

PART 27 MEASUREMENT REPORT

Applicant Name:
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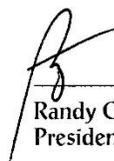
Date of Testing:
3/26 – 06/10/2021
Test Site/Location:
PCTEST Lab. Columbia, MD, USA
Test Report Serial No.:
1M2104020031-04.A3L

FCC ID:	A3LSMF926U
APPLICANT:	Samsung Electronics Co., Ltd.

Application Type: Certification
Model: SM-F926U
Additional Model(s): SM-F926U1
EUT Type: Portable Handset
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part: 27
Test Procedure(s): ANSI C63.26-2015, ANSI/TIA-603-E-2016, KDB 971168 D01 v03r01, 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.


Randy Ortanez
President

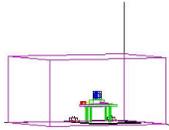


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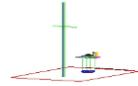
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FCC Part 27



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	ERP		EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	
LTE Band 71	20 MHz	QPSK	673.0 - 688.0	0.069	18.410	0.114	20.56	18M0G7D
		16QAM	673.0 - 688.0	0.056	17.500	0.092	19.65	17M9W7D
	15 MHz	QPSK	670.5 - 690.5	0.076	18.810	0.125	20.96	13M5G7D
		16QAM	670.5 - 690.5	0.056	17.447	0.091	19.60	13M5W7D
	10 MHz	QPSK	668.0 - 693.0	0.078	18.896	0.127	21.05	8M99G7D
		16QAM	668.0 - 693.0	0.058	17.620	0.095	19.77	9M01W7D
5 MHz	QPSK	665.5 - 695.5	0.069	18.412	0.114	20.56	4M53G7D	
	16QAM	665.5 - 695.5	0.054	17.313	0.088	19.46	4M52W7D	
LTE Band 12/17	10 MHz	QPSK	704.0 - 711.0	0.068	18.344	0.112	20.49	8M98G7D
		16QAM	704.0 - 711.0	0.060	17.807	0.099	19.96	8M98W7D
	5 MHz	QPSK	701.5 - 713.5	0.071	18.509	0.116	20.66	4M56G7D
		16QAM	701.5 - 713.5	0.057	17.557	0.093	19.71	4M51W7D
	3 MHz	QPSK	700.5 - 714.5	0.069	18.373	0.113	20.52	2M71G7D
		16QAM	700.5 - 714.5	0.062	17.892	0.101	20.04	2M71W7D
1.4 MHz	QPSK	699.7 - 715.3	0.066	18.216	0.109	20.37	1M10G7D	
	16QAM	699.7 - 715.3	0.058	17.635	0.095	19.78	1M10W7D	
LTE Band 13	10 MHz	QPSK	782.0	0.082	19.133	0.134	21.28	8M97G7D
		16QAM	782.0	0.043	16.383	0.071	18.53	8M98W7D
	5 MHz	QPSK	779.5 - 784.5	0.088	19.442	0.144	21.59	4M58G7D
		16QAM	779.5 - 784.5	0.046	16.650	0.076	18.80	4M53W7D
NR Band n71	20 MHz	$\pi/2$ BPSK	673.0 - 688.0	0.044	16.431	0.072	18.58	18M0G7D
		QPSK	673.0 - 688.0	0.044	16.391	0.071	18.54	19M0G7D
		16QAM	673.0 - 688.0	0.034	15.301	0.056	17.45	19M0W7D
	15 MHz	$\pi/2$ BPSK	670.5 - 690.5	0.044	16.446	0.072	18.60	13M5G7D
		QPSK	670.5 - 690.5	0.043	16.317	0.070	18.47	14M2G7D
		16QAM	670.5 - 690.5	0.032	15.025	0.052	17.17	14M2W7D
	10 MHz	$\pi/2$ BPSK	668.0 - 693.0	0.045	16.552	0.074	18.70	8M98G7D
		QPSK	668.0 - 693.0	0.044	16.430	0.072	18.58	9M34G7D
		16QAM	668.0 - 693.0	0.032	15.044	0.052	17.19	9M36W7D
	5 MHz	$\pi/2$ BPSK	665.5 - 695.5	0.043	16.319	0.070	18.47	4M52G7D
		QPSK	665.5 - 695.5	0.042	16.225	0.069	18.38	4M52G7D
		16QAM	665.5 - 695.5	0.031	14.963	0.051	17.11	4M52W7D
NR Band n12	15 MHz	$\pi/2$ BPSK	706.5 - 708.5	0.039	15.872	0.063	18.02	13M5G7D
		QPSK	706.5 - 708.5	0.040	15.972	0.065	18.12	14M2G7D
		16QAM	706.5 - 708.5	0.030	14.782	0.049	16.93	14M2W7D
	10 MHz	$\pi/2$ BPSK	704.0 - 711.0	0.038	15.756	0.062	17.91	8M93G7D
		QPSK	704.0 - 711.0	0.038	15.808	0.062	17.96	9M28G7D
		16QAM	704.0 - 711.0	0.030	14.748	0.049	16.90	9M29W7D
	5 MHz	$\pi/2$ BPSK	701.5 - 713.5	0.037	15.661	0.060	17.81	4M50G7D
		QPSK	701.5 - 713.5	0.037	15.736	0.061	17.89	4M52G7D
		16QAM	701.5 - 713.5	0.029	14.638	0.048	16.79	4M51W7D

Overview Table (<1GHz Bands)

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator	
				Max. Power [W]	Max. Power [dBm]		
WCDMA1700	N/A	Spread Spectrum	1712.4 - 1752.6	0.277	24.43	4M18F9W	
LTE Band 66/4	20 MHz	QPSK	1720.0 - 1770.0	0.351	25.45	18M0G7D	
		16QAM	1720.0 - 1770.0	0.321	25.06	18M0W7D	
	15 MHz	QPSK	1717.5 - 1772.5	0.352	25.47	13M5G7D	
		16QAM	1717.5 - 1772.5	0.351	25.46	13M5W7D	
	10 MHz	QPSK	1715.0 - 1775.0	0.351	25.45	9M00G7D	
		16QAM	1715.0 - 1775.0	0.340	25.31	8M98W7D	
	5 MHz	QPSK	1712.5 - 1777.5	0.366	25.63	4M52G7D	
		16QAM	1712.5 - 1777.5	0.332	25.21	4M53W7D	
	3 MHz	QPSK	1711.5 - 1778.5	0.356	25.51	2M71G7D	
		16QAM	1711.5 - 1778.5	0.338	25.29	2M72W7D	
	1.4 MHz	QPSK	1710.7 - 1779.3	0.346	25.39	1M10G7D	
		16QAM	1710.7 - 1779.3	0.322	25.08	1M10W7D	
	NR Band n66 Ant B	40 MHz	$\pi/2$ BPSK	1730.0 - 1760.0	0.242	23.83	38M8G7D
			QPSK	1730.0 - 1760.0	0.249	23.97	38M7G7D
16QAM			1730.0 - 1760.0	0.205	23.11	38M8W7D	
30 MHz		$\pi/2$ BPSK	1725.0 - 1765.0	0.238	23.77	28M7G7D	
		QPSK	1725.0 - 1765.0	0.264	24.22	28M7G7D	
		16QAM	1725.0 - 1765.0	0.195	22.89	28M7W7D	
20 MHz		$\pi/2$ BPSK	1720.0 - 1770.0	0.197	22.95	17M9G7D	
		QPSK	1720.0 - 1770.0	0.208	23.19	19M1G7D	
		16QAM	1720.0 - 1770.0	0.162	22.10	19M0W7D	
15 MHz		$\pi/2$ BPSK	1717.5 - 1772.5	0.200	23.00	13M5G7D	
		QPSK	1717.5 - 1772.5	0.214	23.30	14M2G7D	
		16QAM	1717.5 - 1772.5	0.169	22.29	14M2W7D	
10 MHz		$\pi/2$ BPSK	1715.0 - 1775.0	0.202	23.05	8M97G7D	
		QPSK	1715.0 - 1775.0	0.206	23.14	9M33G7D	
		16QAM	1715.0 - 1775.0	0.171	22.33	9M33W7D	
5 MHz		$\pi/2$ BPSK	1712.5 - 1777.5	0.199	22.99	4M49G7D	
		QPSK	1712.5 - 1777.5	0.206	23.14	4M52G7D	
		16QAM	1712.5 - 1777.5	0.166	22.19	4M51W7D	

Overview Table (>1GHz Bands)

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n66 Ant E	40 MHz	$\pi/2$ BPSK	1730.0 - 1760.0	0.188	22.74	38M8G7D
		QPSK	1730.0 - 1760.0	0.175	22.44	38M7G7D
		16QAM	1730.0 - 1760.0	0.136	21.34	38M8W7D
	30 MHz	$\pi/2$ BPSK	1725.0 - 1765.0	0.205	23.13	28M8G7D
		QPSK	1725.0 - 1765.0	0.191	22.81	28M7G7D
		16QAM	1725.0 - 1765.0	0.106	20.27	28M7W7D
	20 MHz	$\pi/2$ BPSK	1720.0 - 1770.0	0.201	23.04	18M0G7D
		QPSK	1720.0 - 1770.0	0.173	22.38	19M0G7D
		16QAM	1720.0 - 1770.0	0.106	20.27	19M0W7D
	15 MHz	$\pi/2$ BPSK	1717.5 - 1772.5	0.207	23.16	13M5G7D
		QPSK	1717.5 - 1772.5	0.187	22.71	14M2G7D
		16QAM	1717.5 - 1772.5	0.130	21.15	14M2W7D
	10 MHz	$\pi/2$ BPSK	1715.0 - 1775.0	0.211	23.24	8M98G7D
		QPSK	1715.0 - 1775.0	0.193	22.85	9M35G7D
		16QAM	1715.0 - 1775.0	0.119	20.74	9M32W7D
	5 MHz	$\pi/2$ BPSK	1712.5 - 1777.5	0.206	23.14	4M48G7D
		QPSK	1712.5 - 1777.5	0.198	22.96	4M52G7D
		16QAM	1712.5 - 1777.5	0.122	20.85	4M50W7D

Overview Table (>1GHz Bands continued)

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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 PCTEST Test Location

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

1.3 Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.

- PCTEST 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.
- PCTEST 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).
- PCTEST facility is a registered (2451B) test laboratory with the site description on file with ISED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMF926U**. 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.: 0224M, 0943M, 0994M, 0867M, 1121M, 1008M, 0131M, 0209M, 0113M, 0429M, 0405M

2.2 Device Capabilities

This device contains the following capabilities:

800/850/1900 CDMA/EvDO Rev0/A, 1x Advanced (BC0, BC1, BC10), 850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR, 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer, UWB

LTE Band 66 (1710 - 1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 - 1755 MHz). Therefore, test data provided in this report covers Band 4 as well as Band 66.

Sub 6GHz NR Band n12 (699 – 716 MHz) operates using 15kHz Subcarrier Spacing with both CP-OFDM and DFT-s OFDM waveforms. The band supports $\pi/2$ -BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulation. The test data provided in this report represents the worst case configuration.

Sub 6GHz NR Band n71 (663 – 698 MHz) operates using 15kHz Subcarrier Spacing with both CP-OFDM and DFT-s OFDM waveforms. The band supports $\pi/2$ -BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulation. The test data provided in this report represents the worst case configuration.

Sub 6GHz NR Band n66 (1710 – 1780 MHz) operates using 15kHz Subcarrier Spacing with both CP-OFDM and DFT-s OFDM waveforms. The band supports $\pi/2$ -BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulation. The test data provided in this report represents the worst case configurations.

2.3 Test Configuration

The EUT was tested per the guidance of ANSI/TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section TEST RESULTS of this test report for a description of the radiated and antenna port conducted emissions tests.

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

This device supports two additional antenna configurations for LTE Low bands [AFS operation]: open is with two antennas transmitting from one feed (AntA + AntB), and one is with a singular antenna transmitting (AntA). Both configurations are tested, and the worst case radiated emissions data is shown in this report.

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 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 document titled “Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards” (ANSI/TIA-603-E-2016) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

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 wooden turntable 80cm above the ground plane and 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. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer “Channel Power” function with the integration band set to the emissions’ occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168 D01 v03r01.

Per the guidance of ANSI/TIA-603-E-2016, a half-wave dipole is then 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 fundamental radiated power measurements, the guidance of KDB 971168 D01 v03r01 is used to record the EUT power level that is subsequently matched via the aforementioned substitution method given in ANSI/TIA-603-E-2016.

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 474788 D01.

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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

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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
-	AP2	EMC Cable and Switch System	9/9/2020	Annual	9/9/2021	AP2
-	AP1	EMC Cable and Switch System	9/10/2020	Annual	9/10/2021	AP1
-	LTx4	Licensed Transmitter Cable Set	9/16/2020	Annual	9/16/2021	LTx4
-	LTx5	Licensed Transmitter Cable Set	9/16/2020	Annual	9/16/2021	LTx5
Keysight Technologies	N9020A	MXA Signal Analyzer	8/14/2020	Annual	8/14/2021	US46470561
Keysight Technologies	N9038A	MXE EMI Receiver	8/11/2020	Annual	8/11/2021	MY51210133
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	8/17/2020	Annual	8/17/2021	MY52350166
Agilent	E5515C	Wireless Communications Test Set		N/A		GB45360985
Agilent	E5515C	Wireless Communications Test Set		N/A		GB46310798
Anritsu	MT8821C	Radio Communication Analyzer		N/A		6201381794
Anritsu	MT8821C	Radio Communication Analyzer		N/A		6200901190
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	10/10/2019	Biennial	10/10/2021	121034
Emco	3115	Horn Antenna (1-18GHz)	6/18/2020	Biennial	6/18/2022	9704-5182
Espec	ESX-2CA	Environmental Chamber	8/27/2020	Annual	8/27/2022	17620
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	3/12/2020	Biennial	3/12/2022	128337
Keysight Technologies	N9030B	PXA Signal Analyzer, Multi-touch	9/17/2020	Annual	9/17/2021	MY57141001
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A		11208010032
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A		11403100002
Rohde & Schwarz	CMW500	Radio Communication Tester		N/A		100976
Rohde & Schwarz	CMW500	Radio Communication Tester		N/A		112347
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	7/15/2020	Annual	7/15/2021	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	9/9/2020	Annual	9/9/2021	100348
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	8/10/2020	Annual	8/10/2021	103200
Sunol	DRH-118	Horn Antenna (1-18GHz)	10/3/2019	Biennial	10/3/2021	A050307
Sunol	DRH-118	Horn Antenna (1-18 GHz)	8/27/2019	Biennial	8/27/2021	A042511
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	7/27/2020	Biennial	7/27/2022	A051107

Table 5-1. Test Equipment

Notes:

Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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6.0 SAMPLE CALCULATIONS

Emission Designator

$\pi/2$ -BPSK Modulation

Emission Designator = 8M52G7D

NR BW = 8.52 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

Spurious Radiated Emission – LTE Band

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

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMF926U
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE/NR/WCDMA

Test Condition	Test Description	FCC Part Section(s)	RSS Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	RSS-Gen(6.7)	N/A	PASS	Section 7.4
	Conducted Band Edge / Spurious Emissions	2.1051, 27.53	RSS-139(6.6)	> 43 + 10log10(P[Watts]) at Band Edge and for all out-of-band emissions	PASS	Sections 7.5, 7.6
	Transmitter Conducted Output Power	2.1046	RSS-139(4.1)	N/A	PASS	Section 7.2, RF Exposure Report
	Frequency Stability	2.1055, 27.54	RSS-139(6.4)	Fundamental emissions stay within authorized frequency block	PASS	Section 7.10
RADIATED	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 71)	27.50(b)(10)	RSS-130(4.4)	< 3 Watts max. ERP < 5 Watts max. EIRP	PASS	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n71)				PASS	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 12/17)				PASS	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n12)				PASS	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 13)	27.50(c)(10)	RSS-130(4.4)	< 3 Watts max. ERP < 5 Watts max. EIRP	PASS	Section 7.8
	Equivalent Isotropic Radiated Power (WCDMA)	27.50(d)(4)	RSS-139(6.5)	< 1 Watts max. EIRP	PASS	Section 7.8
	Equivalent Isotropic Radiated Power (CDMA)				PASS	Section 7.8
	Equivalent Isotropic Radiated Power (NR Band n66)				PASS	Section 7.8
	Equivalent Isotropic Radiated Power (LTE Band 4/66)				PASS	Section 7.8
	Radiated Spurious Emissions (LTE Band 13)	2.1053, 27.53(f)	RSS-139(6.6)	< -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 - 1610 MHz	PASS	Section 7.9
	Radiated Spurious Emissions	2.1053, 27.53	RSS-139(6.6)	> 43 + 10 log10 (P[Watts]) for all out-of-band emissions	PASS	Section 7.9

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 shown in Section 7.0 were taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST 2G/3G Automation Version 4.2

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7.2 Conducted Power Output Data

Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers is measured by means of a calibrated spectrum analyzer. 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

KDB 971168 D01 v03r01 – Section 6.0

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.

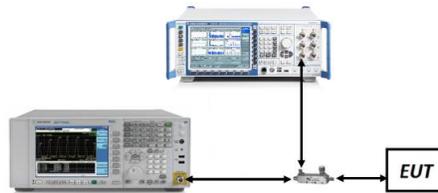


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. Uplink carrier aggregation is only supported in this EUT while operating in Power Class 3.
2. For ULCA, conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
3. For ULCA, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz.
4. All other conducted power measurements are contained in the RF exposure report for this filing.

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	132072	1720.0	1 / 50	24.46
		132322	1745.0	1 / 50	24.32
		132572	1770.0	1 / 0	24.11
	16-QAM	132072	1720.0	1 / 50	23.64
15 MHz	QPSK	132047	1717.5	1 / 37	24.50
		132322	1745.0	1 / 37	24.33
		132597	1772.5	1 / 0	23.98
	16-QAM	132047	1717.5	1 / 37	24.04
10 MHz	QPSK	132022	1715.0	1 / 25	24.45
		132322	1745.0	1 / 25	24.35
		132622	1775.0	1 / 25	24.11
	16-QAM	132022	1715.0	1 / 25	23.89
5 MHz	QPSK	131997	1712.5	1 / 0	24.67
		132322	1745.0	1 / 12	24.42
		132647	1777.5	1 / 0	24.11
	16-QAM	131997	1712.5	1 / 0	23.79
3 MHz	QPSK	131987	1711.5	1 / 0	24.54
		132322	1745.0	1 / 0	24.34
		132657	1778.5	1 / 0	24.07
	16-QAM	131987	1711.5	1 / 0	23.87
1.4 MHz	QPSK	131979	1710.7	1 / 5	24.42
		132322	1745.0	1 / 3	24.38
		132665	1779.3	1 / 5	23.91
	16-QAM	132322	1745.0	1 / 3	23.70

Table 7-2. Conducted Max Powers (LTE Band 66 - ANT E)

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	π/2 BPSK	346000	1730.0	1 / 54	24.19
		349000	1745.0	1 / 108	23.41
		352000	1760.0	1 / 54	24.24
	QPSK	346000	1730.0	1 / 54	24.19
		349000	1745.0	1 / 108	23.48
		352000	1760.0	1 / 54	24.36
	16-QAM	352000	1760.0	1 / 54	23.47
30 MHz	π/2 BPSK	345000	1725.0	1 / 40	24.48
		349000	1745.0	1 / 80	24.25
		353000	1765.0	1 / 40	24.33
	QPSK	345000	1725.0	1 / 40	24.23
		349000	1745.0	1 / 80	24.25
		353000	1765.0	1 / 40	24.45
	16-QAM	349000	1745.0	1 / 80	23.61
20 MHz	π/2 BPSK	344000	1720.0	1 / 79	24.30
		349000	1745.0	1 / 79	24.17
		354000	1770.0	1 / 26	24.10
	QPSK	344000	1720.0	1 / 79	23.39
		349000	1745.0	1 / 79	23.83
		354000	1770.0	1 / 26	23.12
	16-QAM	349000	1745.0	1 / 79	22.49
15 MHz	π/2 BPSK	343500	1717.5	1 / 20	24.37
		349000	1745.0	1 / 58	24.28
		354500	1772.5	1 / 20	24.13
	QPSK	343500	1717.5	1 / 20	23.93
		349000	1745.0	1 / 58	24.15
		354500	1772.5	1 / 20	23.56
	16-QAM	343500	1717.5	1 / 20	23.25
10 MHz	π/2 BPSK	343000	1715.0	1 / 38	24.38
		349000	1745.0	1 / 13	24.36
		355000	1775.0	1 / 13	24.15
	QPSK	343000	1715.0	1 / 38	23.88
		349000	1745.0	1 / 13	24.30
		355000	1775.0	1 / 13	23.60
	16-QAM	343000	1715.0	1 / 38	22.85
5 MHz	π/2 BPSK	342500	1712.5	1 / 18	24.26
		349000	1745.0	1 / 12	24.27
		355500	1777.5	1 / 12	24.00
	QPSK	342500	1712.5	1 / 18	23.92
		349000	1745.0	1 / 12	24.40
		355500	1777.5	1 / 12	23.10
	16-QAM	349000	1745.0	1 / 12	23.14

Table 7-3. Conducted Max Powers (NR Band n66 - ANT E)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.3 ULCA Conducted Powers

Test Overview

The EUT is set up to transmit two contiguous LTE channels. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels 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. The worst case (highest) powers were found while operating with QPSK modulation with both carriers set to transmit using 1RB.

Test Setup

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

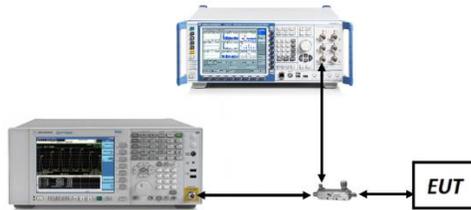


Figure 7-2. Test Instrument & Measurement Setup

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency		UL # RB	UL RB Offset
Max	LTE B66	20MHz + 20MHz	QPSK	132072	1720.0	1	99	QPSK	132270	1739.8	1	0	24.05
				132322	1745.0	1	99		132520	1764.8	1	0	23.93
				132572	1770.0	1	0		132374	1750.2	1	99	24.09
			QPSK	132572	1770	100	0	QPSK	132374	1750.2	100	0	23.28
			16-QAM	132572	1770	100	0	16-QAM	132374	1750.2	100	0	22.26
			64-QAM	132572	1770	100	0	64-QAM	132374	1750.2	100	0	23.48

Table 7-4. Conducted Powers (Uplink CA LTE Band 66B/C)

FCC ID: A3LSMF926U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.4 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

KDB 971168 D01 v03r01 – Section 4.2

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.

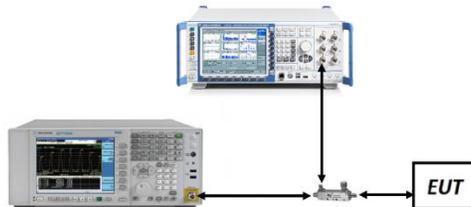


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 71

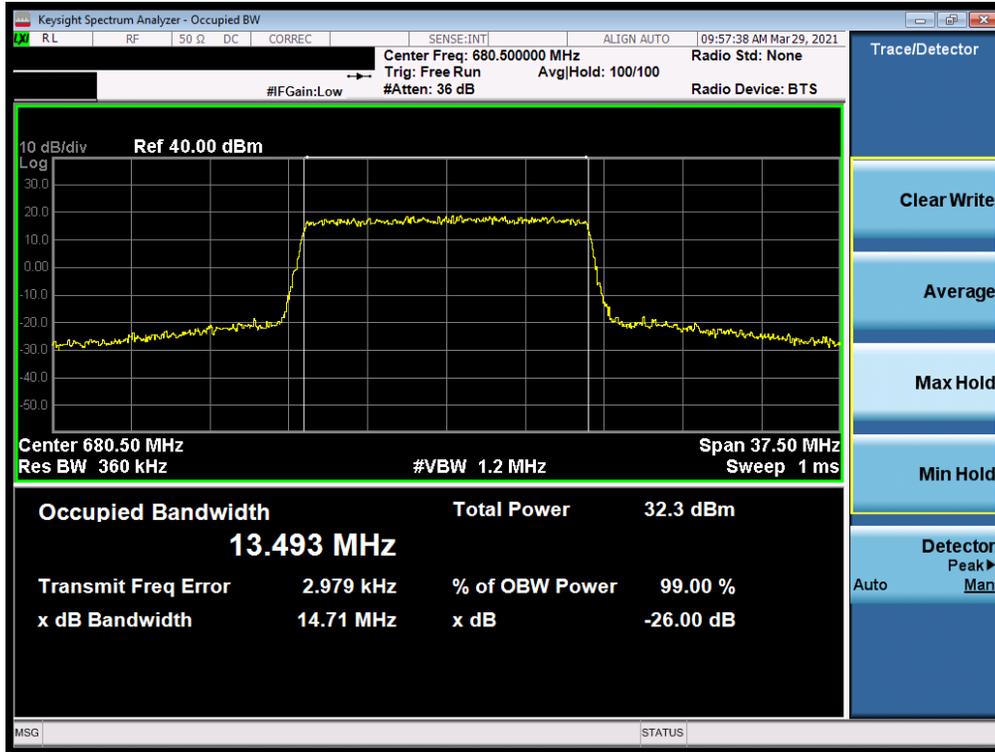


Plot 7-1. Occupied Bandwidth Plot (LTE Band 71 - 20MHz QPSK - Full RB)

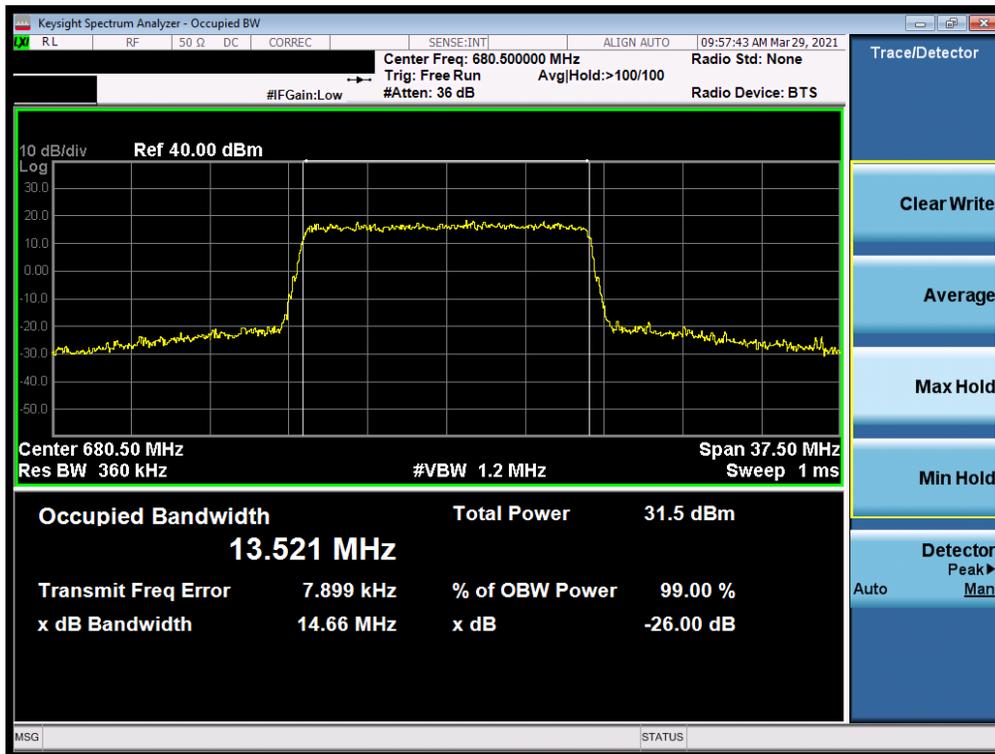


Plot 7-2. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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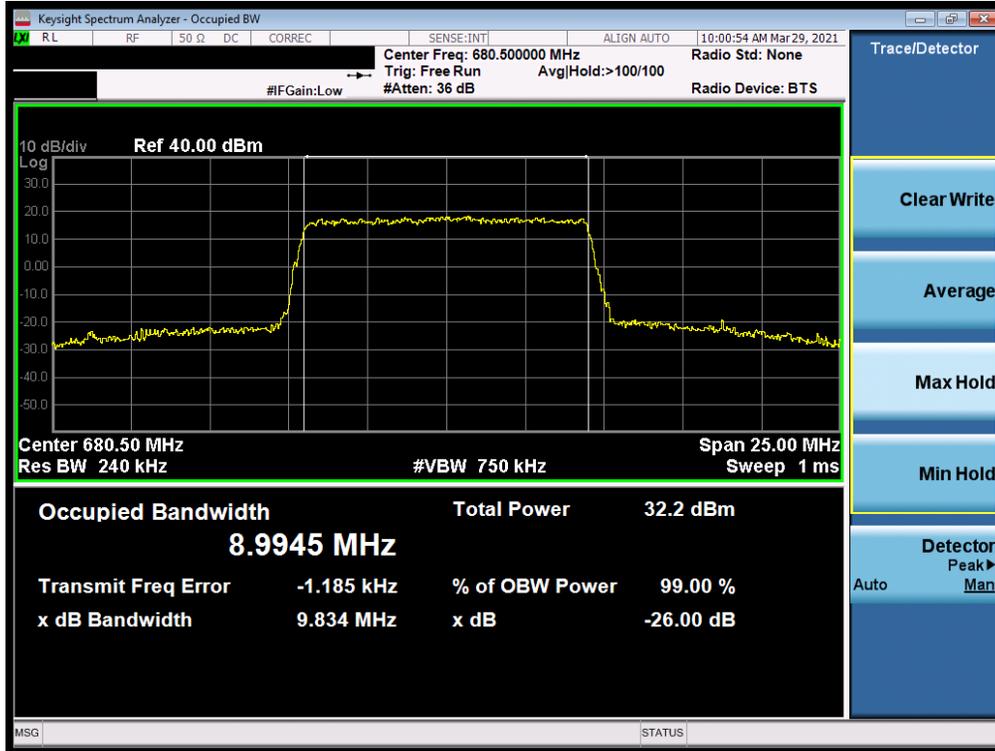


Plot 7-3. Occupied Bandwidth Plot (LTE Band 71 - 15MHz QPSK - Full RB)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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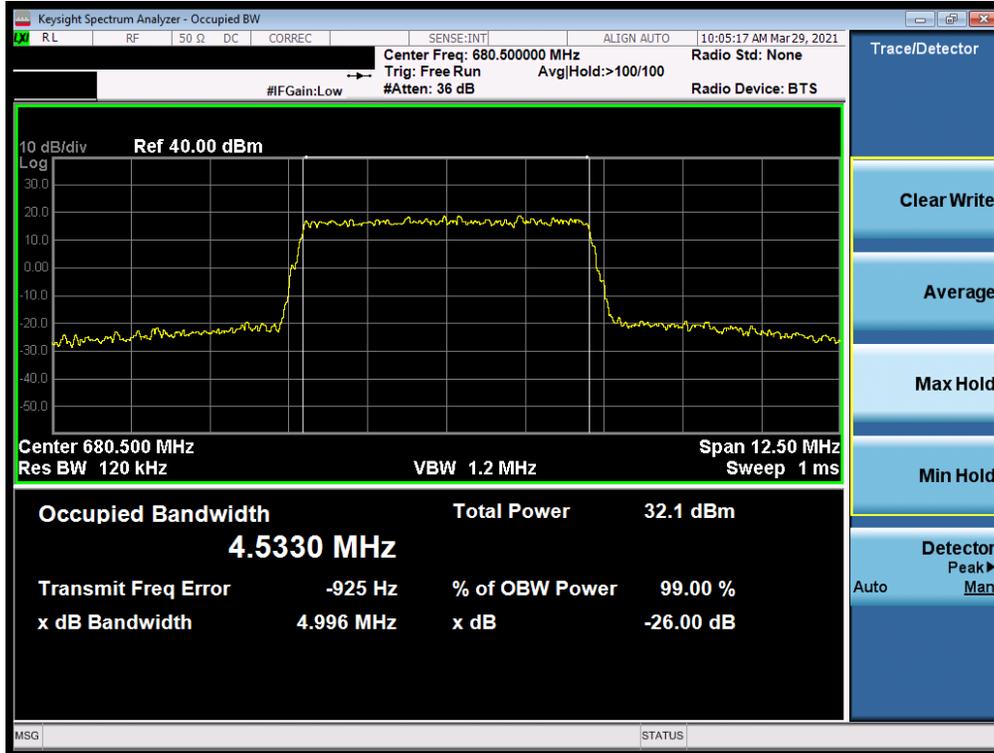


Plot 7-5. Occupied Bandwidth Plot (LTE Band 71 - 10MHz QPSK - Full RB)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-7. Occupied Bandwidth Plot (LTE Band 71 - 5MHz QPSK - Full RB)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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LTE Band 12

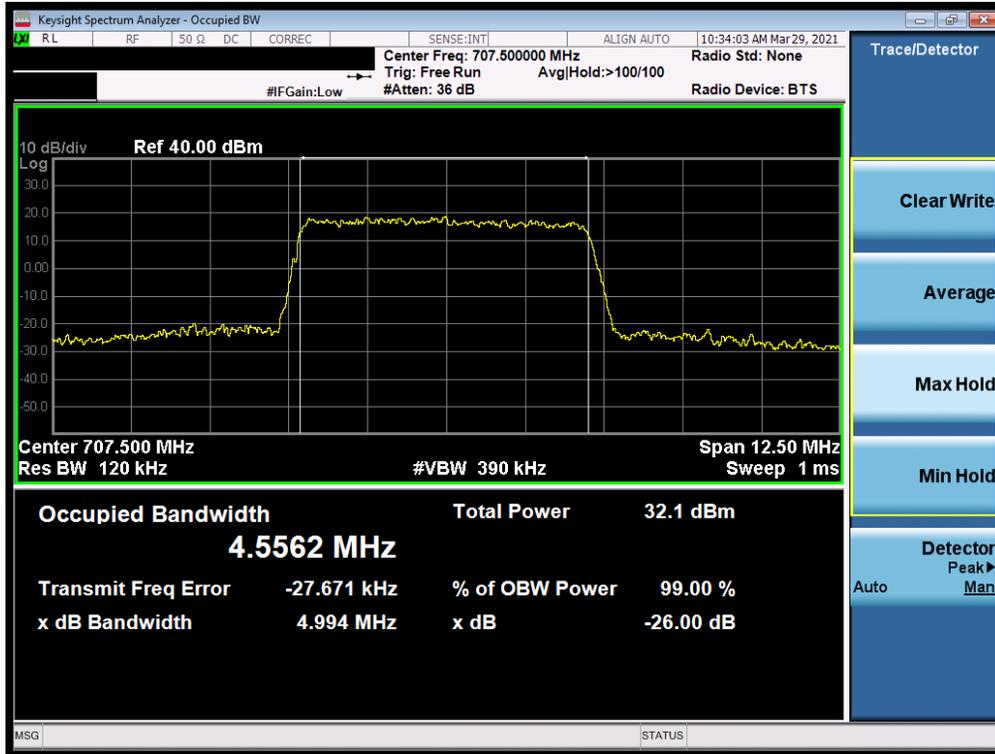


Plot 7-9. Occupied Bandwidth Plot (LTE Band 12 - 10MHz QPSK - Full RB)



Plot 7-10. Occupied Bandwidth Plot (LTE Band 12 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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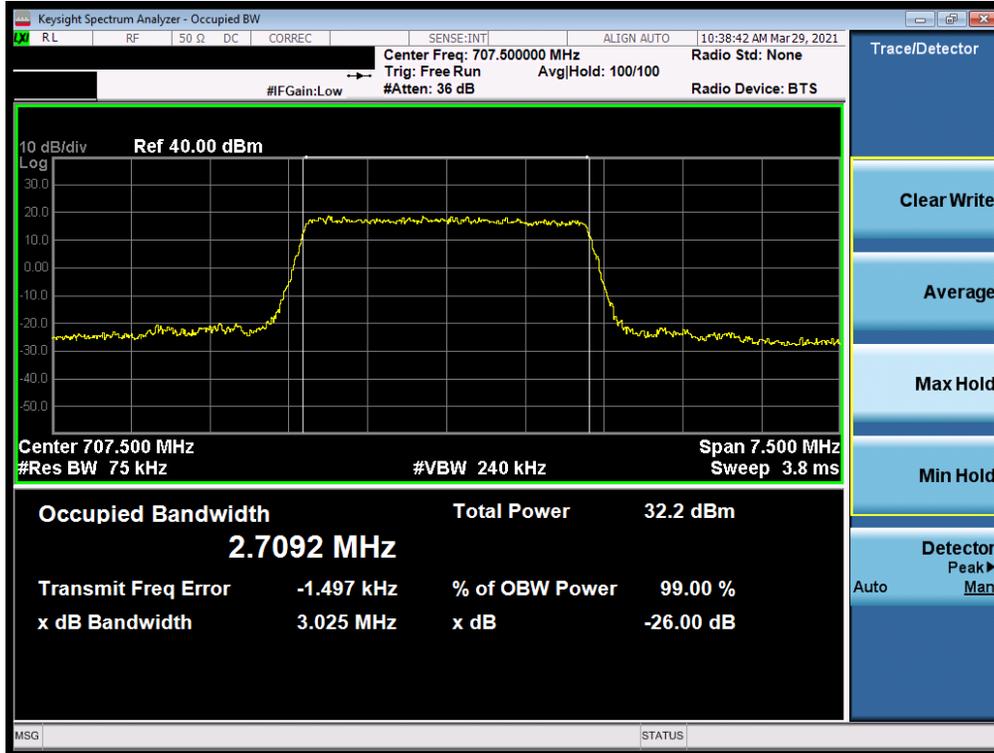


Plot 7-11. Occupied Bandwidth Plot (LTE Band 12 - 5MHz QPSK - Full RB)

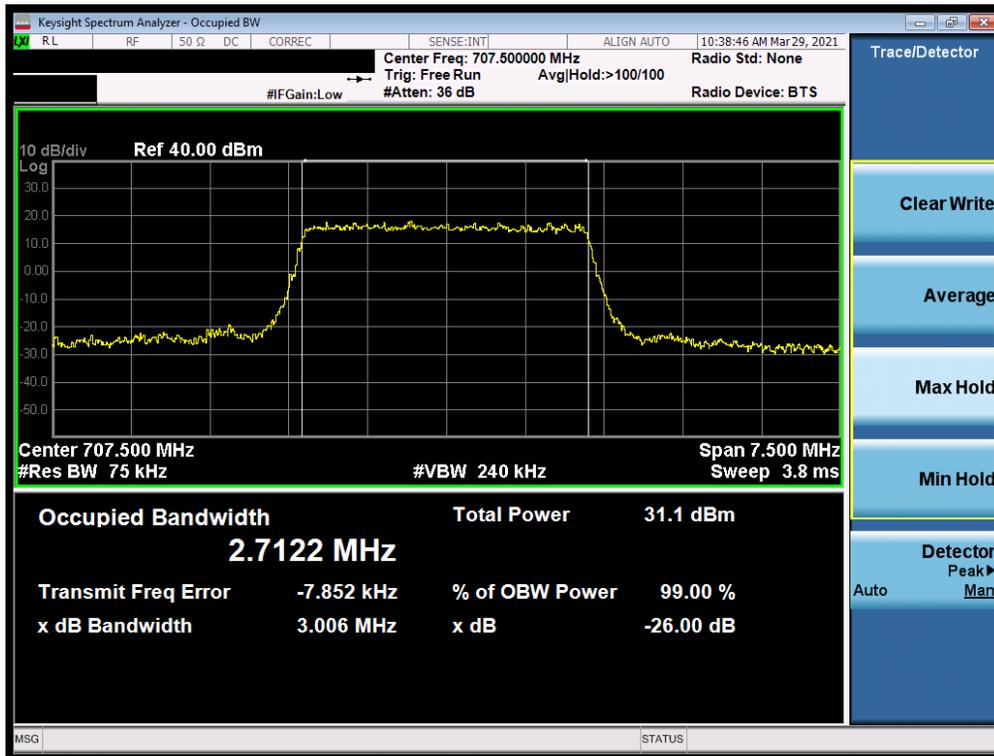


Plot 7-12. Occupied Bandwidth Plot (LTE Band 12 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 12 - 3MHz QPSK - Full RB)

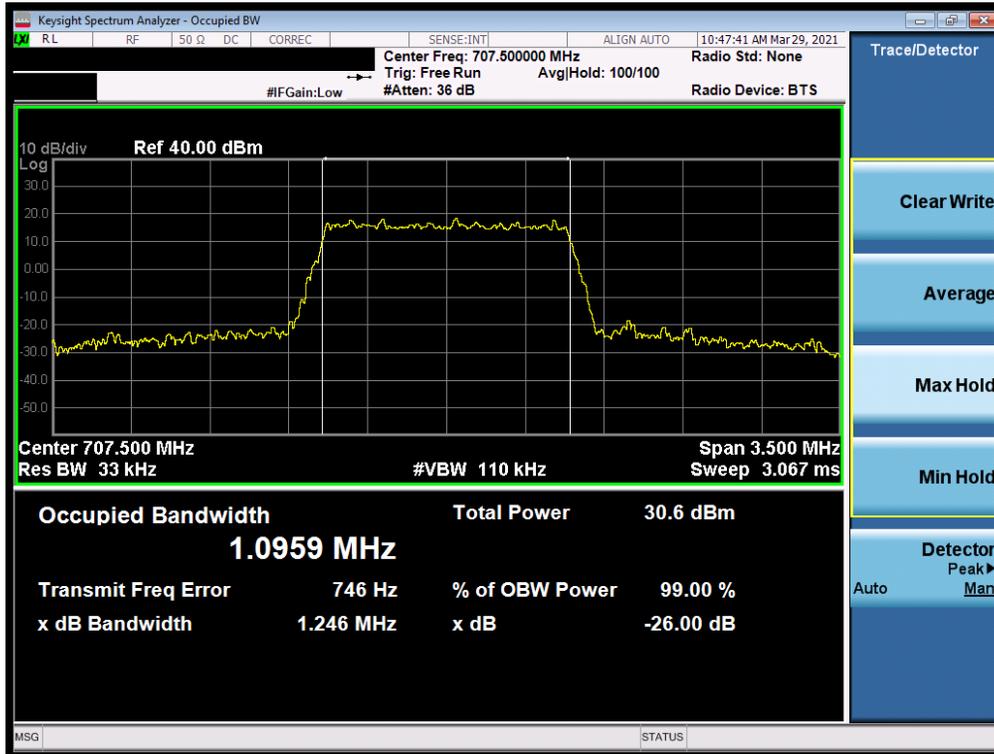


Plot 7-14. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-15. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz QPSK - Full RB)



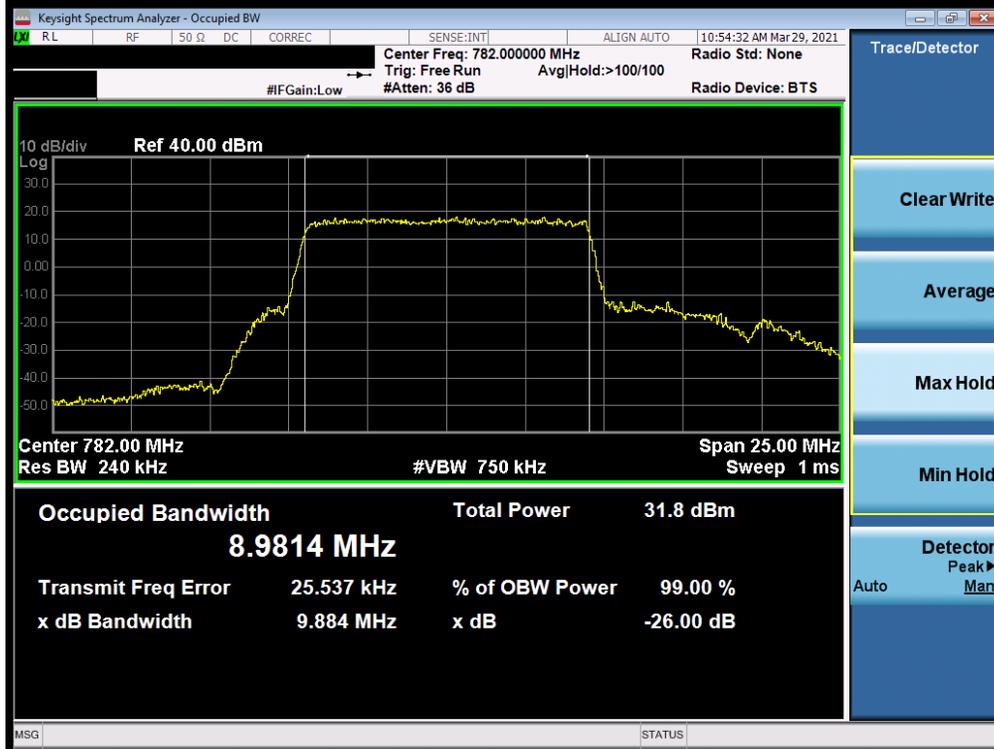
Plot 7-16. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 25 of 276

LTE Band 13

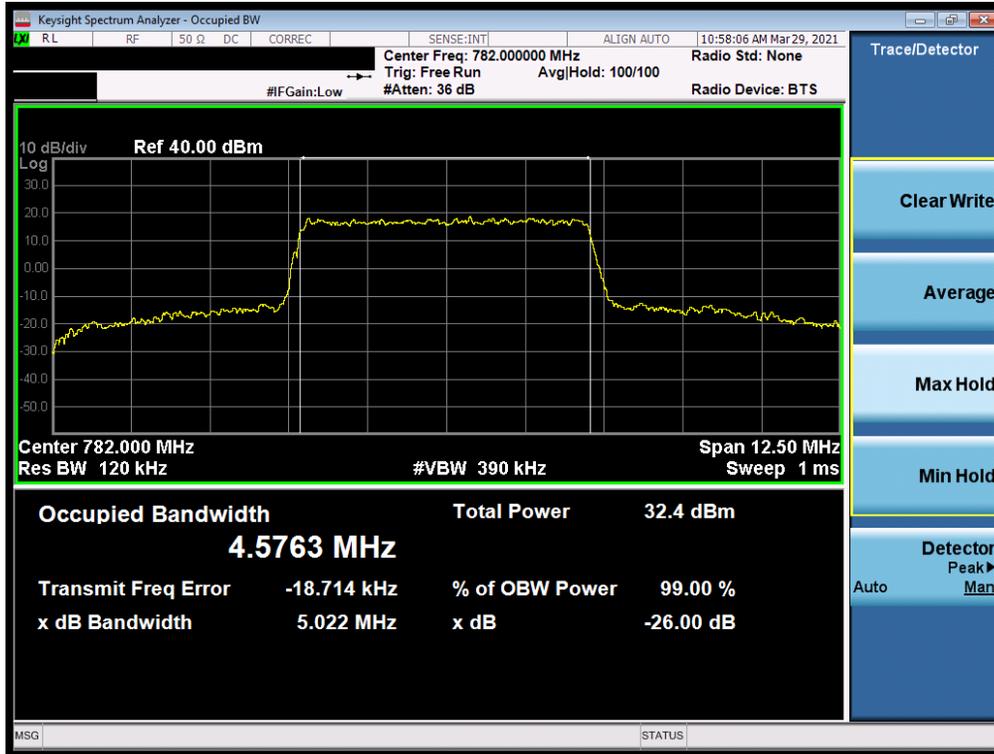


Plot 7-17. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB)



Plot 7-18. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-19. Occupied Bandwidth Plot (LTE Band 13 - 5MHz QPSK - Full RB)



Plot 7-20. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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NR Band n71



Plot 7-21. Occupied Bandwidth Plot (NR Band n71 - 20.0MHz DFT-s-OFDM BPSK - Full RB)

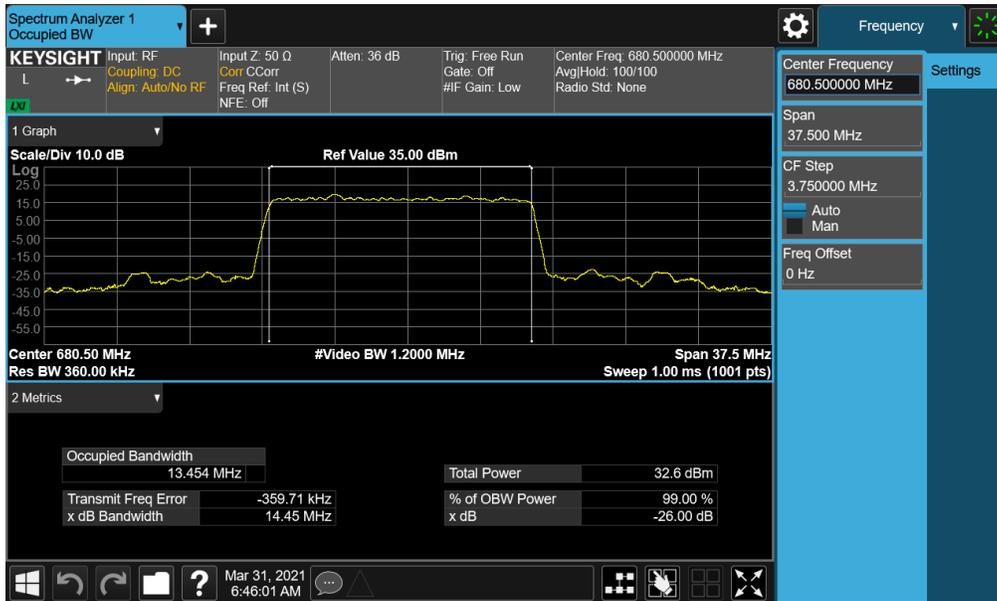


Plot 7-22. Occupied Bandwidth Plot (NR Band n71 - 20MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 28 of 276



Plot 7-23. Occupied Bandwidth Plot (NR Band n71 - 20MHz CP-OFDM 16-QAM - Full RB)

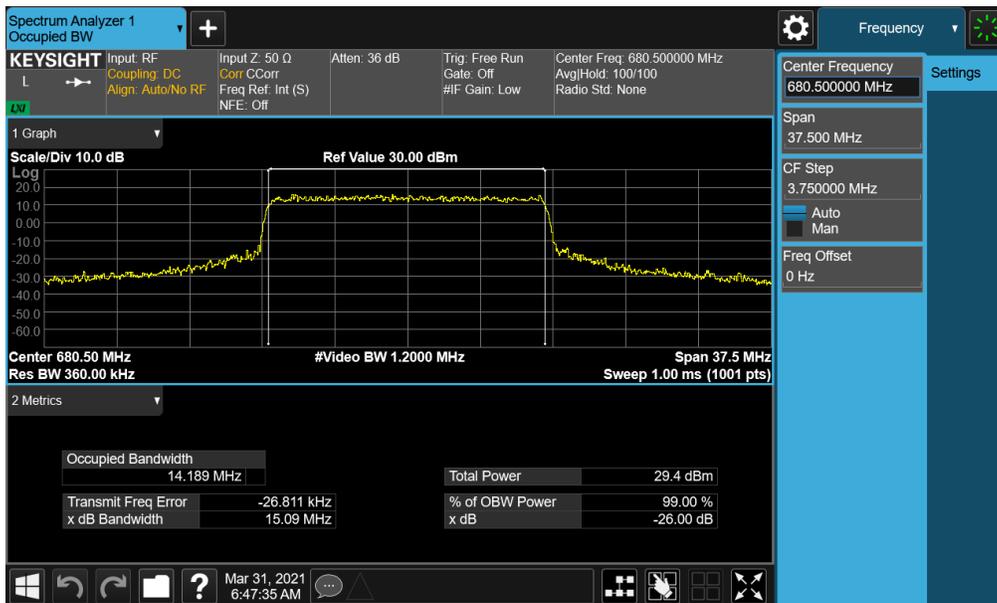


Plot 7-24. Occupied Bandwidth Plot (NR Band n71 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 29 of 276

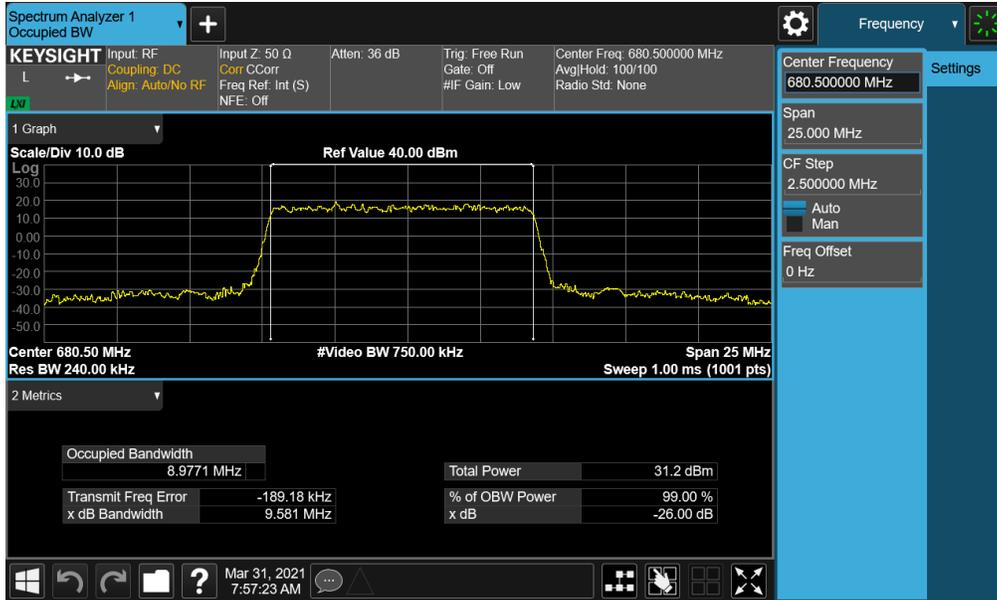


Plot 7-25. Occupied Bandwidth Plot (NR Band n71 - 15MHz QPSK - Full RB)



Plot 7-26. Occupied Bandwidth Plot (NR Band n71 - 15MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 30 of 276

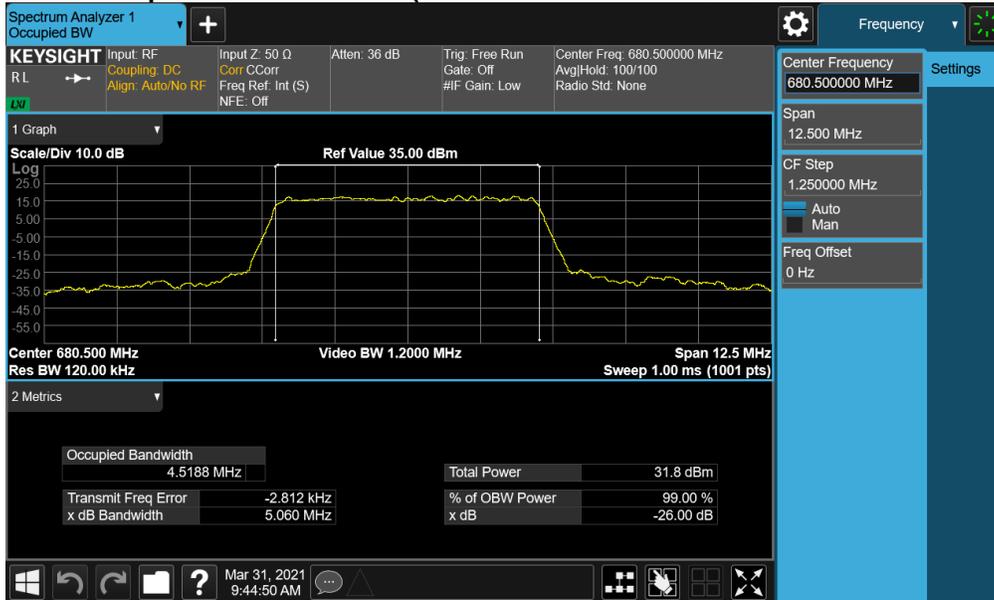


Plot 7-27. Occupied Bandwidth Plot (NR Band n71 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

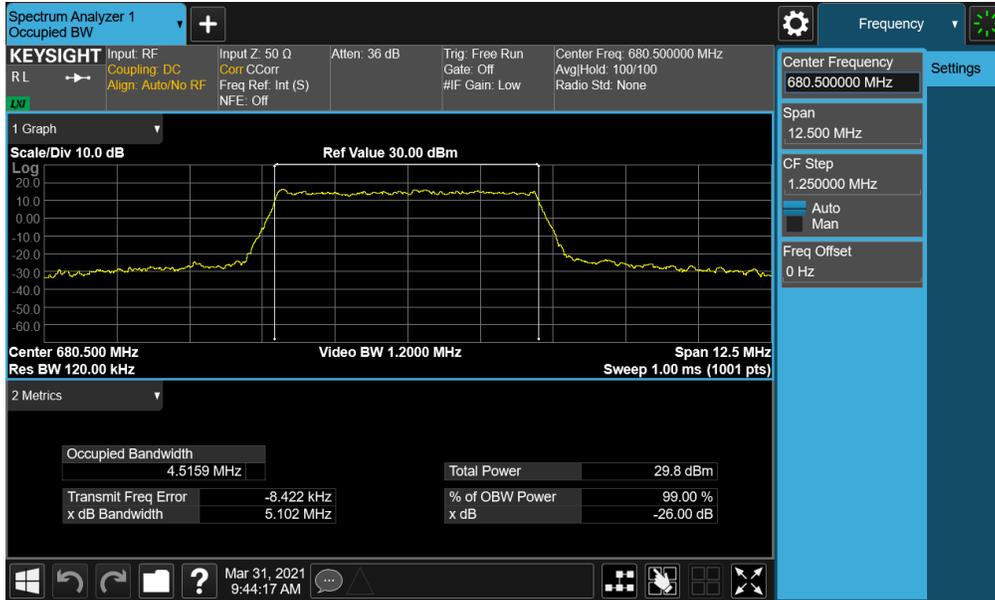


Plot 7-28. Occupied Bandwidth Plot (NR Band n71 - 10MHz CP-OFDM QPSK - Full RB)

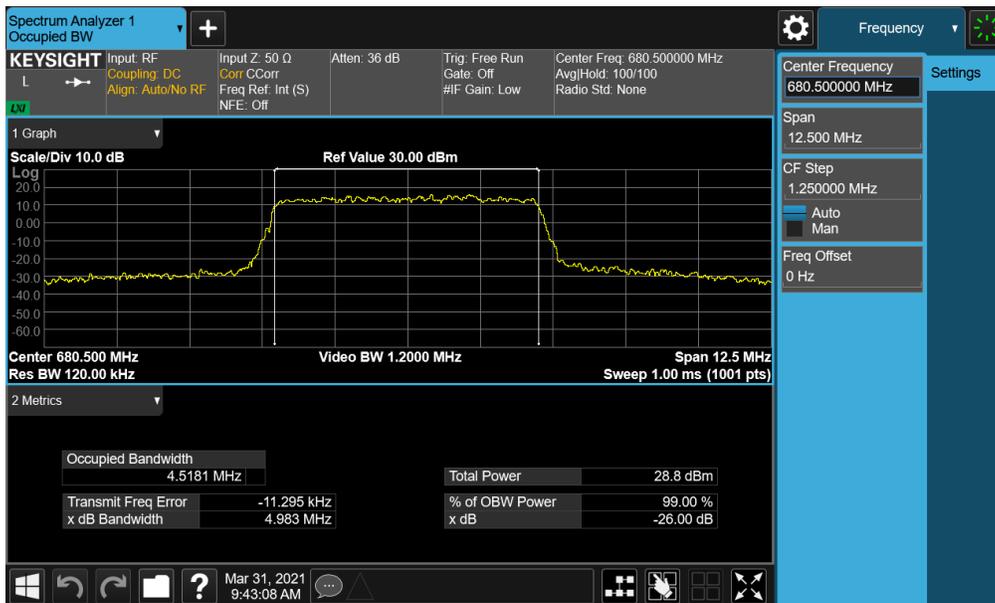
FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 31 of 276



FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 32 of 276



Plot 7-31. Occupied Bandwidth Plot (NR Band n71 - 5MHz CP-OFDM QPSK - Full RB)



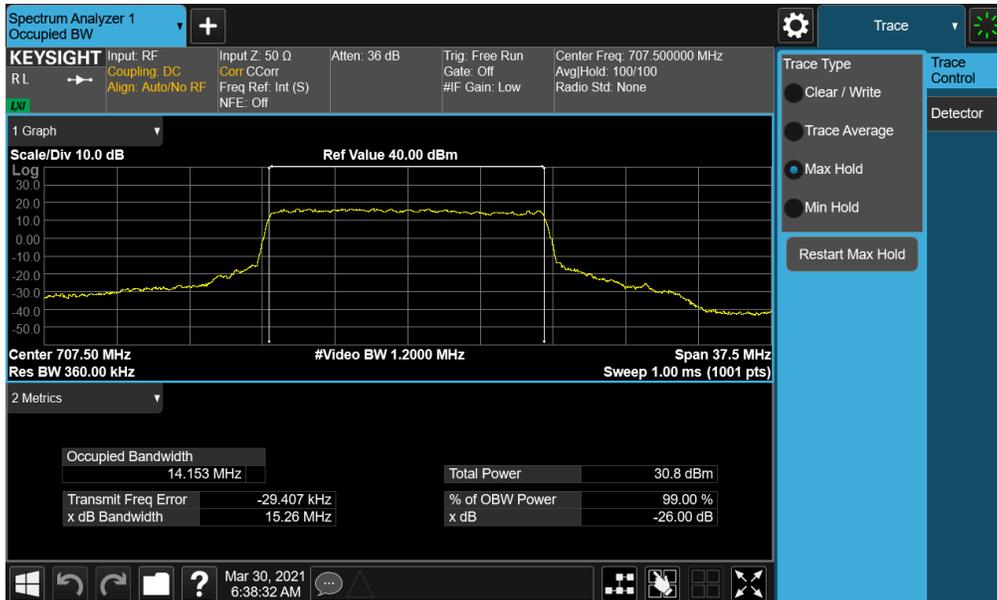
Plot 7-32. Occupied Bandwidth Plot (NR Band n71 - 5MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 33 of 276

NR Band n12



Plot 7-33. Occupied Bandwidth Plot (NR Band n12 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

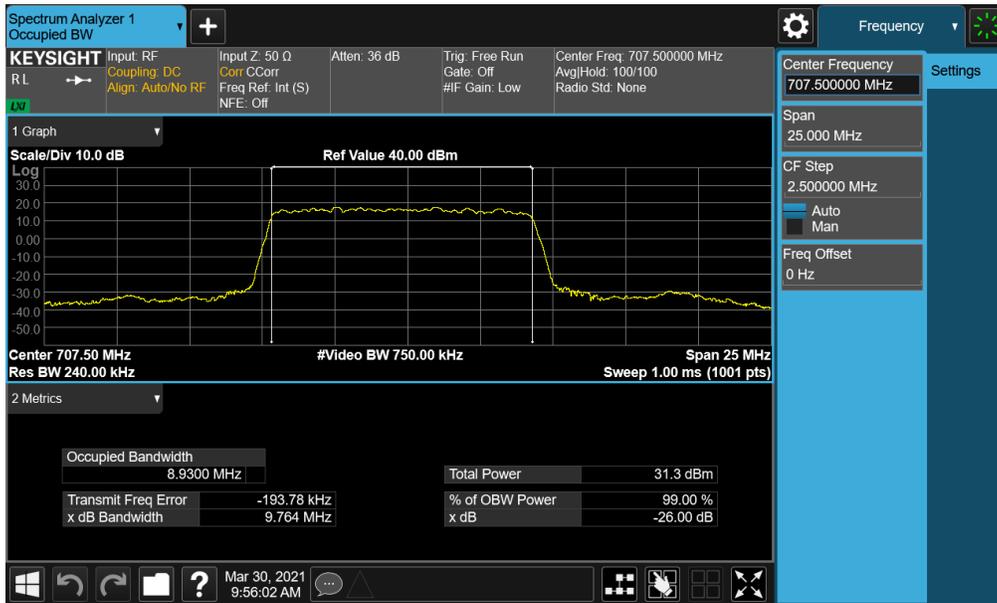


Plot 7-34. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 34 of 276



Plot 7-35. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM 16-QAM - Full RB)

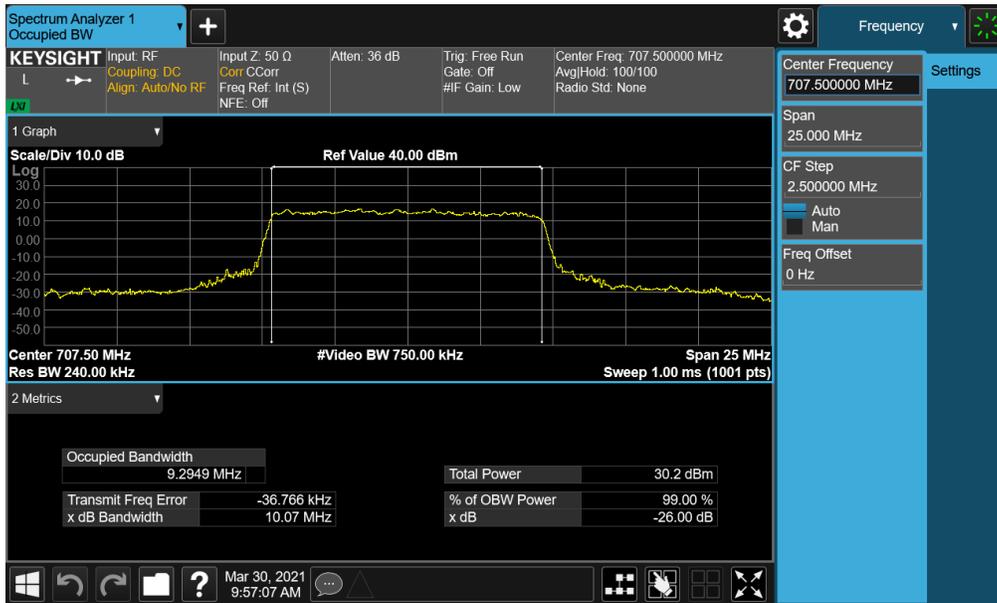


Plot 7-36. Occupied Bandwidth Plot (NR Band n12 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 35 of 276

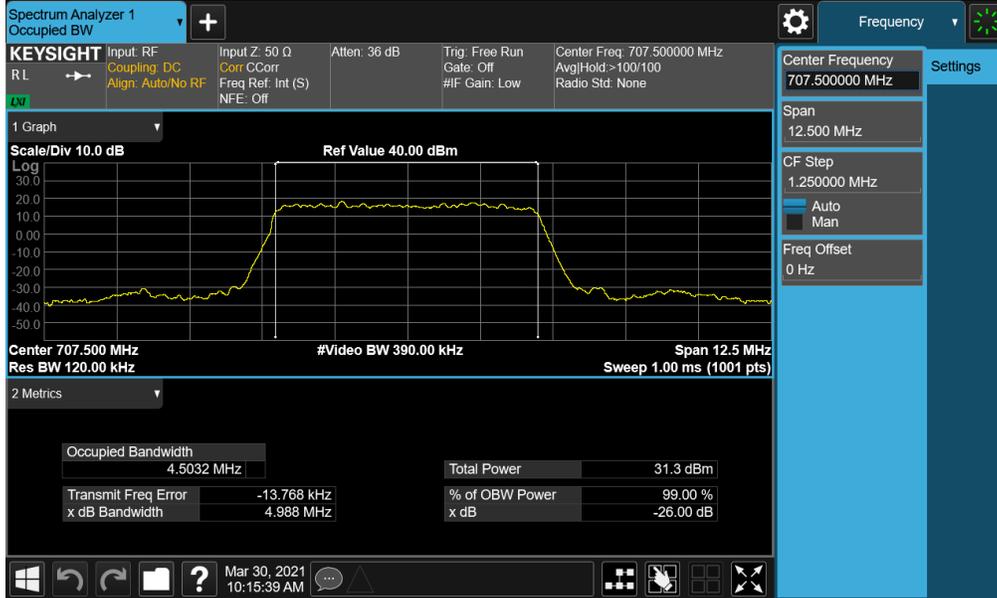


Plot 7-37. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM QPSK - Full RB)

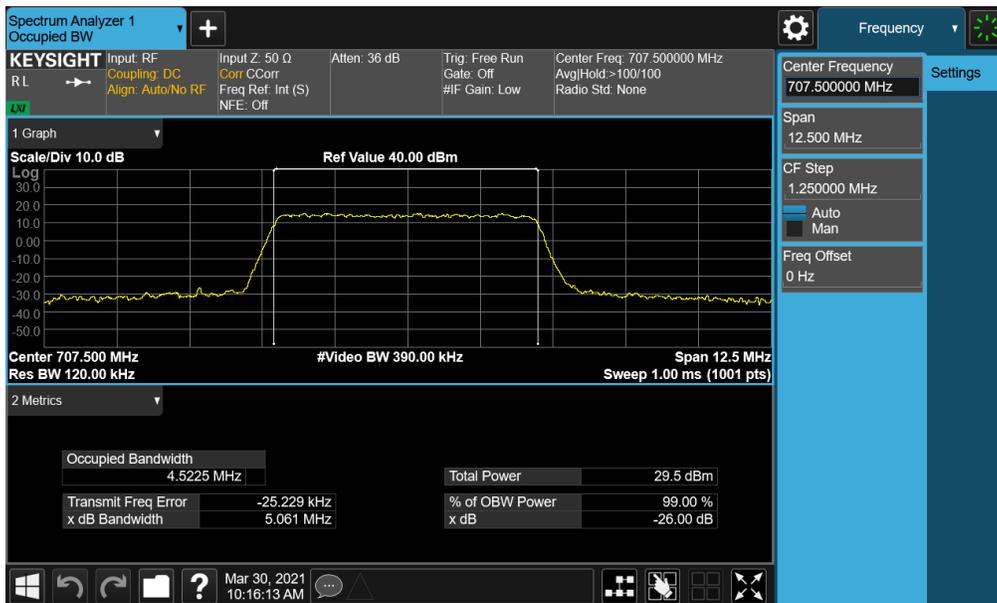


Plot 7-38. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 36 of 276

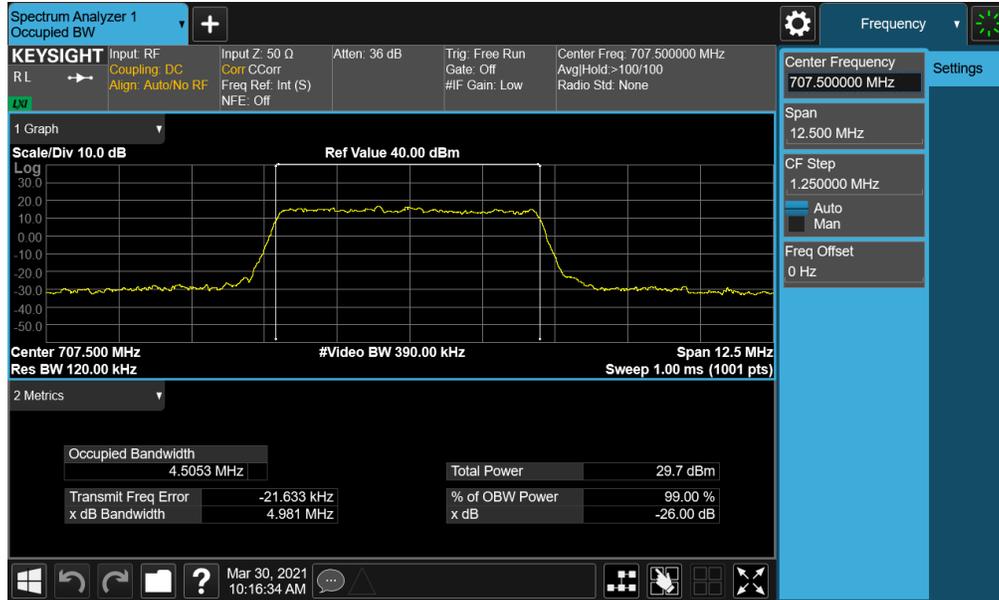


Plot 7-39. Occupied Bandwidth Plot (NR Band n12 - 5.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-40. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM QPSK - Full RB)

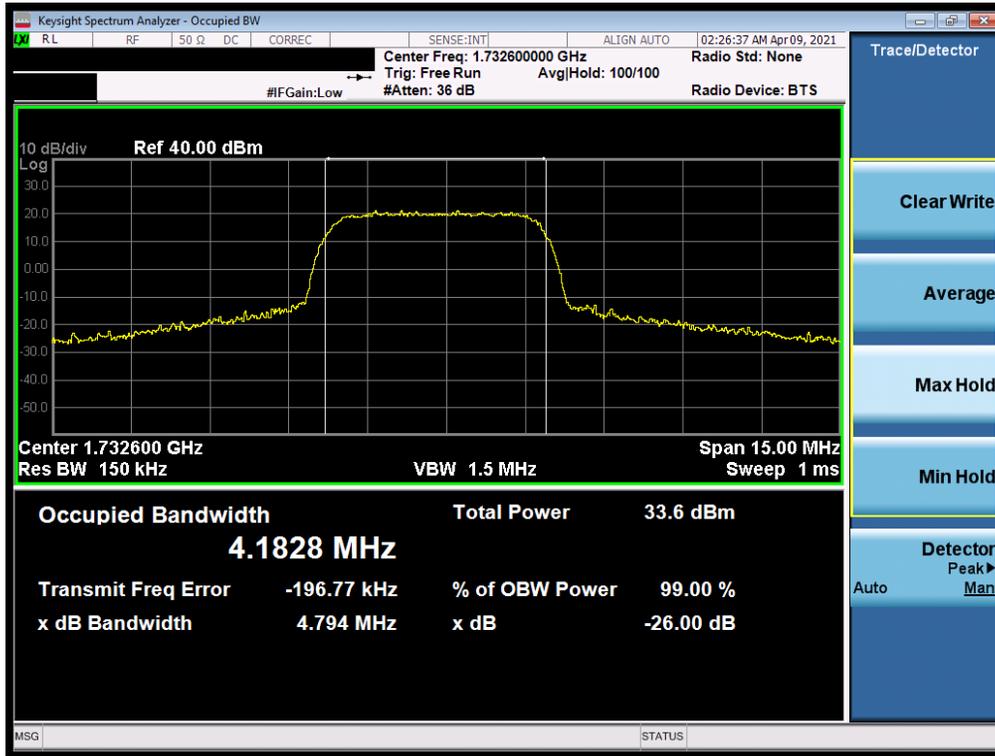
FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 37 of 276



Plot 7-41. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 38 of 276

WCDMA AWS



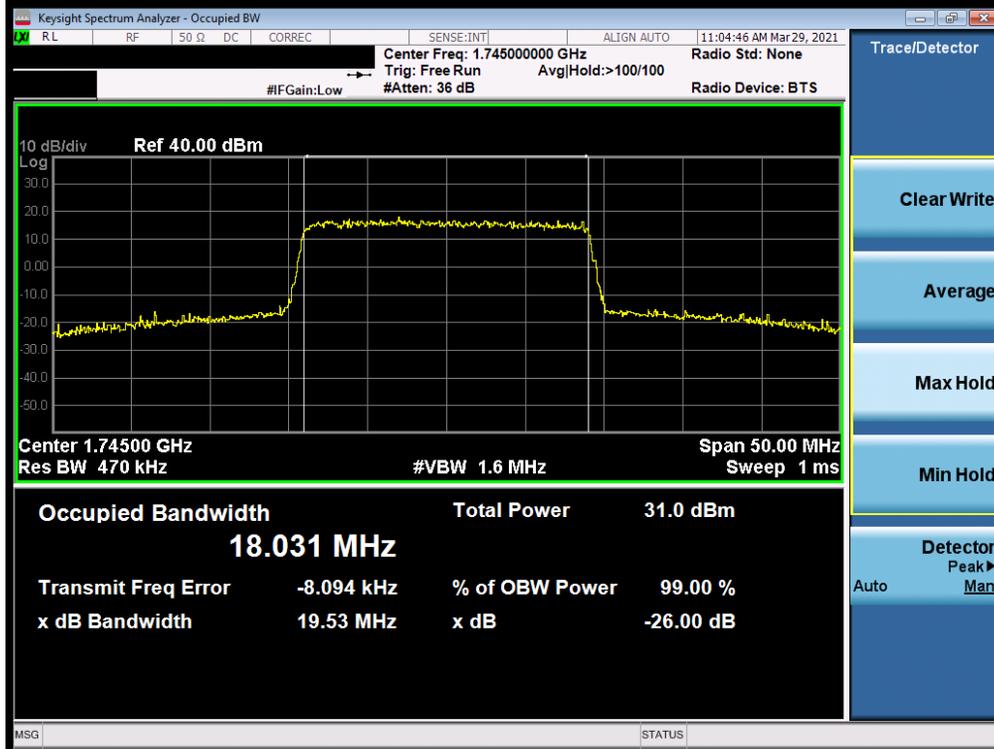
Plot 7-42. Occupied Bandwidth Plot (WCDMA, Ch. 1413)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 39 of 276

LTE Band 66/4

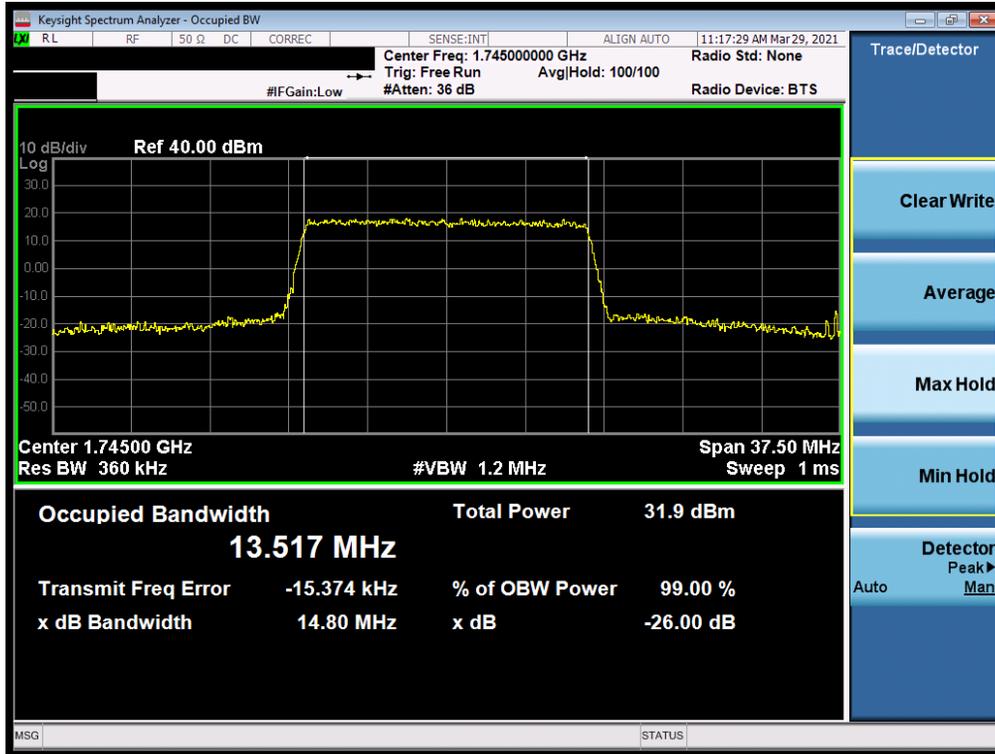


Plot 7-43. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)

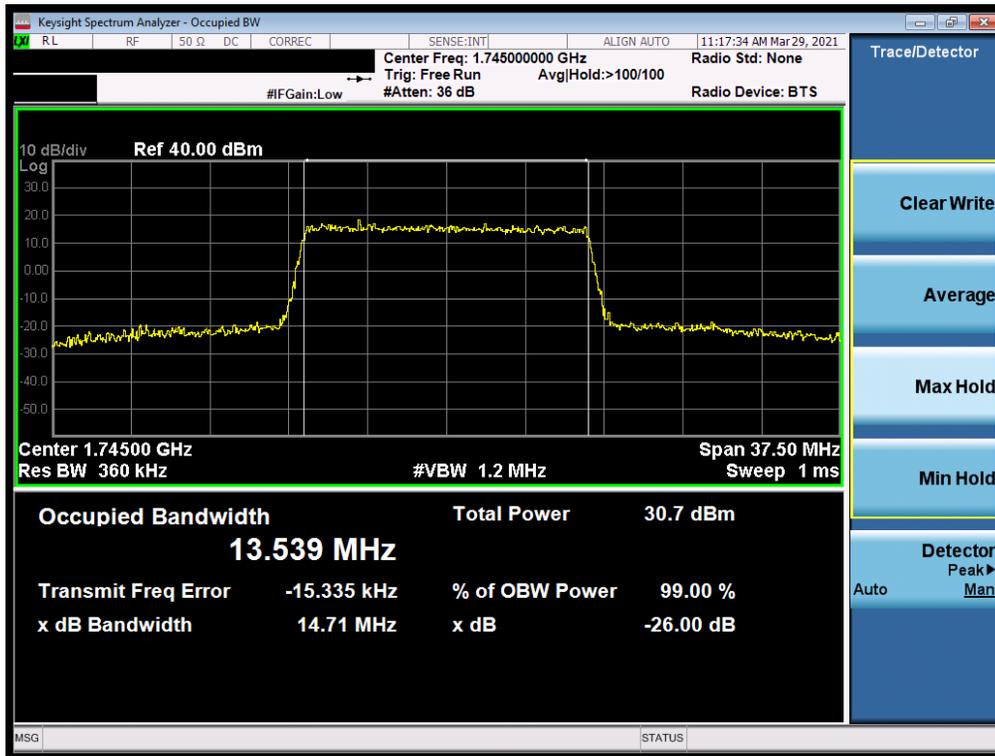


Plot 7-44. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 40 of 276

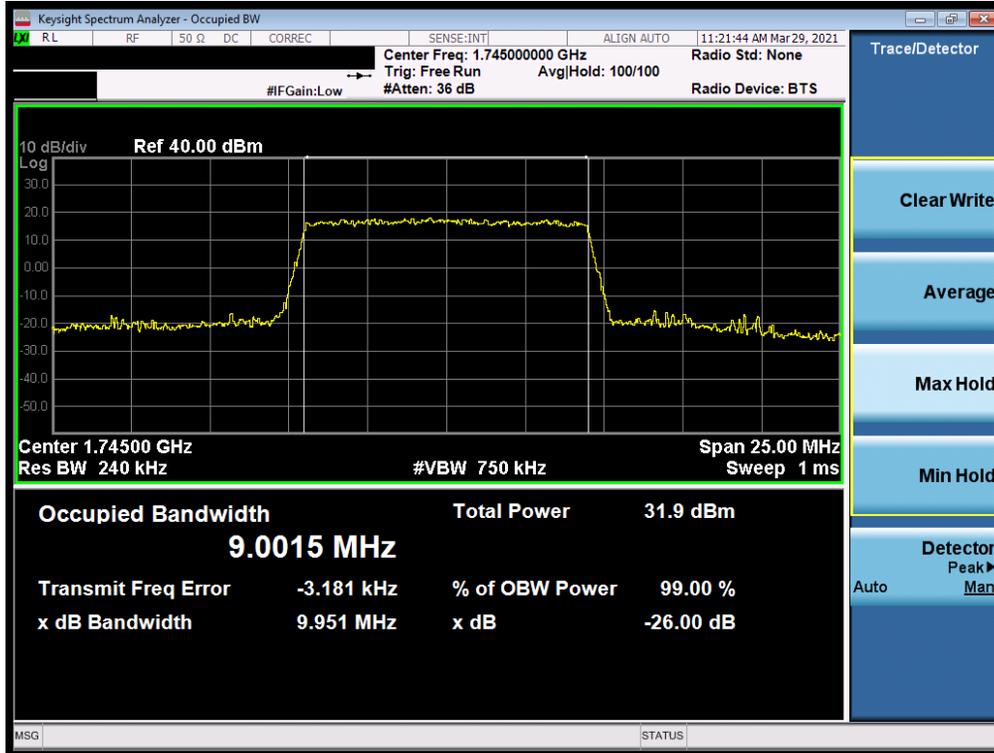


Plot 7-45. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)

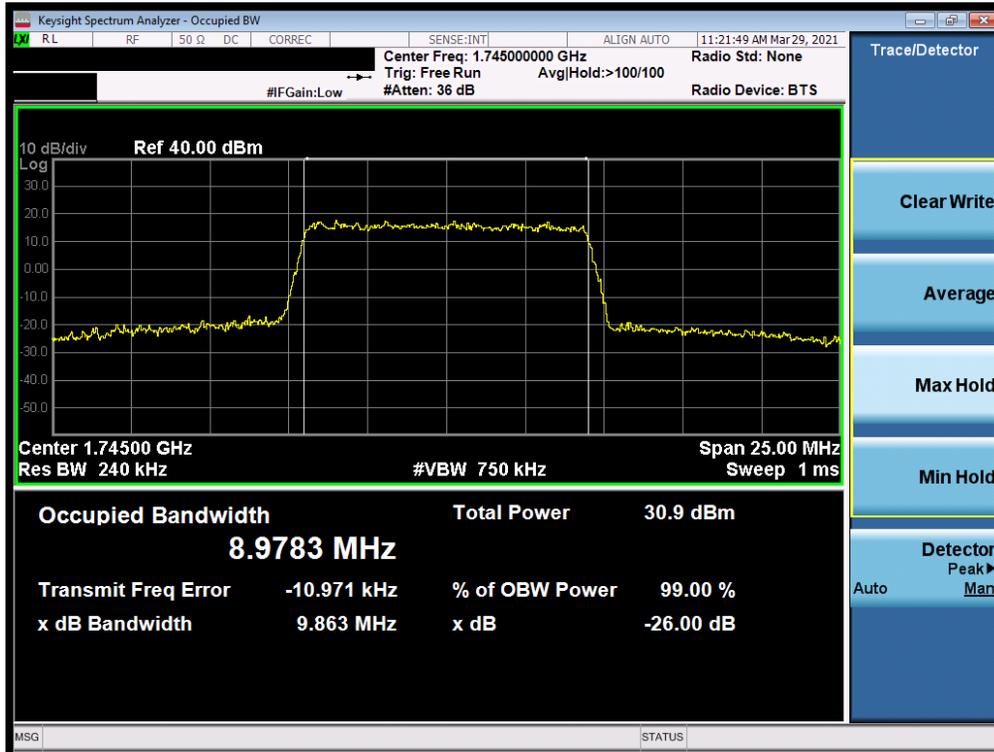


Plot 7-46. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 41 of 276

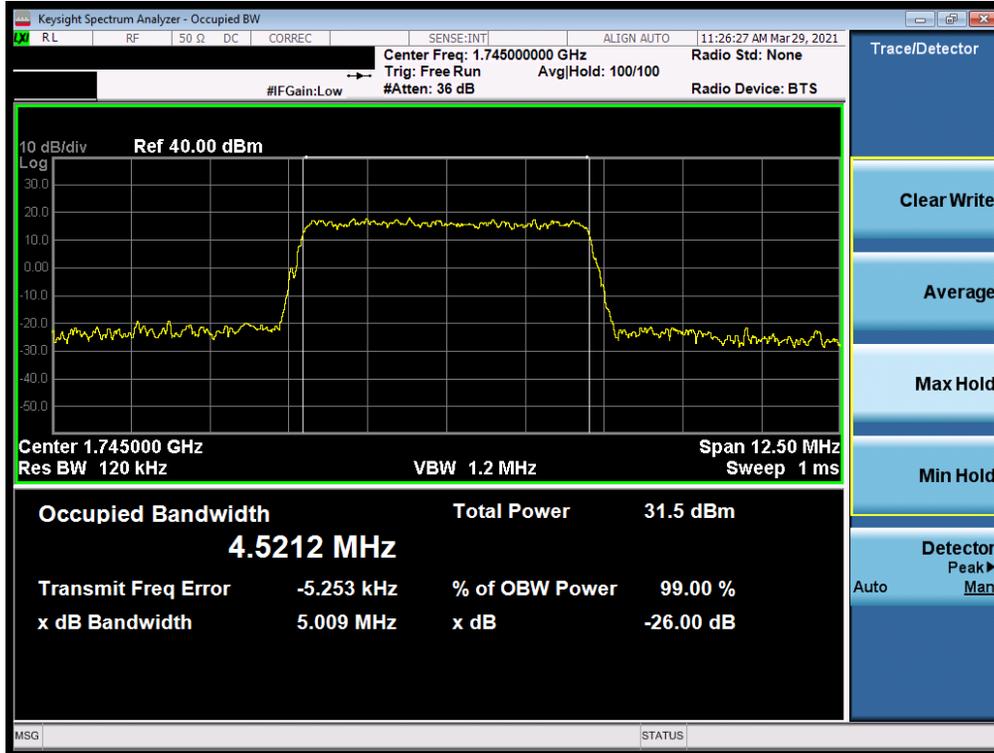


Plot 7-47. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)

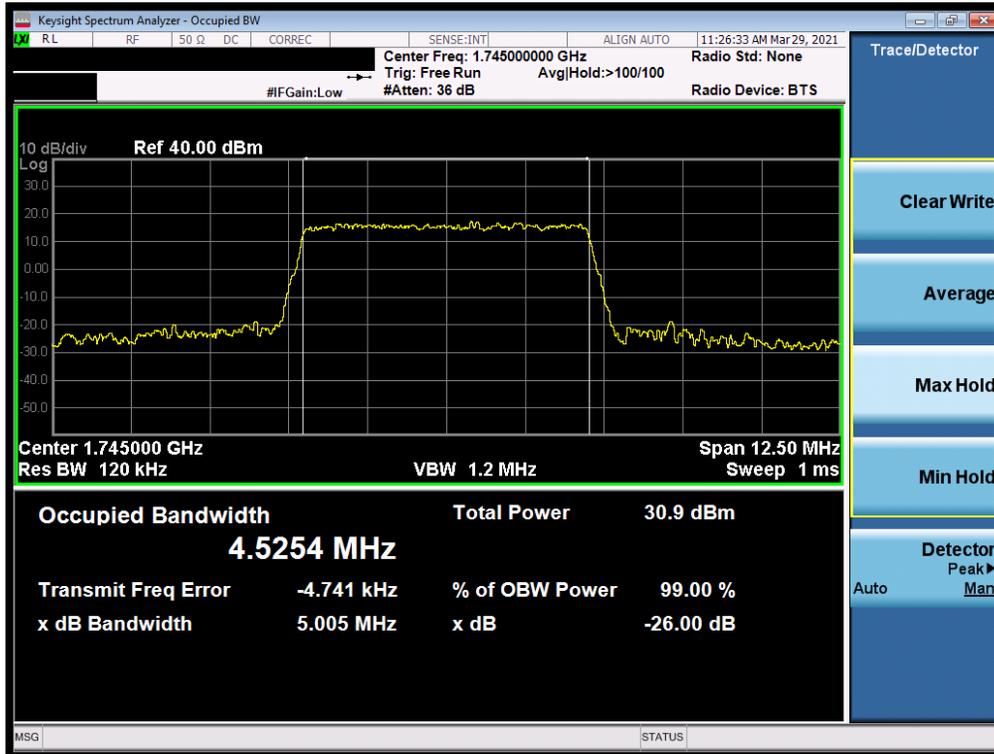


Plot 7-48. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 42 of 276

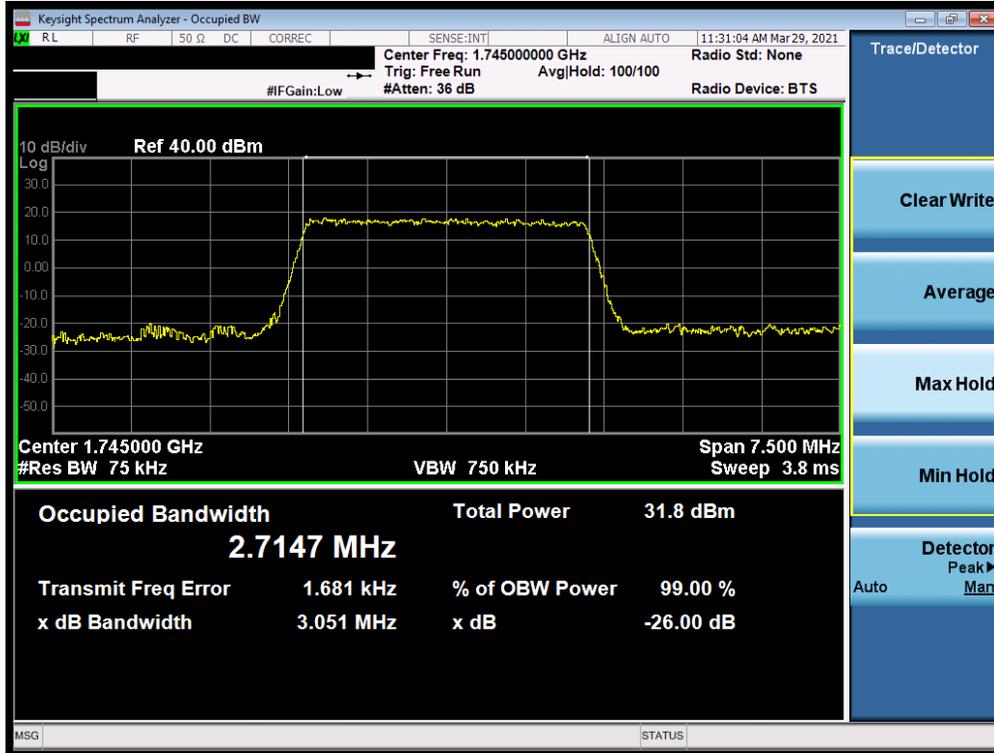


Plot 7-49. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB)

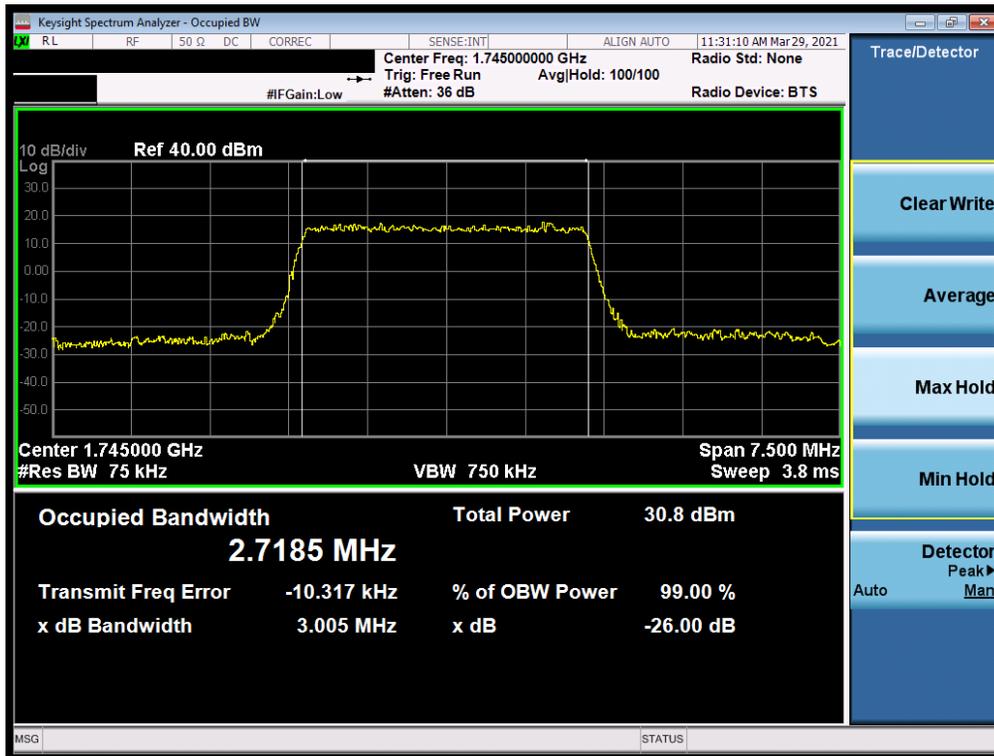


Plot 7-50. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 43 of 276

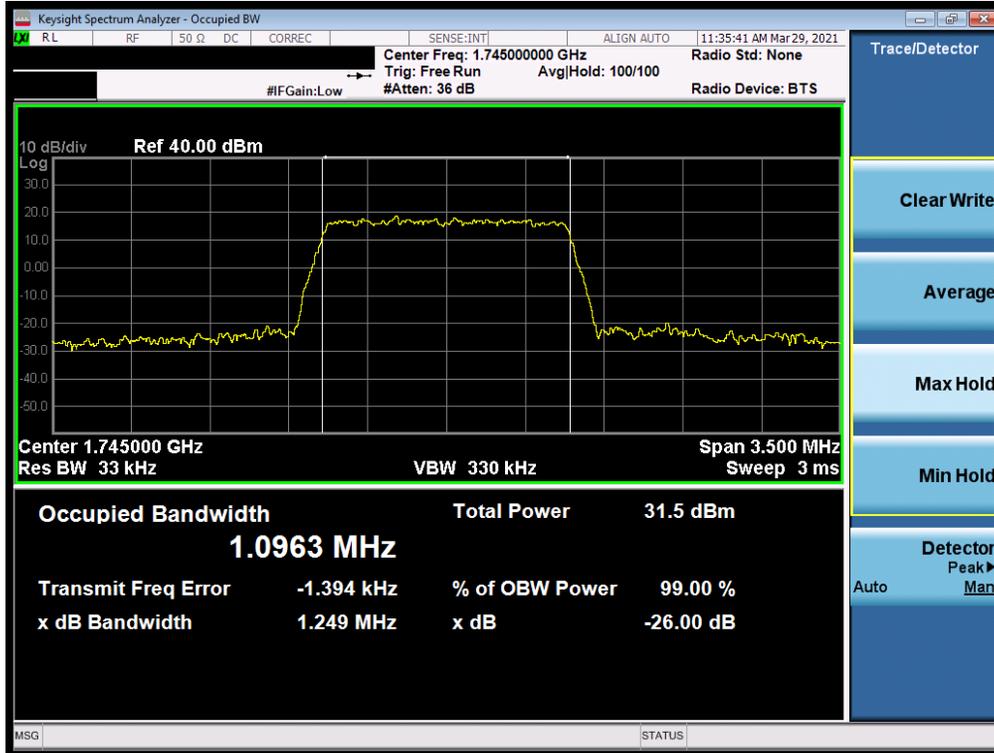


Plot 7-51. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)

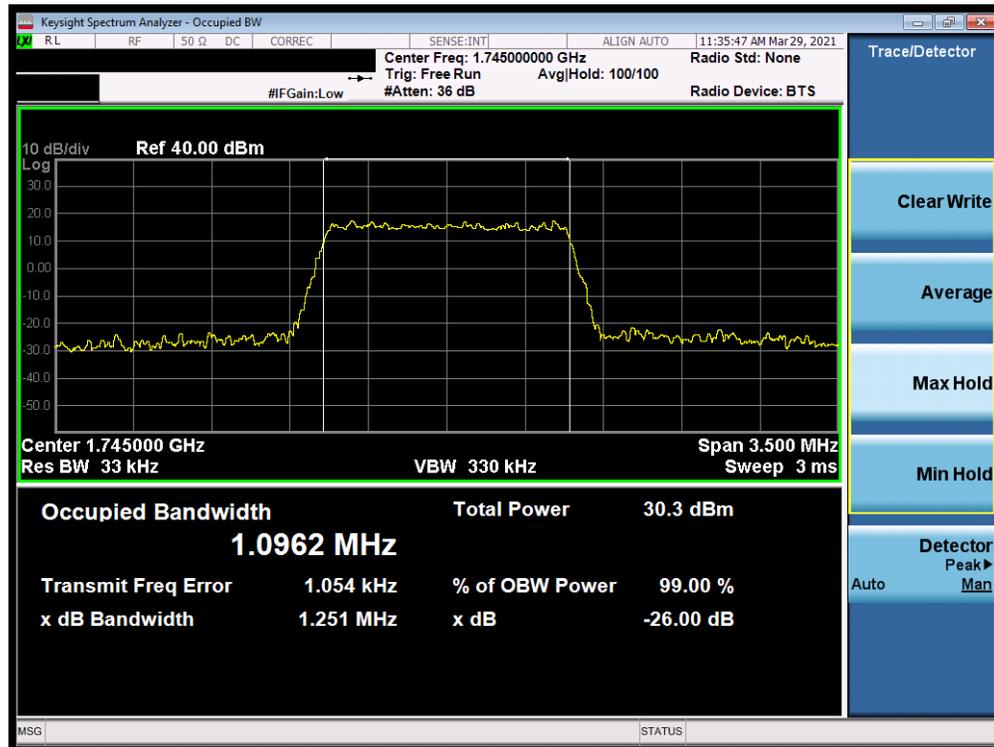


Plot 7-52. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 44 of 276



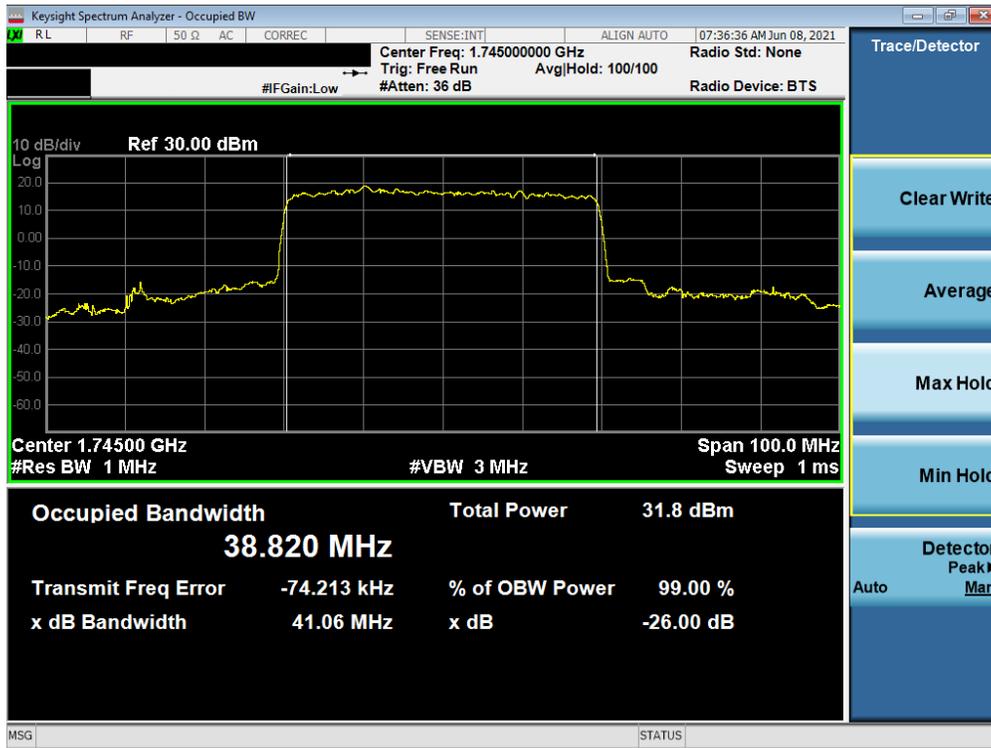
Plot 7-53. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB)



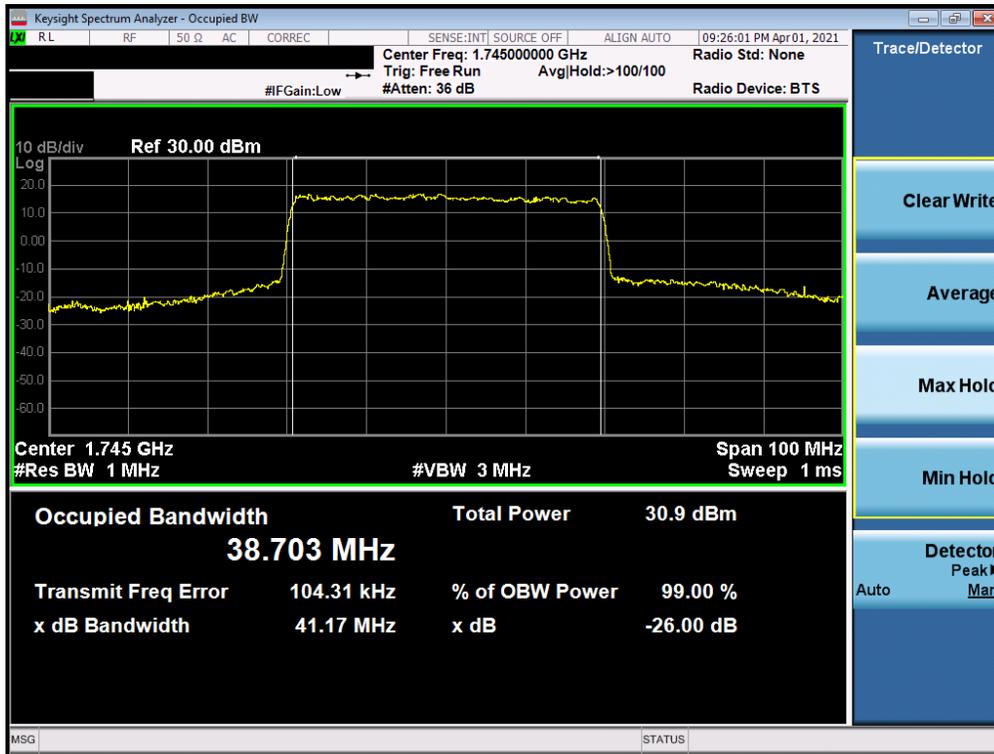
Plot 7-54. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 45 of 276

NR Band n66 – AntB

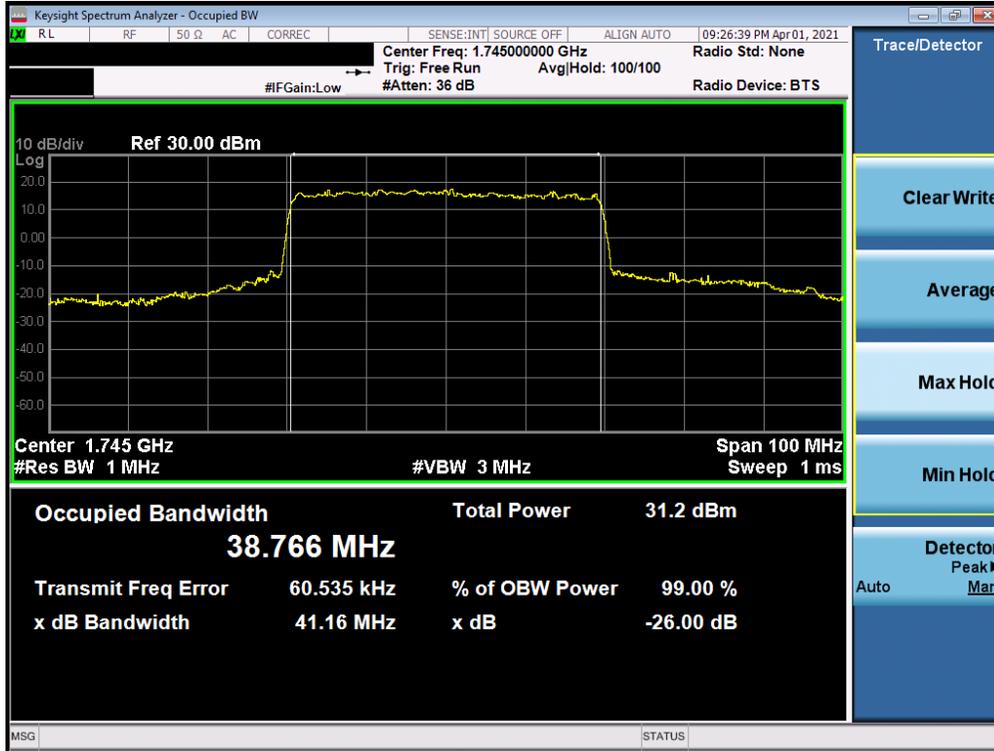


Plot 7-55. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB – AntB)

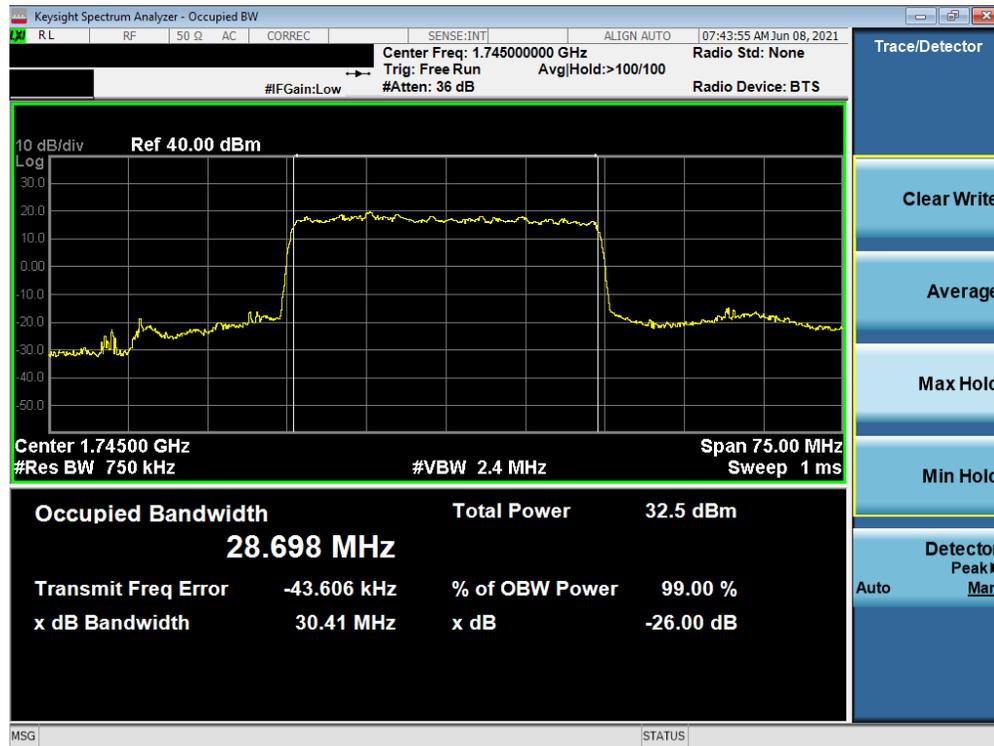


Plot 7-56. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 46 of 276

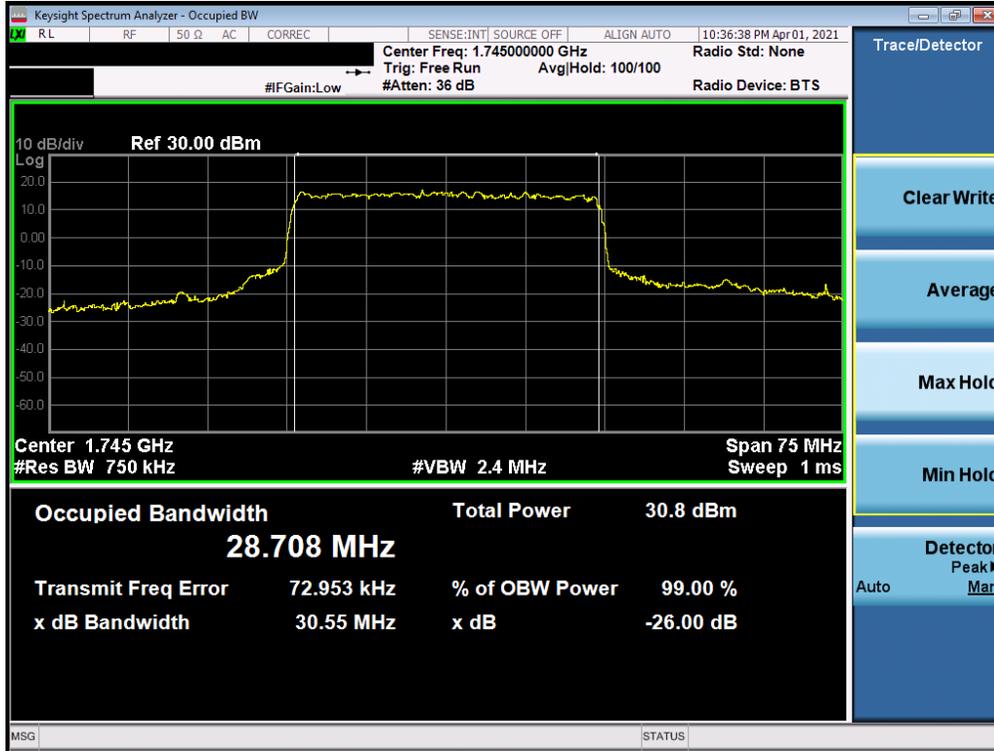


Plot 7-57. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB – AntB)

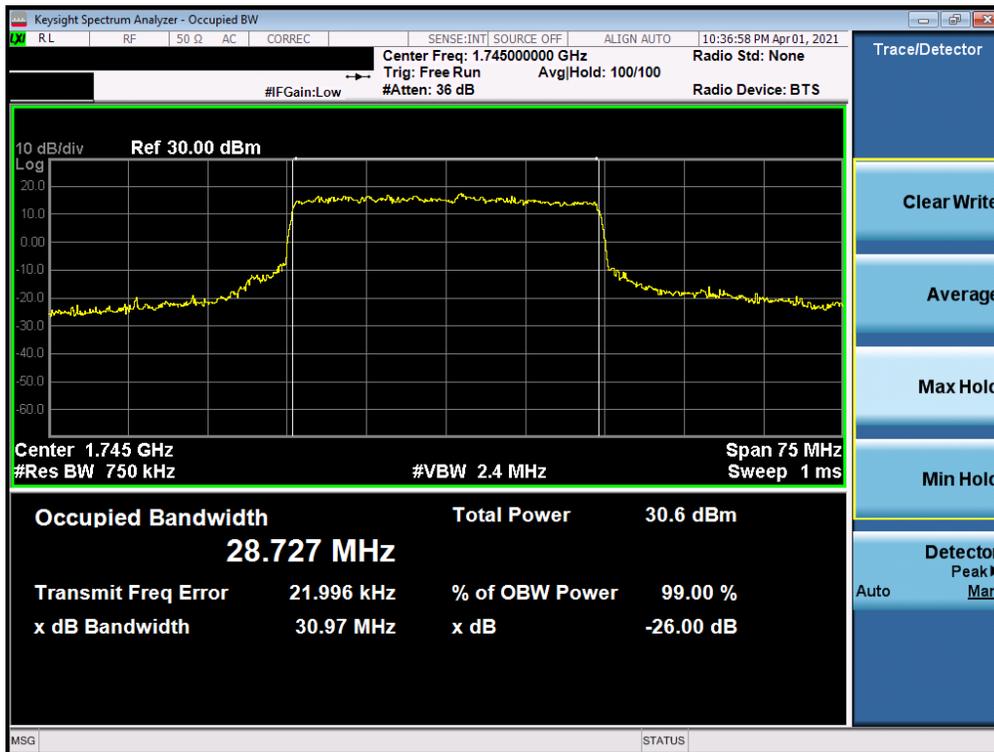


Plot 7-58. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 47 of 276

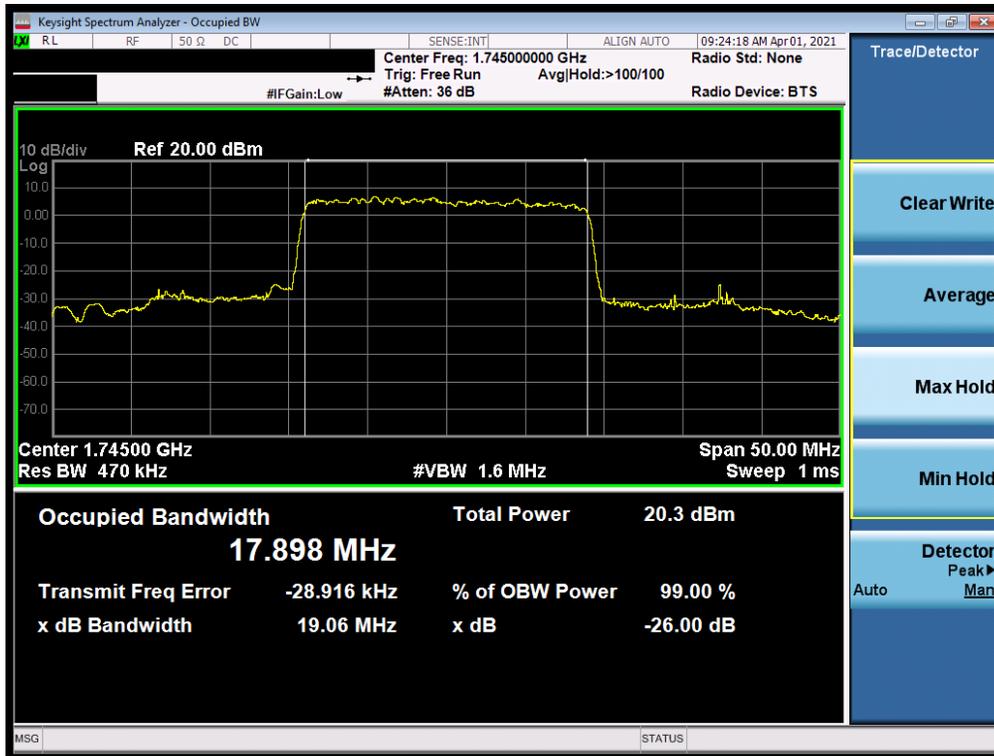


Plot 7-59. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB – AntB)

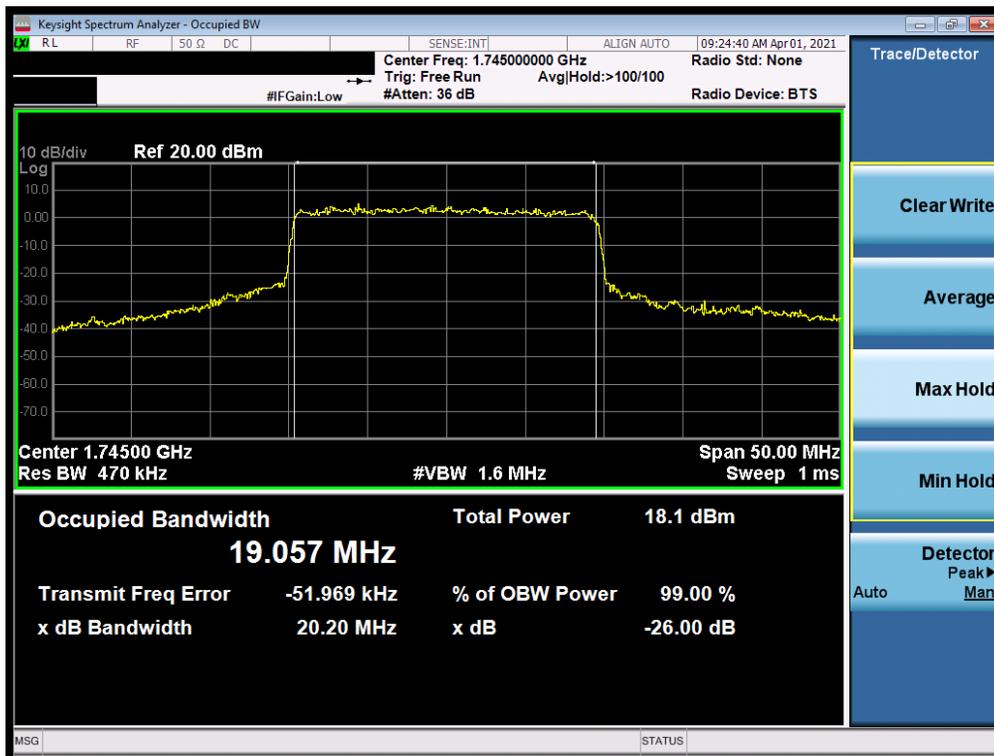


Plot 7-60. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 48 of 276

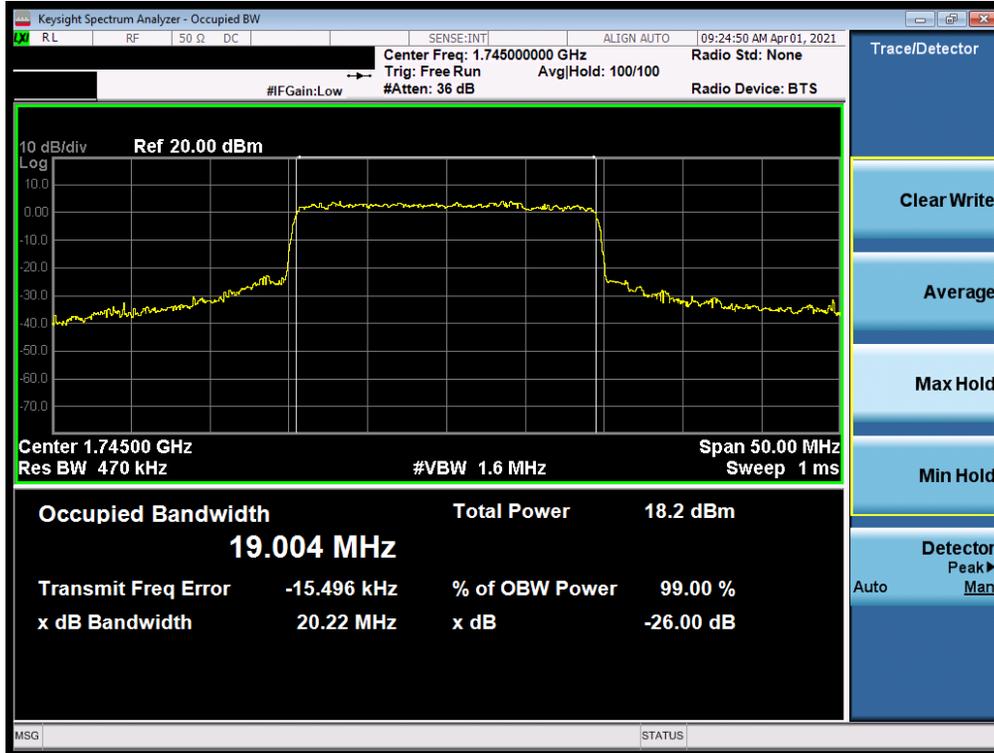


Plot 7-61. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB – AntB)

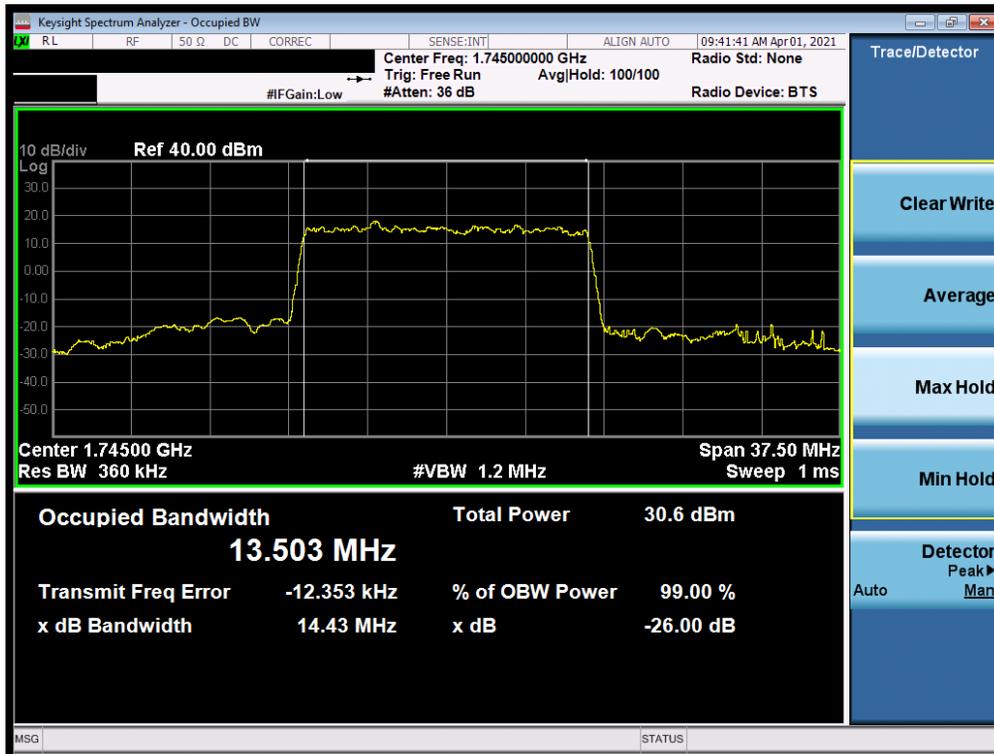


Plot 7-62. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 49 of 276



Plot 7-63. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB – AntB)

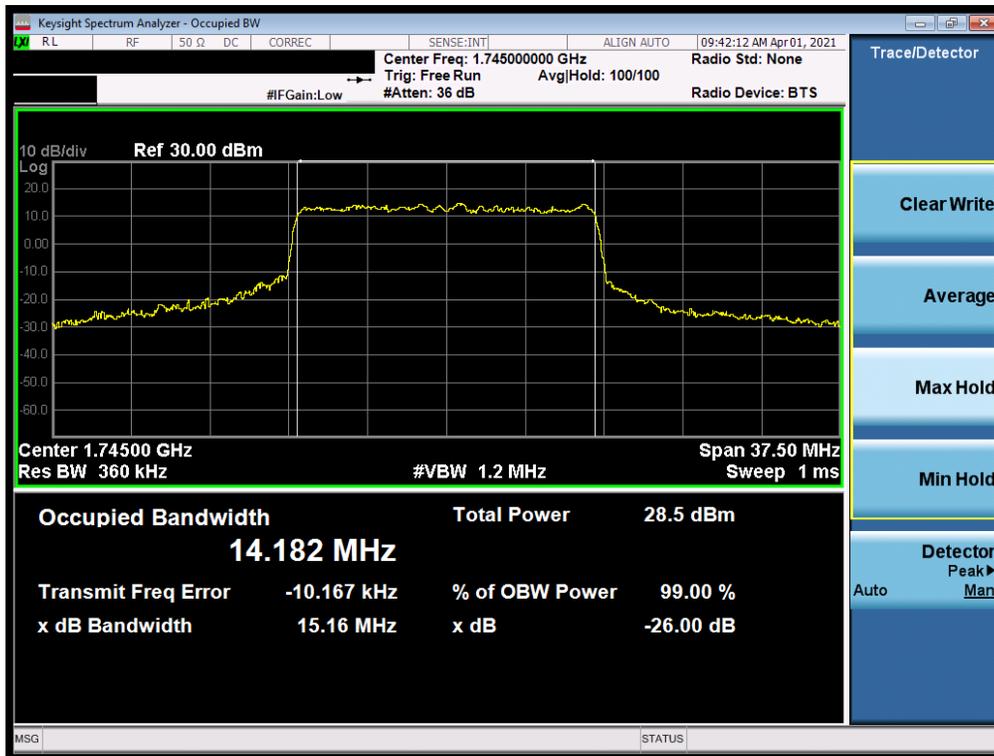


Plot 7-64. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 50 of 276

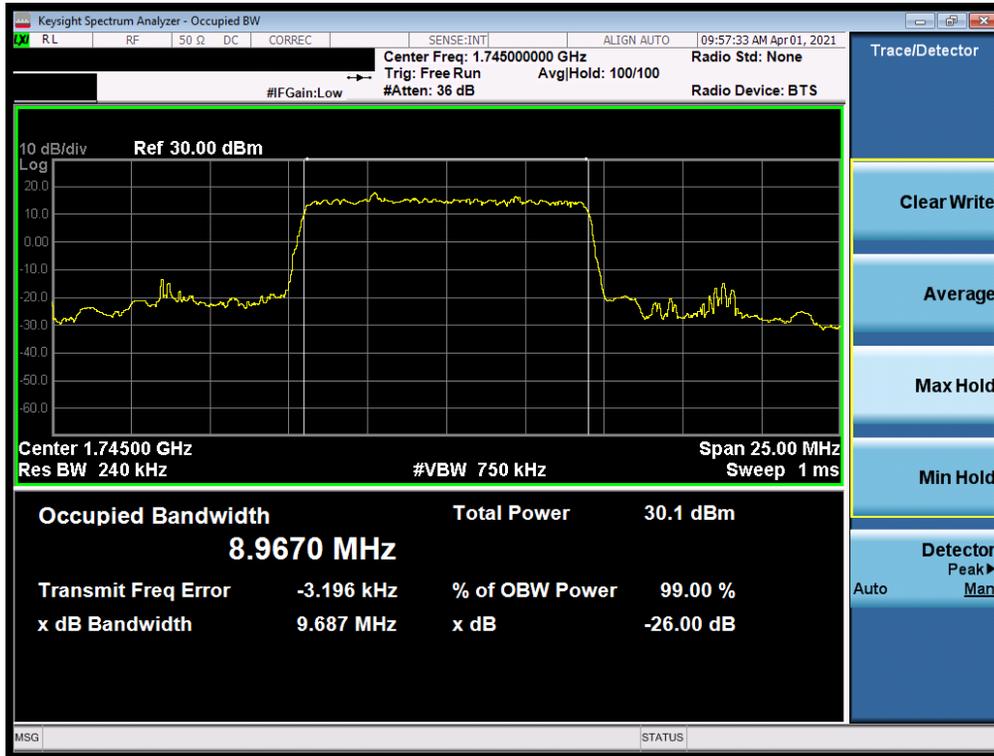


Plot 7-65. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB – AntB)

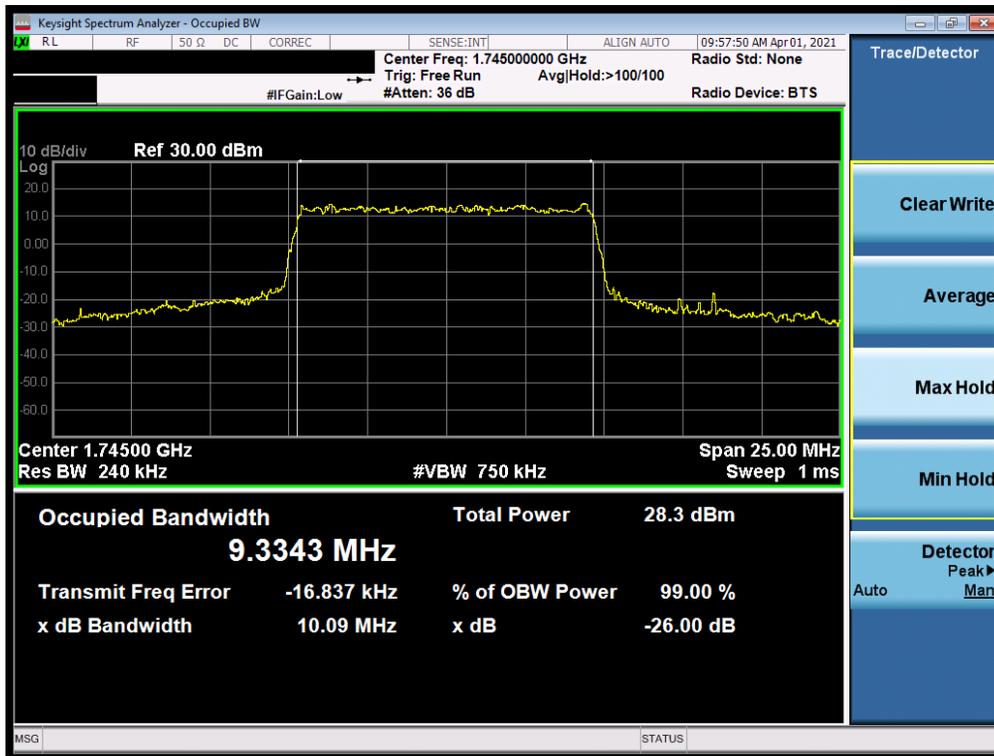


Plot 7-66. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 51 of 276

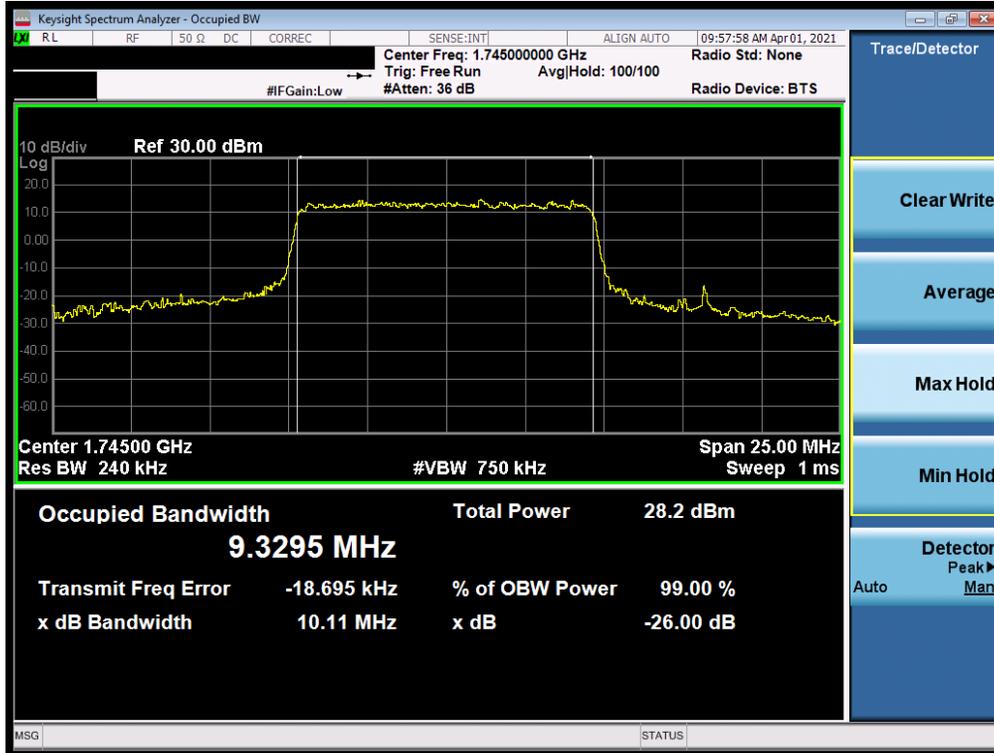


Plot 7-67. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB – AntB)

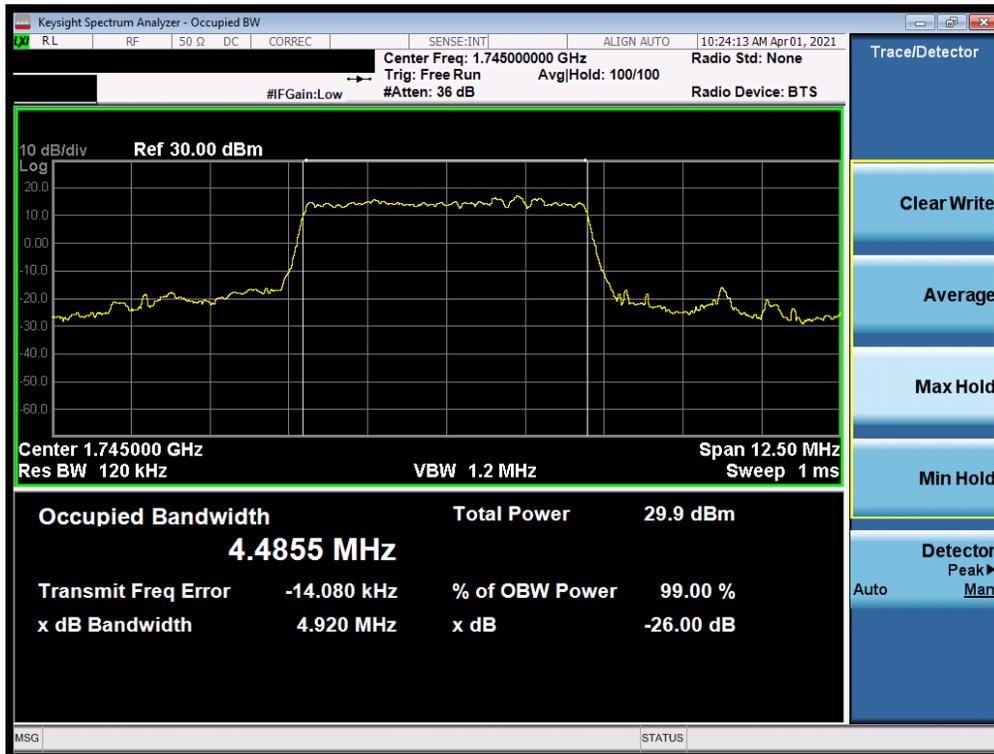


Plot 7-68. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 52 of 276

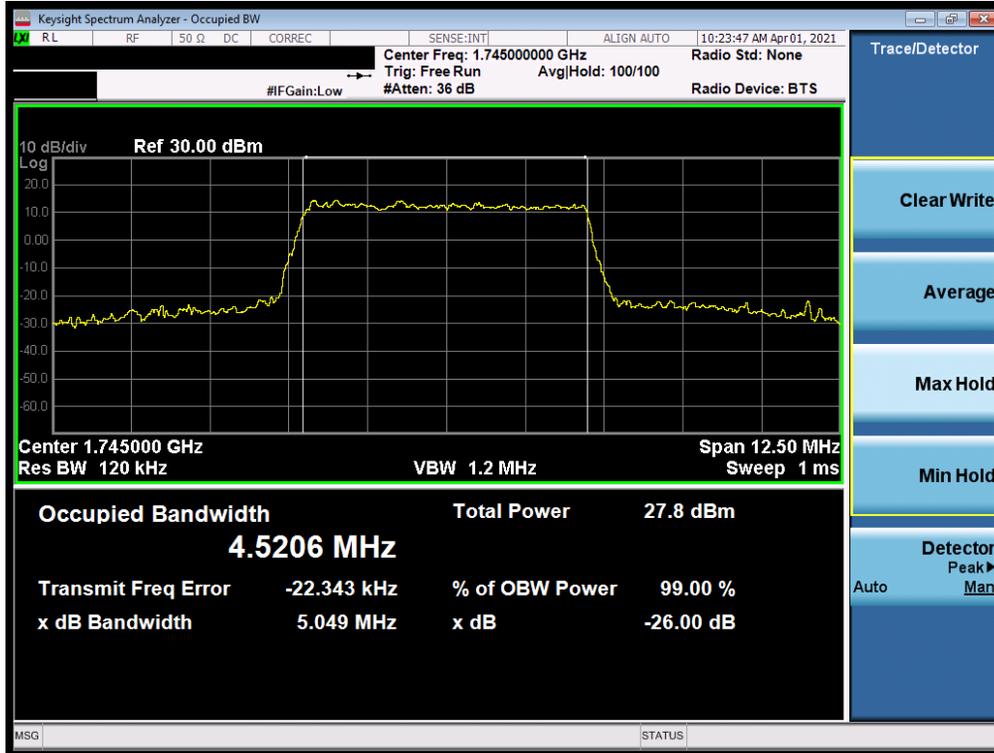


Plot 7-69. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB – AntB)

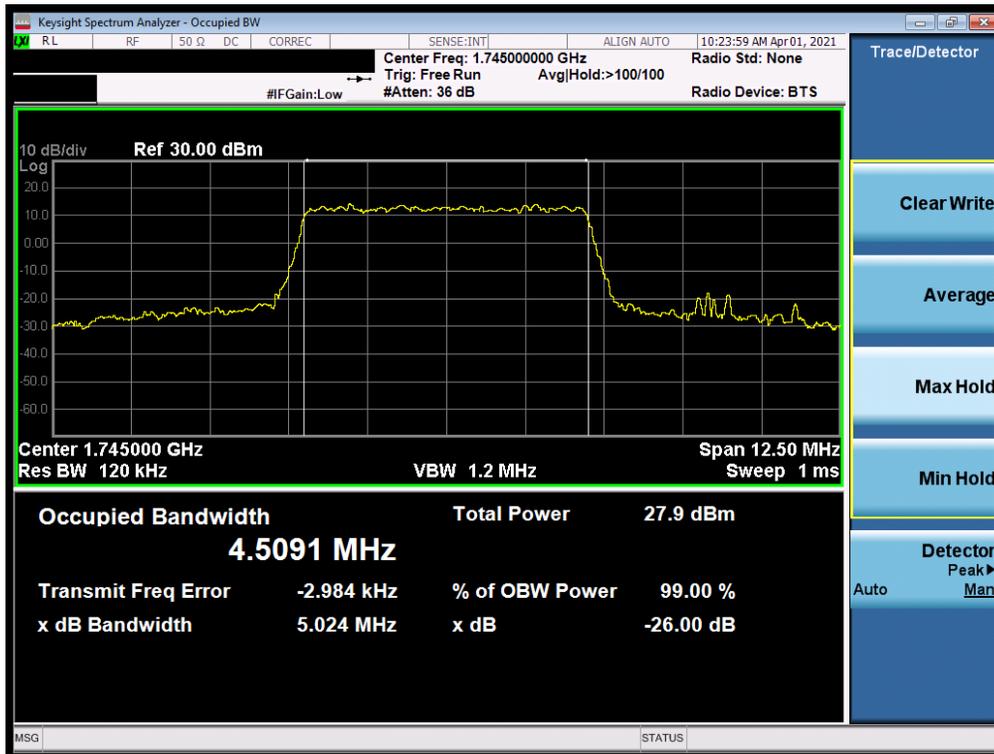


Plot 7-70. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 53 of 276



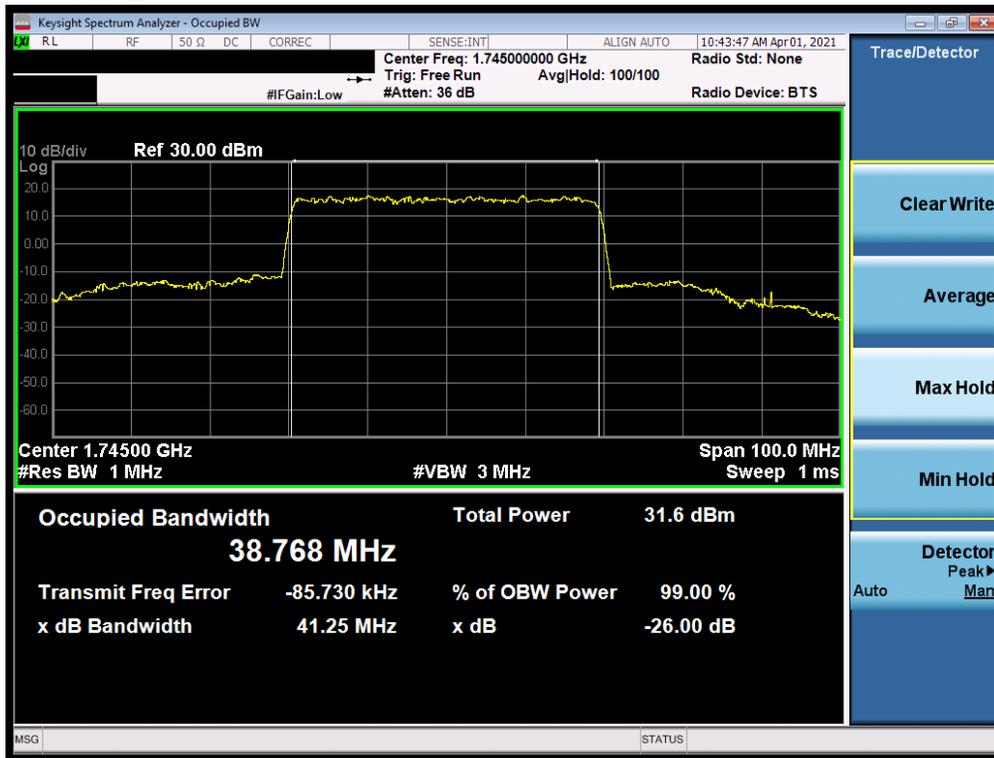
Plot 7-71. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB – AntB)



Plot 7-72. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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NR Band n66 – AntE

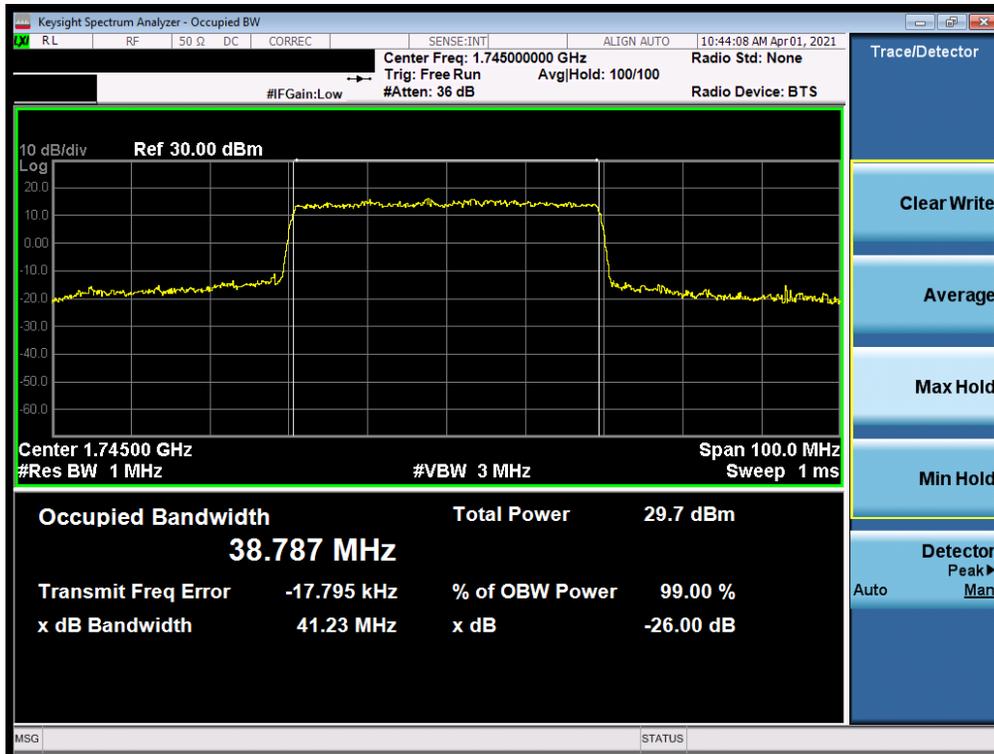


Plot 7-73. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB – AntE)

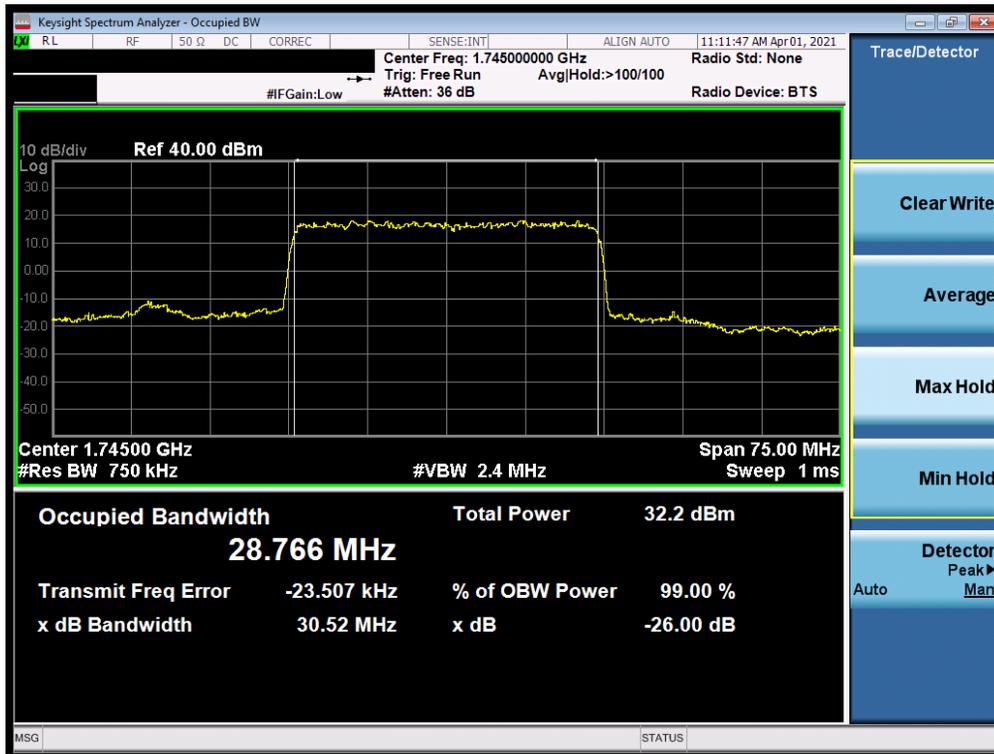


Plot 7-74. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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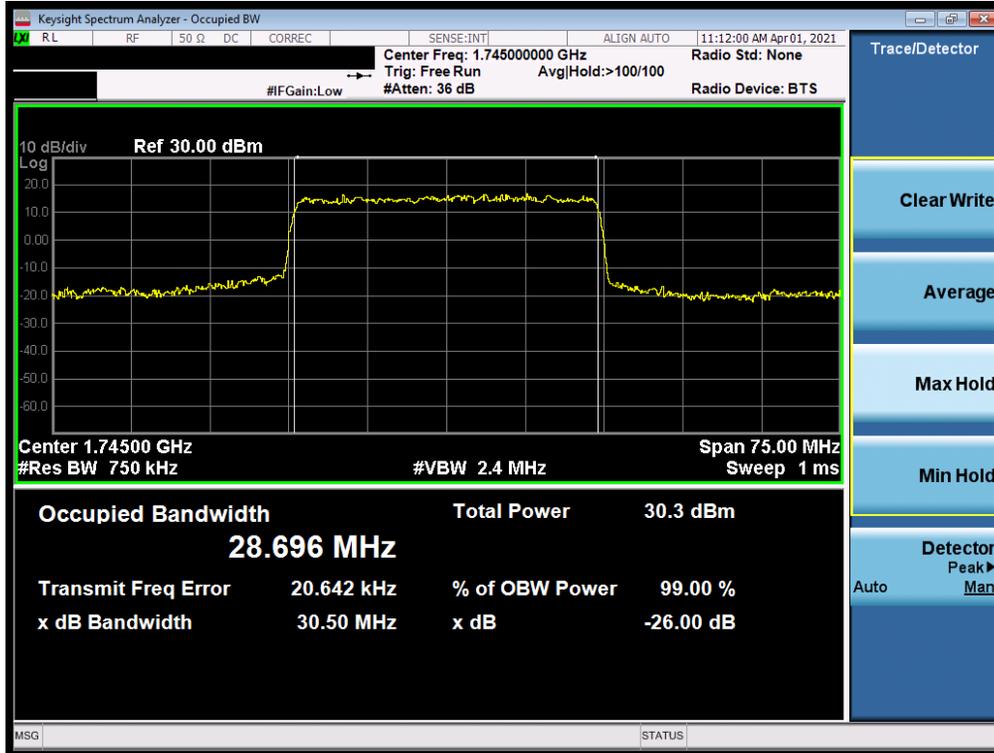


Plot 7-75. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB – AntE)

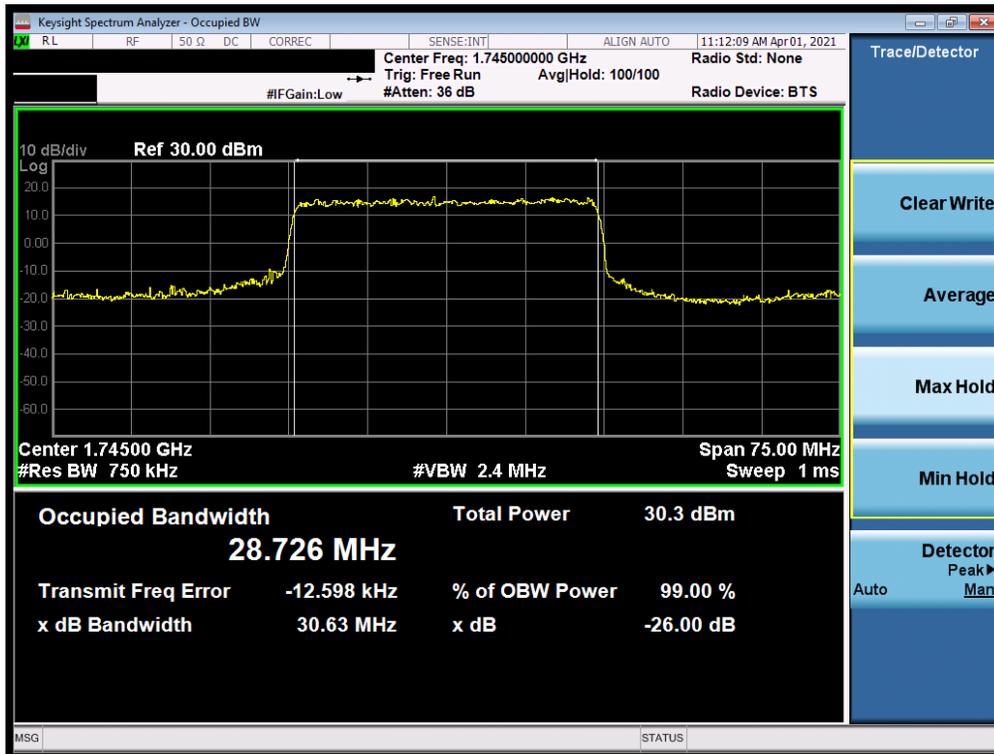


Plot 7-76. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-77. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB – AntE)

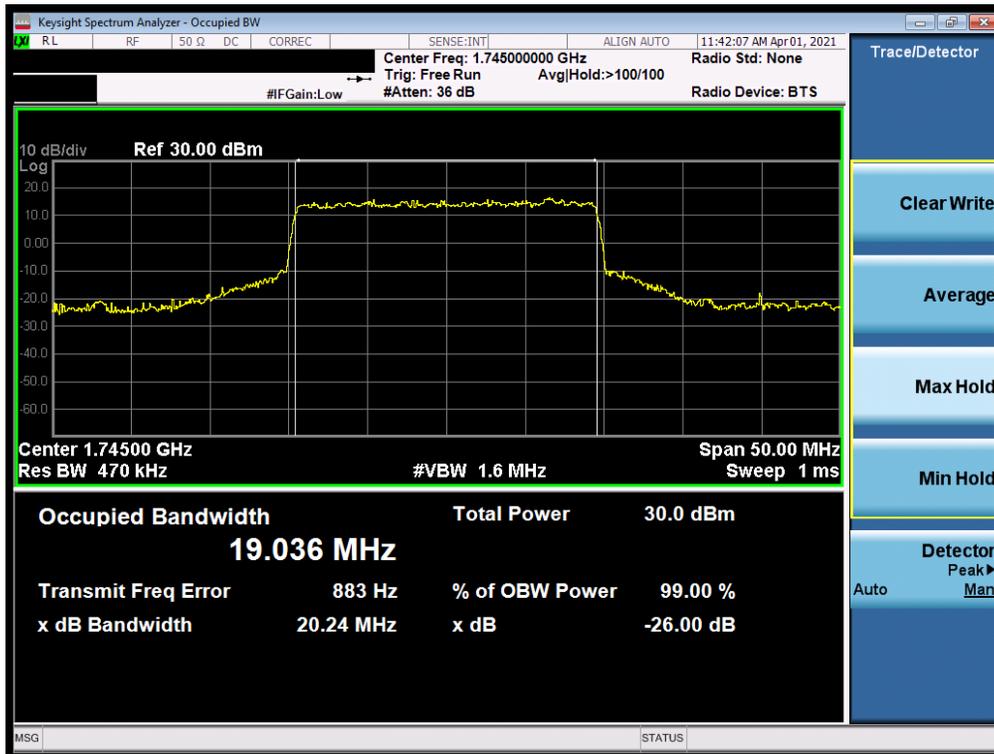


Plot 7-78. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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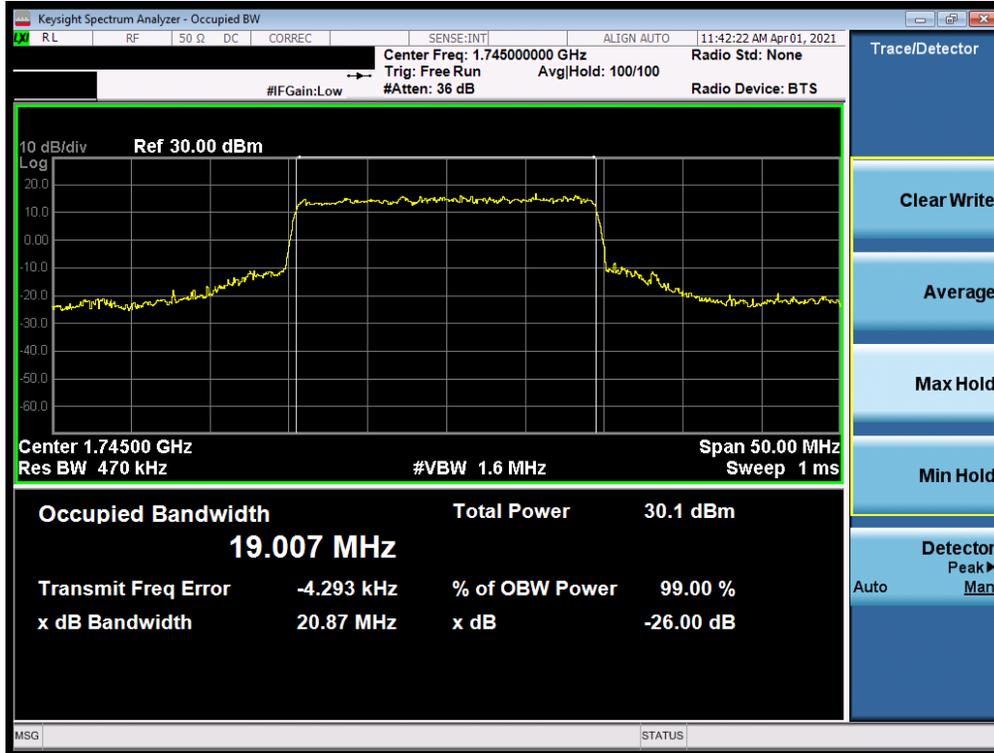


Plot 7-79. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB – AntE)

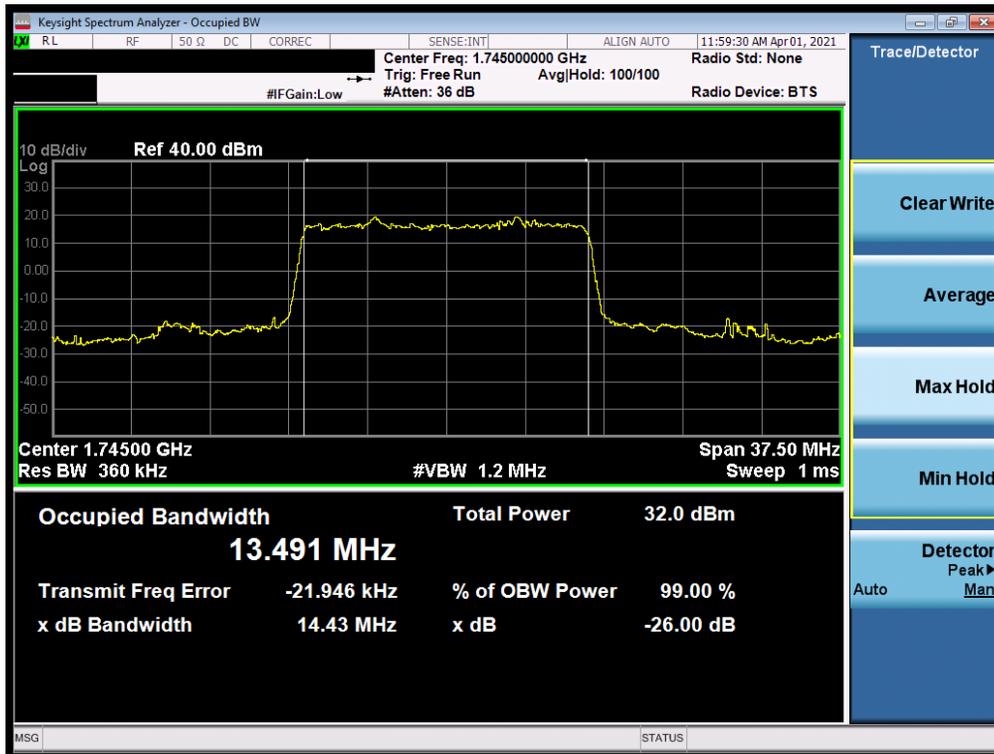


Plot 7-80. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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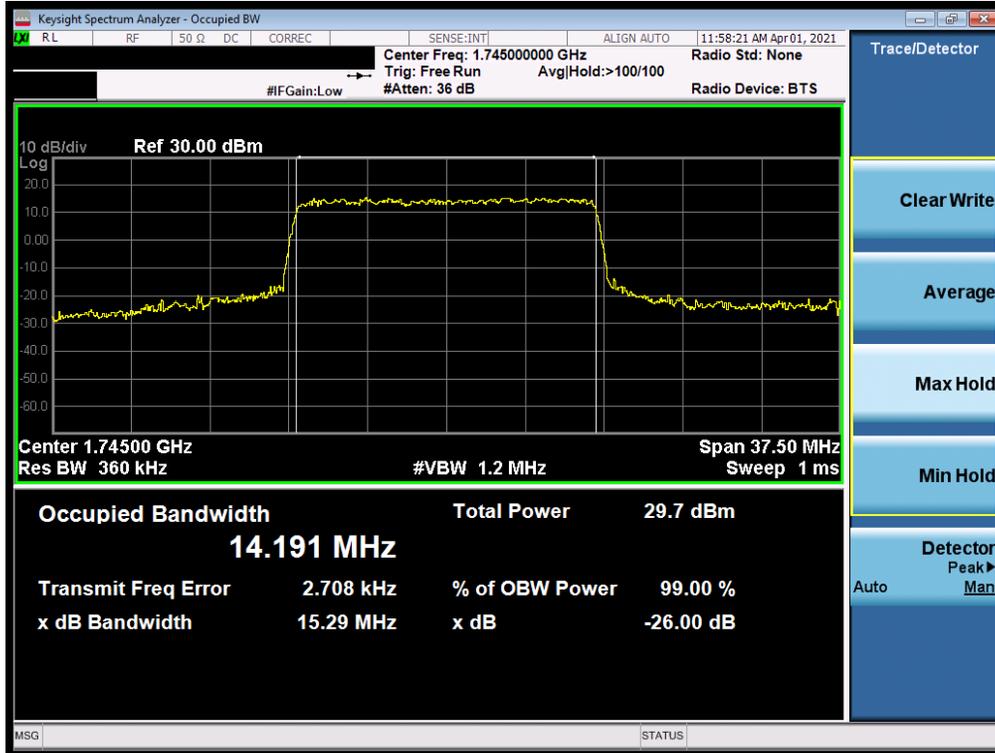


Plot 7-81. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB – AntE)



Plot 7-82. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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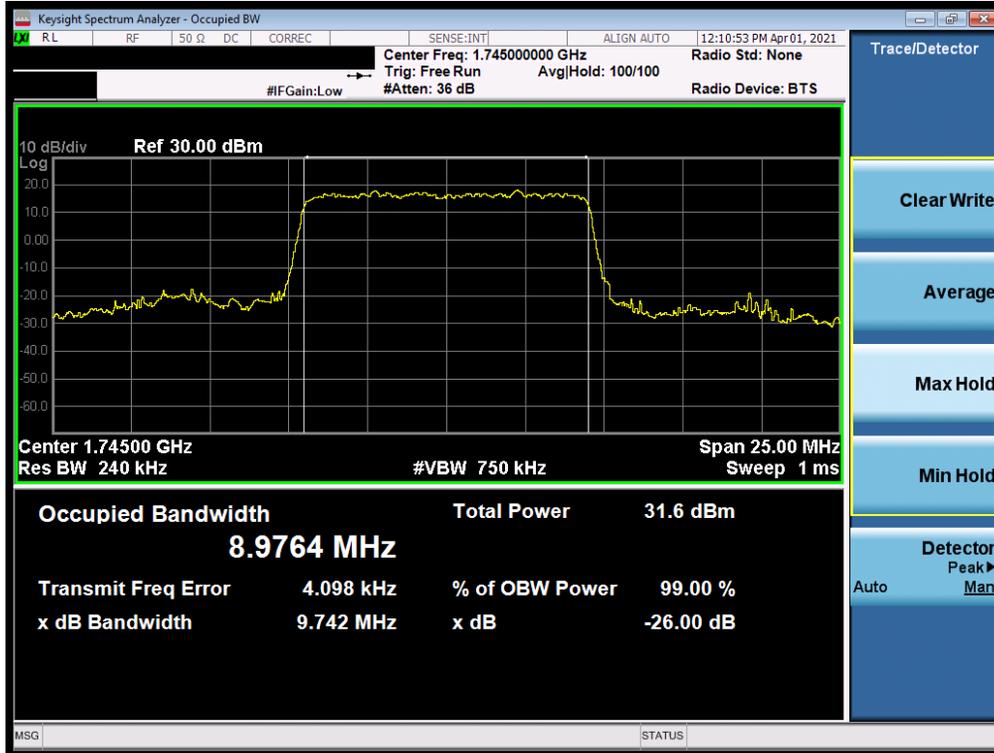


Plot 7-83. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB – AntE)

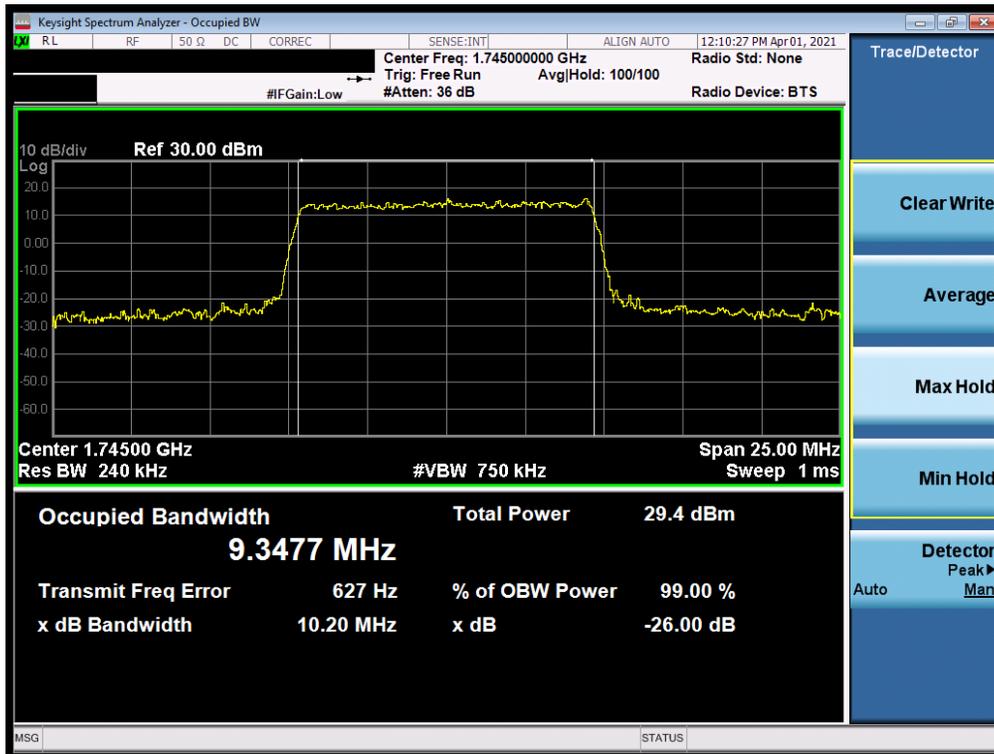


Plot 7-84. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 60 of 276

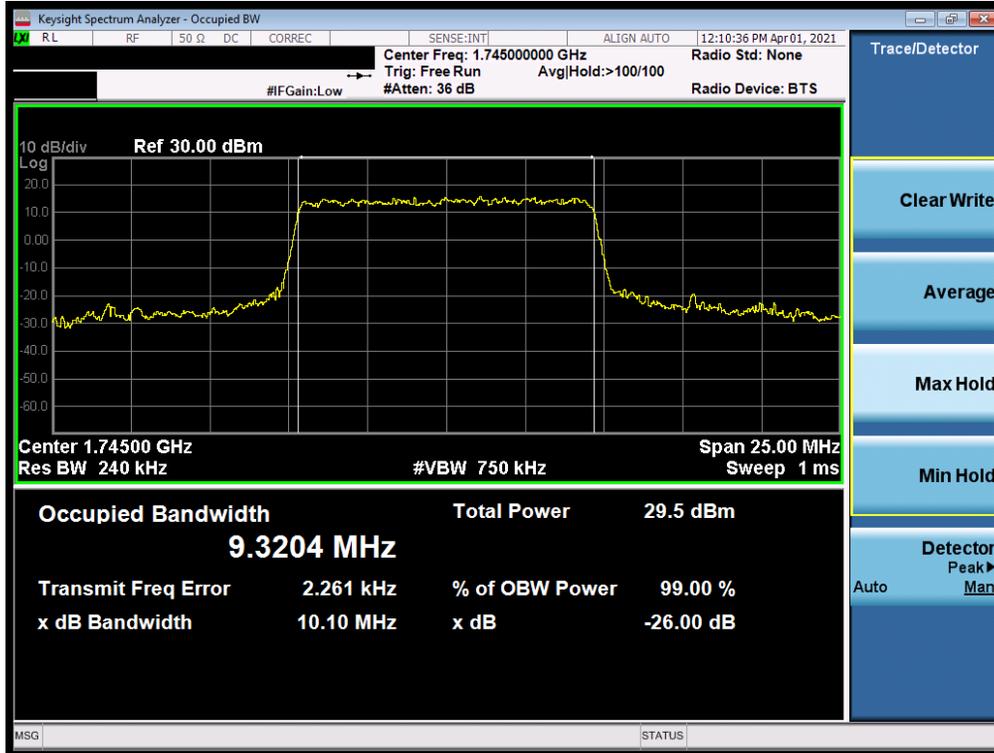


Plot 7-85. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB – AntE)

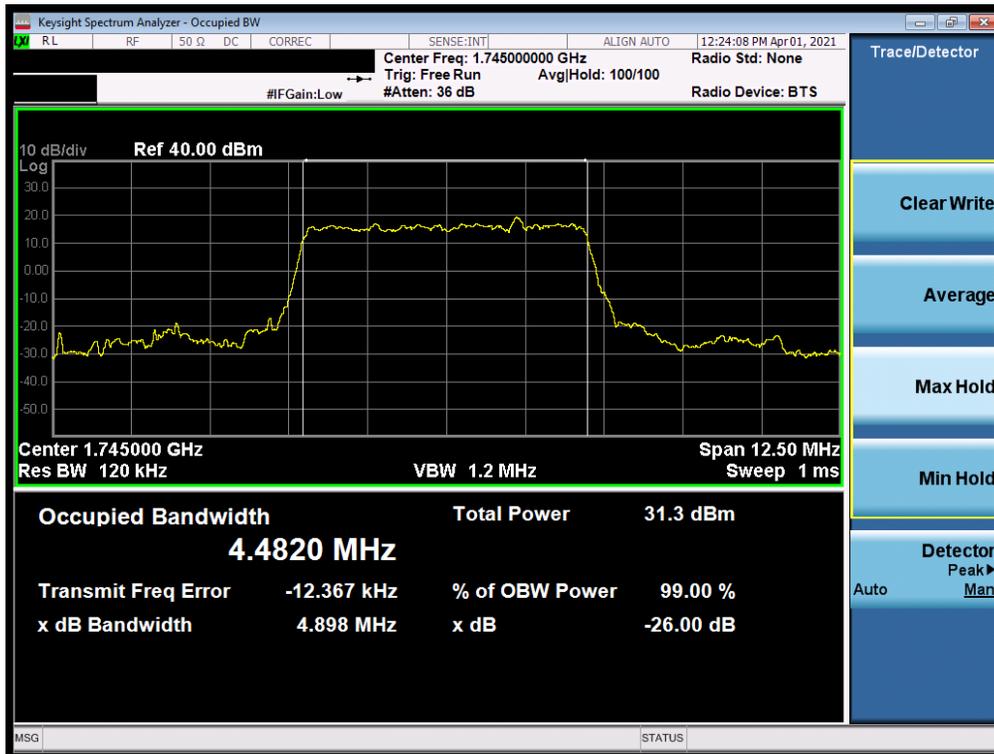


Plot 7-86. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-87. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB – AntE)

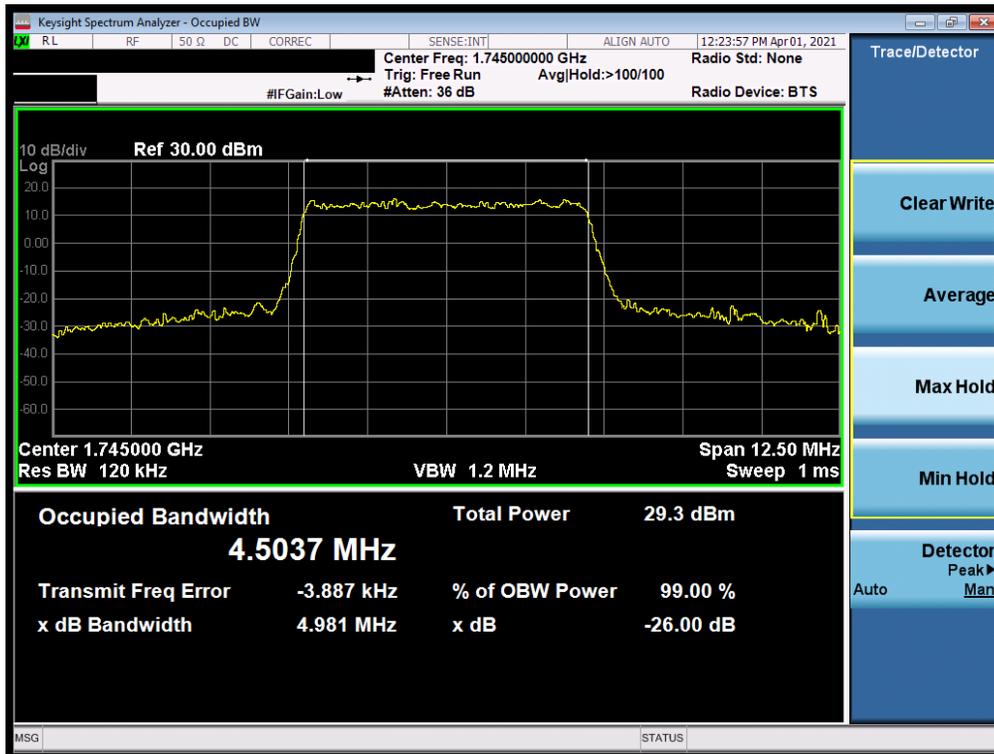


Plot 7-88. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-89. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB – AntE)



Plot 7-90. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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7.5 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 $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 18GHz (separated into at least two plots per channel)
2. RBW \geq 100kHz
3. VBW \geq 3 x RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

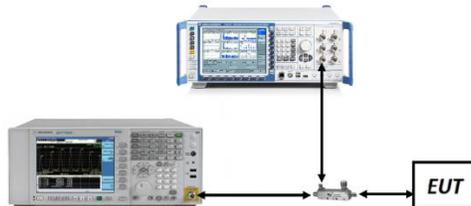
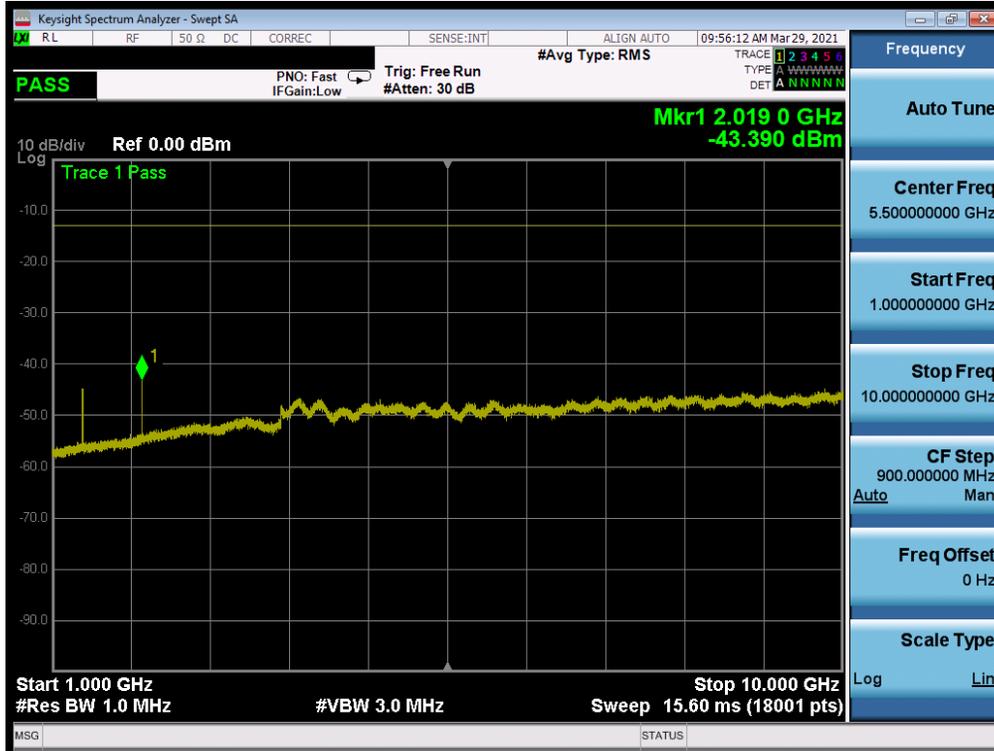


Figure 7-4. Test Instrument & Measurement Setup

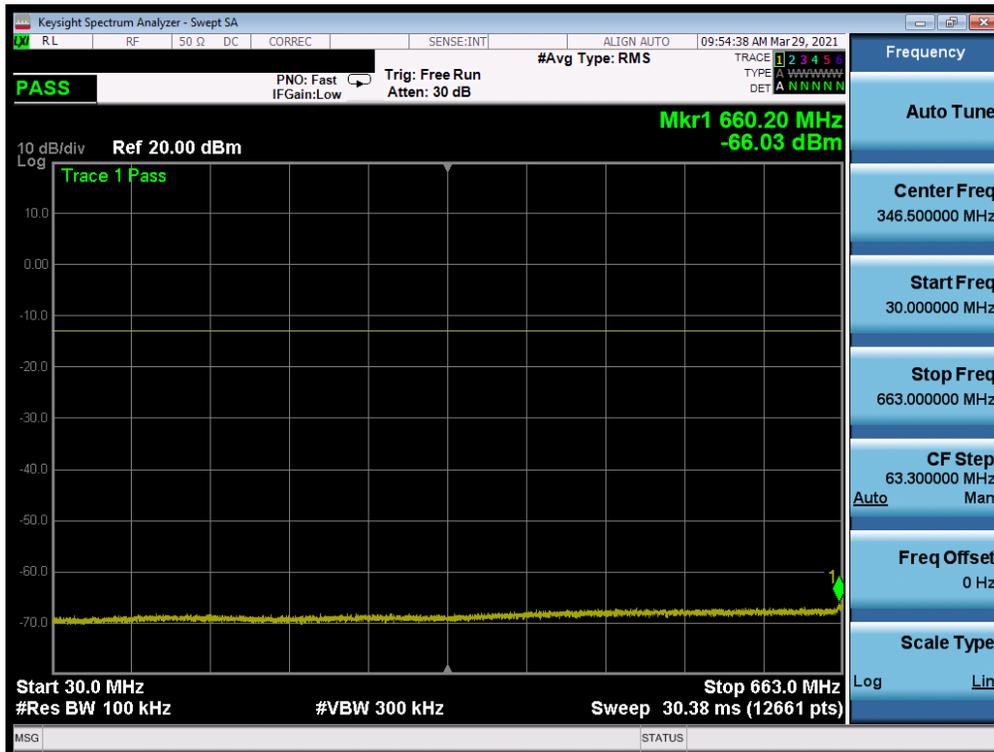
Test Notes

1. Per Part 27 and RSS-139, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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 emission are attenuated at least 26 dB below the transmitter power.
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.

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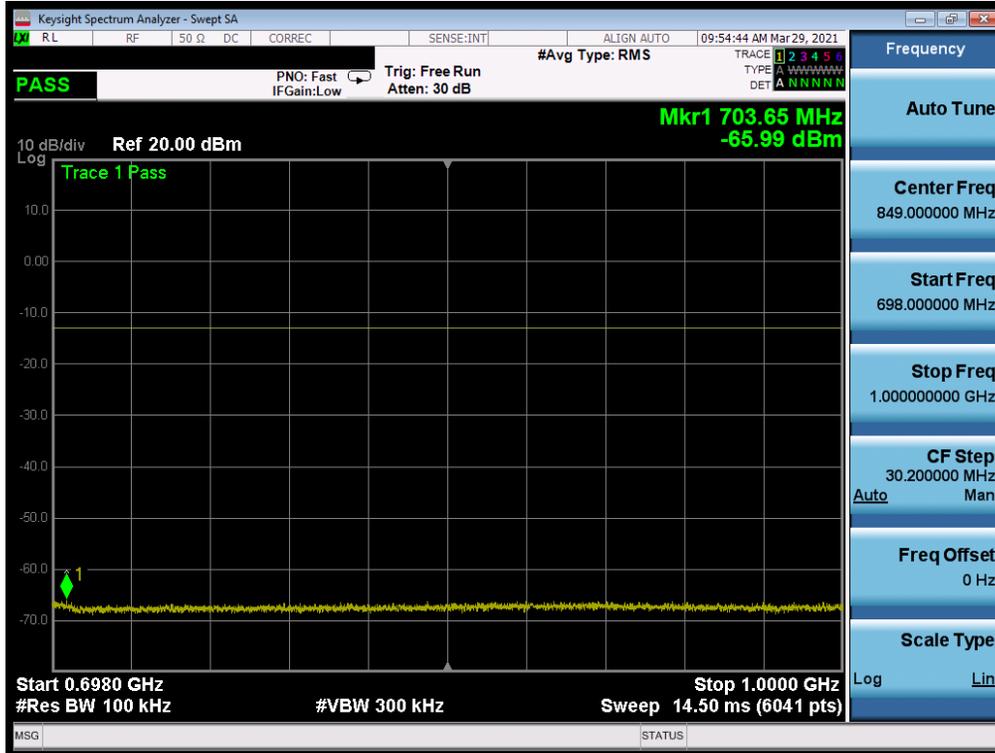


Plot 7-93. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

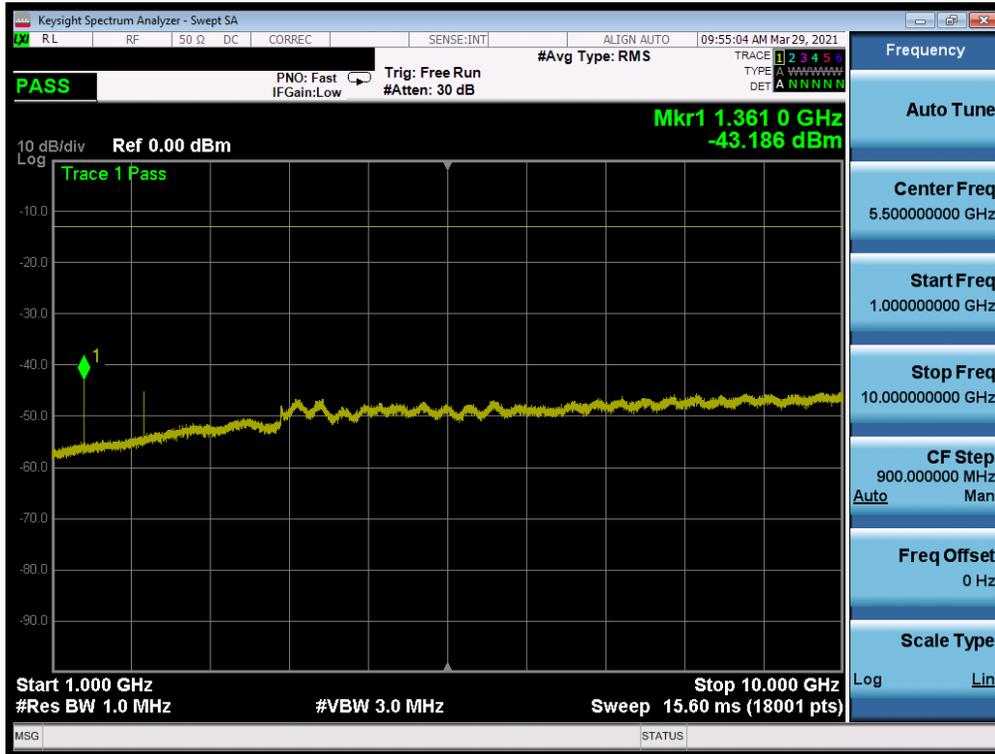


Plot 7-94. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-95. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-96. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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