

LTE Band 48 – Ant1

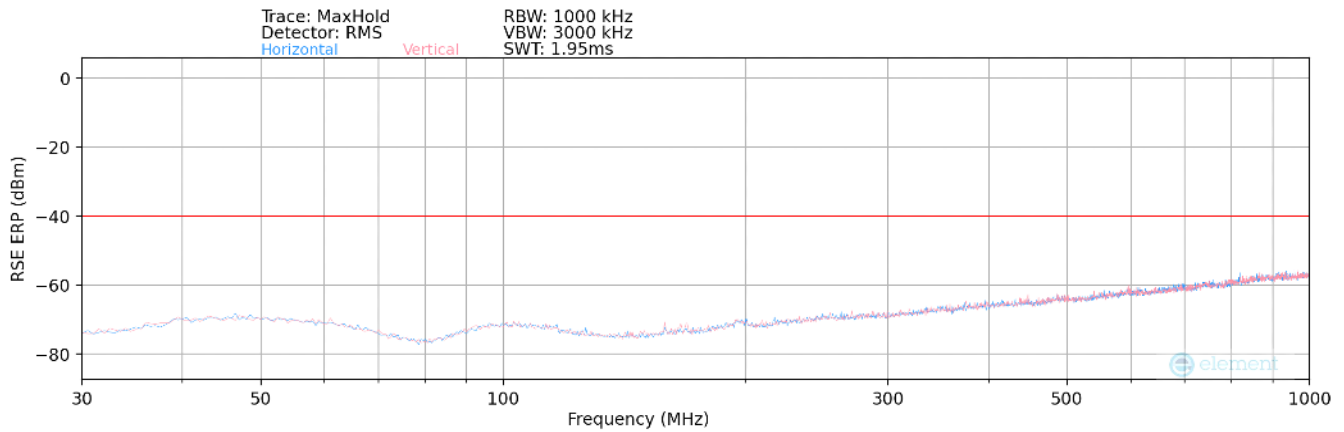


Table 7-15. Radiated Spurious Plot Below 1GHz (LTE Band 48 – Ant1)

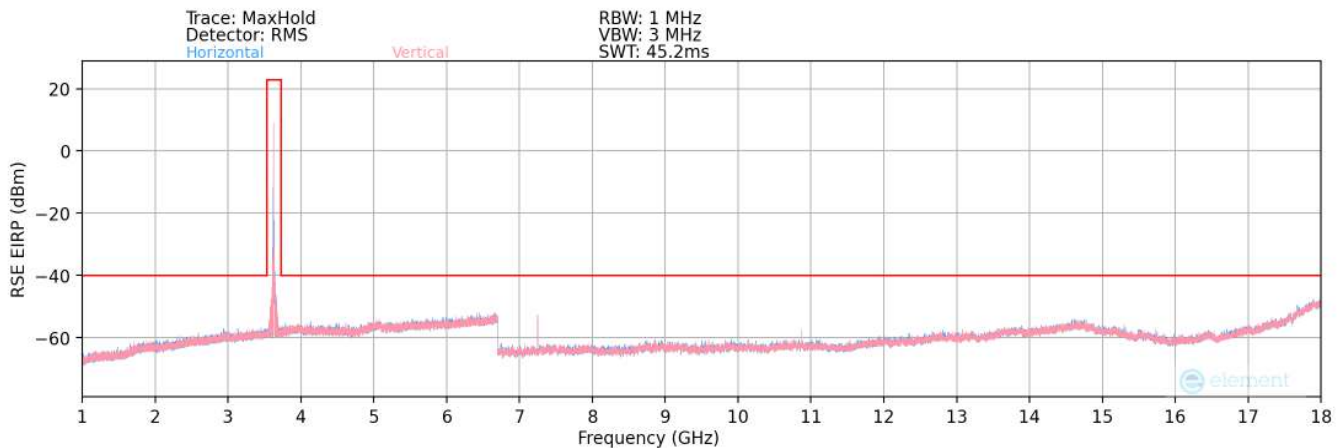


Table 7-16. Radiated Spurious Plot 1-18GHz (LTE Band 48 – Ant1)

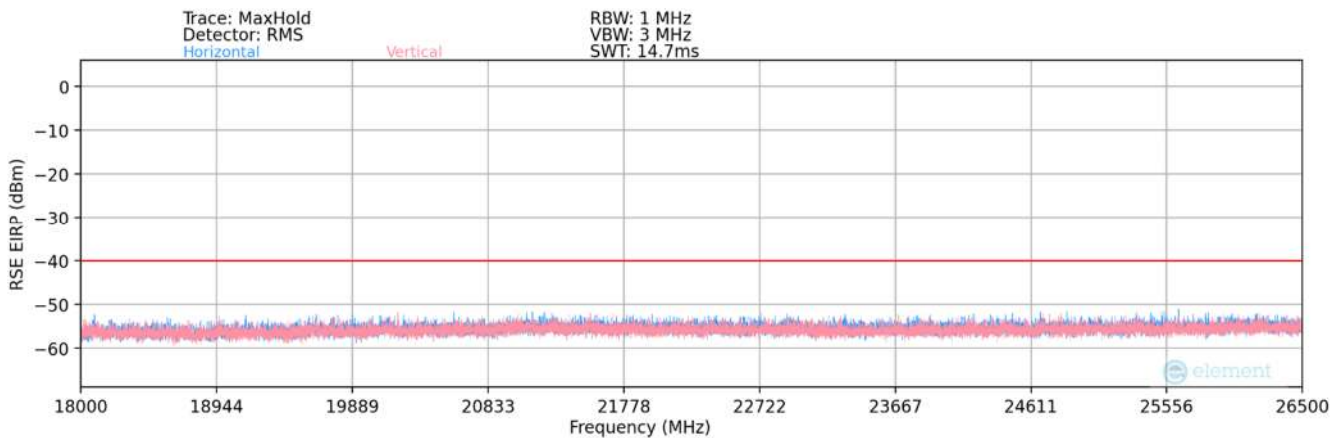


Table 7-17. Radiated Spurious Plot 18-26.5GHz (LTE Band 48 – Ant1)

FCC ID: A3LSMF776U	PART 96 MEASUREMENT REPORT	Test Dates: 3/4/2026 – 4/16/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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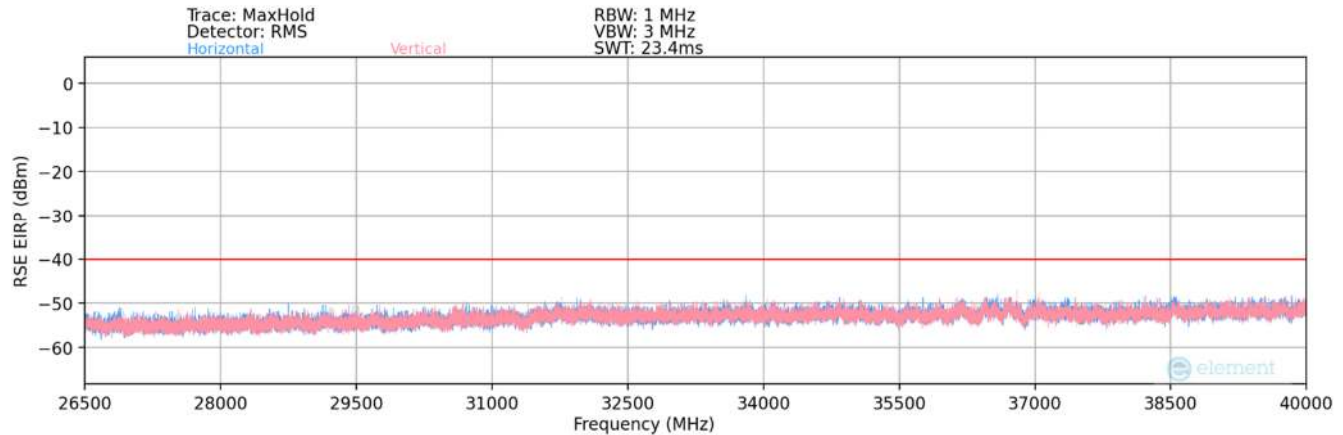


Table 7-18. Radiated Spurious Plot 26.5-40GHz (LTE Band 48 – Ant1)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
652.44	H	-	-	-97.51	27.31	36.80	-60.61	-40.00	-20.61
819.34	H	-	-	-95.49	29.79	41.30	-56.11	-40.00	-16.11
916.29	H	-	-	-96.82	31.00	41.18	-56.22	-40.00	-16.22

Table 7-19. Radiated Spurious Data (LTE Band 48 – Mid Channel – Ant1)

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	-	-	-77.51	6.79	36.28	-58.98	-40.00	-18.98
10680.00	H	-	-	-78.02	10.68	39.66	-55.60	-40.00	-15.60
14240.00	H	-	-	-78.59	17.52	45.93	-49.33	-40.00	-9.33
17800.00	H	-	-	-77.56	23.83	53.27	-41.99	-40.00	-1.99
21360.00	H	-	-	-62.13	3.72	48.59	-56.21	-40.00	-16.21
24920.00	H	-	-	-61.57	3.64	49.07	-55.73	-40.00	-15.73
28480.00	H	-	-	-61.88	4.58	49.70	-55.10	-40.00	-15.10
32040.00	H	-	-	-63.04	7.43	51.39	-53.41	-40.00	-13.41

Table 7-20. Radiated Spurious Data (LTE Band 48 – Low Channel - Ant1)

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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	266	174	-73.96	6.91	39.95	-55.31	-40.00	-15.31
10875.00	H	-	-	-78.83	10.34	38.51	-56.75	-40.00	-16.75
14500.00	H	-	-	-78.76	18.09	46.33	-48.93	-40.00	-8.93
18125.00	H	-	-	-60.51	1.01	47.50	-57.30	-40.00	-17.30
21750.00	H	-	-	-61.81	3.59	48.78	-56.02	-40.00	-16.02
25375.00	H	-	-	-61.74	3.86	49.12	-55.68	-40.00	-15.68
29000.00	H	-	-	-62.82	5.05	49.23	-55.57	-40.00	-15.57
32625.00	H	-	-	-62.24	6.62	51.38	-53.42	-40.00	-13.42

Table 7-21. Radiated Spurious Data (LTE Band 48 – Mid Channel - Ant1)

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	-	-	-76.51	7.54	38.03	-57.23	-40.00	-17.23
11070.00	H	-	-	-77.51	11.31	40.80	-54.46	-40.00	-14.46
14760.00	H	-	-	-77.98	19.28	48.30	-46.96	-40.00	-6.96
18450.00	H	-	-	-60.56	1.32	47.77	-57.03	-40.00	-17.03
22140.00	H	-	-	-61.98	3.51	48.53	-56.27	-40.00	-16.27
25830.00	H	-	-	-61.59	3.73	49.14	-55.66	-40.00	-15.66
29520.00	H	-	-	-62.77	5.42	49.65	-55.15	-40.00	-15.15
33210.00	H	-	-	-62.39	7.41	52.02	-52.78	-40.00	-12.78

Table 7-22. Radiated Spurious Data (LTE Band 48 – High Channel - Ant1)

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ULCA LTE Band 48 – Ant1

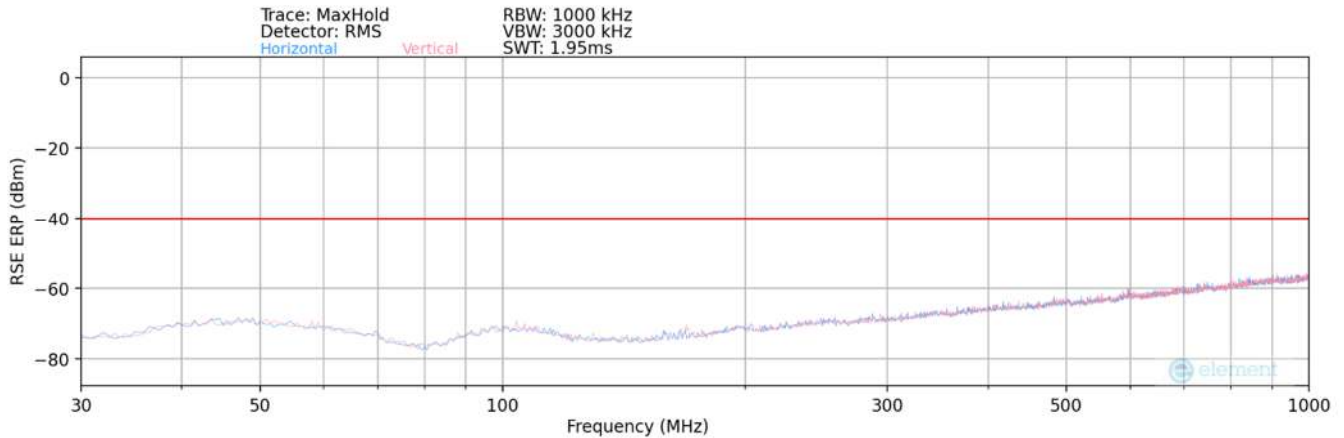


Table 7-23. Radiated Spurious Plot Below 1GHz (ULCA LTE Band 48 – Ant1)

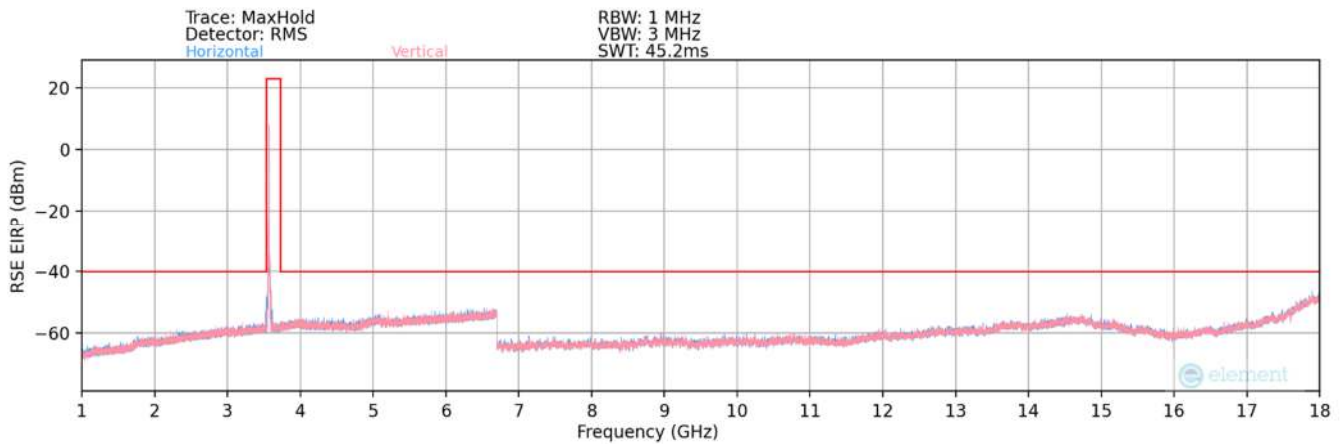


Table 7-24. Radiated Spurious Plot 1-18GHz (ULCA LTE Band 48 – Ant1 – Low Channel)

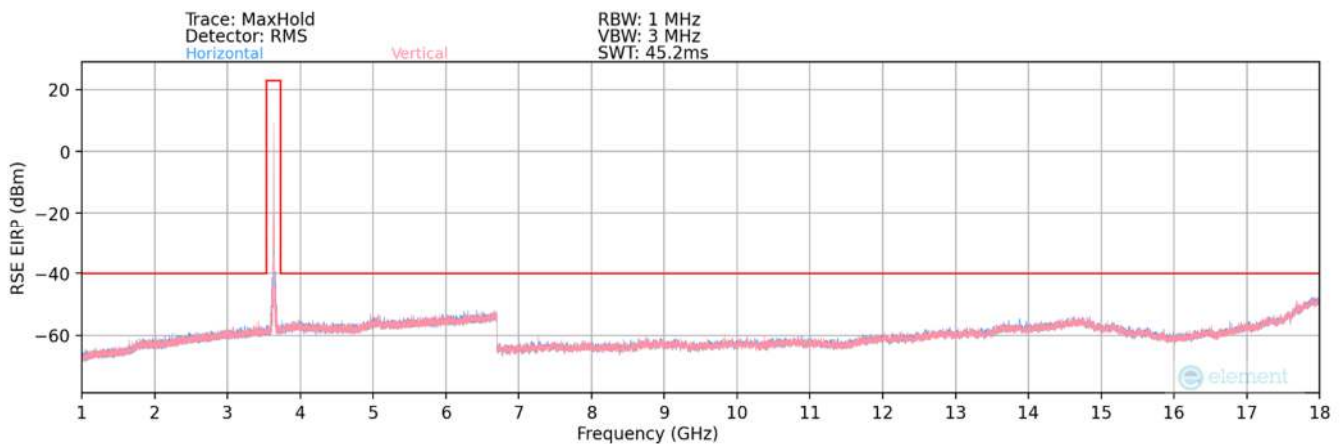


Table 7-25. Radiated Spurious Plot 1-18GHz (ULCA LTE Band 48 – Ant1 – Mid Channel)

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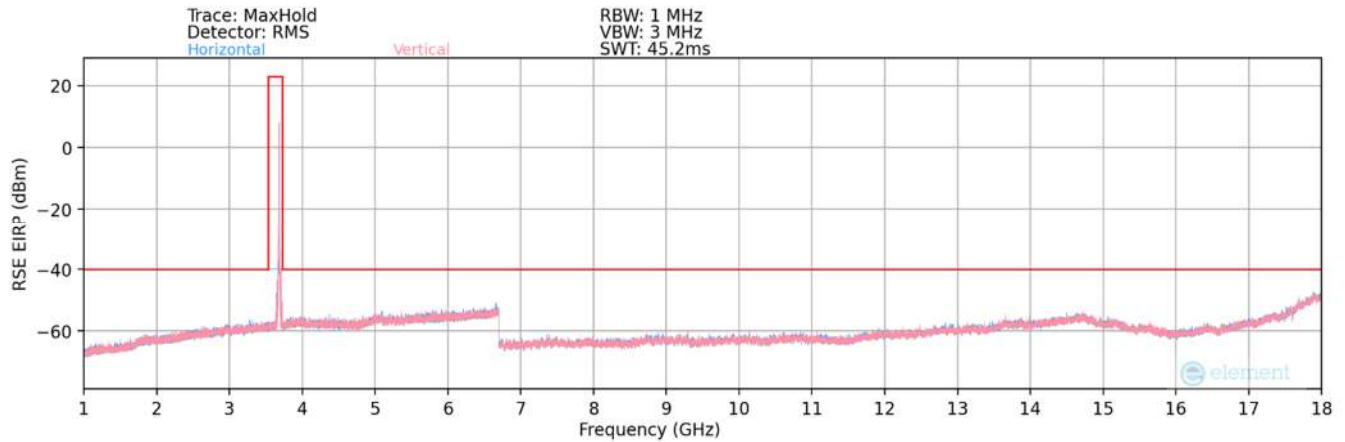


Table 7-26. Radiated Spurious Plot 1-18GHz (ULCA LTE Band 48 – Ant1 – Mid Channel)



Table 7-27. Radiated Spurious Plot 18-26.5GHz (ULCA LTE Band 48 – Ant1)

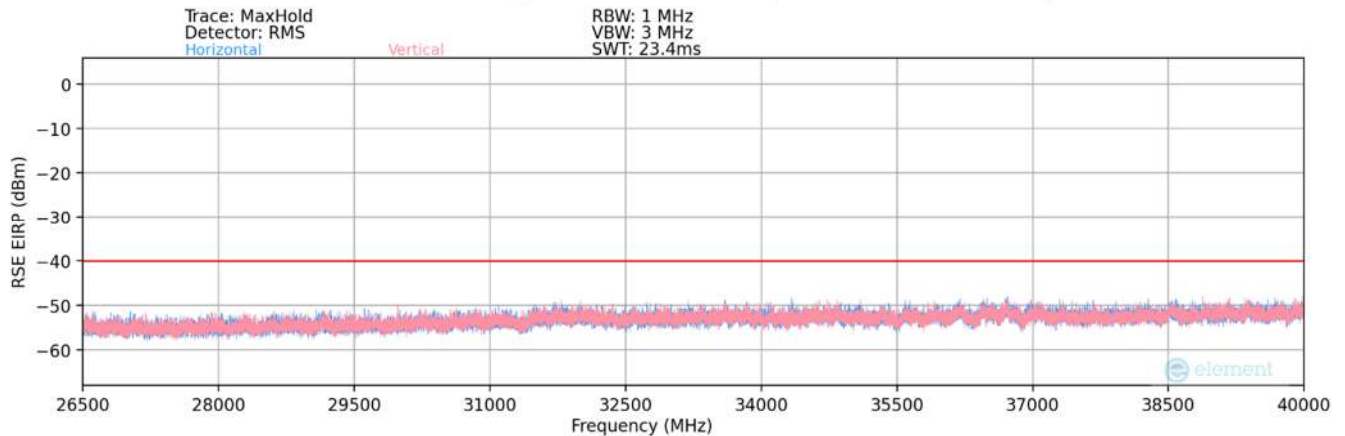


Table 7-28. Radiated Spurious Plot 26.5-40GHz (ULCA LTE Band 48 – Ant1)

FCC ID: A3LSMF776U	PART 96 MEASUREMENT REPORT	Test Dates: 3/4/2026 – 4/16/2026	EUT Type: Portable Handset	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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
170.18	H	-	-	-96.52	15.65	26.13	-71.28	-40.00	-31.28
557.98	H	-	-	-95.62	25.76	37.14	-60.27	-40.00	-20.27
848.83	H	-	-	-98.99	30.33	38.34	-59.07	-40.00	-19.07

Table 7-29. Radiated Spurious Data (ULCA LTE Band 48 – Mid Channel – Ant1)

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	-	-	-77.78	6.79	36.01	-59.25	-40.00	-19.25
10680.00	H	-	-	-78.54	10.68	39.14	-56.12	-40.00	-16.12
14240.00	H	-	-	-79.01	17.52	45.51	-49.75	-40.00	-9.75
17800.00	H	-	-	-78.05	23.83	52.78	-42.48	-40.00	-2.48
21360.00	H	-	-	-61.90	3.78	48.88	-55.92	-40.00	-15.92
24920.00	H	-	-	-61.73	3.73	49.00	-55.80	-40.00	-15.80
28480.00	H	-	-	-62.39	4.69	49.30	-55.50	-40.00	-15.50
32040.00	H	-	-	-62.55	7.30	51.75	-53.05	-40.00	-13.05

Table 7-30. Radiated Spurious Data (ULCA LTE Band 48 – Low Channel - Ant1)

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	162	44	-75.85	6.91	38.06	-57.20	-40.00	-17.20
10875.00	H	-	-	-78.68	10.34	38.66	-56.60	-40.00	-16.60
14500.00	H	-	-	-78.13	18.09	46.96	-48.30	-40.00	-8.30
18125.00	H	-	-	-60.87	1.17	47.30	-57.50	-40.00	-17.50
21750.00	H	-	-	-61.80	3.66	48.86	-55.94	-40.00	-15.94
25375.00	H	-	-	-61.67	3.77	49.10	-55.70	-40.00	-15.70
29000.00	H	-	-	-62.40	5.04	49.65	-55.15	-40.00	-15.15
32625.00	H	-	-	-62.39	6.65	51.27	-53.53	-40.00	-13.53

Table 7-31. Radiated Spurious Data (ULCA LTE Band 48 – Mid Channel - Ant1)

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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
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]
7380.00	H	159	50	-75.27	7.54	39.27	-55.99	-40.00	-15.99
11070.00	H	-	-	-79.69	11.31	38.62	-56.64	-40.00	-16.64
14760.00	H	-	-	-79.94	19.28	46.34	-48.92	-40.00	-8.92
18450.00	H	-	-	-60.75	1.13	47.39	-57.41	-40.00	-17.41
22140.00	H	-	-	-62.07	3.66	48.59	-56.21	-40.00	-16.21
25830.00	H	-	-	-61.71	3.80	49.10	-55.70	-40.00	-15.70
29520.00	H	-	-	-62.75	5.34	49.59	-55.21	-40.00	-15.21
33210.00	H	-	-	-62.41	7.11	51.69	-53.11	-40.00	-13.11

Table 7-32. Radiated Spurious Data (ULCA LTE Band 48 – High Channel - Ant1)

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NR Band n48 – Ant1

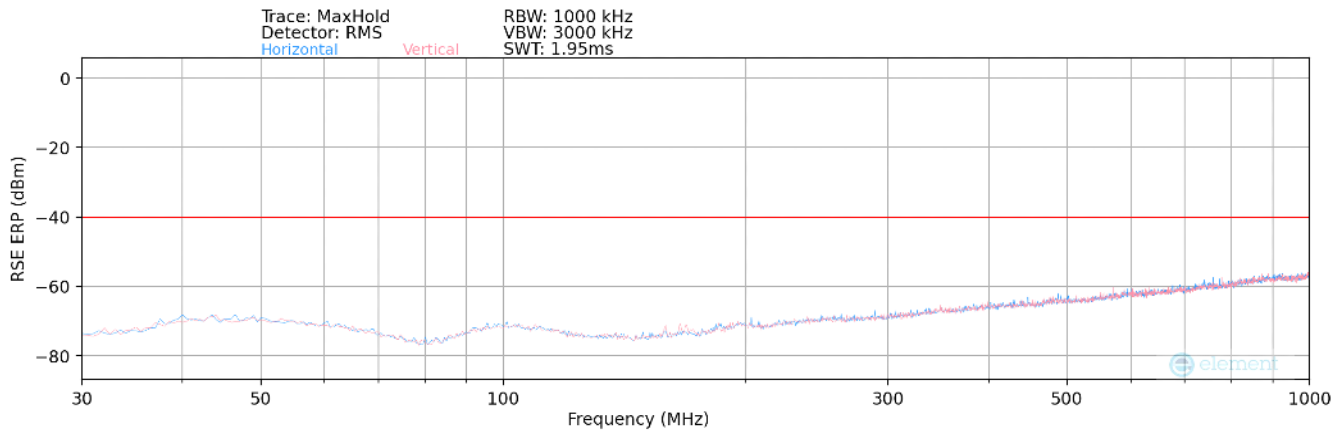


Table 7-33. Radiated Spurious Plot Below 1GHz (NR Band n48 – Ant1)

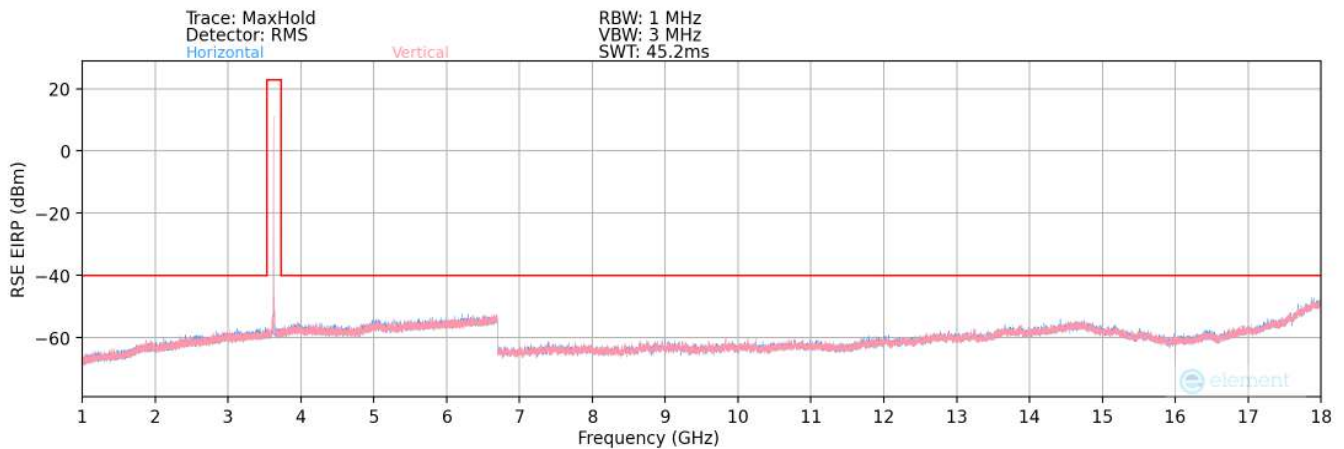


Table 7-34. Radiated Spurious Plot 1-18GHz (NR Band n48 – Ant1)

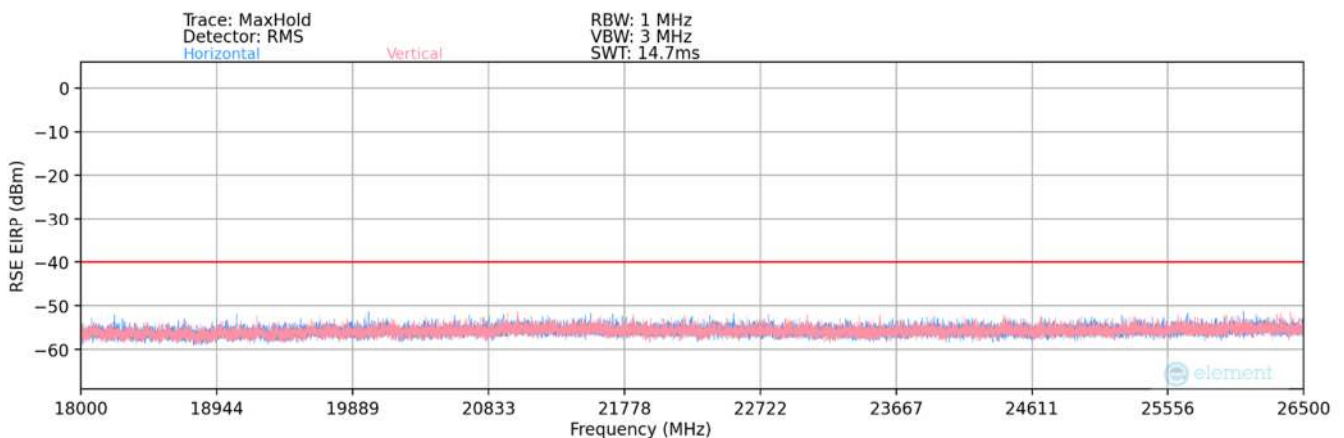


Table 7-35. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – Ant1)

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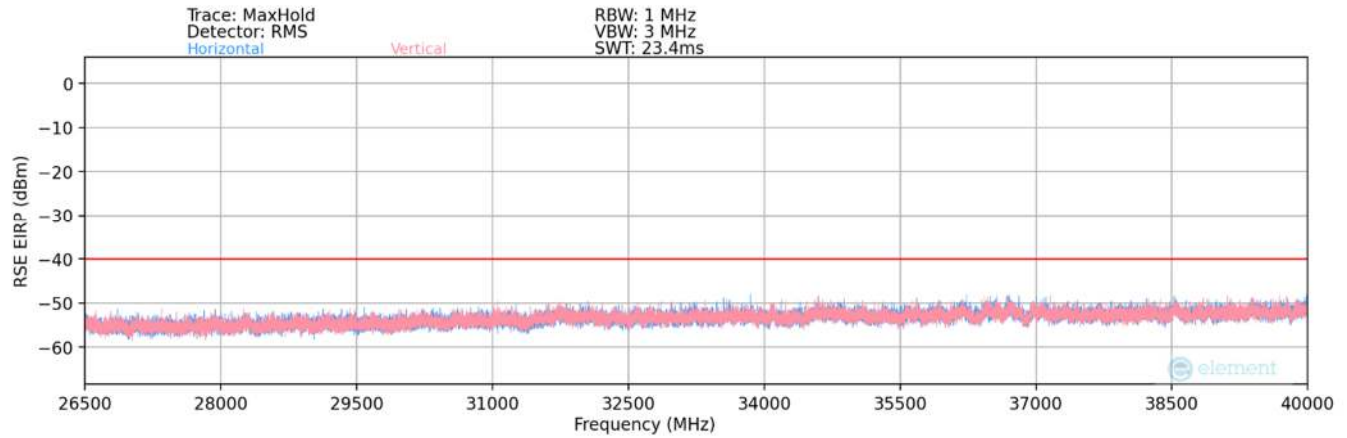


Table 7-36. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – Ant1)

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]
418.05	H	-	-	-99.53	23.51	30.98	-66.43	-40.00	-26.43
751.88	H	-	-	-99.25	29.05	36.80	-60.61	-40.00	-20.61
945.78	H	-	-	-98.17	30.77	39.60	-57.81	-40.00	-17.81

Table 7-37. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant1)

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	-	-	-77.06	6.61	36.55	-58.71	-40.00	-18.71
10710.00	H	-	-	-77.65	11.15	40.50	-54.75	-40.00	-14.75
14280.00	H	-	-	-78.25	17.64	46.39	-48.87	-40.00	-8.87
17850.00	H	-	-	-77.42	25.13	54.71	-40.55	-40.00	-0.55
21420.00	H	-	-	-61.96	3.78	48.82	-55.98	-40.00	-15.98
24990.00	H	-	-	-61.54	3.73	49.19	-55.61	-40.00	-15.61
28560.00	H	-	-	-62.50	4.69	49.19	-55.61	-40.00	-15.61
32130.00	H	-	-	-62.67	7.30	51.64	-53.16	-40.00	-13.16

Table 7-38. Radiated Spurious Data (NR Band n48 – Low Channel - Ant1)

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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	-	-	-77.45	6.91	36.46	-58.80	-40.00	-18.80
10875.00	H	-	-	-77.83	10.34	39.51	-55.75	-40.00	-15.75
14500.00	H	-	-	-77.92	18.09	47.17	-48.09	-40.00	-8.09
18125.00	H	-	-	-60.56	1.01	47.45	-57.35	-40.00	-17.35
21750.00	H	-	-	-61.95	3.59	48.64	-56.16	-40.00	-16.16
25375.00	H	-	-	-61.73	3.86	49.13	-55.67	-40.00	-15.67
29000.00	H	-	-	-62.76	5.05	49.29	-55.51	-40.00	-15.51
32625.00	H	-	-	-62.33	6.62	51.29	-53.51	-40.00	-13.51

Table 7-39. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant1)

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	-	-	-76.66	6.97	37.31	-57.95	-40.00	-17.95
11040.00	H	-	-	-77.52	10.67	40.15	-55.11	-40.00	-15.11
14720.00	H	-	-	-78.45	19.04	47.59	-47.66	-40.00	-7.66
18400.00	H	-	-	-60.67	1.13	47.46	-57.34	-40.00	-17.34
22080.00	H	-	-	-62.05	3.66	48.61	-56.19	-40.00	-16.19
25760.00	H	-	-	-61.70	3.80	49.10	-55.70	-40.00	-15.70
29440.00	H	-	-	-62.84	5.34	49.50	-55.30	-40.00	-15.30
33120.00	H	-	-	-62.44	7.09	51.65	-53.15	-40.00	-13.15

Table 7-40. Radiated Spurious Data (NR Band n48 – High Channel - Ant1)

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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26:2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

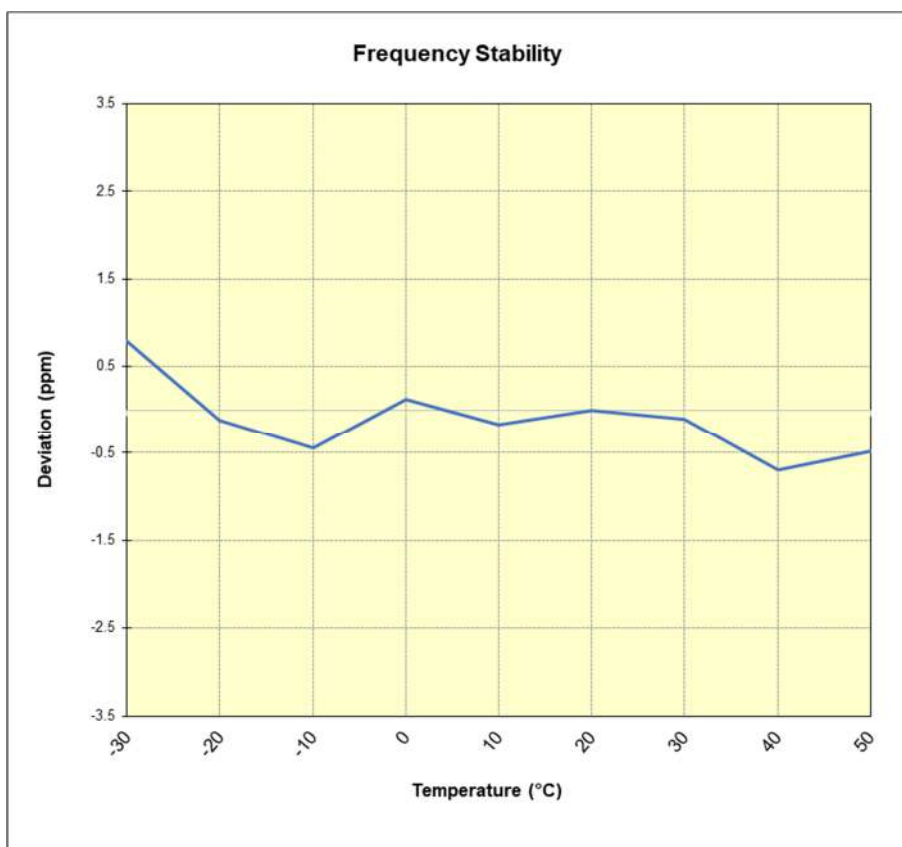
None

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Frequency Stability / Temperature Variation

LTE Band 48					
Operating Frequency (Hz):			3,625,000,000		
Ref. Voltage (VDC):			4.521		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.521	- 30	3,625,005,742	2,874	0.0000793
		- 20	3,625,002,466	-402	-0.0000111
		- 10	3,625,001,248	-1,620	-0.0000447
		0	3,625,003,324	456	0.0000126
		+ 10	3,625,002,267	-601	-0.0000166
		+ 20 (Ref)	3,625,002,868	0	0.0000000
		+ 30	3,625,002,471	-397	-0.0000110
		+ 40	3,625,000,356	-2,512	-0.0000693
		+ 50	3,625,001,145	-1,723	-0.0000475
Battery Endpoint	3.398	+ 20	3,625,000,842	-2,026	-0.0000559

Table 7-41. LTE Band 48 Frequency Stability Data



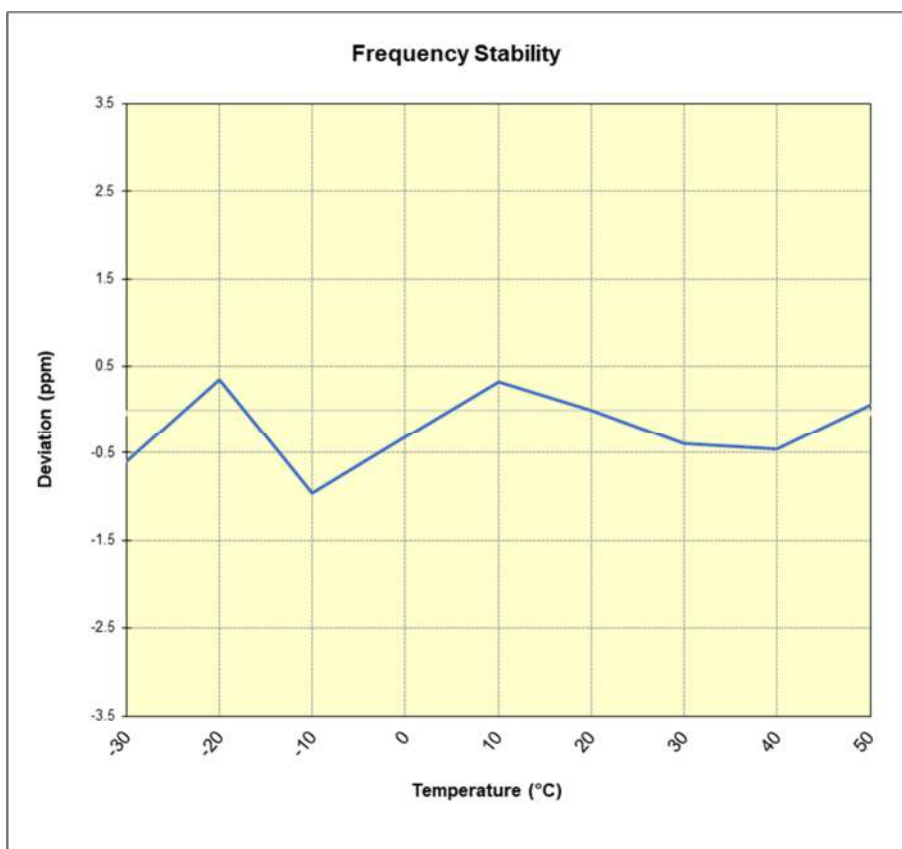
Plot 7-53. LTE Band 48 Frequency Stability Chart

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Frequency Stability / Temperature Variation

NR Band n48					
		Operating Frequency (Hz):		3,625,000,000	
		Ref. Voltage (VDC):		4.521	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.521	- 30	3,625,001,454	-2,170	-0.0000599
		- 20	3,625,004,886	1,262	0.0000348
		- 10	3,625,000,147	-3,477	-0.0000959
		0	3,625,002,474	-1,150	-0.0000317
		+ 10	3,625,004,786	1,162	0.0000321
		+ 20 (Ref)	3,625,003,624	0	0.0000000
		+ 30	3,625,002,178	-1,446	-0.0000399
		+ 40	3,625,001,957	-1,667	-0.0000460
		+ 50	3,625,003,846	222	0.0000061
Battery Endpoint	3.398	+ 20	3,625,003,529	-95	-0.0000026

Table 7-42. NR Band n48 Frequency Stability Data



Plot 7-54. NR Band n48 Frequency Stability Chart

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7.9 End User Device Additional Requirement (CBSD Protocol)

Test Overview and Limit

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified LTE CBSD (Ruckus FCC ID: S9GQ910US00) or to a certified NR CBSD (FCC ID: PIDAV2700) as a companion device to show compliance with Part 96.47.

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

Test Procedure Used

KDB 940660 D01 v03, WINNF-18-IN-00178 v1.0.0.00

Test Setup/Method

The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRs CBSD Test Specification.

1. Run#1:
 - a. Setup WINNF.PT.C.HBT.1 with 3615MHz – 3635MHz.
 - b. Enable AP service from Ruckus Cloud management.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Ruckus Cloud management and check EUT stop transmission within 10s.
2. Run#2:
 - a. Setup WINNF.PT.C.HBT.1 with 3660MHz – 3680MHz.
 - b. Enable AP service from Ruckus Cloud management.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Ruckus Cloud management and check EUT stop transmission within 10s.

Test Notes

The EUT is an End User Device.

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Run#1:



Plot 7-55. Run#1 End User Device Frequency of Operations



Plot 7-56. Run#1 End User Device Discontinues Operations within 10s

Note:

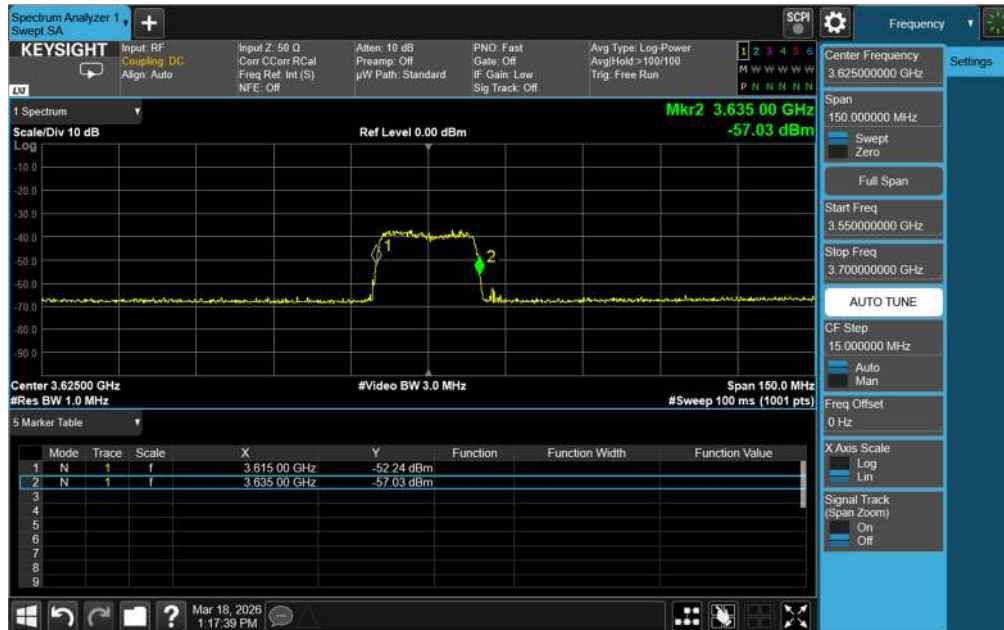
Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

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Run#2:



Note:

- Marker 1: CBSD sends instructions to discontinue LTE operations.
- Marker 2: EUT discontinues operation.
- Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF776U** complies with all of the End User Device requirements of Part 96 of the FCC Rules for LTE and NR operation only.

- END OF TEST REPORT -

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