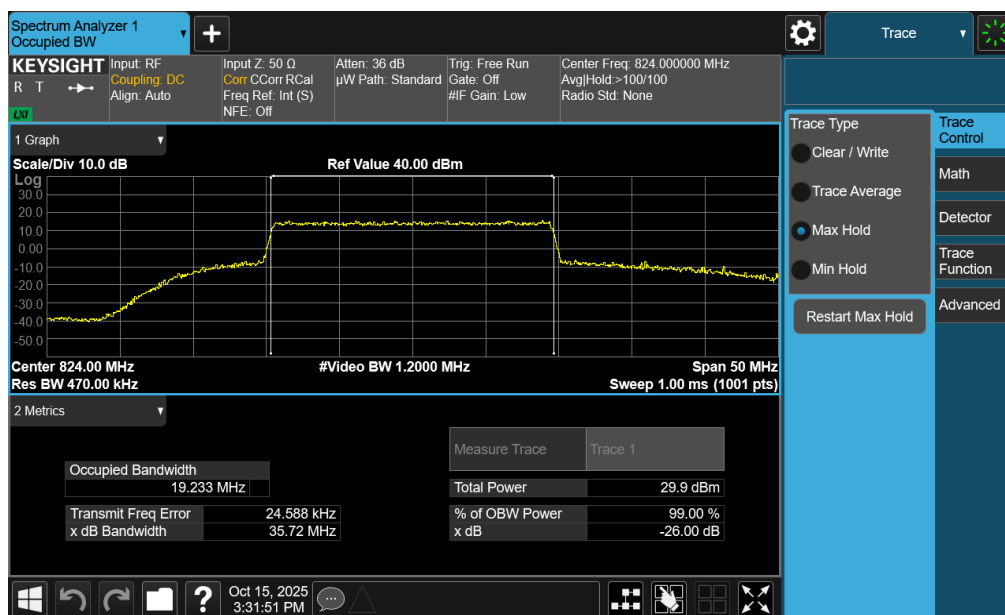
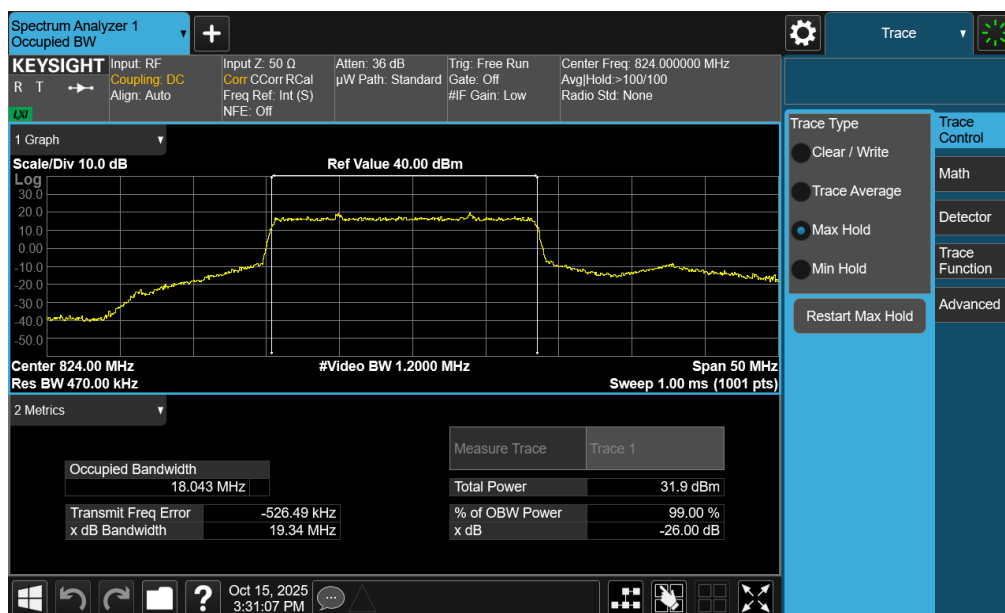
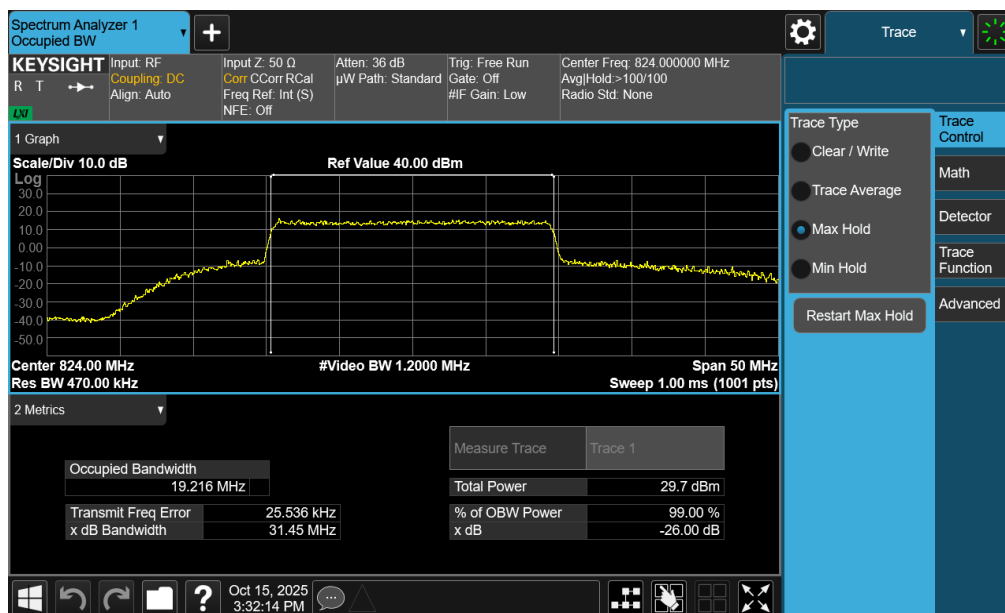


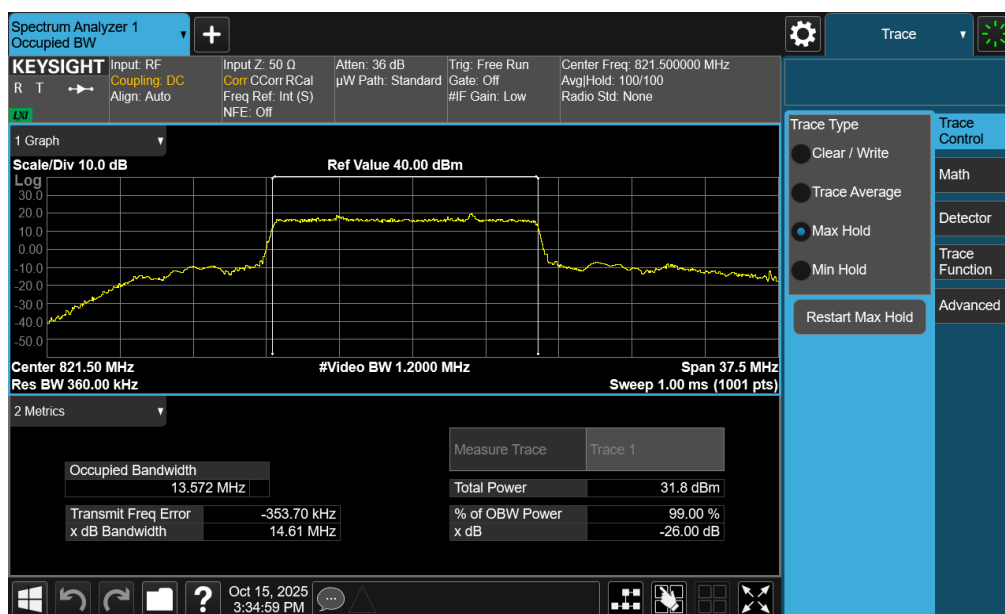
NR Band n26 - Ant 2



FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 56 of 127

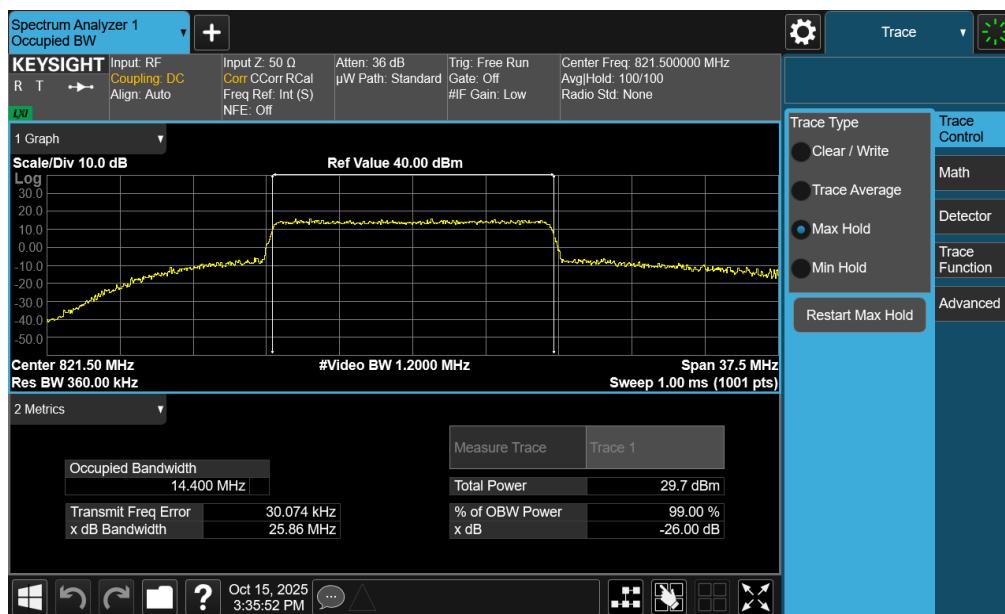
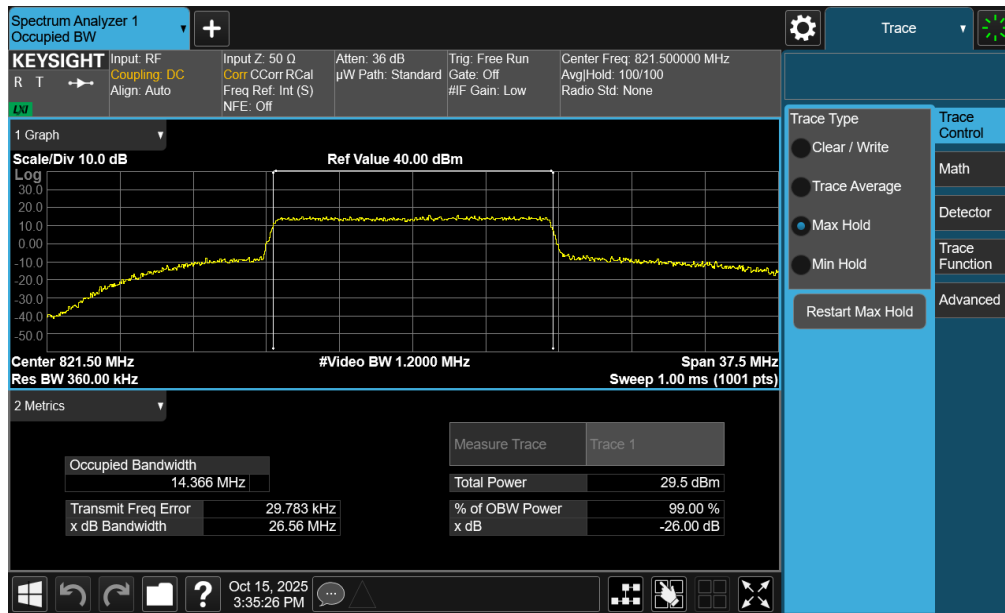


Plot 7-74. Occupied Bandwidth Plot (NR Band n26 - 20MHz 16-QAM - Full RB)

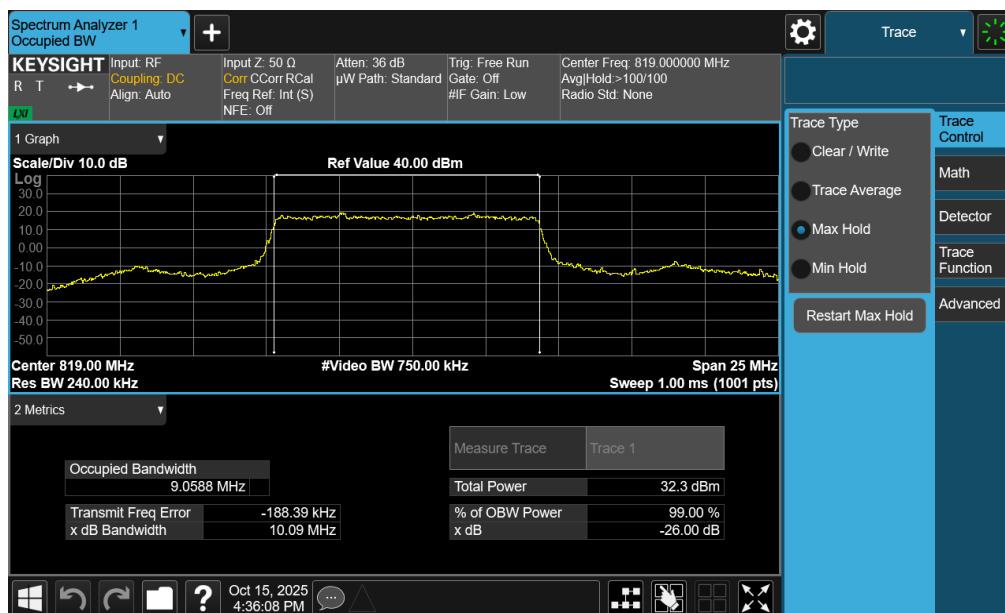


Plot 7-75. Occupied Bandwidth Plot (NR Band n26 - 15MHz $\pi/2$ BPSK - Full RB)

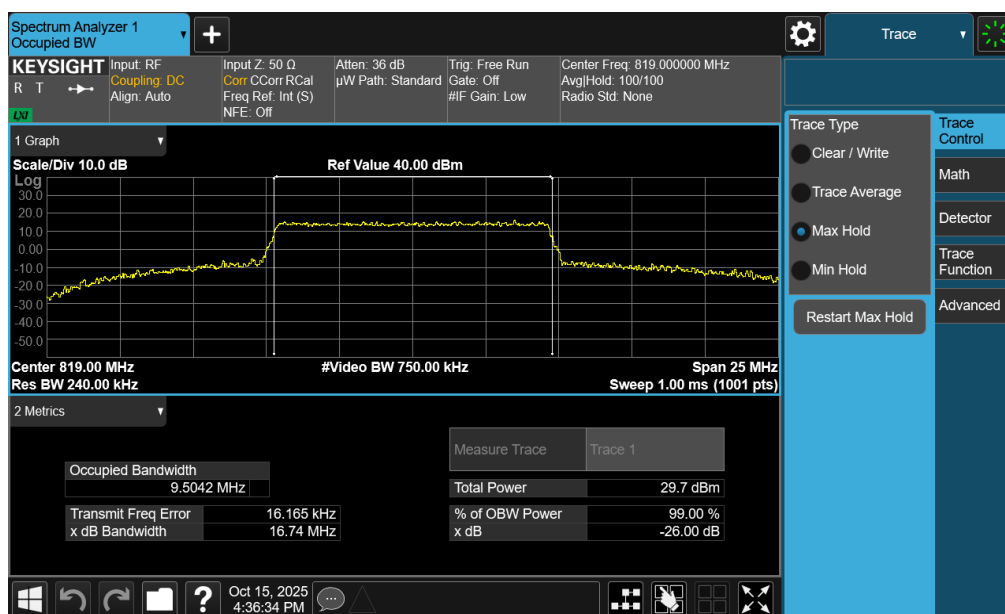
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 57 of 127



FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 58 of 127

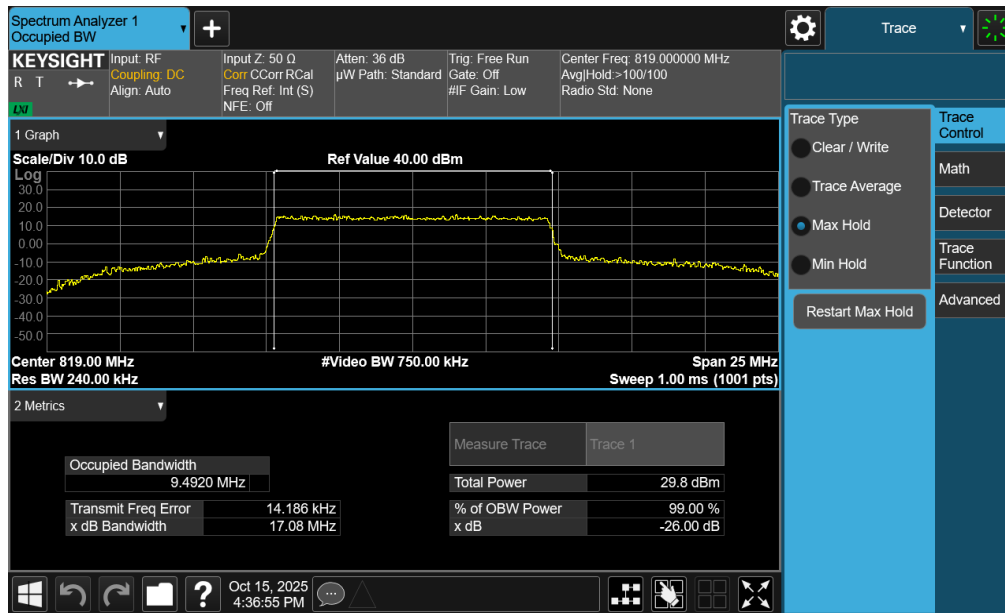


Plot 7-78. Occupied Bandwidth Plot (NR Band n26 - 10MHz $\pi/2$ BPSK - Full RB)

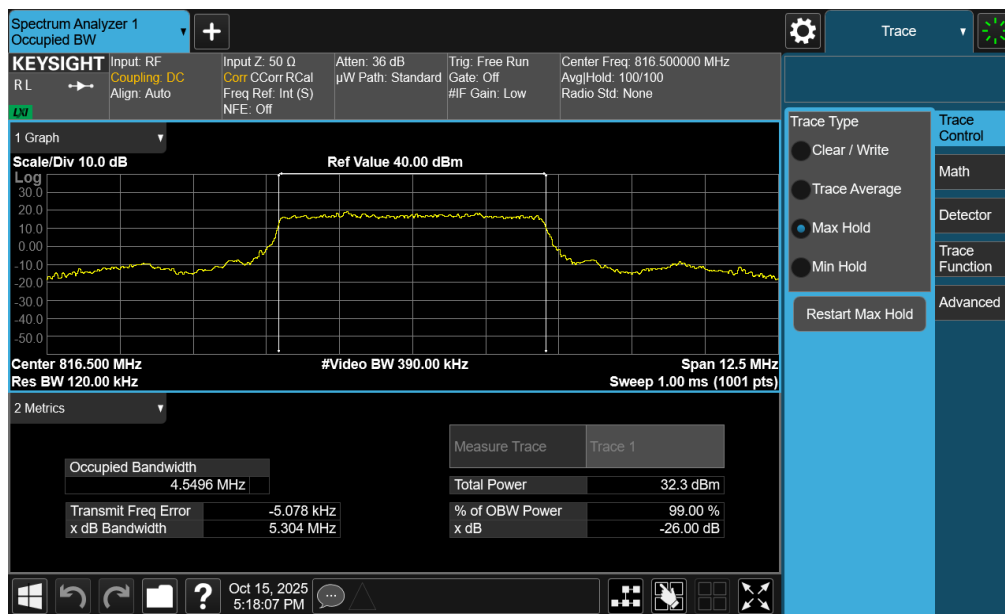


Plot 7-79. Occupied Bandwidth Plot (NR Band n26 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 59 of 127

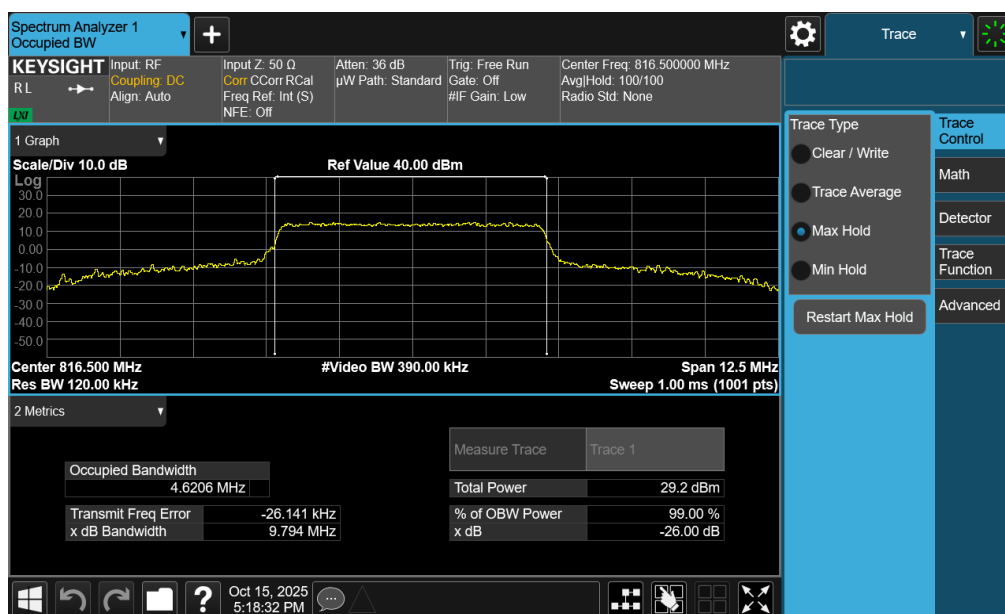
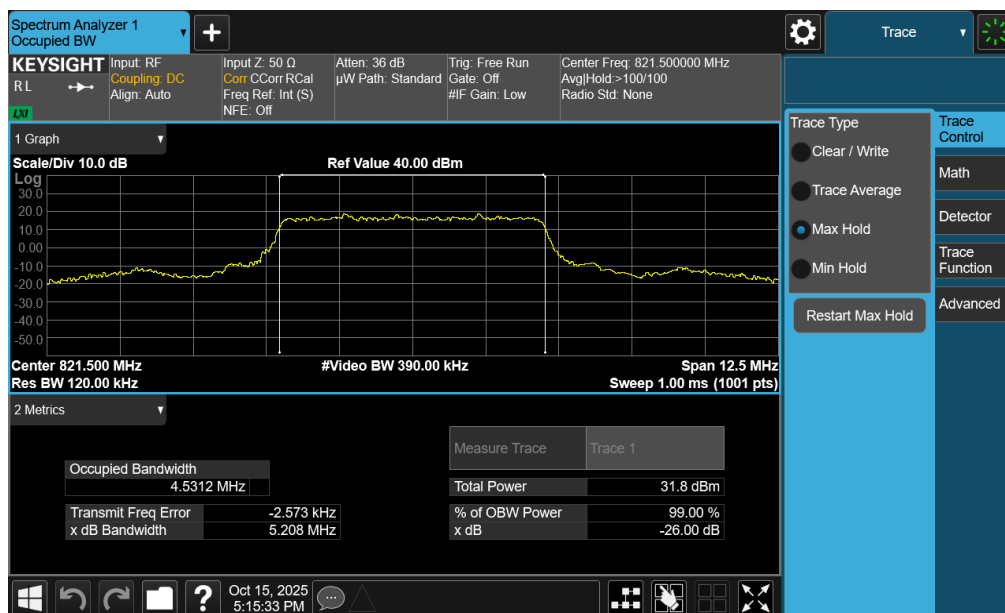


Plot 7-80. Occupied Bandwidth Plot (NR Band n26 - 10MHz 16-QAM - Full RB)

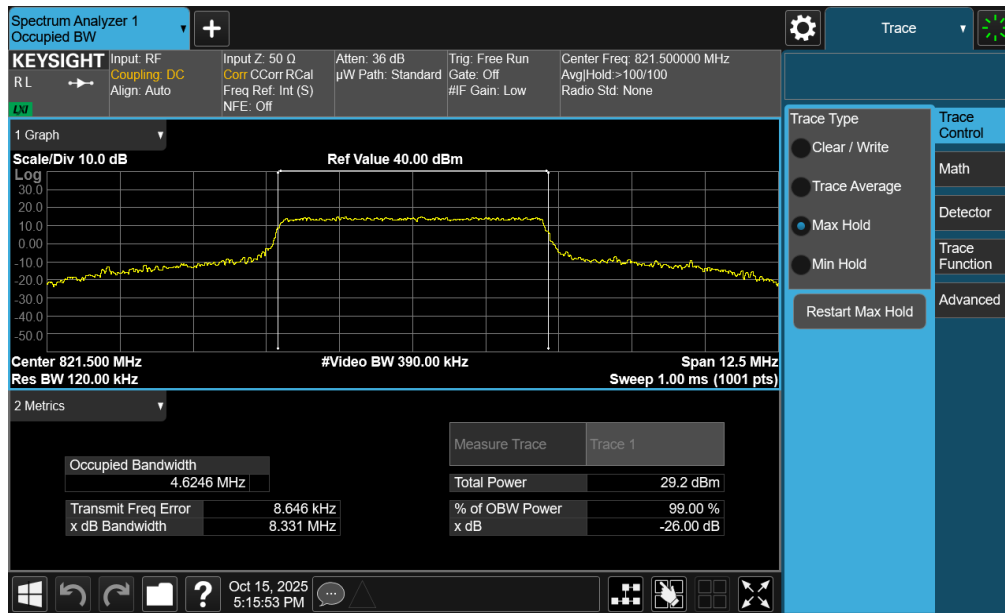


Plot 7-81. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK Low Channel - Full RB)

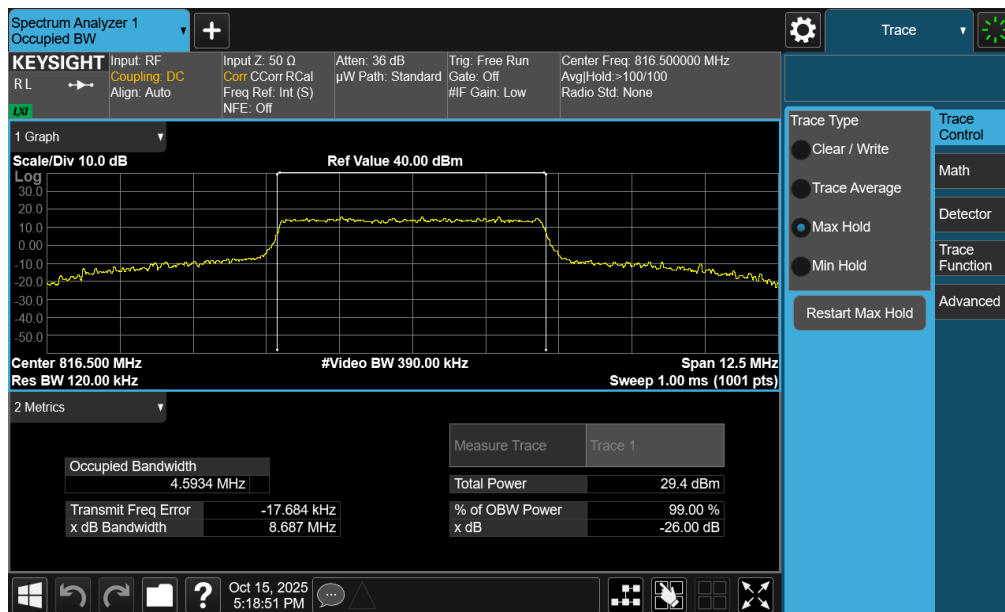
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 60 of 127



FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 61 of 127



Plot 7-84. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK High Channel - Full RB)



Plot 7-85. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM Low Channel - Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 62 of 127

V11.3 5/14/2025

7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

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

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

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
2. RBW $\geq$ 100kHz
3. VBW $\geq$ 3 x RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

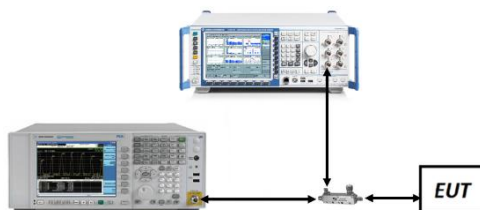


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 22H and 90, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

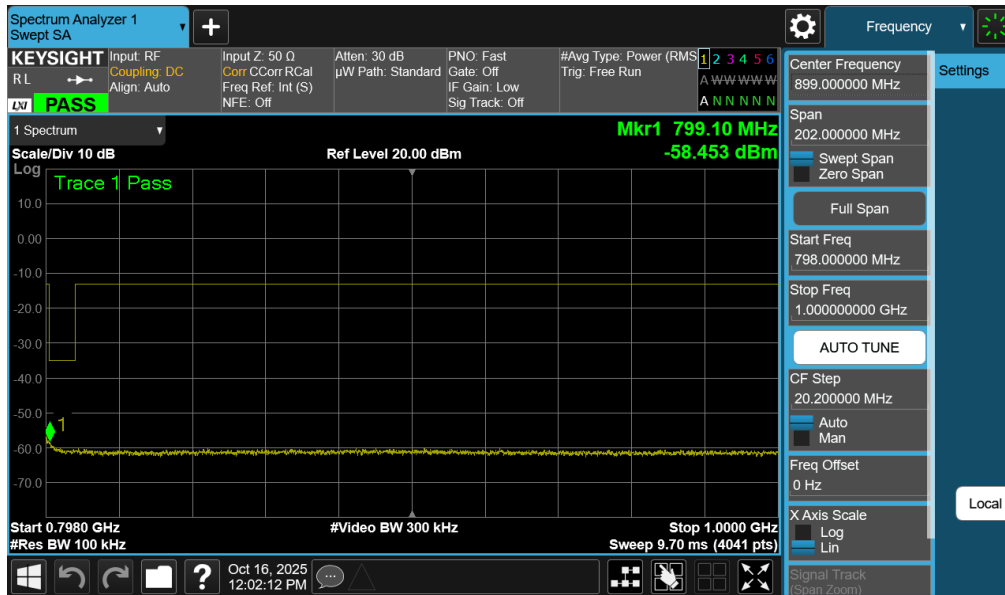
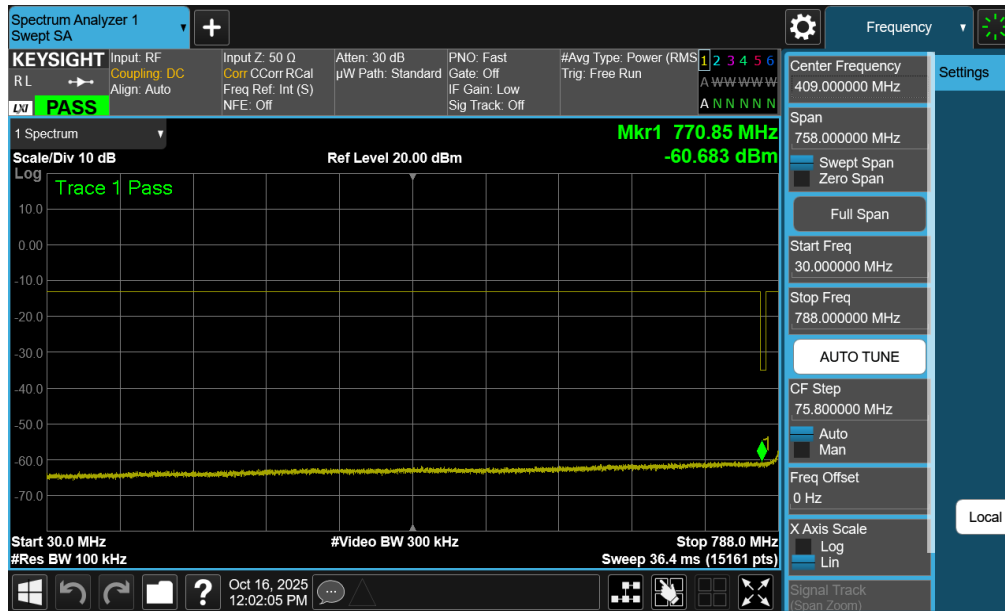
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 64 of 127

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B14	10MHz	Mid	30.0 - 788.0	-60.68	-35	-25.68
		Mid	798.0 - 1000.0	-58.45	-35	-23.45
		Mid	1000.0 - 10000.0	-39.60	-13	-26.60
LTE-B26	15 MHz	Mid	30.0 - 814.0	-47.73	-13	-34.73
		Mid	824.0 - 1000.0	-32.01	-13	-19.01
		Mid	1000.0 - 10000.0	-33.20	-13	-20.20
NR-n26	20 MHz	Mid	30.0 - 814.0	-52.78	-13	-39.78
		Mid	824.0 - 1000.0	-48.14	-13	-35.14
		Mid	1000.0 - 10000.0	-33.35	-13	-20.35
NR-n14	10 MHz	Mid	30.0 - 788.0	-61.33	-35	-26.33
		Mid	824.0 - 1000.0	-59.70	-35	-24.70
		Mid	1000.0 - 10000.0	-42.64	-13	-29.64

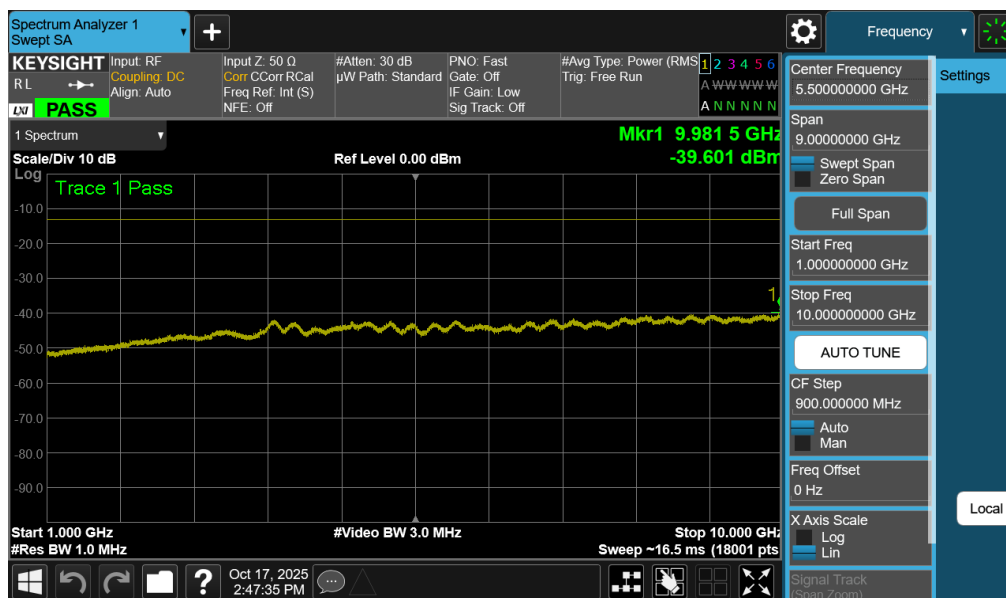
Table 7-8. Conducted Spurious Test Results – Ant 1

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 65 of 127

LTE Band 14 - Ant 1

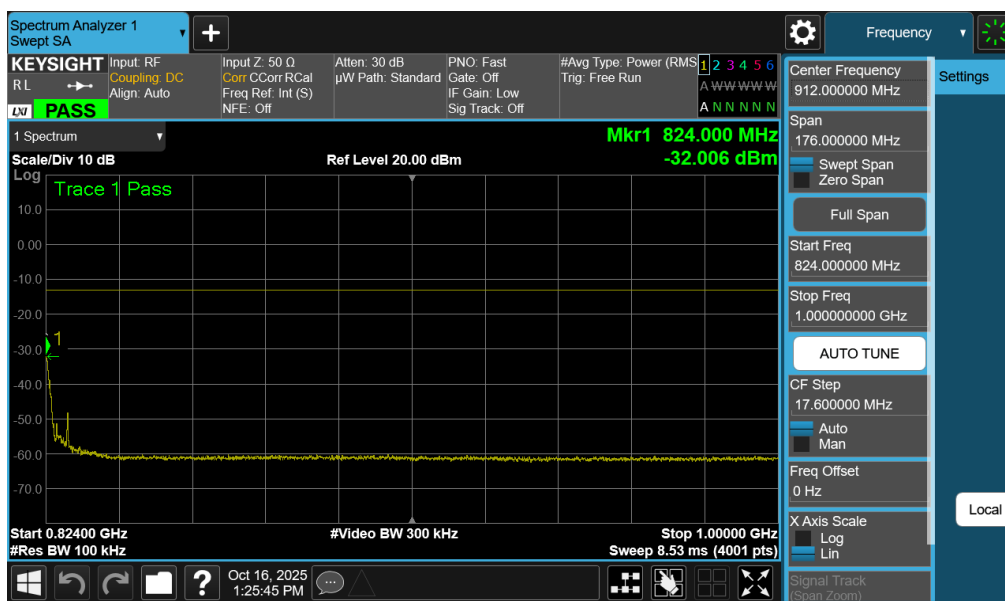
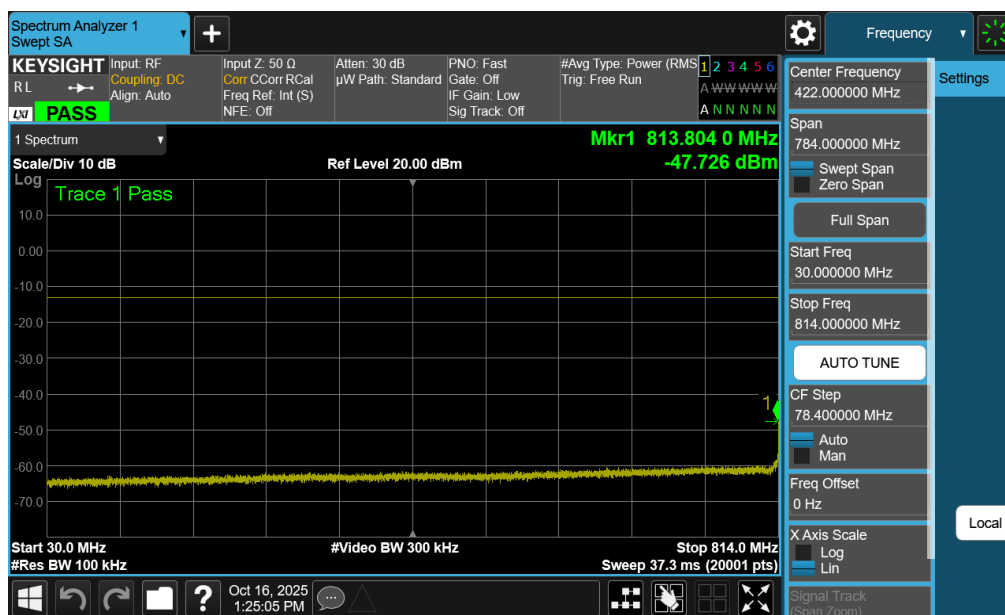


FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 66 of 127

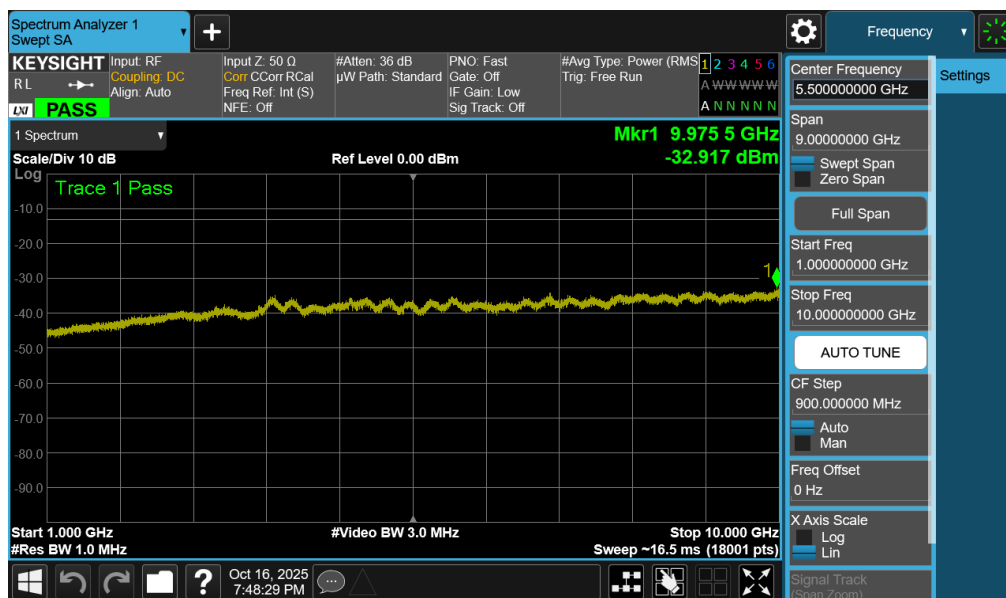


FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 67 of 127

LTE Band 26 - Ant 1



FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 68 of 127



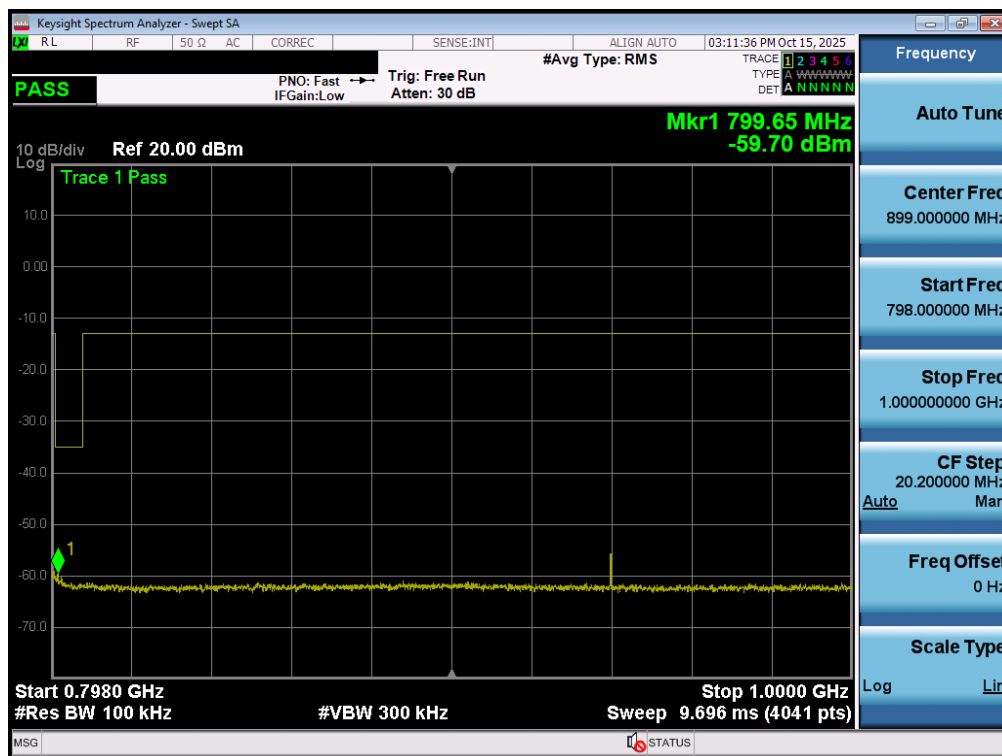
Plot 7-92. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 69 of 127

NR Band n14 - Ant 1

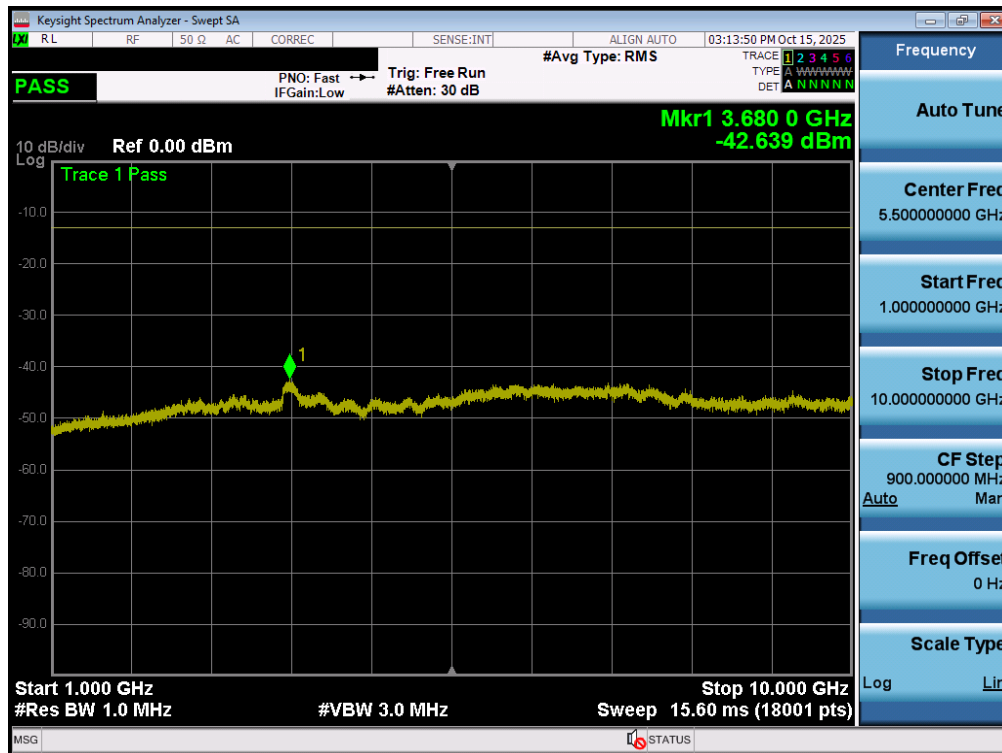


Plot 7-93. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-94. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 70 of 127

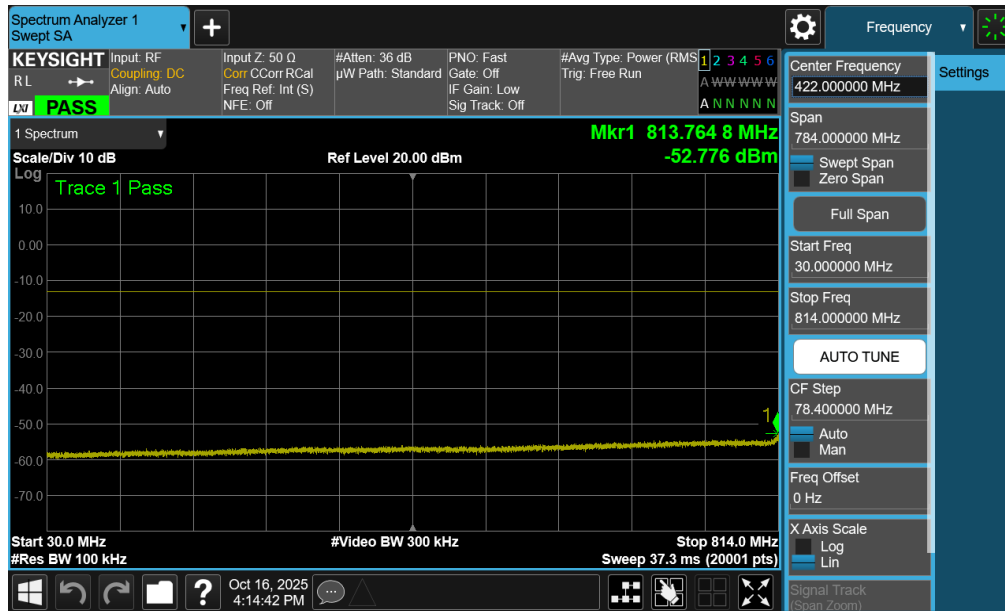


Plot 7-95. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)

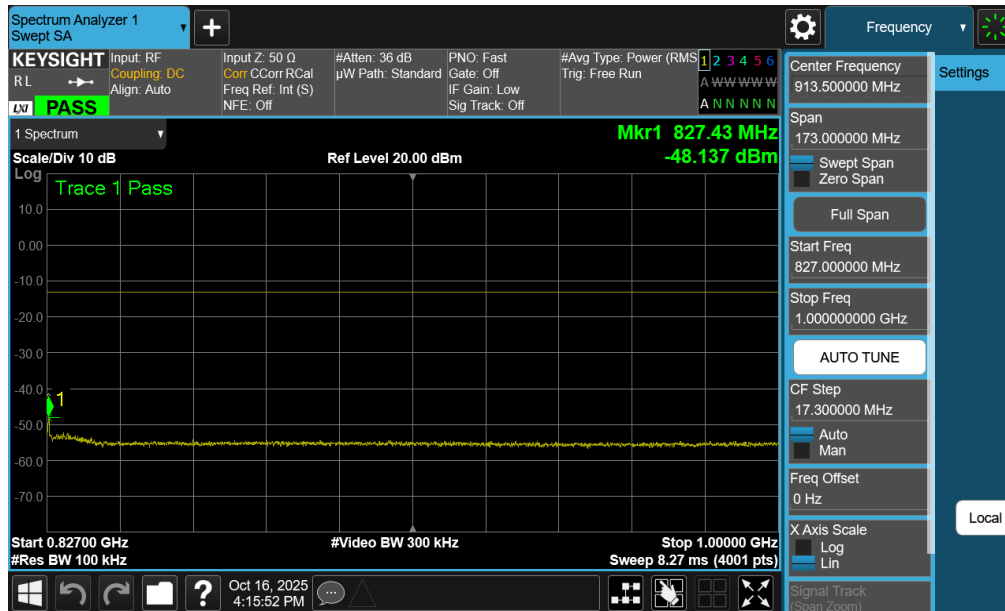
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 71 of 127



NR Band n26 - Ant 1

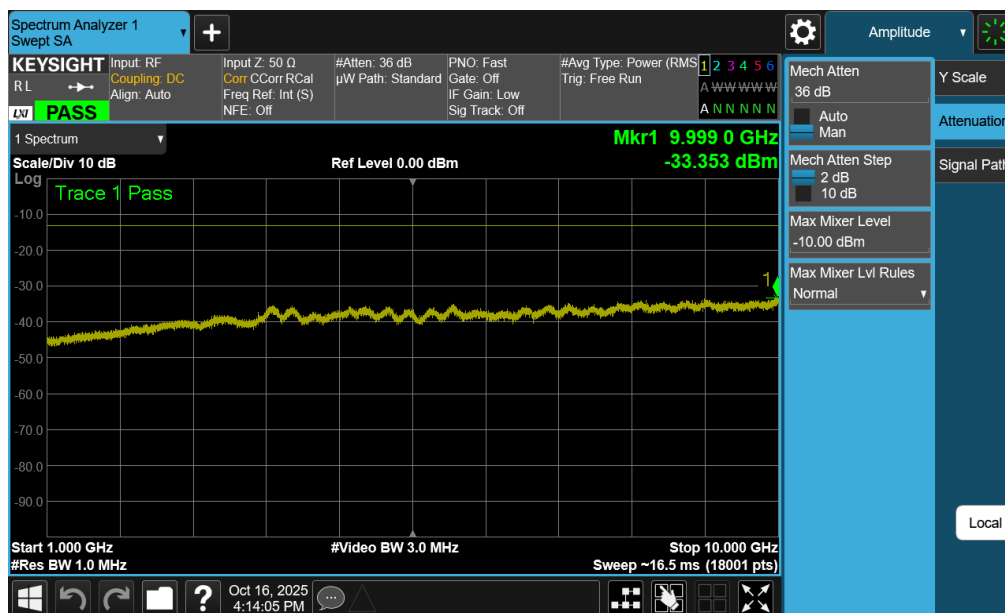


Plot 7-96. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-97. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 72 of 127



Plot 7-98. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)

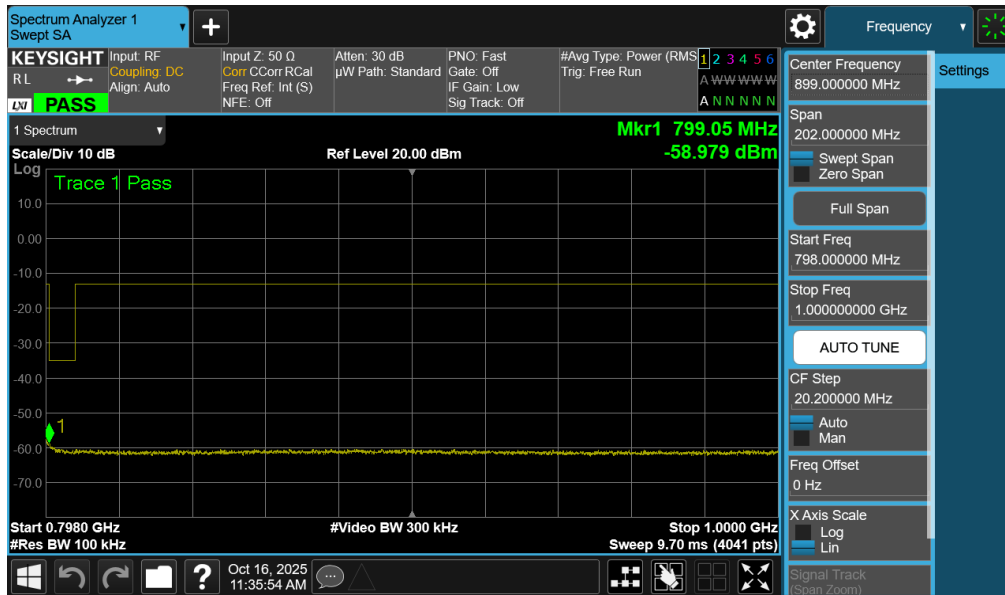
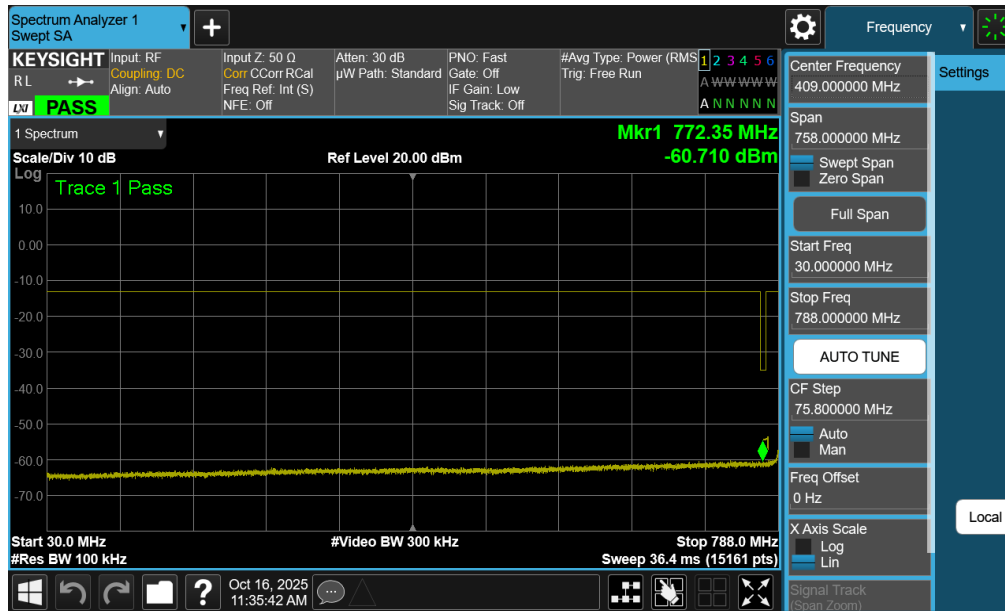
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 73 of 127

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B14	10MHz	Mid	30.0 - 788.0	-60.71	-35	-25.71
		Mid	798.0 - 1000.0	-58.98	-35	-23.98
		Mid	1000.0 - 10000.0	-39.60	-13	-26.60
LTE-B26	15 MHz	Mid	30.0 - 814.0	-46.49	-13	-33.49
		Mid	824.0 - 1000.0	-31.66	-13	-18.66
		Mid	1000.0 - 10000.0	-32.92	-13	-19.92
NR-n26	20 MHz	Mid	30.0 - 814.0	-57.75	-13	-44.75
		Mid	824.0 - 1000.0	-50.72	-13	-37.72
		Mid	1000.0 - 10000.0	-39.61	-13	-26.61
NR-n14	10 MHz	Mid	30.0 - 788.0	-60.63	-35	-25.63
		Mid	824.0 - 1000.0	-59.17	-35	-24.17
		Mid	1000.0 - 10000.0	-41.51	-13	-28.51

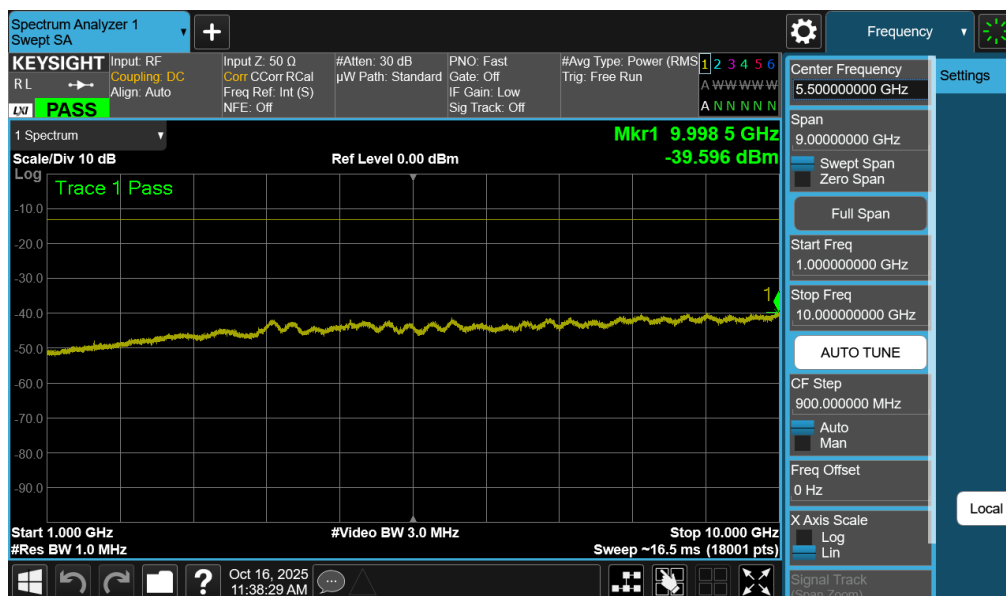
Table 7-9. Conducted Spurious Test Results – Ant 1

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 74 of 127

LTE Band 14 - Ant 2



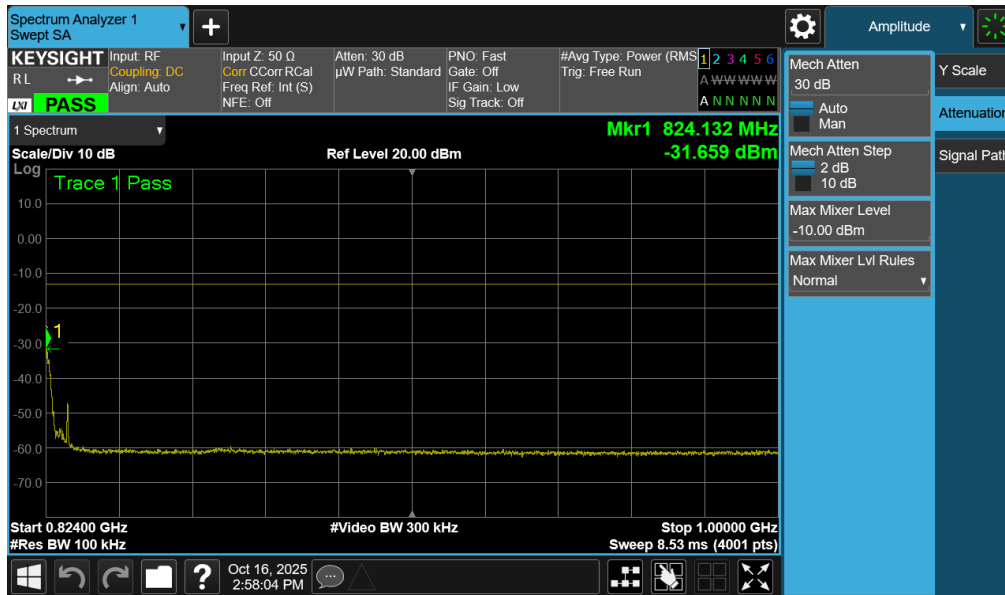
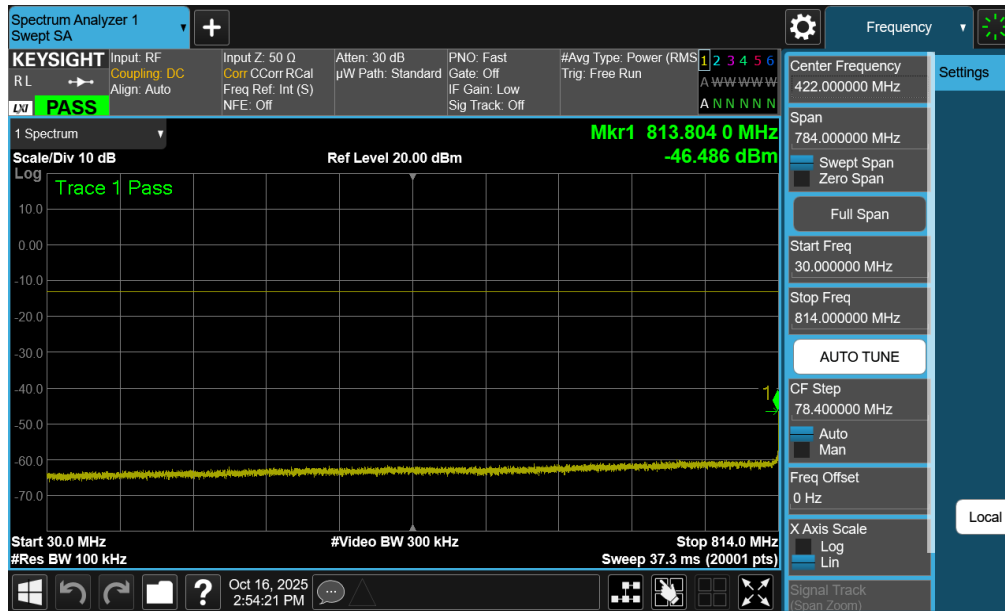
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 75 of 127



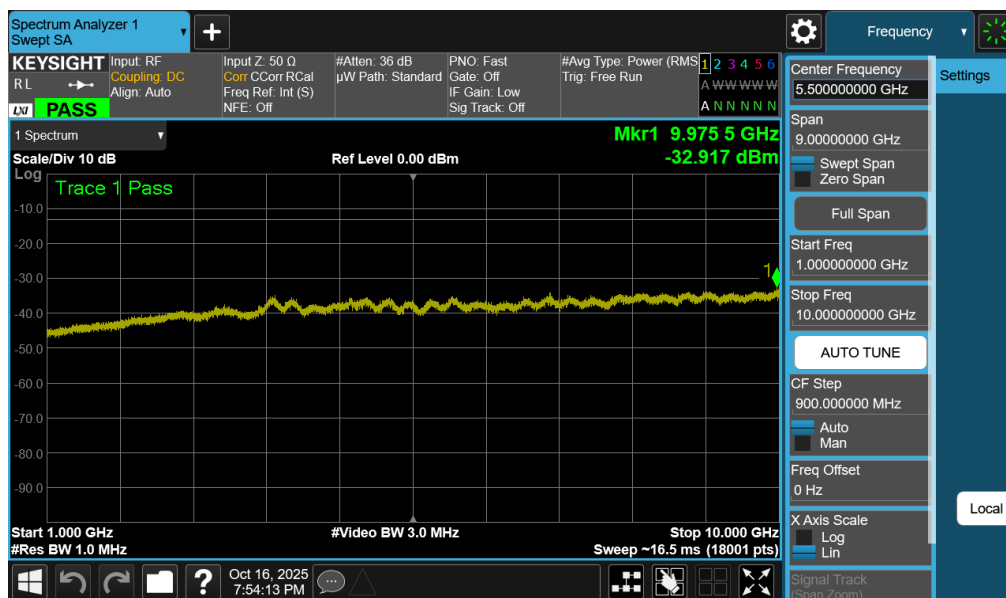
Plot 7-101. Conducted Spurious Plot (LTE Band 14 - 15MHz QPSK - RB Size 1, RB Offset 25)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 76 of 127

LTE Band 26 -Ant 2



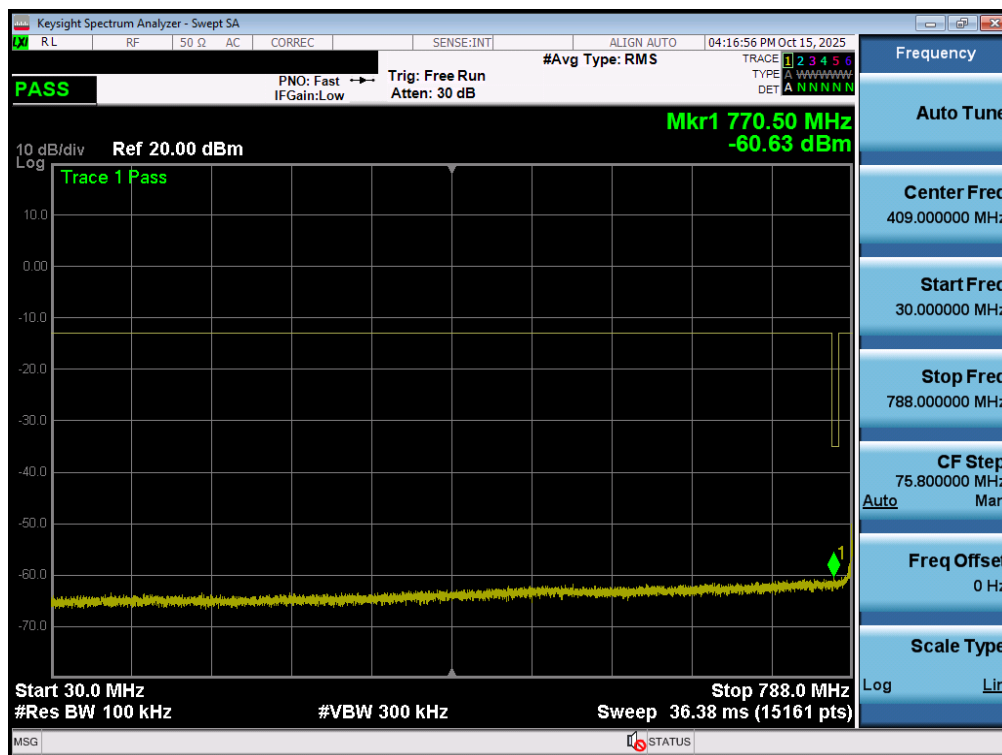
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 77 of 127



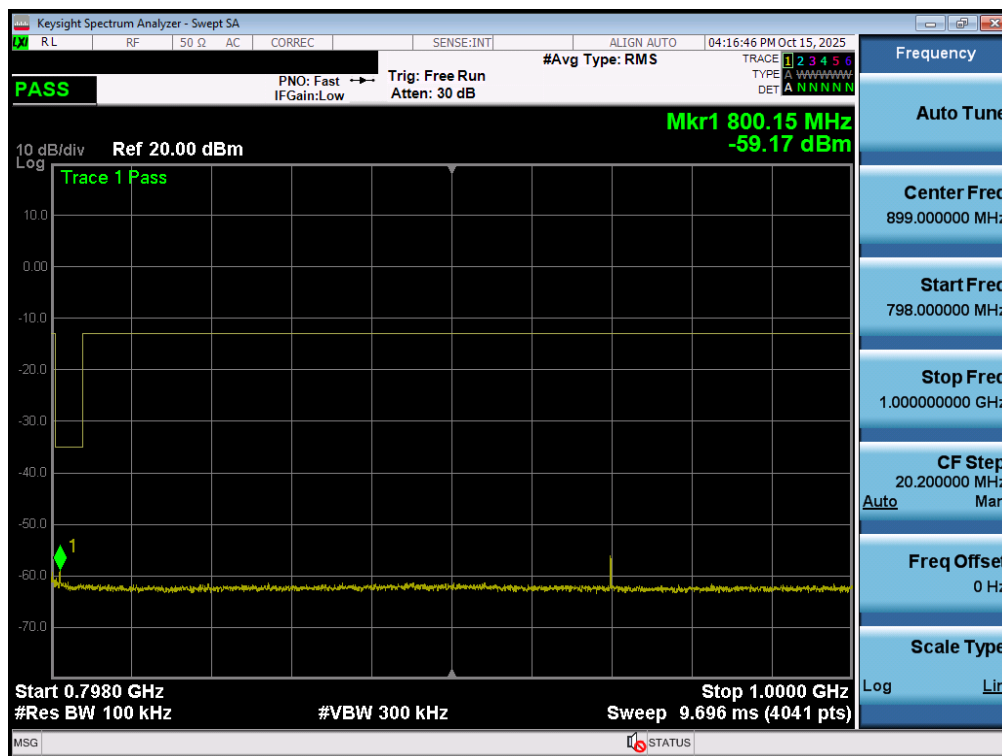
Plot 7-104. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 78 of 127

NR Band n14 - Ant 2

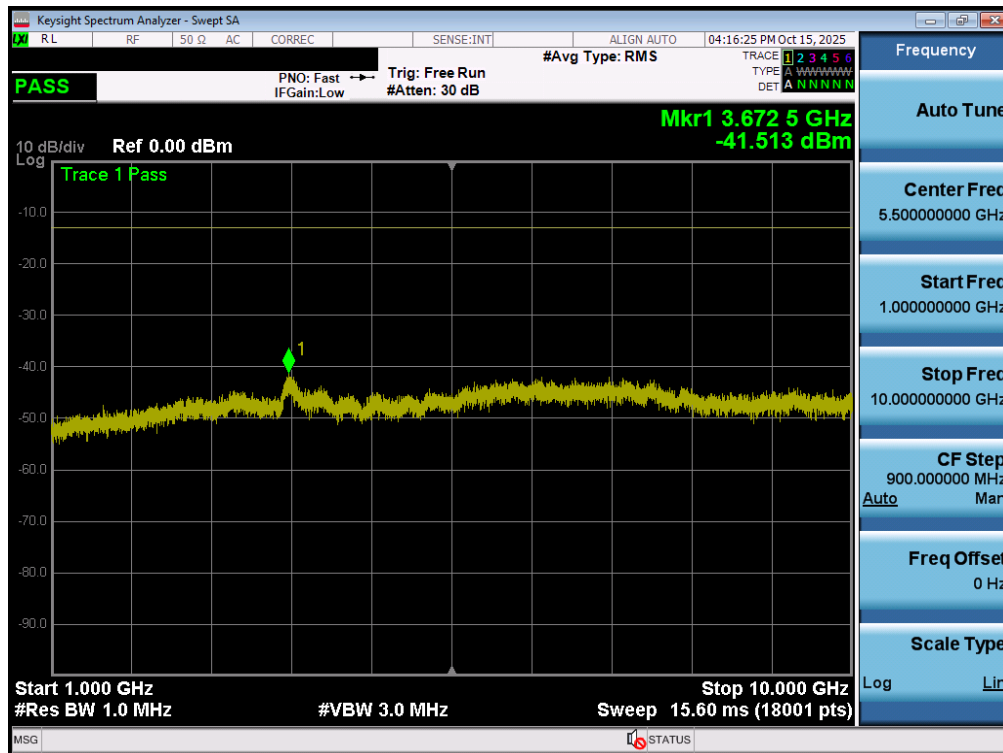


Plot 7-105. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-106. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 79 of 127

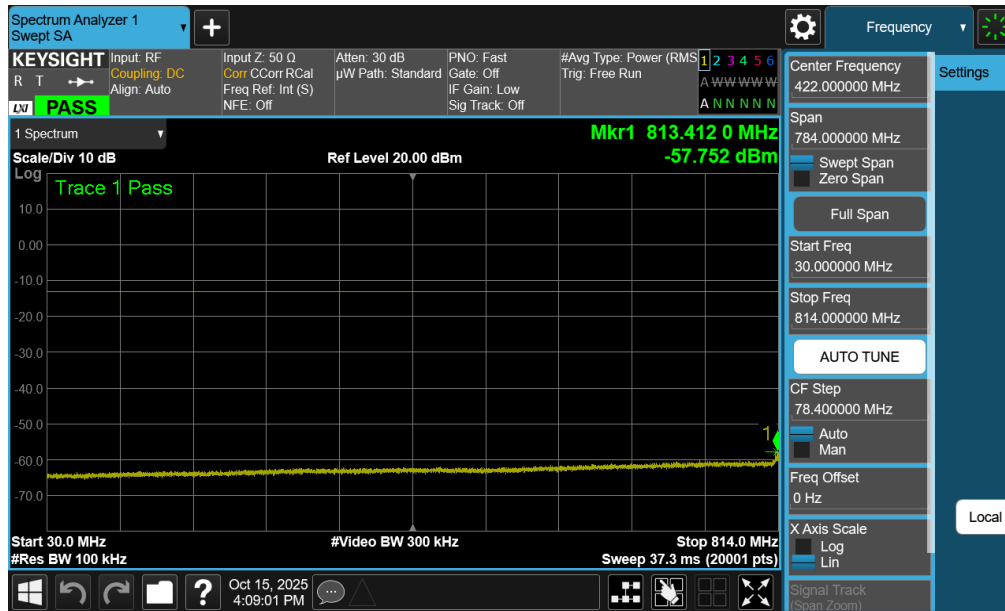


Plot 7-107. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)

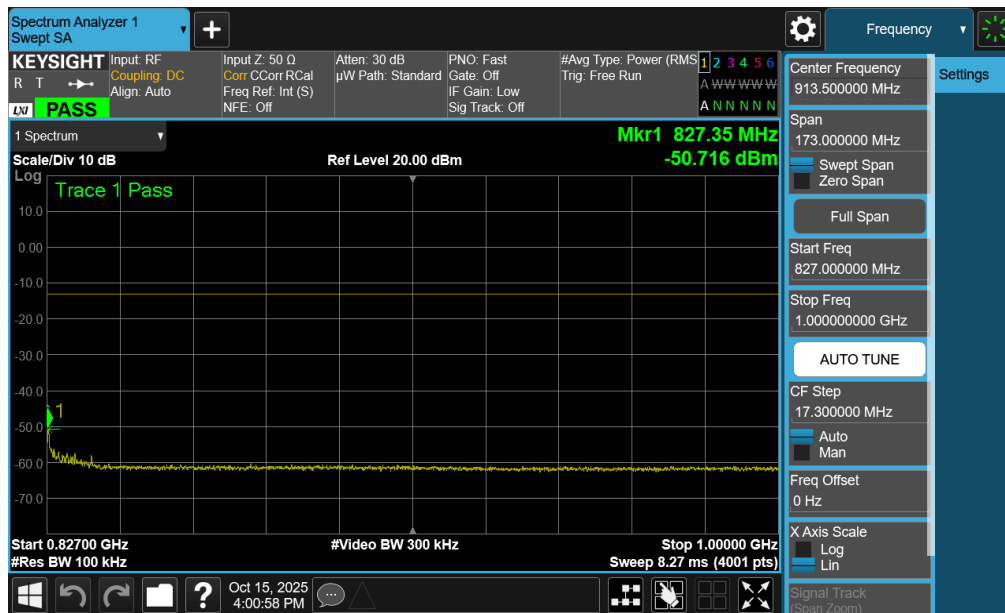
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 80 of 127



NR Band n26 - Ant 2

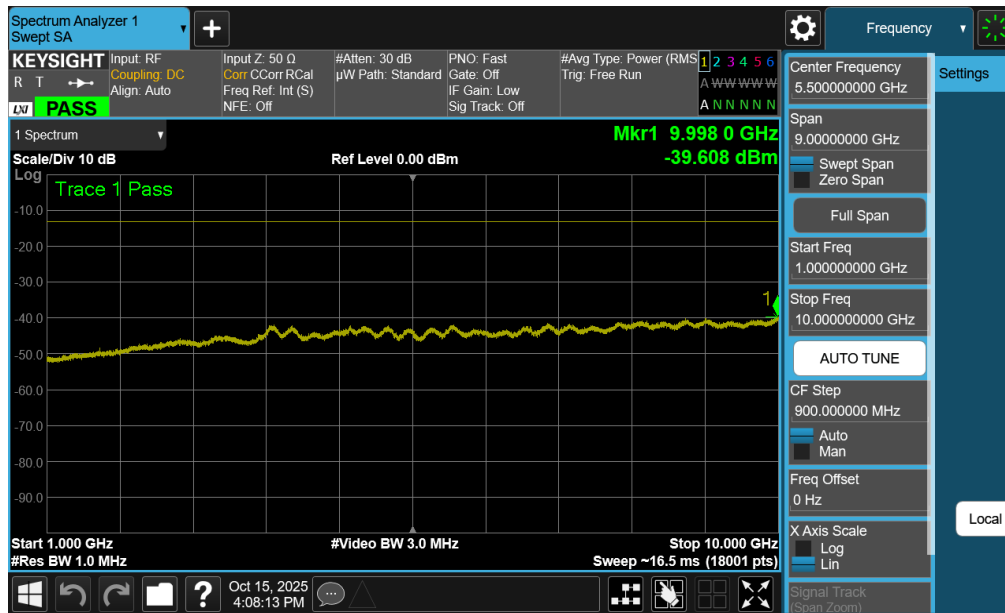


Plot 7-108. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-109. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 81 of 127



Plot 7-110. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 82 of 127

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.

For LTE B26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is $43 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is $50 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

For LTE Band 14 operation under Part 90.543, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10\log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.

Additionally, for LTE Band 14 operation, on all frequencies between 769-775 MHz and 799-805 MHz, the power of any emission shall be attenuated by a factor not less than $65 + 10\log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

Test Settings

1. Span was set large enough so as to capture all out of band emissions near the band edge
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = RMS
5. Trace mode = trace average
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

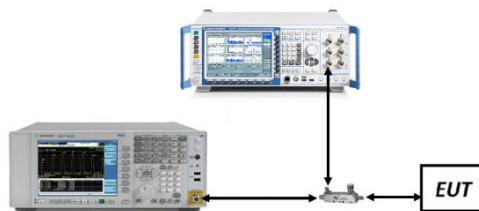


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 83 of 127

Test Notes

1. For channel edge emission, the signal analyzer's "ACP" measurement capability is used.
2. Per 22.917(b) 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.
3. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

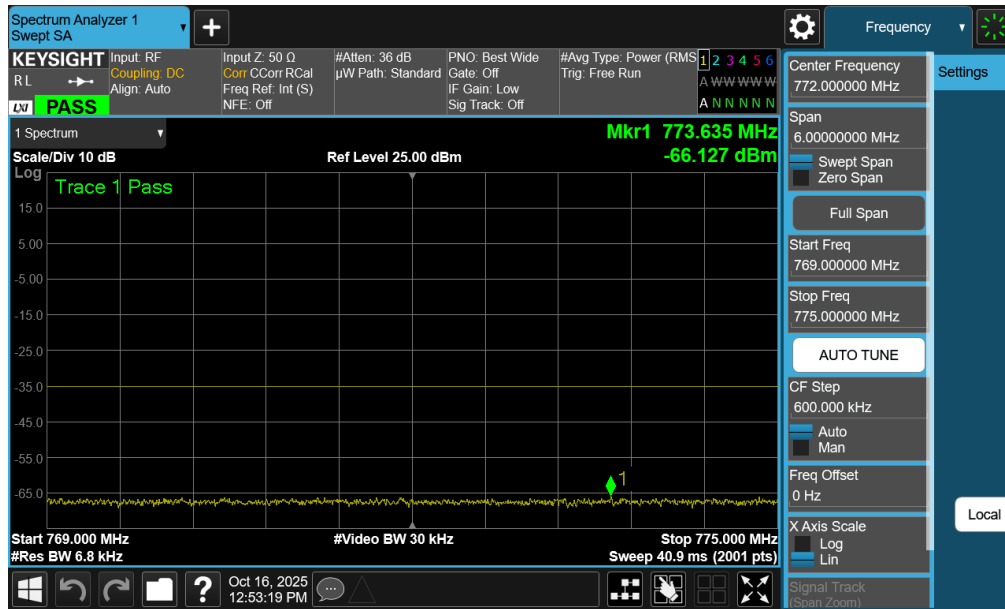
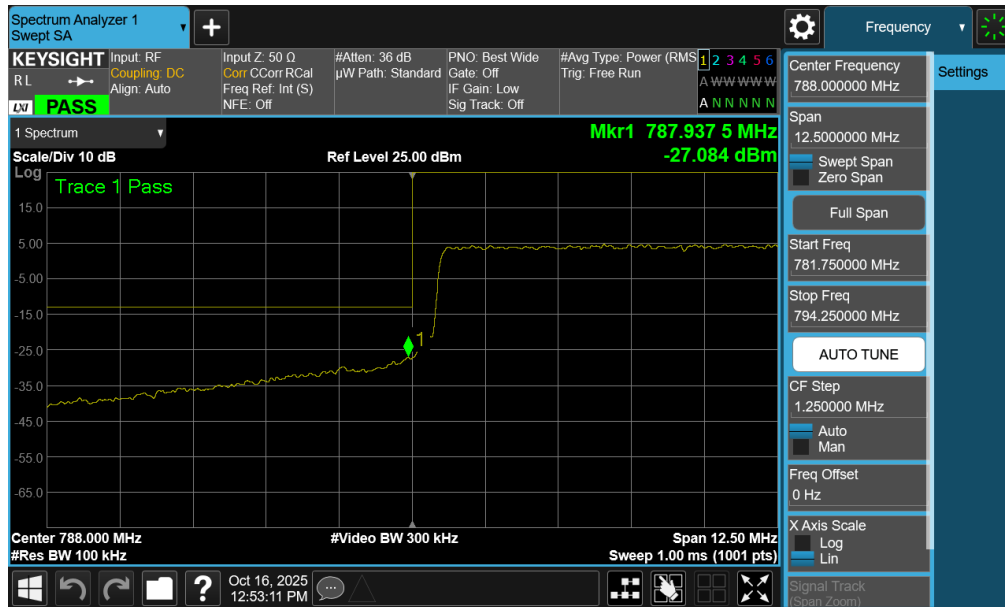
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 84 of 127

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B14	10 MHz	Low	Band Edge	-27.08	-13	-14.08
		Low EmMask	Band Edge	-66.13	-35	-31.13
		High	Band Edge	-26.46	-13	-13.46
		High EmMask	Band Edge	-41.35	-35	-6.35
	5 MHz	Low	Band Edge	-20.91	-13	-7.91
		Low EmMask	Band Edge	-66.69	-35	-31.69
		High	Band Edge	-19.63	-13	-6.63
		High EmMask	Band Edge	-40.25	-35	-5.25
LTE-B26	15 MHz	Mid	Band Edge	-25.72	-20	-5.72
	10 MHz	Mid	Band Edge	-23.66	-20	-3.66
	5 MHz	Low	Band Edge	-27.20	-20	-7.20
		High	Band Edge	-21.97	-20	-1.97
	3 MHz	Low	Band Edge	-24.01	-20	-4.01
		High	Band Edge	-24.71	-20	-4.71
	1.4 MHz	Low	Band Edge	-22.62	-20	-2.62
		High	Band Edge	-22.44	-20	-2.44
NR-n14	10 MHz	Low	Band Edge	-19.04	-13	-6.04
		Low EmMask	Band Edge	-67.36	-35	-32.36
		High	Band Edge	-25.65	-13	-12.65
		High EmMask	Band Edge	-44.63	-35	-9.63
	5 MHz	Low	Band Edge	-23.05	-13	-10.05
		Low EmMask	Band Edge	-67.31	-35	-32.31
		High	Band Edge	-21.63	-13	-8.63
		High EmMask	Band Edge	-52.03	-35	-17.03
NR-n26	20 MHz	Mid	Band Edge	-38.81	-20	-18.81
	15 MHz	Mid	Band Edge	-35.73	-20	-15.73
	10 MHz	Mid	Band Edge	-30.45	-20	-10.45
	5 MHz	Low	Band Edge	-27.13	-20	-7.13
		High	Band Edge	-27.19	-20	-7.19

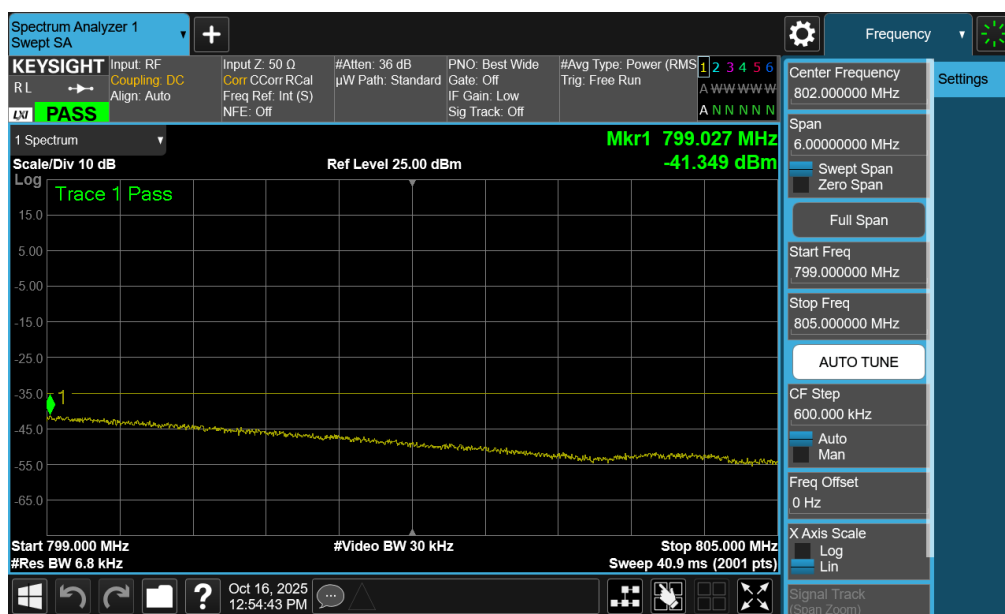
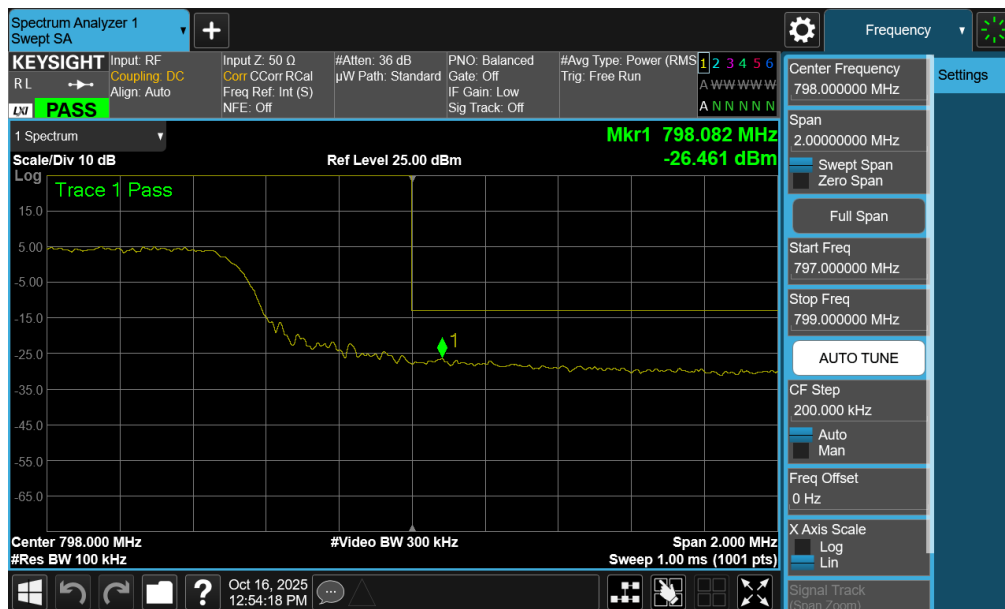
Table 7-10. Band Edge Test Results – Ant 1

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 85 of 127

LTE Band 14 - Ant 1

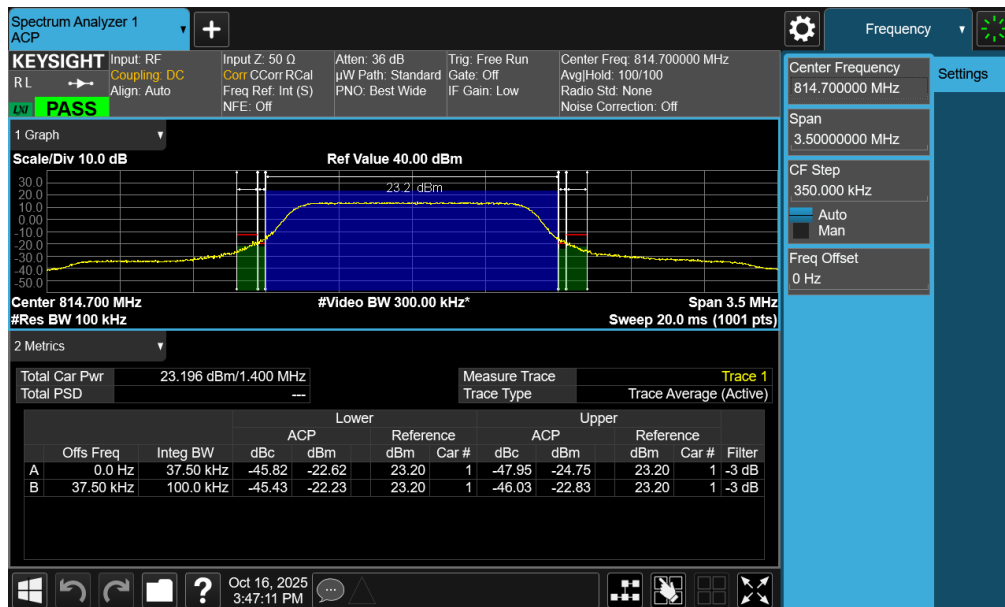


FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 86 of 127

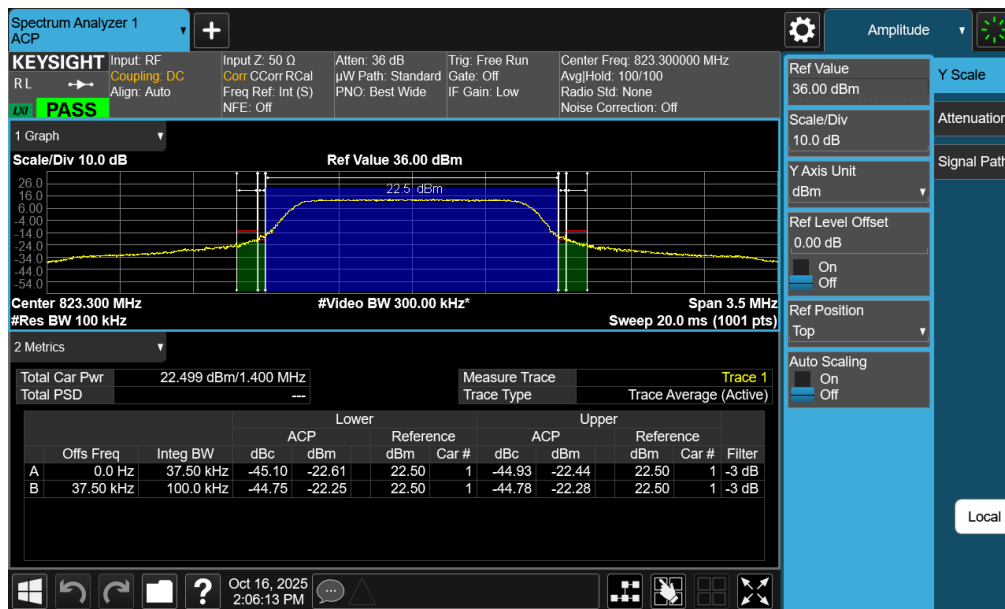


FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 87 of 127

LTE Band 26 – Ant 1



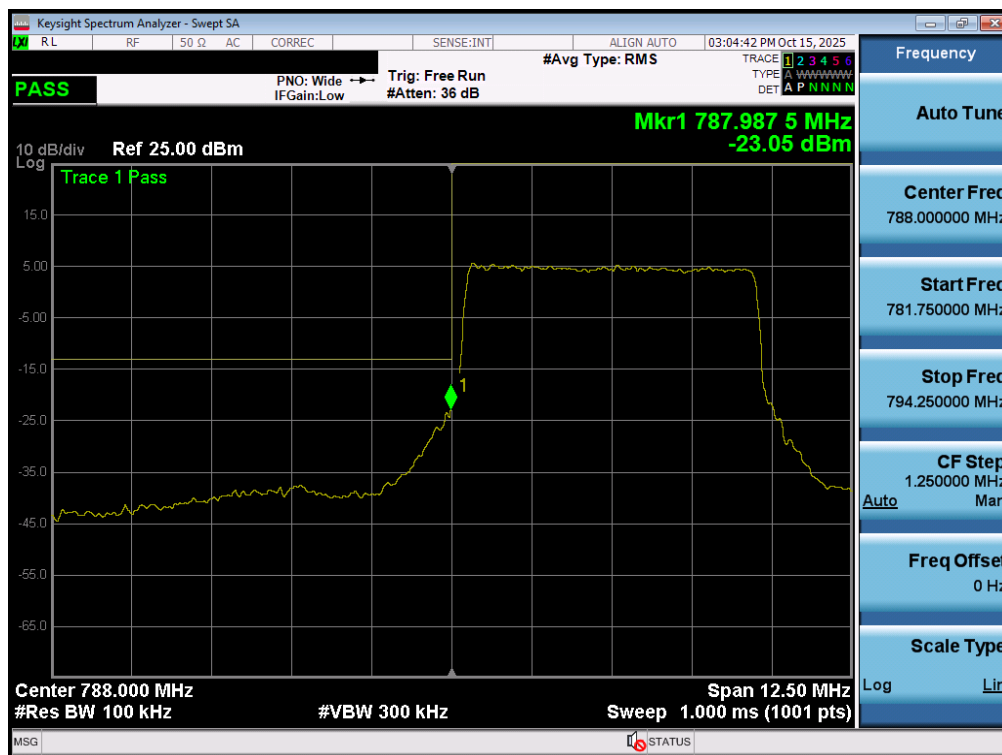
Plot 7-115. Channel - Edge Plot (LTE Band 26 - 1.4MHz QPSK - Low Channel)



Plot 7-116. Channel - Edge Plot (LTE Band 26 - 1.4MHz QPSK - High Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 88 of 127

NR Band n14 - Ant 1



Plot 7-117. Lower Band Edge Plot (NR Band n14 - 5MHz BPSK)



Plot 7-118. Lower Emission Mask Plot (NR Band n14 - 5MHz BPSK)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 89 of 127



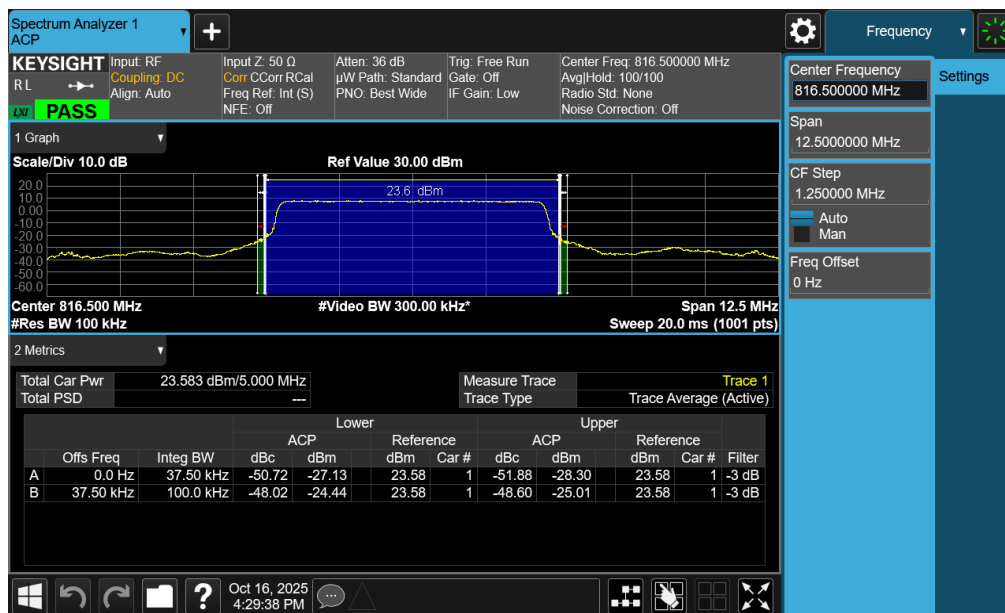
Plot 7-119. Upper Band Edge Plot (NR Band n14 - 5MHz BPSK)



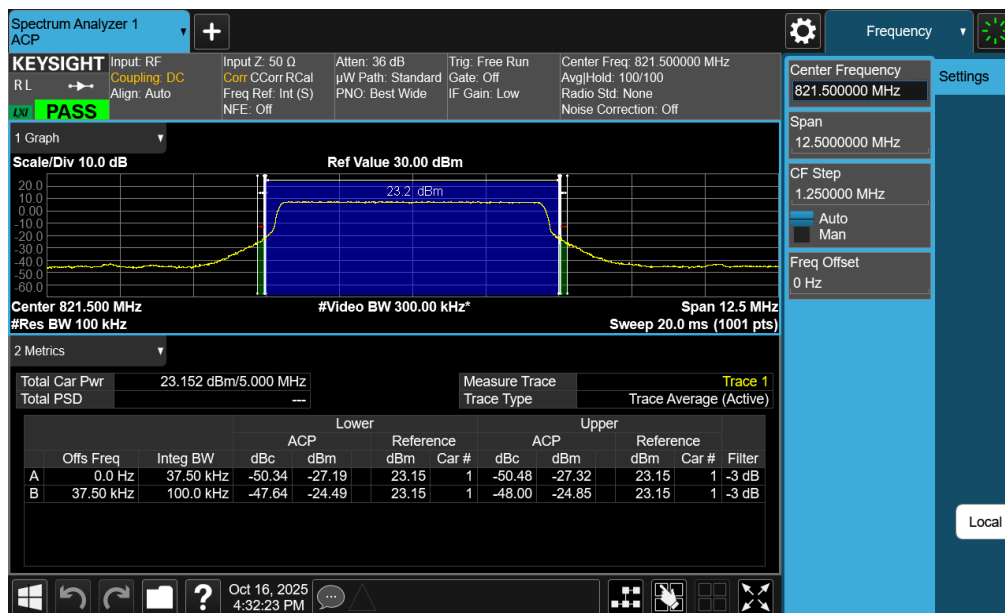
Plot 7-120. Upper Emission Mask Plot (NR Band n14 - 5MHz BPSK)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 90 of 127

NR Band n26 - Ant 1



Plot 7-121. Channel Edge Plot (NR Band n26 - 5MHz BPSK - Low Channel)



Plot 7-122. Channel Edge Plot (NR Band n26 - 5MHz BPSK - High Channel)

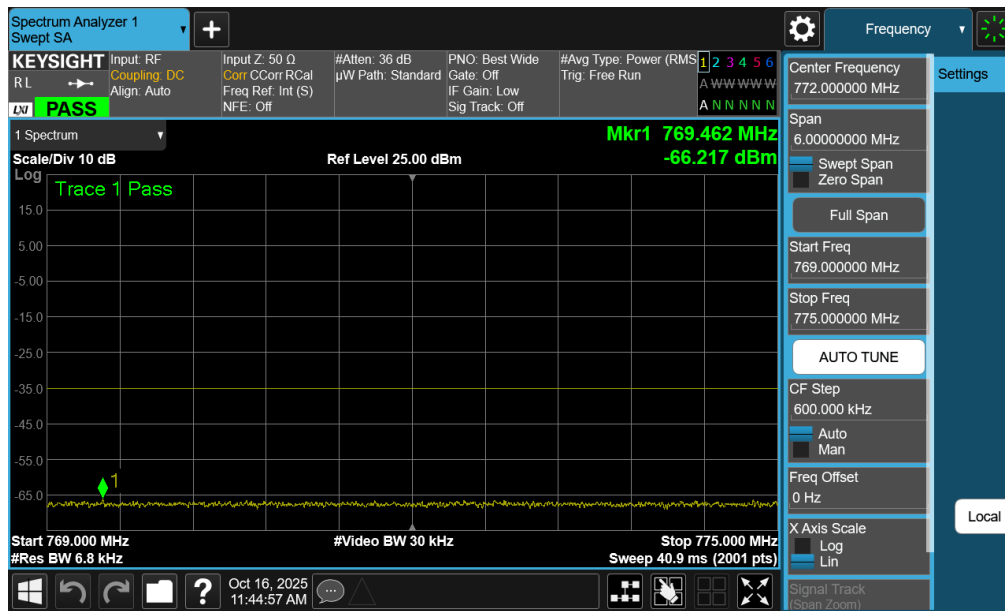
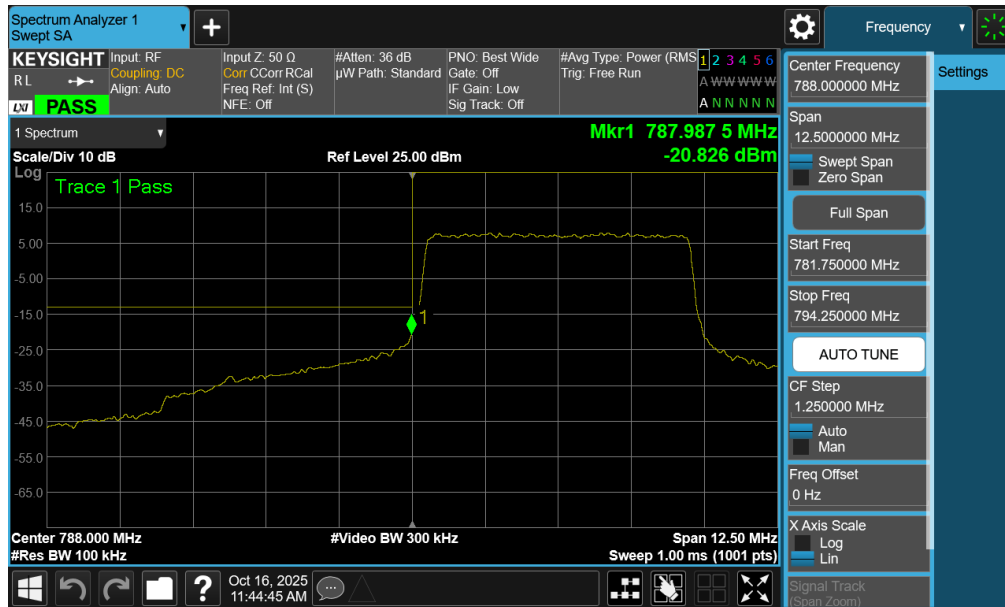
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 91 of 127

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B14	10 MHz	Low	Band Edge	-25.86	-13	-12.86
		Low EmMask	Band Edge	-66.71	-35	-31.71
		High	Band Edge	-25.70	-13	-12.70
		High EmMask	Band Edge	-40.17	-35	-5.17
	5 MHz	Low	Band Edge	-20.83	-13	-7.83
		Low EmMask	Band Edge	-66.22	-35	-31.22
		High	Band Edge	-20.94	-13	-7.94
		High EmMask	Band Edge	-39.99	-35	-4.99
LTE-B26	15 MHz	Mid	Band Edge	0.00	-20	20.00
	10 MHz	Mid	Band Edge	0.00	-20	20.00
	5 MHz	Low	Band Edge	0.00	-20	20.00
		High	Band Edge	0.00	-20	20.00
	3 MHz	Low	Band Edge	0.00	-20	20.00
		High	Band Edge	0.00	-20	20.00
	1.4 MHz	Low	Band Edge	0.00	-20	20.00
		High	Band Edge	0.00	-20	20.00
NR-n14	10 MHz	Low	Band Edge	-28.67	-13	-15.67
		Low EmMask	Band Edge	-67.71	-35	-32.71
		High	Band Edge	-27.12	-13	-14.12
		High EmMask	Band Edge	-46.04	-35	-11.04
	5 MHz	Low	Band Edge	-22.38	-13	-9.38
		Low EmMask	Band Edge	-67.45	-35	-32.45
		High	Band Edge	-21.10	-13	-8.10
		High EmMask	Band Edge	-51.82	-35	-16.82
NR-n26	20 MHz	Mid	Band Edge	-28.56	-20	-8.56
	15 MHz	Mid	Band Edge	-23.91	-20	-3.91
	10 MHz	Mid	Band Edge	-26.48	-20	-6.48
	5 MHz	Low	Band Edge	-26.18	-20	-6.18
		High	Band Edge	-22.11	-20	-2.11

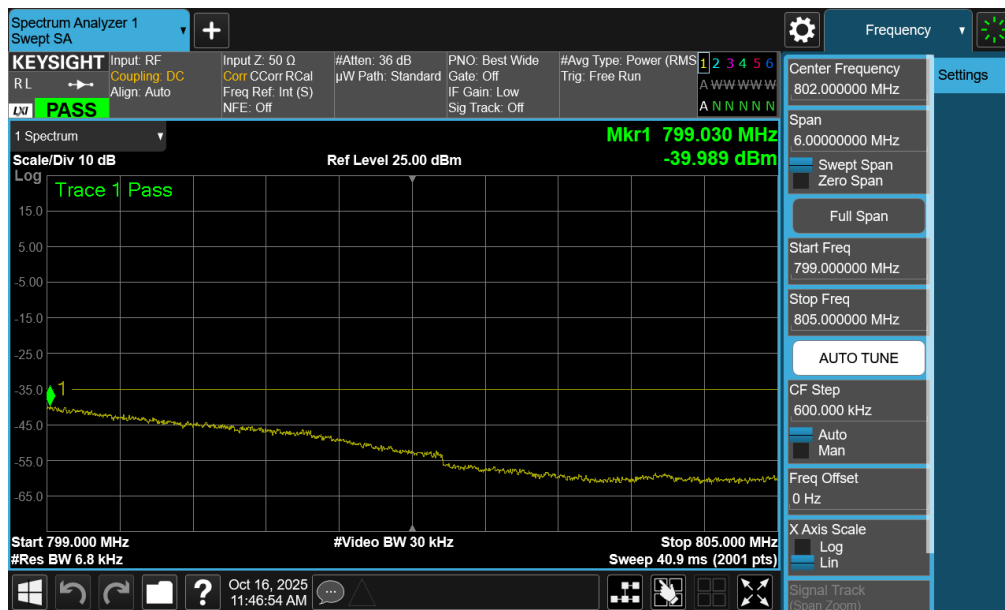
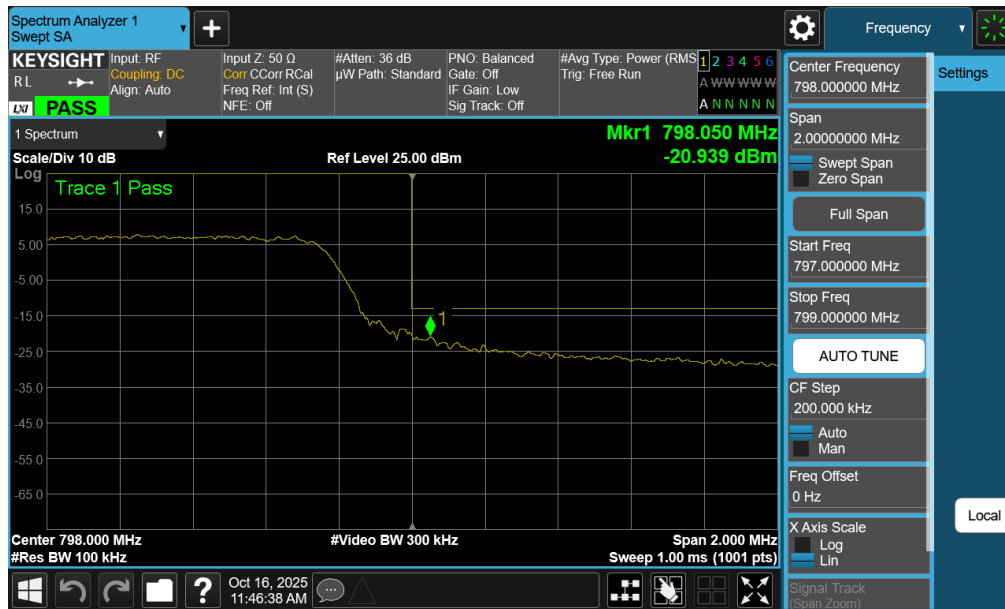
Table 7-11. Band Edge Test Results – Ant 1

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 92 of 127

LTE Band 14 - Ant 2

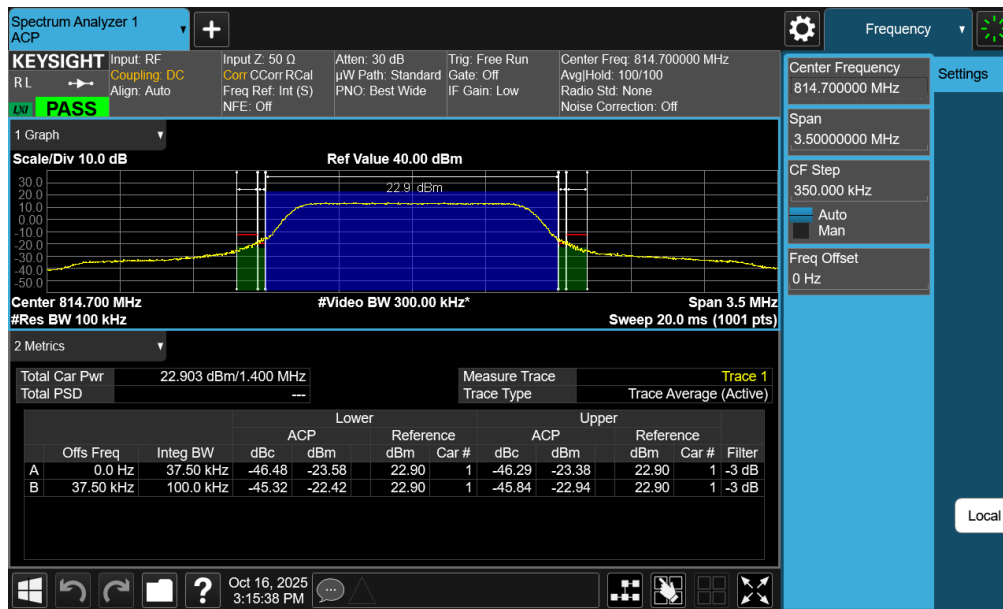


FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 93 of 127

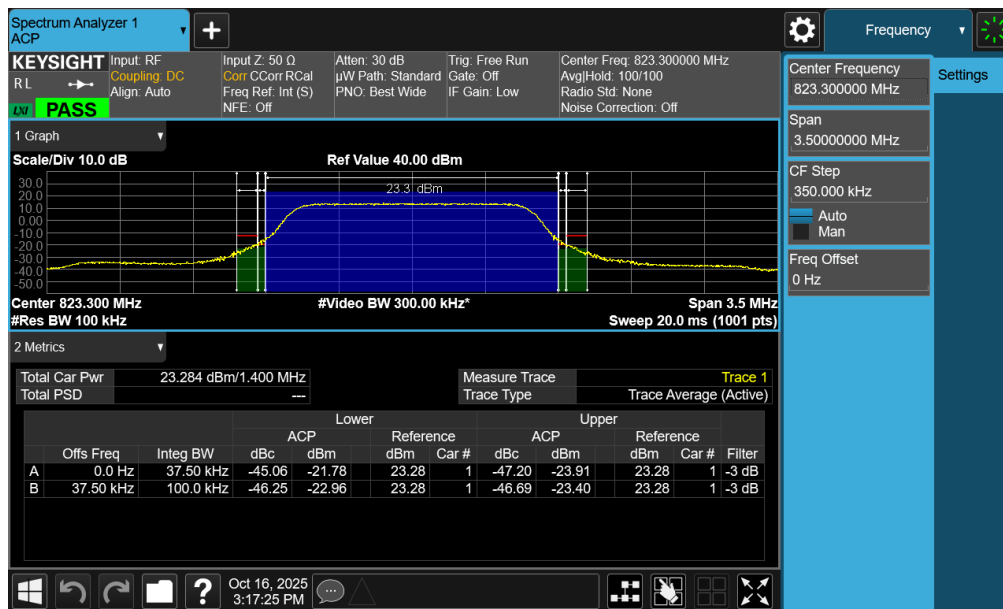


FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 94 of 127

LTE Band 26 – Ant 2



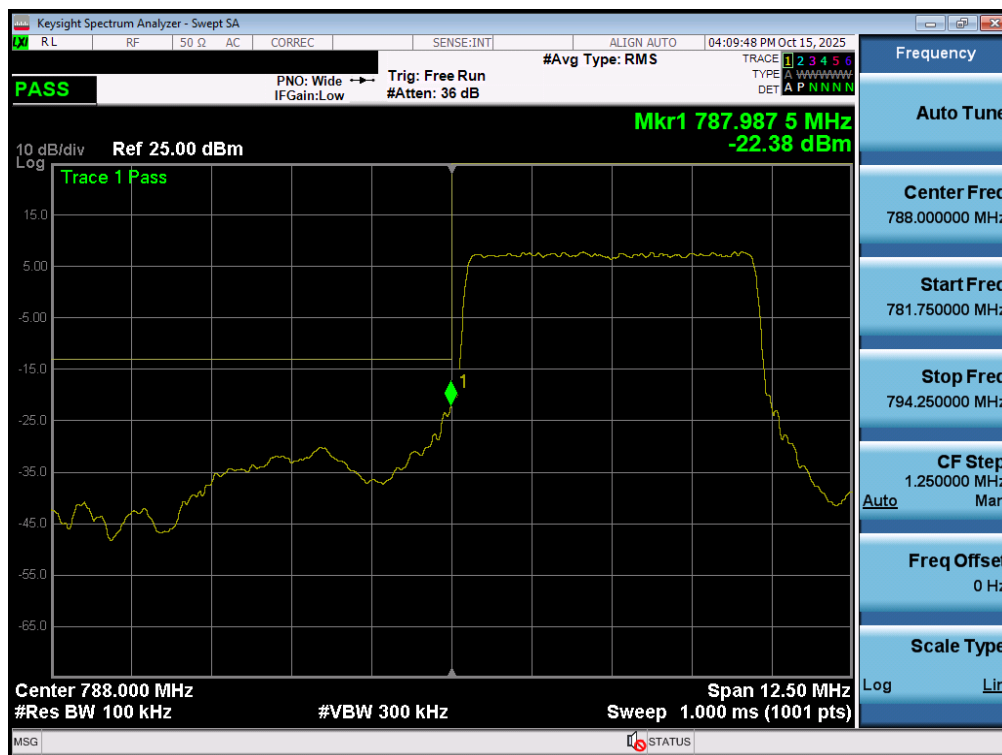
Plot 7-127. Channel - Edge Plot (LTE Band 26 - 1.4MHz QPSK - Low Channel)



Plot 7-128. Channel - Edge Plot (LTE Band 26 - 1.4MHz QPSK - High Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 95 of 127

NR Band n14 - Ant 2



Plot 7-129. Lower Band Edge Plot (NR Band n14 - 5MHz BPSK)



Plot 7-130. Lower Emission Mask Plot (NR Band n14 - 5MHz BPSK)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 96 of 127



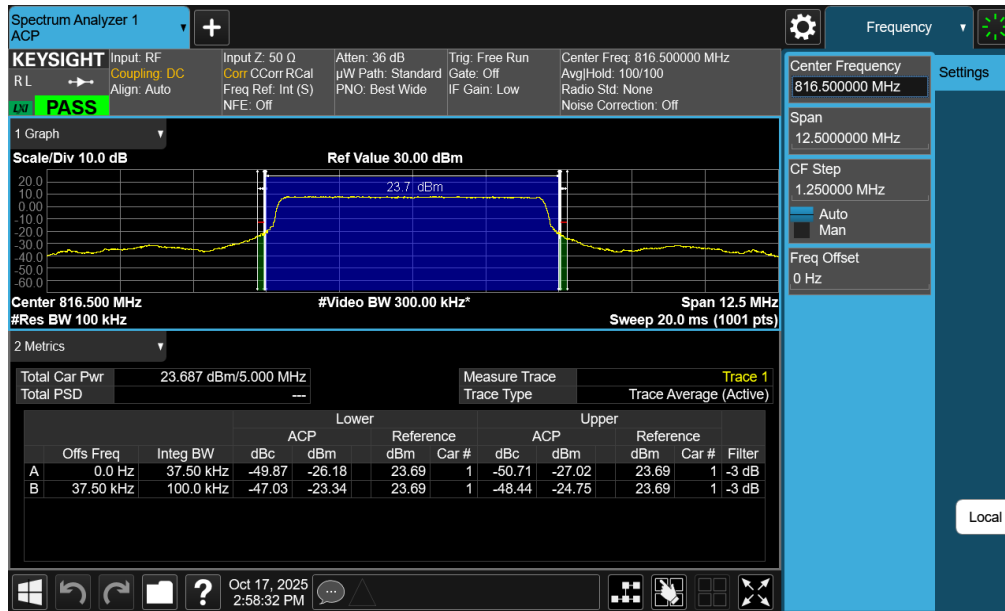
Plot 7-131. Upper Band Edge Plot (NR Band n14 - 5MHz BPSK)



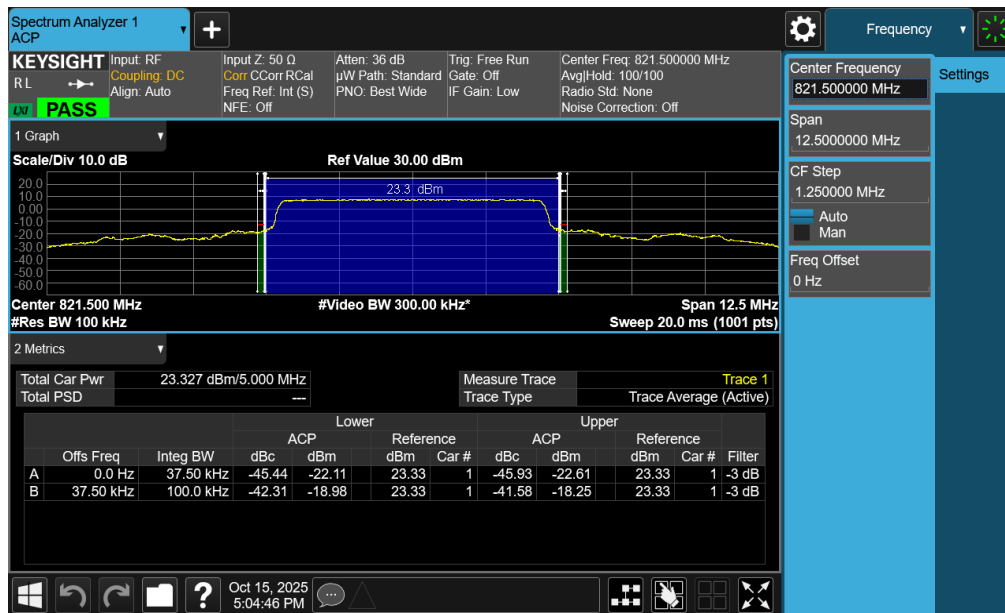
Plot 7-132. Upper Emission Mask Plot (NR Band n14 - 5MHz BPSK)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 97 of 127

NR Band n26 - Ant 2



Plot 7-133. Channel Edge Plot (NR Band n26 - 5MHz BPSK - Low Channel)



Plot 7-134. Channel Edge Plot (NR Band n26 - 5MHz BPSK - High Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 98 of 127

7.6 Radiated Power (ERP)

Test Overview

Effective Radiated Power (ERP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 99 of 127

Test Setup

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

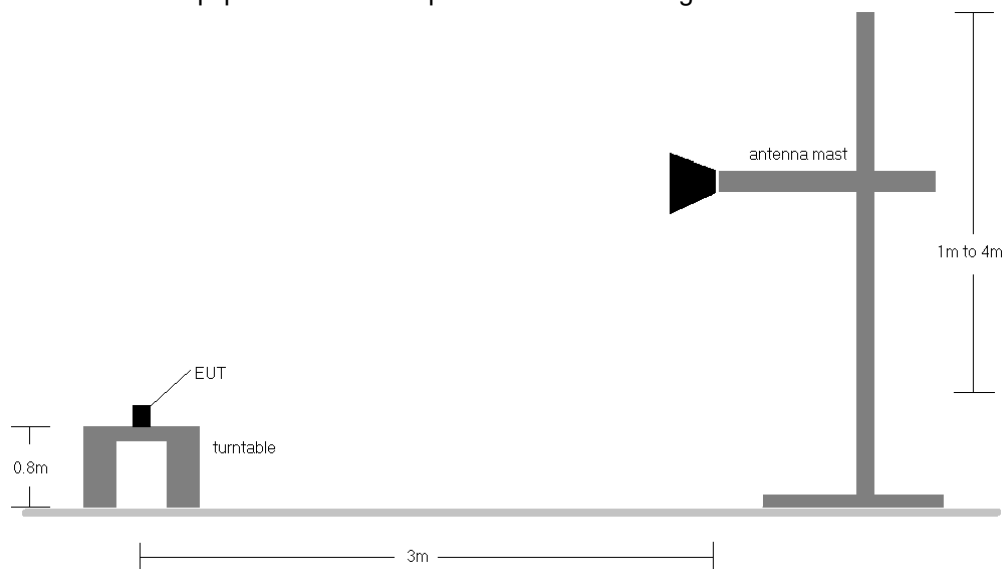


Figure 7-5. Radiated Test Setup <1GHz

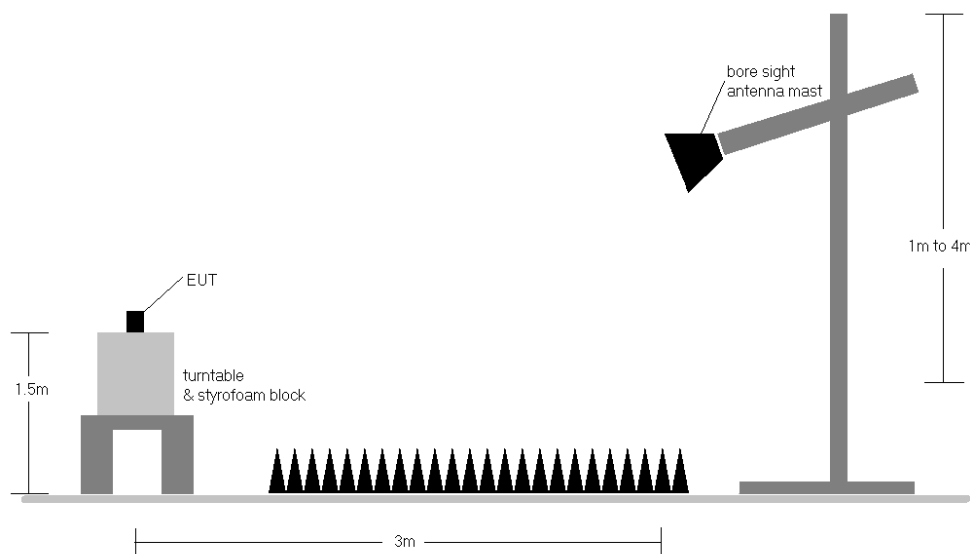


Figure 7-6. Radiated Test Setup > 1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 100 of 127

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	793.00	H	235	240	1.15	1 / 25	22.12	21.12	0.129	34.77	-13.66	23.27	0.212	36.92	-13.66
	16-QAM	793.00	H	235	240	1.15	1 / 25	21.31	20.31	0.107	34.77	-14.47	22.46	0.176	36.92	-14.47
	64-QAM	793.00	H	235	240	1.15	1 / 25	20.28	19.28	0.085	34.77	-15.50	21.43	0.139	36.92	-15.50
	256-QAM	793.00	H	235	240	1.15	1 / 25	17.23	16.23	0.042	34.77	-18.55	18.38	0.069	36.92	-18.55
5 MHz	QPSK	790.50	H	235	240	1.15	1 / 0	22.08	21.08	0.128	34.77	-13.69	23.23	0.210	36.92	-13.69
	QPSK	793.00	H	235	240	1.15	1 / 24	21.93	20.93	0.124	34.77	-13.84	23.08	0.203	36.92	-13.84
	QPSK	795.50	H	235	240	1.14	1 / 24	21.84	20.83	0.121	34.77	-13.95	22.98	0.198	36.92	-13.95
	16-QAM	790.50	H	235	240	1.15	1 / 0	21.51	20.51	0.112	34.77	-14.26	22.66	0.184	36.92	-14.26
	16-QAM	793.00	H	235	240	1.15	1 / 24	21.35	20.34	0.108	34.77	-14.43	22.49	0.177	36.92	-14.43
	16-QAM	795.50	H	235	240	1.14	1 / 24	21.14	20.13	0.103	34.77	-14.64	22.28	0.169	36.92	-14.64
10 MHz	QPSK	795.50	V	142	228	1.15	1 / 25	18.25	17.25	0.053	34.77	-17.53	19.40	0.087	36.92	-17.53
	QPSK (WCP)	790.50	H	233	239	1.15	1 / 0	21.16	20.16	0.104	34.77	-14.62	22.31	0.170	36.92	-14.62

Table 7-12. ERP Data (LTE Band 14 – Ant 1)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15 MHz	QPSK	821.50	H	223	235	1.24	1 / 37	21.05	20.14	0.103	38.45	-18.31	22.29	0.169	40.61	-18.32
	16-QAM	821.50	H	223	235	1.24	1 / 37	20.29	19.38	0.087	38.45	-19.07	21.53	0.142	40.61	-19.08
15 MHz	QPSK	816.50	V	128	228	1.24	1 / 74	18.08	17.17	0.052	38.45	-21.28	19.32	0.085	40.61	-21.29
	QPSK (WCP)	821.50	H	225	233	1.24	1 / 37	21.05	20.14	0.103	38.45	-18.31	22.29	0.169	40.61	-18.32

Table 7-13. ERP Data (LTE Band 26 – Ant 1)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	$\pi/2$ BPSK	793.00	H	232	240	1.15	1 / 50	21.91	20.91	0.123	34.77	-13.87	23.06	0.202	36.92	-13.87
	QPSK	793.00	H	232	240	1.15	1 / 50	21.88	20.88	0.122	34.77	-13.90	23.03	0.201	36.92	-13.90
	16-QAM	793.00	H	232	240	1.15	1 / 50	20.89	19.89	0.097	34.77	-14.89	22.04	0.160	36.92	-14.89
5 MHz	$\pi/2$ BPSK	790.50	H	232	240	1.15	1 / 12	22.00	21.01	0.126	34.77	-13.77	23.16	0.207	36.92	-13.77
	$\pi/2$ BPSK	793.00	H	232	240	1.15	1 / 12	21.86	20.85	0.122	34.77	-13.92	23.00	0.200	36.92	-13.92
	$\pi/2$ BPSK	795.50	H	232	240	1.14	1 / 12	22.07	21.06	0.128	34.77	-13.71	23.21	0.209	36.92	-13.71
	QPSK	790.50	H	232	240	1.15	1 / 23	22.13	21.13	0.130	34.77	-13.64	23.28	0.213	36.92	-13.64
	QPSK	793.00	H	232	240	1.15	1 / 12	22.09	21.08	0.128	34.77	-13.69	23.23	0.210	36.92	-13.69
	QPSK	795.50	H	232	240	1.14	1 / 23	21.97	20.96	0.125	34.77	-13.81	23.11	0.205	36.92	-13.81
	16-QAM	790.50	H	232	240	1.15	1 / 12	21.20	20.20	0.105	34.77	-14.57	22.35	0.172	36.92	-14.57
	16-QAM	793.00	H	232	240	1.15	1 / 12	20.97	19.97	0.099	34.77	-14.80	22.12	0.163	36.92	-14.80
	16-QAM	795.50	H	232	240	1.14	1 / 12	21.22	20.21	0.105	34.77	-14.56	22.36	0.172	36.92	-14.56
10 MHz	QPSK (CP-OFDM)	795.50	H	229	234	1.15	1 / 26	20.74	19.74	0.094	34.77	-15.04	21.89	0.154	36.92	-15.04
	QPSK (Opp. Pol.)	795.50	V	143	243	1.15	1 / 26	17.75	16.75	0.047	34.77	-18.03	18.90	0.078	36.92	-18.03
	QPSK (WCP)	790.50	H	233	229	1.15	1 / 26	19.69	18.69	0.074	34.77	-16.09	20.84	0.121	36.92	-16.09

Table 7-14. ERP Data (NR Band n14 – Ant 1)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	824.00	H	221	238	1.25	1 / 1	21.57	20.67	0.117	38.45	-17.78	22.82	0.191	40.61	-17.79
	QPSK	824.00	H	221	238	1.25	1 / 1	21.58	20.68	0.117	38.45	-17.77	22.83	0.192	40.61	-17.78
	16-QAM	824.00	H	221	238	1.25	1 / 1	18.92	18.02	0.063	38.45	-20.43	20.17	0.104	40.61	-20.44
15 MHz	$\pi/2$ BPSK	821.50	H	221	238	1.24	1 / 77	21.49	20.58	0.114	38.45	-17.87	22.73	0.188	40.61	-17.88
	QPSK	821.50	H	221	238	1.24	1 / 77	21.63	20.71	0.118	38.45	-17.74	22.86	0.193	40.61	-17.74
	16-QAM	821.50	H	221	238	1.24	1 / 77	18.77	17.86	0.061	38.45	-20.59	20.01	0.100	40.61	-20.60
20 MHz	QPSK (CP-OFDM)	824.00	H	230	234	1.27	1 / 1	18.49	17.61	0.058	38.45	-20.84	19.76	0.095	40.61	-20.84
	QPSK (Opp. Pol.)	824.00	V	128	238	1.27	1 / 104	19.49	18.61	0.073	38.45	-19.84	20.76	0.119	40.61	-19.84
	QPSK (WCP)	824.00	H	229	237	1.27	1 / 1	21.05	20.17	0.104	38.45	-18.28	22.32	0.171	40.61	-18.28

Table 7-15. ERP Data (NR Band n26 – Ant 1)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	793.00	H	256	79	1.15	1 / 0	19.34	18.34	0.068	34.77	-16.44	20.49	0.112	36.92	-16.44
	16-QAM	793.00	H	256	79	1.15	1 / 0	18.66	17.66	0.058	34.77	-17.12	19.81	0.096	36.92	-17.12
5 MHz	QPSK	790.50	H	256	79	1.15	1 / 0	19.55	18.55	0.072	34.77	-16.22	20.70	0.117	36.92	-16.22
	QPSK	793.00	H	256	79	1.15	1 / 0	19.39	18.39	0.069	34.77	-16.38	20.54	0.113	36.92	-16.38
	QPSK	795.50	H	256	79	1.14	1 / 0	19.34	18.33	0.068	34.77	-16.44	20.48	0.112	36.92	-16.44
	16-QAM	790.50	H	256	79	1.15	1 / 0	18.66	17.66	0.058	34.77	-17.11	19.81	0.096	36.92	-17.11
	16-QAM	793.00	H	256	79	1.15	1 / 0	18.56	17.56	0.057	34.77	-17.22	19.71	0.093	36.92	-17.22
	16-QAM	795.50	H	256	79	1.14	1 / 0	18.66	17.65	0.058	34.77	-17.12	19.80	0.095	36.92	-17.12
10 MHz	QPSK	795.50	V	140	105	1.15	1 / 0	16.41	15.41	0.035	34.77	-19.37	17.56	0.057	36.92	-19.37
	QPSK (WCP)	790.50	H	255	76	1.15	1 / 0	18.24	17.24	0.053	34.77	-17.54	19.39	0.087	36.92	-17.54

Table 7-16. ERP Data (LTE Band 14 – Ant 2)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 101 of 127	

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15 MHz	QPSK	821.50	H	222	71	1.24	1 / 0	19.14	18.23	0.066	38.45	-20.22	20.38	0.109	40.61	-20.23
	16-QAM	821.50	H	222	71	1.24	1 / 0	18.57	17.66	0.058	38.45	-20.79	19.81	0.096	40.61	-20.80
15 MHz	QPSK	816.50	V	126	115	1.24	1 / 74	15.59	14.68	0.029	38.45	-23.77	16.83	0.048	40.61	-23.78
	QPSK (WCP)	821.50	H	225	74	1.24	1 / 0	18.55	17.64	0.058	38.45	-20.81	19.79	0.095	40.61	-20.82

Table 7-17. ERP Data (LTE Band 26 – Ant 2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	$\pi/2$ BPSK	793.00	H	226	72	1.15	1 / 26	18.35	17.35	0.054	34.77	-17.43	19.50	0.089	36.92	-17.43
	QPSK	793.00	H	226	72	1.15	1 / 26	18.30	17.30	0.054	34.77	-17.48	19.45	0.088	36.92	-17.48
	16-QAM	793.00	H	226	72	1.15	1 / 26	17.39	16.39	0.044	34.77	-18.39	18.54	0.071	36.92	-18.39
5 MHz	$\pi/2$ BPSK	790.50	H	226	72	1.15	1 / 12	18.37	17.37	0.055	34.77	-17.40	19.52	0.089	36.92	-17.40
	$\pi/2$ BPSK	793.00	H	226	72	1.15	1 / 23	18.54	17.54	0.057	34.77	-17.24	19.69	0.093	36.92	-17.24
	$\pi/2$ BPSK	795.50	H	226	72	1.14	1 / 12	18.61	17.60	0.058	34.77	-17.17	19.75	0.095	36.92	-17.17
	QPSK	790.50	H	226	72	1.15	1 / 23	18.30	17.30	0.054	34.77	-17.47	19.45	0.088	36.92	-17.47
	QPSK	793.00	H	226	72	1.15	1 / 12	18.41	17.41	0.055	34.77	-17.36	19.56	0.090	36.92	-17.36
	QPSK	795.50	H	226	72	1.14	1 / 23	18.39	17.38	0.055	34.77	-17.39	19.53	0.090	36.92	-17.39
	16-QAM	790.50	H	226	72	1.15	1 / 12	17.82	16.82	0.048	34.77	-17.95	18.97	0.079	36.92	-17.95
	16-QAM	793.00	H	226	72	1.15	1 / 12	17.63	16.62	0.046	34.77	-18.15	18.77	0.075	36.92	-18.15
	16-QAM	795.50	H	226	72	1.14	1 / 12	17.42	16.41	0.044	34.77	-18.36	18.56	0.072	36.92	-18.36
10 MHz	QPSK (CP-OFDM)	795.50	H	225	68	1.15	1 / 26	17.70	16.70	0.047	34.77	-18.08	18.85	0.077	36.92	-18.08
	QPSK (Opp. Pol.)	795.50	V	142	103	1.15	1 / 26	16.01	15.01	0.032	34.77	-19.77	17.16	0.052	36.92	-19.77
	QPSK (WCP)	790.50	H	226	72	1.15	1 / 26	17.12	16.12	0.041	34.77	-18.66	18.27	0.067	36.92	-18.66

Table 7-18. ERP Data (NR Band n14 – Ant 2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	824.00	H	221	74	1.25	1 / 1	19.22	18.32	0.068	38.45	-20.13	20.47	0.111	40.61	-20.14
	QPSK	824.00	H	221	74	1.25	1 / 1	19.19	18.29	0.067	38.45	-20.16	20.44	0.111	40.61	-20.17
	16-QAM	824.00	H	221	74	1.25	1 / 1	18.36	17.46	0.056	38.45	-20.99	19.61	0.091	40.61	-21.00
15 MHz	$\pi/2$ BPSK	821.50	H	221	74	1.24	1 / 104	19.35	18.44	0.070	38.45	-20.01	20.59	0.115	40.61	-20.02
	QPSK	821.50	H	221	74	1.24	1 / 104	19.28	18.37	0.069	38.45	-20.08	20.52	0.113	40.61	-20.09
	16-QAM	821.50	H	221	74	1.24	1 / 104	18.44	17.53	0.057	38.45	-20.93	19.68	0.093	40.61	-20.93
20 MHz	QPSK (CP-OFDM)	824.00	H	225	74	1.27	1 / 1	17.72	16.84	0.048	38.45	-21.61	18.99	0.079	40.61	-21.61
	QPSK (Opp. Pol.)	824.00	V	144	102	1.27	1 / 53	16.68	15.80	0.038	38.45	-22.65	17.95	0.062	40.61	-22.65
	QPSK (WCP)	824.00	H	231	73	1.27	1 / 1	18.16	17.28	0.054	38.45	-21.17	19.43	0.088	40.61	-21.17

Table 7-19. ERP Data (NR Band n26 – Ant 2)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 102 of 127

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 103 of 127

Test Setup

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

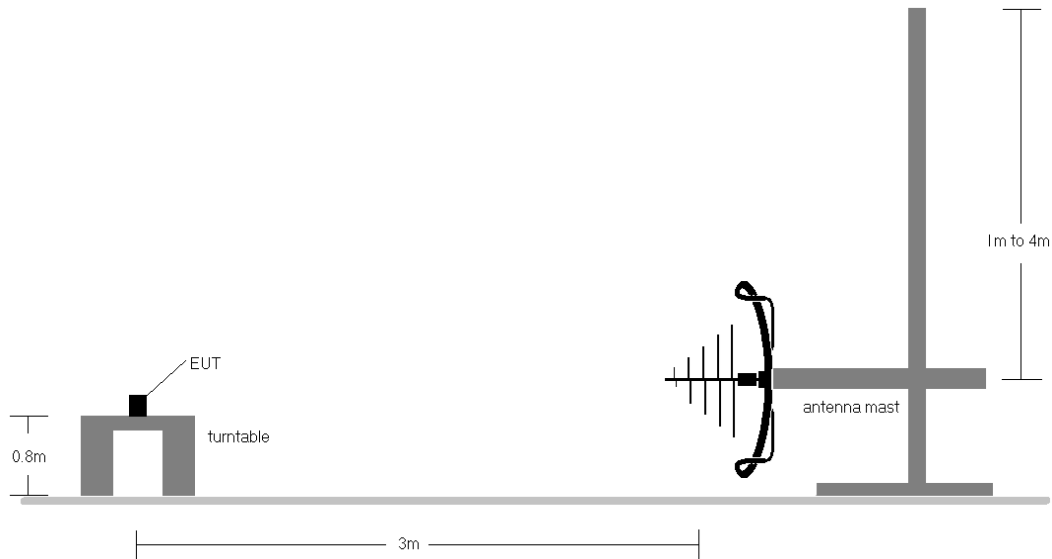


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

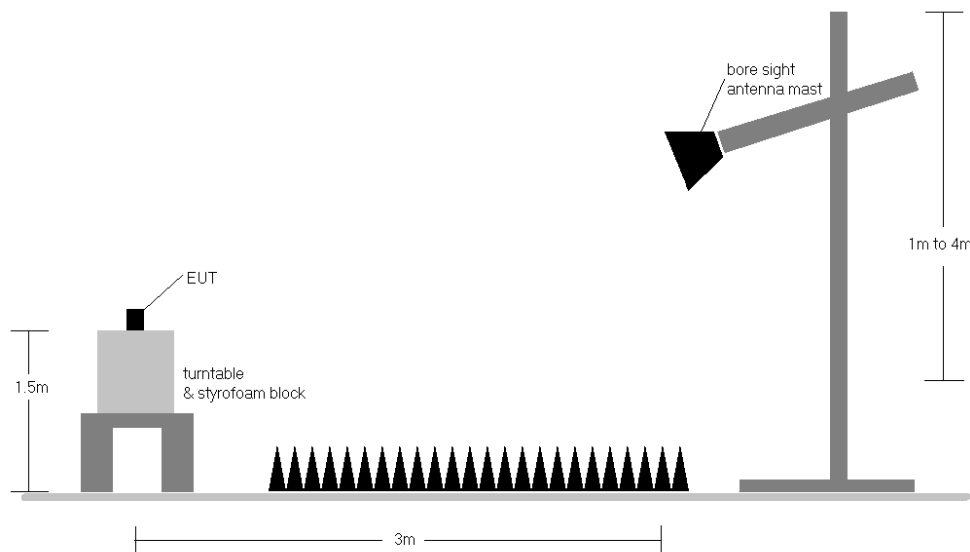


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

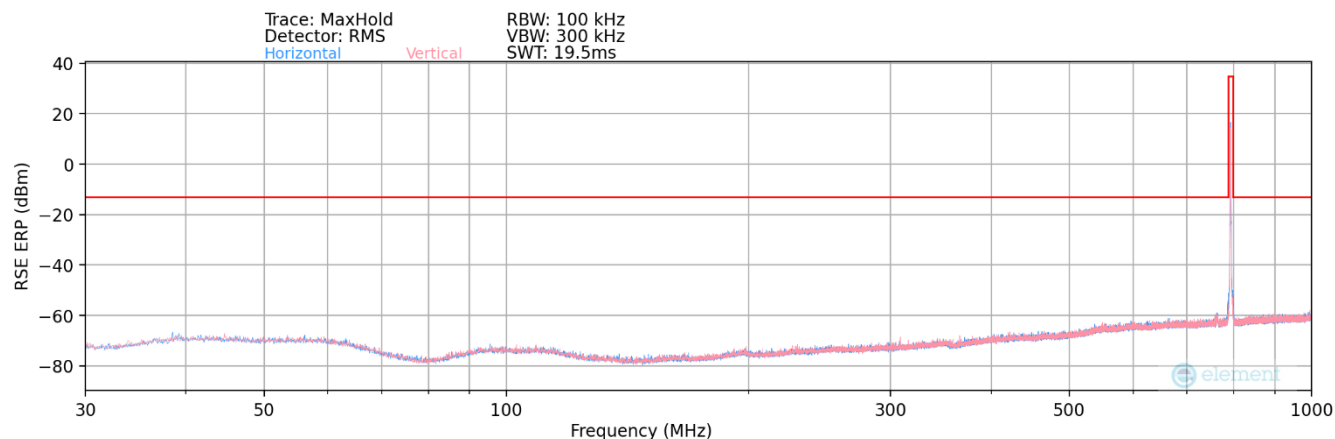
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 104 of 127

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 105 of 127

LTE Band 14 – Ant 1



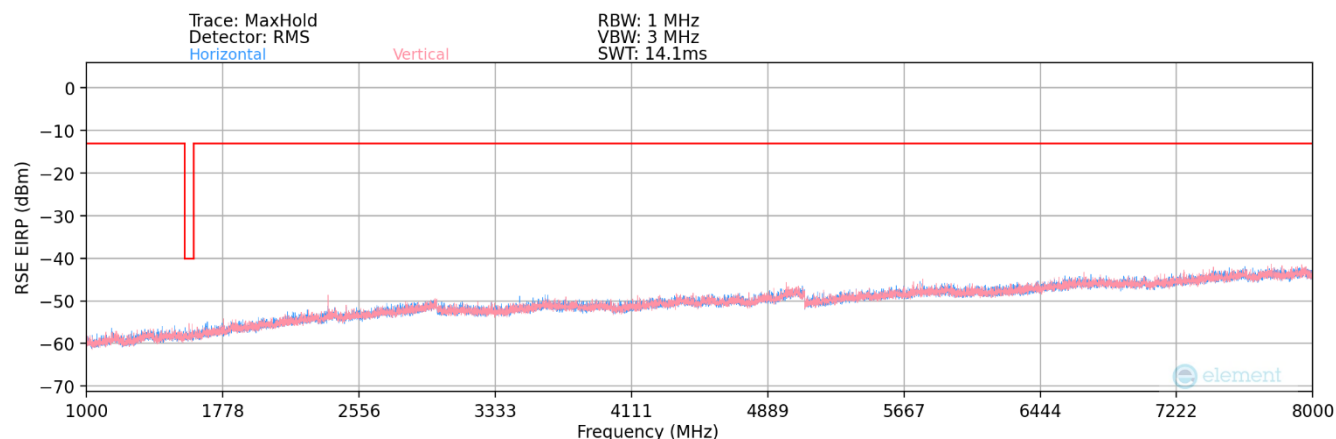
Plot 7-135. Radiated Spurious Plot Below 1GHz (LTE Band 14)

Bandwidth (MHz):	10
Frequency (MHz):	793
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
300.00	H	-	-	-74.66	-11.07	21.27	-76.13	-13.00	-63.13

Table 7-20. Radiated Spurious Data (LTE Band 14)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 106 of 127



Plot 7-136. Radiated Spurious Plot Above 1GHz (LTE Band 14)

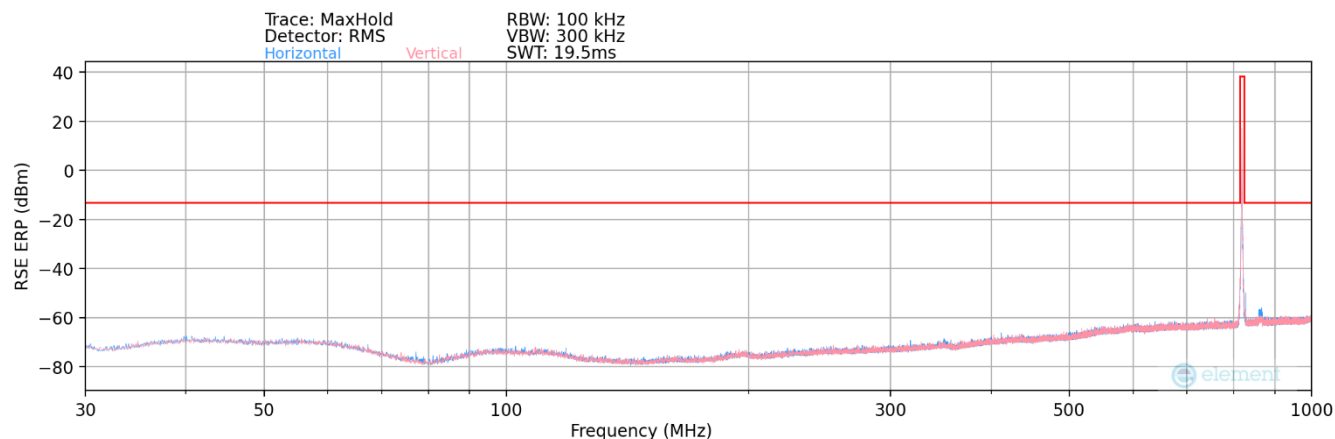
Bandwidth (MHz):	10
Frequency (MHz):	793
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.00	H	362	332	-72.05	-0.53	34.42	-60.84	-40.00	-20.84
2379.00	H	255	325	-75.82	3.92	35.10	-60.16	-13.00	-47.16
3172.00	H	-	-	-79.67	6.44	33.77	-61.49	-13.00	-48.49
3965.00	H	-	-	-80.09	8.07	34.98	-60.28	-13.00	-47.28
4758.00	H	-	-	-80.55	9.52	35.97	-59.29	-13.00	-46.29

Table 7-21. Radiated Spurious Data (LTE Band 14 – Mid Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 107 of 127

LTE Band 26 – Ant 1



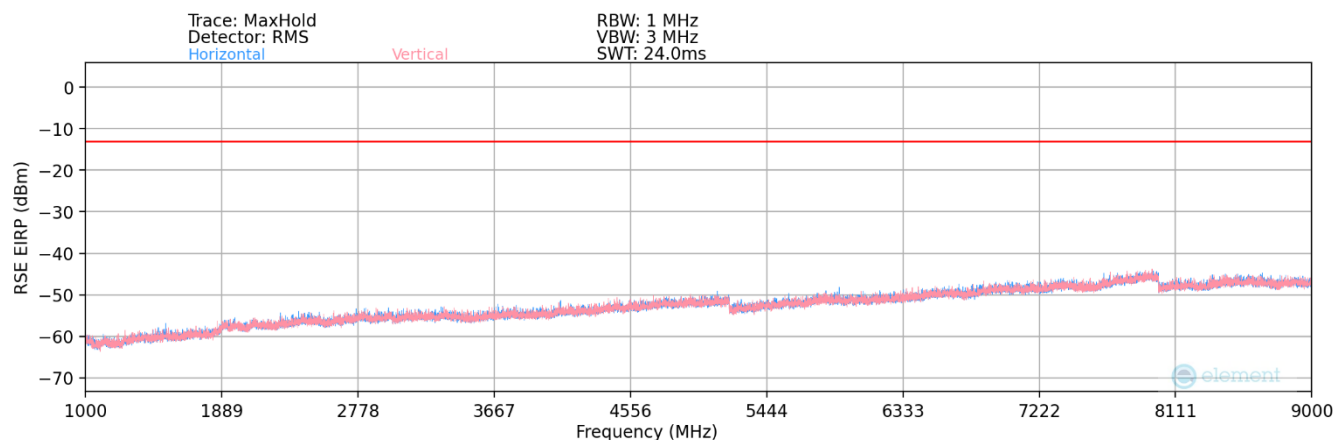
Plot 7-137. Radiated Spurious Plot Below 1GHz (LTE Band 26)

Bandwidth (MHz):	10
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
300.00	H	-	-	-74.22	-11.07	21.71	-75.69	-13.00	-62.69

Table 7-22. Radiated Spurious Data (LTE Band 26)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 108 of 127



Plot 7-138. Radiated Spurious Plot Above 1GHz (LTE Band 26)

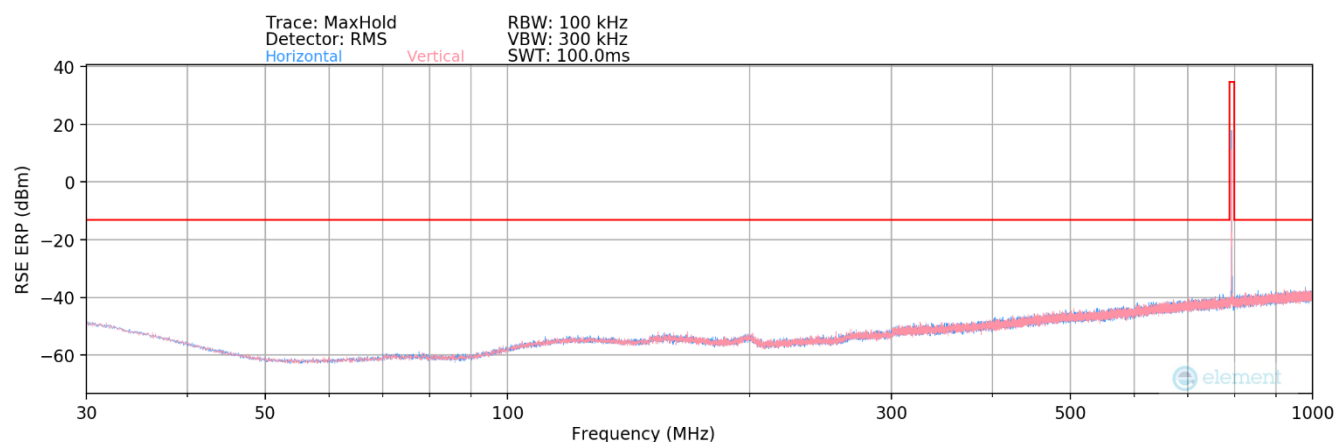
Bandwidth (MHz):	15
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.00	H	318	299	-77.05	-1.34	28.61	-66.64	-13.00	-53.64
2457.00	H	139	234	-77.67	2.89	32.22	-63.03	-13.00	-50.03
3276.00	H	-	-	-78.80	4.09	32.29	-62.97	-13.00	-49.97
4095.00	H	-	-	-79.56	5.82	33.26	-61.99	-13.00	-48.99
4914.00	H	-	-	-79.64	6.97	34.33	-60.93	-13.00	-47.93

Table 7-23. Radiated Spurious Data (LTE Band 26 – Mid Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 109 of 127

NR Band n14 – Ant 1

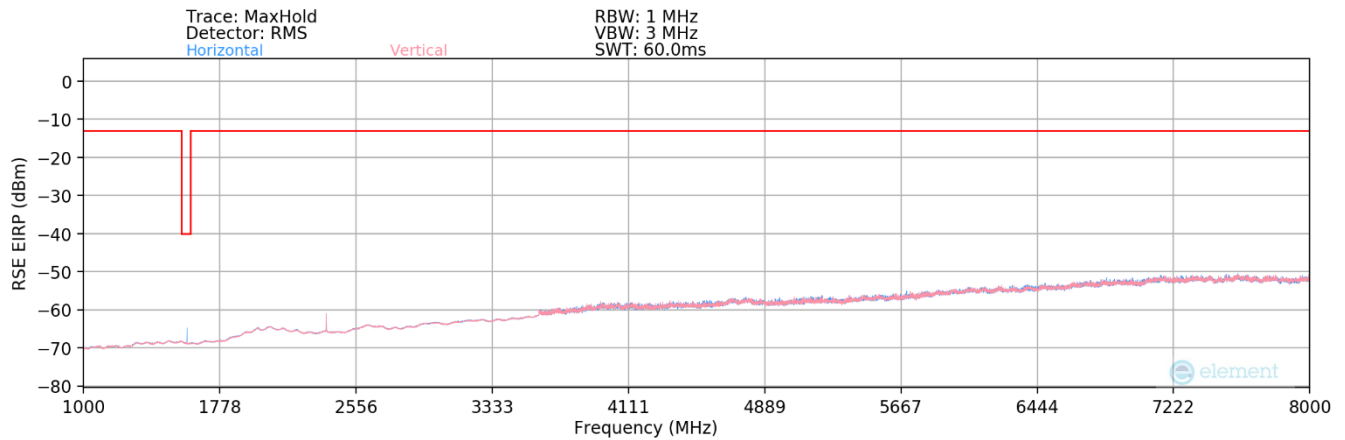


Plot 7-139. Radiated Spurious Plot Below 1GHz (NR Band n14)

Bandwidth (MHz):	10								
Frequency (MHz):	793								
RB / Offset:	1 / 25								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
300.00	H	-	-	-74.70	21.22	53.52	-43.89	-13.00	-30.89

Table 7-24. Radiated Spurious Data (NR Band n14)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 110 of 127



Plot 7-140. Radiated Spurious Plot Above 1GHz (NR Band n14)

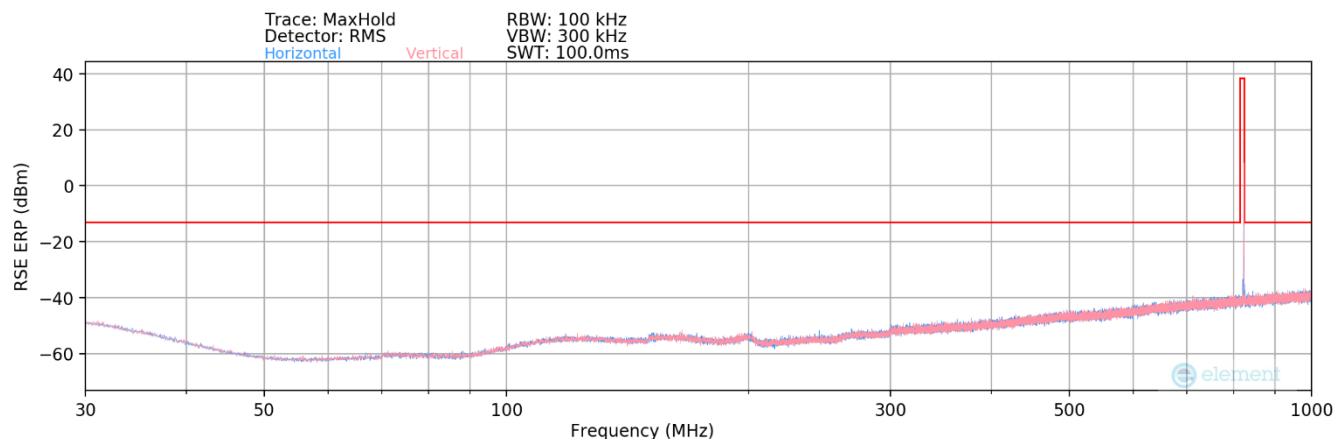
Bandwidth (MHz):	10
Frequency (MHz):	793
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.00	H	125	195	-67.88	-7.02	32.10	-63.15	-40.00	-23.15
2379.00	H	148	30	-47.73	-3.92	55.35	-39.91	-13.00	-26.91
3172.00	H	-	-	-78.00	-1.28	27.72	-67.54	-13.00	-54.54
3965.00	H	-	-	-78.01	1.57	30.56	-64.70	-13.00	-51.70
4758.00	H	-	-	-78.90	2.96	31.06	-64.20	-13.00	-51.20

Table 7-25. Radiated Spurious Data (NR Band n14– Mid Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset	Page 111 of 127

NR Band n26 – Ant 1



Plot 7-141. Radiated Spurious Plot Below 1GHz (NR Band n26)

Bandwidth (MHz):	20
Frequency (MHz):	824
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
300.00	H	-	-	-74.70	21.22	53.52	-43.89	-13.00	-30.89

Table 7-26. Radiated Spurious Data (NR Band n26 – Mid Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2508250078-12.A3L	Test Dates: 09/02/2025 - 10/17/2025	EUT Type: Portable Handset		Page 112 of 127