

PART 27 MEASUREMENT REPORT

Applicant Name:

Sony Corporation
1-7-1 Konan Minato-ku
Tokyo, 108-0075
Japan

Date of Testing:

6/2/2022 - 8/10/2022

Test Report Issue Date:

8/10/2022

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2205240063-06.PY7

FCC ID:	PY7-76056F
APPLICANT:	Sony Corporation

Application Type:

Certification

EUT Type:

Portable Handset

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

27

Test Procedure(s):

ANSI C63.26-2015, KDB 648474 D03 v01r04

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

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



RJ Ortanez
Executive Vice President



FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 1 of 198

TABLE OF CONTENTS

1.0	INTRODUCTION	5
1.1	Scope	5
1.2	Element Test Location.....	5
1.3	Test Facility / Accreditations.....	5
2.0	PRODUCT INFORMATION.....	6
2.1	Equipment Description	6
2.2	Device Capabilities.....	6
2.3	Test Configuration	6
2.4	Software and Firmware	6
2.5	EMI Suppression Device(s)/Modifications	6
3.0	DESCRIPTION OF TESTS	7
3.1	Evaluation Procedure	7
3.2	Radiated Power and Radiated Spurious Emissions	7
4.0	MEASUREMENT UNCERTAINTY	8
5.0	TEST EQUIPMENT CALIBRATION DATA	9
6.0	SAMPLE CALCULATIONS	10
7.0	TEST RESULTS	11
7.1	Summary.....	11
7.2	Conducted Output Power Data	13
7.3	Occupied Bandwidth	16
7.4	Spurious and Harmonic Emissions at Antenna Terminal	52
7.5	Band Edge Emissions at Antenna Terminal	92
7.6	Peak-Average Ratio	144
7.7	Radiated Power (ERP/EIRP).....	158
7.8	Radiated Spurious Emissions Measurements.....	163
7.9	Frequency Stability / Temperature Variation	190
8.0	CONCLUSION.....	198

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 2 of 198

MEASUREMENT REPORT

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	0.020	13.12	0.034	15.27	18M0G7D
		16QAM	673.0 - 688.0	0.019	12.75	0.031	14.90	18M0W7D
	15 MHz	QPSK	670.5 - 690.5	0.020	12.97	0.033	15.12	13M5G7D
		16QAM	670.5 - 690.5	0.019	12.69	0.031	14.84	13M5W7D
	10 MHz	QPSK	668.0 - 693.0	0.022	13.44	0.036	15.59	9M01G7D
		16QAM	668.0 - 693.0	0.019	12.89	0.032	15.04	9M00W7D
5 MHz	QPSK	665.5 - 695.5	0.022	13.35	0.036	15.50	4M53G7D	
	16QAM	665.5 - 695.5	0.021	13.21	0.034	15.36	4M55W7D	
LTE Band 12/17 (Main ANT)	10 MHz	QPSK	704.0 - 711.0	0.032	15.10	0.053	17.25	9M06G7D
		16QAM	704.0 - 711.0	0.028	14.39	0.045	16.54	9M03W7D
	5 MHz	QPSK	701.5 - 713.5	0.032	15.07	0.053	17.22	4M52G7D
		16QAM	701.5 - 713.5	0.029	14.57	0.047	16.72	4M53W7D
	3 MHz	QPSK	700.5 - 714.5	0.032	15.05	0.052	17.20	2M72G7D
		16QAM	700.5 - 714.5	0.028	14.44	0.046	16.59	2M71W7D
	1.4 MHz	QPSK	699.7 - 715.3	0.033	15.13	0.053	17.28	1M11G7D
		16QAM	699.7 - 715.3	0.027	14.36	0.045	16.51	1M10W7D
LTE Band 13 (Main ANT)	10 MHz	QPSK	782.0	0.043	16.33	0.071	18.48	9M00G7D
		16QAM	782.0	0.039	15.87	0.063	18.02	9M01W7D
	5 MHz	QPSK	779.5 - 784.5	0.045	16.49	0.073	18.64	4M53G7D
		16QAM	779.5 - 784.5	0.040	16.03	0.066	18.18	4M52W7D
NR Band n71	20 MHz	$\pi/2$ BPSK	673.0 - 688.0	0.025	14.06	0.042	16.21	18M0G7D
		QPSK	673.0 - 688.0	0.024	13.89	0.040	16.04	19M0G7D
		16QAM	673.0 - 688.0	0.022	13.44	0.036	15.59	19M0W7D
	15 MHz	$\pi/2$ BPSK	670.5 - 690.5	0.025	14.03	0.042	16.18	13M5G7D
		QPSK	670.5 - 690.5	0.026	14.10	0.042	16.25	14M2G7D
		16QAM	670.5 - 690.5	0.022	13.42	0.036	15.57	14M2W7D
	10 MHz	$\pi/2$ BPSK	668.0 - 693.0	0.025	13.95	0.041	16.10	9M03G7D
		QPSK	668.0 - 693.0	0.024	13.85	0.040	16.00	9M32G7D
		16QAM	668.0 - 693.0	0.022	13.34	0.035	15.49	9M35W7D
	5 MHz	$\pi/2$ BPSK	665.5 - 695.5	0.026	14.20	0.043	16.35	4M59G7D
		QPSK	665.5 - 695.5	0.026	14.10	0.042	16.25	4M54G7D
		16QAM	665.5 - 695.5	0.021	13.13	0.034	15.28	4M51W7D

EUT Overview (LTE/NR Bands <1GHz)

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 12/17 (Sub ANT)	10 MHz	QPSK	704.0 - 711.0	0.039	15.87	0.063	18.02	9M02G7D
		16QAM	704.0 - 711.0	0.033	15.14	0.054	17.29	9M03W7D
	5 MHz	QPSK	701.5 - 713.5	0.040	15.98	0.065	18.13	4M53G7D
		16QAM	701.5 - 713.5	0.034	15.35	0.056	17.50	4M54W7D
	3 MHz	QPSK	700.5 - 714.5	0.038	15.85	0.063	18.00	2M72G7D
		16QAM	700.5 - 714.5	0.034	15.28	0.055	17.43	2M73W7D
	1.4 MHz	QPSK	699.7 - 715.3	0.039	15.87	0.063	18.02	1M11G7D
		16QAM	699.7 - 715.3	0.034	15.26	0.055	17.41	1M11W7D
LTE Band 13 (Sub ANT)	10 MHz	QPSK	782.0	0.054	17.32	0.089	19.47	9M01G7D
		16QAM	782.0	0.046	16.66	0.076	18.81	9M03W7D
	5 MHz	QPSK	779.5 - 784.5	0.055	17.38	0.090	19.53	4M55G7D
		16QAM	779.5 - 784.5	0.048	16.85	0.079	19.00	4M54W7D

EUT Overview (LTE Bands <1GHz)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 3 of 198

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	0.041	16.17	4M19F9W

EUT Overview (WCDMA)

Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator	
				Max. Power [W]	Max. Power [dBm]		
LTE Band 66/4	20 MHz	QPSK	1720.0 - 1770.0	0.138	21.41	18M1G7D	
		16QAM	1720.0 - 1770.0	0.071	18.54	18M1W7D	
	15 MHz	QPSK	1717.5 - 1772.5	0.137	21.38	13M5G7D	
		16QAM	1717.5 - 1772.5	0.065	18.14	13M6W7D	
	10 MHz	QPSK	1715.0 - 1775.0	0.141	21.49	9M02G7D	
		16QAM	1715.0 - 1775.0	0.069	18.36	9M04W7D	
	5 MHz	QPSK	1712.5 - 1777.5	0.144	21.60	4M54G7D	
		16QAM	1712.5 - 1777.5	0.074	18.67	4M55W7D	
	3 MHz	QPSK	1711.5 - 1778.5	0.140	21.46	2M72G7D	
		16QAM	1711.5 - 1778.5	0.067	18.23	2M73W7D	
	1.4 MHz	QPSK	1710.7 - 1779.3	0.140	21.45	1M10G7D	
		16QAM	1710.7 - 1779.3	0.067	18.27	1M11W7D	
	NR Band n66	20 MHz	π/2 BPSK	1720.0 - 1770.0	0.151	21.78	18M0G7D
			QPSK	1720.0 - 1770.0	0.152	21.81	19M1G7D
16QAM			1720.0 - 1770.0	0.117	20.70	19M1W7D	
15 MHz		π/2 BPSK	1717.5 - 1772.5	0.150	21.76	13M6G7D	
		QPSK	1717.5 - 1772.5	0.150	21.76	14M2G7D	
		16QAM	1717.5 - 1772.5	0.117	20.69	14M3W7D	
10 MHz		π/2 BPSK	1715.0 - 1775.0	0.144	21.57	9M04G7D	
		QPSK	1715.0 - 1775.0	0.146	21.64	9M36G7D	
		16QAM	1715.0 - 1775.0	0.118	20.71	9M37W7D	
5 MHz		π/2 BPSK	1712.5 - 1777.5	0.138	21.41	4M59G7D	
	QPSK	1712.5 - 1777.5	0.142	21.52	4M53G7D		
	16QAM	1712.5 - 1777.5	0.118	20.70	4M52W7D		

EUT Overview (LTE/NR Bands >1GHz)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 4 of 198

1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

These measurement tests were conducted at the Element laboratory 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 Element lab located in Columbia, MD 21046, U.S.A.

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

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 5 of 198

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Sony Portable Handset FCC ID: PY7-76056F**. 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.: 94880, 99864, 00001, 00308, 00084

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 (5 and 6 GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer

2.3 Test Configuration

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

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: Belkin F7U050 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version 0.45 installed on the EUT.

2.5 EMI Suppression Device(s)/Modifications

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

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 6 of 198

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:

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

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 $P_g [dBm] - \text{cable loss} [dB]$.

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:

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

And

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

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.

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 7 of 198

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

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 8 of 198

V3.0 1/5/2022

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	1/4/2022	Annual	1/4/2023	AP2
-	ETS	EMC Cable and Switch System	12/9/2021	Annual	12/9/2022	ETS
-	MVG	EMC Cable and Switch System	3/10/2022	Annual	3/10/2023	MVG
-	LTx4	Licensed Transmitter Cable Set	12/19/2021	Annual	12/19/2022	LTx4
-	LTx5	Licensed Transmitter Cable Set	12/19/2021	Annual	12/19/2022	LTx5
Anritsu	MT8821C	Radio Communication Analyzer	N/A			6201525694
Emco	3115	Horn Antenna (1-18GHz)	6/18/2020	Biennial	9/25/2022	9704-5182
Emco	3116	Horn Antenna (18 - 40GHz)	7/20/2021	Biennial	7/20/2023	9203-2178
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	4/20/2021	Biennial	4/20/2023	00125518
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	2/14/2022	Annual	2/14/2023	MY52350166
Keysight Technologies	E7515B	UXM 5G Wireless Test Platform	1/12/2022	Annual	1/12/2023	MY59150289
Rohde & Schwarz	CMW500	Radio Communication Tester	N/A			112347
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	8/3/2021	Annual	8/25/2022	100342
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/28/2022	Annual	3/28/2023	101716
Rohde & Schwarz	FSW26	2Hz-26.5GHz Signal and Spectrum Analyzer	4/14/2022	Annual	4/14/2023	103187
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	7/27/2020	Biennial	9/25/2022	A051107

Table 5-1. Test Equipment

Notes:

1. 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.
2. Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 9 of 198

6.0 SAMPLE CALCULATIONS

Emission Designator

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 $- (-24.80)$.

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 10 of 198

V3.0 1/5/2022

7.0 TEST RESULTS

7.1 Summary

Company Name: Sony Corporation
 FCC ID: PY7-76056F
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): WCDMA/LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power*	2.1046(a), 2.1046(c)	N/A	PASS	Section 7.2
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3
	Conducted Band Edge / Spurious Emissions (LTE Band 13)	2.1051, 27.53(c), 27.53(f)	Undesirable emissions must meet the limits detailed in sections 27.53(c) and 27.53(f)	PASS	Sections 7.4, 7.5
	Conducted Band Edge / Spurious Emissions (LTE Band 12, 17, 71; NR Band n12, n71)	2.1051, 27.53(g)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Sections 7.4, 7.5
	Conducted Band Edge / Spurious Emissions (WCDMA AWS; LTE Band 4, 66; NR Band n66)	2.1051, 27.53(h)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Sections 7.4, 7.5
	Peak-to-Average Ratio (WCDMA AWS; LTE Band 4, 66; NR Band n66)	27.50(d)(5)	≤ 13 dB	PASS	Section 7.6
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block	PASS	Section 7.9
RADIATED	Effective Radiated Power (LTE Band 13)	27.50(b)(10)	≤ 3 Watts max. ERP	PASS	Section 7.7
	Effective Radiated Power (LTE Band 12, 17, 71; NR Band n12, n71)	27.50(c)(10)	≤ 3 Watts max. ERP	PASS	Section 7.7
	Equivalent Isotropic Radiated Power (WCDMA AWS; LTE Band 4, 66; NR Band n66)	27.50(d)(4)	≤ 1 Watt max. EIRP	PASS	Section 7.7
	Radiated Spurious Emissions (LTE Band 13)	2.1053, 27.53(c), 27.53(f)	Undesirable emissions must meet the limits detailed in sections 27.53(c) and 27.53(f)	PASS	Section 7.8
	Radiated Spurious Emissions (LTE Band 12, 17, 71; NR Band n12, n71)	2.1053, 27.53(g)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Section 7.8
	Radiated Spurious Emissions (WCDMA AWS; LTE Band 4, 66; NR Band n66)	2.1053, 27.53(h)(1)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Section 7.8

Table 7-1. Result Summary

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 11 of 198

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 EMC Software Tool v1.0.

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 12 of 198

V3.0 1/5/2022

7.2 Conducted Output Power Data

Test Overview

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

Test Procedure Used

ANSI C63.26-2015 – Section 5.2

Test Settings

1. Detector = RMS
2. Trace mode = trace average for continuous emissions, max hold for pulse emissions
3. Sweep time = auto couple
4. The trace was allowed to stabilize
5. 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.

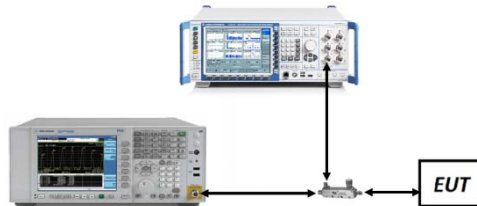


Figure 7-1. Test Instrument & Measurement Setup

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.

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 13 of 198

V3.0 1/5/2022

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	QPSK	23060	704.0	1 / 0	23.40
		23095	707.5	1 / 25	23.47
		23130	711.0	1 / 25	23.41
	16-QAM	23095	707.5	1 / 0	22.77
5 MHz	QPSK	23035	701.5	1 / 12	23.65
		23095	707.5	1 / 12	23.58
		23155	713.5	1 / 12	23.48
	16-QAM	23095	707.5	1 / 24	22.98
3 MHz	QPSK	23025	700.5	1 / 7	23.47
		23095	707.5	1 / 7	23.45
		23165	714.5	1 / 7	23.34
	16-QAM	23025	700.5	1 / 7	22.91
1.4 MHz	QPSK	23017	699.7	1 / 0	23.50
		23095	707.5	1 / 0	23.47
		23173	715.3	1 / 5	23.40
	16-QAM	23173	715.3	1 / 5	22.89

Table 7-2. LTE Band 12/17 (Sub ANT) Conducted Output Power

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	QPSK	23230	782.0	1 / 0	23.74
	16-QAM	23230	782.0	1 / 25	22.87
5 MHz	QPSK	23205	779.5	1 / 0	23.80
		23230	782.0	1 / 12	23.63
		23255	784.5	1 / 12	23.60
	16-QAM	23255	784.5	1 / 0	23.06

Table 7-3. LTE Band 13 (Sub ANT) Conducted Output Power

NR (SCS 15kHz)						LTE						NR	LTE	EN-DC
NR Band	NR Bandwidth [MHz]	NR Channel	NR Frequency [MHz]	Mod.	NR RB#/Offset	LTE Band	LTE Bandwidth [MHz]	LTE Channel	LTE Frequency [MHz]	Mod.	LTE RB#/Offset	Conducted Power [dBm]	Conducted Power [dBm]	Total Tx. Power [dBm]
n71	20	Mid	680.5	$\pi/2$ BPSK	1/53	B2	20	Mid	1880	QPSK	1/50	23.94	23.05	26.53
				QPSK	100/0					22.97	23.02	26.01		
				QPSK	100/0					22.94	23.11	26.04		
				QPSK	1/53					23.98	23.05	26.55		
				QPSK	1/53					23.95	23.09	26.55		
				16Q	1/53					22.74	23.23	26.00		

Table 7-4. EN-DC Conducted Powers (n71-B2)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 14 of 198



NR (SCS 15kHz)						LTE						NR	LTE	EN-DC
NR Band	NR Bandwidth [MHz]	NR Channel	NR Frequency [MHz]	Mod.	NR RB#/Offset	LTE Band	LTE Bandwidth [MHz]	LTE Channel	LTE Frequency [MHz]	Mod.	LTE RB#/Offset	Conducted Power [dBm]	Conducted Power [dBm]	Total Tx. Power [dBm]
n66	20	Mid	1745	$\pi/2$ BPSK	1/53	B13	10	Mid	782	QPSK	1/25	24.61	23.32	27.02
				QPSK	100/0					23.62	23.29	26.47		
				QPSK	100/0					23.63	23.38	26.52		
				QPSK	1/53					24.60	23.32	27.02		
				QPSK	1/53					24.62	23.31	27.02		
				16Q	1/53					23.59	23.48	26.55		

Table 7-5. EN-DC Conducted Powers (n66-B13)

NR (SCS 15kHz)						LTE						NR	LTE	EN-DC
NR Band	NR Bandwidth [MHz]	NR Channel	NR Frequency [MHz]	Mod.	NR RB#/Offset	LTE Band	LTE Bandwidth [MHz]	LTE Channel	LTE Frequency [MHz]	Mod.	LTE RB#/Offset	Conducted Power [dBm]	Conducted Power [dBm]	Total Tx. Power [dBm]
n66	20	Mid	1745	QPSK	100/0	B2	20	Mid	1880	QPSK	100/0	24.12	23.60	26.88
				QPSK	100/0					24.08	23.62	26.87		
				QPSK	1/53					24.93	23.65	27.35		
				QPSK	1/53					24.95	23.66	27.36		
				16Q	1/53					23.94	23.98	26.97		

Table 7-6. EN-DC Conducted Powers (n66-B2)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 15 of 198

7.3 Occupied Bandwidth

Test Overview

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

Test Procedure Used

ANSI C63.26-2015 – Section 5.4.4

Test Settings

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

Test Setup

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

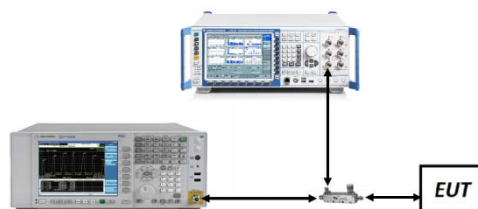


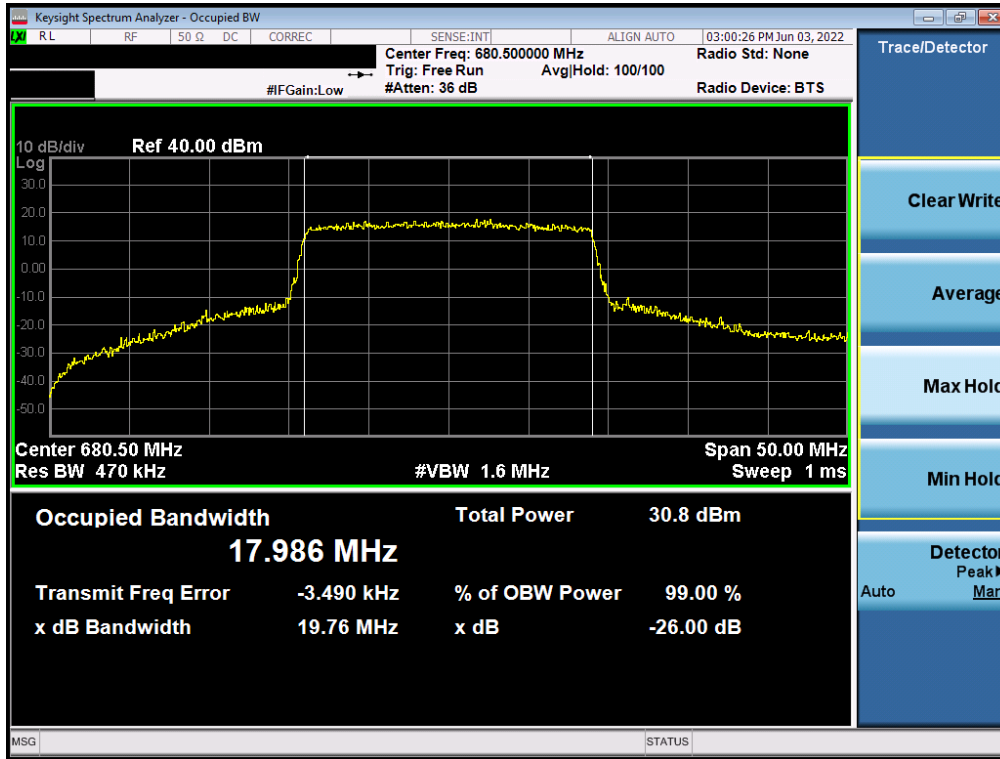
Figure 7-2. Test Instrument & Measurement Setup

Test Notes

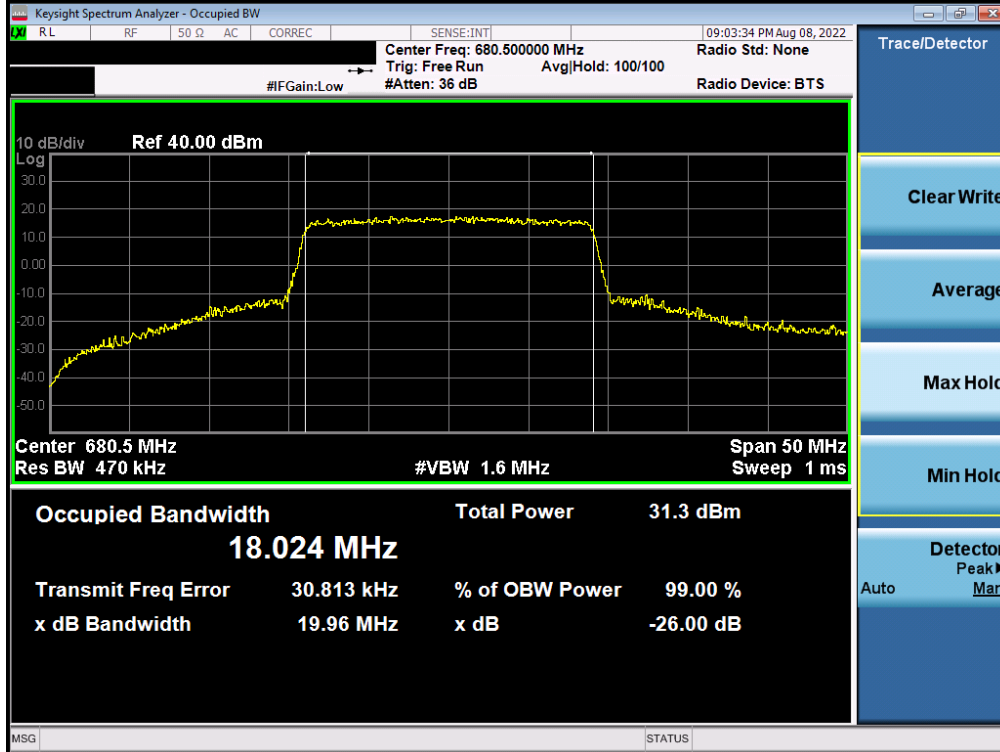
None.

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 16 of 198

LTE Band 71

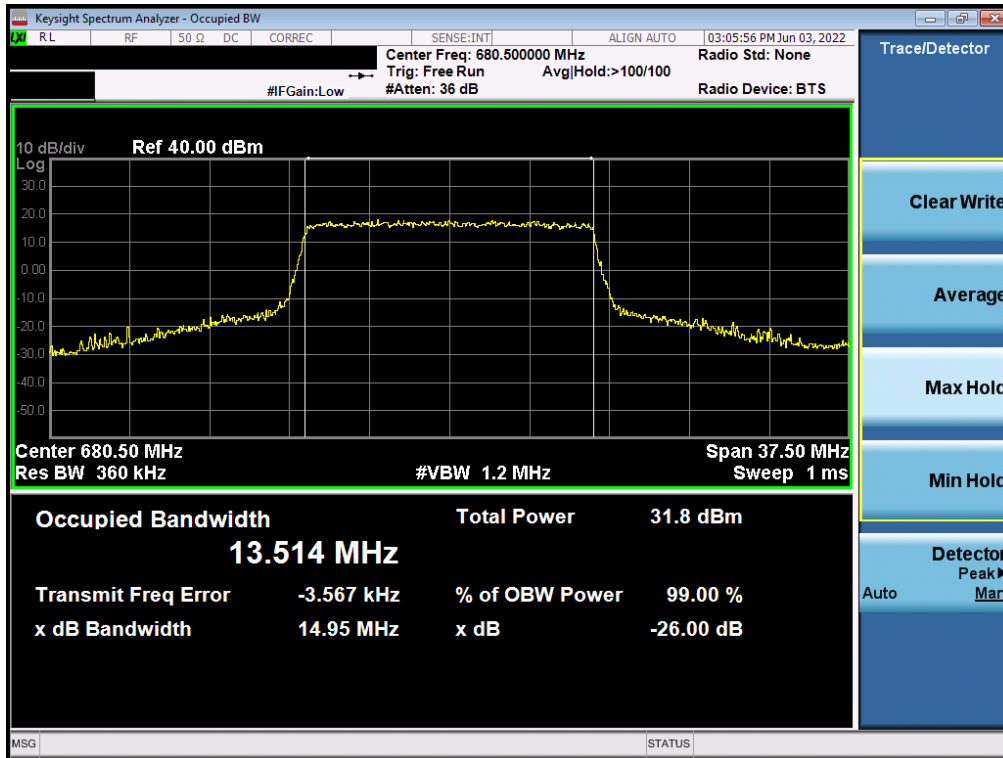


Plot 7-1. Occupied Bandwidth Plot (LTE Band 71 - 20MHz QPSK - Full RB Configuration)

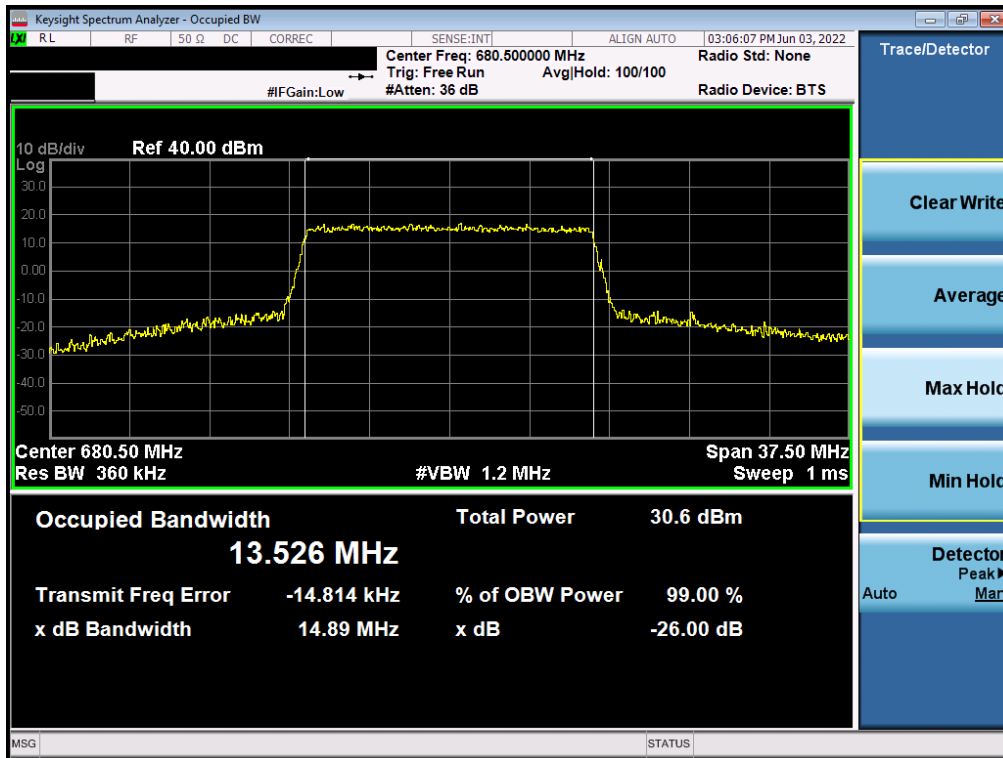


Plot 7-2. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 17 of 198

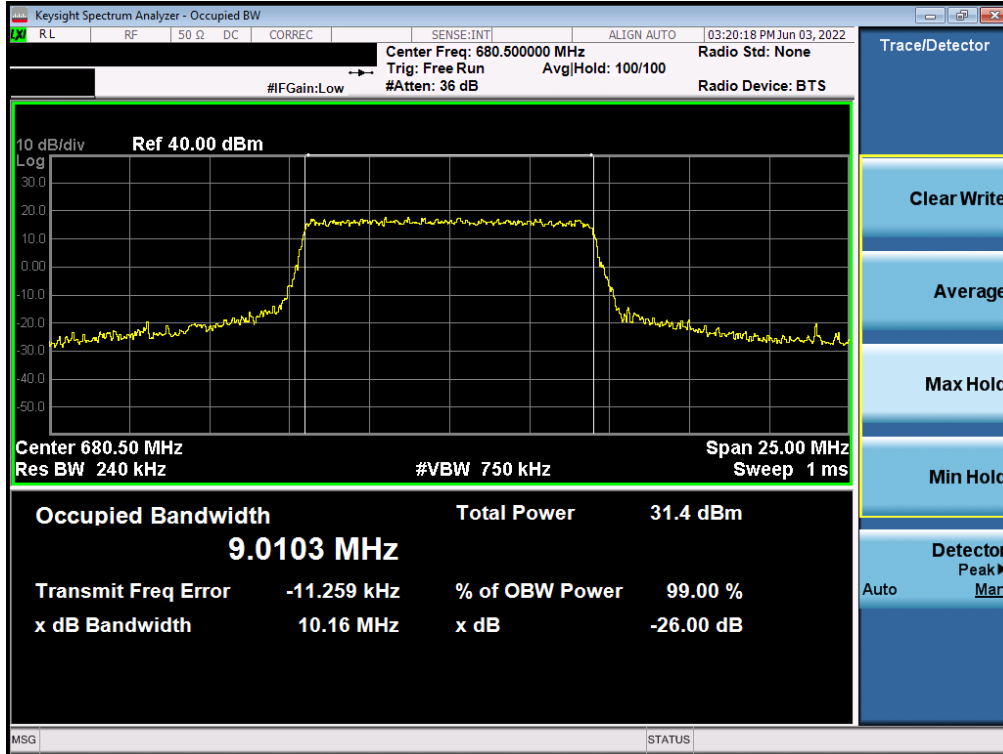


Plot 7-3. Occupied Bandwidth Plot (LTE Band 71 - 15MHz QPSK - Full RB Configuration)



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

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 18 of 198

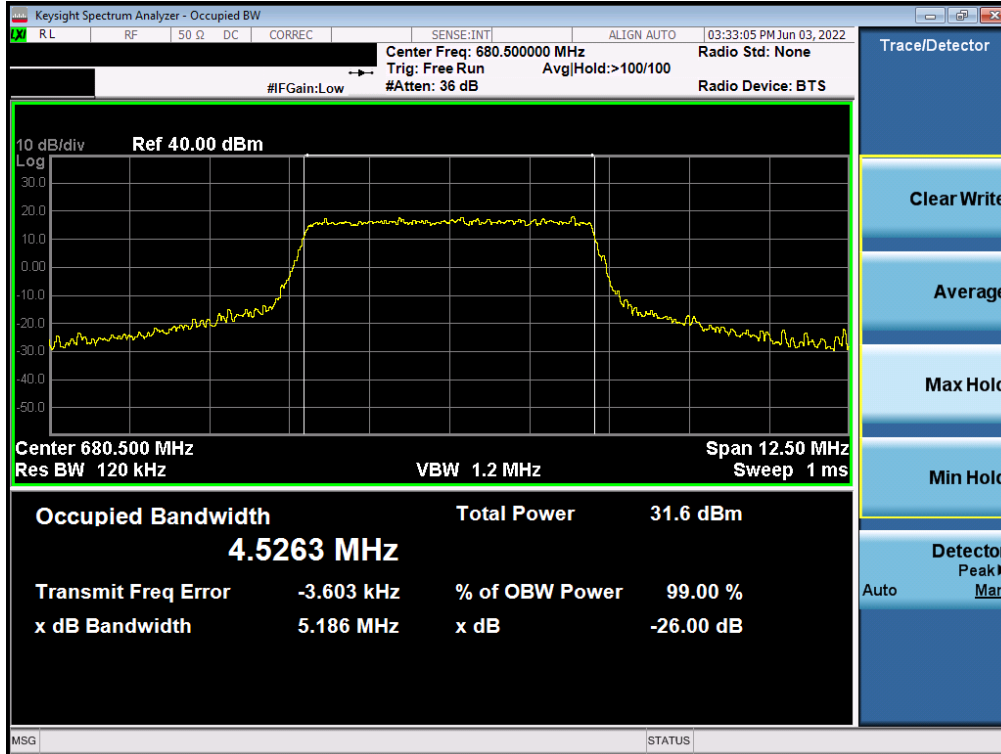


Plot 7-5. Occupied Bandwidth Plot (LTE Band 71 - 10MHz QPSK - Full RB Configuration)

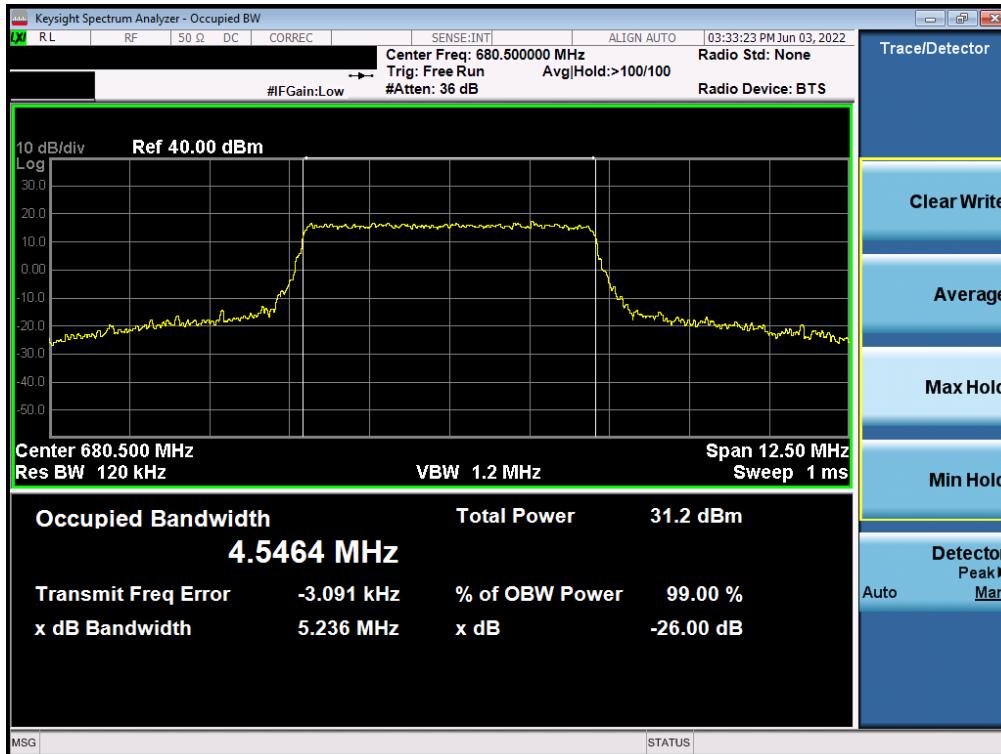


Plot 7-6. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 19 of 198



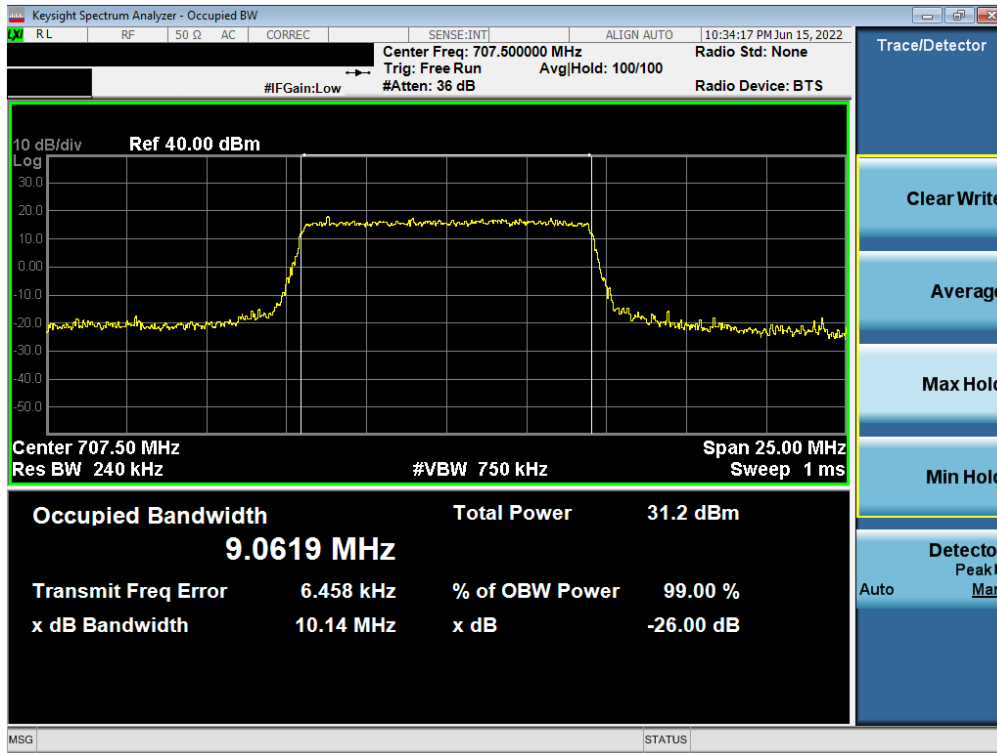
Plot 7-7. Occupied Bandwidth Plot (LTE Band 71 - 5MHz QPSK - Full RB Configuration)



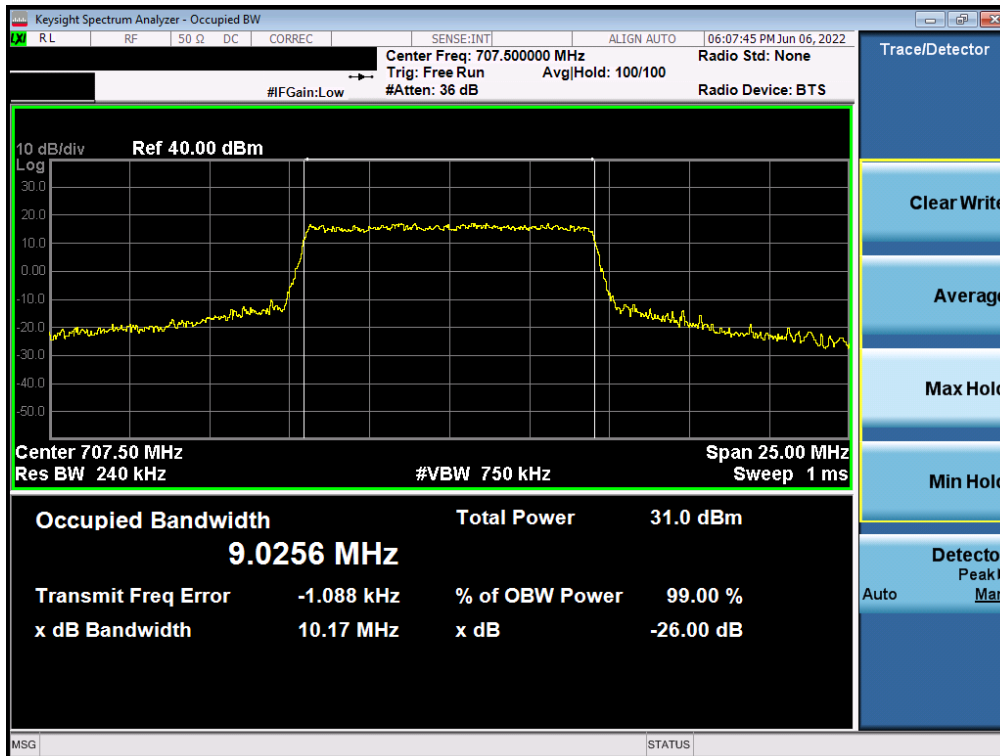
Plot 7-8. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 20 of 198

LTE Band 12/17 – Main ANT

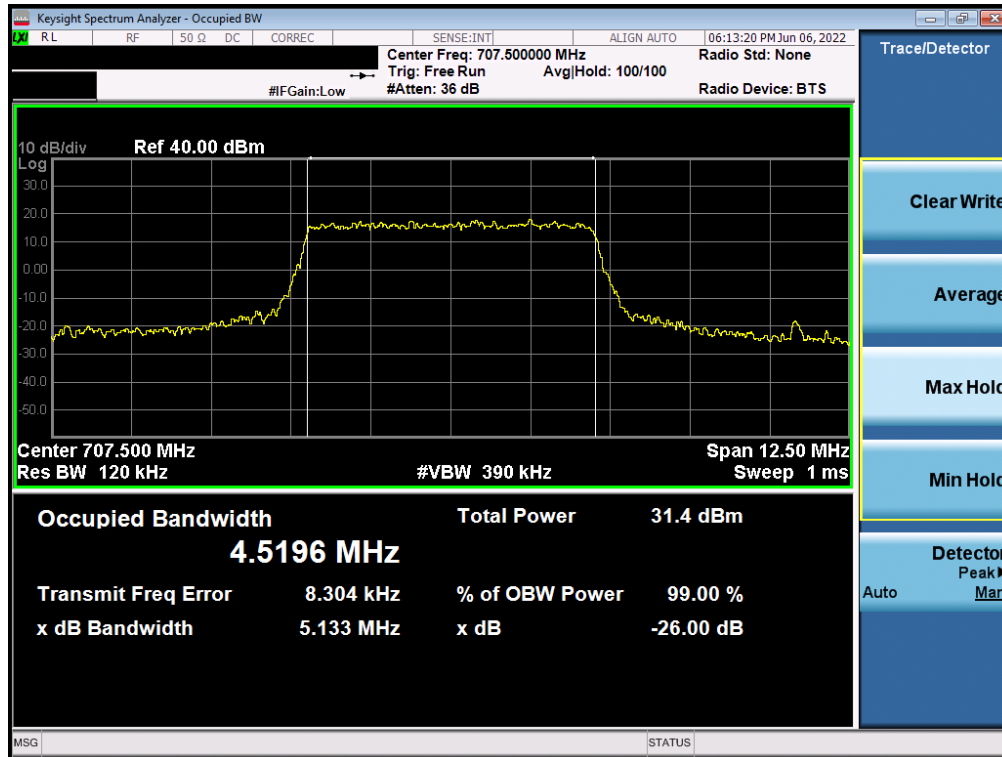


Plot 7-9. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz QPSK - Full RB Configuration – Main ANT)

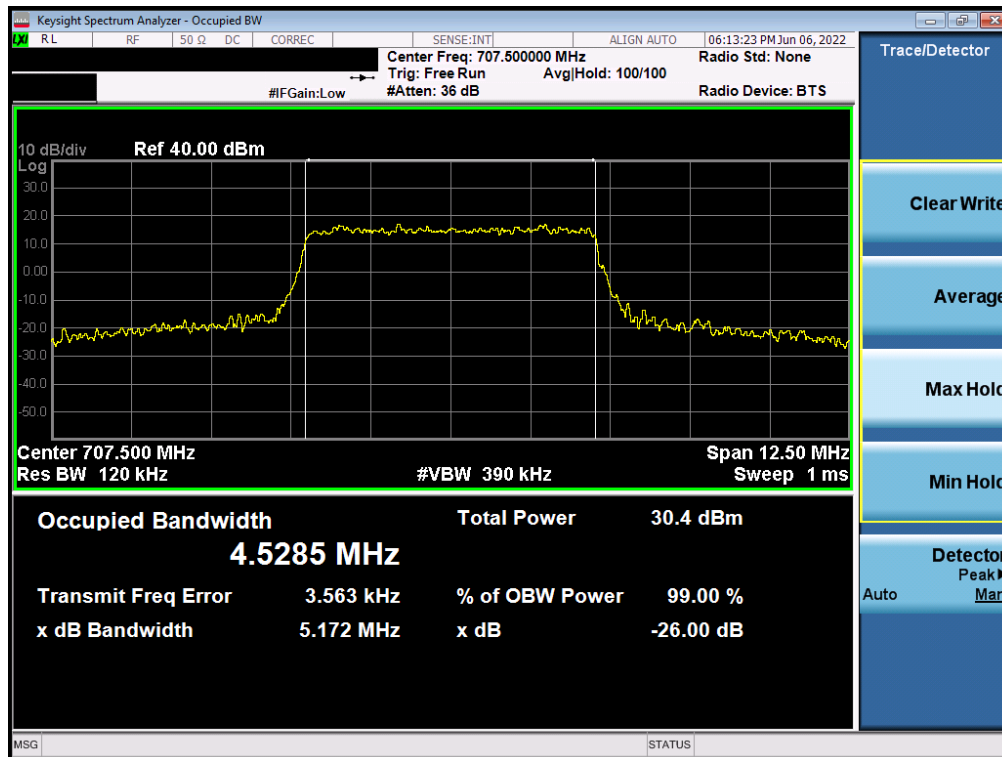


Plot 7-10. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 16-QAM - Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 21 of 198

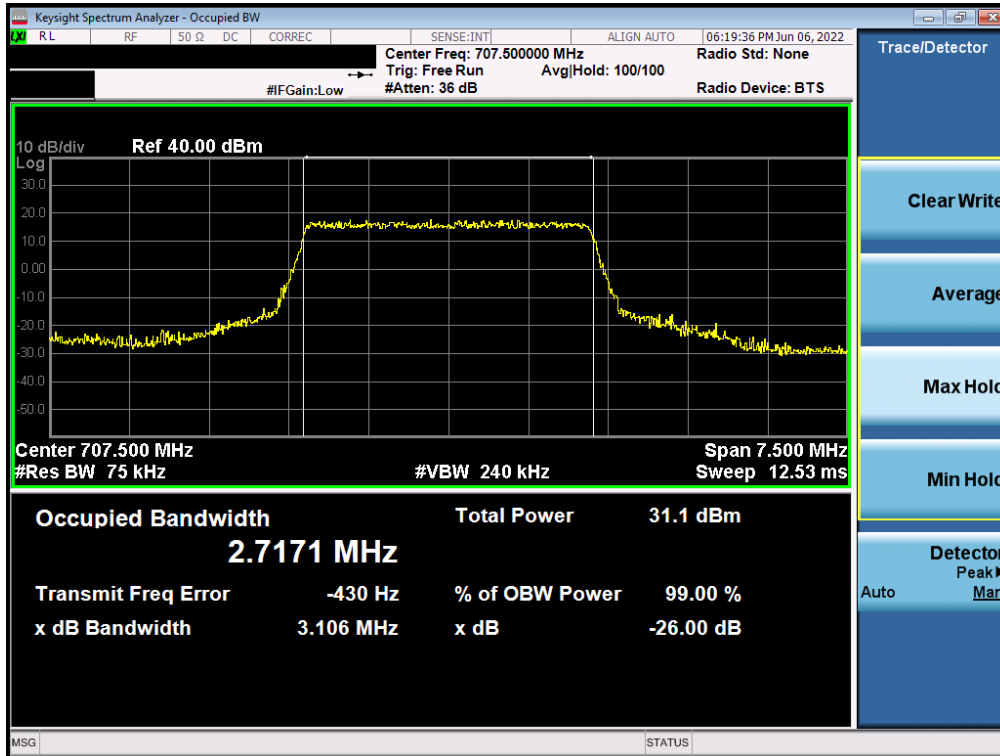


Plot 7-11. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz QPSK - Full RB Configuration – Main ANT)



Plot 7-12. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 16-QAM - Full RB Configuration – Main ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 22 of 198	

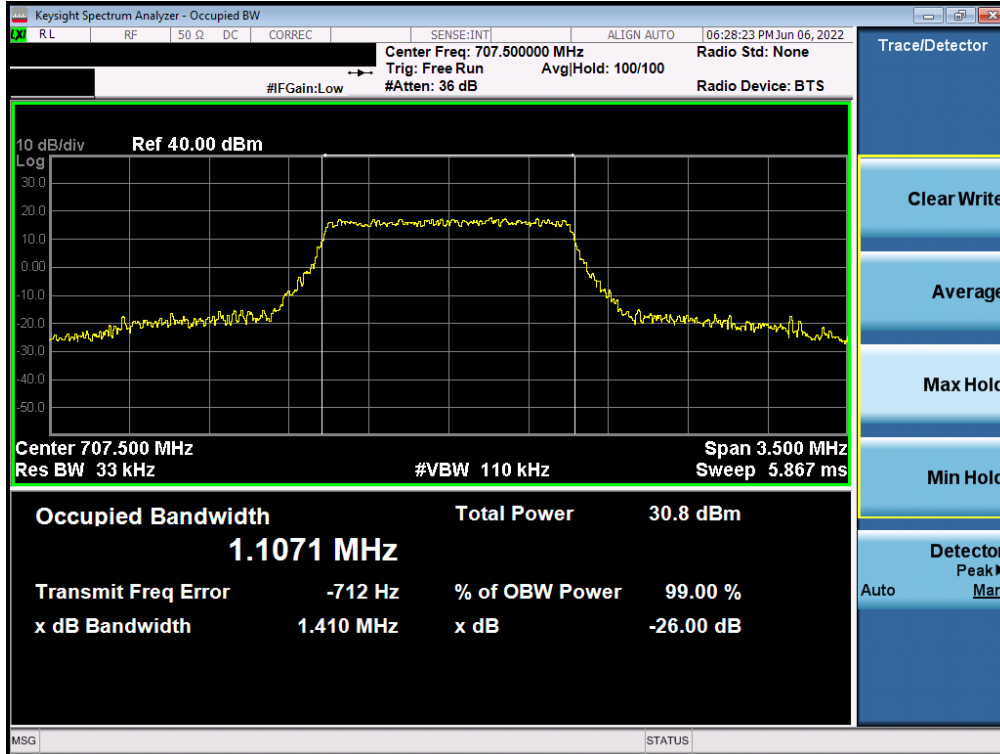


Plot 7-13. Occupied Bandwidth Plot (LTE Band 12/17 - 3MHz QPSK - Full RB Configuration – Main ANT)

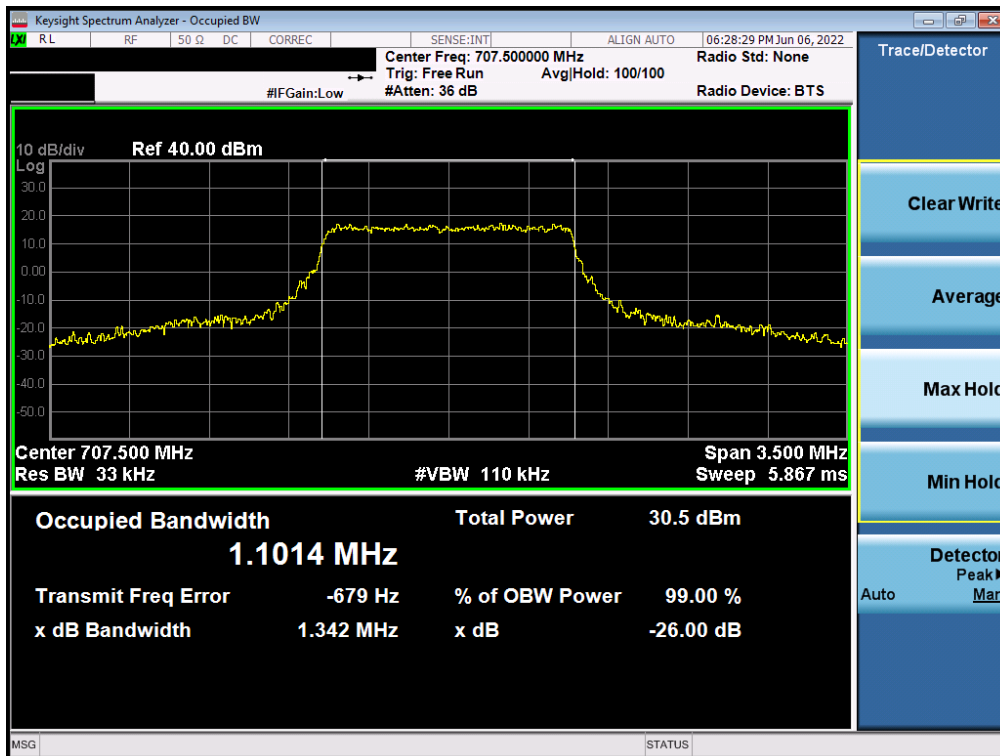


Plot 7-14. Occupied Bandwidth Plot (LTE Band 12/17 - 3MHz 16-QAM - Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 23 of 198



Plot 7-15. Occupied Bandwidth Plot (LTE Band 12/17 – 1.4MHz QPSK - Full RB Configuration – Main ANT)



Plot 7-16. Occupied Bandwidth Plot (LTE Band 12/17 - 1.4MHz 16-QAM - Full RB Configuration - Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 24 of 198

LTE Band 13 – Main ANT

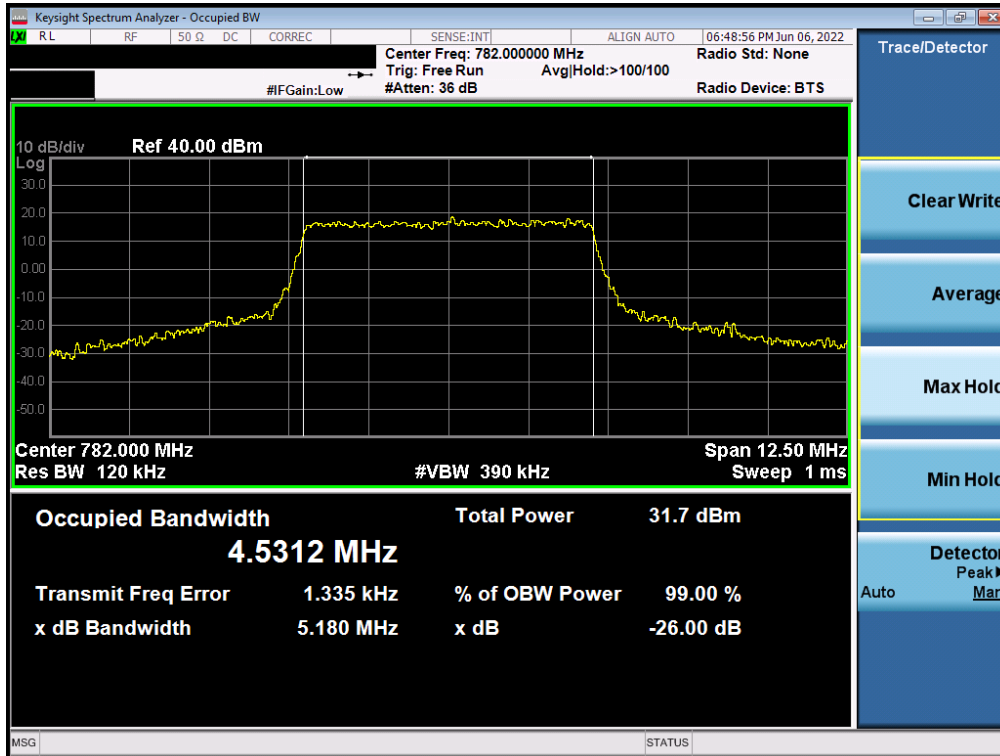


Plot 7-17. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB Configuration – Main ANT)

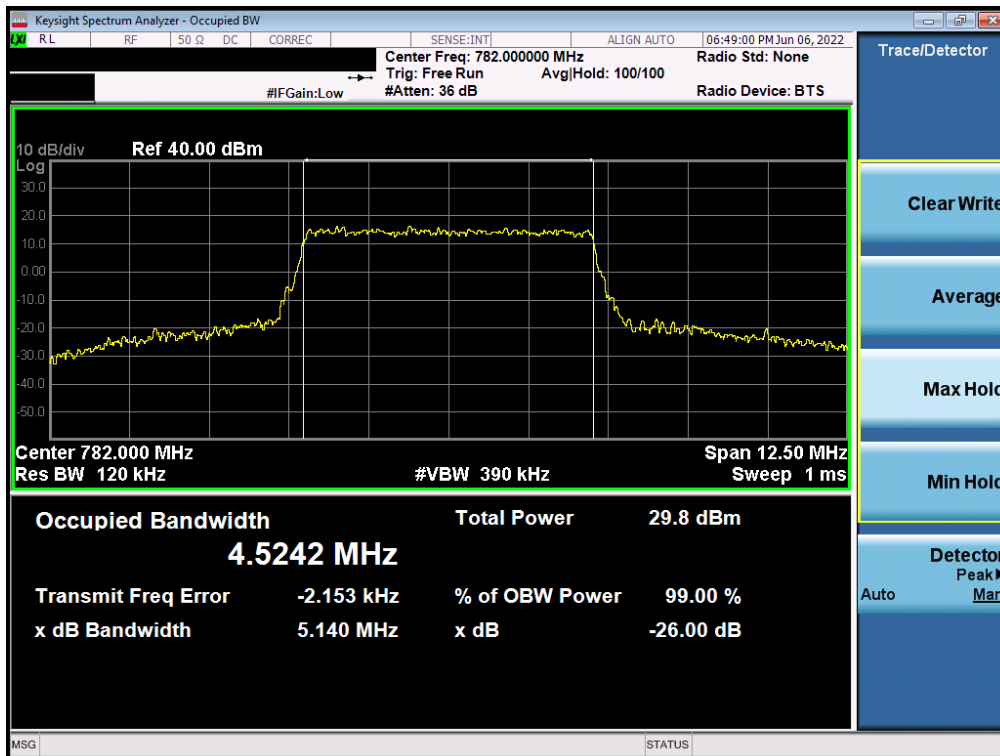


Plot 7-18. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 25 of 198



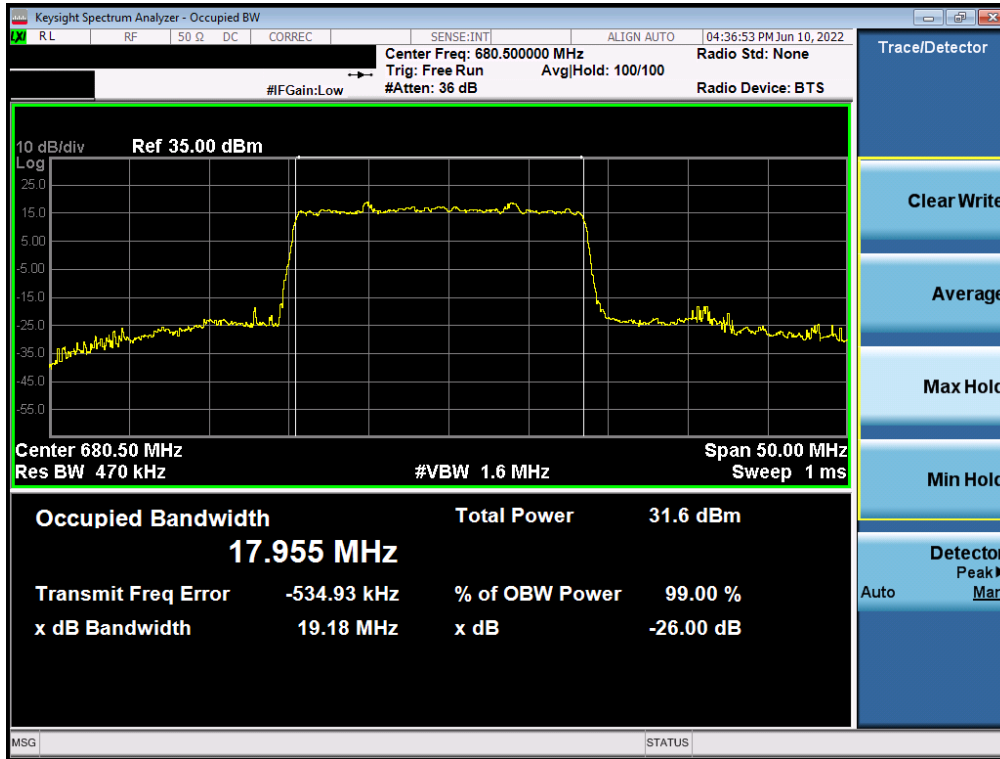
Plot 7-19. Occupied Bandwidth Plot (LTE Band 13 - 5MHz QPSK - Full RB Configuration – Main ANT)



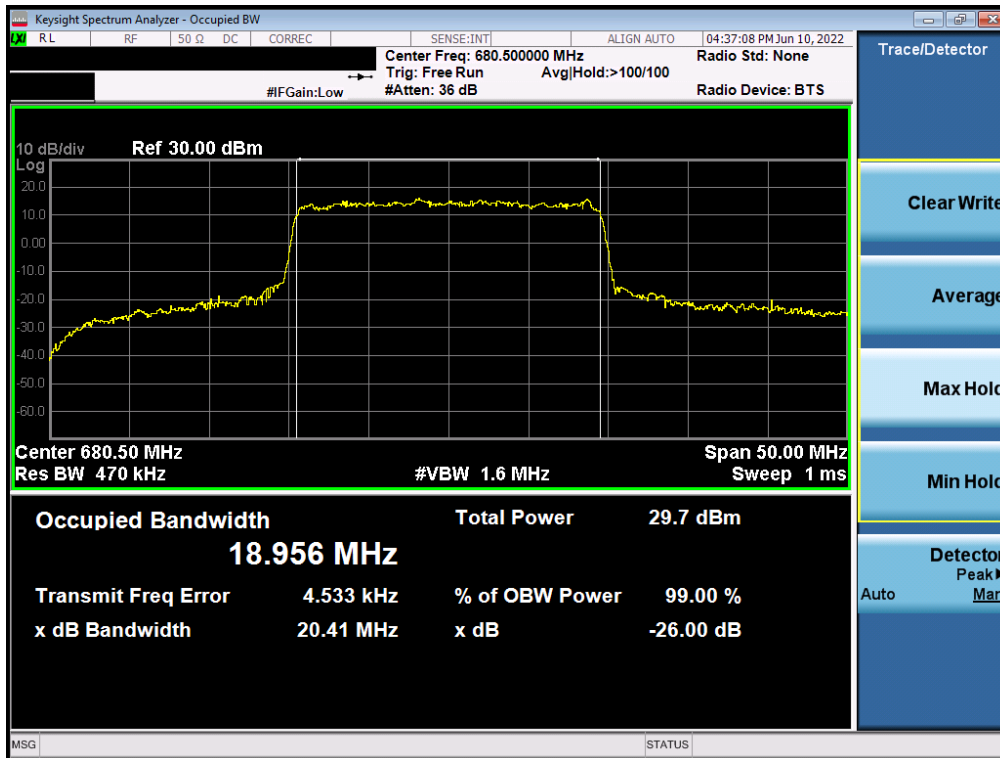
Plot 7-20. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 26 of 198

NR Band n71

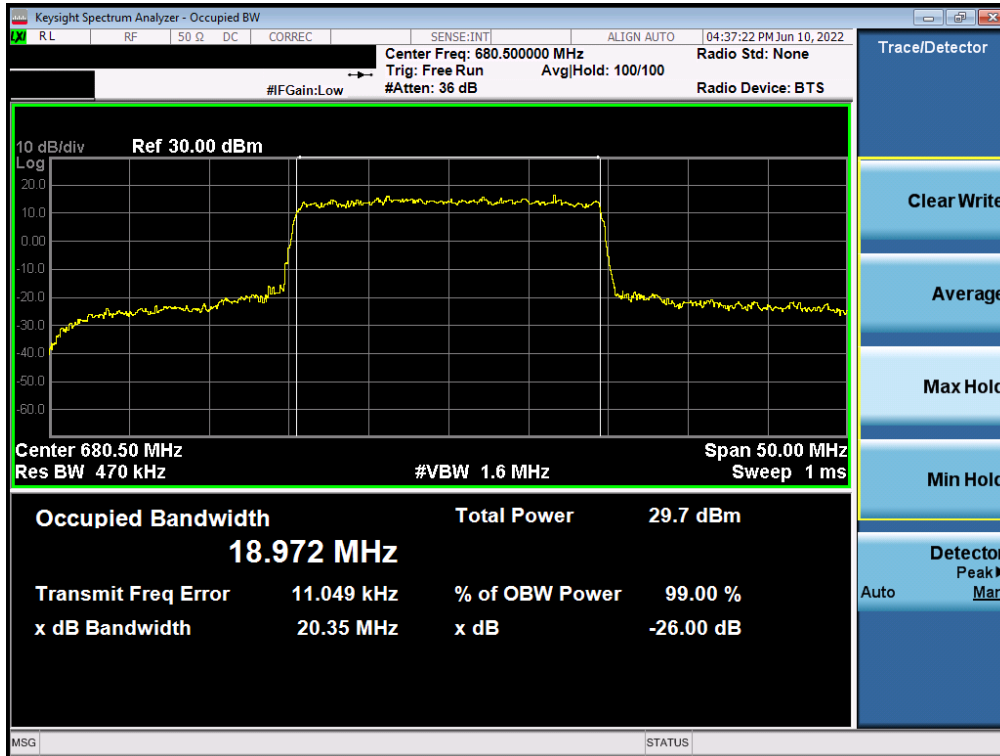


Plot 7-21. Occupied Bandwidth Plot (NR Band n71 - 20MHz BPSK - Full RB Configuration)

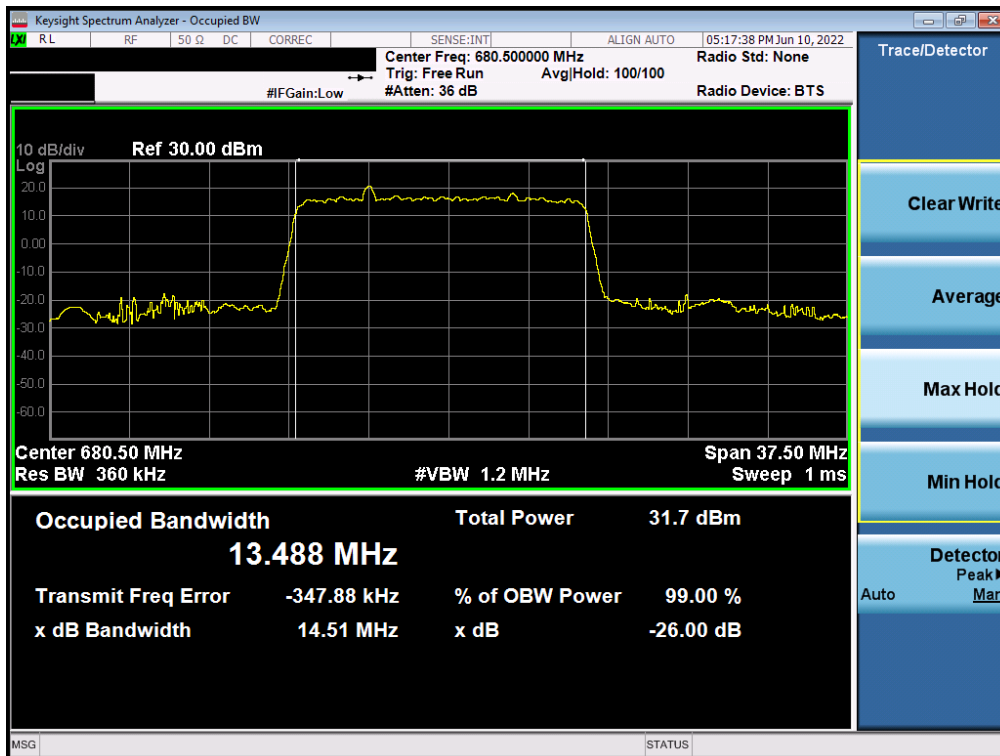


Plot 7-22. Occupied Bandwidth Plot (NR Band n71 - 20MHz QPSK - Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 27 of 198	

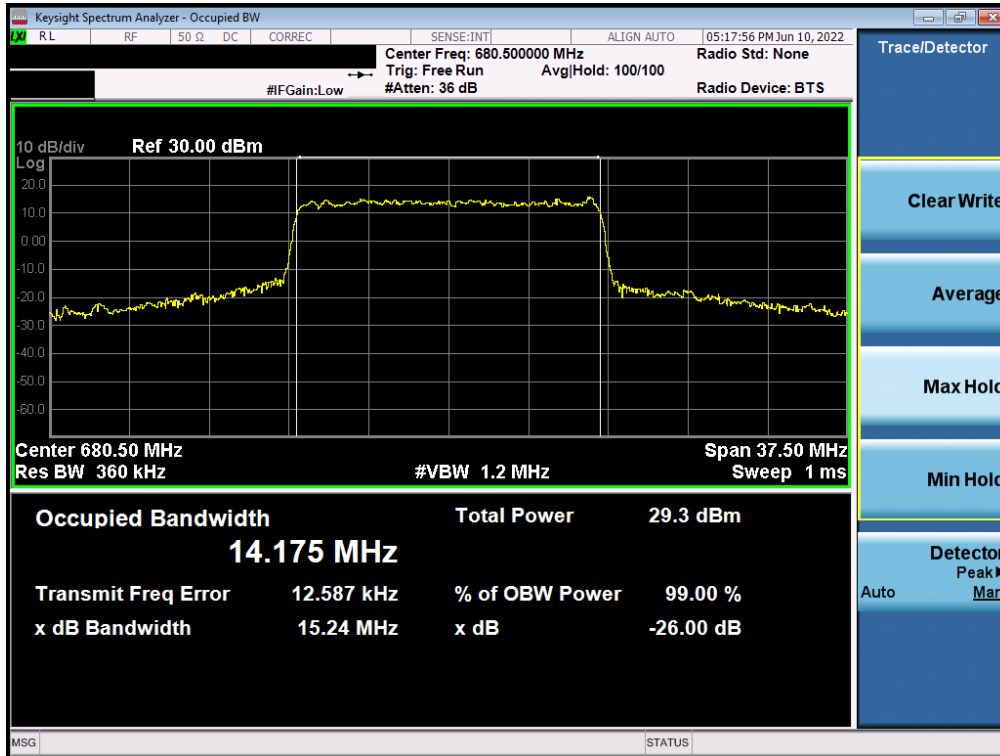


Plot 7-23. Occupied Bandwidth Plot (NR Band n71 - 20MHz 16-QAM - Full RB Configuration)

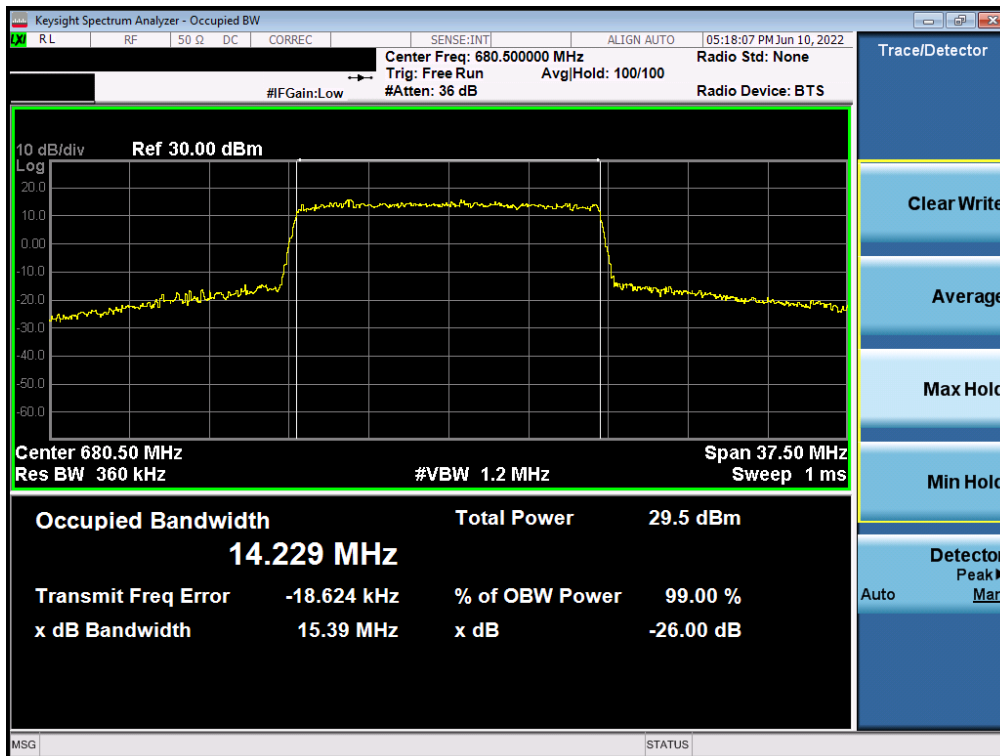


Plot 7-24. Occupied Bandwidth Plot (NR Band n71 - 15MHz BPSK - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 28 of 198

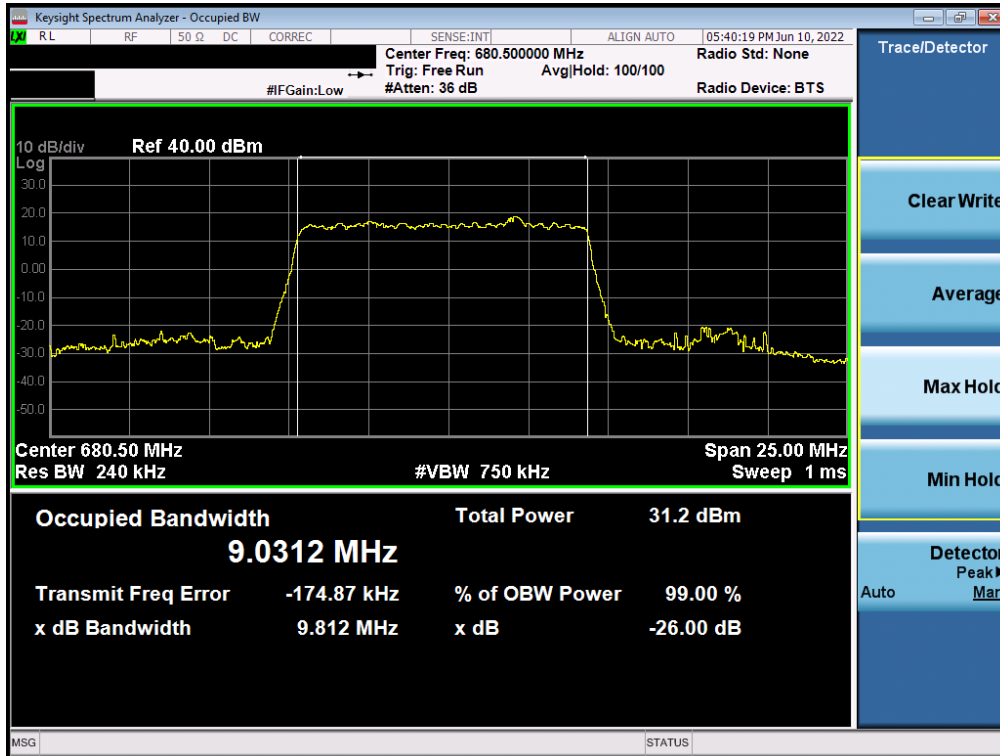


Plot 7-25. Occupied Bandwidth Plot (NR Band n71 - 15MHz QPSK - Full RB Configuration)

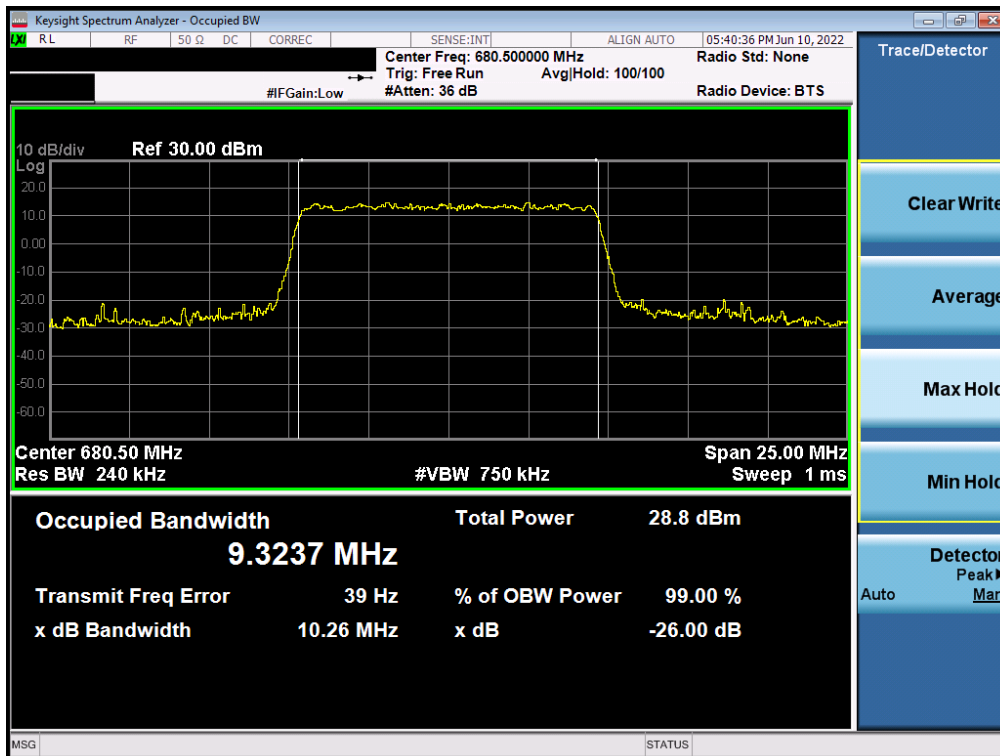


Plot 7-26. Occupied Bandwidth Plot (NR Band n71 - 15MHz 16-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 29 of 198

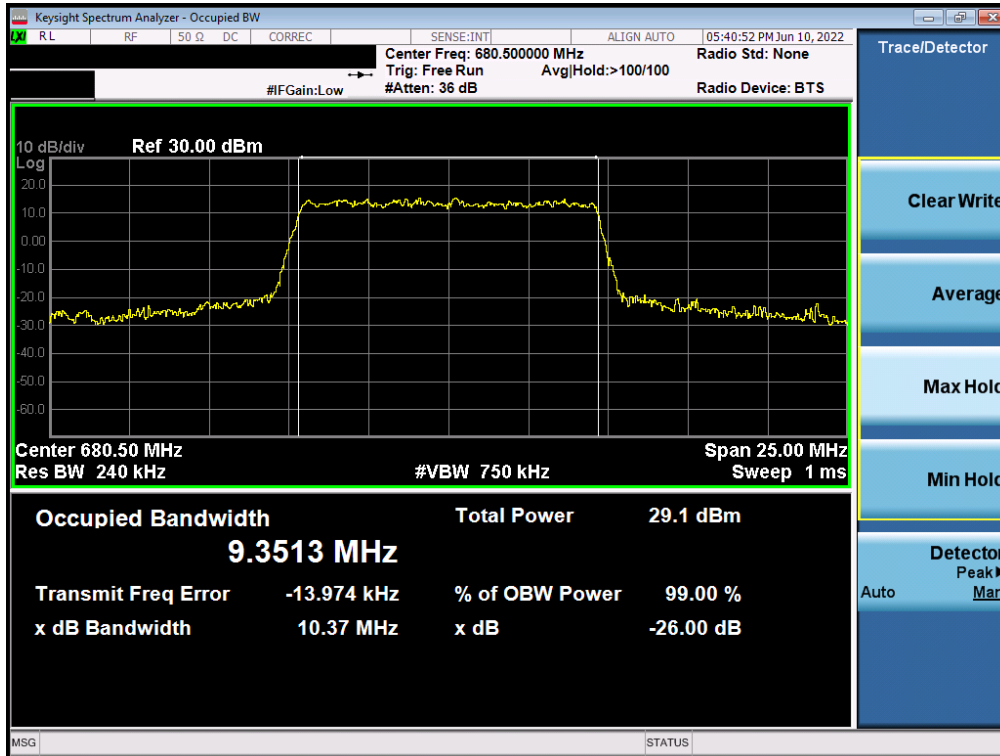


Plot 7-27. Occupied Bandwidth Plot (NR Band n71 - 10MHz BPSK - Full RB Configuration)

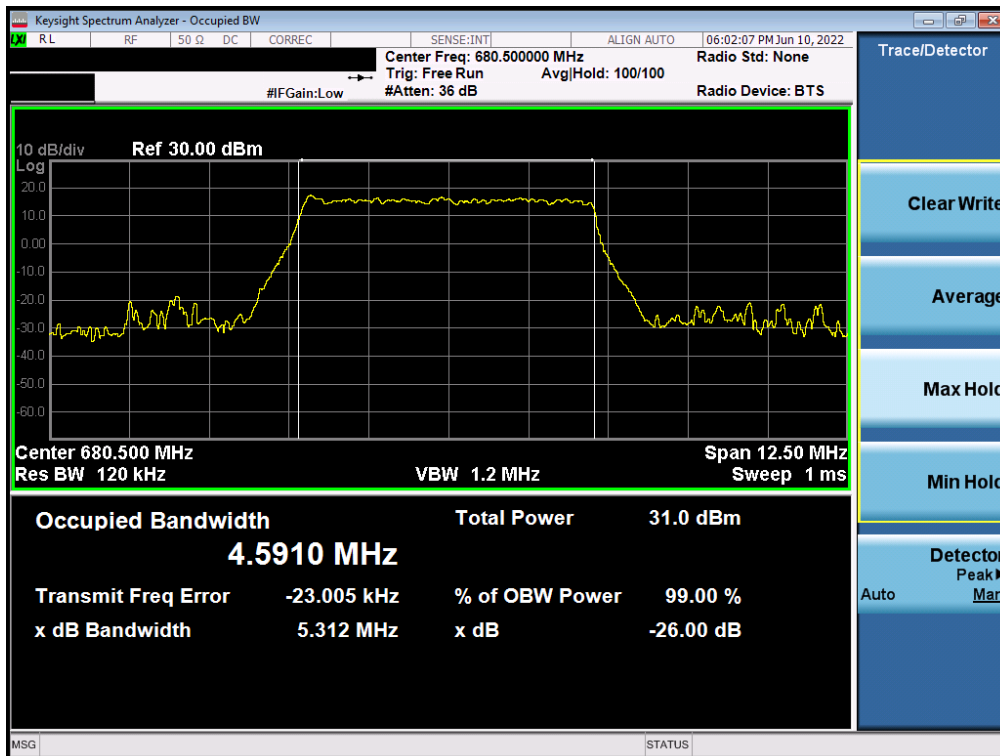


Plot 7-28. Occupied Bandwidth Plot (NR Band n71 - 10MHz QPSK - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 30 of 198

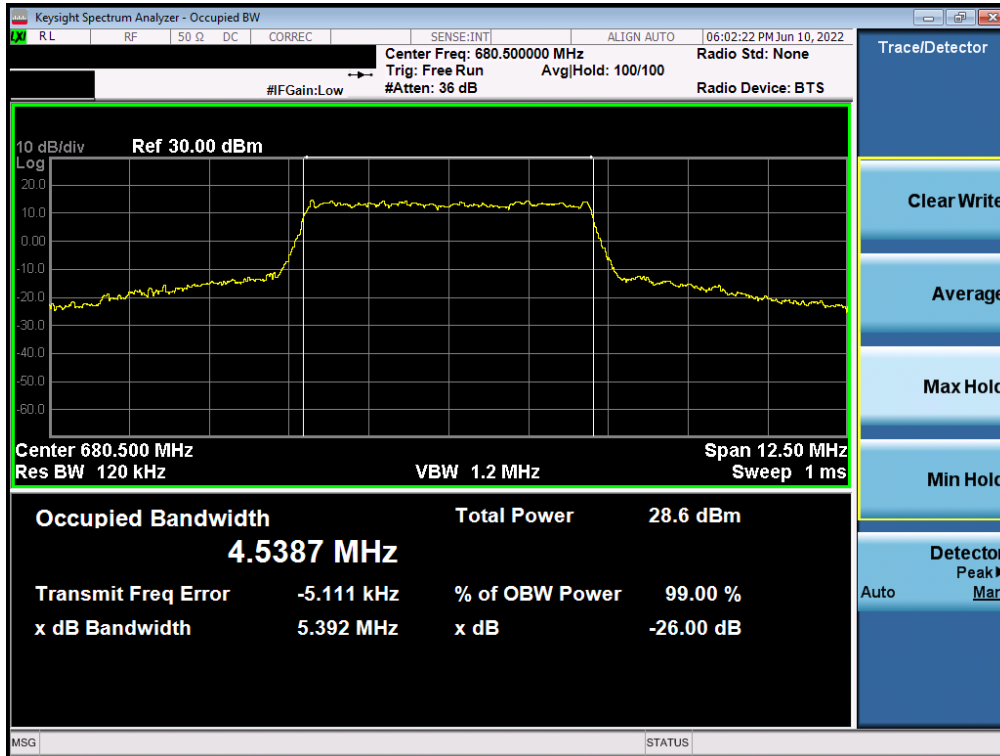


Plot 7-29. Occupied Bandwidth Plot (NR Band n71 - 10MHz 16-QAM - Full RB Configuration)

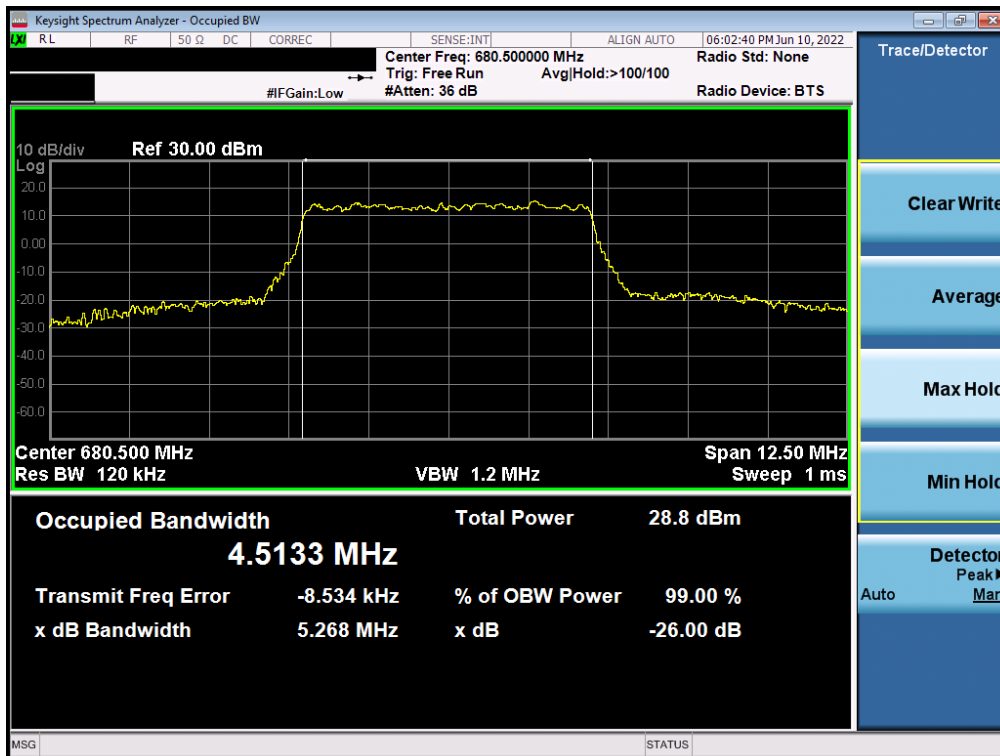


Plot 7-30. Occupied Bandwidth Plot (NR Band n71 - 5MHz BPSK - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 31 of 198



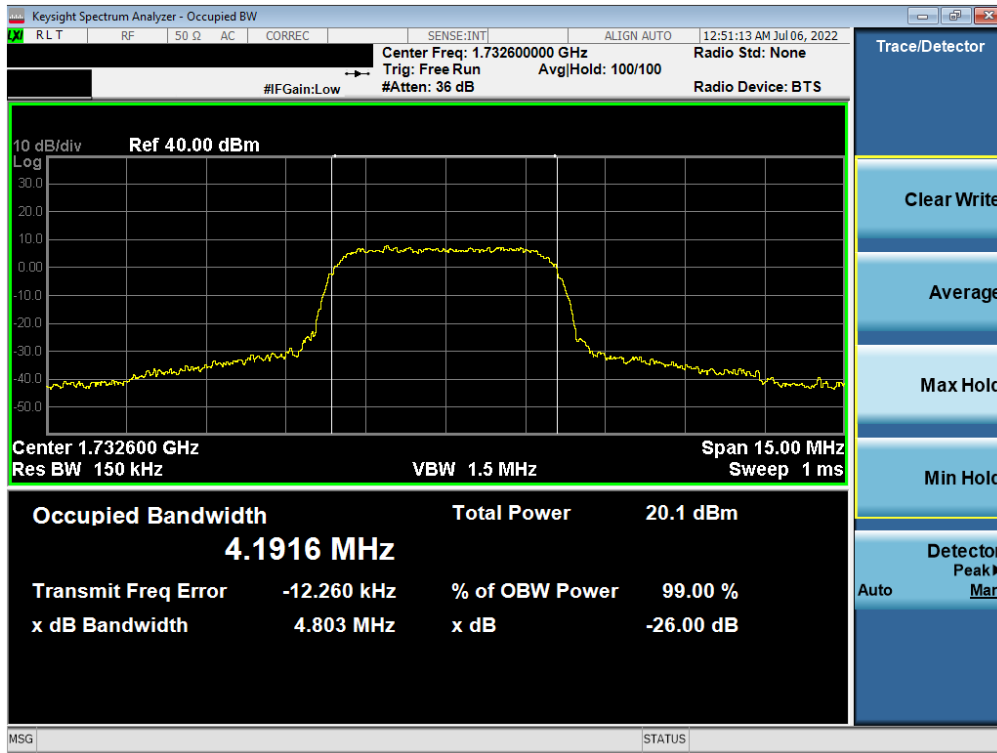
Plot 7-31. Occupied Bandwidth Plot (NR Band n71 - 5MHz QPSK - Full RB Configuration)



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

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 32 of 198

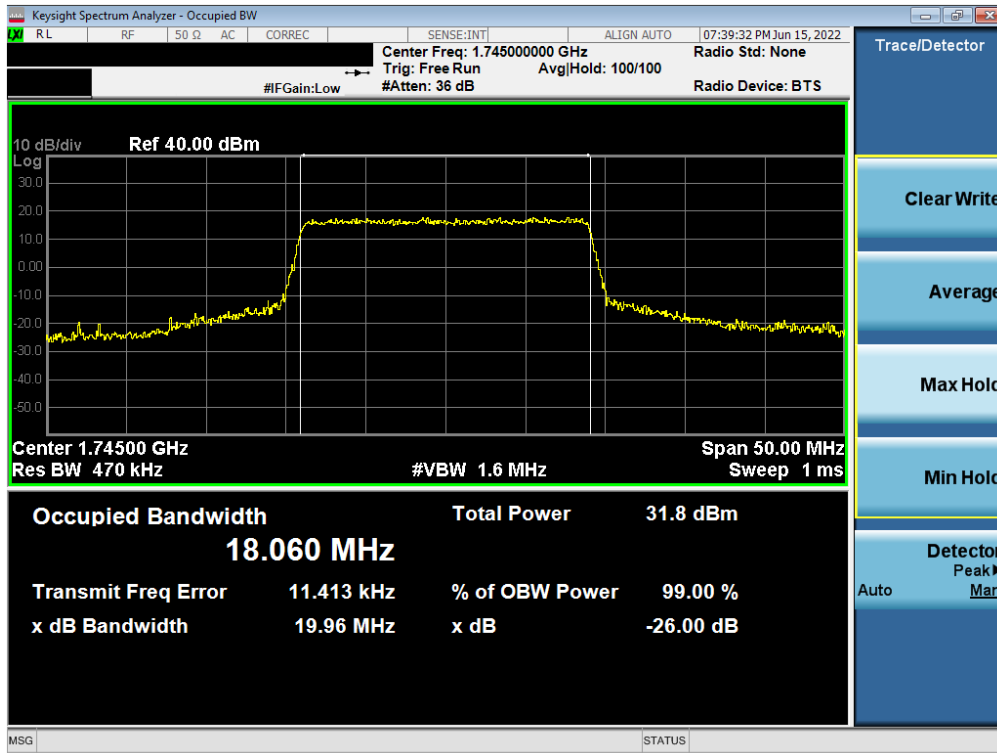
WCDMA AWS



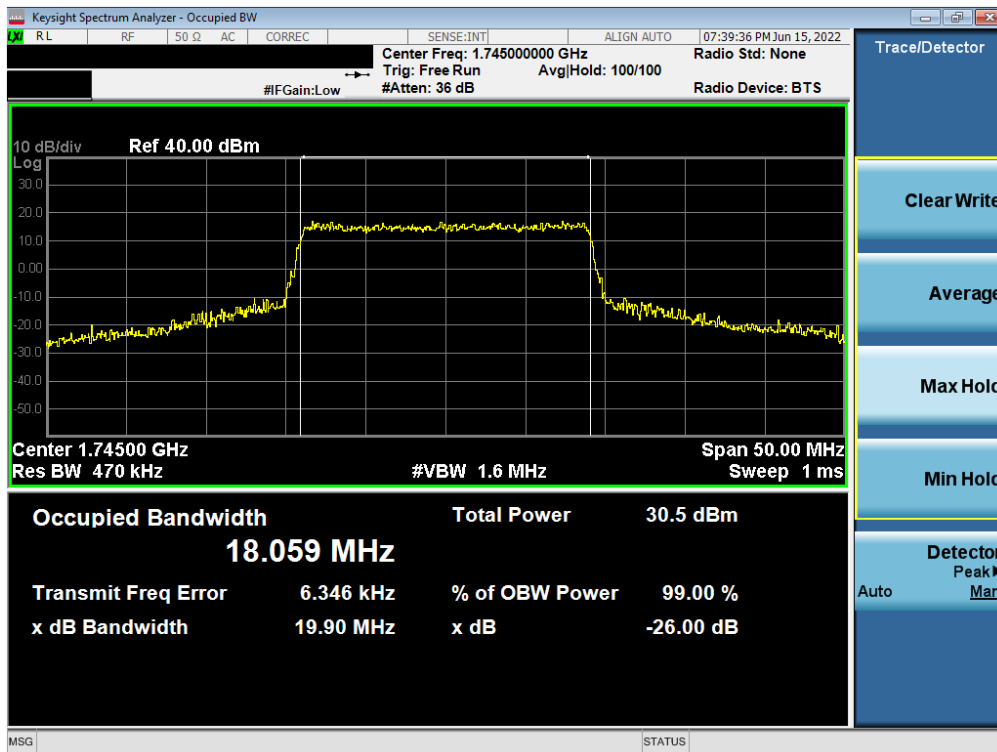
Plot 7-33. Occupied Bandwidth Plot (WCDMA, Ch. 1413)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 33 of 198

LTE Band 66/4

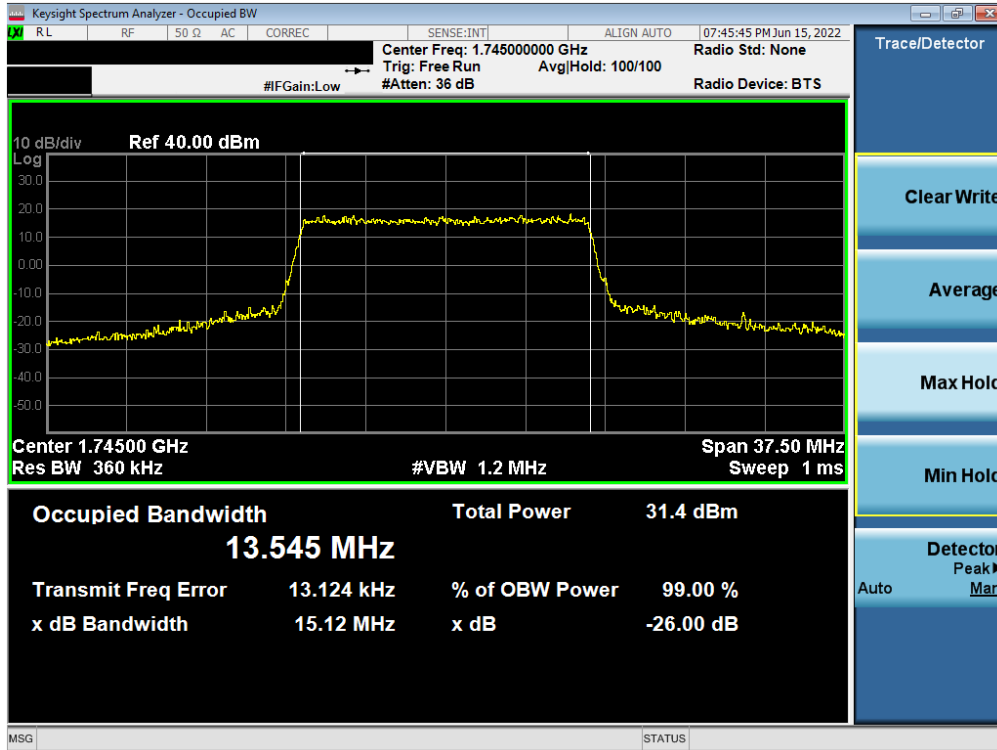


Plot 7-34. Occupied Bandwidth Plot (LTE Band 66/4 - 20.0MHz QPSK - Full RB)

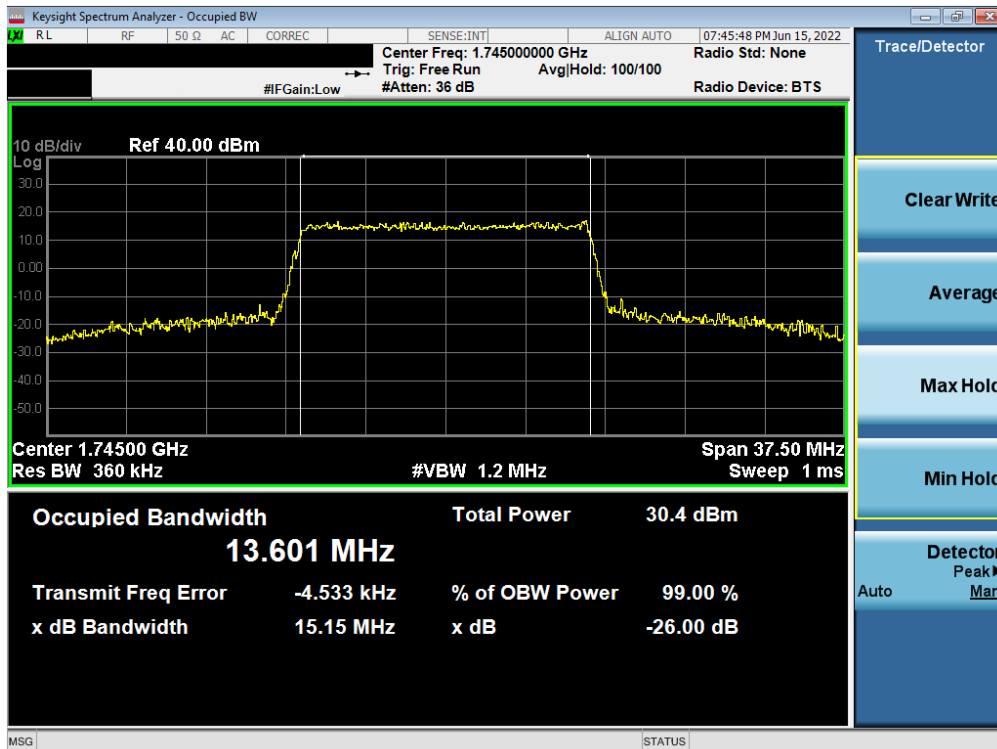


Plot 7-35. Occupied Bandwidth Plot (LTE Band 66/4 - 20.0MHz 16QAM - Full RB)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 34 of 198	

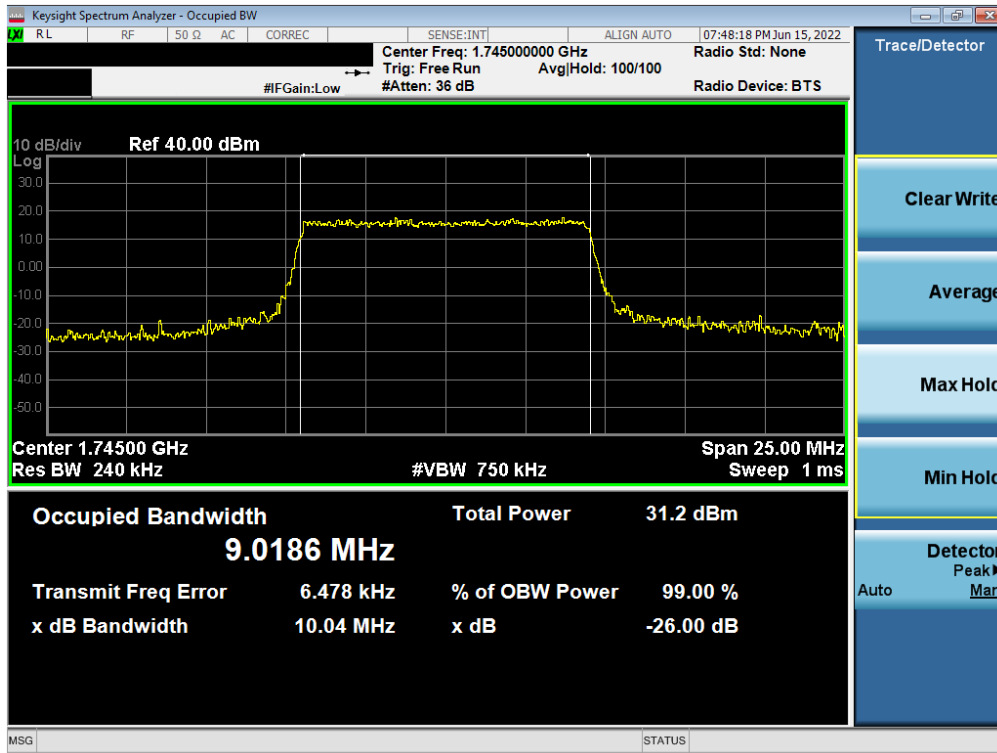


Plot 7-36. Occupied Bandwidth Plot (LTE Band 66/4 - 15.0MHz QPSK - Full RB)

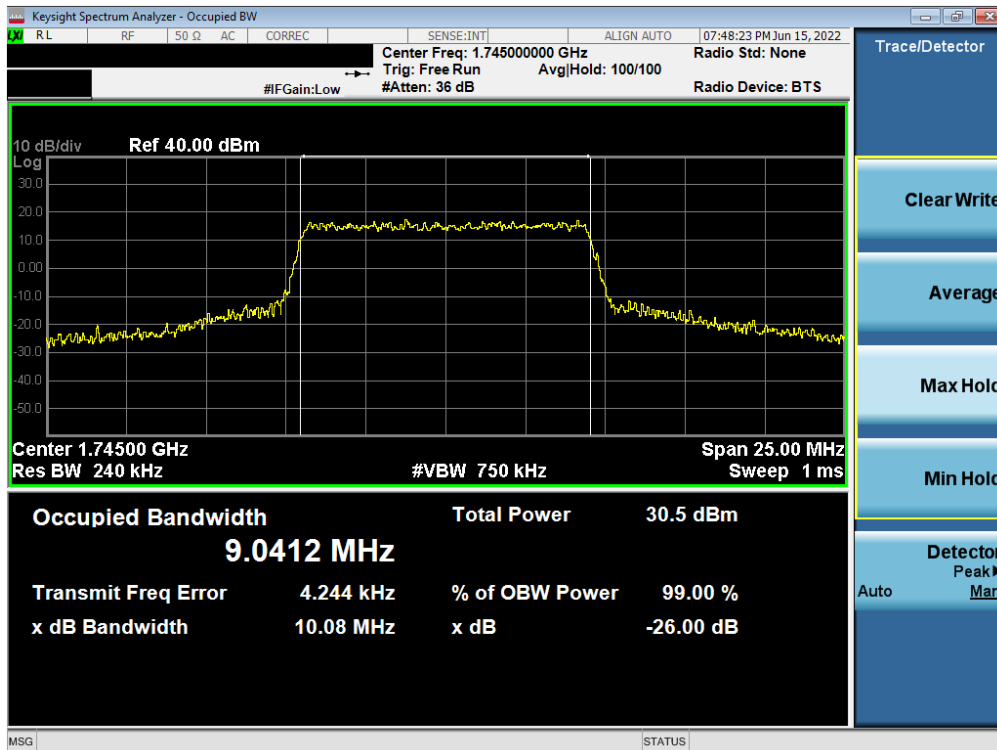


Plot 7-37. Occupied Bandwidth Plot (LTE Band 66/4 - 15.0MHz 16QAM - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 35 of 198

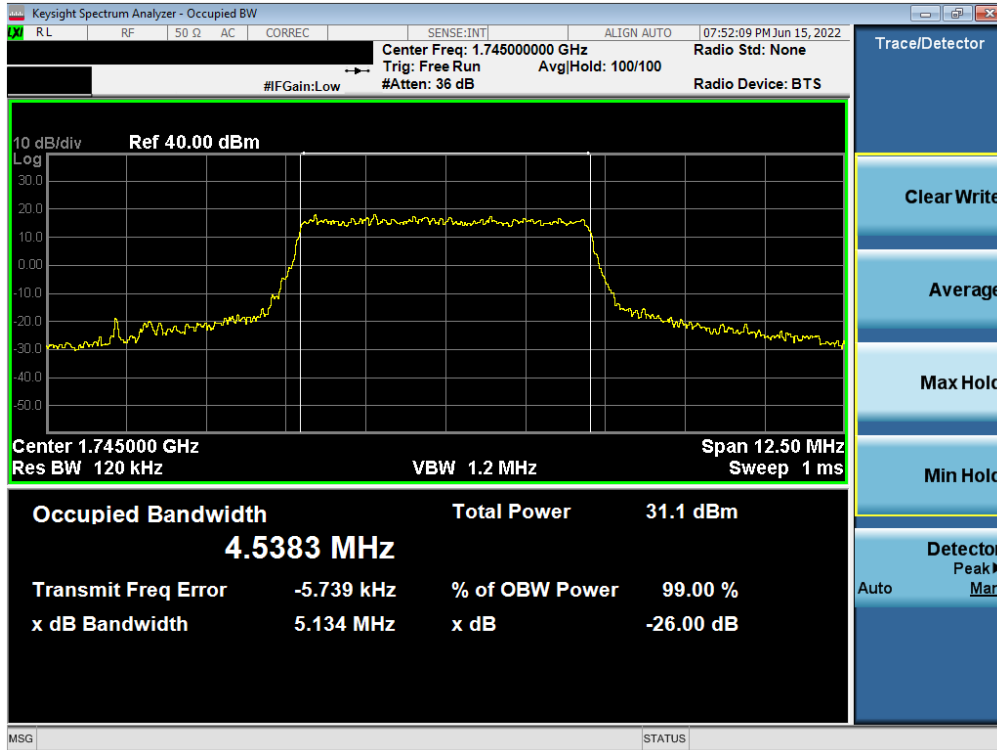


Plot 7-38. Occupied Bandwidth Plot (LTE Band 66/4 - 10.0MHz QPSK - Full RB)

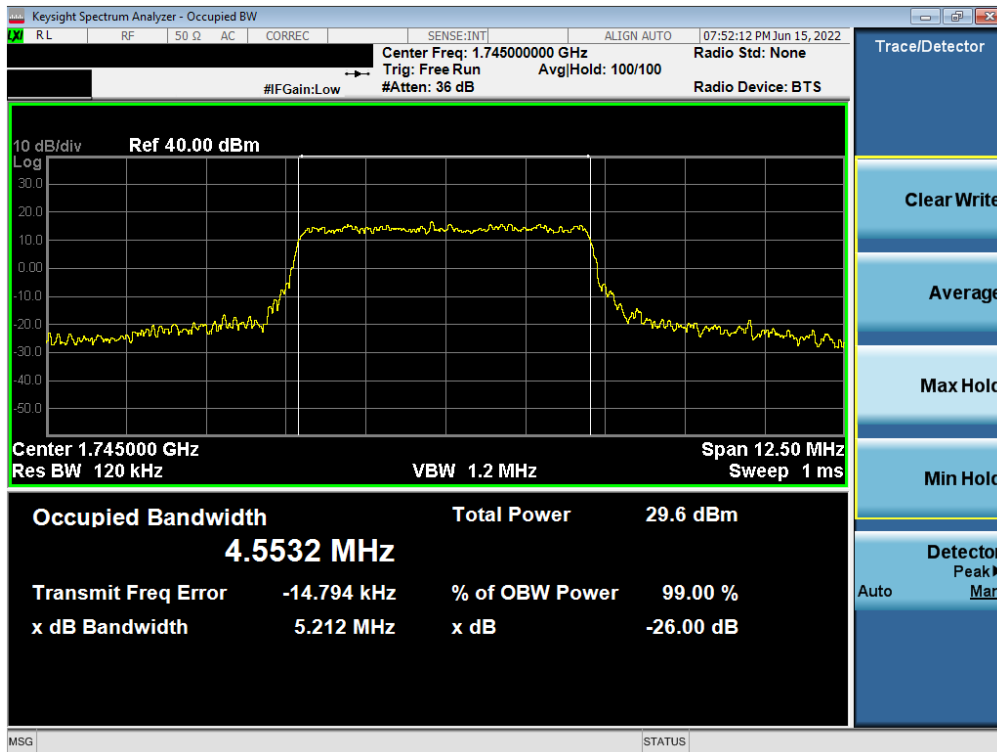


Plot 7-39. Occupied Bandwidth Plot (LTE Band 66/4 - 10.0MHz 16QAM - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 36 of 198

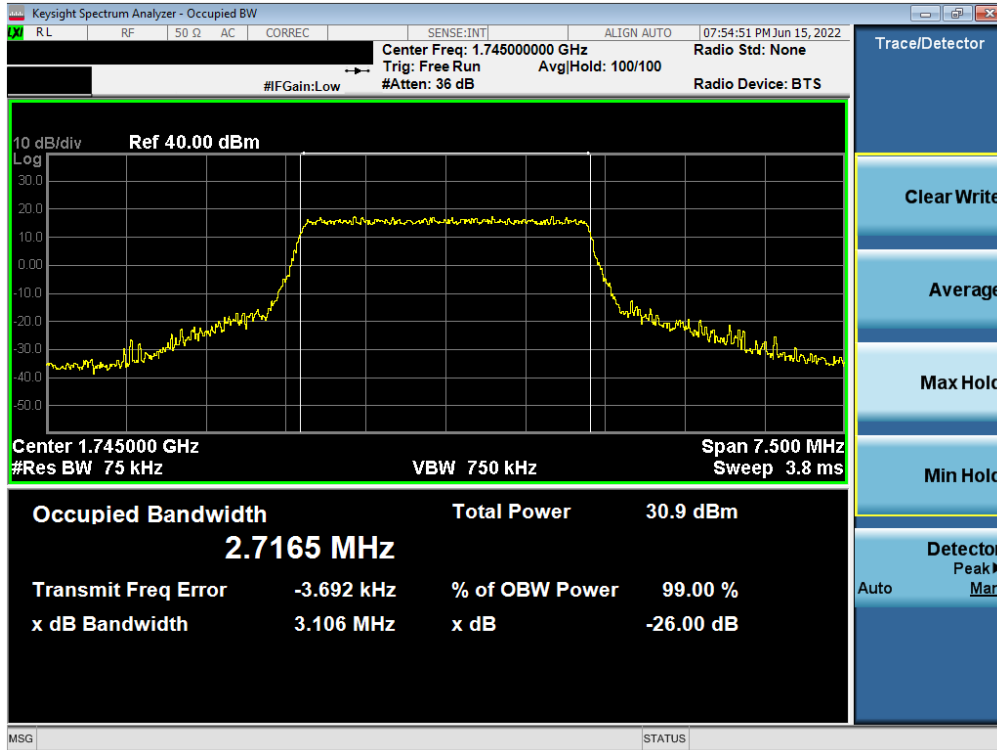


Plot 7-40. Occupied Bandwidth Plot (LTE Band 66/4 - 5.0MHz QPSK - Full RB)

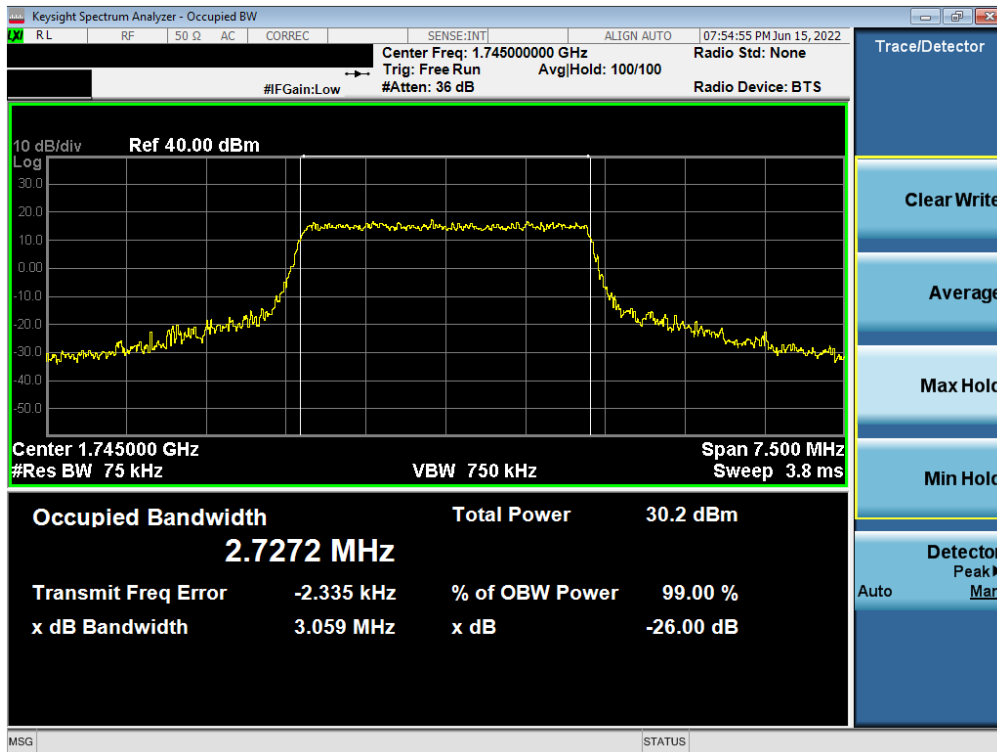


Plot 7-41. Occupied Bandwidth Plot (LTE Band 66/4 - 5.0MHz 16QAM - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 37 of 198

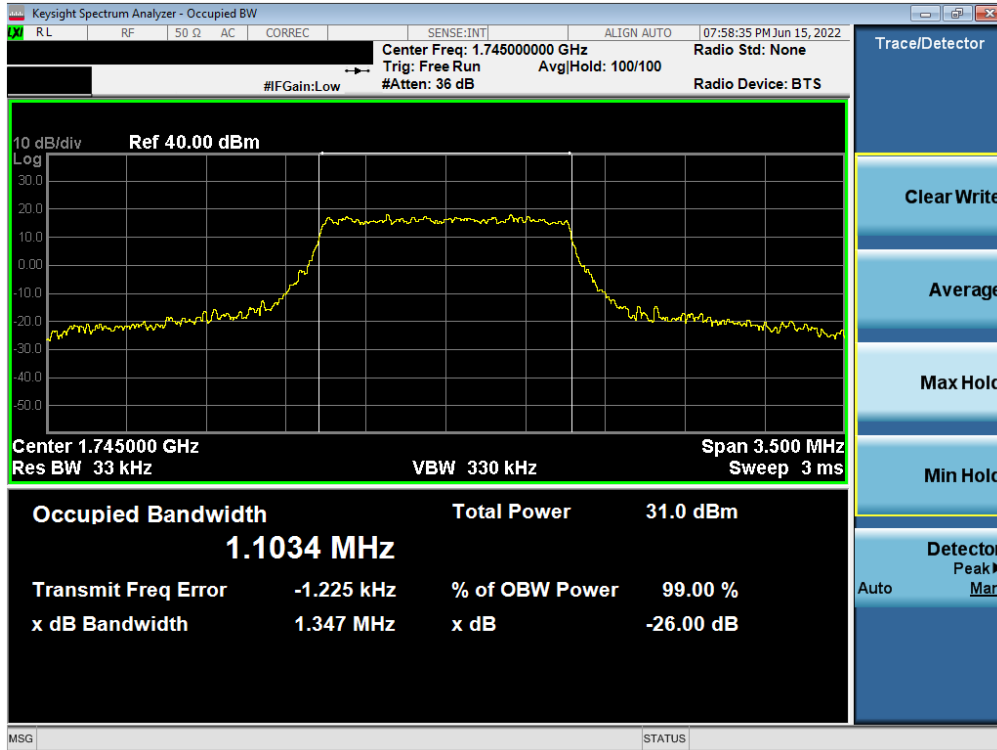


Plot 7-42. Occupied Bandwidth Plot (LTE Band 66/4 – 3.0MHz QPSK - Full RB)

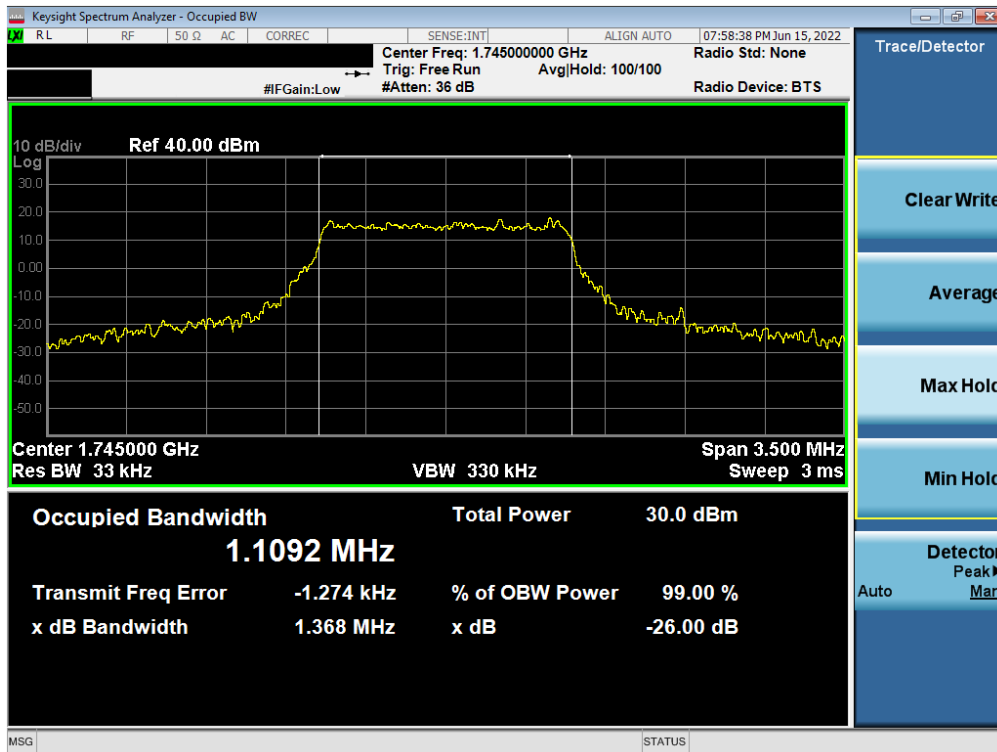


Plot 7-43. Occupied Bandwidth Plot (LTE Band 66/4 - 3.0MHz 16QAM - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 38 of 198



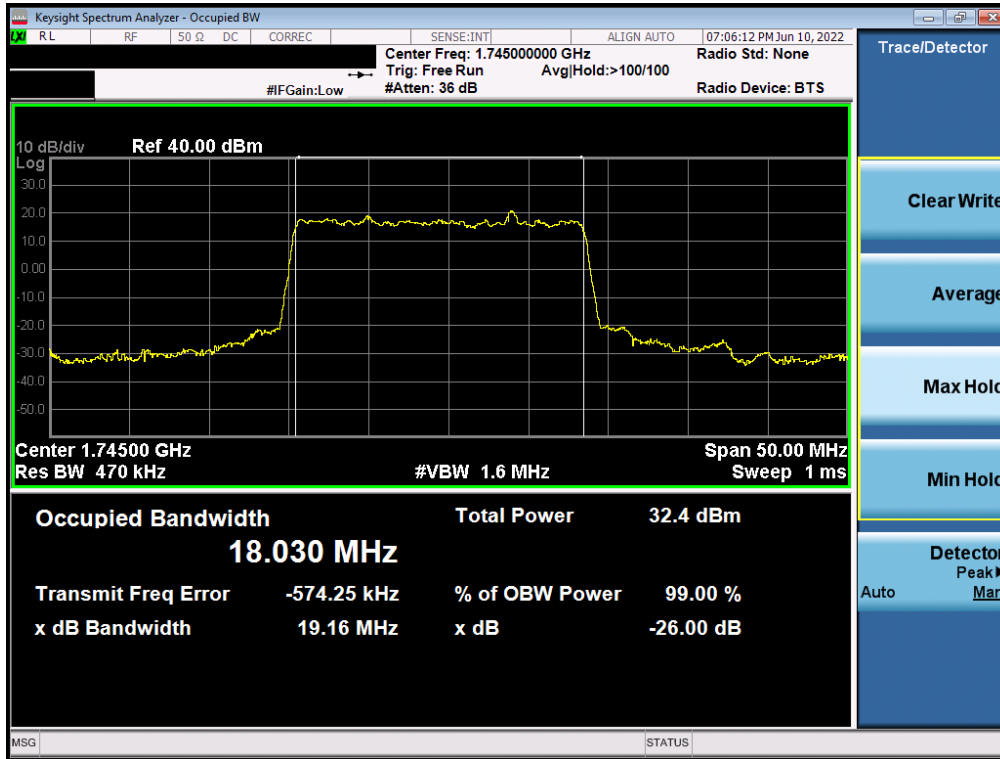
Plot 7-44. Occupied Bandwidth Plot (LTE Band 66/4 – 1.4MHz QPSK - Full RB)



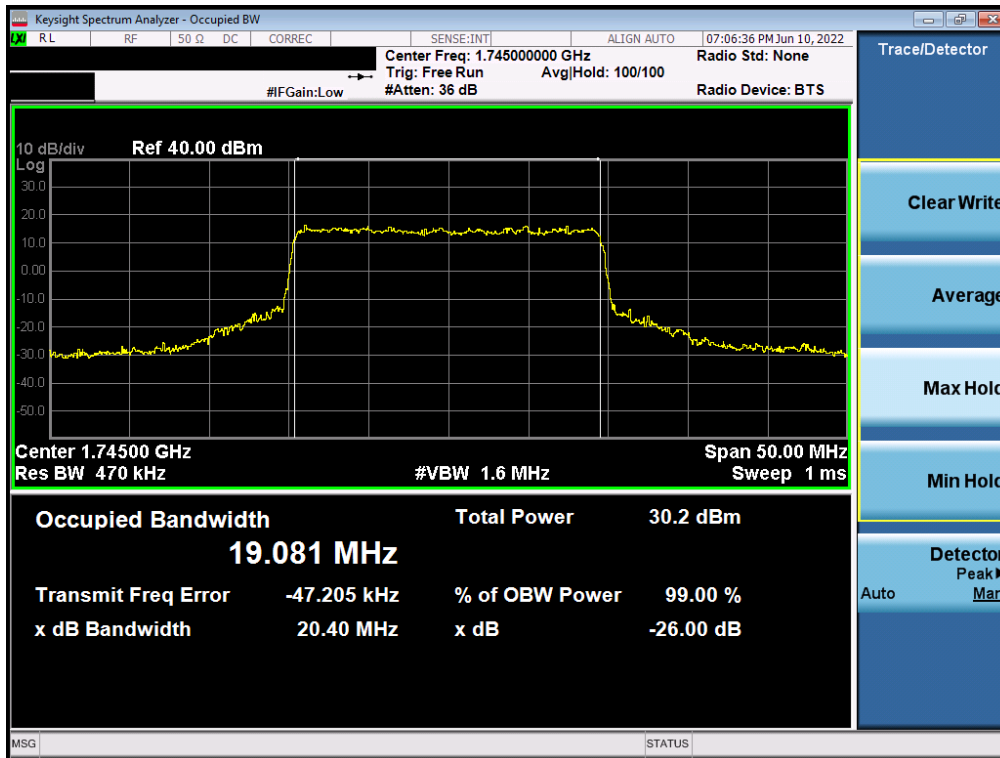
Plot 7-45. Occupied Bandwidth Plot (LTE Band 66/4 – 1.4MHz 16QAM - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 39 of 198

NR Band n66

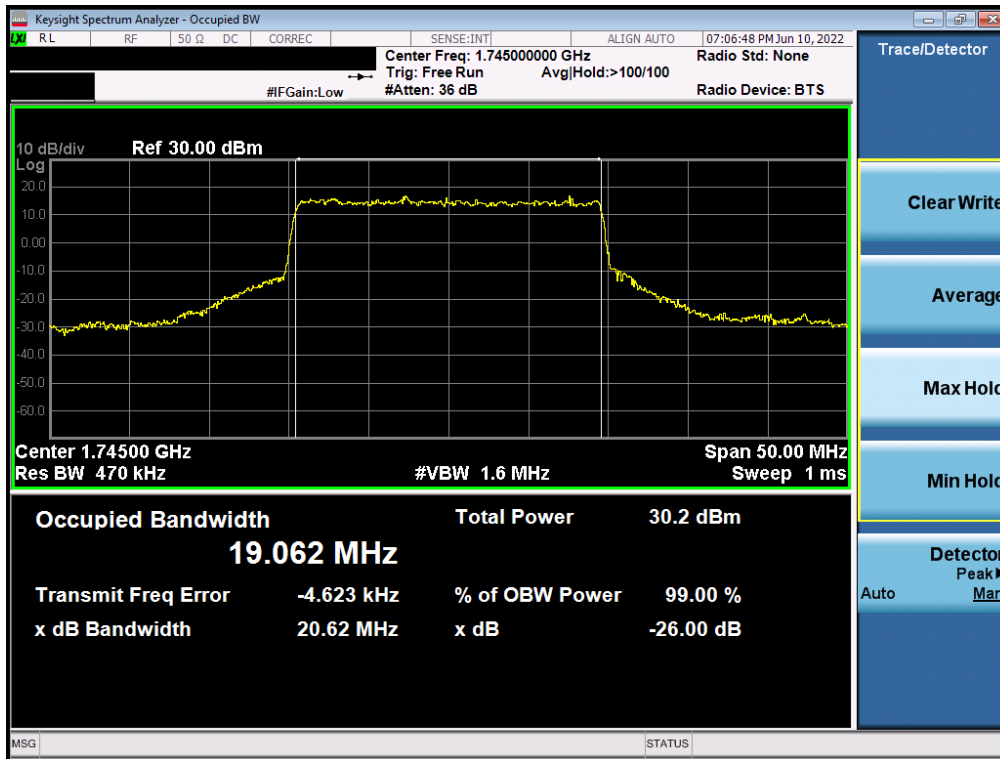


Plot 7-46. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB)

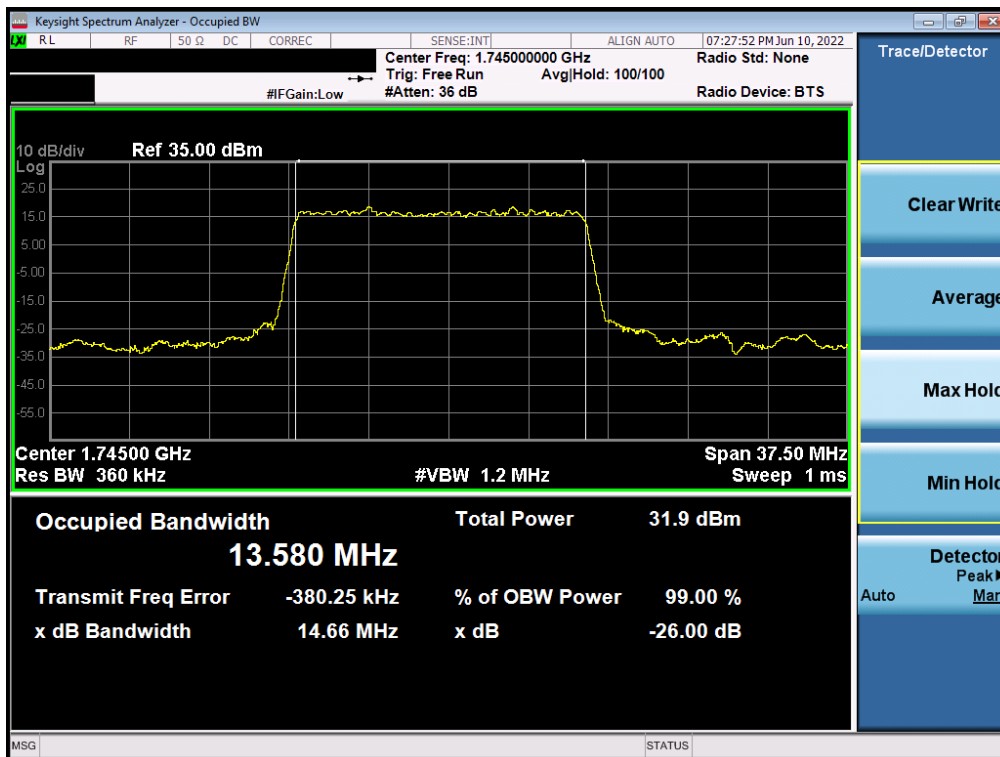


Plot 7-47. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 40 of 198

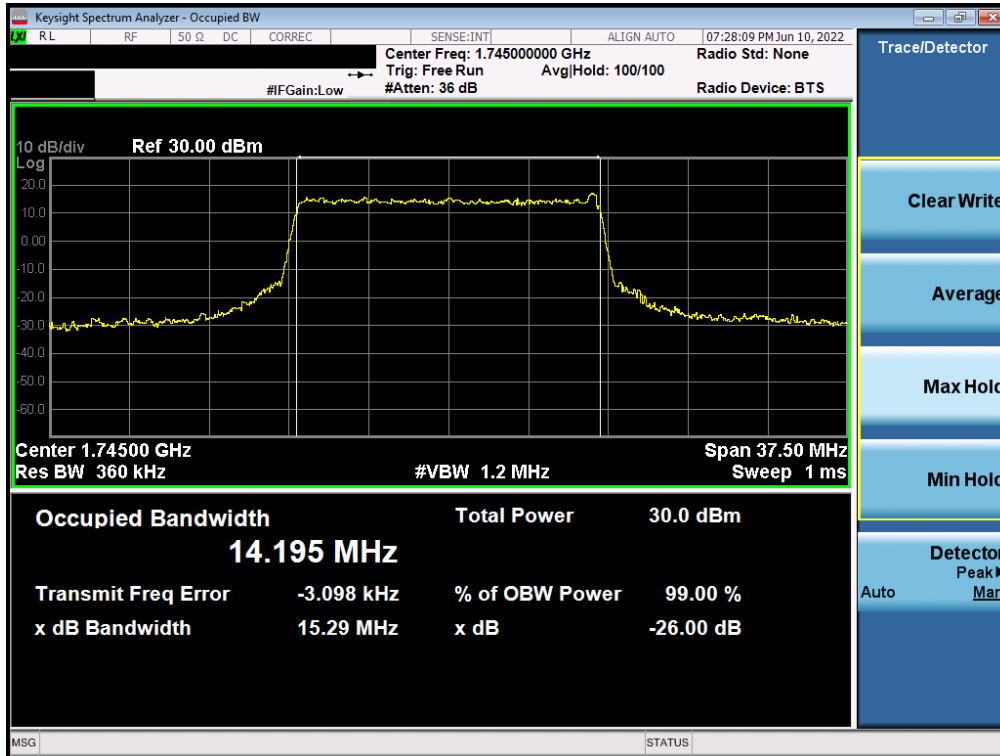


Plot 7-48. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB)

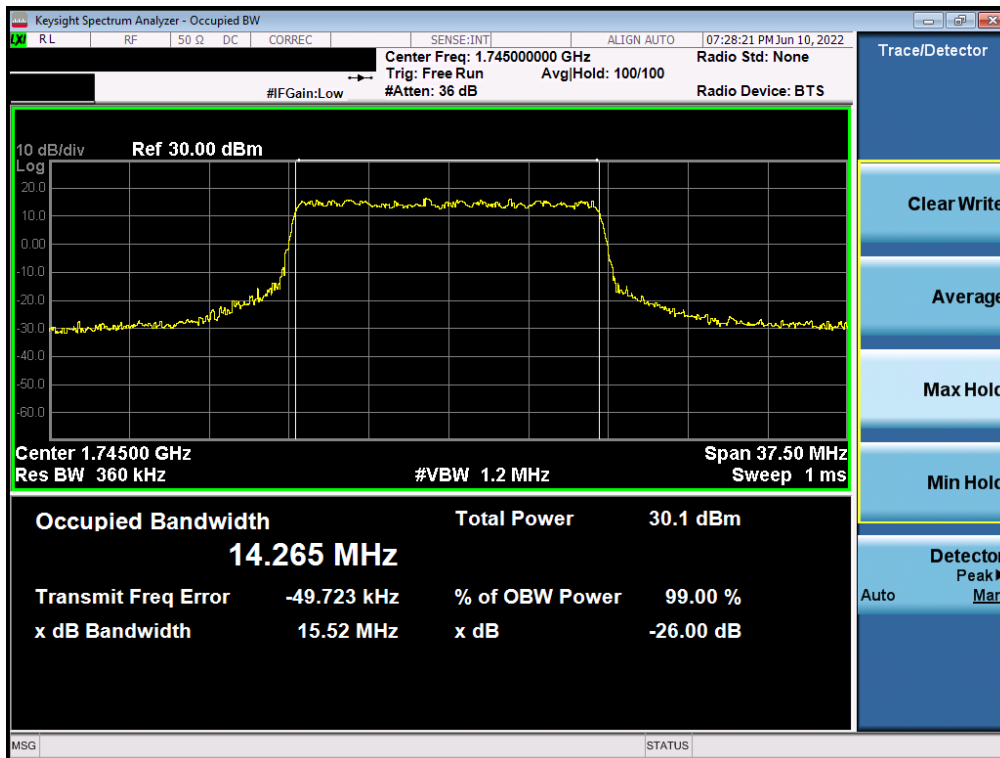


Plot 7-49. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 41 of 198

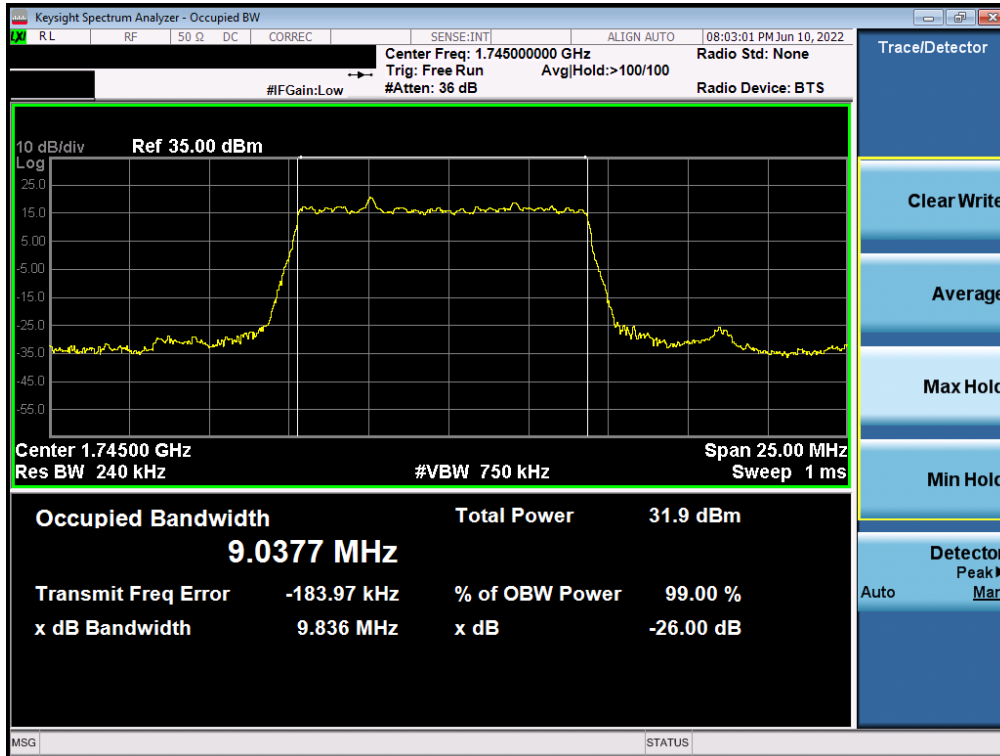


Plot 7-50. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB)

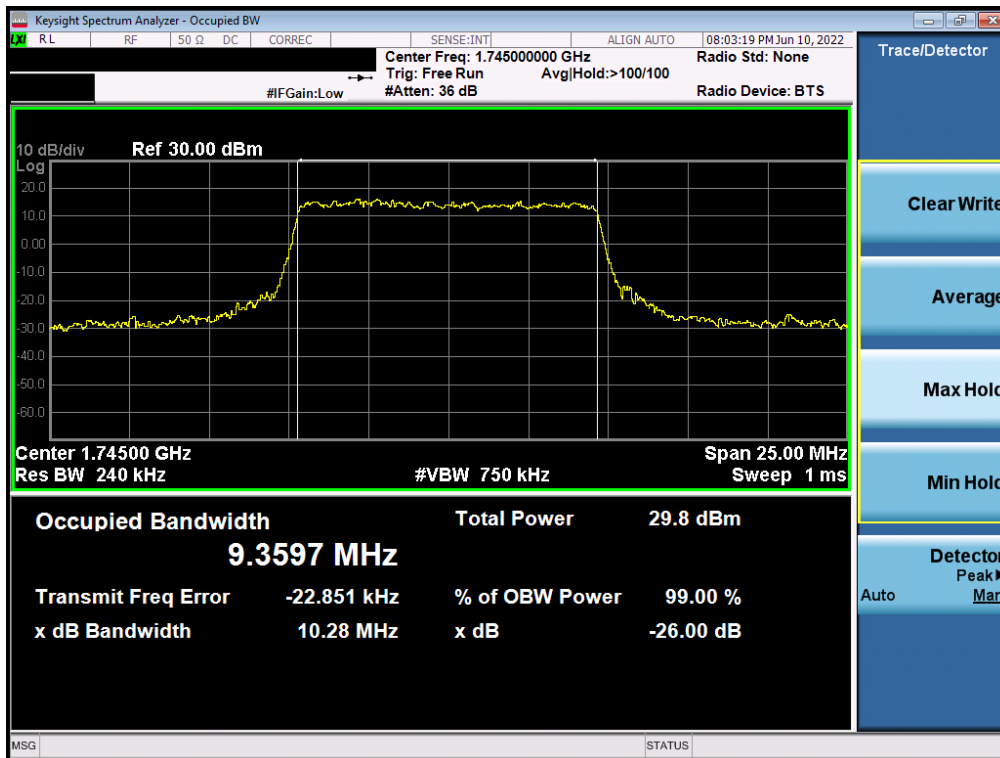


Plot 7-51. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 42 of 198

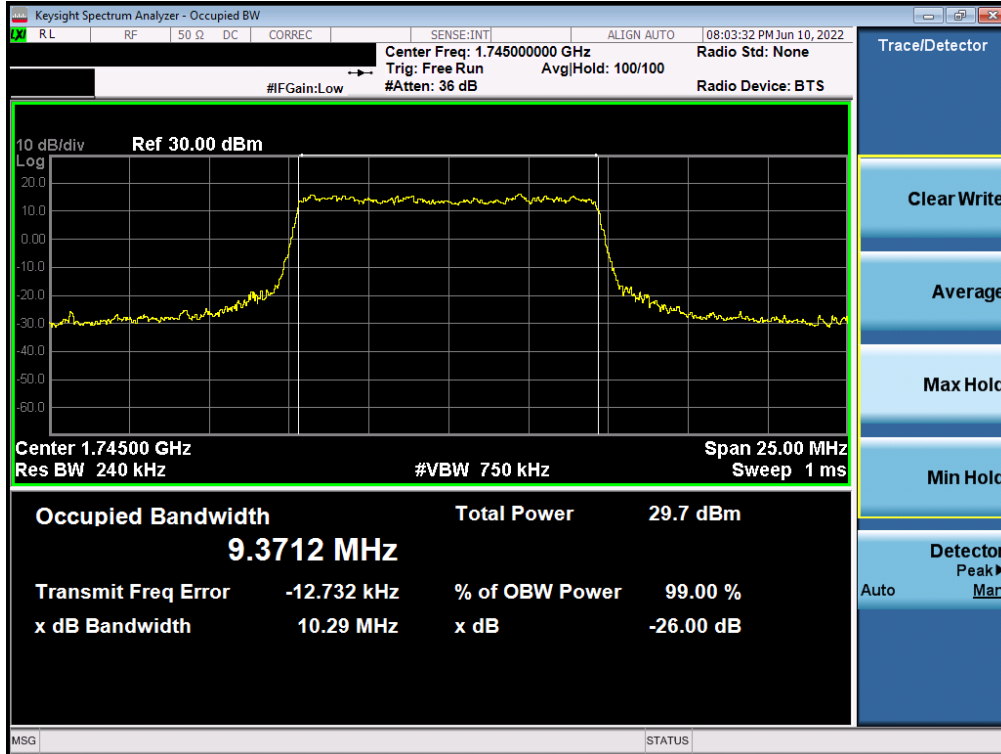


Plot 7-52. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

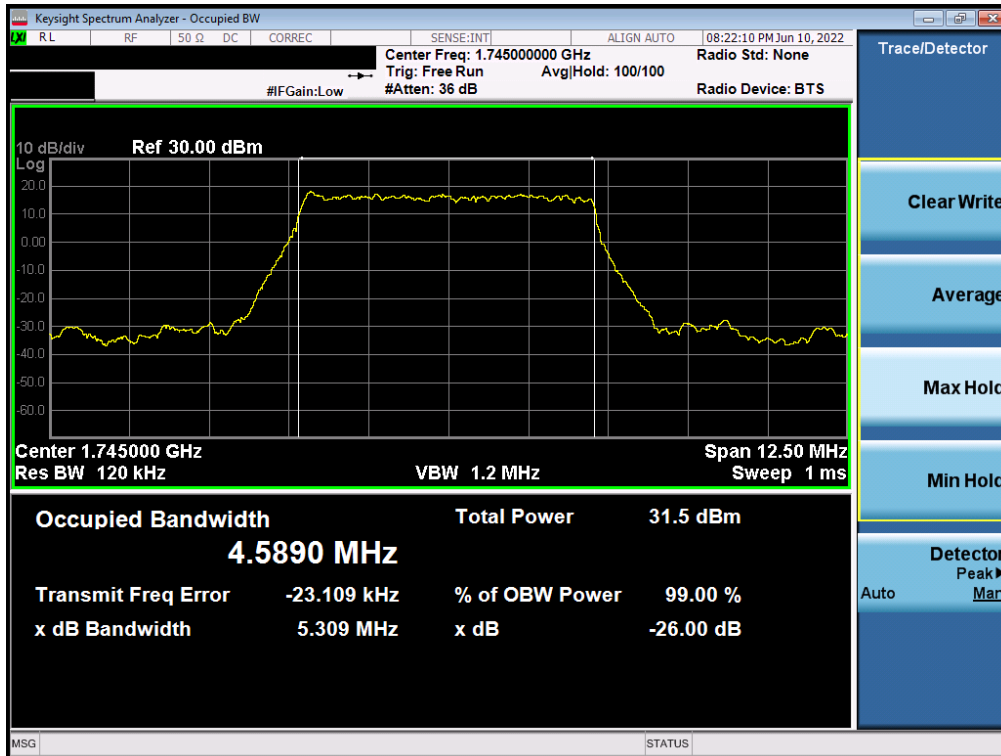


Plot 7-53. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 43 of 198

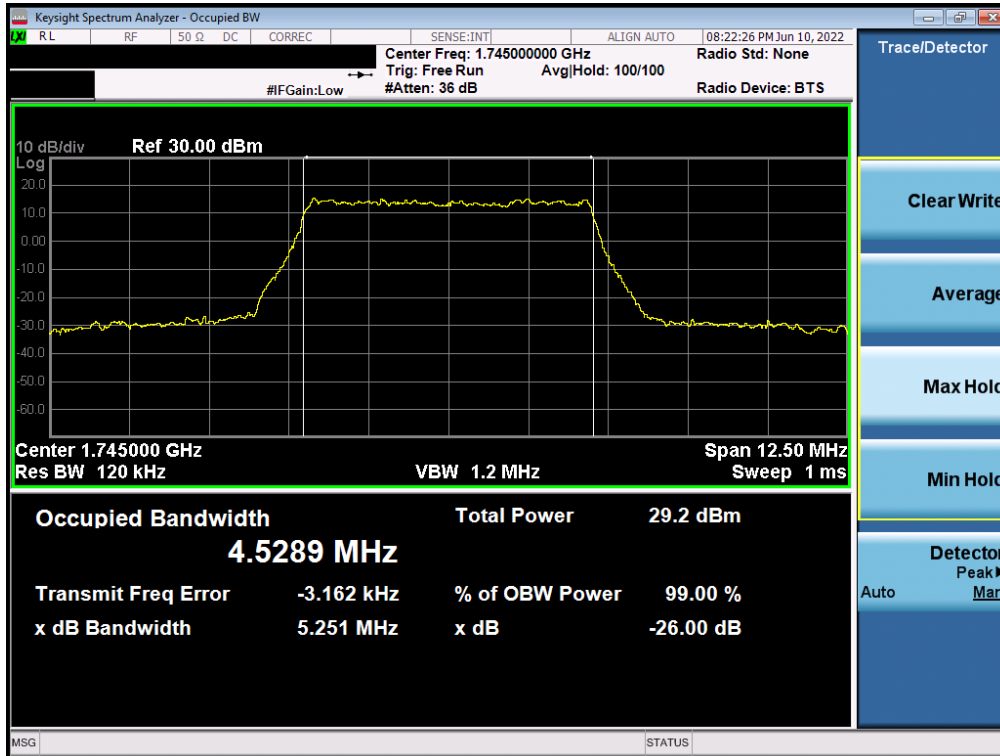


Plot 7-54. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB)

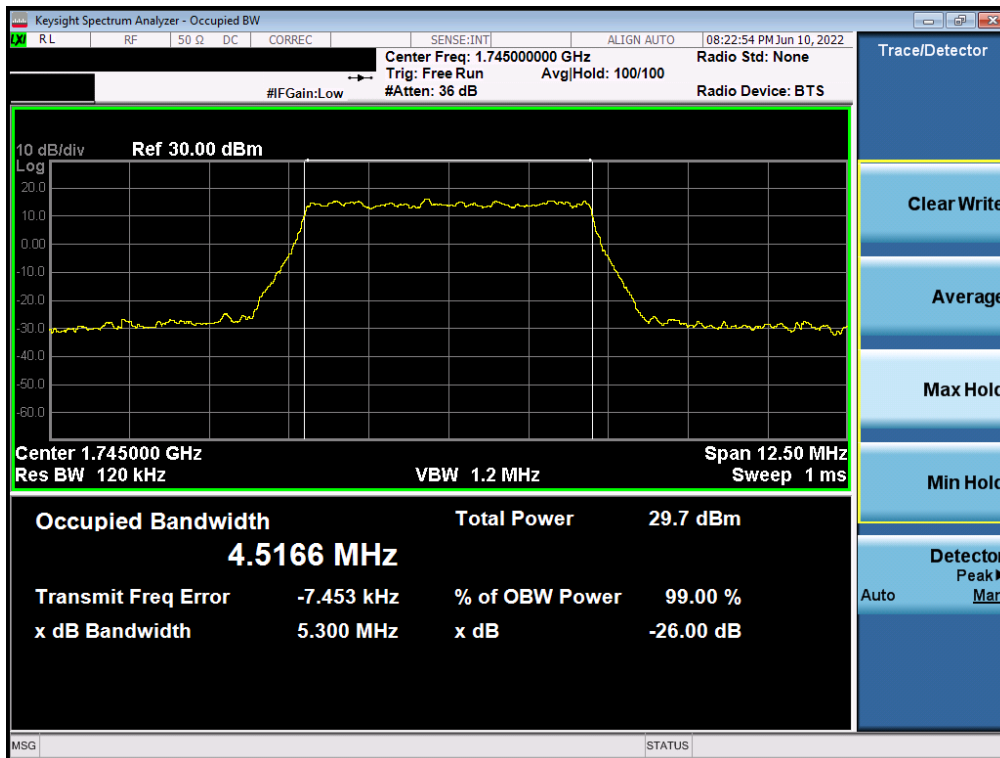


Plot 7-55. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 44 of 198



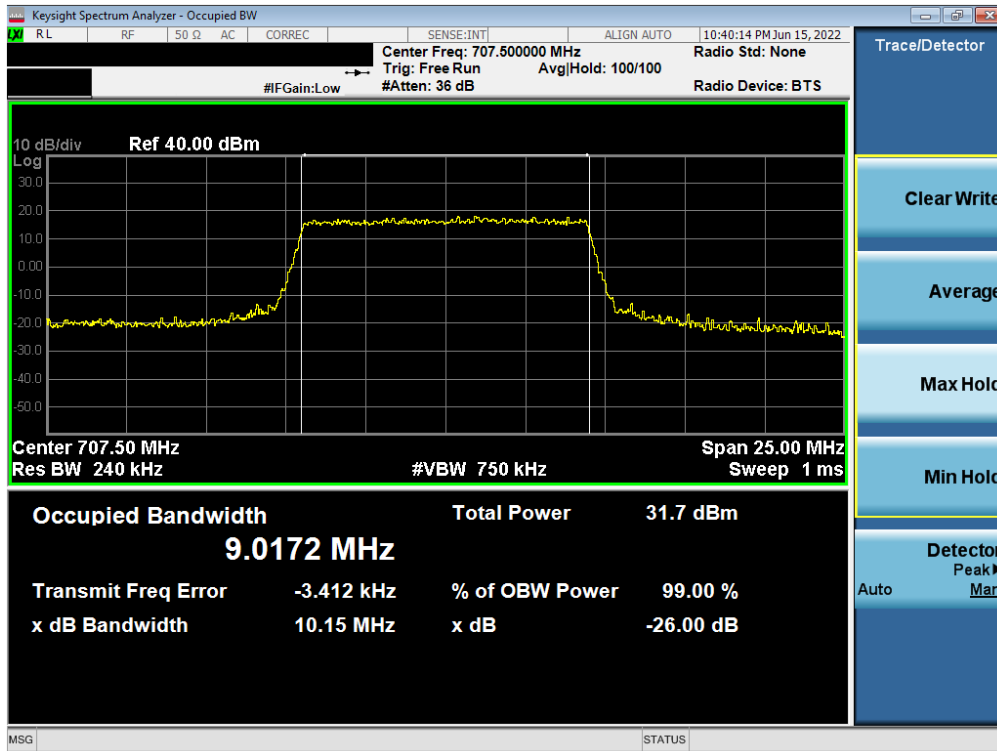
Plot 7-56. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB)



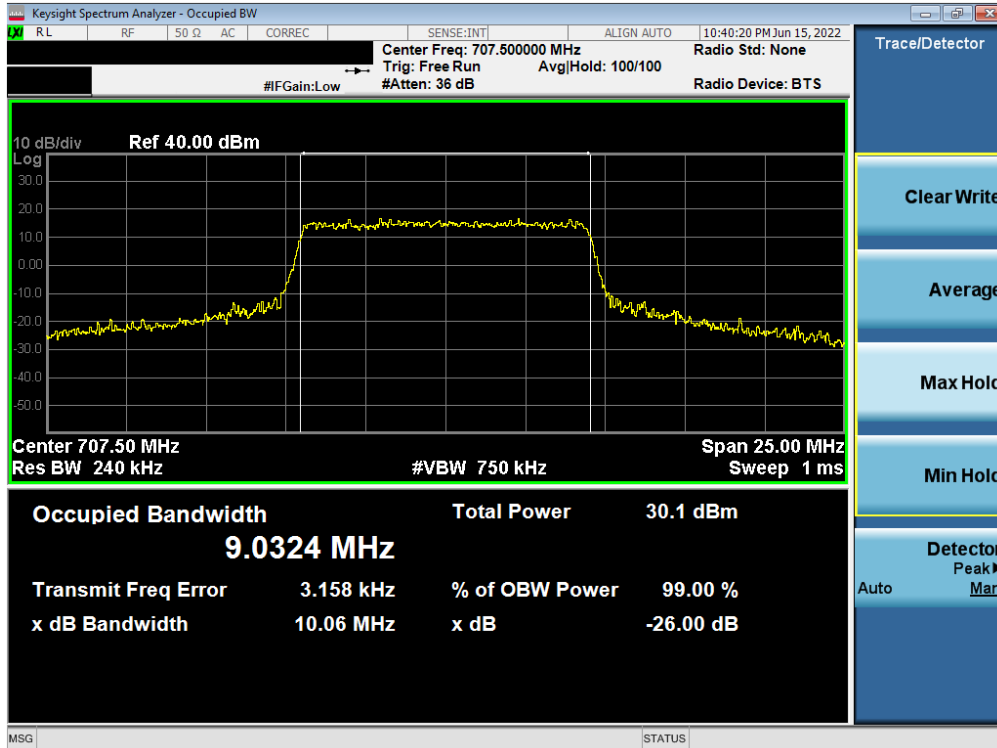
Plot 7-57. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 45 of 198

LTE Band 12/17 – Sub ANT

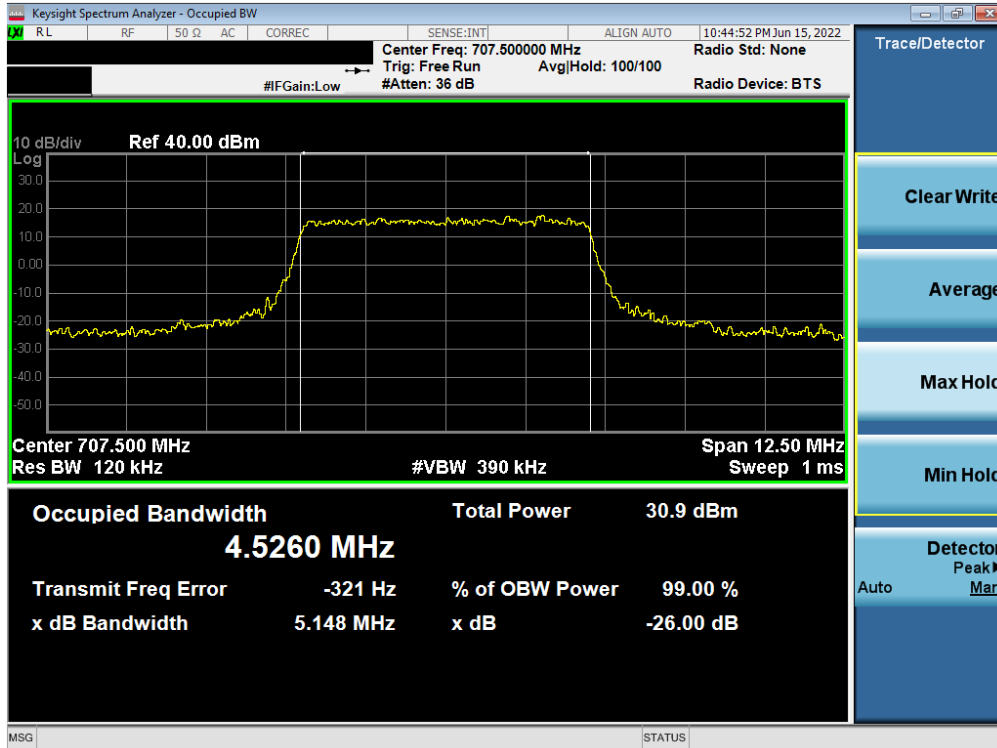


Plot 7-58. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz QPSK - Full RB Configuration – Sub ANT)

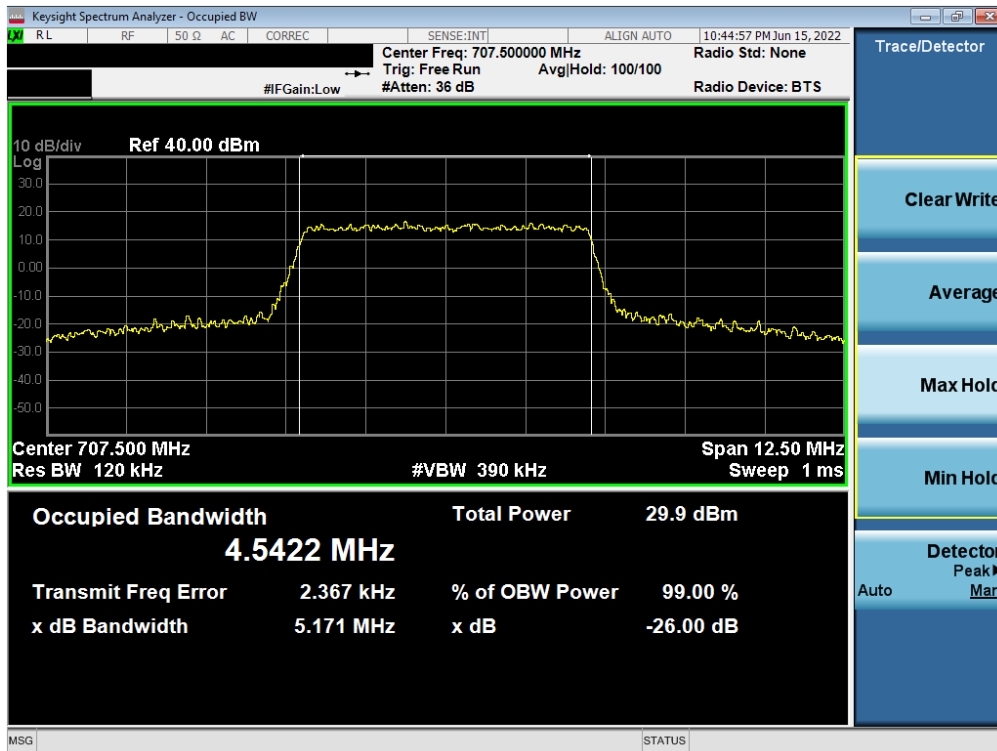


Plot 7-59. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 16-QAM - Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 46 of 198

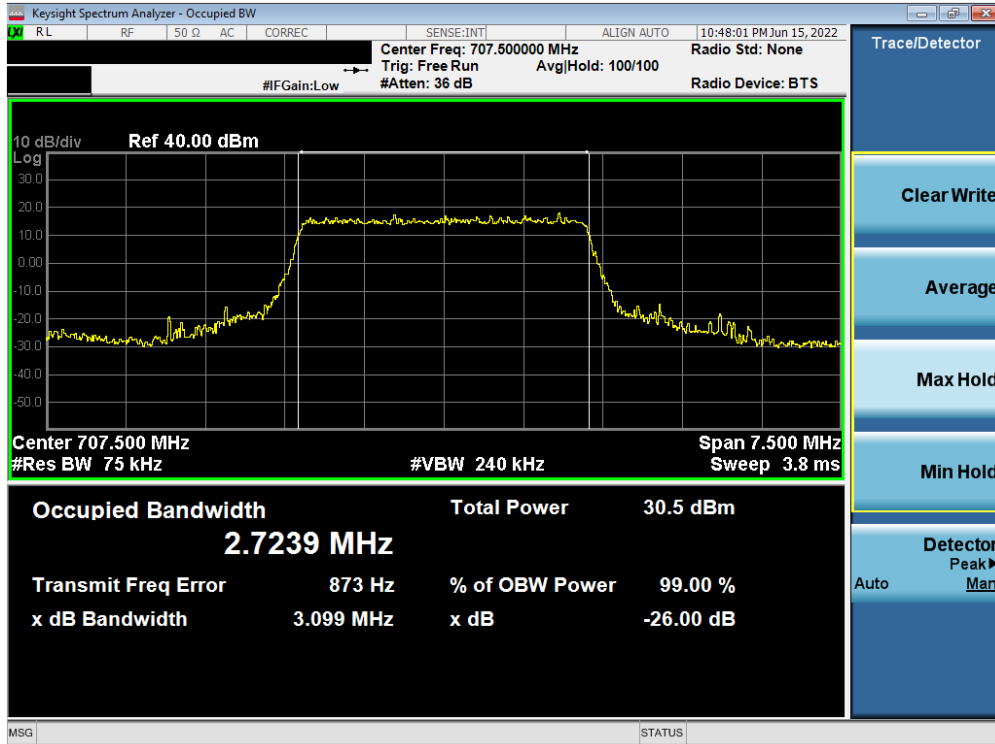


Plot 7-60. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz QPSK - Full RB Configuration – Sub ANT)



Plot 7-61. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 16-QAM - Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 47 of 198	

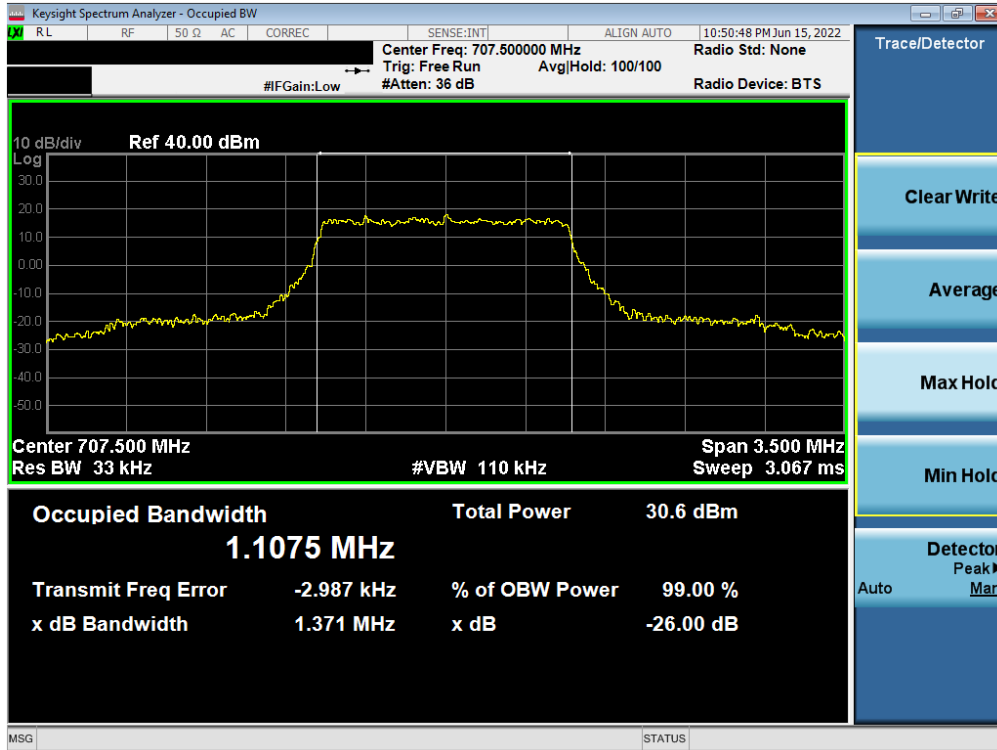


Plot 7-62. Occupied Bandwidth Plot (LTE Band 12/17 - 3MHz QPSK - Full RB Configuration – Sub ANT)

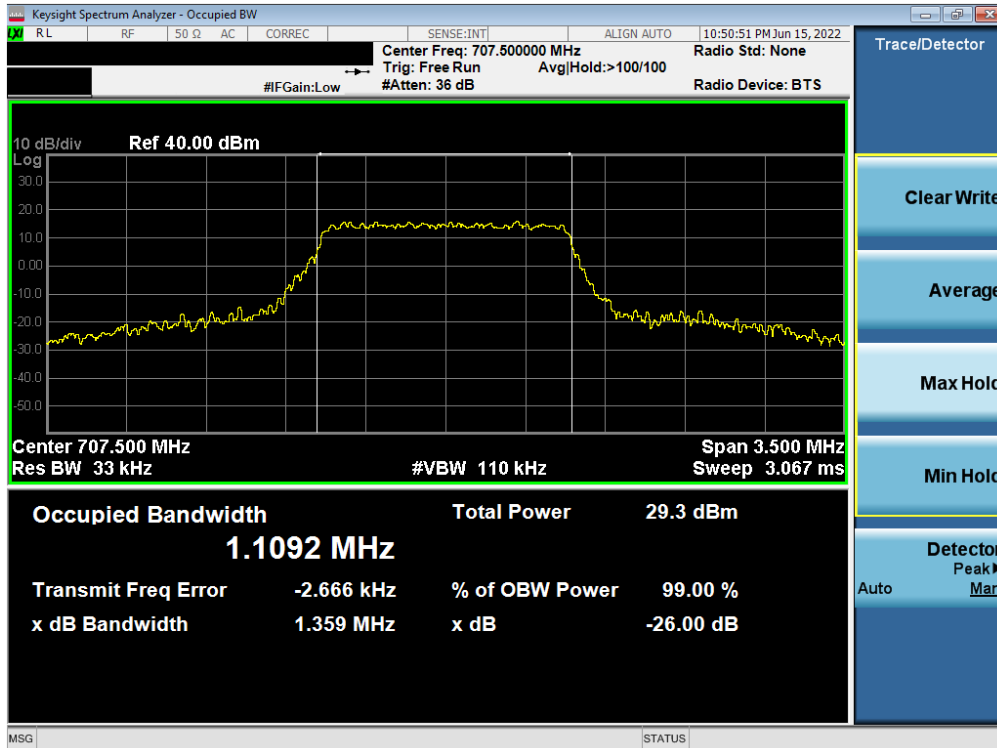


Plot 7-63. Occupied Bandwidth Plot (LTE Band 12/17 - 3MHz 16-QAM - Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 48 of 198



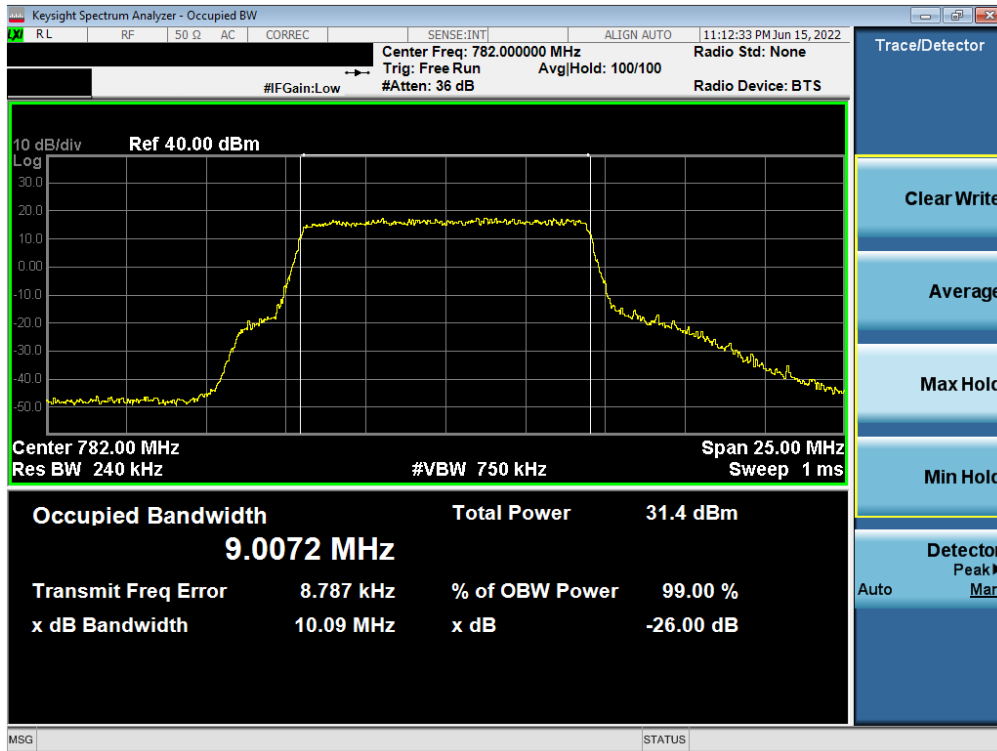
Plot 7-64. Occupied Bandwidth Plot (LTE Band 12/17 – 1.4MHz QPSK - Full RB Configuration – Sub ANT)



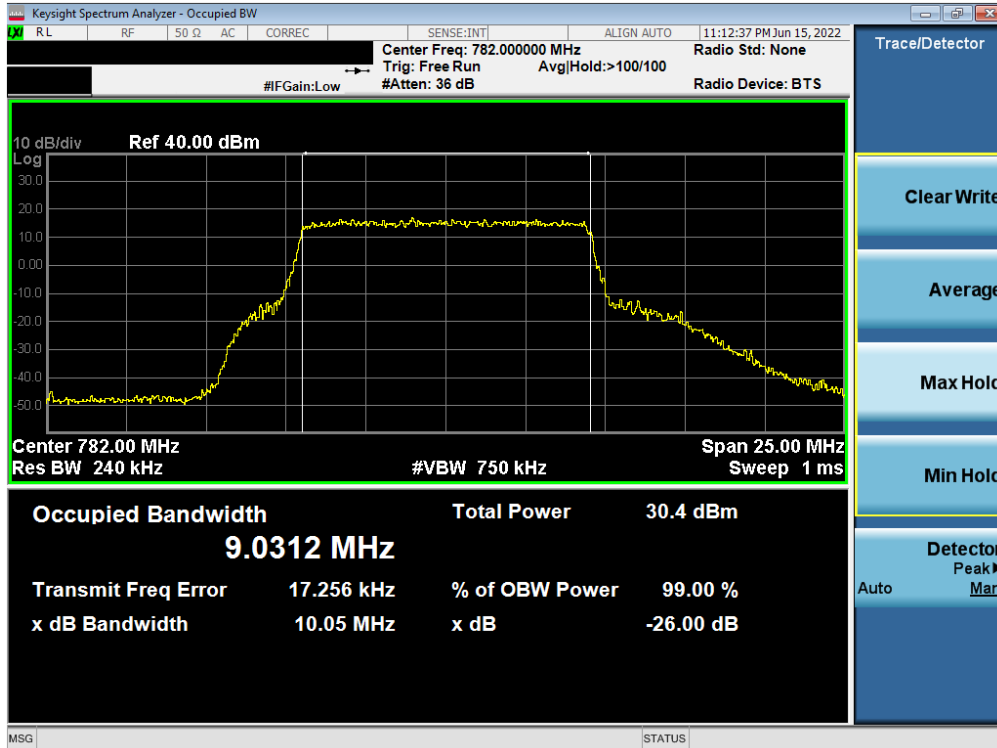
Plot 7-65. Occupied Bandwidth Plot (LTE Band 12/17 – 1.4MHz 16-QAM - Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 49 of 198

LTE Band 13 – Sub ANT

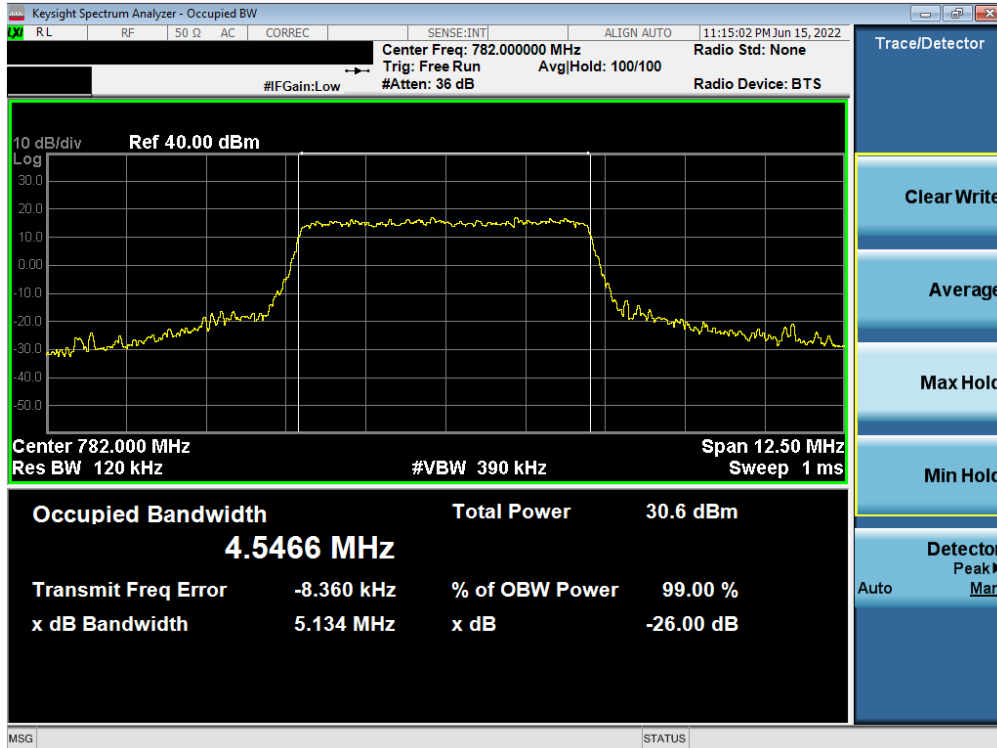


Plot 7-66. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB Configuration – Sub ANT)

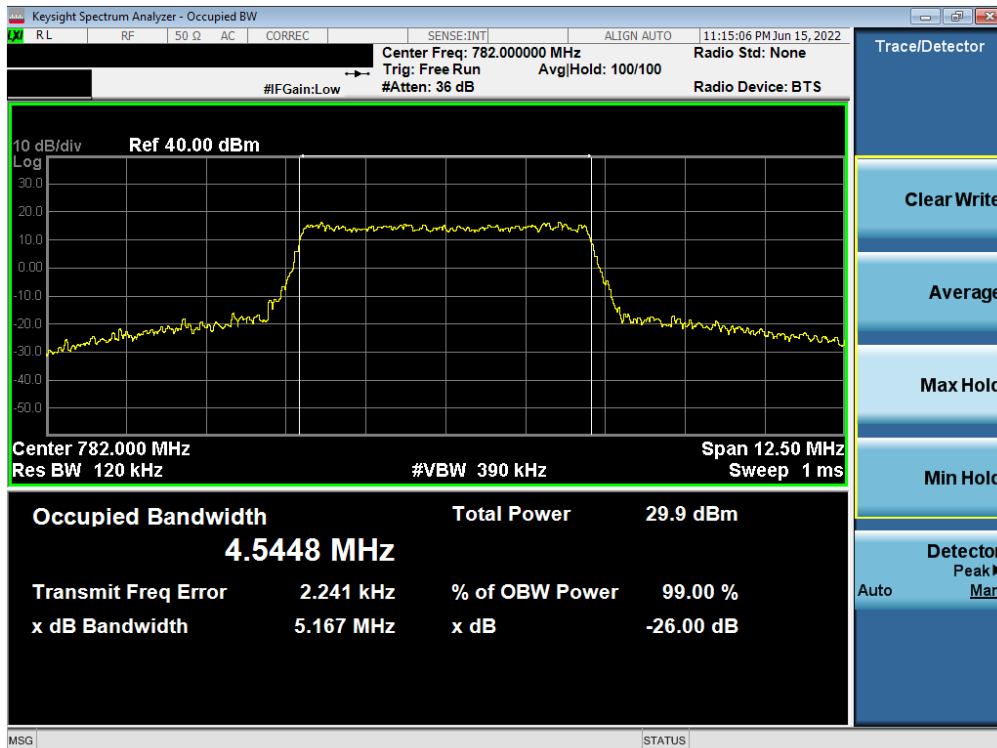


Plot 7-67. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 50 of 198



Plot 7-68. Occupied Bandwidth Plot (LTE Band 13 - 5MHz QPSK - Full RB Configuration – Sub ANT)



Plot 7-69. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 51 of 198

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.

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 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.

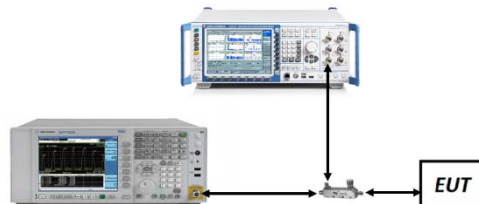


Figure 7-3. Test Instrument & Measurement Setup

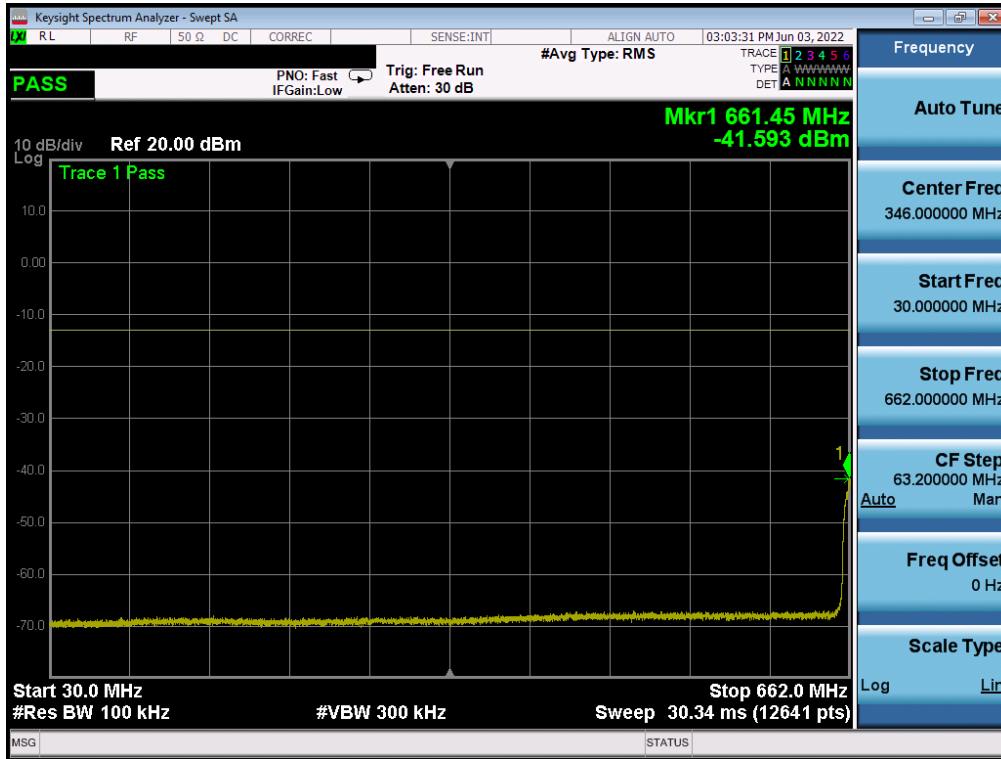
Test Notes

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.
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.

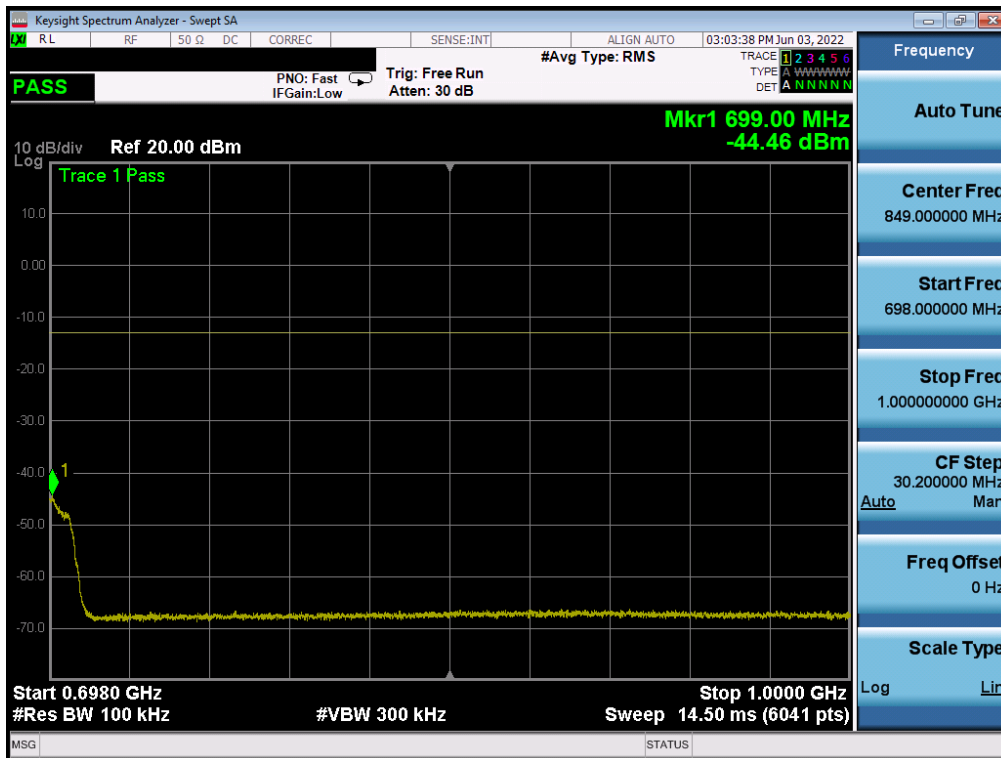
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 52 of 198

V3.0 1/5/2022

LTE Band 71

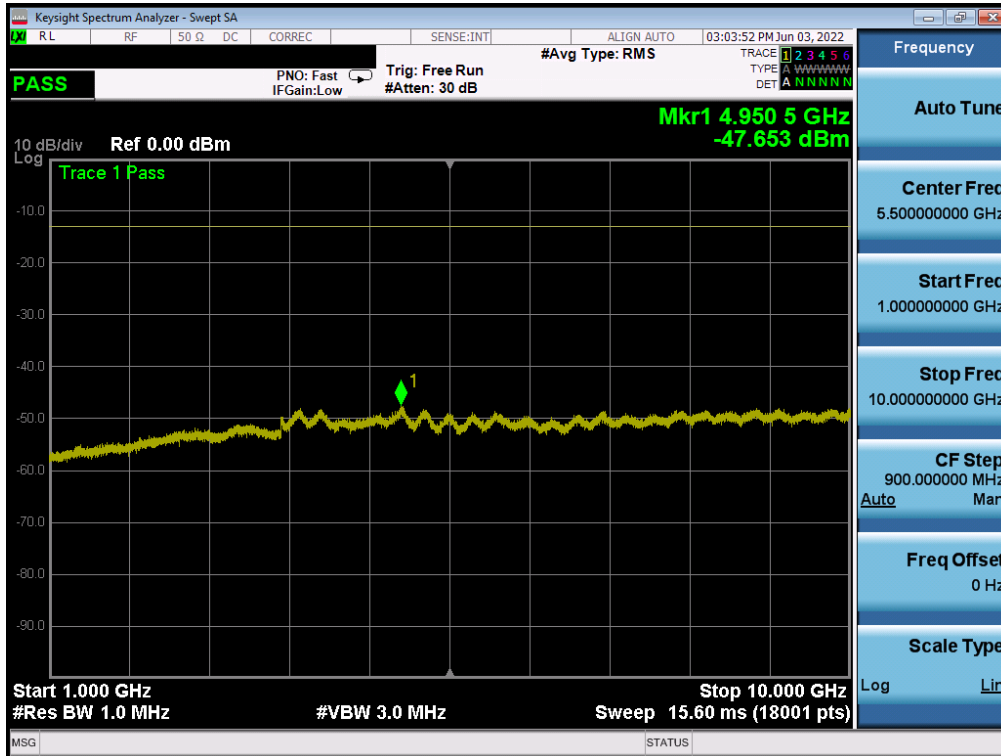


Plot 7-70. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK – 1 RB - Low Channel)

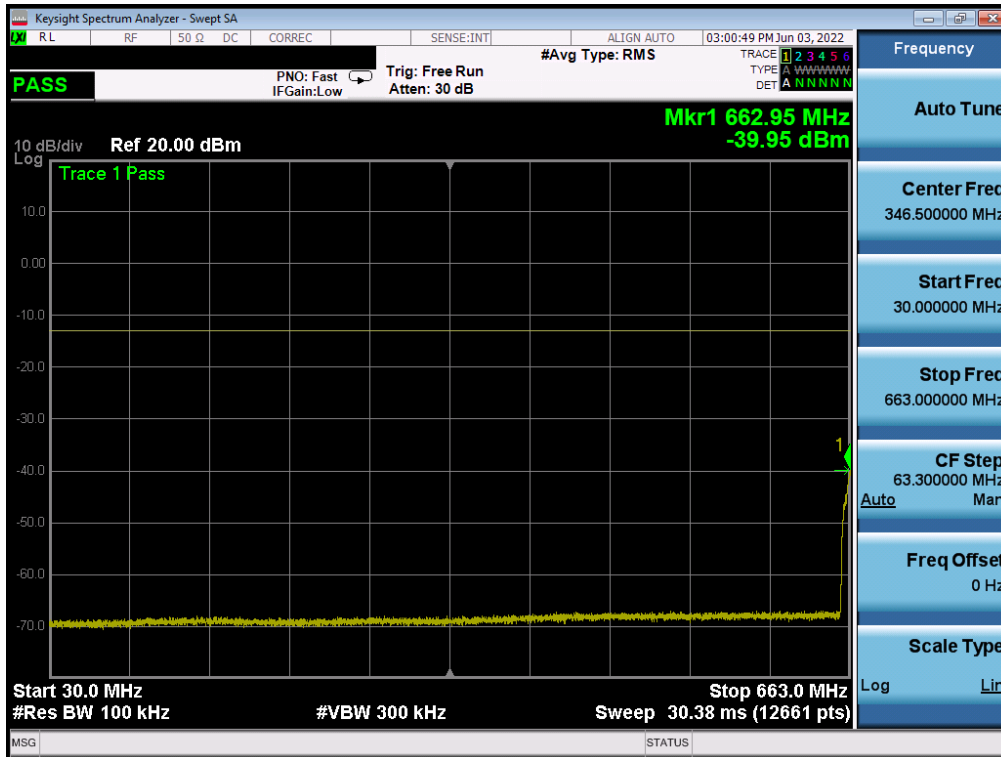


Plot 7-71. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 53 of 198

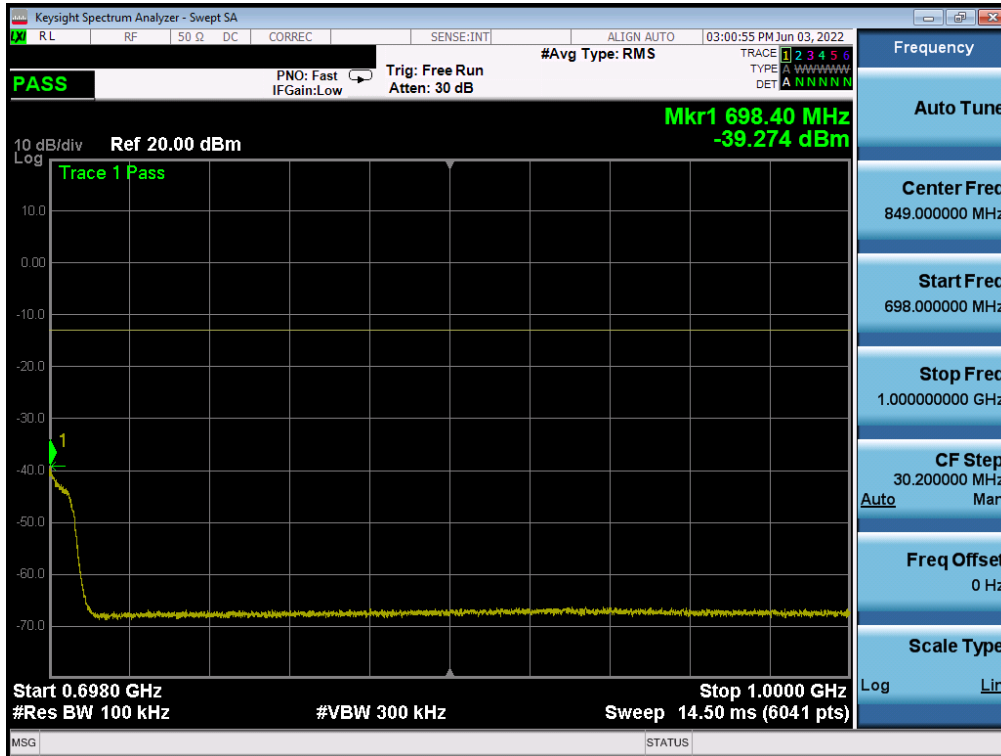


Plot 7-72. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel)

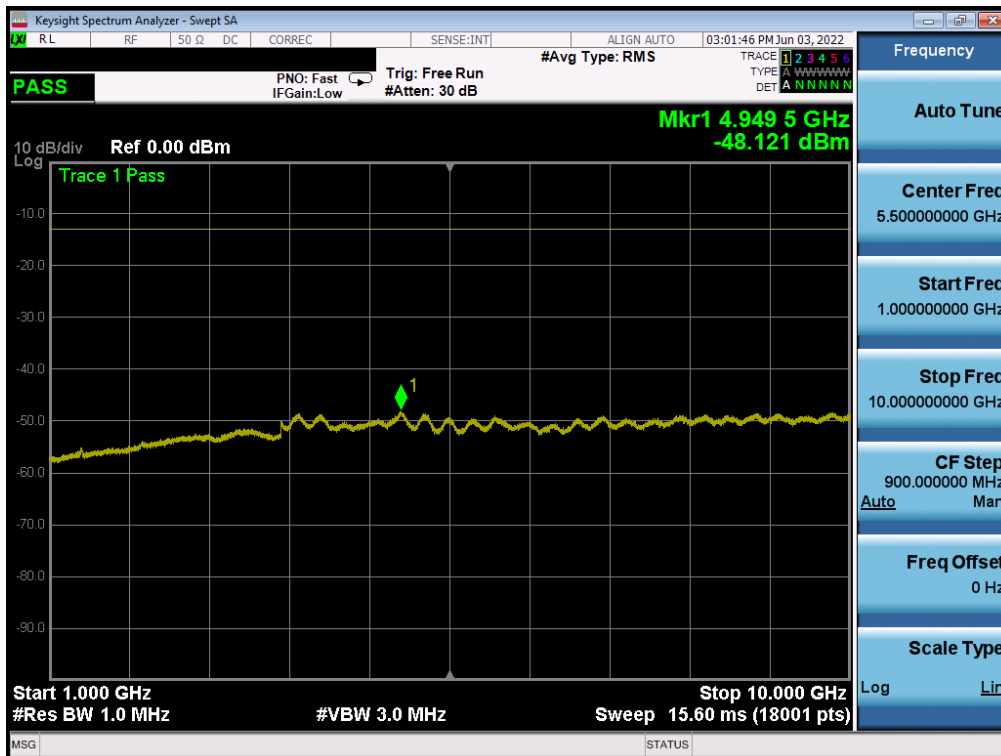


Plot 7-73. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 54 of 198

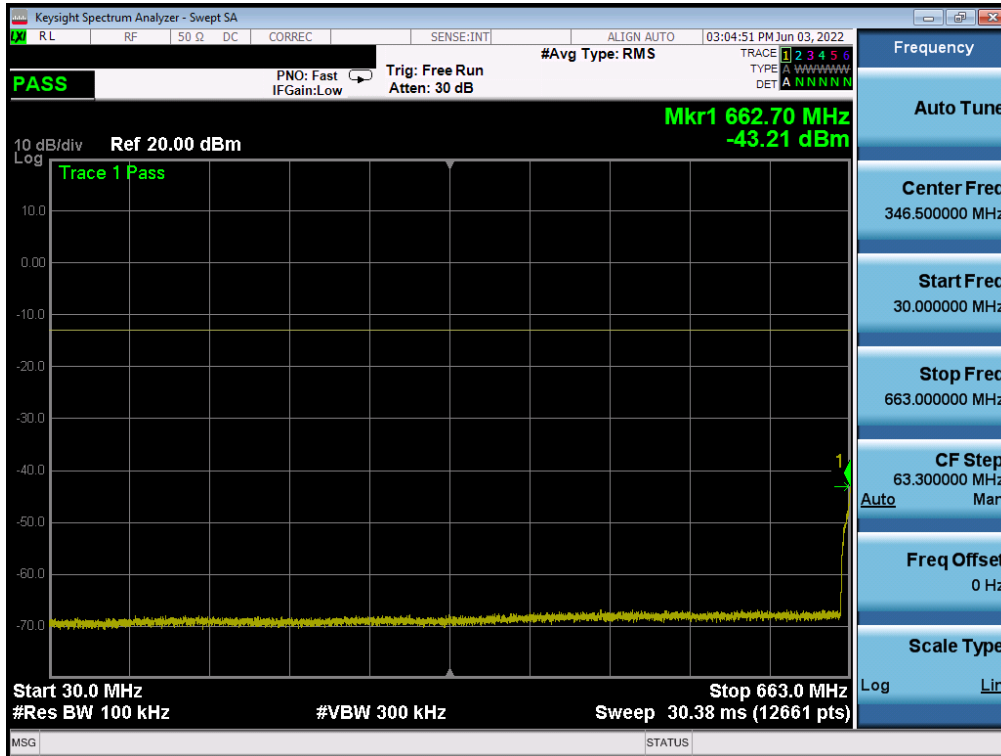


Plot 7-74. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel)

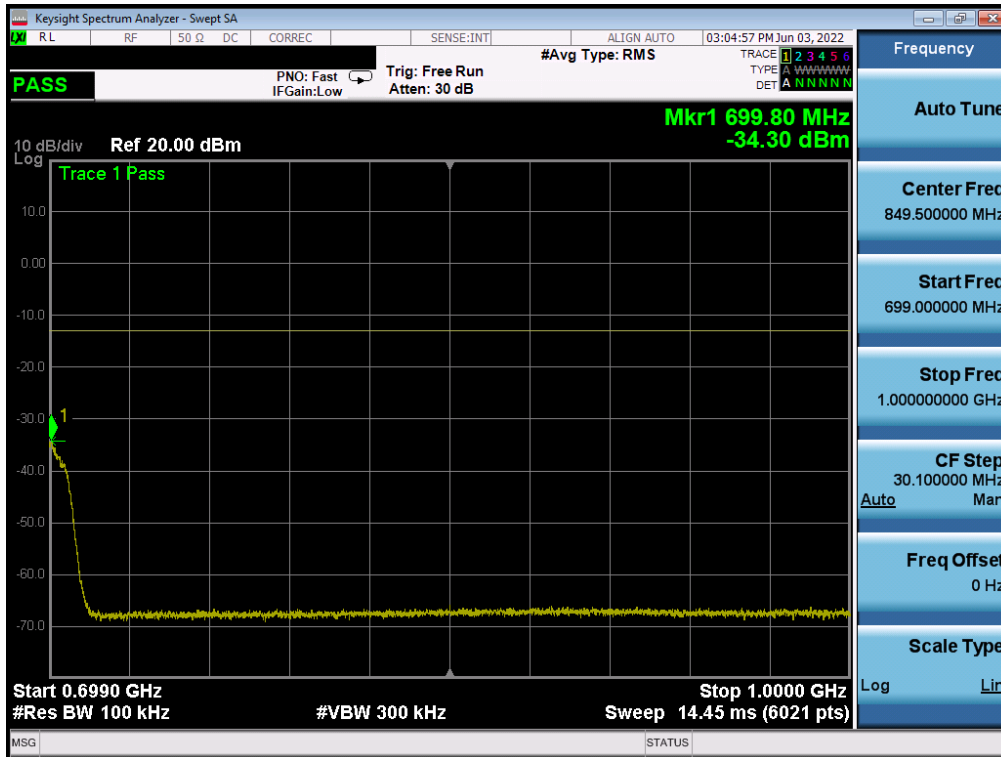


Plot 7-75. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 55 of 198

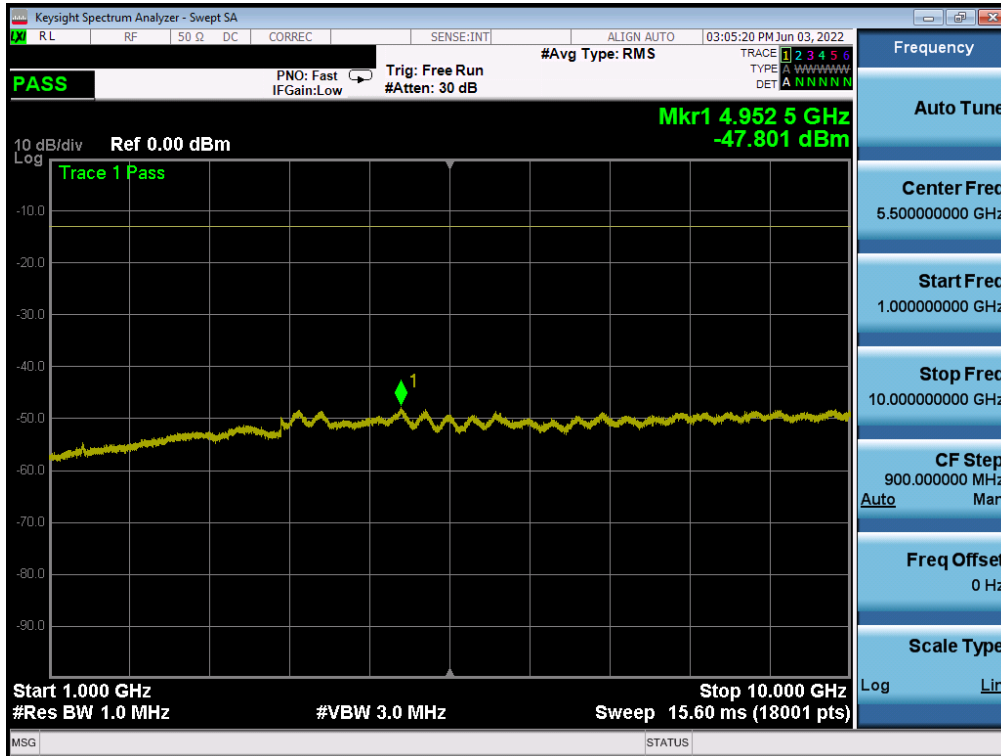


Plot 7-76. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel)



Plot 7-77. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel)

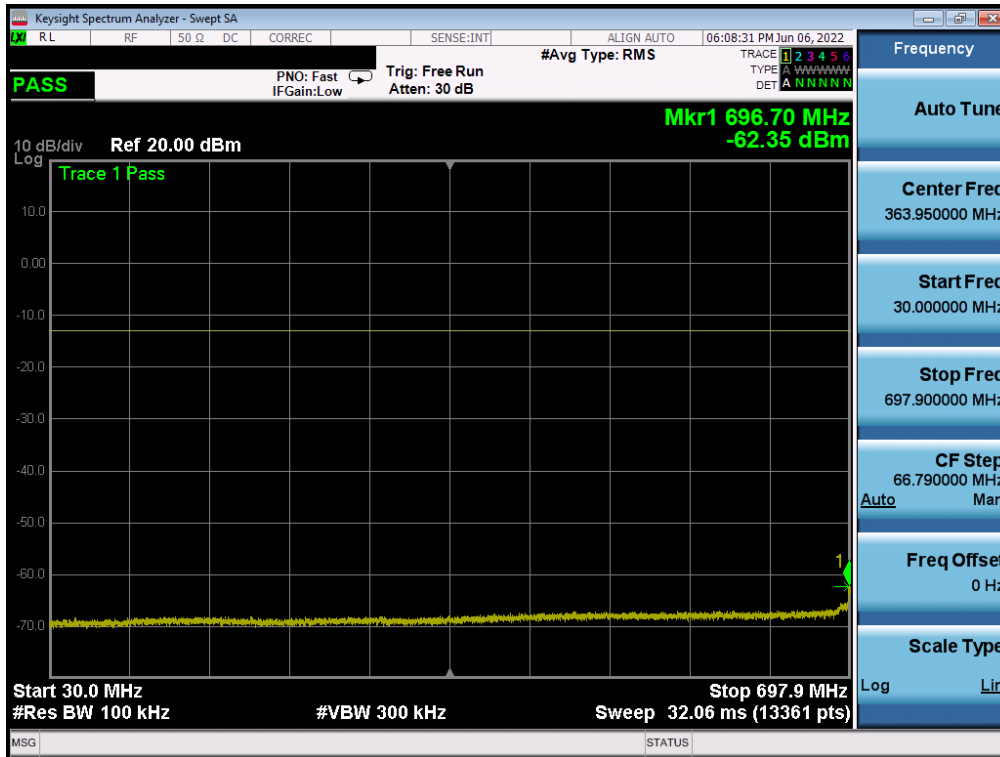
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 56 of 198



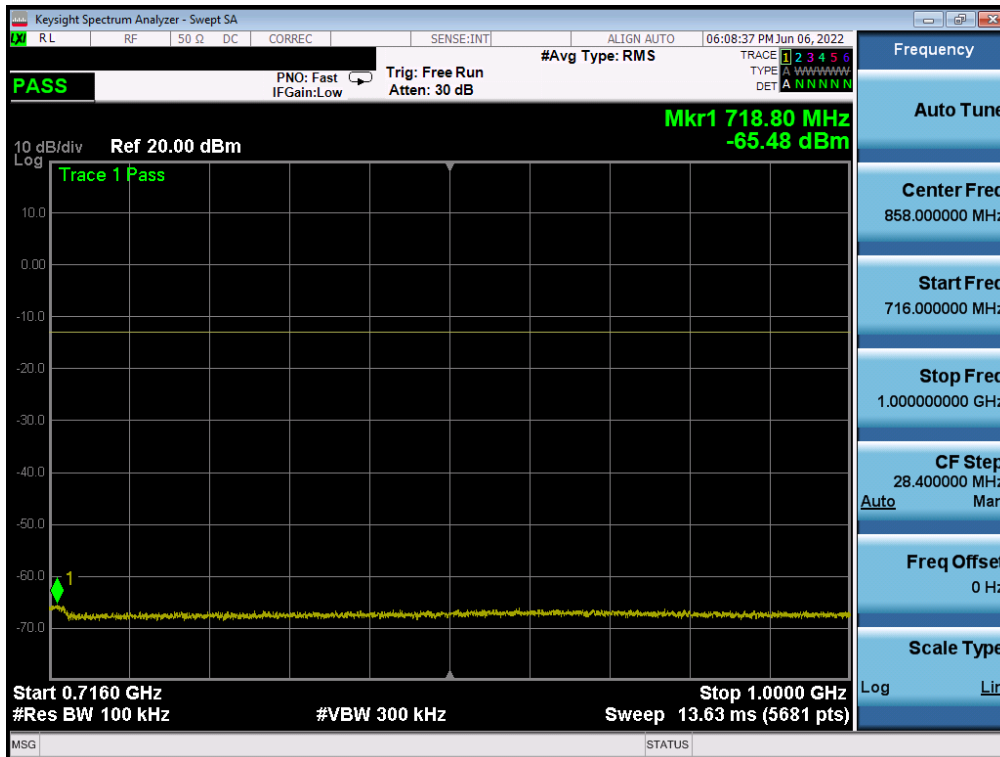
Plot 7-78. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 57 of 198

LTE Band 12/17 – Main ANT

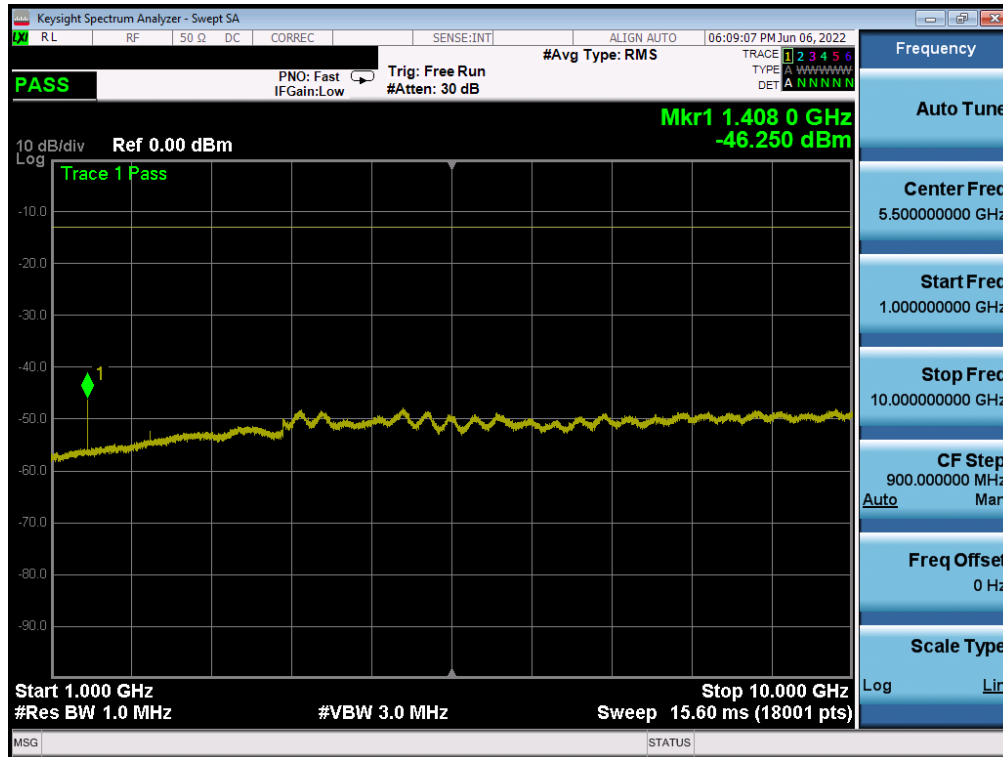


Plot 7-79. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel – Main ANT)

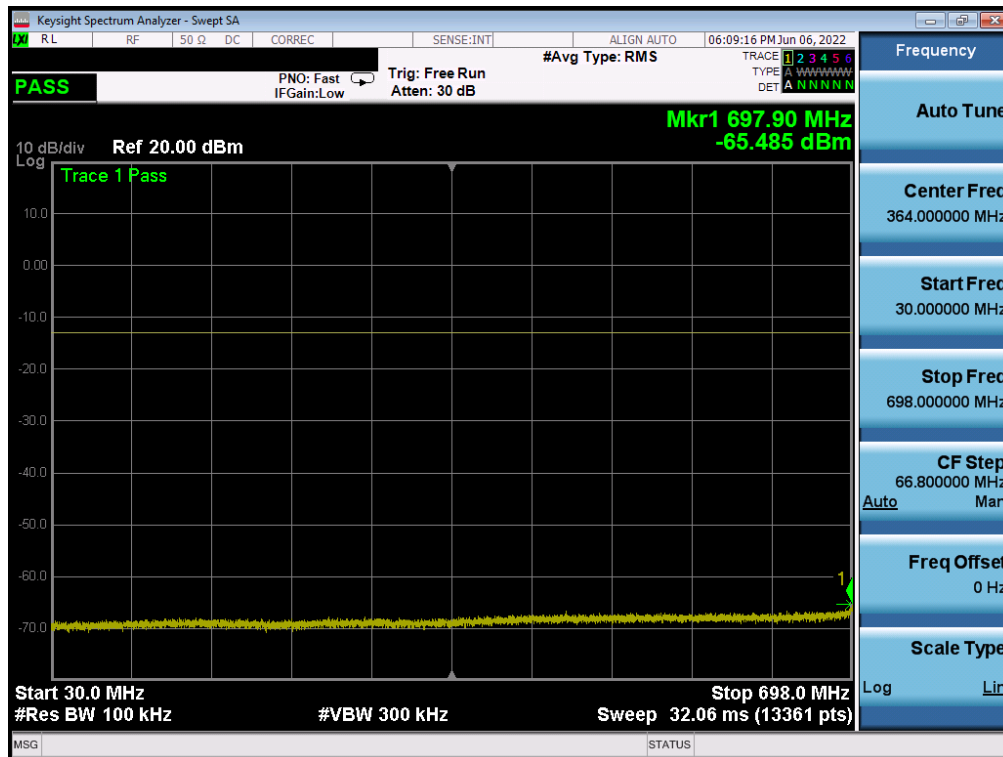


Plot 7-80. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 58 of 198

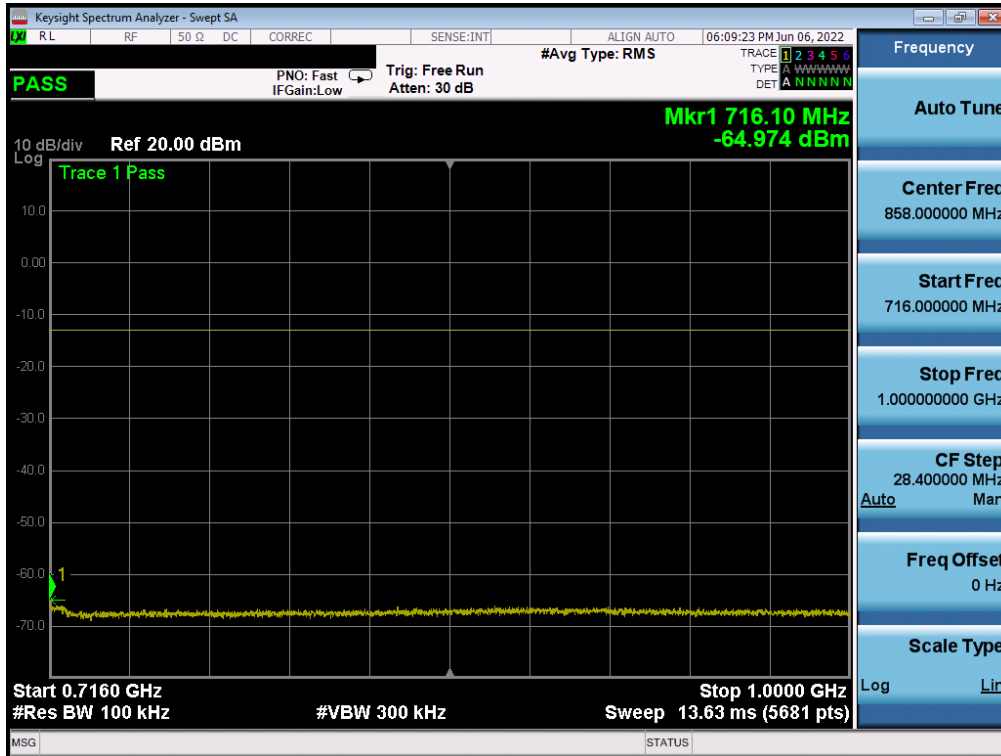


Plot 7-81. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel – Main ANT)

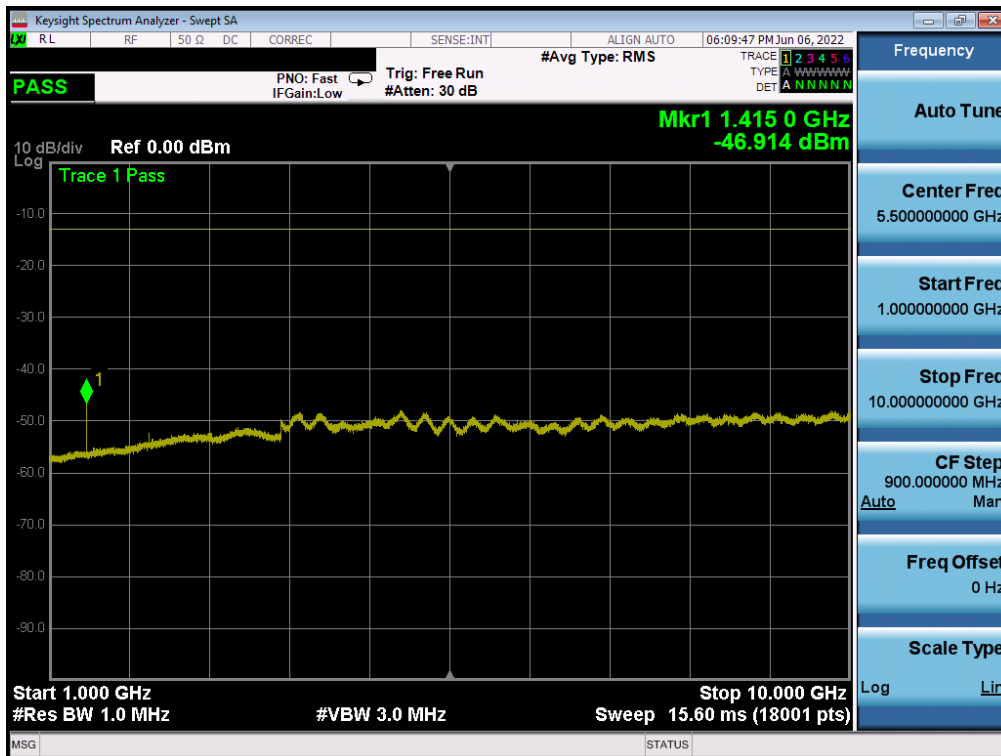


Plot 7-82. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 59 of 198

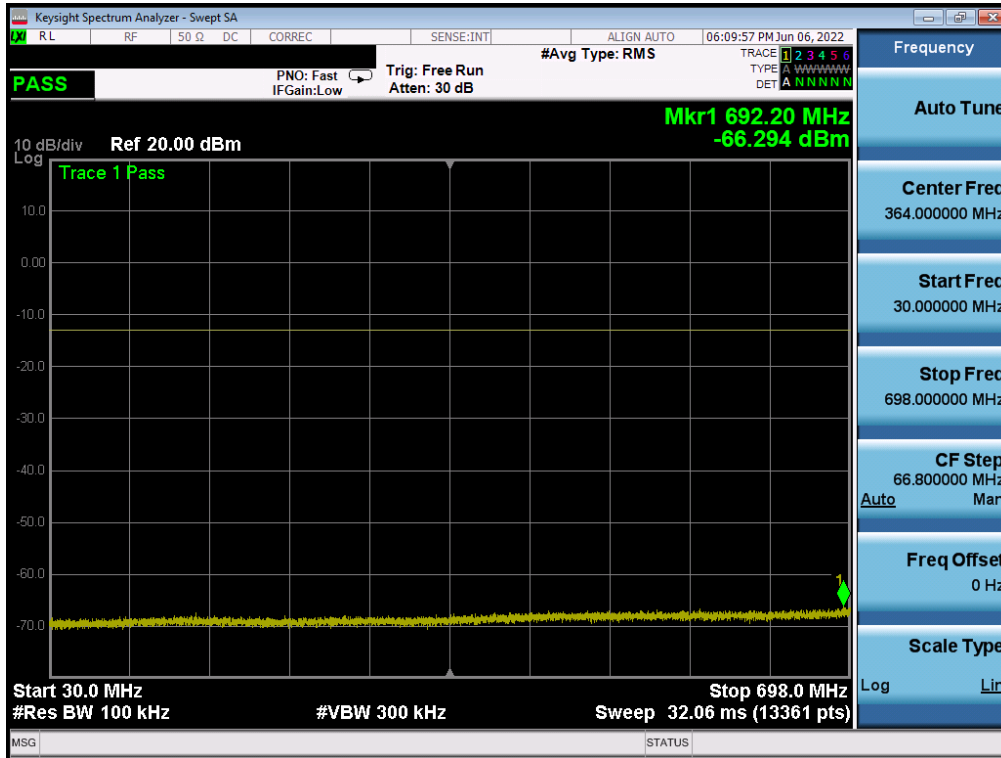


Plot 7-83. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel – Main ANT)

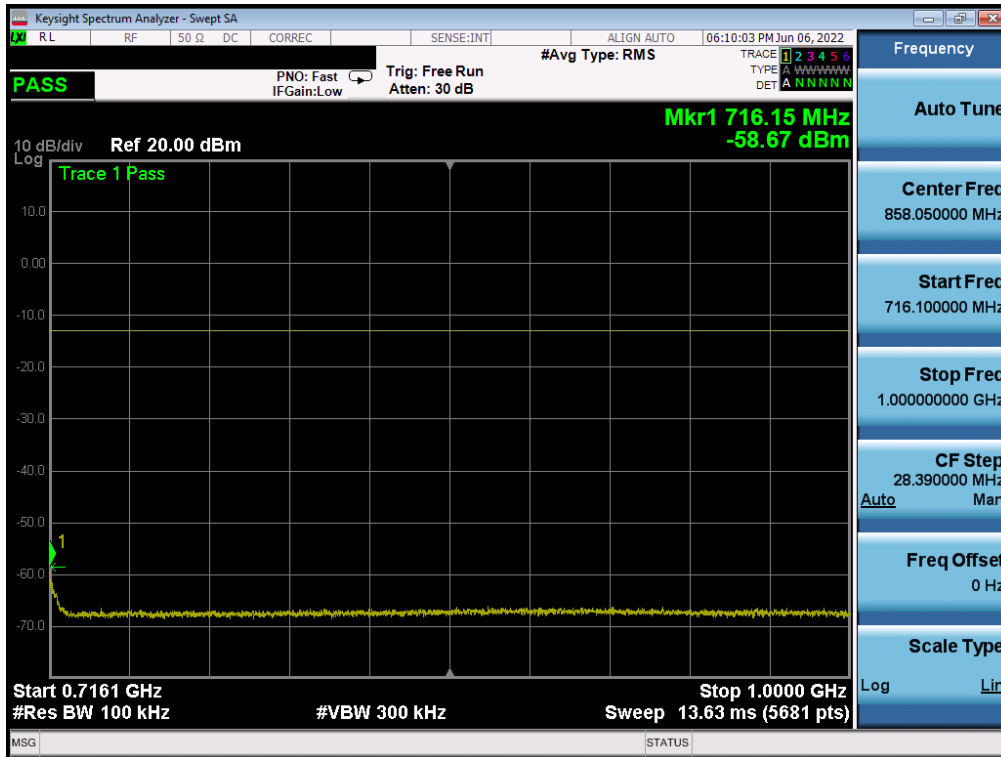


Plot 7-84. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 60 of 198

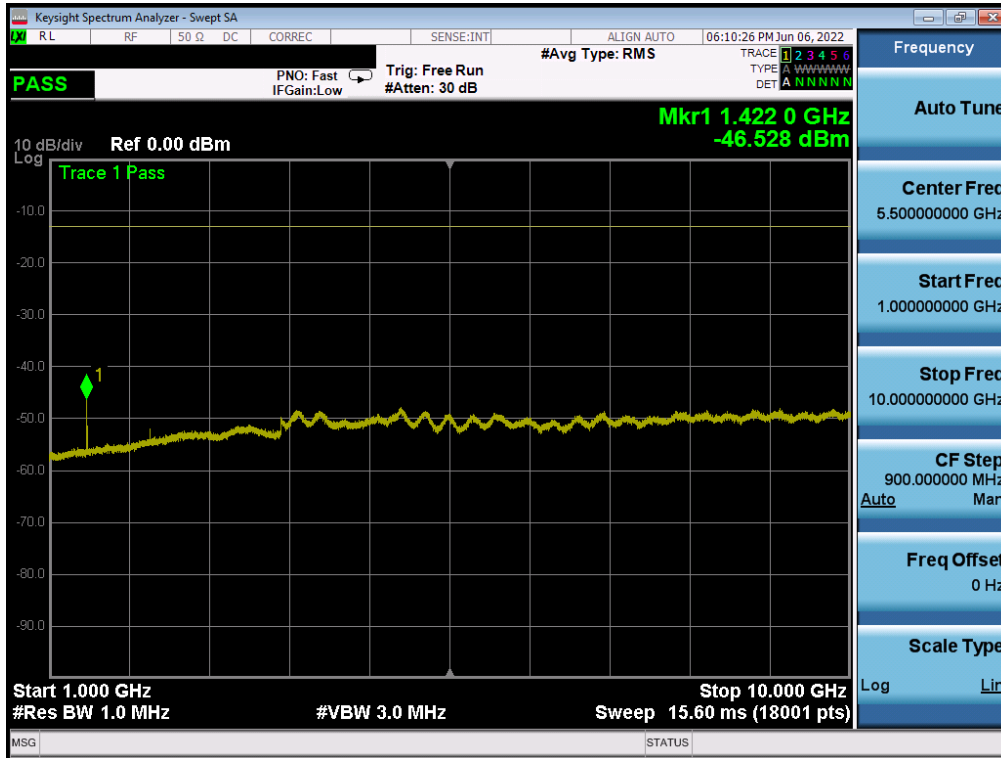


Plot 7-85. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel – Main ANT)



Plot 7-86. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel – Main ANT)

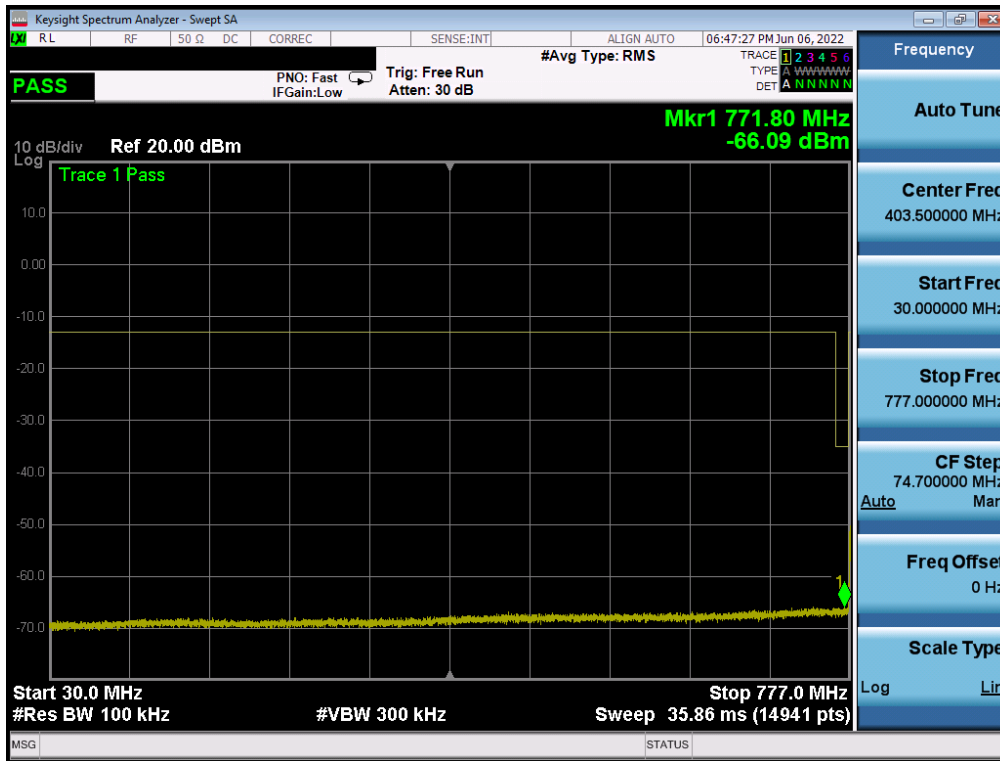
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 61 of 198



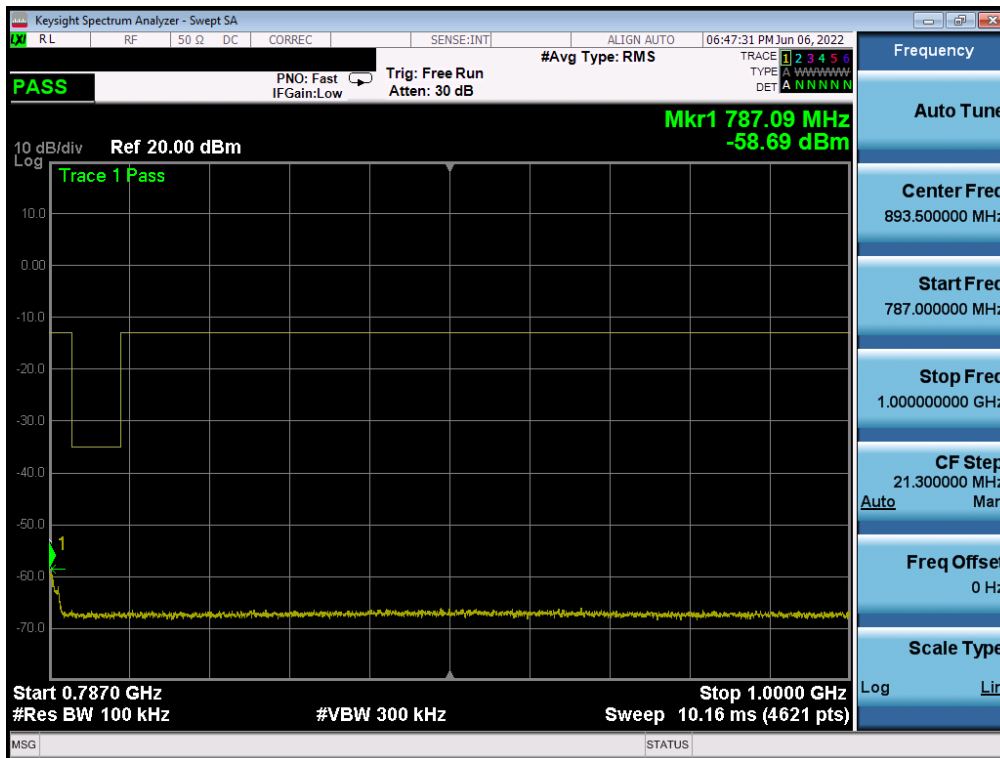
Plot 7-87. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 62 of 198

LTE Band 13 – Main ANT

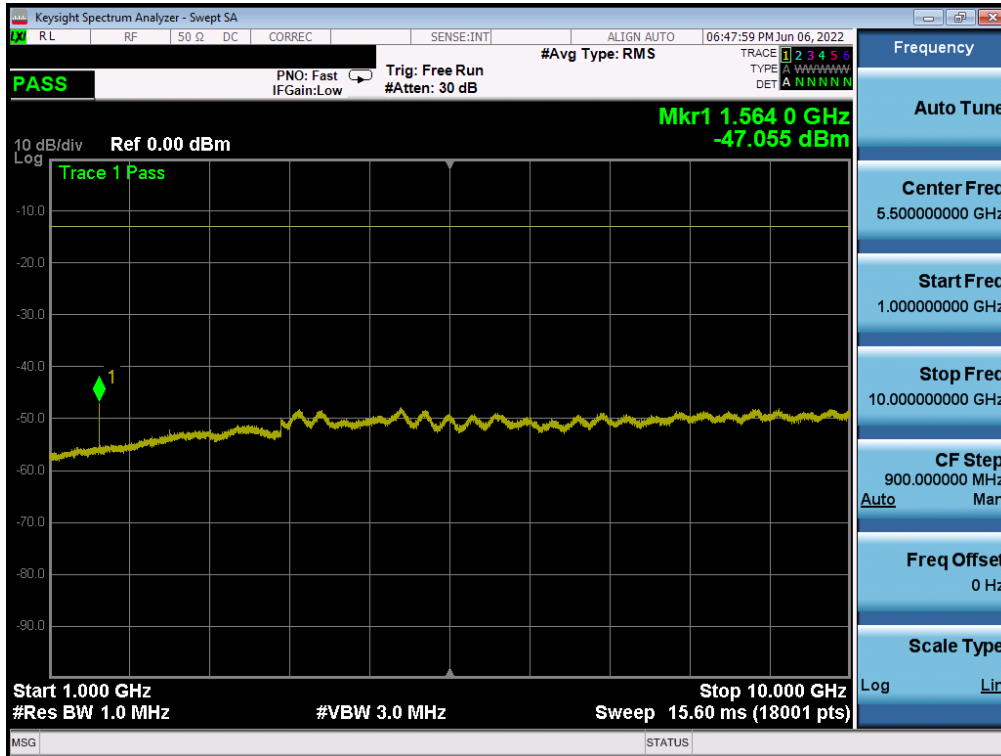


Plot 7-88. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB – Main ANT)



Plot 7-89. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB – Main ANT)

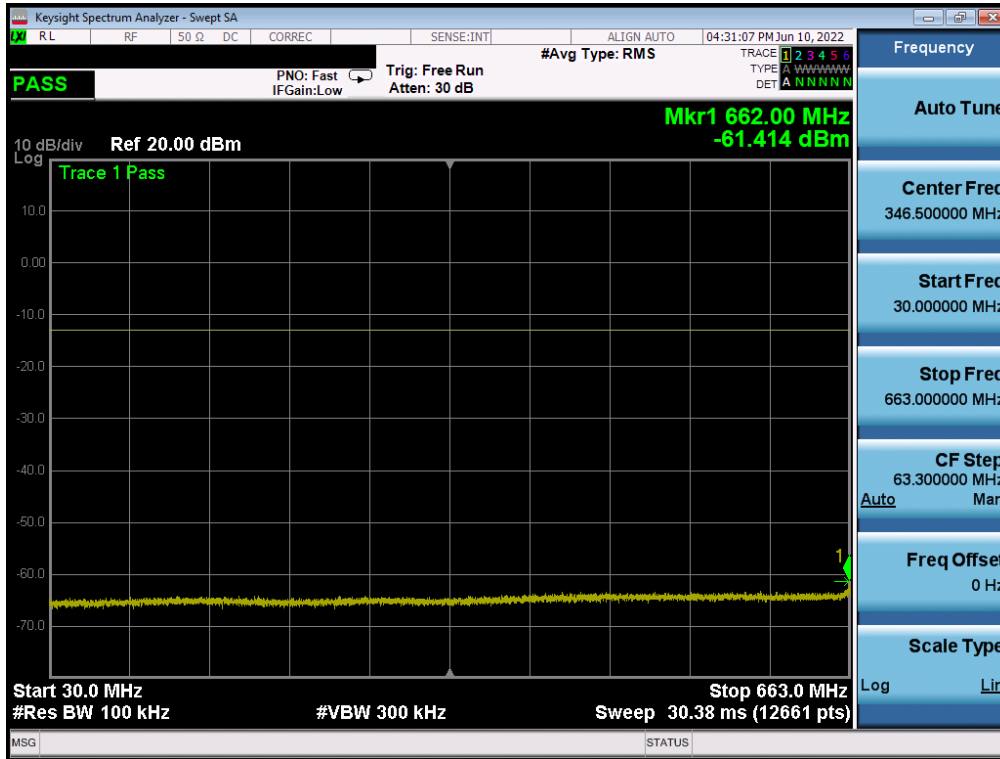
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 63 of 198



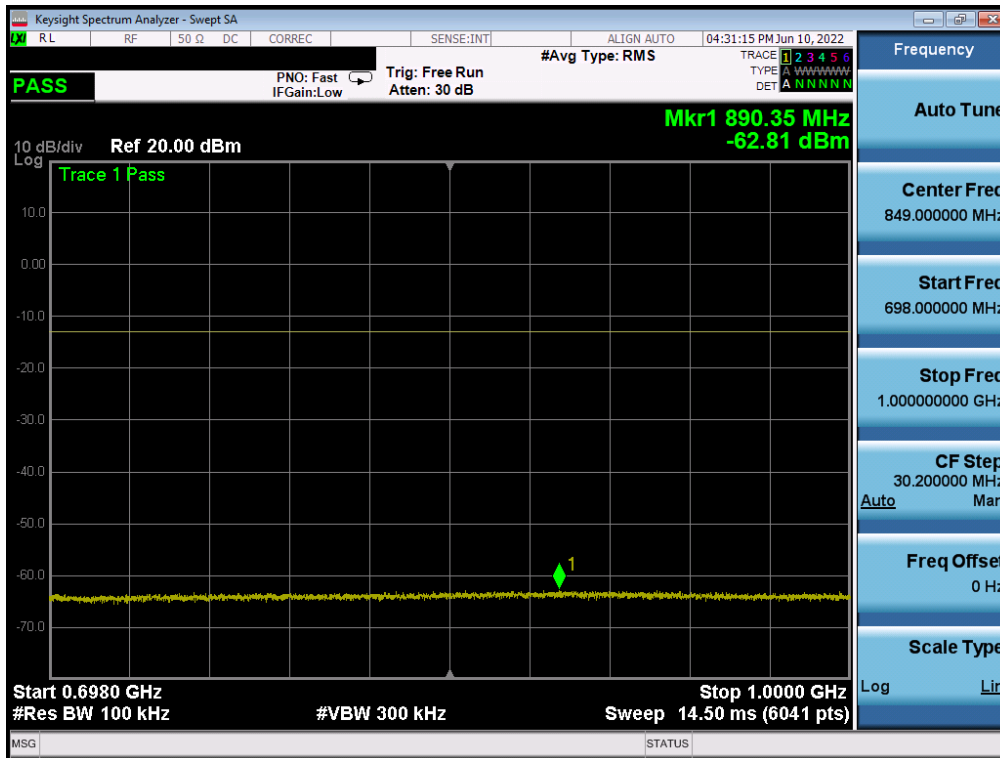
Plot 7-90. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 64 of 198

NR Band n71

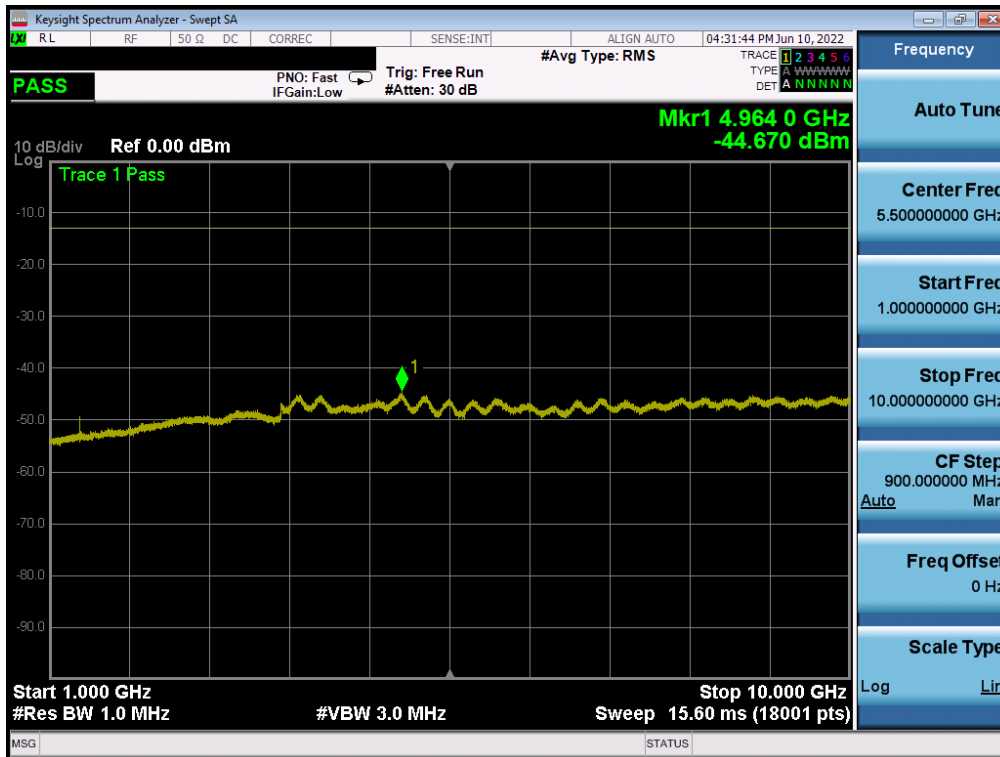


Plot 7-91. Conducted Spurious Plot (NR Band n71 -20.0MHz - 1 RB - Low Channel)



Plot 7-92. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Low Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 65 of 198

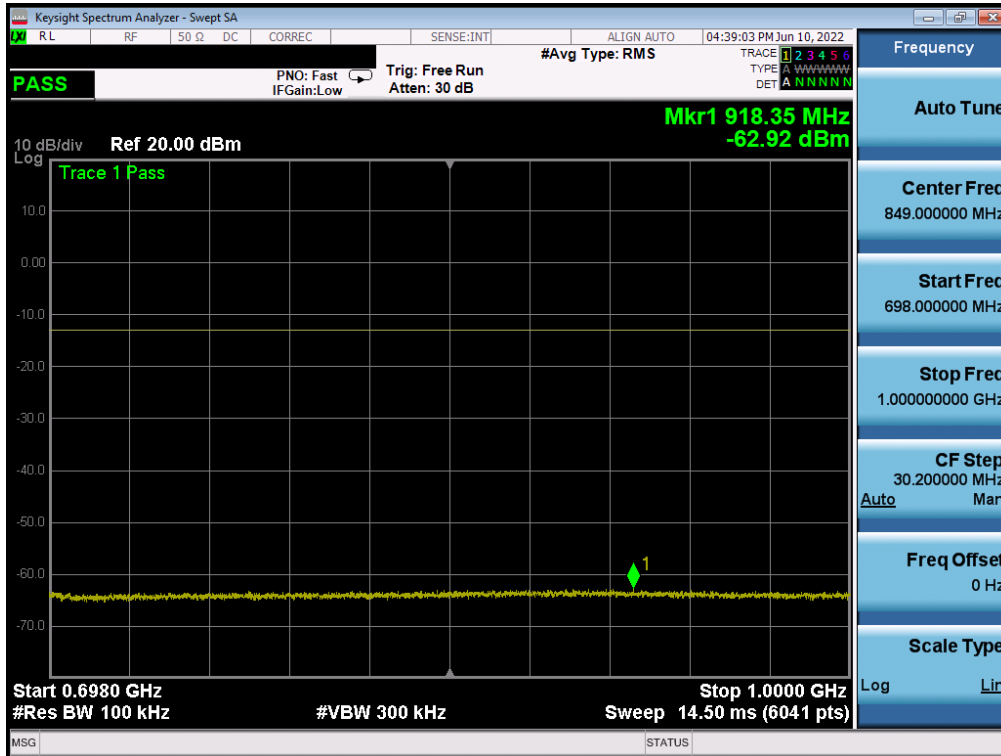


Plot 7-93. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Low Channel)

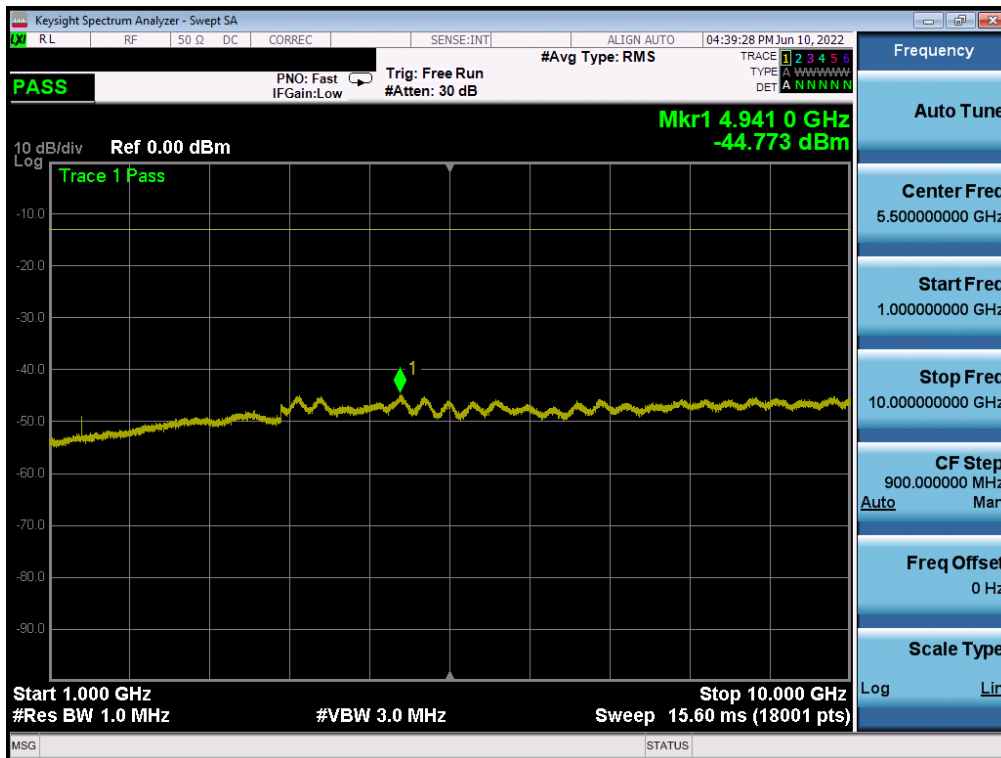


Plot 7-94. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 66 of 198

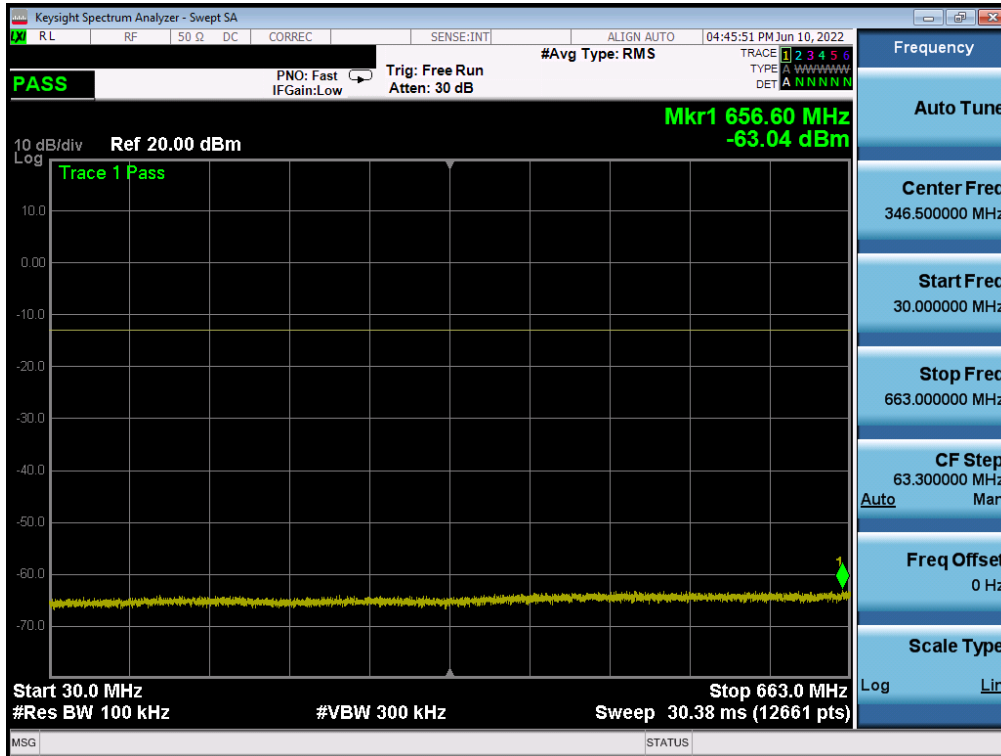


Plot 7-95. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel)

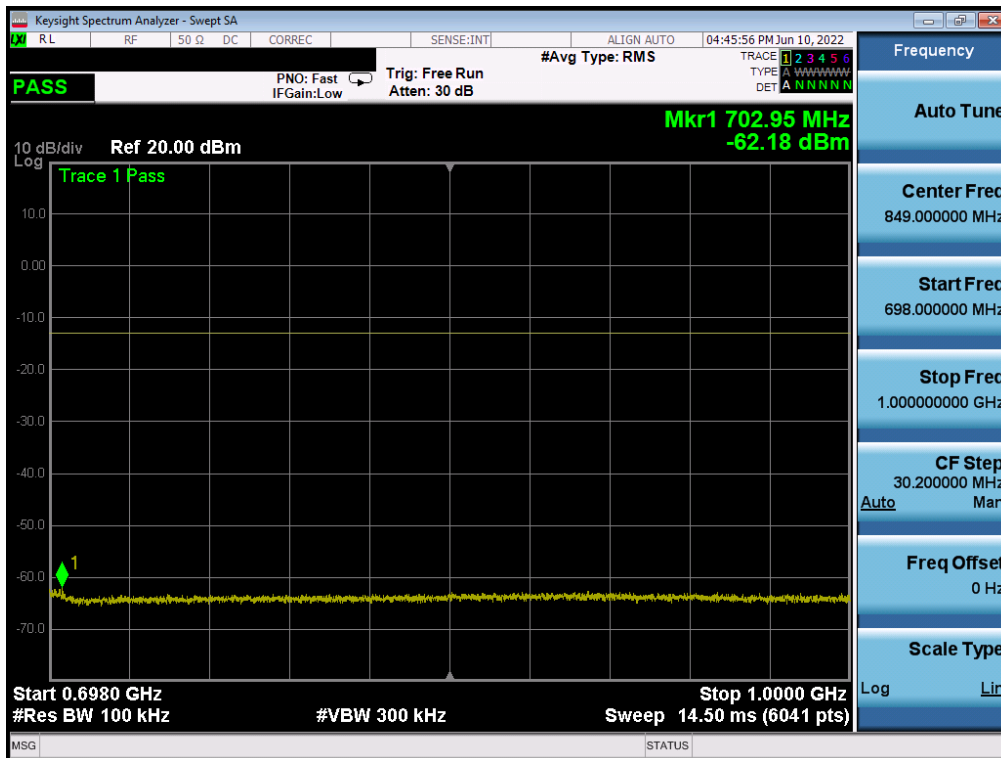


Plot 7-96. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 67 of 198

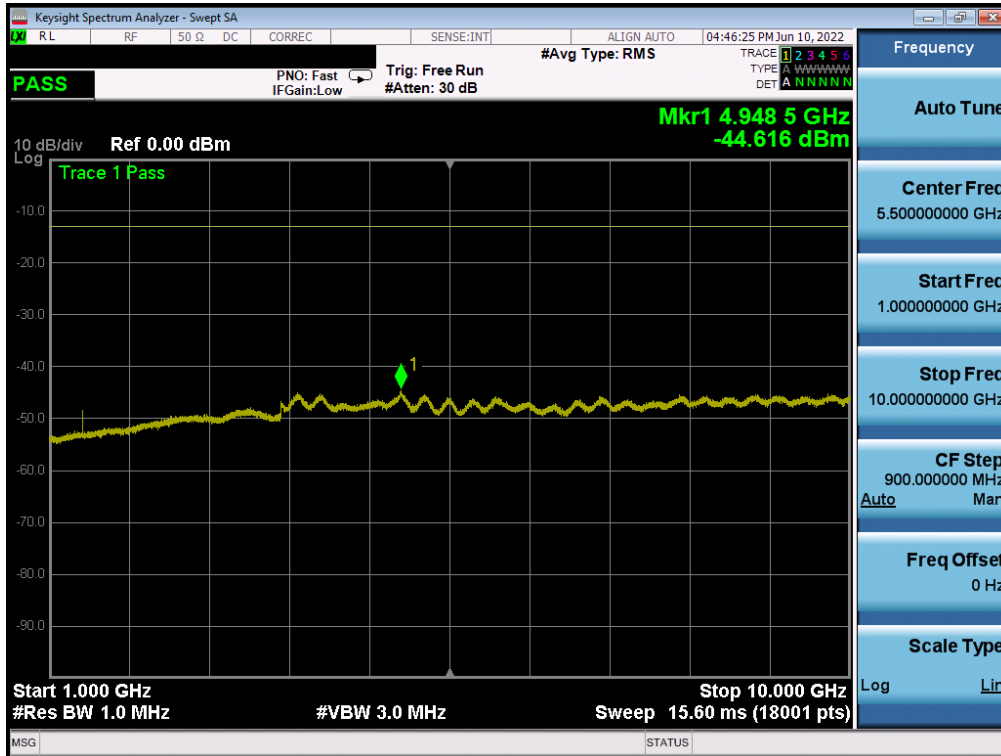


Plot 7-97. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel)



Plot 7-98. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel)

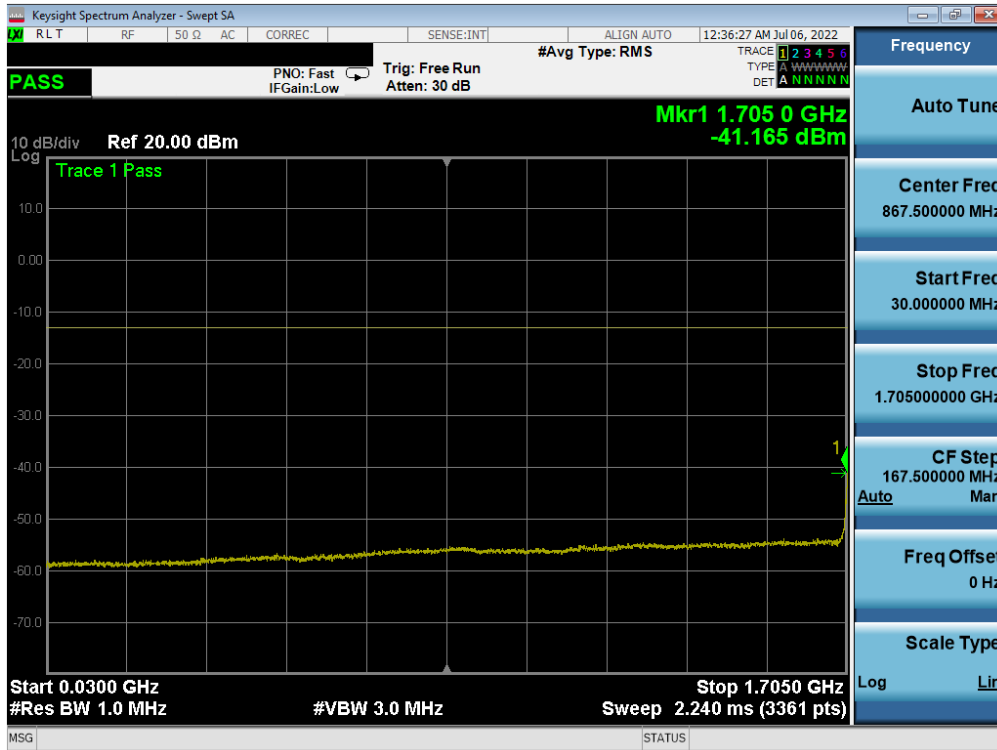
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 68 of 198



Plot 7-99. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 69 of 198

WCDMA AWS



Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel)

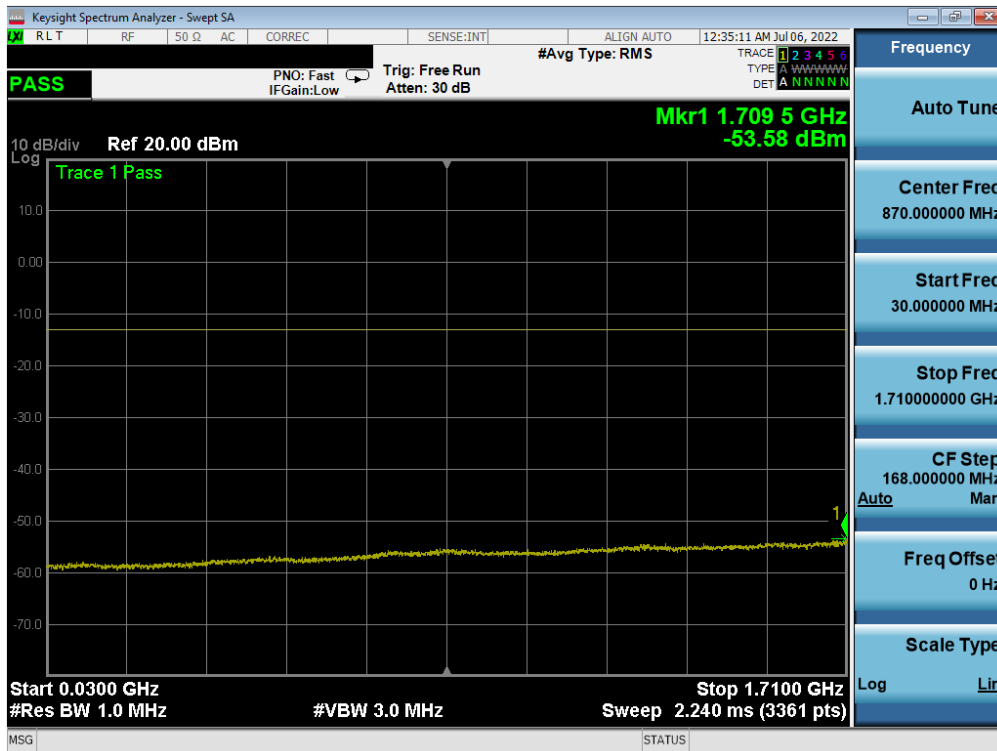


Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 70 of 198

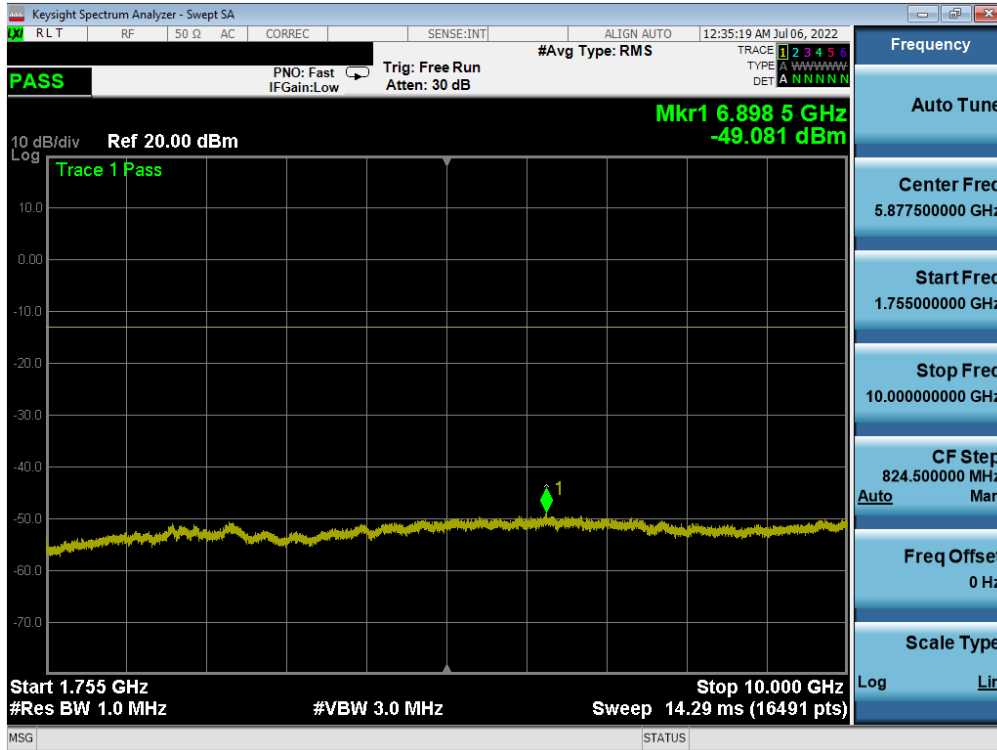


Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel)

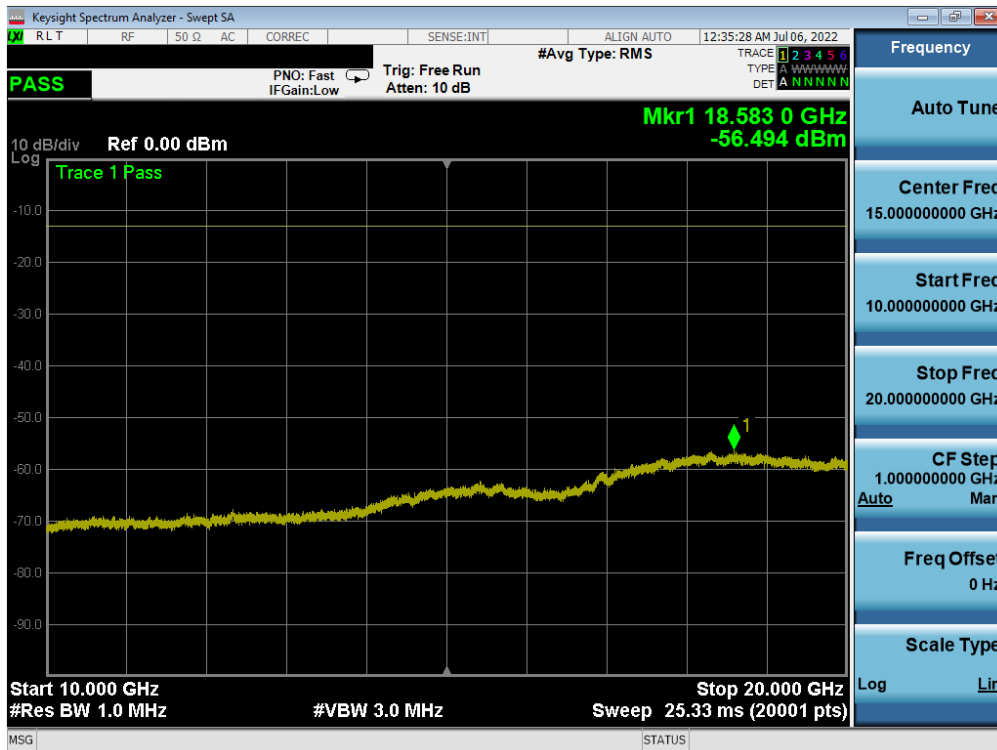


Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 71 of 198

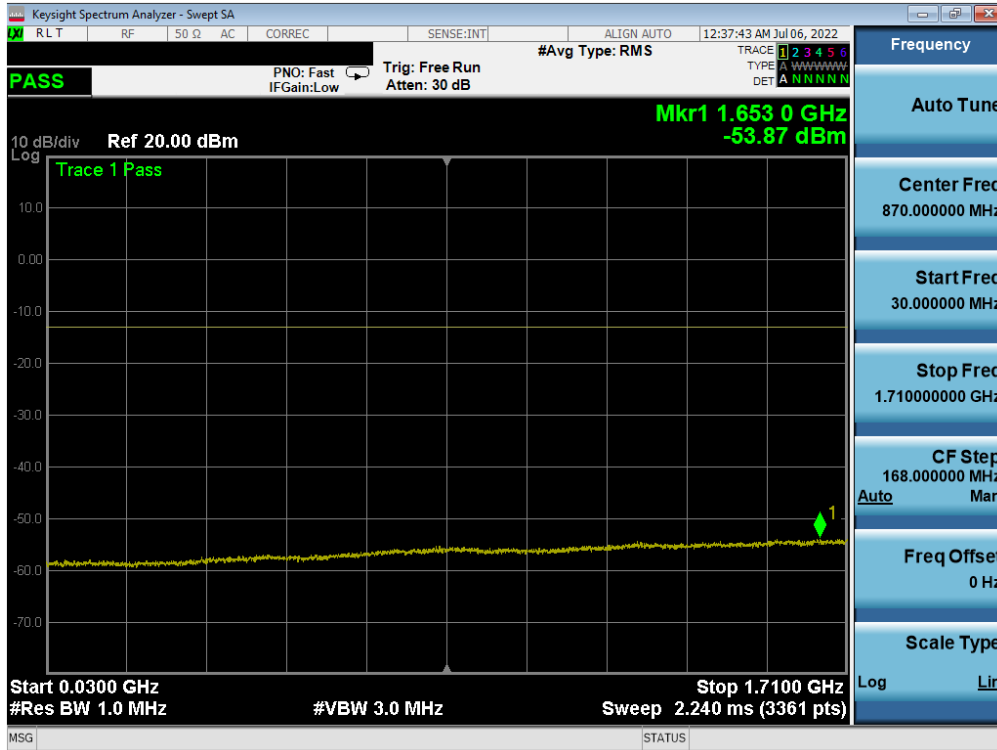


Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel)

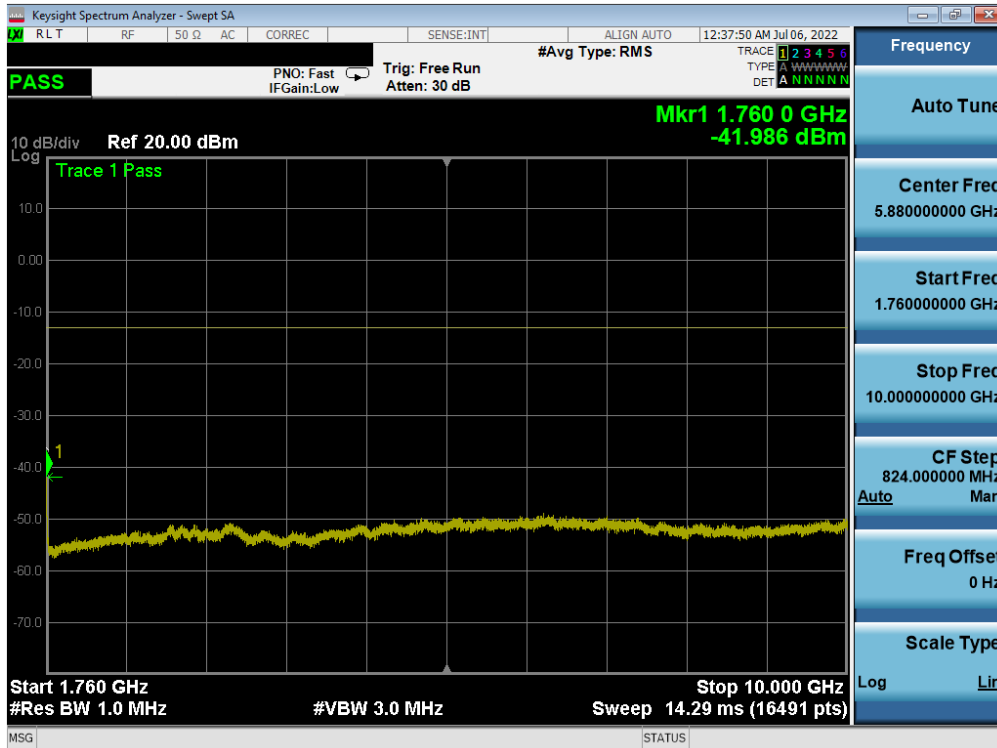


Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 72 of 198

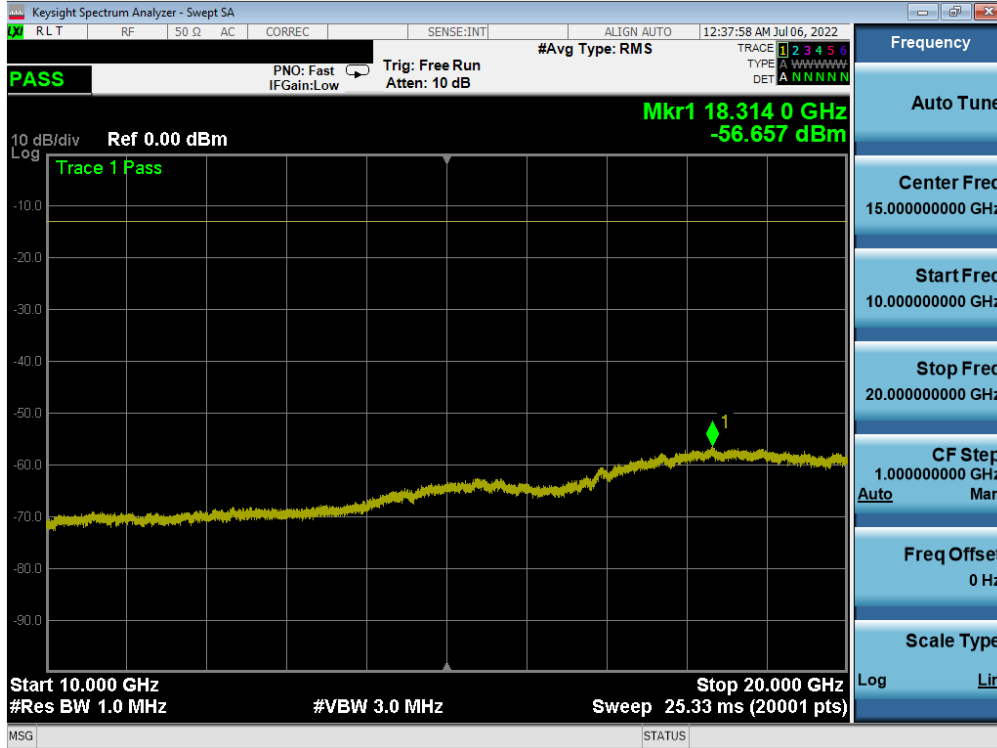


Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)



Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)

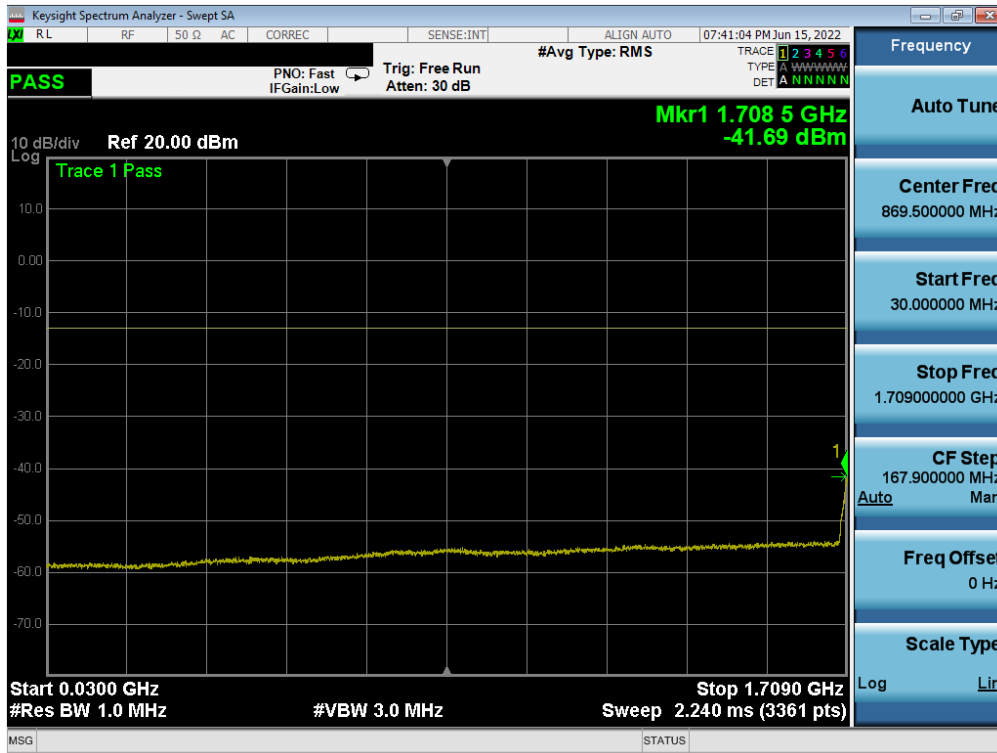
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 73 of 198



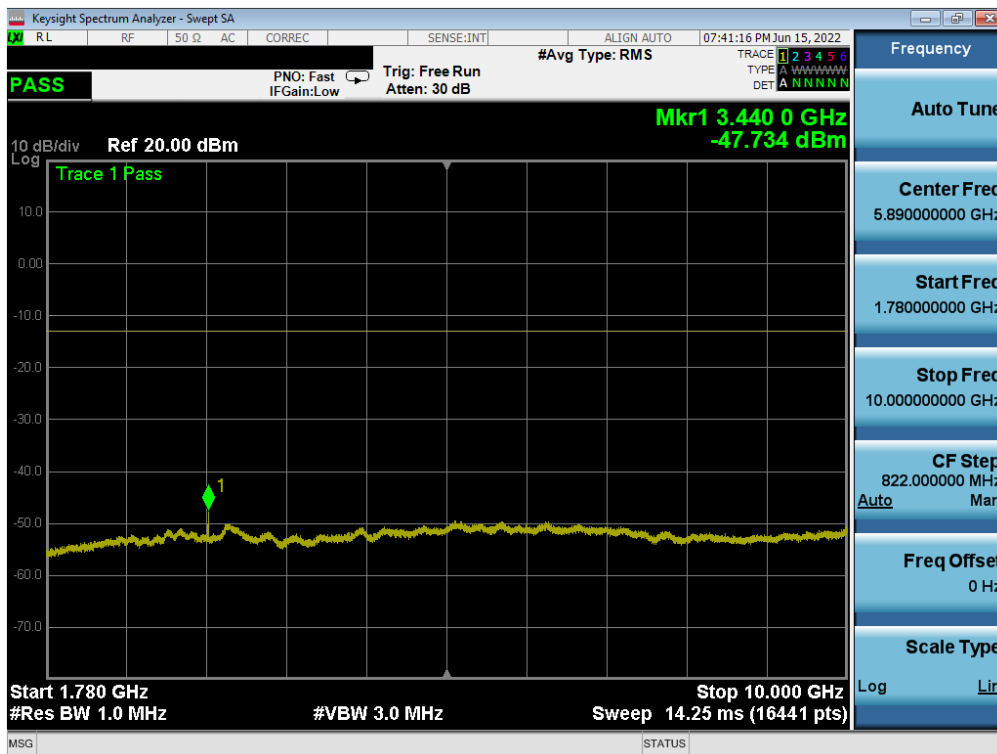
Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 74 of 198

LTE Band 66/4

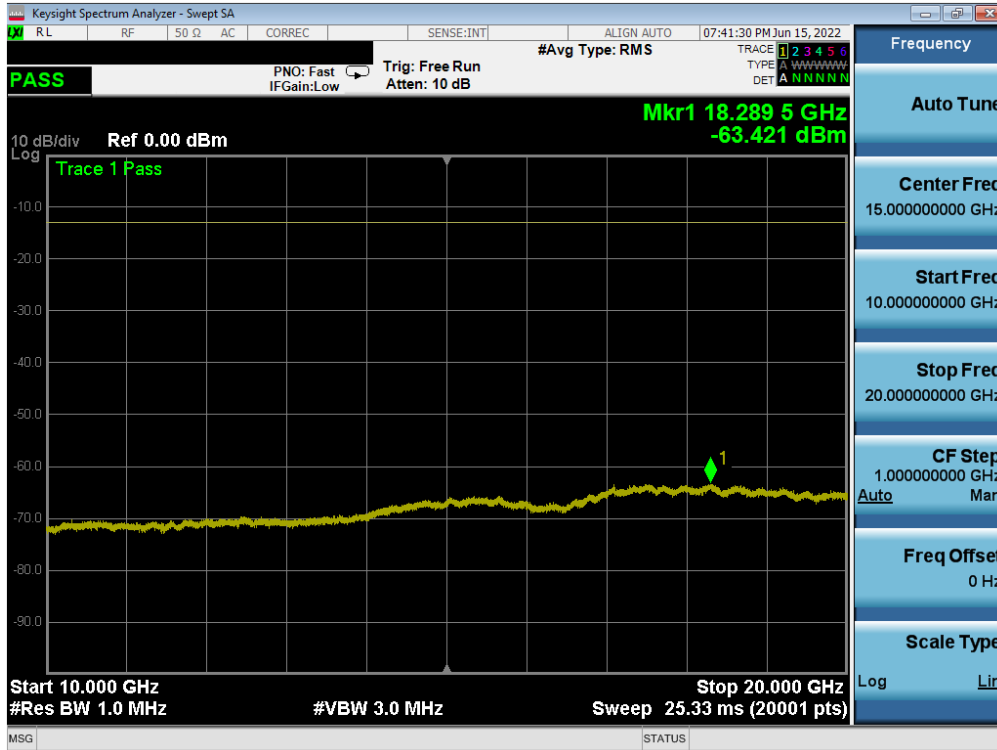


Plot 7-100. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel)

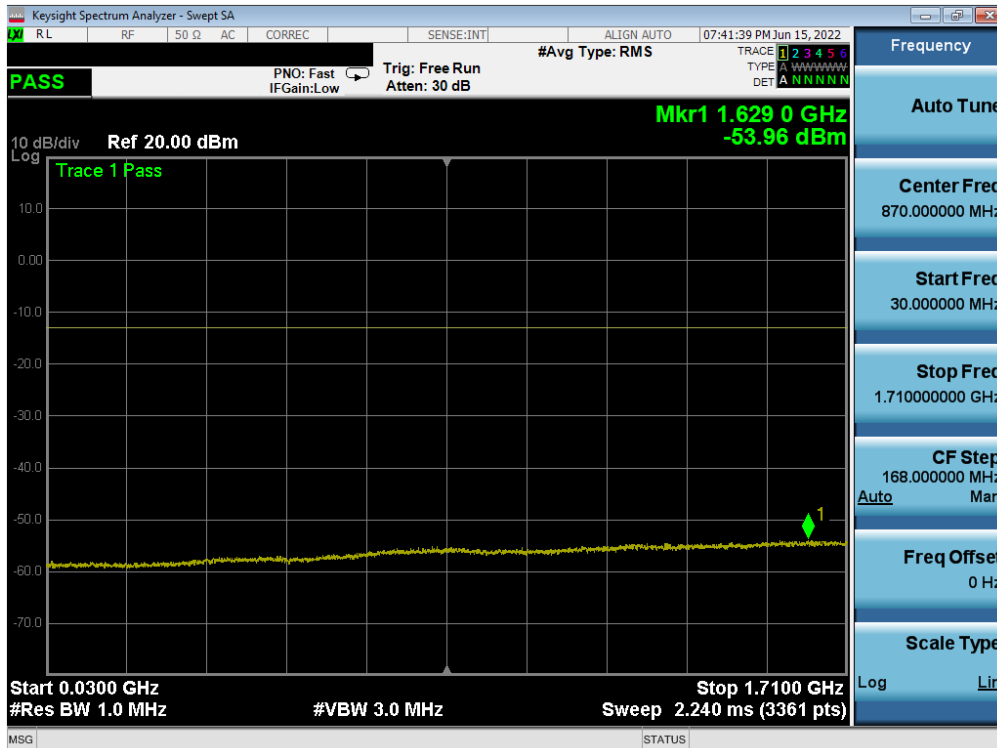


Plot 7-101. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 75 of 198



Plot 7-102. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel)

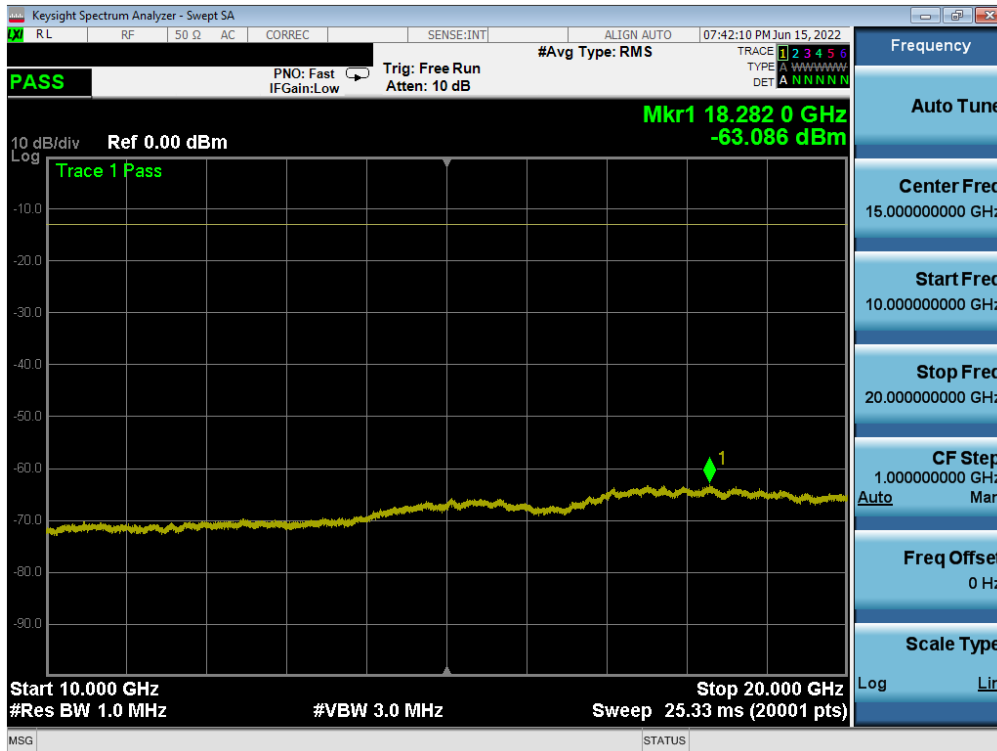


Plot 7-103. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 76 of 198

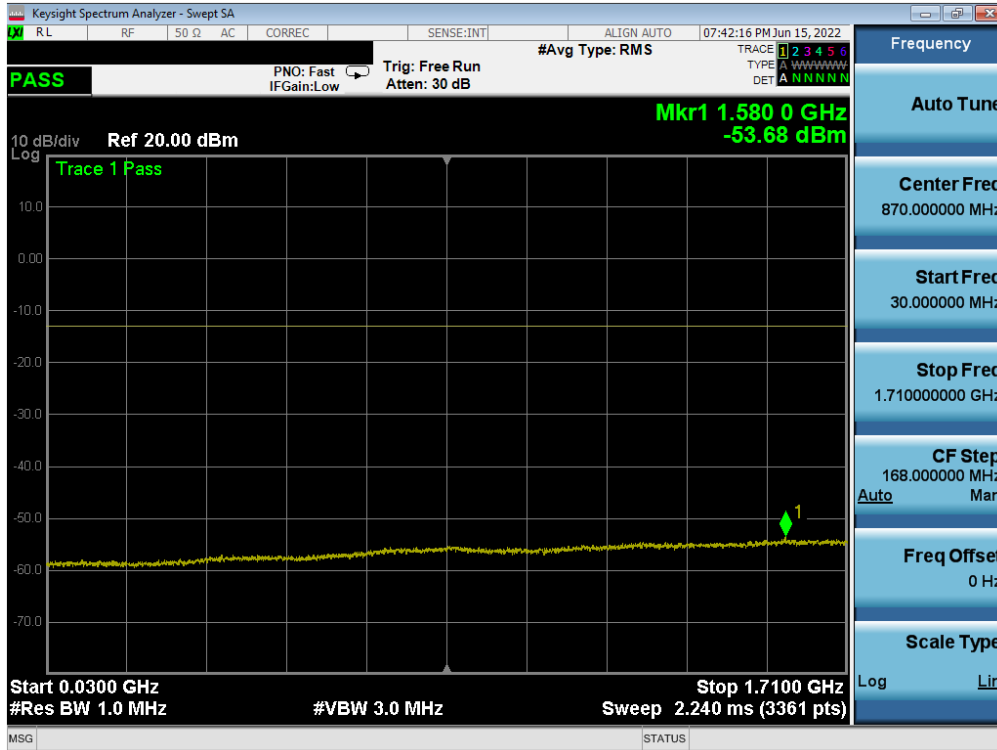


Plot 7-104. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel)

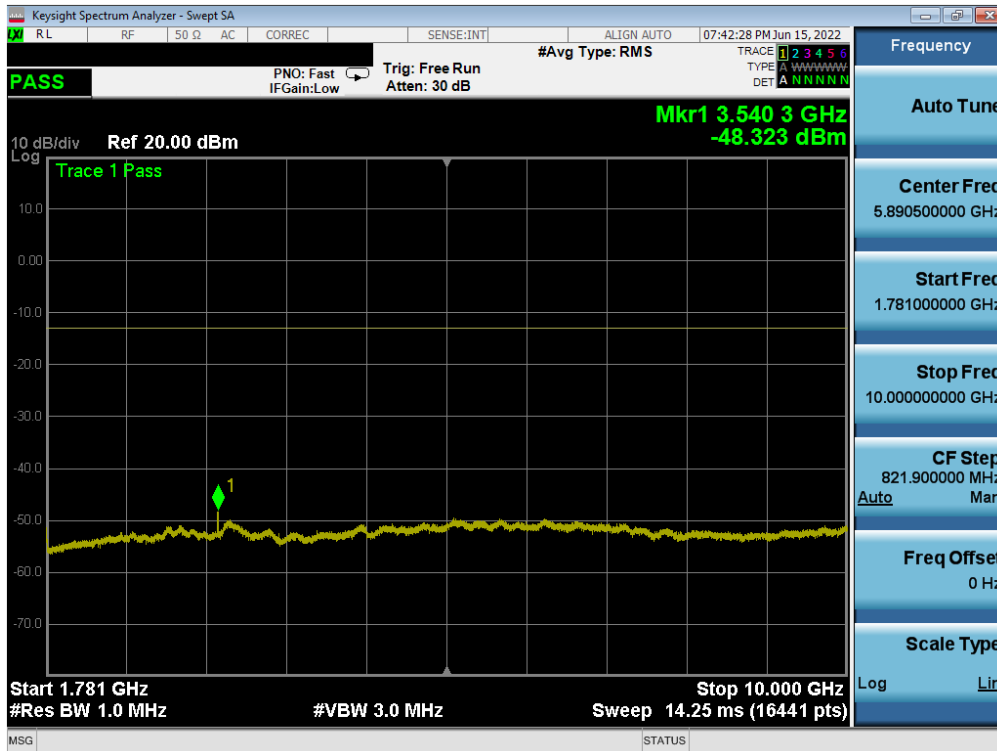


Plot 7-105. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 77 of 198

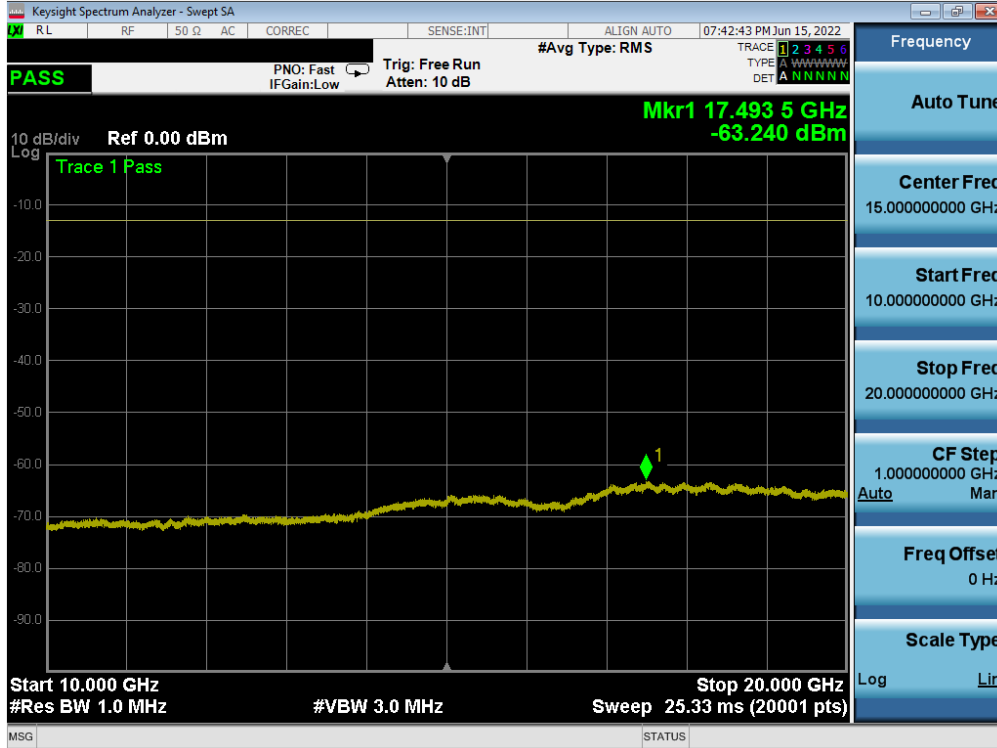


Plot 7-106. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel)



Plot 7-107. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel)

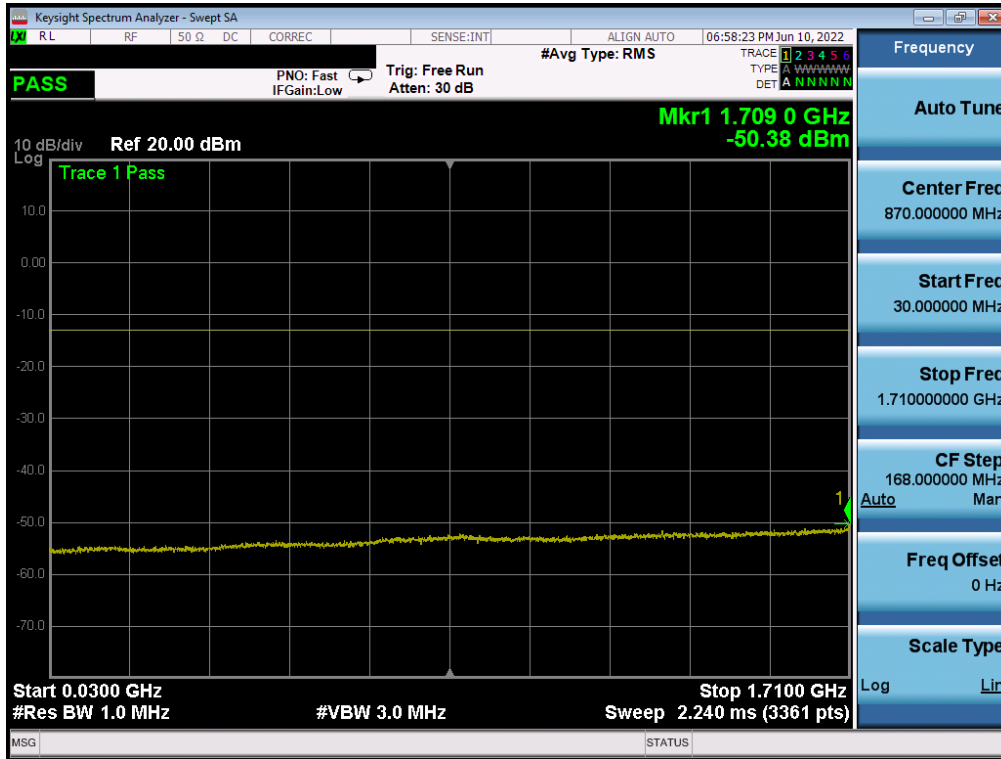
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 78 of 198



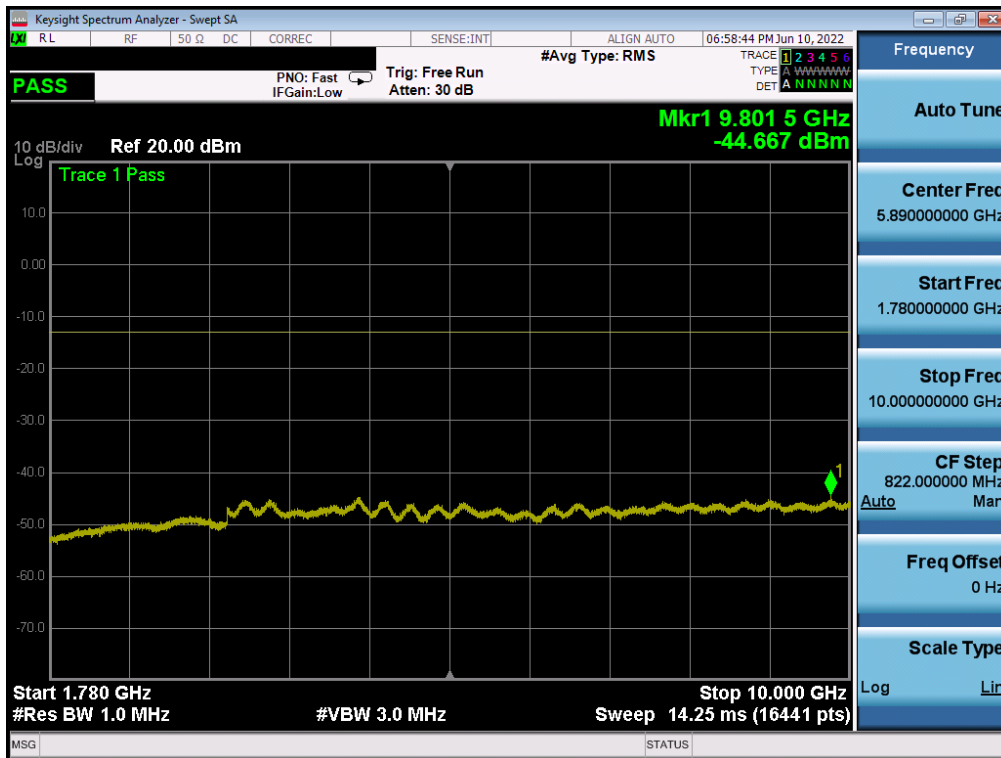
Plot 7-108. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 79 of 198

NR Band n66

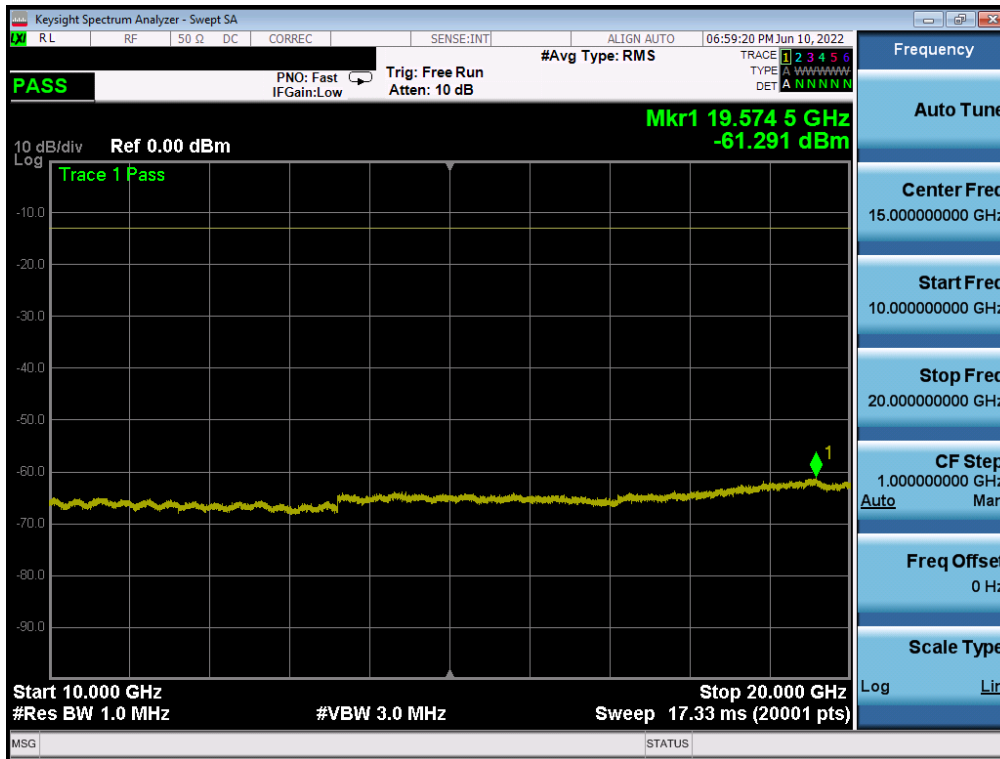


Plot 7-109. Conducted Spurious Plot (NR Band n66 -20.0MHz - 1 RB - Low Channel)

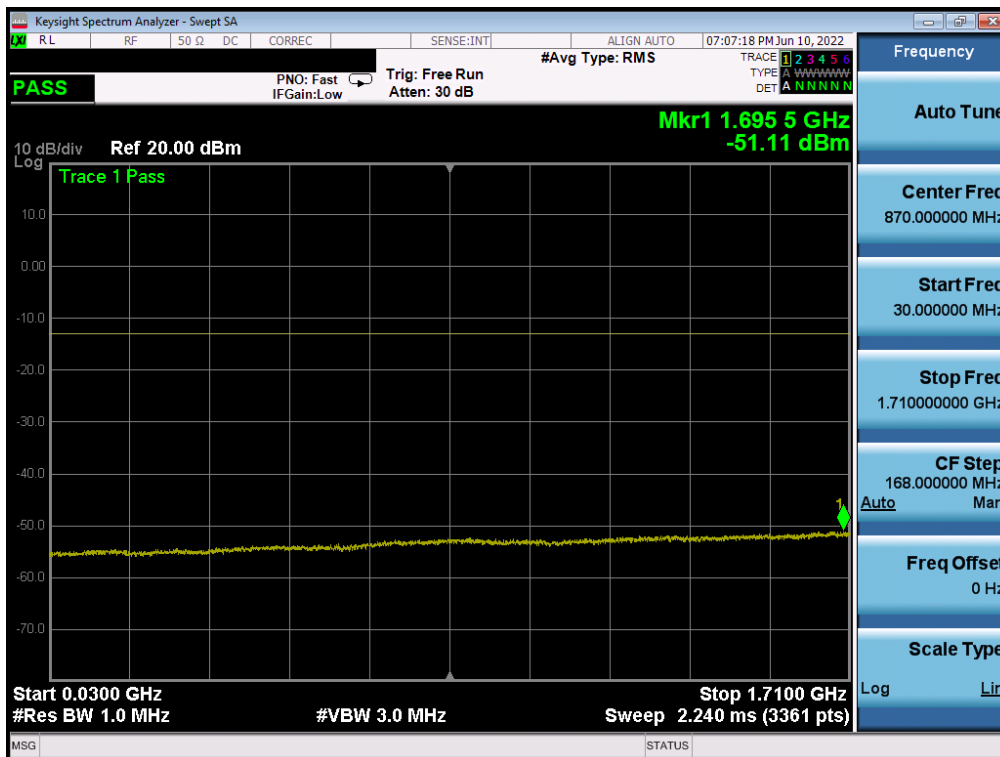


Plot 7-110. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - Low Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 80 of 198

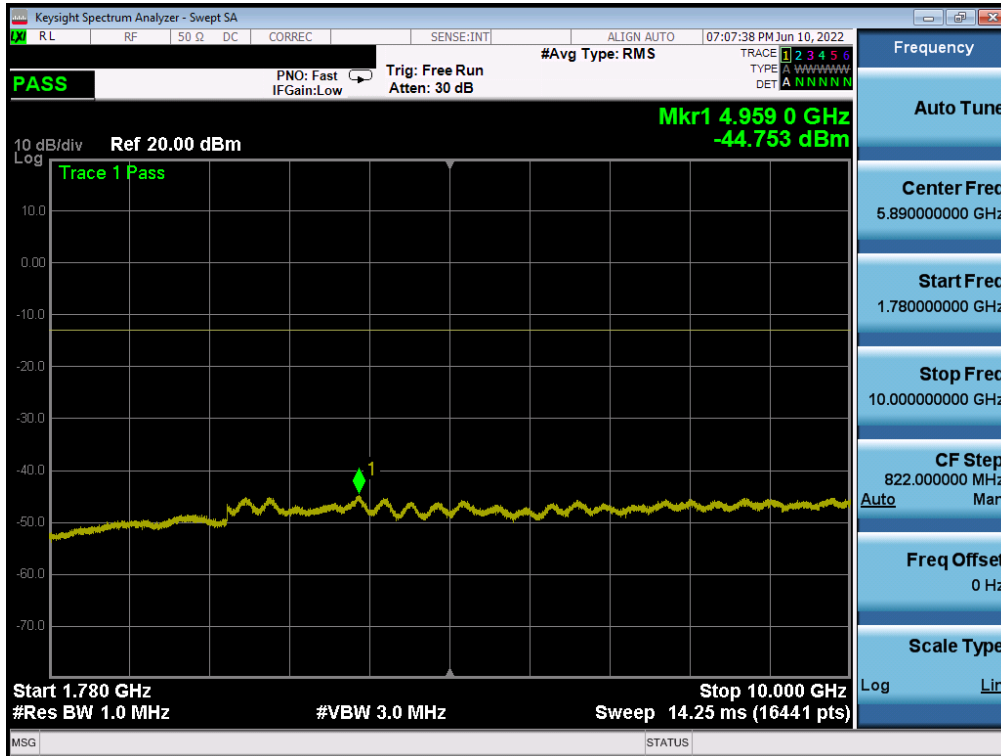


Plot 7-111. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - Low Channel)

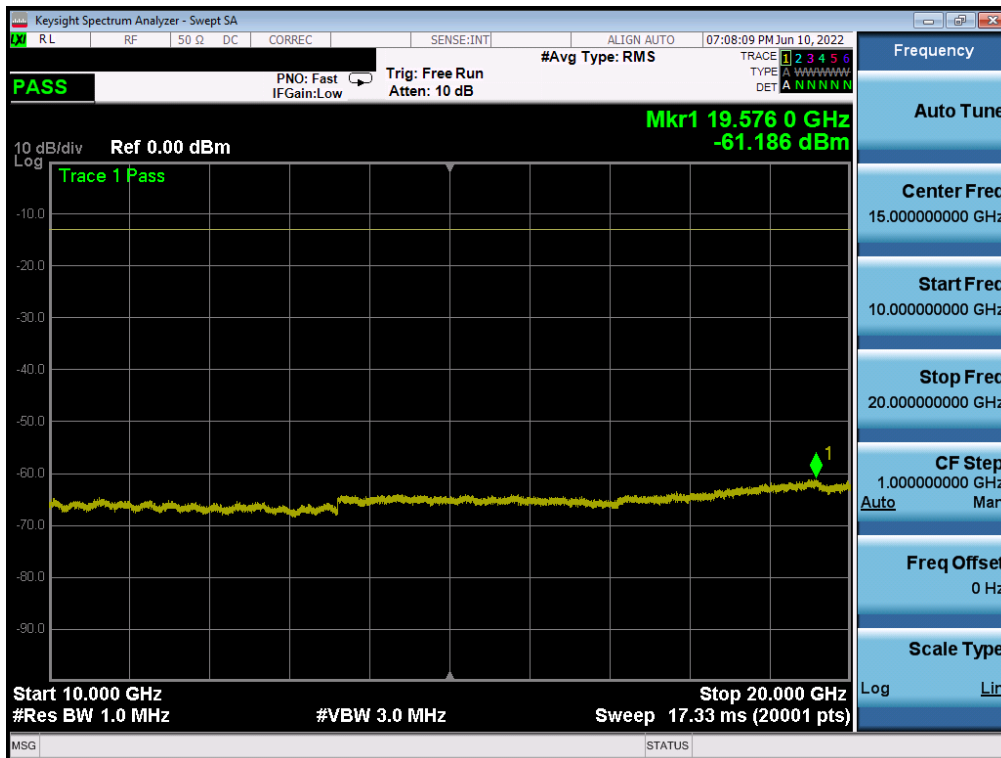


Plot 7-112. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 81 of 198

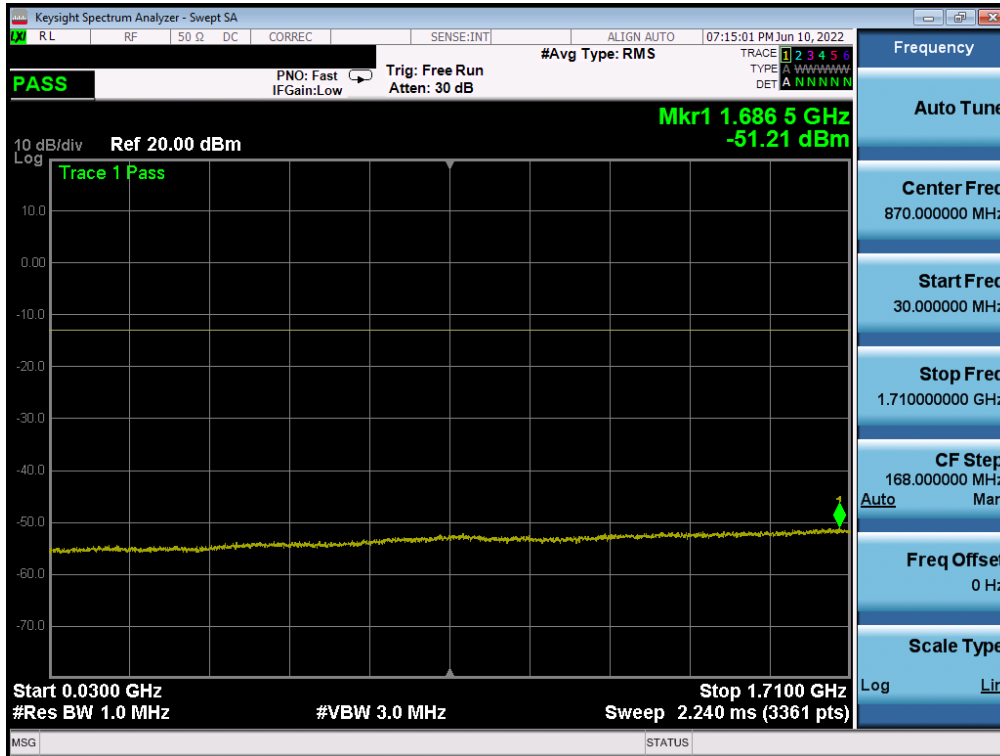


Plot 7-113. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - Mid Channel)

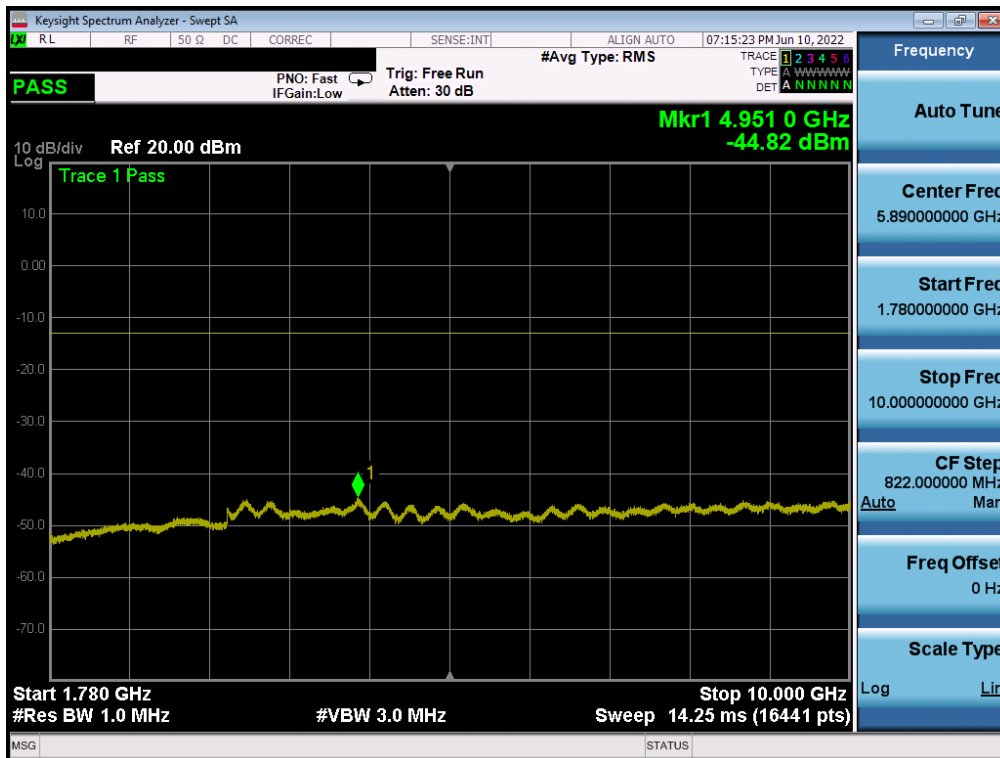


Plot 7-114. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 82 of 198



Plot 7-115. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - High Channel)



Plot 7-116. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - High Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 83 of 198