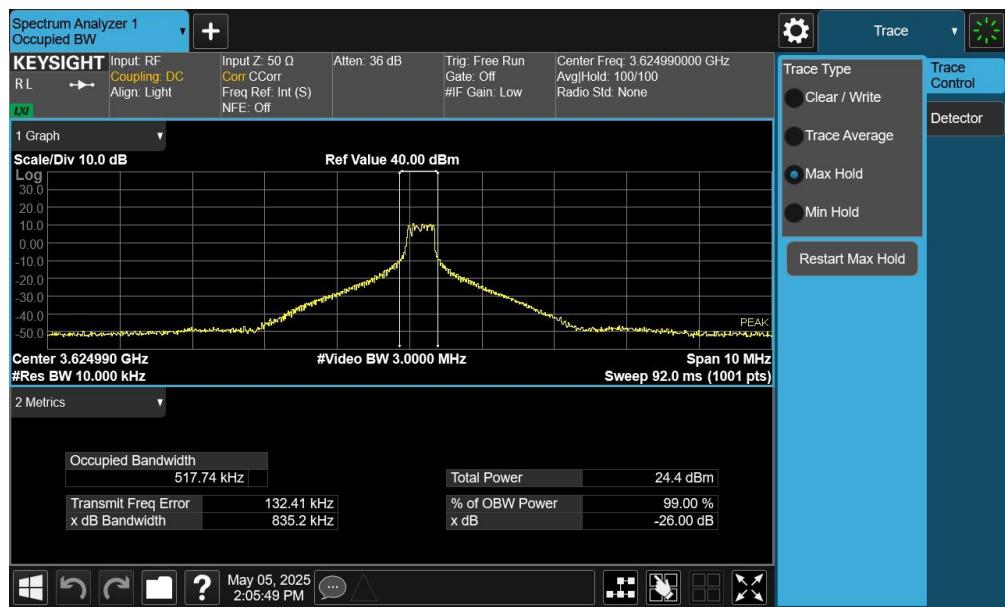
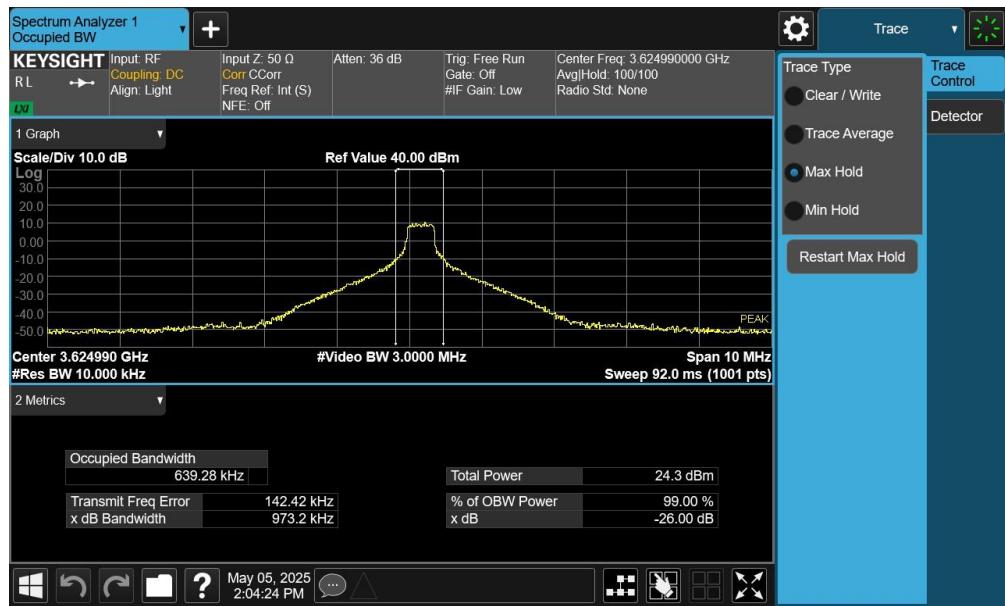


NR Band n48 – SRS Ant4



Plot 7-58. Occupied Bandwidth Plot (NR Band n48 - 40MHz $\pi/2$ BPSK - Full RB Configuration – SRS Ant4)



Plot 7-59. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration – SRS Ant4)

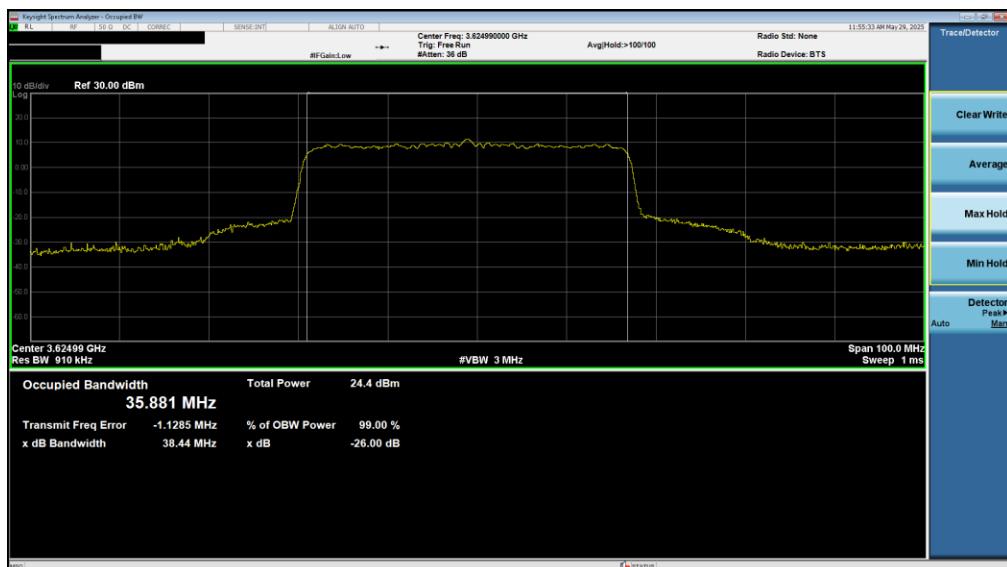
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 53 of 146



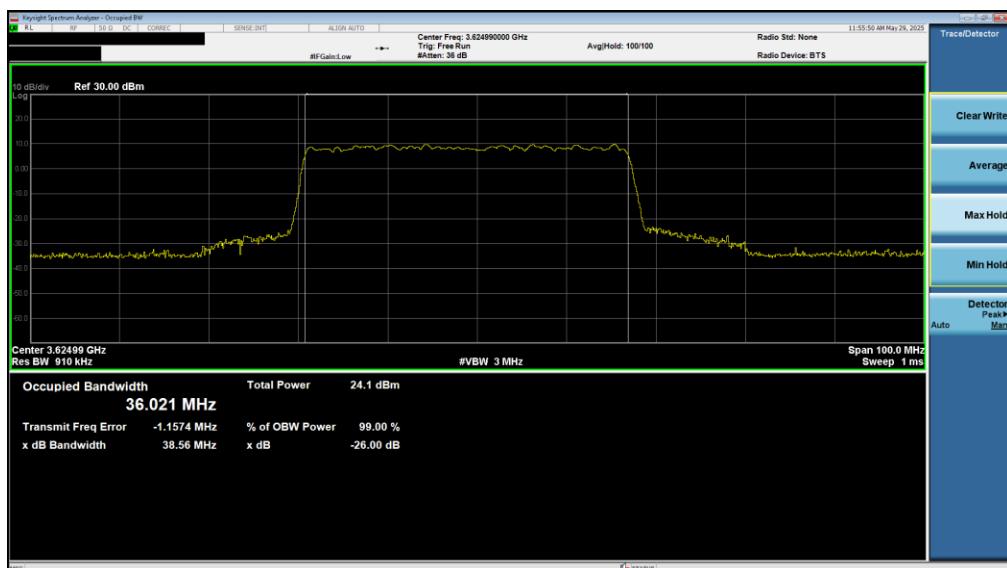
Plot 7-60. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration – SRS Ant4)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – UL MIMO Ant6

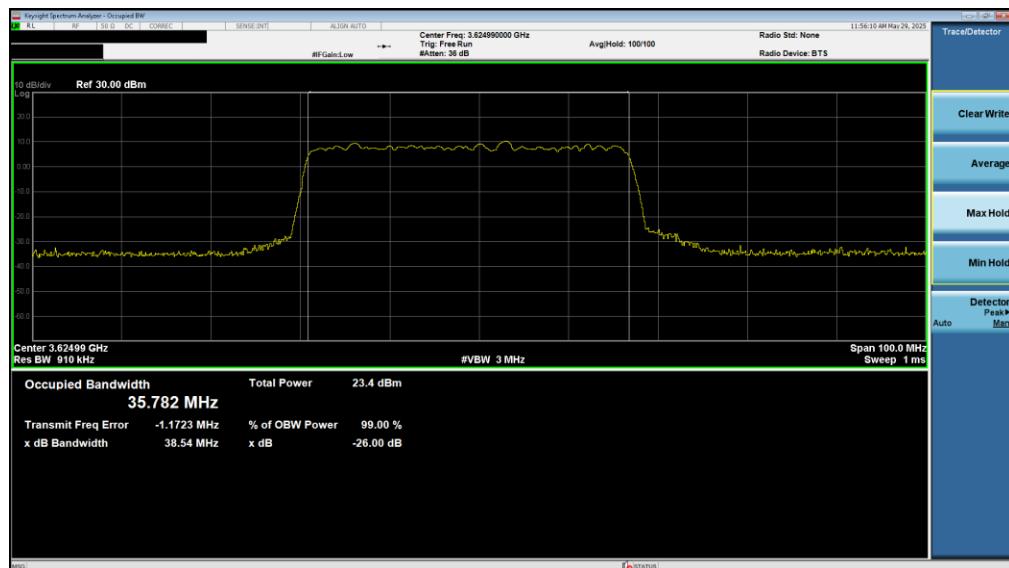


Plot 7-61. Occupied Bandwidth Plot (NR Band n48 - 40MHz $\pi/2$ BPSK - Full RB Configuration – UL MIMO Ant6)



Plot 7-62. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration – UL MIMO Ant6)

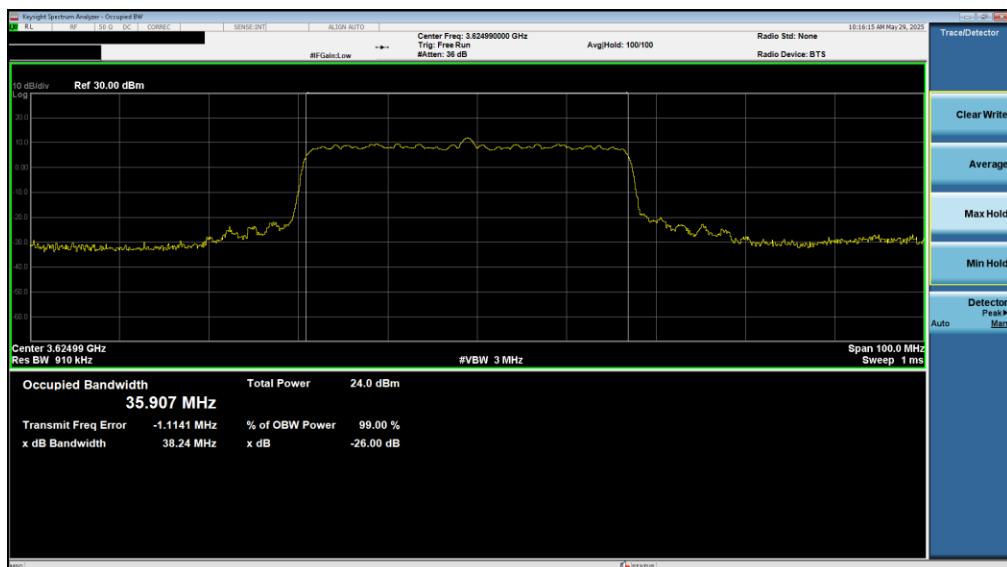
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 55 of 146



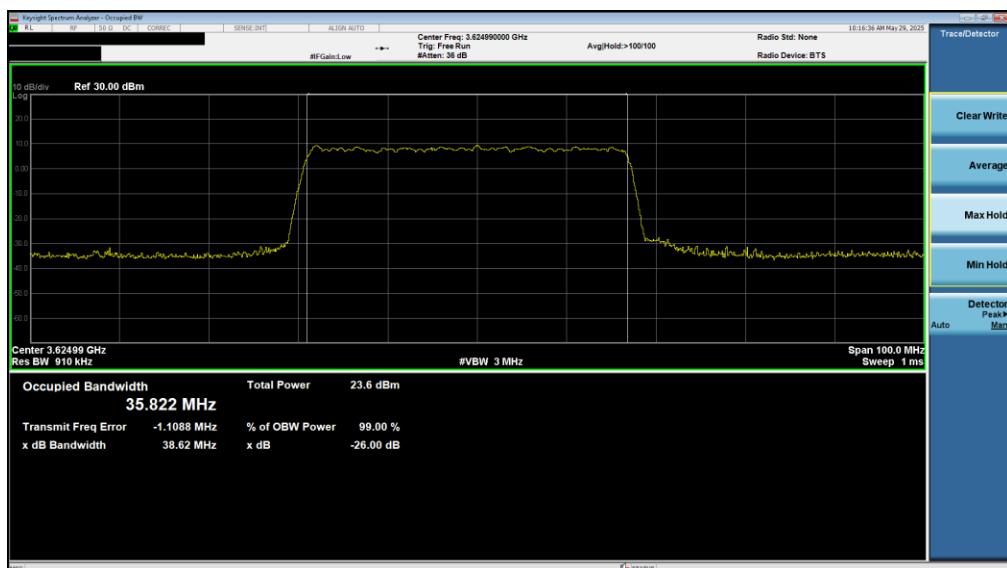
Plot 7-63. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration – UL MIMO Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – UL MIMO Ant1

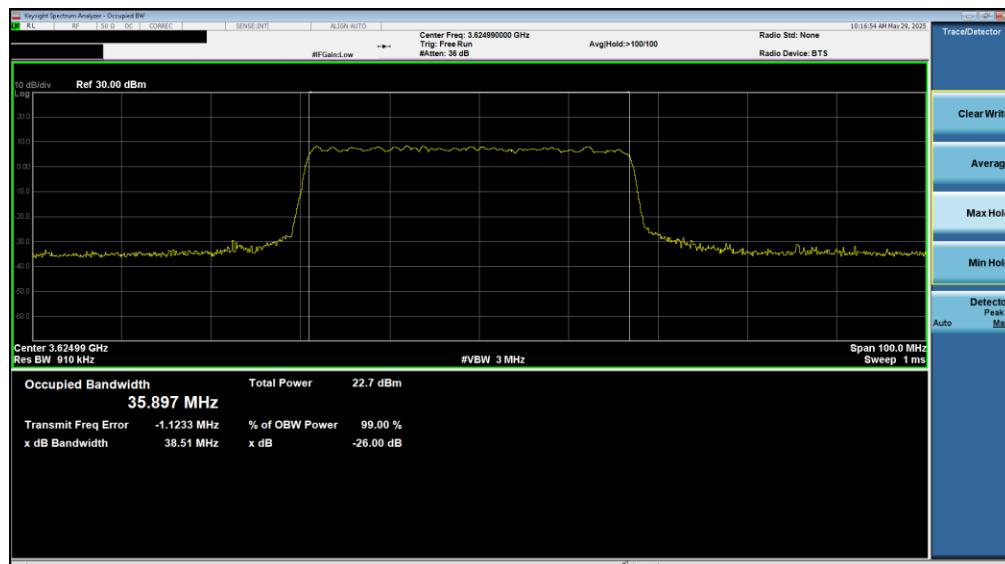


Plot 7-64. Occupied Bandwidth Plot (NR Band n48 - 40MHz $\pi/2$ BPSK - Full RB Configuration – UL MIMO Ant1)



Plot 7-65. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration – UL MIMO Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 57 of 146



FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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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 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.

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

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 at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = Max Hold
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.

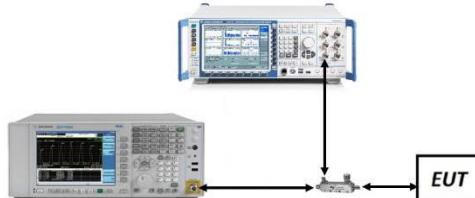


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. 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 $10\log(2) = 3$ 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.

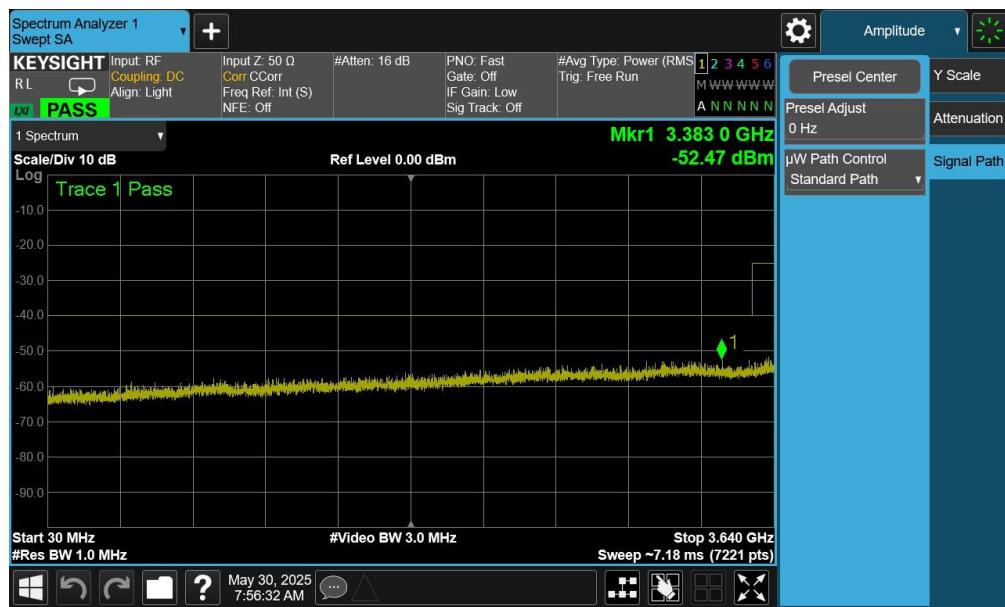
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 59 of 146

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B48	20MHz	Low	30.0 - 3510.0	-51.66	-40.0	-11.66
		Low	3610.0 - 15000.0	-48	-40.0	-8.00
		Low	15000.0 - 27000.0	-44.25	-40.0	-4.25
		Low	27000.0 - 37000.0	-43.51	-40.0	-3.51
		Mid	30.0 - 35750.0	-51.05	-40.0	-11.05
		Mid	3675.0 - 15000.0	-42.94	-40.0	-2.94
		Mid	15000.0 - 27000.0	-47.33	-40.0	-7.32
		Mid	27000.0 - 39000.0	-42.19	-40.0	-2.19
		High	30.0 - 3640.0	-52.47	-40.0	-12.47
		High	3740.0 - 15000.0	-41.49	-40.0	-1.49
		High	15000.0 - 27000.0	-48.74	-40.0	-8.74
		High	27000.0 - 39000.0	-42.09	-40.0	-2.09
LTE Band 48 ULCA	20+20MHz	Low	30.0 - 3510.0	-52.64	-40.0	-12.64
		Low	3540.0 - 3630.0	-34.17	-	-
		Low	3610.0 - 15000.0	-49.45	-40.0	-9.45
		Low	15000.0 - 27000.0	-47.31	-40.0	-7.31
		Low	27000.0 - 37000.0	-45.55	-40.0	-5.55
		Mid	30.0 - 3575.0	-64.34	-40.0	-24.34
		Mid	3575.0 - 3720.0	-34.94	-	-
		Mid	3675.0 - 15000.0	-59.88	-40.0	-19.88
		Mid	15000.0 - 27000.0	-52.96	-40.0	-12.96
		Mid	27000.0 - 37000.0	-45.48	-40.0	-5.48
		High	30.0 - 3620.0	-52.43	-40.0	-12.43
		High	3620.0 - 3710.0	-34.92	-	-
		High	3740.0 - 15000.0	-42.82	-40.0	-2.82
		High	15000.0 - 27000.0	-50.31	-40.0	-10.31
		High	27000.0 - 37000.0	-45.36	-40.0	-5.36
NR-n48	40MHz	Low	30.0 - 3510.0	-49.74	-40.0	-9.74
		Low	3610.0 - 15000.0	-46.02	-40.0	-6.02
		Low	15000.0 - 27000.0	-45.67	-40.0	-5.67
		Low	27000.0 - 37000.0	-47.69	-40.0	-7.69
		Mid	30.0 - 35750.0	-49.65	-40.0	-9.65
		Mid	3675.0 - 15000.0	-47.34	-40.0	-7.34
		Mid	15000.0 - 27000.0	-48.17	-40.0	-8.17
		Mid	27000.0 - 39000.0	-46.23	-40.0	-6.23
		High	30.0 - 3640.0	-54.74	-40.0	-14.74
		High	3740.0 - 15000.0	-45.66	-40.0	-5.66
		High	15000.0 - 27000.0	-50.98	-40.0	-10.98
		High	27000.0 - 39000.0	-45.02	-40.0	-5.02

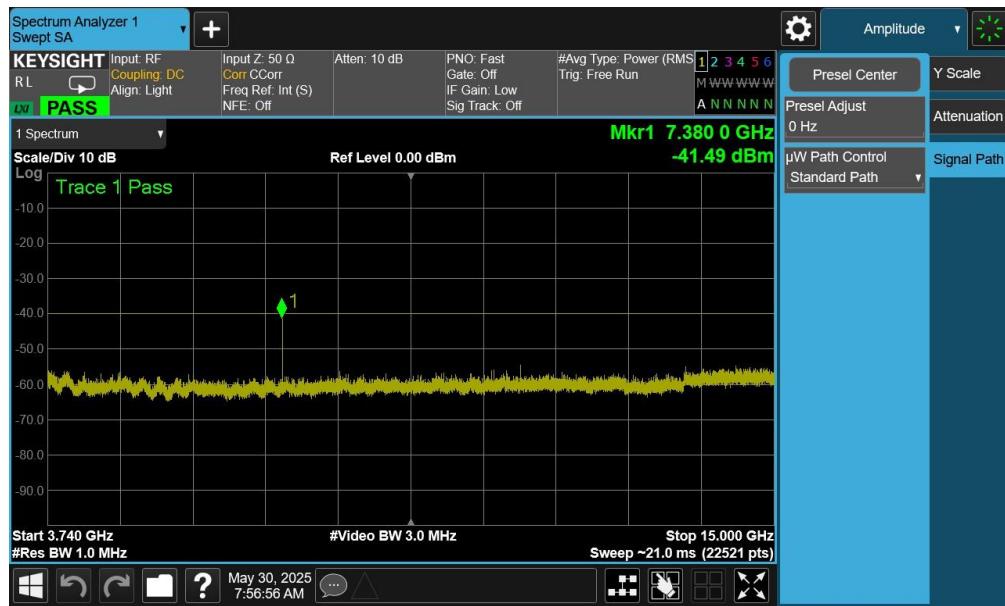
Table 7-16. Conducted Spurious Emission Test Results – Ant6

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 60 of 146	

LTE Band 48 – Ant6

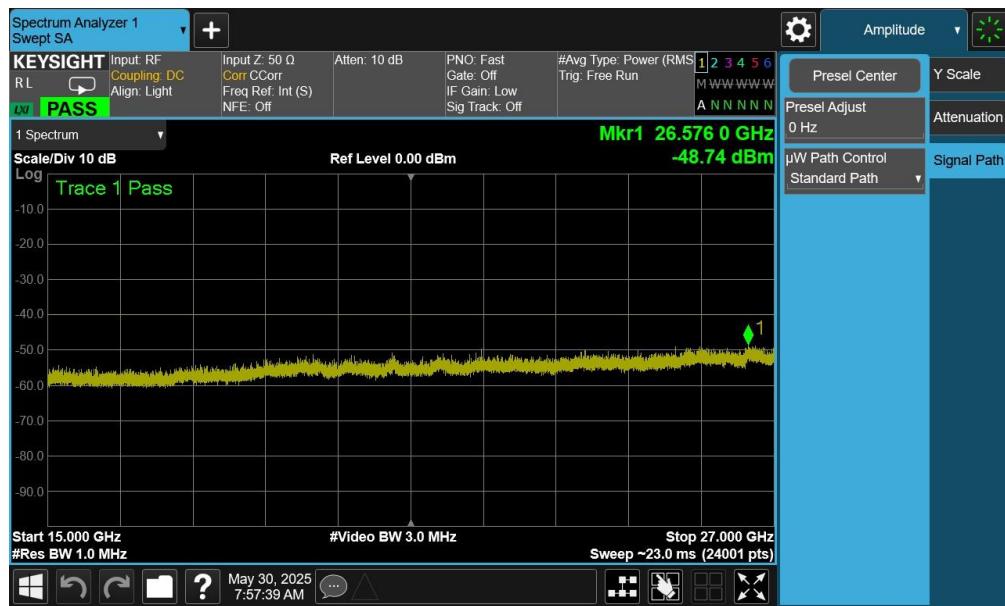


Plot 7-67. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel - Ant6)



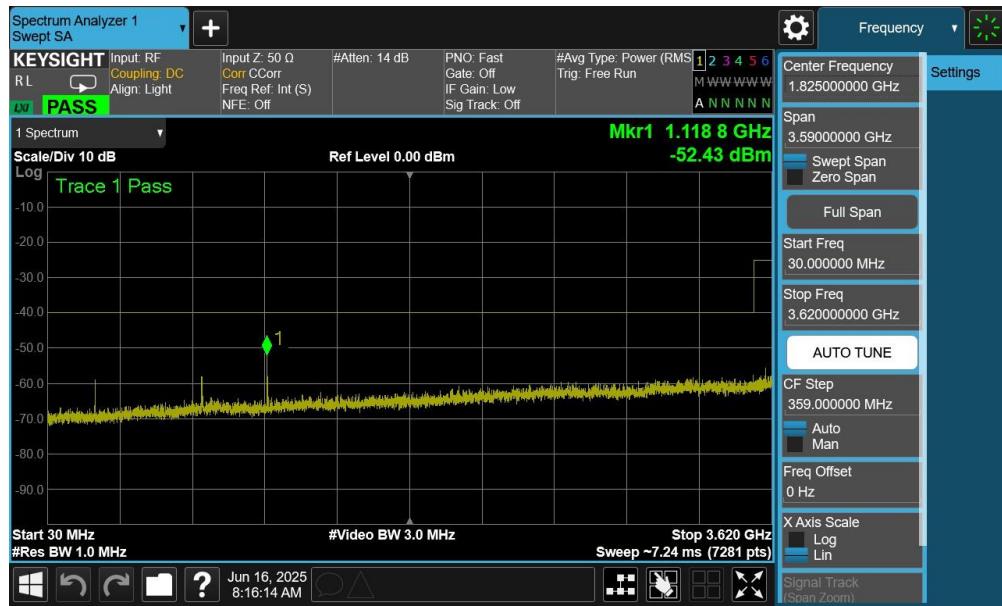
Plot 7-68. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 - 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 61 of 146



FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 62 of 146

ULCA LB48 – Ant6

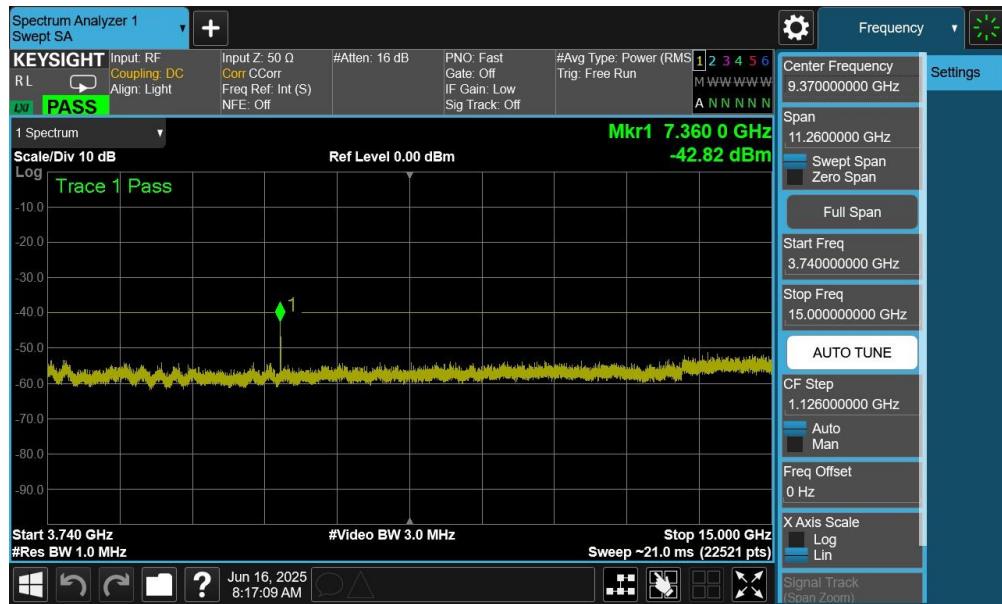


Plot 7-71. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)

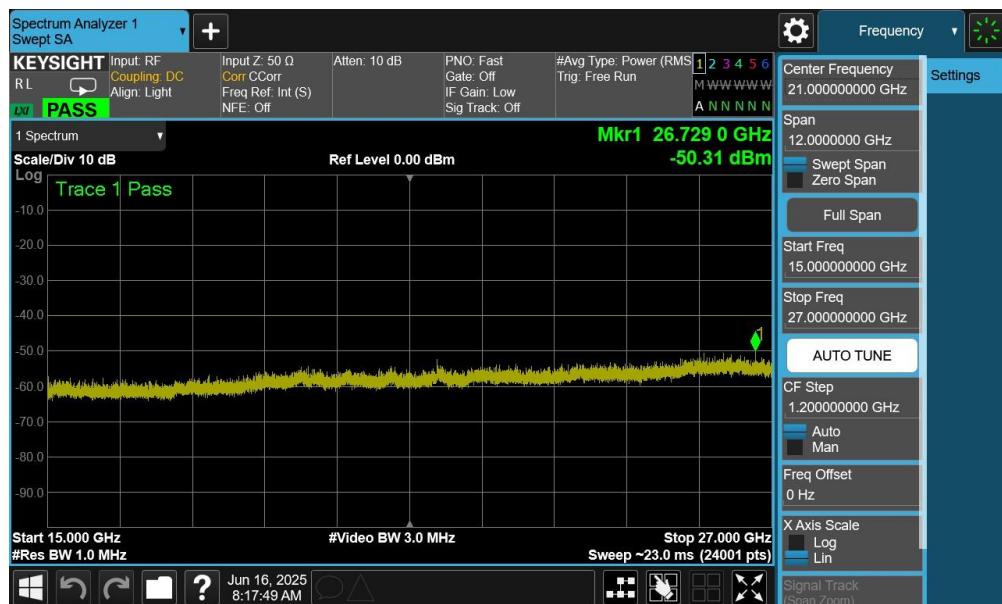


Plot 7-72. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 - 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 63 of 146



Plot 7-73. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)



Plot 7-74. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)

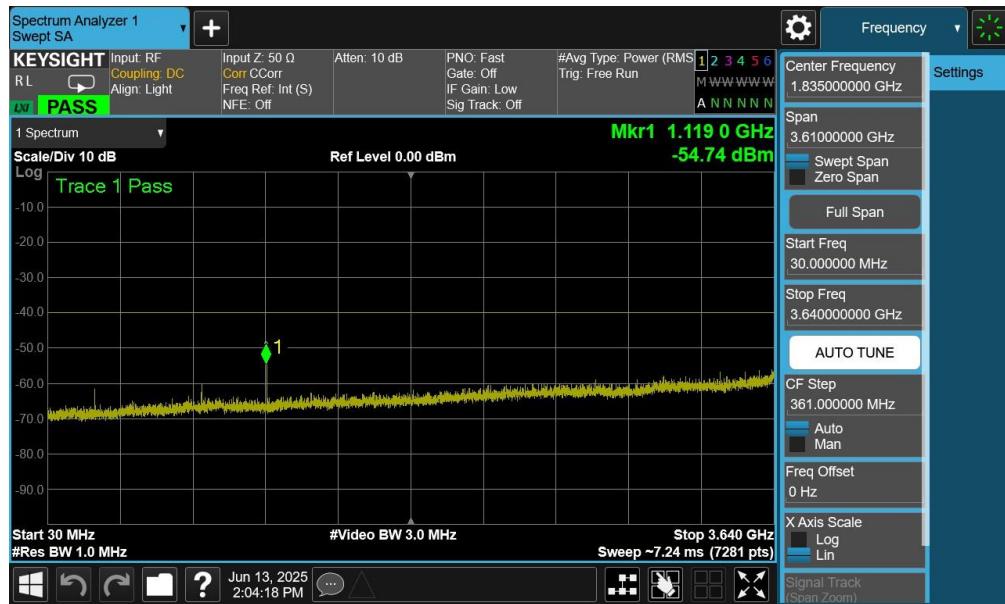
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 64 of 146



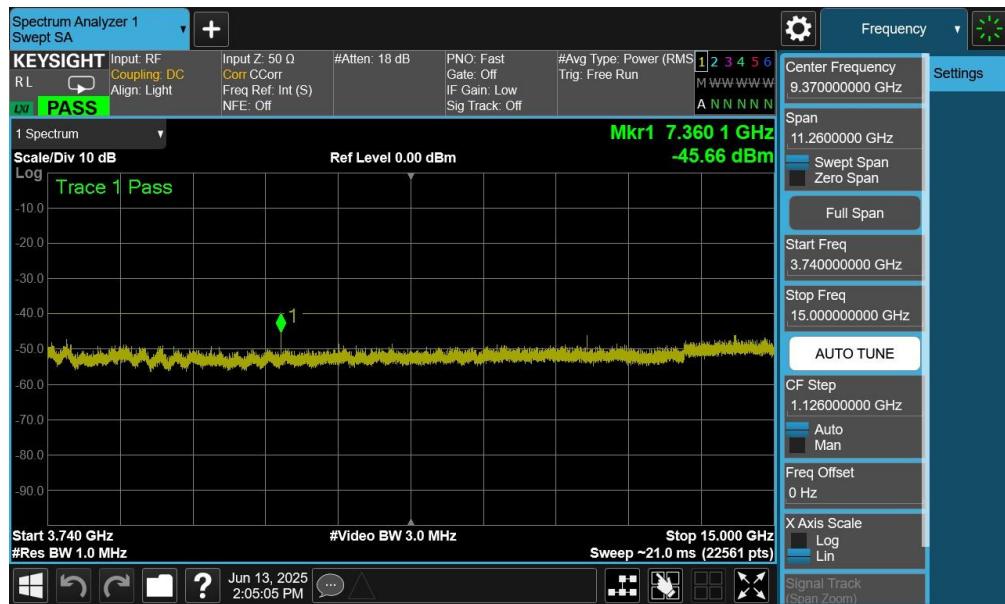
Plot 7-75. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 65 of 146

NR Band n48 – Ant6



Plot 7-76. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant6)



Plot 7-77. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant6)

FCC ID: C3K2119		PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		
1M2504010035-01-R3.C3K	05/05/2025 – 06/17/2025	Modular Approval - Host Integration (Portable Computing Device)	Page 66 of 146	



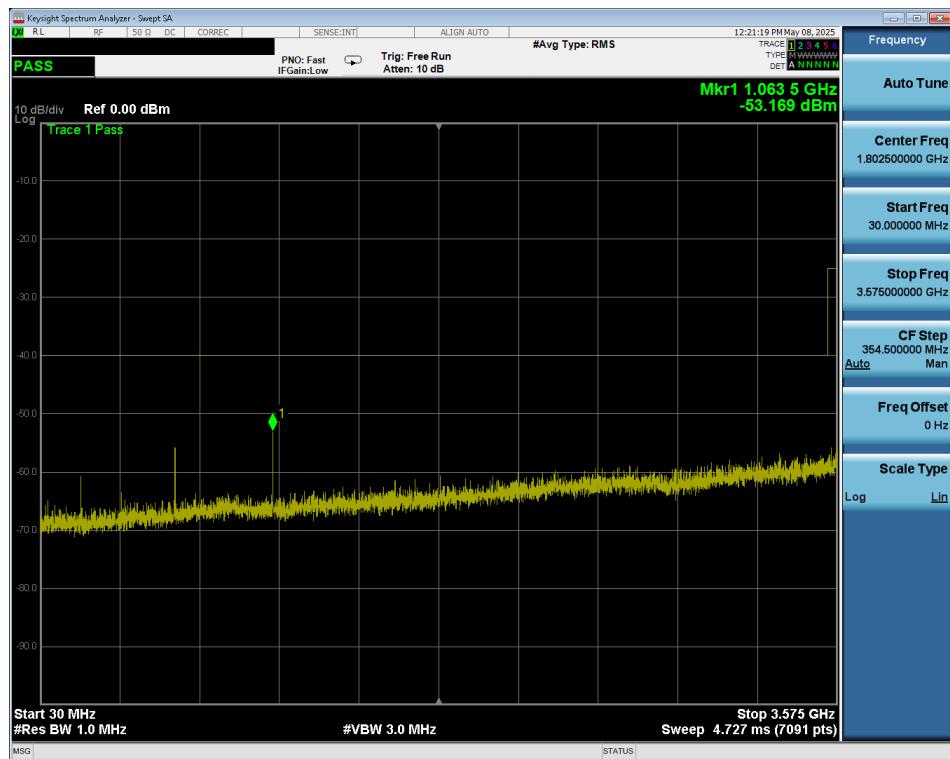
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 67 of 146

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B48	20MHz	Low	30.0 - 3510.0	-50.84	-40.0	-10.84
		Low	3610.0 - 15000.0	-43.19	-40.0	-3.18
		Low	15000.0 - 27000.0	-47.46	-40.0	-7.46
		Low	27000.0 - 37000.0	-43.16	-40.0	-3.16
		Mid	30.0 - 35750.0	-53.17	-40.0	-13.17
		Mid	3675.0 - 15000.0	-45.68	-40.0	-5.68
		Mid	15000.0 - 27000.0	-45.95	-40.0	-5.94
		Mid	27000.0 - 39000.0	-43.12	-40.0	-3.12
		High	30.0 - 3640.0	-54.67	-40.0	-14.67
		High	3740.0 - 15000.0	-43.57	-40.0	-3.57
		High	15000.0 - 27000.0	-47.49	-40.0	-7.49
		High	27000.0 - 37000.0	-43.21	-40.0	-3.21
NR-n48	40MHz	Low	30.0 - 3510.0	-50.56	-40.0	-10.56
		Low	3610.0 - 15000.0	-42.68	-40.0	-2.68
		Low	15000.0 - 27000.0	-47.03	-40.0	-7.03
		Low	27000.0 - 37000.0	-43.03	-40.0	-3.03
		Mid	30.0 - 35750.0	-51.27	-40.0	-11.27
		Mid	3675.0 - 15000.0	-45.56	-40.0	-5.56
		Mid	15000.0 - 27000.0	-45.72	-40.0	-5.72
		Mid	27000.0 - 39000.0	-43.43	-40.0	-3.43
		High	30.0 - 3640.0	-54.17	-40.0	-14.17
		High	3740.0 - 15000.0	-44	-40.0	-4.00
		High	15000.0 - 27000.0	-47.42	-40.0	-7.42
		High	27000.0 - 39000.0	-43.22	-40.0	-3.22

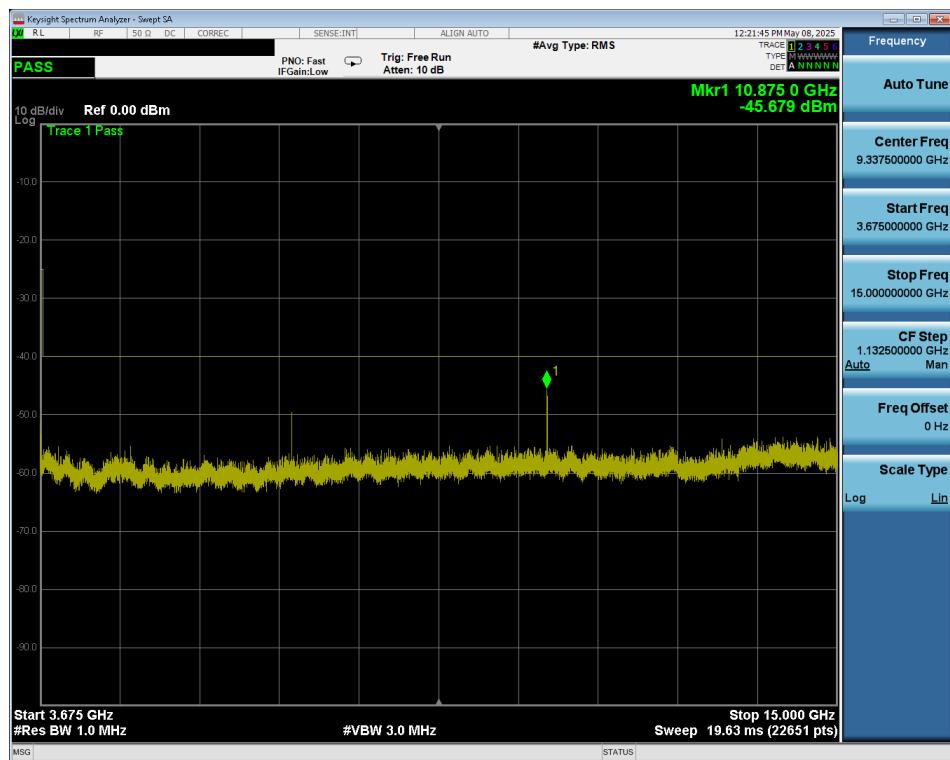
Table 7-17. Conducted Spurious Emission Test Results – Ant1

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 68 of 146	

LTE Band 48 – Ant1

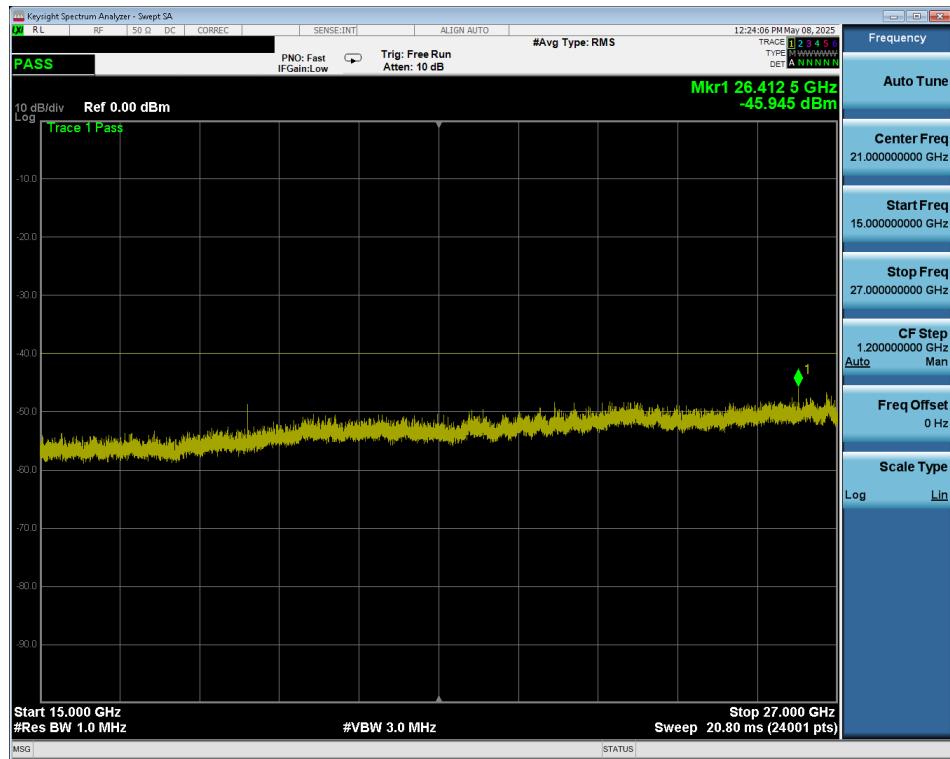


Plot 7-80. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)

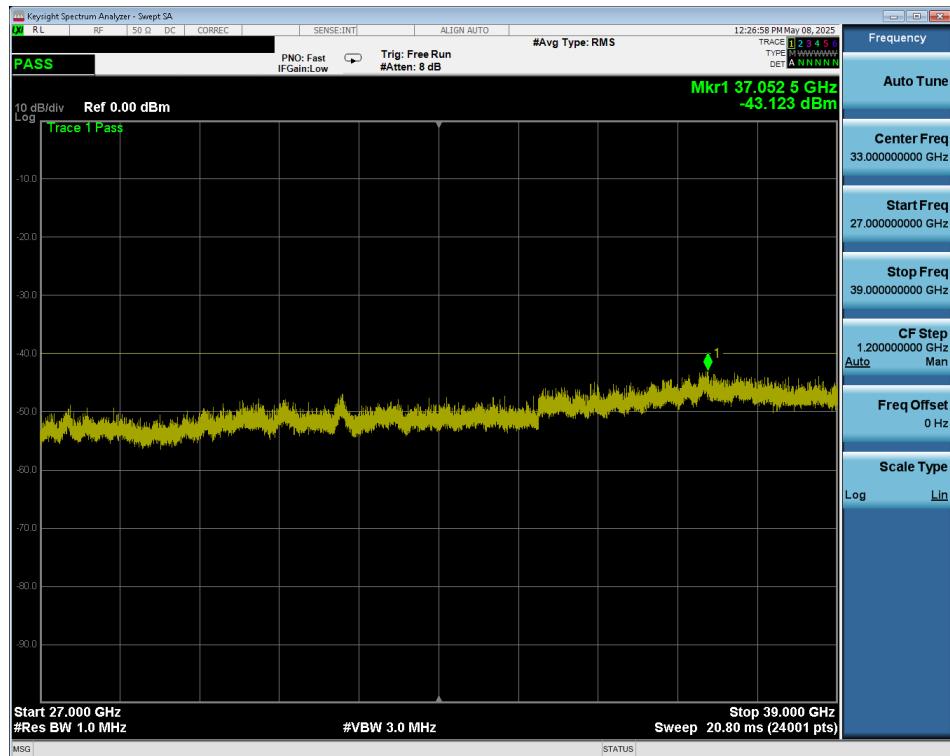


Plot 7-81. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 69 of 146

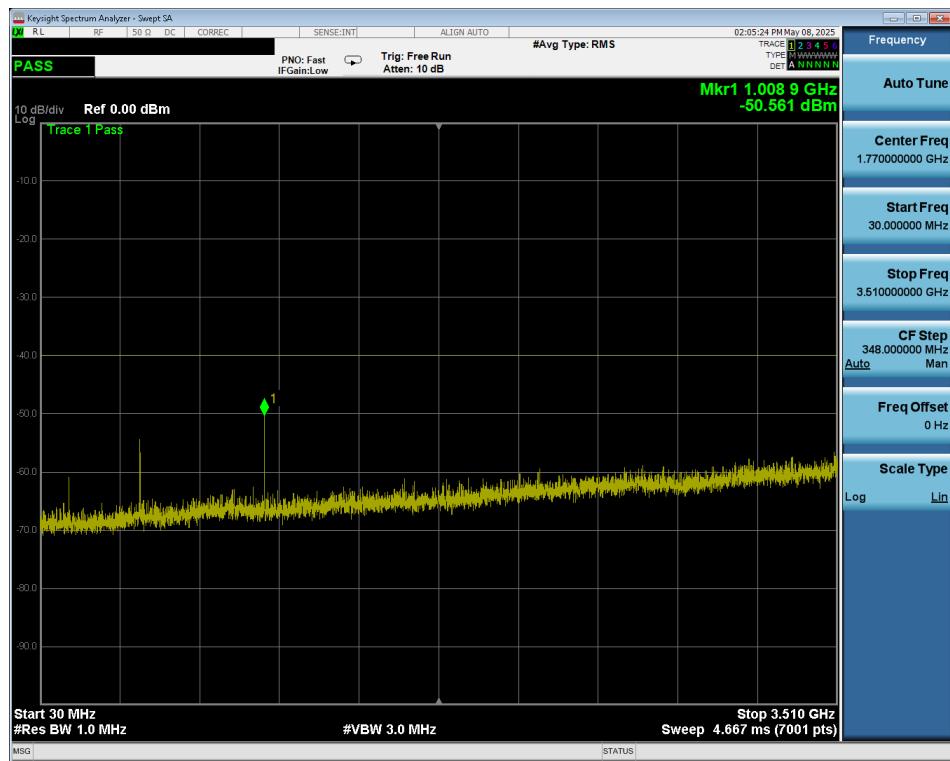
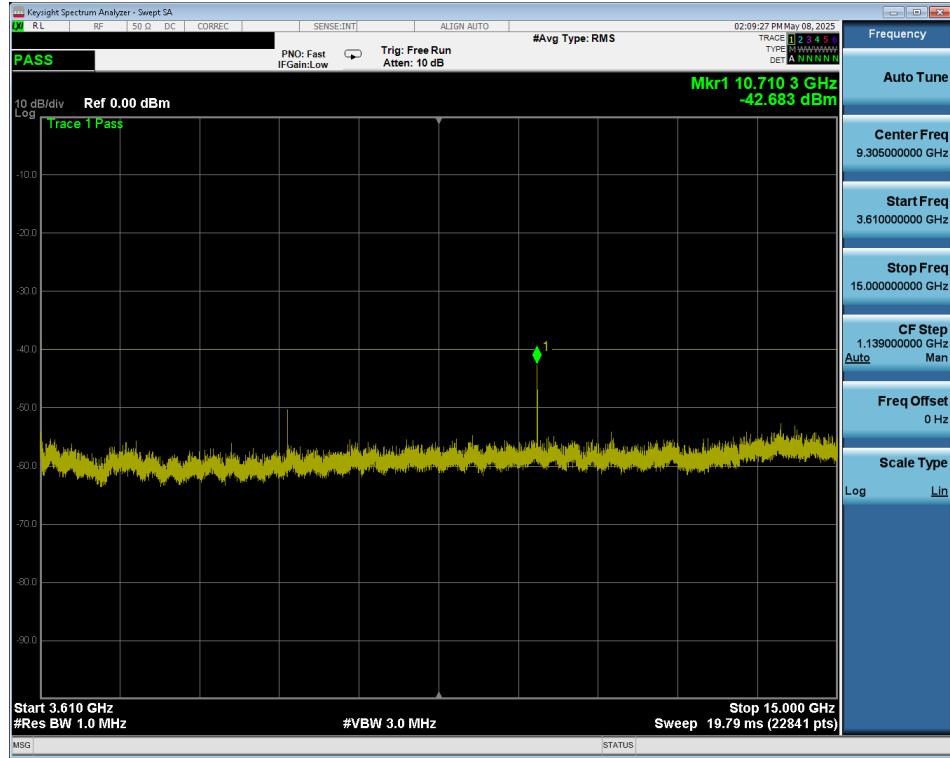


Plot 7-82. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)

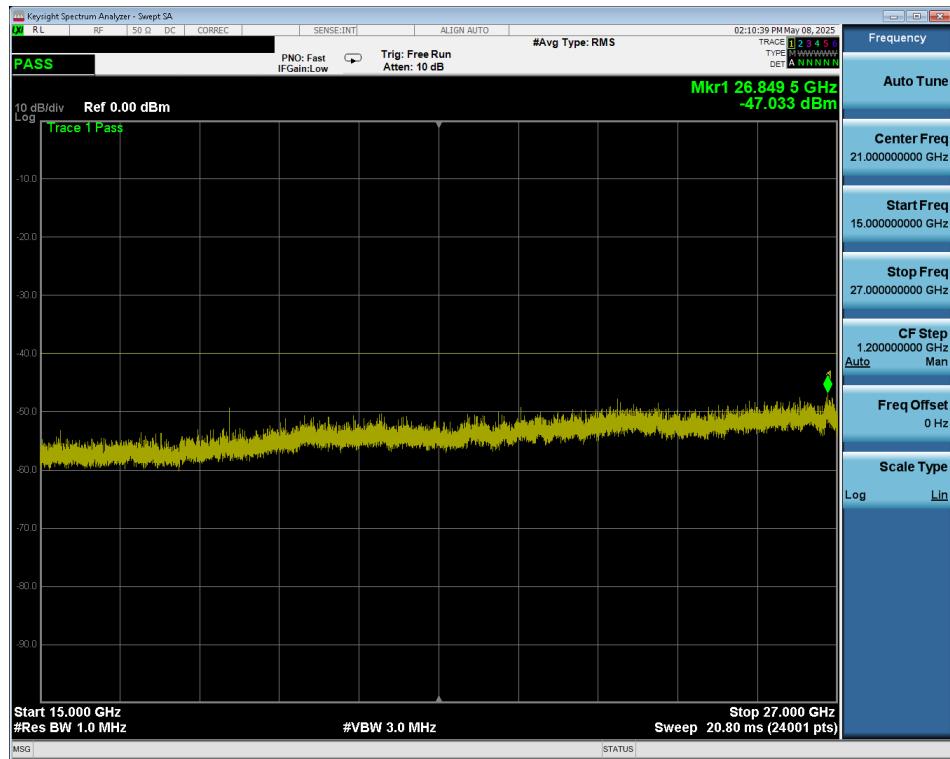


Plot 7-83. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)

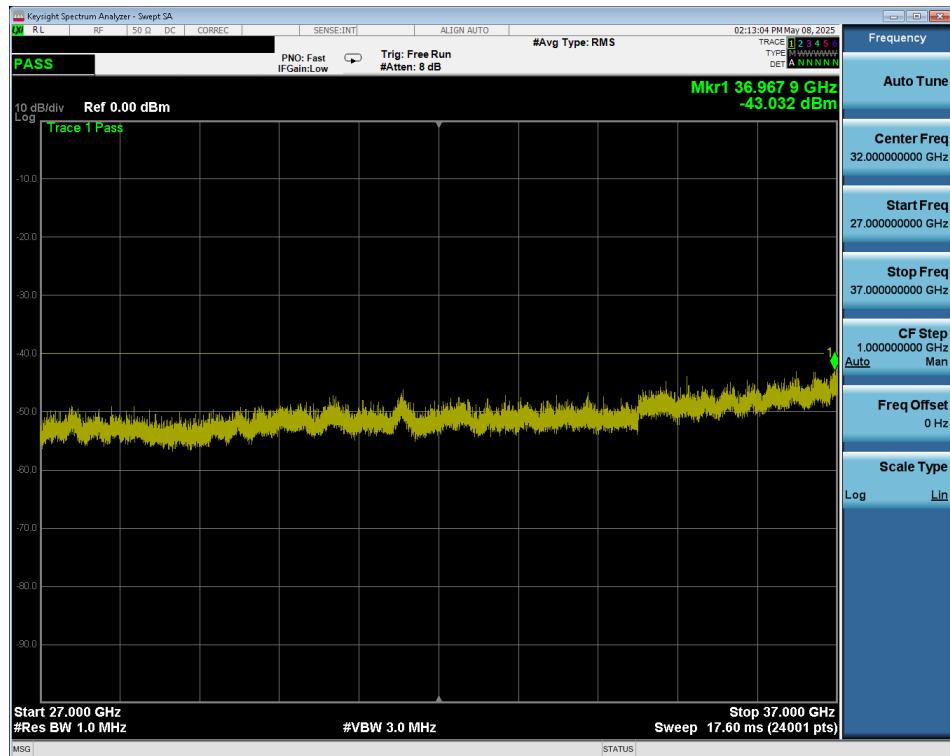
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 70 of 146

NR Band n48 – Ant1

Plot 7-84. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant1)

Plot 7-85. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 71 of 146



Plot 7-86. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant1)



Plot 7-87. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 72 of 146

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	30.0 - 3510.0	-49.17	-40.0	-9.17
		Low	3610.0 - 15000.0	-48.87	-40.0	-8.87
		Low	15000.0 - 27000.0	-46.82	-40.0	-6.82
		Low	27000.0 - 37000.0	-41.21	-40.0	-1.21
		Mid	30.0 - 35750.0	-50.36	-40.0	-10.36
		Mid	3675.0 - 15000.0	-50.30	-40.0	-10.30
		Mid	15000.0 - 27000.0	-46.71	-40.0	-6.71
		Mid	27000.0 - 39000.0	-41.56	-40.0	-1.56
		High	30.0 - 3640.0	-53.42	-40.0	-13.42
		High	3740.0 - 15000.0	-44.62	-40.0	-4.62
		High	15000.0 - 27000.0	-46.37	-40.0	-6.37
		High	27000.0 - 39000.0	-42.03	-40.0	-2.03

Table 7-18. Conducted Spurious Emission Test Results- SRS Ant3

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
UL MIMO NR-n48	40MHz	Low	30.0 - 3510.0	-52.25	-40.0	-12.25
		Low	3610.0 - 15000.0	-45.40	-40.0	-5.40
		Low	15000.0 - 27000.0	-45.76	-40.0	-5.76
		Low	27000.0 - 37000.0	-41.23	-40.0	-1.23
		Mid	30.0 - 35750.0	-53.02	-40.0	-13.02
		Mid	3675.0 - 15000.0	-48.09	-40.0	-8.09
		Mid	15000.0 - 27000.0	-46.09	-40.0	-6.09
		Mid	27000.0 - 39000.0	-41.00	-40.0	-1.00
		High	30.0 - 3640.0	-51.86	-40.0	-11.86
		High	3740.0 - 15000.0	-48.21	-40.0	-8.21
		High	15000.0 - 27000.0	-45.51	-40.0	-5.51
		High	27000.0 - 39000.0	-40.95	-40.0	-0.95

Table 7-19. Conducted Spurious Emission Test Results- SRS Ant4

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	30.0 - 3510.0	-49.28	-40.0	-9.28
		Low	3610.0 - 15000.0	-46.50	-40.0	-6.50
		Low	15000.0 - 27000.0	-47.00	-40.0	-7.00
		Low	27000.0 - 37000.0	-41.50	-40.0	-1.50
		Mid	30.0 - 35750.0	-50.61	-40.0	-10.61
		Mid	3675.0 - 15000.0	-49.00	-40.0	-9.00
		Mid	15000.0 - 27000.0	-45.92	-40.0	-5.92
		Mid	27000.0 - 39000.0	-41.63	-40.0	-1.63
		High	30.0 - 3640.0	-54.69	-40.0	-14.69
		High	3740.0 - 15000.0	-46.41	-40.0	-6.41
		High	15000.0 - 27000.0	-46.80	-40.0	-6.80
		High	27000.0 - 39000.0	-42.23	-40.0	-2.23

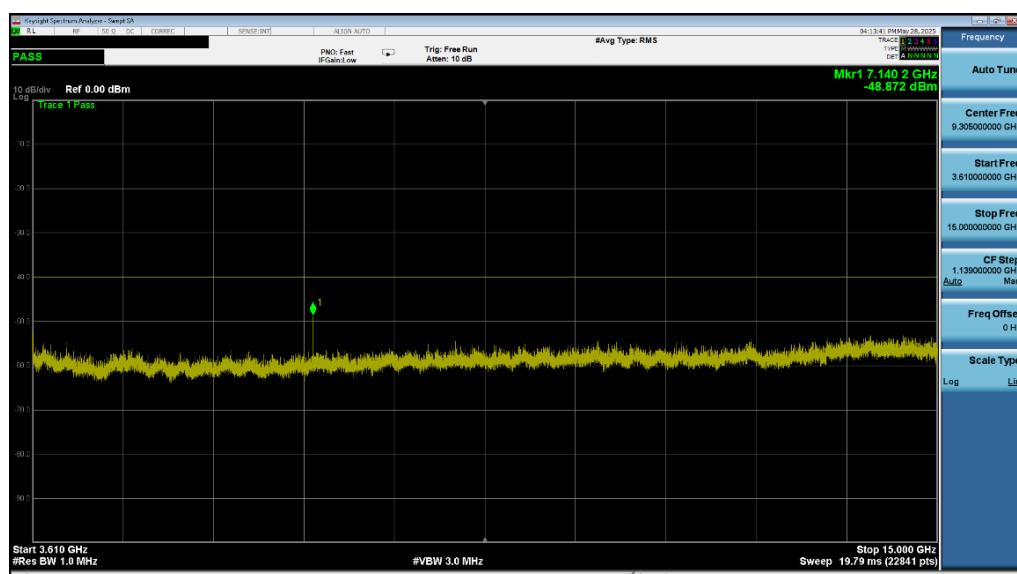
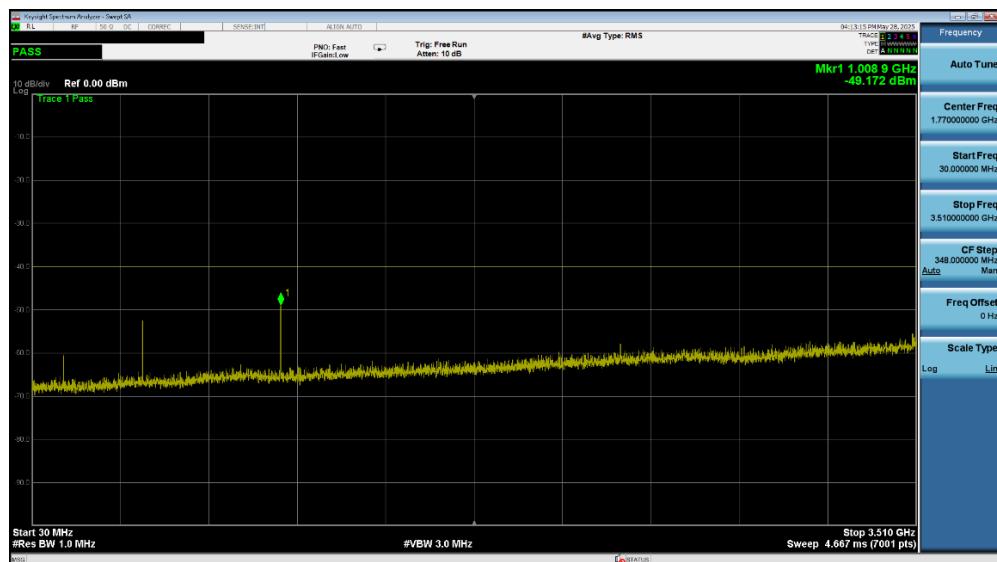
Table 7-20. Conducted Spurious Emission Test Results– UL MIMO Ant6

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
UL MIMO NR-n48	40MHz	Low	30.0 - 3510.0	-52.309	-40.0	-12.31
		Low	3610.0 - 15000.0	-46.648	-40.0	-6.65
		Low	15000.0 - 27000.0	-44.367	-40.0	-4.37
		Low	27000.0 - 37000.0	-41.923	-40.0	-1.92
		Mid	30.0 - 35750.0	-54.859	-40.0	-14.86
		Mid	3675.0 - 15000.0	-49.23	-40.0	-9.23
		Mid	15000.0 - 27000.0	-45.505	-40.0	-5.50
		Mid	27000.0 - 39000.0	-40.737	-40.0	-0.74
		High	30.0 - 3640.0	-54.121	-40.0	-14.12
		High	3740.0 - 15000.0	-46.579	-40.0	-6.58
		High	15000.0 - 27000.0	-45.393	-40.0	-5.39
		High	27000.0 - 39000.0	-40.749	-40.0	-0.75

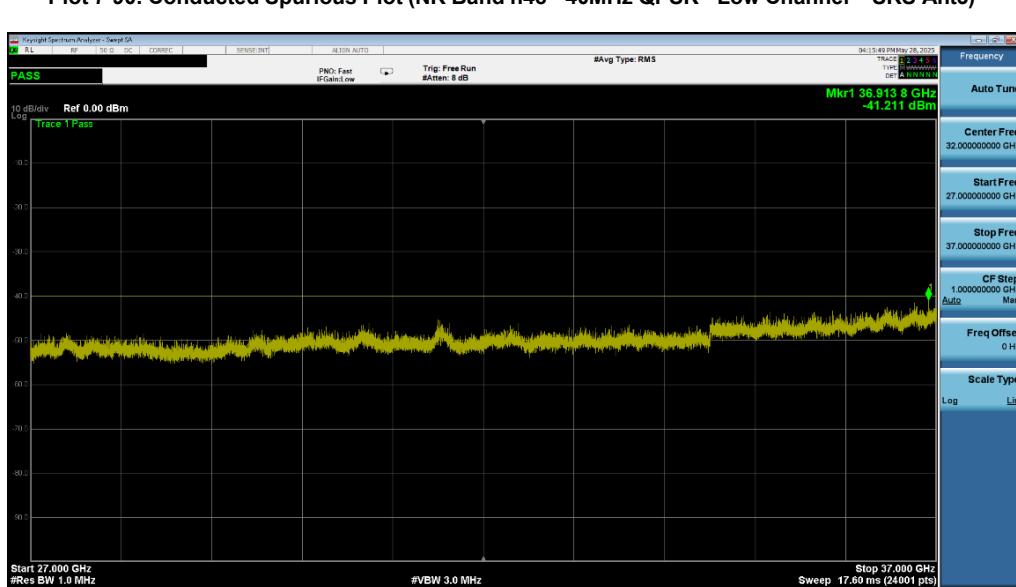
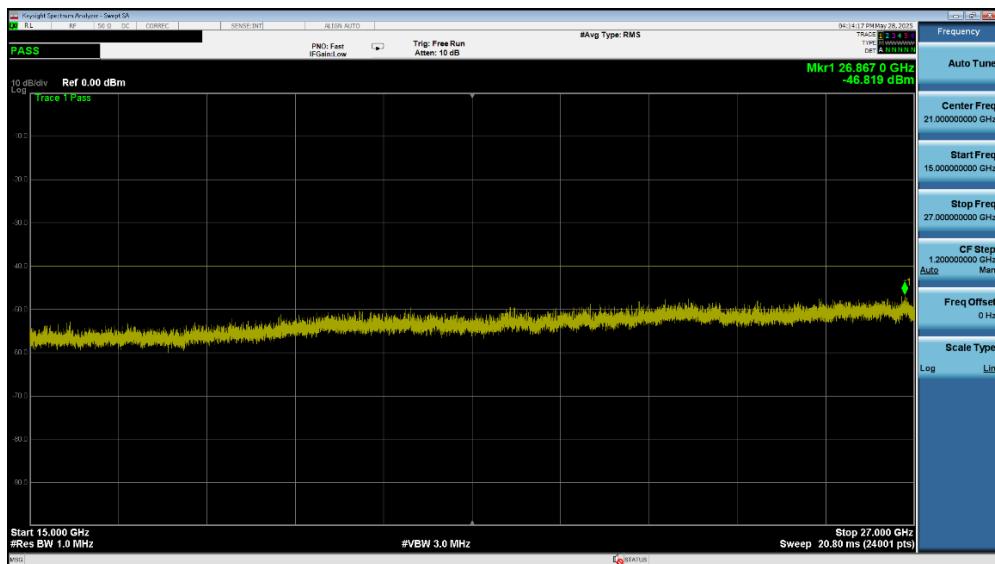
Table 7-21. Conducted Spurious Emission Test Results– UL MIMO Ant1

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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NR Band n48 – SRS Ant3

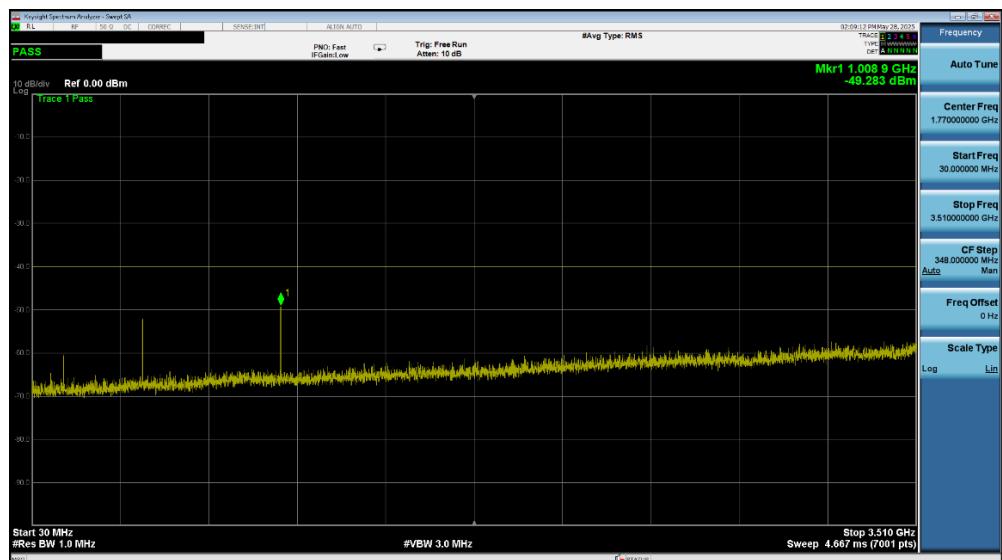


FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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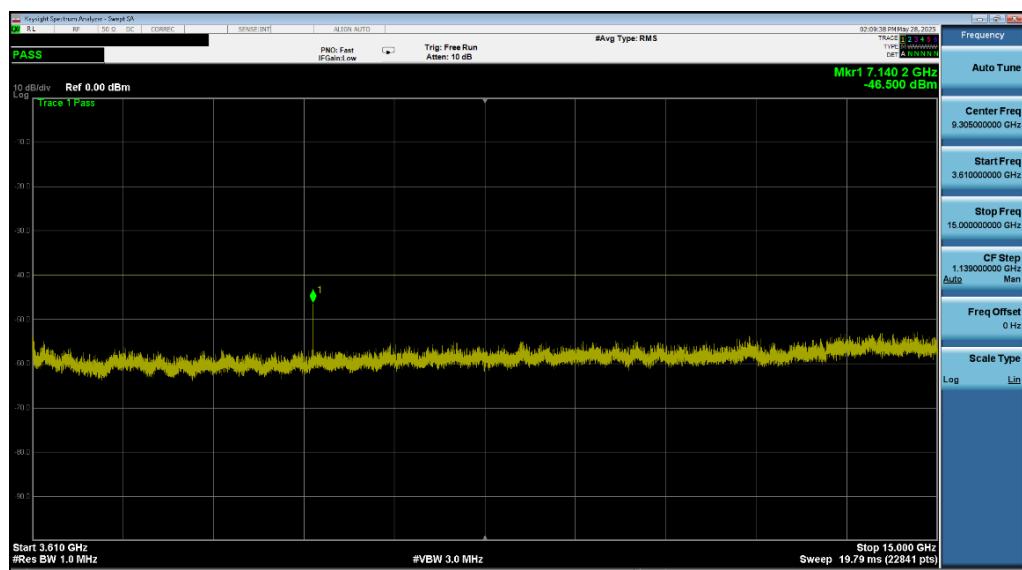


FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – SRS Ant4

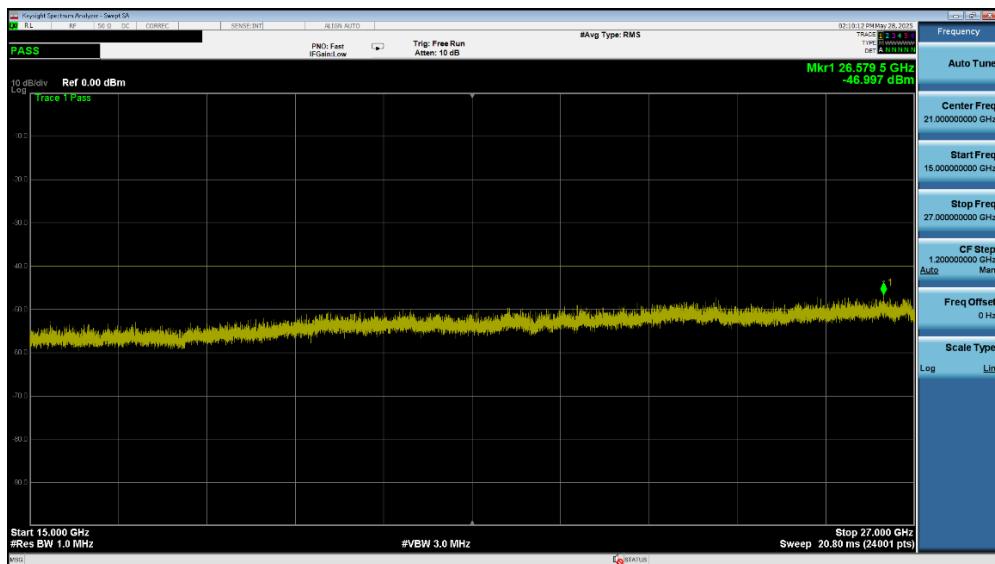


Plot 7-92. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – SRS Ant4)

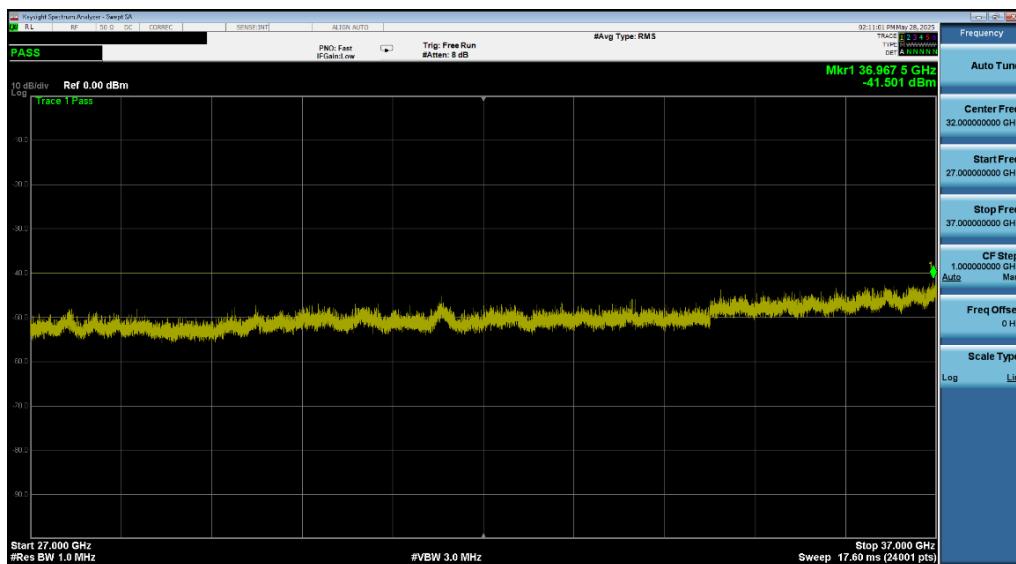


Plot 7-93. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – SRS Ant4)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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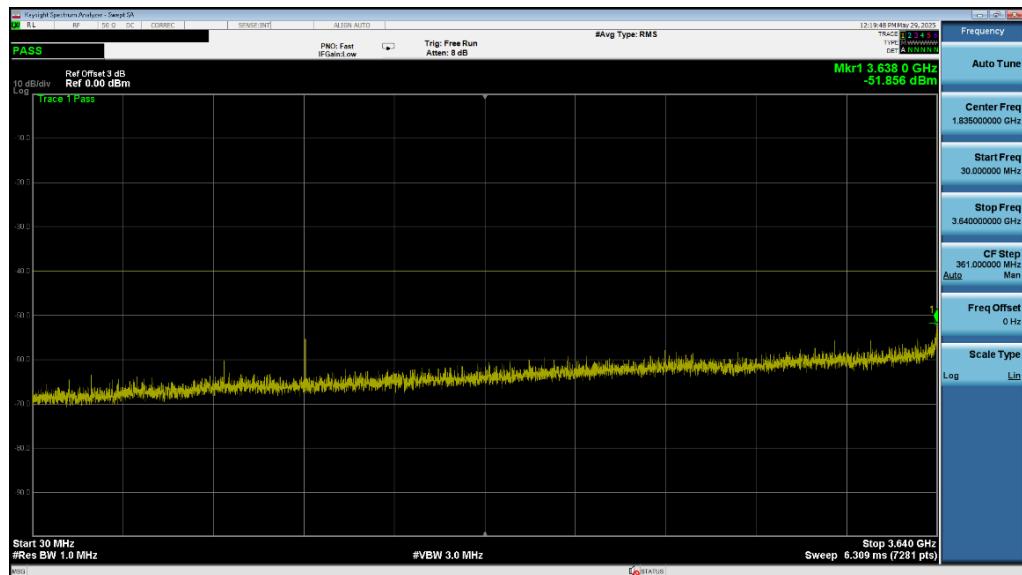
Plot 7-94. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – SRS Ant4)



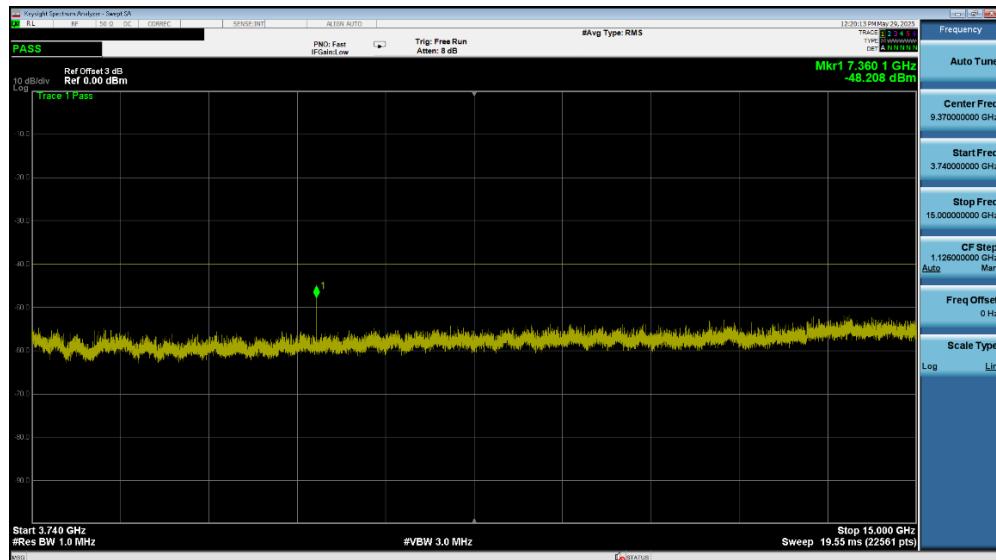
Plot 7-95. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – SRS Ant4)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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NR Band n48 – UL MIMO Ant6

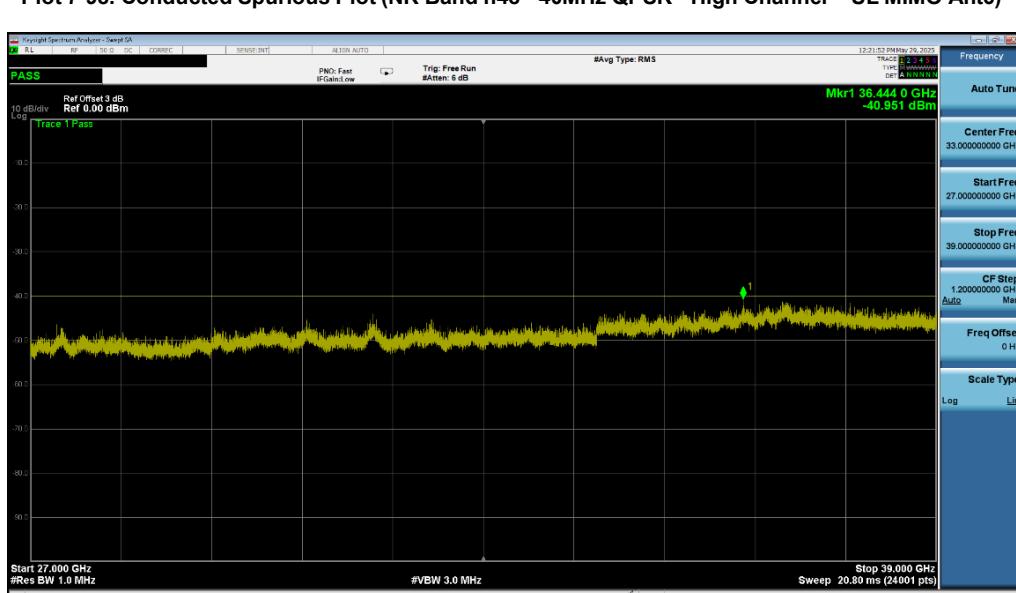
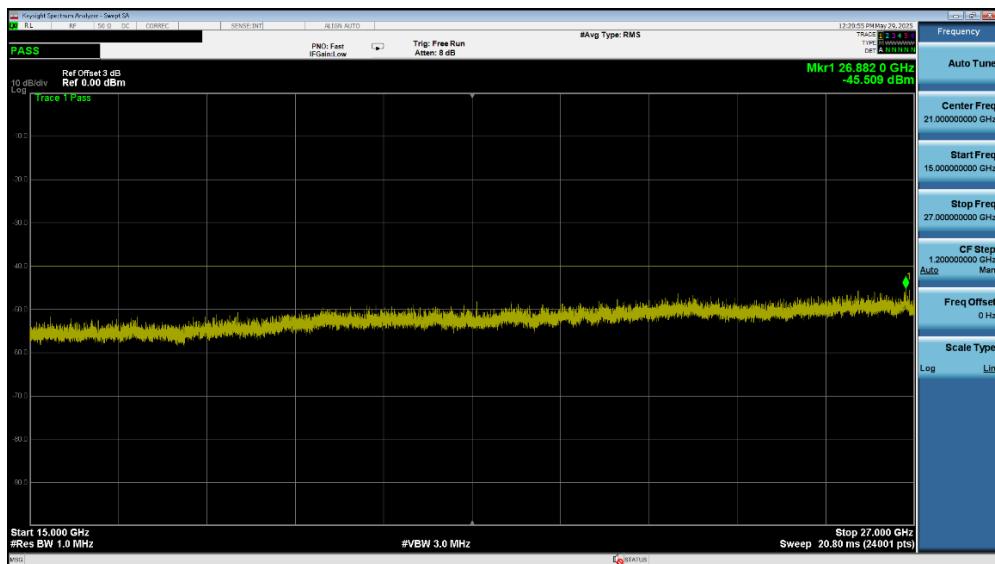


Plot 7-96. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – UL MIMO Ant6)



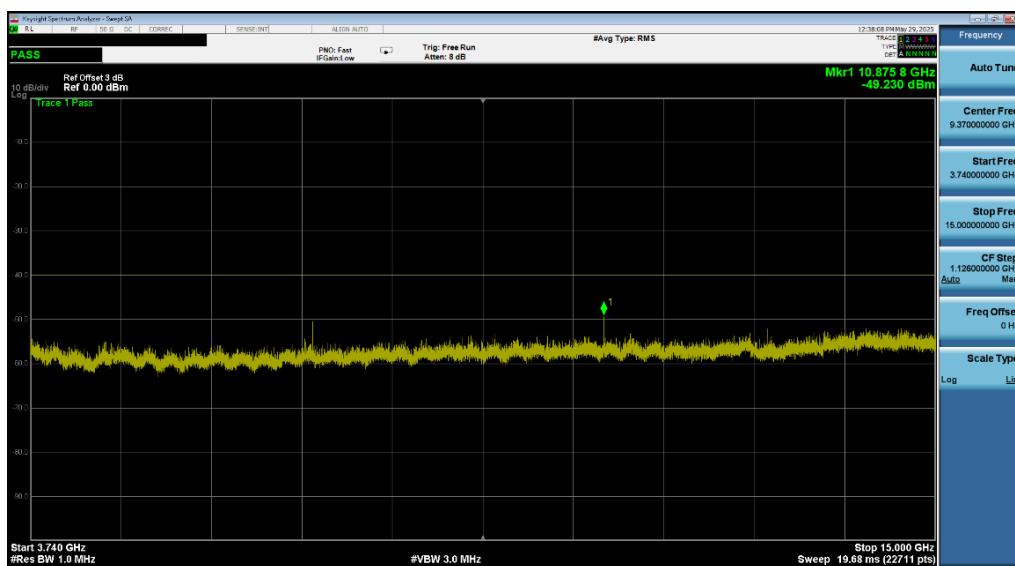
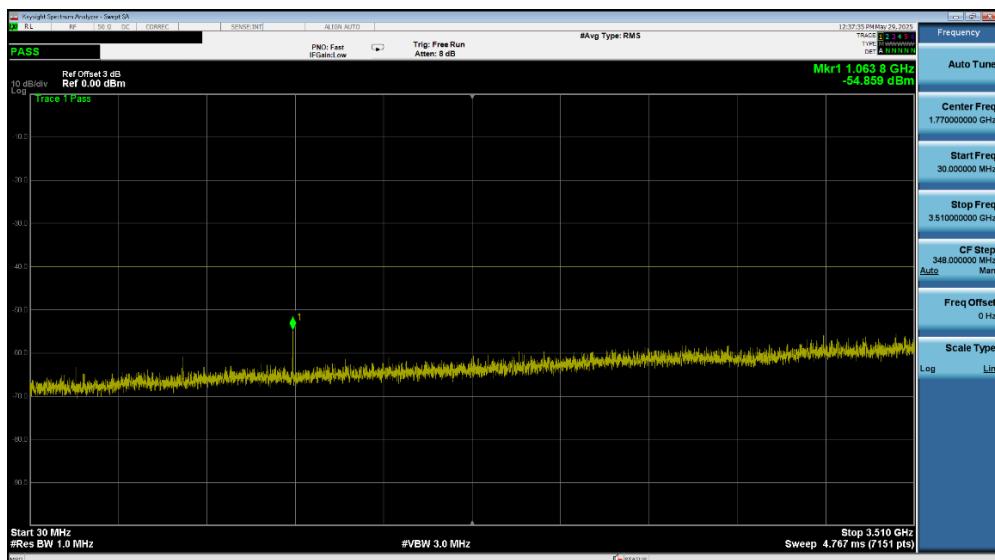
Plot 7-97. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – UL MIMO Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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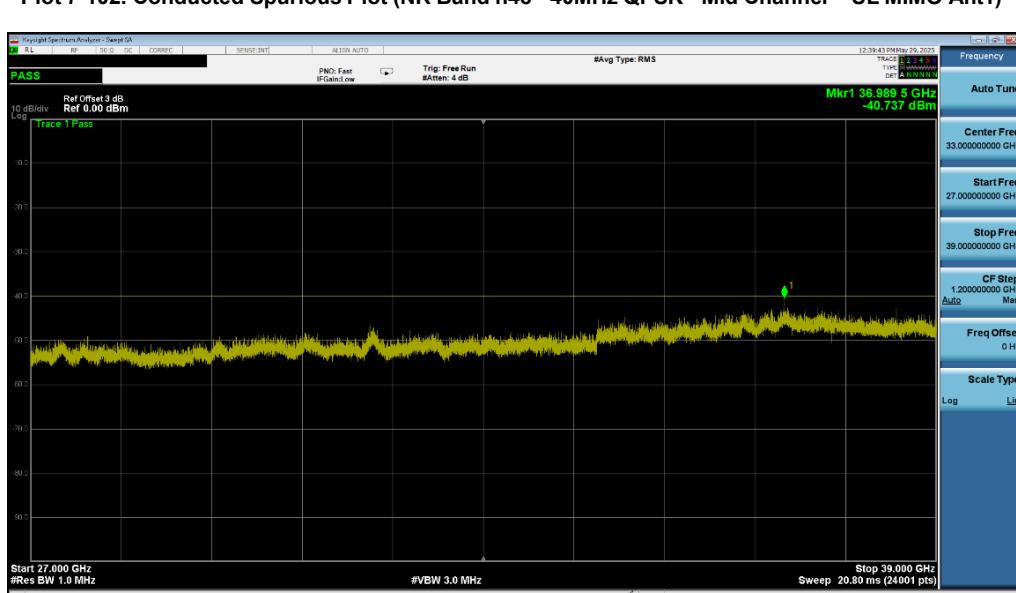
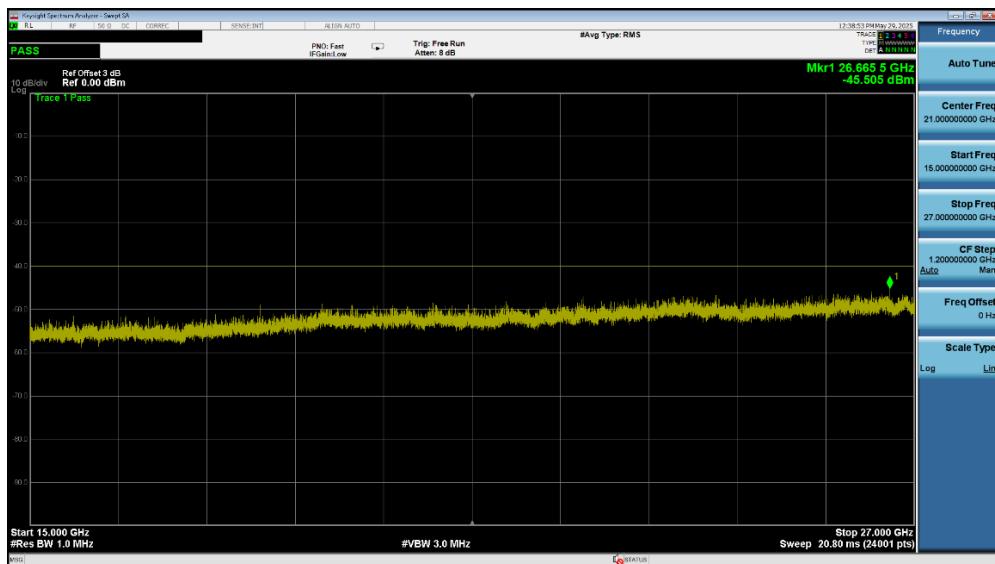


FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – UL MIMO Ant1



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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 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.

For an End User Device, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed $-13 \text{ dBm}/\text{MHz}$ within 0 to $B \text{ MHz}$ (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to $B \text{ MHz}$ below the lower CBSD-assigned channel edge. At all frequencies greater than $B \text{ MHz}$ above the upper CBSD assigned channel edge and less than $B \text{ MHz}$ below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed $-25 \text{ dBm}/\text{MHz}$. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed $-40 \text{ dBm}/\text{MHz}$.

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 $\geq 3 \times \text{RBW}$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average
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.

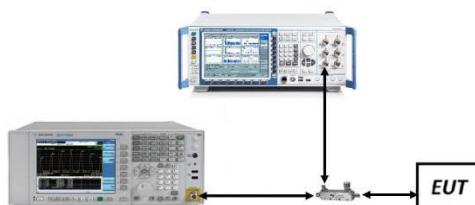


Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

1. Per 96.41(e)(3)(i), compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The fundamental 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 emissions 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.
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.

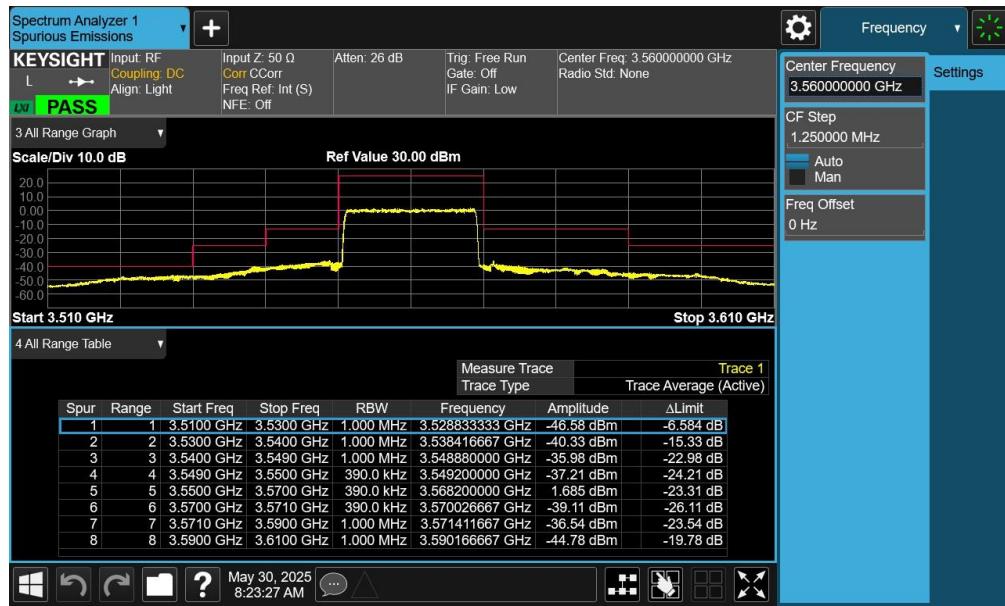
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B48	20 MHz	Low	Band Edge	-46.58	-40	-6.58
		Mid	Band Edge	-45.85	-25	-20.85
		High	Band Edge	-45.98	-40	-5.98
	15 MHz	Low	Band Edge	-47.74	-40	-7.74
		Mid	Band Edge	-41.34	-25	-16.34
		High	Band Edge	-46.75	-40	-6.75
	10 MHz	Low	Band Edge	-52.76	-40	-12.76
		Mid	Band Edge	-44.91	-25	-19.91
		High	Band Edge	-53.11	-40	-13.11
	5 MHz	Low	Band Edge	-23.19	-13	-10.19
		Mid	Band Edge	-43.53	-25	-18.53
		High	Band Edge	-26.95	-13	-13.95
ULCA LB48	20+20MHz	Low	Band Edge	-43.93	-40	-3.93
		Mid	Band Edge	-44.03	-25	-19.03
		High	Band Edge	-44.00	-40	-4.00
NR-n48	40MHz	Low	Band Edge	-47.50	-40	-7.50
		Mid	Band Edge	-42.76	-25	-17.76
		High	Band Edge	-43.33	-40	-3.33
	30MHz	Low	Band Edge	-48.14	-40	-8.14
		Mid	Band Edge	-46.00	-25	-21.00
		High	Band Edge	-45.97	-40	-5.97
	20MHz	Low	Band Edge	-47.73	-40	-7.73
		Mid	Band Edge	-43.88	-25	-18.88
		High	Band Edge	-44.98	-40	-4.98
	15MHz	Low	Band Edge	-49.76	-40	-9.76
		Mid	Band Edge	-47.07	-25	-22.07
		High	Band Edge	-48.51	-40	-8.51
	10MHz	Low	Band Edge	-51.06	-40	-11.06
		Mid	Band Edge	-43.64	-25	-18.64
		High	Band Edge	-51.05	-40	-11.05

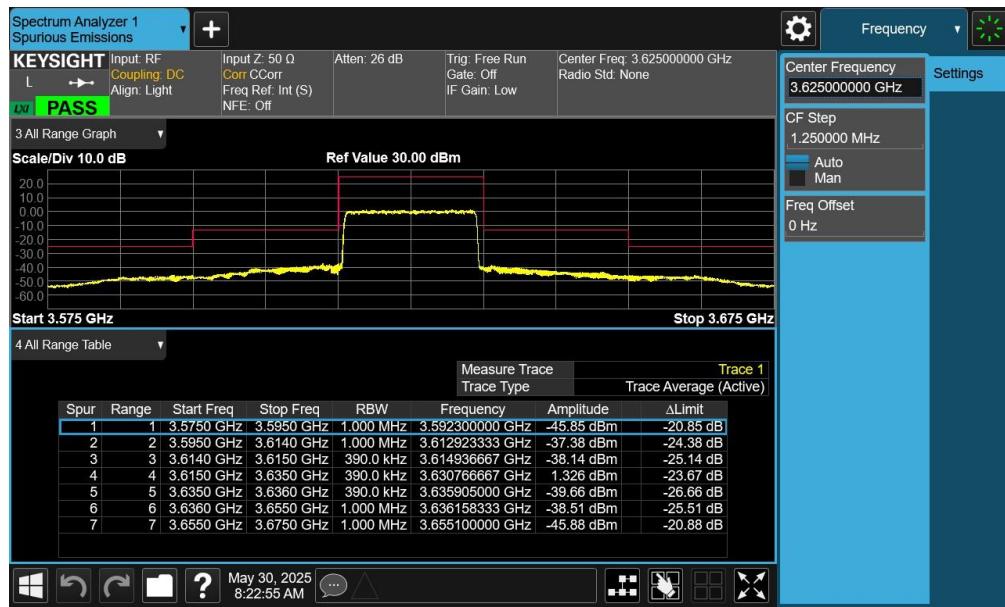
Table 7-22. Conducted Band Edge Test Results – Ant6

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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LTE Band 48 – Ant6

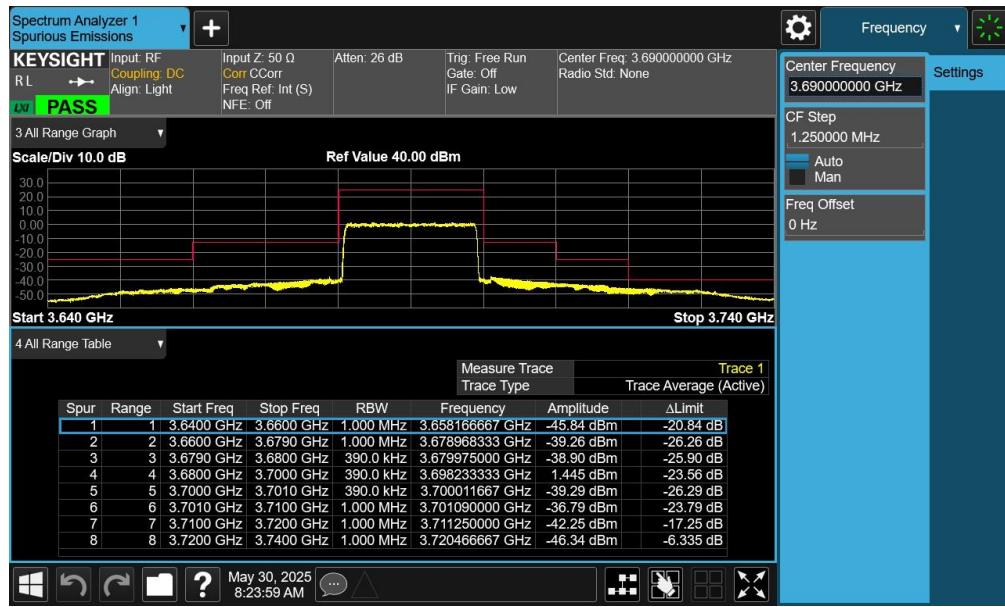


Plot 7-104. Channel - Ant6 Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel - Ant6)



Plot 7-105. Channel - Ant6 Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant6)

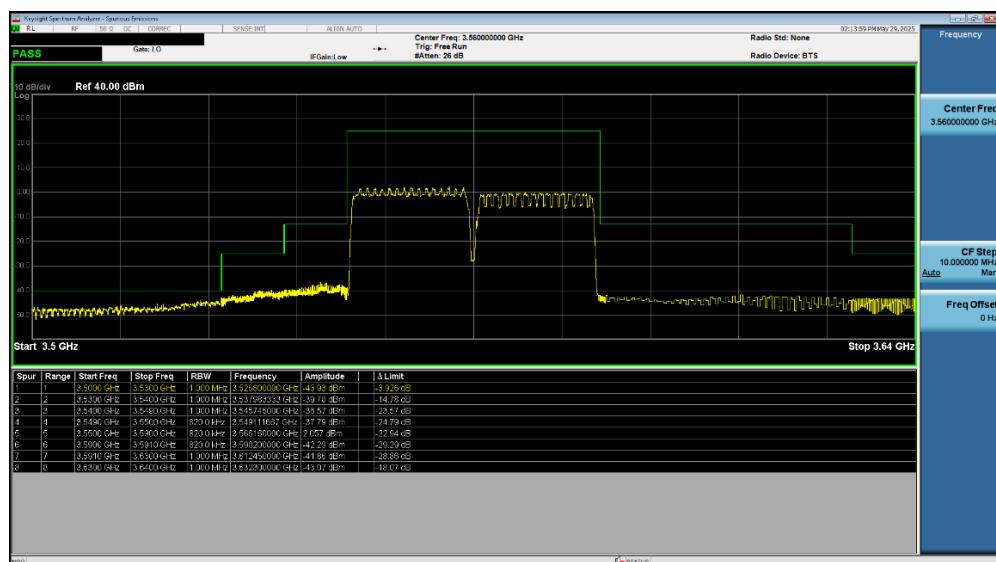
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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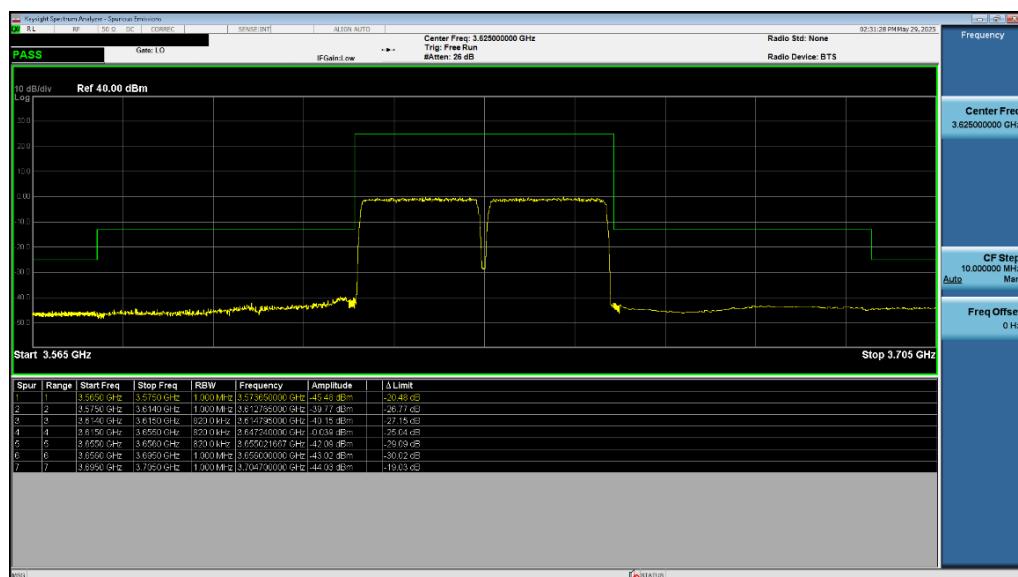
Plot 7-106. Channel - Ant6 Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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ULCA LB48 – Ant6

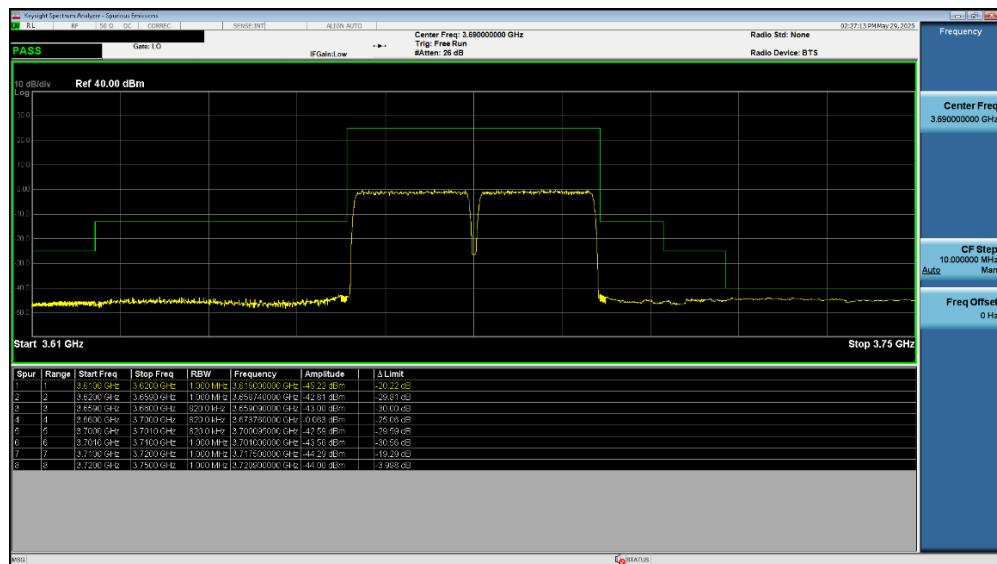


Plot 7-107. Channel - Ant6 Edge Plot (LTE Band 48 – 20+20MHz QPSK - Low Channel - Ant6)



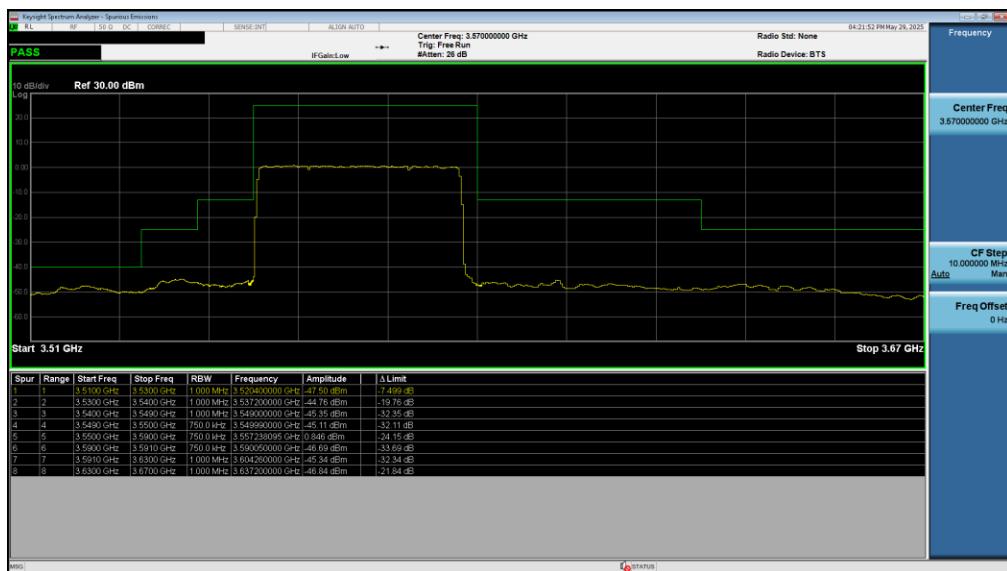
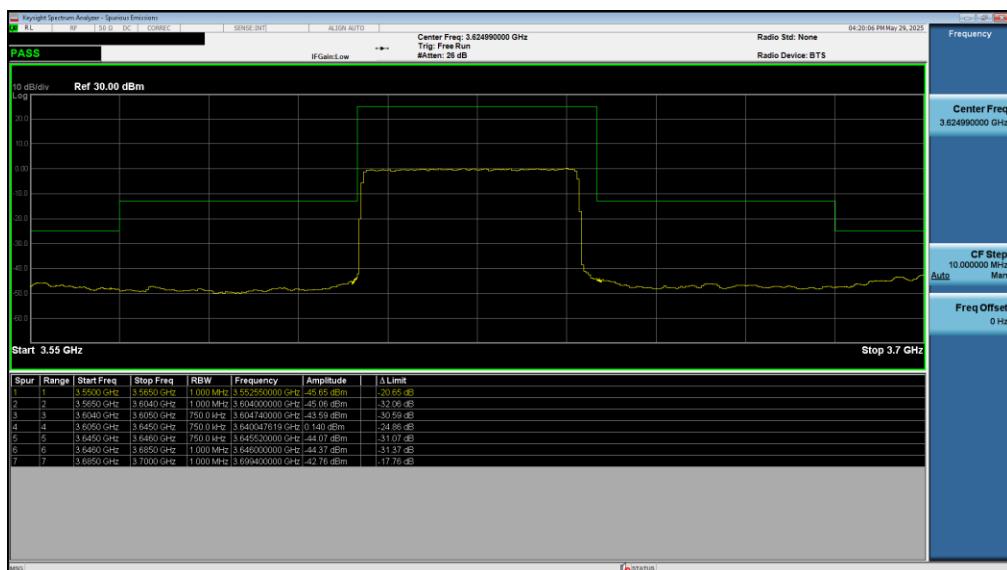
Plot 7-108. Channel - Ant6 Edge Plot (LTE Band 48 – 20+20MHz QPSK - Mid Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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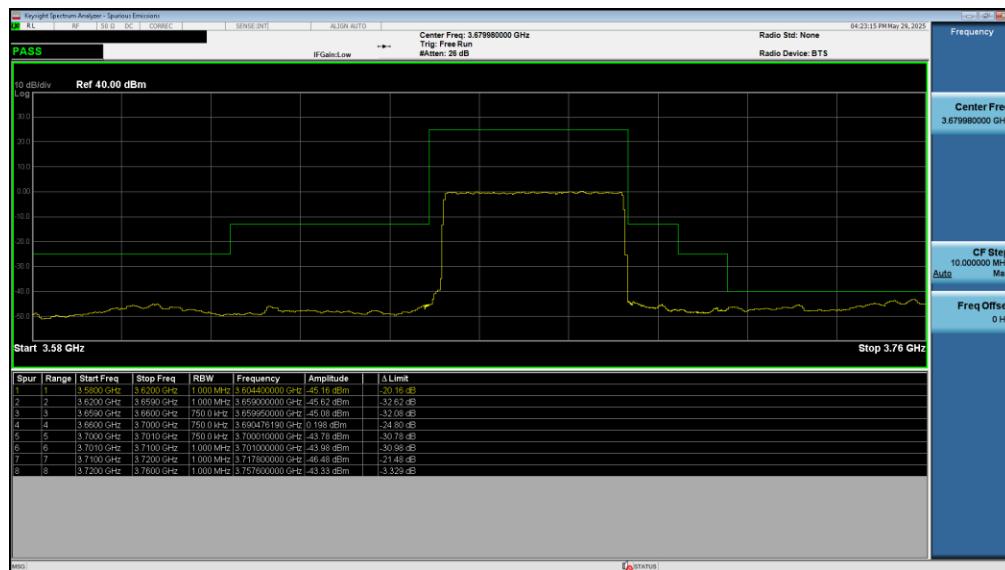


Plot 7-109. Channel - Ant6 Edge Plot (LTE Band 48 – 20+20MHz QPSK - High Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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NR Band n48 – Ant6

Plot 7-110. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Low Channel - Ant6)

Plot 7-111. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Mid Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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Plot 7-112. Channel Edge Plot (NR Band n48 - 20MHz QPSK - High Channel - Ant6)

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