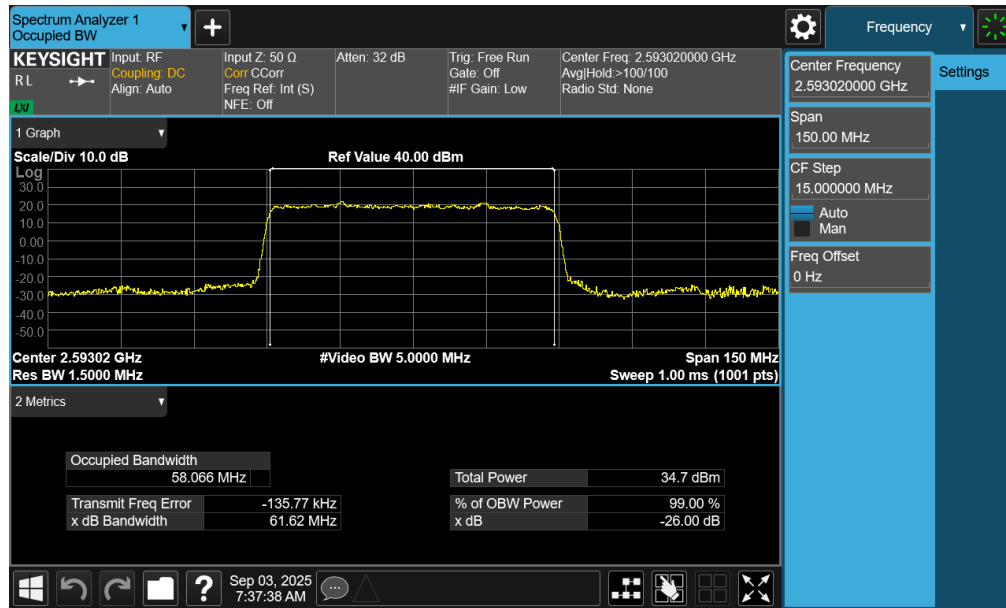
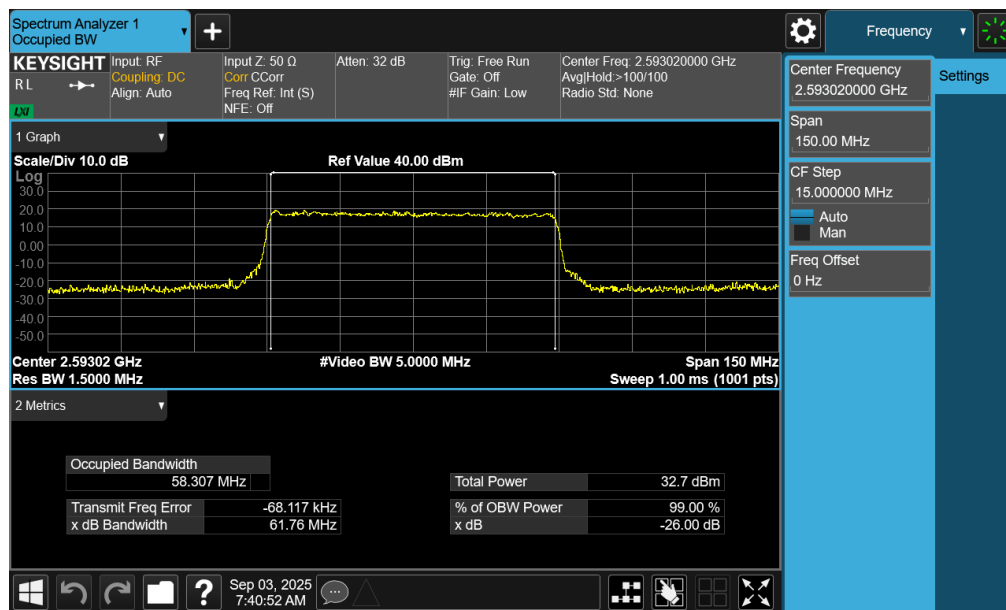


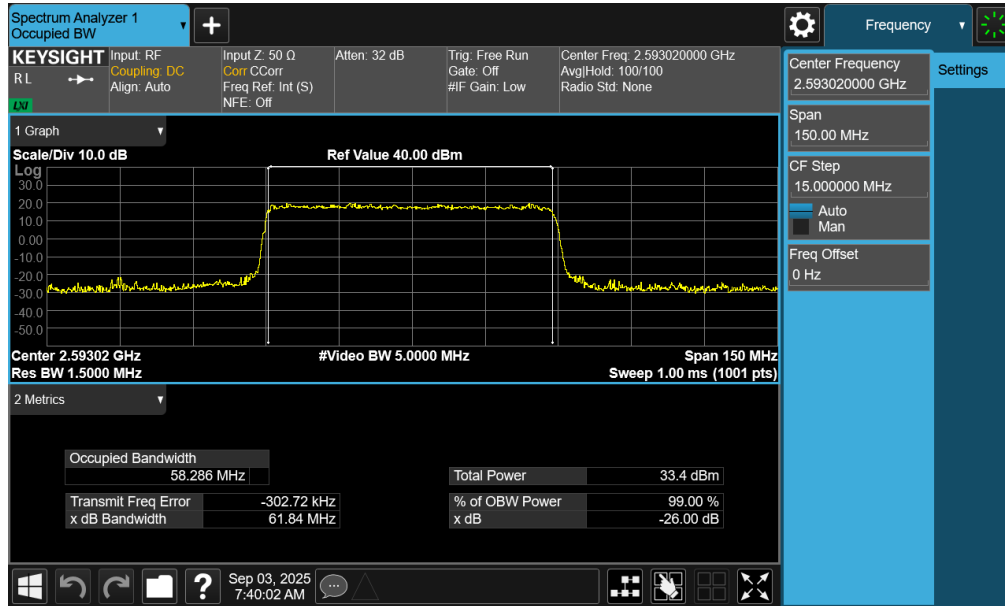


Plot 7-71. Occupied Bandwidth Plot (NR Band n41 PC2 – 60MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

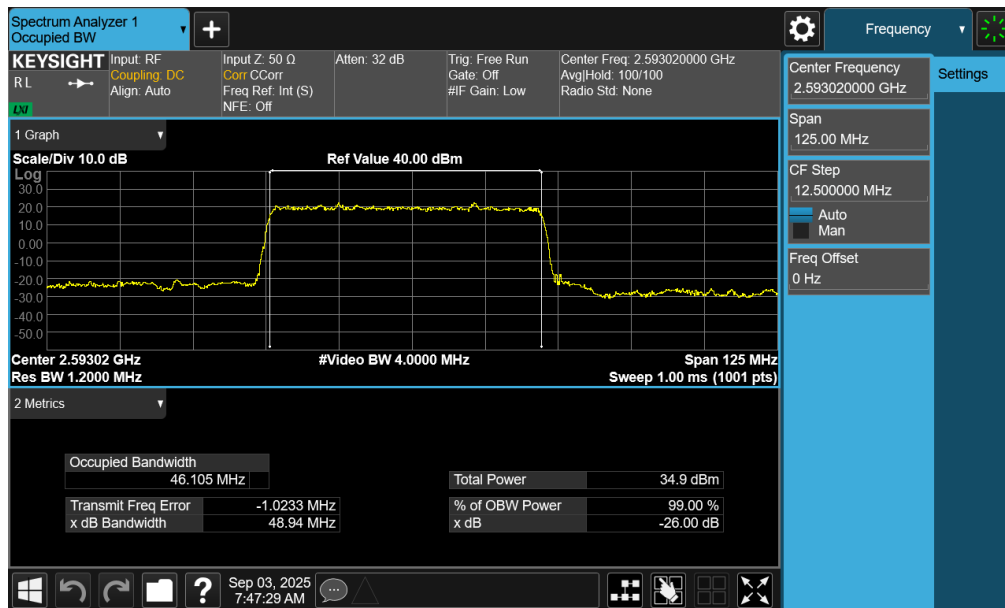


Plot 7-72. Occupied Bandwidth Plot (NR Band n41 PC2 – 60MHz QPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 65 of 139

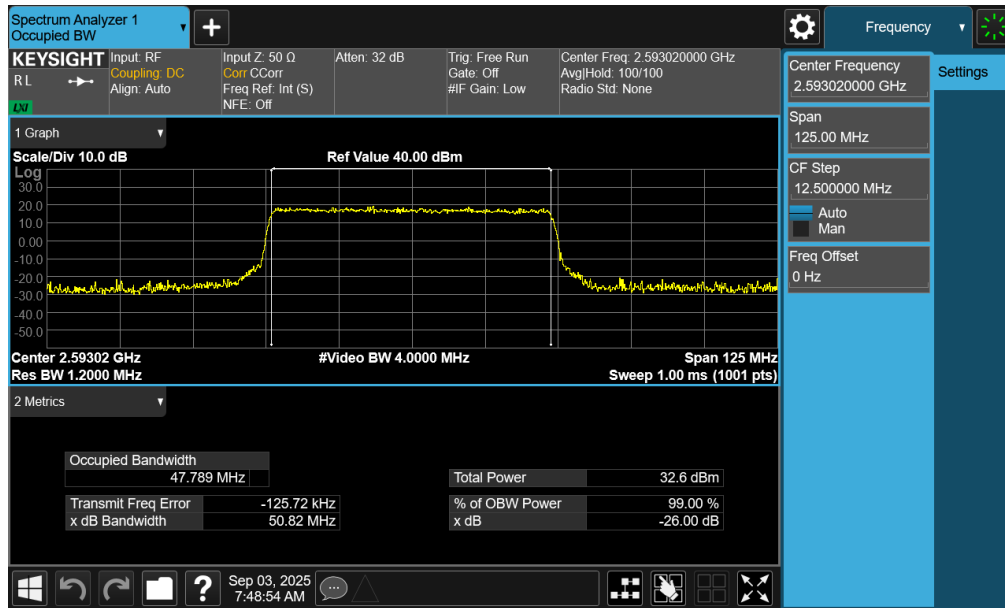


Plot 7-73. Occupied Bandwidth Plot (NR Band n41 PC2 – 60MHz 16-QAM – Full RB – Switch – Ant1)

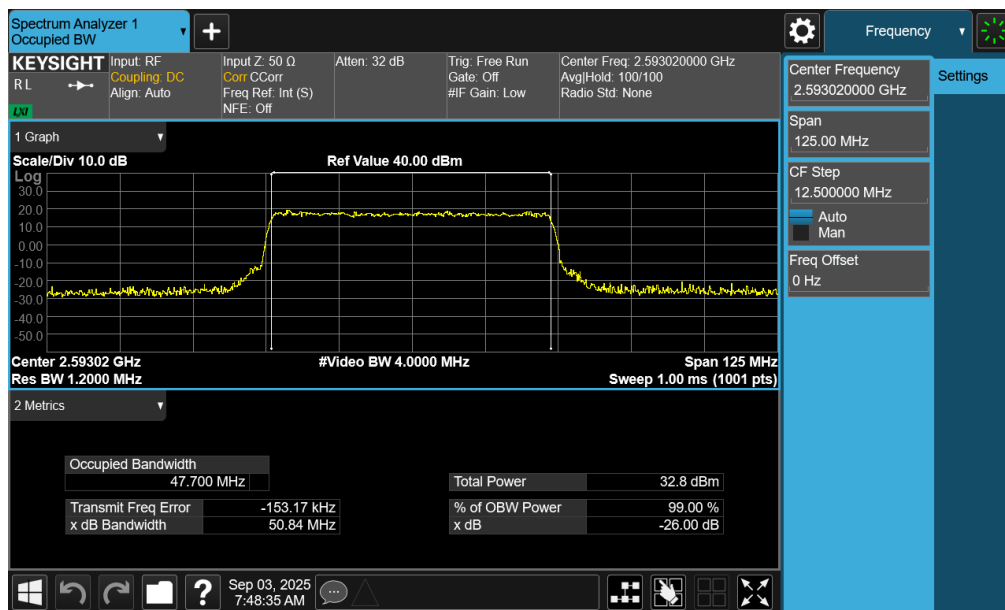


Plot 7-74. Occupied Bandwidth Plot (NR Band n41 PC2 – 50MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 66 of 139

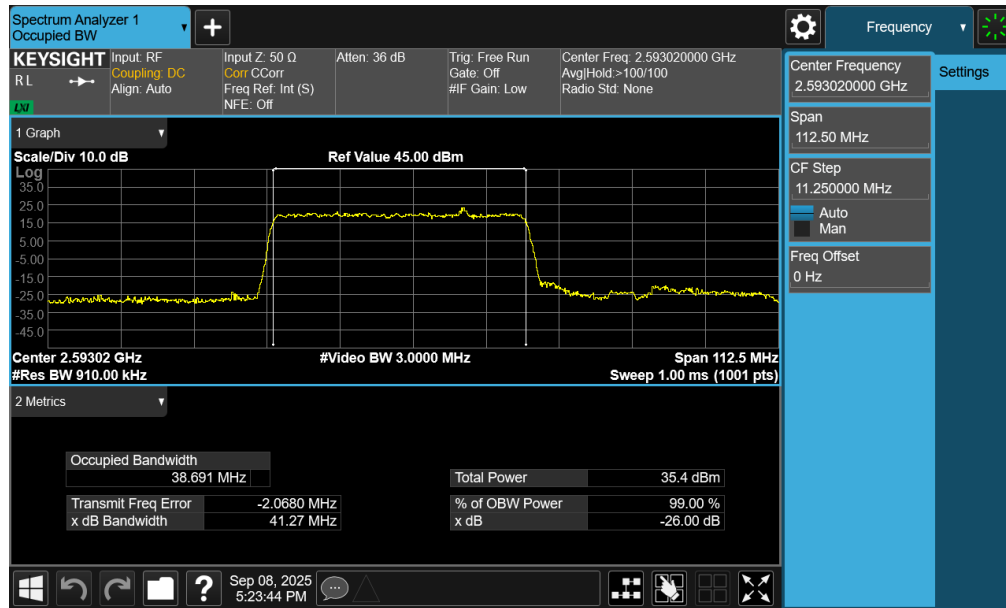


Plot 7-75. Occupied Bandwidth Plot (NR Band n41 PC2 – 50MHz QPSK – Full RB – Switch – Ant1)

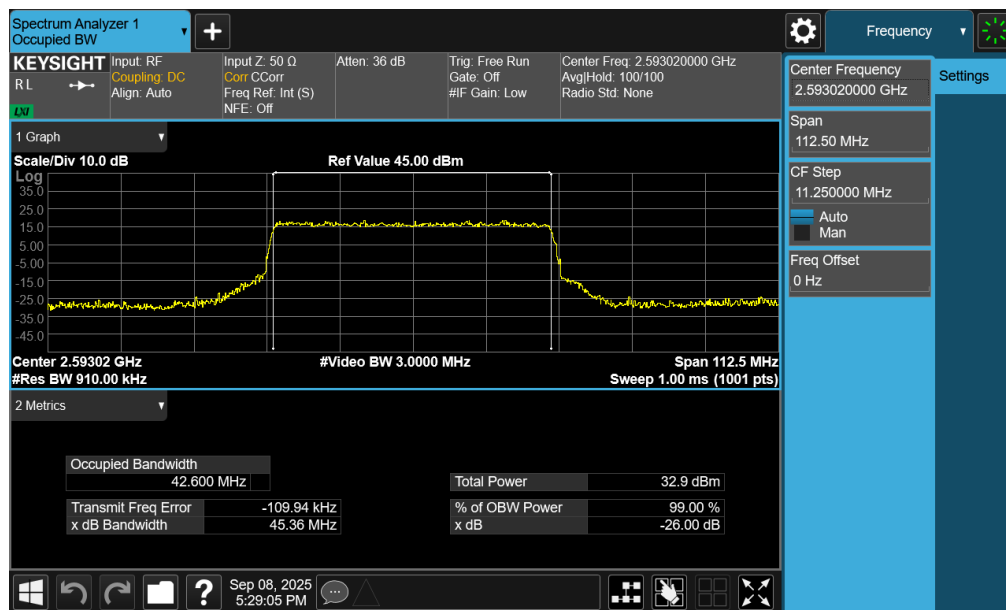


Plot 7-76. Occupied Bandwidth Plot (NR Band n41 PC2 – 50MHz 16-QAM – Full RB – Switch – Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 67 of 139

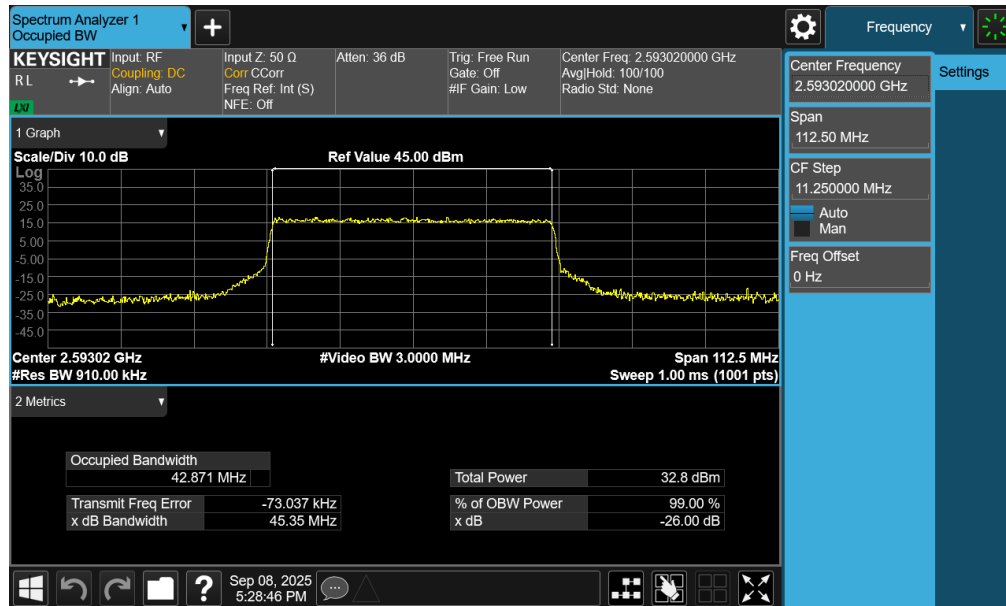


Plot 7-77. Occupied Bandwidth Plot (NR Band n41 PC2 – 45MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

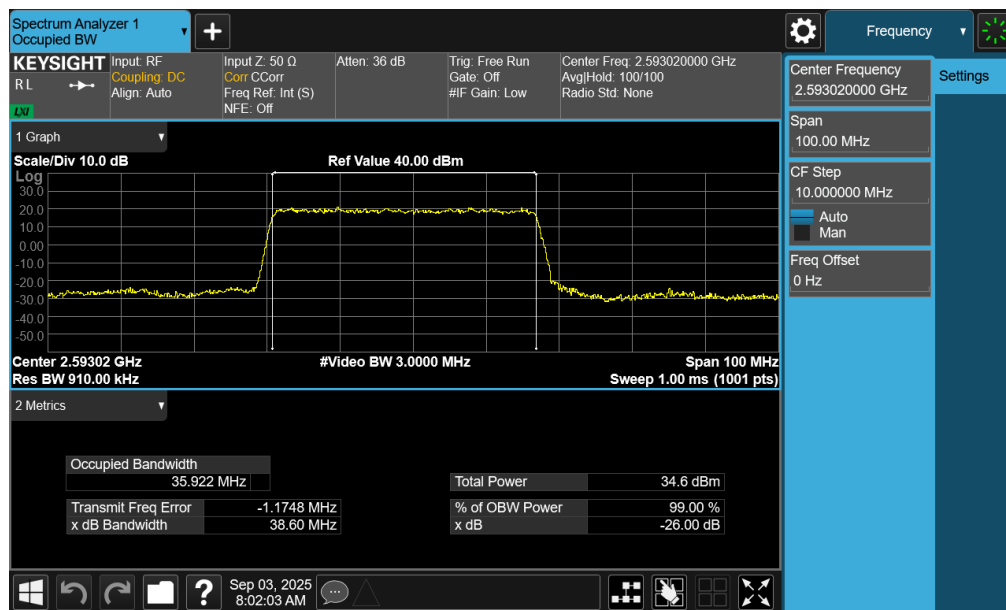


Plot 7-78. Occupied Bandwidth Plot (NR Band n41 PC2 – 45MHz QPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 68 of 139

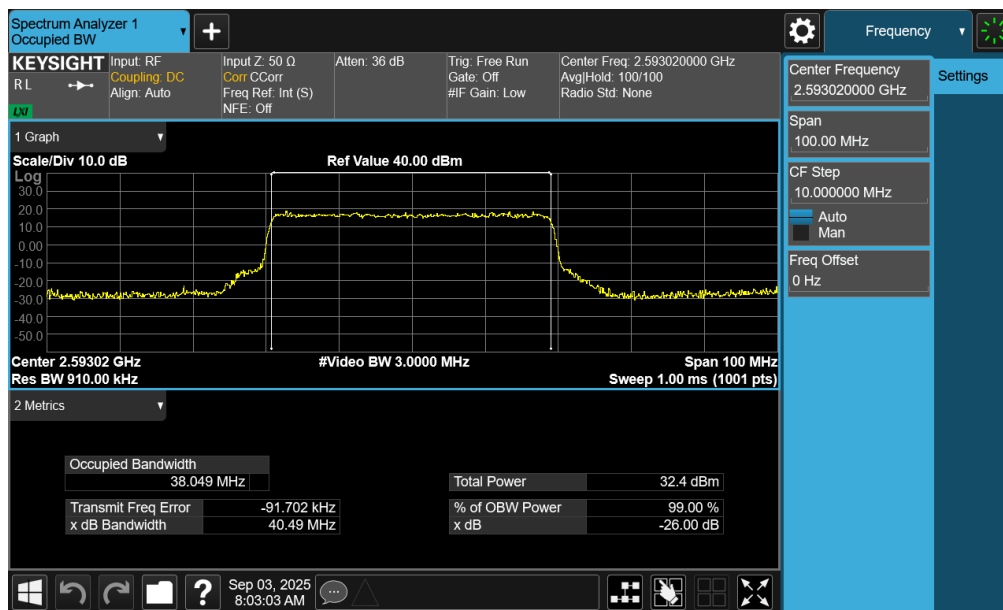
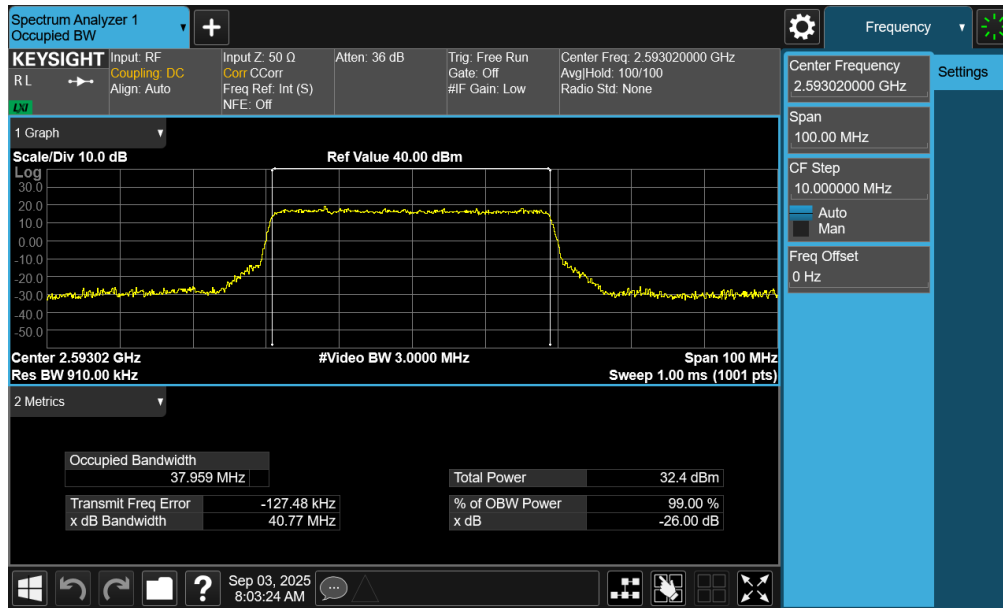


Plot 7-79. Occupied Bandwidth Plot (NR Band n41 PC2 – 45MHz 16-QAM – Full RB – Switch – Ant1)

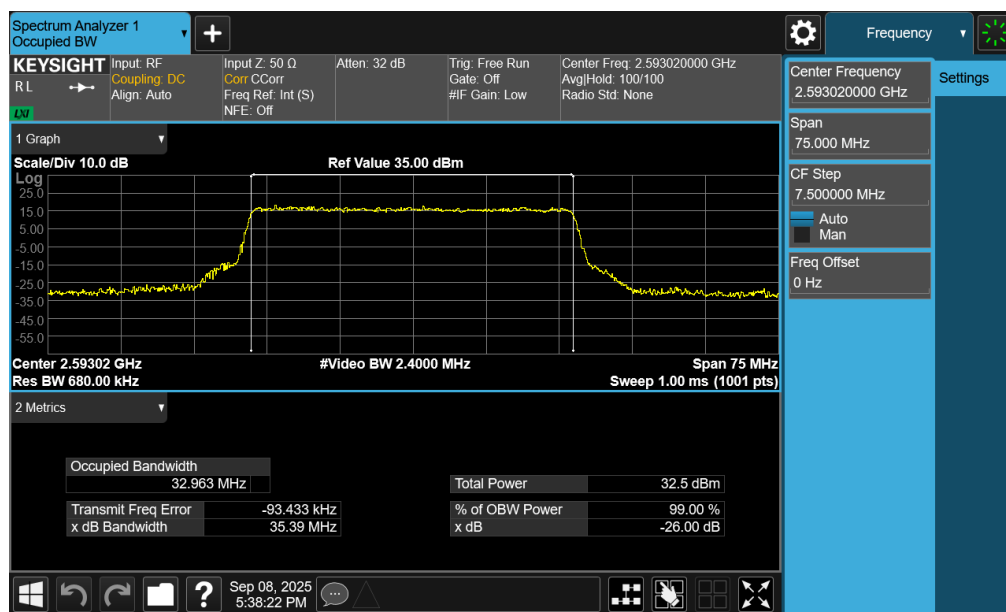
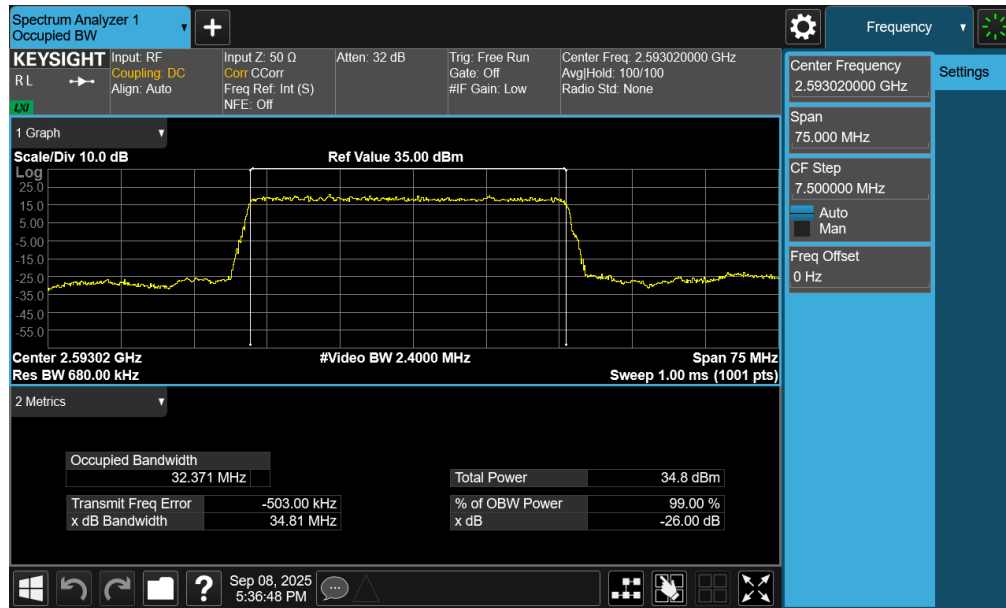


Plot 7-80. Occupied Bandwidth Plot (NR Band n41 PC2 – 40MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

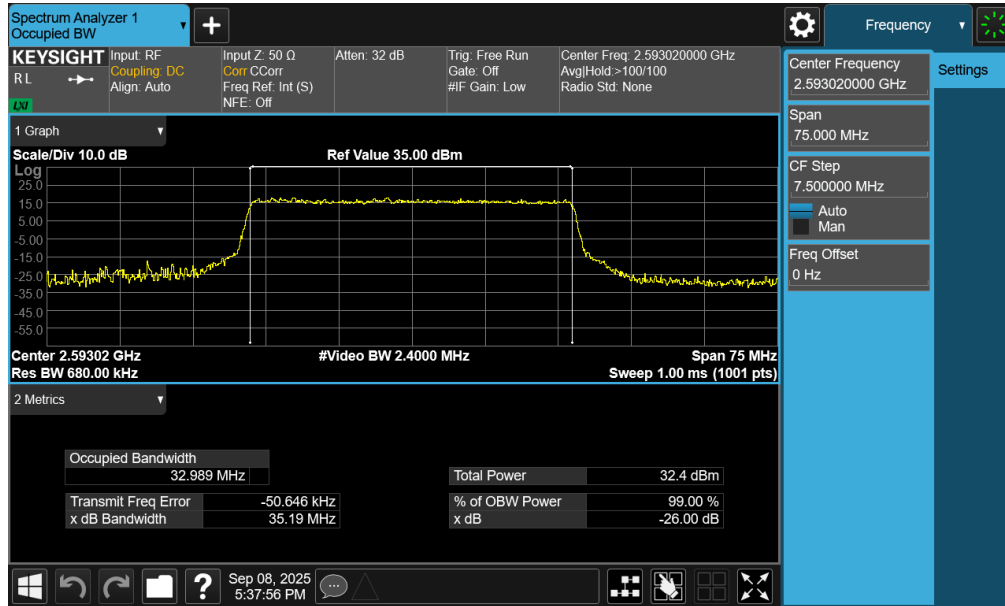
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 69 of 139



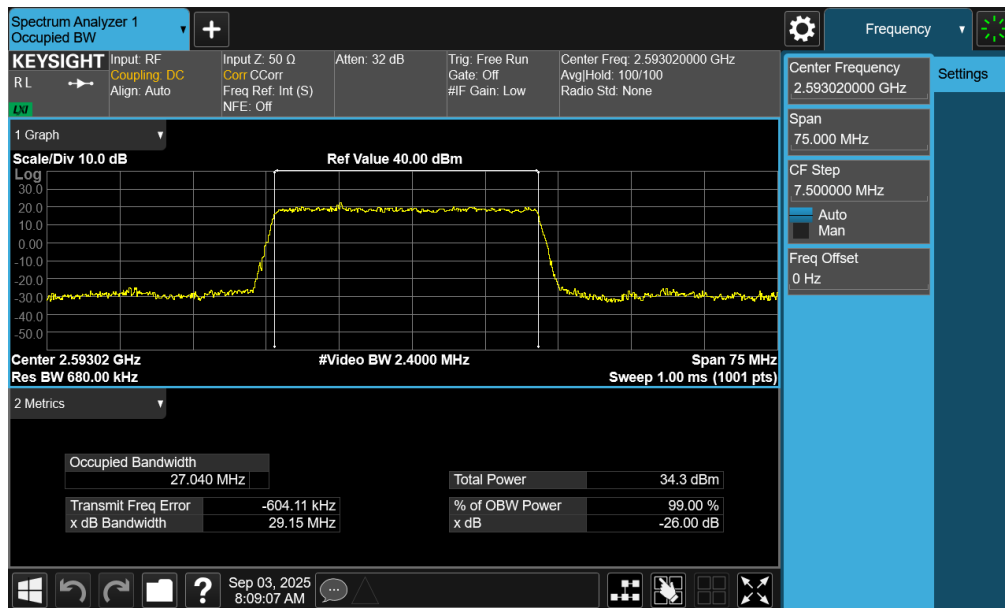
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 70 of 139



FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 71 of 139

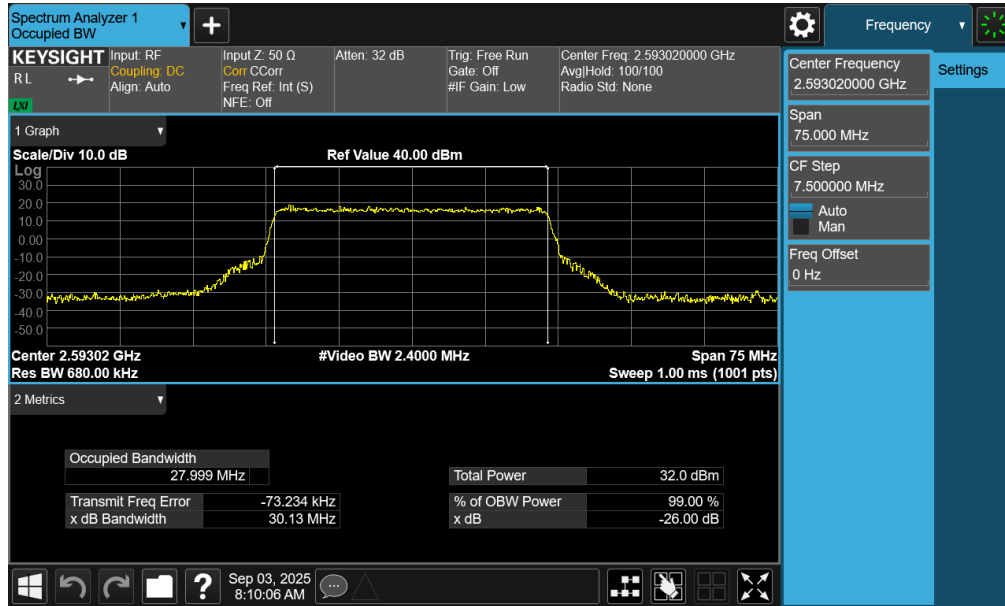


Plot 7-85. Occupied Bandwidth Plot (NR Band n41 PC2 – 35MHz 16-QAM – Full RB – Switch – Ant1)

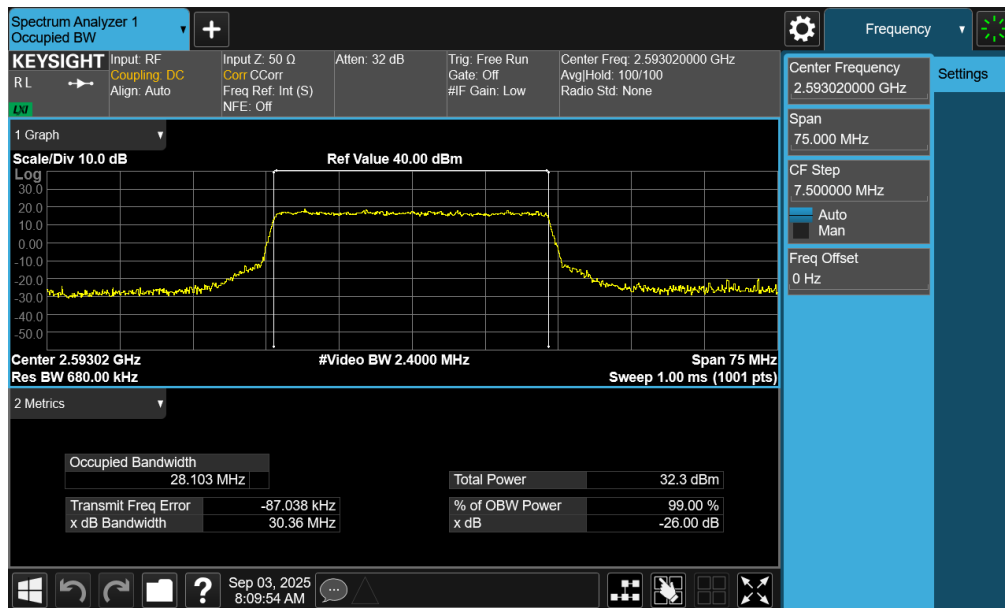


Plot 7-86. Occupied Bandwidth Plot (NR Band n41 PC2 – 30MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 72 of 139

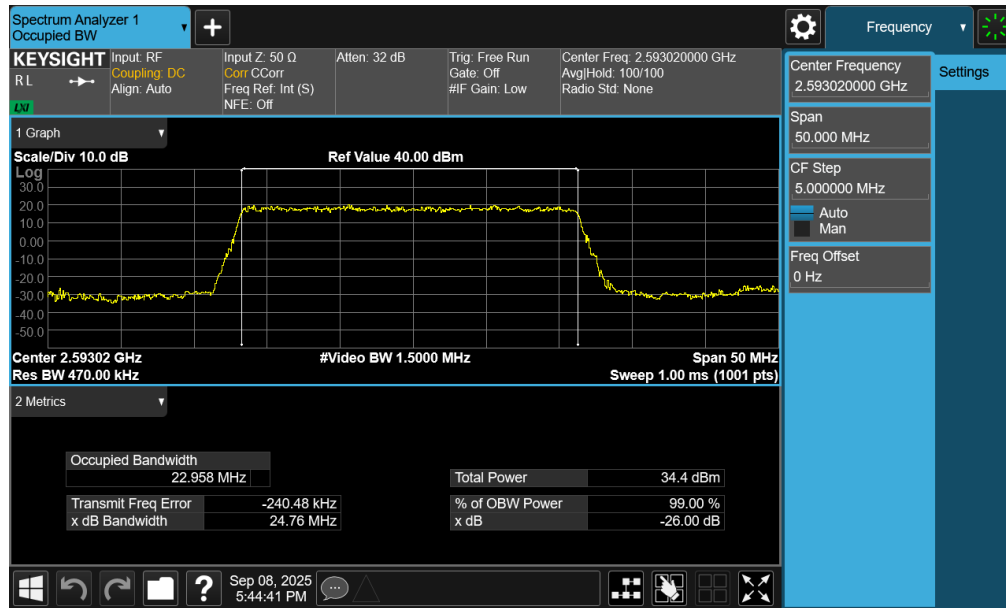


Plot 7-87. Occupied Bandwidth Plot (NR Band n41 PC2 – 30MHz QPSK – Full RB – Switch – Ant1)

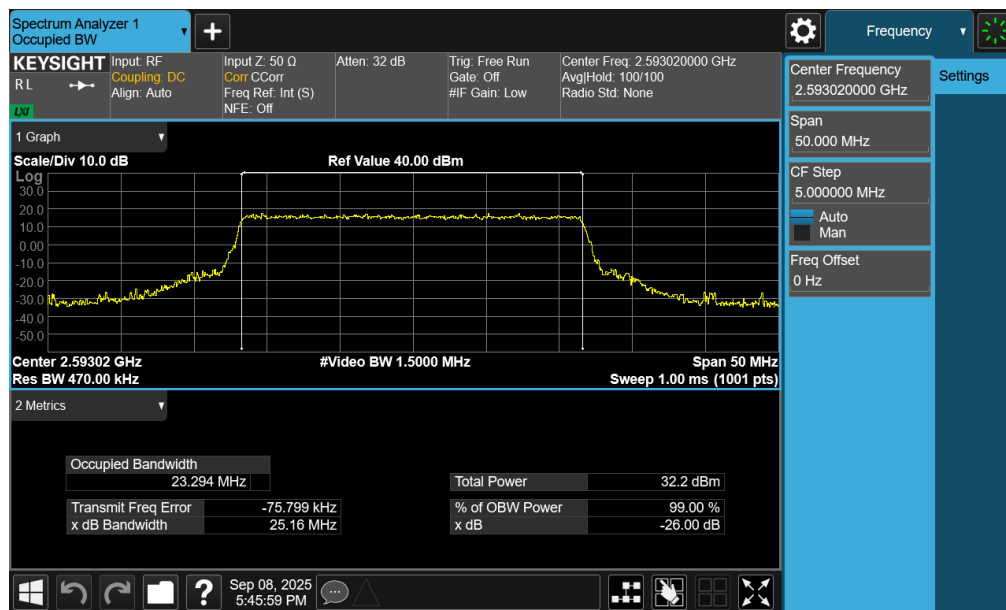


Plot 7-88. Occupied Bandwidth Plot (NR Band n41 PC2 – 30MHz 16-QAM – Full RB – Switch – Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 73 of 139

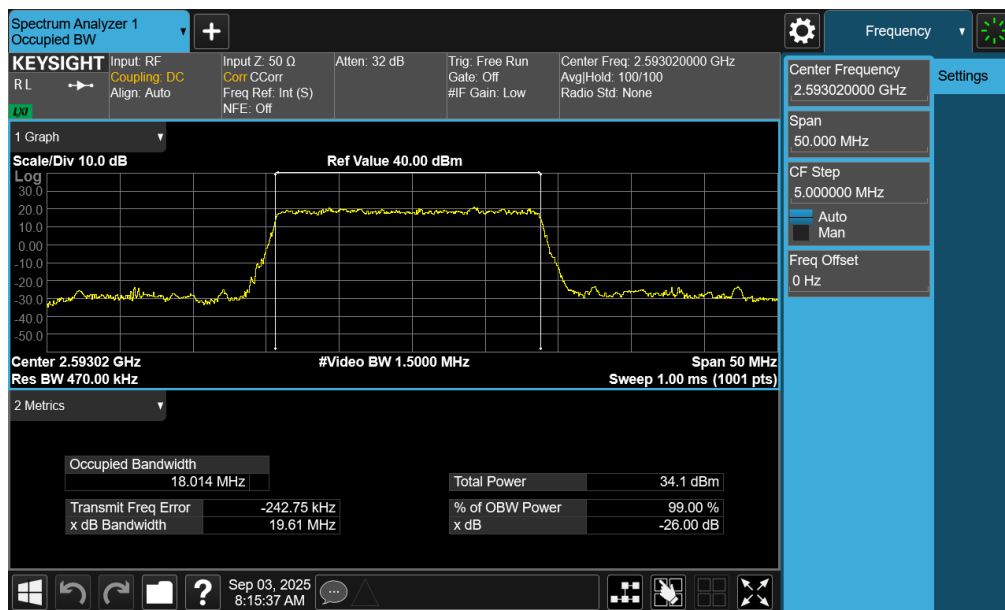
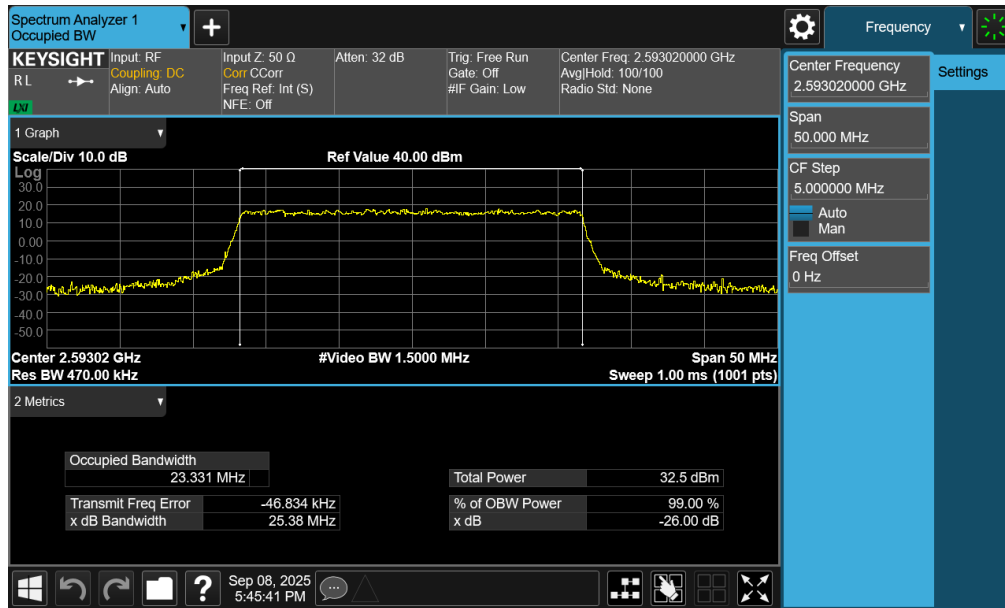


Plot 7-89. Occupied Bandwidth Plot (NR Band n41 PC2 – 25MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

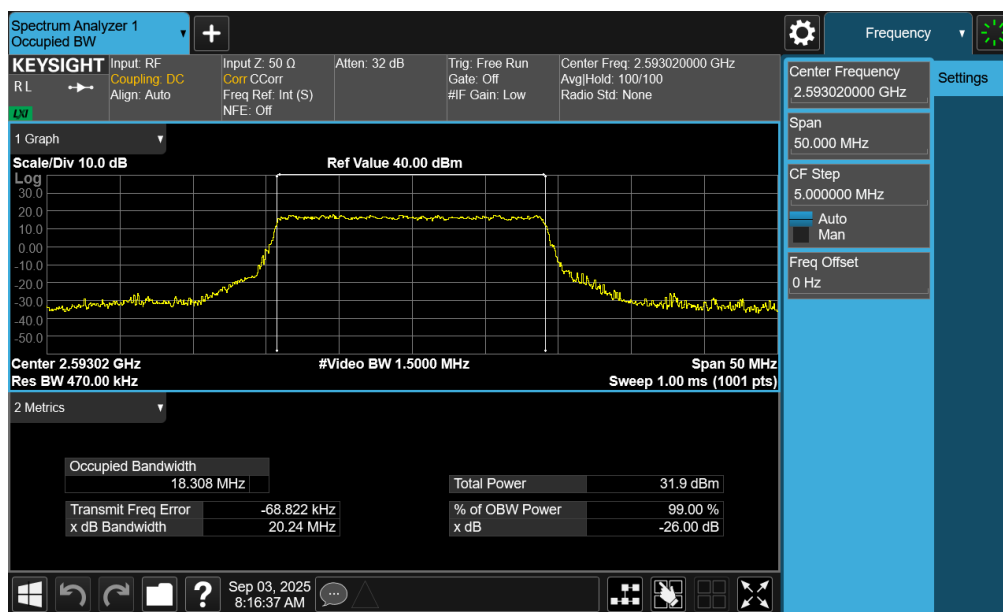
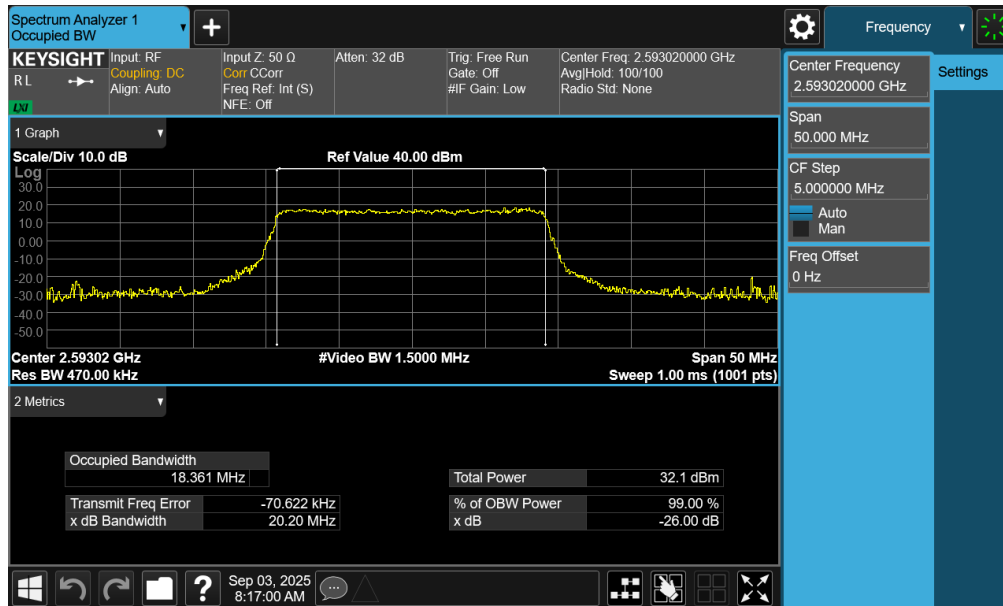


Plot 7-90. Occupied Bandwidth Plot (NR Band n41 PC2 – 25MHz QPSK – Full RB – Switch – Ant1)

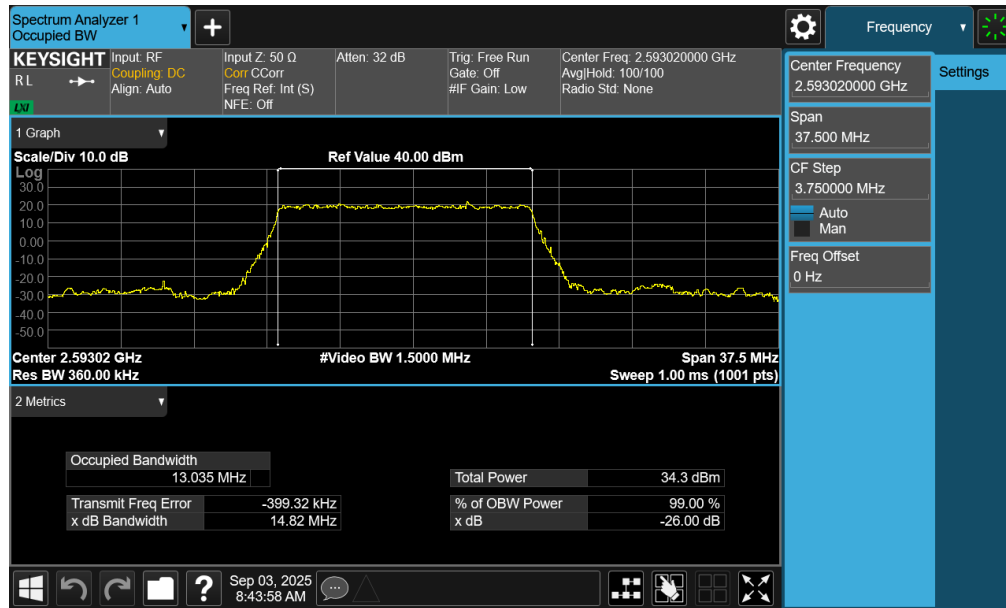
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 74 of 139



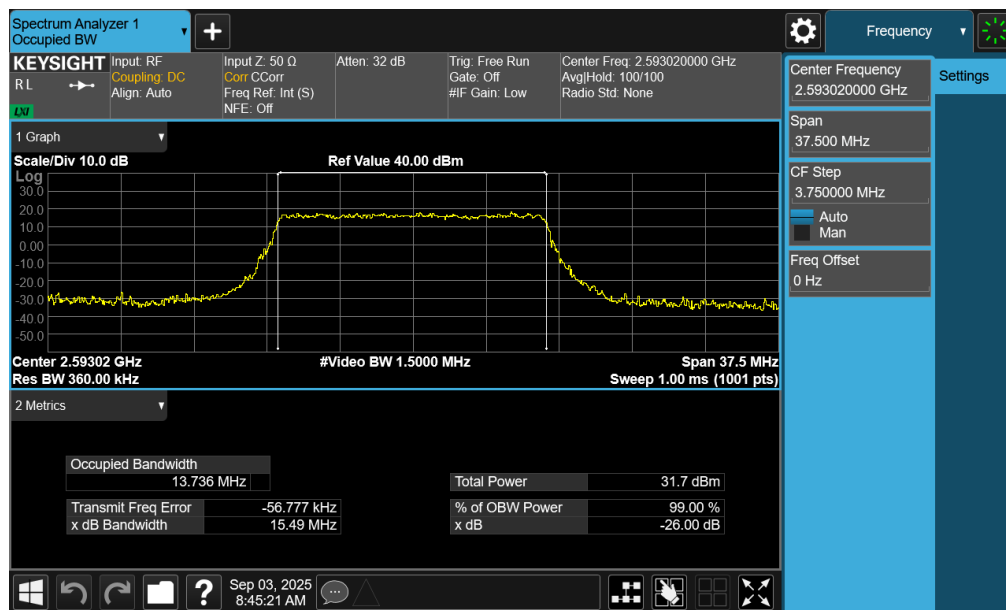
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 75 of 139



FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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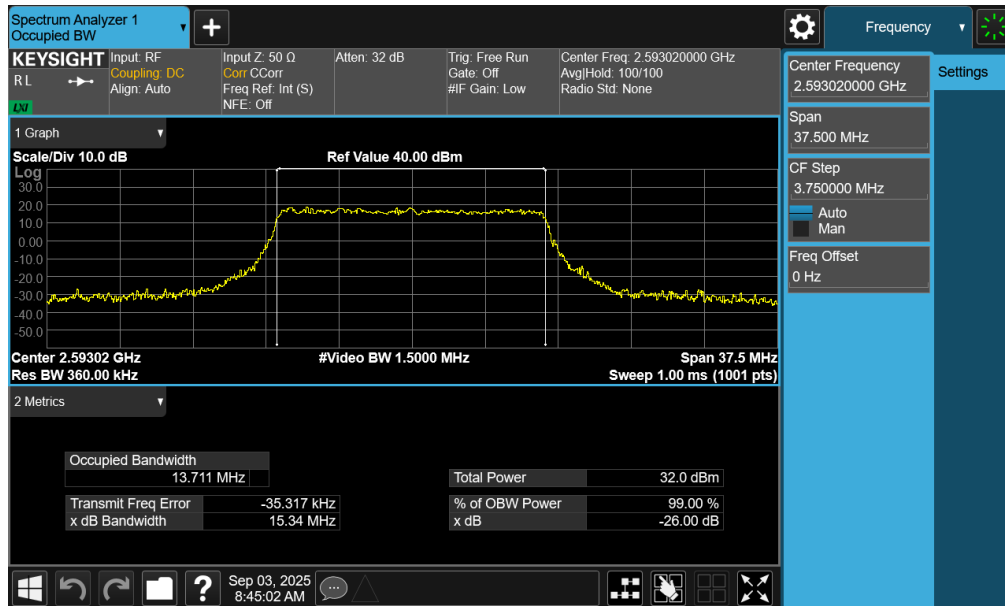


Plot 7-95. Occupied Bandwidth Plot (NR Band n41 PC2 – 15MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

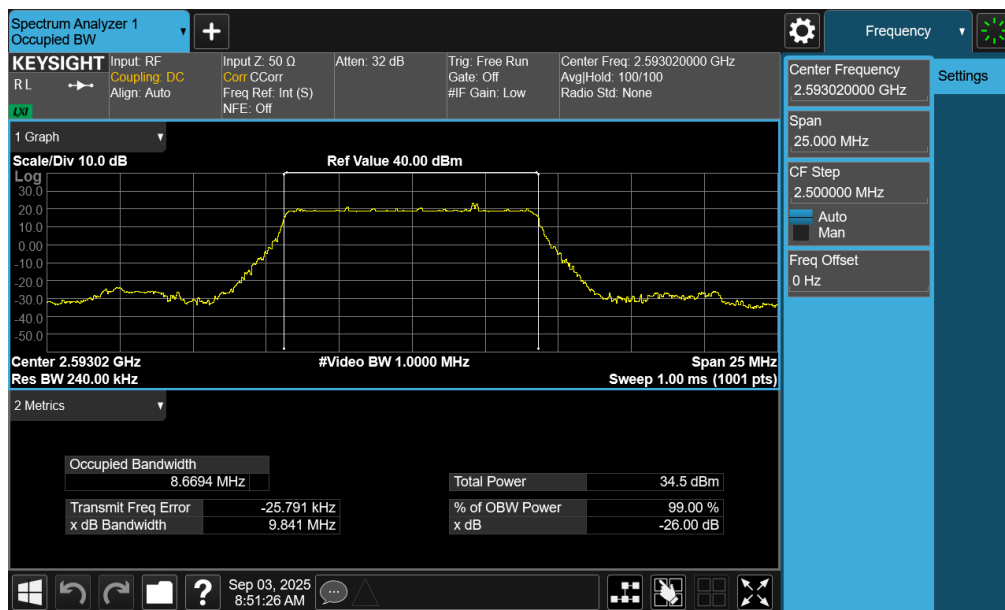


Plot 7-96. Occupied Bandwidth Plot (NR Band n41 PC2 – 15MHz QPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 77 of 139

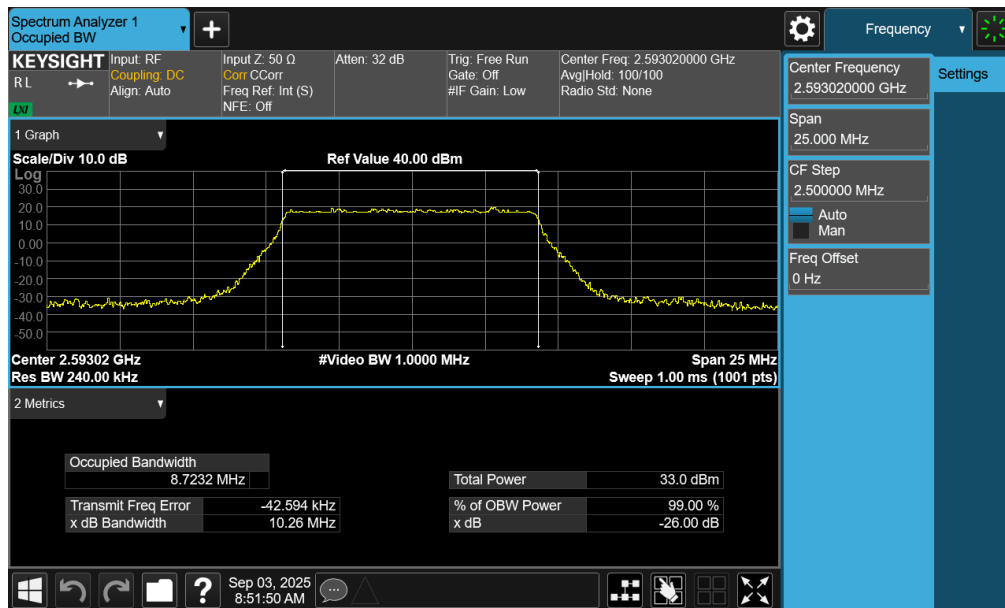
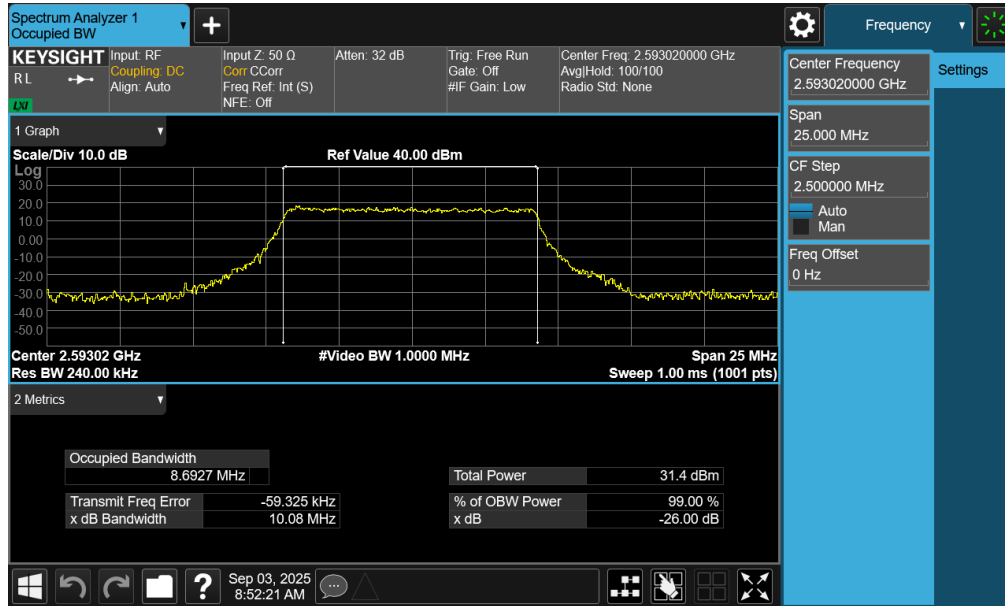


Plot 7-97. Occupied Bandwidth Plot (NR Band n41 PC2 – 15MHz 16-QAM – Full RB – Switch – Ant1)



Plot 7-98. Occupied Bandwidth Plot (NR Band n41 PC2 – 10MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 78 of 139



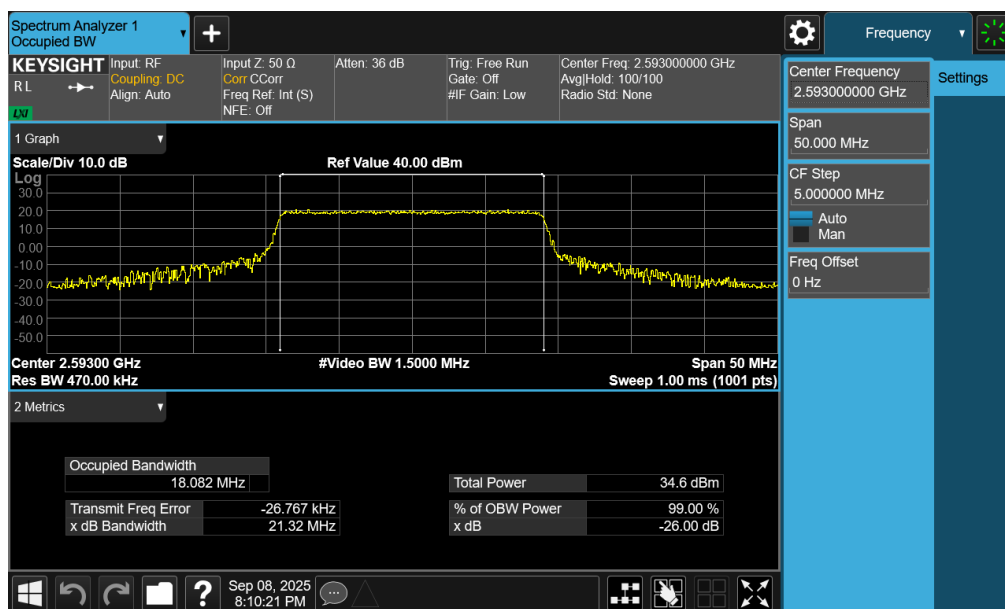
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 79 of 139

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B41PC2	20MHz	QPSK	18.08
		16QAM	18.01
	15MHz	QPSK	13.56
		16QAM	13.57
	10MHz	QPSK	9.04
		16QAM	9.05
	5MHz	QPSK	4.55
		16QAM	4.54
LTE-B41PC3	20MHz	QPSK	18.06
		16QAM	18.03
	15MHz	QPSK	13.54
		16QAM	13.55
	10MHz	QPSK	9.05
		16QAM	9.04
	5MHz	QPSK	4.54
		16QAM	4.53

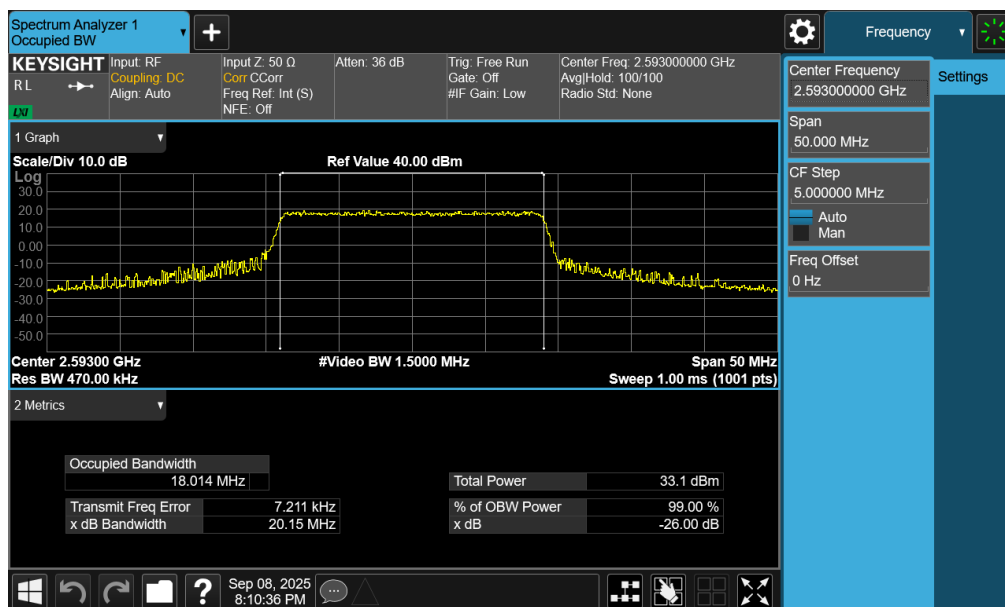
Table 7-15. Occupied Bandwidth Test Results – LTE – Ant 2

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 80 of 139

LTE Band 41PC2 – Ant2

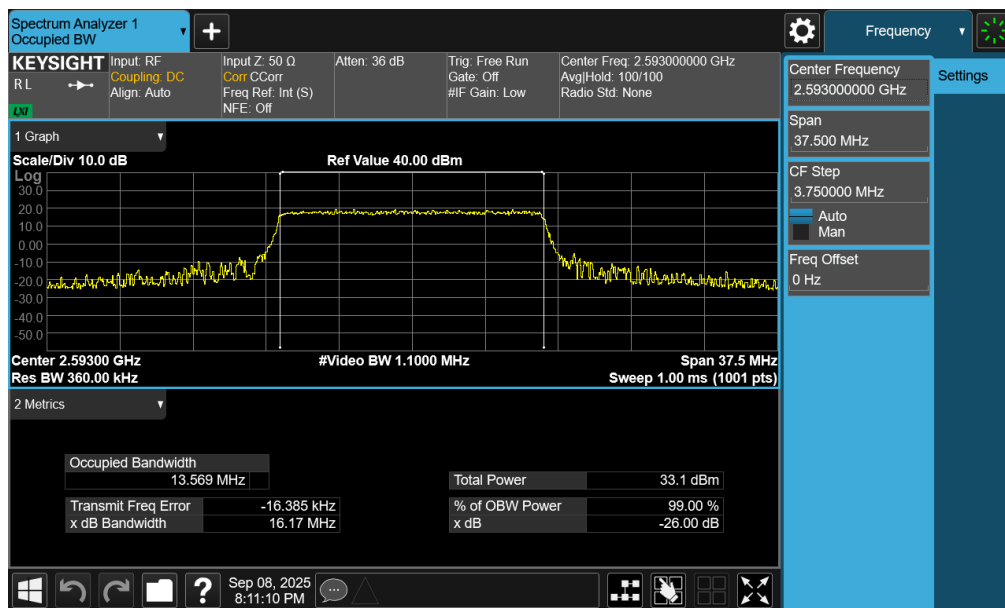
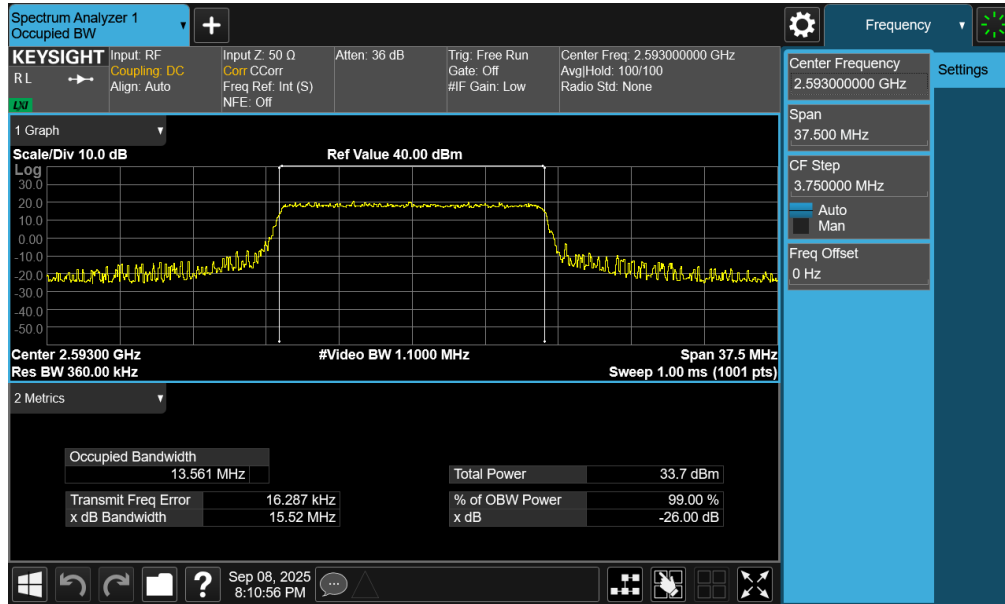


Plot 7-101. Occupied Bandwidth Plot (LTE Band 41PC2 - 20MHz QPSK - Full RB - Ant2)

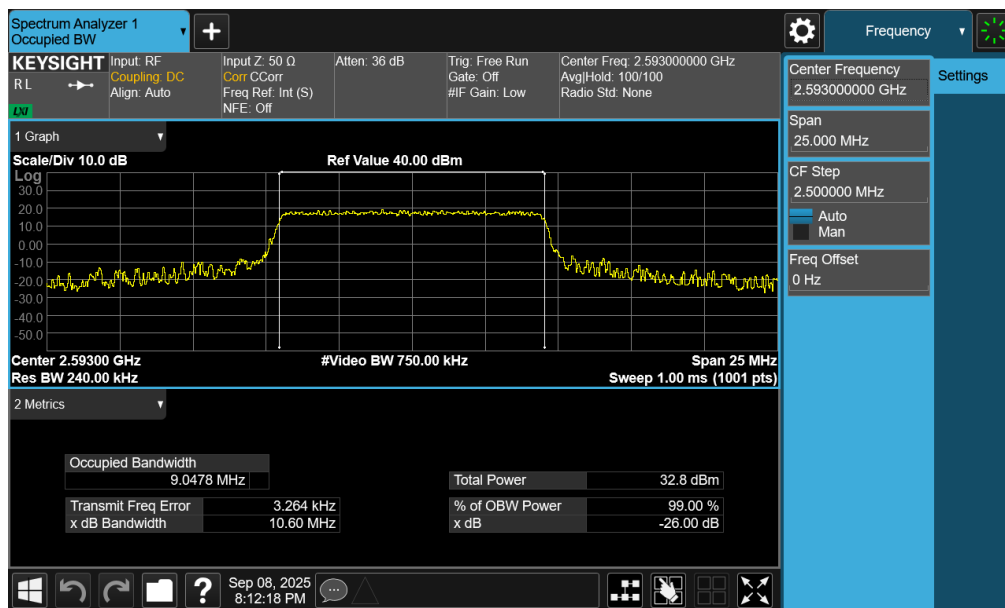
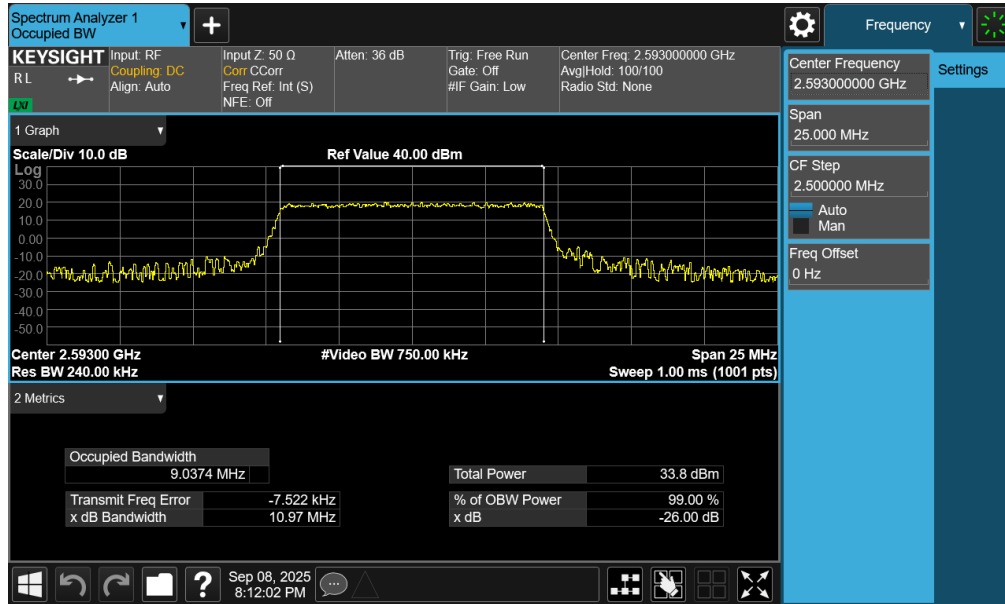


Plot 7-102. Occupied Bandwidth Plot (LTE Band 41PC2 - 20MHz 16-QAM - Full RB - Ant2)

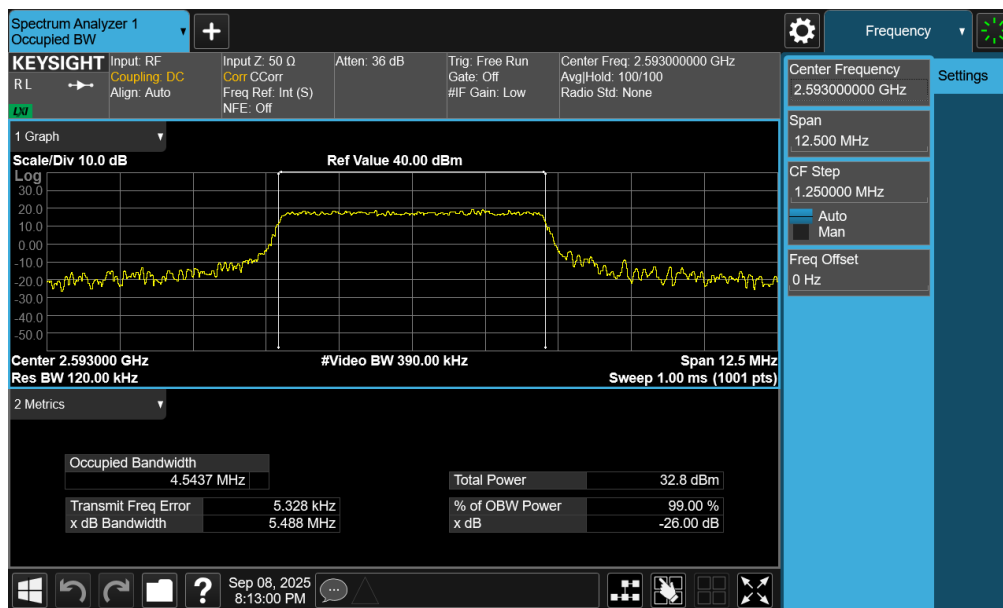
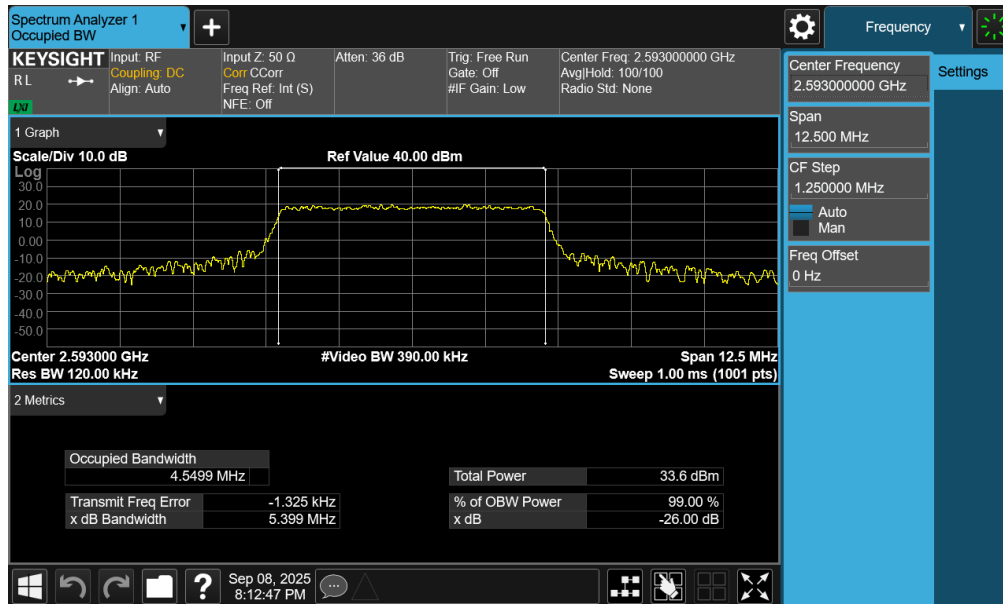
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 81 of 139



FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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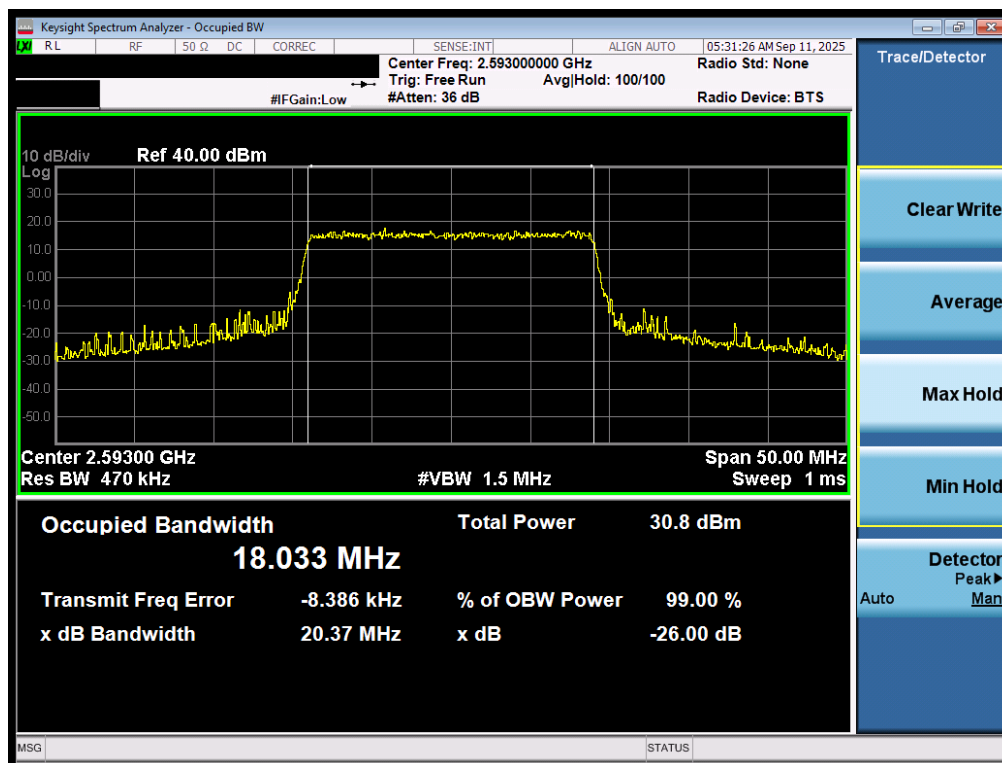


FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 84 of 139

LTE Band 41(PC3) – Ant2

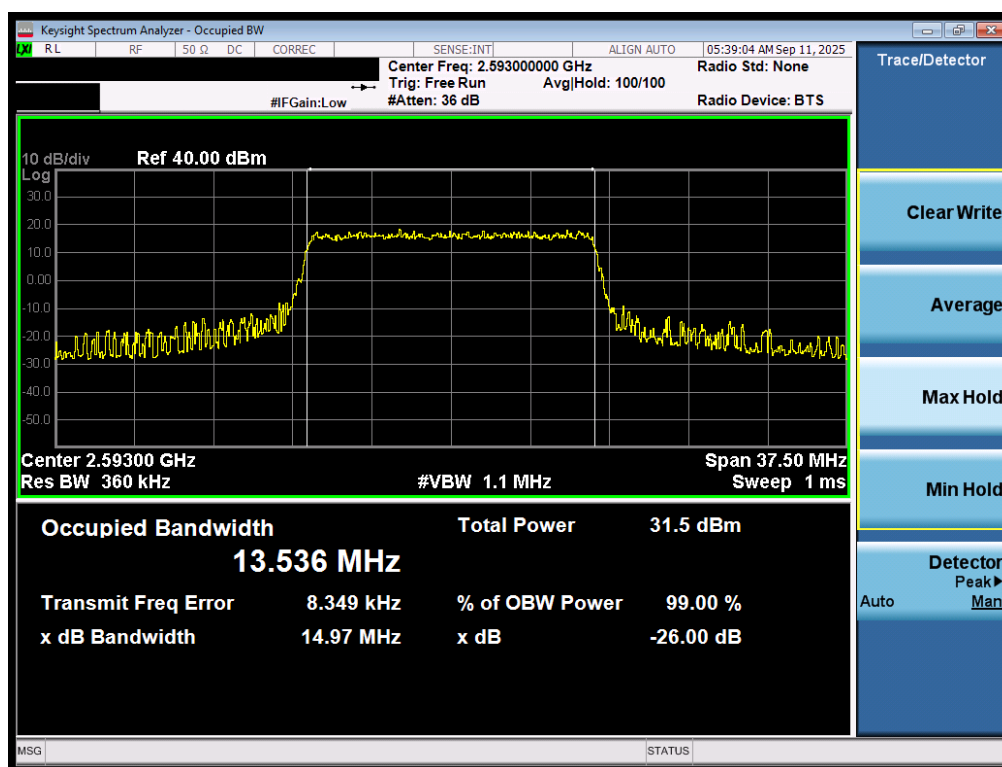


Plot 7-109. Occupied Bandwidth Plot (LTE Band 41(PC3) - 20MHz QPSK - Full RB - Ant2)

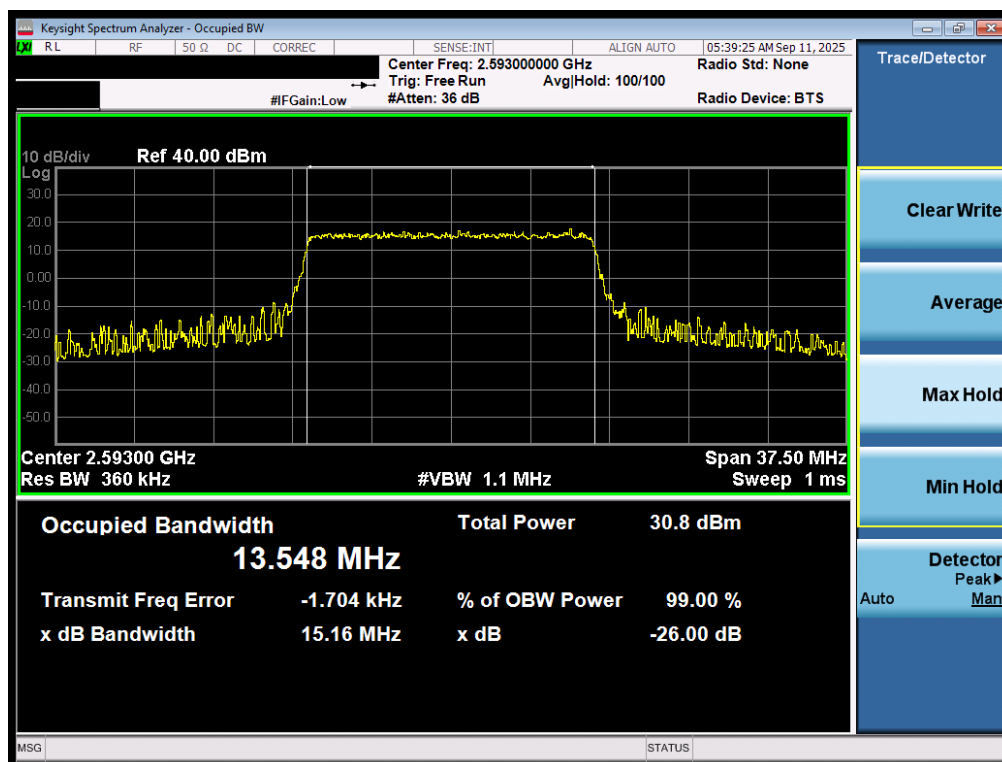


Plot 7-110. Occupied Bandwidth Plot (LTE Band 41(PC3) - 20MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 85 of 139

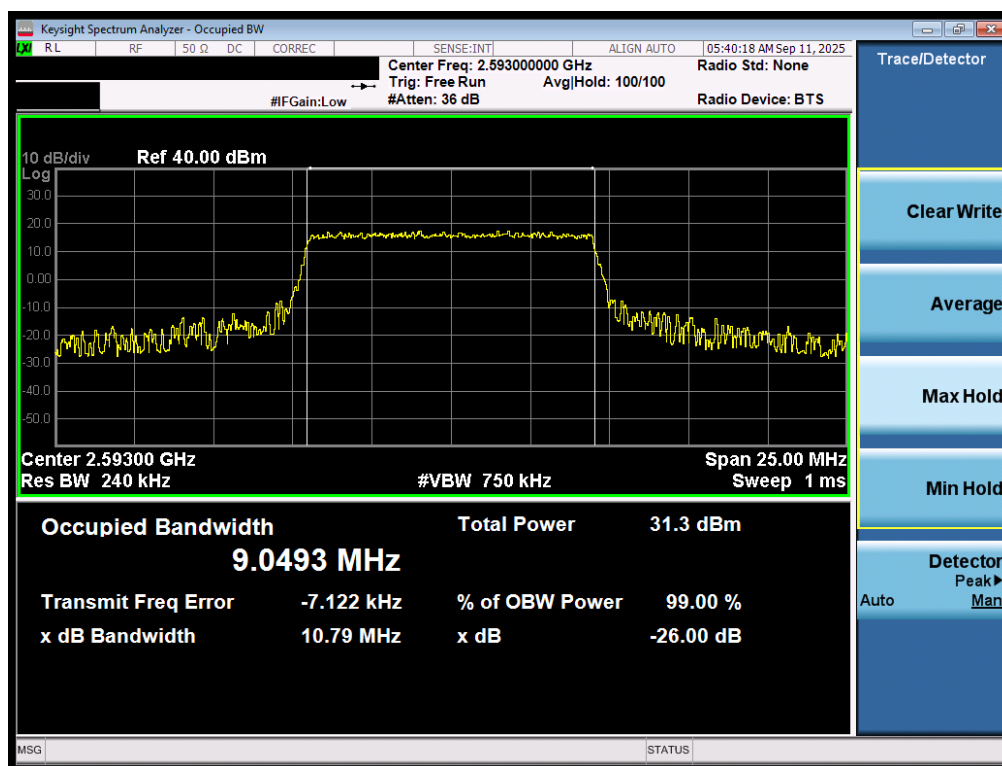


Plot 7-111. Occupied Bandwidth Plot (LTE Band 41(PC3) - 15MHz QPSK - Full RB - Ant2)



Plot 7-112. Occupied Bandwidth Plot (LTE Band 41(PC3) - 15MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-113. Occupied Bandwidth Plot (LTE Band 41(PC3) - 10MHz QPSK - Full RB - Ant2)



Plot 7-114. Occupied Bandwidth Plot (LTE Band 41(PC3) - 10MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 87 of 139



Plot 7-115. Occupied Bandwidth Plot (LTE Band 41(PC3) - 5MHz QPSK - Full RB - Ant2)



Plot 7-116. Occupied Bandwidth Plot (LTE Band 41(PC3) - 5MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 88 of 139

7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

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

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

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

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.4

Test Settings

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

Test Setup

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

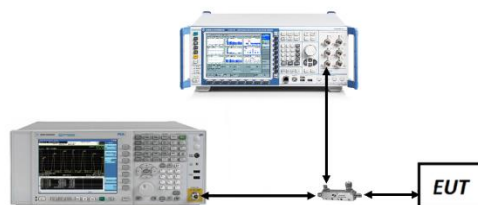


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

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

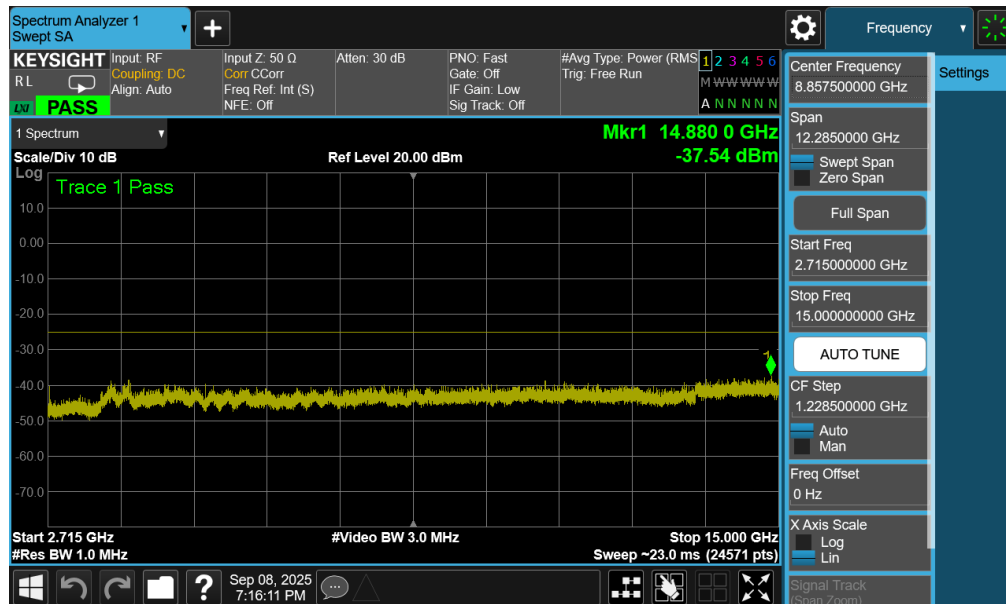
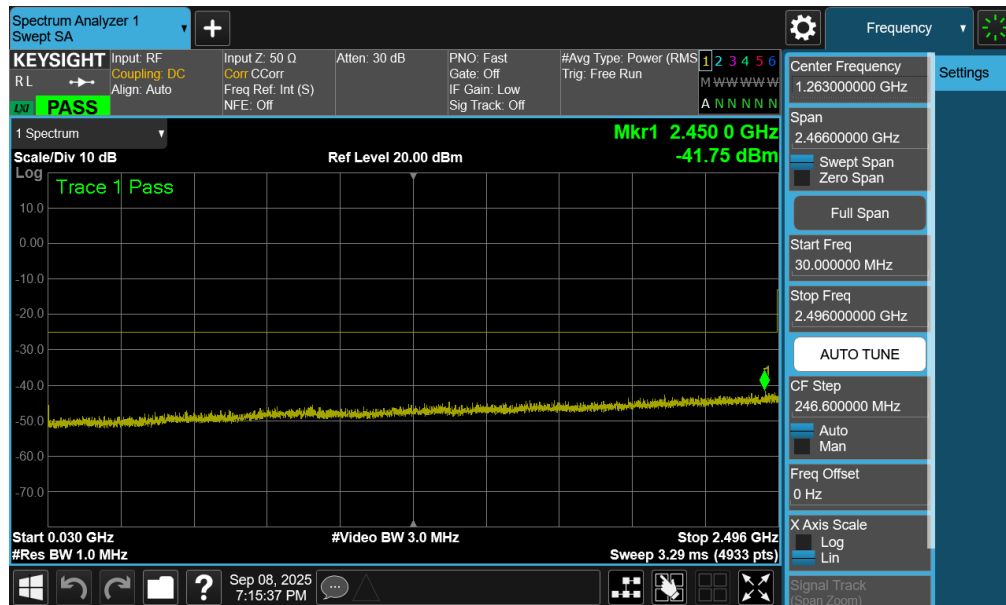
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 89 of 139

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC2	20MHz	Low	30.0 - 2475.0	-38.37	-25	-13.37
		Low	2690.0 - 15000.0	-37.94	-25	-12.94
		Low	15000.0 - 27000.0	-52.57	-25	-27.57
		Mid	30.0 - 2500.0	-42.13	-25	-17.13
		Mid	2690.0 - 15000.0	-37.01	-25	-12.01
		Mid	15000.0 - 27000.0	-51.67	-25	-26.67
		High	30.0 - 2500.0	-41.75	-25	-16.75
		High	2690.0 - 15000.0	-37.54	-25	-12.54
		High	15000.0 - 27000.0	-51.7	-25	-26.70
LTE-B41PC3	20MHz	Low	30.0 - 2288.0	-47.44	-25	-22.44
		Low	2365.0 - 15000.0	-37.57	-25	-12.57
		Low	15000.0 - 27000.0	-51.22	-25	-26.22
		Mid	30.0 - 2288.0	-42.2	-25	-17.20
		Mid	2570.0 - 15000.0	-37.79	-25	-12.79
		Mid	15000.0 - 27000.0	-51.34	-25	-26.34
		High	30.0 - 2288.0	-42.31	-25	-17.31
		High	2570.0 - 15000.0	-37.55	-25	-12.55
		High	15000.0 - 27000.0	-52.1	-25	-27.10

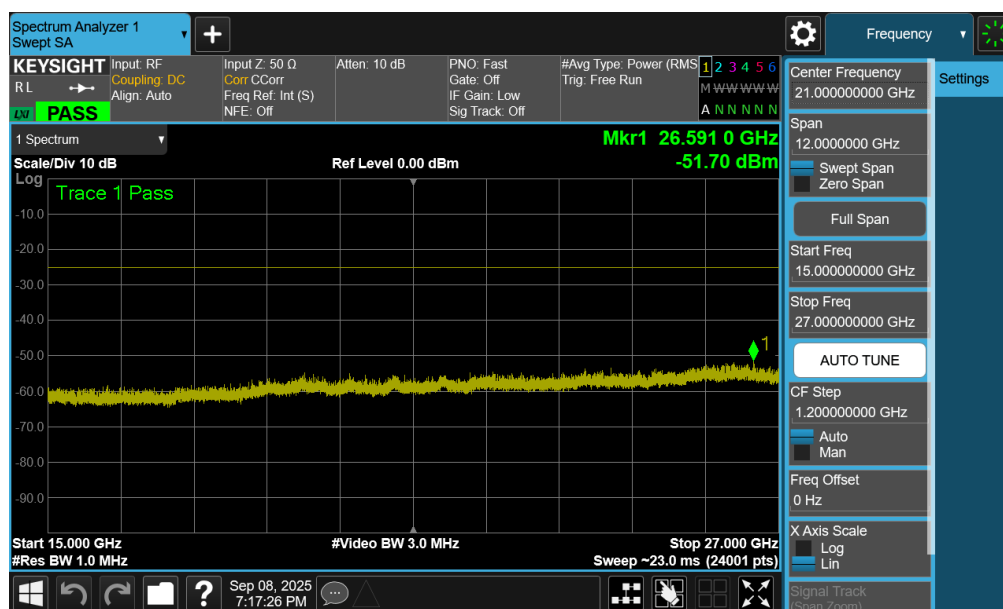
Table 7-16. Conducted Emission Test Results – LTE – Ant 1

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 90 of 139

LTE Band 41PC2 – Ant1



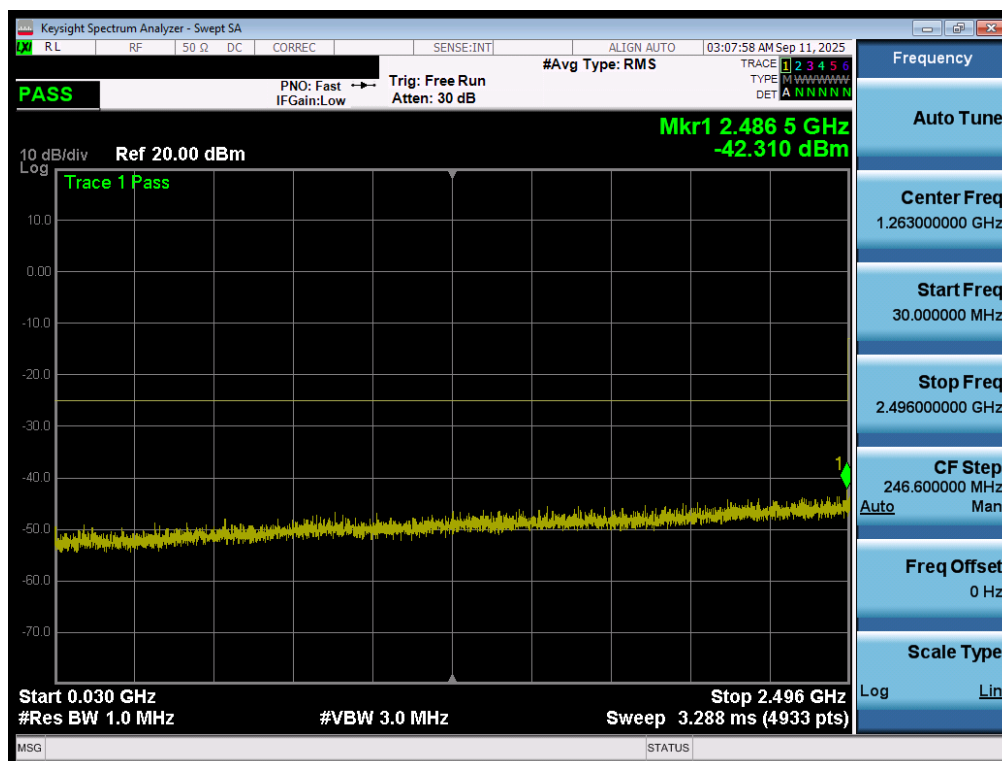
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 91 of 139



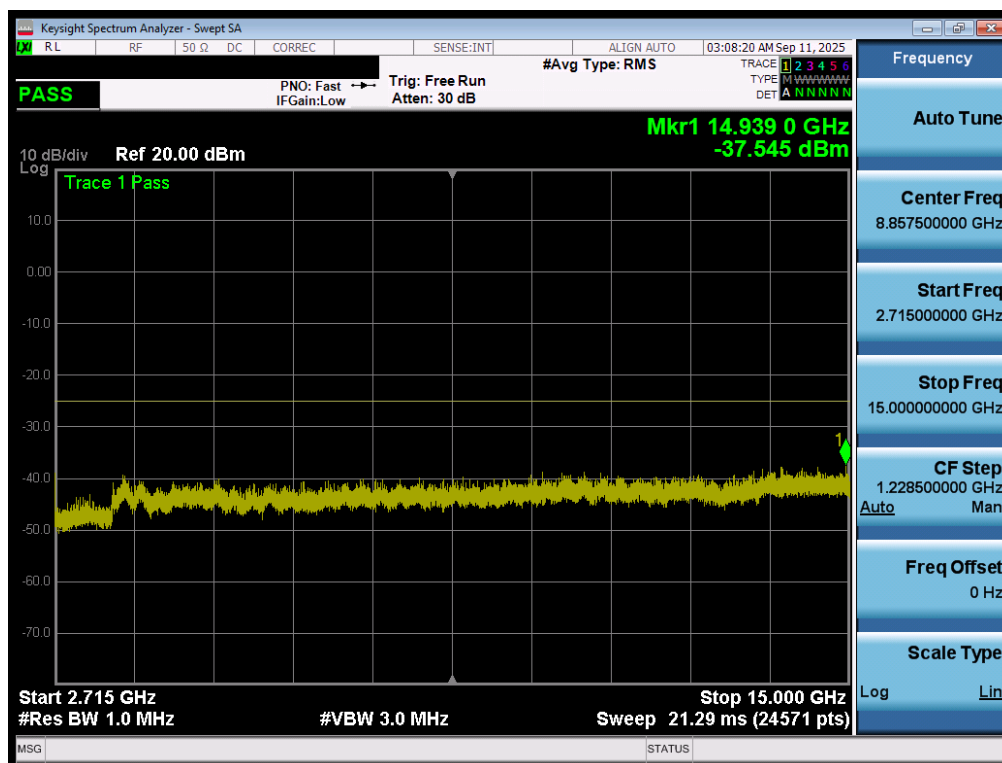
Plot 7-119. Conducted Spurious Plot (LTE Band 41PC2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 92 of 139

LTE Band 41(PC3)– Ant1

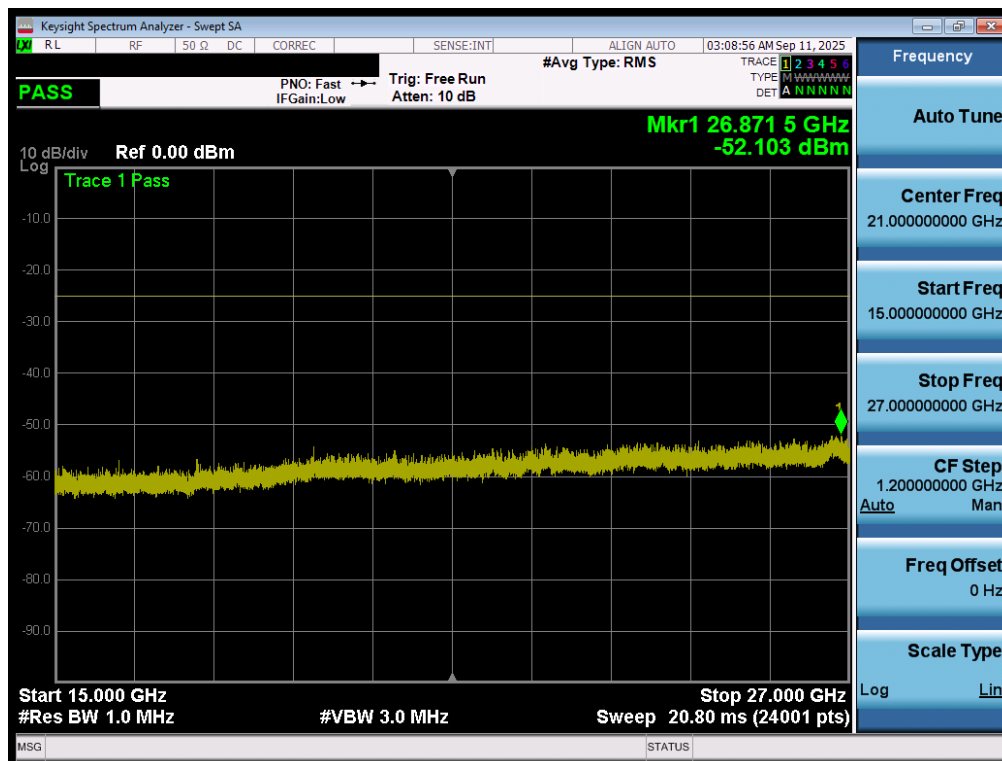


Plot 7-120. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)



Plot 7-121. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 93 of 139



Plot 7-122. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 94 of 139

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	30.0 - 2470.0	-41.24	-25	-16.24
		Low	2690.0 - 15000.0	-37.96	-25	-12.95
		Low	15000.0 - 27000.0	-52.06	-25	-27.06
		Mid	30.0 - 2470.0	-40.89	-25	-15.89
		Mid	2690.0 - 15000.0	-37.21	-25	-12.21
		Mid	15000.0 - 27000.0	-52.07	-25	-27.07
		High	30.0 - 2470.0	-42.15	-25	-17.15
		High	2690.0 - 15000.0	-38.45	-25	-13.45
		High	15000.0 - 27000.0	-51.82	-25	-26.82

Table 7-17. Conducted Emission Test Results – n41 default – Ant 1

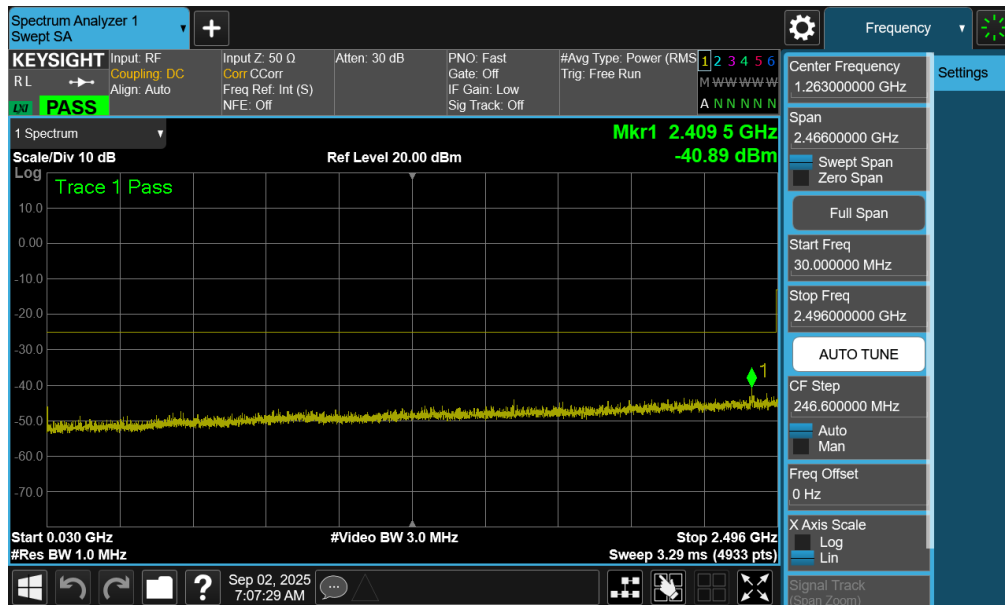
Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	30.0 - 2470.0	-41.77	-25	-16.76
		Low	2690.0 - 15000.0	-38.14	-25	-13.14
		Low	15000.0 - 27000.0	-51.36	-25	-26.36
		Mid	30.0 - 2470.0	-42.49	-25	-17.49
		Mid	2690.0 - 15000.0	-37.90	-25	-12.89
		Mid	15000.0 - 27000.0	-51.44	-25	-26.44
		High	30.0 - 2470.0	-42.45	-25	-17.45
		High	2690.0 - 15000.0	-38.11	-25	-13.11
		High	15000.0 - 27000.0	-51.92	-25	-26.92

Table 7-18. Conducted Emission Test Results – n41 switch – Ant 1

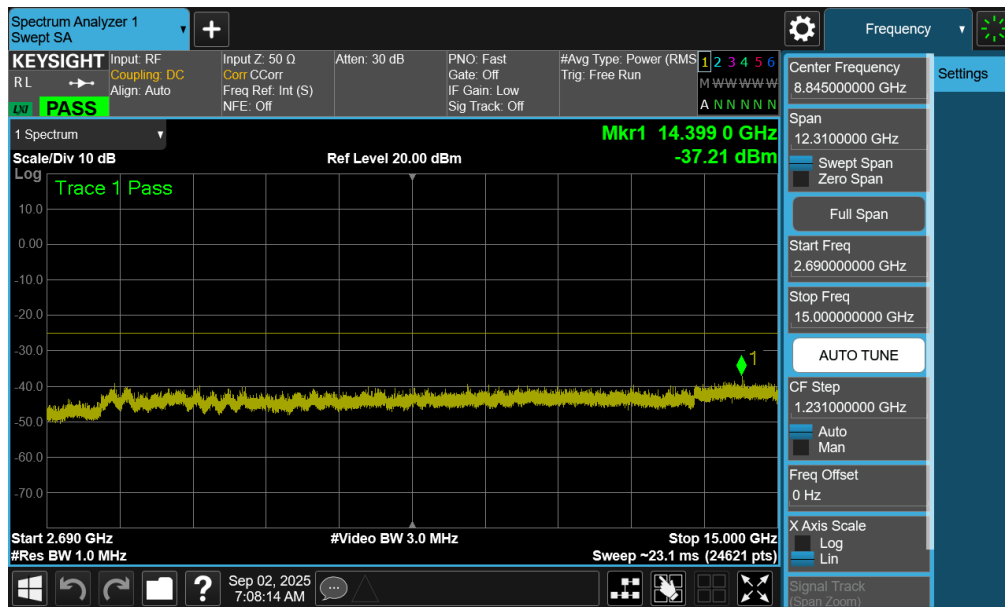
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 95 of 139



NR Band n41 – Main – Ant1

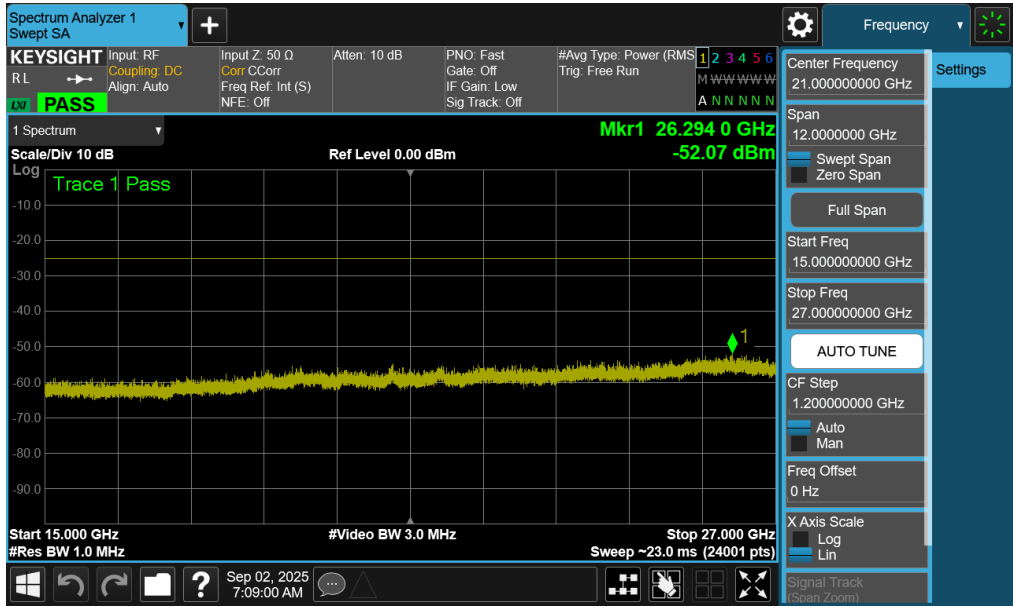


Plot 7-123. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)



Plot 7-124. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

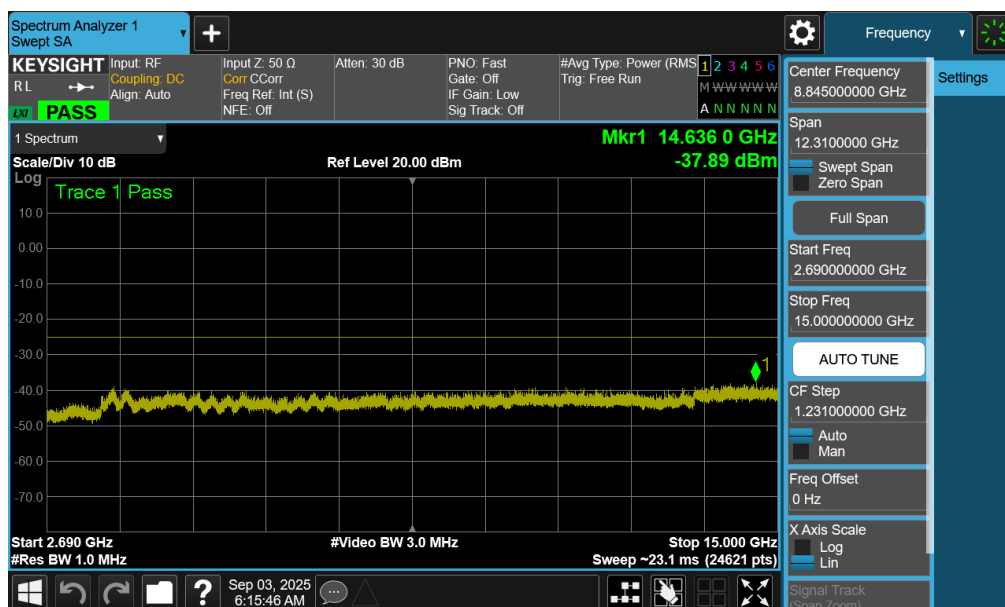
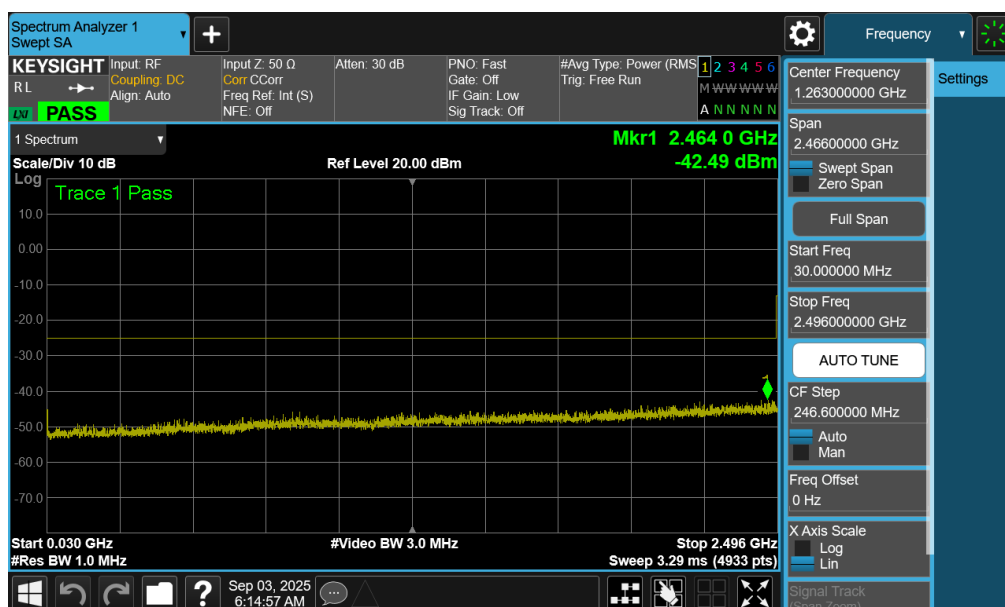
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 96 of 139



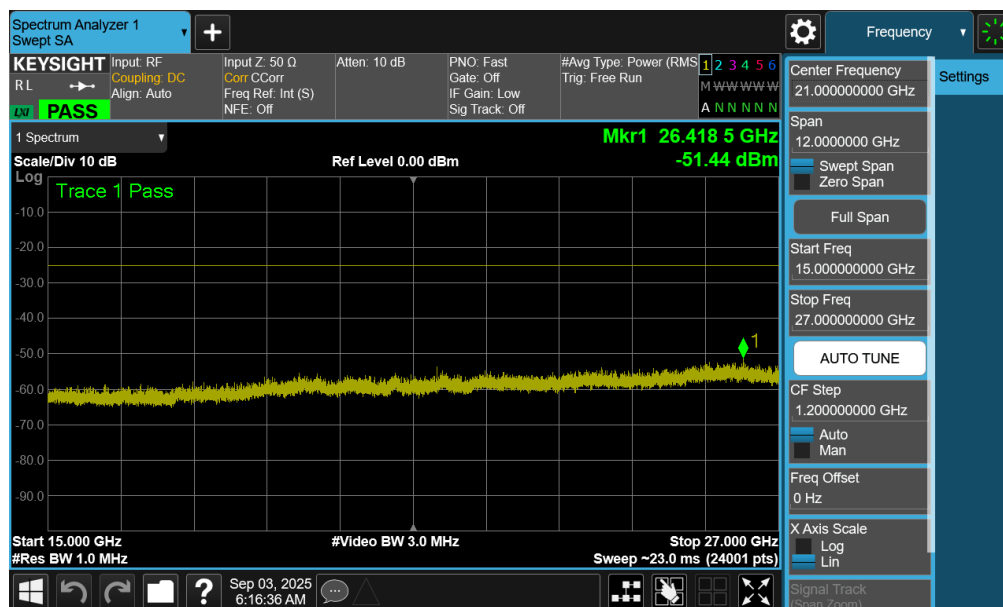
Plot 7-125. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 97 of 139

NR Band n41 – Switch – Ant1



FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 98 of 139



Plot 7-128. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 99 of 139

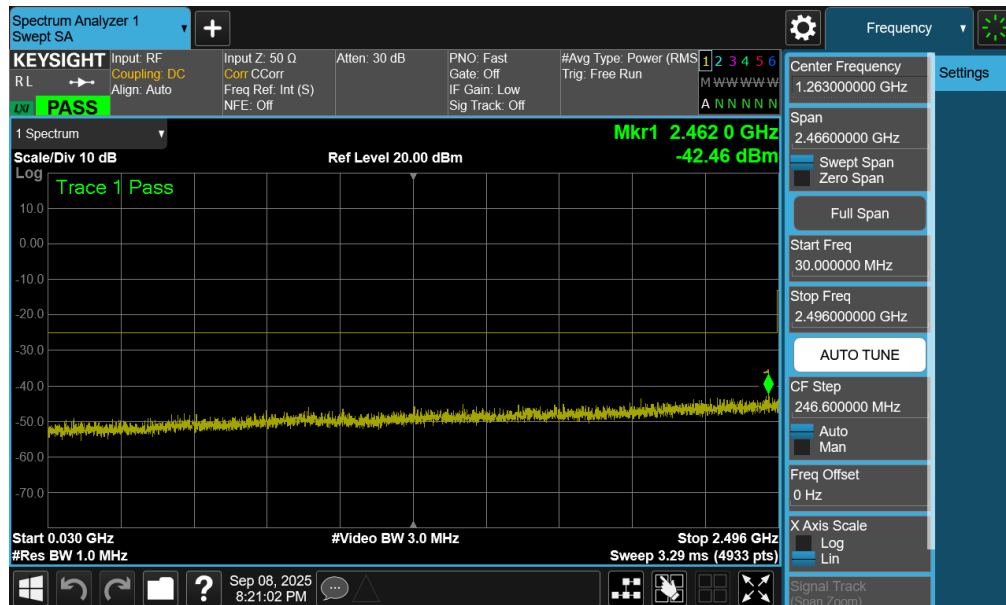
Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC2	20MHz	Low	30.0 - 2475.0	-40.18	-25	-15.18
		Low	2690.0 - 15000.0	-37.84	-25	-12.84
		Low	15000.0 - 27000.0	-51.36	-25	-26.36
		Mid	30.0 - 2500.0	-42.45	-25	-17.44
		Mid	2690.0 - 15000.0	-37.82	-25	-12.82
		Mid	15000.0 - 27000.0	-51.97	-25	-26.97
		High	30.0 - 2500.0	-42.46	-25	-17.46
		High	2690.0 - 15000.0	-37.62	-25	-12.62
		High	15000.0 - 27000.0	-52.52	-25	-27.52
LTE-B41PC3	20MHz	Low	30.0 - 2288.0	-43.09	-25	-18.09
		Low	2365.0 - 15000.0	-37.53	-25	-12.53
		Low	15000.0 - 27000.0	-51.26	-25	-26.26
		Mid	30.0 - 2288.0	-43.22	-25	-18.22
		Mid	2570.0 - 15000.0	-36.51	-25	-11.51
		Mid	15000.0 - 27000.0	-51.68	-25	-26.68
		High	30.0 - 2288.0	-43.26	-25	-18.26
		High	2570.0 - 15000.0	-37.67	-25	-12.67
		High	15000.0 - 27000.0	-51.72	-25	-26.72

Table 7-19. Conducted Emission Test Results – LTE – Ant 2

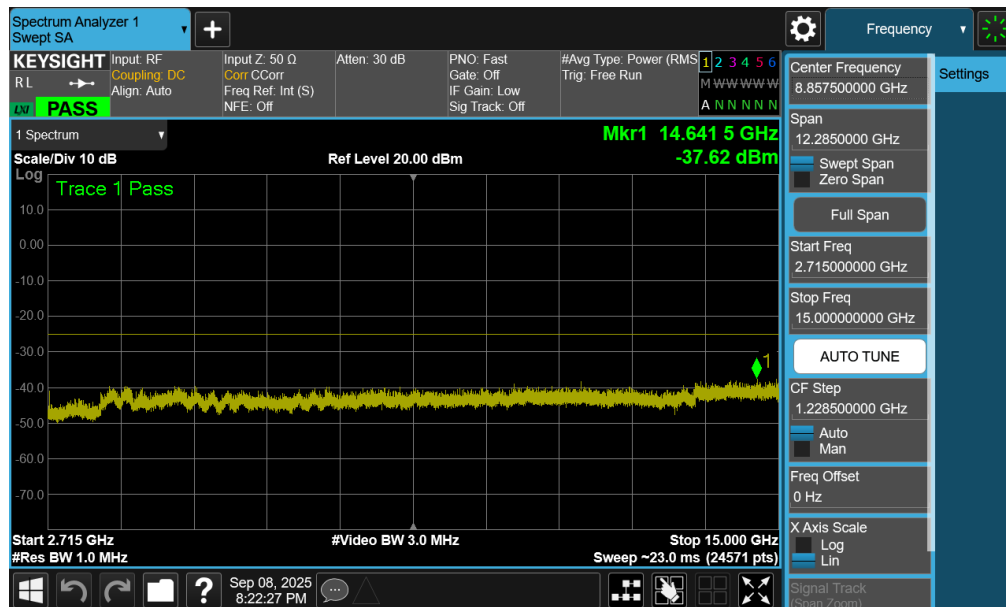
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 100 of 139



LTE Band 41PC2 – Ant2

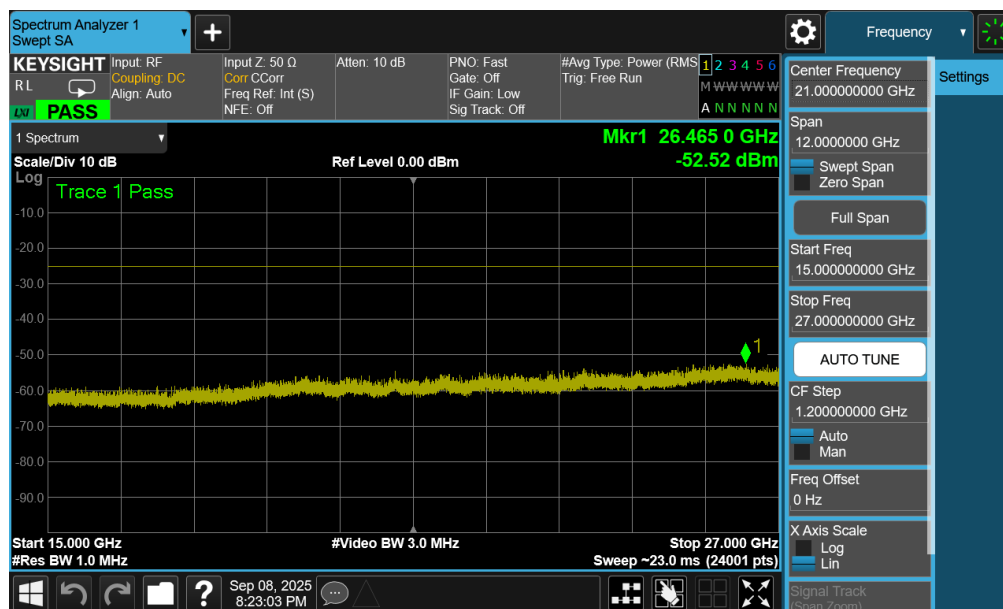


Plot 7-129. Conducted Spurious Plot (LTE Band 41PC2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2)



Plot 7-130. Conducted Spurious Plot (LTE Band 41PC2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2)

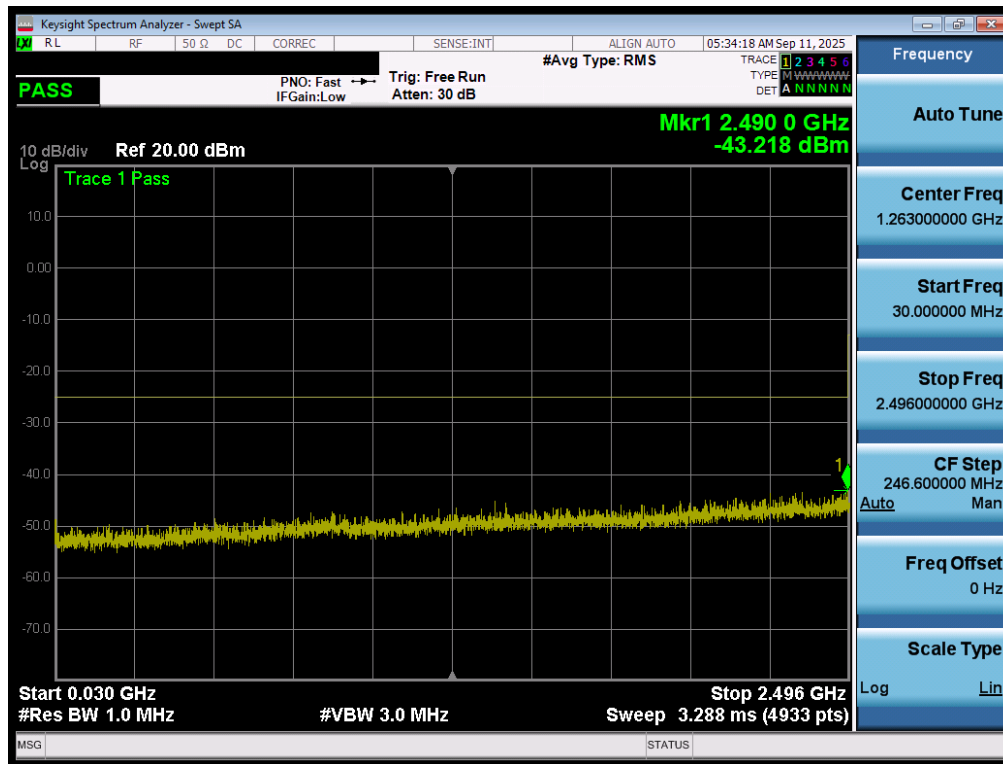
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 101 of 139



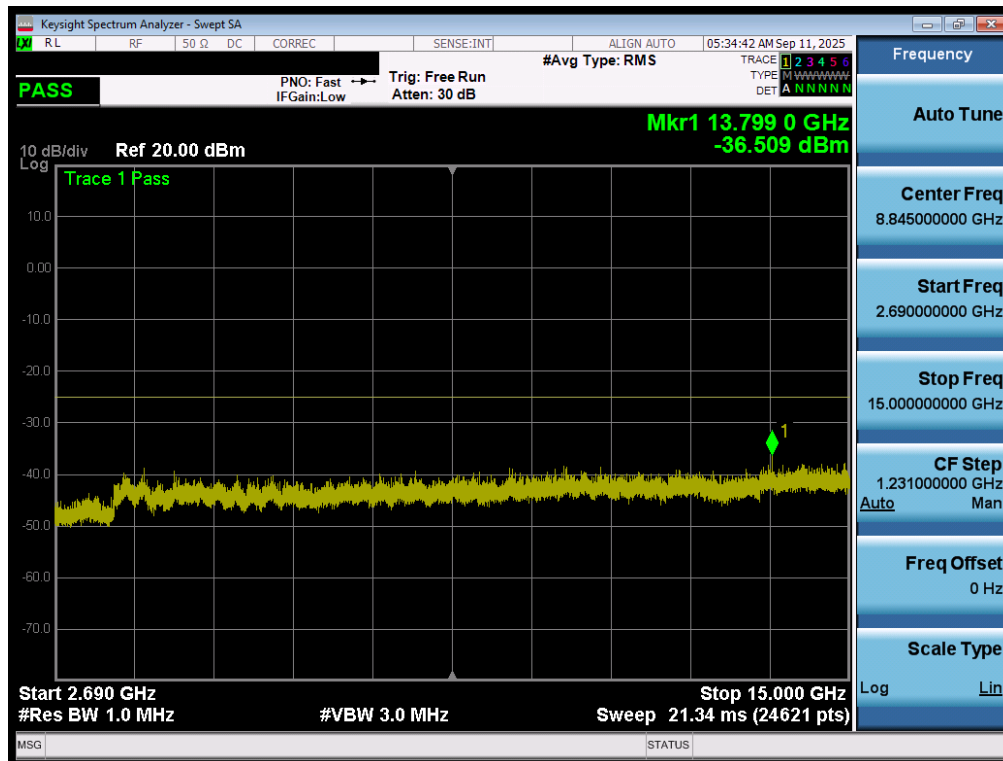
Plot 7-131. Conducted Spurious Plot (LTE Band 41PC2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 102 of 139

LTE Band 41(PC3) – Ant2

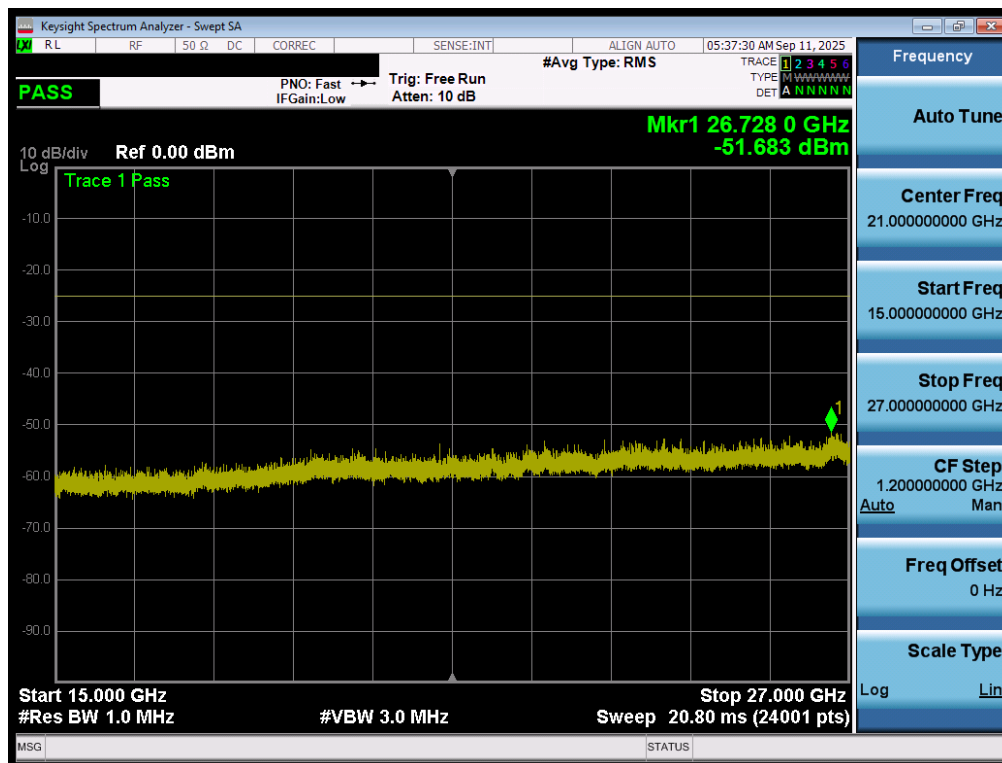


Plot 7-132. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)



Plot 7-133. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 103 of 139



Plot 7-134. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 104 of 139

7.5 Band Edge Emissions at Antenna Terminal

Test Overview

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

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

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.3

Test Settings

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

Test Setup

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

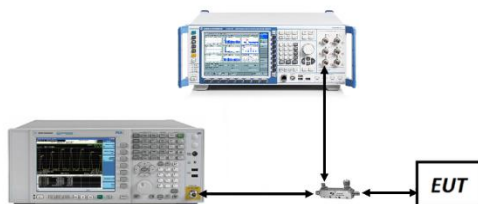


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 105 of 139

Test Notes

1. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
3. Only the highest target power SRS-1 antenna for n41 default (Antenna F) and n41 switching (Antenna B) are reported for the overall n41 SRS worst case.

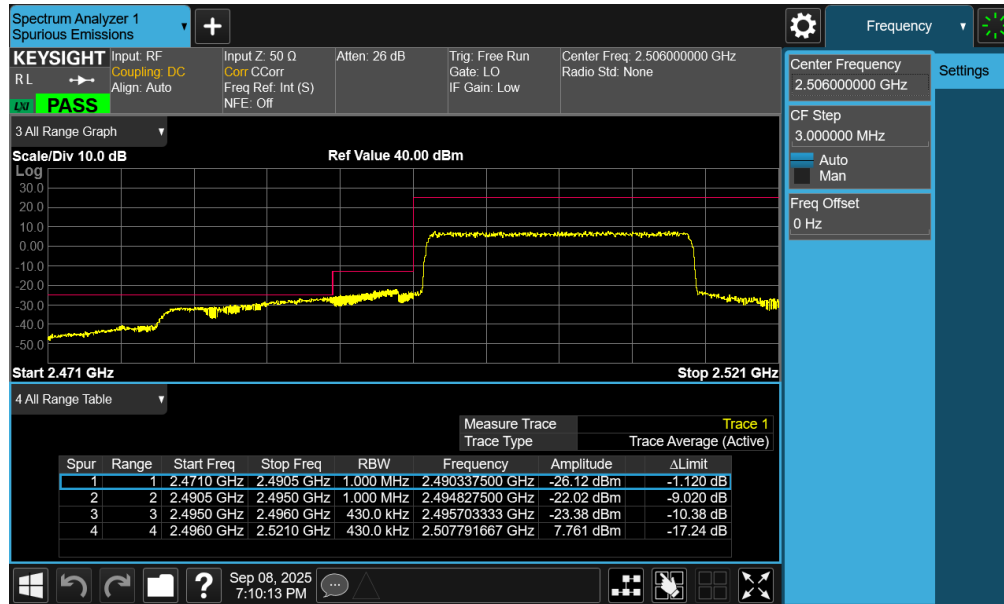
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 106 of 139

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC2	20MHz	Low	Band Edge	-26.12	-25	-1.12
		High	Band Edge	-25.67	-10	-15.67
	15MHz	Low	Band Edge	-31.66	-25	-6.66
		High	Band Edge	-36.87	-25	-11.87
	10MHz	Low	Band Edge	-29.95	-25	-4.95
		High	Band Edge	-37.30	-25	-12.30
	5MHz	Low	Band Edge	-14.22	-13	-1.22
		High	Band Edge	-35.89	-25	-10.89
LTE-B41PC3	20MHz	Low	Band Edge	-26.72	-25	-1.72
		High	Band Edge	-39.91	-25	-14.91
	15MHz	Low	Band Edge	-29.81	-25	-4.81
		High	Band Edge	-38.50	-25	-13.50
	10MHz	Low	Band Edge	-29.57	-25	-4.57
		High	Band Edge	-36.43	-25	-11.43
	5MHz	Low	Band Edge	-19.48	-13	-6.48
		High	Band Edge	-37.08	-25	-12.08

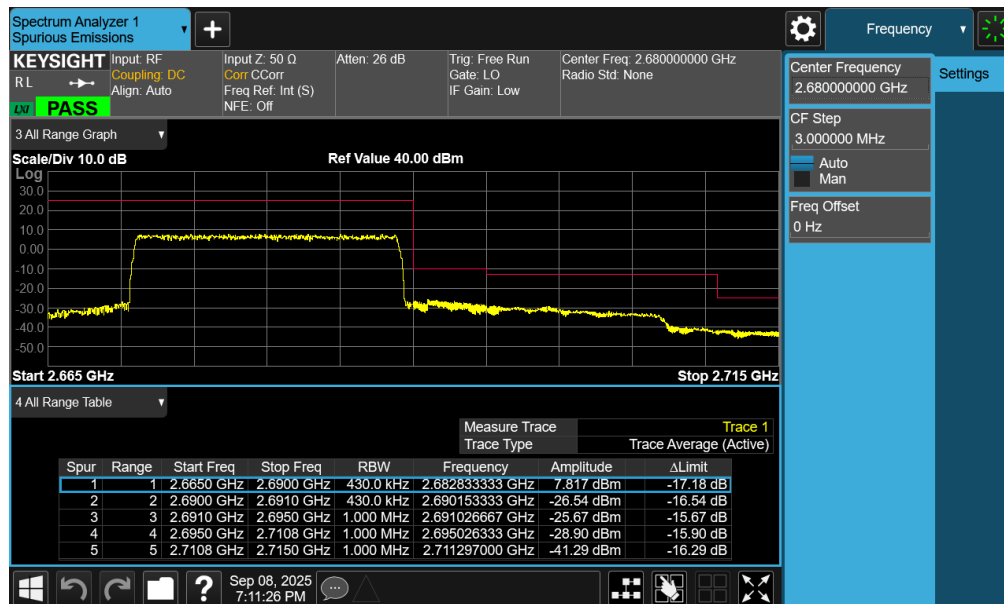
Table 7-20. Conducted Band Edge Test Results – LTE – Ant 1

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 107 of 139

LTE Band 41(PC2) – Ant1



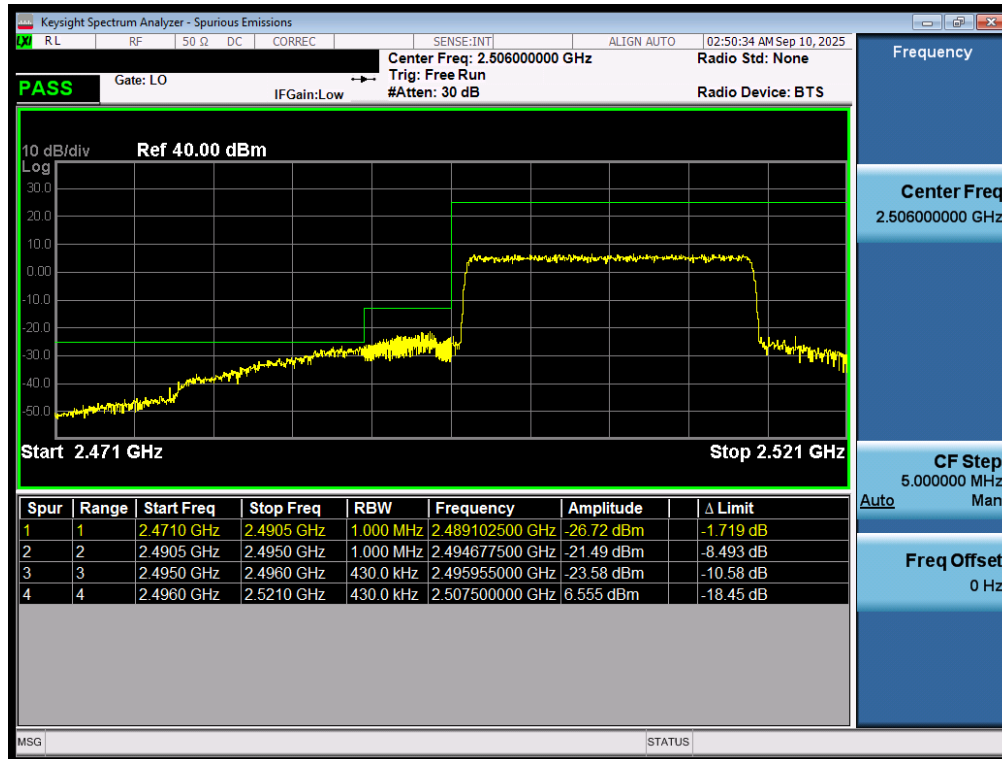
Plot 7-135. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant1)



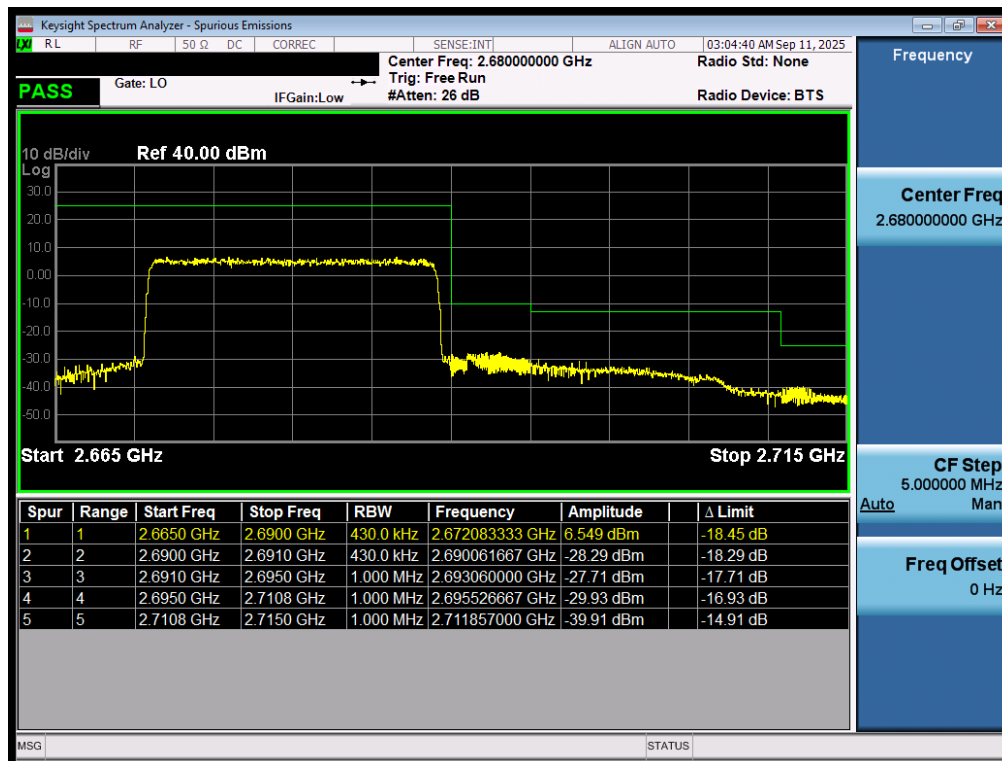
Plot 7-136. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 108 of 139

LTE Band 41(PC3) – Ant1



Plot 7-137. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant1)



Plot 7-138. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 109 of 139

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	Band Edge	-29.26	-25	-4.26
		High	Band Edge	-27.01	-10	-17.01
	90MHz	Low	Band Edge	-28.43	-25	-3.43
		High	Band Edge	-29.44	-10	-19.44
	80MHz	Low	Band Edge	-28.68	-25	-3.68
		High	Band Edge	-30.43	-10	-20.43
	70MHz	Low	Band Edge	-26.43	-25	-1.43
		High	Band Edge	-32.01	-10	-22.01
	60MHz	Low	Band Edge	-36.21	-25	-11.21
		High	Band Edge	-24.83	-10	-14.83
	50MHz	Low	Band Edge	-35.57	-25	-10.57
		High	Band Edge	-31.65	-10	-21.65
	45MHz	Low	Band Edge	-38.12	-25	-13.12
		High	Band Edge	-42.57	-25	-17.57
	40MHz	Low	Band Edge	-35.34	-25	-10.34
		High	Band Edge	-44.49	-25	-19.49
	35MHz	Low	Band Edge	-37.77	-25	-12.77
		High	Band Edge	-44.51	-25	-19.51
	30MHz	Low	Band Edge	-36.52	-25	-11.52
		High	Band Edge	-45.95	-25	-20.95
	25MHz	Low	Band Edge	-38.09	-25	-13.09
		High	Band Edge	-41.86	-25	-16.86
	20MHz	Low	Band Edge	-35.04	-25	-10.04
		High	Band Edge	-42.03	-25	-17.03
	15MHz	Low	Band Edge	-34.76	-25	-9.76
		High	Band Edge	-41.71	-25	-16.71
	10MHz	Low	Band Edge	-35.47	-25	-10.47
		High	Band Edge	-30.32	-25	-20.32

Table 7-21. Conducted Band Edge Test Results – n41 default – Ant 1

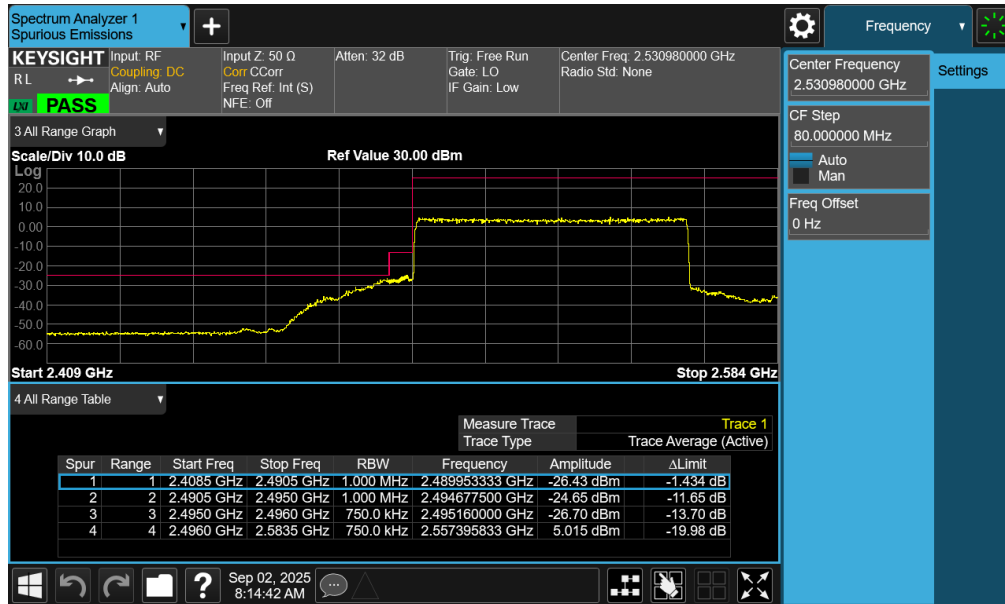
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 110 of 139

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	Band Edge	-27.80	-25	-2.80
		High	Band Edge	-27.89	-10	-17.89
	90MHz	Low	Band Edge	-27.82	-25	-2.82
		High	Band Edge	-29.71	-10	-19.71
	80MHz	Low	Band Edge	-27.63	-25	-2.63
		High	Band Edge	-34.12	-13	-21.12
	70MHz	Low	Band Edge	-26.24	-25	-1.24
		High	Band Edge	-31.57	-10	-21.57
	60MHz	Low	Band Edge	-37.65	-25	-12.65
		High	Band Edge	-24.94	-10	-14.94
	50MHz	Low	Band Edge	-33.97	-25	-8.97
		High	Band Edge	-31.77	-10	-21.77
	45MHz	Low	Band Edge	-36.35	-25	-11.35
		High	Band Edge	-44.50	-25	-19.50
	40MHz	Low	Band Edge	-34.79	-25	-9.79
		High	Band Edge	-46.73	-25	-21.73
	35MHz	Low	Band Edge	-37.01	-25	-12.01
		High	Band Edge	-43.84	-25	-18.84
	30MHz	Low	Band Edge	-37.24	-25	-12.24
		High	Band Edge	-46.22	-25	-21.22
	25MHz	Low	Band Edge	-35.32	-25	-10.32
		High	Band Edge	-40.67	-25	-15.67
	20MHz	Low	Band Edge	-34.61	-25	-9.61
		High	Band Edge	-42.56	-25	-17.56
	15MHz	Low	Band Edge	-32.41	-25	-7.41
		High	Band Edge	-43.61	-25	-18.61
	10MHz	Low	Band Edge	-34.71	-25	-9.71
		High	Band Edge	-32.06	-10	-22.06

Table 7-22. Conducted Band Edge Test Results – n41 switch – Ant 1

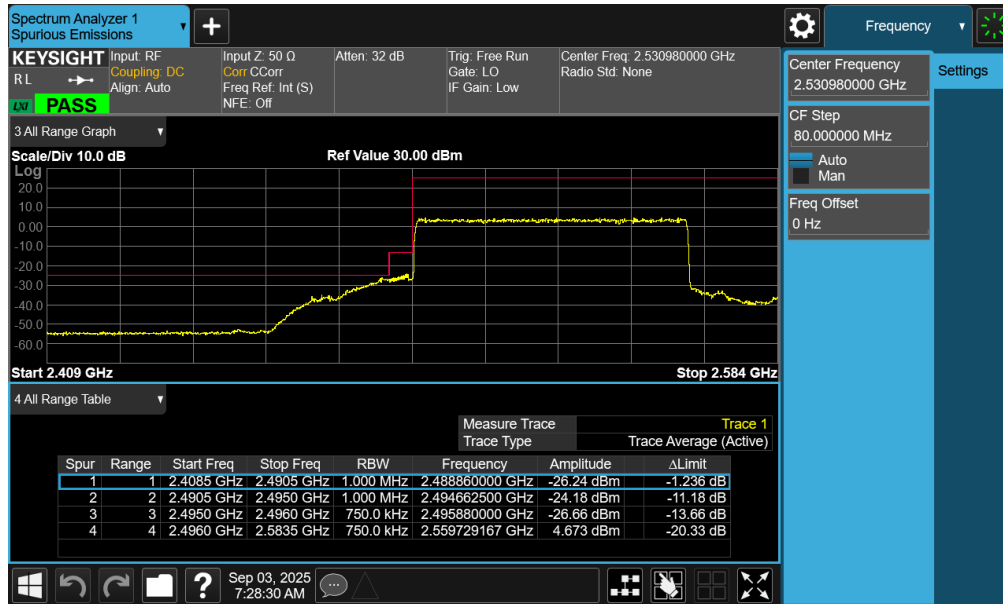
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 111 of 139

NR Band n41 – Main – Ant1

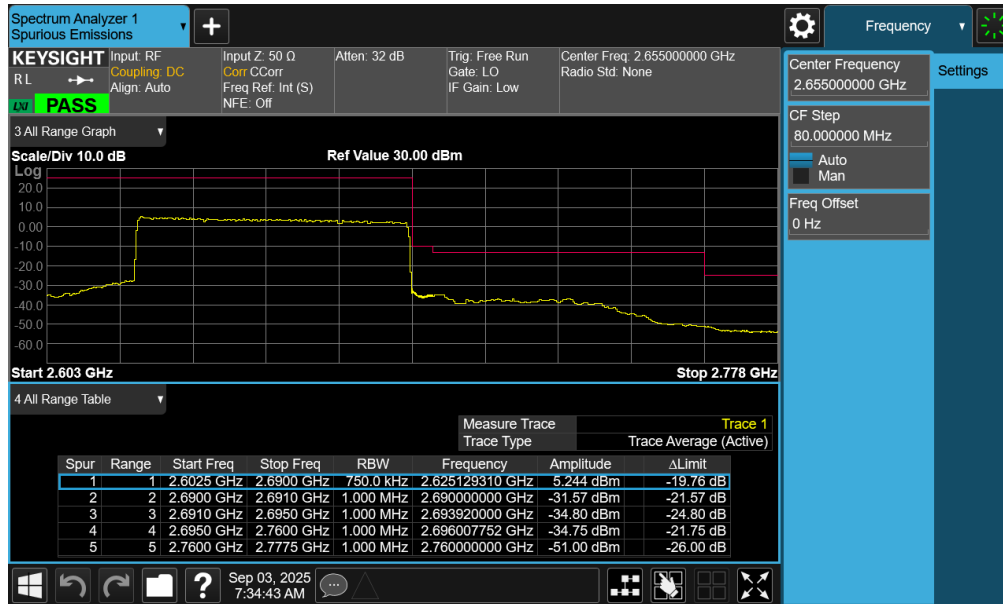


FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 112 of 139

NR Band n41 – Switch – Ant1



Plot 7-141. Lower ACP Plot (NR Band n41PC2 - 70MHz CP-OFDM-QPSK – Full RB - Ant1)



Plot 7-142. Upper ACP Plot (NR Band n41PC2 - 70MHz CP-OFDM-QPSK – Full RB - Ant1)

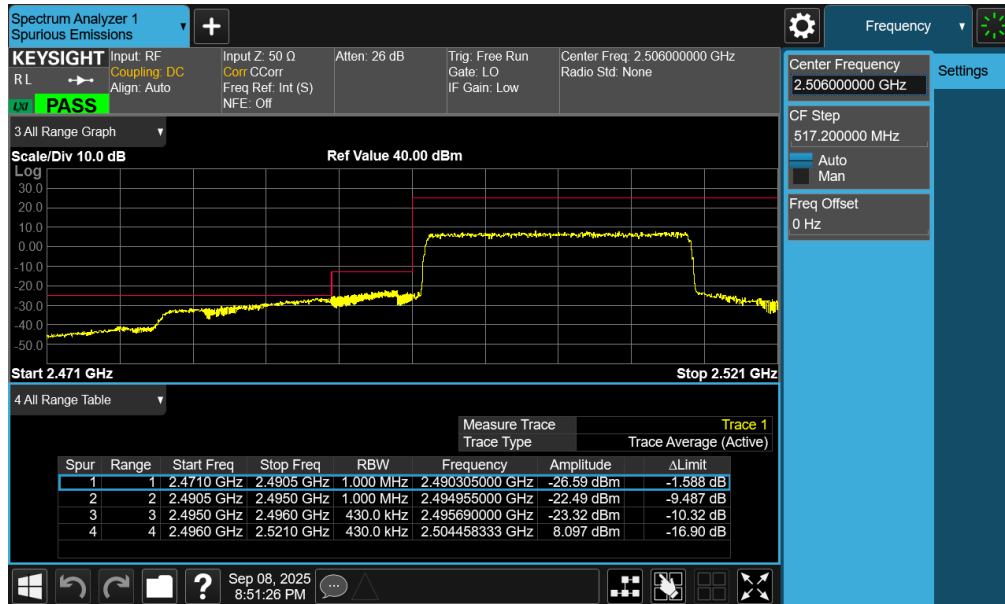
FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 113 of 139

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC2	20MHz	Low	Band Edge	-26.59	-25	-1.59
		High	Band Edge	-28.38	-13	-15.38
	15MHz	Low	Band Edge	-30.84	-25	-5.84
		High	Band Edge	-36.48	-25	-11.48
	10MHz	Low	Band Edge	-29.25	-25	-4.25
		High	Band Edge	-37.23	-25	-12.23
	5MHz	Low	Band Edge	-19.58	-13	-6.58
		High	Band Edge	-36.85	-25	-11.85
LTE-B41PC3	20MHz	Low	Band Edge	-32.20	-25	-7.20
		High	Band Edge	-40.86	-25	-15.86
	15MHz	Low	Band Edge	-32.97	-25	-7.97
		High	Band Edge	-38.56	-25	-13.56
	10MHz	Low	Band Edge	-36.53	-25	-11.53
		High	Band Edge	-39.04	-25	-14.04
	5MHz	Low	Band Edge	-37.09	-25	-12.09
		High	Band Edge	-37.61	-25	-12.61

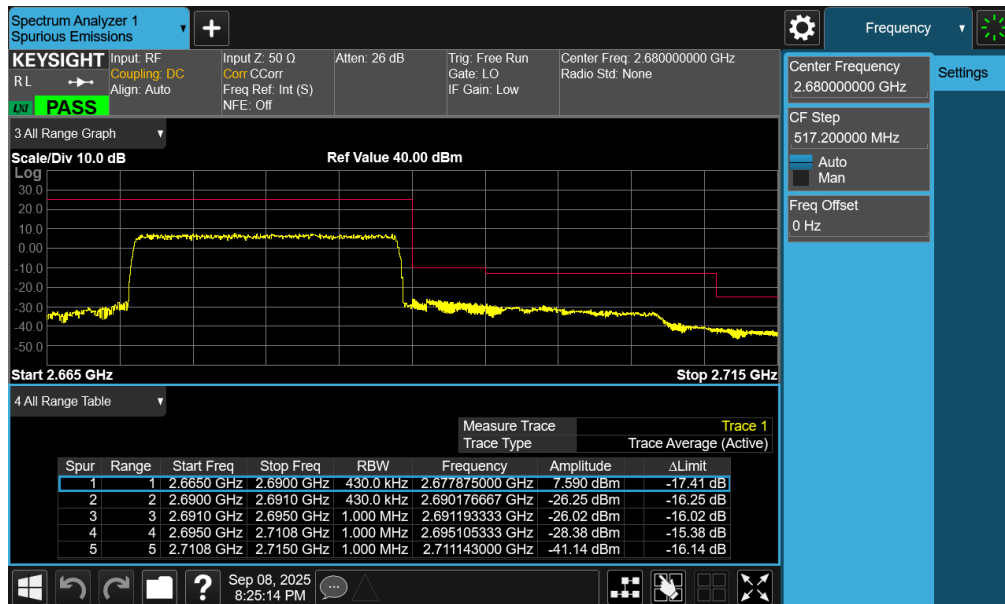
Table 7-23. Conducted Band Edge Test Results – LTE – Ant 2

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC2) – Ant2



Plot 7-143. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant2)



Plot 7-144. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 115 of 139