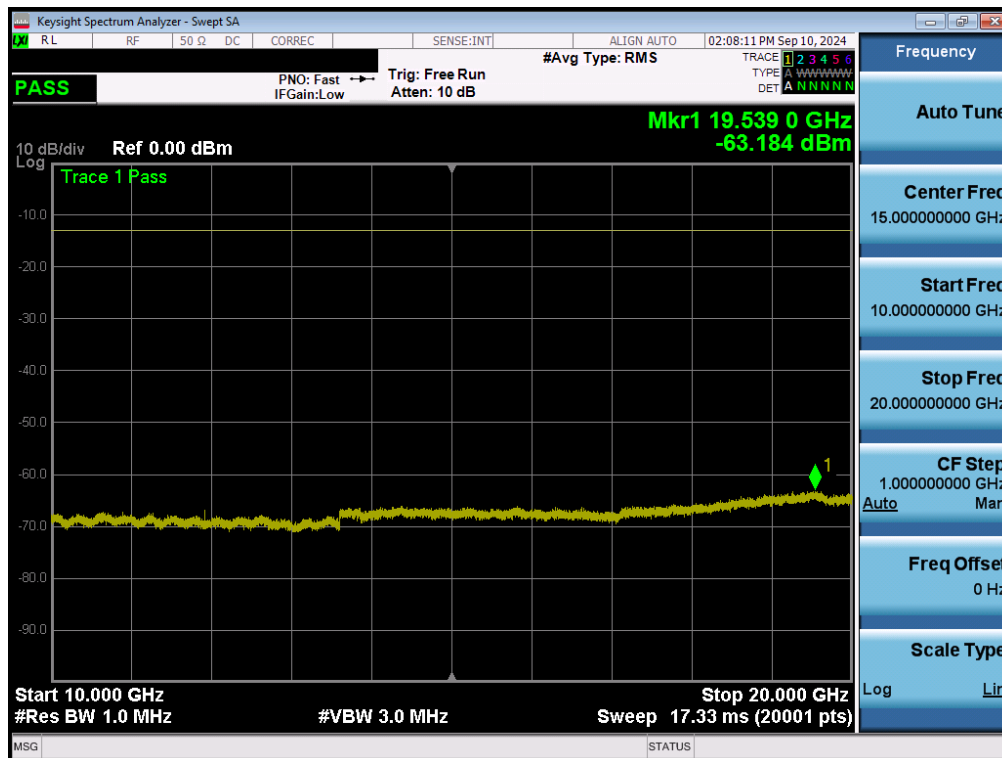
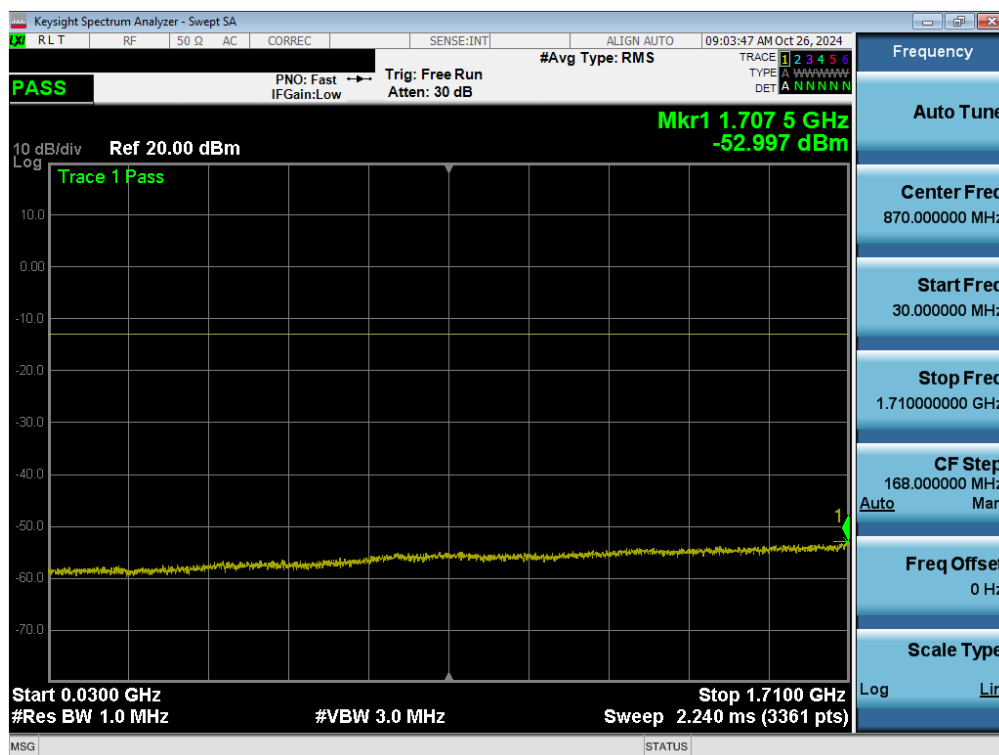




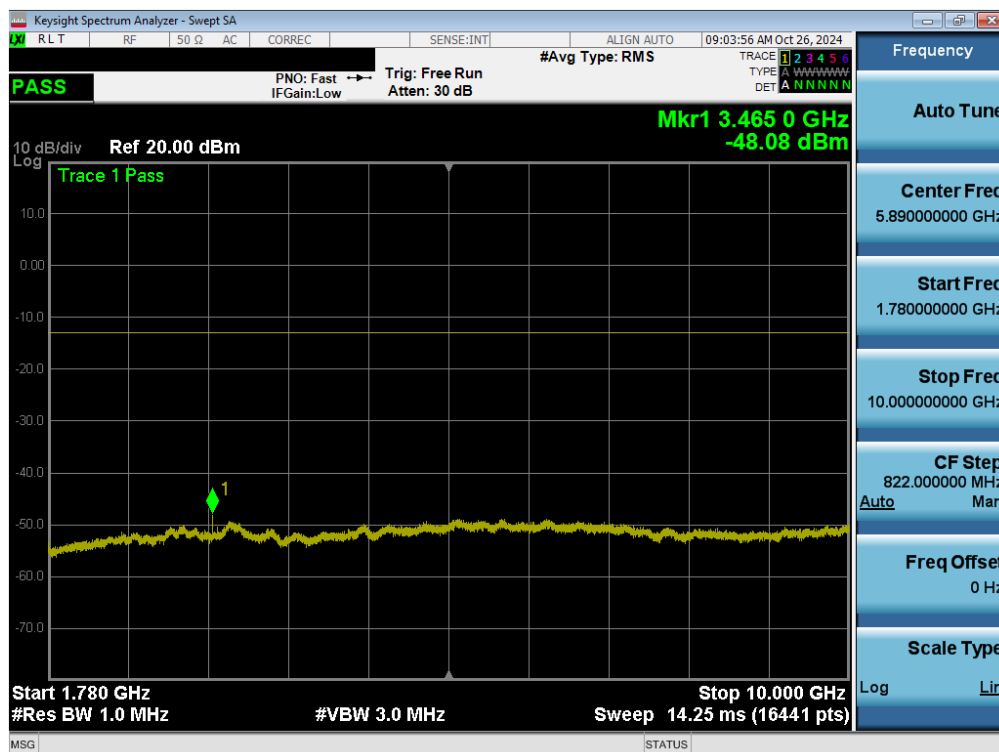
Plot 7-221. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT1

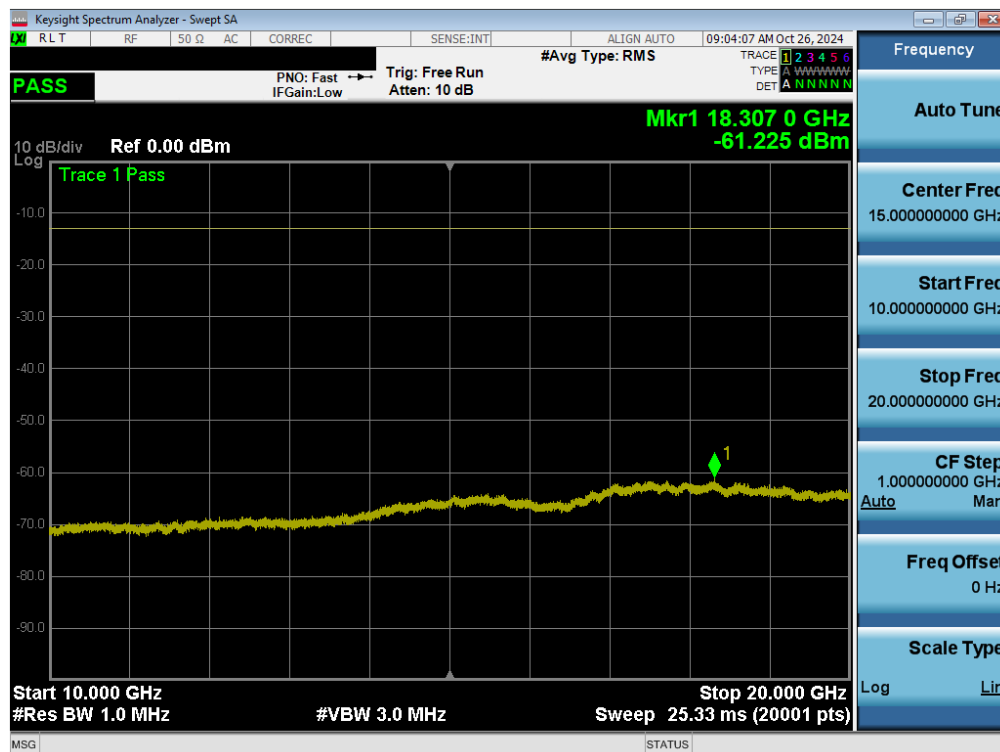


Plot 7-222. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Low Channel - ANT1)



Plot 7-223. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 144 of 276



Plot 7-224. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 145 of 276

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 71	20 MHz	Low	30.0 - 662.0	-64.02	-13	-51.02
		Low	698.0 - 1000.0	-65.61	-13	-52.61
		Low	1000.0 - 10000.0	-46.13	-13	-33.13
		Mid	30.0 - 663.0	-66.00	-13	-53.00
		Mid	698.0 - 1000.0	-65.69	-13	-52.69
		Mid	1000.0 - 10000.0	-45.55	-13	-32.55
		High	30.0 - 663.0	-66.15	-13	-53.15
		High	699.0 - 1000.0	-63.62	-13	-50.62
		High	1000.0 - 10000.0	-44.86	-13	-31.86
LTE Band 12	10 MHz	Low	30.0 - 697.9	-63.02	-13	-50.02
		Low	716.0 - 1000.0	-65.50	-13	-52.50
		Low	1000.0 - 10000.0	-44.66	-13	-31.66
		Mid	30.0 - 698.0	-65.04	-13	-52.04
		Mid	716.0 - 1000.0	-65.72	-13	-52.72
		Mid	1000.0 - 10000.0	-44.76	-13	-31.76
		High	30.0 - 697.9	-65.29	-13	-52.29
		High	716.1 - 1000.0	-61.86	-13	-48.86
		High	1000.0 - 10000.0	-44.66	-13	-31.66
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-65.73	-35	-30.73
		Mid	787.0 - 1000.0	-65.48	-13	-52.48
		Mid	1000.0 - 20000.0	-47.34	-13	-34.34

Table 7-11. Conducted Spurious Emissions Results – Ant2

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n71	35 MHz	Mid	30.0 - 663.0	-63.63	-13	-50.63
		Mid	698.0 - 1000.0	-63.02	-13	-50.02
		Mid	1000.0 - 10000.0	-43.66	-13	-30.66
NR Band n12	15 MHz	Low	30.0 - 698.0	-61.37	-13	-48.37
		Low	716.0 - 1000.0	-63.21	-13	-50.21
		Low	1000.0 - 10000.0	-46.51	-13	-33.51
		Mid	30.0 - 698.0	-61.60	-13	-48.60
		Mid	716.0 - 1000.0	-63.29	-13	-50.29
		Mid	1000.0 - 10000.0	-45.69	-13	-32.69
		High	30.0 - 698.0	-62.81	-13	-49.81
		High	716.0 - 1000.0	-62.20	-13	-49.20
		High	1000.0 - 10000.0	-46.33	-13	-33.33

Table 7-12. Conducted Spurious Emissions Results – Ant2

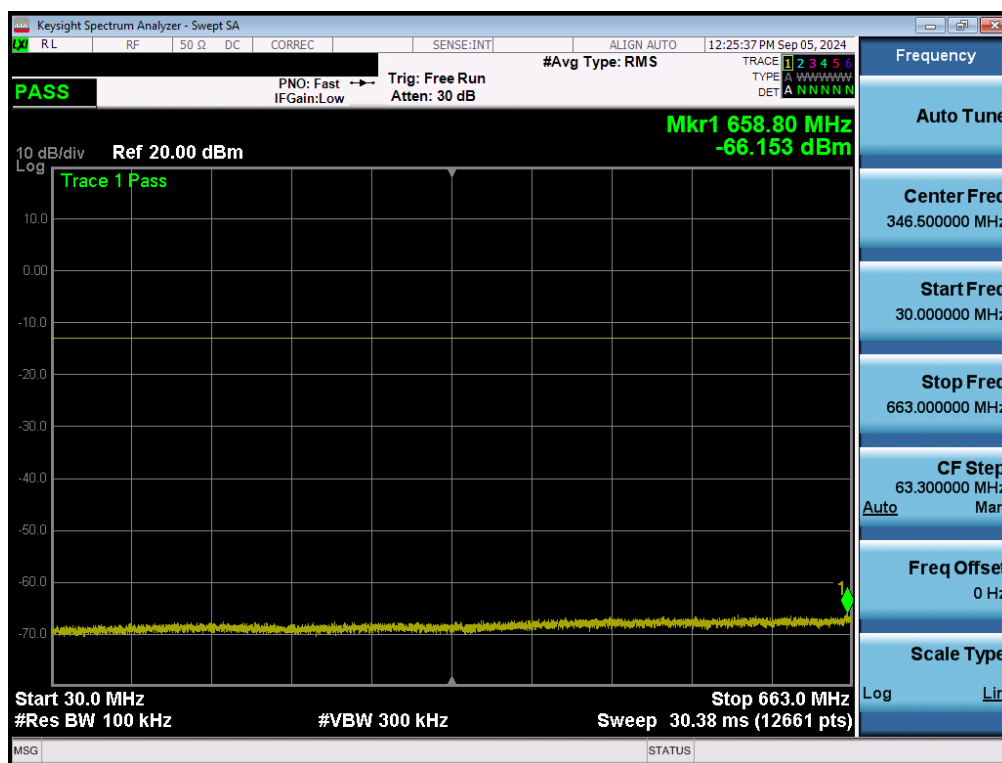
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 146 of 276

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B66-4	20 MHz	Low	30.0 - 663.0	-53.04	-13	-40.04
		Low	698.0 - 1000.0	-47.34	-13	-34.34
		Low	1000.0 - 10000.0	-62.91	-13	-49.91
		Mid	30.0 - 663.0	-53.64	-13	-40.64
		Mid	698.0 - 1000.0	-47.31	-13	-34.31
		Mid	1000.0 - 10000.0	-62.90	-13	-49.90
		High	30.0 - 663.0	-53.71	-13	-40.71
		High	698.0 - 1000.0	-47.50	-13	-34.50
		High	1000.0 - 10000.0	-63.13	-13	-50.13
NR Band n70	15 MHz	Mid	30.0 - 1695.0	-49.99	-13	-36.99
		Mid	1710.0 - 10000.0	-47.38	-13	-34.38
		Mid	10000.0 - 20000.0	-62.44	-13	-49.44
NR Band n66	45 MHz	Low	30.0 - 1710.0	-52.57	-13	-39.57
		Low	1780.0 - 10000.0	-48.43	-13	-35.43
		Low	10000.0 - 20000.0	-61.34	-13	-48.34
		Mid	30.0 - 1710.0	-53.21	-13	-40.21
		Mid	1780.0 - 10000.0	-48.31	-13	-35.31
		Mid	10000.0 - 20000.0	-61.42	-13	-48.42
		High	30.0 - 1710.0	-53.18	-13	-40.18
		High	1780.0 - 10000.0	-47.86	-13	-34.86
		High	10000.0 - 20000.0	-63.13	-13	-50.13

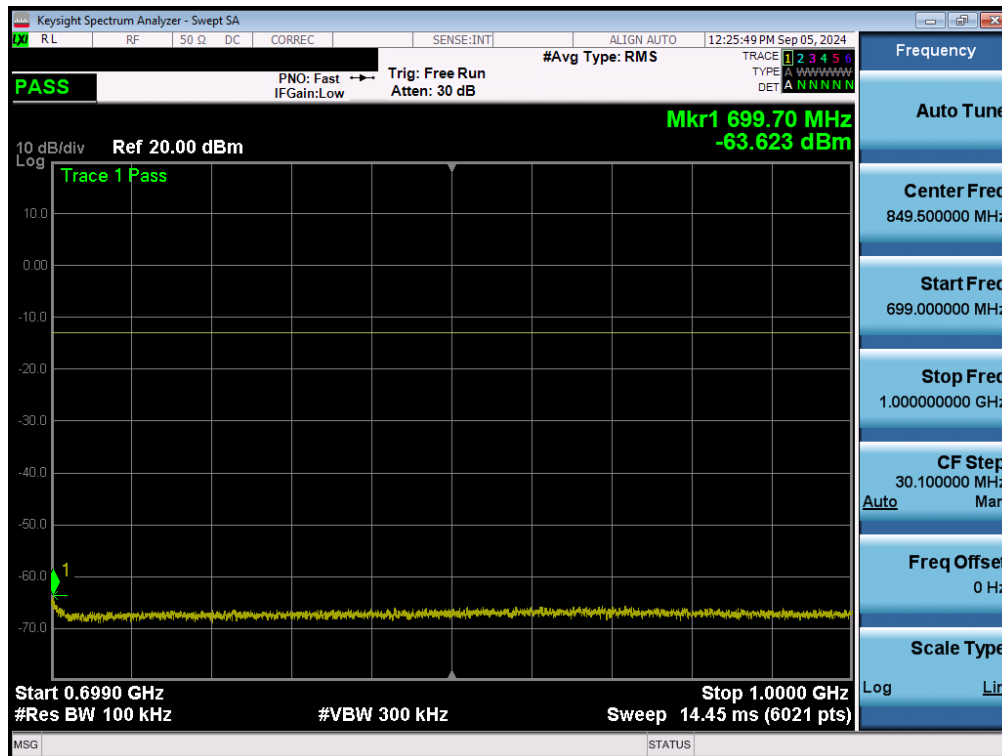
Table 7-13. Conducted Spurious Emissions Results – Ant2

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 147 of 276

LTE Band 71 – ANT2

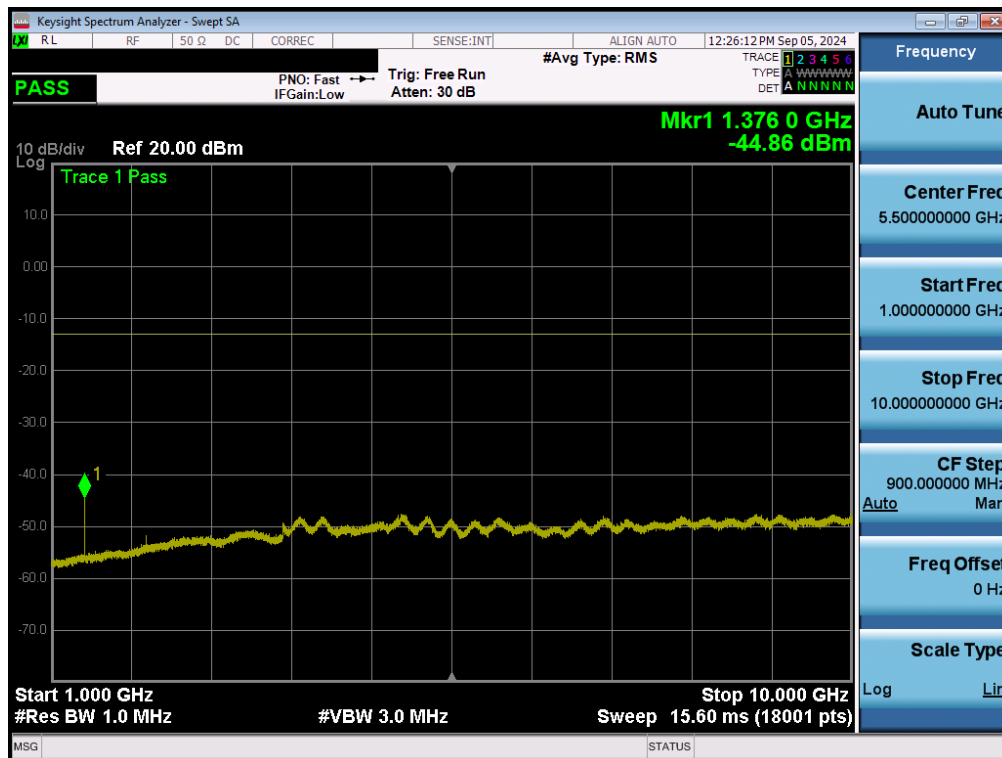


Plot 7-225. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - ANT2)



Plot 7-226. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - ANT2)

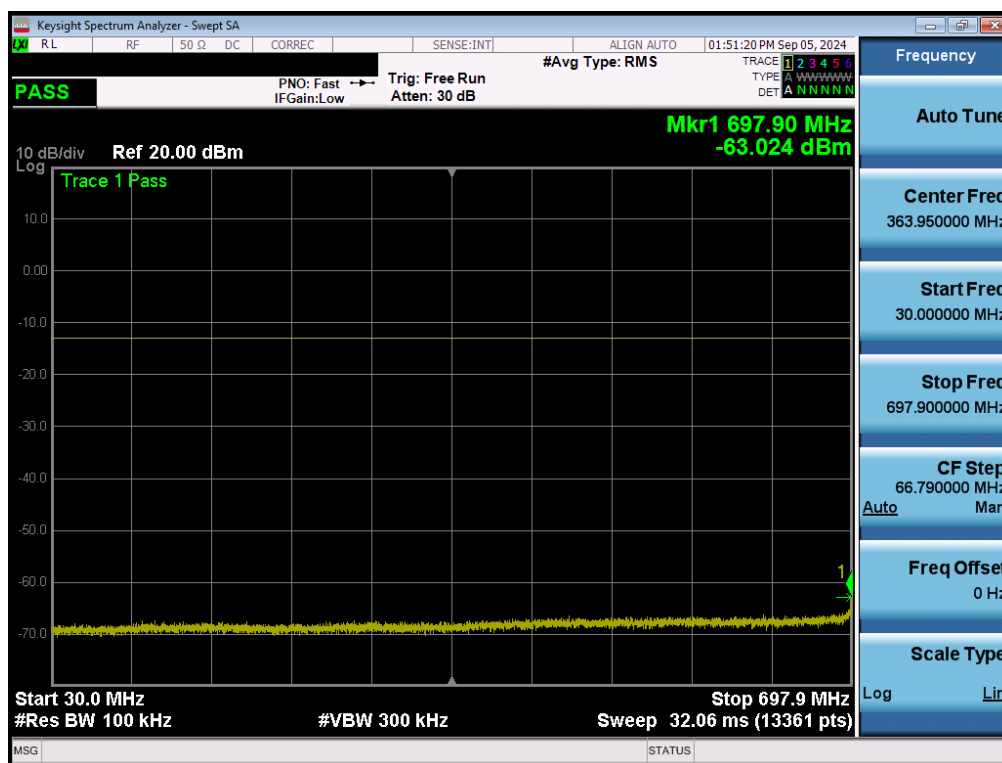
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 148 of 276



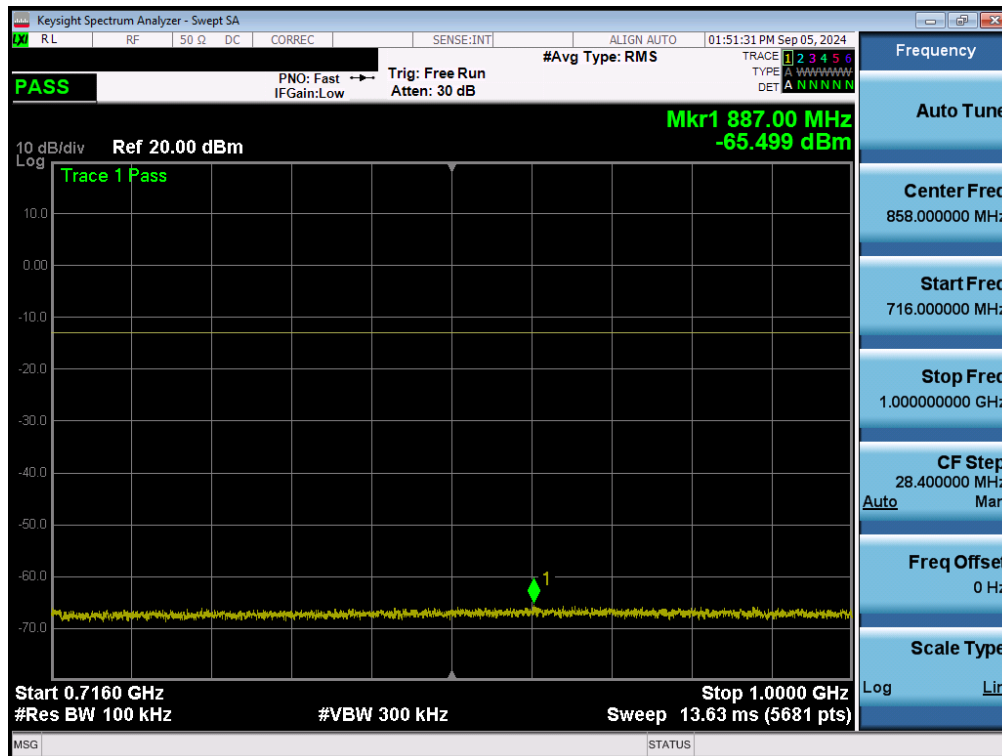
Plot 7-227. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12 – ANT2

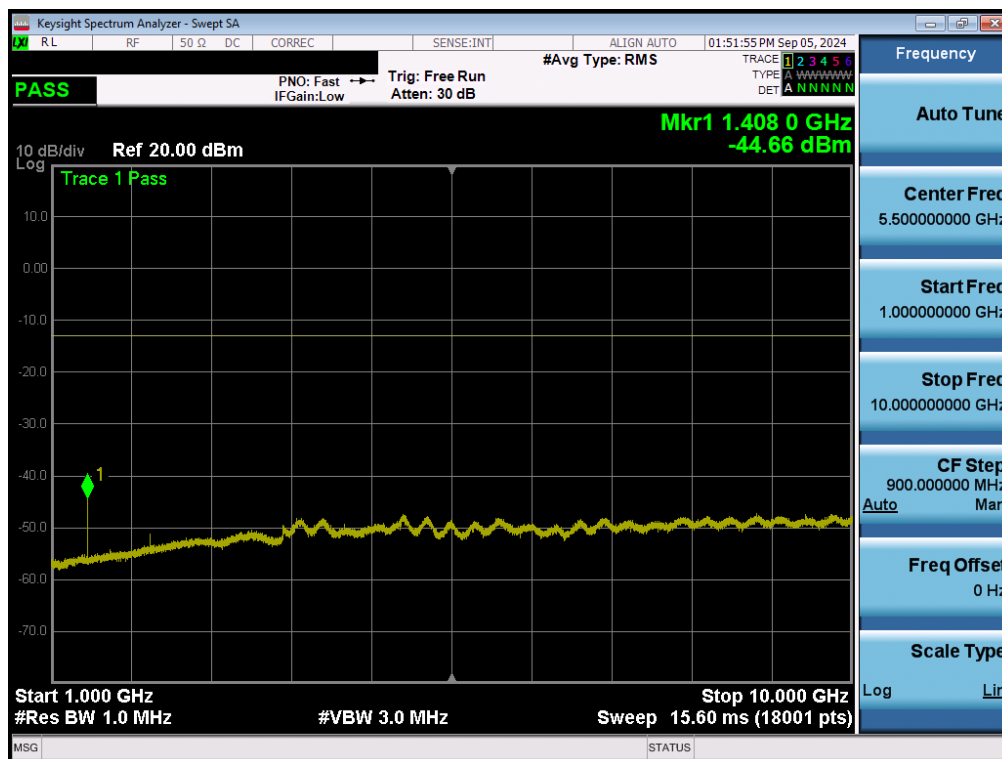


Plot 7-228. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT2)



Plot 7-229. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT2)

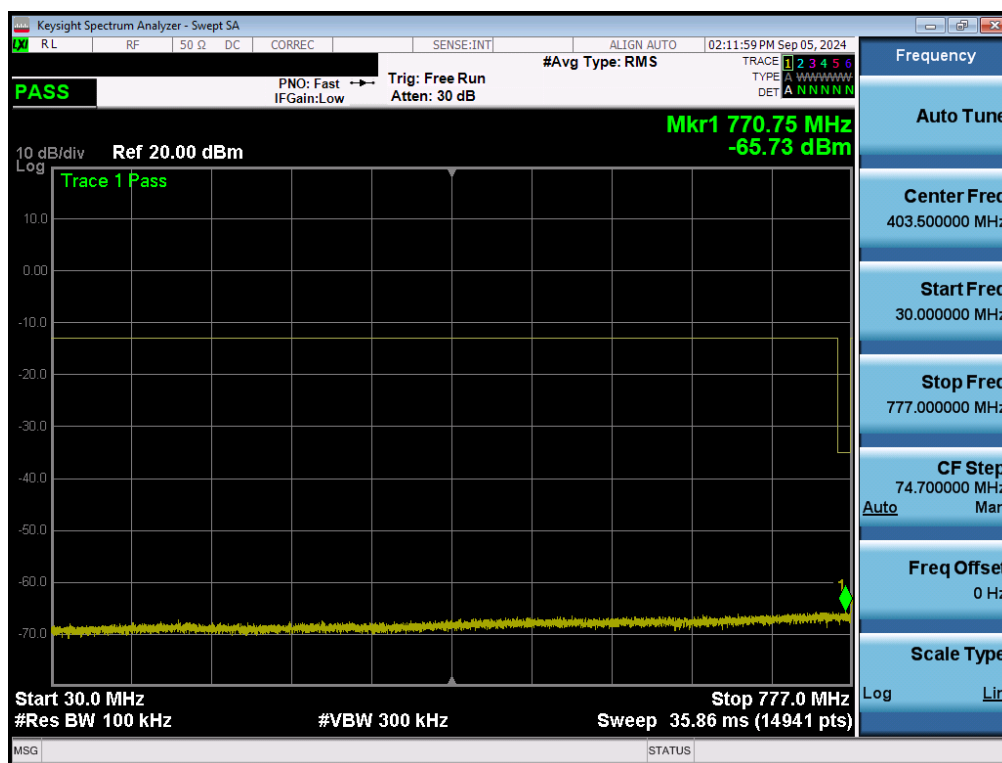
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 150 of 276



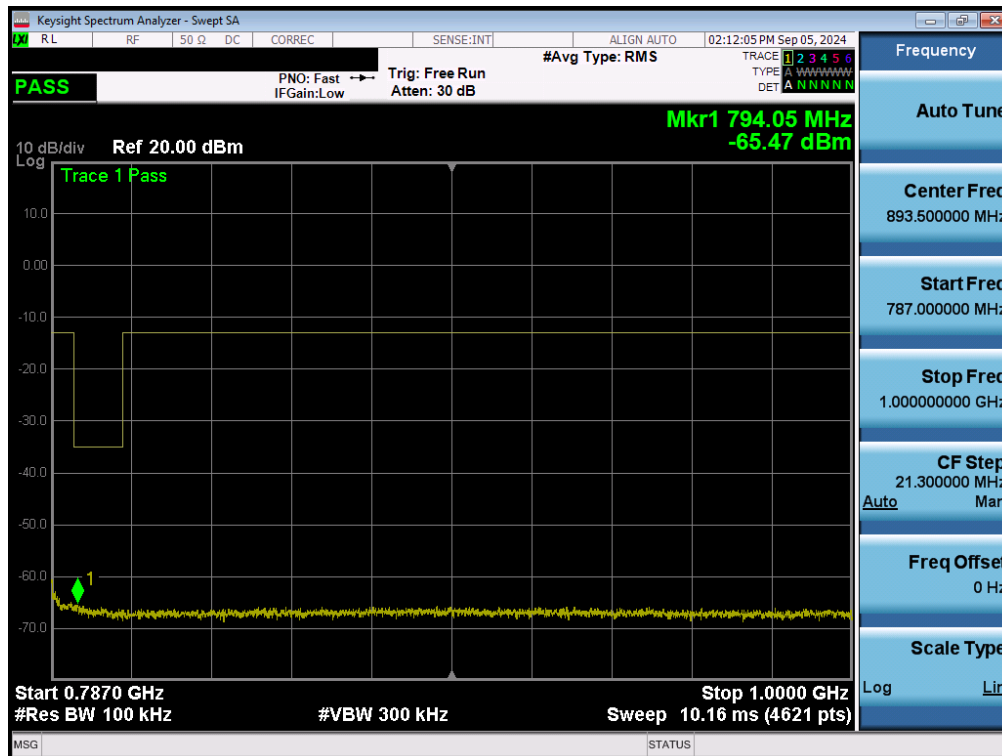
Plot 7-230. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 151 of 276

LTE Band 13 – ANT2

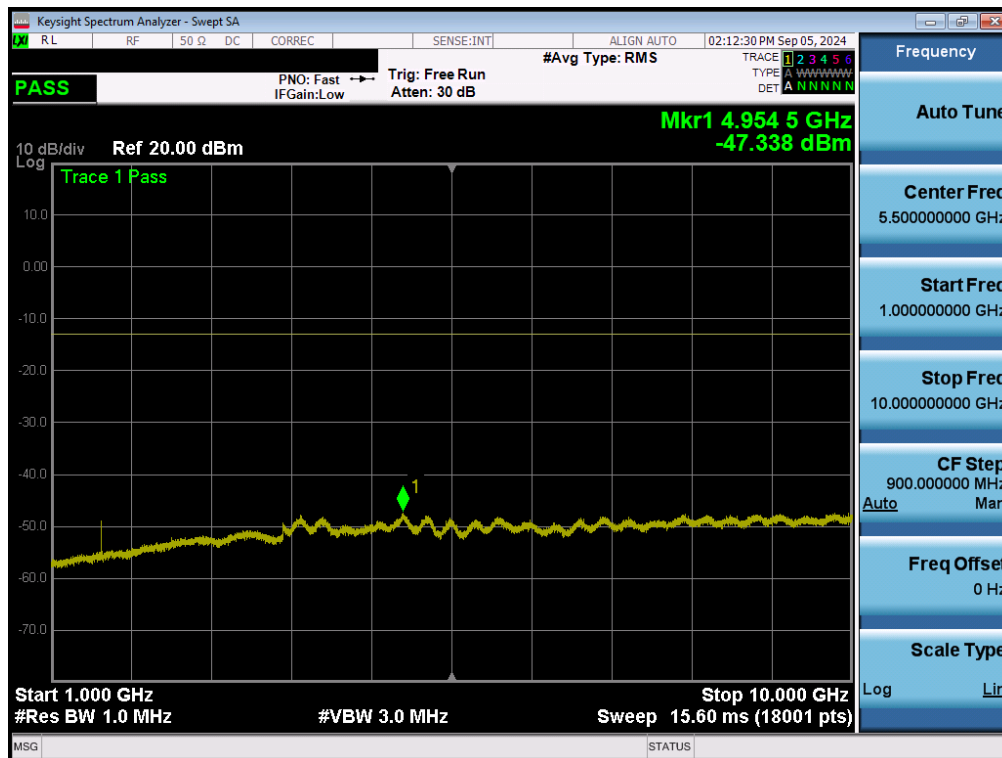


Plot 7-231. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



Plot 7-232. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

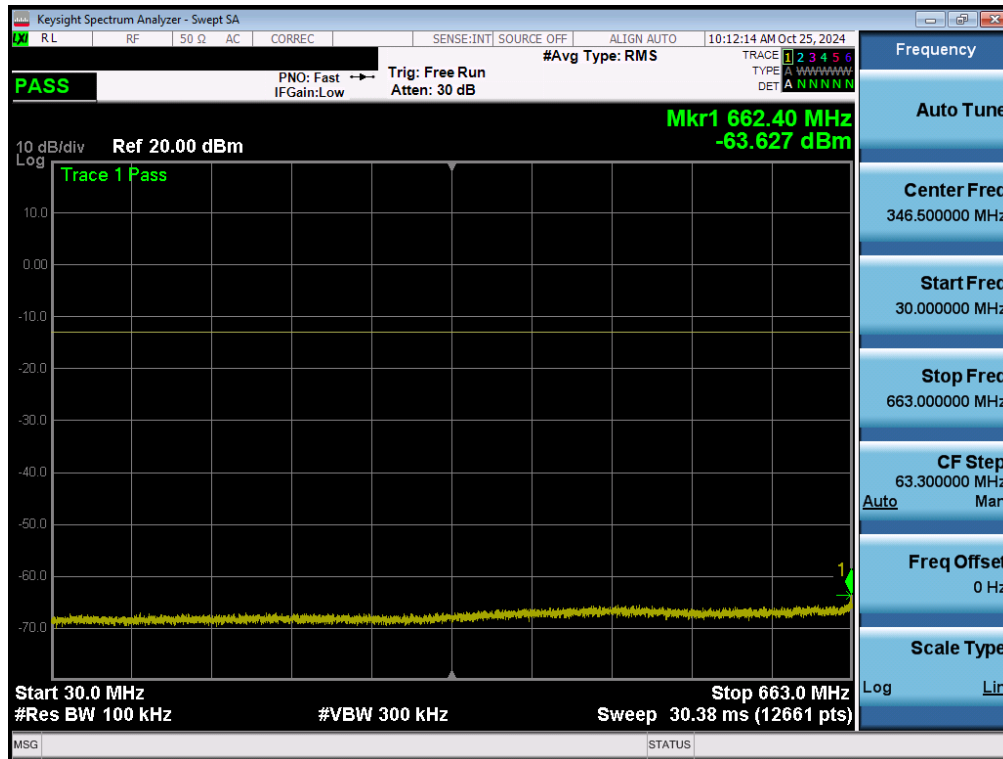
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 152 of 276



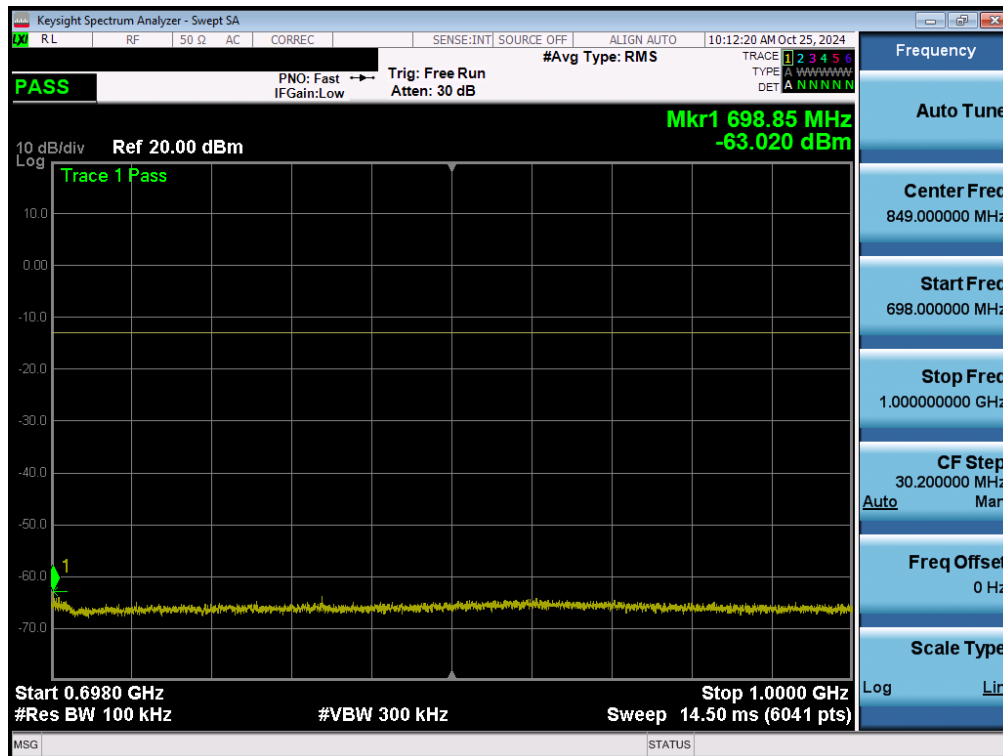
Plot 7-233. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71 – ANT2

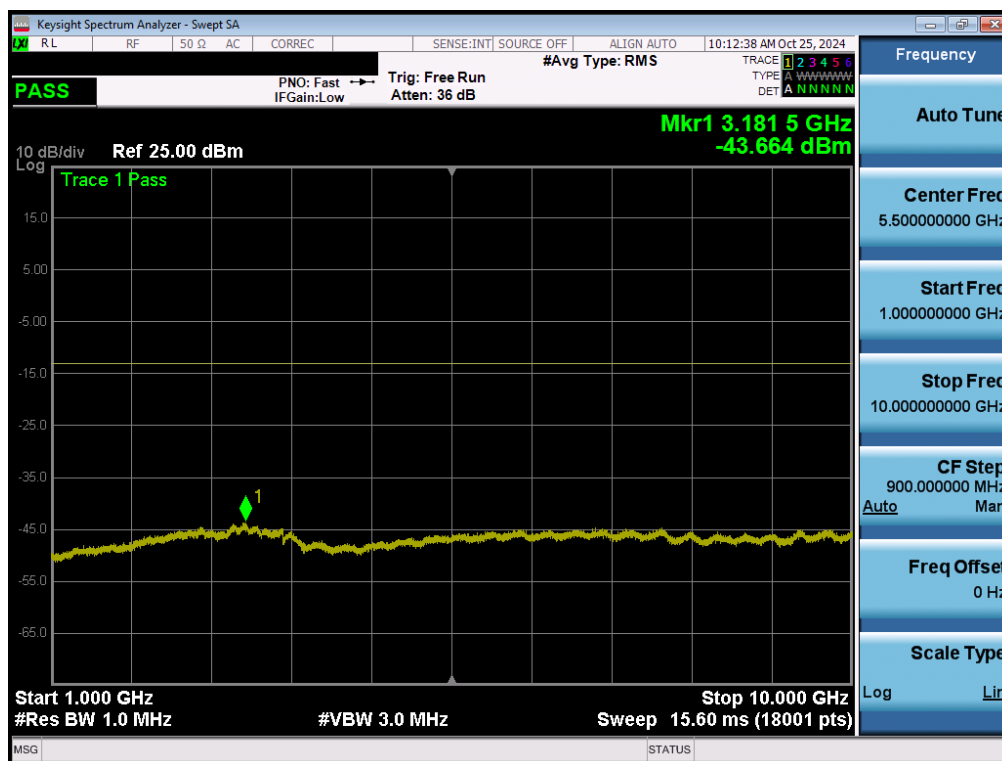


Plot 7-234. Conducted Spurious Plot (NR Band n71 - 35MHz - 1 RB - ANT2)



Plot 7-235. Conducted Spurious Plot (NR Band n71 - 35MHz - 1 RB - ANT2)

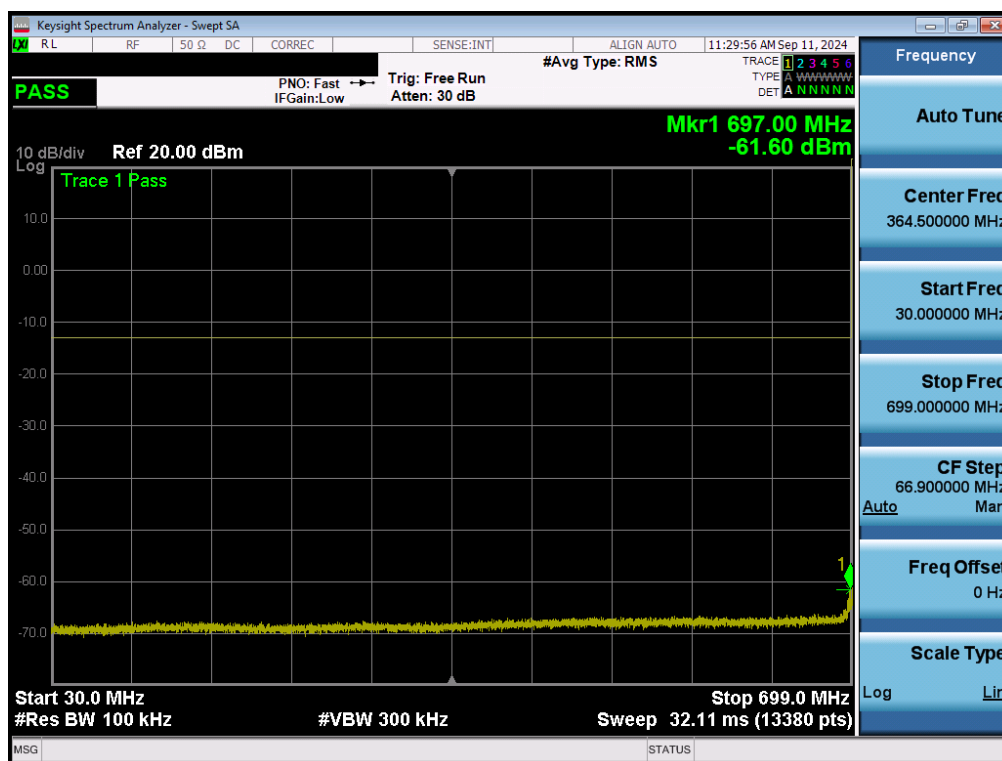
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 154 of 276



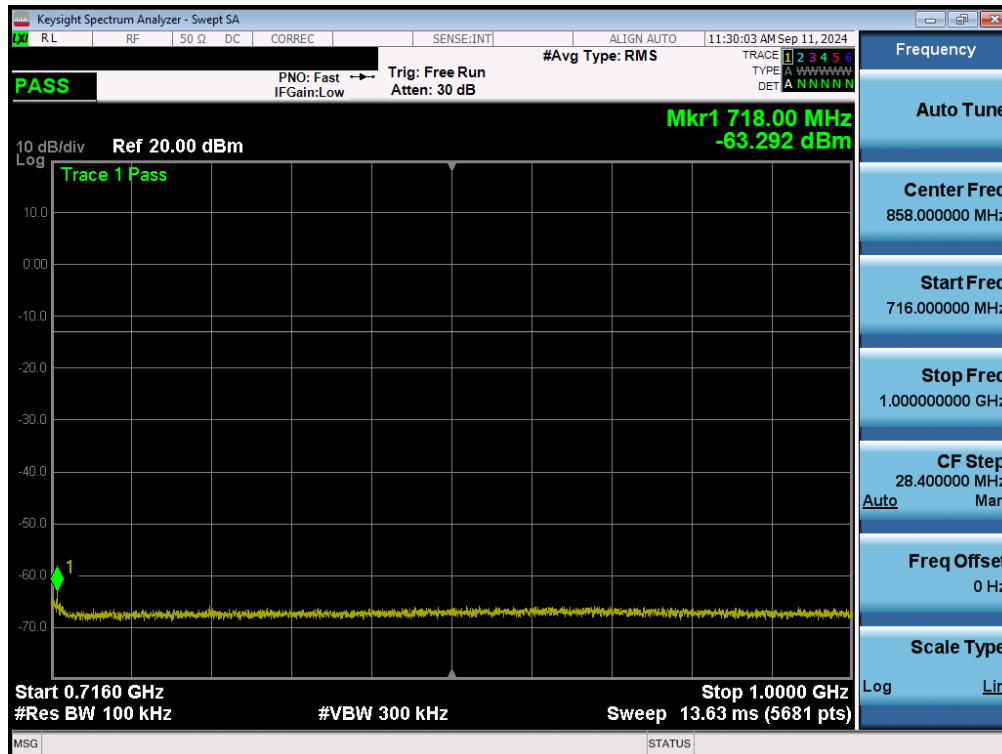
Plot 7-236. Conducted Spurious Plot (NR Band n71 - 35MHz - 1 RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12 – ANT2

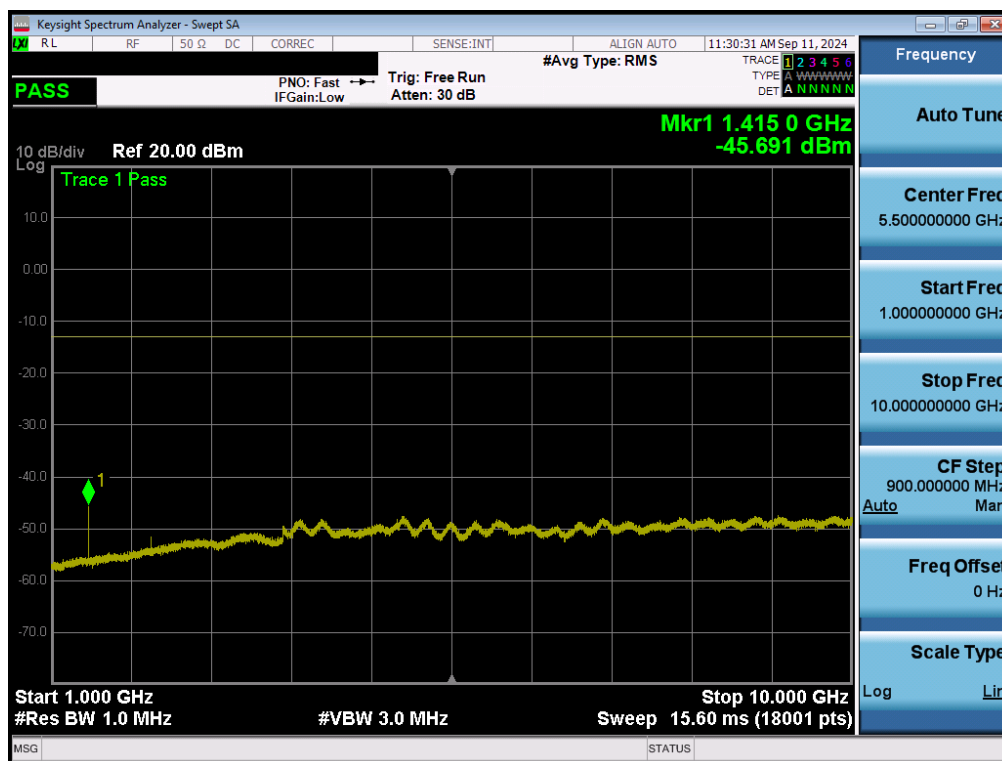


Plot 7-237. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - ANT2)



Plot 7-238. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - ANT2)

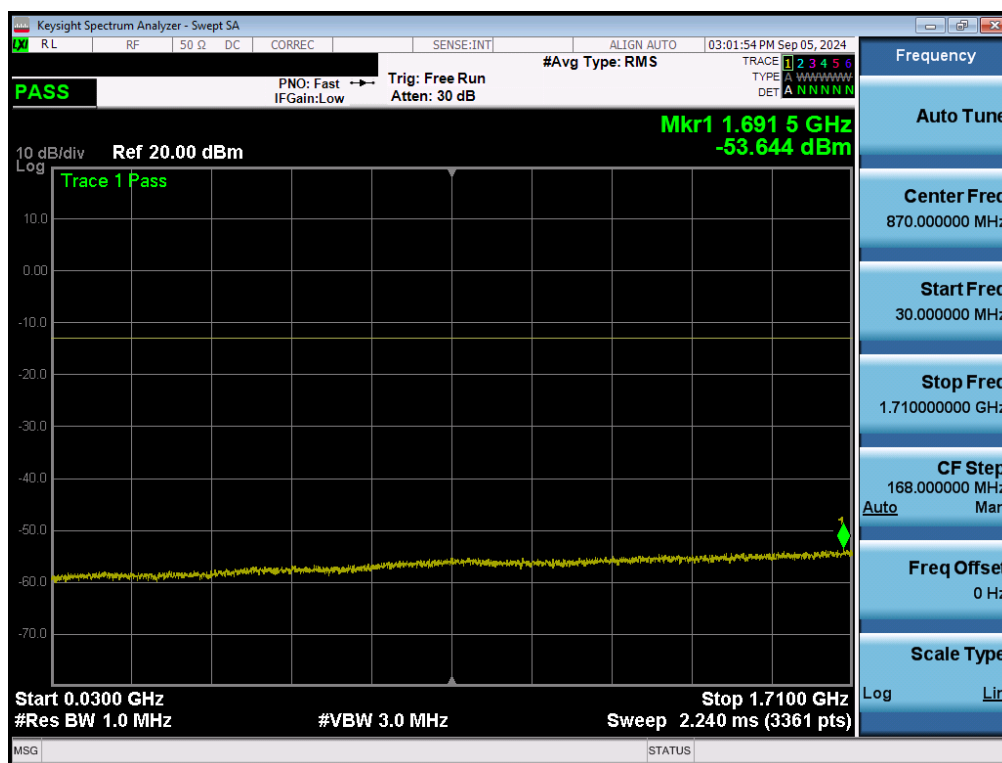
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 156 of 276



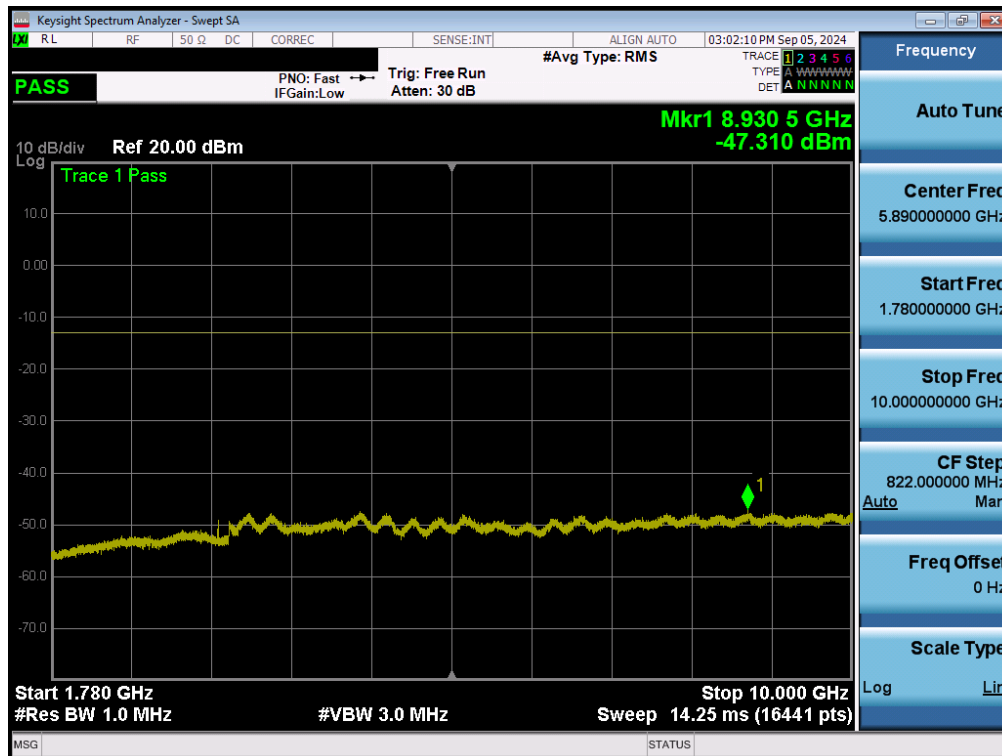
Plot 7-239. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB – Mid Channel - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT2

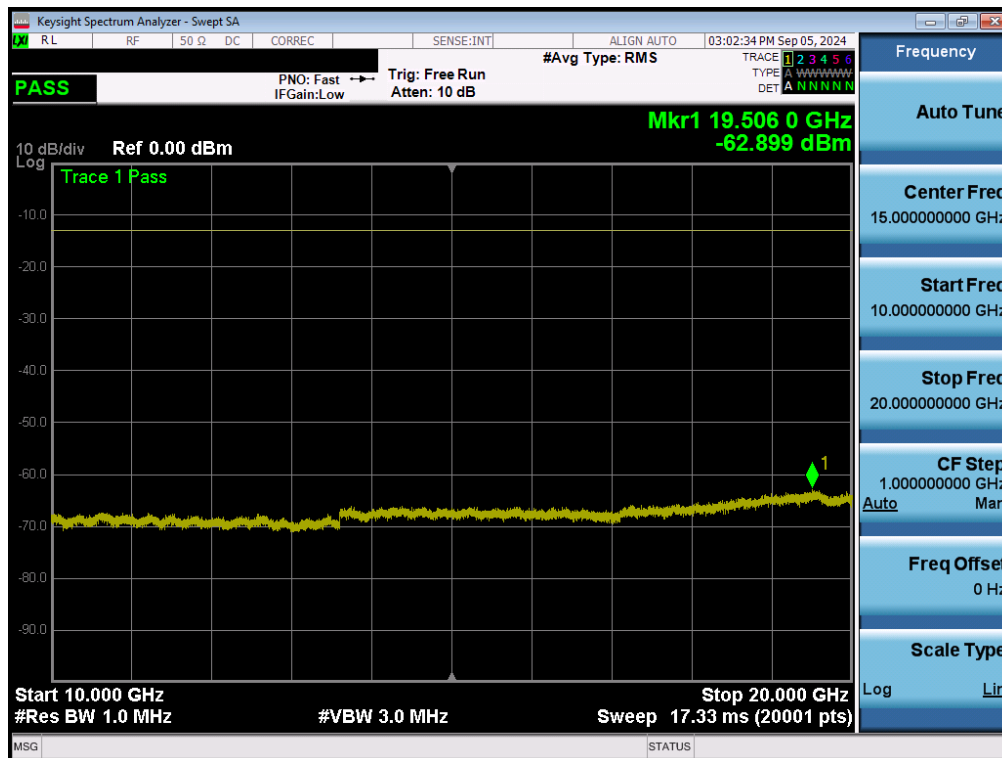


Plot 7-240. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Mid Channel)



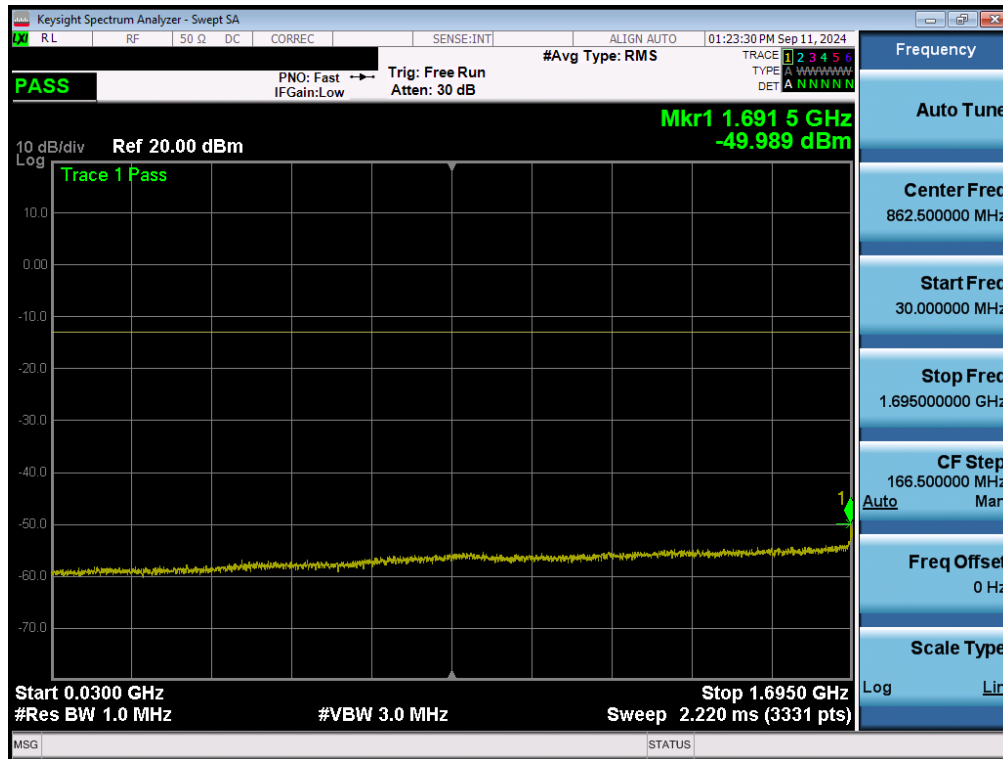
Plot 7-241. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Mid Channel)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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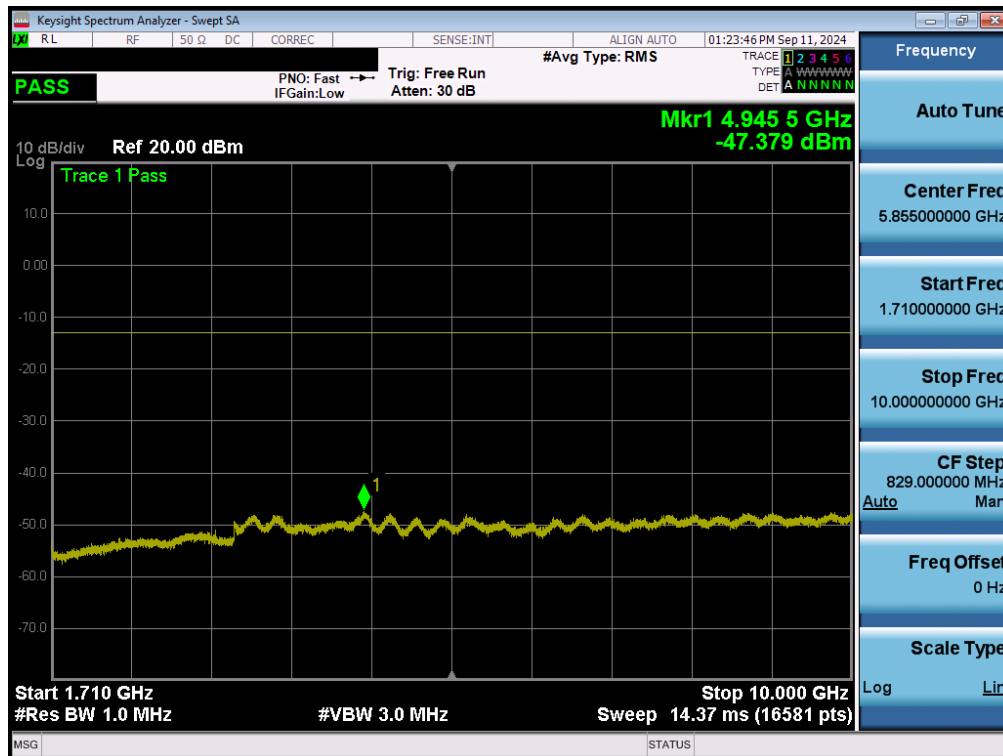


FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70 – ANT2

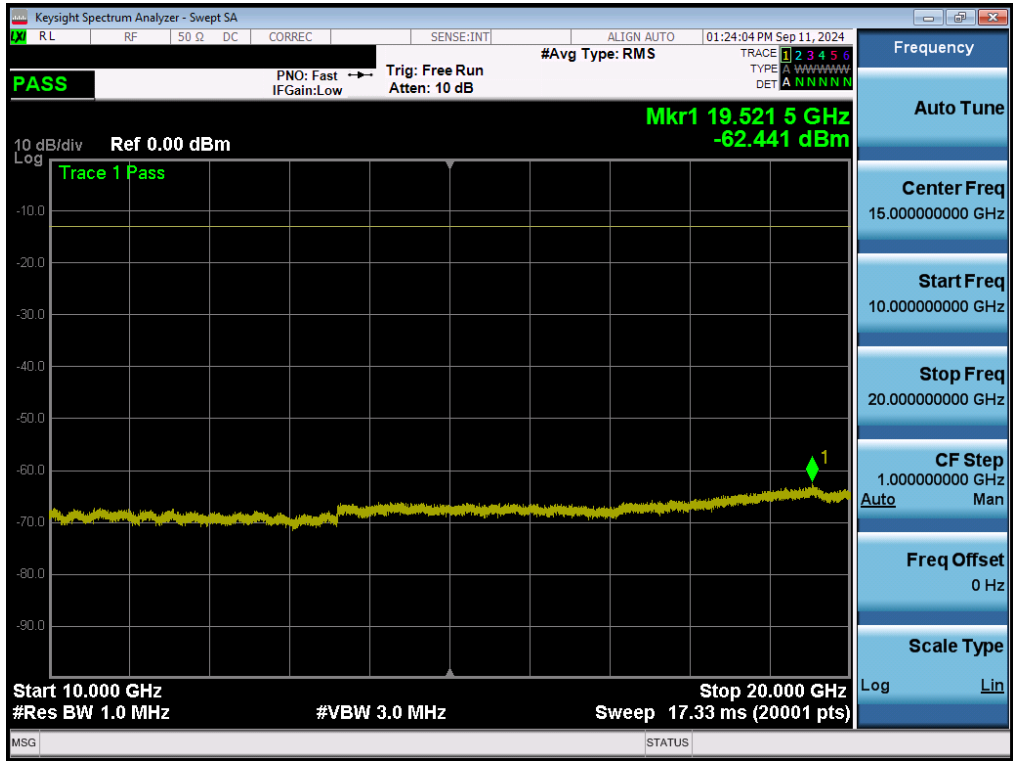


Plot 7-243. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT2)



Plot 7-244. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT2)

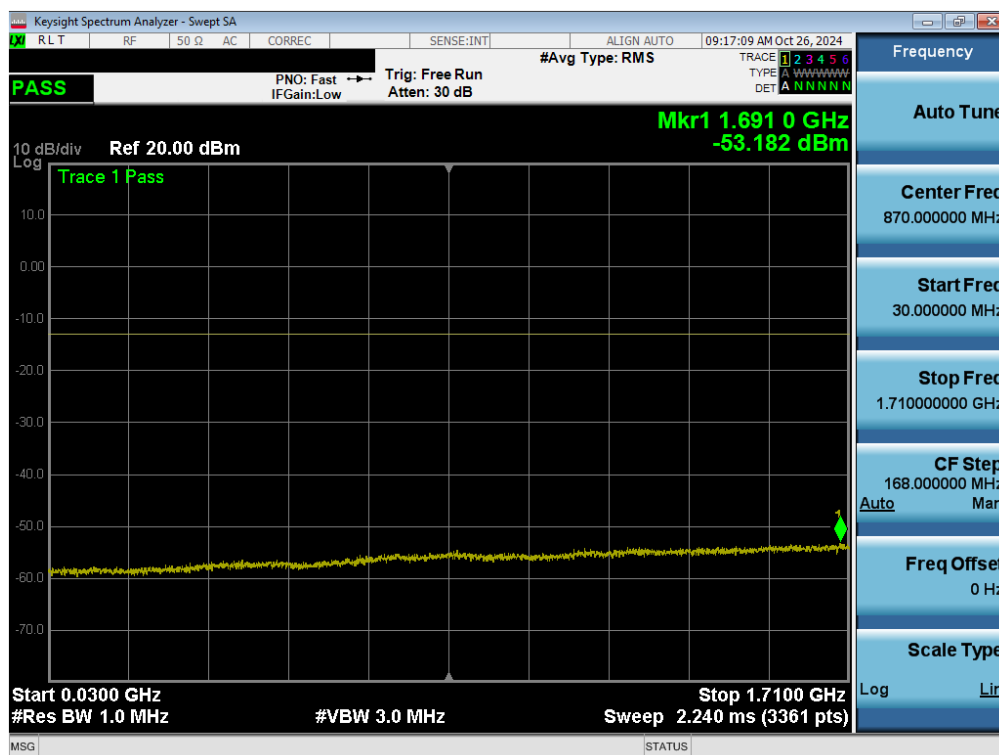
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 160 of 276



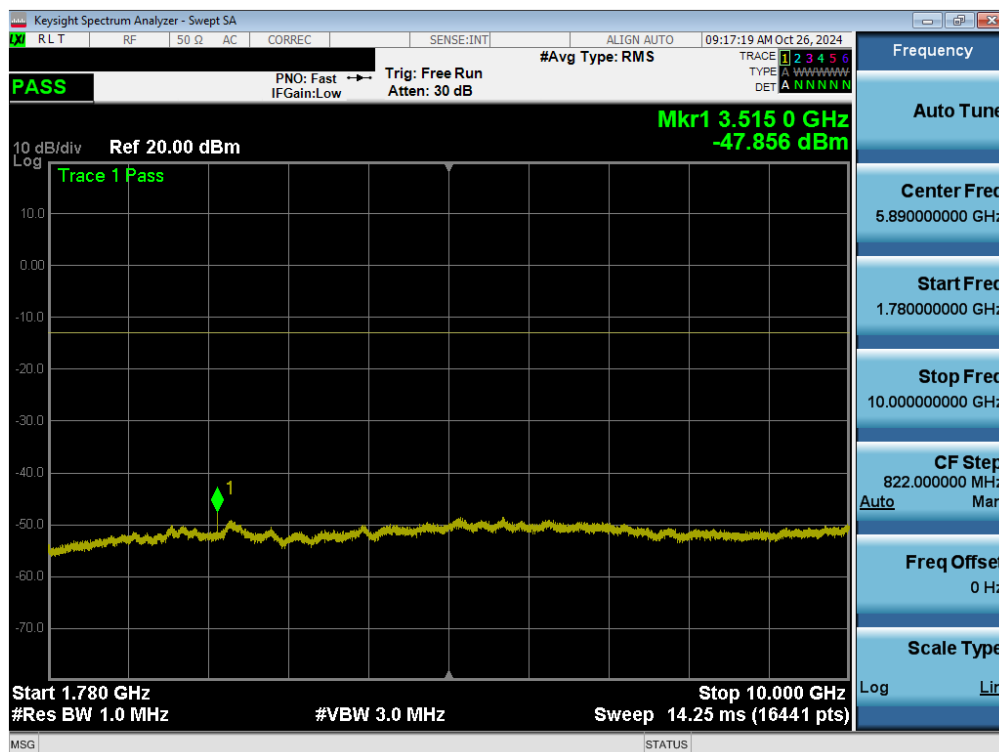
Plot 7-245. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT2

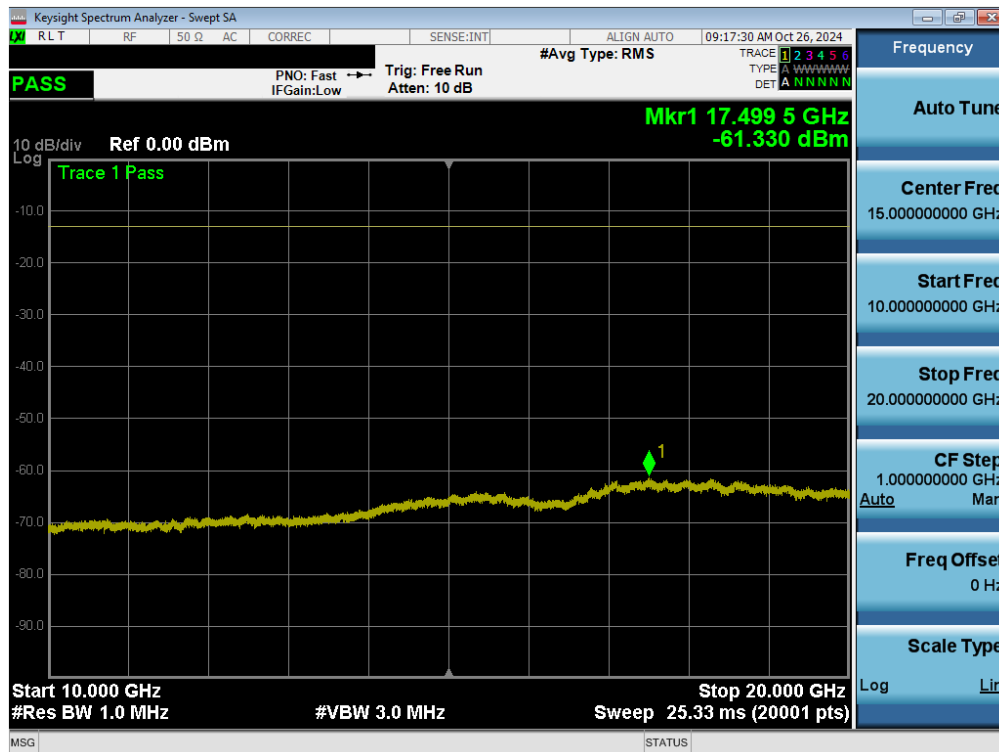


Plot 7-246. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Mid Channel - ANT2)



Plot 7-247. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Mid Channel - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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.

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.

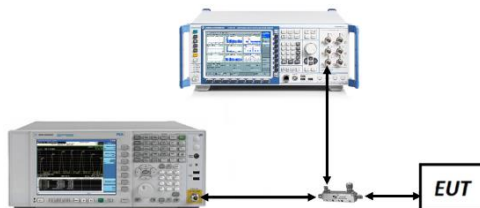


Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

1. Per 27.53(h) for AWS band operation, 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. Per 27.53(g) for operations in the 663 - 698 MHz and 698 – 746MHz bands, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
3. Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
4. For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is $65 + 10 \log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	Band Edge	-22.44	-13	-9.44
		Low	Extended	-15.61	-13	-2.61
		High	Band Edge	-24.10	-13	-11.10
		High	Extended	-19.26	-13	-6.26
LTE Band 71	20 MHz	Low	Band Edge	-30.06	-13	-17.06
		High	Band Edge	-26.78	-13	-13.78
	15 MHz	Low	Band Edge	-29.05	-13	-16.05
		High	Band Edge	-27.96	-13	-14.96
	10 MHz	Low	Band Edge	-28.26	-13	-15.26
		High	Band Edge	-26.88	-13	-13.88
	5 MHz	Low	Band Edge	-22.55	-13	-9.55
		High	Band Edge	-20.00	-13	-7.00
LTE Band 12	10 MHz	Low	Band Edge	-24.00	-13	-11.00
		High	Band Edge	-27.40	-13	-14.40
	5 MHz	Low	Band Edge	-19.35	-13	-6.35
		High	Band Edge	-21.44	-13	-8.44
	3 MHz	Low	Band Edge	-15.05	-13	-2.05
		High	Band Edge	-18.45	-13	-5.45
	1.4 MHz	Low	Band Edge	-21.89	-13	-8.89
		High	Band Edge	-24.26	-13	-11.26
LTE Band 13	10 MHz	Low	Band Edge	-28.90	-13	-15.90
		Low	Emission Mask	-64.85	-13	-51.85
		High	Band Edge	-27.20	-13	-14.20
		High	Emission Mask	-45.08	-13	-32.08
	5 MHz	Low	Band Edge	-22.23	-13	-9.23
		Low	Emission Mask	-61.96	-13	-48.96
		High	Band Edge	-21.91	-13	-8.91
		High	EmMask	-52.75	-13	-39.75

Table 7-14. Conducted Band Edge Results – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 166 of 276

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66/4	20MHz	Low	Band Edge	-28.04	-13	-15.04
		Low	Extended	-26.90	-13	-13.90
		High (B4)	Band Edge	-29.16	-13	-16.16
		High (B4)	Extended	-27.96	-13	-14.96
		High (B66)	Band Edge	-28.54	-13	-15.54
		High (B66)	Extended	-28.09	-13	-15.09
	15MHz	Low	Band Edge	-25.38	-13	-12.38
		Low	Extended	-26.27	-13	-13.27
		High (B4)	Band Edge	-26.86	-13	-13.86
		High (B4)	Extended	-26.76	-13	-13.76
		High (B66)	Band Edge	-27.56	-13	-14.56
		High (B66)	Extended	-27.25	-13	-14.25
	10MHz	Low	Band Edge	-26.55	-13	-13.55
		Low	Extended	-22.91	-13	-9.91
		High (B4)	Band Edge	-27.94	-13	-14.94
		High (B4)	Extended	-23.97	-13	-10.97
		High (B66)	Band Edge	-24.30	-13	-11.30
		High (B66)	Extended	-23.06	-13	-10.06
	5MHz	Low	Band Edge	-22.37	-13	-9.37
		Low	Extended	-26.61	-13	-13.61
		High (B4)	Band Edge	-21.93	-13	-8.93
		High (B4)	Extended	-27.86	-13	-14.86
		High (B66)	Band Edge	-24.00	-13	-11.00
		High (B66)	Extended	-27.47	-13	-14.47
	3MHz	Low	Band Edge	-19.94	-13	-6.94
		Low	Extended	-25.31	-13	-12.31
		High (B4)	Band Edge	-21.18	-13	-8.18
		High (B4)	Extended	-27.04	-13	-14.04
		High (B66)	Band Edge	-20.66	-13	-7.66
		High (B66)	Extended	-26.46	-13	-13.46
	1.4MHz	Low	Band Edge	-22.67	-13	-9.67
		Low	Extended	-29.59	-13	-16.59
		High (B4)	Band Edge	-22.74	-13	-9.74
		High (B4)	Extended	-31.23	-13	-18.23
		High (B66)	Band Edge	-21.35	-13	-8.35
		High (B66)	Extended	-30.42	-13	-17.42

Table 7-15. Conducted Band Edge Results – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 167 of 276

WCDMA AWS – ANT1



Plot 7-249. Lower Band Edge Plot (WCDMA AWS – Ch. 1312 – ANT1)



Plot 7-250. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312 – ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 168 of 276



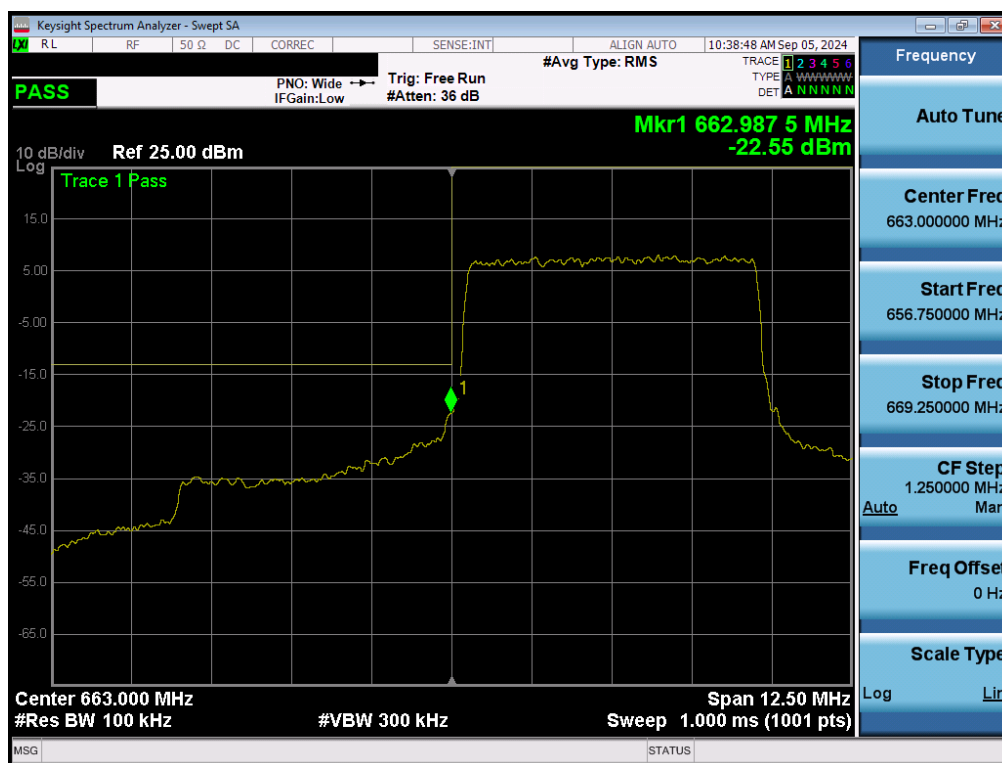
Plot 7-251. Upper Band Edge Plot (WCDMA AWS – Ch. 1513 – ANT1)



Plot 7-252. Upper Extended Band Edge Plot (WCDMA AWS – Ch. 1513– ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 169 of 276

LTE Band 71 – ANT1



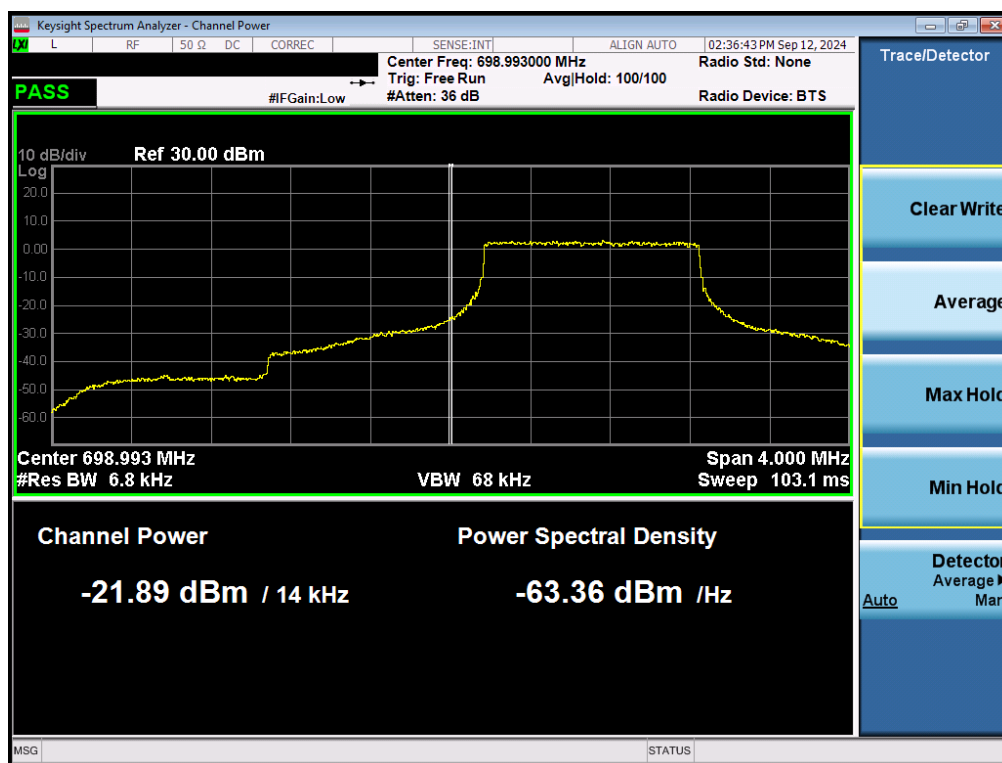
Plot 7-253. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB - ANT1)



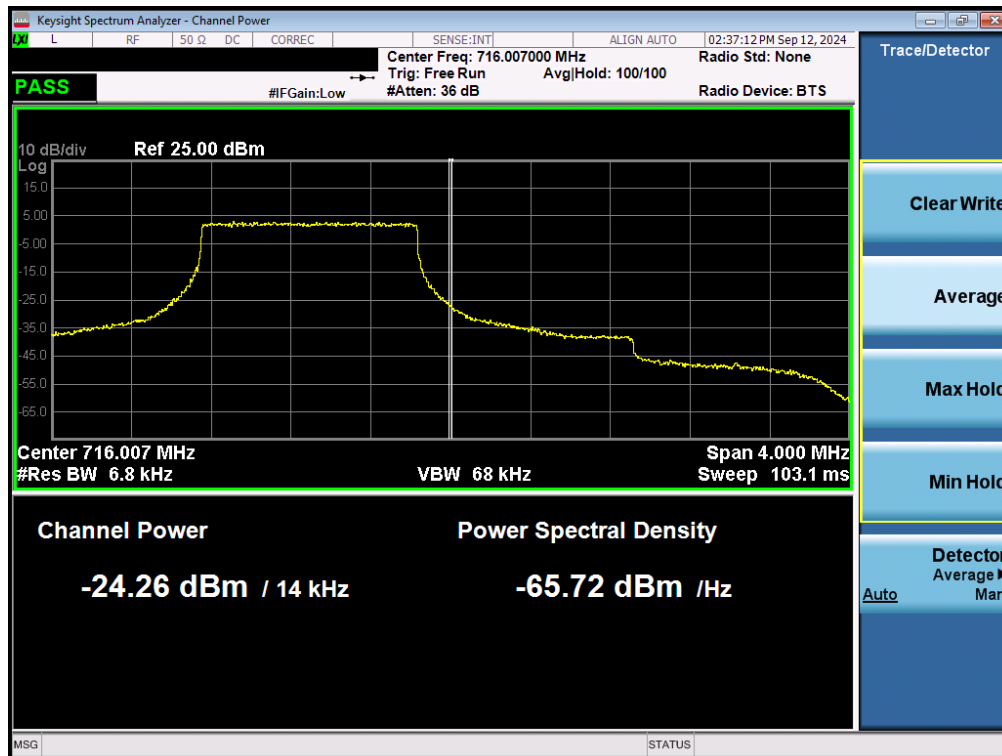
Plot 7-254. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 170 of 276

LTE Band 12 – ANT1



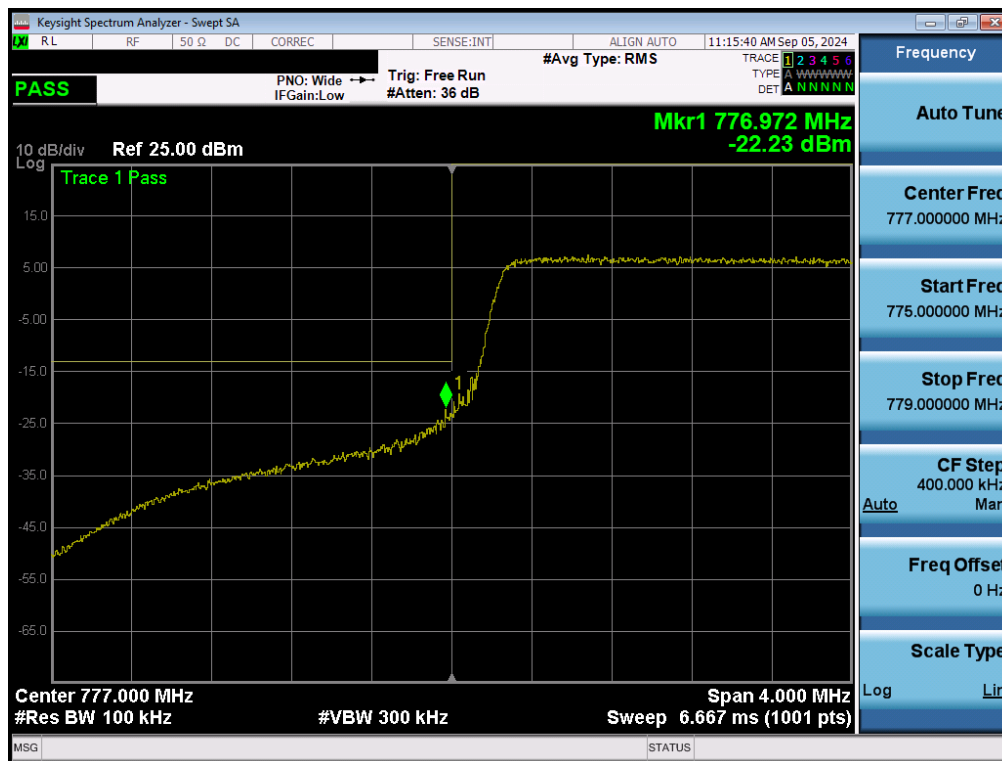
Plot 7-255. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - ANT1)



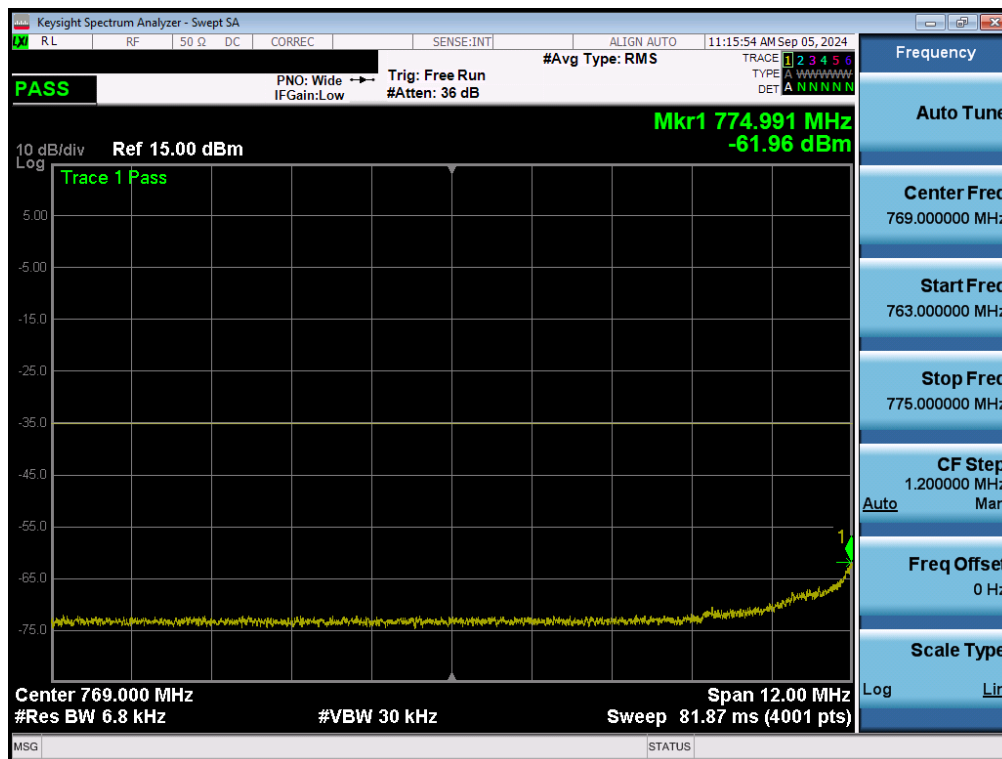
Plot 7-256. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 171 of 276

LTE Band 13 – ANT1

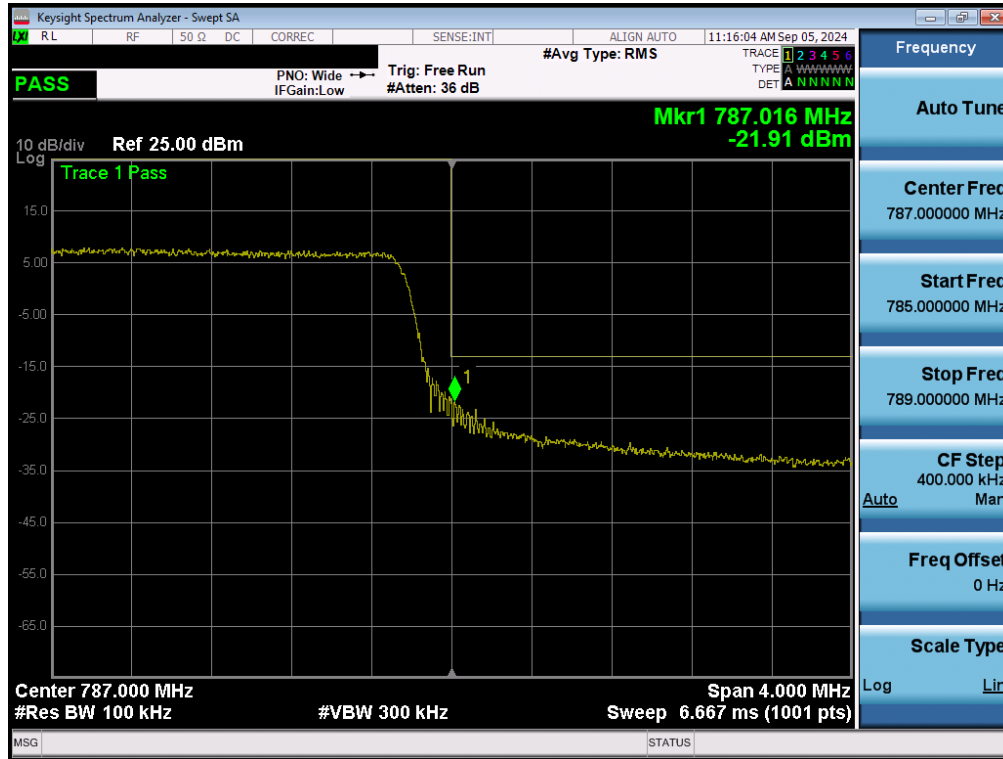


Plot 7-257. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)

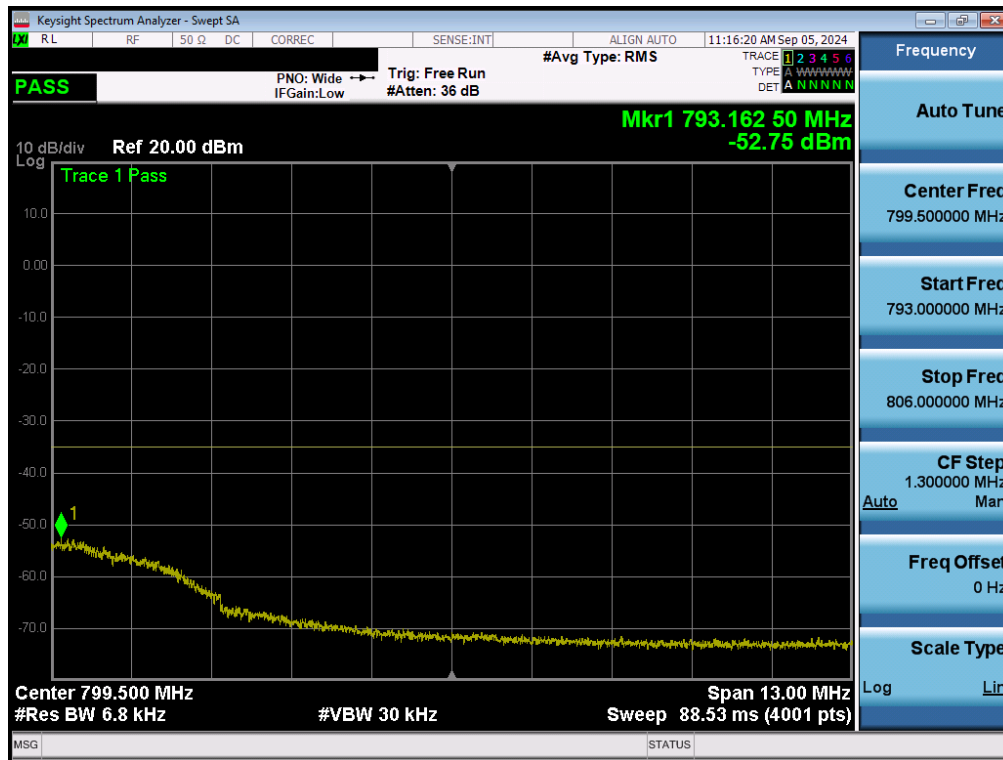


Plot 7-258. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 172 of 276



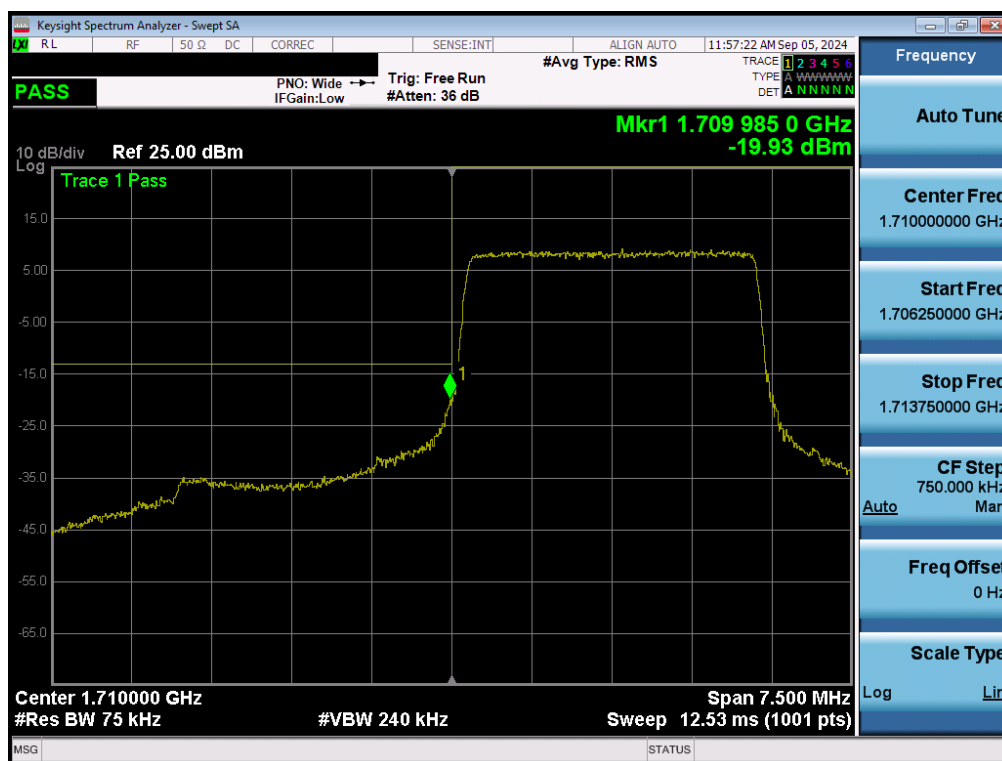
Plot 7-259. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)



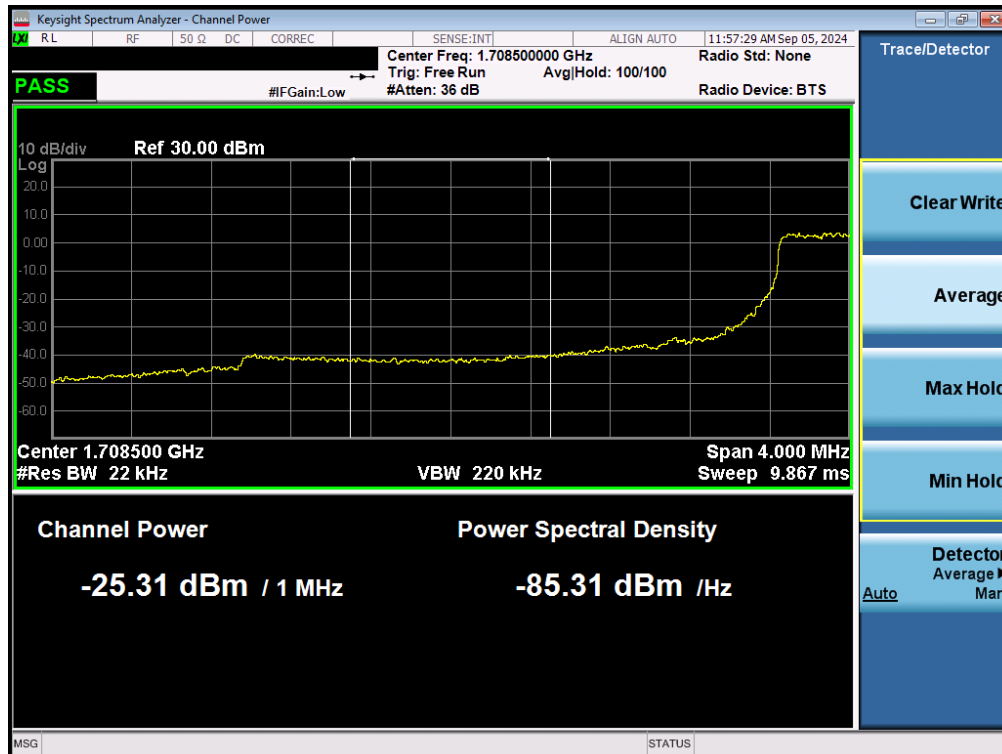
Plot 7-260. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 173 of 276

LTE Band 66/4 – ANT1



Plot 7-261. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - ANT1)

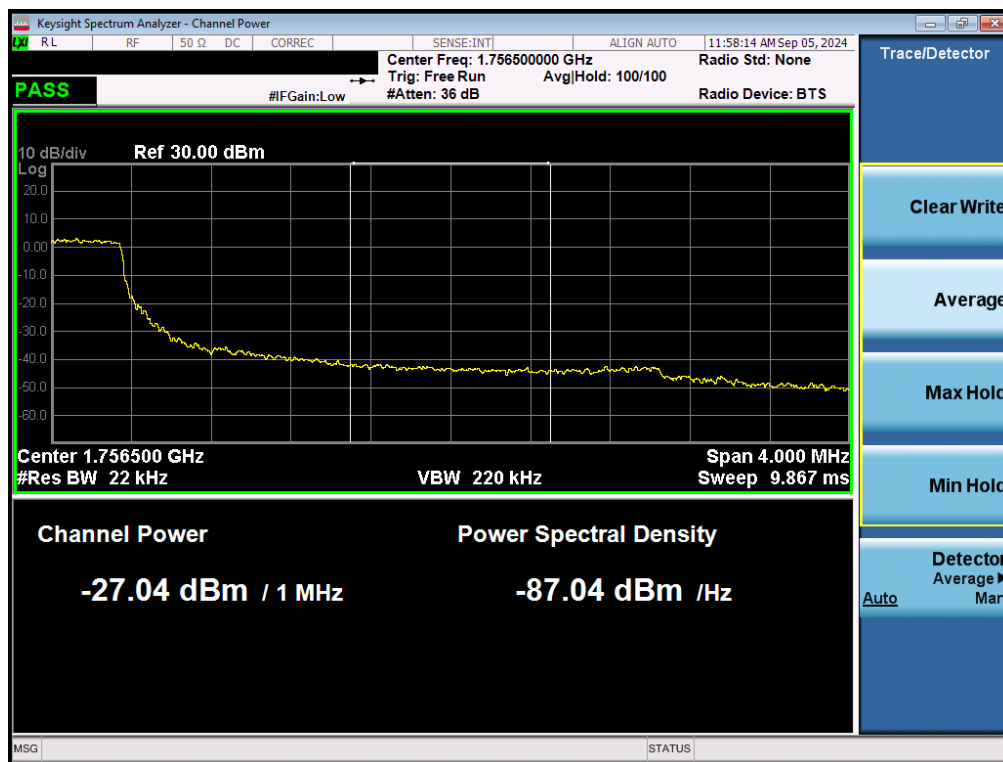


Plot 7-262. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 174 of 276



Plot 7-263. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - ANT1)

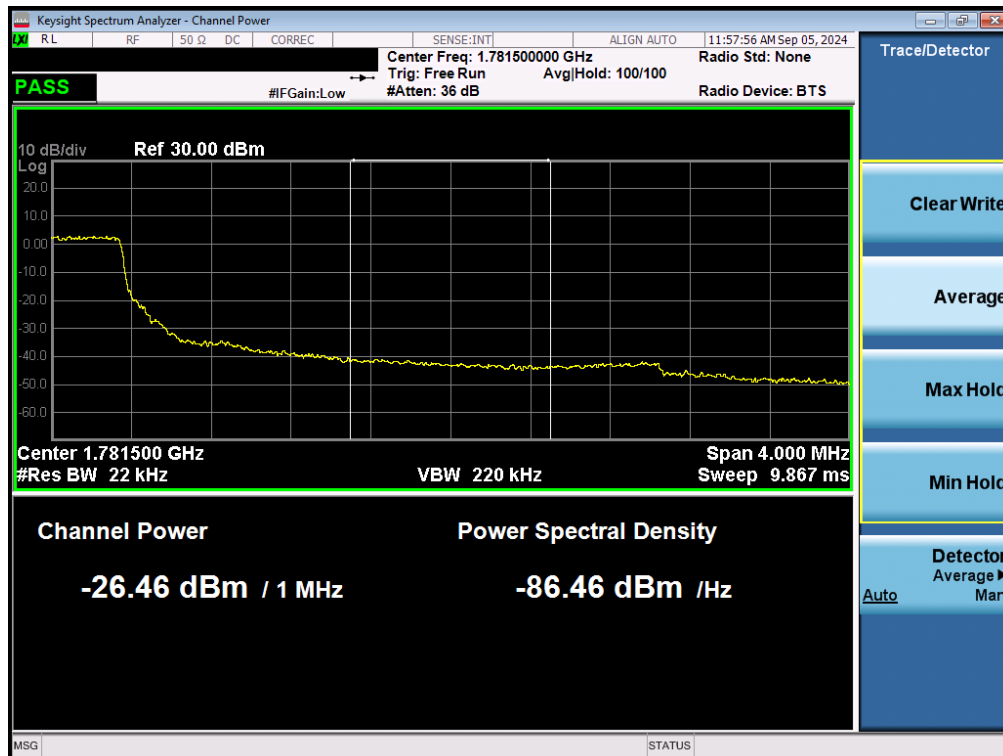


Plot 7-264. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 175 of 276



Plot 7-265. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - ANT1)



Plot 7-266. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 176 of 276

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n71	35 MHz	Low	Band Edge	-26.69	-13	-13.69
		Low	Extended	-26.69	-13	-13.69
		High	Band Edge	-26.14	-13	-13.14
		High	Extended	-26.14	-13	-13.14
	30 MHz	Low	Band Edge	-28.65	-13	-15.65
		Low	Extended	-28.65	-13	-15.65
		High	Band Edge	-27.40	-13	-14.40
		High	Extended	-27.40	-13	-14.40
	25 MHz	Low	Band Edge	-29.99	-13	-16.99
		Low	Extended	-29.99	-13	-16.99
		High	Band Edge	-27.22	-13	-14.22
		High	Extended	-27.22	-13	-14.22
	20 MHz	Low	Band Edge	-27.94	-13	-14.94
		Low	Extended	-27.94	-13	-14.94
		High	Band Edge	-27.77	-13	-14.77
		High	Extended	-27.77	-13	-14.77
	15 MHz	Low	Band Edge	-27.87	-13	-14.87
		Low	Extended	-27.87	-13	-14.87
		High	Band Edge	-28.48	-13	-15.48
		High	Extended	-28.48	-13	-15.48
	10 MHz	Low	Band Edge	-27.94	-13	-14.94
		Low	Extended	-27.94	-13	-14.94
		High	Band Edge	-27.66	-13	-14.66
		High	Extended	-27.66	-13	-14.66
	5 MHz	Low	Band Edge	-23.33	-13	-10.33
		Low	Extended	-23.33	-13	-10.33
		High	Band Edge	-18.20	-13	-5.20
		High	Extended	-18.20	-13	-5.20
NR Band n12	15 MHz	Low	Band Edge	-24.21	-13	-11.21
		Low	Extended	-24.21	-13	-11.21
		High	Band Edge	-27.81	-13	-14.81
		High	Extended	-27.81	-13	-14.81
	10 MHz	Low	Band Edge	-22.89	-13	-9.89
		Low	Extended	-22.89	-13	-9.89
		High	Band Edge	-24.72	-13	-11.72
		High	Extended	-24.72	-13	-11.72
	5 MHz	Low	Band Edge	-20.60	-13	-7.60
		Low	Extended	-20.60	-13	-7.60
		High	Band Edge	-22.40	-13	-9.40
		High	Extended	-22.40	-13	-9.40
NR Band n70	15 MHz	Low	Band Edge	-26.86	-13	-13.86
		Low	Extended	-22.18	-13	-9.18
		High	Band Edge	-27.92	-13	-14.92
		High	Extended	-24.07	-13	-11.07
	10 MHz	Low	Band Edge	-25.74	-13	-12.74
		Low	Extended	-18.22	-13	-5.22
		High	Band Edge	-27.69	-13	-14.69
		High	Extended	-20.47	-13	-7.47
	5 MHz	Low	Band Edge	-23.86	-13	-10.86
		Low	Extended	-25.48	-13	-12.48
		High	Band Edge	-21.67	-13	-8.67
		High	Extended	-27.55	-13	-14.55

Table 7-16. Conducted Band Edge Results – Ant1

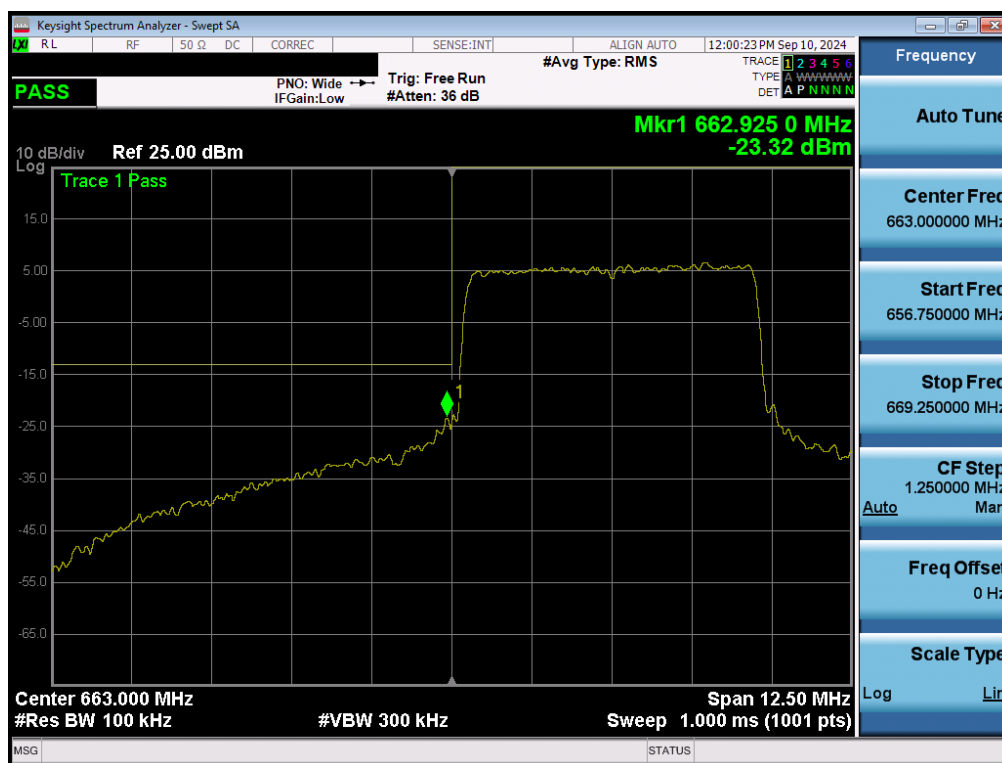
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 177 of 276

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n66	45 MHz	Low	Band Edge	-32.56	-13	-19.56
		Low	Extended	-32.56	-13	-19.56
		High	Band Edge	-31.41	-13	-18.41
		High	Extended	-31.11	-13	-18.11
	40 MHz	Low	Band Edge	-28.02	-13	-15.02
		Low	Extended	-31.91	-13	-18.91
		High	Band Edge	-23.81	-13	-10.81
		High	Extended	-30.42	-13	-17.42
	35 MHz	Low	Band Edge	-31.10	-13	-18.10
		Low	Extended	-31.65	-13	-18.65
		High	Band Edge	-30.83	-13	-17.83
		High	Extended	-30.97	-13	-17.97
	30 MHz	Low	Band Edge	-27.40	-13	-14.40
		Low	Extended	-30.31	-13	-17.31
		High	Band Edge	-28.70	-13	-15.70
		High	Extended	-29.52	-13	-16.52
	25 MHz	Low	Band Edge	-32.61	-13	-19.61
		Low	Extended	-32.61	-13	-19.61
		High	Band Edge	-32.07	-13	-19.07
		High	Extended	-32.07	-13	-19.07
	20 MHz	Low	Band Edge	-29.63	-13	-16.63
		Low	Extended	-26.21	-13	-13.21
		High	Band Edge	-33.20	-13	-20.20
		High	Extended	-28.35	-13	-15.35
	15 MHz	Low	Band Edge	-31.24	-13	-18.24
		Low	Extended	-22.67	-13	-9.67
		High	Band Edge	-31.29	-13	-18.29
		High	Extended	-25.77	-13	-12.77
	10 MHz	Low	Band Edge	-26.49	-13	-13.49
		Low	Extended	-18.23	-13	-5.23
		High	Band Edge	-31.10	-13	-18.10
		High	Extended	-21.76	-13	-8.76
	5 MHz	Low	Band Edge	-26.09	-13	-13.09
		Low	Extended	-30.00	-13	-17.00
		High	Band Edge	-25.01	-13	-12.01
		High	Extended	-29.15	-13	-16.15

Table 7-17. Conducted Band Edge Results – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 178 of 276

NR Band n71 – ANT1



Plot 7-267. Lower Band Edge Plot (NR Band n71 – 5.0MHz - Full RB - ANT1)



Plot 7-268. Upper Band Edge Plot (NR Band n71 – 5.0MHz - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 179 of 276

NR Band n12 – ANT1



Plot 7-269. Lower Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - ANT1)



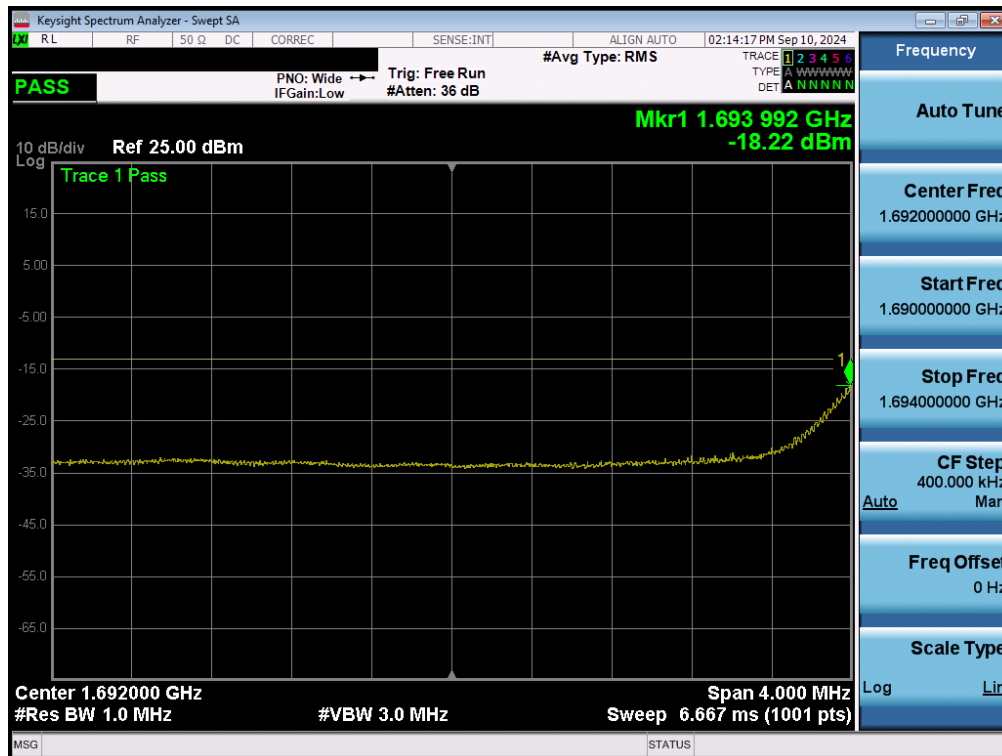
Plot 7-270. Upper Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 180 of 276

NR Band n70 – ANT1



Plot 7-271. Lower Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT1)

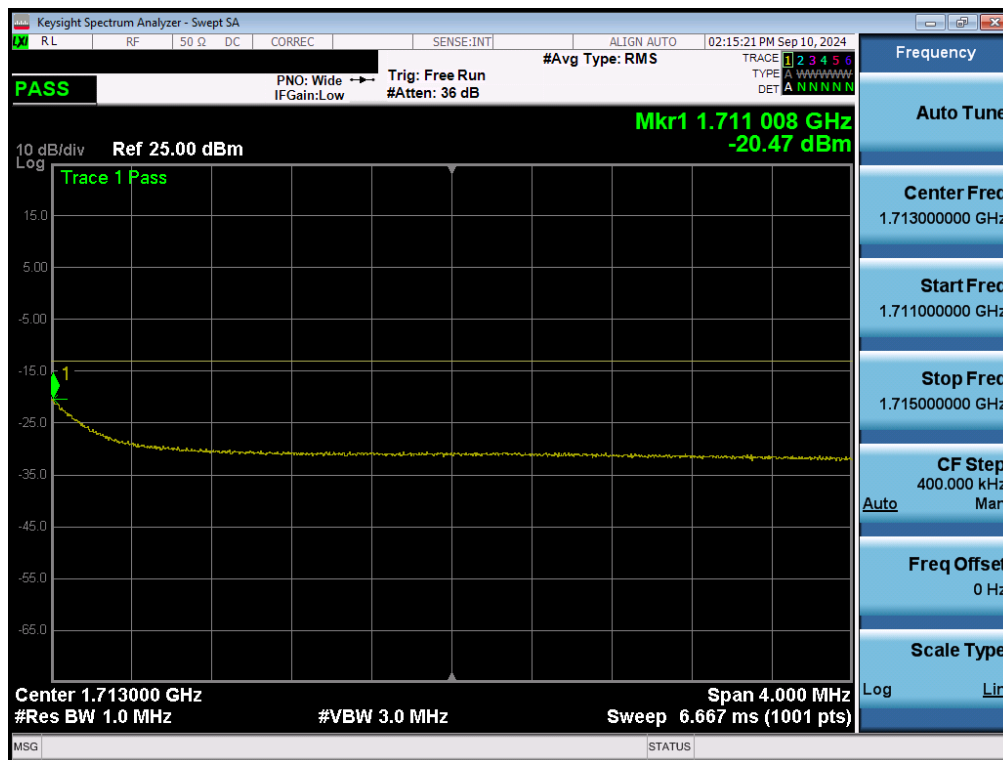


Plot 7-272. Lower Extended Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 181 of 276



Plot 7-273. Upper Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT1)



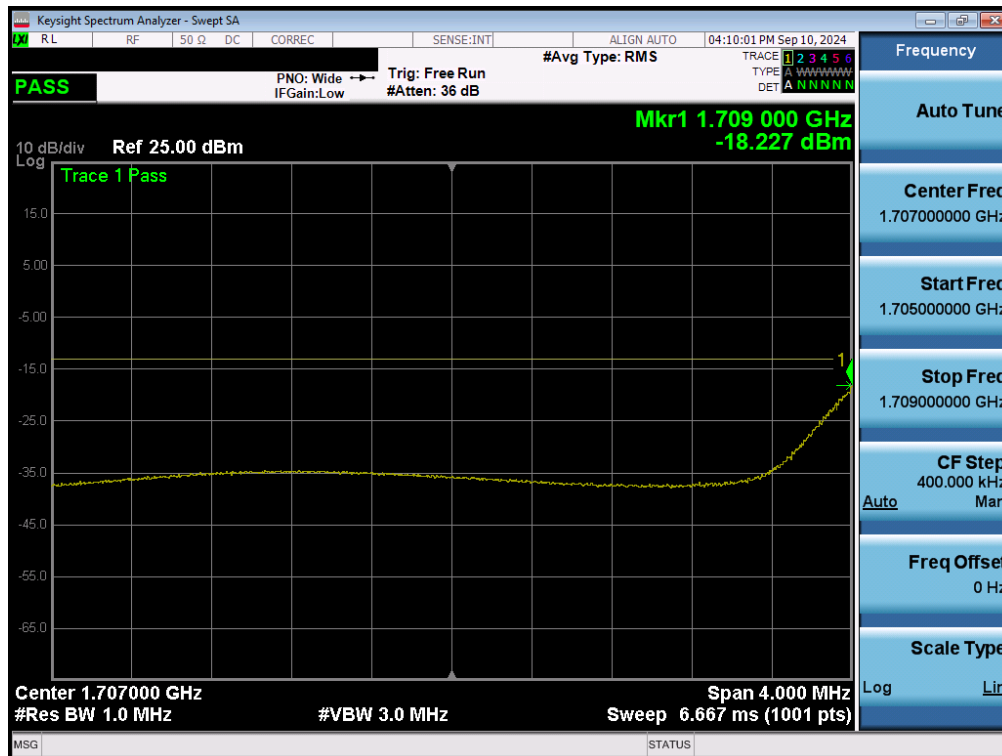
Plot 7-274. Upper Extended Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 182 of 276

NR Band n66 – ANT1



Plot 7-275. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)



Plot 7-276. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 183 of 276



Plot 7-277. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)



Plot 7-278. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 184 of 276

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 71	20 MHz	Low	Band Edge	-28.75	-13	-15.75
		High	Band Edge	-27.57	-13	-14.57
	15 MHz	Low	Band Edge	-28.97	-13	-15.97
		High	Band Edge	-29.30	-13	-16.30
	10 MHz	Low	Band Edge	-29.23	-13	-16.23
		High	Band Edge	-27.66	-13	-14.66
	5 MHz	Low	Band Edge	-22.47	-13	-9.47
		High	Band Edge	-22.05	-13	-9.05
LTE Band 12	10 MHz	Low	Band Edge	-24.35	-13	-11.35
		High	Band Edge	-26.87	-13	-13.87
	5 MHz	Low	Band Edge	-18.52	-13	-5.52
		High	Band Edge	-21.76	-13	-8.76
	3 MHz	Low	Band Edge	-14.48	-13	-1.48
		High	Band Edge	-17.15	-13	-4.15
	1.4 MHz	Low	Band Edge	-20.71	-13	-7.71
		High	Band Edge	-24.72	-13	-11.72
LTE Band 13	10 MHz	Low	Band Edge	-28.46	-13	-15.46
		Low	Emission Mask	-63.48	-13	-50.48
		High	Band Edge	-27.70	-13	-14.70
		High	Emission Mask	-45.25	-13	-32.25
	5 MHz	Low	Band Edge	-22.95	-13	-9.95
		Low	Emission Mask	-61.69	-13	-48.69
		High	Band Edge	-22.35	-13	-9.35
		High	EmMask	-53.32	-13	-40.32

Table 7-18. Conducted Band Edge Results – Ant2

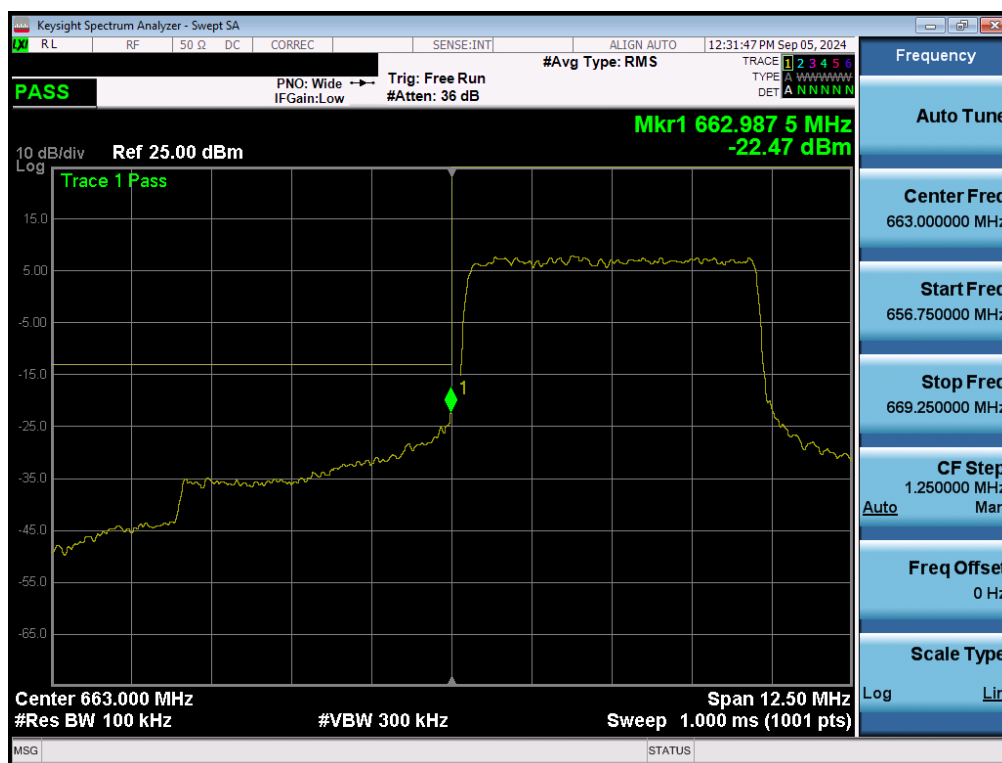
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 185 of 276

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66/4	20MHz	Low	Band Edge	-24.09	-13	-11.09
		Low	Extended	-21.49	-13	-8.49
		High (B4)	Band Edge	-23.96	-13	-10.96
		High (B4)	Extended	-21.53	-13	-8.53
		High (B66)	Band Edge	-24.31	-13	-11.31
		High (B66)	Extended	-23.12	-13	-10.12
	15MHz	Low	Band Edge	-22.96	-13	-9.96
		Low	Extended	-19.79	-13	-6.79
		High (B4)	Band Edge	-23.22	-13	-10.22
		High (B4)	Extended	-20.03	-13	-7.03
		High (B66)	Band Edge	-23.16	-13	-10.16
		High (B66)	Extended	-21.29	-13	-8.29
	10MHz	Low	Band Edge	-20.13	-13	-7.13
		Low	Extended	-16.97	-13	-3.97
		High (B4)	Band Edge	-22.45	-13	-9.45
		High (B4)	Extended	-18.43	-13	-5.43
		High (B66)	Band Edge	-22.75	-13	-9.75
		High (B66)	Extended	-18.27	-13	-5.27
	5MHz	Low	Band Edge	-18.57	-13	-5.57
		Low	Extended	-17.72	-13	-4.72
		High (B4)	Band Edge	-21.54	-13	-8.54
		High (B4)	Extended	-20.62	-13	-7.62
		High (B66)	Band Edge	-20.47	-13	-7.47
		High (B66)	Extended	-19.55	-13	-6.55
	3MHz	Low	Band Edge	-18.44	-13	-5.44
		Low	Extended	-17.30	-13	-4.30
		High (B4)	Band Edge	-20.13	-13	-7.13
		High (B4)	Extended	-20.93	-13	-7.93
		High (B66)	Band Edge	-18.81	-13	-5.81
		High (B66)	Extended	-19.25	-13	-6.25
	1.4MHz	Low	Band Edge	-18.49	-13	-5.49
		Low	Extended	-31.06	-13	-18.06
		High (B4)	Band Edge	-20.41	-13	-7.41
		High (B4)	Extended	-32.84	-13	-19.84
		High (B66)	Band Edge	-20.48	-13	-7.48
		High (B66)	Extended	-32.65	-13	-19.65

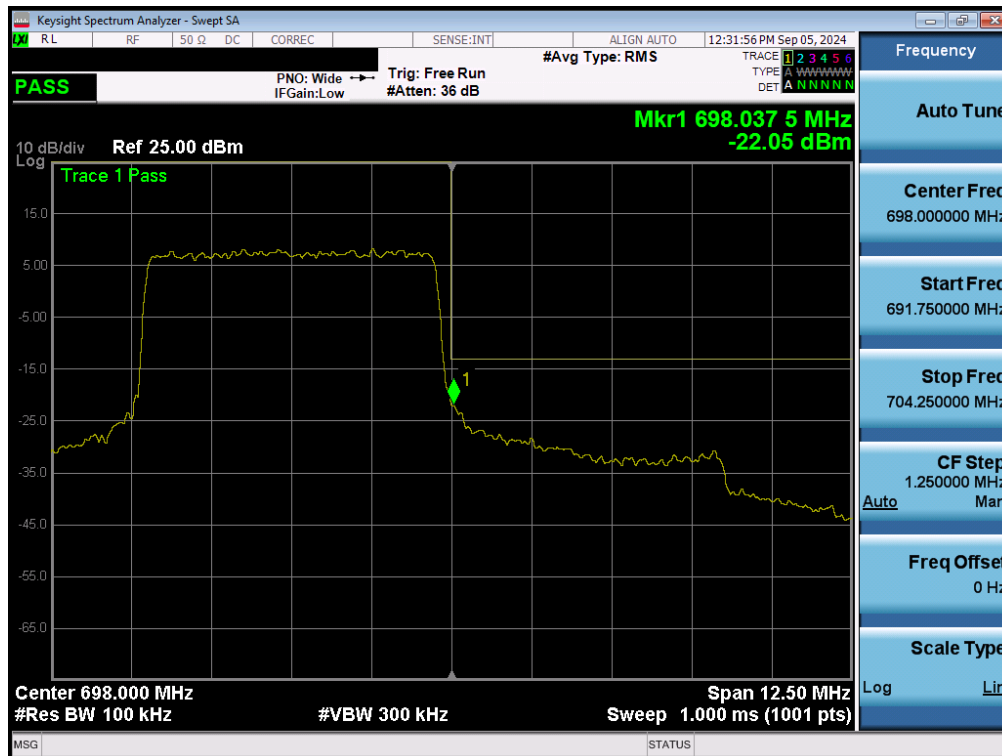
Table 7-19. Conducted Band Edge Results – Ant2

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 186 of 276

LTE Band 71 – ANT2



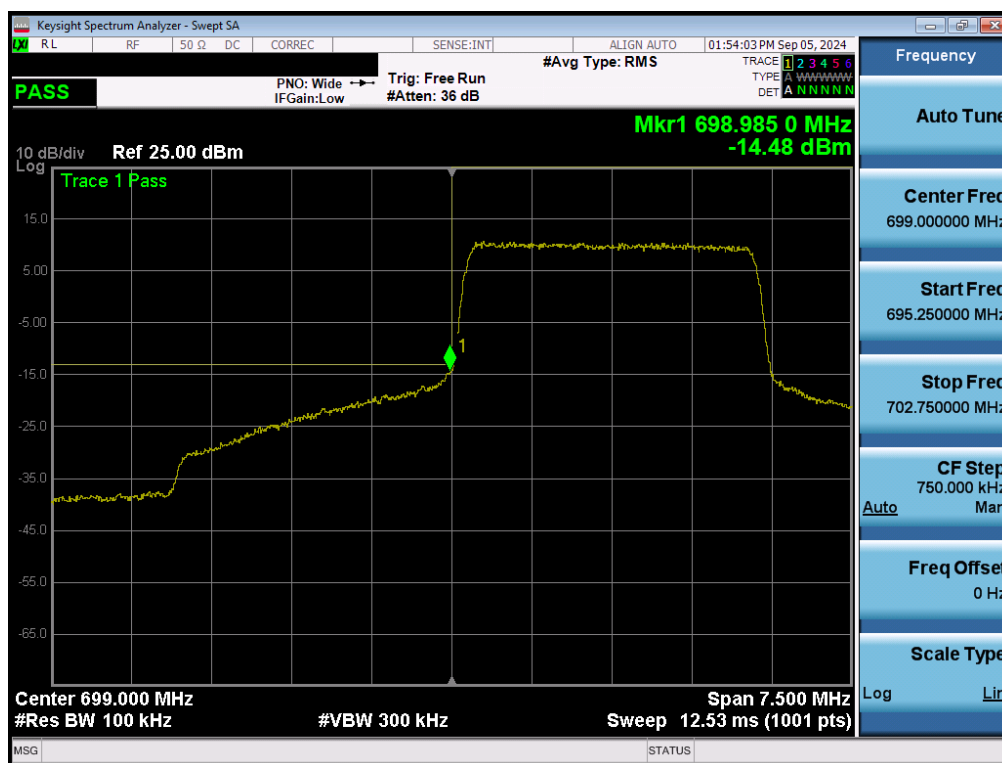
Plot 7-279. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB - ANT2)



Plot 7-280. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 187 of 276

LTE Band 12 – ANT2



Plot 7-281. Lower Band Edge Plot (LTE Band 12 – 3MHz QPSK – Full RB - ANT2)

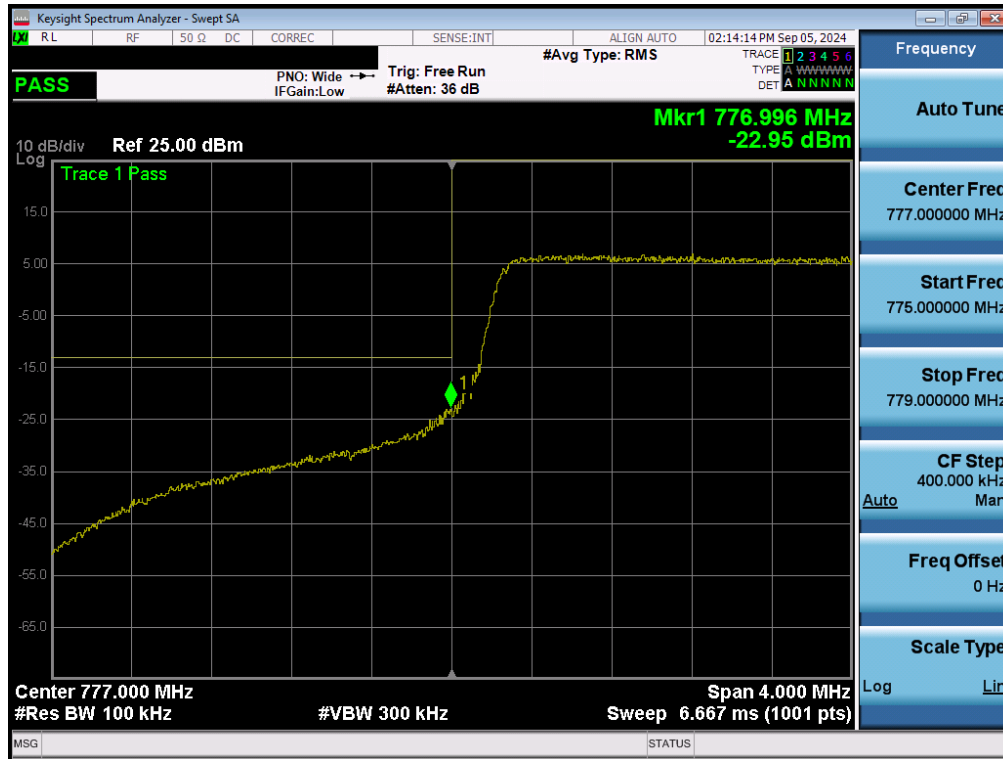


Plot 7-282. Upper Band Edge Plot (LTE Band 12 – 3MHz QPSK – Full RB - ANT2)

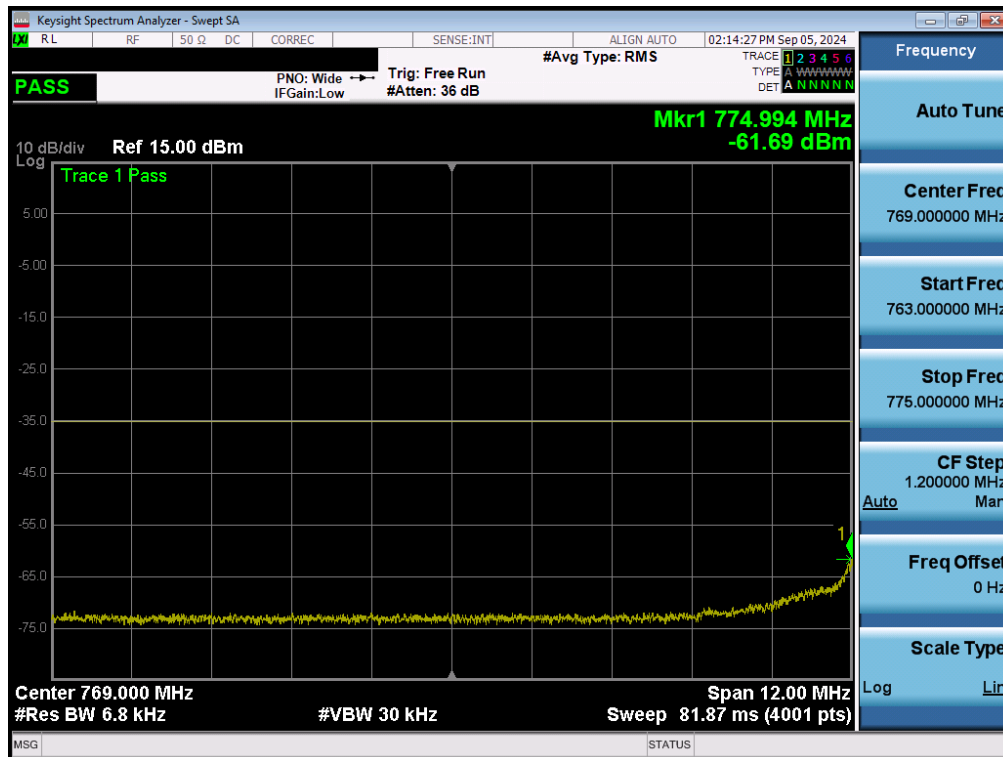
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 188 of 276



LTE Band 13 – ANT2

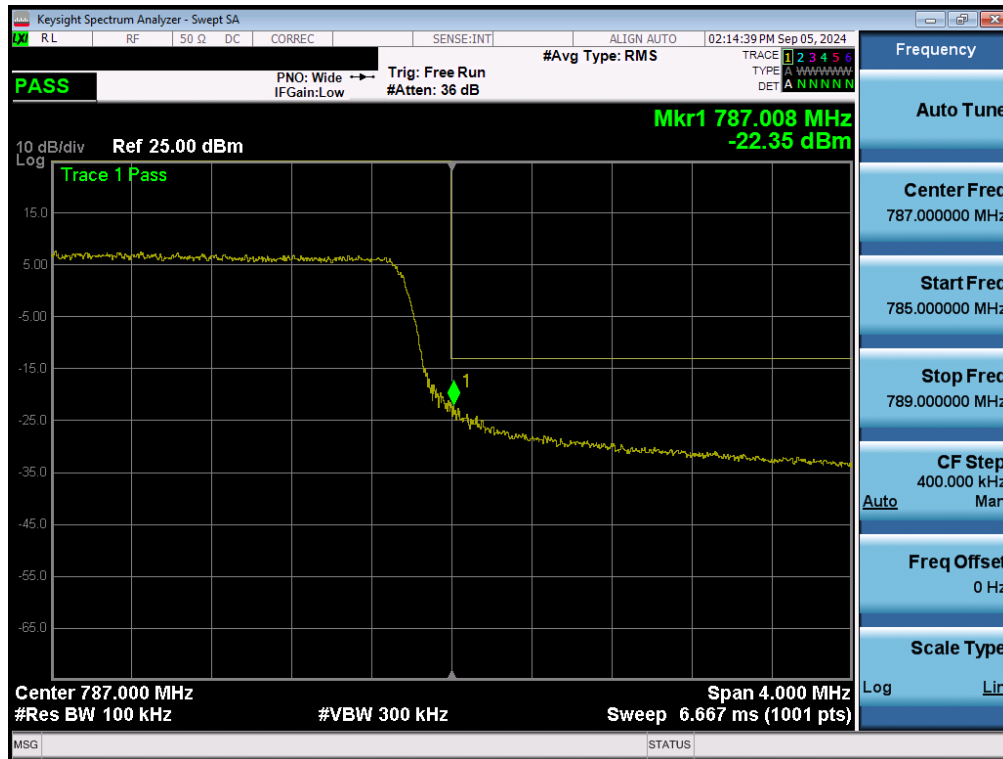


Plot 7-283. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT2)



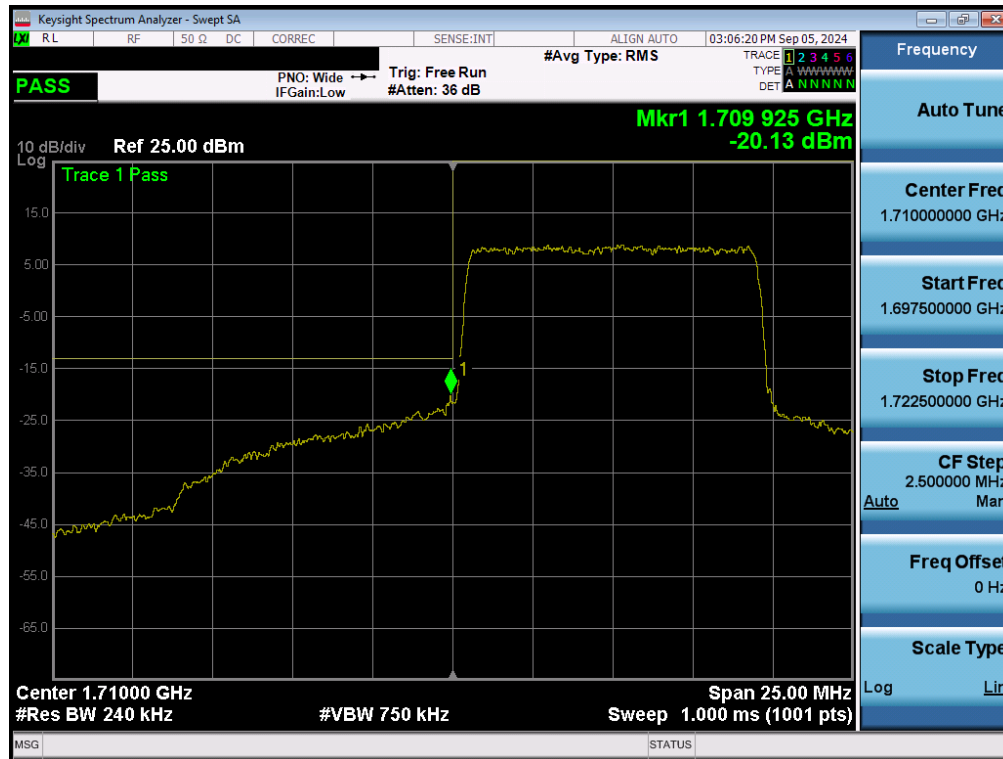
Plot 7-284. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 189 of 276

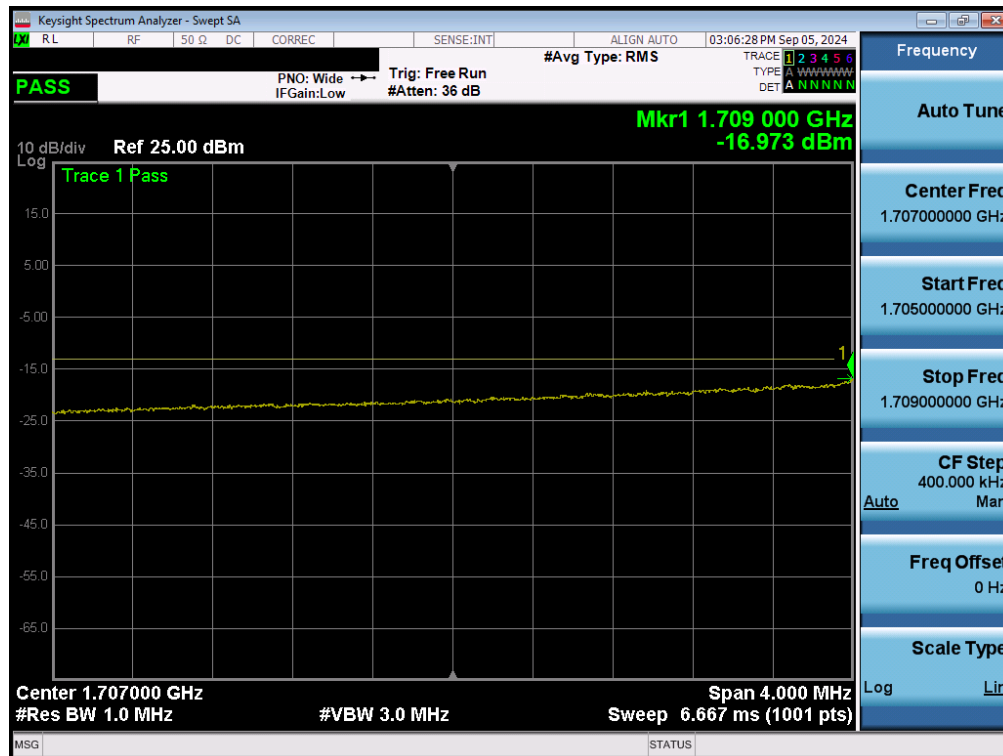


FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 190 of 276

LTE Band 66/4 – ANT2



Plot 7-287. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB - ANT2)

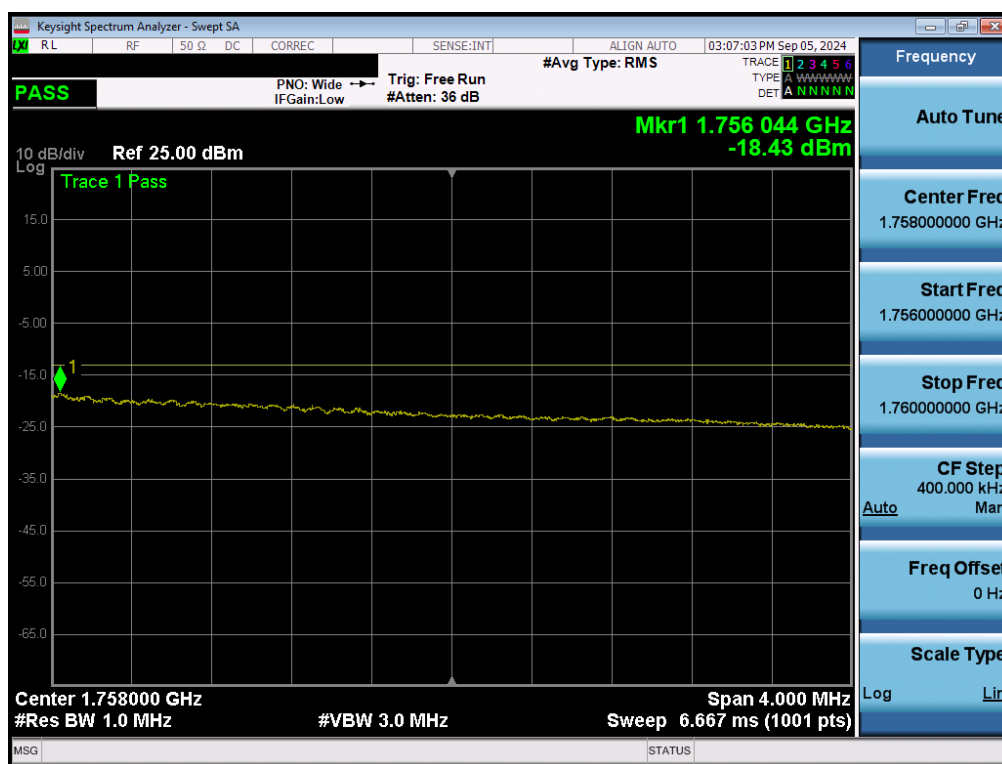


Plot 7-288. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 191 of 276



Plot 7-289. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - ANT2)

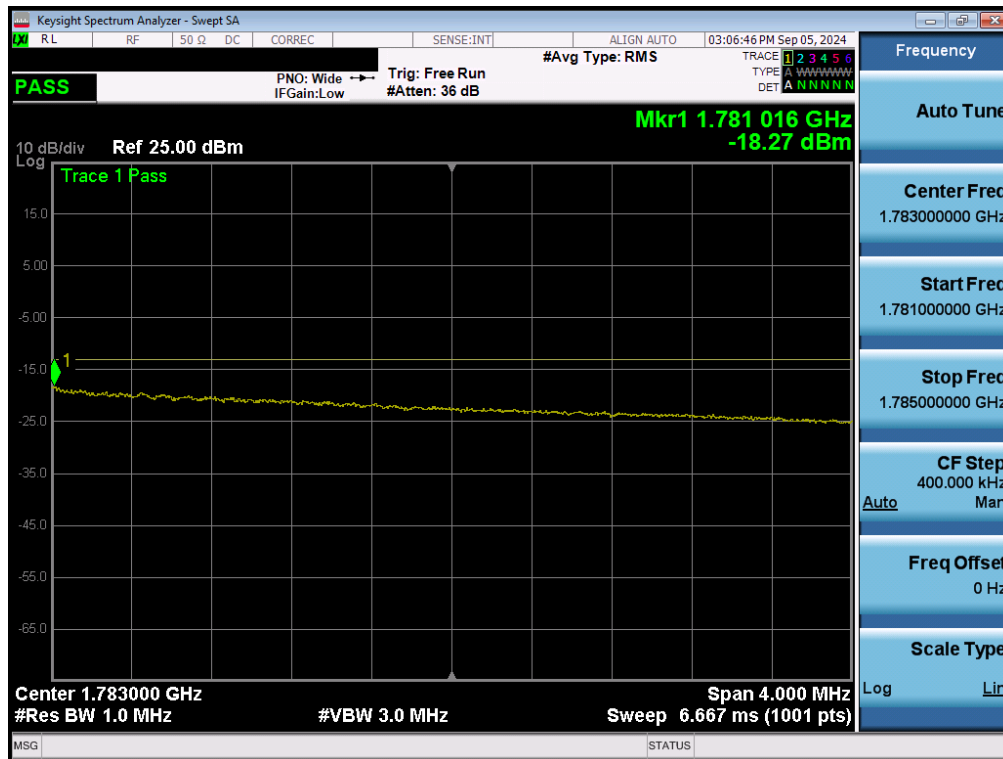


Plot 7-290. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 192 of 276



Plot 7-291. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB - ANT2)



Plot 7-292. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 193 of 276

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n71	35 MHz	Low	Band Edge	-24.79	-13	-11.79
		Low	Extended	-24.79	-13	-11.79
		High	Band Edge	-22.99	-13	-9.99
		High	Extended	-22.99	-13	-9.99
	30 MHz	Low	Band Edge	-30.00	-13	-17.00
		Low	Extended	-30.00	-13	-17.00
		High	Band Edge	-27.31	-13	-14.31
		High	Extended	-27.31	-13	-14.31
	25 MHz	Low	Band Edge	-29.96	-13	-16.96
		Low	Extended	-29.96	-13	-16.96
		High	Band Edge	-25.16	-13	-12.16
		High	Extended	-25.16	-13	-12.16
	20 MHz	Low	Band Edge	-28.64	-13	-15.64
		Low	Extended	-28.64	-13	-15.64
		High	Band Edge	-27.31	-13	-14.31
		High	Extended	-27.31	-13	-14.31
	15 MHz	Low	Band Edge	-27.20	-13	-14.20
		Low	Extended	-27.20	-13	-14.20
		High	Band Edge	-29.95	-13	-16.95
		High	Extended	-29.95	-13	-16.95
	10 MHz	Low	Band Edge	-26.39	-13	-13.39
		Low	Extended	-26.39	-13	-13.39
		High	Band Edge	-28.09	-13	-15.09
		High	Extended	-28.09	-13	-15.09
	5 MHz	Low	Band Edge	-21.85	-13	-8.85
		Low	Extended	-21.85	-13	-8.85
		High	Band Edge	-18.81	-13	-5.81
		High	Extended	-18.81	-13	-5.81
NR Band n12	15 MHz	Low	Band Edge	-22.68	-13	-9.68
		Low	Extended	-22.68	-13	-9.68
		High	Band Edge	-27.32	-13	-14.32
		High	Extended	-27.32	-13	-14.32
	10 MHz	Low	Band Edge	-21.34	-13	-8.34
		Low	Extended	-21.34	-13	-8.34
		High	Band Edge	-25.59	-13	-12.59
		High	Extended	-25.59	-13	-12.59
	5 MHz	Low	Band Edge	-20.64	-13	-7.64
		Low	Extended	-20.64	-13	-7.64
		High	Band Edge	-21.94	-13	-8.94
		High	Extended	-21.94	-13	-8.94

Table 7-20. Conducted Band Edge Results – Ant2

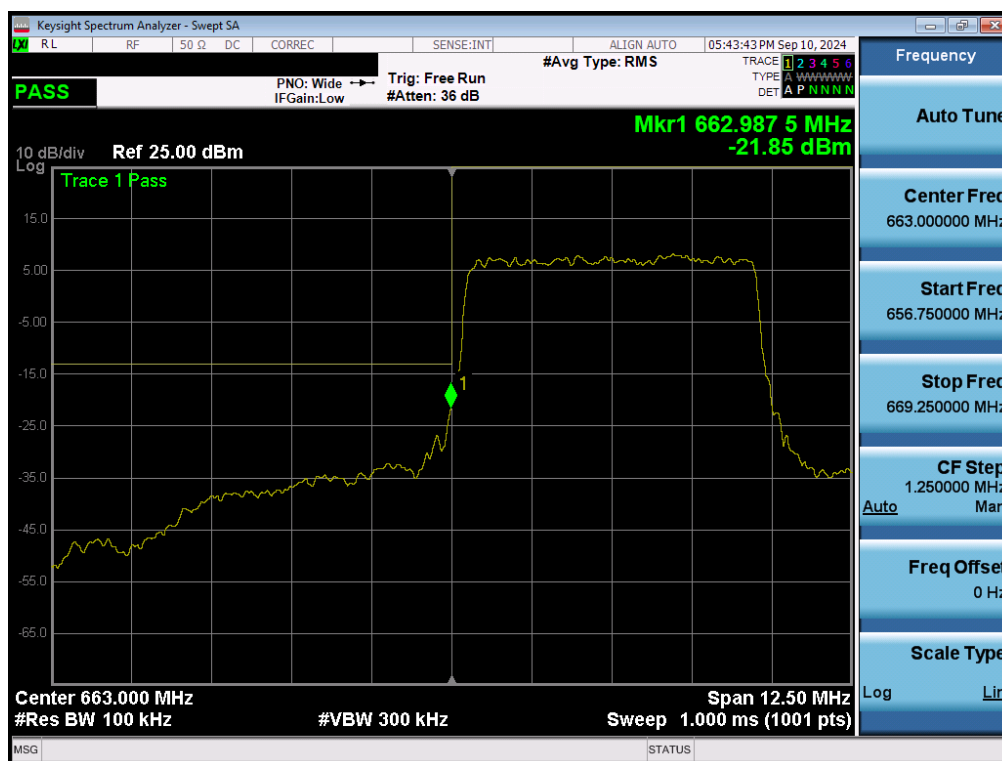
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 194 of 276

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n70	15 MHz	Low	Band Edge	-28.96	-13	-15.96
		Low	Extended	-21.39	-13	-8.39
		High	Band Edge	-26.68	-13	-13.68
		High	Extended	-22.84	-13	-9.84
	10 MHz	Low	Band Edge	-25.06	-13	-12.06
		Low	Extended	-17.97	-13	-4.97
		High	Band Edge	-26.69	-13	-13.69
		High	Extended	-19.92	-13	-6.92
	5 MHz	Low	Band Edge	-24.95	-13	-11.95
		Low	Extended	-23.21	-13	-10.21
		High	Band Edge	-24.62	-13	-11.62
		High	Extended	-28.91	-13	-15.91
NR Band n66	45 MHz	Low	Band Edge	-27.47	-13	-14.47
		Low	Extended	-26.28	-13	-13.28
		High	Band Edge	-28.46	-13	-15.46
		High	Extended	-27.24	-13	-14.24
	40 MHz	Low	Band Edge	-24.86	-13	-11.86
		Low	Extended	-24.58	-13	-11.58
		High	Band Edge	-23.20	-13	-10.20
		High	Extended	-26.08	-13	-13.08
	30 MHz	Low	Band Edge	-27.56	-13	-14.56
		Low	Extended	-26.60	-13	-13.60
		High	Band Edge	-30.85	-13	-17.85
		High	Extended	-27.92	-13	-14.92
	30 MHz	Low	Band Edge	-26.38	-13	-13.38
		Low	Extended	-26.10	-13	-13.10
		High	Band Edge	-27.36	-13	-14.36
		High	Extended	-26.89	-13	-13.89
	25 MHz	Low	Band Edge	-28.51	-13	-15.51
		Low	Extended	-28.51	-13	-15.51
		High	Band Edge	-30.01	-13	-17.01
		High	Extended	-30.01	-13	-17.01
	20 MHz	Low	Band Edge	-29.29	-13	-16.29
		Low	Extended	-23.57	-13	-10.57
		High	Band Edge	-30.71	-13	-17.71
		High	Extended	-25.51	-13	-12.51
	15 MHz	Low	Band Edge	-28.85	-13	-15.85
		Low	Extended	-20.72	-13	-7.72
		High	Band Edge	-30.86	-13	-17.86
		High	Extended	-23.18	-13	-10.18
	10 MHz	Low	Band Edge	-24.39	-13	-11.39
		Low	Extended	-17.37	-13	-4.37
		High	Band Edge	-26.24	-13	-13.24
		High	Extended	-19.51	-13	-6.51
	5 MHz	Low	Band Edge	-23.41	-13	-10.41
		Low	Extended	-21.53	-13	-8.53
		High	Band Edge	-22.43	-13	-9.43
		High	Extended	-21.74	-13	-8.74

Table 7-21. Conducted Band Edge Results – Ant2

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 195 of 276

NR Band n71 – ANT2



Plot 7-293. Lower Band Edge Plot (NR Band n71 – 5.0MHz - Full RB - ANT2)



Plot 7-294. Upper Band Edge Plot (NR Band n71 – 5.0MHz - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 196 of 276

NR Band n12 – ANT2



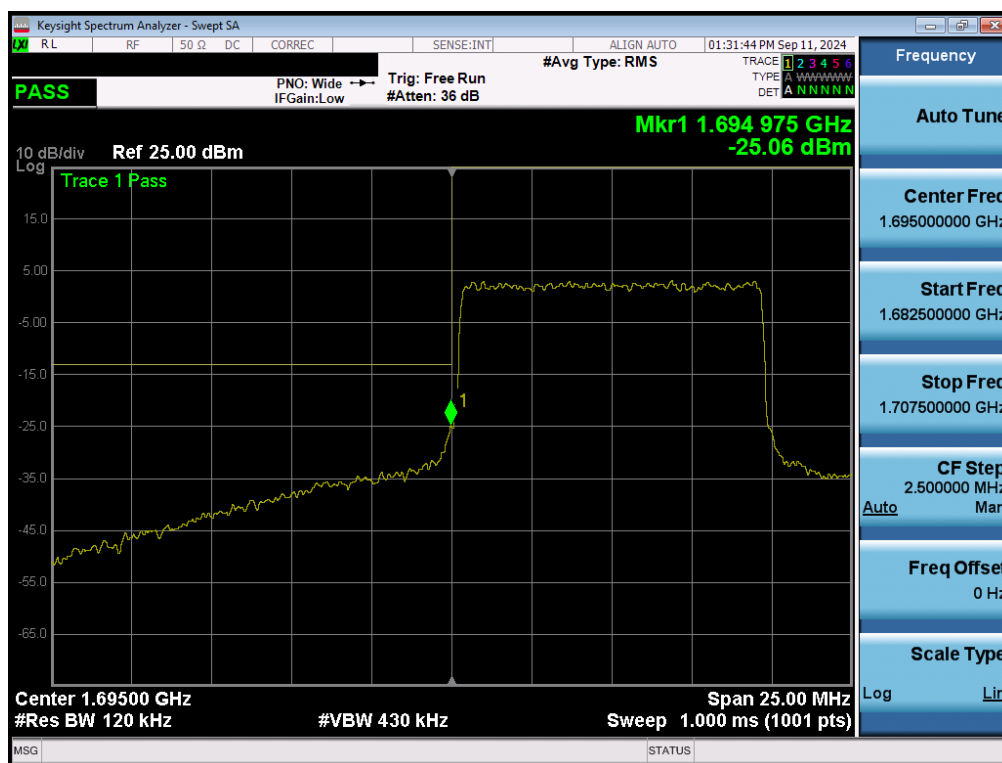
Plot 7-295. Lower Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - ANT2)



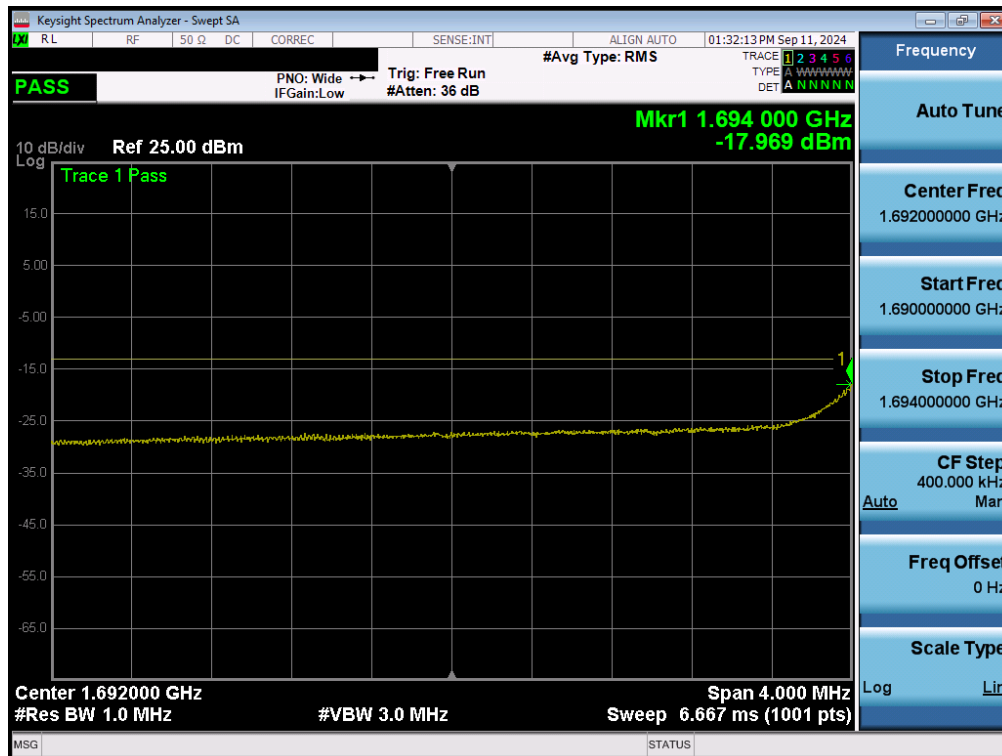
Plot 7-296. Upper Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70 – ANT2



Plot 7-297. Lower Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT2)



Plot 7-298. Lower Extended Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 198 of 276



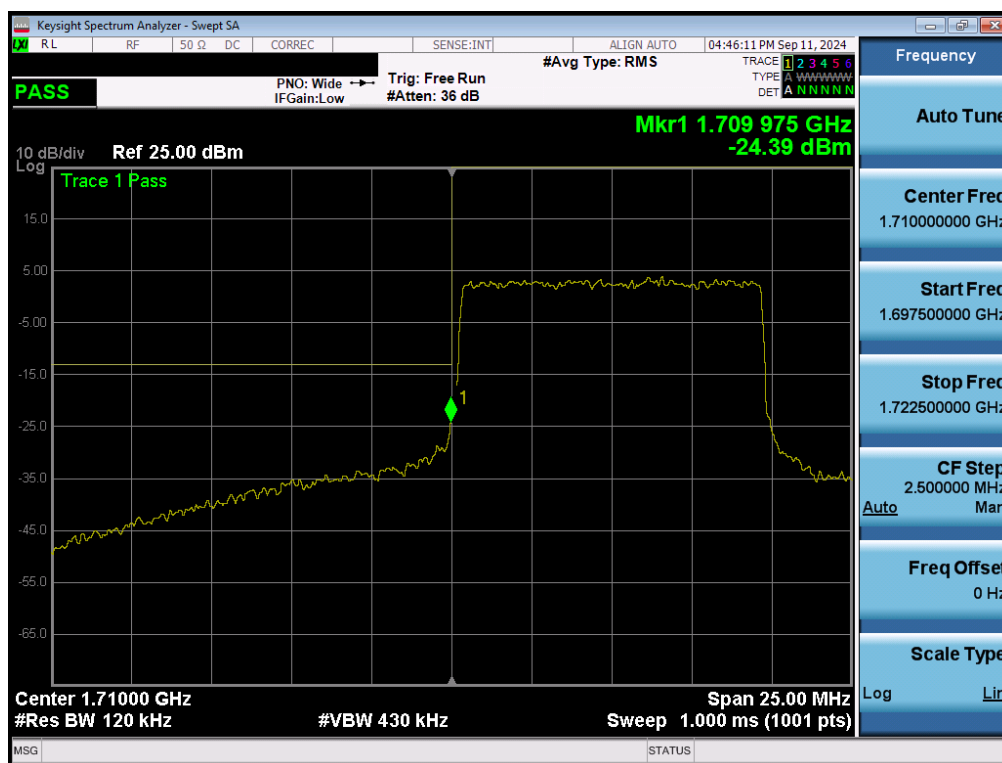
Plot 7-299. Upper Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT2)



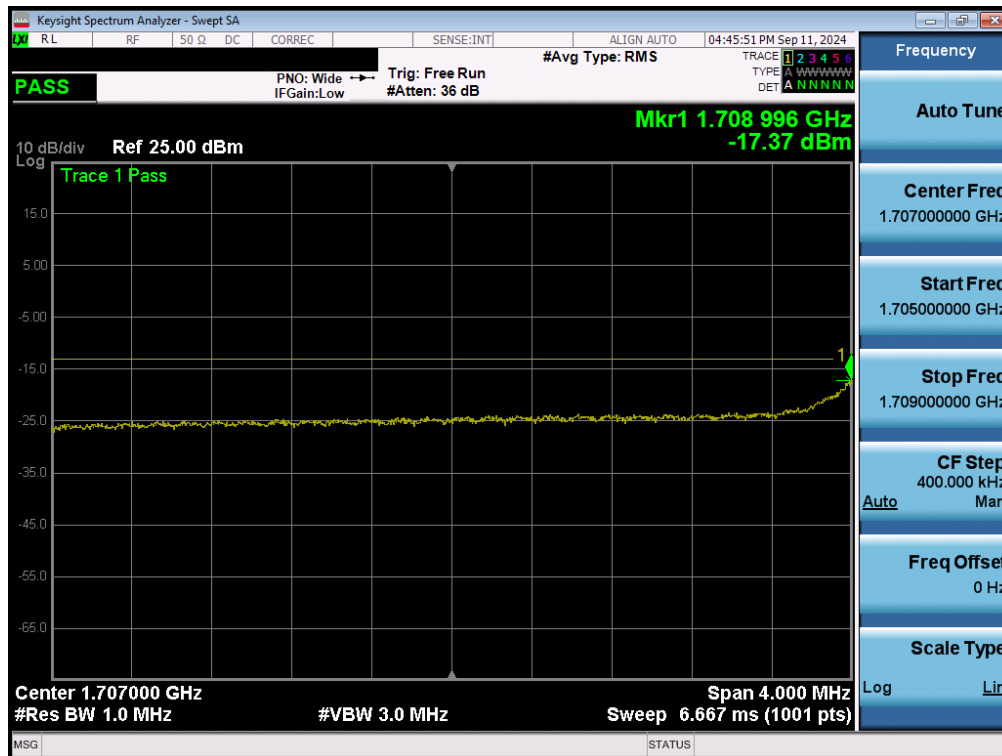
Plot 7-300. Upper Extended Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 199 of 276

NR Band n66 – ANT2



Plot 7-301. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT2)

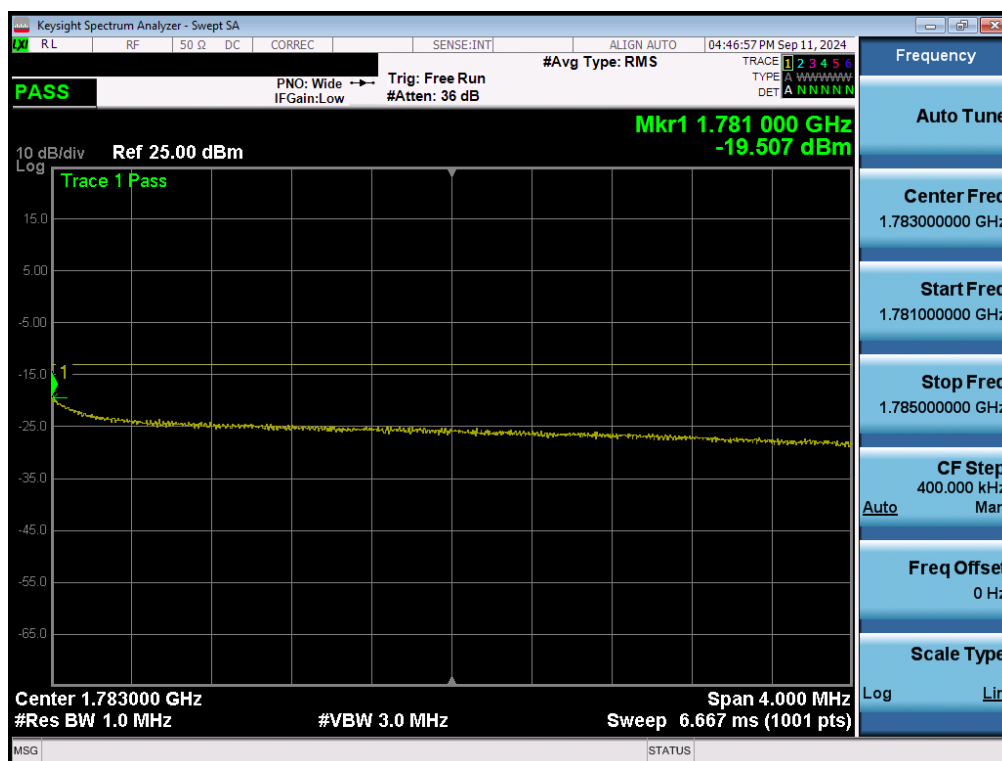


Plot 7-302. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 200 of 276



Plot 7-303. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT2)



Plot 7-304. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 201 of 276

7.6 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

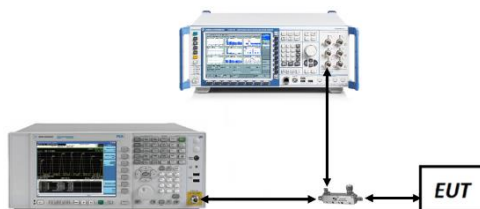


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 202 of 276

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
WCDMA-AWS	5MHz	GMSK	23.02	3.22	13	-9.78
LTE-B66-4	20MHz	QPSK	22.86	4.78	13	-8.22
		256QAM	18.87	6.85	13	-6.15
	15MHz	QPSK	22.84	4.78	13	-8.22
		256QAM	18.84	6.86	13	-6.14
	10MHz	QPSK	22.82	4.86	13	-8.14
		256QAM	18.83	6.88	13	-6.12
	5MHz	QPSK	22.83	4.84	13	-8.16
		256QAM	18.82	6.90	13	-6.10
	3MHz	QPSK	22.92	4.74	13	-8.26
		256QAM	18.94	6.96	13	-6.04
	1.4MHz	QPSK	22.85	4.84	13	-8.16
		256QAM	17.50	8.21	13	-4.79

Table 7-22. Peak-Average Ratio Results – Ant1

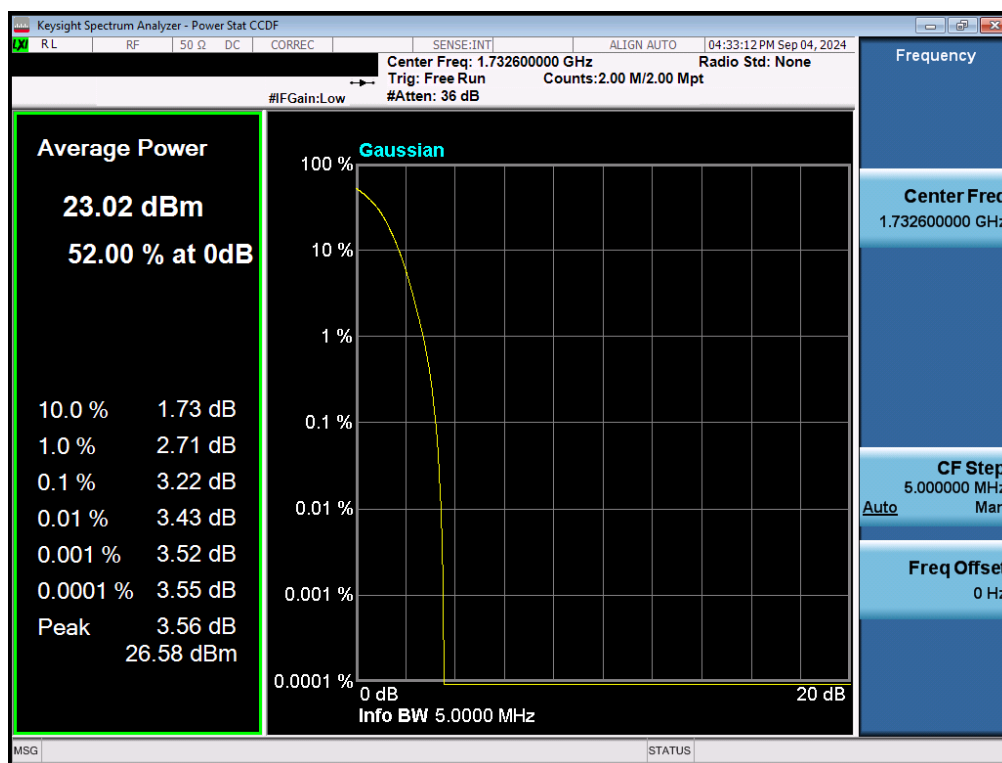
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 203 of 276

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
NR-n70	15MHz	$\pi/2$ BPSK	23.18	3.93	13	-9.07
		QPSK	20.54	6.79	13	-6.21
		256QAM	17.12	8.45	13	-4.55
	10MHz	$\pi/2$ BPSK	23.15	4.21	13	-8.79
		QPSK	20.64	6.62	13	-6.38
		256QAM	17.14	8.73	13	-4.28
	5MHz	$\pi/2$ BPSK	23.16	4.17	13	-8.83
		QPSK	20.69	7.19	13	-5.81
		256QAM	17.12	8.56	13	-4.44
NR-n66	45MHz	$\pi/2$ BPSK	22.87	4.66	13	-8.34
		QPSK	20.34	7.23	13	-5.77
		256QAM	16.86	8.50	13	-4.50
	40MHz	$\pi/2$ BPSK	22.91	4.44	13	-8.56
		QPSK	20.45	7.21	13	-5.79
		256QAM	16.79	8.65	13	-4.35
	35MHz	$\pi/2$ BPSK	22.82	4.06	13	-8.94
		QPSK	20.32	6.96	13	-6.04
		256QAM	16.85	8.56	13	-4.44
	30MHz	$\pi/2$ BPSK	22.87	3.92	13	-9.08
		QPSK	20.26	6.84	13	-6.16
		256QAM	16.88	8.52	13	-4.48
	25MHz	$\pi/2$ BPSK	23.02	4.45	13	-8.55
		QPSK	20.43	7.35	13	-5.65
		256QAM	16.99	8.85	13	-4.15
	20MHz	$\pi/2$ BPSK	23.16	4.14	13	-8.86
		QPSK	20.49	7.32	13	-5.68
		256QAM	16.97	8.66	13	-4.34
	15MHz	$\pi/2$ BPSK	22.91	4.40	13	-8.60
		QPSK	20.34	7.45	13	-5.55
		256QAM	16.90	8.55	13	-4.45
	10MHz	$\pi/2$ BPSK	23.01	4.28	13	-8.72
		QPSK	20.56	7.13	13	-5.87
		256QAM	16.98	8.82	13	-4.18
	5MHz	$\pi/2$ BPSK	22.95	4.31	13	-8.69
		QPSK	20.48	7.49	13	-5.51
		256QAM	16.90	8.63	13	-4.37

Table 7-23. Peak-Average Ratio Results – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 204 of 276

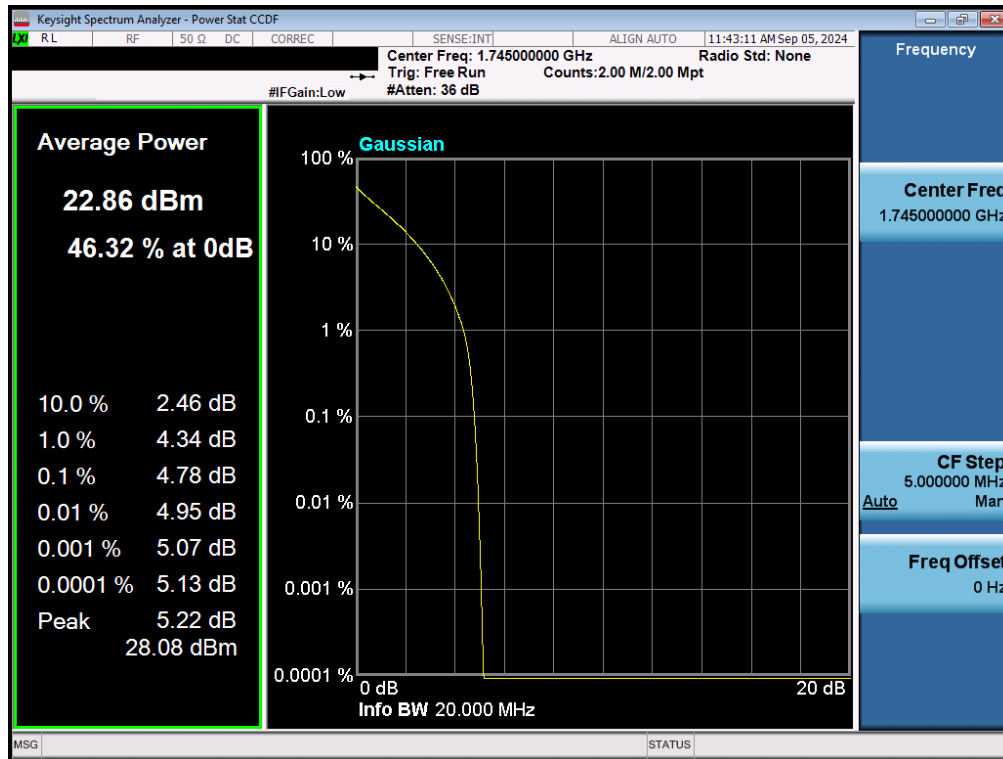
WCDMA AWS – ANT1



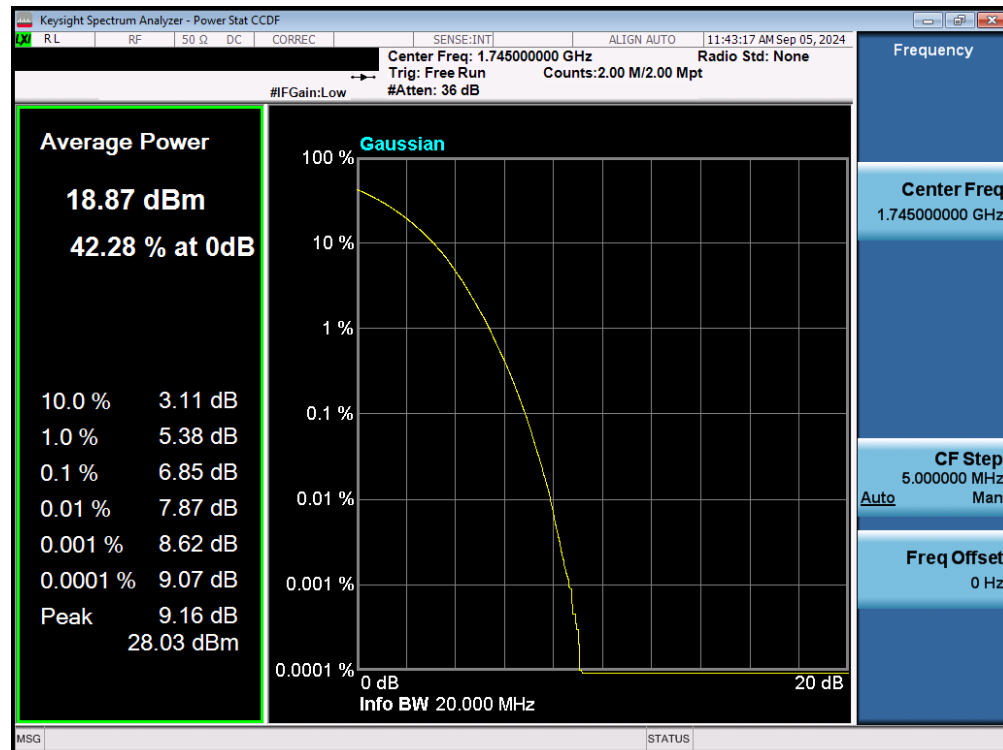
Plot 7-305. PAR Plot (WCDMA, Ch. 1413 – ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT1



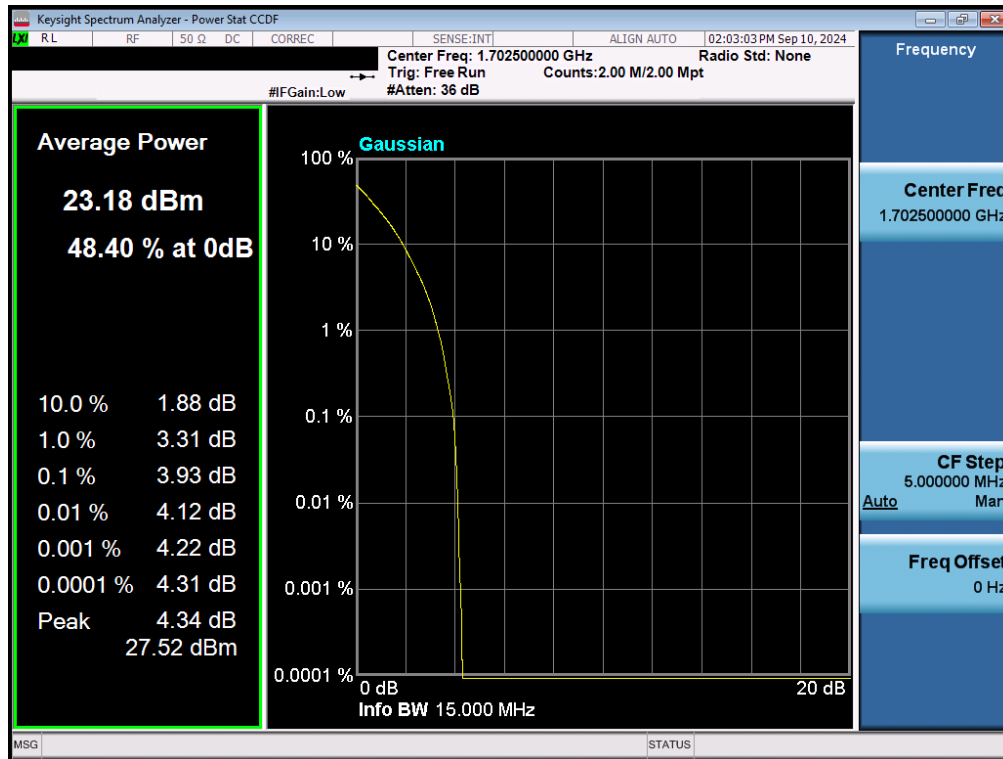
Plot 7-306. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT1)



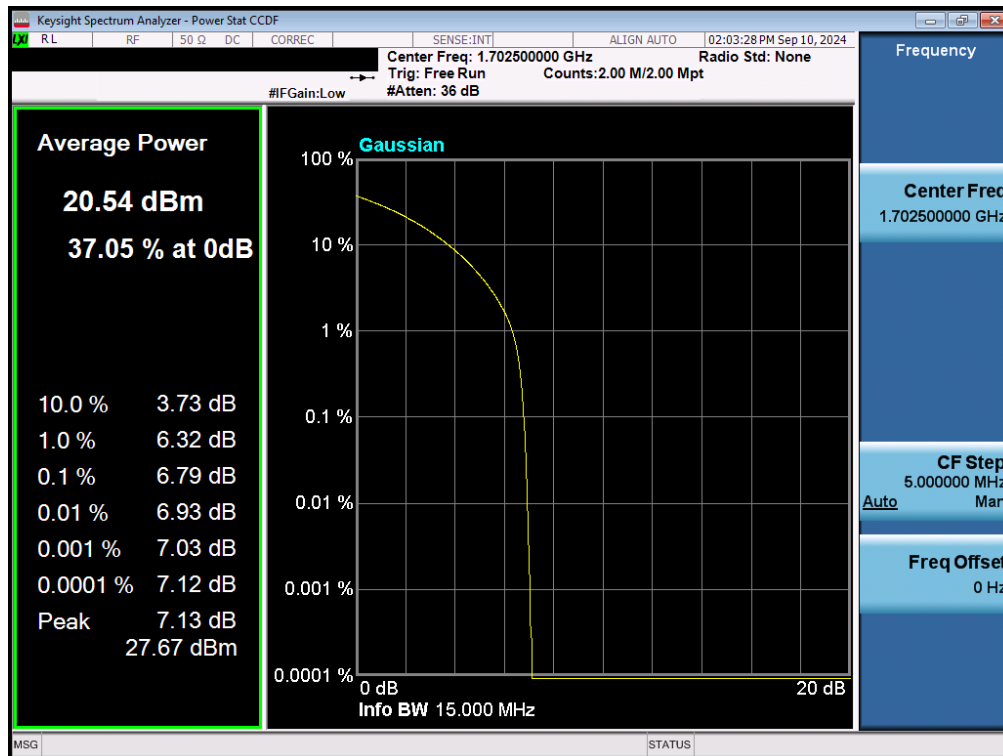
Plot 7-307. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70 – ANT1

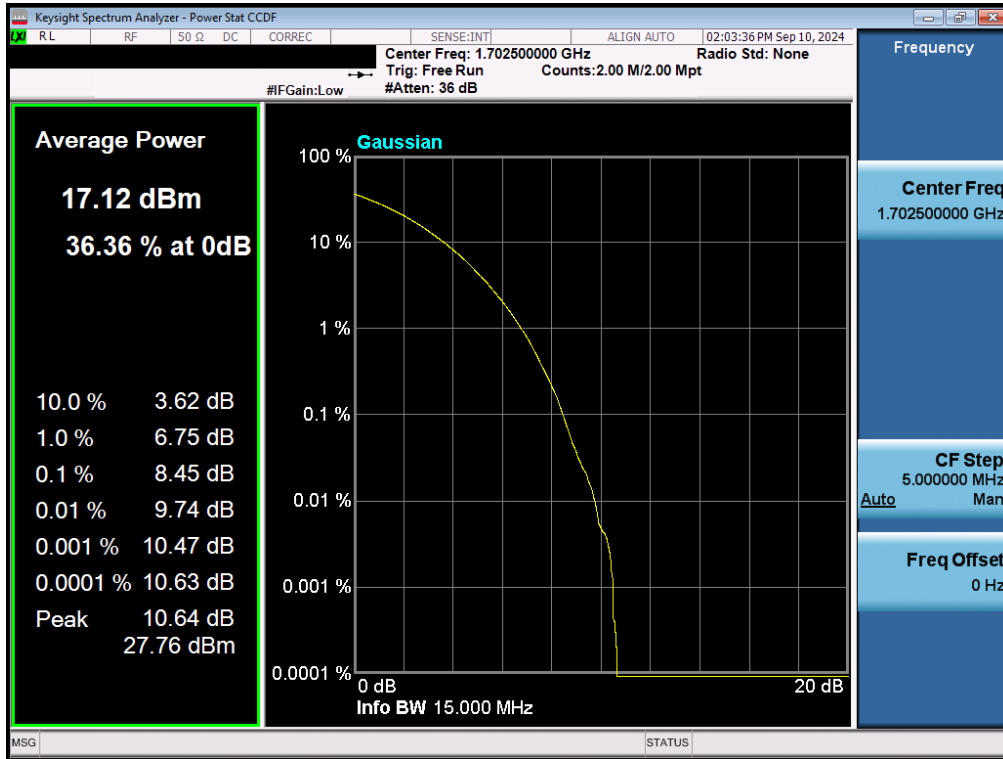


Plot 7-308. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT1)



Plot 7-309. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM QPSK - Full RB - ANT1)

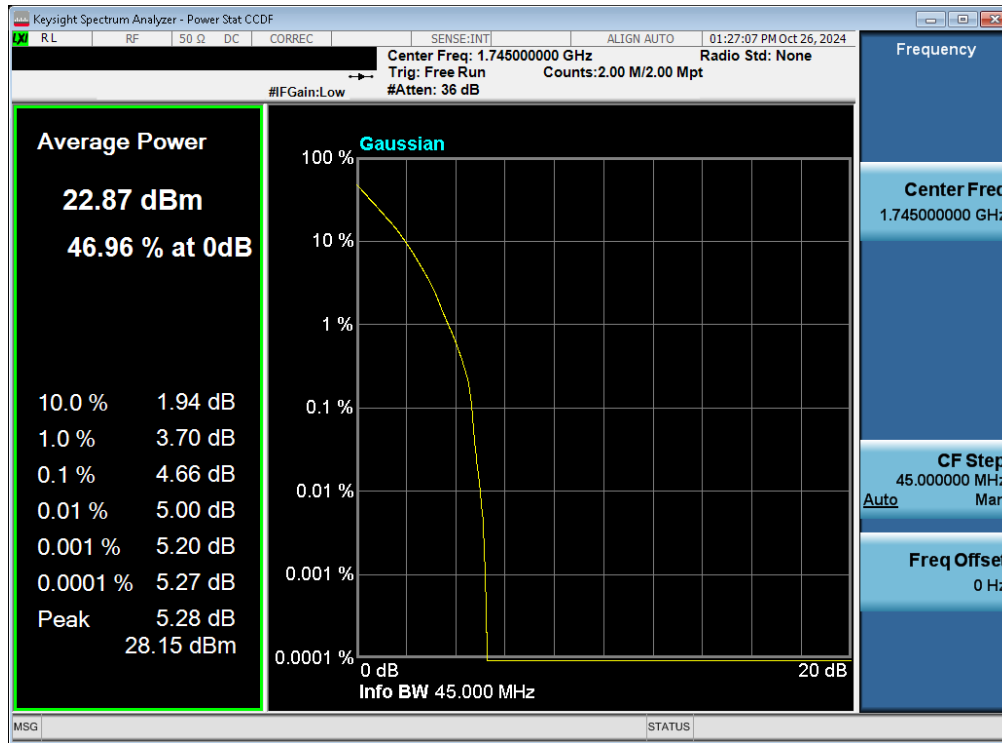
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 207 of 276



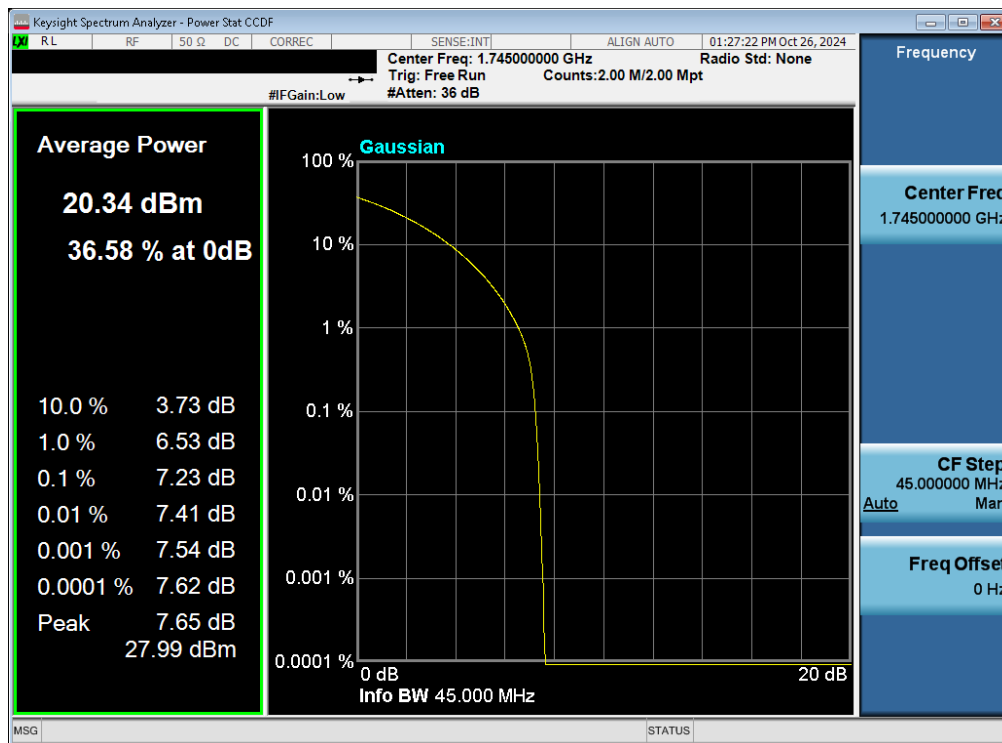
Plot 7-310. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT1

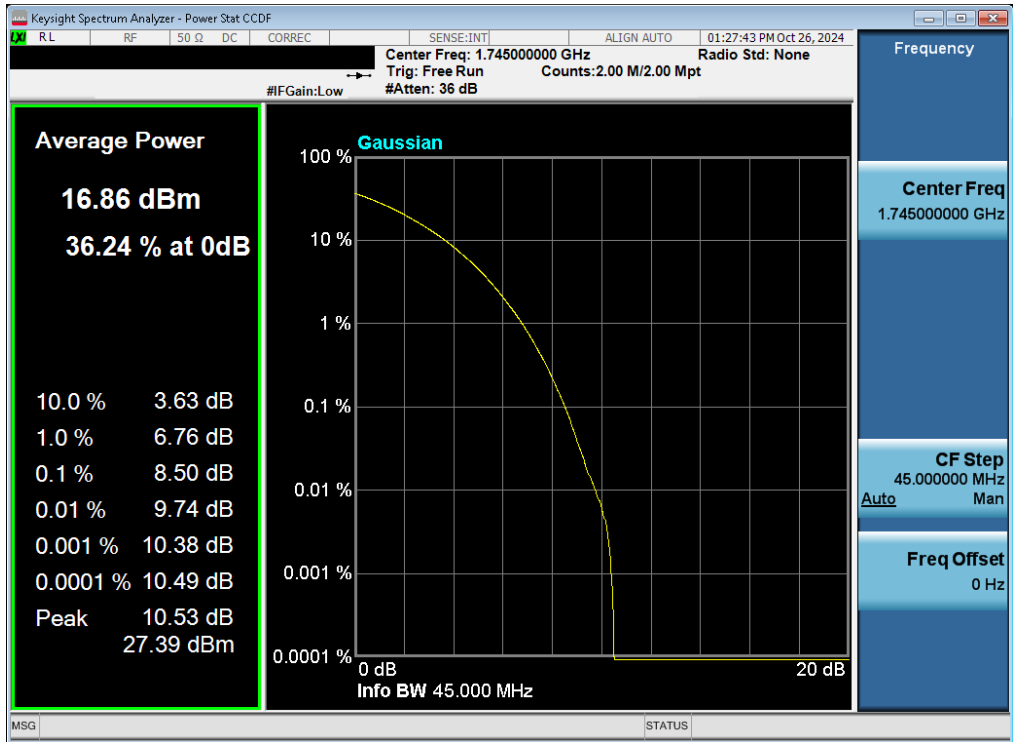


Plot 7-311. PAR Plot (NR Band n66 - 45.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT1)



Plot 7-312. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-313. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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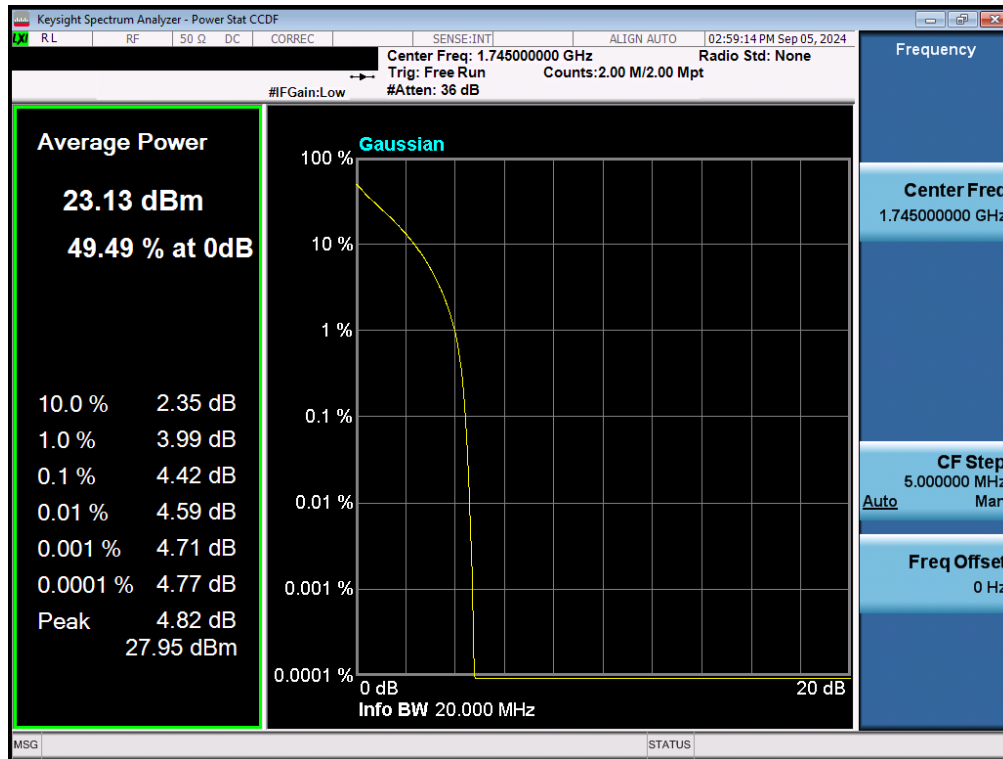
Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE-B66-4	20MHz	QPSK	23.13	4.42	13	-8.58
		256QAM	19.13	6.46	13	-6.54
	15MHz	QPSK	23.14	4.40	13	-8.60
		256QAM	19.16	6.46	13	-6.54
	10MHz	QPSK	23.19	4.45	13	-8.55
		256QAM	19.19	6.45	13	-6.55
	5MHz	QPSK	23.16	4.42	13	-8.58
		256QAM	19.16	6.47	13	-6.53
	3MHz	QPSK	23.17	4.33	13	-8.67
		256QAM	19.19	6.51	13	-6.49
	1.4MHz	QPSK	23.18	4.30	13	-8.70
		256QAM	19.05	6.52	13	-6.48
NR-n70	15MHz	$\pi/2$ BPSK	23.11	3.88	13	-9.12
		QPSK	20.67	6.93	13	-6.07
		256QAM	17.05	8.25	13	-4.75
	10MHz	$\pi/2$ BPSK	23.21	3.74	13	-9.26
		QPSK	20.78	6.82	13	-6.18
		256QAM	17.19	8.47	13	-4.53
	5MHz	$\pi/2$ BPSK	23.24	3.77	13	-9.23
		QPSK	20.79	6.86	13	-6.14
		256QAM	17.19	8.30	13	-4.70
NR-n66	45MHz	$\pi/2$ BPSK	23.04	3.79	13	-9.21
		QPSK	20.57	7.20	13	-5.80
		256QAM	17.04	8.37	13	-4.63
	40MHz	$\pi/2$ BPSK	23.20	4.07	13	-8.93
		QPSK	20.58	6.69	13	-6.31
		256QAM	17.03	8.30	13	-4.70
	35MHz	$\pi/2$ BPSK	23.09	3.86	13	-9.14
		QPSK	20.74	6.36	13	-6.64
		256QAM	17.28	8.14	13	-4.86
	30MHz	$\pi/2$ BPSK	23.23	3.77	13	-9.23
		QPSK	20.74	6.36	13	-6.64
		256QAM	17.28	8.14	13	-4.86
	20MHz	$\pi/2$ BPSK	23.29	3.85	13	-9.15
		QPSK	20.71	6.71	13	-6.29
		256QAM	17.14	8.40	13	-4.60
	15MHz	$\pi/2$ BPSK	23.15	4.01	13	-8.99
		QPSK	20.75	6.72	13	-6.28
		256QAM	17.14	8.32	13	-4.68
	10MHz	$\pi/2$ BPSK	23.18	3.95	13	-9.05
		QPSK	20.82	6.63	13	-6.37
		256QAM	17.24	8.52	13	-4.48
	5MHz	$\pi/2$ BPSK	23.22	3.62	13	-9.38
		QPSK	20.80	6.70	13	-6.30
		256QAM	17.24	8.36	13	-4.64

Table 7-24. Peak-Average Ratio Results – Ant2

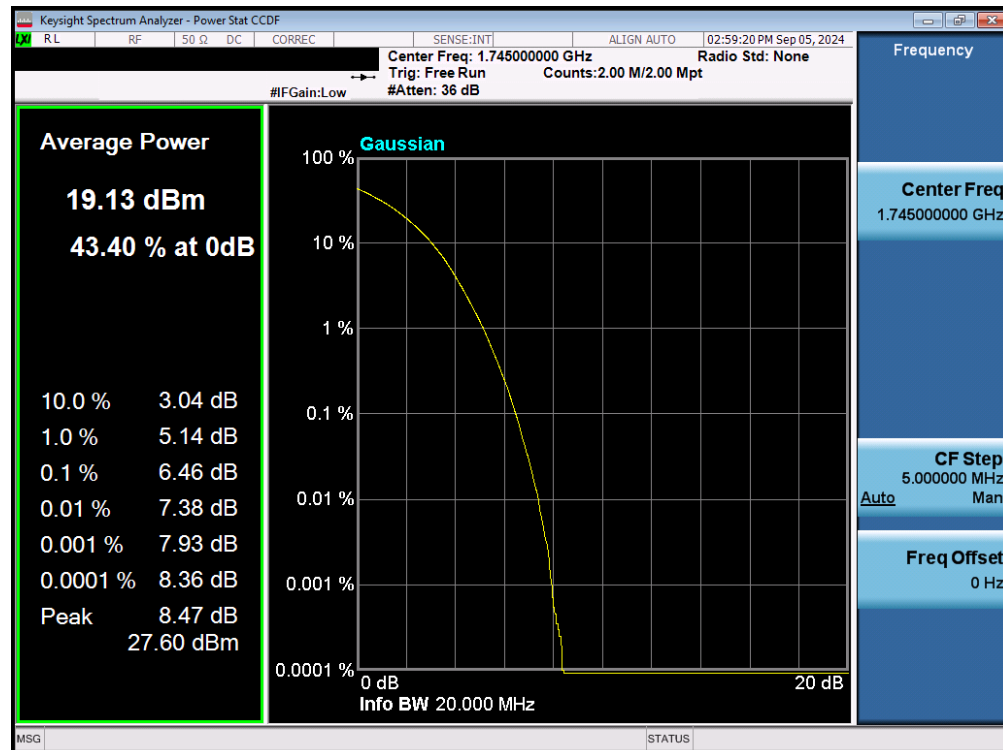
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT2



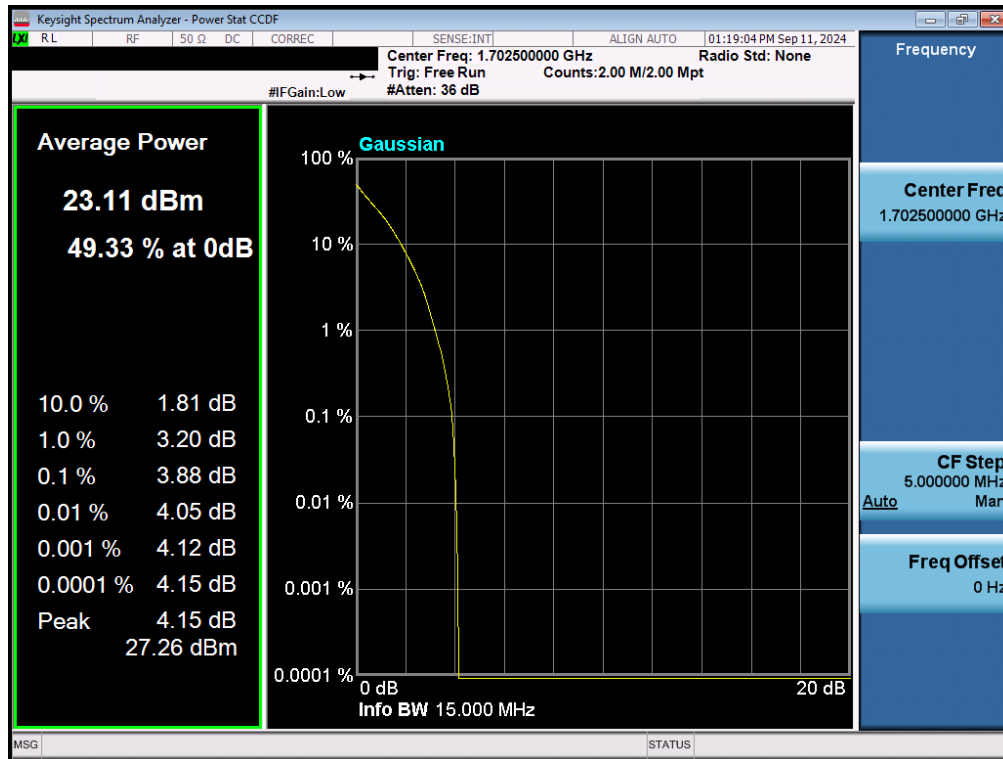
Plot 7-314. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT2)



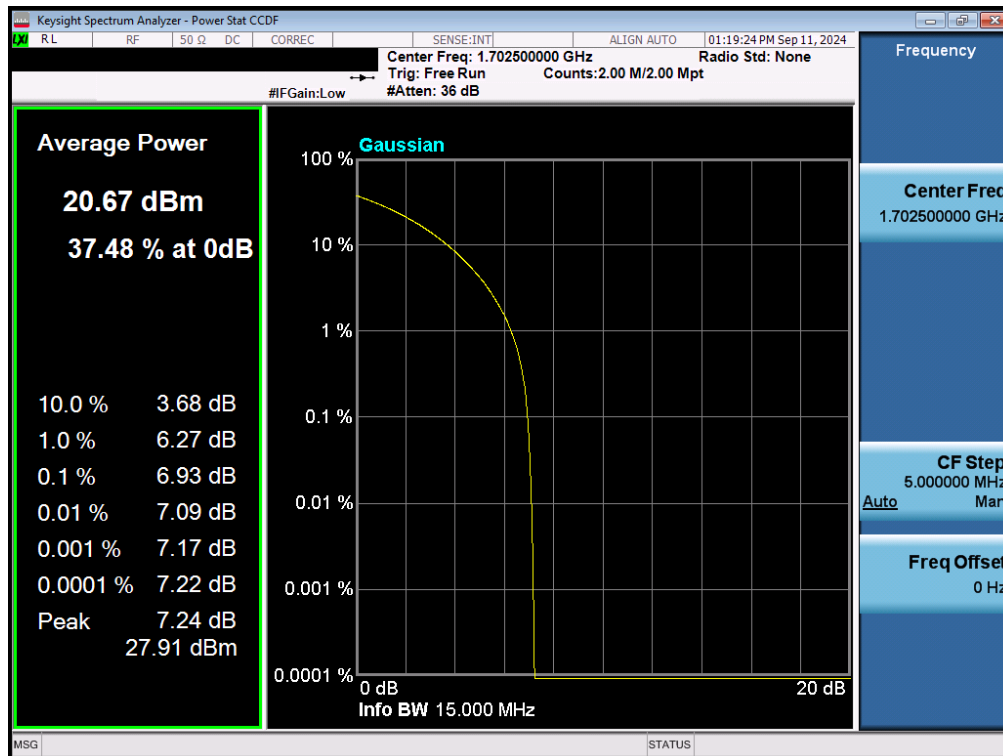
Plot 7-315. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70 – ANT2

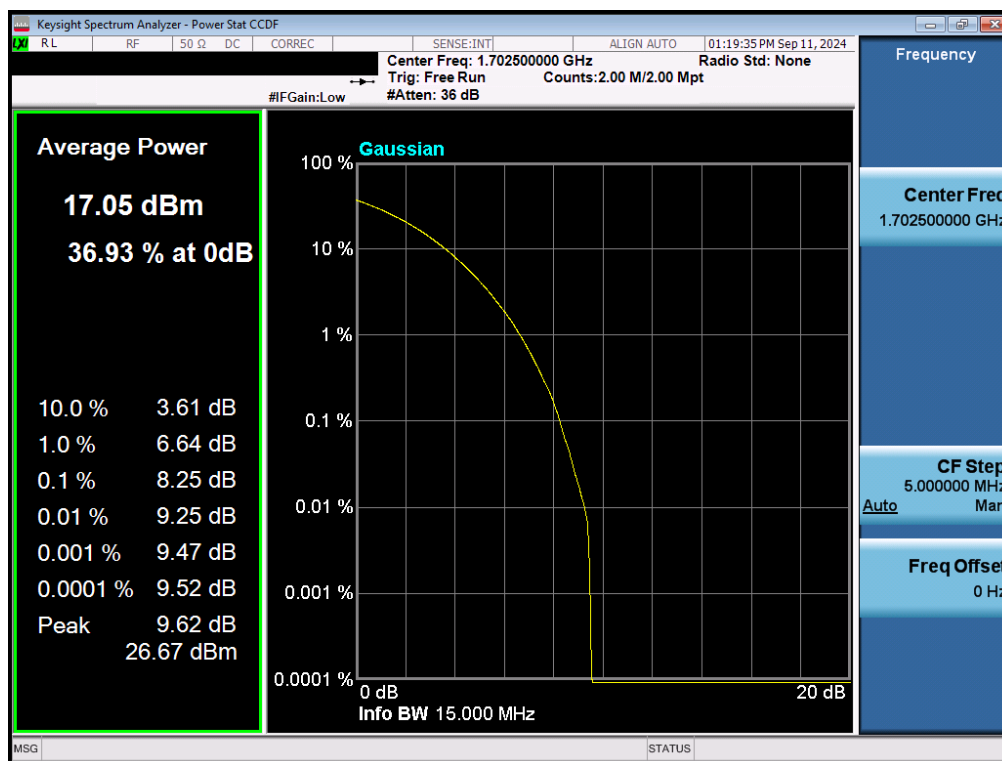


Plot 7-316. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT2)



Plot 7-317. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM QPSK - Full RB - ANT2)

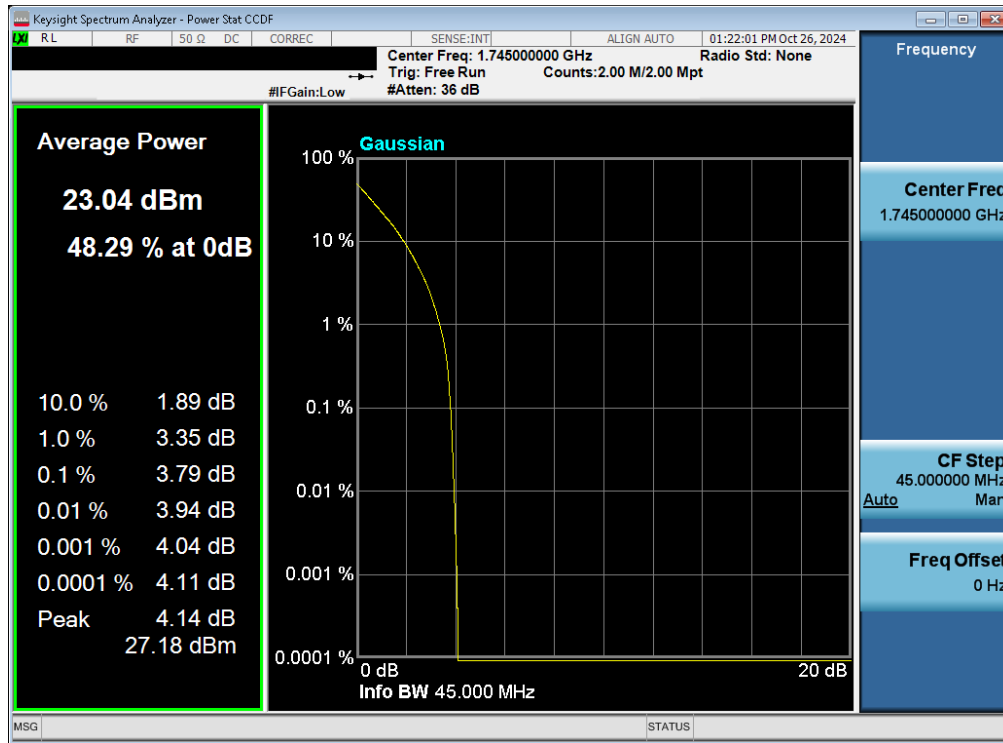
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 213 of 276



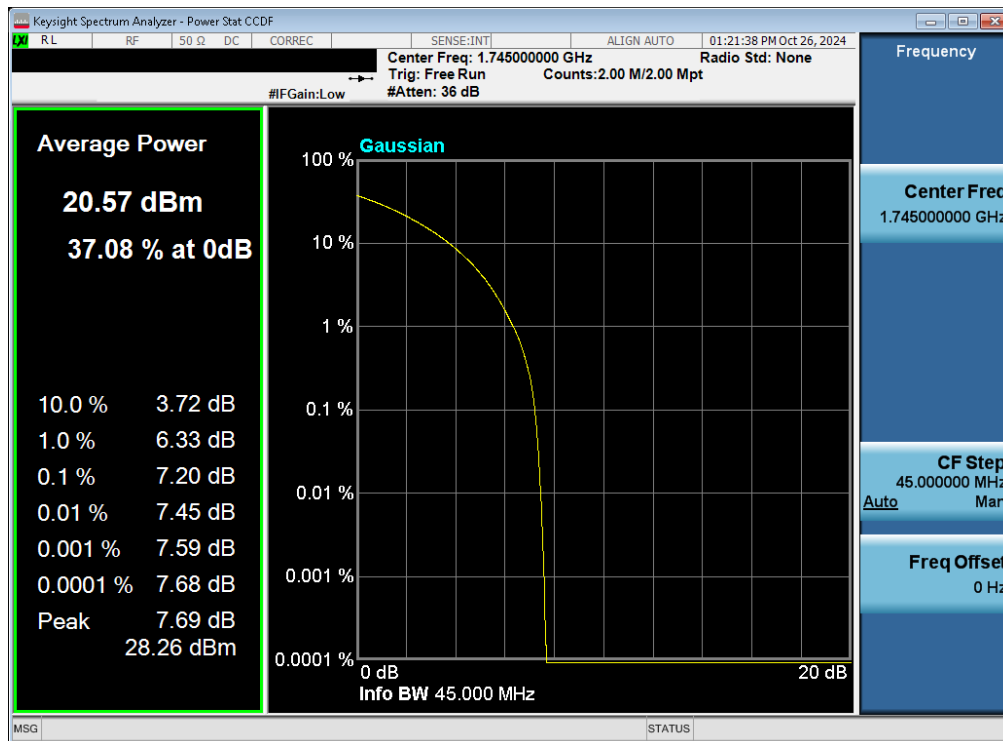
Plot 7-318. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT2

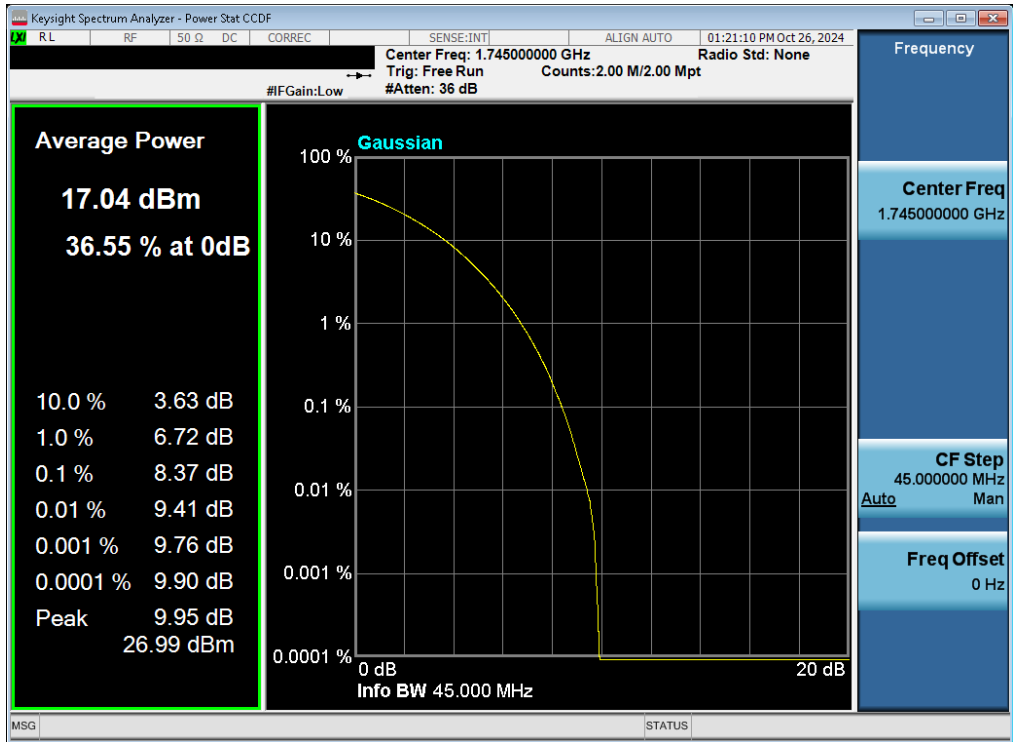


Plot 7-319. PAR Plot (NR Band n66 - 45.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT2)



Plot 7-320. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM QPSK - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-321. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

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7.7 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) 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, not to exceed 1MHz
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

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Test Setup

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

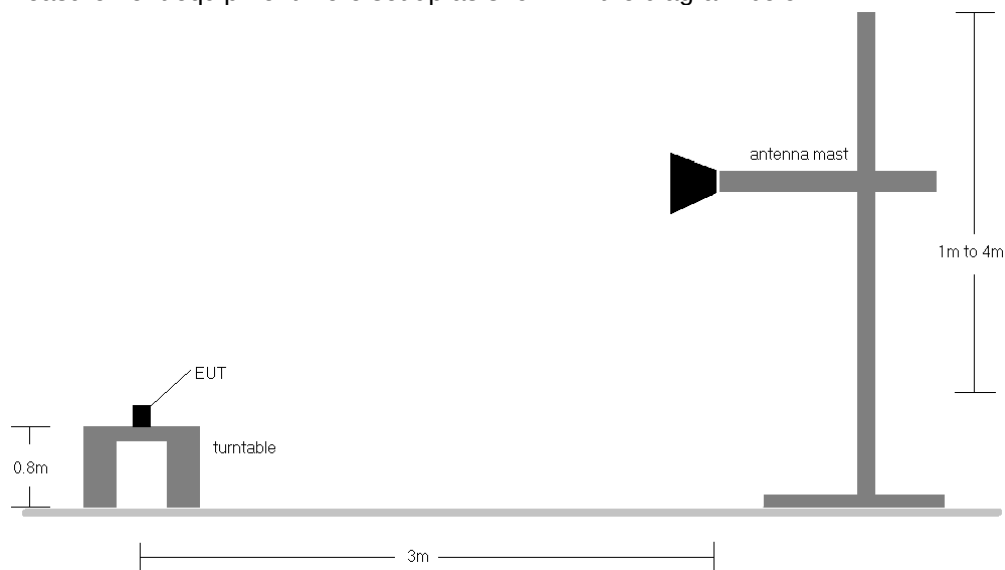


Figure 7-6. Radiated Test Setup <1GHz

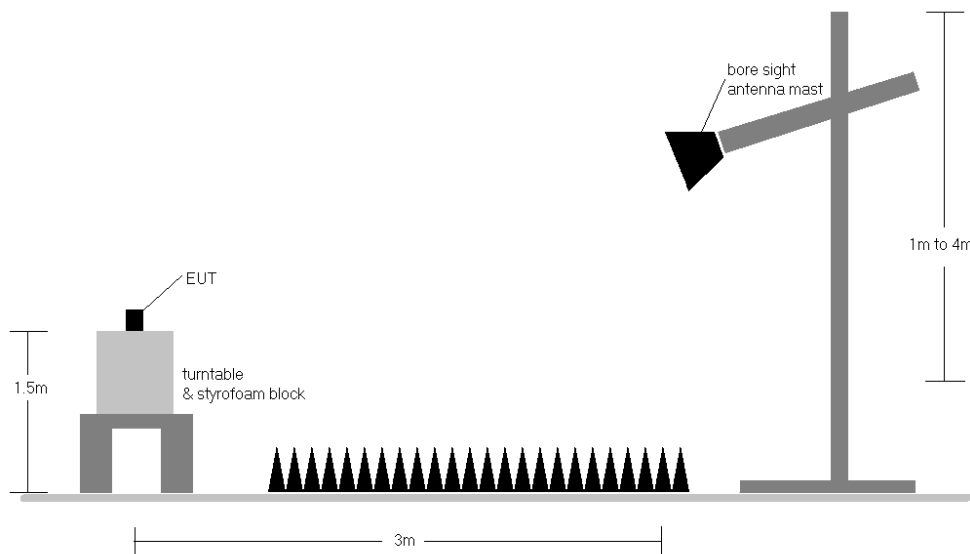


Figure 7-7. Radiated Test Setup >1GHz

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) 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.

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- 3) This unit was tested with its standard battery.
- 4) 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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Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	V	110	325	21.63	2.88	24.51	0.283	30.00	-5.49
1732.60	WCDMA1700	V	102	326	22.40	2.92	25.32	0.340	30.00	-4.68
1752.60	WCDMA1700	V	102	335	21.46	2.96	24.42	0.277	30.00	-5.58
1732.60	WCDMA1700	H	132	214	19.89	2.92	22.81	0.191	30.00	-7.19
1732.60	WCDMA1700 (WCP)	V	148	178	6.33	2.92	9.25	0.008	30.00	-20.75

Table 7-25. EIRP Data (WCDMA AWS) – Ant1

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]
20 MHz	QPSK	673.00	H	316	258	0.69	1 / 50	17.75	16.29	0.043	34.77	-18.48
	QPSK	680.50	H	306	267	0.81	1 / 99	19.15	17.81	0.060	34.77	-16.96
	QPSK	688.00	H	306	280	0.93	1 / 99	19.05	17.83	0.061	34.77	-16.94
	16-QAM	688.00	H	306	280	0.93	1 / 99	18.39	17.17	0.052	34.77	-17.60
15 MHz	QPSK	670.50	H	316	258	0.65	1 / 74	17.77	16.27	0.042	34.77	-18.50
	QPSK	680.50	H	306	267	0.81	1 / 74	19.39	18.05	0.064	34.77	-16.72
	QPSK	690.50	H	306	280	0.97	1 / 37	18.98	17.80	0.060	34.77	-16.97
	16-QAM	690.50	H	306	280	0.97	1 / 74	18.34	17.16	0.052	34.77	-17.61
10 MHz	QPSK	668.00	H	316	258	0.61	1 / 25	17.70	16.16	0.041	34.77	-18.61
	QPSK	680.50	H	306	267	0.81	1 / 25	19.30	17.96	0.063	34.77	-16.81
	QPSK	693.00	H	306	280	1.01	1 / 0	18.75	17.61	0.058	34.77	-17.16
	16-QAM	693.00	H	306	280	1.01	1 / 49	18.35	17.21	0.053	34.77	-17.57
5 MHz	QPSK	665.50	H	316	258	0.57	1 / 12	17.87	16.29	0.043	34.77	-18.48
	QPSK	680.50	H	306	267	0.81	1 / 12	19.36	18.02	0.063	34.77	-16.75
	QPSK	695.50	H	306	280	1.05	1 / 12	18.82	17.71	0.059	34.77	-17.06
	16-QAM	695.50	H	306	280	1.05	1 / 24	18.94	17.84	0.061	34.77	-16.93
20 MHz	Opposite Pol.	688.00	V	188	255	0.86	1 / 50	18.87	17.58	0.057	34.77	-17.20

Table 7-26. ERP Data (LTE Band 71) – Ant1

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]
10 MHz	QPSK	704.00	H	284	274	1.14	1 / 25	18.65	17.64	0.058	34.77	-17.13
	QPSK	707.50	H	287	283	1.16	1 / 49	18.22	17.23	0.053	34.77	-17.54
	QPSK	711.00	H	287	265	1.17	1 / 25	18.83	17.85	0.061	34.77	-16.92
	16-QAM	711.00	H	287	265	1.17	1 / 25	17.92	16.94	0.049	34.77	-17.83
5 MHz	QPSK	701.50	H	284	274	1.13	1 / 24	18.75	17.73	0.059	34.77	-17.04
	QPSK	707.50	H	287	283	1.16	1 / 12	18.29	17.30	0.054	34.77	-17.47
	QPSK	713.50	H	287	265	1.19	1 / 12	18.81	17.85	0.061	34.77	-16.92
	16-QAM	701.50	H	284	274	1.13	1 / 0	18.27	17.25	0.053	34.77	-17.52
3 MHz	QPSK	700.50	H	284	274	1.12	1 / 14	18.69	17.67	0.058	34.77	-17.11
	QPSK	707.50	H	287	283	1.16	1 / 7	18.28	17.29	0.054	34.77	-17.48
	QPSK	714.50	H	287	265	1.19	1 / 7	18.67	17.71	0.059	34.77	-17.06
	16-QAM	700.50	H	284	274	1.12	1 / 14	18.08	17.06	0.051	34.77	-17.71
1.4 MHz	QPSK	699.70	H	284	274	1.12	1 / 0	18.87	17.83	0.061	34.77	-16.94
	QPSK	707.50	H	287	283	1.16	1 / 5	18.08	17.09	0.051	34.77	-17.69
	QPSK	715.30	H	287	265	1.20	1 / 3	18.58	17.63	0.058	34.77	-17.15
	16-QAM	699.70	H	284	274	1.12	1 / 0	18.11	17.08	0.051	34.77	-17.70
10 MHz	Opposite Pol.	711.00	V	176	306	1.17	1 / 49	18.80	17.82	0.061	34.77	-16.95

Table 7-27. ERP Data (LTE Band 12) – Ant1

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]
10 MHz	QPSK	782.00	H	247	282	1.09	1 / 25	18.13	17.07	0.051	34.77	-17.71
	16-QAM	782.00	H	247	282	1.09	1 / 25	17.32	16.26	0.042	34.77	-18.52
5 MHz	QPSK	779.50	H	247	282	1.11	1 / 24	17.80	16.75	0.047	34.77	-18.02
	QPSK	782.00	H	247	282	1.09	1 / 24	18.44	17.38	0.055	34.77	-17.39
	QPSK	784.50	H	247	282	1.06	1 / 12	18.25	17.16	0.052	34.77	-17.61
	16-QAM	784.50	H	247	282	1.06	1 / 0	17.41	16.32	0.043	34.77	-18.45
10 MHz	Opposite Pol.	782.00	V	166	251	0.89	1 / 25	18.57	17.31	0.054	34.77	-17.46

Table 7-28. ERP Data (LTE Band 13) – Ant1

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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]
35 MHz	$\pi/2$ BPSK	680.50	H	323	263	0.81	1 / 1	19.28	17.94	0.062	34.77	-16.83
	QPSK	680.50	H	323	263	0.81	1 / 1	19.14	17.80	0.060	34.77	-16.97
	16-QAM	680.50	H	323	263	0.81	1 / 1	18.05	16.71	0.047	34.77	-18.06
30 MHz	$\pi/2$ BPSK	678.00	H	323	271	0.77	1 / 158	19.43	18.05	0.064	34.77	-16.73
	$\pi/2$ BPSK	680.50	H	323	263	0.81	1 / 158	19.55	18.21	0.066	34.77	-16.56
	$\pi/2$ BPSK	683.00	H	333	275	0.85	1 / 80	19.35	18.05	0.064	34.77	-16.72
	QPSK	678.00	H	323	271	0.77	1 / 158	19.31	17.93	0.062	34.77	-16.84
	QPSK	680.50	H	323	263	0.81	1 / 158	19.31	17.97	0.063	34.77	-16.81
	QPSK	683.00	H	333	275	0.85	1 / 80	19.02	17.72	0.059	34.77	-17.05
	16-QAM	680.50	H	323	263	0.81	1 / 158	17.94	16.60	0.046	34.77	-18.17
25 MHz	$\pi/2$ BPSK	675.50	H	323	271	0.73	1 / 131	19.47	18.05	0.064	34.77	-16.72
	$\pi/2$ BPSK	680.50	H	323	263	0.81	1 / 131	19.47	18.13	0.065	34.77	-16.64
	$\pi/2$ BPSK	685.50	H	333	275	0.89	1 / 66	19.48	18.22	0.066	34.77	-16.55
	QPSK	675.50	H	323	271	0.73	1 / 131	19.54	18.12	0.065	34.77	-16.65
	QPSK	680.50	H	323	263	0.81	1 / 131	19.15	17.81	0.060	34.77	-16.96
	QPSK	685.50	H	333	275	0.89	1 / 66	19.16	17.90	0.062	34.77	-16.87
	16-QAM	675.50	H	323	271	0.73	1 / 131	18.25	16.83	0.048	34.77	-17.94
20 MHz	$\pi/2$ BPSK	673.00	H	323	271	0.69	1 / 104	19.90	18.44	0.070	34.77	-16.33
	$\pi/2$ BPSK	680.50	H	323	263	0.81	1 / 1	19.80	18.46	0.070	34.77	-16.32
	$\pi/2$ BPSK	688.00	H	333	275	0.93	1 / 53	19.68	18.46	0.070	34.77	-16.31
	QPSK	673.00	H	323	271	0.69	1 / 104	19.60	18.14	0.065	34.77	-16.63
	QPSK	680.50	H	323	263	0.81	1 / 1	19.48	18.14	0.065	34.77	-16.63
	QPSK	688.00	H	333	275	0.93	1 / 53	19.51	18.29	0.067	34.77	-16.48
	16-QAM	688.00	H	333	275	0.93	1 / 53	18.35	17.13	0.052	34.77	-17.64
15 MHz	$\pi/2$ BPSK	670.50	H	323	271	0.65	1 / 77	19.82	18.32	0.068	34.77	-16.45
	$\pi/2$ BPSK	680.50	H	323	263	0.81	1 / 1	19.68	18.34	0.068	34.77	-16.43
	$\pi/2$ BPSK	690.50	H	333	275	0.97	1 / 39	19.59	18.41	0.069	34.77	-16.36
	QPSK	670.50	H	323	271	0.65	1 / 77	19.48	17.98	0.063	34.77	-16.79
	QPSK	680.50	H	323	263	0.81	1 / 1	19.65	18.31	0.068	34.77	-16.47
	QPSK	690.50	H	333	275	0.97	1 / 39	19.37	18.19	0.066	34.77	-16.58
	16-QAM	680.50	H	323	263	0.81	1 / 1	18.66	17.32	0.054	34.77	-17.45
10 MHz	$\pi/2$ BPSK	668.00	H	323	271	0.61	1 / 50	19.75	18.21	0.066	34.77	-16.56
	$\pi/2$ BPSK	680.50	H	323	263	0.81	1 / 1	19.65	18.31	0.068	34.77	-16.46
	$\pi/2$ BPSK	693.00	H	333	275	1.01	1 / 26	19.61	18.47	0.070	34.77	-16.30
	QPSK	668.00	H	323	271	0.61	1 / 50	19.53	17.99	0.063	34.77	-16.78
	QPSK	680.50	H	323	263	0.81	1 / 1	19.40	18.06	0.064	34.77	-16.71
	QPSK	693.00	H	333	275	1.01	1 / 26	19.27	18.13	0.065	34.77	-16.64
	16-QAM	693.00	H	333	275	1.01	1 / 26	18.16	17.02	0.050	34.77	-17.75
5 MHz	$\pi/2$ BPSK	665.50	H	323	271	0.57	1 / 12	19.67	18.09	0.064	34.77	-16.68
	$\pi/2$ BPSK	680.50	H	323	263	0.81	1 / 23	19.96	18.62	0.073	34.77	-16.15
	$\pi/2$ BPSK	695.50	H	333	275	1.05	1 / 1	19.66	18.56	0.072	34.77	-16.21
	QPSK	665.50	H	323	271	0.57	1 / 12	19.28	17.70	0.059	34.77	-17.07
	QPSK	680.50	H	323	263	0.81	1 / 23	19.45	18.11	0.065	34.77	-16.66
	QPSK	695.50	H	333	275	1.05	1 / 1	19.45	18.35	0.068	34.77	-16.42
	16-QAM	695.50	H	333	275	1.05	1 / 1	18.35	17.25	0.053	34.77	-17.53
35 MHz	QPSK (CP-OFDM)	680.50	H	330	273	0.81	1 / 53	17.09	15.75	0.038	34.77	-19.02
	QPSK (Opposite Pol.)	680.50	V	186	252	0.81	1 / 53	18.70	17.36	0.054	34.77	-17.41
	QPSK (WCP)	680.50	H	290	265	0.81	1 / 53	15.94	14.60	0.029	34.77	-20.17

Table 7-29. EIRP Data (NR Band n71) – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 221 of 276

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]
15 MHz	$\pi/2$ BPSK	706.50	H	145	290	1.15	1 / 1	16.87	15.87	0.039	34.77	-18.90
	$\pi/2$ BPSK	707.50	H	149	285	1.16	1 / 39	16.82	15.83	0.038	34.77	-18.94
	$\pi/2$ BPSK	708.50	H	145	286	1.16	1 / 1	17.24	16.25	0.042	34.77	-18.52
	QPSK	706.50	H	145	290	1.15	1 / 1	16.99	15.99	0.040	34.77	-18.78
	QPSK	707.50	H	149	285	1.16	1 / 39	16.68	15.69	0.037	34.77	-19.08
	QPSK	708.50	H	145	286	1.16	1 / 1	16.91	15.92	0.039	34.77	-18.85
10 MHz	16-QAM	708.50	H	145	286	1.16	1 / 1	15.78	14.79	0.030	34.77	-19.98
	$\pi/2$ BPSK	704.00	H	145	290	1.14	1 / 1	16.79	15.78	0.038	34.77	-18.99
	$\pi/2$ BPSK	707.50	H	149	285	1.16	1 / 50	16.82	15.82	0.038	34.77	-18.95
	$\pi/2$ BPSK	711.00	H	145	286	1.17	1 / 50	17.37	16.39	0.044	34.77	-18.38
	QPSK	704.00	H	145	290	1.14	1 / 1	17.06	16.05	0.040	34.77	-18.72
	QPSK	707.50	H	149	285	1.16	1 / 50	16.38	15.39	0.035	34.77	-19.39
5 MHz	QPSK	711.00	H	145	286	1.17	1 / 50	16.88	15.91	0.039	34.77	-18.87
	16-QAM	707.50	H	149	285	1.16	1 / 50	15.82	14.83	0.030	34.77	-19.94
	$\pi/2$ BPSK	701.50	H	145	290	1.13	1 / 23	16.77	15.75	0.038	34.77	-19.02
	$\pi/2$ BPSK	707.50	H	149	285	1.16	1 / 23	16.77	15.78	0.038	34.77	-18.99
	$\pi/2$ BPSK	713.50	H	145	286	1.19	1 / 23	17.18	16.22	0.042	34.77	-18.55
	QPSK	701.50	H	145	290	1.13	1 / 23	16.27	15.25	0.033	34.77	-19.53
15 MHz	QPSK	707.50	H	149	285	1.16	1 / 23	16.18	15.19	0.033	34.77	-19.58
	QPSK	713.50	H	145	286	1.19	1 / 23	16.94	15.98	0.040	34.77	-18.79
	16-QAM	713.50	H	145	286	1.19	1 / 23	15.59	14.62	0.029	34.77	-20.15
	QPSK (CP-OFDM)	708.50	H	145	286	1.16	1 / 1	15.67	14.68	0.029	34.77	-20.09
	QPSK (Opposite Pol.)	708.50	V	153	170	1.15	1 / 77	17.35	16.35	0.043	34.77	-18.42

Table 7-30. EIRP Data (NR Band n12) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.00	V	202	329	2.90	1 / 99	20.01	22.91	0.195	30.00	-7.09
	QPSK	1745.00	V	202	330	2.94	1 / 99	21.00	23.94	0.248	30.00	-6.06
	QPSK	1770.00	V	199	331	3.02	1 / 0	20.85	23.87	0.244	30.00	-6.13
	16-QAM	1770.00	V	199	331	3.02	1 / 0	20.28	23.30	0.214	30.00	-6.70
15 MHz	QPSK	1717.50	V	202	329	2.89	1 / 0	20.01	22.90	0.195	30.00	-7.10
	QPSK	1745.00	V	202	330	2.94	1 / 0	21.05	23.99	0.251	30.00	-6.01
	QPSK	1772.50	V	199	331	3.03	1 / 0	21.06	24.09	0.256	30.00	-5.91
	16-QAM	1772.50	V	199	331	3.03	1 / 37	20.50	23.53	0.225	30.00	-6.47
10 MHz	QPSK	1715.00	V	202	329	2.89	1 / 25	20.02	22.91	0.195	30.00	-7.09
	QPSK	1745.00	V	202	330	2.94	1 / 25	21.18	24.12	0.258	30.00	-5.88
	QPSK	1775.00	V	199	331	3.04	1 / 25	20.79	23.83	0.242	30.00	-6.17
	16-QAM	1775.00	V	199	331	3.04	1 / 25	20.29	23.33	0.215	30.00	-6.67
5 MHz	QPSK	1712.50	V	202	329	2.88	1 / 24	20.14	23.03	0.201	30.00	-6.97
	QPSK	1745.00	V	202	330	2.94	1 / 12	21.08	24.03	0.253	30.00	-5.97
	QPSK	1777.50	V	199	331	3.05	1 / 0	20.62	23.66	0.232	30.00	-6.34
	16-QAM	1777.50	V	199	331	3.05	1 / 12	20.32	23.36	0.217	30.00	-6.64
3 MHz	QPSK	1711.50	V	202	329	2.88	1 / 7	20.18	23.06	0.202	30.00	-6.94
	QPSK	1745.00	V	202	330	2.94	1 / 7	21.21	24.15	0.260	30.00	-5.85
	QPSK	1778.50	V	199	331	3.05	1 / 14	20.82	23.87	0.244	30.00	-6.13
	16-QAM	1778.50	V	199	331	3.05	1 / 7	20.32	23.37	0.217	30.00	-6.63
1.4 MHz	QPSK	1710.70	V	202	329	2.88	1 / 5	20.13	23.01	0.200	30.00	-6.99
	QPSK	1745.00	V	202	330	2.94	1 / 5	21.04	23.98	0.250	30.00	-6.02
	QPSK	1779.30	V	199	331	3.05	1 / 0	20.61	23.67	0.233	30.00	-6.33
	16-QAM	1779.30	V	199	331	3.05	1 / 0	20.26	23.31	0.214	30.00	-6.69
20 MHz	Opposite Pol.	1745.00	H	143	166	2.84	1 / 0	20.55	23.39	0.218	30.00	-6.61

Table 7-31. EIRP Data (LTE Band 66/4) – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset		Page 222 of 276

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	1702.50	H	153	198	2.90	1 / 77	20.54	23.44	0.221	30.00	-6.56
	QPSK	1702.50	H	153	198	2.90	1 / 77	20.40	23.30	0.214	30.00	-6.70
	16-QAM	1702.50	H	153	198	2.90	1 / 77	19.56	22.46	0.176	30.00	-7.54
10 MHz	$\pi/2$ BPSK	1700.00	H	153	198	2.90	1 / 1	20.62	23.53	0.225	30.00	-6.47
	$\pi/2$ BPSK	1702.50	H	153	198	2.90	1 / 26	20.47	23.37	0.217	30.00	-6.63
	$\pi/2$ BPSK	1705.00	H	153	198	2.90	1 / 50	20.64	23.54	0.226	30.00	-6.46
	QPSK	1700.00	H	153	198	2.90	1 / 1	20.38	23.28	0.213	30.00	-6.72
	QPSK	1702.50	H	153	198	2.90	1 / 26	20.44	23.34	0.216	30.00	-6.66
	QPSK	1705.00	H	153	198	2.90	1 / 50	20.13	23.03	0.201	30.00	-6.97
	16-QAM	1700.00	H	153	198	2.90	1 / 1	19.64	22.54	0.180	30.00	-7.46
5 MHz	$\pi/2$ BPSK	1697.50	H	153	198	2.91	1 / 12	20.61	23.52	0.225	30.00	-6.48
	$\pi/2$ BPSK	1702.50	H	153	198	2.90	1 / 23	20.57	23.47	0.223	30.00	-6.53
	$\pi/2$ BPSK	1707.50	H	153	198	2.89	1 / 23	20.65	23.54	0.226	30.00	-6.46
	QPSK	1697.50	H	153	198	2.91	1 / 12	20.04	22.95	0.197	30.00	-7.05
	QPSK	1702.50	H	153	198	2.90	1 / 23	20.39	23.29	0.213	30.00	-6.71
	QPSK	1707.50	H	153	198	2.89	1 / 23	20.35	23.24	0.211	30.00	-6.76
15 MHz	16-QAM	1702.50	H	153	198	2.90	1 / 23	19.69	22.59	0.181	30.00	-7.41
	QPSK (CP-OFDM)	1702.50	H	150	194	2.90	1 / 39	19.13	22.03	0.160	30.00	-7.97
	QPSK (Opposite Pol.)	1702.50	V	143	227	2.87	1 / 1	20.16	23.03	0.201	30.00	-6.97

Table 7-32. EIRP Data (NR Band n70) – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 223 of 276

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
45 MHz	$\pi/2$ BPSK	1733.50	V	198	324	2.92	1 / 240	20.92	23.84	0.242	30.00	-6.16
	$\pi/2$ BPSK	1745.00	V	201	316	2.94	1 / 120	21.04	23.98	0.250	30.00	-6.02
	$\pi/2$ BPSK	1757.50	V	201	322	2.98	1 / 120	21.27	24.25	0.266	30.00	-5.75
	QPSK	1733.50	V	198	324	2.92	1 / 240	20.99	23.91	0.246	30.00	-6.09
	QPSK	1745.00	V	201	316	2.94	1 / 120	21.01	23.95	0.248	30.00	-6.05
	QPSK	1757.50	V	201	322	2.98	1 / 120	21.10	24.08	0.256	30.00	-5.92
40 MHz	16-QAM	1757.50	V	201	322	2.98	1 / 120	20.42	23.40	0.219	30.00	-6.60
	$\pi/2$ BPSK	1730.00	V	198	324	2.92	1 / 108	20.95	23.87	0.244	30.00	-6.13
	$\pi/2$ BPSK	1745.00	V	201	316	2.94	1 / 1	21.20	24.15	0.260	30.00	-5.85
	$\pi/2$ BPSK	1760.00	V	201	322	2.99	1 / 214	21.22	24.21	0.263	30.00	-5.79
	QPSK	1730.00	V	198	324	2.92	1 / 108	21.02	23.94	0.248	30.00	-6.06
	QPSK	1745.00	V	201	316	2.94	1 / 1	20.77	23.71	0.235	30.00	-6.29
35 MHz	QPSK	1760.00	V	201	322	2.99	1 / 214	20.98	23.97	0.249	30.00	-6.03
	16-QAM	1760.00	V	201	322	2.99	1 / 214	20.16	23.15	0.206	30.00	-6.85
	$\pi/2$ BPSK	1725.00	V	198	324	2.91	1 / 1	21.07	23.98	0.250	30.00	-6.02
	$\pi/2$ BPSK	1745.00	V	201	316	2.94	1 / 94	21.04	23.99	0.250	30.00	-6.01
	$\pi/2$ BPSK	1765.00	V	201	322	3.00	1 / 94	21.33	24.33	0.271	30.00	-5.67
	QPSK	1725.00	V	198	324	2.91	1 / 1	21.36	24.26	0.267	30.00	-5.74
30 MHz	QPSK	1745.00	V	201	316	2.94	1 / 94	20.75	23.70	0.234	30.00	-6.30
	QPSK	1765.00	V	201	322	3.00	1 / 94	21.31	24.31	0.270	30.00	-5.69
	16-QAM	1725.00	V	198	324	2.91	1 / 1	20.36	23.27	0.212	30.00	-6.73
	$\pi/2$ BPSK	1725.00	V	198	324	2.91	1 / 1	21.27	24.18	0.262	30.00	-5.82
	$\pi/2$ BPSK	1745.00	V	201	316	2.94	1 / 1	21.29	24.23	0.265	30.00	-5.77
	$\pi/2$ BPSK	1765.00	V	201	322	3.00	1 / 1	21.30	24.30	0.269	30.00	-5.70
25 MHz	QPSK	1725.00	V	198	324	2.91	1 / 1	21.42	24.33	0.271	30.00	-5.67
	QPSK	1745.00	V	201	316	2.94	1 / 1	20.89	23.83	0.242	30.00	-6.17
	QPSK	1765.00	V	201	322	3.00	1 / 1	21.08	24.08	0.256	30.00	-5.92
	16-QAM	1725.00	V	198	324	2.91	1 / 1	20.42	23.33	0.215	30.00	-6.67
	$\pi/2$ BPSK	1722.5	V	198	324	2.90	1 / 1	21.31	24.21	0.264	30.00	-5.79
	$\pi/2$ BPSK	1745.0	V	201	316	2.94	1 / 1	21.07	24.01	0.252	30.00	-5.99
20 MHz	$\pi/2$ BPSK	1767.5	V	201	322	3.01	1 / 66	21.25	24.26	0.267	30.00	-5.74
	QPSK	1722.5	V	198	324	2.90	1 / 1	21.44	24.35	0.272	30.00	-5.65
	QPSK	1745.0	V	201	316	2.94	1 / 1	21.03	23.97	0.250	30.00	-6.03
	QPSK	1767.5	V	201	322	3.01	1 / 66	21.36	24.37	0.274	30.00	-5.63
	16-QAM	1767.5	V	201	322	3.01	1 / 66	20.08	23.09	0.204	30.00	-6.91
	$\pi/2$ BPSK	1720.00	V	198	324	2.90	1 / 53	21.16	24.06	0.255	30.00	-5.94
15 MHz	$\pi/2$ BPSK	1745.00	V	201	316	2.94	1 / 1	21.15	24.10	0.257	30.00	-5.90
	$\pi/2$ BPSK	1770.00	V	201	322	3.02	1 / 1	21.17	24.19	0.263	30.00	-5.81
	QPSK	1720.00	V	198	324	2.90	1 / 53	21.16	24.05	0.254	30.00	-5.95
	QPSK	1745.00	V	201	316	2.94	1 / 1	20.77	23.72	0.235	30.00	-6.28
	QPSK	1770.00	V	201	322	3.02	1 / 1	20.99	24.01	0.252	30.00	-5.99
	16-QAM	1720.00	V	198	324	2.90	1 / 53	20.25	23.15	0.207	30.00	-6.85
10 MHz	$\pi/2$ BPSK	1717.50	V	198	324	2.89	1 / 1	21.18	24.07	0.256	30.00	-5.93
	$\pi/2$ BPSK	1745.00	V	201	316	2.94	1 / 1	21.00	23.94	0.248	30.00	-6.06
	$\pi/2$ BPSK	1772.50	V	201	322	3.03	1 / 1	21.17	24.20	0.263	30.00	-5.80
	QPSK	1717.50	V	198	324	2.89	1 / 1	21.28	24.17	0.261	30.00	-5.83
	QPSK	1745.00	V	201	316	2.94	1 / 1	20.86	23.80	0.240	30.00	-6.20
	QPSK	1772.50	V	201	322	3.03	1 / 1	21.11	24.14	0.259	30.00	-5.86
5 MHz	16-QAM	1717.50	V	198	324	2.89	1 / 1	21.09	23.99	0.250	30.00	-6.01
	$\pi/2$ BPSK	1715.00	V	198	324	2.89	1 / 50	21.23	24.11	0.258	30.00	-5.89
	$\pi/2$ BPSK	1745.00	V	201	316	2.94	1 / 1	20.96	23.91	0.246	30.00	-6.09
	$\pi/2$ BPSK	1775.00	V	201	322	3.04	1 / 26	21.24	24.28	0.268	30.00	-5.72
	QPSK	1715.00	V	198	324	2.89	1 / 50	21.42	24.31	0.270	30.00	-5.69
	QPSK	1745.00	V	201	316	2.94	1 / 1	20.89	23.84	0.242	30.00	-6.16
45 MHz	QPSK	1775.00	V	201	322	3.04	1 / 26	20.93	23.97	0.250	30.00	-6.03
	16-QAM	1715.00	V	198	324	2.89	1 / 50	20.29	23.18	0.208	30.00	-6.82
	$\pi/2$ BPSK	1712.50	V	198	324	2.88	1 / 12	21.42	24.30	0.269	30.00	-5.70
	$\pi/2$ BPSK	1745.00	V	201	316	2.94	1 / 12	21.06	24.01	0.252	30.00	-5.99
	$\pi/2$ BPSK	1777.50	V	201	322	3.05	1 / 23	21.16	24.20	0.263	30.00	-5.80
	QPSK	1712.50	V	198	324	2.88	1 / 12	21.30	24.18	0.262	30.00	-5.82
45 MHz	QPSK	1745.00	V	201	316	2.94	1 / 12	20.67	23.61	0.230	30.00	-6.39
	QPSK	1777.50	V	201	322	3.05	1 / 23	20.97	24.02	0.252	30.00	-5.98
	16-QAM	1712.50	V	198	324	2.88	1 / 12	20.37	23.25	0.211	30.00	-6.75
45 MHz	'SK (CP-OFDM)	1757.50	V	197	322	2.98	1 / 108	19.90	22.88	0.194	30.00	-7.12
	QPSK (Opposite Pol.)	1757.50	H	130	205	2.98	1 / 108	20.19	23.17	0.207	30.00	-6.83
	QPSK (WCP)	1757.50	V	146	143	2.98	1 / 108	11.65	14.63	0.029	30.00	-15.37

Table 7-33. EIRP Data (NR Band n66) – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 224 of 276

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]
20 MHz	QPSK	673.00	H	293	251	0.69	1 / 50	18.09	16.63	0.046	34.77	-18.14
	QPSK	680.50	H	300	257	0.81	1 / 99	19.03	17.69	0.059	34.77	-17.08
	QPSK	688.00	H	306	246	0.93	1 / 99	18.99	17.77	0.060	34.77	-17.00
	16-QAM	688.00	H	306	246	0.93	1 / 99	18.31	17.09	0.051	34.77	-17.68
15 MHz	QPSK	670.50	H	293	251	0.65	1 / 74	17.98	16.47	0.044	34.77	-18.30
	QPSK	680.50	H	300	257	0.81	1 / 37	18.96	17.62	0.058	34.77	-17.15
	QPSK	690.50	H	306	246	0.97	1 / 37	18.90	17.73	0.059	34.77	-17.05
	16-QAM	690.50	H	306	246	0.97	1 / 37	18.41	17.23	0.053	34.77	-17.54
10 MHz	QPSK	668.00	H	293	251	0.61	1 / 0	17.92	16.38	0.043	34.77	-18.39
	QPSK	680.50	H	300	257	0.81	1 / 49	19.07	17.74	0.059	34.77	-17.04
	QPSK	693.00	H	306	246	1.01	1 / 25	18.94	17.80	0.060	34.77	-16.98
	16-QAM	693.00	H	306	246	1.01	1 / 25	18.70	17.56	0.057	34.77	-17.21
5 MHz	QPSK	665.50	H	293	251	0.57	1 / 12	18.17	16.58	0.046	34.77	-18.19
	QPSK	680.50	H	300	257	0.81	1 / 12	19.15	17.81	0.060	34.77	-16.96
	QPSK	695.50	H	306	246	1.05	1 / 12	19.02	17.92	0.062	34.77	-16.85
	16-QAM	695.50	H	306	246	1.05	1 / 12	18.53	17.43	0.055	34.77	-17.34
20 MHz	Opposite Pol.	688.00	V	182	296	0.86	1 / 99	17.20	15.91	0.039	34.77	-18.87
	WCP	688.00	H	146	287	0.93	1 / 99	16.79	15.57	0.036	34.77	-19.20

Table 7-34. ERP Data (LTE Band 71) – Ant2

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]
10 MHz	QPSK	704.00	H	284	257	1.14	1 / 25	20.17	19.16	0.082	34.77	-15.61
	QPSK	707.50	H	284	255	1.16	1 / 25	20.20	19.21	0.083	34.77	-15.56
	QPSK	711.00	H	287	252	1.17	1 / 25	20.18	19.20	0.083	34.77	-15.57
	16-QAM	707.50	H	284	255	1.16	1 / 25	19.73	18.74	0.075	34.77	-16.03
5 MHz	QPSK	701.50	H	284	257	1.13	1 / 12	20.38	19.36	0.086	34.77	-15.41
	QPSK	707.50	H	284	255	1.16	1 / 12	20.01	19.02	0.080	34.77	-15.75
	QPSK	713.50	H	287	252	1.19	1 / 12	20.30	19.33	0.086	34.77	-15.44
	16-QAM	707.50	H	284	255	1.16	1 / 12	19.82	18.83	0.076	34.77	-15.94
3 MHz	QPSK	700.50	H	284	257	1.12	1 / 7	20.05	19.03	0.080	34.77	-15.75
	QPSK	707.50	H	284	255	1.16	1 / 7	20.15	19.15	0.082	34.77	-15.62
	QPSK	714.50	H	287	252	1.19	1 / 7	20.18	19.22	0.084	34.77	-15.55
	16-QAM	707.50	H	284	255	1.16	1 / 0	19.95	18.96	0.079	34.77	-15.81
1.4 MHz	QPSK	699.70	H	284	257	1.12	1 / 0	20.14	19.10	0.081	34.77	-15.67
	QPSK	707.50	H	284	255	1.16	1 / 5	20.01	19.02	0.080	34.77	-15.75
	QPSK	715.30	H	287	252	1.20	1 / 0	20.09	19.14	0.082	34.77	-15.64
	16-QAM	699.70	H	284	257	1.12	1 / 0	19.94	18.90	0.078	34.77	-15.87
10 MHz	Opposite Pol.	707.50	V	169	247	1.14	1 / 49	20.06	19.05	0.080	34.77	-15.72
	WCP	707.50	H	284	259	1.16	1 / 25	19.71	18.72	0.074	34.77	-16.05

Table 7-35. ERP Data (LTE Band 12) – Ant2

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]
10 MHz	QPSK	782.00	H	241	231	1.09	1 / 49	18.03	16.97	0.050	34.77	-17.81
	16-QAM	782.00	H	241	231	1.09	1 / 49	17.32	16.26	0.042	34.77	-18.52
5 MHz	QPSK	779.50	H	241	231	1.11	1 / 24	17.96	16.92	0.049	34.77	-17.85
	QPSK	782.00	H	241	231	1.09	1 / 24	18.31	17.24	0.053	34.77	-17.53
	QPSK	784.50	H	241	231	1.06	1 / 12	18.39	17.31	0.054	34.77	-17.46
	16-QAM	784.50	H	241	231	1.06	1 / 12	17.81	16.72	0.047	34.77	-18.05
10 MHz	Opposite Pol.	782.00	V	149	258	0.89	1 / 25	18.08	16.82	0.048	34.77	-17.95
	WCP	782.00	H	234	246	1.09	1 / 25	18.65	17.59	0.057	34.77	-17.19

Table 7-36. ERP Data (LTE Band 13) – Ant2

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT								Approved by: Technical Manager			
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset								Page 225 of 276		

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]
35 MHz	$\pi/2$ BPSK	680.50	H	320	243	0.81	1 / 53	18.60	17.26	0.053	34.77	-17.51
	QPSK	680.50	H	320	243	0.81	1 / 1	18.55	17.21	0.053	34.77	-17.56
	16-QAM	680.50	H	320	243	0.81	1 / 1	17.56	16.22	0.042	34.77	-18.55
30 MHz	$\pi/2$ BPSK	673.00	H	321	233	0.69	1 / 104	18.03	16.57	0.045	34.77	-18.20
	$\pi/2$ BPSK	680.50	H	320	243	0.81	1 / 104	17.94	16.60	0.046	34.77	-18.17
	$\pi/2$ BPSK	688.00	H	331	235	0.93	1 / 104	17.80	16.58	0.045	34.77	-18.19
	QPSK	673.00	H	321	233	0.69	1 / 104	18.05	16.59	0.046	34.77	-18.18
	QPSK	680.50	H	320	243	0.81	1 / 104	17.83	16.49	0.045	34.77	-18.28
	QPSK	688.00	H	331	235	0.93	1 / 104	17.95	16.73	0.047	34.77	-18.04
	16-QAM	673.00	H	321	233	0.69	1 / 104	16.87	15.41	0.035	34.77	-19.36
25 MHz	$\pi/2$ BPSK	670.50	H	321	233	0.65	1 / 77	18.11	16.61	0.046	34.77	-18.16
	$\pi/2$ BPSK	680.50	H	320	243	0.81	1 / 77	17.98	16.64	0.046	34.77	-18.13
	$\pi/2$ BPSK	690.50	H	331	235	0.97	1 / 77	17.92	16.74	0.047	34.77	-18.04
	QPSK	670.50	H	321	233	0.65	1 / 77	18.07	16.56	0.045	34.77	-18.21
	QPSK	680.50	H	320	243	0.81	1 / 77	17.99	16.65	0.046	34.77	-18.12
	QPSK	690.50	H	331	235	0.97	1 / 77	17.86	16.68	0.047	34.77	-18.09
	16-QAM	690.50	H	331	235	0.97	1 / 77	16.58	15.40	0.035	34.77	-19.37
20 MHz	$\pi/2$ BPSK	670.50	H	321	233	0.65	1 / 77	18.13	16.63	0.046	34.77	-18.14
	$\pi/2$ BPSK	680.50	H	320	243	0.81	1 / 77	18.08	16.74	0.047	34.77	-18.04
	$\pi/2$ BPSK	690.50	H	331	235	0.97	1 / 39	18.11	16.93	0.049	34.77	-17.84
	QPSK	670.50	H	321	233	0.65	1 / 77	18.22	16.72	0.047	34.77	-18.05
	QPSK	680.50	H	320	243	0.81	1 / 77	18.14	16.80	0.048	34.77	-17.97
	QPSK	690.50	H	331	235	0.97	1 / 39	18.15	16.97	0.050	34.77	-17.81
	16-QAM	670.50	H	321	233	0.65	1 / 77	17.01	15.51	0.036	34.77	-19.26
15 MHz	$\pi/2$ BPSK	670.50	H	321	233	0.65	1 / 39	18.15	16.65	0.046	34.77	-18.12
	$\pi/2$ BPSK	680.50	H	320	243	0.81	1 / 39	18.08	16.74	0.047	34.77	-18.03
	$\pi/2$ BPSK	690.50	H	331	235	0.97	1 / 1	18.03	16.85	0.048	34.77	-17.92
	QPSK	670.50	H	321	233	0.65	1 / 39	18.31	16.80	0.048	34.77	-17.97
	QPSK	680.50	H	320	243	0.81	1 / 39	18.30	16.96	0.050	34.77	-17.81
	QPSK	690.50	H	331	235	0.97	1 / 1	18.12	16.94	0.049	34.77	-17.83
	16-QAM	680.50	H	320	243	0.81	1 / 39	17.17	15.83	0.038	34.77	-18.94
10 MHz	$\pi/2$ BPSK	668.00	H	321	233	0.61	1 / 50	18.21	16.67	0.046	34.77	-18.10
	$\pi/2$ BPSK	680.50	H	320	243	0.81	1 / 50	18.26	16.92	0.049	34.77	-17.85
	$\pi/2$ BPSK	693.00	H	331	235	1.01	1 / 26	18.24	17.10	0.051	34.77	-17.67
	QPSK	668.00	H	321	233	0.61	1 / 50	17.93	16.39	0.044	34.77	-18.38
	QPSK	680.50	H	320	243	0.81	1 / 50	18.09	16.75	0.047	34.77	-18.02
	QPSK	693.00	H	331	235	1.01	1 / 26	18.02	16.88	0.049	34.77	-17.89
	16-QAM	693.00	H	331	235	1.01	1 / 26	16.75	15.61	0.036	34.77	-19.17
5 MHz	$\pi/2$ BPSK	665.50	H	321	233	0.57	1 / 12	18.38	16.80	0.048	34.77	-17.97
	$\pi/2$ BPSK	680.50	H	320	243	0.81	1 / 12	18.20	16.86	0.049	34.77	-17.91
	$\pi/2$ BPSK	695.50	H	331	235	1.05	1 / 1	18.16	17.06	0.051	34.77	-17.71
	QPSK	665.50	H	321	233	0.57	1 / 12	18.14	16.56	0.045	34.77	-18.21
	QPSK	680.50	H	320	243	0.81	1 / 12	18.03	16.69	0.047	34.77	-18.08
	QPSK	695.50	H	331	235	1.05	1 / 1	18.10	17.00	0.050	34.77	-17.77
	16-QAM	695.50	H	331	235	1.05	1 / 1	16.77	15.67	0.037	34.77	-19.10
35 MHz	(CP-OFDM)	680.50	H	328	249	0.81	1 / 53	17.53	16.19	0.042	34.77	-18.58
	QPSK (Opposite Pol.)	680.50	V	172	273	0.81	1 / 1	17.65	16.31	0.043	34.77	-18.46
	QPSK (WCP)	680.50	H	130	267	0.81	1 / 53	17.73	16.39	0.044	34.77	-18.38

Table 7-37. EIRP Data (NR Band n71) – Ant2

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 226 of 276

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]
15 MHz	$\pi/2$ BPSK	706.50	H	284	241	1.15	1 / 39	19.29	18.29	0.067	34.77	-16.48
	$\pi/2$ BPSK	707.50	H	281	245	1.16	1 / 39	19.17	18.18	0.066	34.77	-16.59
	$\pi/2$ BPSK	708.50	H	281	251	1.16	1 / 39	19.00	18.01	0.063	34.77	-16.76
	QPSK	706.50	H	284	241	1.15	1 / 39	19.43	18.43	0.070	34.77	-16.34
	QPSK	707.50	H	281	245	1.16	1 / 39	19.04	18.05	0.064	34.77	-16.72
	QPSK	708.50	H	281	251	1.16	1 / 39	19.03	18.04	0.064	34.77	-16.73
10 MHz	16-QAM	706.50	H	284	241	1.15	1 / 39	18.39	17.39	0.055	34.77	-17.38
	$\pi/2$ BPSK	704.00	H	284	241	1.14	1 / 50	19.25	18.24	0.067	34.77	-16.53
	$\pi/2$ BPSK	707.50	H	281	245	1.16	1 / 50	19.18	18.19	0.066	34.77	-16.58
	$\pi/2$ BPSK	711.00	H	281	251	1.17	1 / 50	18.91	17.94	0.062	34.77	-16.83
	QPSK	704.00	H	284	241	1.14	1 / 50	19.03	18.02	0.063	34.77	-16.75
	QPSK	707.50	H	281	245	1.16	1 / 50	19.16	18.16	0.065	34.77	-16.61
5 MHz	QPSK	711.00	H	281	251	1.17	1 / 50	18.70	17.72	0.059	34.77	-17.05
	16-QAM	704.00	H	284	241	1.14	1 / 50	17.89	16.88	0.049	34.77	-17.89
	$\pi/2$ BPSK	701.50	H	284	241	1.13	1 / 12	19.02	18.00	0.063	34.77	-16.77
	$\pi/2$ BPSK	707.50	H	281	245	1.16	1 / 23	19.25	18.26	0.067	34.77	-16.51
	$\pi/2$ BPSK	713.50	H	281	251	1.19	1 / 1	19.00	18.04	0.064	34.77	-16.73
	QPSK	701.50	H	284	241	1.13	1 / 12	18.82	17.80	0.060	34.77	-16.97
15 MHz	QPSK	707.50	H	281	245	1.16	1 / 23	19.04	18.05	0.064	34.77	-16.73
	QPSK	713.50	H	281	251	1.19	1 / 1	18.83	17.86	0.061	34.77	-16.91
	16-QAM	713.50	H	281	251	1.19	1 / 1	17.95	16.99	0.050	34.77	-17.78
	QPSK (CP-OFDM)	706.50	H	281	251	1.15	1 / 39	17.91	16.91	0.049	34.77	-17.86
15 MHz	QPSK (Opposite Pol.)	706.50	V	156	277	1.14	1 / 77	19.37	18.36	0.069	34.77	-16.41
	QPSK (WCP)	706.50	H	281	242	1.15	1 / 39	18.30	17.30	0.054	34.77	-17.47

Table 7-38. EIRP Data (NR Band n12) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.00	V	130	317	2.90	1 / 99	19.23	22.13	0.163	30.00	-7.87
	QPSK	1745.00	V	130	321	2.94	1 / 0	18.80	21.74	0.149	30.00	-8.26
	QPSK	1770.00	V	123	319	3.02	1 / 0	18.74	21.76	0.150	30.00	-8.24
	16-QAM	1745.00	V	130	321	2.94	1 / 0	18.26	21.20	0.132	30.00	-8.80
15 MHz	QPSK	1717.50	V	130	317	2.89	1 / 0	19.28	22.17	0.165	30.00	-7.83
	QPSK	1745.00	V	130	321	2.94	1 / 0	19.03	21.97	0.158	30.00	-8.03
	QPSK	1772.50	V	123	319	3.03	1 / 0	18.64	21.67	0.147	30.00	-8.33
	16-QAM	1745.00	V	130	321	2.94	1 / 0	18.32	21.26	0.134	30.00	-8.74
10 MHz	QPSK	1715.00	V	130	317	2.89	1 / 25	19.32	22.21	0.166	30.00	-7.79
	QPSK	1745.00	V	130	321	2.94	1 / 49	18.68	21.62	0.145	30.00	-8.38
	QPSK	1775.00	V	123	319	3.04	1 / 25	18.52	21.56	0.143	30.00	-8.44
	16-QAM	1715.00	V	130	317	2.89	1 / 25	18.56	21.44	0.139	30.00	-8.56
5 MHz	QPSK	1712.50	V	130	317	2.88	1 / 12	19.28	22.16	0.165	30.00	-7.84
	QPSK	1745.00	V	130	321	2.94	1 / 12	18.66	21.61	0.145	30.00	-8.39
	QPSK	1777.50	V	123	319	3.05	1 / 12	18.61	21.66	0.146	30.00	-8.34
	16-QAM	1712.50	V	130	317	2.88	1 / 24	18.67	21.56	0.143	30.00	-8.44
3 MHz	QPSK	1711.50	V	130	317	2.88	1 / 14	19.31	22.20	0.166	30.00	-7.80
	QPSK	1745.00	V	130	321	2.94	1 / 7	18.69	21.64	0.146	30.00	-8.36
	QPSK	1778.50	V	123	319	3.05	1 / 14	18.44	21.49	0.141	30.00	-8.51
	16-QAM	1711.50	V	130	317	2.88	1 / 7	18.54	21.42	0.139	30.00	-8.58
1.4 MHz	QPSK	1710.70	V	130	317	2.88	1 / 3	19.20	22.08	0.161	30.00	-7.92
	QPSK	1745.00	V	130	321	2.94	1 / 0	18.68	21.62	0.145	30.00	-8.38
	QPSK	1779.30	V	123	319	3.05	1 / 0	18.34	21.40	0.138	30.00	-8.60
	16-QAM	1710.70	V	130	317	2.88	1 / 5	18.44	21.32	0.135	30.00	-8.68
20 MHz	Opposite Pol.	1720.00	H	146	309	2.88	1 / 99	18.71	21.59	0.144	30.00	-8.41
	WCP	1720.00	V	352	245	2.90	1 / 99	13.64	16.54	0.045	30.00	-13.46

Table 7-39. EIRP Data (LTE Band 66/4) – Ant2

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 227 of 276

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	1702.50	V	209	35	2.87	1 / 39	19.87	22.74	0.188	30.00	-7.26
	QPSK	1702.50	V	209	35	2.87	1 / 39	19.91	22.78	0.189	30.00	-7.22
	16-QAM	1702.50	V	209	35	2.87	1 / 39	19.13	22.00	0.158	30.00	-8.00
10 MHz	$\pi/2$ BPSK	1700.00	V	209	35	2.86	1 / 50	19.85	22.71	0.187	30.00	-7.29
	$\pi/2$ BPSK	1702.50	V	209	35	2.87	1 / 50	19.97	22.84	0.192	30.00	-7.16
	$\pi/2$ BPSK	1705.00	V	209	35	2.87	1 / 50	19.97	22.84	0.192	30.00	-7.16
	QPSK	1700.00	V	209	35	2.86	1 / 50	19.66	22.52	0.179	30.00	-7.48
	QPSK	1702.50	V	209	35	2.87	1 / 50	19.84	22.70	0.186	30.00	-7.30
	QPSK	1705.00	V	209	35	2.87	1 / 50	19.53	22.40	0.174	30.00	-7.60
	16-QAM	1702.50	V	209	35	2.87	1 / 50	19.54	22.41	0.174	30.00	-7.59
5 MHz	$\pi/2$ BPSK	1697.50	V	209	35	2.86	1 / 12	19.79	22.65	0.184	30.00	-7.35
	$\pi/2$ BPSK	1702.50	V	209	35	2.87	1 / 23	19.90	22.77	0.189	30.00	-7.23
	$\pi/2$ BPSK	1707.50	V	209	35	2.88	1 / 12	19.86	22.74	0.188	30.00	-7.26
	QPSK	1697.50	V	209	35	2.86	1 / 12	19.66	22.52	0.179	30.00	-7.48
	QPSK	1702.50	V	209	35	2.87	1 / 23	19.42	22.29	0.169	30.00	-7.71
	QPSK	1707.50	V	209	35	2.88	1 / 12	19.41	22.28	0.169	30.00	-7.72
15 MHz	16-QAM	1702.50	V	209	35	2.87	1 / 23	19.18	22.04	0.160	30.00	-7.96
	QPSK (CP-OFDM)	1702.50	V	202	33	2.87	1 / 1	17.87	20.74	0.118	30.00	-9.26
	QPSK (Opposite Pol.)	1702.50	H	146	314	2.90	1 / 39	19.41	22.31	0.170	30.00	-7.69
	QPSK (WCP)	1702.50	V	375	223	2.87	1 / 39	15.89	18.76	0.075	30.00	-11.24

Table 7-40. EIRP Data (NR Band n70) – Ant2

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 228 of 276

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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
45 MHz	$\pi/2$ BPSK	1732.50	H	195	309	2.86	1 / 120	20.46	23.32	0.215	30.00	-6.68
	$\pi/2$ BPSK	1745.00	H	192	313	2.84	1 / 1	20.78	23.62	0.230	30.00	-6.38
	$\pi/2$ BPSK	1757.50	H	192	304	2.82	1 / 120	19.47	22.29	0.169	30.00	-7.71
	QPSK	1732.50	H	195	309	2.86	1 / 120	20.47	23.33	0.215	30.00	-6.67
	QPSK	1745.00	H	192	313	2.84	1 / 1	20.61	23.45	0.221	30.00	-6.55
	QPSK	1757.50	H	192	304	2.82	1 / 120	19.38	22.20	0.166	30.00	-7.80
40 MHz	16-QAM	1732.50	H	195	309	2.86	1 / 120	19.39	22.25	0.168	30.00	-7.75
	$\pi/2$ BPSK	1730.00	H	195	309	2.86	1 / 1	20.37	23.23	0.210	30.00	-6.77
	$\pi/2$ BPSK	1745.00	H	192	313	2.84	1 / 1	20.52	23.37	0.217	30.00	-6.63
	$\pi/2$ BPSK	1760.00	H	192	304	2.81	1 / 1	19.44	22.25	0.168	30.00	-7.75
	QPSK	1730.00	H	195	309	2.86	1 / 1	20.38	23.24	0.211	30.00	-6.76
	QPSK	1745.00	H	192	313	2.84	1 / 1	20.43	23.27	0.212	30.00	-6.73
35 MHz	QPSK	1760.00	H	192	304	2.81	1 / 108	19.35	22.16	0.164	30.00	-7.84
	16-QAM	1730.00	H	195	309	2.86	1 / 108	19.30	22.17	0.165	30.00	-7.83
	$\pi/2$ BPSK	1727.50	H	195	309	2.87	1 / 1	20.46	23.32	0.215	30.00	-6.68
	$\pi/2$ BPSK	1745.00	H	192	313	2.84	1 / 1	20.78	23.62	0.230	30.00	-6.38
	$\pi/2$ BPSK	1762.50	H	192	304	2.81	1 / 1	19.48	22.28	0.169	30.00	-7.72
	QPSK	1727.50	H	195	309	2.87	1 / 1	20.47	23.33	0.215	30.00	-6.67
30 MHz	QPSK	1745.00	H	192	313	2.84	1 / 1	20.61	23.45	0.221	30.00	-6.55
	QPSK	1762.50	H	192	304	2.81	1 / 1	19.39	22.19	0.166	30.00	-7.81
	16-QAM	1727.50	H	195	309	2.87	1 / 94	19.39	22.25	0.168	30.00	-7.75
	$\pi/2$ BPSK	1725.00	H	195	309	2.87	1 / 80	20.36	23.23	0.210	30.00	-6.77
	$\pi/2$ BPSK	1745.00	H	192	313	2.84	1 / 1	20.52	23.37	0.217	30.00	-6.63
	$\pi/2$ BPSK	1765.00	H	192	304	2.80	1 / 80	19.46	22.26	0.168	30.00	-7.74
25 MHz	QPSK	1725.00	H	195	309	2.87	1 / 80	20.37	23.24	0.211	30.00	-6.76
	QPSK	1745.00	H	192	313	2.84	1 / 1	20.43	23.27	0.212	30.00	-6.73
	QPSK	1765.00	H	192	304	2.80	1 / 80	19.37	22.17	0.165	30.00	-7.83
	16-QAM	1725.00	H	195	309	2.87	1 / 80	19.29	22.16	0.165	30.00	-7.84
	$\pi/2$ BPSK	1722.5	H	192	304	2.87	1 / 1	20.45	23.32	0.215	30.00	-6.68
	$\pi/2$ BPSK	1745.0	H	192	304	2.84	1 / 1	20.69	23.53	0.225	30.00	-6.47
20 MHz	$\pi/2$ BPSK	1767.5	H	192	304	2.80	1 / 1	19.64	22.43	0.175	30.00	-7.57
	QPSK	1722.5	H	192	304	2.87	1 / 1	20.57	23.45	0.221	30.00	-6.55
	QPSK	1745.0	H	192	304	2.84	1 / 1	20.47	23.32	0.215	30.00	-6.68
	QPSK	1767.5	H	192	304	2.80	1 / 1	19.25	22.05	0.160	30.00	-7.95
	16-QAM	1722.5	H	192	304	2.87	1 / 1	19.68	22.55	0.180	30.00	-7.45
	$\pi/2$ BPSK	1720.00	H	195	309	2.88	1 / 1	20.32	23.20	0.209	30.00	-6.80
15 MHz	$\pi/2$ BPSK	1745.00	H	192	313	2.84	1 / 1	20.41	23.26	0.212	30.00	-6.74
	$\pi/2$ BPSK	1770.00	H	192	304	2.79	1 / 53	19.51	22.30	0.170	30.00	-7.70
	QPSK	1720.00	H	195	309	2.88	1 / 1	20.40	23.27	0.213	30.00	-6.73
	QPSK	1745.00	H	192	313	2.84	1 / 1	20.24	23.09	0.204	30.00	-6.91
	QPSK	1770.00	H	192	304	2.79	1 / 53	19.23	22.02	0.159	30.00	-7.98
	16-QAM	1745.00	H	192	313	2.84	1 / 1	19.37	22.21	0.166	30.00	-7.79
10 MHz	$\pi/2$ BPSK	1717.50	H	195	309	2.88	1 / 39	20.48	23.36	0.217	30.00	-6.64
	$\pi/2$ BPSK	1745.00	H	192	313	2.84	1 / 1	20.56	23.40	0.219	30.00	-6.60
	$\pi/2$ BPSK	1772.50	H	192	304	2.78	1 / 1	19.60	22.39	0.173	30.00	-7.61
	QPSK	1717.50	H	195	309	2.88	1 / 39	20.48	23.37	0.217	30.00	-6.63
	QPSK	1745.00	H	192	313	2.84	1 / 1	20.41	23.25	0.211	30.00	-6.75
	QPSK	1772.50	H	192	304	2.78	1 / 1	19.50	22.28	0.169	30.00	-7.72
5 MHz	16-QAM	1717.50	H	195	309	2.88	1 / 39	19.79	22.67	0.185	30.00	-7.33
	$\pi/2$ BPSK	1715.00	H	195	309	2.88	1 / 26	20.65	23.54	0.226	30.00	-6.46
	$\pi/2$ BPSK	1745.00	H	192	313	2.84	1 / 50	20.81	23.65	0.232	30.00	-6.35
	$\pi/2$ BPSK	1775.00	H	192	304	2.78	1 / 1	19.47	22.25	0.168	30.00	-7.75
	QPSK	1715.00	H	195	309	2.88	1 / 26	20.59	23.47	0.222	30.00	-6.53
	QPSK	1745.00	H	192	313	2.84	1 / 50	20.49	23.34	0.216	30.00	-6.66
45 MHz	QPSK	1775.00	H	192	304	2.78	1 / 1	19.12	21.89	0.155	30.00	-8.11
	16-QAM	1715.00	H	195	309	2.88	1 / 26	19.64	22.52	0.179	30.00	-7.48
	$\pi/2$ BPSK	1712.50	H	195	309	2.89	1 / 12	20.47	23.36	0.217	30.00	-6.64
	$\pi/2$ BPSK	1745.00	H	192	313	2.84	1 / 12	20.54	23.39	0.218	30.00	-6.61
	$\pi/2$ BPSK	1777.50	H	192	304	2.77	1 / 23	19.75	22.52	0.179	30.00	-7.48
	QPSK	1712.50	H	195	309	2.89	1 / 12	20.48	23.36	0.217	30.00	-6.64
45 MHz	QPSK	1745.00	H	192	313	2.84	1 / 12	20.27	23.11	0.205	30.00	-6.89
	QPSK	1777.50	H	192	304	2.77	1 / 23	19.06	21.83	0.152	30.00	-8.17
	16-QAM	1712.50	H	195	309	2.89	1 / 12	19.47	22.35	0.172	30.00	-7.65
45 MHz	QPSK (CP-OFDM)	1745.00	H	192	310	2.84	1 / 1	19.43	22.27	0.169	30.00	-7.73
	QPSK (Opposite Pol.)	1745.00	V	179	321	2.84	1 / 1	20.06	22.90	0.195	30.00	-7.10
	QPSK (WCP)	1745.00	H	191	312	2.84	1 / 1	20.45	23.29	0.213	30.00	-6.71

Table 7-41. EIRP Data (NR Band n66) – Ant2

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7.8 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

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Test Setup

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

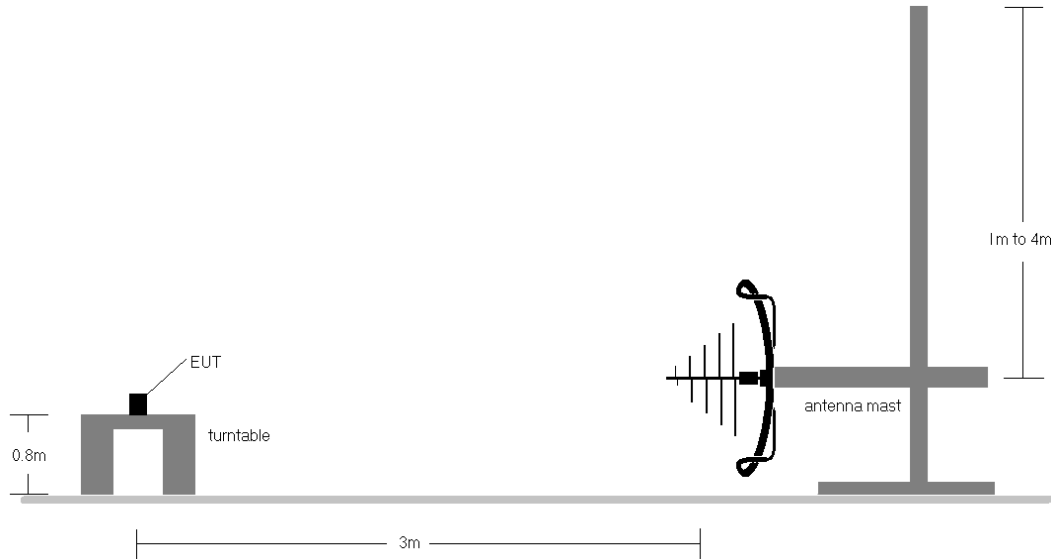


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

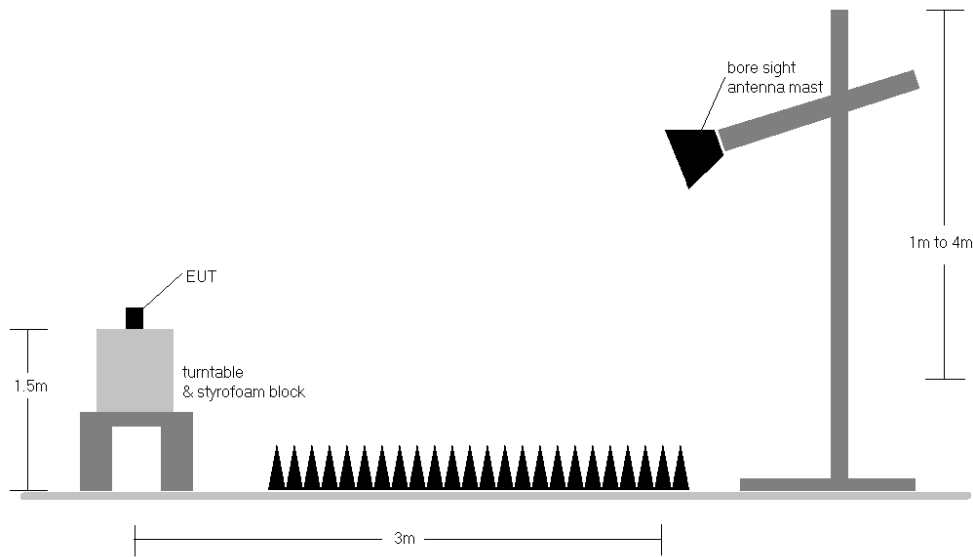


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

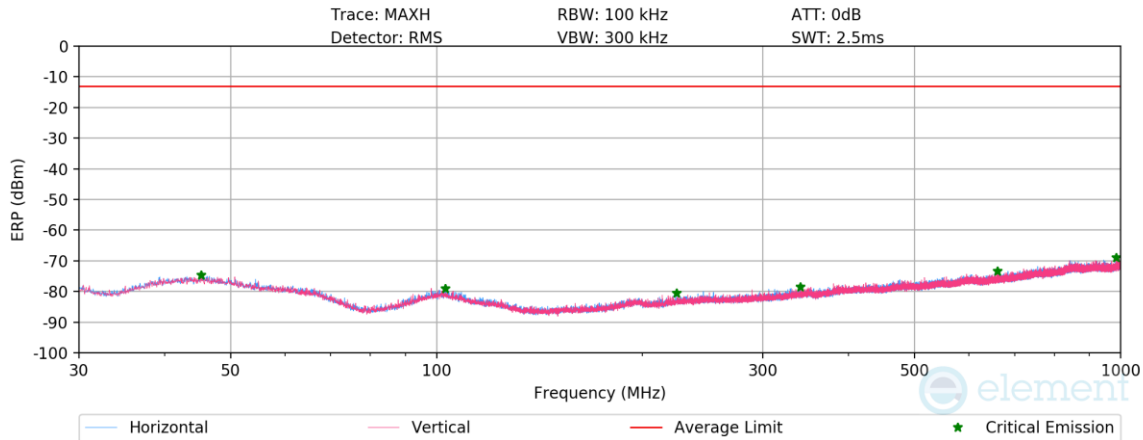
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Test Notes

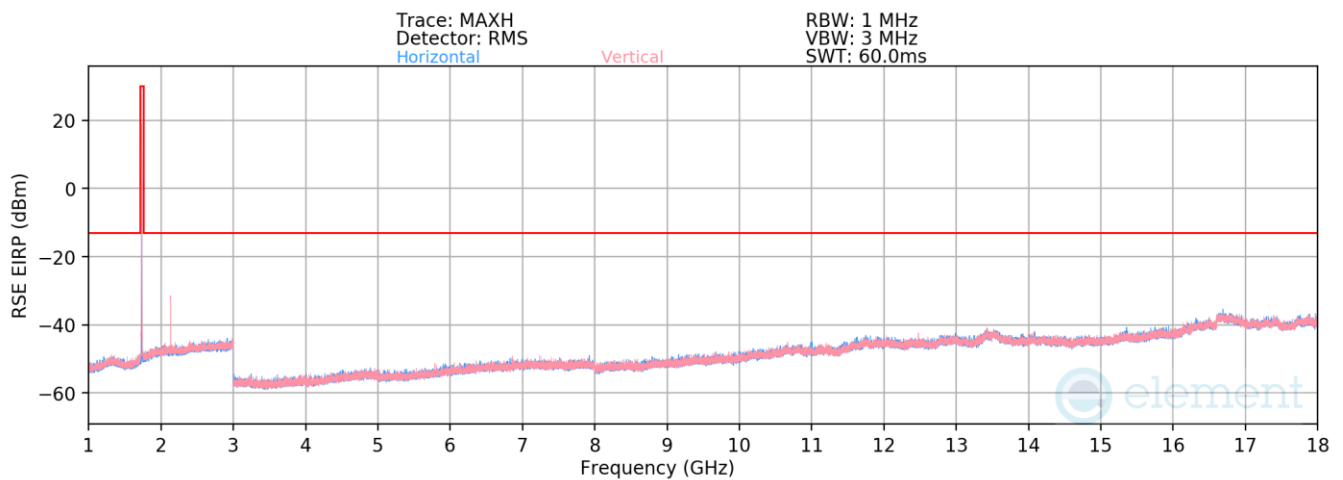
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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.
- 8) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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WCDMA AWS – Ant1



Plot 7-322. Radiated Spurious Plot (WCDMA AWS) – Ant1



Plot 7-323. Radiated Spurious Plot (WCDMA AWS) – Ant1

Channel:	1413
Frequency (MHz):	1732.6
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
45.22	V	200	-	-70.59	-13.31	23.10	-74.65	-13.00	-61.65
102.92	H	200	-	-73.05	-15.18	18.77	-78.99	-13.00	-65.99
224.36	H	200	-	-75.50	-14.22	17.28	-80.48	-13.00	-67.48
340.16	H	200	-	-76.86	-10.79	19.35	-78.41	-13.00	-65.41
660.74	V	200	-	-78.02	-4.58	24.40	-73.36	-13.00	-60.36
985.38	V	200	-	-78.34	0.10	28.76	-69.00	-13.00	-56.00

Table 7-42. Radiated Spurious Data (WCDMA AWS) – Ant1

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Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
3424.8	V	-	-	-80.86	6.30	32.45	-62.81	-13.00	-49.81
5137.2	V	-	-	-82.54	10.35	34.81	-60.45	-13.00	-47.45
6849.6	V	-	-	-82.97	13.28	37.31	-57.94	-13.00	-44.94

7-43. Radiated Spurious Data (WCDMA AWS – Low Channel) – Ant1

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
3465.2	V	-	-	-80.45	6.12	32.67	-62.59	-13.00	-49.59
5197.8	V	-	-	-82.37	10.44	35.07	-60.19	-13.00	-47.19
6930.4	V	-	-	-82.99	13.58	37.59	-57.67	-13.00	-44.67

Table 7-44. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
3505.2	V	-	-	-80.29	6.17	32.88	-62.37	-13.00	-49.37
5257.8	V	-	-	-82.95	11.03	35.08	-60.18	-13.00	-47.18
7010.4	V	-	-	-82.86	13.39	37.53	-57.73	-13.00	-44.73

Table 7-45. Radiated Spurious Data (WCDMA AWS – High Channel) – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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