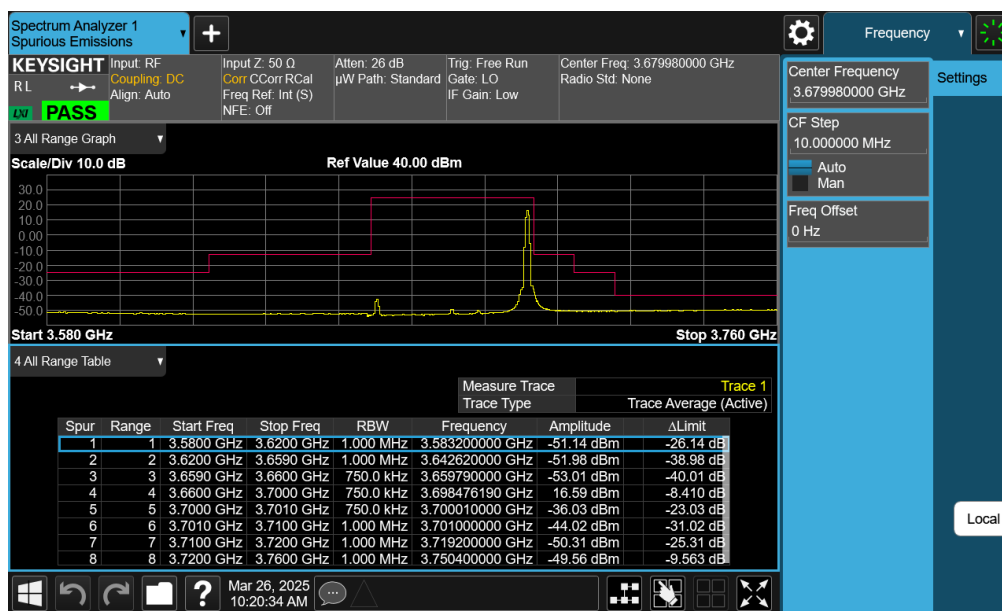
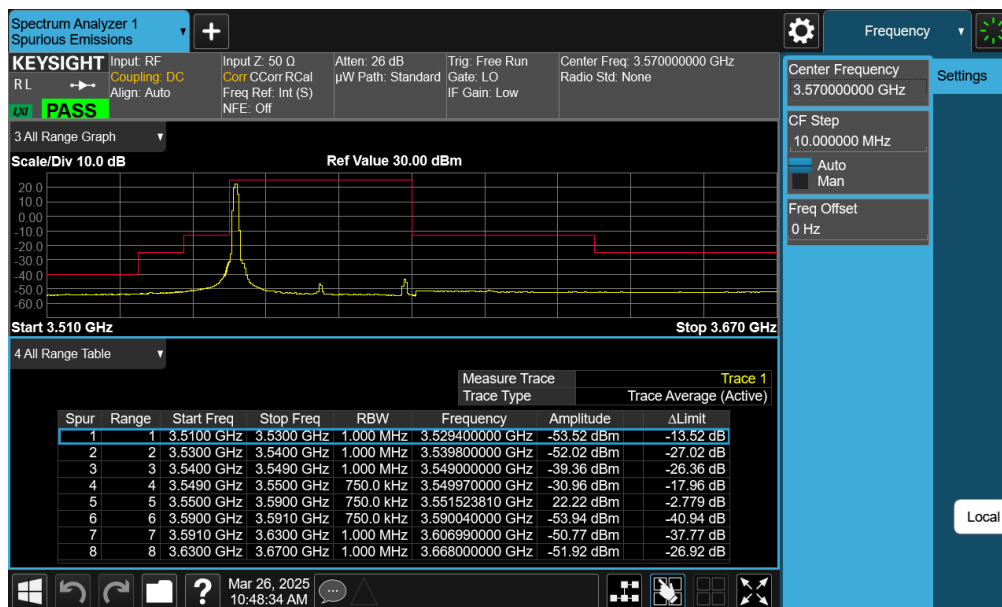




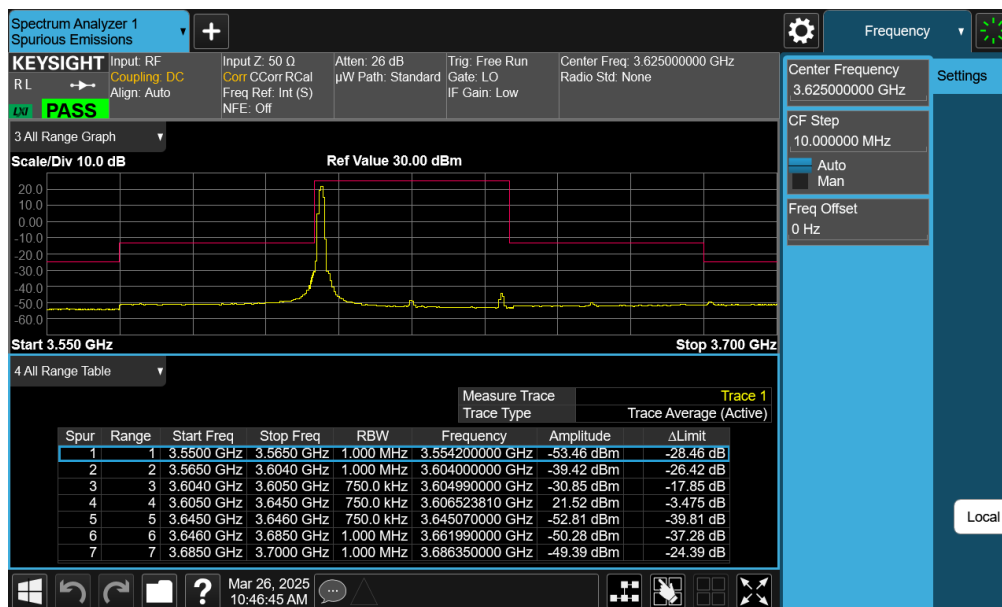
Plot 7-142. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - High Channel - Ant C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant G

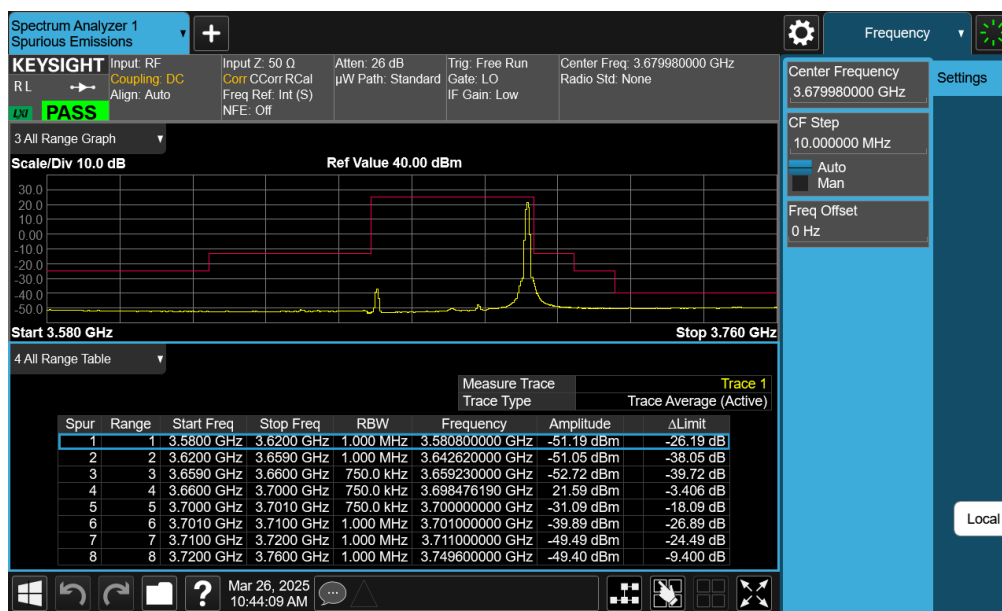


Plot 7-143. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM-QPSK - Low Channel - Ant G)



Plot 7-144. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - Mid Channel - Ant G)

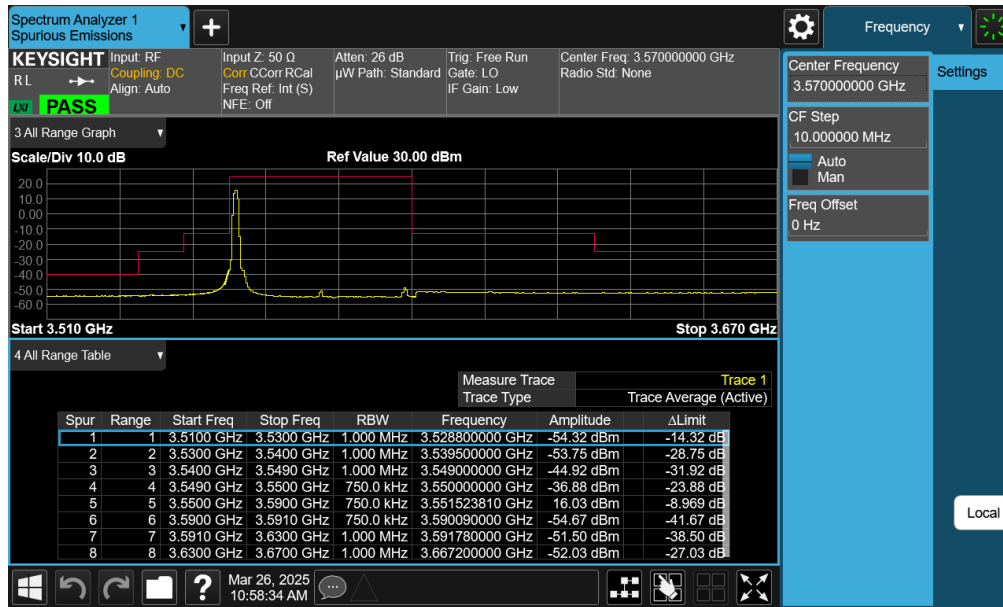
FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 123 of 201



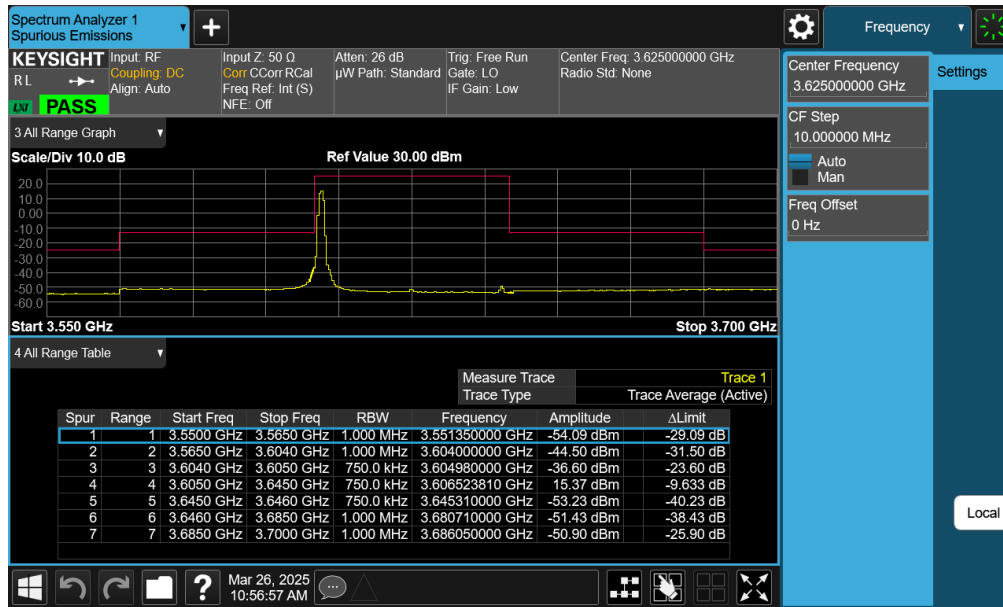
Plot 7-145. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - High Channel - Ant G)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 124 of 201

NR Band n48 – Ant A

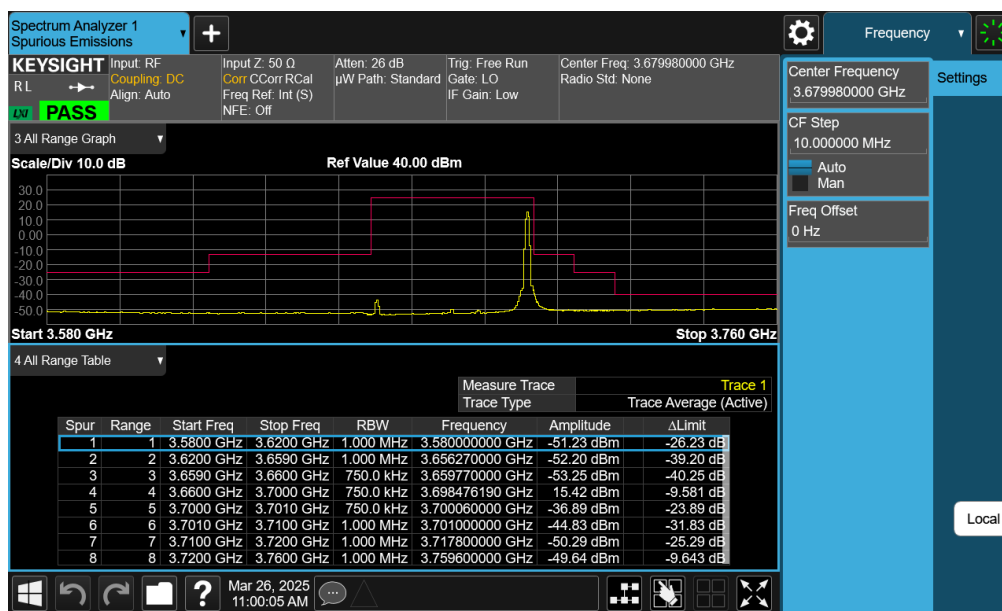


Plot 7-146. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM-QPSK - Low Channel - Ant A)



Plot 7-147. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - Mid Channel - Ant A)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-148. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM-BPSK - High Channel - Ant A)

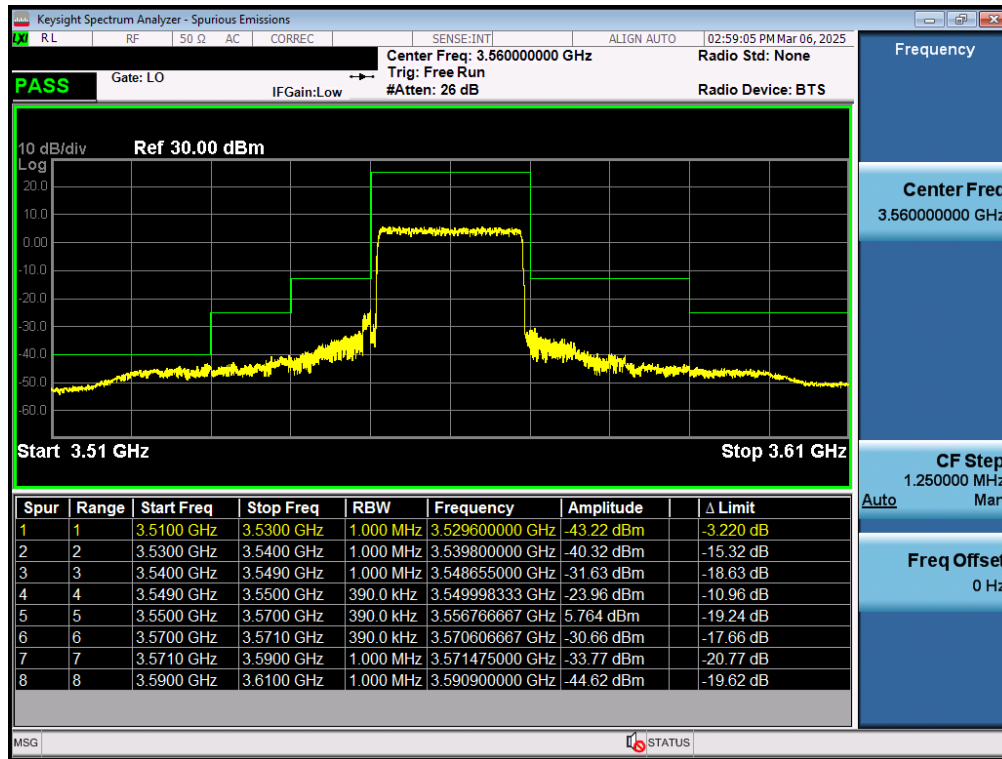
FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 126 of 201

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B48	20MHz	Low	Band Edge	-43.22	-40	-3.22
		Mid	Band Edge	-31.22	-13	-18.22
		High	Band Edge	-44.64	-40	-4.64
	15MHz	Low	Band Edge	-43.64	-40	-3.64
		Mid	Band Edge	-27.26	-13	-14.26
		High	Band Edge	-44.66	-40	-4.66
	10MHz	Low	Band Edge	-50.23	-40	-10.23
		Mid	Band Edge	-30.25	-13	-17.25
		High	Band Edge	-48.20	-40	-8.20
	5MHz	Low	Band Edge	-52.81	-40	-12.81
		Mid	Band Edge	-39.13	-25	-14.13
		High	Band Edge	-50.11	-40	-10.11
ULCA LTE-B48	20+20MHz	Low	Band Edge	-46.91	-40	-6.91
		Mid	Band Edge	-34.97	-13	-21.97
		High	Band Edge	-49.95	-40	-9.95

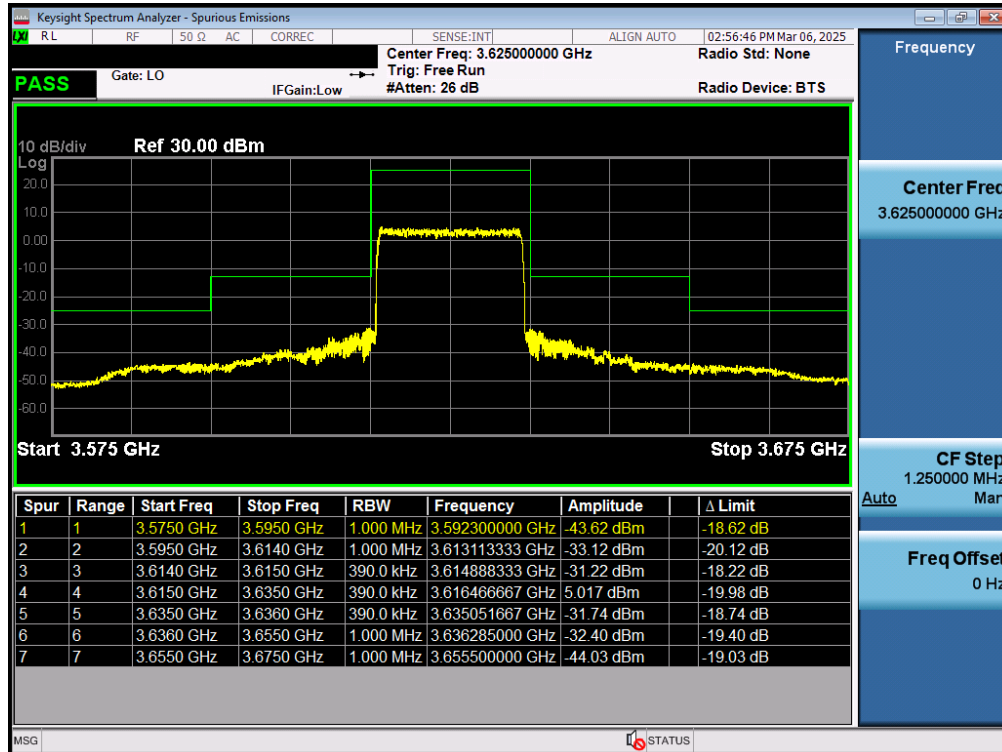
Table 7-39. Conducted Band Edge Test Results – LTE – ANT C

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 48 – ANT C

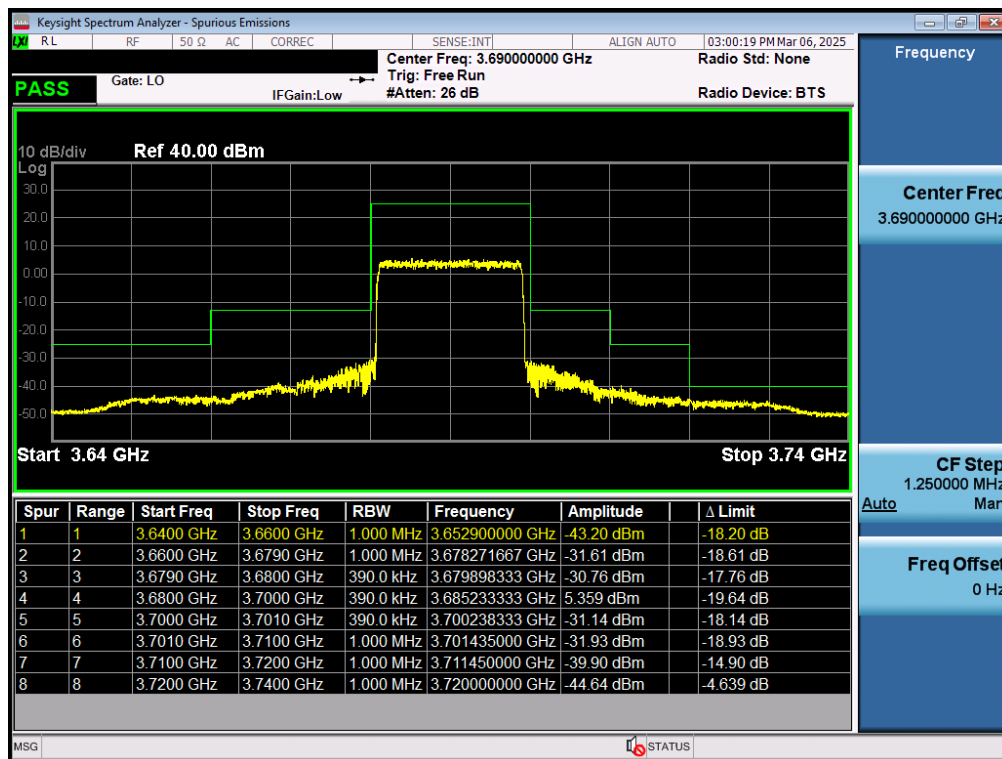


Plot 7-149. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel - ANT C)



Plot 7-150. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - ANT C)

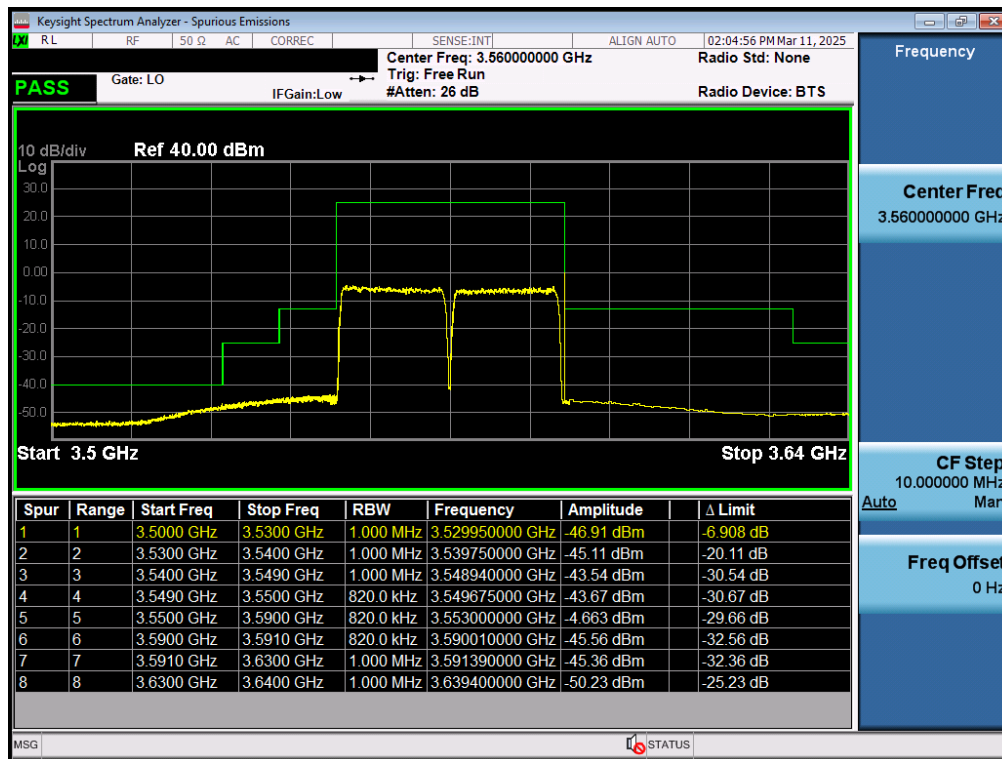
FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 128 of 201



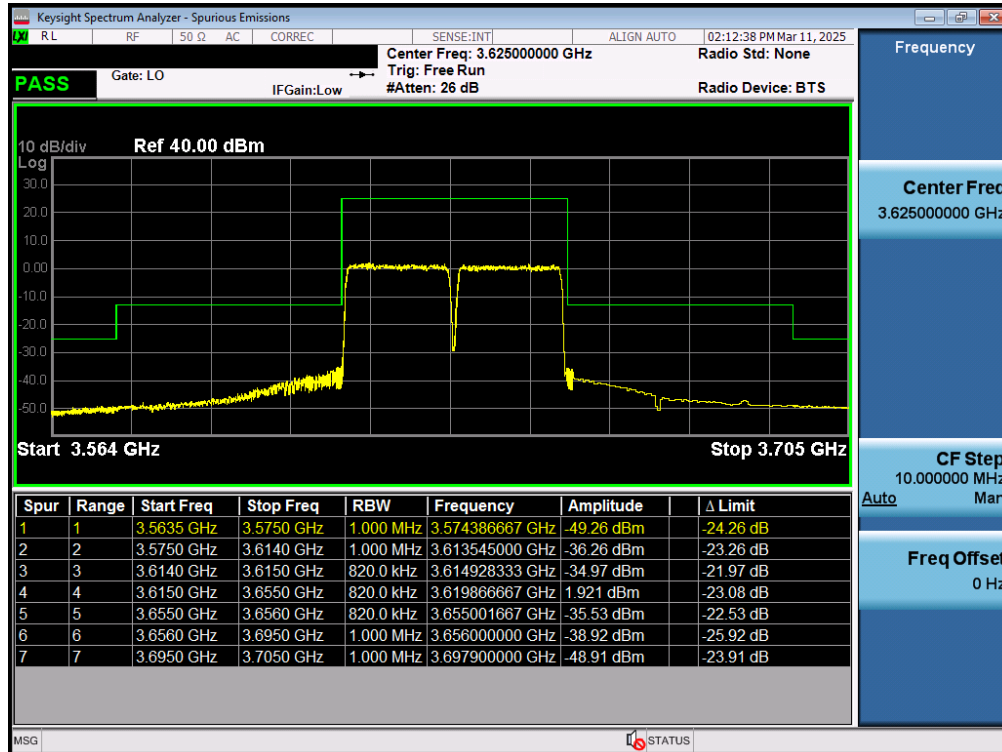
Plot 7-151. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel - ANT C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 129 of 201

ULCA LB48 – ANT C

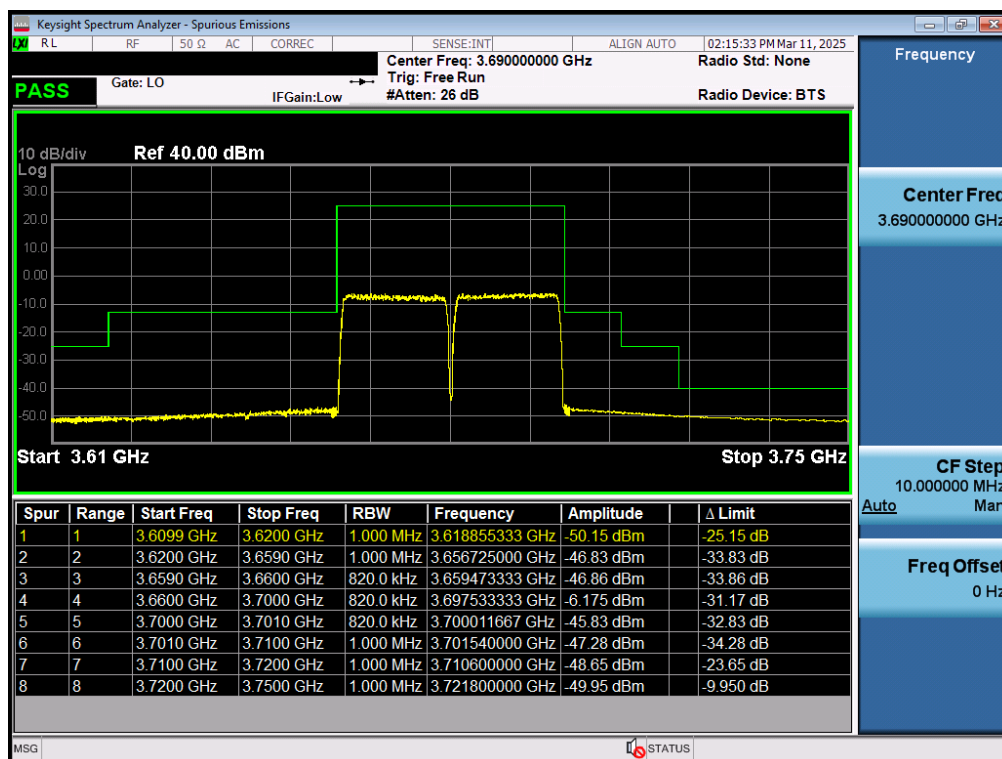


Plot 7-152. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Low Channel - ANT C)



Plot 7-153. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Mid Channel - ANT C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 130 of 201



Plot 7-154. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - High Channel - ANT C)

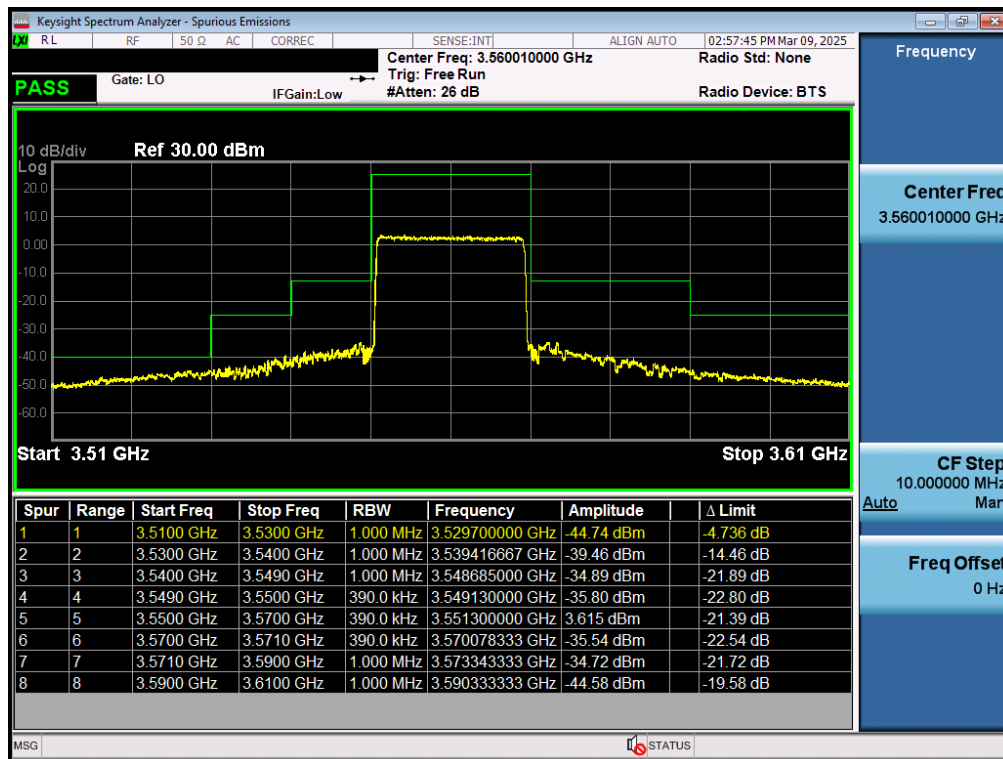
FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 131 of 201

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	Band Edge	-42.89	-40	-2.89
		Mid	Band Edge	-43.22	-25	-18.22
		High	Band Edge	-42.19	-40	-2.19
	30MHz	Low	Band Edge	-43.51	-40	-3.51
		Mid	Band Edge	-40.97	-25	-15.97
		High	Band Edge	-44.34	-40	-4.34
	20MHz	Low	Band Edge	-44.74	-40	-4.74
		Mid	Band Edge	-40.37	-25	-15.37
		High	Band Edge	-42.02	-40	-2.02
	15MHz	Low	Band Edge	-42.24	-40	-2.24
		Mid	Band Edge	-42.31	-25	-17.31
		High	Band Edge	-42.21	-40	-2.21
	10MHz	Low	Band Edge	-47.25	-40	-7.25
		Mid	Band Edge	-39.36	-25	-14.36
		High	Band Edge	-48.47	-40	-8.47

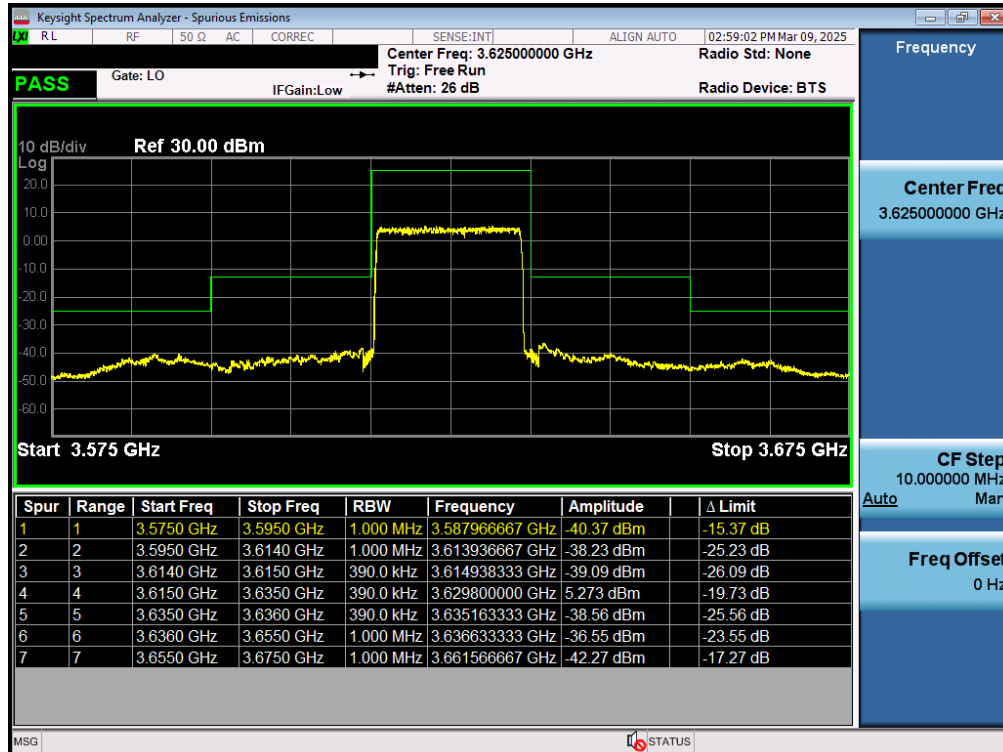
Table 7-40. Conducted Band Edge Test Results – NR Band n48 – Switching ANT C

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 132 of 201

NR Band n48 – Switching ANT C

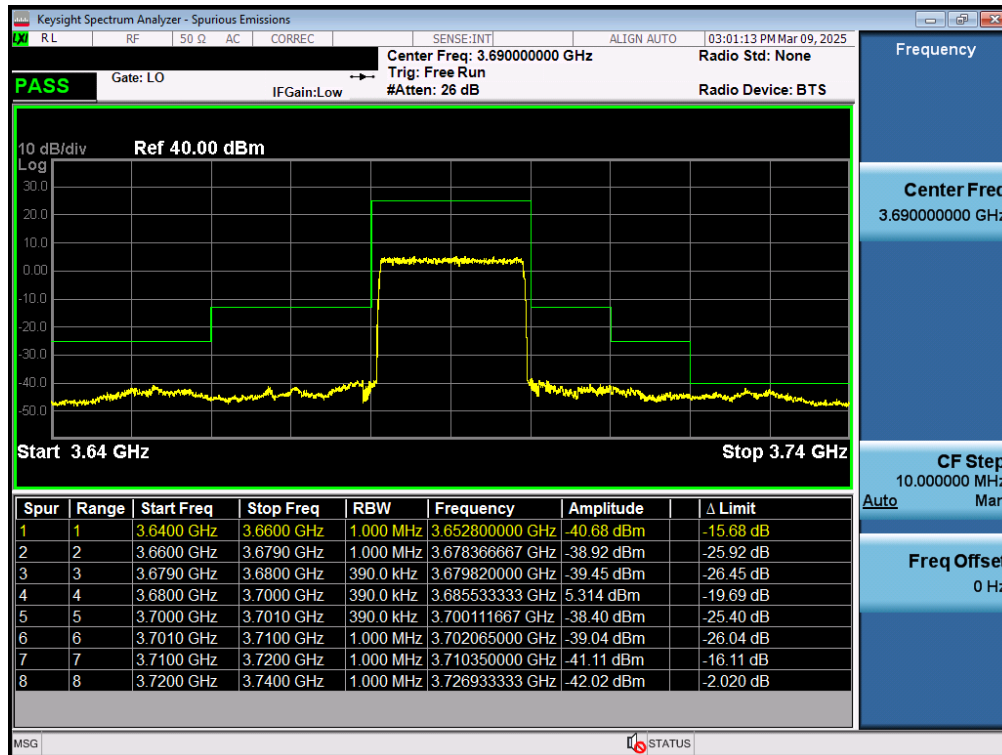


Plot 7-155. Channel Edge Plot (NR Band n48 - 20MHz CP-OFDM-QPSK - Low Channel - Switching ANT C)



Plot 7-156. Channel Edge Plot (NR Band n48 - 20MHz DFT-s-OFDM-BPSK – Mid Channel - Switching ANT C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 133 of 201



Plot 7-157. Channel Edge Plot (NR Band n48 - 20MHz DFT-s-OFDM-BPSK - High Channel - Switching ANT C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 134 of 201

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	Band Edge	-53.48	-40	-13.48
		Mid	Band Edge	-31.13	-13	-18.13
		High	Band Edge	-49.64	-40	-9.64

Table 7-41. Conducted Band Edge Test Results – NR Band n48 – Switching Ant F

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	Band Edge	-53.02	-40	-13.02
		Mid	Band Edge	-29.55	-13	-16.55
		High	Band Edge	-49.56	-40	-9.56

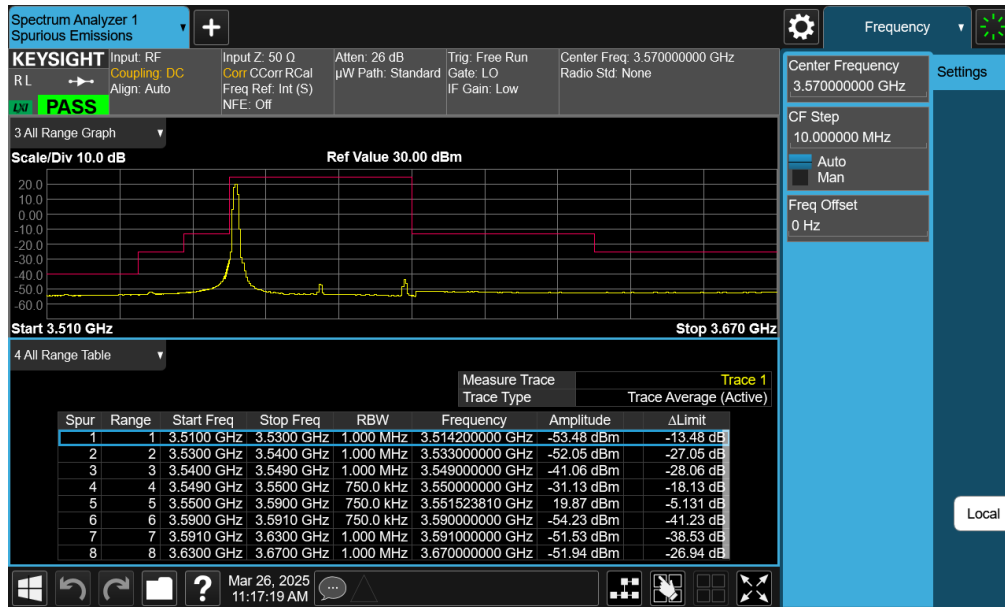
Table 7-42. Conducted Band Edge Test Results – NR Band n48 – Switching Ant A

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	Band Edge	-53.66	-40	-13.66
		Mid	Band Edge	-32.34	-13	-19.34
		High	Band Edge	-49.69	-40	-9.69

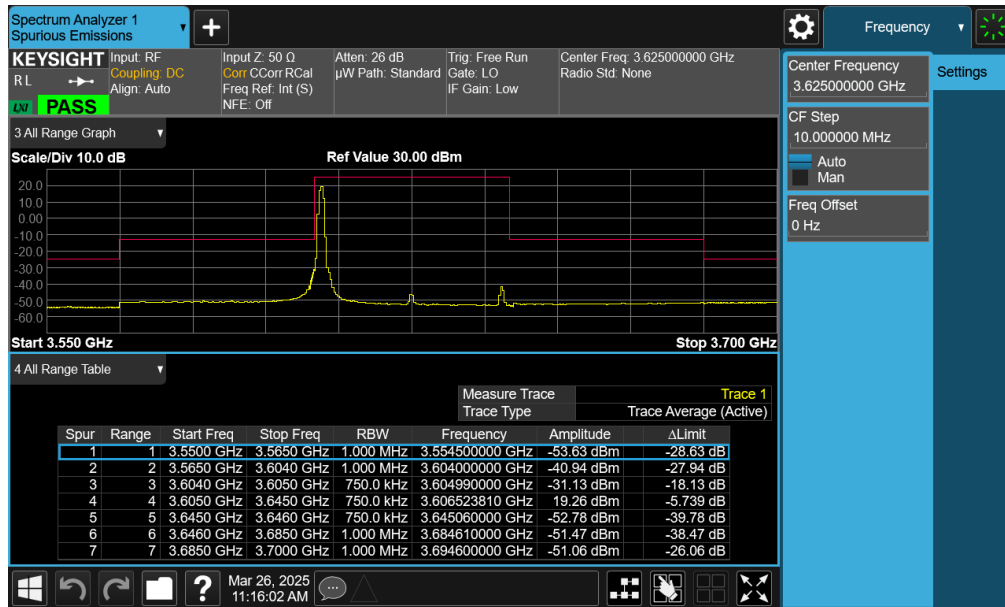
Table 7-43. Conducted Band Edge Test Results – NR Band n48 – Switching Ant G

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Switching ANT F

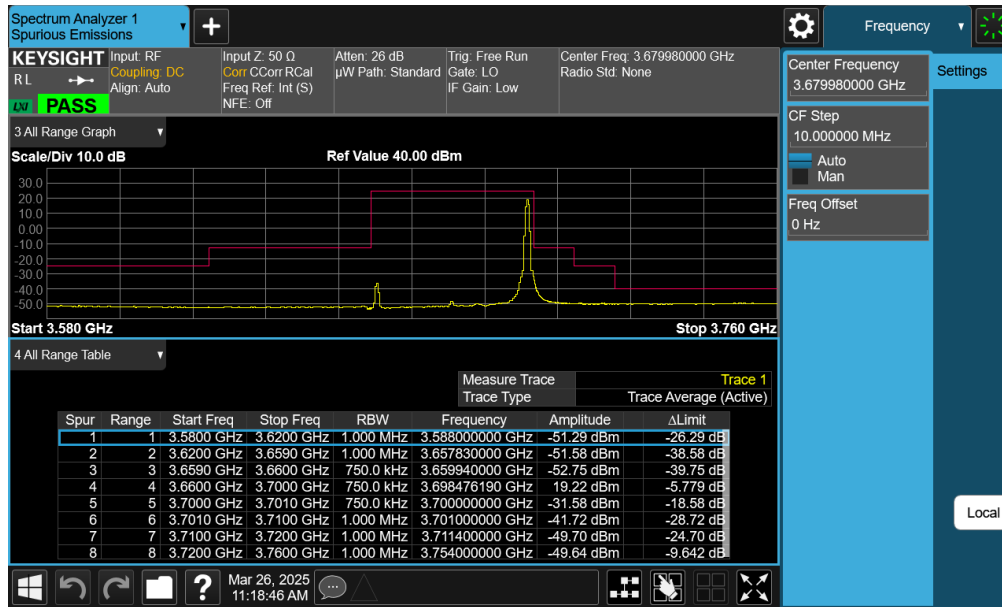


Plot 7-158. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM-QPSK - Low Channel - Switching ANT F)



Plot 7-159. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - Mid Channel - Switching ANT F)

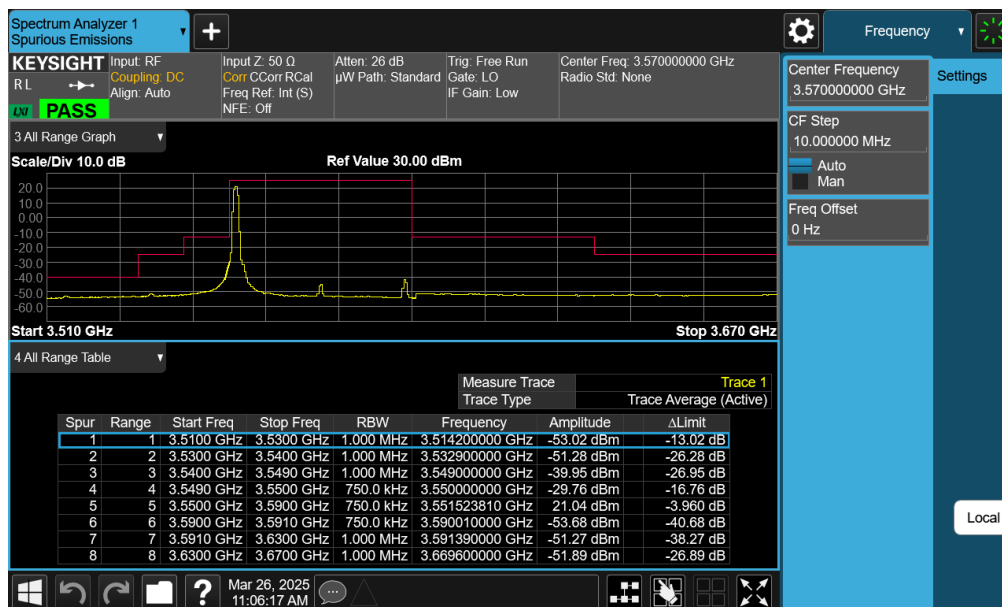
FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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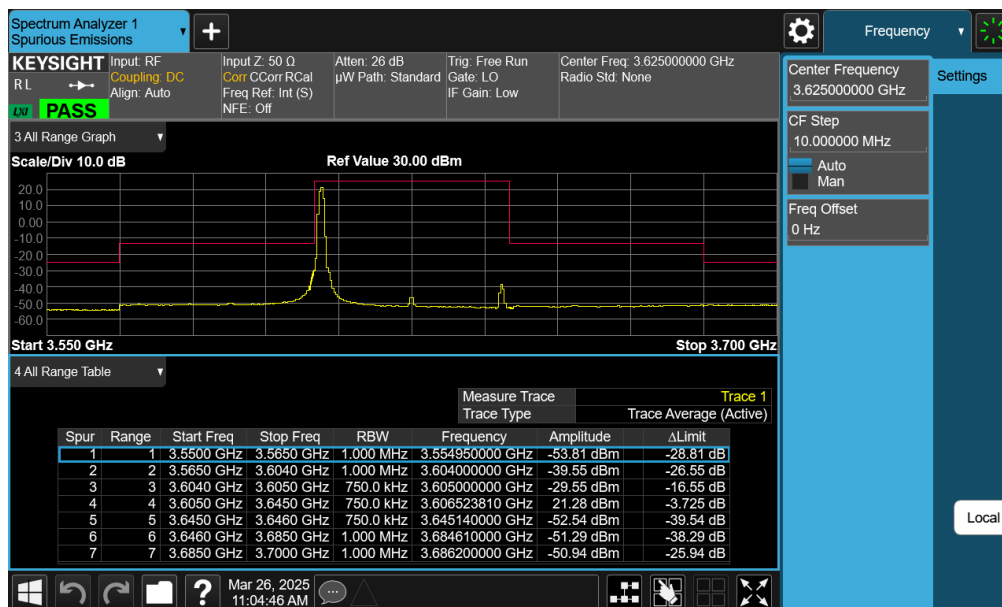
Plot 7-160. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - High Channel - Switching ANT F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Switching ANT A

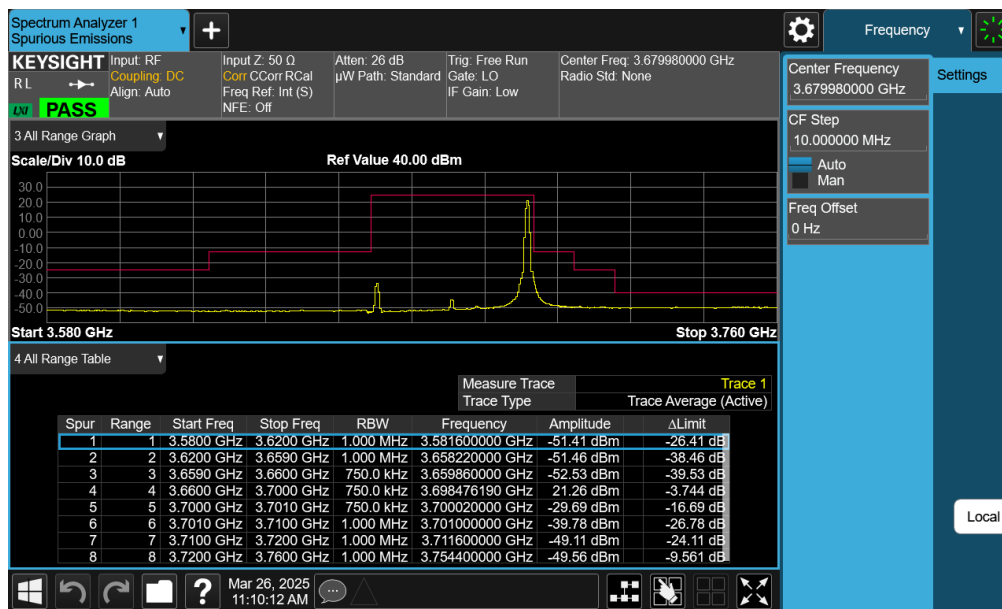


Plot 7-161. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM-QPSK - Low Channel - Switching ANT A)



Plot 7-162. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - Mid Channel - Switching ANT A)

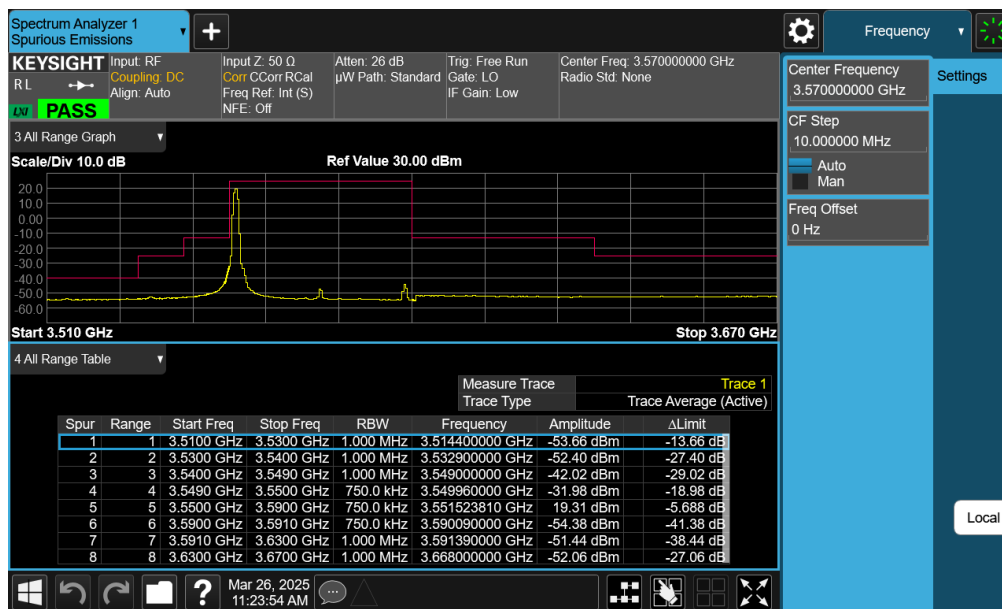
FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 138 of 201



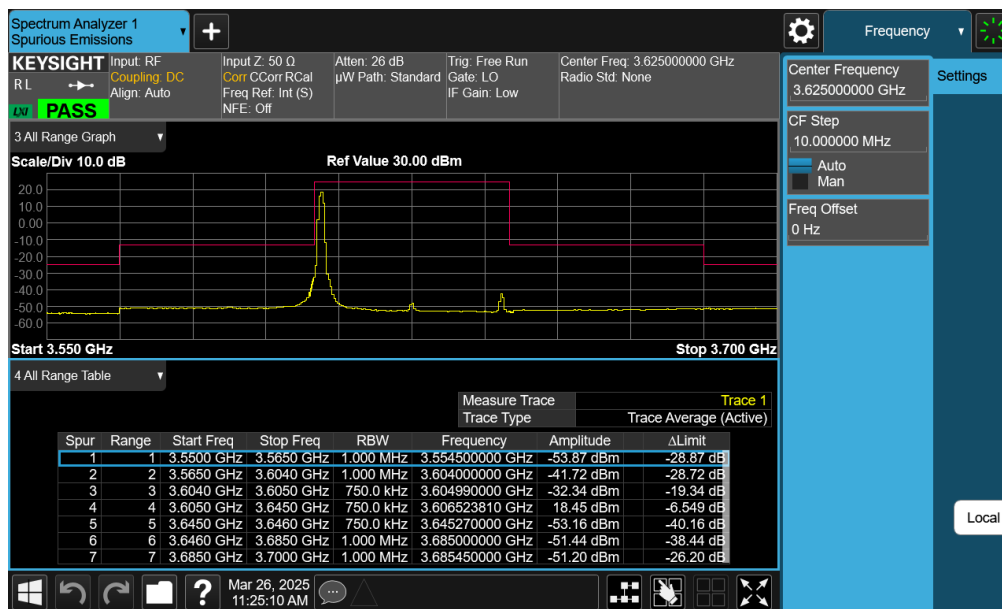
Plot 7-163. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - High Channel - Switching ANT A)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Switching ANT G

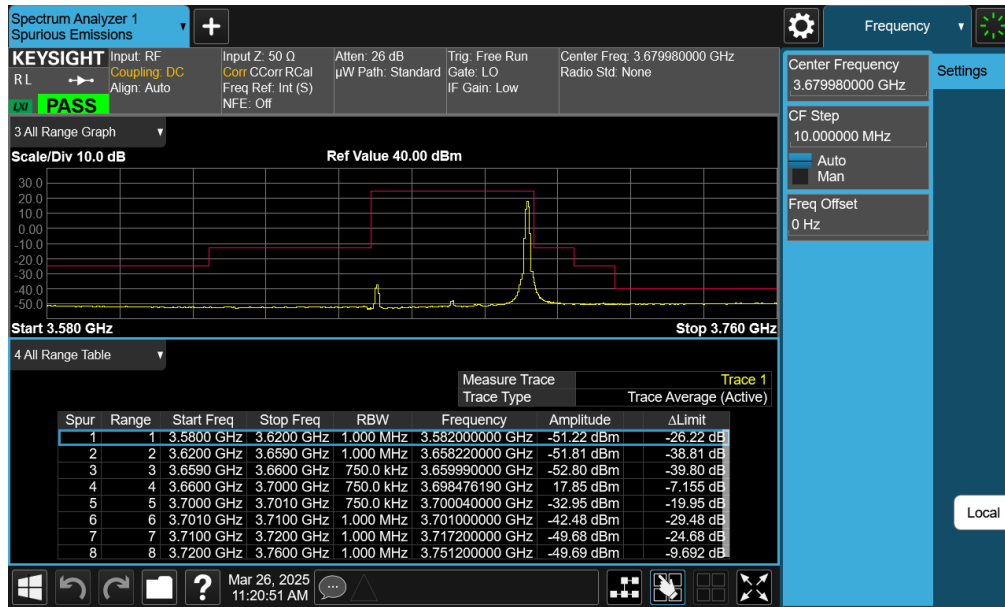


Plot 7-164. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM-QPSK - Low Channel - Switching ANT G)



Plot 7-165. Channel Edge Plot (NR Band n48 - 40MHz CP-OFDM-QPSK - Mid Channel - Switching ANT G)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-166. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM-BPSK - High Channel - Switching ANT G)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6 Radiated Power (EIRP)

Test Overview

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
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". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was set equal to 10MHz. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
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.

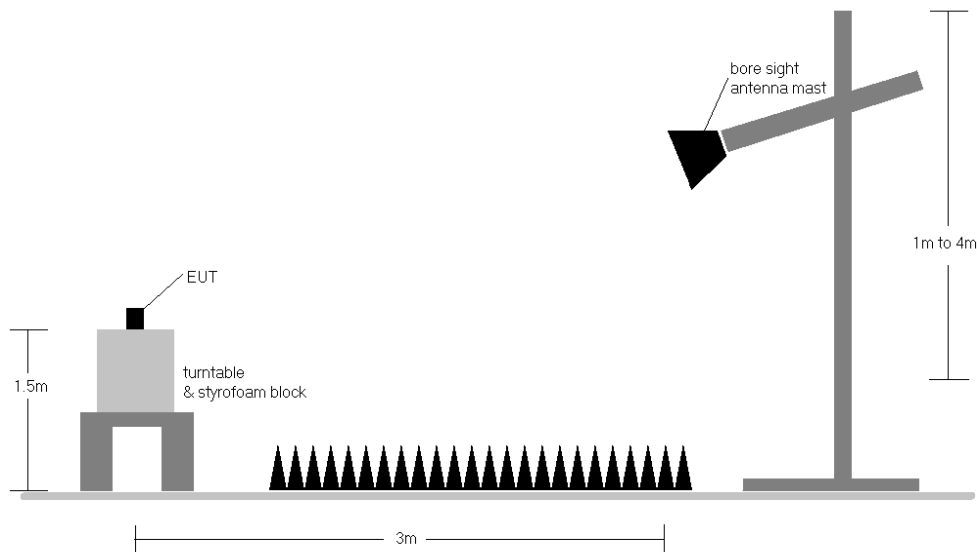


Figure 7-5. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 4) The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz).

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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]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
20 MHz	QPSK	3560.00	H	102	320	6.53	1 / 0	13.85	20.38	0.109	23.00	-2.62
	QPSK	3625.00	H	102	319	6.70	1 / 0	12.92	19.62	0.092	23.00	-3.38
	QPSK	3690.00	H	102	310	6.84	1 / 0	12.60	19.44	0.088	23.00	-3.56
	16-QAM	3560.00	H	102	320	6.53	1 / 0	12.31	18.84	0.077	23.00	-4.16
	16-QAM	3625.00	H	102	319	6.70	1 / 0	11.72	18.42	0.069	23.00	-4.58
15 MHz	QPSK	3690.00	H	102	310	6.84	1 / 0	11.27	18.11	0.065	23.00	-4.89
	QPSK	3557.50	H	102	320	6.53	1 / 1	13.93	20.46	0.111	23.00	-2.54
	QPSK	3625.00	H	102	319	6.70	1 / 1	12.57	19.27	0.085	23.00	-3.73
	QPSK	3692.50	H	102	310	6.84	1 / 36	12.64	19.48	0.089	23.00	-3.52
	16-QAM	3557.50	H	102	320	6.53	1 / 1	11.56	18.10	0.064	23.00	-4.90
10 MHz	16-QAM	3625.00	H	102	319	6.70	1 / 1	11.26	17.96	0.063	23.00	-5.04
	16-QAM	3692.50	H	102	310	6.84	1 / 36	9.66	16.51	0.045	23.00	-6.49
	QPSK	3555.00	H	102	320	6.53	1 / 1	13.87	20.41	0.110	23.00	-2.59
	QPSK	3625.00	H	102	319	6.70	1 / 22	12.75	19.44	0.088	23.00	-3.56
	QPSK	3695.00	H	102	310	6.84	1 / 22	12.78	19.62	0.092	23.00	-3.38
5 MHz	16-QAM	3555.00	H	102	320	6.53	1 / 1	12.19	18.72	0.075	23.00	-4.28
	16-QAM	3625.00	H	102	319	6.70	1 / 22	11.98	18.68	0.074	23.00	-4.32
	16-QAM	3695.00	H	102	310	6.84	1 / 22	11.69	18.53	0.071	23.00	-4.47
	QPSK	3552.50	H	102	320	6.53	1 / 5	13.35	19.89	0.097	23.00	-3.11
	QPSK	3625.00	H	102	319	6.70	1 / 5	13.16	19.86	0.097	23.00	-3.14
20 MHz	QPSK	3697.50	H	102	310	6.84	1 / 5	12.91	19.75	0.095	23.00	-3.25
	16-QAM	3552.50	H	102	320	6.53	1 / 5	11.51	18.04	0.064	23.00	-4.96
	16-QAM	3625.00	H	102	319	6.70	1 / 5	11.76	18.46	0.070	23.00	-4.54
	16-QAM	3697.50	H	102	310	6.84	1 / 5	11.73	18.57	0.072	23.00	-4.43
	QPSK (Opposite Pol.)	3560.00	V	176	275	6.68	1 / 0	10.73	17.41	0.055	23.00	-5.59
	QPSK (WCP)	3560.00	H	103	348	6.70	1 / 0	12.97	19.67	0.093	23.00	-3.33

Table 7-44. EIRP Data (LTE Band 48 – Ant F)

Bandwidth	Modulation	PCC			SCC			Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
		Bandwidth [MHz]	Frequency [MHz]	RB / Offset	Bandwidth [MHz]	Frequency [MHz]	RB / Offset									
40 MHz	QPSK	20	3560.0	1 / 99	20	3579.8	1 / 0	H	109	61	9.69	8.49	18.18	0.066	23.00	-4.82
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	103	52	9.67	10.80	20.47	0.112	23.00	-2.53
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	100	59	9.66	11.23	20.89	0.123	23.00	-2.11
	16-QAM	20	3560.0	1 / 99	20	3579.8	1 / 0	H	109	61	9.69	7.50	17.19	0.052	23.00	-5.81
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	103	52	9.67	9.89	19.56	0.090	23.00	-3.44
35 MHz	QPSK	20	3690.0	1 / 0	20	3670.2	1 / 99	H	100	59	9.66	10.53	20.19	0.104	23.00	-2.81
		20	3557.5	1 / 99	15	3571.1	1 / 0	H	109	61	9.69	8.37	18.07	0.064	23.00	-4.93
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	103	52	9.67	10.00	19.68	0.093	23.00	-3.32
	16-QAM	20	3692.5	1 / 0	15	3672.9	1 / 74	H	100	59	9.65	10.90	20.55	0.114	23.00	-2.45
		20	3557.5	1 / 99	15	3571.1	1 / 0	H	109	61	9.69	7.20	16.89	0.049	23.00	-6.11
30 MHz	QPSK	20	3625.0	1 / 99	15	3642.1	1 / 0	H	103	52	9.67	9.56	19.24	0.084	23.00	-3.76
		20	3692.5	1 / 0	15	3672.9	1 / 74	H	100	59	9.65	10.58	20.23	0.106	23.00	-2.77
		20	3555.0	1 / 99	10	3574.4	1 / 0	H	109	61	9.69	9.27	18.96	0.079	23.00	-4.04
	16-QAM	20	3625.0	1 / 99	10	3639.4	1 / 0	H	103	52	9.67	10.87	20.55	0.113	23.00	-2.45
		20	3695.0	1 / 0	10	3678.3	1 / 49	H	100	59	9.65	11.16	20.81	0.121	23.00	-2.19
25 MHz	QPSK	20	3555.0	1 / 99	10	3574.4	1 / 0	H	109	61	9.69	8.07	17.76	0.060	23.00	-5.24
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	103	52	9.67	8.72	18.40	0.069	23.00	-4.60
		20	3695.0	1 / 0	10	3678.3	1 / 49	H	100	59	9.65	10.09	19.74	0.094	23.00	-3.26
	16-QAM	20	3552.5	1 / 99	5	3571.7	1 / 0	H	109	61	9.70	8.92	18.61	0.073	23.00	-4.39
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	103	52	9.67	10.66	20.34	0.108	23.00	-2.66
	QPSK	20	3697.5	1 / 0	5	3678.3	1 / 24	H	100	59	9.65	10.40	20.06	0.101	23.00	-2.94
		20	3552.5	1 / 99	5	3571.7	1 / 0	H	109	61	9.70	8.00	17.69	0.059	23.00	-5.31
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	103	52	9.67	9.01	18.68	0.074	23.00	-4.32
	16-QAM	20	3697.5	1 / 0	5	3678.3	1 / 24	H	100	59	9.65	9.68	19.34	0.086	23.00	-3.66

Table 7-45. EIRP Data (ULCA LTE Band 48 – Ant F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 144 of 201

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/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	H	102	319	6.53	1 / 104	14.69	21.22	0.133	23.00	-1.78
	$\pi/2$ BPSK	3625.00	H	112	305	6.70	1 / 1	14.27	20.97	0.125	23.00	-2.03
	$\pi/2$ BPSK	3680.00	H	102	309	6.84	1 / 1	13.52	20.36	0.109	23.00	-2.64
	QPSK	3570.00	H	102	319	6.53	1 / 104	14.62	21.15	0.130	23.00	-1.85
	QPSK	3625.00	H	112	313	6.70	1 / 1	14.41	21.11	0.129	23.00	-1.89
	QPSK	3680.00	H	102	309	6.84	1 / 1	13.45	20.29	0.107	23.00	-2.71
	16-QAM	3570.00	H	102	319	6.53	1 / 104	14.06	20.59	0.115	23.00	-2.41
	16-QAM	3625.00	H	112	313	6.70	1 / 1	13.82	20.52	0.113	23.00	-2.48
30 MHz	16-QAM	3680.00	H	102	309	6.84	1 / 1	13.02	19.86	0.097	23.00	-3.14
	$\pi/2$ BPSK	3565.00	H	102	319	6.52	1 / 76	14.57	21.09	0.128	23.00	-1.91
	$\pi/2$ BPSK	3625.00	H	112	313	6.70	1 / 76	14.77	21.47	0.140	23.00	-1.53
	$\pi/2$ BPSK	3685.00	H	102	309	6.85	1 / 76	13.38	20.23	0.106	23.00	-2.77
	QPSK	3565.00	H	102	319	6.52	1 / 1	14.53	21.06	0.128	23.00	-1.94
	QPSK	3625.00	H	112	313	6.70	1 / 76	14.67	21.37	0.137	23.00	-1.63
	QPSK	3685.00	H	102	309	6.85	1 / 76	13.47	20.32	0.108	23.00	-2.68
	16-QAM	3565.00	H	102	319	6.52	1 / 1	13.88	20.41	0.110	23.00	-2.59
20 MHz	16-QAM	3625.00	H	112	313	6.70	1 / 76	14.35	21.05	0.127	23.00	-1.95
	16-QAM	3685.00	H	102	309	6.85	1 / 76	13.11	19.96	0.099	23.00	-3.04
	$\pi/2$ BPSK	3560.00	H	102	319	6.51	1 / 1	15.03	21.54	0.143	23.00	-1.46
	$\pi/2$ BPSK	3625.00	H	112	313	6.70	1 / 49	14.51	21.21	0.132	23.00	-1.79
	$\pi/2$ BPSK	3690.00	H	102	309	6.86	1 / 49	13.30	20.15	0.104	23.00	-2.85
	QPSK	3560.00	H	102	319	6.51	1 / 1	14.98	21.49	0.141	23.00	-1.51
	QPSK	3625.00	H	112	313	6.70	1 / 49	14.55	21.25	0.133	23.00	-1.75
	QPSK	3690.00	H	102	309	6.86	1 / 49	13.45	20.31	0.107	23.00	-2.69
15 MHz	16-QAM	3560.00	H	102	319	6.51	1 / 1	14.42	20.93	0.124	23.00	-2.07
	16-QAM	3625.00	H	112	313	6.70	1 / 49	14.08	20.78	0.120	23.00	-2.22
	16-QAM	3690.00	H	102	309	6.86	1 / 49	13.17	20.03	0.101	23.00	-2.97
	$\pi/2$ BPSK	3557.50	H	102	319	6.51	1 / 1	14.92	21.43	0.139	23.00	-1.57
	$\pi/2$ BPSK	3625.00	H	112	313	6.70	1 / 36	14.52	21.22	0.132	23.00	-1.78
	$\pi/2$ BPSK	3692.50	H	102	309	6.86	1 / 1	13.36	20.22	0.105	23.00	-2.78
	QPSK	3557.50	H	102	319	6.51	1 / 1	15.02	21.53	0.142	23.00	-1.47
	QPSK	3625.00	H	112	313	6.70	1 / 1	14.61	21.30	0.135	23.00	-1.70
10 MHz	QPSK	3692.50	H	102	309	6.86	1 / 1	13.53	20.39	0.109	23.00	-2.61
	16-QAM	3557.50	H	102	319	6.51	1 / 1	14.24	20.74	0.119	23.00	-2.26
	16-QAM	3625.00	H	112	313	6.70	1 / 1	13.97	20.67	0.117	23.00	-2.33
	16-QAM	3692.50	H	102	309	6.86	1 / 1	13.02	19.88	0.097	23.00	-3.12
	$\pi/2$ BPSK	3555.00	H	102	319	6.50	1 / 1	15.21	21.71	0.148	23.00	-1.29
	$\pi/2$ BPSK	3625.00	H	112	313	6.70	1 / 22	14.63	21.33	0.136	23.00	-1.67
	$\pi/2$ BPSK	3695.00	H	102	309	6.86	1 / 1	13.46	20.32	0.108	23.00	-2.68
	QPSK	3555.00	H	102	319	6.50	1 / 1	15.11	21.61	0.145	23.00	-1.39
40 MHz	QPSK	3625.00	H	112	313	6.70	1 / 1	14.75	21.45	0.140	23.00	-1.55
	QPSK	3695.00	H	102	309	6.86	1 / 12	13.54	20.41	0.110	23.00	-2.59
	16-QAM	3555.00	H	102	319	6.50	1 / 1	14.58	21.08	0.128	23.00	-1.92
	16-QAM	3625.00	H	112	313	6.70	1 / 1	13.80	20.50	0.112	23.00	-2.50
	16-QAM	3695.00	H	102	309	6.86	1 / 22	13.47	20.34	0.108	23.00	-2.66
	QPSK (CP-OFDM)	3570.00	H	102	313	6.53	1 / 104	13.82	20.35	0.108	23.00	-2.65
	QPSK (Opposite Pol.)	3570.00	V	176	275	6.60	1 / 53	11.84	18.44	0.070	23.00	-4.56
	QPSK (WCP)	3570.00	H	103	348	6.53	1 / 53	14.56	21.09	0.128	23.00	-1.91

Table 7-46. EIRP Data (NR Band n48 – Ant F)

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/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	V	112	123	6.60	1 / 104	8.14	14.74	0.030	23.00	-8.26
	$\pi/2$ BPSK	3625.00	V	102	111	6.68	1 / 1	6.79	13.47	0.022	23.00	-9.53
	$\pi/2$ BPSK	3680.00	V	119	132	6.94	1 / 53	7.39	14.33	0.027	23.00	-8.67
	QPSK	3570.00	V	112	123	6.60	1 / 104	8.02	14.62	0.029	23.00	-8.38
	QPSK	3625.00	V	102	111	6.68	1 / 1	6.61	13.29	0.021	23.00	-9.71
	QPSK	3680.00	V	119	132	6.94	1 / 53	7.20	14.14	0.026	23.00	-8.86
	16-QAM	3570.00	V	112	123	6.60	1 / 104	7.44	14.04	0.025	23.00	-8.96
	16-QAM	3625.00	V	102	111	6.68	1 / 1	6.11	12.79	0.019	23.00	-10.21
	16-QAM	3680.00	V	119	132	6.94	1 / 53	6.56	13.50	0.022	23.00	-9.50

Table 7-47. EIRP Data (NR Band n48 – Ant C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 145 of 201

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/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	H	108	218	6.53	1 / 104	11.66	18.19	0.066	23.00	-4.81
	$\pi/2$ BPSK	3625.00	H	102	220	6.70	1 / 53	11.99	18.69	0.074	23.00	-4.31
	$\pi/2$ BPSK	3680.00	H	102	219	6.84	1 / 1	11.63	18.47	0.070	23.00	-4.53
	QPSK	3570.00	H	108	218	6.53	1 / 104	11.61	18.14	0.065	23.00	-4.86
	QPSK	3625.00	H	102	220	6.70	1 / 53	11.85	18.55	0.072	23.00	-4.45
	QPSK	3680.00	H	102	219	6.84	1 / 1	11.57	18.41	0.069	23.00	-4.59
	16-QAM	3570.00	H	108	218	6.53	1 / 104	10.89	17.42	0.055	23.00	-5.58
	16-QAM	3625.00	H	102	220	6.70	1 / 53	11.28	17.98	0.063	23.00	-5.02
	16-QAM	3680.00	H	102	219	6.84	1 / 1	10.89	17.73	0.059	23.00	-5.27

Table 7-48. EIRP Data (NR Band n48 – Ant G)

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/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	H	105	136	6.53	1 / 104	4.38	10.91	0.012	23.00	-12.09
	$\pi/2$ BPSK	3625.00	H	114	132	6.70	1 / 1	2.15	8.85	0.008	23.00	-14.15
	$\pi/2$ BPSK	3680.00	H	120	132	6.84	1 / 53	5.22	12.06	0.016	23.00	-10.94
	QPSK	3570.00	H	105	136	6.53	1 / 104	4.31	10.84	0.012	23.00	-12.16
	QPSK	3625.00	H	114	132	6.70	1 / 1	2.10	8.80	0.008	23.00	-14.20
	QPSK	3680.00	H	120	132	6.84	1 / 53	5.05	11.89	0.015	23.00	-11.11
	16-QAM	3570.00	H	105	136	6.53	1 / 104	3.66	10.19	0.010	23.00	-12.81
	16-QAM	3625.00	H	114	132	6.70	1 / 1	1.41	8.11	0.006	23.00	-14.89
	16-QAM	3680.00	H	120	132	6.84	1 / 53	4.52	11.36	0.014	23.00	-11.64

Table 7-49. EIRP Data (NR Band n48 – Ant A)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-14.A3L	Test Dates: 2/24/2025 - 4/28/2025	EUT Type: Portable Handset	Page 146 of 201

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/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
20 MHz	QPSK	3560.00	H	100	127	9.69	100 / 0	10.39	20.08	0.102	23.00	-2.92
	QPSK	3625.00	H	103	125	9.67	100 / 0	10.52	20.19	0.105	23.00	-2.81
	QPSK	3690.00	H	100	123	9.66	1 / 50	11.74	21.40	0.138	23.00	-1.60
	16-QAM	3560.00	H	100	127	9.69	100 / 0	9.44	19.13	0.082	23.00	-3.87
	16-QAM	3625.00	H	103	125	9.67	100 / 0	9.55	19.22	0.084	23.00	-3.78
	16-QAM	3690.00	H	100	123	9.66	1 / 50	10.76	20.42	0.110	23.00	-2.58
15 MHz	QPSK	3557.50	H	100	127	9.69	1 / 1	10.68	20.37	0.109	23.00	-2.63
	QPSK	3625.00	H	103	125	9.67	1 / 25	10.73	20.40	0.110	23.00	-2.60
	QPSK	3692.50	H	100	123	9.65	1 / 25	11.99	21.64	0.146	23.00	-1.36
	16-QAM	3557.50	H	100	127	9.69	1 / 1	9.53	19.22	0.084	23.00	-3.78
	16-QAM	3625.00	H	103	125	9.67	1 / 25	9.84	19.51	0.089	23.00	-3.49
	16-QAM	3692.50	H	100	123	9.65	1 / 25	10.44	20.10	0.102	23.00	-2.90
10 MHz	QPSK	3555.00	H	100	127	9.69	1 / 1	10.84	20.53	0.113	23.00	-2.47
	QPSK	3625.00	H	103	125	9.67	1 / 49	10.81	20.48	0.112	23.00	-2.52
	QPSK	3695.00	H	100	123	9.65	1 / 49	11.62	21.28	0.134	23.00	-1.72
	16-QAM	3555.00	H	100	127	9.69	1 / 1	9.54	19.23	0.084	23.00	-3.77
	16-QAM	3625.00	H	103	125	9.67	1 / 49	10.49	20.17	0.104	23.00	-2.83
	16-QAM	3695.00	H	100	123	9.65	1 / 49	11.11	20.76	0.119	23.00	-2.24
5 MHz	QPSK	3552.50	H	100	127	9.70	1 / 1	10.51	20.21	0.105	23.00	-2.79
	QPSK	3625.00	H	103	125	9.67	1 / 1	10.41	20.08	0.102	23.00	-2.92
	QPSK	3697.50	H	100	123	9.65	1 / 1	12.08	21.74	0.149	23.00	-1.26
	16-QAM	3552.50	H	100	127	9.70	1 / 1	9.25	18.95	0.078	23.00	-4.05
	16-QAM	3625.00	H	103	125	9.67	1 / 1	9.22	18.89	0.077	23.00	-4.11
	16-QAM	3697.50	H	100	123	9.65	1 / 1	11.21	20.86	0.122	23.00	-2.14
20 MHz	QPSK (Opposite Pol.)	3690.00	V	152	294	9.66	1 / 99	8.80	18.46	0.070	23.00	-4.54
	QPSK (WCP)	3690.00	H	102	125	9.66	1 / 50	11.20	20.86	0.122	23.00	-2.14

Table 7-50. EIRP Data (LTE Band 48 – Ant C)

Bandwidth	Modulation	PCC			SCC			Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
		Bandwidth [MHz]	Frequency [MHz]	RB / Offset	Bandwidth [MHz]	Frequency [MHz]	RB / Offset									
40 MHz	QPSK	20	3560.0	1 / 99	20	3579.8	1 / 0	H	100	118	9.69	7.94	17.63	0.058	23.00	-5.37
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	125	128	9.67	9.01	18.68	0.074	23.00	-4.32
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	117	121	9.66	10.52	20.18	0.104	23.00	-2.82
	16-QAM	20	3560.0	1 / 99	20	3579.8	1 / 0	H	100	118	9.69	7.07	16.76	0.047	23.00	-6.24
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	125	128	9.67	8.03	17.70	0.059	23.00	-5.30
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	117	121	9.66	9.54	19.20	0.083	23.00	-3.80
35 MHz	QPSK	20	3557.5	1 / 99	15	3577.1	1 / 0	H	100	118	9.69	7.75	17.44	0.055	23.00	-5.56
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	125	128	9.67	8.96	18.64	0.073	23.00	-4.36
		20	3692.5	1 / 0	15	3672.9	1 / 74	H	117	121	9.65	10.43	20.09	0.102	23.00	-2.91
	16-QAM	20	3557.5	1 / 99	15	3577.1	1 / 0	H	100	118	9.69	7.12	16.82	0.048	23.00	-6.18
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	125	128	9.67	8.22	17.90	0.062	23.00	-5.10
		20	3692.5	1 / 0	15	3672.9	1 / 74	H	117	121	9.65	9.20	18.85	0.077	23.00	-4.15
30 MHz	QPSK	20	3555.0	1 / 99	10	3574.4	1 / 0	H	100	118	9.69	7.64	17.34	0.054	23.00	-5.66
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	125	128	9.67	9.03	18.71	0.074	23.00	-4.29
		20	3695.0	1 / 0	10	3678.3	1 / 49	H	117	121	9.65	10.16	19.81	0.096	23.00	-3.19
	16-QAM	20	3555.0	1 / 99	10	3574.4	1 / 0	H	100	118	9.69	7.33	17.02	0.050	23.00	-5.98
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	125	128	9.67	7.75	17.42	0.055	23.00	-5.58
		20	3695.0	1 / 0	10	3678.3	1 / 49	H	117	121	9.65	9.58	19.23	0.084	23.00	-3.77
25 MHz	QPSK	20	3552.5	1 / 99	5	3571.7	1 / 0	H	100	118	9.70	8.76	18.45	0.070	23.00	-4.55
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	125	128	9.67	8.60	18.27	0.067	23.00	-4.73
		20	3697.5	1 / 0	5	3678.3	1 / 24	H	117	121	9.65	10.33	19.98	0.099	23.00	-3.02
	16-QAM	20	3552.5	1 / 99	5	3571.7	1 / 0	H	100	118	9.70	8.59	18.29	0.067	23.00	-4.71
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	125	128	9.67	7.24	16.91	0.049	23.00	-6.09
		20	3697.5	1 / 0	5	3678.3	1 / 24	H	117	121	9.65	8.76	18.41	0.069	23.00	-4.59

Table 7-51. EIRP Data (ULCA LTE Band 48 – Ant C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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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]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	H	102	123	9.69	1 / 104	10.99	20.68	0.117	23.00	-2.32
	$\pi/2$ BPSK	3625.00	H	103	121	9.67	1 / 1	11.42	21.09	0.129	23.00	-1.91
	$\pi/2$ BPSK	3680.00	H	100	123	9.66	1 / 1	10.96	20.62	0.115	23.00	-2.38
	QPSK	3570.00	H	102	123	9.69	1 / 104	10.92	20.61	0.115	23.00	-2.39
	QPSK	3625.00	H	103	121	9.67	1 / 1	11.55	21.22	0.133	23.00	-1.78
	QPSK	3680.00	H	100	123	9.66	1 / 1	10.94	20.60	0.115	23.00	-2.40
30 MHz	16-QAM	3570.00	H	102	123	9.69	1 / 104	10.05	19.74	0.094	23.00	-3.26
	16-QAM	3625.00	H	103	121	9.67	1 / 1	10.37	20.04	0.101	23.00	-2.96
	16-QAM	3680.00	H	100	123	9.66	1 / 104	9.44	19.10	0.081	23.00	-3.90
	$\pi/2$ BPSK	3565.00	H	102	123	9.69	1 / 76	10.80	20.50	0.112	23.00	-2.50
	$\pi/2$ BPSK	3625.00	H	103	121	9.67	1 / 76	11.61	21.28	0.134	23.00	-1.72
	$\pi/2$ BPSK	3685.00	H	100	123	9.66	1 / 1	10.61	20.27	0.106	23.00	-2.73
20 MHz	QPSK	3565.00	H	102	123	9.69	1 / 76	10.47	20.16	0.104	23.00	-2.84
	QPSK	3625.00	H	103	121	9.67	1 / 76	11.78	21.46	0.140	23.00	-1.54
	QPSK	3685.00	H	100	123	9.66	1 / 1	10.50	20.16	0.104	23.00	-2.84
	16-QAM	3565.00	H	102	123	9.69	1 / 76	9.76	19.45	0.088	23.00	-3.55
	16-QAM	3625.00	H	103	121	9.67	1 / 76	10.24	19.91	0.098	23.00	-3.09
	16-QAM	3685.00	H	100	123	9.66	1 / 1	9.10	18.75	0.075	23.00	-4.25
15 MHz	16-QAM	3560.00	H	102	123	9.69	1 / 1	11.81	21.50	0.141	23.00	-1.50
	$\pi/2$ BPSK	3625.00	H	103	121	9.67	1 / 49	11.45	21.13	0.130	23.00	-1.87
	$\pi/2$ BPSK	3690.00	H	100	123	9.66	1 / 1	10.37	20.02	0.100	23.00	-2.98
	QPSK	3560.00	H	102	123	9.69	1 / 1	11.42	21.11	0.129	23.00	-1.89
	QPSK	3625.00	H	103	121	9.67	1 / 49	11.65	21.32	0.136	23.00	-1.68
	QPSK	3690.00	H	100	123	9.66	1 / 1	10.30	19.95	0.099	23.00	-3.05
10 MHz	16-QAM	3560.00	H	102	123	9.69	1 / 1	10.89	20.58	0.114	23.00	-2.42
	16-QAM	3625.00	H	103	121	9.67	1 / 49	10.04	19.72	0.094	23.00	-3.28
	16-QAM	3690.00	H	100	123	9.66	1 / 1	9.02	18.68	0.074	23.00	-4.32
	$\pi/2$ BPSK	3557.50	H	102	123	9.69	1 / 1	11.70	21.40	0.138	23.00	-1.60
	$\pi/2$ BPSK	3625.00	H	103	121	9.67	1 / 36	11.73	21.41	0.138	23.00	-1.59
	$\pi/2$ BPSK	3692.50	H	100	123	9.65	1 / 36	10.28	19.94	0.099	23.00	-3.06
40 MHz	QPSK	3557.50	H	102	123	9.69	1 / 19	11.46	21.16	0.131	23.00	-1.84
	QPSK	3625.00	H	103	121	9.67	1 / 36	11.75	21.42	0.139	23.00	-1.58
	QPSK	3692.50	H	100	123	9.65	1 / 1	10.24	19.90	0.098	23.00	-3.10
	16-QAM	3557.50	H	102	123	9.69	1 / 19	10.85	20.54	0.113	23.00	-2.46
	16-QAM	3625.00	H	103	121	9.67	1 / 36	10.22	19.89	0.098	23.00	-3.11
	16-QAM	3692.50	H	100	123	9.65	1 / 36	8.65	18.31	0.068	23.00	-4.69
10 MHz	$\pi/2$ BPSK	3555.00	H	102	123	9.69	1 / 1	11.82	21.51	0.142	23.00	-1.49
	$\pi/2$ BPSK	3625.00	H	103	121	9.67	1 / 22	11.67	21.34	0.136	23.00	-1.66
	$\pi/2$ BPSK	3695.00	H	100	123	9.65	1 / 1	10.32	19.98	0.099	23.00	-3.02
	QPSK	3555.00	H	102	123	9.69	1 / 1	11.53	21.23	0.133	23.00	-1.77
	QPSK	3625.00	H	103	121	9.67	1 / 1	11.76	21.43	0.139	23.00	-1.57
	QPSK	3695.00	H	100	123	9.65	1 / 22	10.40	20.05	0.101	23.00	-2.95
40 MHz	16-QAM	3555.00	H	102	123	9.69	1 / 1	10.97	20.66	0.116	23.00	-2.34
	16-QAM	3625.00	H	103	121	9.67	1 / 22	10.24	19.91	0.098	23.00	-3.09
	16-QAM	3695.00	H	100	123	9.65	1 / 22	8.94	18.60	0.072	23.00	-4.40
	QPSK (CP-OFDM)	3625.00	H	102	123	9.66	1 / 53	9.53	19.19	0.083	23.00	-3.81
	QPSK (Opposite Pol.)	3625.00	V	114	67	9.66	1 / 1	9.54	19.20	0.083	23.00	-3.80
	QPSK (WCP)	3625.00	H	106	122	9.66	1 / 1	11.21	20.87	0.122	23.00	-2.13

Table 7-52. EIRP Data (NR Band n48 – Switching Ant C)

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/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	H	147	61	9.69	1 / 104	6.73	16.42	0.044	23.00	-6.58
	$\pi/2$ BPSK	3625.00	H	132	49	9.67	1 / 104	7.20	16.87	0.049	23.00	-6.13
	$\pi/2$ BPSK	3680.00	H	132	49	9.66	1 / 104	7.40	17.06	0.051	23.00	-5.94
	QPSK	3570.00	H	147	61	9.69	1 / 104	6.75	16.44	0.044	23.00	-6.56
	QPSK	3625.00	H	132	49	9.67	1 / 104	7.24	16.91	0.049	23.00	-6.09
	QPSK	3680.00	H	132	49	9.66	1 / 104	7.38	17.04	0.051	23.00	-5.96
	16-QAM	3570.00	H	147	61	9.69	1 / 104	5.99	15.68	0.037	23.00	-7.32
	16-QAM	3625.00	H	132	49	9.67	1 / 104	6.52	16.19	0.042	23.00	-6.81
	16-QAM	3680.00	H	132	49	9.66	1 / 104	6.73	16.39	0.044	23.00	-6.61

Table 7-53. EIRP Data (NR Band n48 – Switching Ant F)

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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]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	H	118	132	9.69	1 / 1	10.81	20.50	0.112	23.00	-2.50
	$\pi/2$ BPSK	3625.00	H	119	130	9.67	1 / 1	10.37	20.04	0.101	23.00	-2.96
	$\pi/2$ BPSK	3680.00	H	116	130	9.66	1 / 1	9.39	19.05	0.080	23.00	-3.95
	QPSK	3570.00	H	118	132	9.69	1 / 53	10.73	20.42	0.110	23.00	-2.58
	QPSK	3625.00	H	119	130	9.67	1 / 1	10.35	20.02	0.101	23.00	-2.98
	QPSK	3680.00	H	116	130	9.66	1 / 1	9.36	19.02	0.080	23.00	-3.98
	16-QAM	3570.00	H	118	132	9.69	1 / 1	10.07	19.76	0.095	23.00	-3.24
	16-QAM	3625.00	H	119	130	9.67	1 / 1	9.67	19.34	0.086	23.00	-3.66
	16-QAM	3680.00	H	116	130	9.66	1 / 1	8.74	18.40	0.069	23.00	-4.60

Table 7-54. EIRP Data (NR Band n48 – Switching Ant A)

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/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	H	102	53	9.69	1 / 1	10.02	19.71	0.094	23.00	-3.29
	$\pi/2$ BPSK	3625.00	H	101	52	9.67	1 / 1	10.07	19.74	0.094	23.00	-3.26
	$\pi/2$ BPSK	3680.00	H	116	57	9.66	1 / 104	9.47	19.13	0.082	23.00	-3.87
	QPSK	3570.00	H	102	53	9.69	1 / 1	10.03	19.72	0.094	23.00	-3.28
	QPSK	3625.00	H	101	52	9.67	1 / 1	10.03	19.70	0.093	23.00	-3.30
	QPSK	3680.00	H	116	57	9.66	1 / 104	9.48	19.14	0.082	23.00	-3.86
	16-QAM	3570.00	H	102	53	9.69	1 / 1	9.41	19.10	0.081	23.00	-3.90
	16-QAM	3625.00	H	101	52	9.67	1 / 1	9.22	18.89	0.078	23.00	-4.11
	16-QAM	3680.00	H	116	57	9.66	1 / 104	8.82	18.48	0.070	23.00	-4.52

Table 7-55. EIRP Data (NR Band n48 – Switching Ant G)

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7.7 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
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.

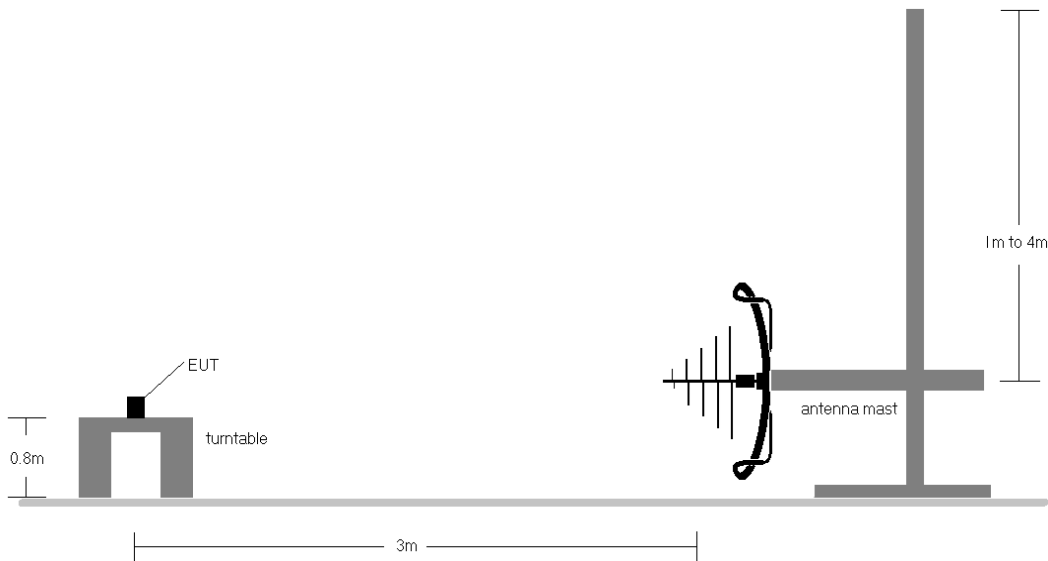


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

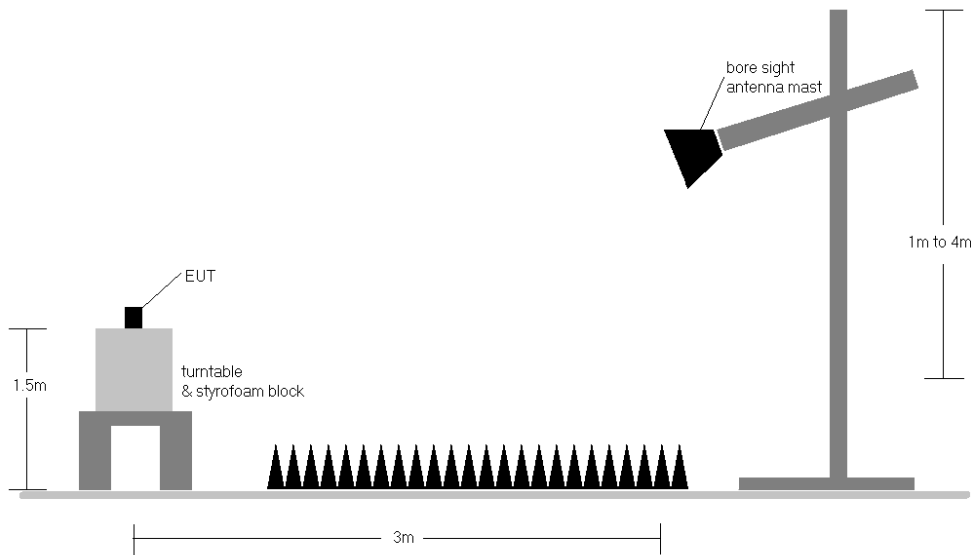


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

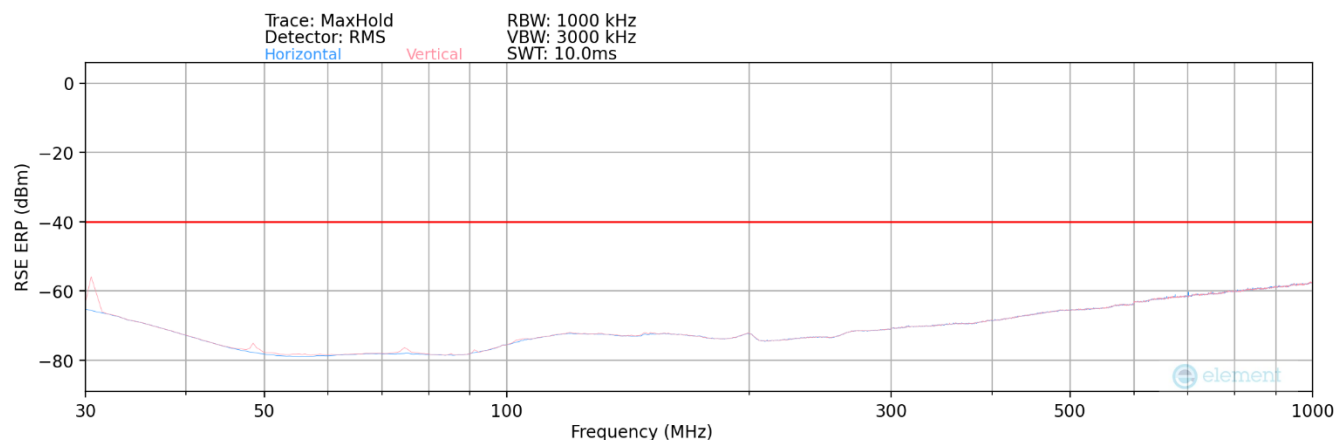
FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

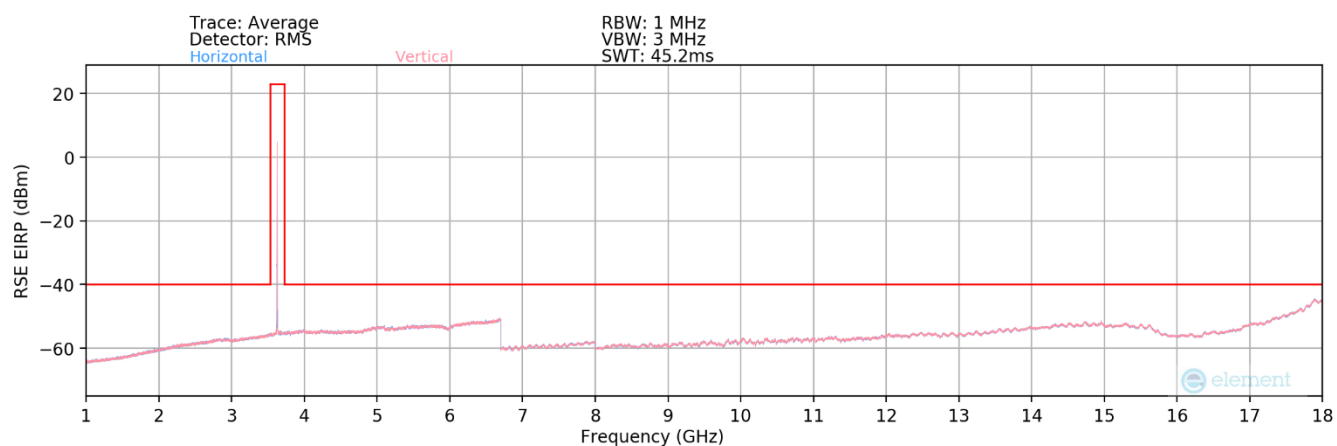
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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 emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are 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.
- 9) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.

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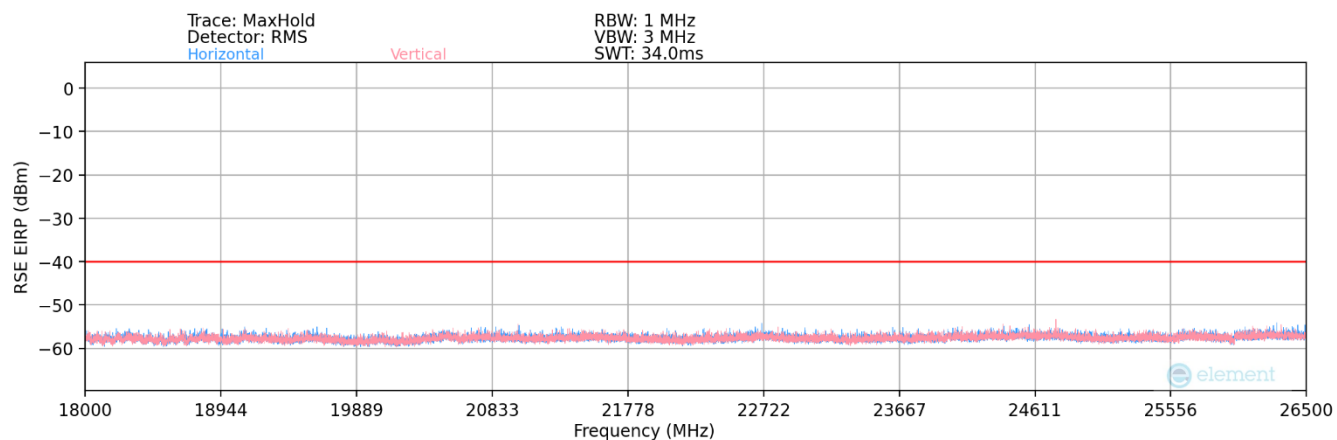
LTE Band 48 – Ant F



Plot 7-167. Radiated Spurious Plot (LTE Band 48 – Ant F)

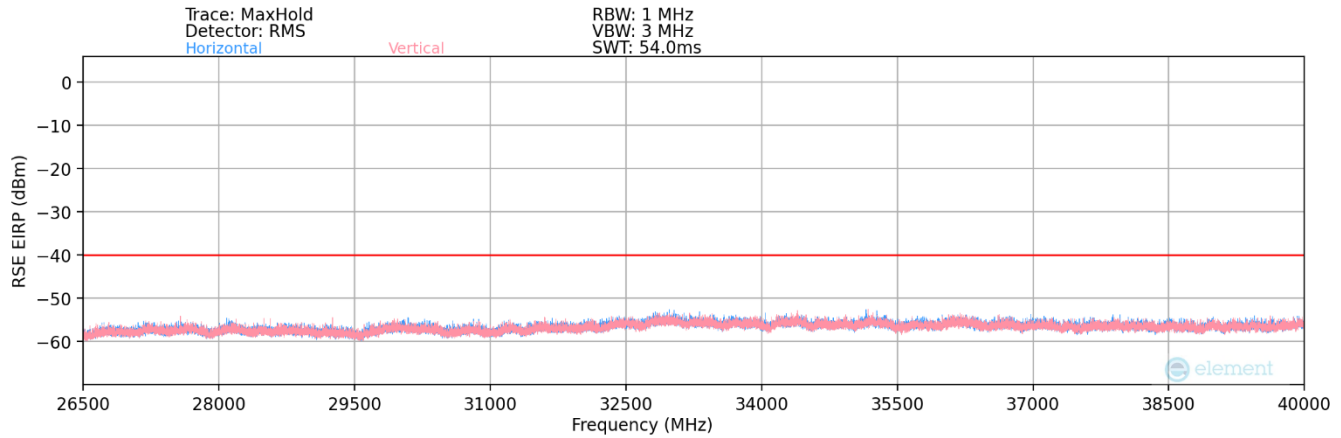


Plot 7-168. Radiated Spurious Plot (LTE Band 48 – Ant F)



Plot 7-169. Radiated Spurious Plot (LTE Band 48 – Ant F)

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Plot 7-170. Radiated Spurious Plot (LTE Band 48 – Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
300.00	H	-	-	-81.60	21.22	46.62	-50.79	-40.00	-10.79

Table 7-56. Radiated Spurious Data (LTE Band 48 – Mid Channel - Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7120.00	H	-	-	-76.49	6.71	37.22	-58.04	-40.00	-18.04
10680.00	H	-	-	-78.64	11.26	39.62	-55.64	-40.00	-15.64
14240.00	H	-	-	-80.19	16.48	43.29	-51.97	-40.00	-11.97

Table 7-57. Radiated Spurious Data (LTE Band 48 – Low Channel - Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	H	-	-	-76.31	7.07	37.76	-57.50	-40.00	-17.50
10875.00	H	-	-	-77.50	11.02	40.52	-54.73	-40.00	-14.73
14500.00	H	-	-	-79.17	17.19	45.02	-50.24	-40.00	-10.24

Table 7-58. Radiated Spurious Data (LTE Band 48 – Mid Channel - Ant F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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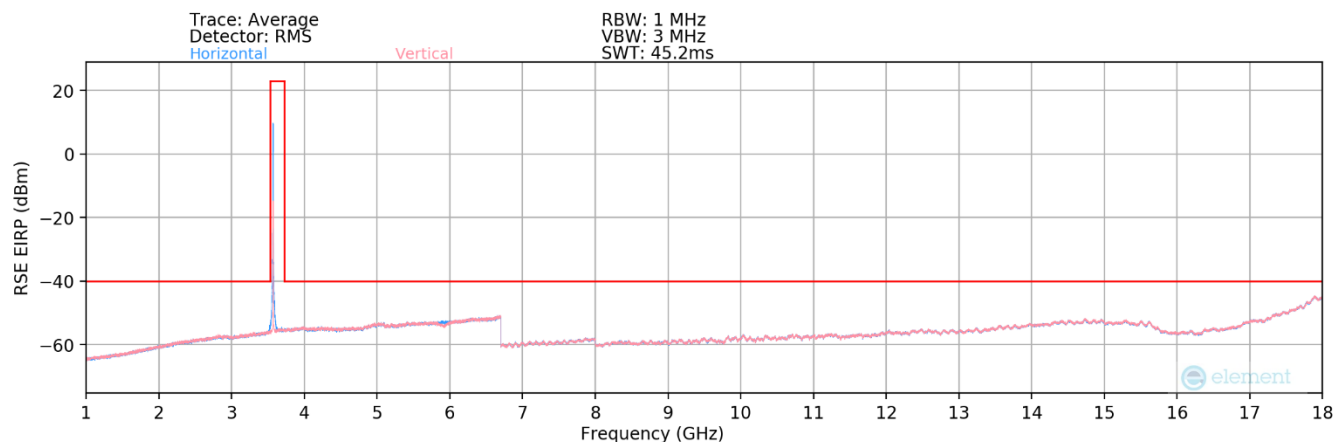
Bandwidth (MHz):	20
Frequency (MHz):	3690.0
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7380.00	H	-	-	-76.77	7.06	37.29	-57.97	-40.00	-17.97
11070.00	H	-	-	-78.68	11.93	40.25	-55.01	-40.00	-15.01
14760.00	H	-	-	-79.64	18.29	45.65	-49.61	-40.00	-9.61

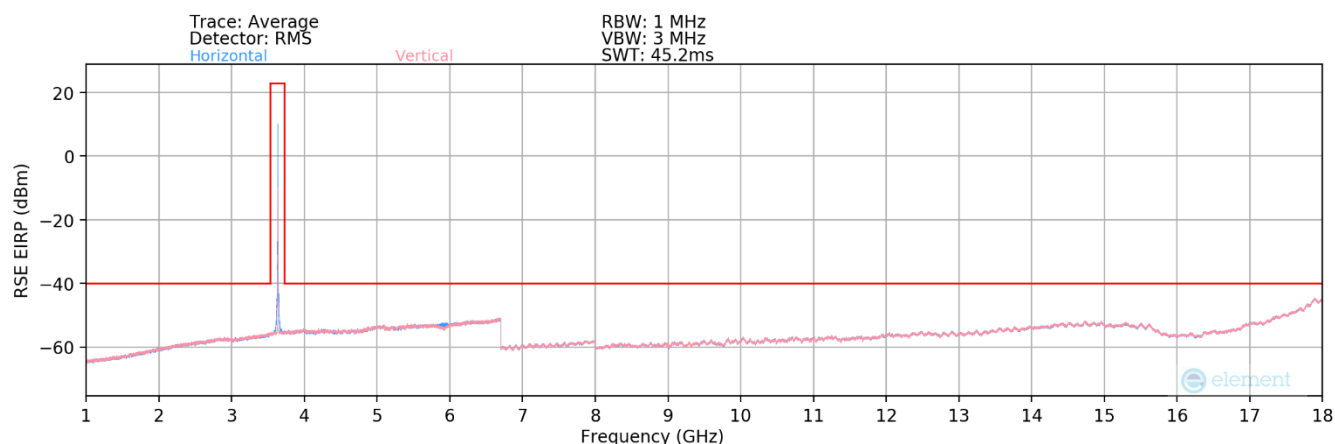
Table 7-59. Radiated Spurious Data (LTE Band 48 – High Channel - Ant F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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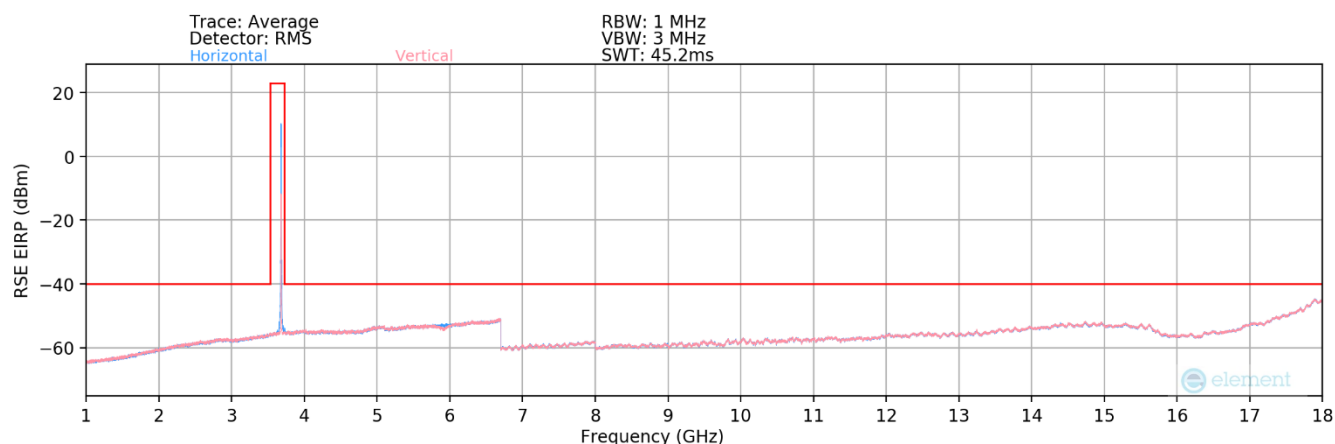
ULCA LB48 – Ant F



Plot 7-171. Radiated Spurious Plot (ULCA LB48 – Ant F – Low Channel)

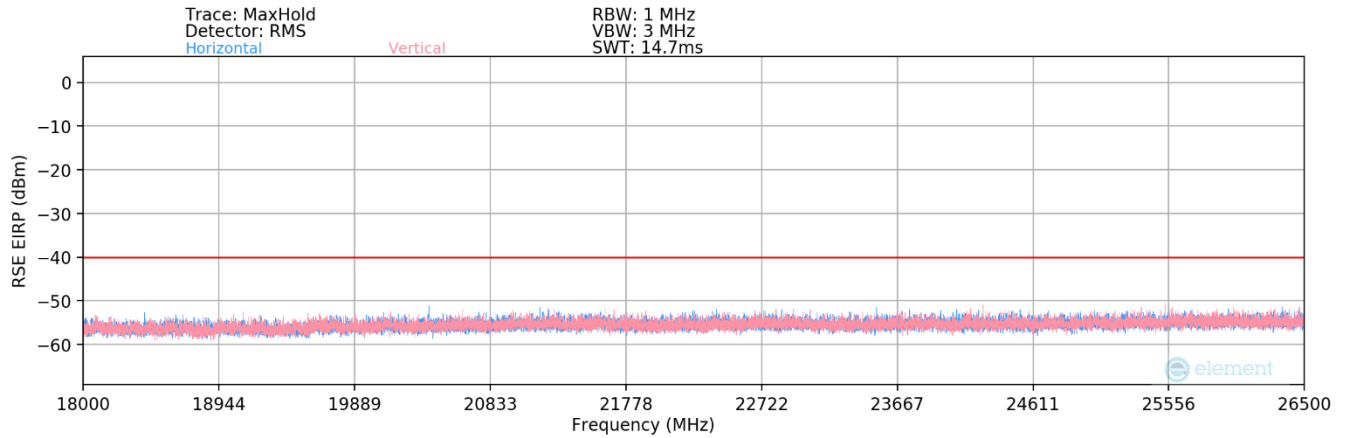


Plot 7-172. Radiated Spurious Plot (ULCA LB48 – Ant F – Mid Channel)

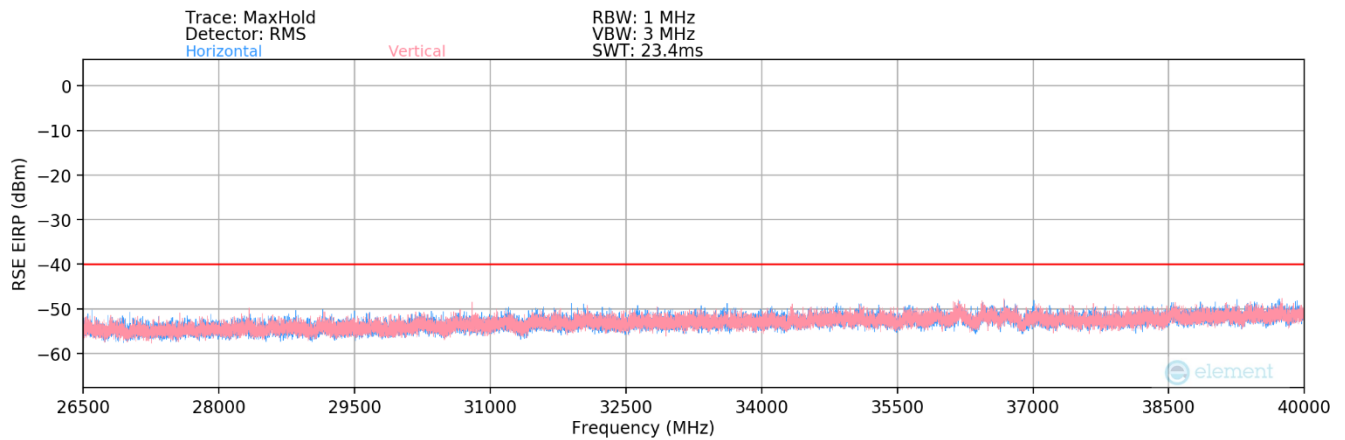


Plot 7-173. Radiated Spurious Plot (ULCA LB48 – Ant F – High Channel)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-174. Radiated Spurious Plot (ULCA LB48 – Ant F – Mid Channel)



Plot 7-175. Radiated Spurious Plot (ULCA LB48 – Ant F – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0

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]
7120.00	H	-	-	-76.86	6.71	36.85	-58.41	-40.00	-18.41
10680.00	H	-	-	-78.83	11.26	39.43	-55.83	-40.00	-15.83
14240.00	H	-	-	-80.06	16.48	43.42	-51.84	-40.00	-11.84

Table 7-60. Radiated Spurious Data (ULCA LB48 – Low Channel - Ant F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0

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]
7250.00	H	-	-	-76.63	7.07	37.44	-57.82	-40.00	-17.82
10875.00	H	-	-	-78.29	11.02	39.73	-55.52	-40.00	-15.52
14500.00	H	-	-	-79.98	17.19	44.21	-51.05	-40.00	-11.05

Table 7-61. Radiated Spurious Data (ULCA LB48 – Mid Channel - Ant F)

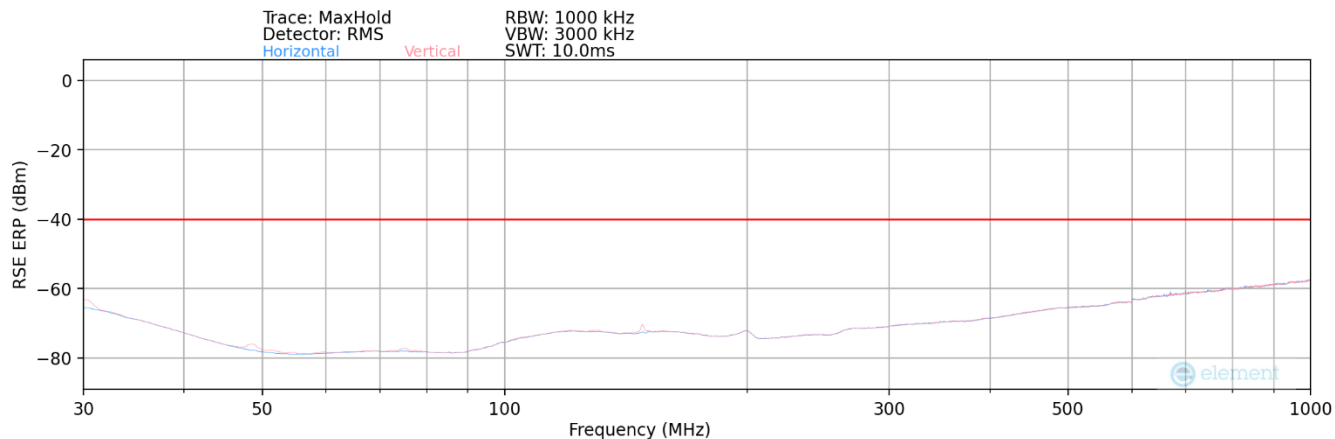
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 99

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]
7380.00	H	-	-	-76.56	7.06	37.50	-57.76	-40.00	-17.76
11070.00	H	-	-	-78.65	11.93	40.28	-54.98	-40.00	-14.98
14760.00	H	-	-	-80.42	18.29	44.87	-50.39	-40.00	-10.39

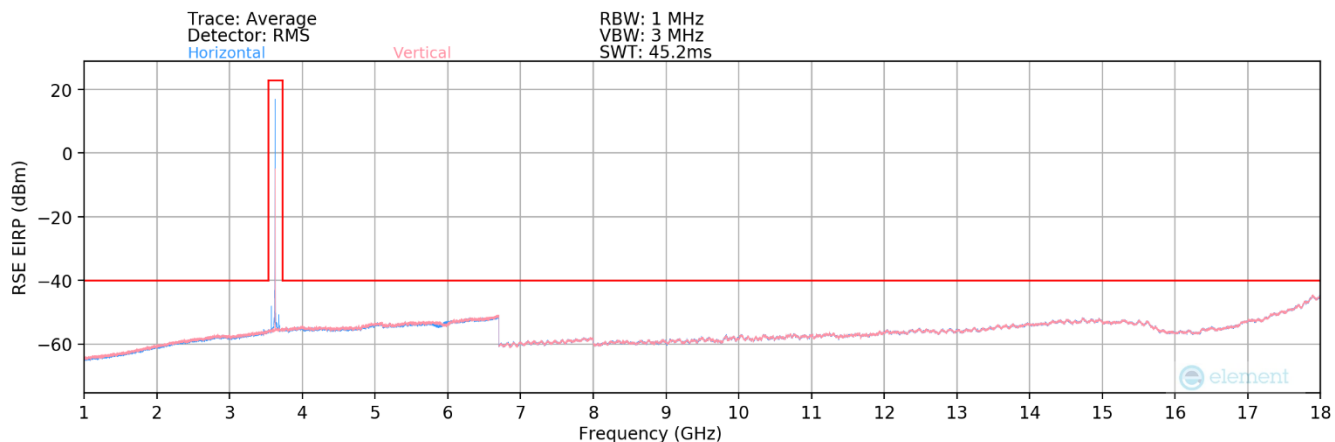
Table 7-62. Radiated Spurious Data (ULCA LB48 – High Channel - Ant F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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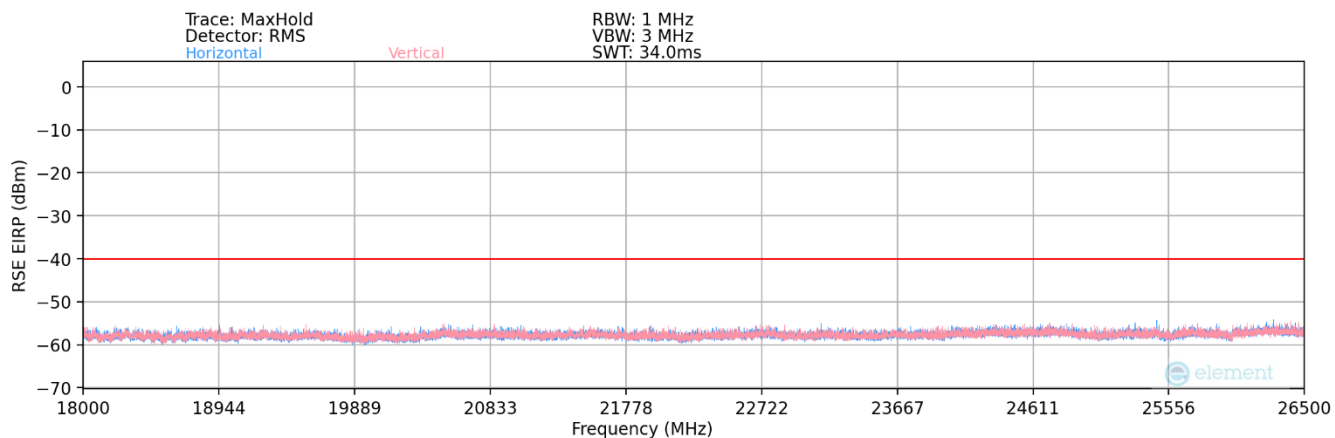
NR Band n48 – Ant F



Plot 7-176. Radiated Spurious Plot (NR Band n48 – Ant F)

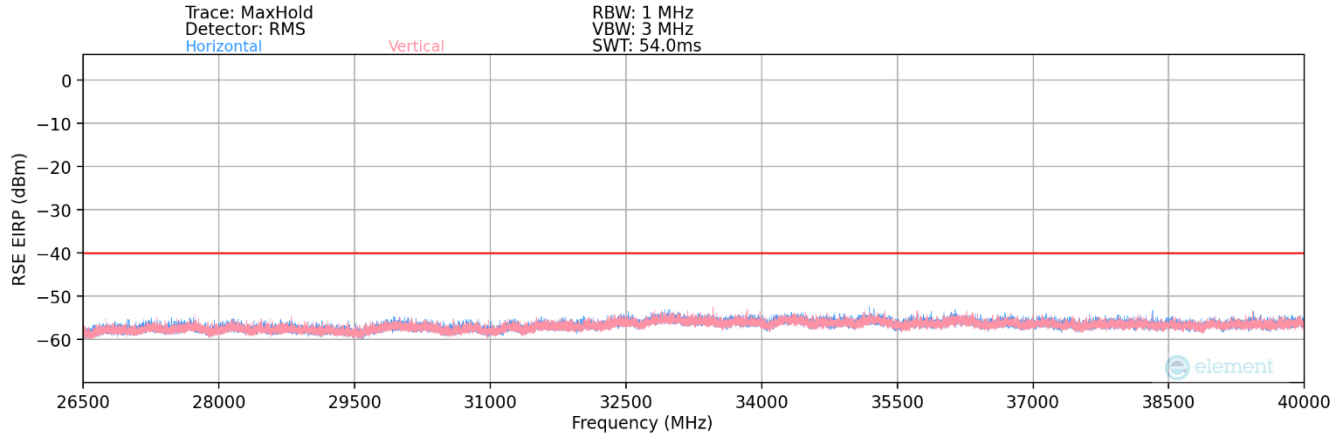


Plot 7-177. Radiated Spurious Plot (NR Band n48 – Ant F)



Plot 7-178. Radiated Spurious Plot (NR Band n48 – Ant F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-179. Radiated Spurious Plot (NR Band n48 – Ant F)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
RB Config (Size / Offset):	1 / 53

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]
150.00	V	-	-	-76.25	19.72	50.47	-46.93	-40.00	-6.93

Table 7-63. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant F)

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
RB Config (Size / Offset):	1 / 53

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]
7140.00	H	-	-	-74.24	6.66	39.42	-55.84	-40.00	-15.84
10710.00	H	-	-	-75.82	12.20	43.38	-51.88	-40.00	-11.88
14280.00	H	-	-	-77.83	16.86	46.03	-49.22	-40.00	-9.22

Table 7-64. Radiated Spurious Data (NR Band n48 – Low Channel - Ant F)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
RB Config (Size / Offset):	1 / 53

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]
7250.00	H	-	-	-74.86	7.07	39.21	-56.05	-40.00	-16.05
10875.00	H	-	-	-75.34	11.02	42.68	-52.57	-40.00	-12.57
14500.00	H	-	-	-77.61	17.19	46.58	-48.68	-40.00	-8.68

Table 7-65. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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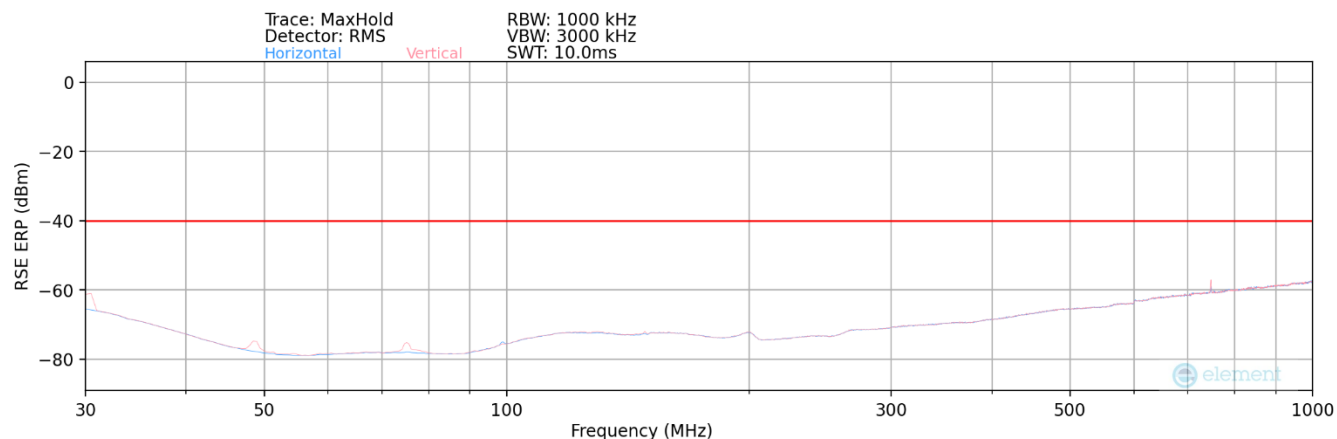
Bandwidth (MHz):	40
Frequency (MHz):	3680.0
RB Config (Size / Offset):	1 / 53

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]
7360.00	H	-	-	-74.39	7.06	39.67	-55.59	-40.00	-15.59
11040.00	H	-	-	-76.12	11.00	41.88	-53.38	-40.00	-13.38
14720.00	H	-	-	-77.64	18.33	47.69	-47.56	-40.00	-7.56

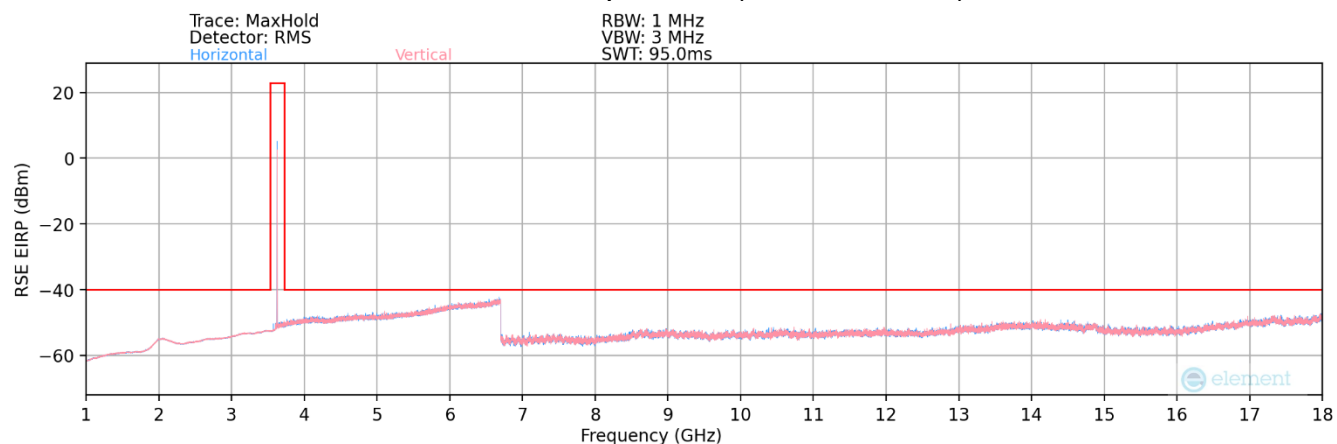
Table 7-66. Radiated Spurious Data (NR Band n48 – High Channel - Ant F)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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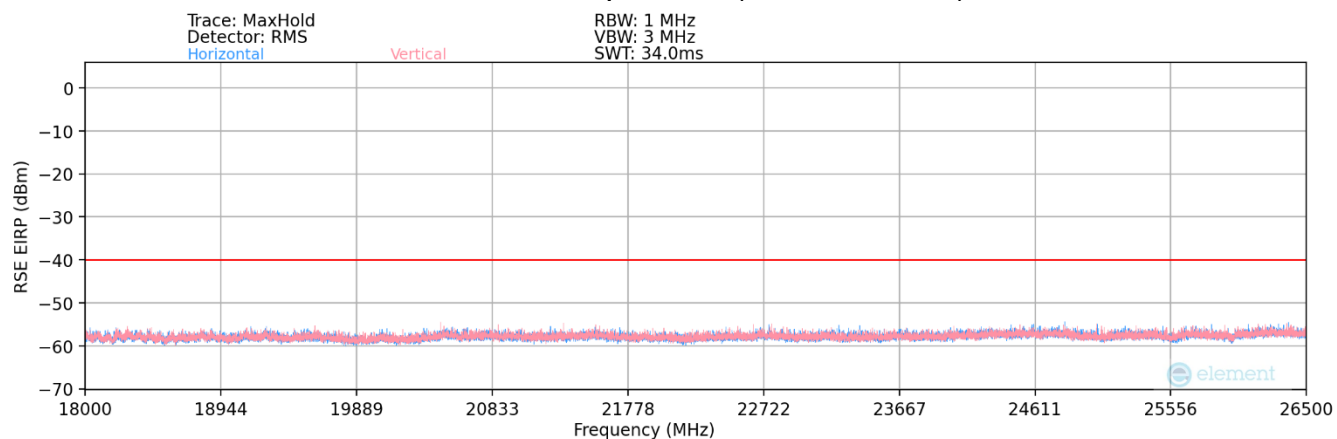
NR Band n48 – Ant C



Plot 7-180. Radiated Spurious Plot (NR Band n48 – Ant C)

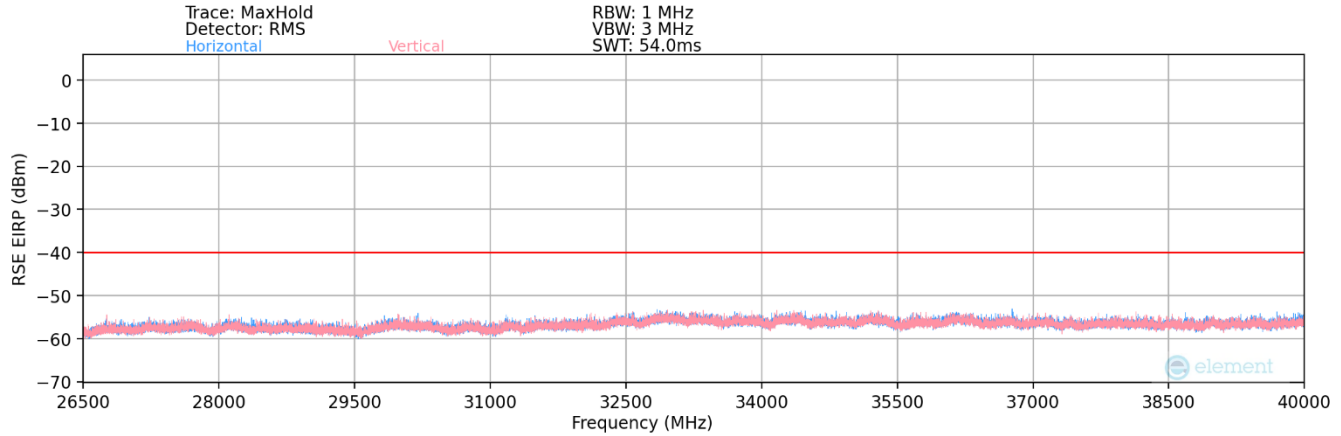


Plot 7-181. Radiated Spurious Plot (NR Band n48 – Ant C)



Plot 7-182. Radiated Spurious Plot (NR Band n48 – Ant C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-183. Radiated Spurious Plot (NR Band n48 – Ant C)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
RB Config (Size / Offset):	1 / 53

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]
750.00	V	-	-	-82.71	29.40	53.69	-43.71	-40.00	-3.71

Table 7-67. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant C)

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
RB Config (Size / Offset):	1 / 53

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]
7140.00	V	-	-	-77.71	10.02	39.31	-55.95	-40.00	-15.95
10710.00	V	-	-	-78.63	12.54	40.91	-54.34	-40.00	-14.34
14280.00	V	-	-	-78.94	15.08	43.14	-52.12	-40.00	-12.12

Table 7-68. Radiated Spurious Data (NR Band n48 – Low Channel - Ant C)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
RB Config (Size / Offset):	1 / 53

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]
7250.00	V	-	-	-76.17	9.31	40.14	-55.12	-40.00	-15.12
10875.00	V	-	-	-78.66	12.69	41.03	-54.23	-40.00	-14.23
14500.00	V	-	-	-78.48	15.58	44.10	-51.16	-40.00	-11.16

Table 7-69. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	3680.0
RB Config (Size / Offset):	1 / 53

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]
7360.00	V	-	-	-76.64	9.22	39.58	-55.68	-40.00	-15.68
11040.00	V	-	-	-78.17	12.67	41.50	-53.76	-40.00	-13.76
14720.00	V	-	-	-79.66	15.05	42.39	-52.87	-40.00	-12.87

Table 7-70. Radiated Spurious Data (NR Band n48 – High Channel - Ant C)

FCC ID: A3LSMF966U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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