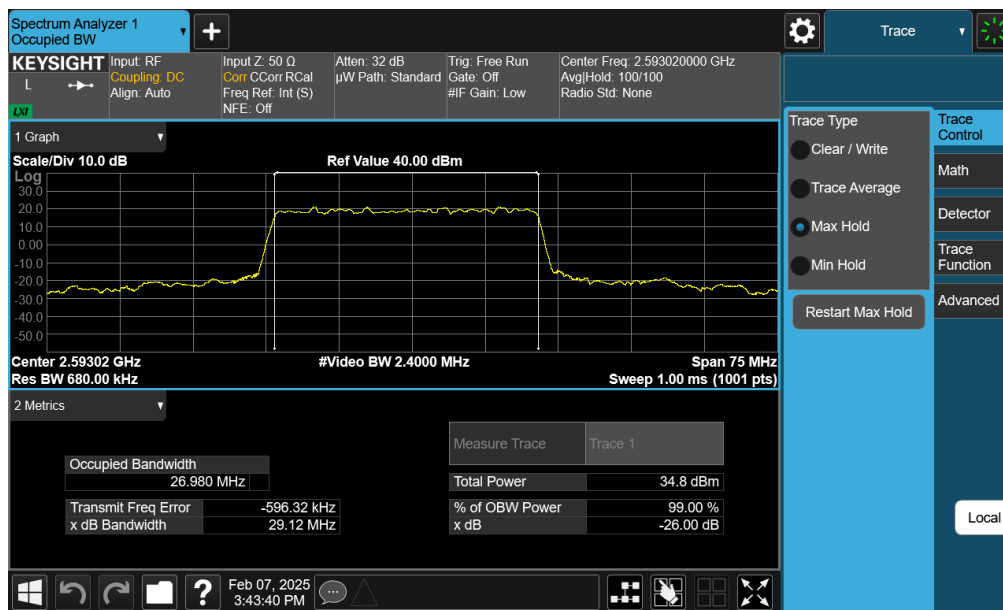
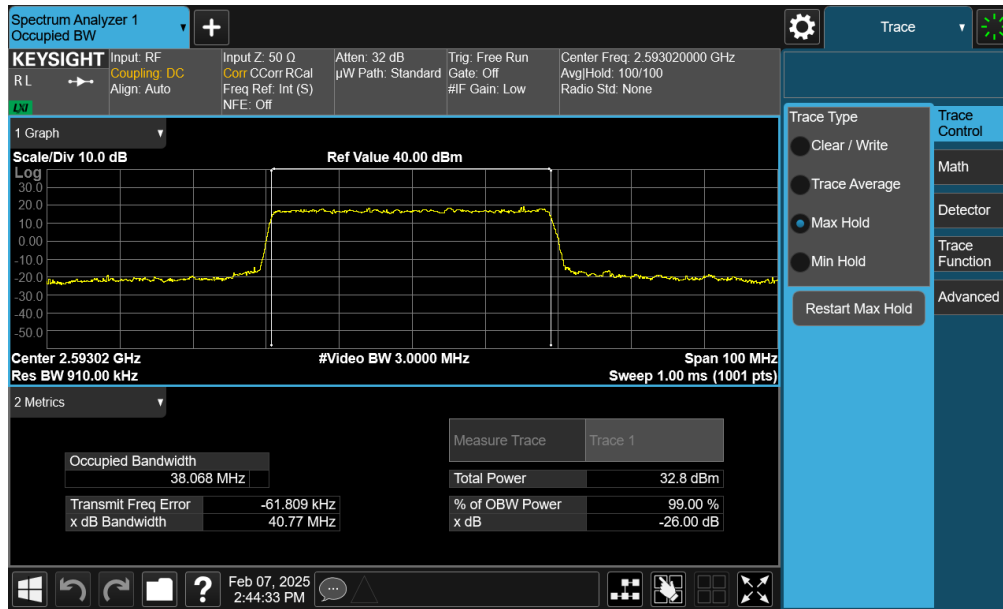
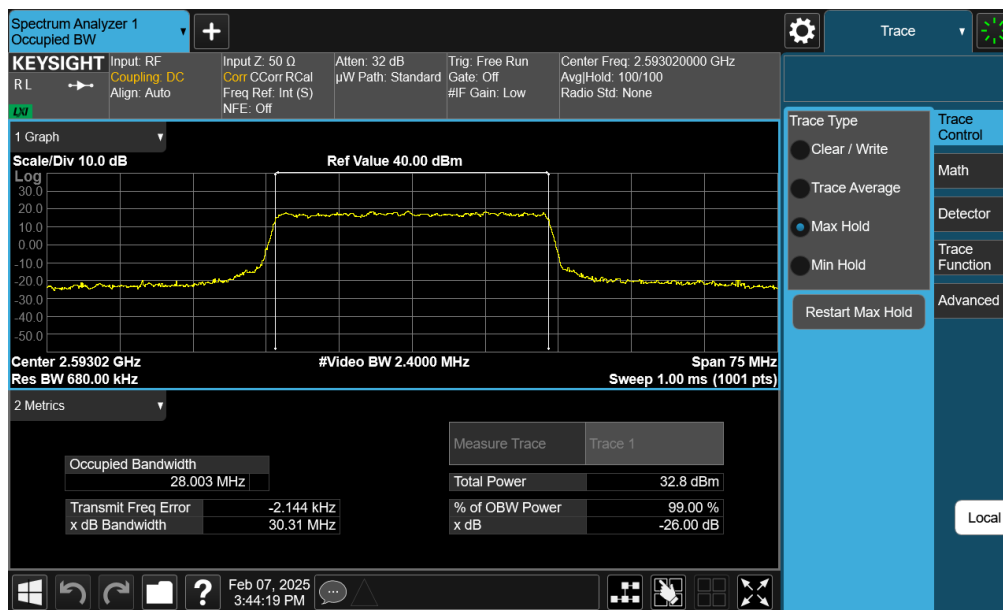
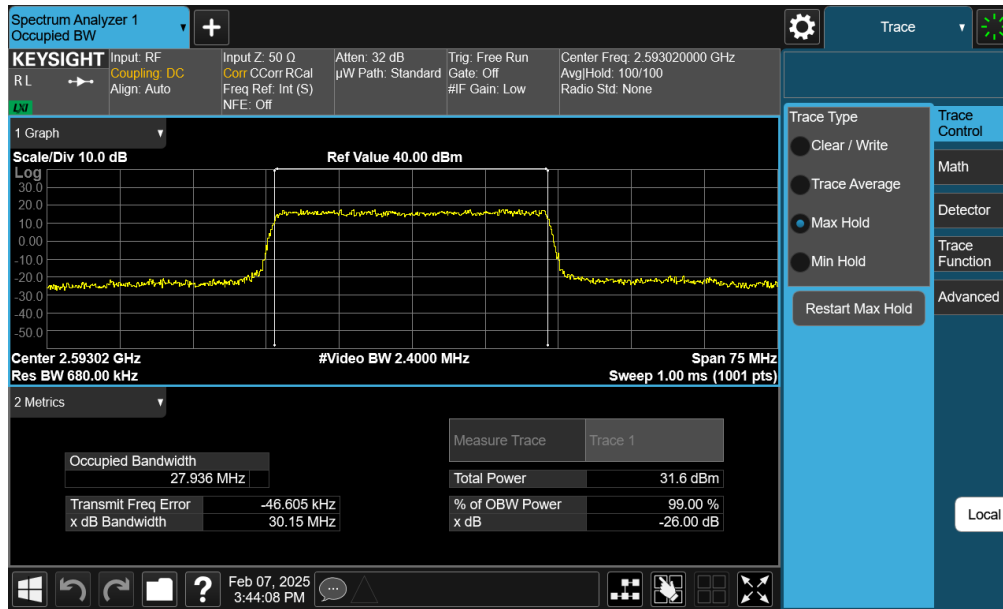
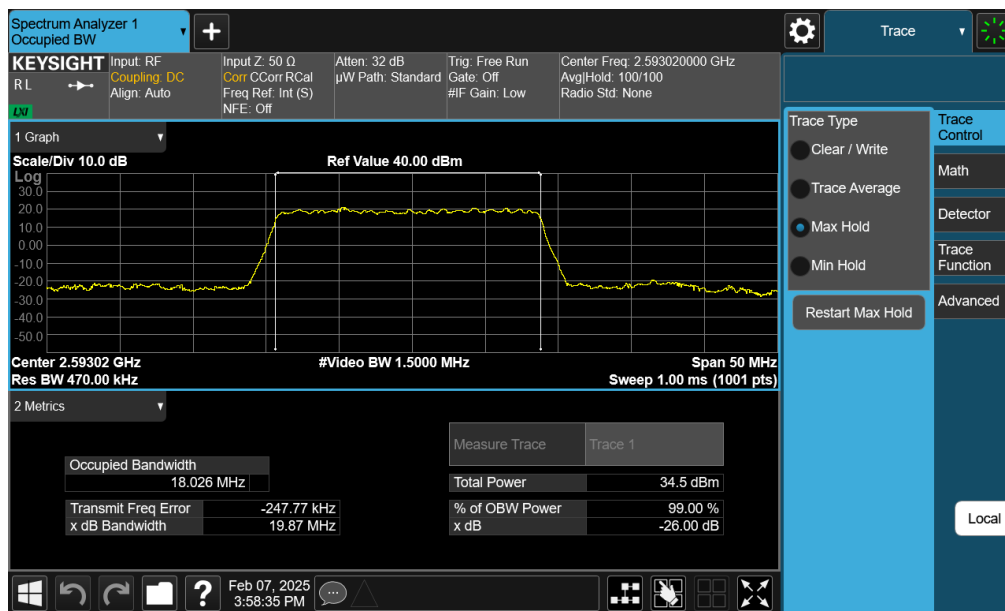




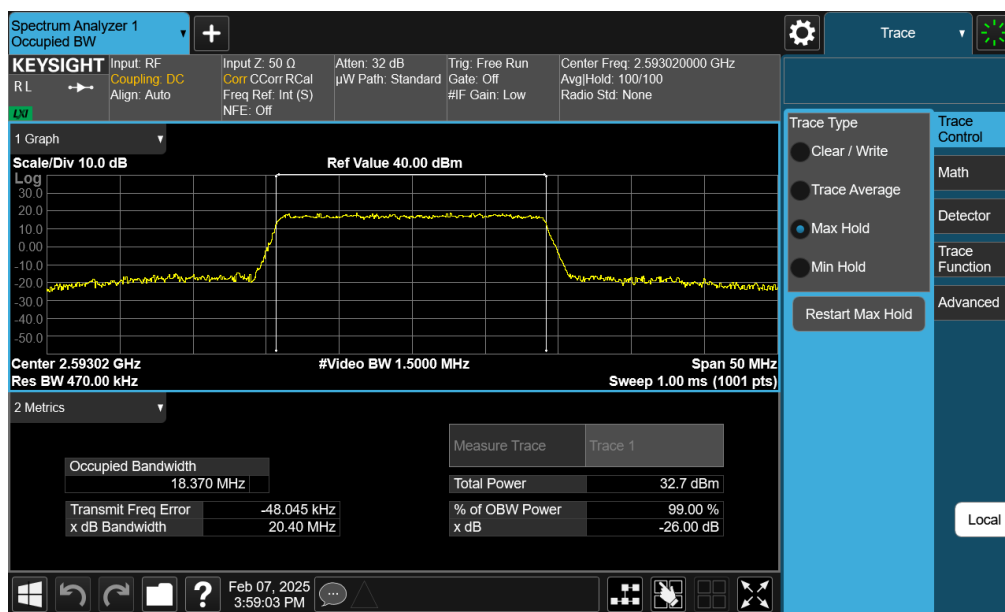
FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 44 of 138



FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 45 of 138

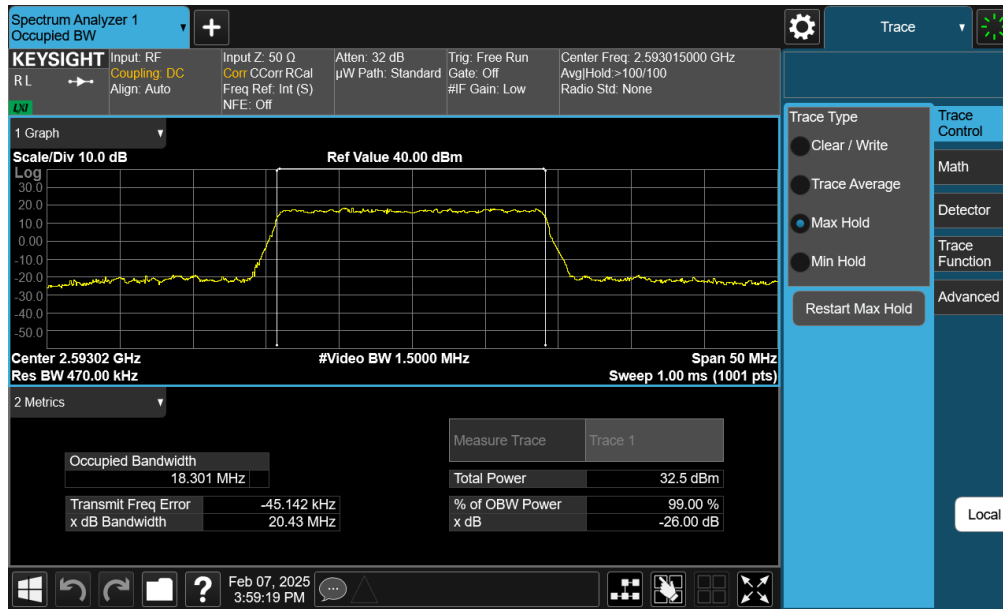


Plot 7-57. Occupied Bandwidth Plot (NR Band n41 - 20MHz $\pi/2$ BPSK - Full RB - Ant 2)

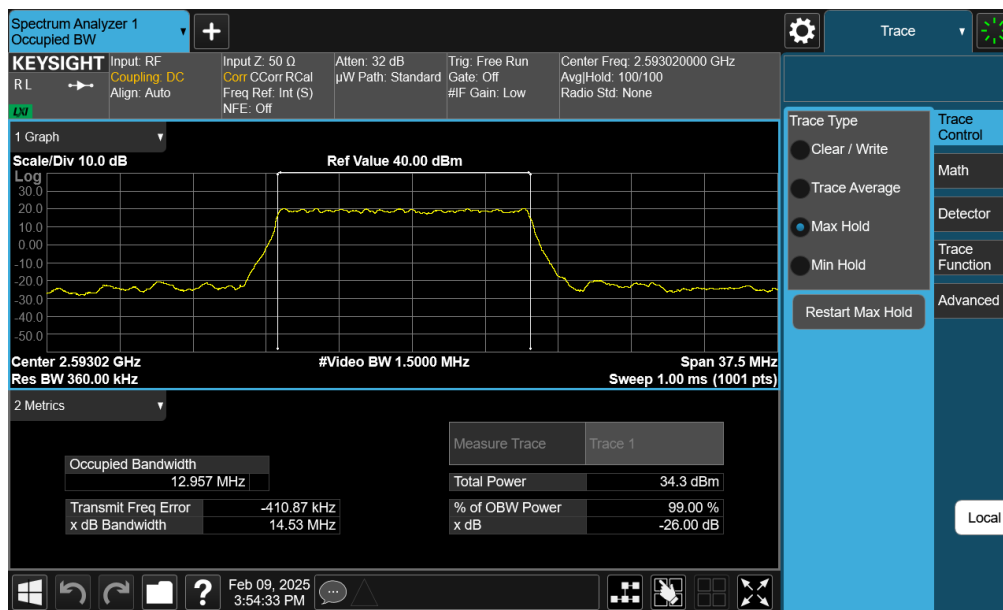


Plot 7-58. Occupied Bandwidth Plot (NR Band n41 - 20MHz QPSK - Full RB - Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 46 of 138

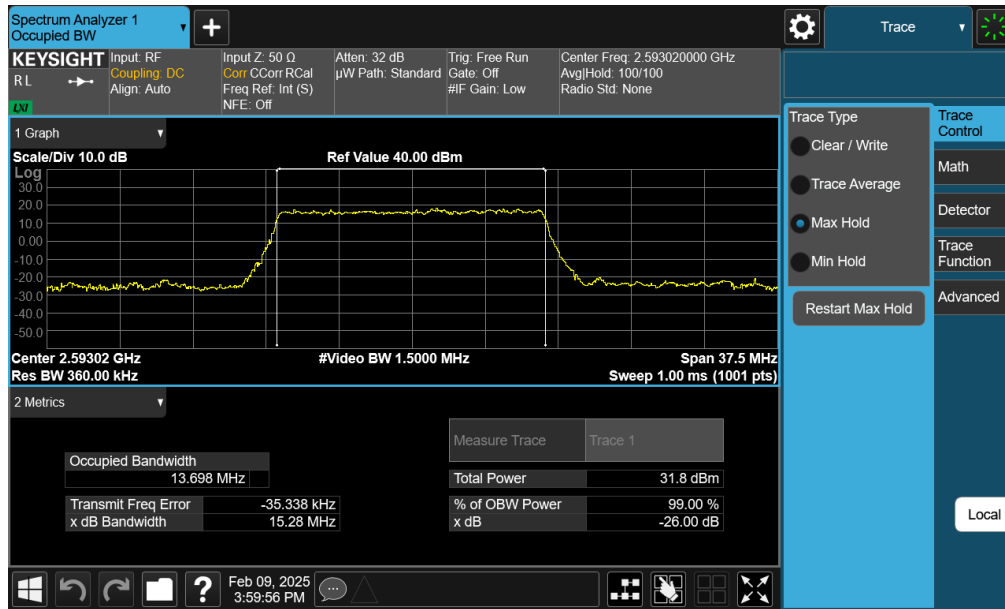


Plot 7-59. Occupied Bandwidth Plot (NR Band n41 - 20MHz 16-QAM - Full RB - Ant 2)

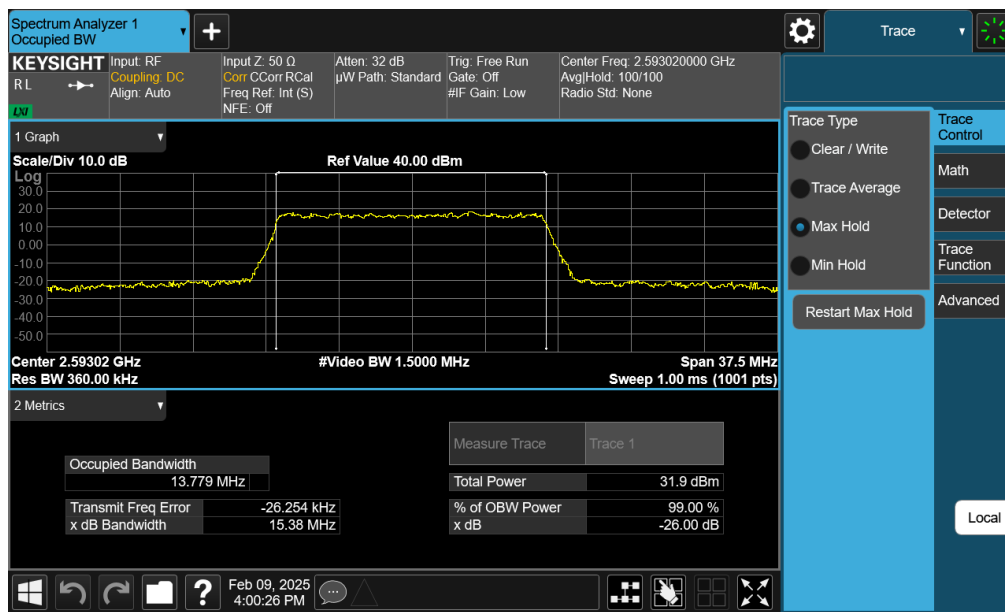


Plot 7-60. Occupied Bandwidth Plot (NR Band n41 - 15MHz $\pi/2$ BPSK - Full RB - Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 47 of 138

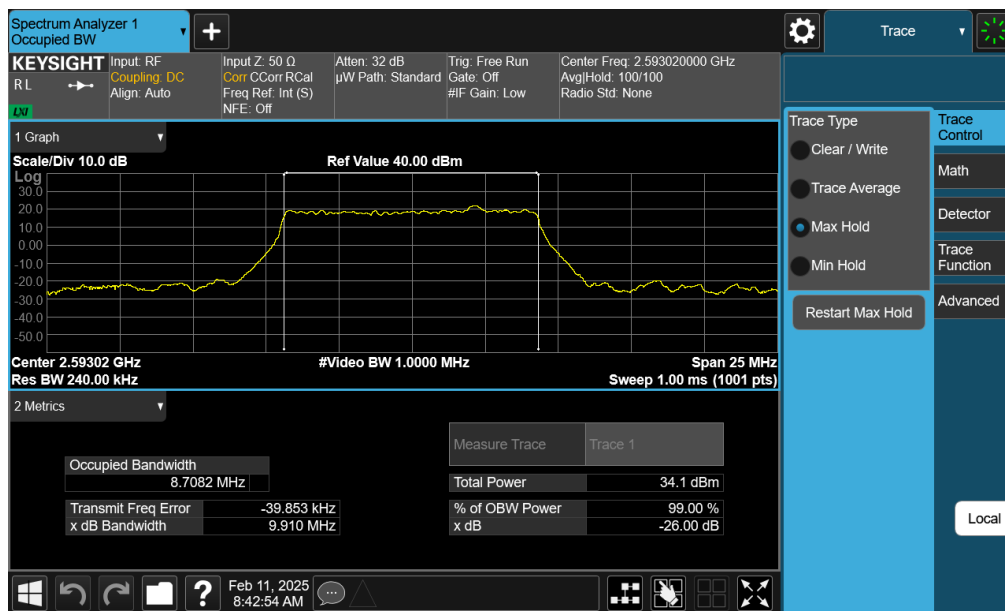


Plot 7-61. Occupied Bandwidth Plot (NR Band n41 - 15MHz QPSK - Full RB - Ant 2)

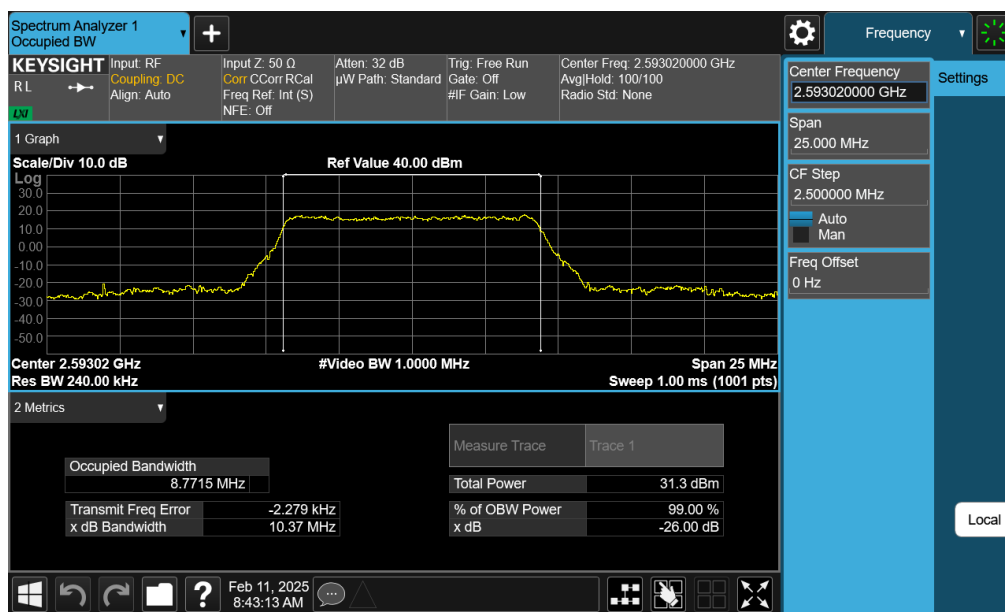


Plot 7-62. Occupied Bandwidth Plot (NR Band n41 - 15MHz 16-QAM - Full RB - Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 48 of 138

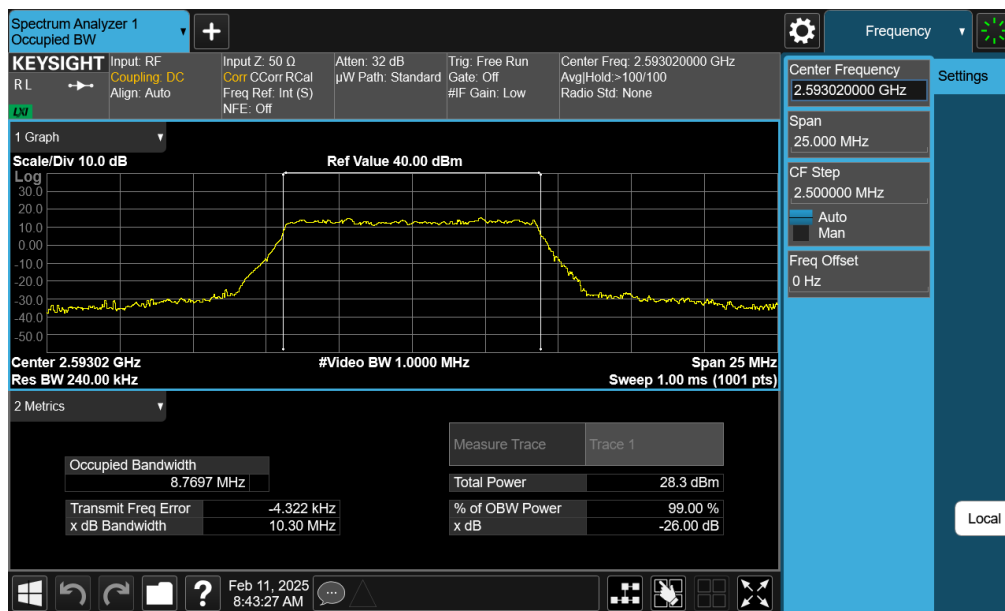


Plot 7-63. Occupied Bandwidth Plot (NR Band n41 - 10MHz $\pi/2$ BPSK - Full RB - Ant 2)



Plot 7-64. Occupied Bandwidth Plot (NR Band n41 - 10MHz QPSK - Full RB - Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 49 of 138



Plot 7-65. Occupied Bandwidth Plot (NR Band n41 - 10MHz 16-QAM - Full RB - Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 50 of 138

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B30	10MHz	QPSK	9.05
		16QAM	9.05
	5MHz	QPSK	4.55
		16QAM	4.54
LTE-B7	20MHz	QPSK	18.04
		16QAM	18.03
	15MHz	QPSK	13.58
		16QAM	13.51
	10MHz	QPSK	9.05
		16QAM	9.06
	5MHz	QPSK	4.55
		16QAM	4.55
LTE-B41/38 PC3	20MHz	QPSK	18.04
		16QAM	18.04
	15MHz	QPSK	13.56
		16QAM	13.53
	10MHz	QPSK	9.04
		16QAM	9.05
	5MHz	QPSK	4.54
		16QAM	4.53

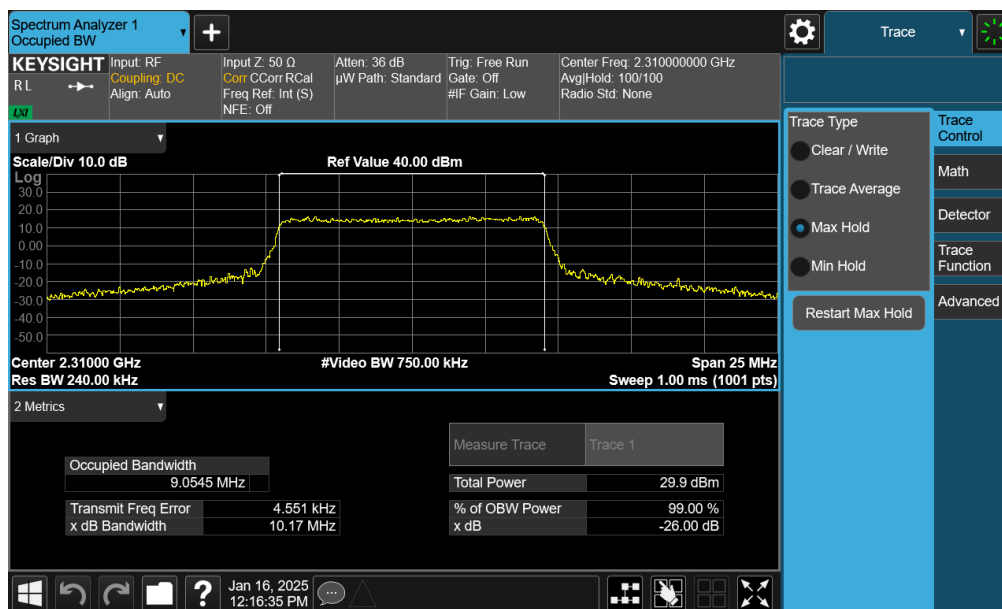
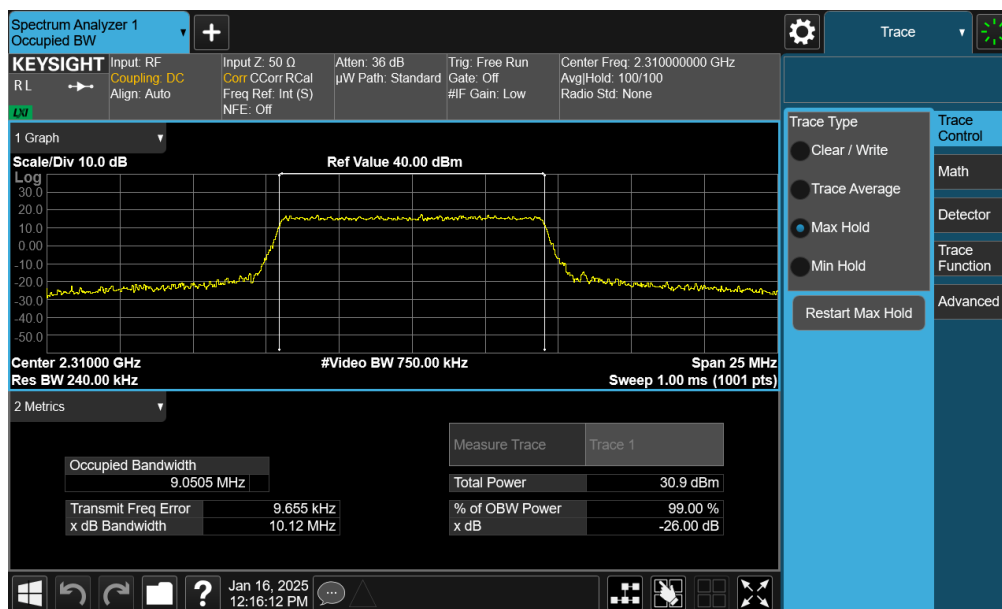
Table 7-4. Occupied Bandwidth Test Results – LTE – Ant 4

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n30	10MHz	$\pi/2$ BPSK	9.00
		QPSK	9.33
		16QAM	9.38
	5MHz	$\pi/2$ BPSK	4.54
		QPSK	4.51
		16QAM	4.54

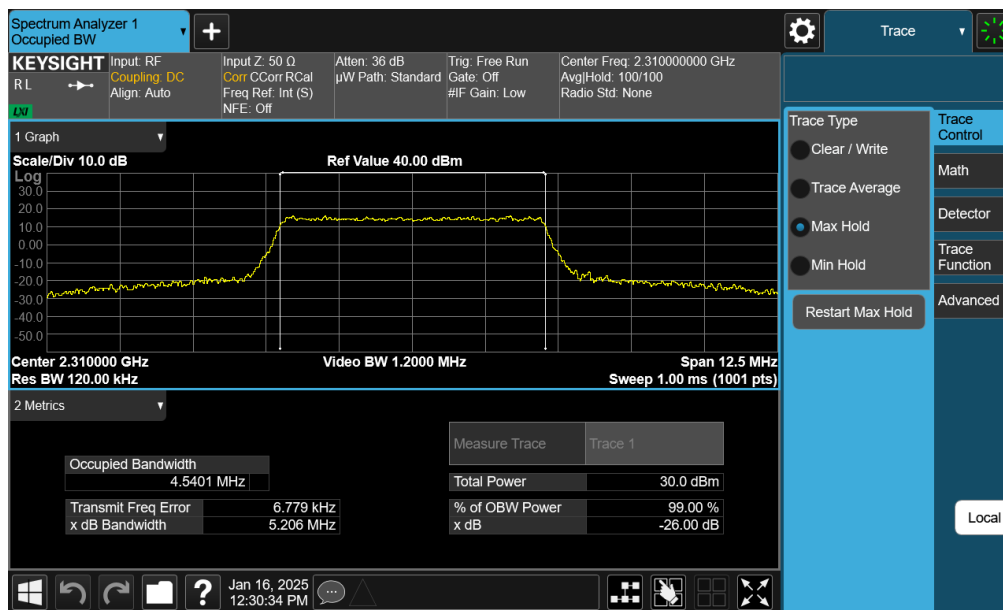
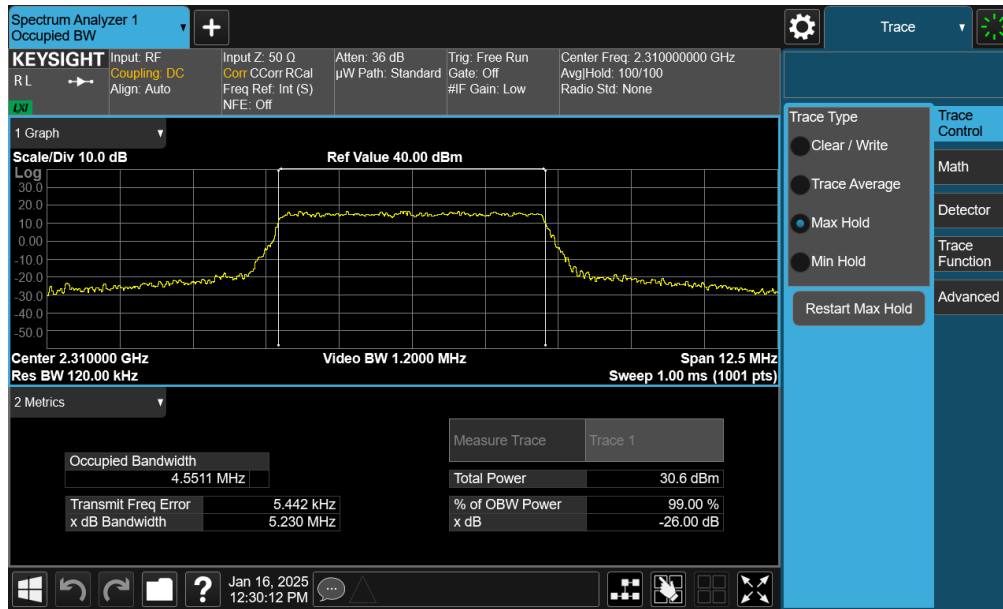
Table 7-5. Occupied Bandwidth Test Results – NR – Ant 4

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 51 of 138

LTE Band 30 – Ant 4

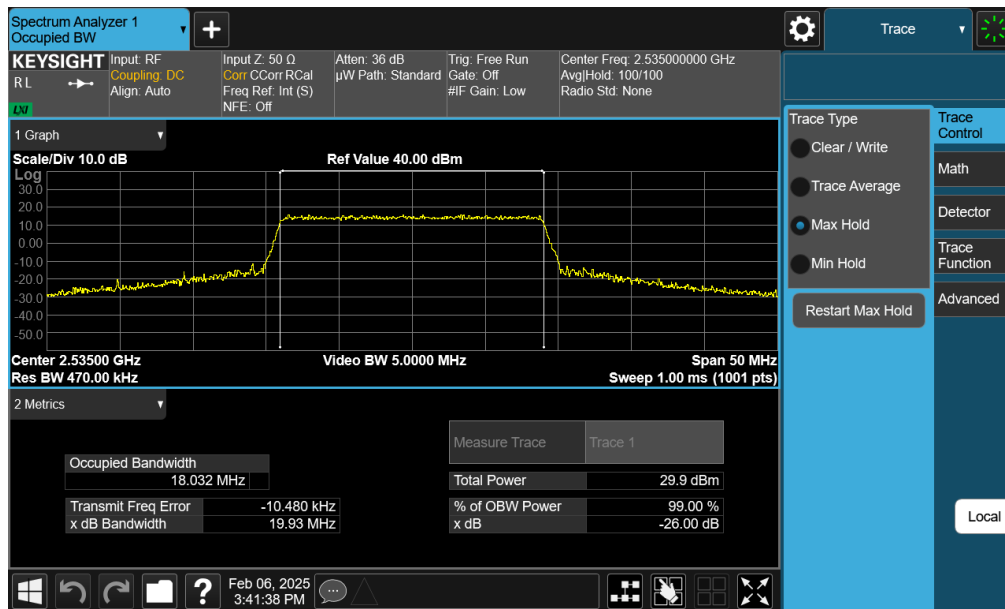
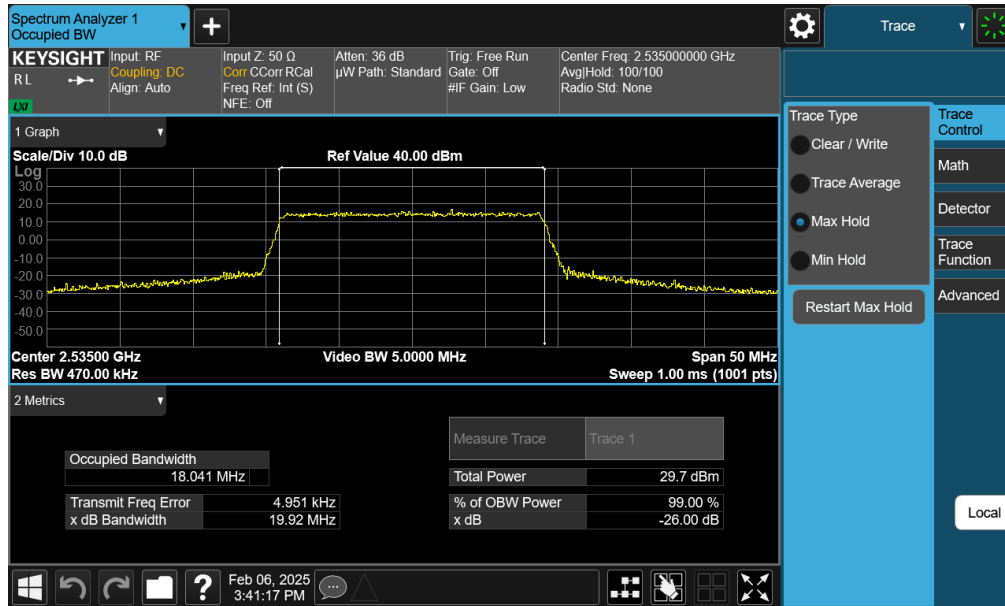


FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 52 of 138

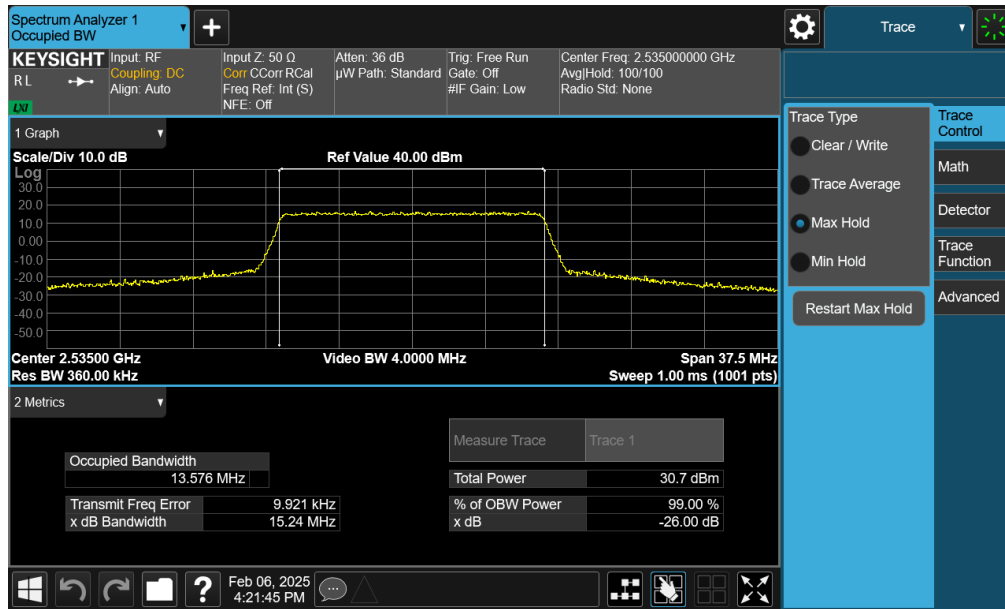


FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 53 of 138

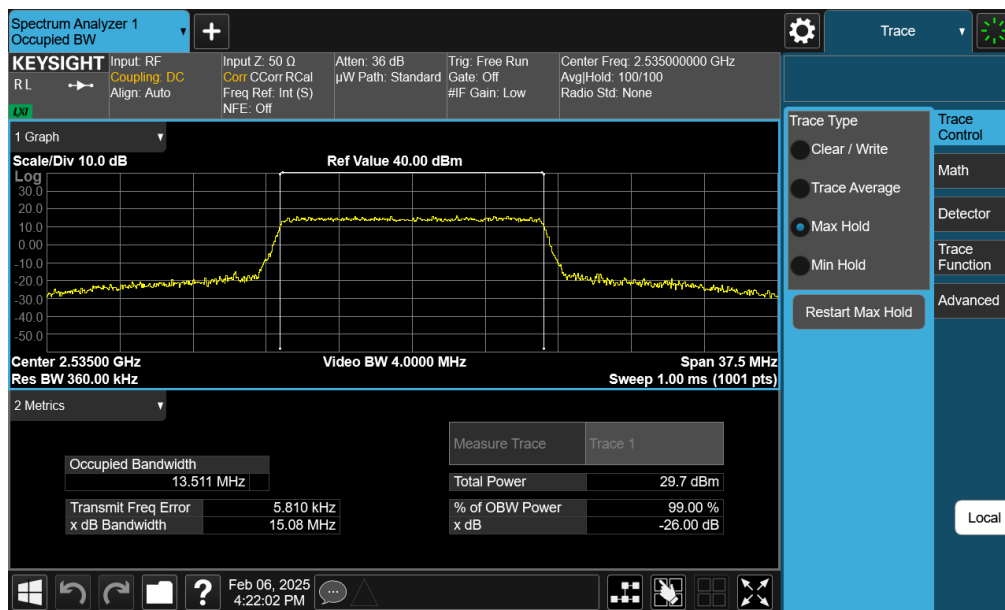
LTE Band 7 – Ant 4



FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 54 of 138

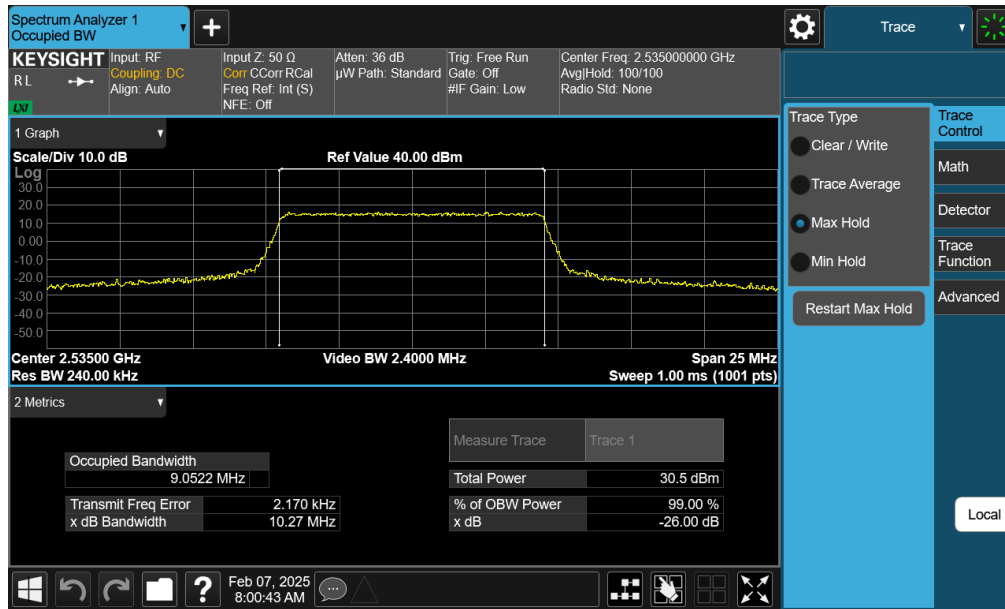


Plot 7-72. Occupied Bandwidth Plot (LTE Band 7 - 15MHz QPSK - Full RB - Ant 4)

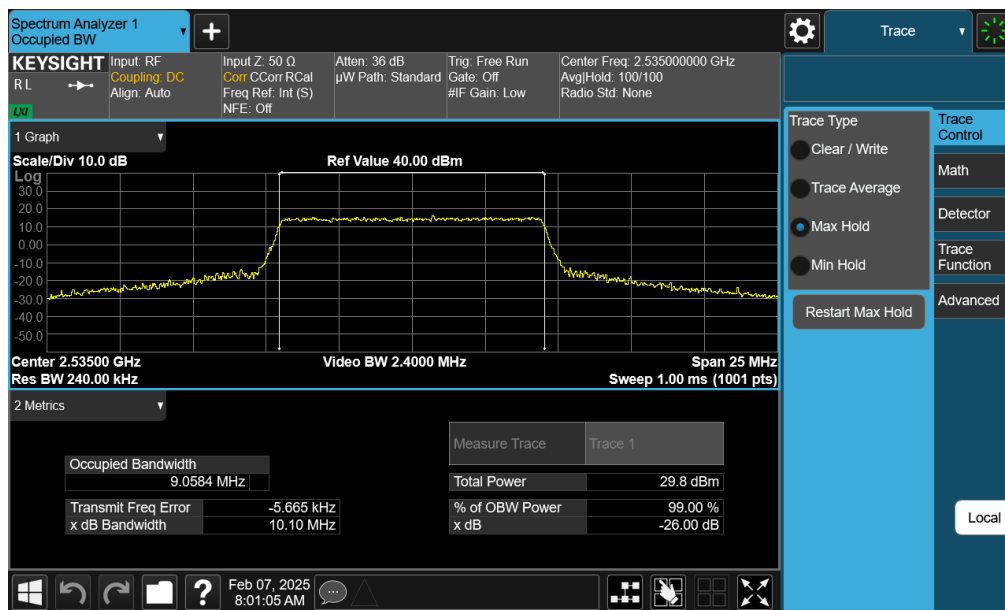


Plot 7-73. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 16-QAM - Full RB - Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 55 of 138

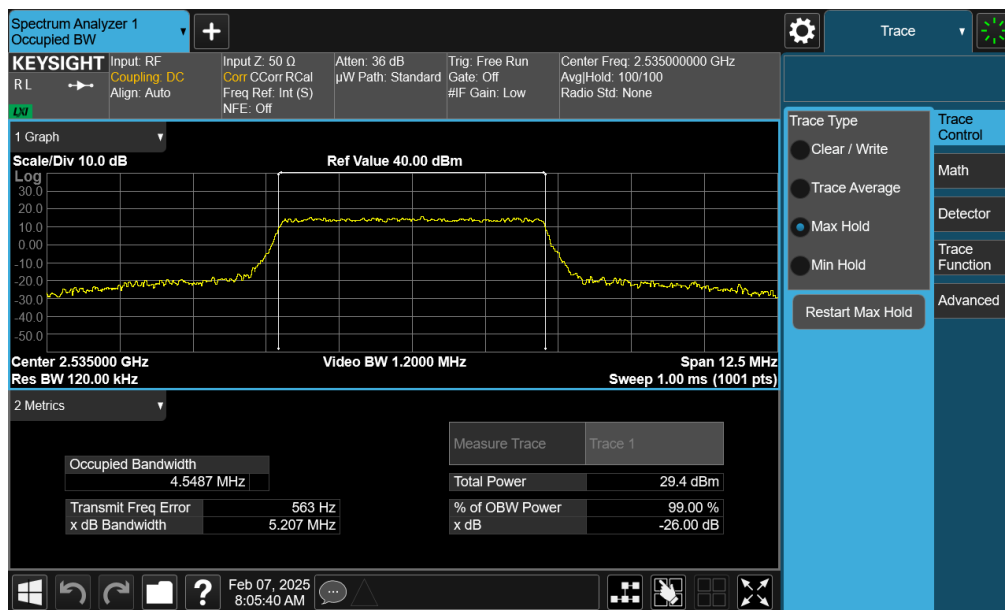
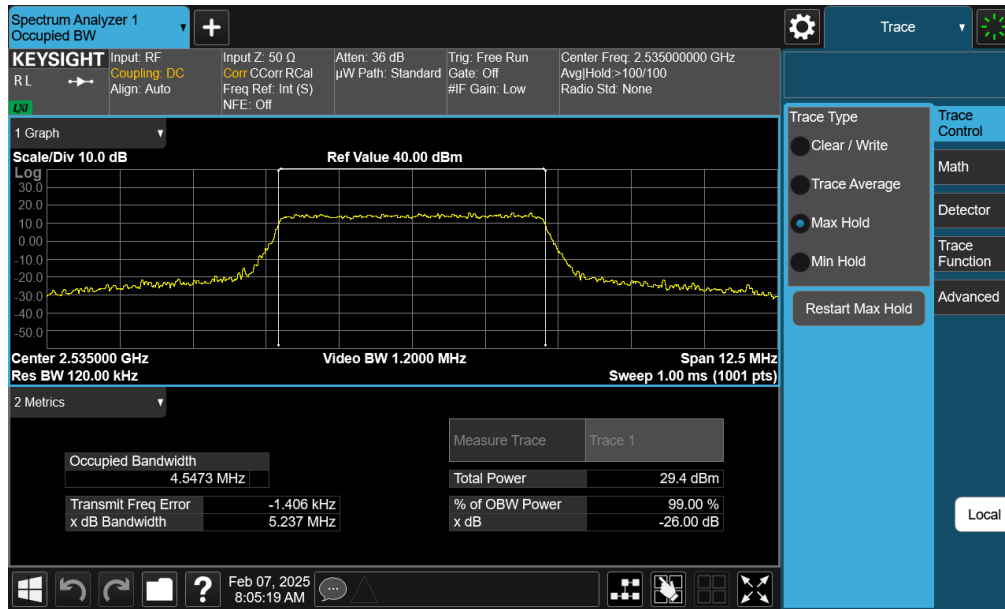


Plot 7-74. Occupied Bandwidth Plot (LTE Band 7 - 10MHz QPSK - Full RB - Ant 4)



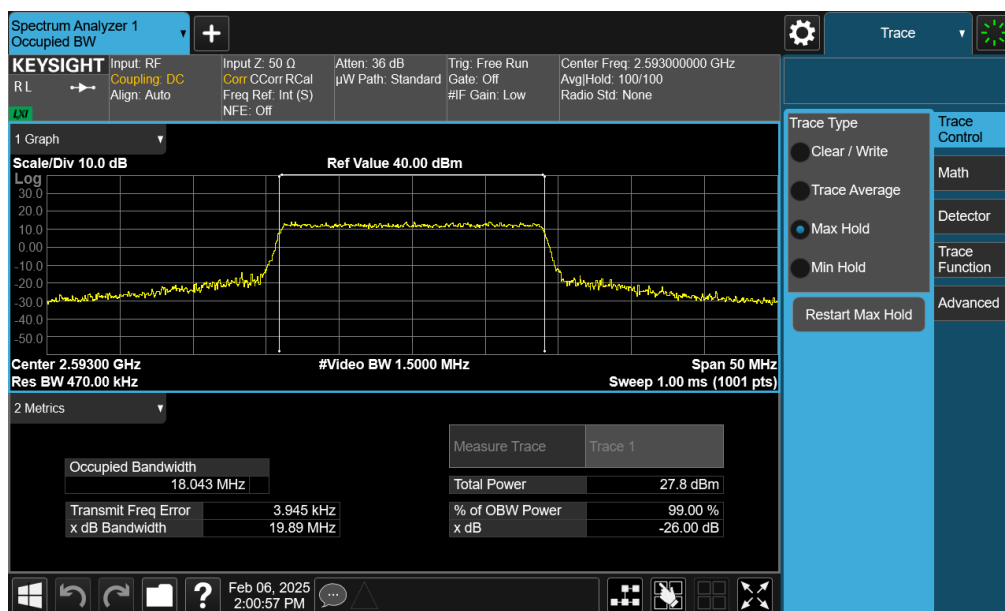
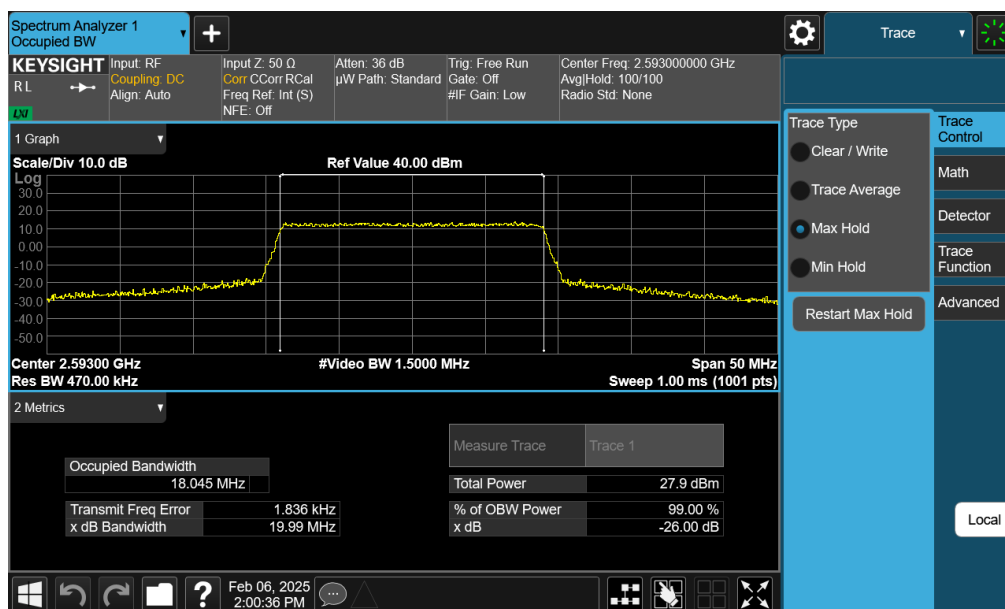
Plot 7-75. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 16-QAM - Full RB - Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 56 of 138

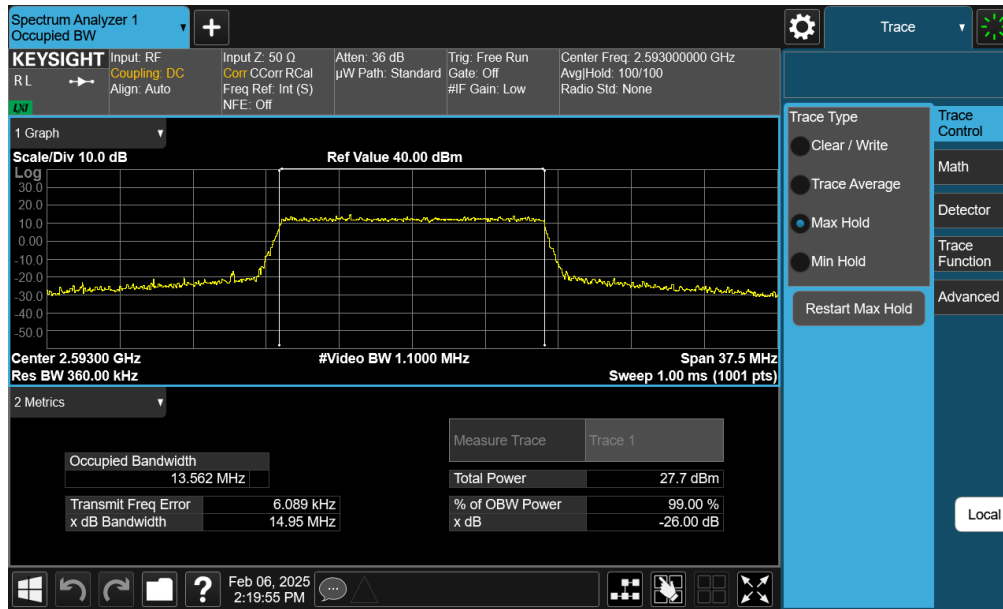


FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 57 of 138

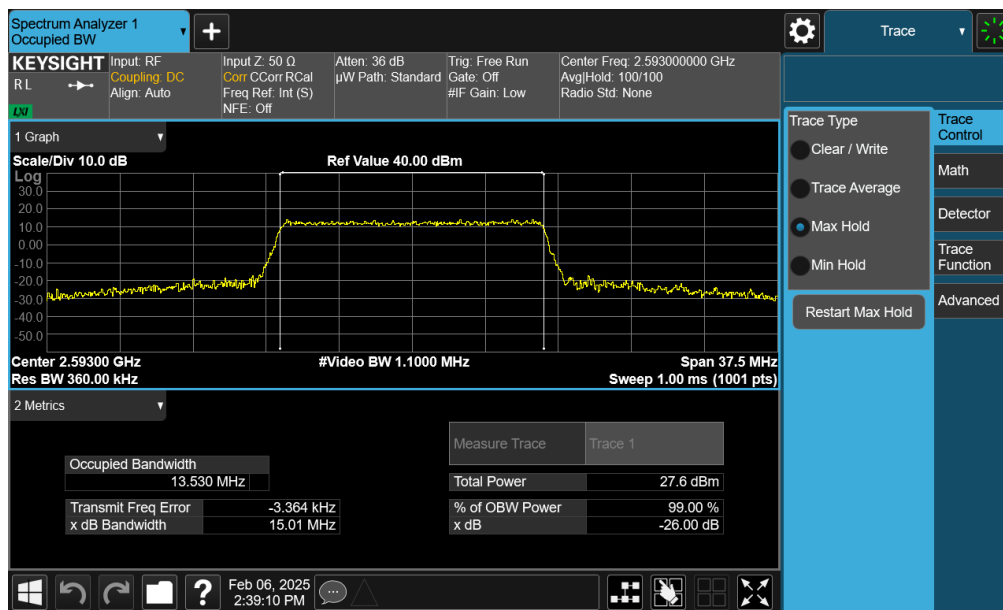
LTE Band 41(PC3)/38 – Ant 4



FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 58 of 138

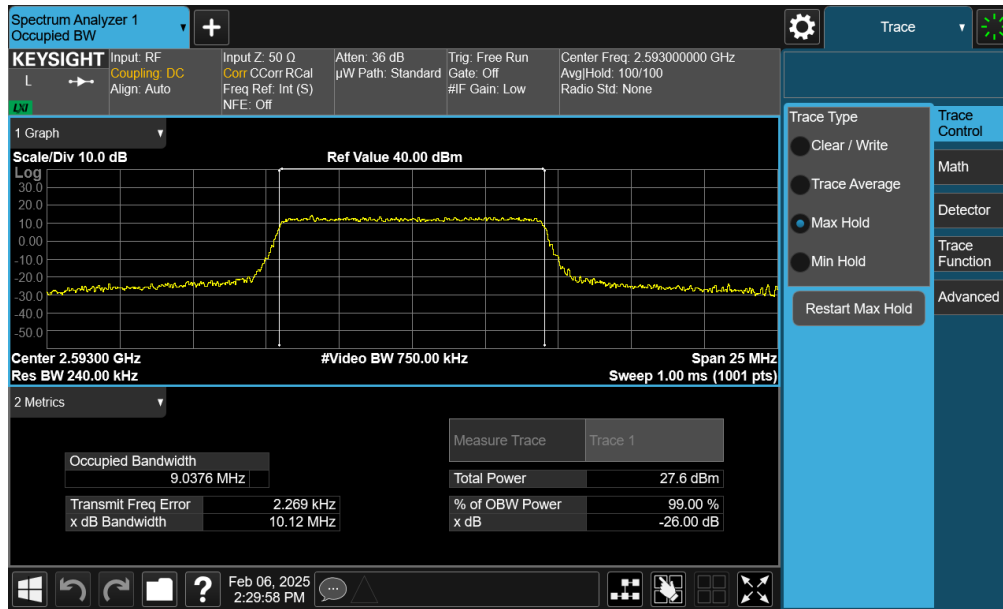


Plot 7-80. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 15MHz QPSK - Full RB - Ant 4)

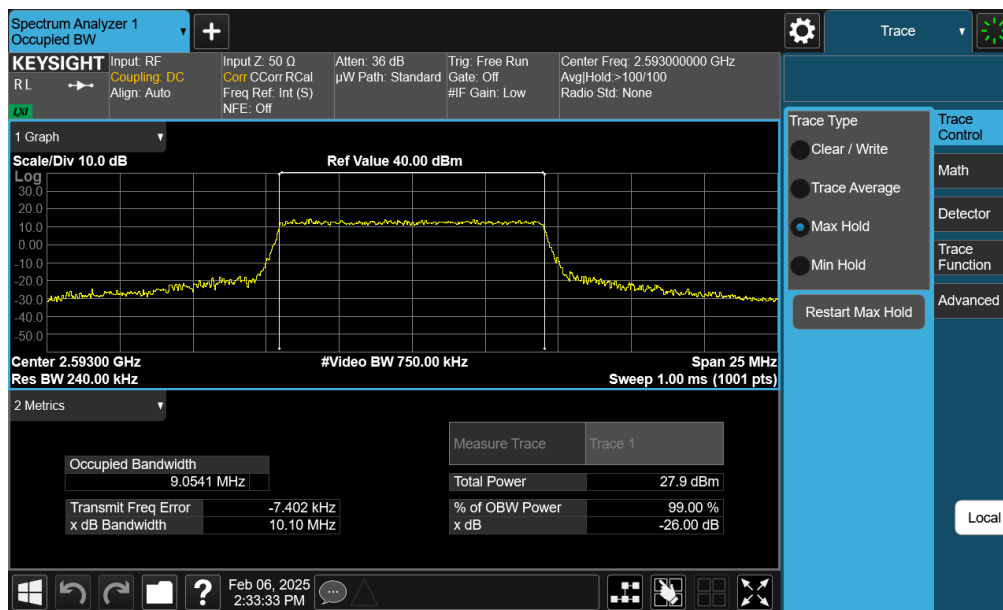


Plot 7-81. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 15MHz 16-QAM - Full RB - Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 59 of 138

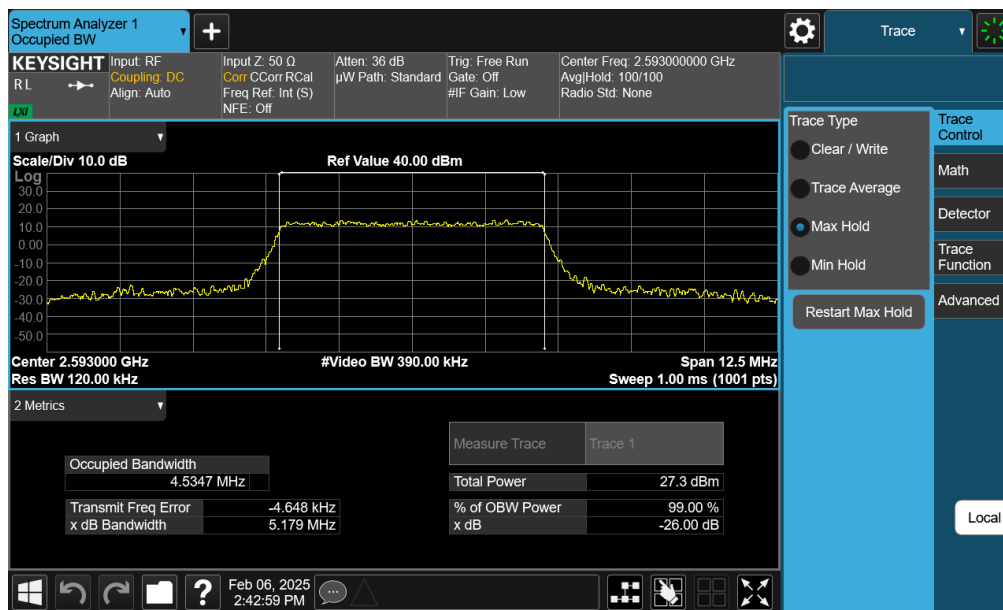
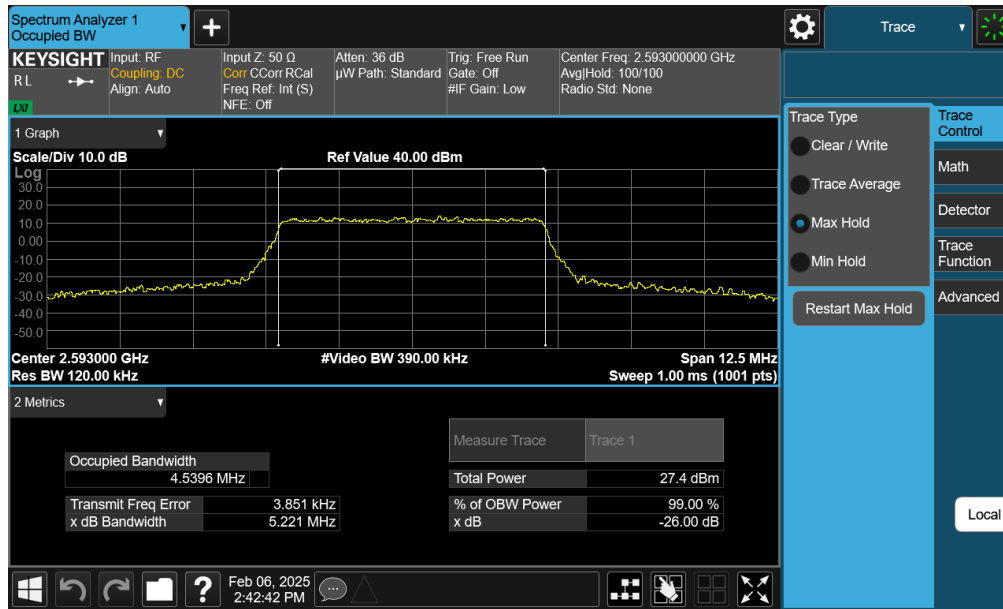


Plot 7-82. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 10MHz QPSK - Full RB - Ant 4)



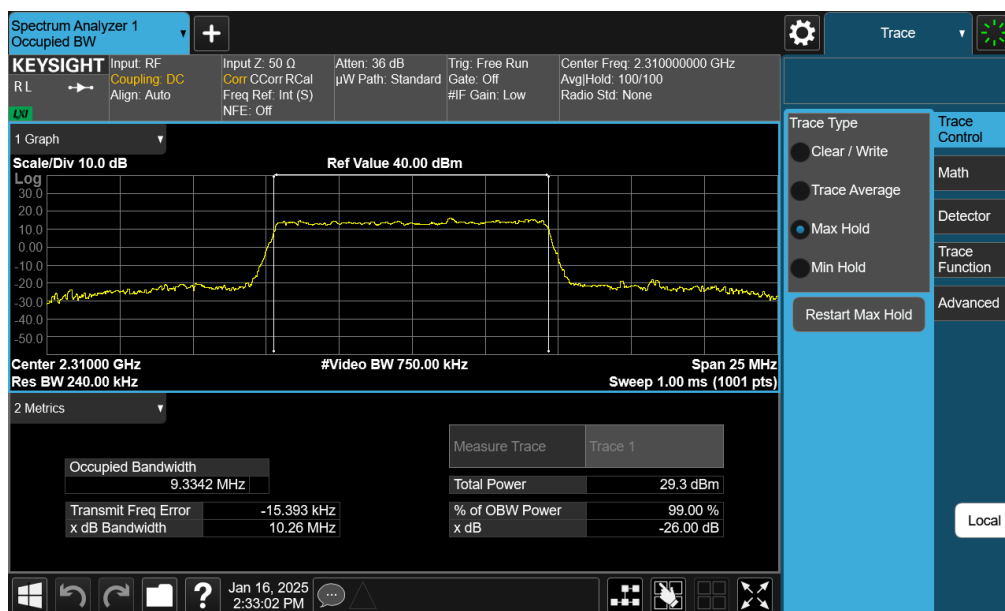
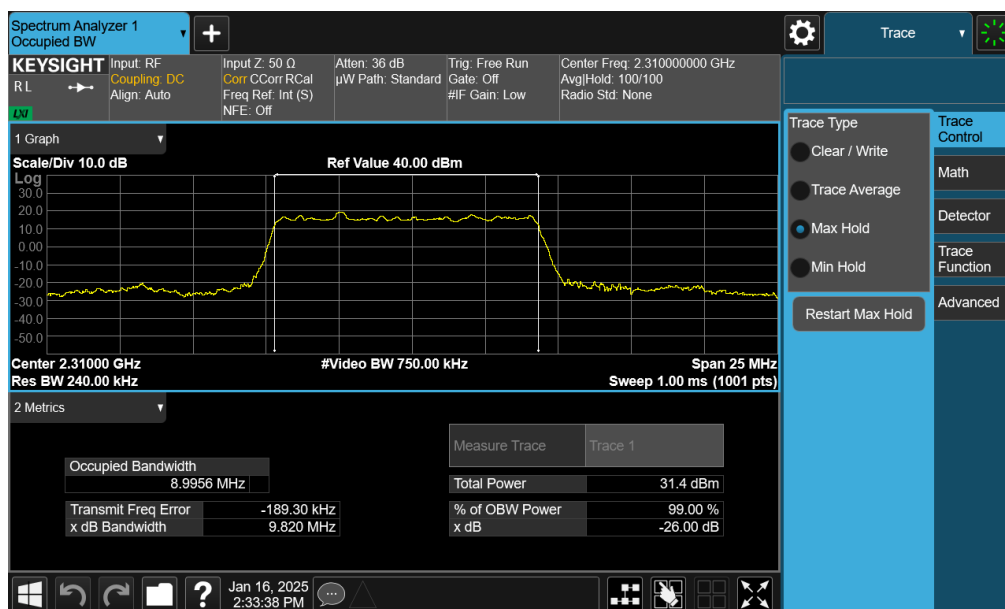
Plot 7-83. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 10MHz 16-QAM - Full RB - Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 60 of 138

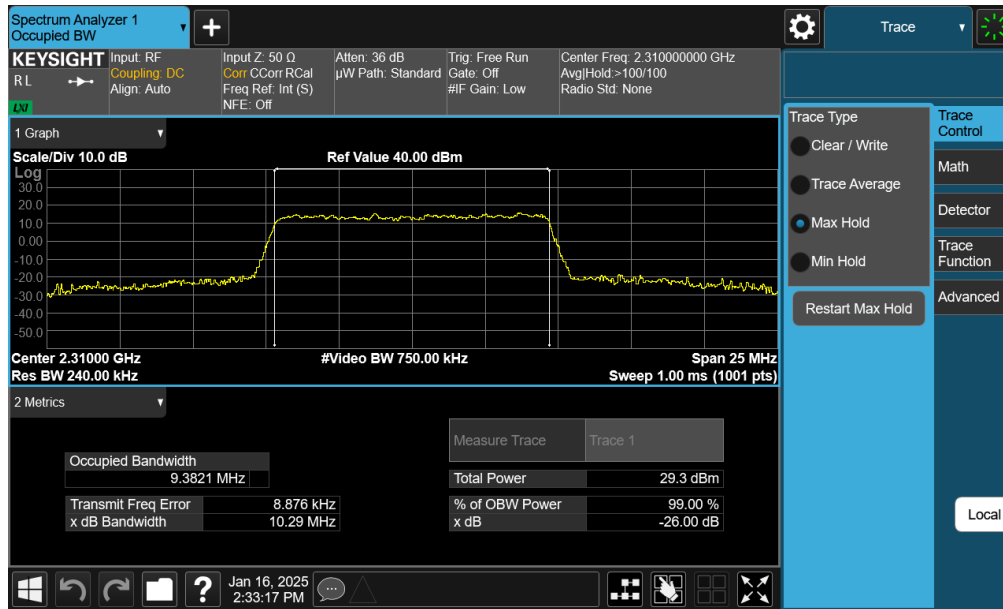


FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 61 of 138

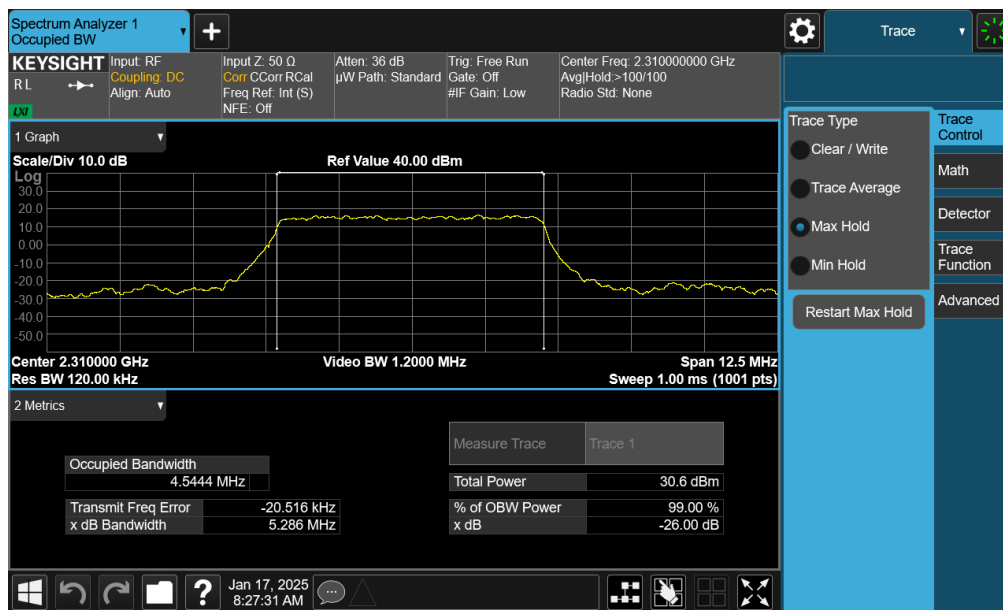
NR Band n30 – Ant 4



FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 62 of 138

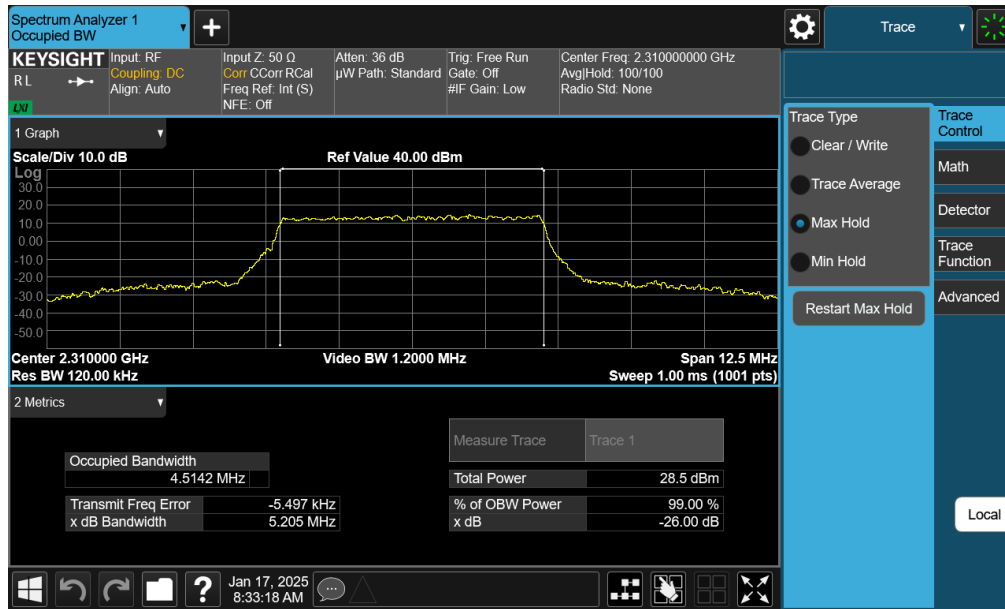


Plot 7-88. Occupied Bandwidth Plot (NR Band n30 - 10MHz 16-QAM - Full RB - Ant 4)

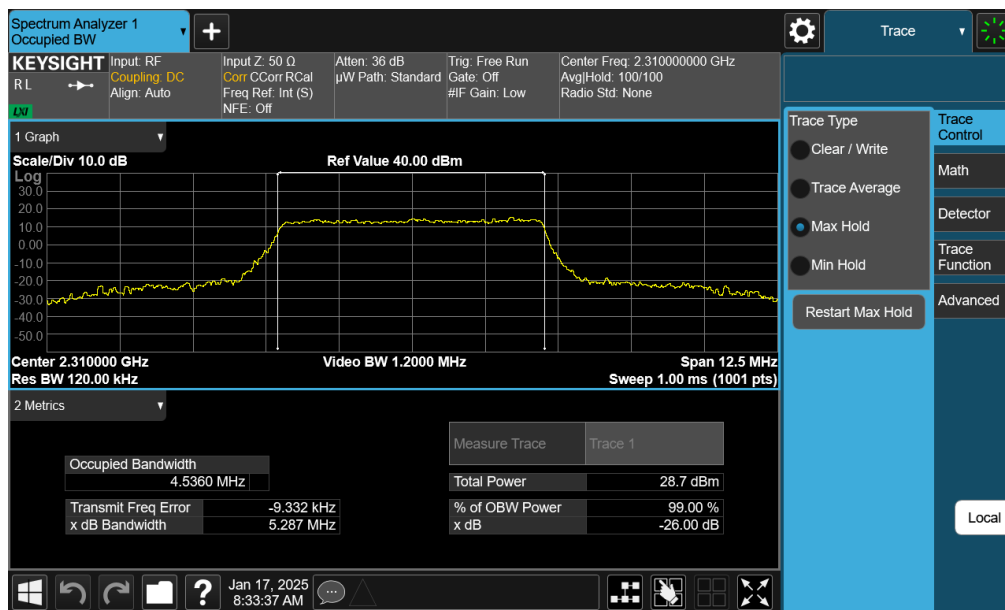


Plot 7-89. Occupied Bandwidth Plot (NR Band n30 - 5MHz $\pi/2$ BPSK - Full RB - Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 63 of 138



Plot 7-90. Occupied Bandwidth Plot (NR Band n30 - 5MHz QPSK - Full RB - Ant 4)



Plot 7-91. Occupied Bandwidth Plot (NR Band n30 - 5MHz 16-QAM - Full RB - Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 64 of 138

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 $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

For Band 30, the minimum permissible attenuation level of any spurious emission <2288MHz and >2365MHz is $70 + 10 \log_{10}(P_{[Watts]})$.

For Band 7 and 41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{[Watts]})$.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

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

Test Setup

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

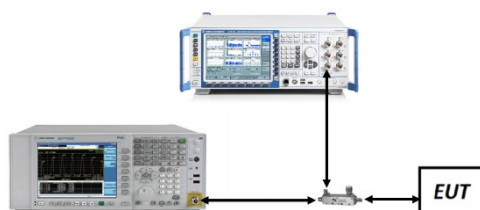


Figure 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 65 of 138

Test Notes

1. Per Part 27, RSS-195 and RSS-199, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
3. Per ANSI C63.26-2015, MIMO compliance was addressed by adding $10\log(2) = 3\text{dB}$ to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

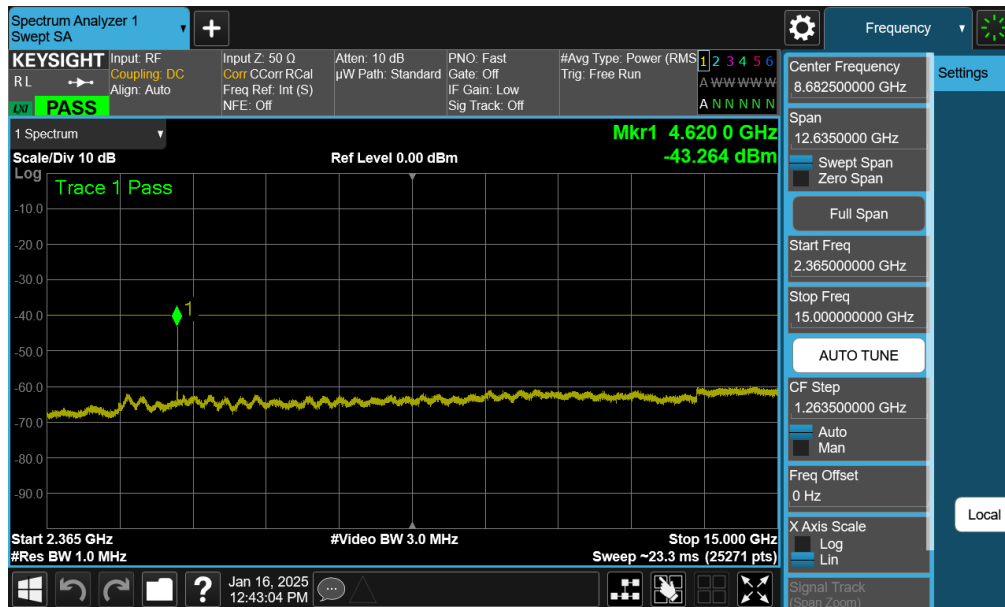
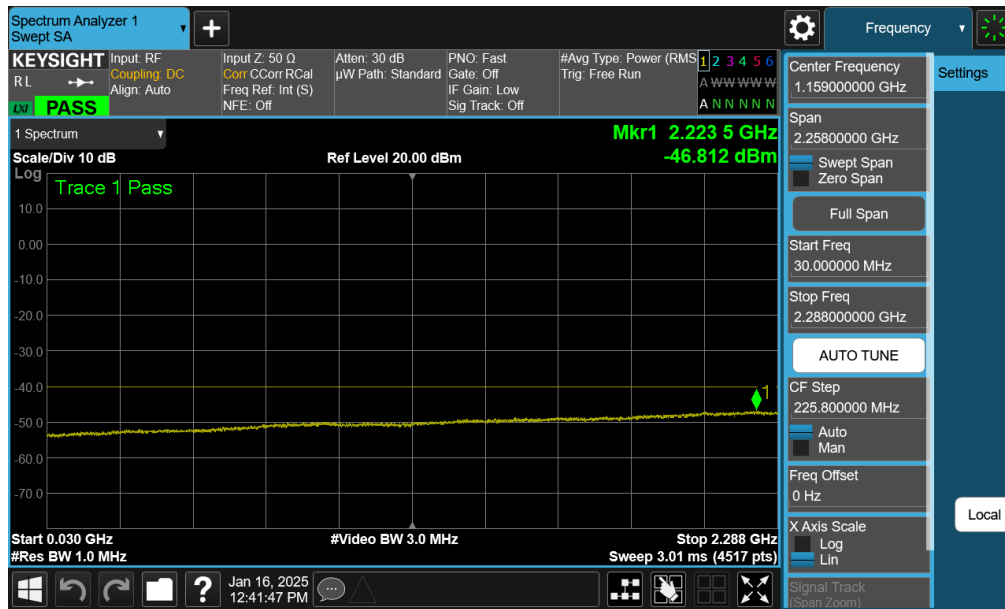
FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 66 of 138

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B30	10MHz	Mid	30.0 - 2288.0	-46.81	-40	-6.81
		Mid	2365.0 - 15000.0	-43.26	-40	-3.26
		Mid	15000.0 - 27000.0	-63.29	-40	-23.29
LTE-B7	20MHz	Low	30.0 - 2475.0	-46.03	-25	-21.03
		Low	2570.0 - 15000.0	-38.74	-25	-13.74
		Low	15000.0 - 27000.0	-63.03	-25	-38.03
		Mid	30.0 - 2500.0	-46.00	-25	-21.00
		Mid	2570.0 - 15000.0	-39.74	-25	-14.74
		Mid	15000.0 - 27000.0	-63.18	-25	-38.18
		High	30.0 - 2500.0	-45.83	-25	-20.83
		High	2570.0 - 15000.0	-38.89	-25	-13.89
		High	15000.0 - 27000.0	-63.12	-25	-38.12
LTE-B41/38 PC3	20MHz	Low	30.0 - 2288.0	-42.64	-25	-17.64
		Low	2365.0 - 15000.0	-36.65	-25	-11.65
		Low	15000.0 - 27000.0	-54.66	-25	-29.66
		Mid	30.0 - 2288.0	-42.91	-25	-17.91
		Mid	2570.0 - 15000.0	-36.76	-25	-11.75
		Mid	15000.0 - 27000.0	-54.90	-25	-29.90
		High	30.0 - 2288.0	-41.93	-25	-16.93
		High	2570.0 - 15000.0	-36.65	-25	-11.65
		High	15000.0 - 27000.0	-55.87	-25	-30.87
NR-n30	10MHz	Mid	30.0 - 2288.0	-46.93	-40	-6.92
		Mid	2365.0 - 15000.0	-43.53	-40	-3.53
		Mid	15000.0 - 27000.0	-63.50	-40	-23.50
NR-n41PC2	100MHz	Low	30.0 - 2470.0	-42.67	-25	-17.67
		Low	2690.0 - 15000.0	-37.01	-25	-12.01
		Low	15000.0 - 27000.0	-56.66	-25	-31.66
		Mid	30.0 - 2470.0	-42.97	-25	-17.97
		Mid	2690.0 - 15000.0	-36.93	-25	-11.93
		Mid	15000.0 - 27000.0	-56.77	-25	-31.77
		High	30.0 - 2470.0	-42.42	-25	-17.42
		High	2690.0 - 15000.0	-36.60	-25	-11.60
		High	15000.0 - 27000.0	-56.53	-25	-31.53

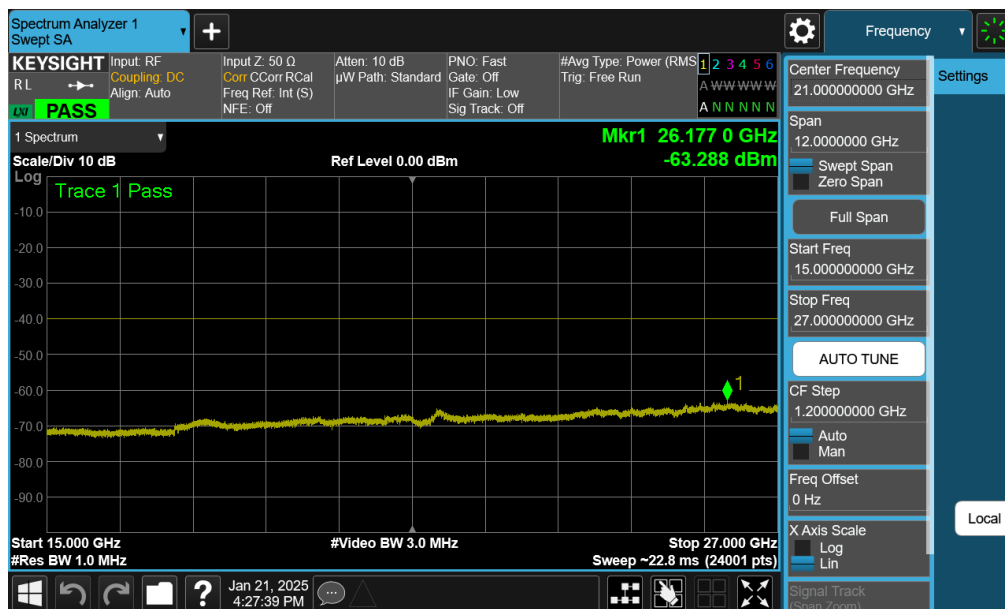
Table 7-6. Conducted Emission Test Results – Ant 2

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 67 of 138

LTE Band 30 – Ant 2

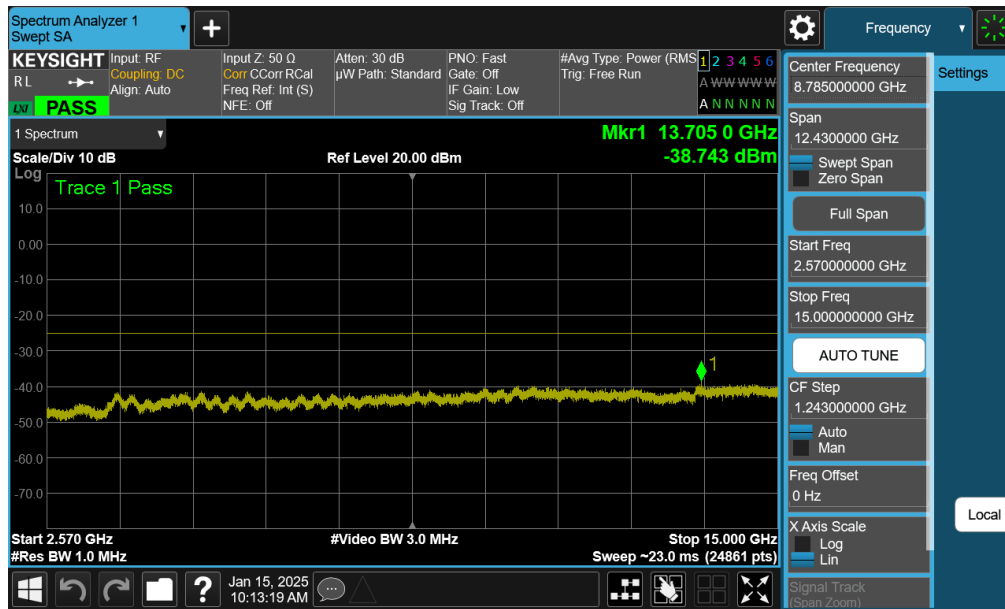
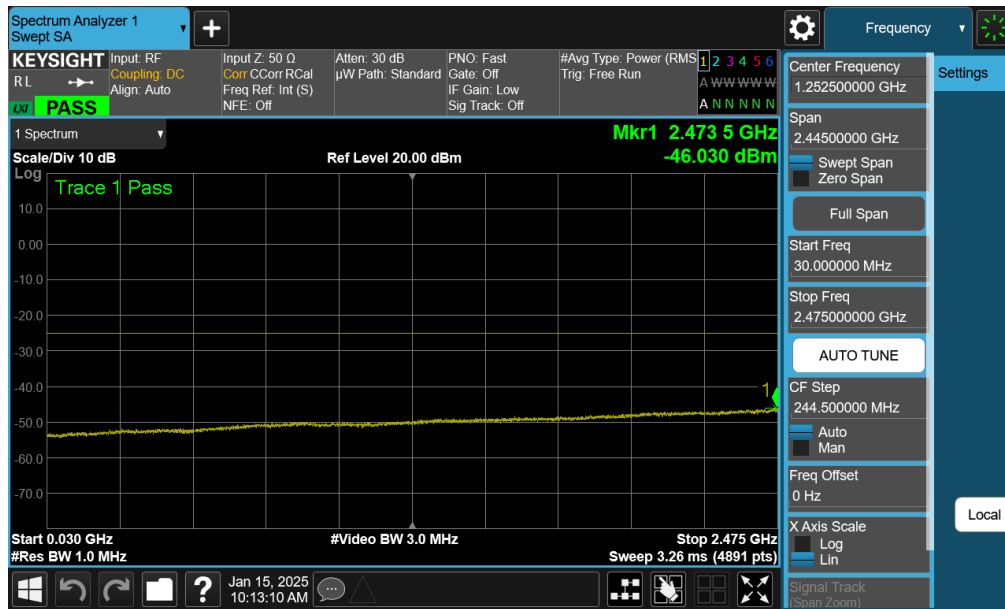


FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 68 of 138



FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 69 of 138

LTE Band 7 – Ant 2



FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 70 of 138

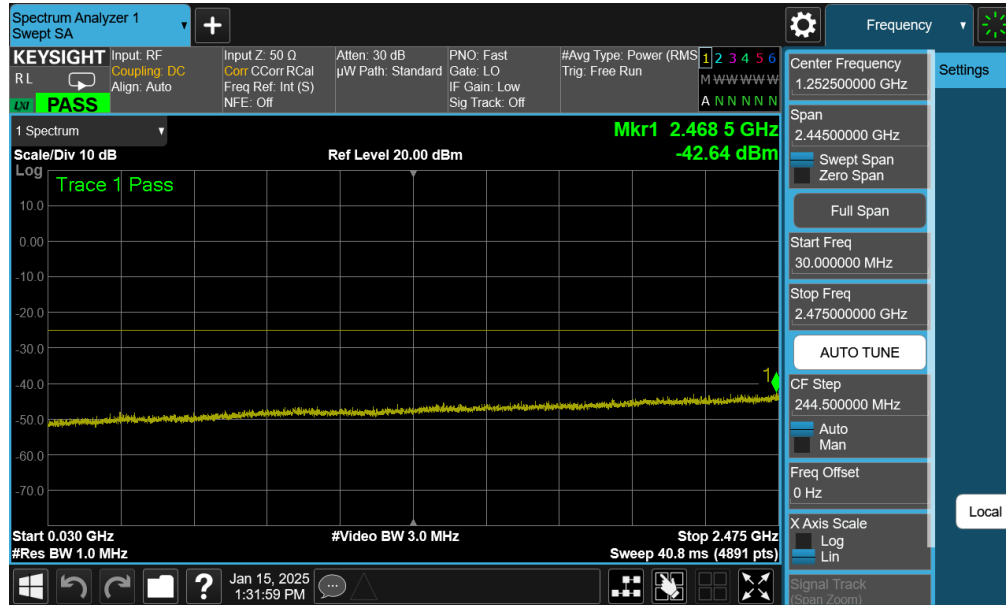


Plot 7-97. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant 2)

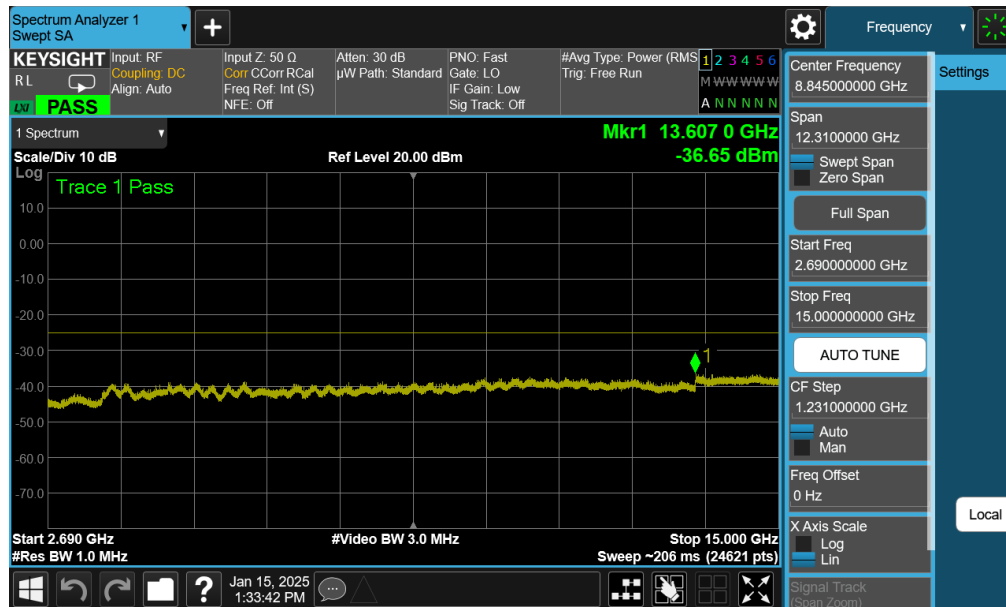
FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 71 of 138



LTE Band 41(PC3)/38 – Ant 2

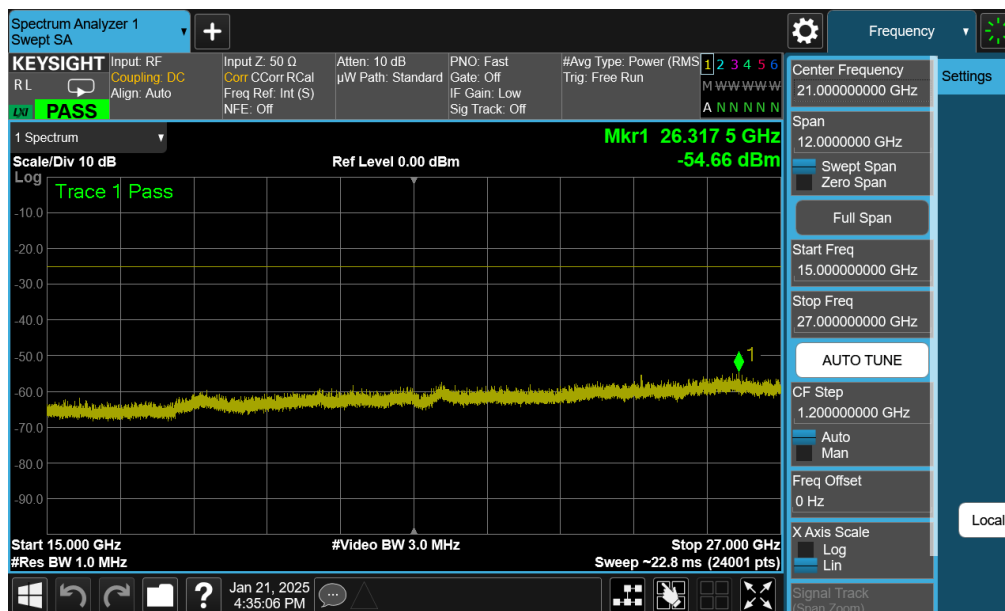


Plot 7-98. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant 2)



Plot 7-99. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 72 of 138



Plot 7-100. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 73 of 138