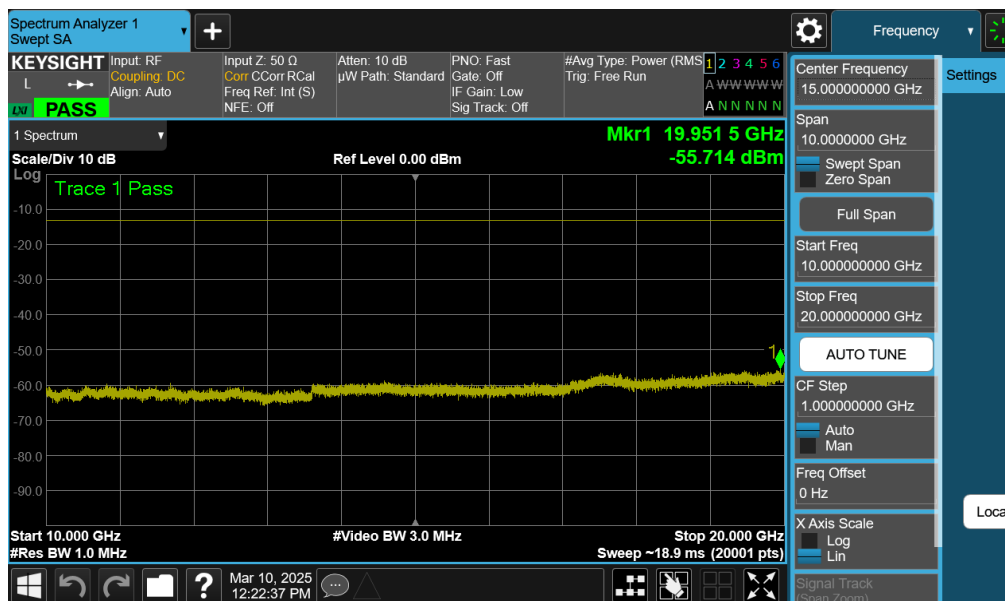
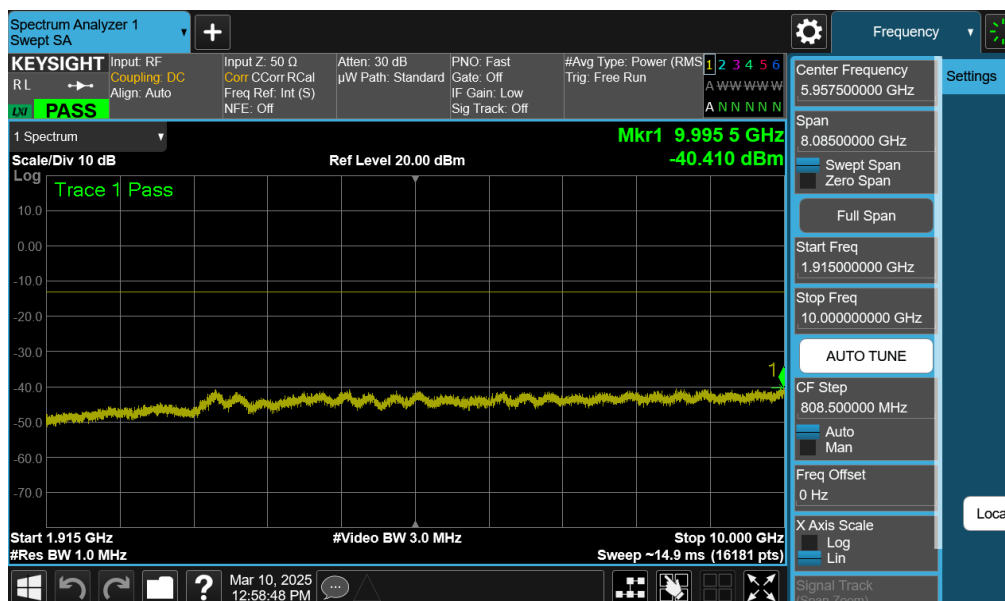


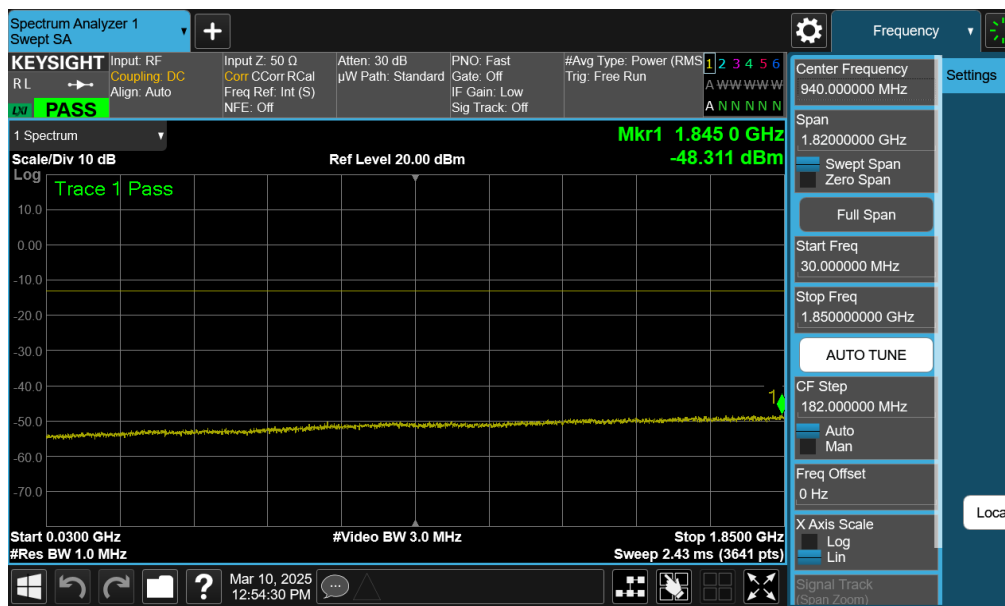
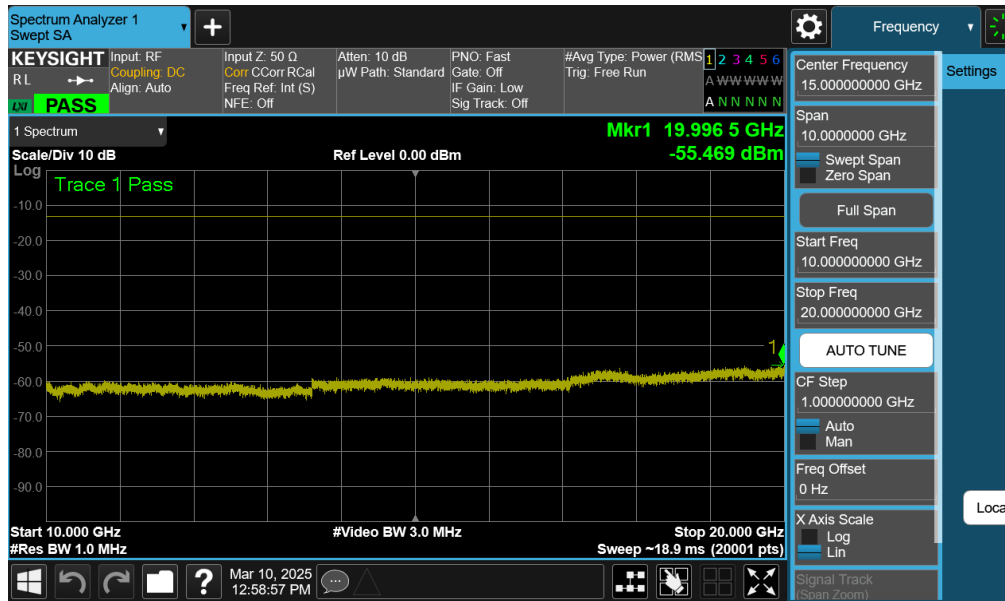


FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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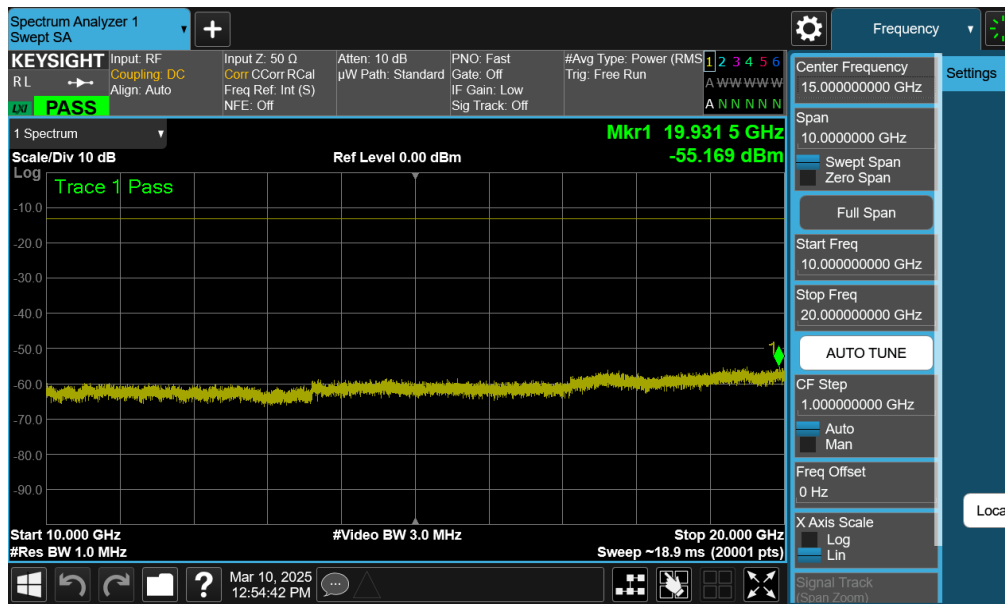
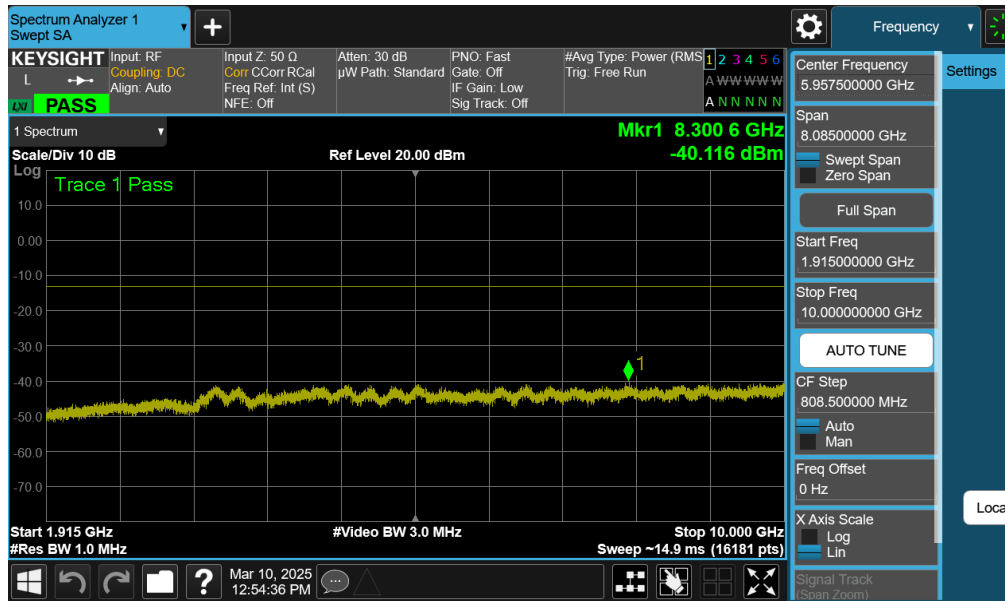
LTE Band 25/2 – Ant1



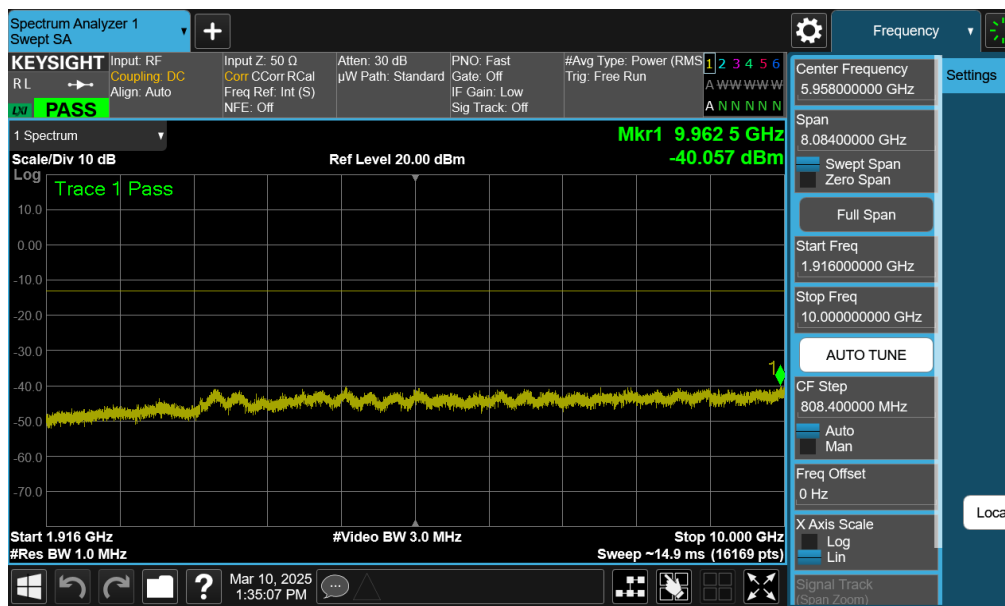
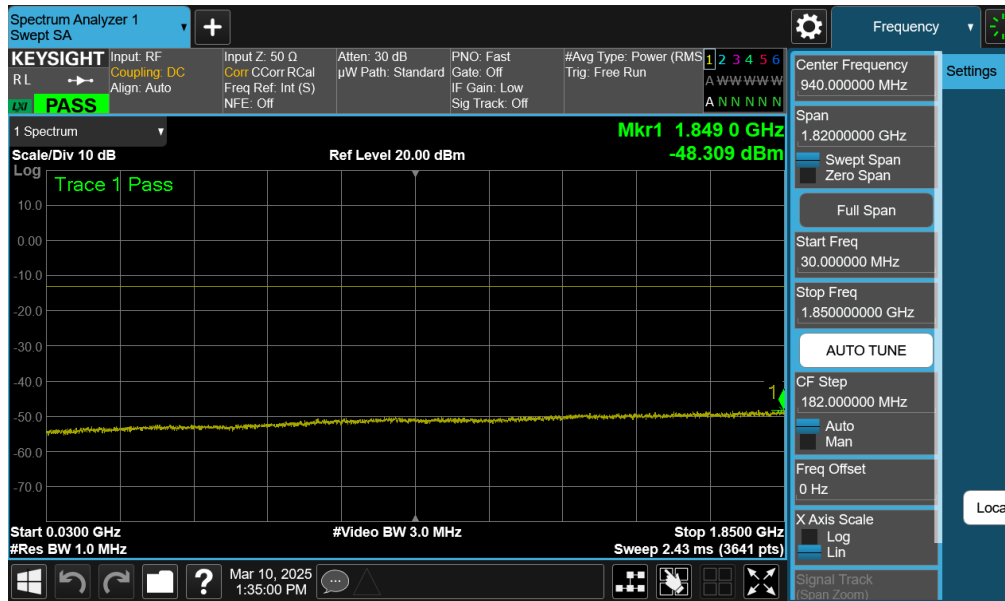
FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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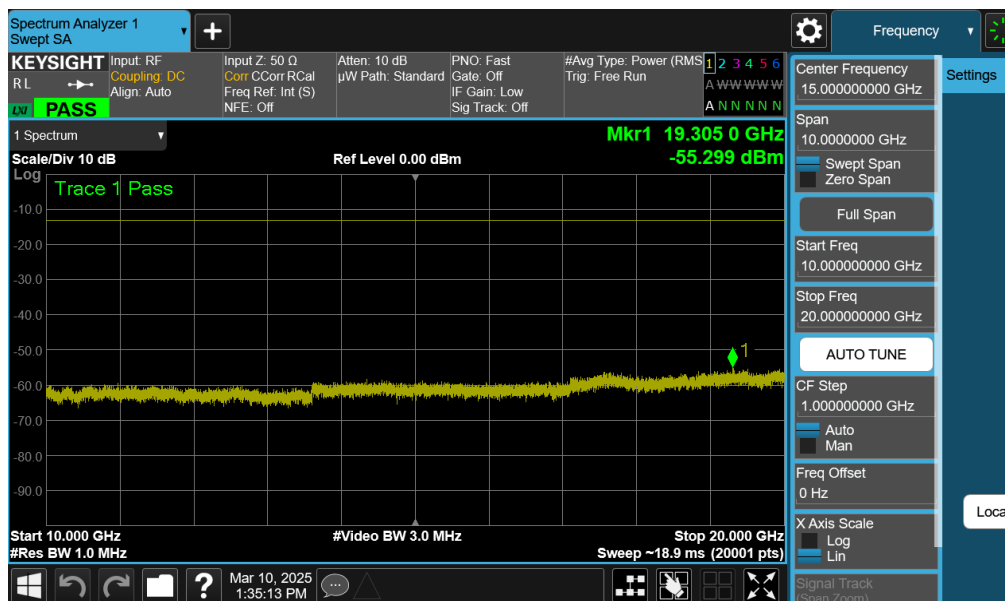
FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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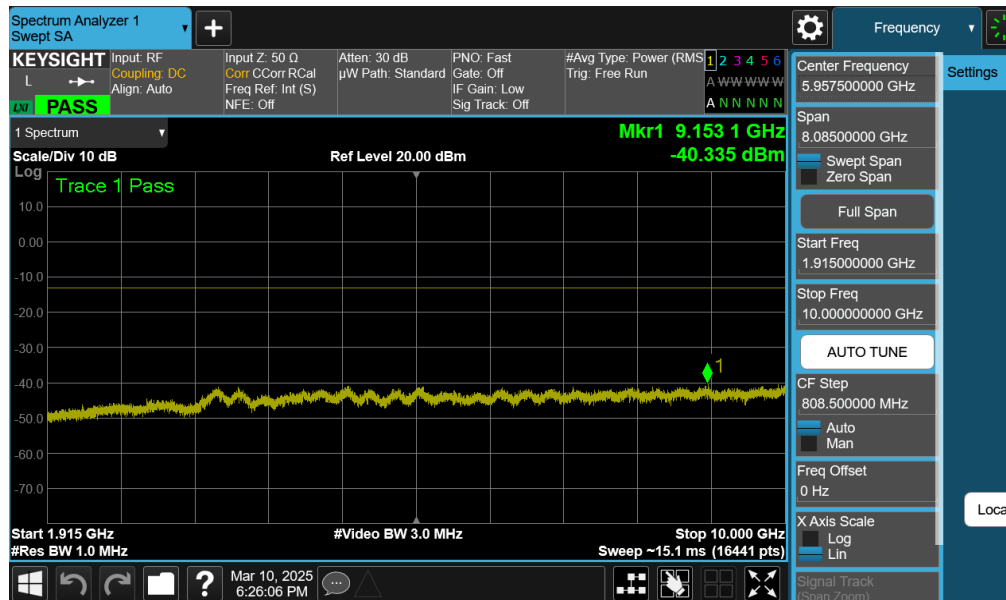
Plot 7-102. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - 1RB - High Channel - Ant1)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2 – Ant1

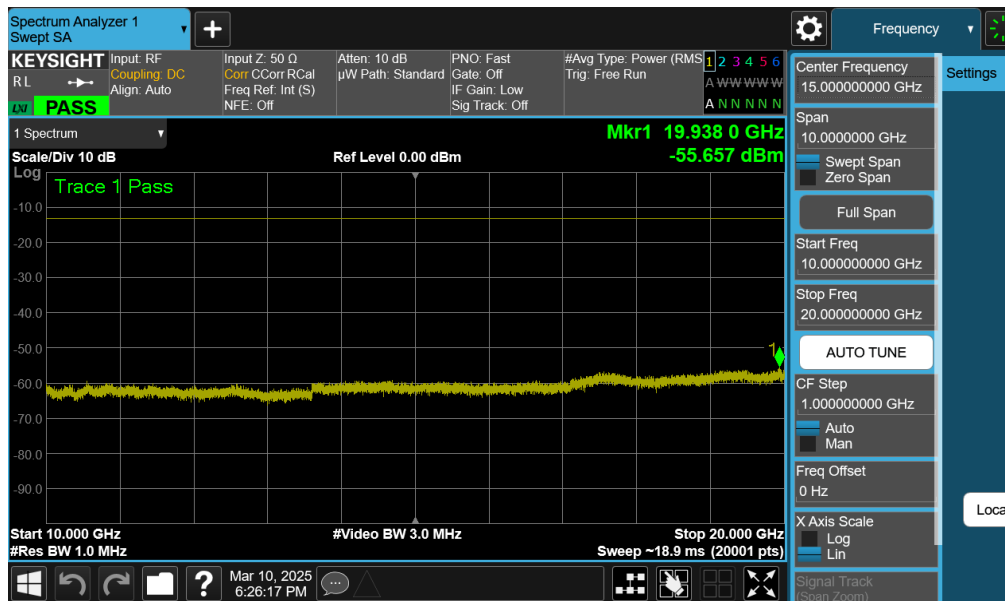


Plot 7-103. Conducted Spurious Plot (NR Band n25/2 -40.0MHz - 1RB - Low Channel - Ant1)

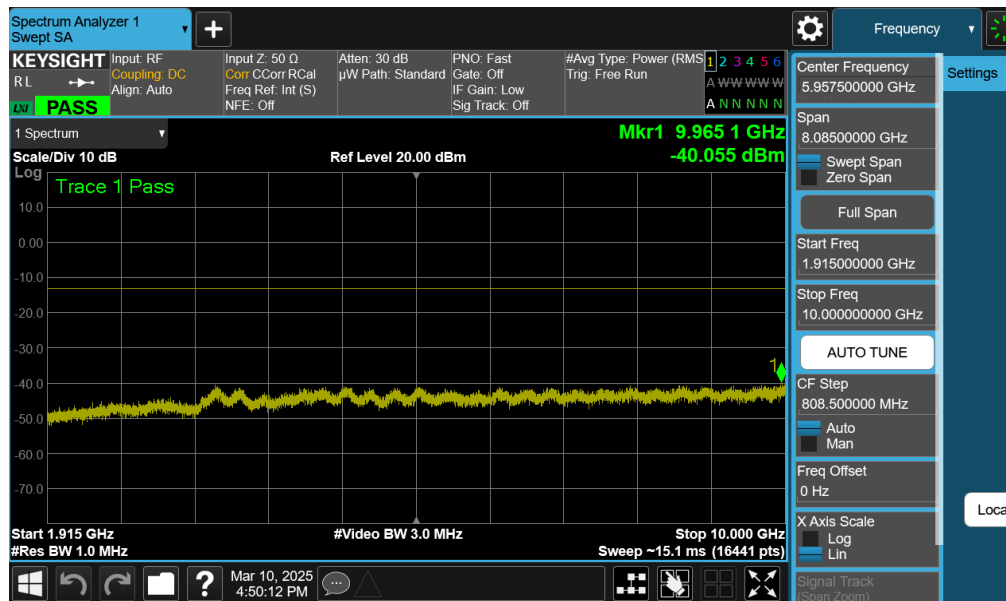


Plot 7-104. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Low Channel - Ant1)

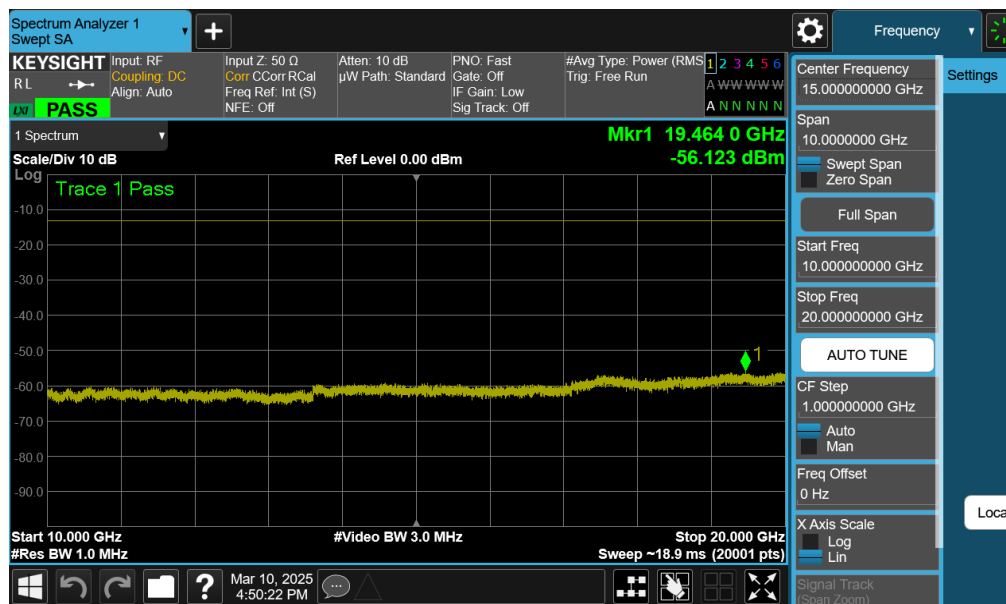
FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-107. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Mid Channel - Ant1)

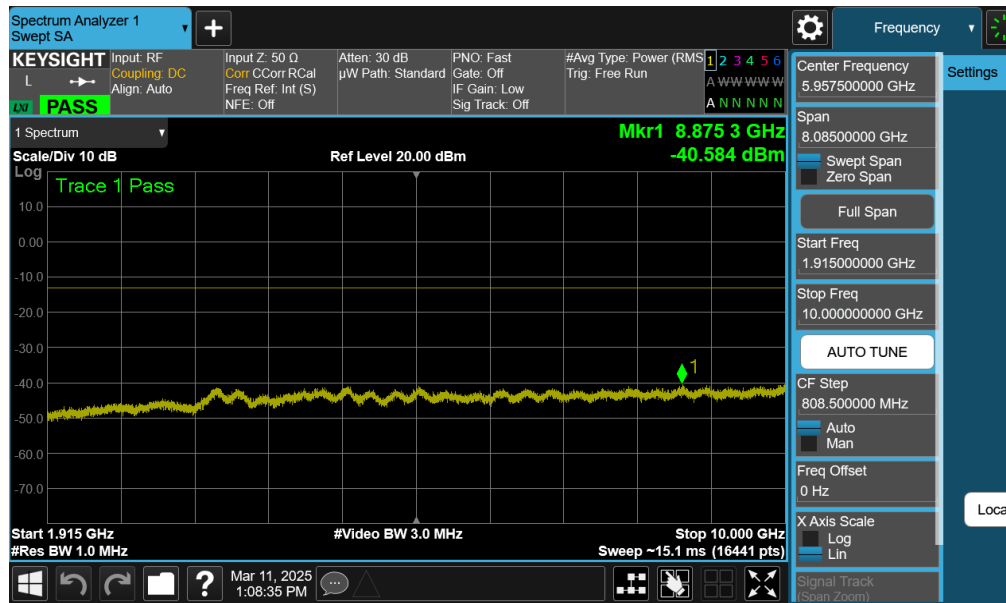


Plot 7-108. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Mid Channel - Ant1)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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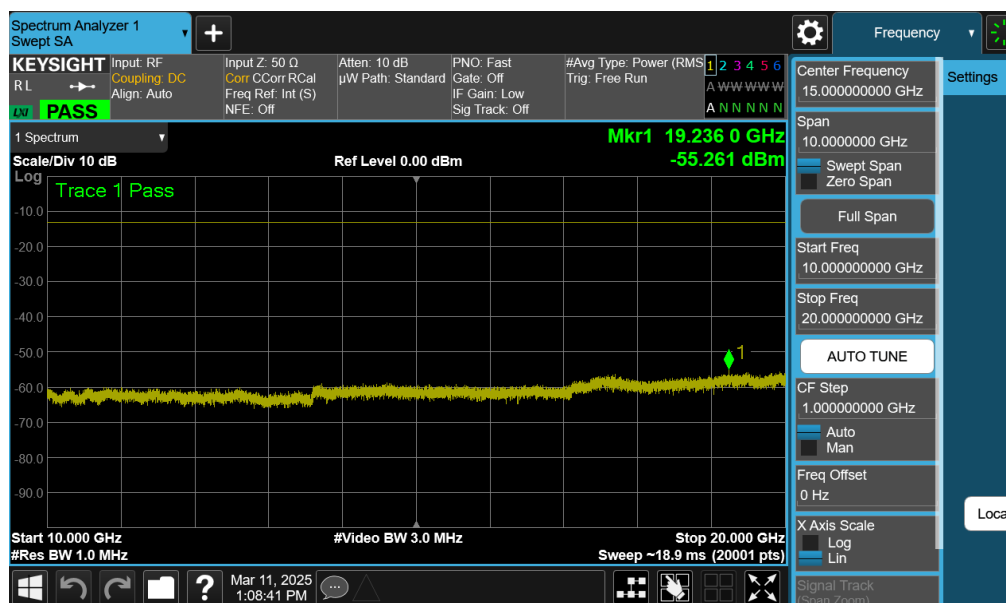


Plot 7-109. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - High Channel - Ant1)



Plot 7-110. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - High Channel - Ant1)

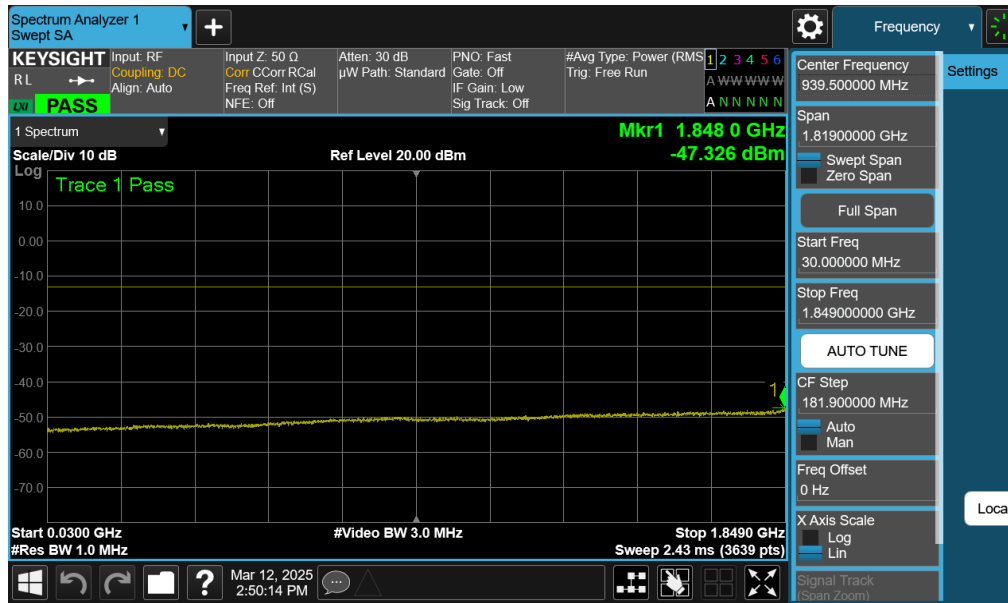
FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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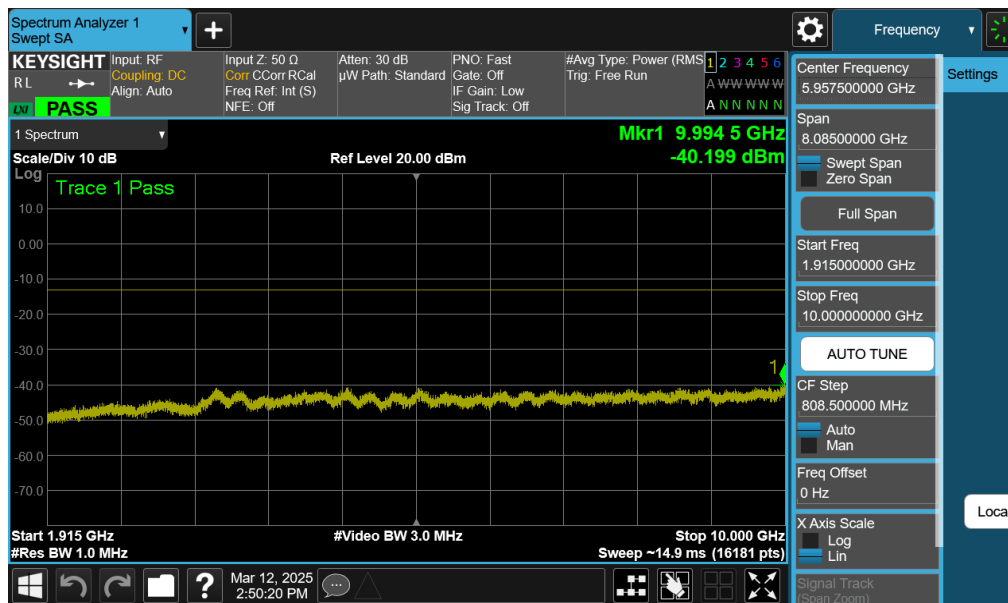
Plot 7-111. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - High Channel - Ant1)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 25/2 – Ant2

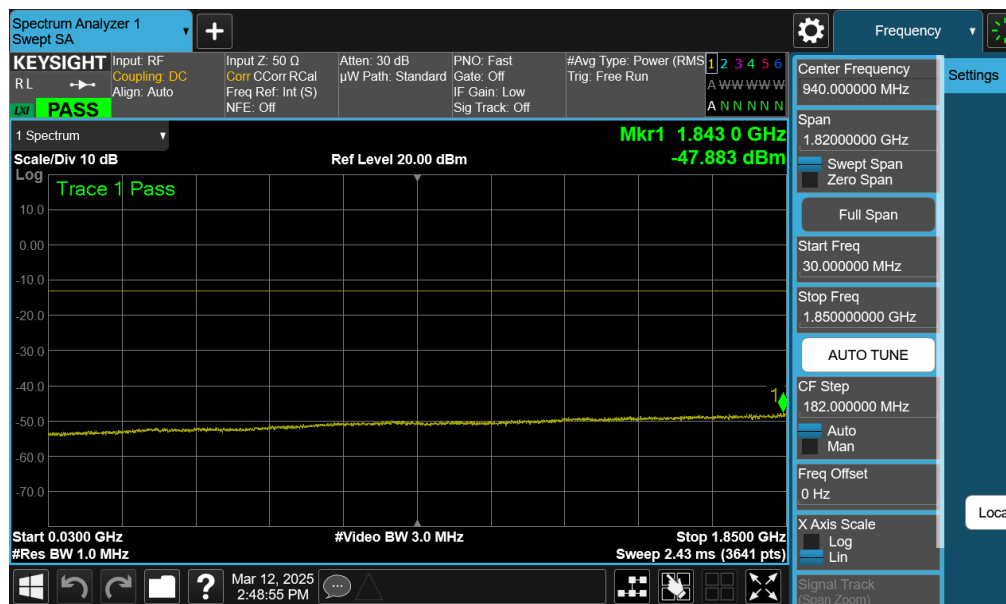
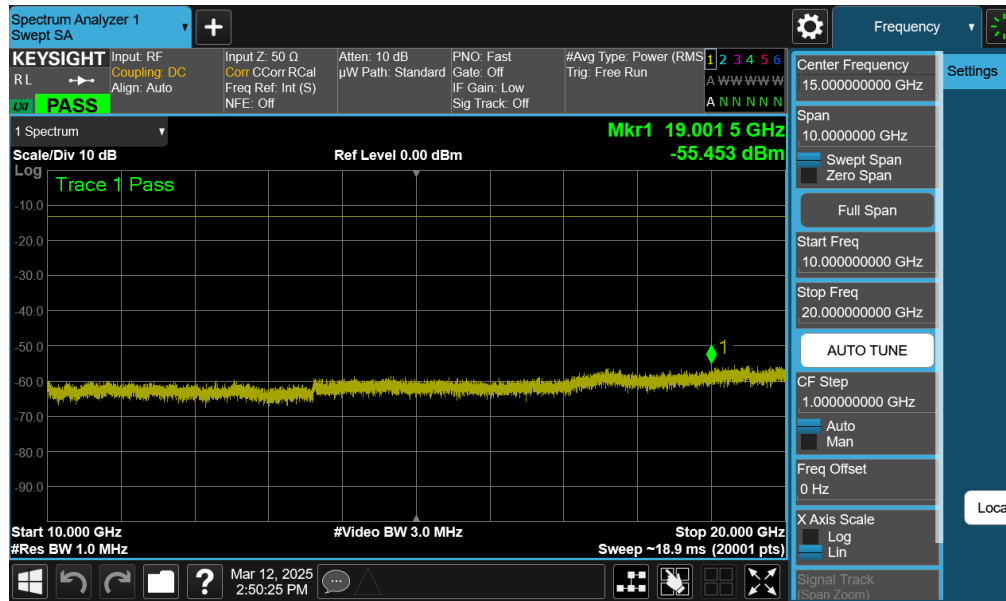


Plot 7-112. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - 1RB - Low Channel - Ant2)

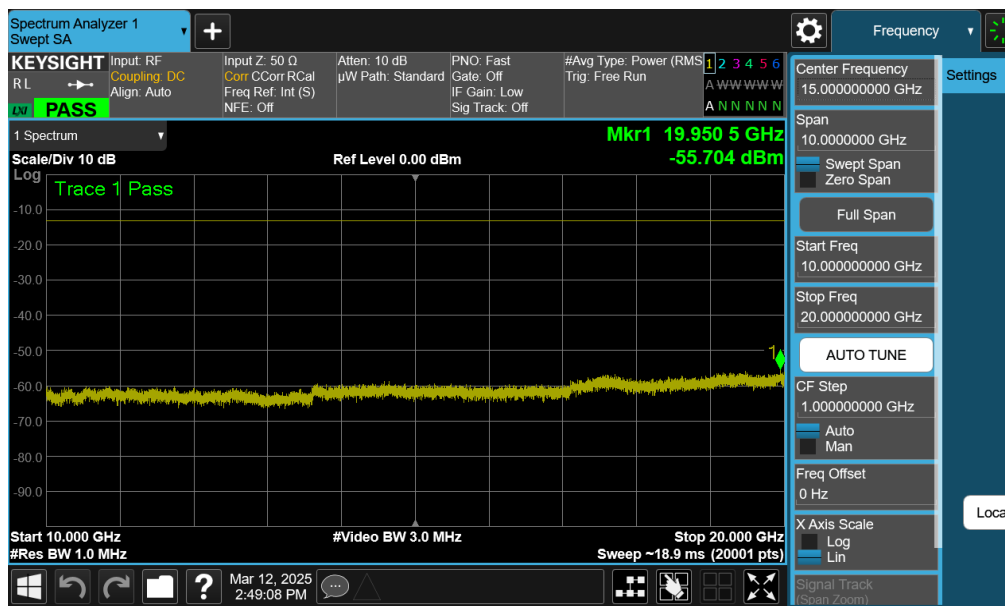
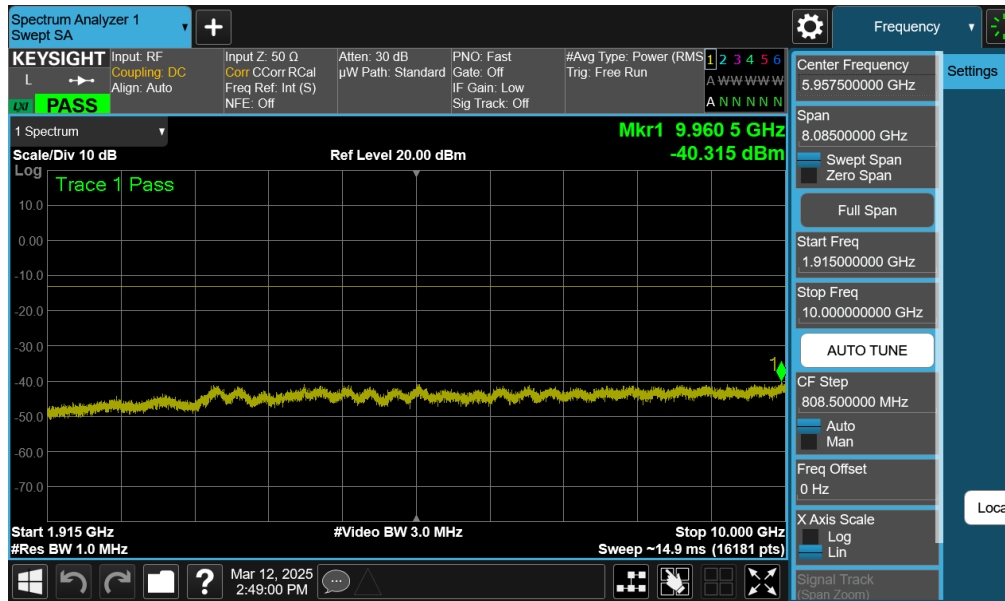


Plot 7-113. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - 1RB - Low Channel - Ant2)

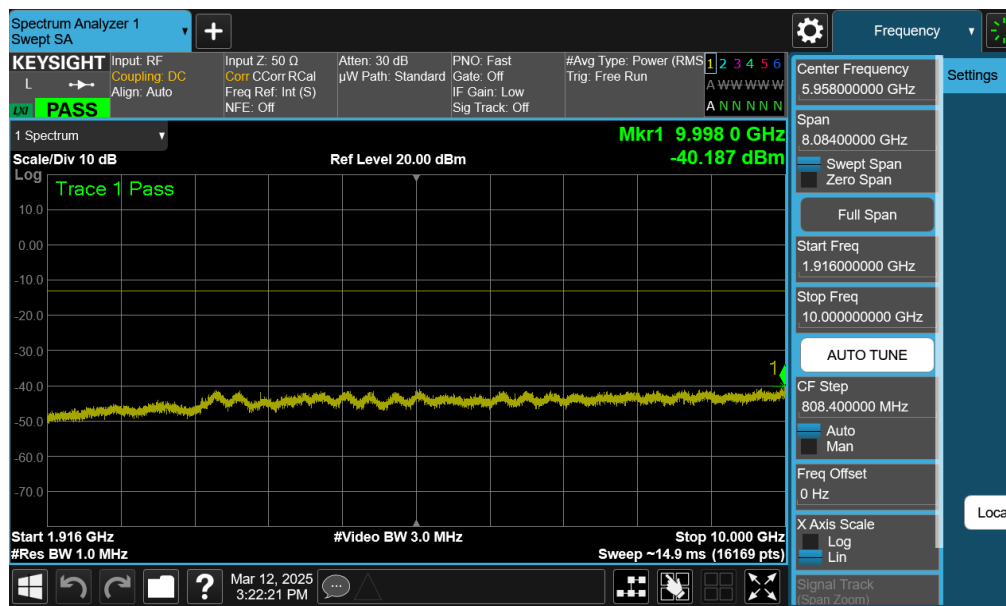
FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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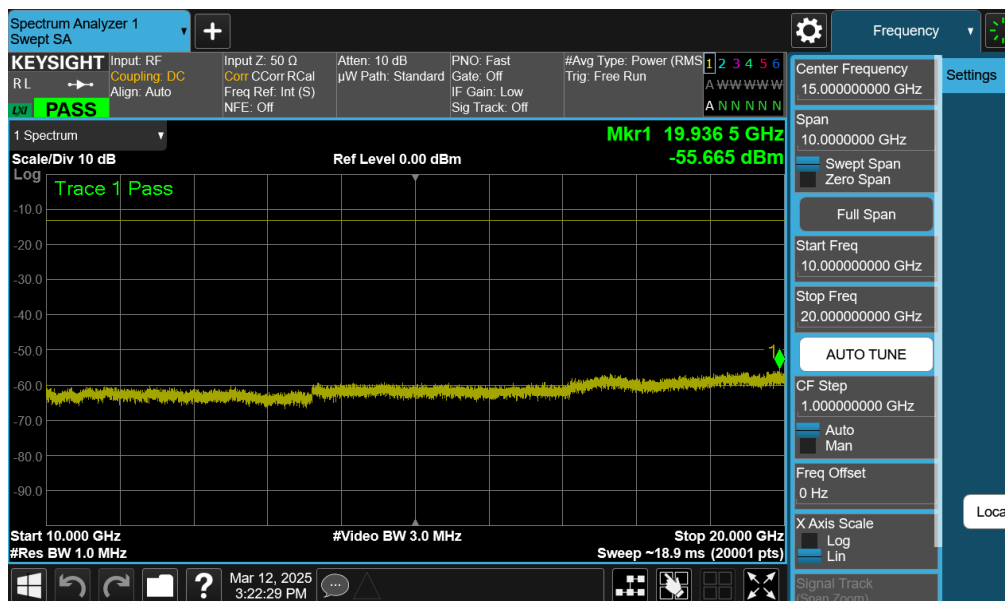
FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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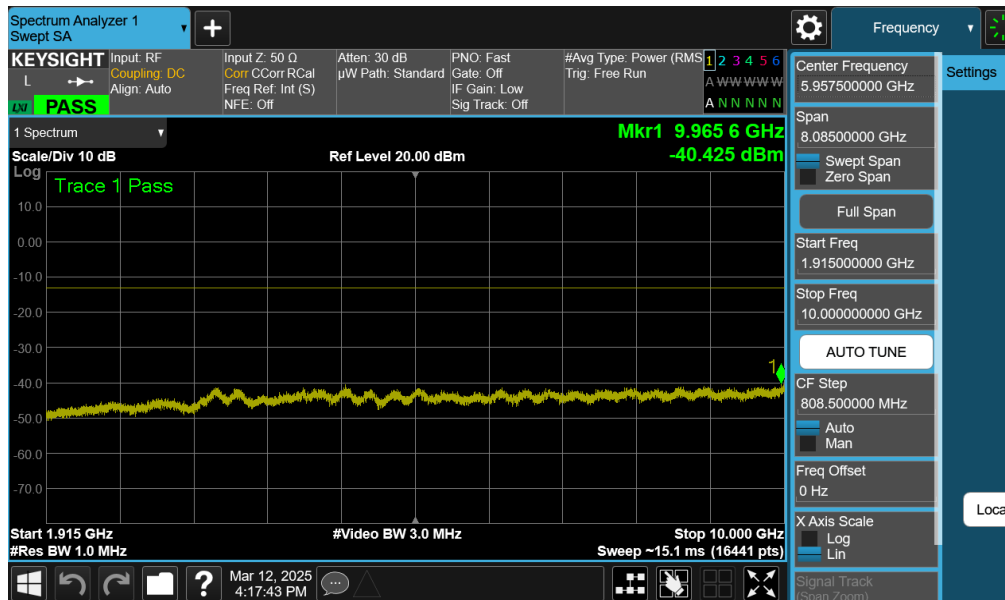
Plot 7-120. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - 1RB - High Channel - Ant2)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2 – Ant2

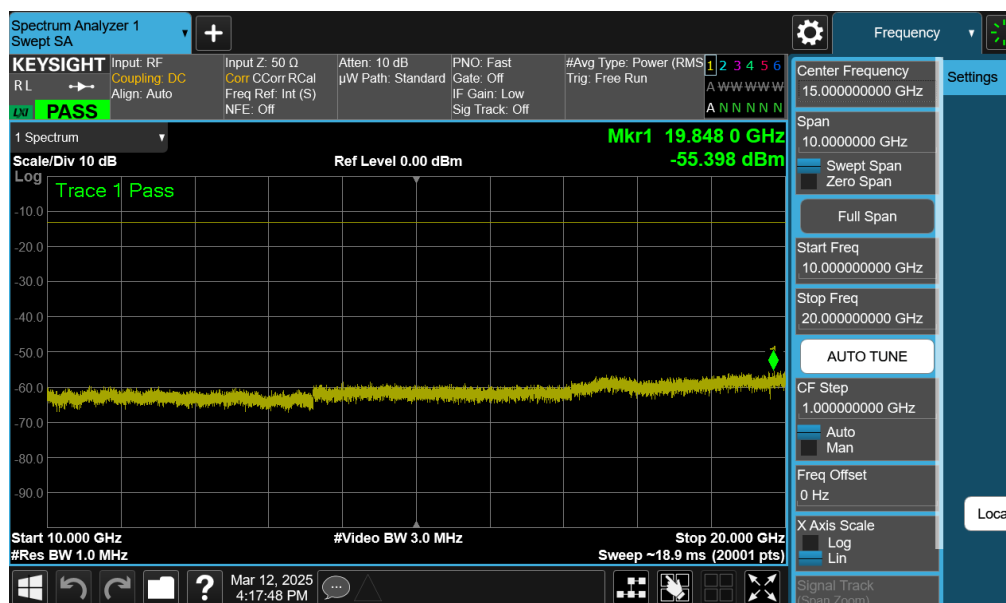


Plot 7-121. Conducted Spurious Plot (NR Band n25/2 -40.0MHz - 1RB - Low Channel - Ant2)



Plot 7-122. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Low Channel - Ant2)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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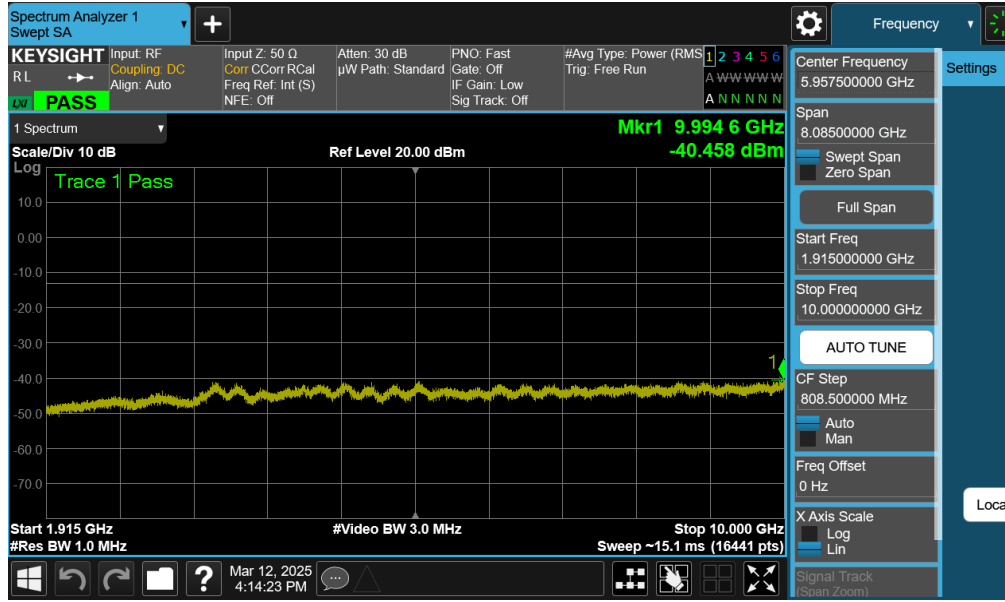


Plot 7-123. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Low Channel - Ant2)

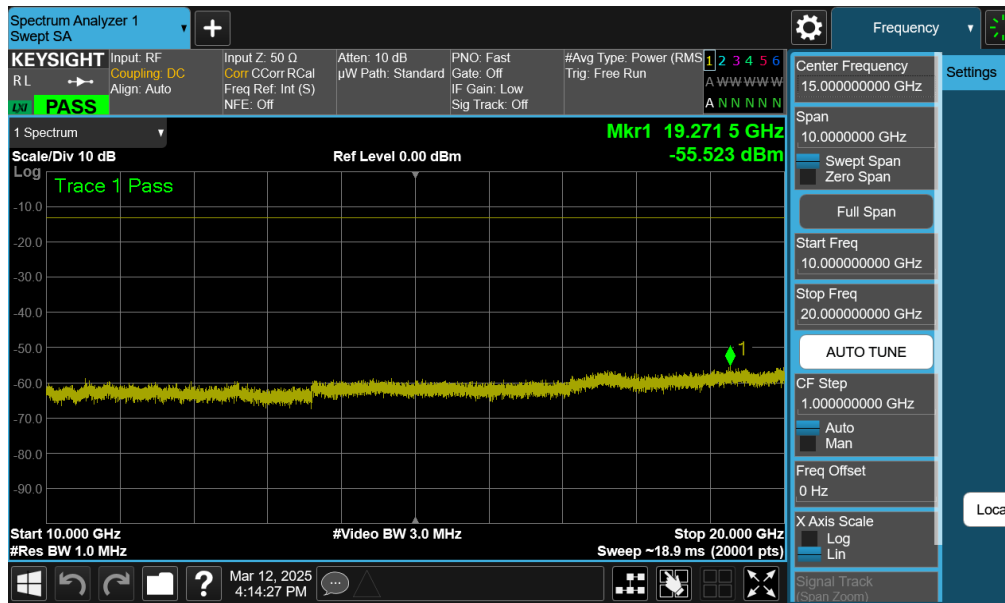


Plot 7-124. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Mid Channel - Ant2)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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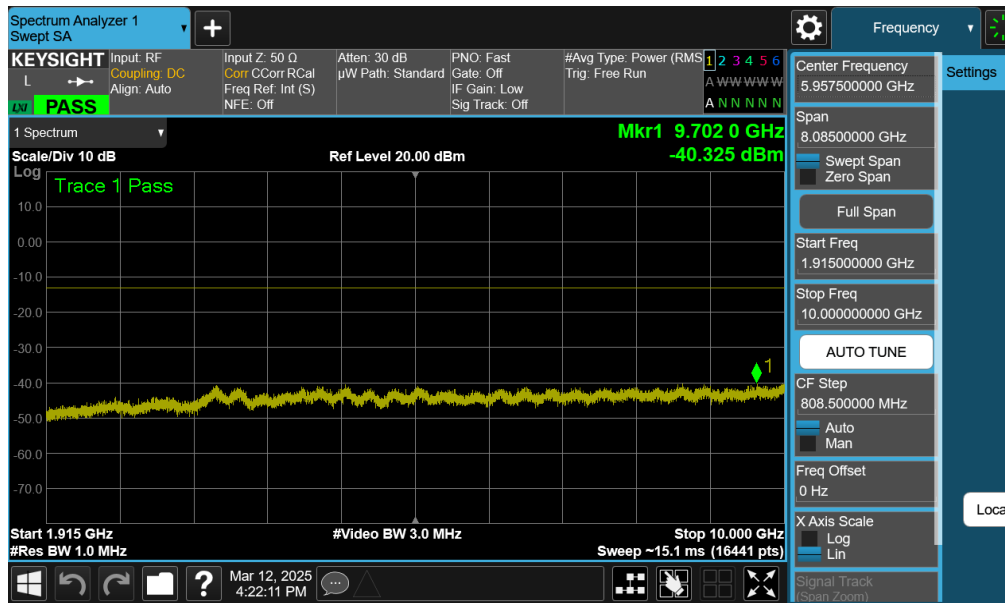


Plot 7-125. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Mid Channel - Ant2)

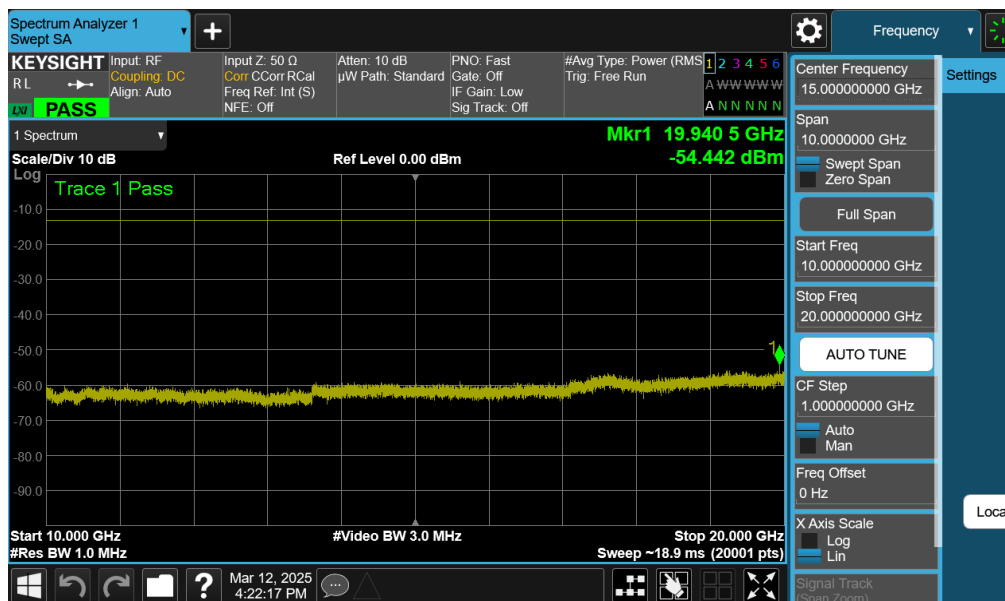


Plot 7-126. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Mid Channel - Ant2)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-129. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - High Channel - Ant2)

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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 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 5.7.3

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 $\geq 2 \times$ 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.

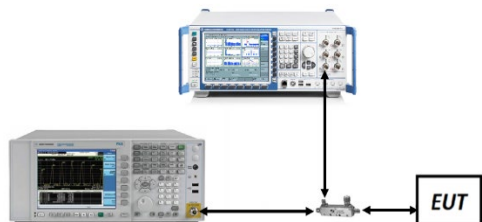


Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

1. Per 24.238(b) and RSS-133(6.5), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
GSM-PCS	250kHz	Low	Band Edge	-18.42	-13	-5.42
		Low	Extended	-40.33	-13	-27.33
		High	Band Edge	-19.33	-13	-6.33
		High	Extended	-39.79	-13	-26.79
WCDMA-PCS	5MHz	Low	Band Edge	-22.83	-13	-9.83
		Low	Extended	-16.57	-13	-3.57
		High	Band Edge	-22.17	-13	-9.17
		High	Extended	-17.36	-13	-4.36
LTE-B25-2	20MHz	Low	Band Edge	-28.19	-13	-15.19
		Low	Extended	-23.84	-13	-10.84
		High [B2]	Band Edge	-28.89	-13	-15.89
		High [B25]	Band Edge	-27.51	-13	-14.51
		High [B2]	Extended	-23.93	-13	-10.93
		High [B25]	Extended	-22.05	-13	-9.05
	15MHz	Low	Band Edge	-27.50	-13	-14.50
		Low	Extended	-21.44	-13	-8.44
		High [B2]	Band Edge	-28.19	-13	-15.19
		High [B25]	Band Edge	-26.50	-13	-13.50
		High [B2]	Extended	-21.30	-13	-8.30
		High [B25]	Extended	-20.72	-13	-7.72
	10MHz	Low	Band Edge	-27.69	-13	-14.69
		Low	Extended	-21.30	-13	-8.30
		High [B2]	Band Edge	-27.87	-13	-14.87
		High [B25]	Band Edge	-28.17	-13	-15.17
		High [B2]	Extended	-20.76	-13	-7.76
		High [B25]	Extended	-20.22	-13	-7.22
	5MHz	Low	Band Edge	-25.78	-13	-12.78
		Low	Extended	-27.35	-13	-14.35
		High [B2]	Band Edge	-24.43	-13	-11.43
		High [B25]	Band Edge	-22.67	-13	-9.67
		High [B2]	Extended	-24.11	-13	-11.11
		High [B25]	Extended	-20.16	-13	-7.16
	3MHz	Low	Band Edge	-24.41	-13	-11.41
		Low	Extended	-31.10	-13	-18.10
		High [B2]	Band Edge	-23.12	-13	-10.12
		High [B25]	Band Edge	-23.99	-13	-10.99
		High [B2]	Extended	-24.01	-13	-11.01
		High [B25]	Extended	-21.59	-13	-8.59
	1.4MHz	Low	Band Edge	-24.40	-13	-11.40
		Low	Extended	-29.32	-13	-16.32
		High [B2]	Band Edge	-23.02	-13	-10.02
		High [B25]	Band Edge	-22.96	-13	-9.96
		High [B2]	Extended	-29.16	-13	-16.16
		High [B25]	Extended	-29.31	-13	-16.31

Table 7-8. Conducted Band Edge Results – Ant1

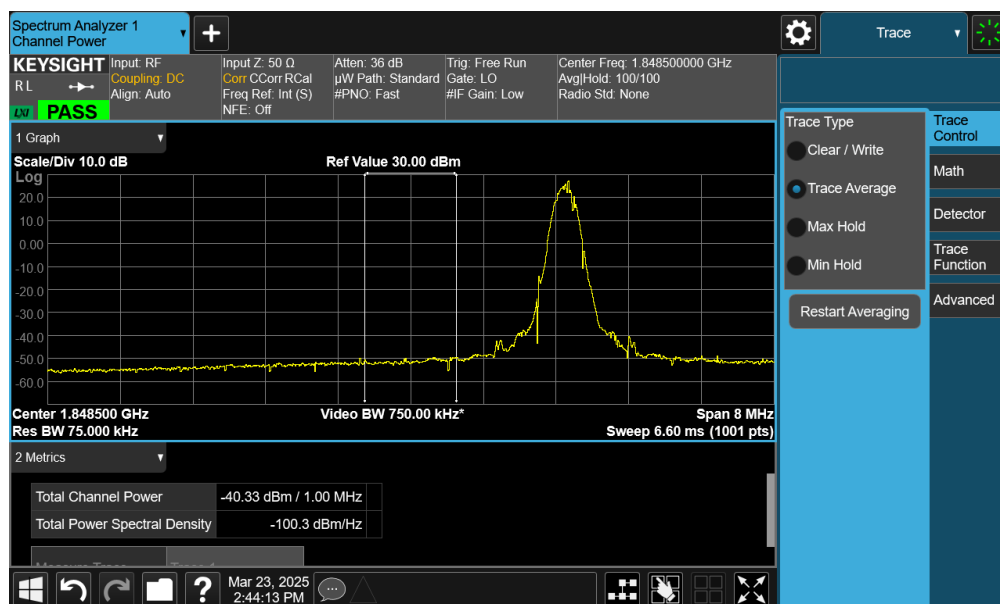
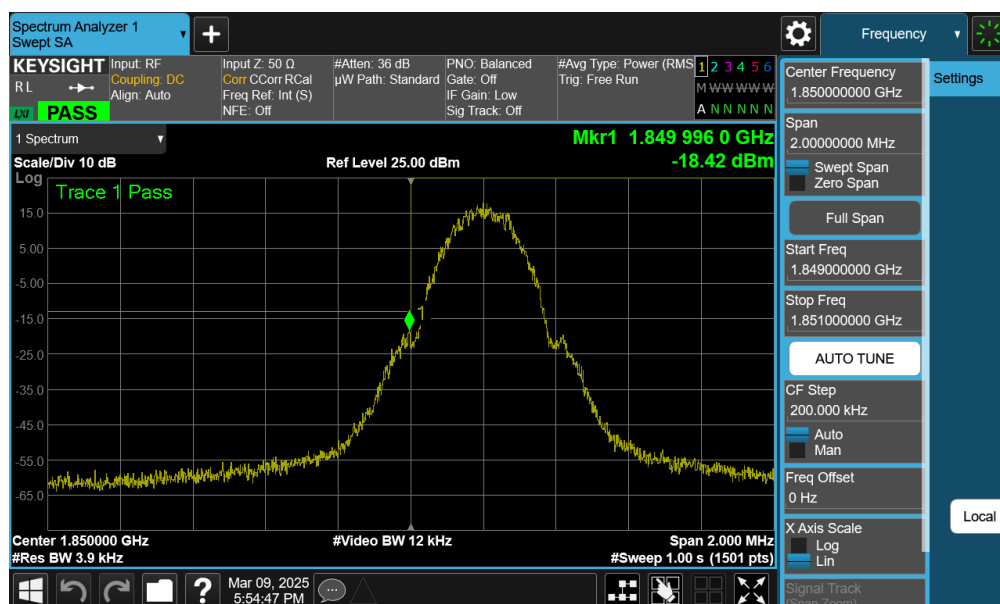
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n25-2	40MHz	Low	Band Edge	-27.89	-13	-14.89
		Low	Extended	-28.04	-13	-15.04
		High [n25]	Band Edge	-26.20	-13	-13.20
		High [n25]	Extended	-27.55	-13	-14.55
	35MHz	Low	Band Edge	-28.63	-13	-15.63
		Low	Extended	-27.20	-13	-14.20
		High [n25]	Band Edge	-28.76	-13	-15.76
		High [n25]	Extended	-26.97	-13	-13.97
	30MHz	Low	Band Edge	-29.75	-13	-16.75
		Low	Extended	-26.20	-13	-13.20
		High [n25]	Band Edge	-29.02	-13	-16.02
		High [n25]	Extended	-25.47	-13	-12.47
	25MHz	Low	Band Edge	-30.68	-13	-17.68
		Low	Extended	-26.43	-13	-13.43
		High [n25]	Band Edge	-29.08	-13	-16.08
		High [n25]	Extended	-25.82	-13	-12.82
	20MHz	Low	Band Edge	-29.00	-13	-16.00
		Low	Extended	-25.48	-13	-12.48
		High [n2]	Band Edge	-29.57	-13	-16.56
		High [n25]	Band Edge	-29.53	-13	-16.53
		High [n2]	Extended	-25.97	-13	-12.97
		High [n25]	Extended	-23.28	-13	-10.28
	15MHz	Low	Band Edge	-29.27	-13	-16.27
		Low	Extended	-21.83	-13	-8.82
		High [n2]	Band Edge	-27.64	-13	-14.64
		High [n25]	Band Edge	-28.40	-13	-15.40
		High [n2]	Extended	-22.41	-13	-9.41
		High [n25]	Extended	-22.07	-13	-9.06
	10MHz	Low	Band Edge	-27.81	-13	-14.81
		Low	Extended	-17.50	-13	-4.50
		High [n2]	Band Edge	-25.37	-13	-12.37
		High [n25]	Band Edge	-25.47	-13	-12.47
		High [n2]	Extended	-18.58	-13	-5.58
		High [n25]	Extended	-17.94	-13	-4.94
	5MHz	Low	Band Edge	-22.91	-13	-9.91
		Low	Extended	-32.96	-13	-19.96
		High [n2]	Band Edge	-21.57	-13	-8.57
		High [n25]	Band Edge	-24.06	-13	-11.06
		High [n2]	Extended	-28.25	-13	-15.25
		High [n25]	Extended	-23.37	-13	-10.37

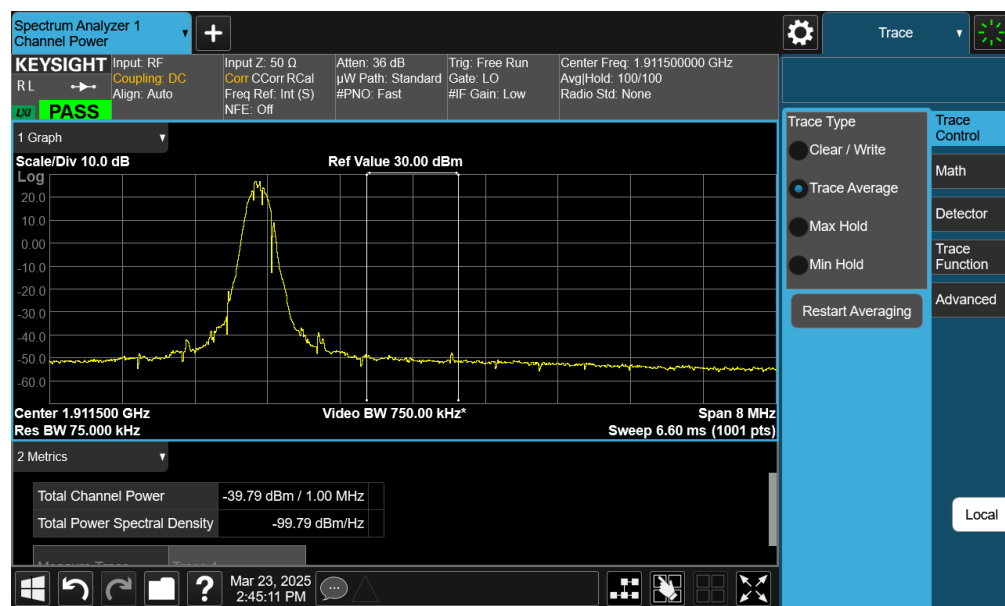
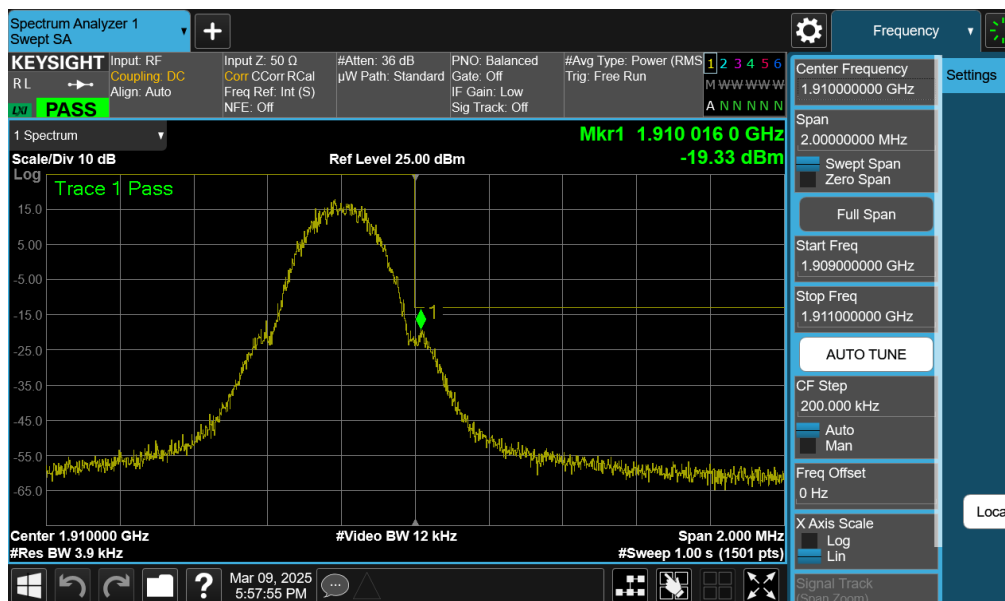
Table 7-9. Conducted Band Edge Results – Ant1

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GSM/GPRS PCS – Ant1



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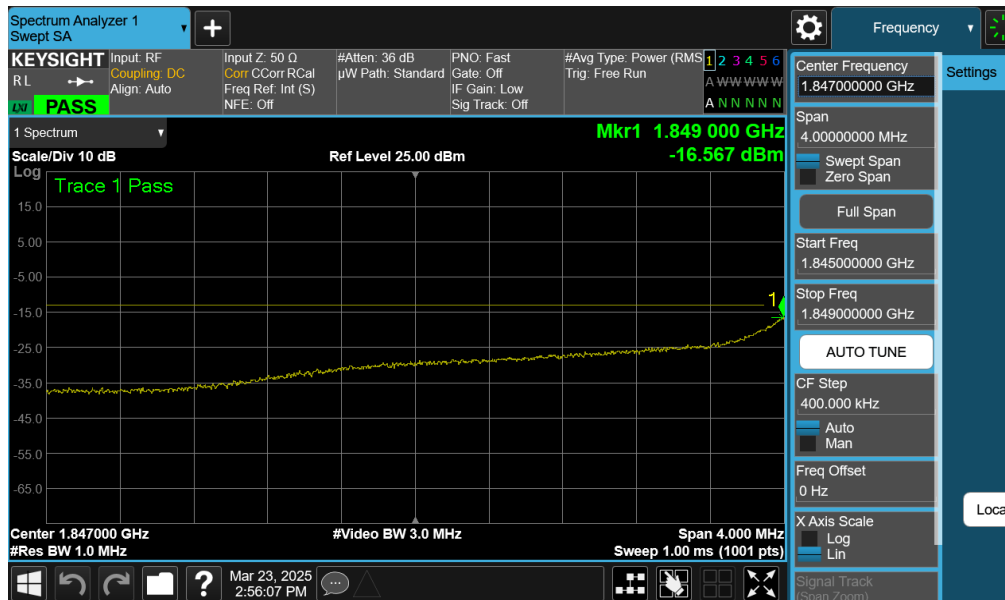


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WCDMA PCS – Ant1



Plot 7-134. Lower Band Edge Plot (WCDMA PCS – Ch. 9262 - Ant1)



Plot 7-135. Extended Lower Band Edge Plot (WCDMA PCS – Ch. 9262 - Ant1)

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