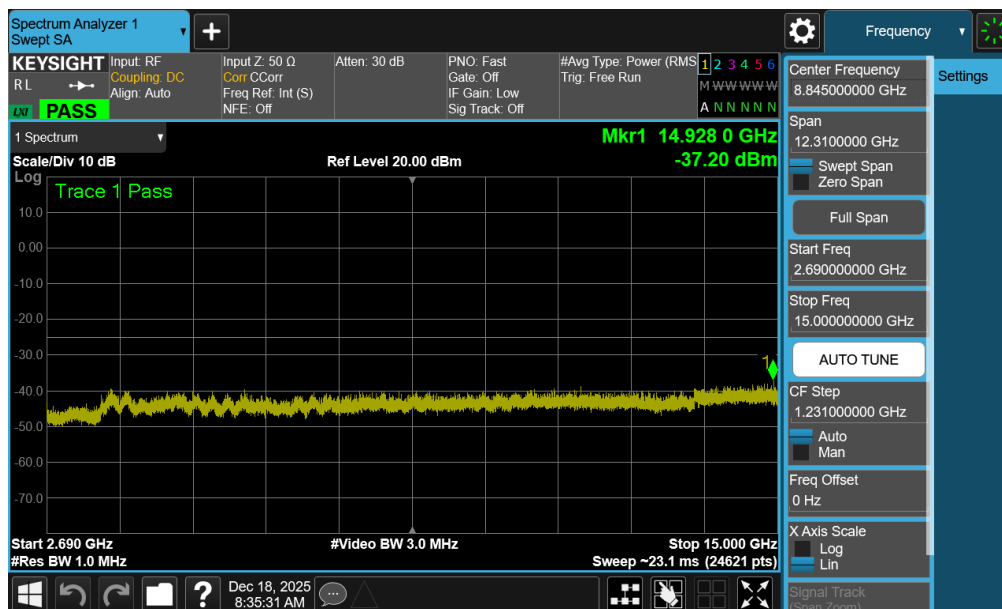
Table 7-11. Conducted Emission Test Results – NR – Ant 1

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 55 of 92

NR Band n41 – Main – Ant1

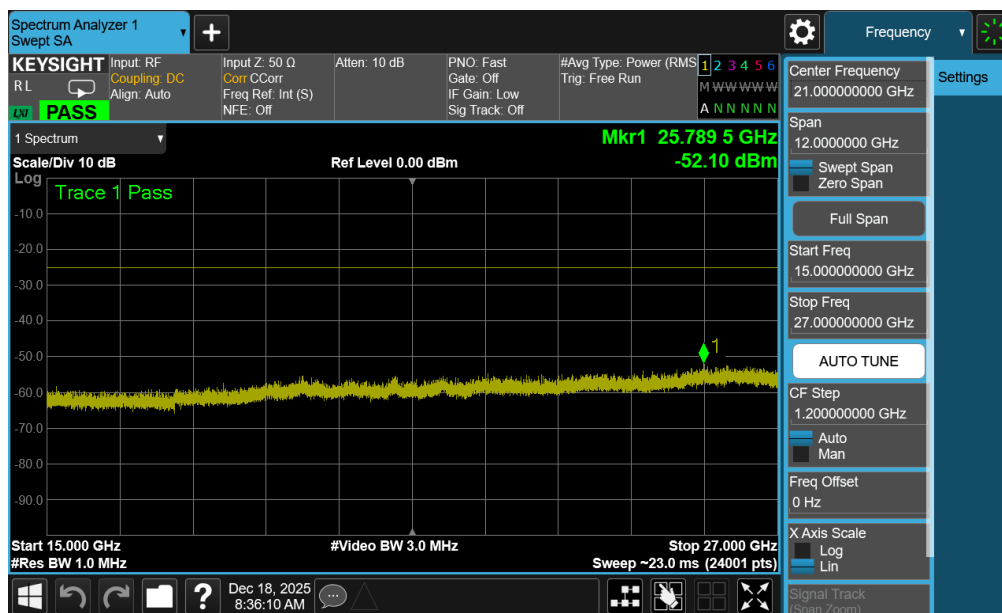


Plot 7-53. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)



Plot 7-54. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 56 of 92



Plot 7-55. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)

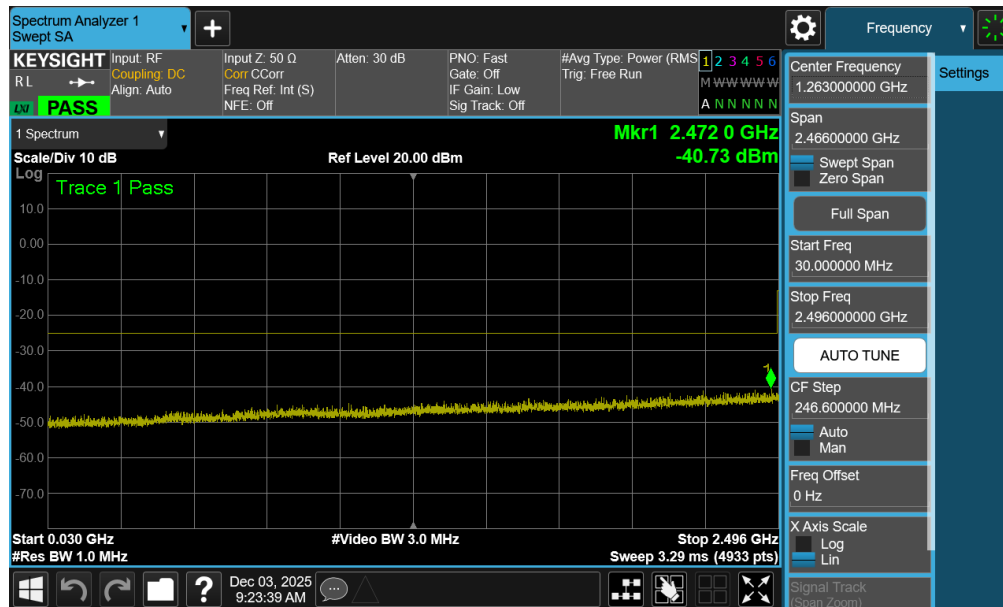
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 57 of 92

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	30.0 - 2475.0	-41.34	-25	-16.34
		Low	2690.0 - 15000.0	-36.59	-25	-11.59
		Low	15000.0 - 27000.0	-52.36	-25	-27.36
		Mid	30.0 - 2500.0	-41.06	-25	-16.06
		Mid	2690.0 - 15000.0	-36.05	-25	-11.05
		Mid	15000.0 - 27000.0	-51.46	-25	-26.46
		High	30.0 - 2500.0	-40.73	-25	-15.73
		High	2690.0 - 15000.0	-35.99	-25	-10.99
		High	15000.0 - 27000.0	-52.49	-25	-27.49

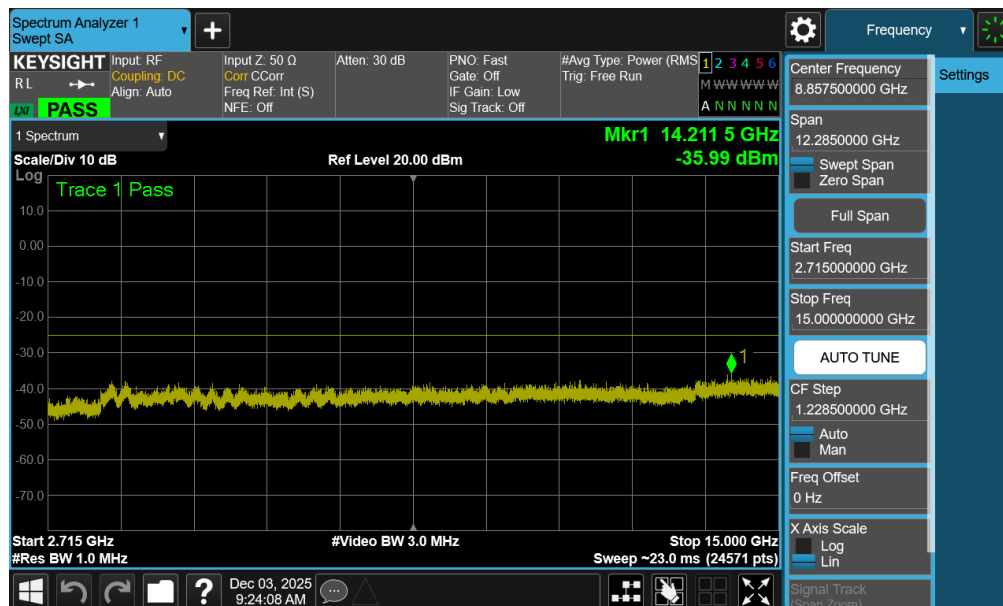
Table 7-12. Conducted Emission Test Results – LTE – Ant 2

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 58 of 92

LTE Band 41(PC3)– Ant2

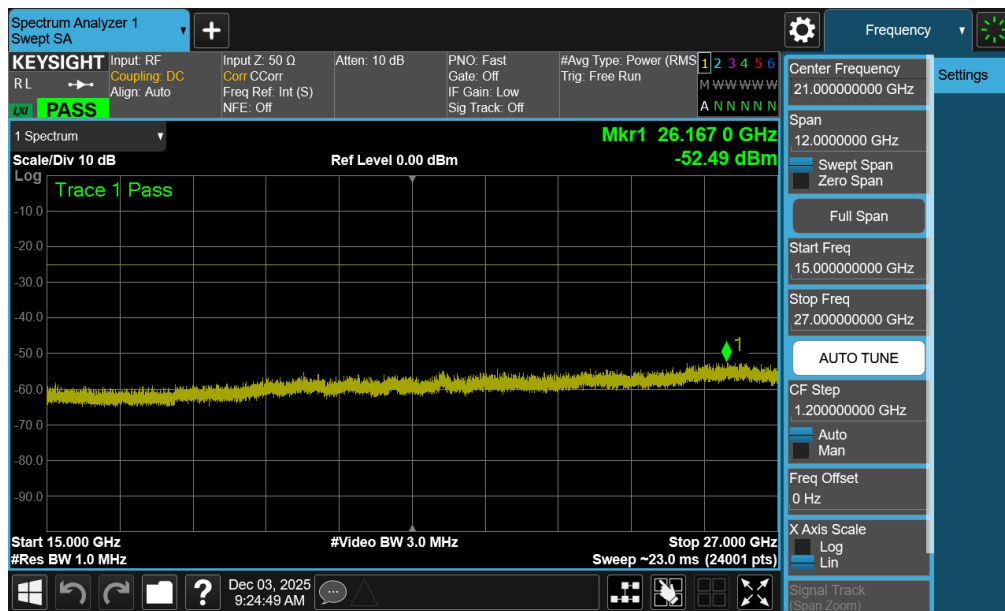


Plot 7-56. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2)



Plot 7-57. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 59 of 92



Plot 7-58. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 60 of 92

7.5 Band Edge Emissions at Antenna Terminal

Test Overview

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

The minimum permissible attenuation level for Band 41 is as noted in the Test Notes on the following page.

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.3

Test Settings

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

Test Setup

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

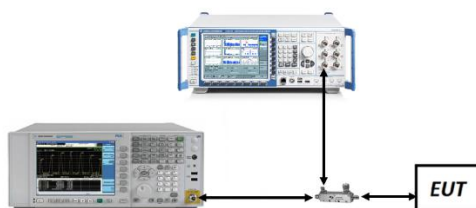


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 61 of 92

Test Notes

1. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
2. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.
3. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
4. Only the highest target power SRS-1 antenna for n41 default (Antenna B) are reported for the overall n41 SRS worst case.

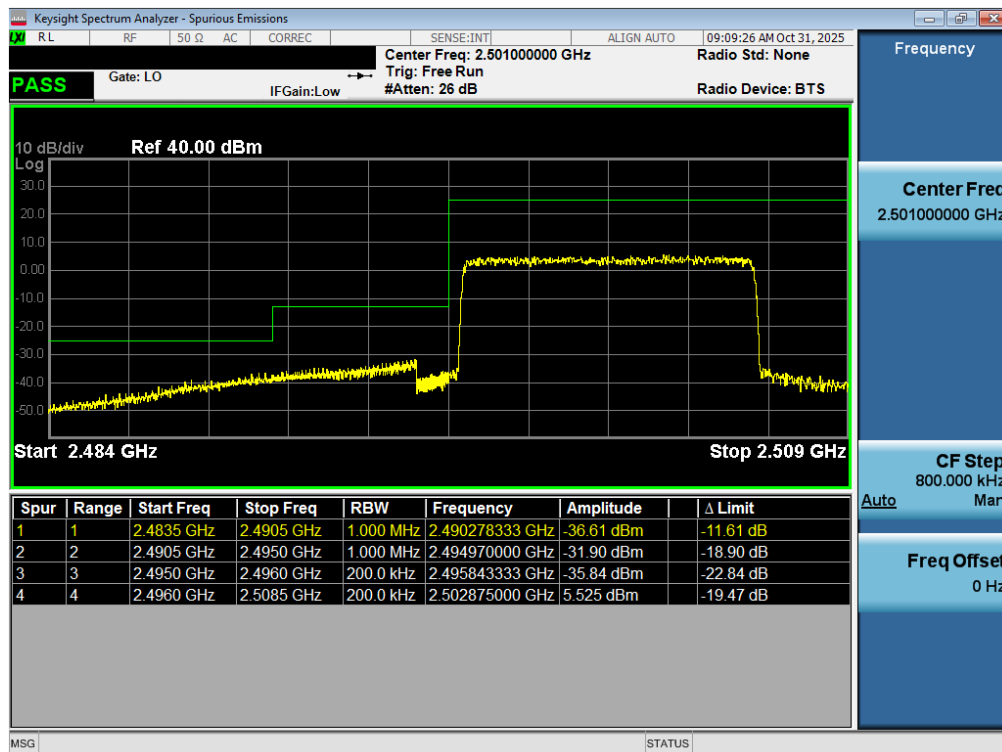
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 62 of 92

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	Band Edge	-37.89	-25	-12.89
		High	Band Edge	-34.61	-13	-21.61
	15MHz	Low	Band Edge	-37.93	-25	-12.93
		High	Band Edge	-33.84	-13	-20.84
	10MHz	Low	Band Edge	-36.61	-25	-11.61
		High	Band Edge	-43.85	-25	-18.85
	5MHz	Low	Band Edge	-41.50	-25	-16.50
		High	Band Edge	-27.58	-10	-17.58

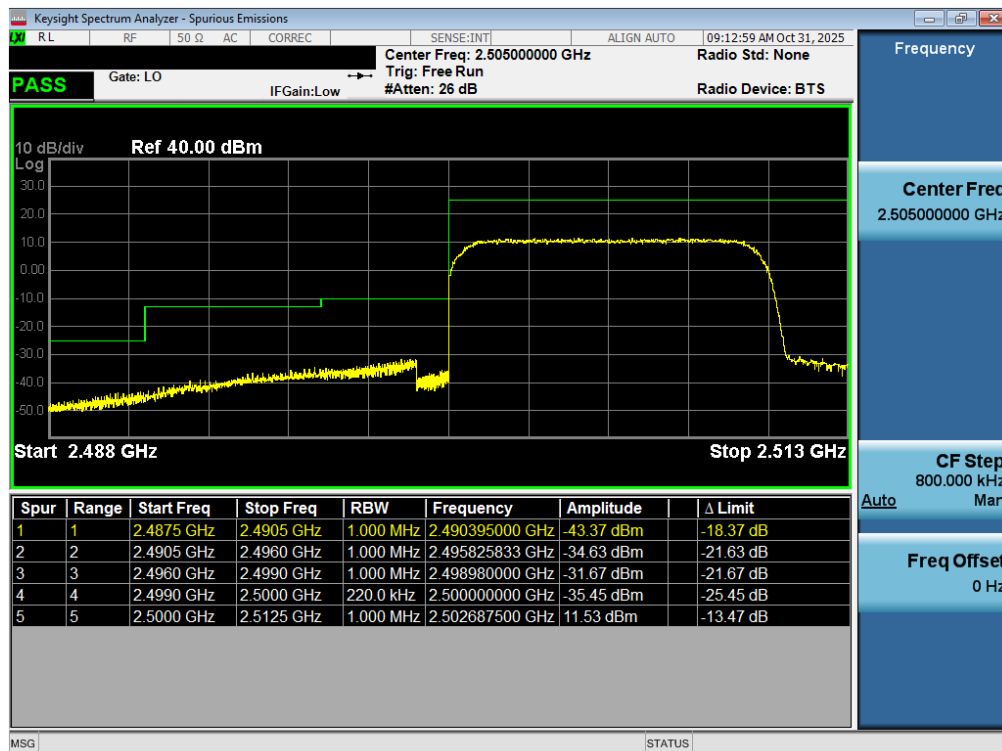
Table 7-13. Conducted Band Edge Test Results – LTE – Ant 1

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 63 of 92

LTE Band 41(PC3) – Ant1



Plot 7-59. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant1)



Plot 7-60. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant1) - ISED

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 64 of 92



Plot 7-61. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant1)

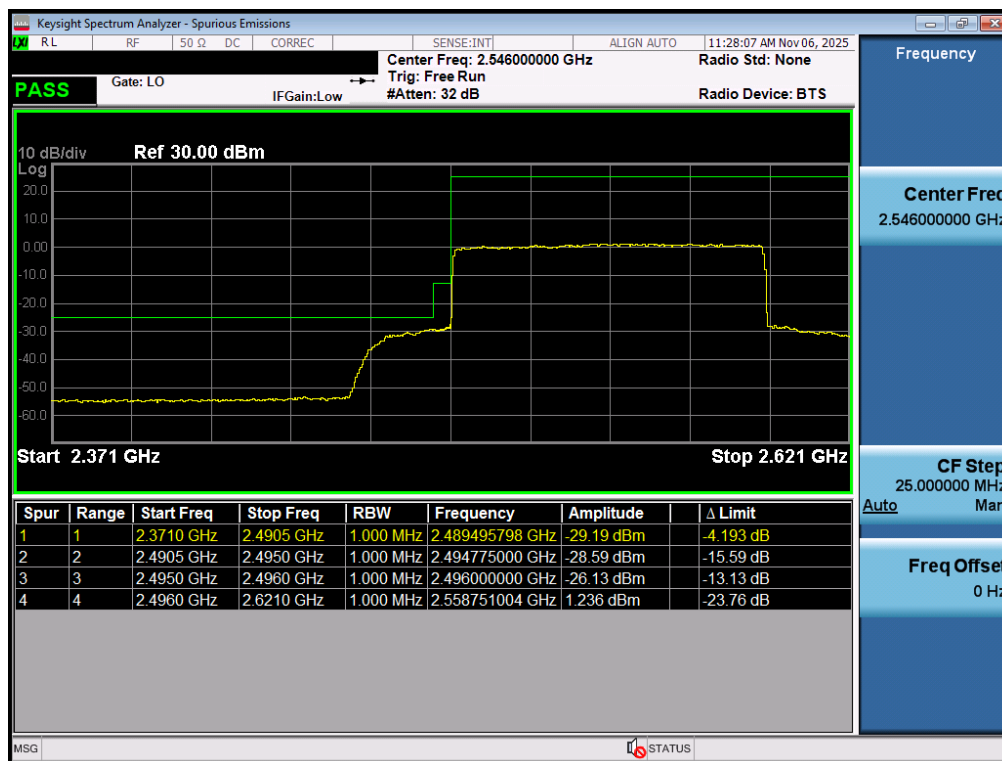
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 65 of 92

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-29.19	-25	-4.19
		High	Band Edge	-27.32	-13	-14.32
	90MHz	Low	Band Edge	-30.41	-25	-5.41
		High	Band Edge	-28.20	-13	-15.20
	80MHz	Low	Band Edge	-30.31	-25	-5.31
		High	Band Edge	-27.46	-13	-14.46
	70MHz	Low	Band Edge	-30.48	-25	-5.48
		High	Band Edge	-27.45	-13	-14.45
	60MHz	Low	Band Edge	-31.29	-25	-6.29
		High	Band Edge	-22.44	-10	-12.44
	50MHz	Low	Band Edge	-30.11	-25	-5.11
		High	Band Edge	-24.88	-13	-11.88
	40MHz	Low	Band Edge	-31.51	-25	-6.51
		High	Band Edge	-27.84	-13	-14.84
	30MHz	Low	Band Edge	-32.50	-25	-7.50
		High	Band Edge	-27.14	-13	-14.14
	20MHz	Low	Band Edge	-32.27	-25	-7.27
		High	Band Edge	-26.54	-13	-13.54
	15MHz	Low	Band Edge	-33.49	-25	-8.49
		High	Band Edge	-23.30	-10	-13.30
	10MHz	Low	Band Edge	-33.04	-25	-8.04
		High	Band Edge	-21.80	-10	-11.80

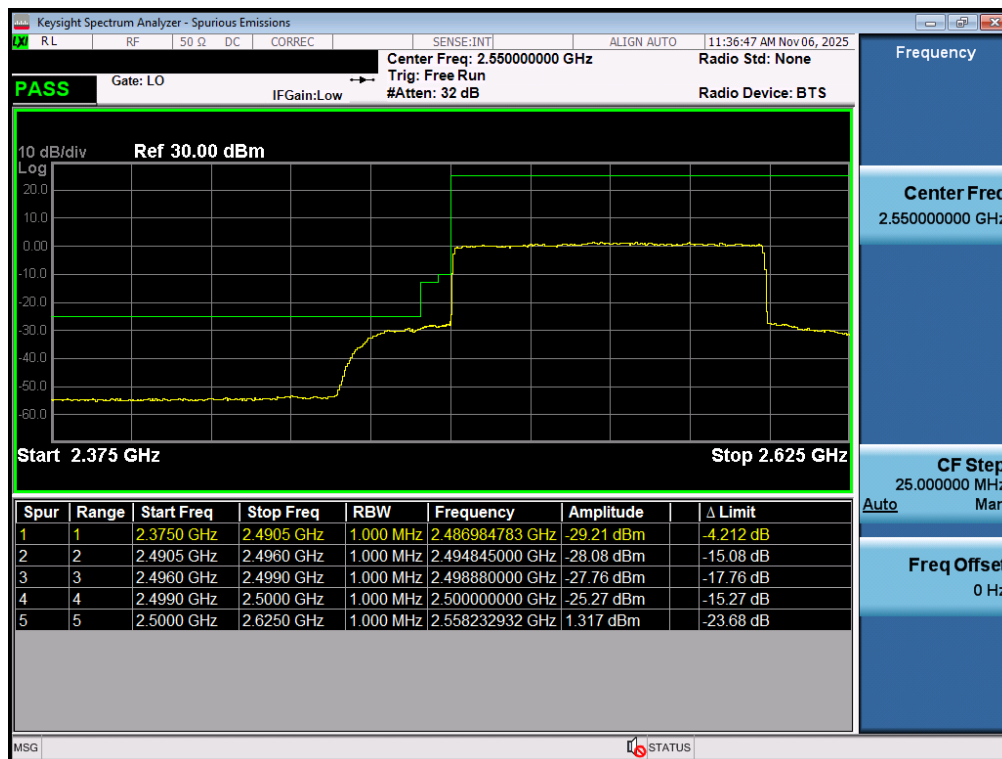
Table 7-14. Conducted Band Edge Test Results – n41 Ant 1

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 66 of 92

NR Band n41 – Main – Ant1

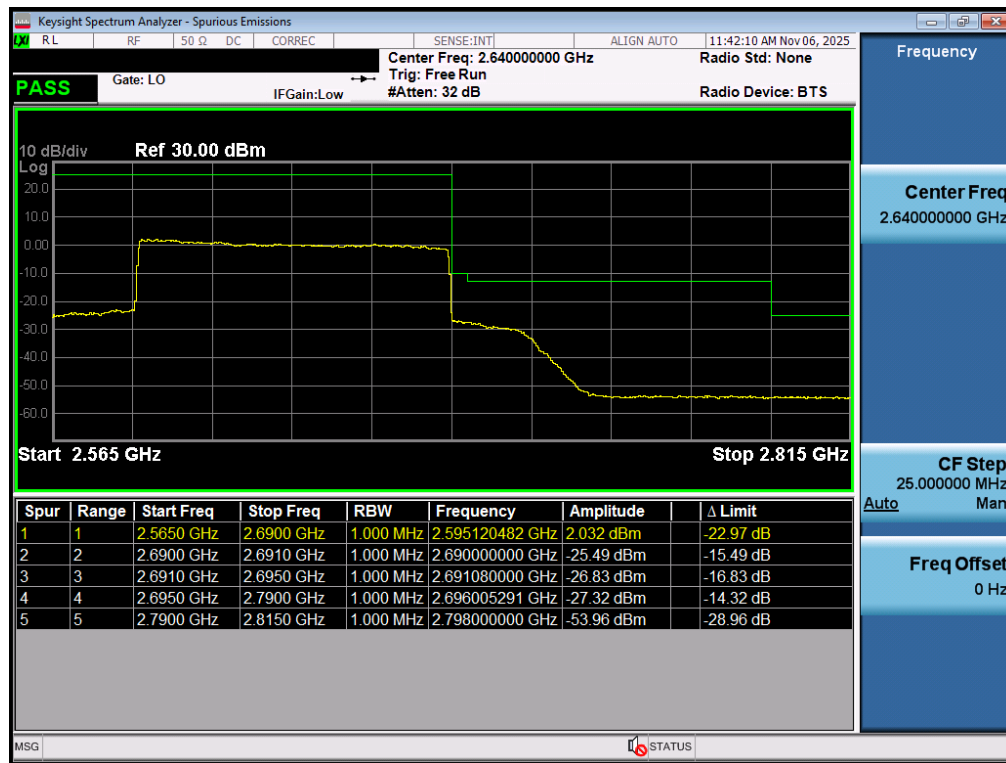


Plot 7-62. Lower ACP Plot (NR Band n41PC3 - 100MHz CP-OFDM-QPSK – Full RB - Ant1)



Plot 7-63. Lower ACP Plot (NR Band n41PC3 - 100MHz CP-OFDM-QPSK – Full RB - Ant1) - ISED

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 67 of 92



Plot 7-64. Upper ACP Plot (NR Band n41PC3 - 100MHz CP-OFDM-QPSK - Full RB - Ant1)

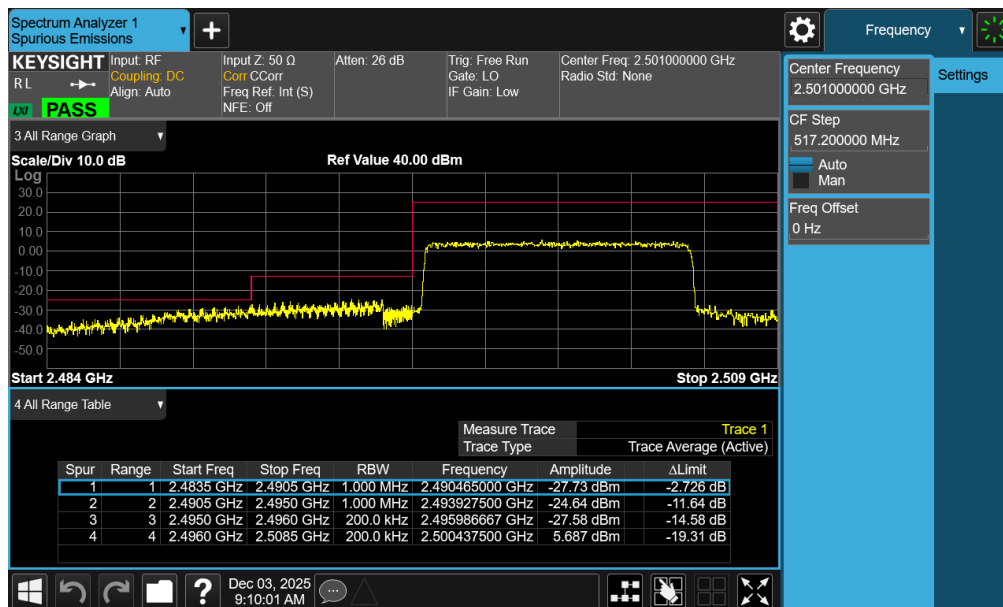
FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 68 of 92

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	Band Edge	-28.31	-25	-3.31
		High	Band Edge	-39.67	-25	-14.67
	15MHz	Low	Band Edge	-28.32	-25	-3.32
		High	Band Edge	-28.34	-13	-15.34
	10MHz	Low	Band Edge	-27.73	-25	-2.73
		High	Band Edge	-22.29	-10	-12.29
	5MHz	Low	Band Edge	-25.64	-13	-12.64
		High	Band Edge	-22.49	-10	-12.49

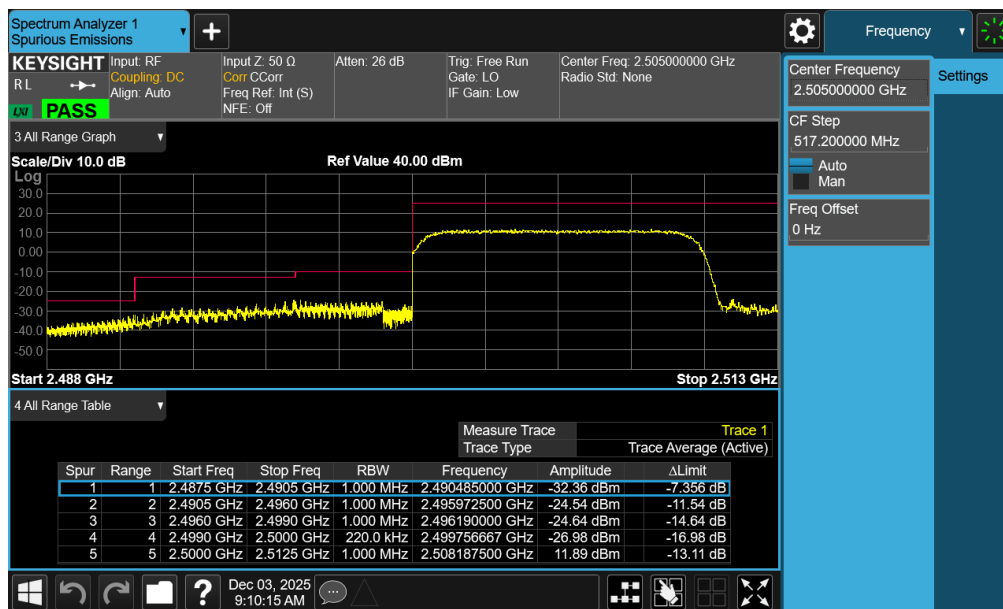
Table 7-15. Conducted Band Edge Test Results – LTE – Ant 2

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 69 of 92

LTE Band 41(PC3) – Ant2

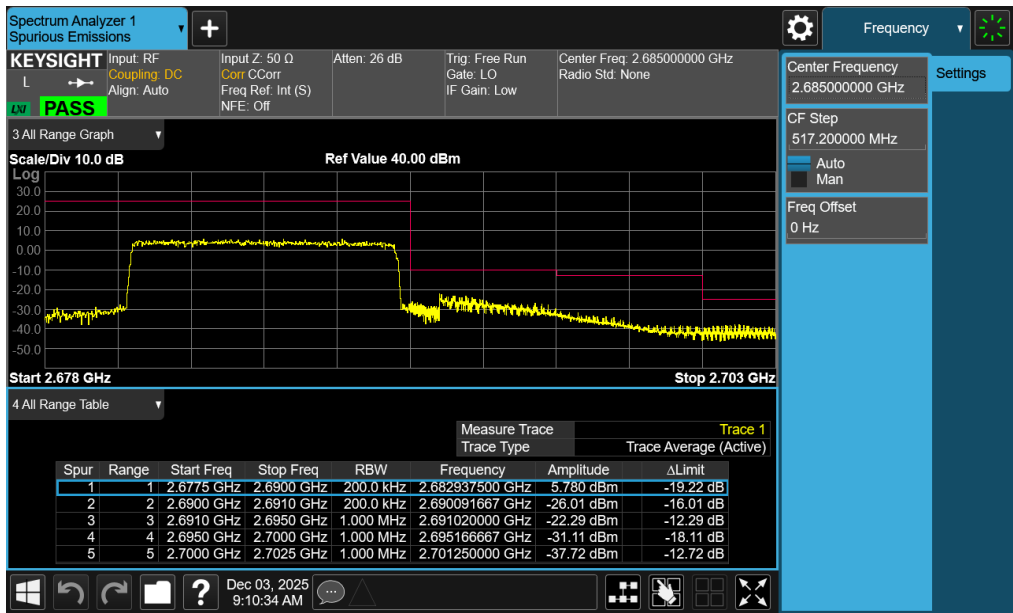


Plot 7-65. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2)



Plot 7-66. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2) - ISED

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1-A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 70 of 92



Plot 7-67. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 71 of 92

7.6 Radiated Power (EIRP)

Test Overview

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

Test Procedures Used

ANSI C63.26:2015 – Section 5.2.4.4

Test Settings

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

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 72 of 92

Test Setup

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

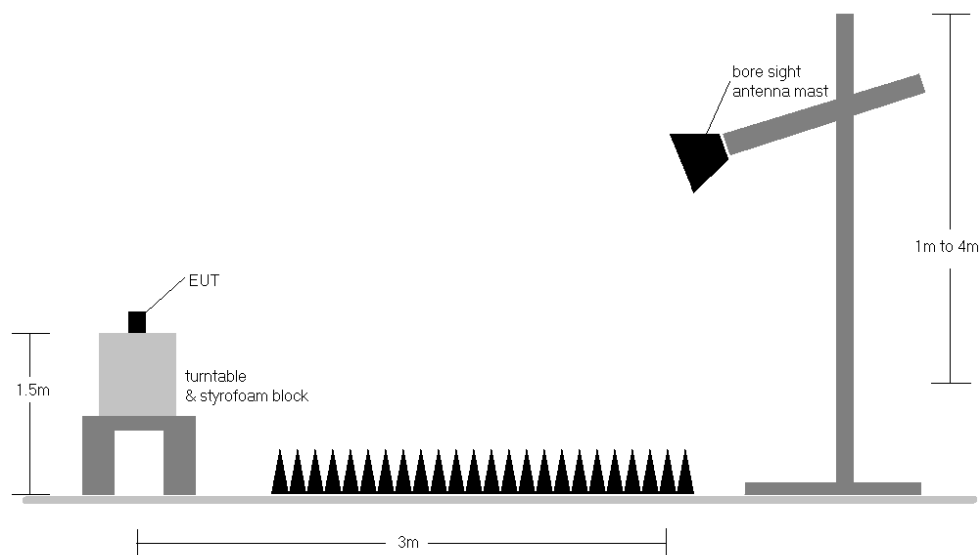


Figure 7-5. Radiated Test Setup >1GHz

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.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 4) Only the highest target power SRS-1 antenna for n41 default (Antenna B) are reported for the overall n41 SRS worst case.

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 73 of 92

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	127	209	4.17	1 / 99	17.35	21.52	0.142	33.01	-11.49
	QPSK	2593.0	H	112	211	4.00	1 / 99	19.26	23.26	0.212	33.01	-9.75
	QPSK	2680.0	H	120	209	4.50	1 / 99	17.61	22.11	0.163	33.01	-10.90
	16-QAM	2593.0	H	112	211	4.00	1 / 99	18.51	22.51	0.178	33.01	-10.50
15 MHz	QPSK	2503.5	H	127	209	4.17	1 / 0	17.36	21.53	0.142	33.01	-11.48
	QPSK	2593.0	H	112	211	4.00	1 / 0	19.28	23.28	0.213	33.01	-9.73
	QPSK	2682.5	H	120	209	4.51	1 / 74	17.60	22.11	0.163	33.01	-10.90
	16-QAM	2593.0	H	112	211	4.00	1 / 0	18.57	22.57	0.181	33.01	-10.44
10 MHz	QPSK	2501.0	H	127	209	4.17	1 / 0	17.34	21.51	0.142	33.01	-11.50
	QPSK	2593.0	H	112	211	4.00	1 / 0	19.30	23.30	0.214	33.01	-9.71
	QPSK	2685.0	H	120	209	4.52	1 / 0	17.62	22.14	0.164	33.01	-10.87
	16-QAM	2593.0	H	112	211	4.00	1 / 0	18.56	22.56	0.180	33.01	-10.45
5 MHz	QPSK	2498.5	H	127	209	4.16	1 / 24	17.34	21.50	0.141	33.01	-11.51
	QPSK	2593.0	H	112	211	4.00	1 / 24	19.35	23.35	0.216	33.01	-9.66
	QPSK	2687.5	H	120	209	4.53	1 / 0	17.59	22.12	0.163	33.01	-10.89
	16-QAM	2593.0	H	112	211	4.00	1 / 24	18.58	22.58	0.181	33.01	-10.43
20 MHz	Opposite Pol.	2593.0	V	225	283	4.14	1 / 99	14.17	18.31	0.068	33.01	-14.70

Table 7-16. EIRP Data (LTE Band 41(PC3)) – Ant1

FCC ID: A3LSMA576B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-08-R1.A3L	Test Dates: 10/31/2025 - 12/19/2025	EUT Type: Portable Handset	Page 74 of 92

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.01	H	108	203	4.19	1 / 271	19.28	23.47	0.222	33.01	-9.54
	$\pi/2$ BPSK	2592.99	H	112	201	4.00	1 / 136	18.86	22.86	0.193	33.01	-10.15
	$\pi/2$ BPSK	2640.00	H	112	201	4.31	1 / 1	19.31	23.62	0.230	33.01	-9.39
	QPSK	2546.01	H	108	203	4.19	1 / 271	19.06	23.25	0.211	33.01	-9.76
	QPSK	2592.99	H	112	201	4.00	1 / 136	18.74	22.74	0.188	33.01	-10.27
	QPSK	2640.00	H	112	201	4.31	1 / 1	19.50	23.81	0.241	33.01	-9.20
90 MHz	16-QAM	2640.00	H	112	201	4.31	1 / 1	18.28	22.59	0.182	33.01	-10.42
	$\pi/2$ BPSK	2541.00	H	108	203	0.00	1 / 122	23.49	23.49	0.223	33.01	-9.52
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 122	22.85	22.85	0.193	33.01	-10.16
	$\pi/2$ BPSK	2644.98	H	112	201	0.00	1 / 122	23.63	23.63	0.231	33.01	-9.38
	QPSK	2541.00	H	108	203	0.00	1 / 1	23.19	23.19	0.209	33.01	-9.82
	QPSK	2592.99	H	112	201	0.00	1 / 122	22.73	22.73	0.187	33.01	-10.28
80 MHz	QPSK	2644.98	H	112	201	0.00	1 / 122	24.00	24.00	0.251	33.01	-9.01
	16-QAM	2644.98	H	112	201	0.00	1 / 122	22.75	22.75	0.188	33.01	-10.26
	$\pi/2$ BPSK	2536.02	H	108	203	0.00	1 / 1	23.47	23.47	0.222	33.01	-9.54
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 108	22.87	22.87	0.194	33.01	-10.14
	$\pi/2$ BPSK	2649.99	H	112	201	0.00	1 / 108	23.66	23.66	0.232	33.01	-9.35
	QPSK	2536.02	H	108	203	0.00	1 / 1	23.21	23.21	0.209	33.01	-9.80
70 MHz	QPSK	2592.99	H	112	201	0.00	1 / 108	22.69	22.69	0.186	33.01	-10.32
	QPSK	2649.99	H	112	201	0.00	1 / 108	24.01	24.01	0.252	33.01	-9.00
	16-QAM	2649.99	H	112	201	0.00	1 / 108	22.72	22.72	0.187	33.01	-10.29
	$\pi/2$ BPSK	2531.01	H	108	203	0.00	1 / 1	23.45	23.45	0.221	33.01	-9.56
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 94	22.86	22.86	0.193	33.01	-10.15
	$\pi/2$ BPSK	2655.00	H	112	201	0.00	1 / 94	23.79	23.79	0.239	33.01	-9.22
60 MHz	QPSK	2531.01	H	108	203	0.00	1 / 1	23.20	23.20	0.209	33.01	-9.81
	QPSK	2592.99	H	112	201	0.00	1 / 94	22.69	22.69	0.186	33.01	-10.32
	QPSK	2655.00	H	112	201	0.00	1 / 94	24.01	24.01	0.252	33.01	-9.00
	16-QAM	2655.00	H	112	201	0.00	1 / 94	22.67	22.67	0.185	33.01	-10.34
	$\pi/2$ BPSK	2526.00	H	108	203	0.00	1 / 1	23.41	23.41	0.219	33.01	-9.60
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 81	22.89	22.89	0.194	33.01	-10.12
50 MHz	$\pi/2$ BPSK	2659.98	H	112	201	0.00	1 / 81	23.74	23.74	0.237	33.01	-9.27
	QPSK	2526.00	H	108	203	0.00	1 / 1	23.21	23.21	0.209	33.01	-9.80
	QPSK	2592.99	H	112	201	0.00	1 / 81	22.82	22.82	0.191	33.01	-10.19
	QPSK	2659.98	H	112	201	0.00	1 / 81	23.92	23.92	0.247	33.01	-9.09
	16-QAM	2659.98	H	112	201	0.00	1 / 81	22.85	22.85	0.193	33.01	-10.16
	$\pi/2$ BPSK	2521.02	H	108	203	0.00	1 / 66	23.56	23.56	0.227	33.01	-9.45
40 MHz	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 66	22.82	22.82	0.191	33.01	-10.19
	$\pi/2$ BPSK	2664.99	H	112	201	0.00	1 / 66	23.79	23.79	0.239	33.01	-9.22
	QPSK	2521.02	H	108	203	0.00	1 / 1	23.26	23.26	0.212	33.01	-9.75
	QPSK	2592.99	H	112	201	0.00	1 / 66	22.71	22.71	0.187	33.01	-10.30
	QPSK	2664.99	H	112	201	0.00	1 / 66	24.01	24.01	0.252	33.01	-9.00
	16-QAM	2664.99	H	112	201	0.00	1 / 66	22.87	22.87	0.194	33.01	-10.14
30 MHz	$\pi/2$ BPSK	2516.01	H	108	203	0.00	1 / 53	23.35	23.35	0.216	33.01	-9.66
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 53	22.97	22.97	0.198	33.01	-10.04
	$\pi/2$ BPSK	2670.00	H	112	201	0.00	1 / 53	23.81	23.81	0.241	33.01	-9.20
	QPSK	2516.01	H	108	203	0.00	1 / 53	23.00	23.00	0.200	33.01	-10.01
	QPSK	2592.99	H	112	201	0.00	1 / 53	22.75	22.75	0.188	33.01	-10.26
	QPSK	2670.00	H	112	201	0.00	1 / 53	23.99	23.99	0.251	33.01	-9.02
20 MHz	16-QAM	2670.00	H	112	201	0.00	1 / 53	22.79	22.79	0.190	33.01	-10.22
	$\pi/2$ BPSK	2511.00	H	108	203	0.00	1 / 39	23.39	23.39	0.218	33.01	-9.62
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 39	22.96	22.96	0.198	33.01	-10.05
	$\pi/2$ BPSK	2674.98	H	112	201	0.00	1 / 39	23.73	23.73	0.236	33.01	-9.28
	QPSK	2511.00	H	108	203	0.00	1 / 76	23.06	23.06	0.202	33.01	-9.95
	QPSK	2592.99	H	112	201	0.00	1 / 39	22.76	22.76	0.189	33.01	-10.25
15 MHz	QPSK	2674.98	H	112	201	0.00	1 / 39	24.08	24.08	0.256	33.01	-8.93
	16-QAM	2674.98	H	112	201	0.00	1 / 39	22.86	22.86	0.193	33.01	-10.15
	$\pi/2$ BPSK	2506.02	H	108	203	0.00	1 / 49	23.34	23.34	0.216	33.01	-9.67
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 25	22.84	22.84	0.192	33.01	-10.17
	$\pi/2$ BPSK	2679.99	H	112	201	0.00	1 / 1	23.60	23.60	0.229	33.01	-9.41
	QPSK	2506.02	H	108	203	0.00	1 / 49	23.02	23.02	0.201	33.01	-9.99
10 MHz	QPSK	2592.99	H	112	201	0.00	1 / 25	22.71	22.71	0.187	33.01	-10.30
	QPSK	2679.99	H	112	201	0.00	1 / 1	24.00	24.00	0.251	33.01	-9.01
	16-QAM	2679.99	H	112	201	0.00	1 / 1	22.70	22.70	0.186	33.01	-10.31
	$\pi/2$ BPSK	2503.50	H	108	203	0.00	1 / 19	23.30	23.30	0.214	33.01	-9.71
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 19	22.92	22.92	0.196	33.01	-10.09
	$\pi/2$ BPSK	2682.50	H	112	201	0.00	1 / 1	23.55	23.55	0.227	33.01	-9.46
100 MHz	QPSK	2503.50	H	108	203	0.00	1 / 19	22.96	22.96	0.198	33.01	-10.05
	QPSK	2592.99	H	112	201	0.00	1 / 19	22.81	22.81	0.191	33.01	-10.20
	QPSK	2682.50	H	112	201	0.00	1 / 1	23.94	23.94	0.248	33.01	-9.07
	16-QAM	2503.50	H	108	203	0.00	1 / 19	22.78	22.78	0.190	33.01	-10.23
	$\pi/2$ BPSK	2501.00	H	108	203	0.00	1 / 22	23.44	23.44	0.221	33.01	-9.57
	$\pi/2$ BPSK	2592.99	H	112	201	0.00	1 / 12	22.94	22.94	0.197	33.01	-10.07
100 MHz	$\pi/2$ BPSK	2685.00	H	112	201	0.00	1 / 1	23.40	23.40	0.219	33.01	-9.61
	QPSK	2501.00	H	108	203	0.00	1 / 22	23.12	23.12	0.205	33.01	-9.89
	QPSK	2592.99	H	112	201	0.00	1 / 12	22.82	22.82	0.191	33.01	-10.19
	QPSK	2685.00	H	112	201	0.00	1 / 1	23.80	23.80	0.240	33.01	-9.21
	16-QAM	2501.00	H	108	203	0.00	1 / 12	22.72	22.72	0.187	33.01	-10.29
	QPSK (CP-OFDM)	2640.00	H	112	201	4.31	1 / 1	18.33	22.64	0.184	33.01	-10.37
100 MHz	QPSK (Opposite Pol.)	2640.00	V	227	223	4.39	1 / 1	17.92	22.31	0.170	33.01	-10.70

Table 7-17. EIRP Data (NR Band n41 (PC3)) – Ant1

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	158	322	4.17	1 / 50	17.71	21.88	0.154	33.01	-11.13
	QPSK	2593.0	H	143	318	4.00	1 / 50	17.98	21.98	0.158	33.01	-11.03
	QPSK	2680.0	H	168	313	4.50	1 / 0	16.53	21.03	0.127	33.01	-11.98
	16-QAM	2593.0	H	143	318	4.00	1 / 50	16.48	20.48	0.112	33.01	-12.53
15 MHz	QPSK	2503.5	H	158	322	4.17	1 / 0	17.84	22.01	0.159	33.01	-11.00
	QPSK	2593.0	H	143	318	4.00	1 / 74	18.04	22.04	0.160	33.01	-10.97
	QPSK	2682.5	H	168	313	4.51	1 / 37	16.40	20.91	0.123	33.01	-12.10
	16-QAM	2593.0	H	143	318	4.00	1 / 74	16.42	20.42	0.110	33.01	-12.59
10 MHz	QPSK	2501.0	H	158	322	4.17	1 / 0	17.84	22.01	0.159	33.01	-11.00
	QPSK	2593.0	H	143	318	4.00	1 / 49	17.94	21.94	0.156	33.01	-11.07
	QPSK	2685.0	H	168	313	4.52	1 / 0	16.54	21.06	0.128	33.01	-11.95
	16-QAM	2593.0	H	143	318	4.00	1 / 49	16.57	20.57	0.114	33.01	-12.44
5 MHz	QPSK	2498.5	H	158	322	4.16	1 / 0	17.83	21.99	0.158	33.01	-11.02
	QPSK	2593.0	H	143	318	4.00	1 / 24	17.94	21.94	0.156	33.01	-11.07
	QPSK	2687.5	H	168	313	4.53	1 / 0	16.48	21.01	0.126	33.01	-12.00
	16-QAM	2593.0	H	143	318	4.00	1 / 24	16.46	20.46	0.111	33.01	-12.55
20 MHz	Opposite Pol.	2593.0	V	139	304	4.14	1 / 99	15.79	19.93	0.098	33.01	-13.08

Table 7-18. EIRP Data (LTE Band 41(PC3)) – Ant2

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7.7 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

ANSI C63.26:2015 – Section 5.5.4

Test Settings

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

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Test Setup

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

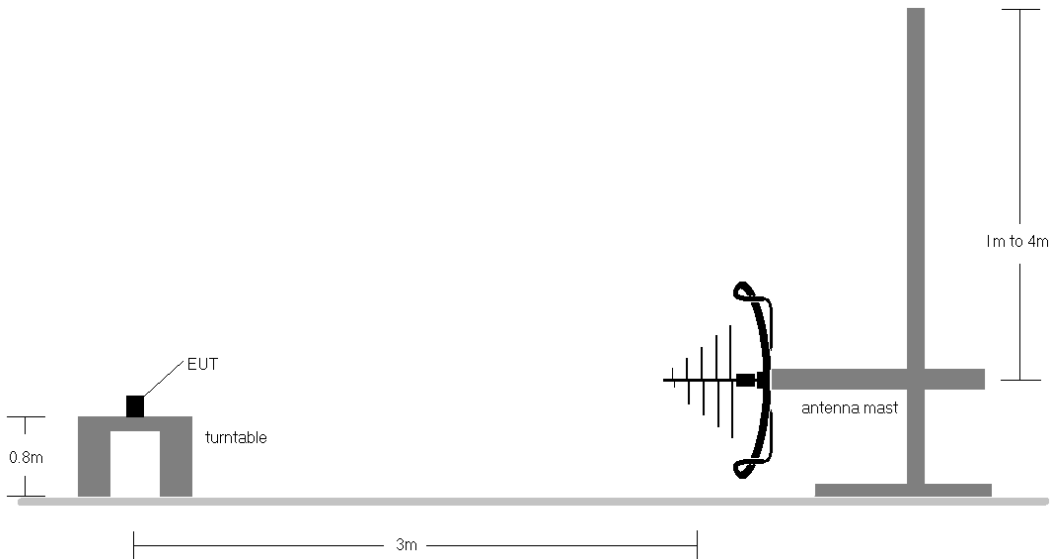


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

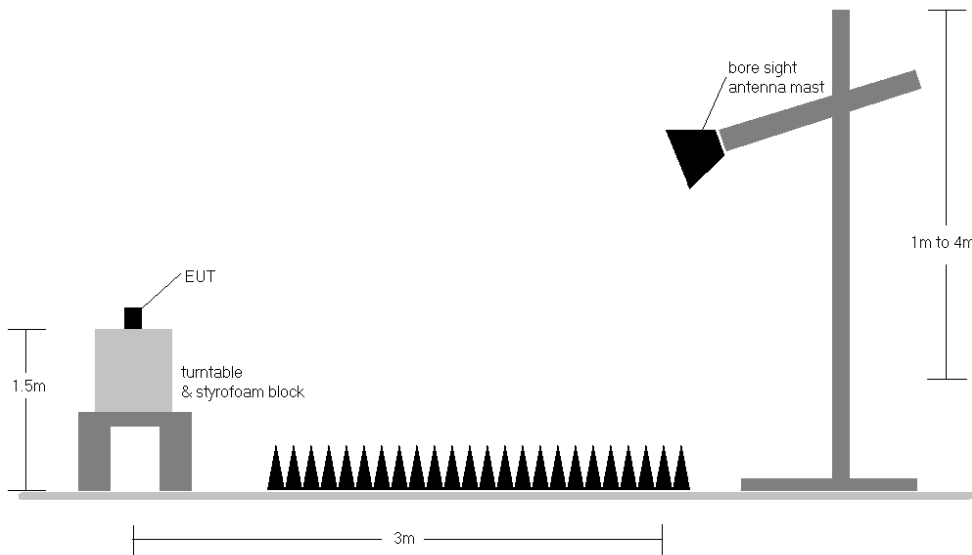


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) 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.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.
- 9) Only the highest target power SRS-1 antenna for n41 default (Antenna B) are reported for the overall n41 SRS worst case.

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