

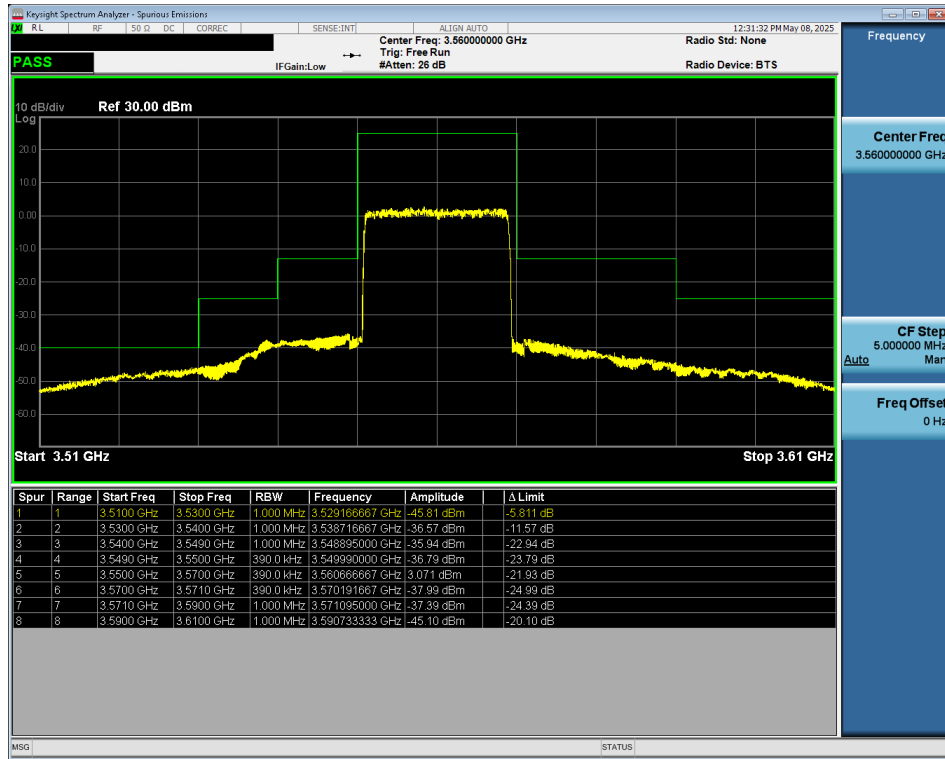
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B48	20 MHz	Low	Band Edge	-45.81	-40	-5.81
		Mid	Band Edge	-45.27	-25	-20.27
		High	Band Edge	-44.46	-40	-4.46
	15 MHz	Low	Band Edge	-46.38	-40	-6.38
		Mid	Band Edge	-38.97	-25	-13.97
		High	Band Edge	-46.16	-40	-6.16
	10 MHz	Low	Band Edge	-51.23	-40	-11.23
		Mid	Band Edge	-42.85	-25	-17.85
		High	Band Edge	-52.26	-40	-12.26
	5 MHz	Low	Band Edge	-53.83	-40	-13.83
		Mid	Band Edge	-41.90	-25	-16.90
		High	Band Edge	-55.19	-40	-15.19
NR-n48	40MHz	Low	Band Edge	-44.86	-40	-4.86
		Mid	Band Edge	-40.79	-25	-15.79
		High	Band Edge	-41.45	-40	-1.45
	30MHz	Low	Band Edge	-44.96	-40	-4.96
		Mid	Band Edge	-44.34	-25	-19.34
		High	Band Edge	-37.30	-25	-12.30
	20MHz	Low	Band Edge	-46.40	-40	-6.40
		Mid	Band Edge	-42.21	-25	-17.21
		High	Band Edge	-47.03	-40	-7.03
	15MHz	Low	Band Edge	-49.47	-40	-9.47
		Mid	Band Edge	-45.96	-25	-20.96
		High	Band Edge	-46.09	-40	-6.09
	10MHz	Low	Band Edge	-50.25	-40	-10.25
		Mid	Band Edge	-42.61	-25	-17.61
		High	Band Edge	-50.13	-40	-10.13

Table 7-23. Conducted Band Edge Test Results – Ant1

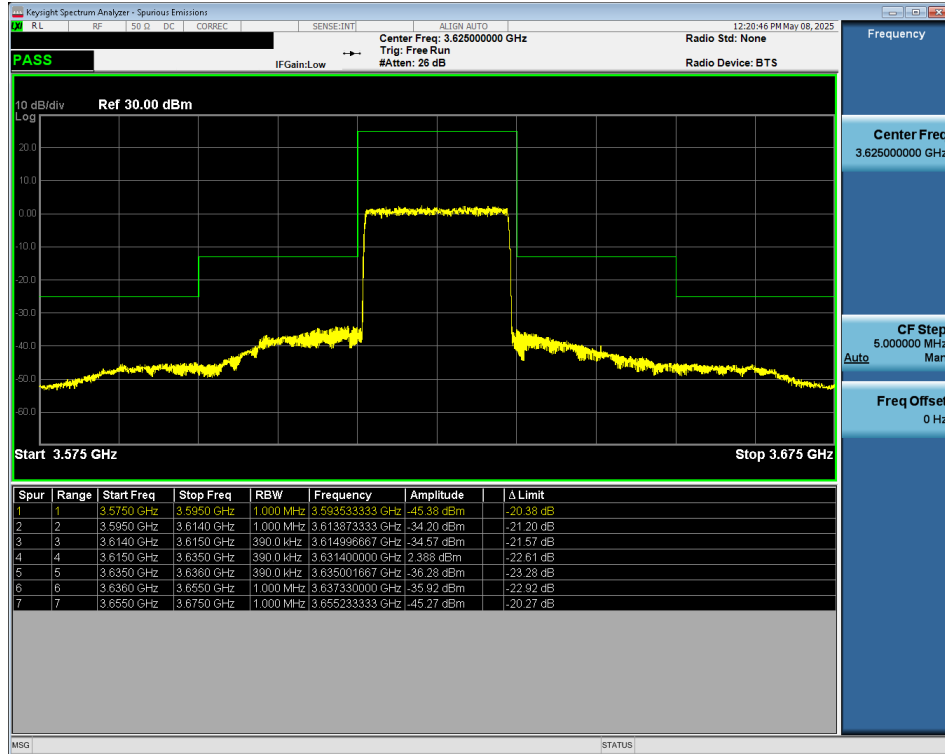
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 48 – Ant1

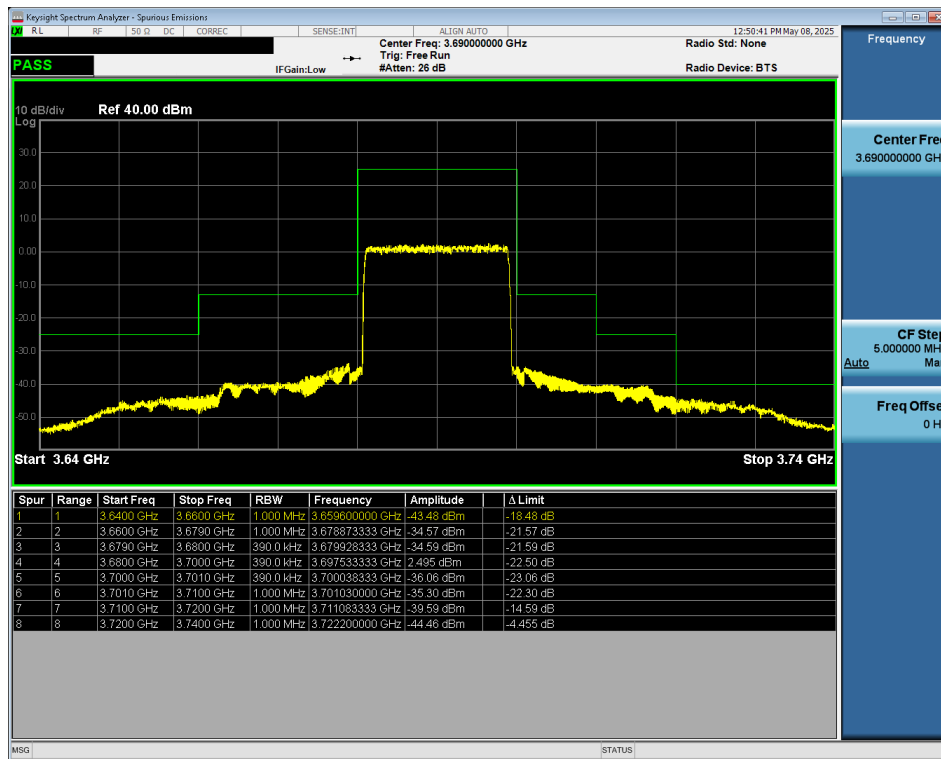


Plot 7-113. Channel - Ant1 Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel - Ant1)



Plot 7-114. Channel - Ant1 Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)

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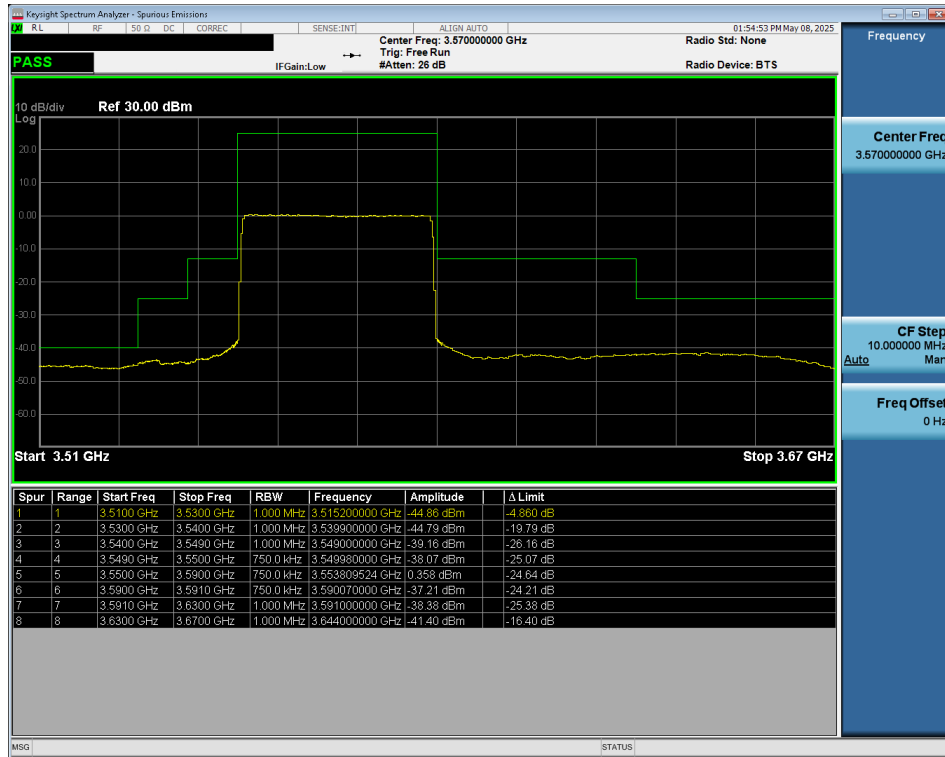


Plot 7-115. Channel - Ant1 Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel - Ant1)

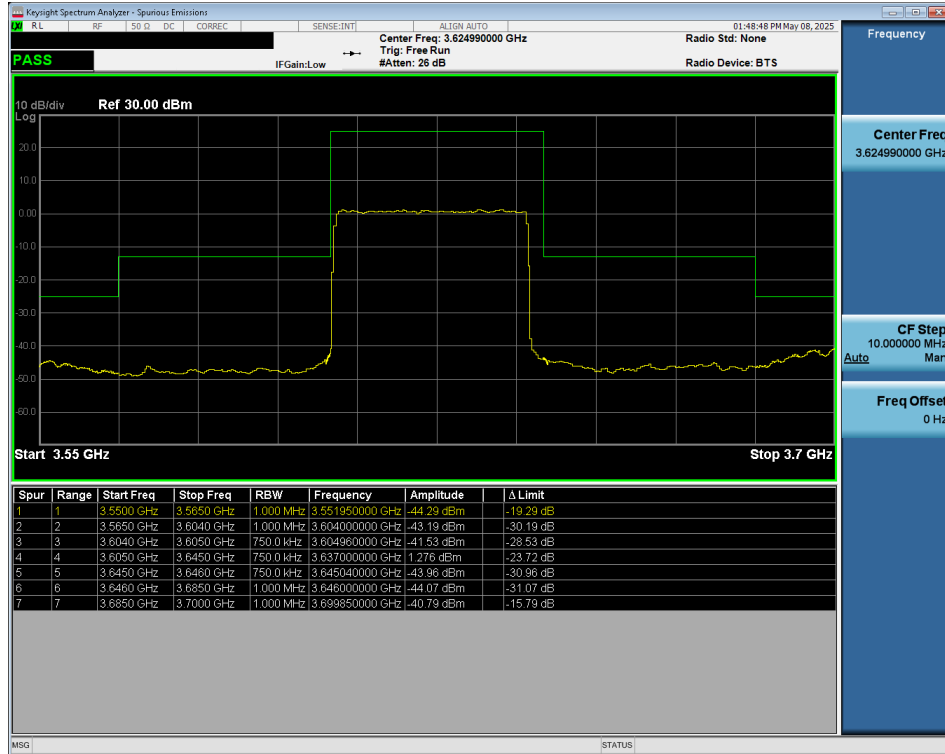
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant1

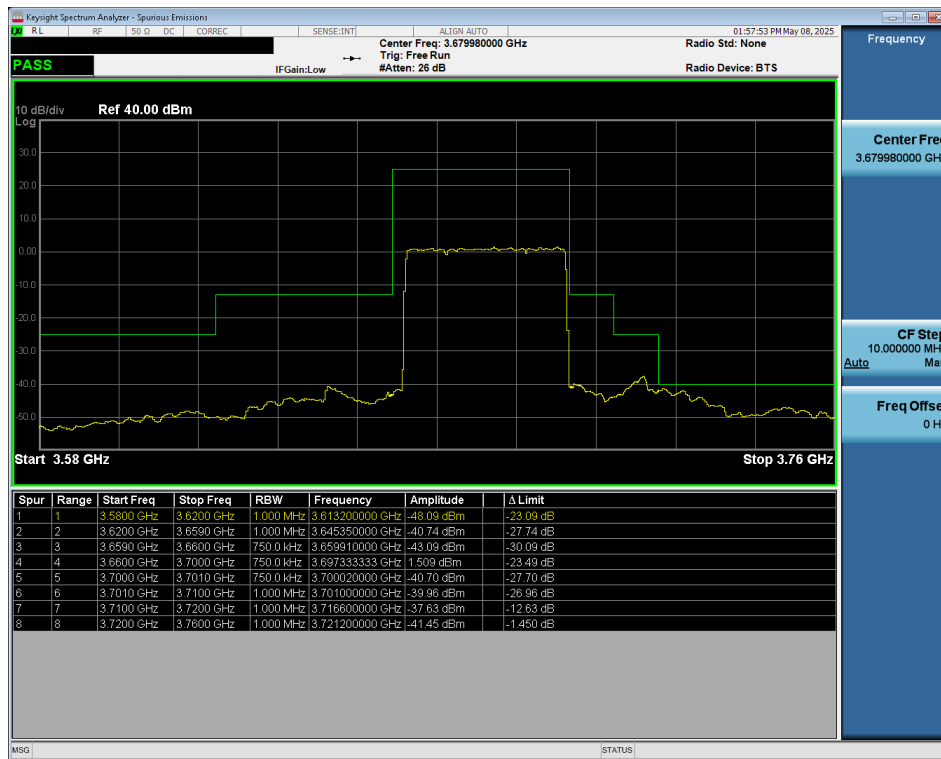


Plot 7-116. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Low Channel - Ant1)



Plot 7-117. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Mid Channel - Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-118. Channel Edge Plot (NR Band n48 - 20MHz QPSK - High Channel - Ant1)

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	Band Edge	-41.00	-40	-1.00
		Mid	Band Edge	-38.85	-13	-25.85
		High	Band Edge	-41.14	-40	-1.14

Table 7-24. Conducted Band Edge Test Results – SRS Ant3

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	Band Edge	-50.55	-40	-10.55
		Mid	Band Edge	-37.64	-13	-24.64
		High	Band Edge	-54.64	-40	-14.64

Table 7-25. Conducted Band Edge Test Results – SRS Ant4

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	Band Edge	-44.46	-40	-4.46
		Mid	Band Edge	-41.30	-25	-16.30
		High	Band Edge	-40.50	-40	-0.50

Table 7-26. Conducted Band Edge Test Results – UL MIMO Ant6

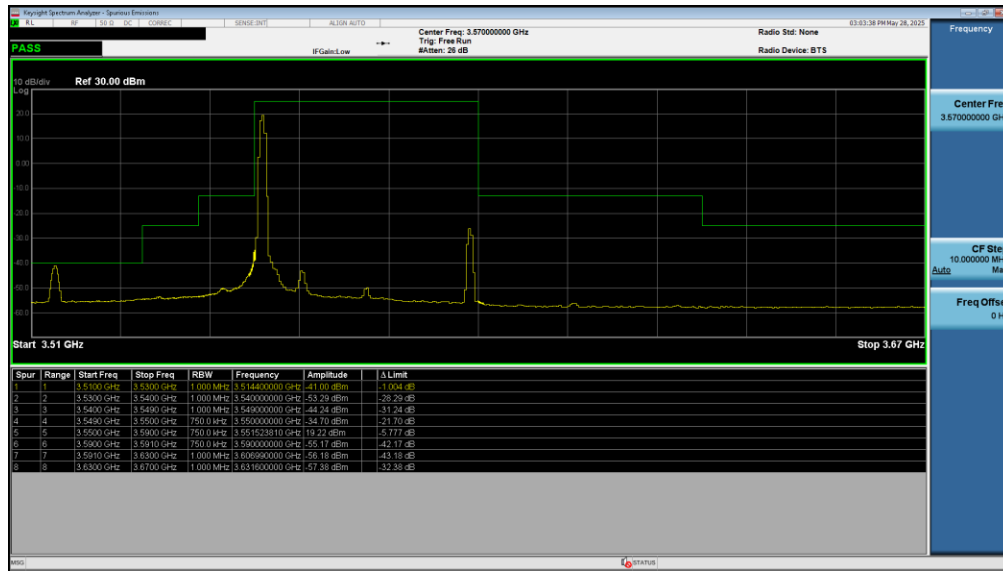
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n48	40MHz	Low	Band Edge	-46.73	-40	-6.73
		Mid	Band Edge	-39.60	-25	-14.60
		High	Band Edge	-41.14	-40	-1.14

Table 7-27. Conducted Band Edge Test Results – UL MIMO Ant1

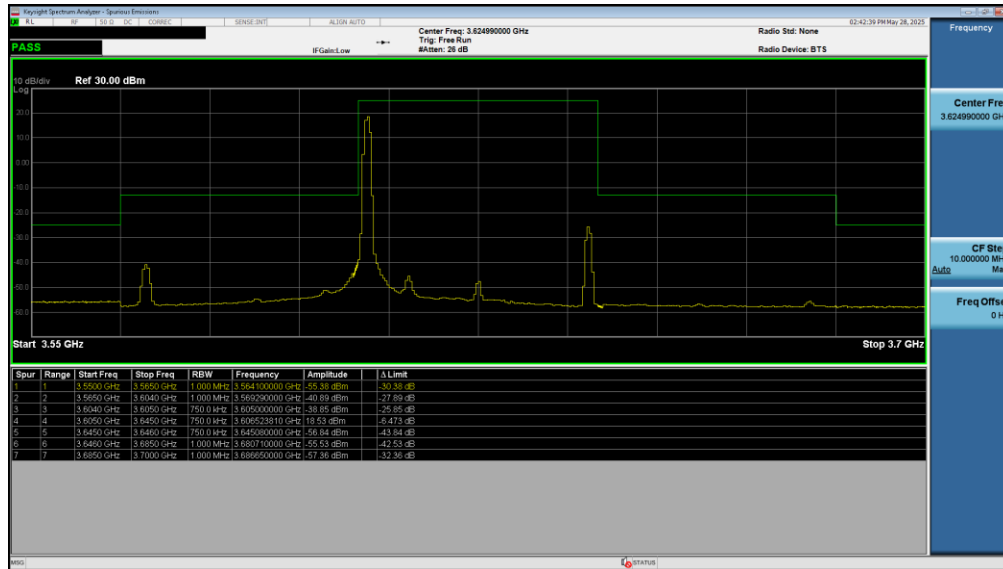
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – SRS Ant3

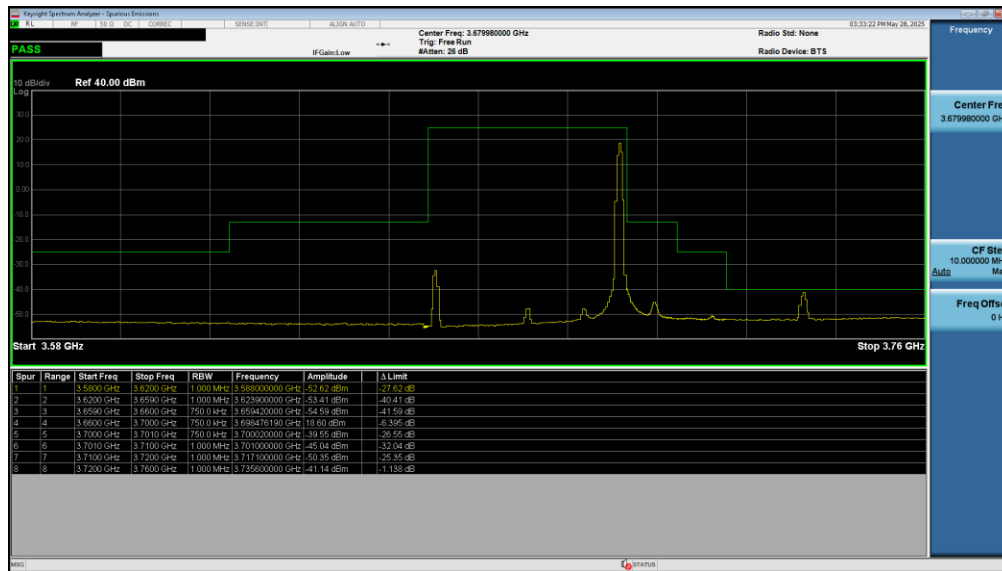


Plot 7-119. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel – SRS Ant3)



Plot 7-120. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel – SRS Ant3)

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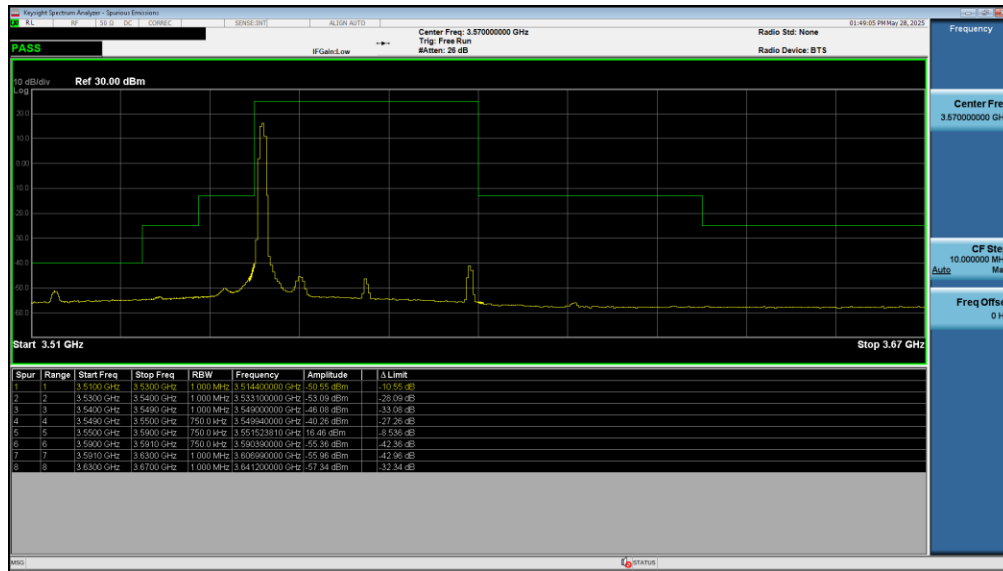


Plot 7-121. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel A-MRP- SRS Ant3)

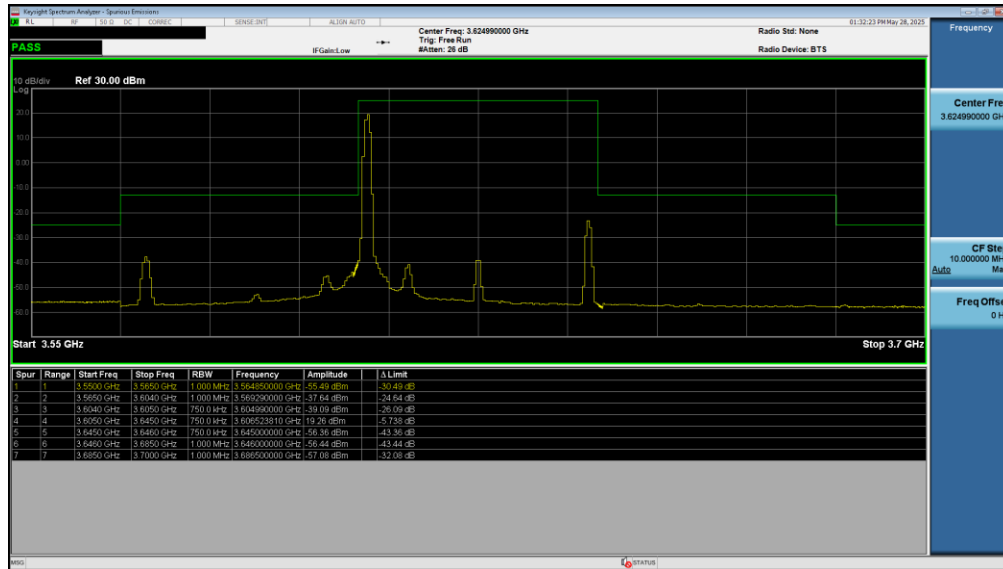
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – SRS Ant4

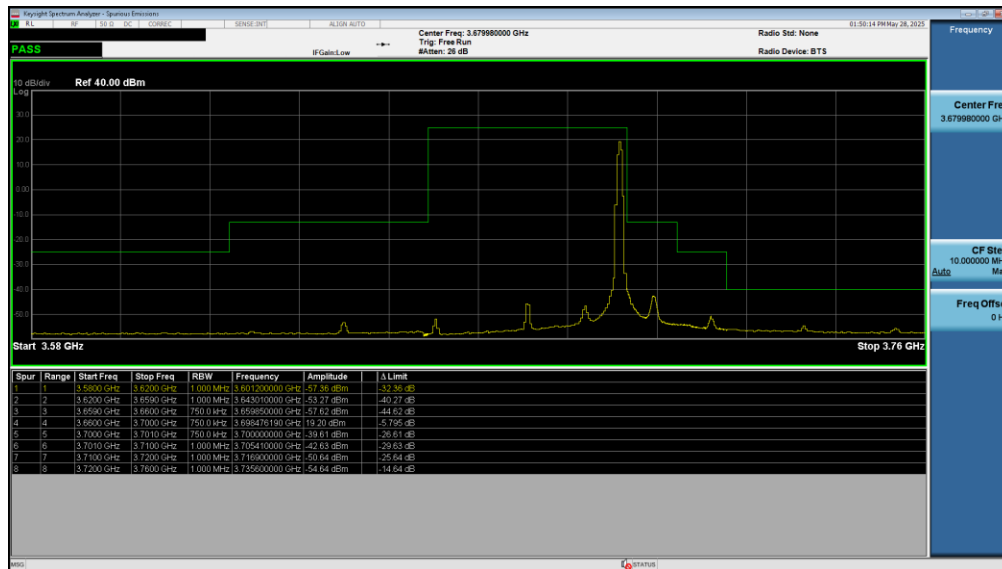


Plot 7-122. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel – SRS Ant4)



Plot 7-123. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel – SRS Ant4)

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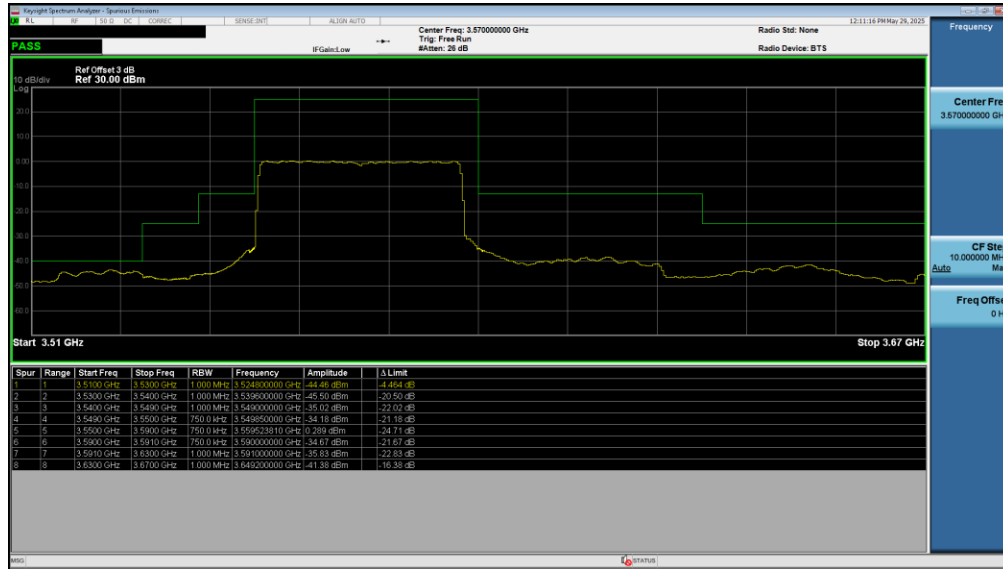


Plot 7-124. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel A-MPR- SRS Ant4)

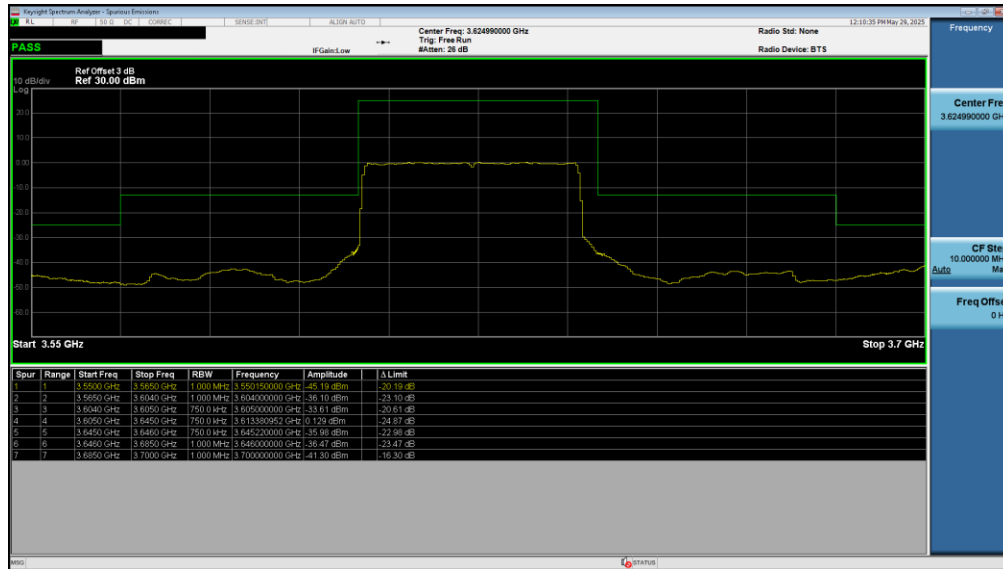
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 101 of 146



NR Band n48 – UL MIMO Ant6

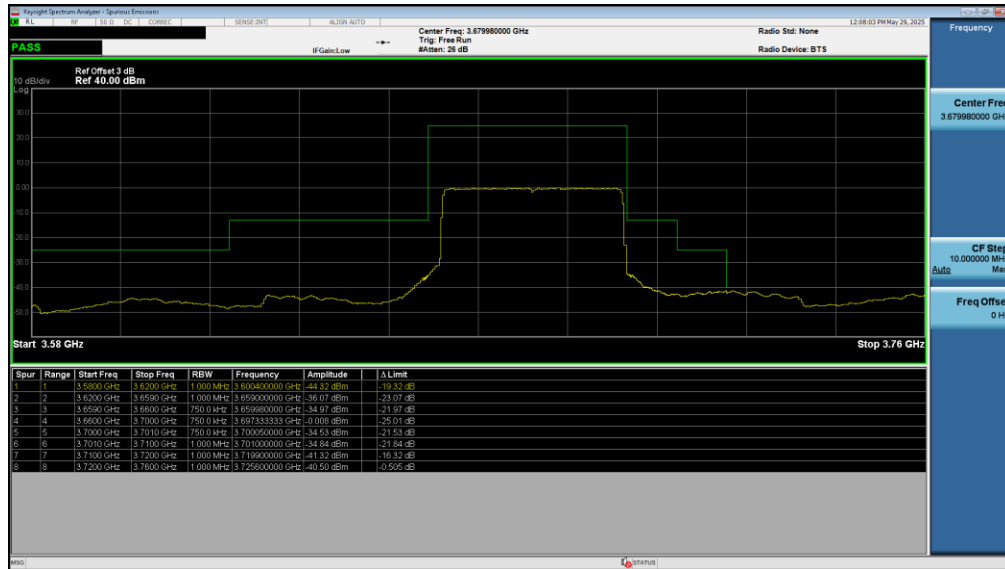


Plot 7-125. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel – UL MIMO Ant6)



Plot 7-126. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel – UL MIMO Ant6)

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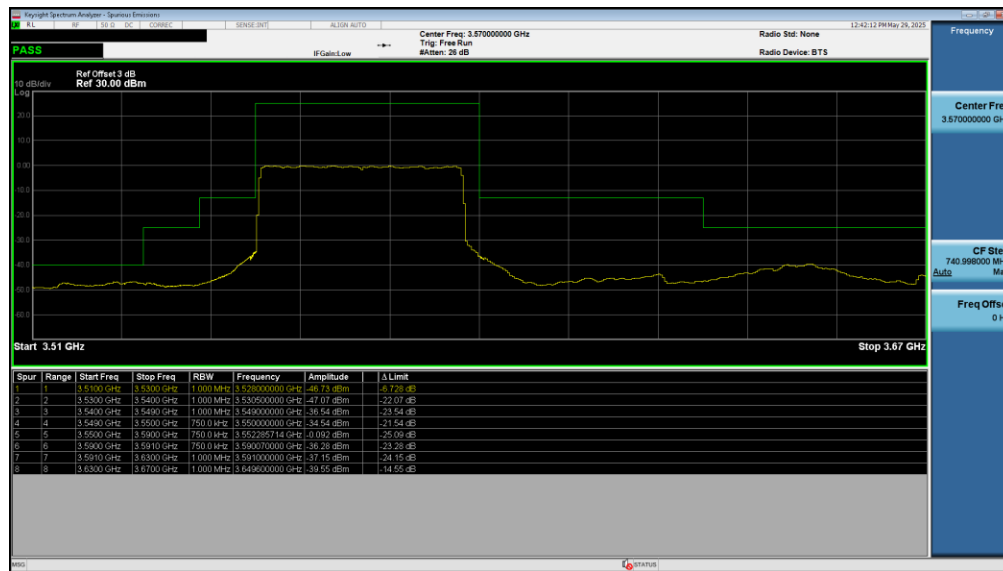


Plot 7-127. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel A-MPR– UL MIMO Ant6)

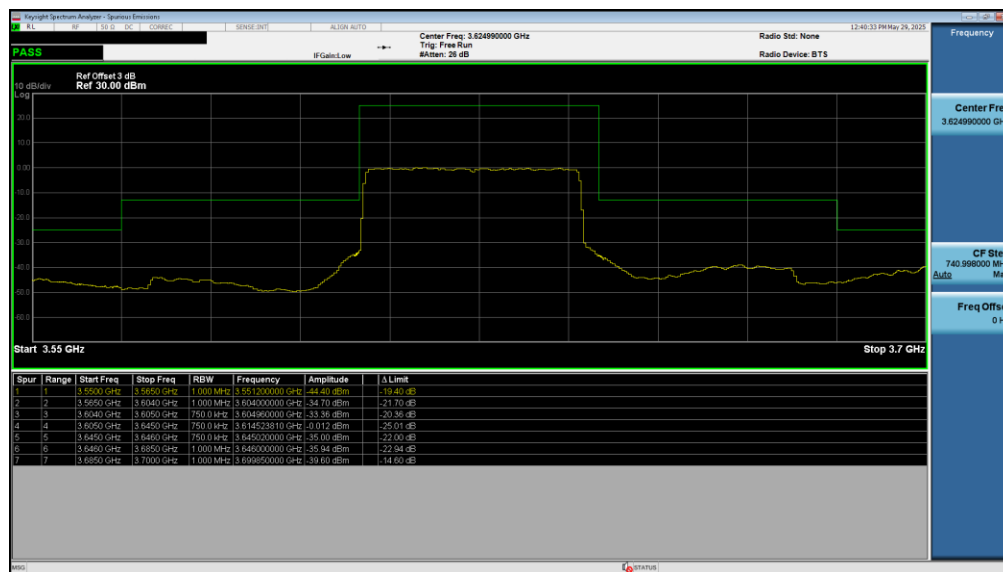
FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – UL MIMO Ant1

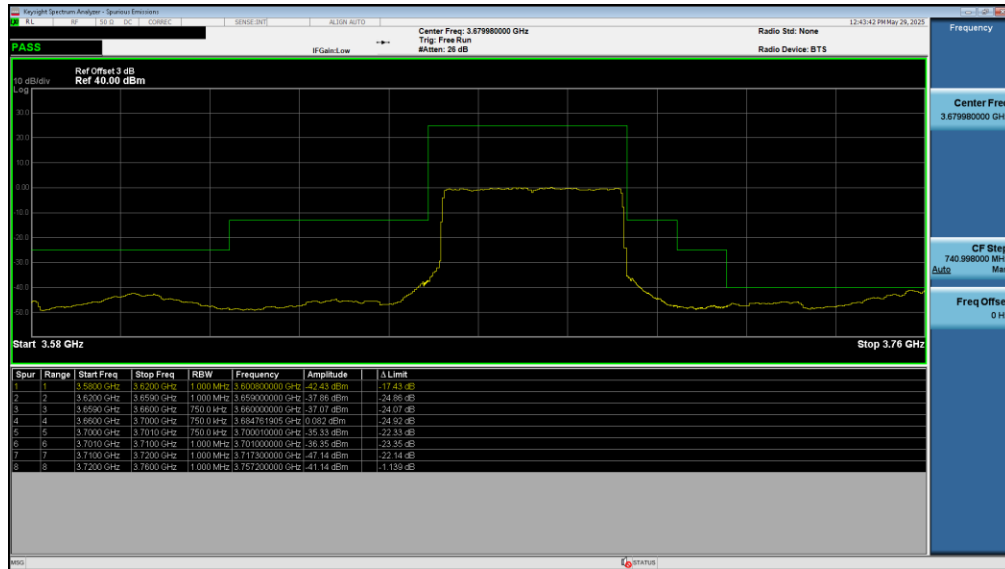


Plot 7-128. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel – UL MIMO Ant1)



Plot 7-129. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel – UL MIMO Ant1)

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Plot 7-130. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel A-MPR- UL MIMO Ant1)

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7.6 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.

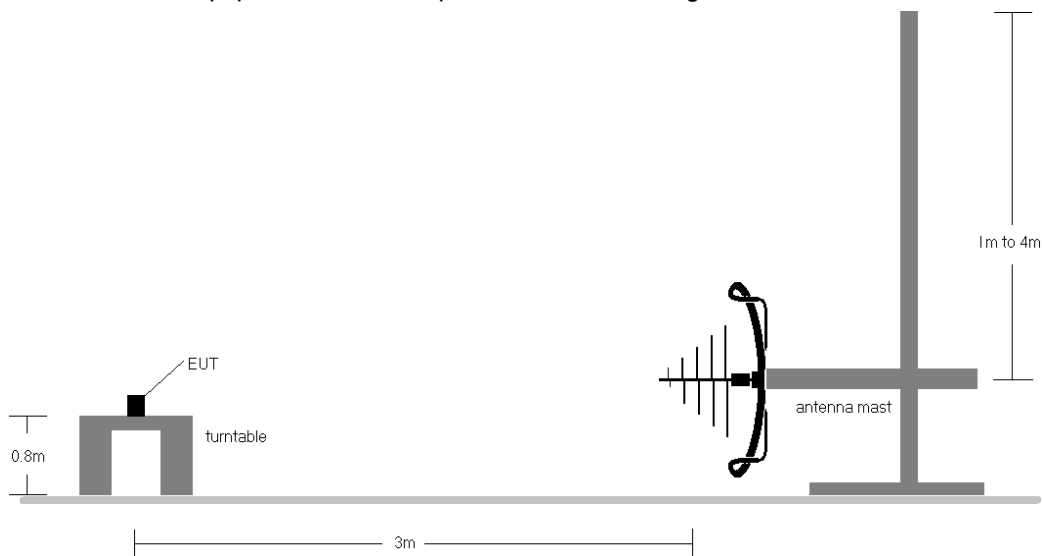


Figure 7-5. Test Instrument & Measurement Setup < 1GHz

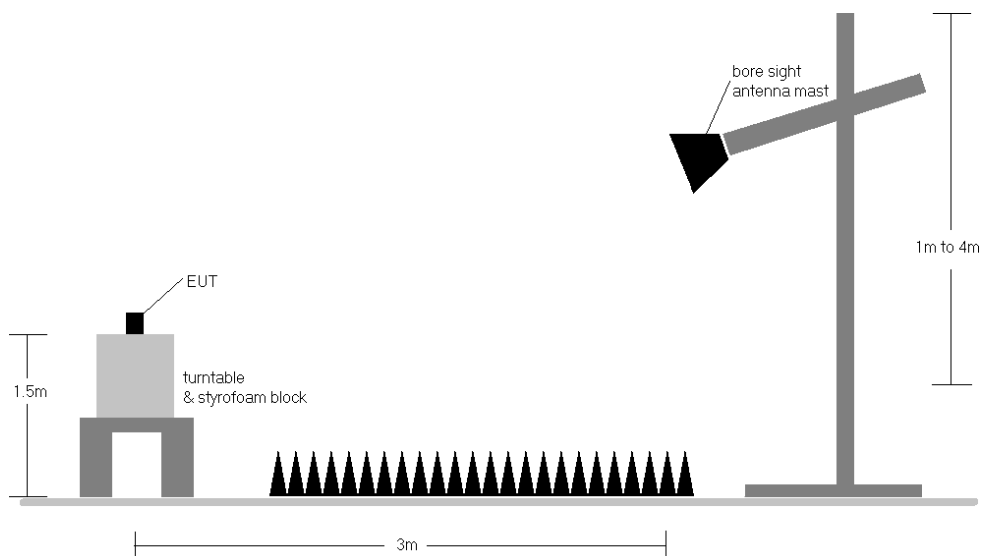


Figure 7-6. Test Instrument & Measurement Setup >1 GHz

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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.

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LTE Band 48 – Ant6

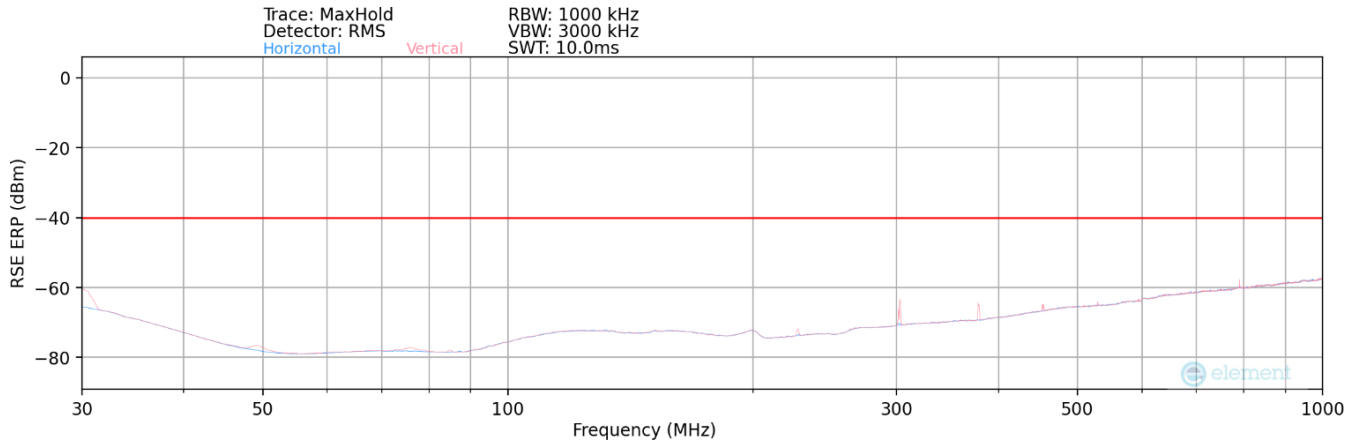


Table 7-28. Radiated Spurious Plot Below 1GHz (LTE Band 48 – Ant6)

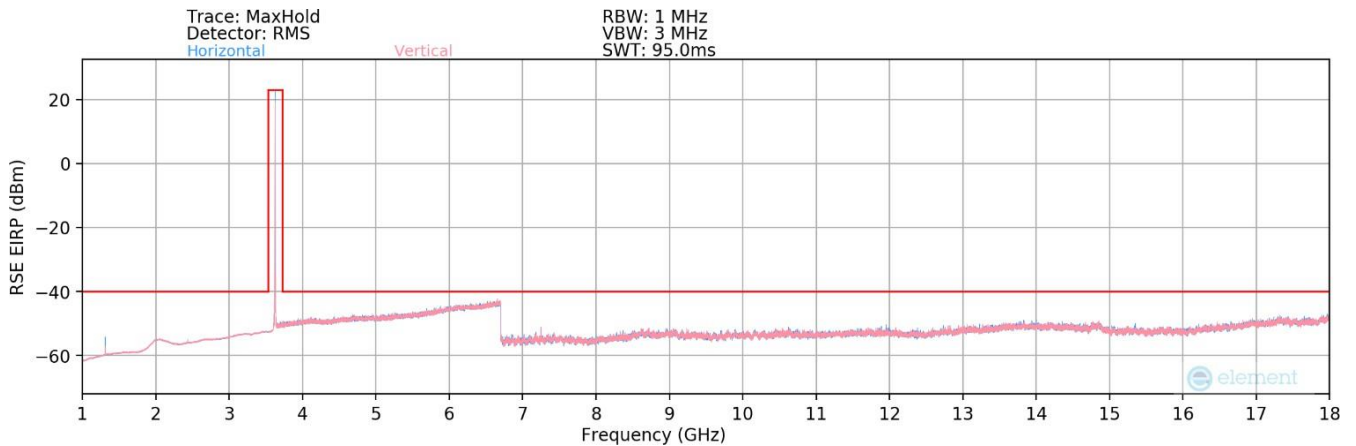


Table 7-29. Radiated Spurious Plot 1-18GHz (LTE Band 48 – Ant6)

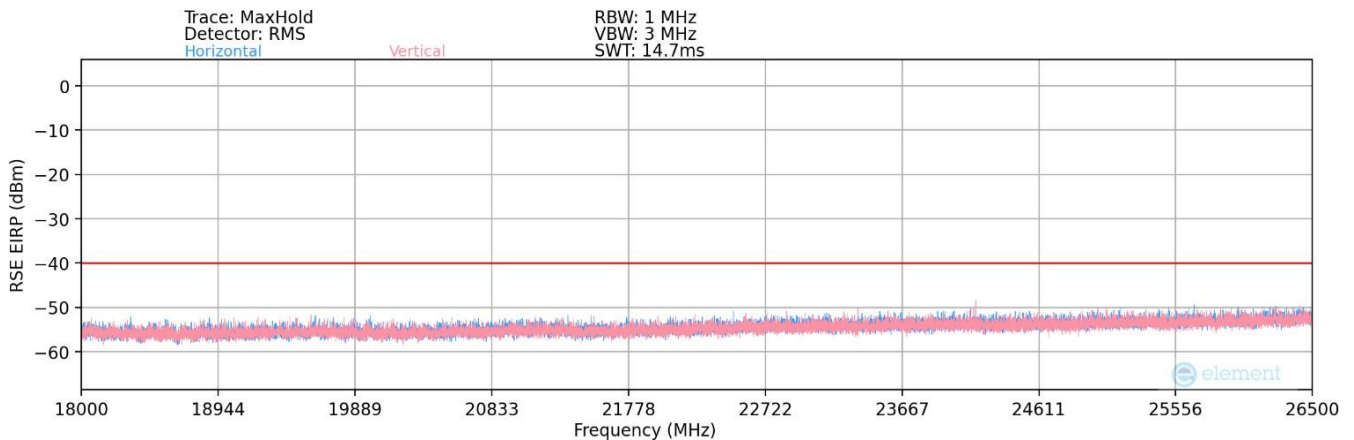


Table 7-30. Radiated Spurious Plot 18-25.5GHz (LTE Band 48 – Ant6)

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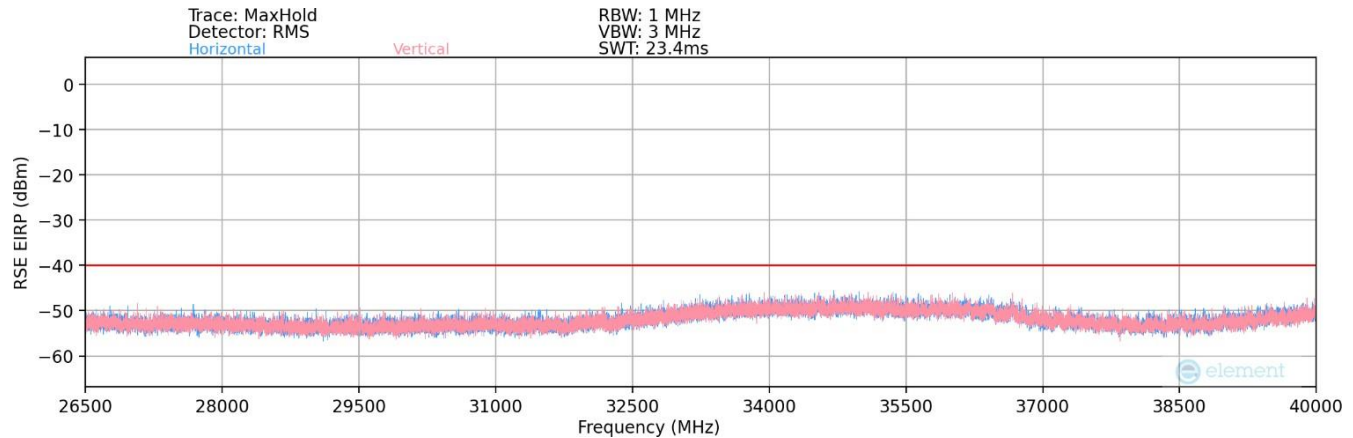


Table 7-31. Radiated Spurious Plot 26.5-40GHz (LTE Band 48 – Ant6)

Bandwidth (MHz):	20
Frequency (MHz):	3360.0
Modulation Signal:	QPSK
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]
51.00	V	-	-	-92.15	14.56	29.41	-68.00	-40.00	-28.00
301.96	V	138	140	-89.92	21.23	38.31	-59.10	-40.00	-19.10
379.31	V	-	-	-91.59	22.78	38.19	-59.22	-40.00	-19.22
511.69	V	-	-	-90.96	26.10	42.14	-55.27	-40.00	-15.27
612.01	V	-	-	-90.97	27.12	43.15	-54.26	-40.00	-14.26

Table 7-32. Radiated Spurious Data (LTE Band 48 – Mid Channel – Ant6)

Bandwidth (MHz):	20
Frequency (MHz):	3360.0
Modulation Signal:	QPSK
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	V	-	-	-79.29	9.70	37.41	-57.85	-40.00	-17.85
10680.00	V	162	155	-75.08	13.08	45.00	-50.26	-40.00	-10.26
14240.00	V	-	-	-79.56	15.38	42.82	-52.44	-40.00	-12.44
17800.00	V	-	-	-80.94	17.11	43.17	-52.08	-40.00	-12.08

Table 7-33. Radiated Spurious Data (LTE Band 48 – Low Channel - Ant6)

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Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
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	V	247	157	-73.52	9.31	42.79	-52.47	-40.00	-12.47
10875.00	V	157	128	-71.94	12.69	47.75	-47.51	-40.00	-7.51
14500.00	V	-	-	-79.81	15.58	42.77	-52.49	-40.00	-12.49

Table 7-34. Radiated Spurious Data (LTE Band 48 – Mid Channel - Ant6)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
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	V	-	-	-79.63	10.14	37.51	-57.75	-40.00	-17.75
11070.00	V	142	172	-78.47	12.63	41.16	-54.10	-40.00	-14.10
14760.00	V	-	-	-81.53	15.48	40.95	-54.31	-40.00	-14.31

Table 7-35. Radiated Spurious Data (LTE Band 48 – High Channel - Ant6)

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ULCA LB48 – Ant6

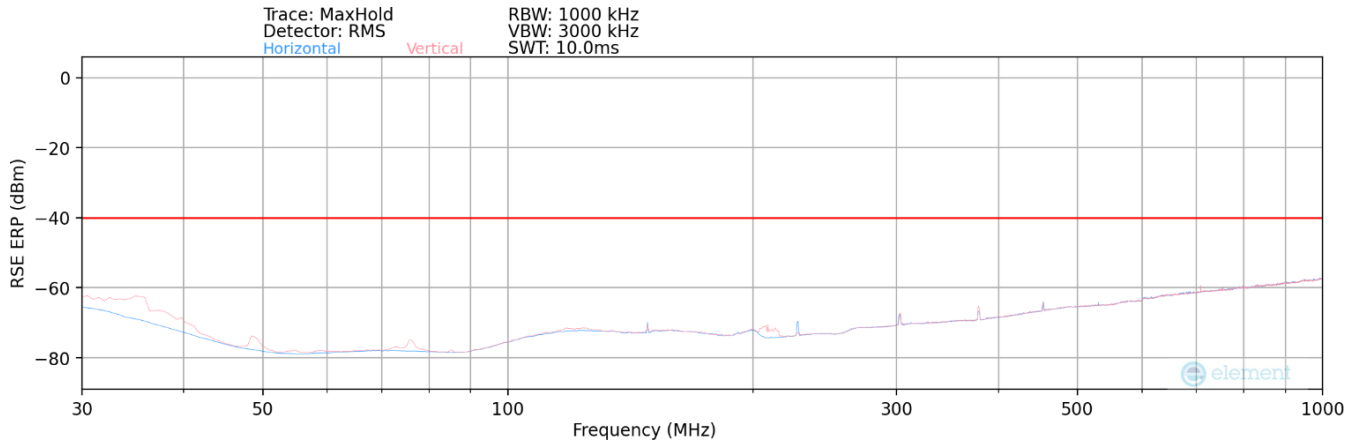


Table 7-36. Radiated Spurious Plot Below 1GHz (ULCA LB48 – Ant6)

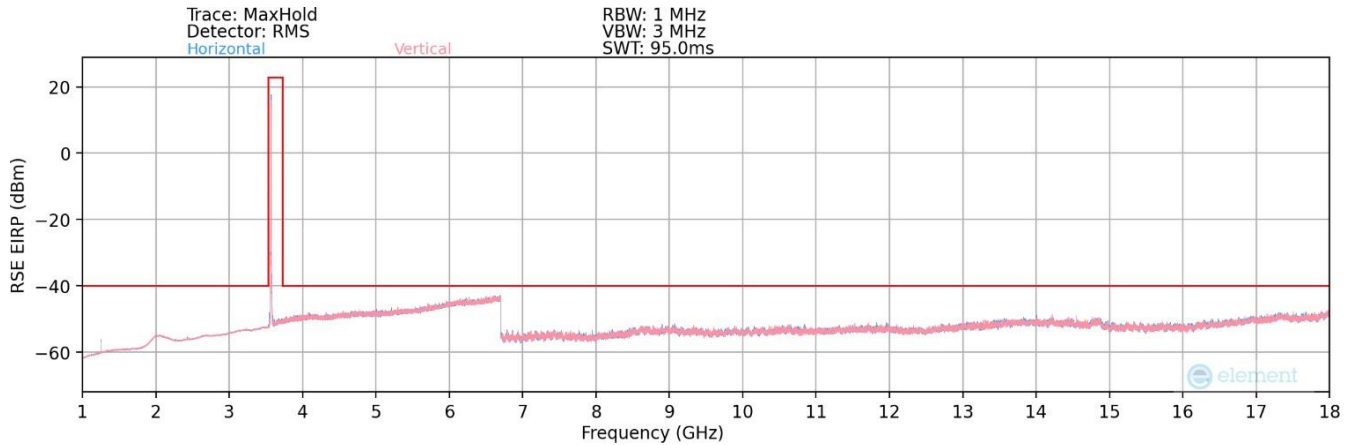


Table 7-37. Radiated Spurious Plot 1-18GHz (ULCA LB48 – Mid Channel – Ant6)

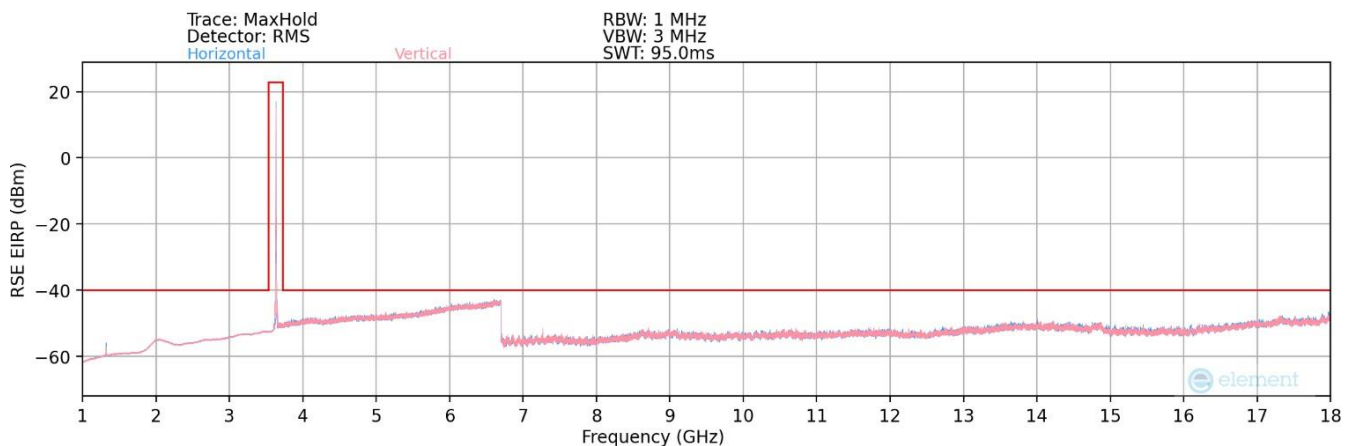


Table 7-38. Radiated Spurious Plot -18GHz (ULCA LB48 – Mid Channel – Ant6)

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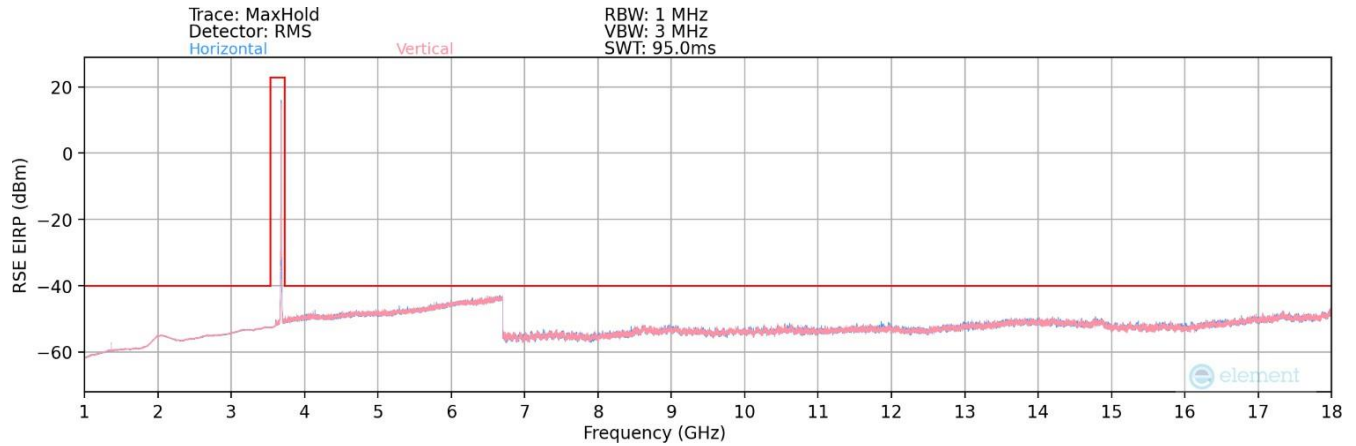


Table 7-39. Radiated Spurious Plot -18GHz (ULCA LB48 – High Channel – Ant6)

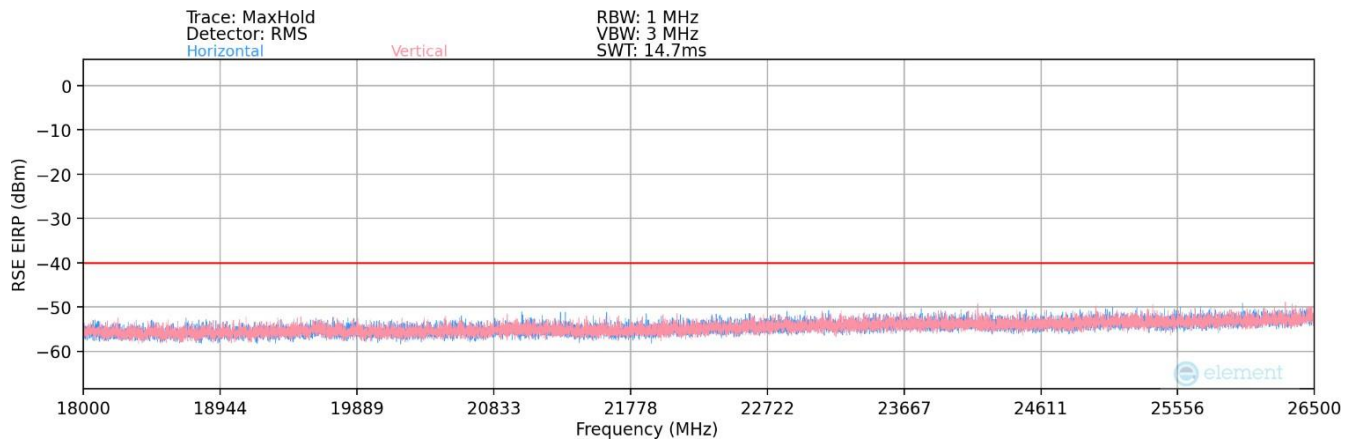


Table 7-40. Radiated Spurious Plot 18-26.5GHz (ULCA LB48 – Ant6)

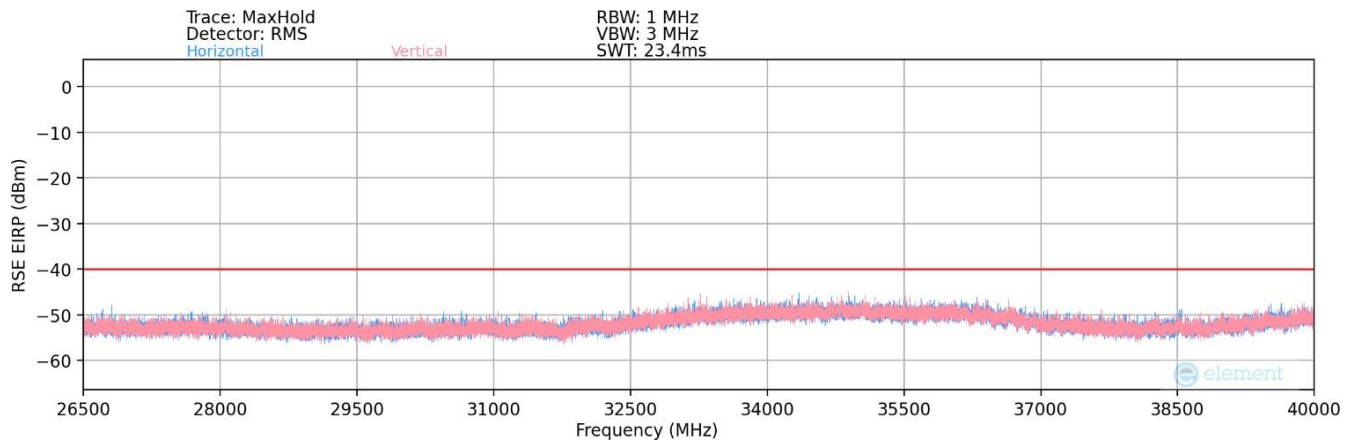


Table 7-41. Radiated Spurious Plot 26.5-40GHz (ULCA LB48 – Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 113 of 146

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
Modulation Signal:	QPSK

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]
51.40	V	-	-	-87.21	14.48	34.27	-63.14	-40.00	-23.14
80.83	V	-	-	-86.72	14.51	34.79	-62.62	-40.00	-22.62
376.86	V	-	-	-85.42	22.73	44.31	-53.10	-40.00	-13.10
702.18	V	-	-	-85.38	28.84	50.46	-46.95	-40.00	-6.95

Table 7-42. Radiated Spurious Data (ULCA LB48 – Mid Channel – Ant6)

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
Modulation Signal:	QPSK

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	262	192	-76.58	9.93	40.35	-54.91	-40.00	-14.91
10710.00	V	265	166	-75.74	13.11	44.37	-50.89	-40.00	-10.89
14280.00	V	-	-	-79.79	13.11	40.32	-54.94	-40.00	-14.94
17850.00	V	-	-	-80.48	15.55	42.07	-53.19	-40.00	-13.19
21420.00	V	-	-	-58.21	2.91	51.70	-53.10	-40.00	-13.10

Table 7-43. Radiated Spurious Data (ULCA LB48 – Low Channel - Ant6)

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
Modulation Signal:	QPSK

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]
7270.00	V	249	158	-72.89	9.31	43.42	-51.84	-40.00	-11.84
10905.00	V	150	128	-78.27	12.69	41.42	-53.84	-40.00	-13.84
14540.00	V	-	-	-80.50	15.58	42.08	-53.18	-40.00	-13.18
18175.00	V	-	-	-56.32	1.21	51.89	-52.91	-40.00	-12.91
21810.00	V	-	-	-57.49	2.87	52.38	-52.42	-40.00	-12.42

Table 7-44. Radiated Spurious Data (ULCA LB48 – Mid Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 114 of 146

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
Modulation Signal:	QPSK

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	256	157	-76.33	10.14	40.81	-54.45	-40.00	-14.45
11040.00	V	147	142	-78.74	12.63	40.89	-54.37	-40.00	-14.37
14720.00	V	-	-	-80.24	15.48	42.24	-53.02	-40.00	-13.02
18400.00	V	-	-	-56.54	0.98	51.44	-53.36	-40.00	-13.36
22080.00	V	-	-	-56.73	3.24	53.50	-51.30	-40.00	-11.30

Table 7-45. Radiated Spurious Data (ULCA LB48 – High Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 115 of 146

NR Band n48 – Ant6

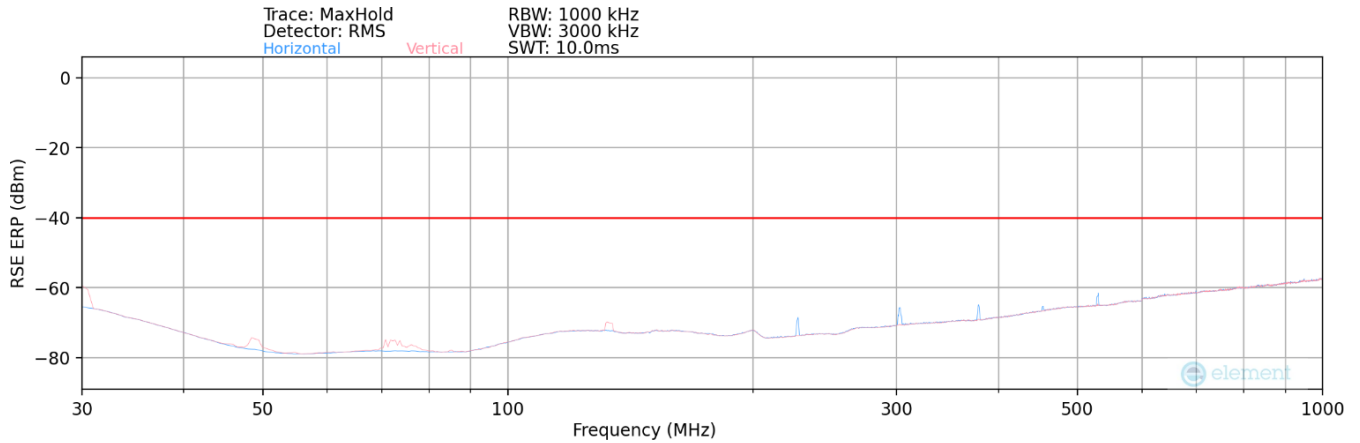


Table 7-46. Radiated Spurious Plot Below 1GHz (NR Band n48 – Ant6)

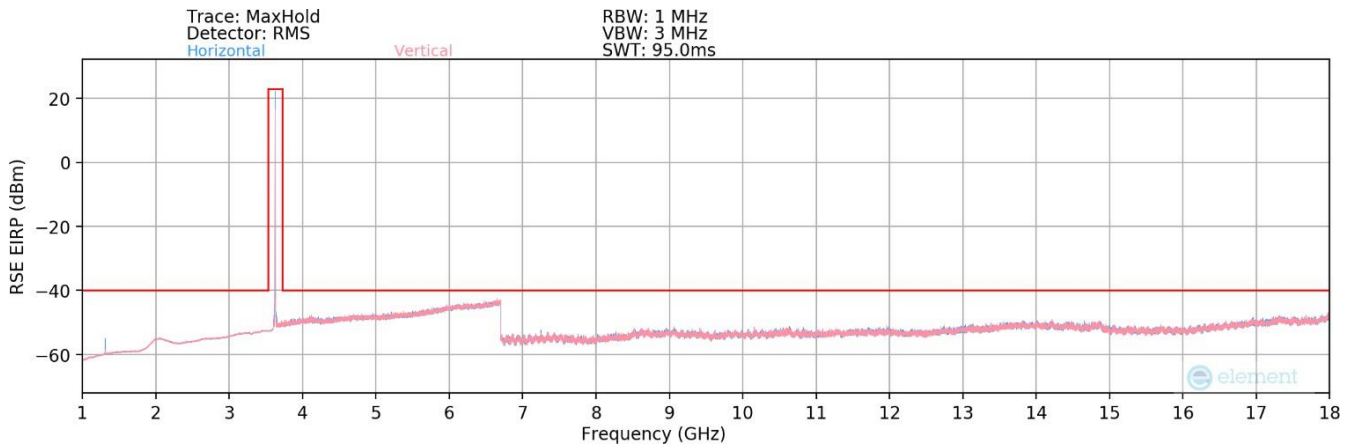


Table 7-47. Radiated Spurious Plot 1-18GHz (NR Band n48 – Ant6)

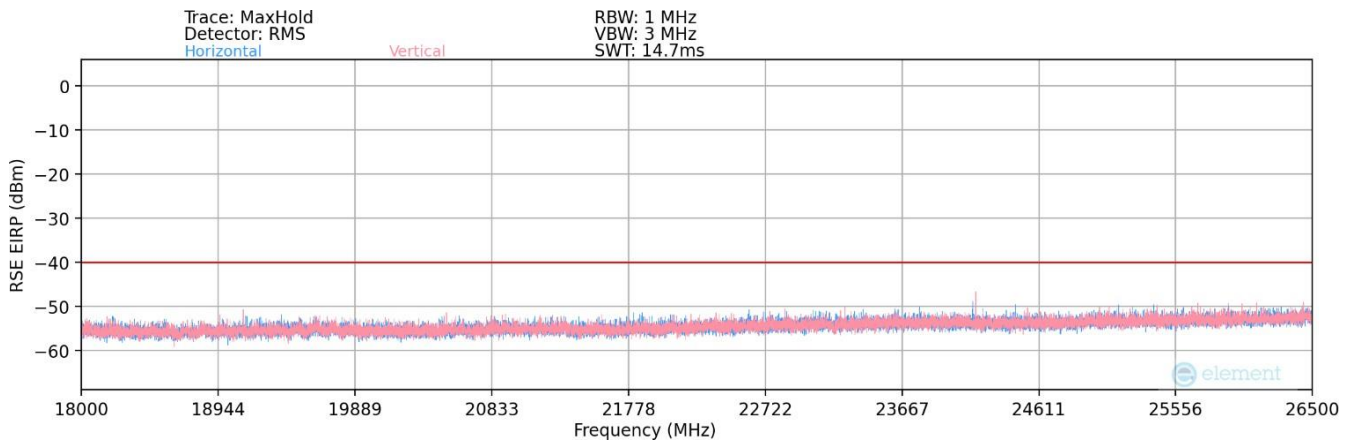


Table 7-48. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 116 of 146

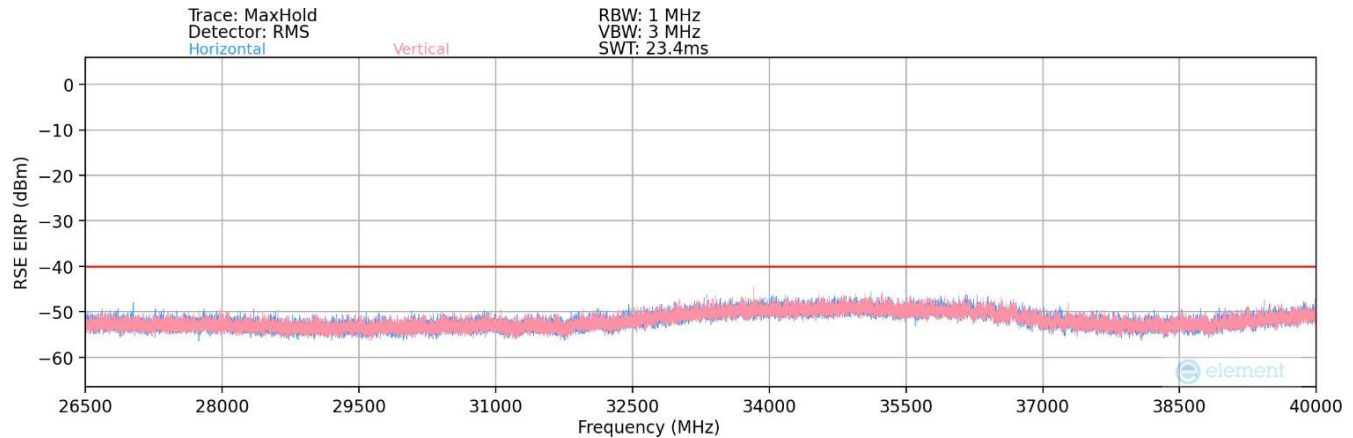


Table 7-49. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – Ant6)

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
Modulation Signal:	QPSK

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]
51.40	V	-	-	-87.21	14.48	34.27	-63.14	-40.00	-23.14
80.83	V	-	-	-86.72	14.51	34.79	-62.62	-40.00	-22.62
376.86	V	-	-	-85.42	22.73	44.31	-53.10	-40.00	-13.10
702.18	V	-	-	-85.38	28.84	50.46	-46.95	-40.00	-6.95

Table 7-50. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant6)

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
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	-	-	-80.00	9.93	36.93	-58.33	-40.00	-18.33
10710.00	H	385	231	-72.30	13.11	47.81	-47.45	-40.00	-7.45
14280.00	H	-	-	-80.12	15.55	42.43	-52.83	-40.00	-12.83
17850.00	H	-	-	-81.52	17.47	42.95	-52.31	-40.00	-12.31
21420.00	H	-	-	-65.47	2.91	44.45	-60.35	-40.00	-20.35

Table 7-51. Radiated Spurious Data (NR Band n48 – Low Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 117 of 146

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
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	334	63	-71.60	9.31	44.71	-50.55	-40.00	-10.55
10875.00	H	151	67	-78.42	12.69	41.27	-53.99	-40.00	-13.99
14500.00	H	-	-	-81.11	15.58	41.47	-53.79	-40.00	-13.79
18125.00	H	-	-	-63.69	1.10	44.41	-60.39	-40.00	-20.39
21750.00	H	-	-	-65.45	2.78	44.33	-60.47	-40.00	-20.47

Table 7-52. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant6)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
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	342	15	-75.19	9.83	41.64	-53.62	-40.00	-13.62
11040.00	H	142	252	-77.44	12.52	42.08	-53.18	-40.00	-13.18
14720.00	H	-	-	-81.78	15.11	40.33	-54.93	-40.00	-14.93
18400.00	H	-	-	-64.32	0.98	43.66	-61.14	-40.00	-21.14
22080.00	H	-	-	-65.03	3.24	45.20	-59.60	-40.00	-19.60

Table 7-53. Radiated Spurious Data (NR Band n48 – High Channel - Ant6)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 118 of 146

LTE Band 48 – Ant1

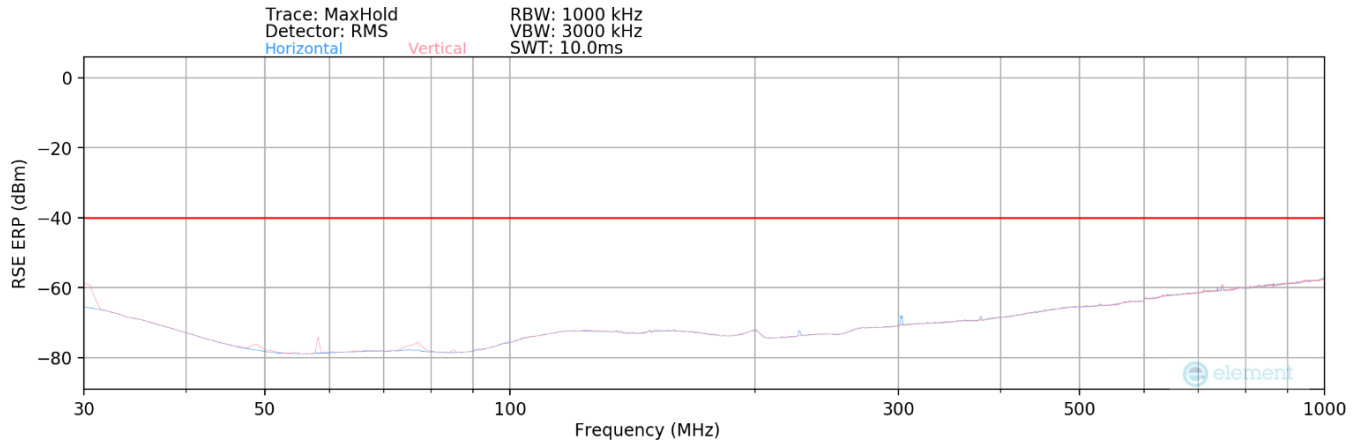


Table 7-54. Radiated Spurious Plot Below 1GHz (LTE Band 48 – Ant1)

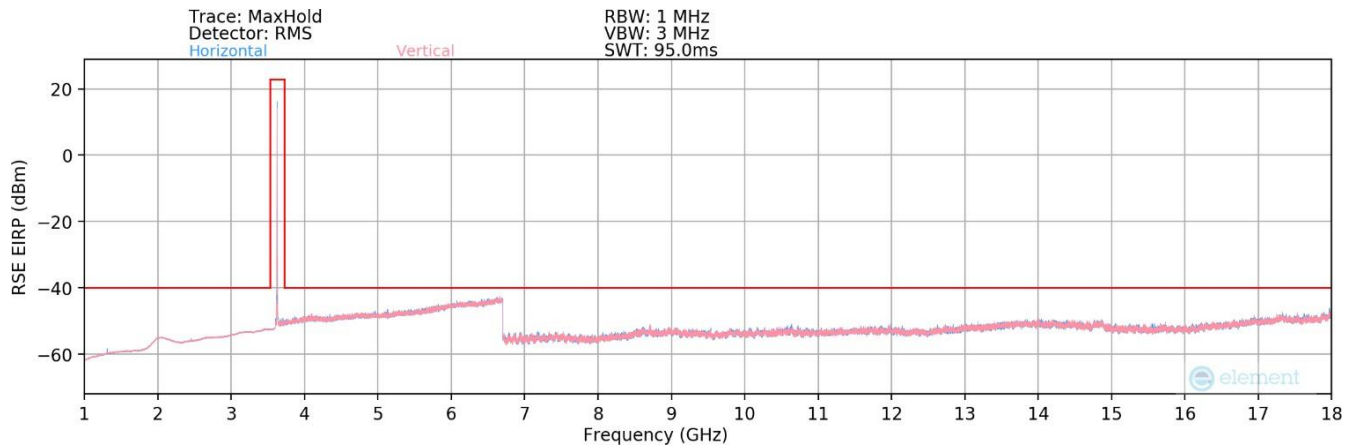


Table 7-55. Radiated Spurious Plot 1-18GHz (LTE Band 48 – Ant1)

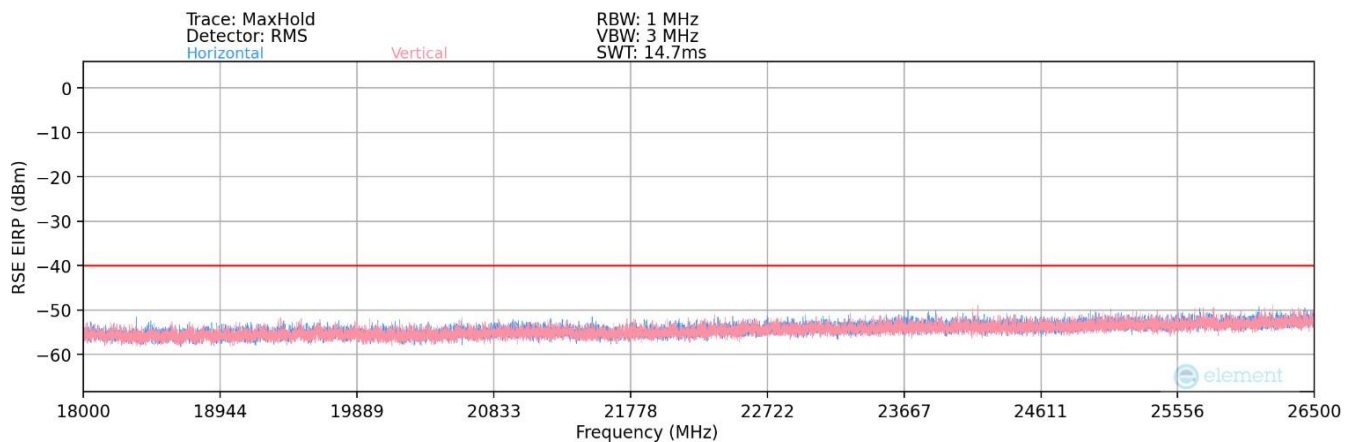


Table 7-56. Radiated Spurious Plot 18-25.5GHz (LTE Band 48 – Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 119 of 146

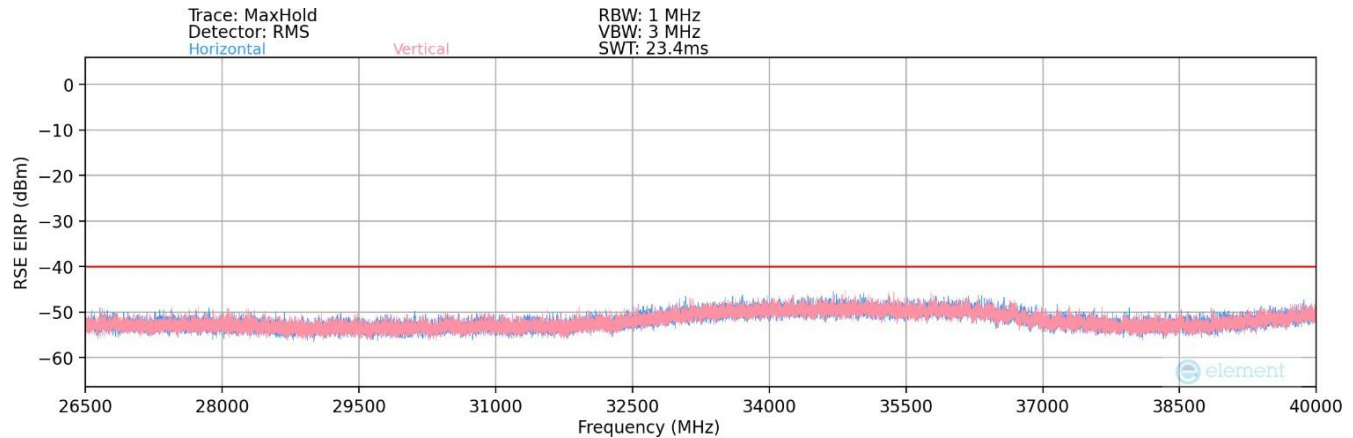


Table 7-57. Radiated Spurious Plot 26.5-40GHz (LTE Band 48 – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	3025.0
Modulation Signal:	QPSK
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]
32.00	V	-	-	-98.81	26.13	34.32	-63.09	-40.00	-23.09
58.00	V	-	-	-98.14	14.20	23.06	-74.35	-40.00	-34.35
78.00	V	136	349	-97.28	14.60	24.32	-73.09	-40.00	-33.09
301.00	H	127	235	-92.58	21.23	35.65	-61.76	-40.00	-21.76
382.00	H	-	-	-93.87	22.86	35.99	-61.42	-40.00	-21.42
748.00	V	-	-	-92.02	29.42	44.40	-53.01	-40.00	-13.01

Table 7-58. Radiated Spurious Data (LTE Band 48 – Mid Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	3550.0
Modulation Signal:	QPSK
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	247	136	-77.31	10.67	40.36	-54.90	-40.00	-14.90
10680.00	H	398	183	-74.07	10.67	43.60	-51.66	-40.00	-11.66
14240.00	H	-	-	-79.76	10.67	37.91	-57.35	-40.00	-17.35
17800.00	H	-	-	-80.11	10.67	37.56	-57.70	-40.00	-17.70
21360.00	H	-	-	-65.27	2.91	44.63	-60.17	-40.00	-20.17

Table 7-59. Radiated Spurious Data (LTE Band 48 – Low Channel - Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 120 of 146

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	WCDMA
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	400	163	-75.55	10.67	42.12	-53.14	-40.00	-13.14
10875.00	H	-	-	-79.48	10.67	38.19	-57.07	-40.00	-17.07
14500.00	H	-	-	-80.30	10.67	37.37	-57.89	-40.00	-17.89
18125.00	H	150	158	-63.12	1.10	44.99	-59.81	-40.00	-19.81
21750.00	H	-	-	-65.60	2.78	44.18	-60.62	-40.00	-20.62
25375.00	H	-	-	-65.17	4.84	46.66	-58.14	-40.00	-18.14
29000.00	H	-	-	-65.87		#VALUE!	#VALUE!	-40.00	#VALUE!

Table 7-60. Radiated Spurious Data (LTE Band 48 – Mid Channel - Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	WCDMA
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	-	-	-77.99	10.67	39.68	-55.58	-40.00	-15.58
11070.00	H	-	-	-79.80	10.67	37.87	-57.39	-40.00	-17.39
14760.00	H	-	-	-80.06	10.67	37.61	-57.65	-40.00	-17.65

Table 7-61. Radiated Spurious Data (LTE Band 48 – High Channel - Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 121 of 146

NR Band n48 – Ant1

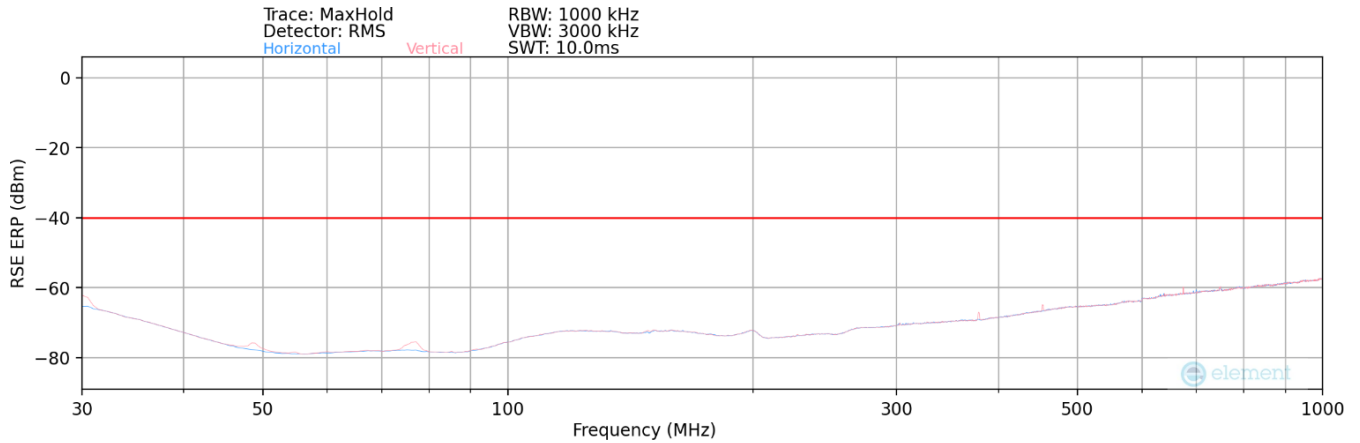


Table 7-62. Radiated Spurious Plot Below 1GHz (NR Band n48 – Ant1)

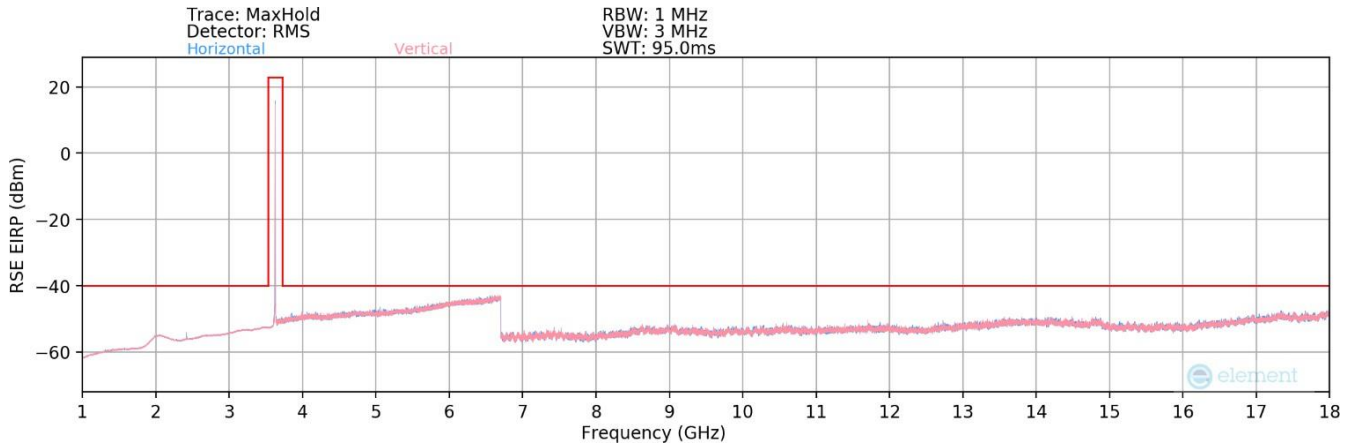


Table 7-63. Radiated Spurious Plot 1-18GHz (NR Band n48 – Ant1)

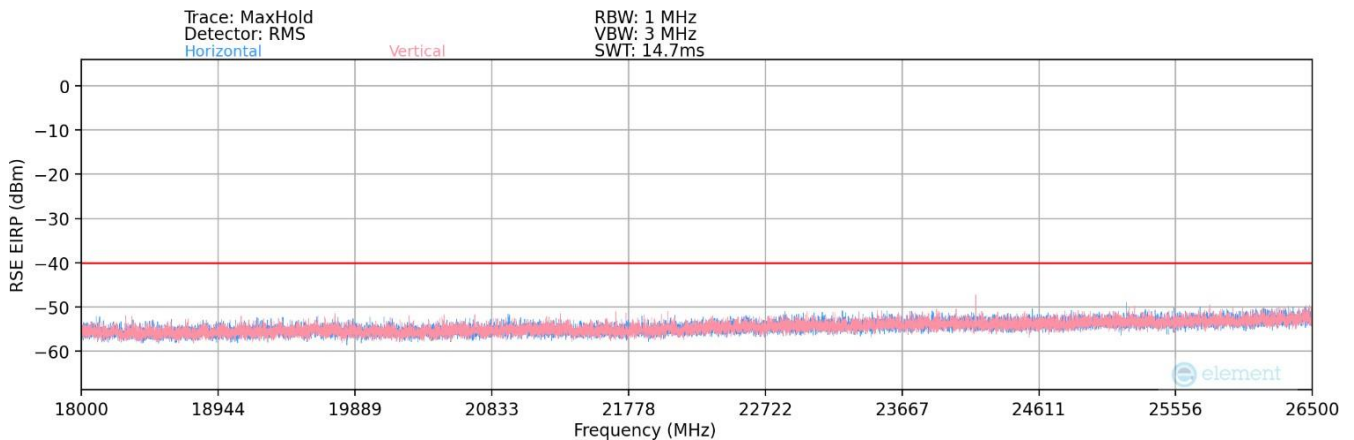


Table 7-64. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 122 of 146

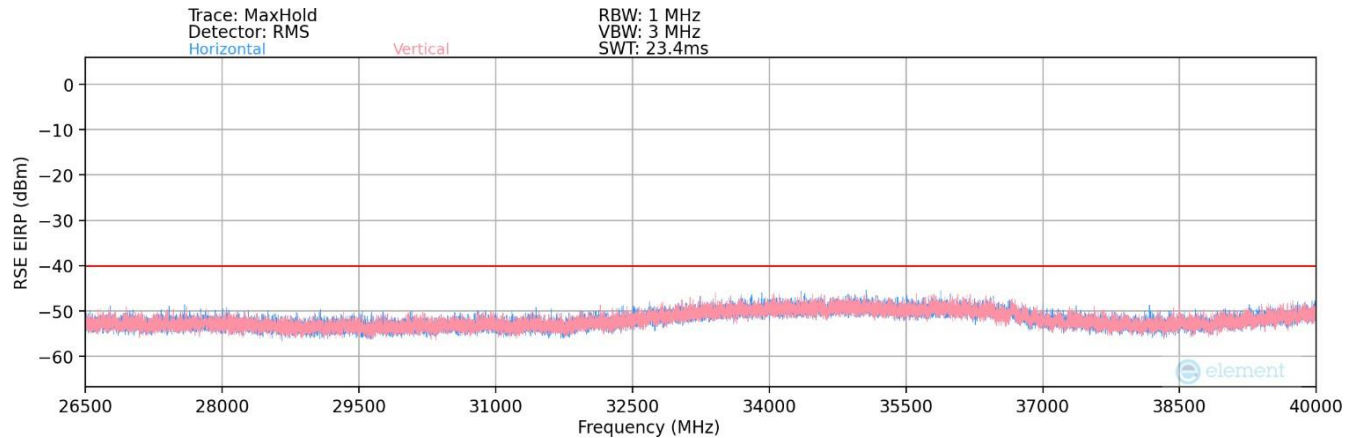


Table 7-65. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	3025.0
Modulation Signal:	QPSK
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]
31.00	V	-	-	-96.62	26.62	37.00	-60.41	-40.00	-20.41
49.00	V	-	-	-96.45	15.05	25.60	-71.81	-40.00	-31.81
388.00	V	-	-	-94.06	23.10	36.04	-61.36	-40.00	-21.36
450.00	V	-	-	-93.55	24.84	38.29	-59.12	-40.00	-19.12
674.00	V	-	-	-92.36	28.48	43.12	-54.28	-40.00	-14.28
751.00	V	-	-	-92.02	29.40	44.38	-53.03	-40.00	-13.03

Table 7-66. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
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	-	-	-77.63	9.93	39.30	-55.96	-40.00	-15.96
10710.00	V	395	278	-70.04	13.11	50.07	-45.19	-40.00	-5.19
14280.00	V	-	-	-80.30	15.55	42.25	-53.01	-40.00	-13.01
17850.00	V	-	-	-80.21	17.47	44.26	-51.00	-40.00	-11.00
21420.00	V	-	-	-65.61	2.91	44.31	-60.49	-40.00	-20.49

Table 7-67. Radiated Spurious Data (NR Band n48 – Low Channel - Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)		Page 123 of 146

Bandwidth (MHz):	40
Frequency (MHz):	3025.0
Modulation Signal:	QPSK
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	395	214	-74.37	9.31	41.94	-53.32	-40.00	-13.32
10875.00	V	290	172	-74.36	12.69	45.33	-49.93	-40.00	-9.93
14500.00	V	-	-	-80.17	15.58	42.41	-52.85	-40.00	-12.85
18125.00	V	150	341	-62.80	1.10	45.31	-59.49	-40.00	-19.49
21750.00	V	-	-	-65.31	2.78	44.47	-60.33	-40.00	-20.33
25375.00	V	-	-	-65.10	4.84	46.73	-58.07	-40.00	-18.07
29000.00	V	-	-	-65.73	5.18	46.45	-58.35	-40.00	-18.35

Table 7-68. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	3000.0
Modulation Signal:	QPSK
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	-	-	-77.19	9.83	39.64	-55.62	-40.00	-15.62
11040.00	V	276	165	-76.52	12.52	43.00	-52.26	-40.00	-12.26
14720.00	V	-	-	-80.39	15.11	41.72	-53.54	-40.00	-13.54
18400.00	V	150	213	-59.98	0.98	48.00	-56.80	-40.00	-16.80
22080.00	V	-	-	-64.93	3.24	45.31	-59.49	-40.00	-19.49
25760.00	V	-	-	-64.72	4.69	46.97	-57.83	-40.00	-17.83
29440.00	V	-	-	-65.00	5.16	47.16	-57.64	-40.00	-17.64

Table 7-69. Radiated Spurious Data (NR Band n48 – High Channel - Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 124 of 146

NR Band n48 – SRS Ant3

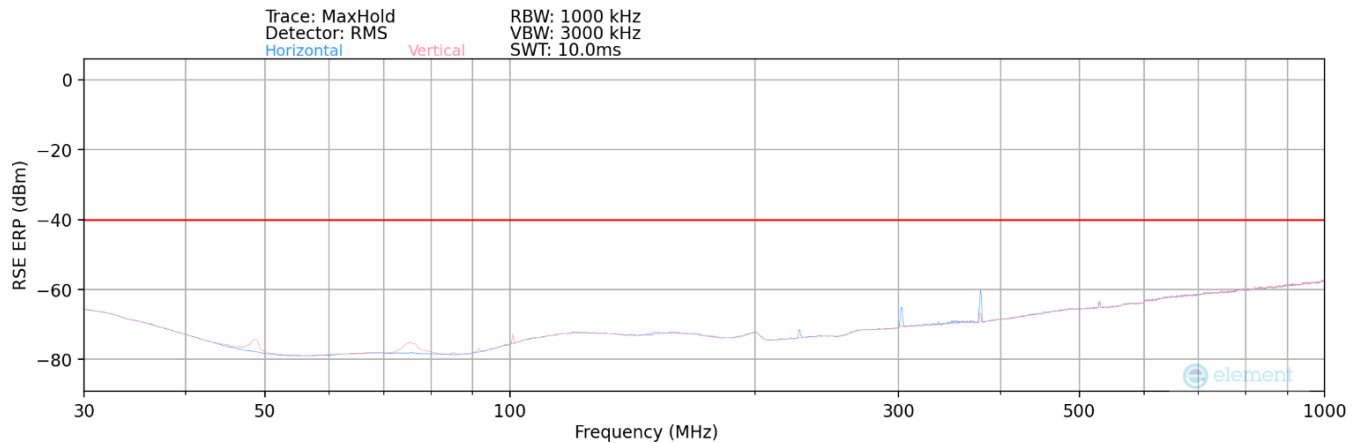


Table 7-70. Radiated Spurious Plot Below 1GHz (NR Band n48 – SRS Ant3)

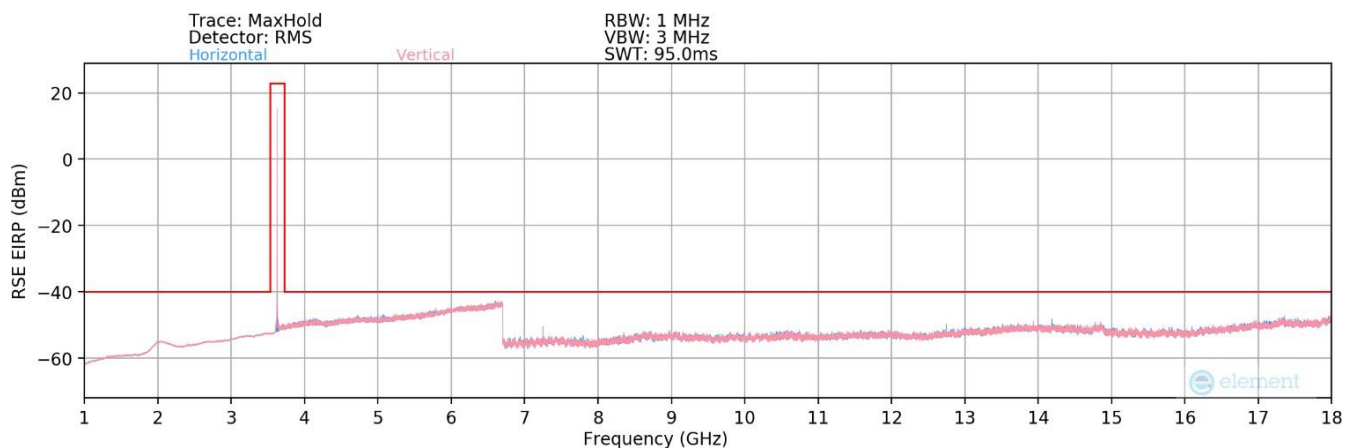


Table 7-71. Radiated Spurious Plot 1-18GHz (NR Band n48 – SRS Ant3)

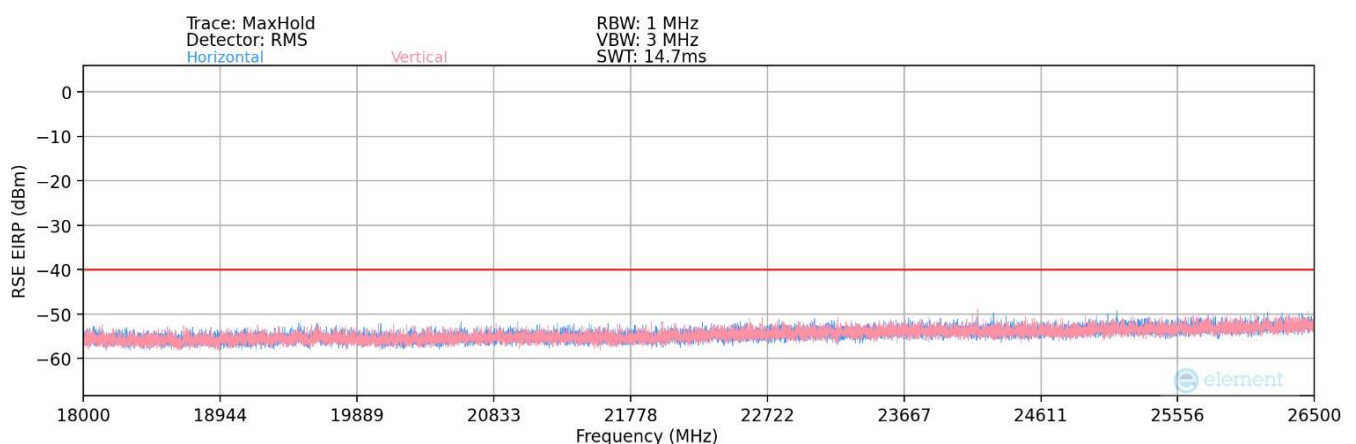


Table 7-72. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – SRS Ant3)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504010035-01-R3.C3K	Test Dates: 05/05/2025 – 06/17/2025	EUT Type: Modular Approval - Host Integration (Portable Computing Device)	Page 125 of 146

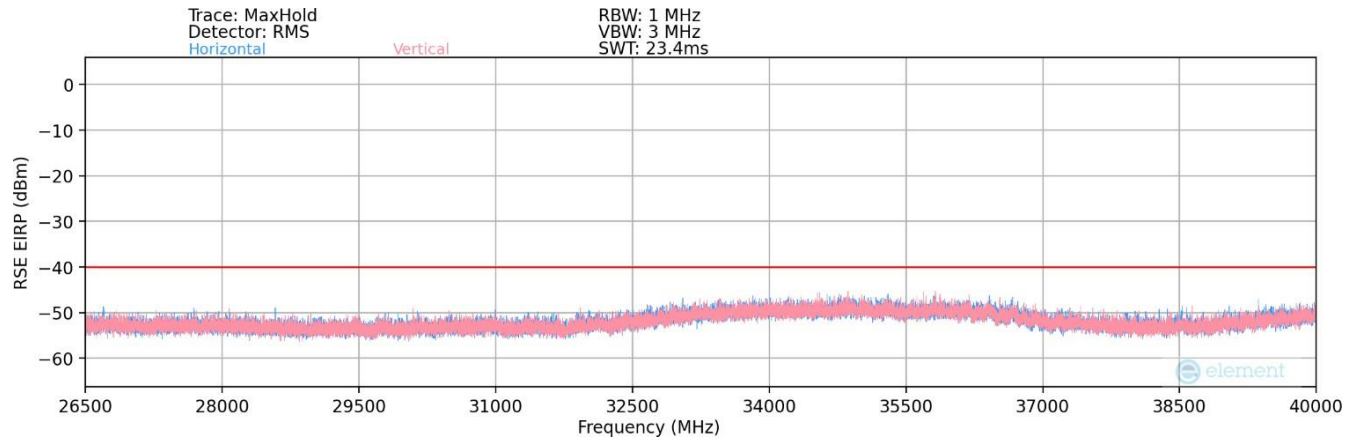


Table 7-73. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – SRS Ant3)

Bandwidth (MHz):	40
Frequency (MHz):	3025.0
Modulation Signal:	QPSK
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]
48.67	V	-	-	-91.95	15.17	30.22	-67.18	-40.00	-27.18
76.32	V	-	-	-91.90	14.69	29.79	-67.62	-40.00	-27.62
302.00	V	194	247	-91.11	21.23	37.12	-60.29	-40.00	-20.29
377.41	V	250	225	-90.12	22.74	39.62	-57.79	-40.00	-17.79
528.21	V	-	-	-91.36	26.21	41.85	-55.55	-40.00	-15.55
600.52	V	-	-	-91.03	27.03	43.00	-54.41	-40.00	-14.41
693.62	V	-	-	-91.13	28.74	44.61	-52.80	-40.00	-12.80

Table 7-74. Radiated Spurious Data (NR Band n48 – Mid Channel – SRS Ant3)

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
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	297	249	-74.11	9.93	42.82	-52.44	-40.00	-12.44
10710.00	V	255	48	-71.90	13.11	48.21	-47.05	-40.00	-7.05
14280.00	V	-	-	-81.44	15.55	41.11	-54.15	-40.00	-14.15
17850.00	V	-	-	-81.50	17.47	42.97	-52.29	-40.00	-12.29
21420.00	V	-	-	-65.70	2.91	44.21	-60.59	-40.00	-20.59

Table 7-75. Radiated Spurious Data (NR Band n48 – Low Channel – SRS Ant3)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
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	390	239	-68.70	9.31	47.61	-47.65	-40.00	-7.65
10875.00	V	269	69	-76.96	12.69	42.73	-52.53	-40.00	-12.53
14500.00	V	-	-	-81.15	15.58	41.43	-53.83	-40.00	-13.83
18125.00	V	-	-	-63.84	1.10	44.26	-60.54	-40.00	-20.54
21750.00	V	-	-	-65.33	2.78	44.45	-60.35	-40.00	-20.35

Table 7-76. Radiated Spurious Data (NR Band n48 – Mid Channel – SRS Ant3)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
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	-	-	-78.97	9.83	37.86	-57.40	-40.00	-17.40
11040.00	V	240	274	-76.09	12.52	43.43	-51.83	-40.00	-11.83
14720.00	V	-	-	-81.75	15.11	40.36	-54.90	-40.00	-14.90
18400.00	V	150	10	-61.94	0.98	46.05	-58.75	-40.00	-18.75
22080.00	V	-	-	-65.24	3.24	45.00	-59.80	-40.00	-19.80
25760.00	V	-	-	-64.77	4.69	46.92	-57.88	-40.00	-17.88
29440.00	V	-	-	-65.48	5.16	46.68	-58.12	-40.00	-18.12

Table 7-77. Radiated Spurious Data (NR Band n48 – High Channel – SRS Ant3)

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

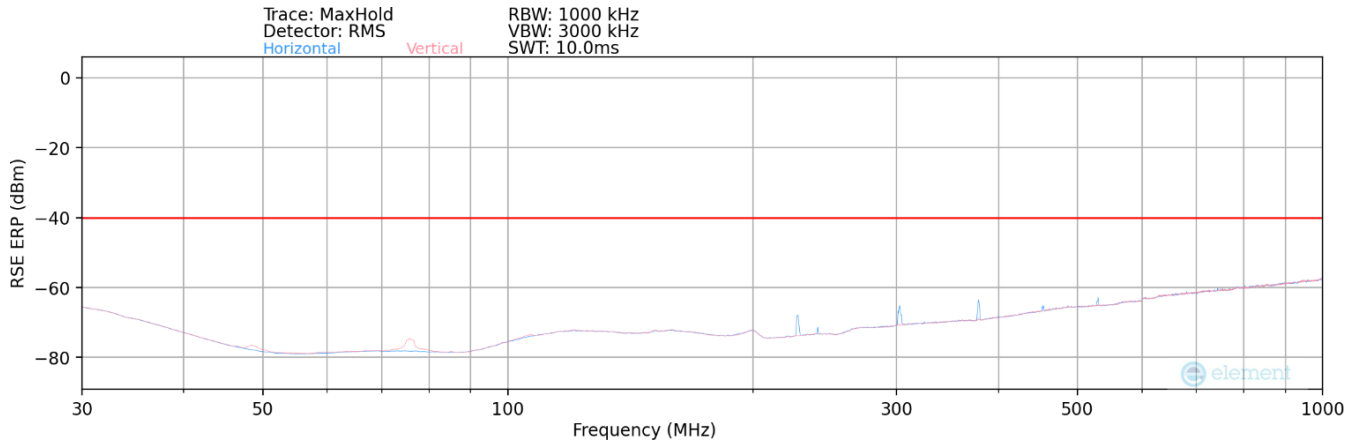


Table 7-78. Radiated Spurious Plot Below 1GHz (NR Band n48 – SRS Ant4)

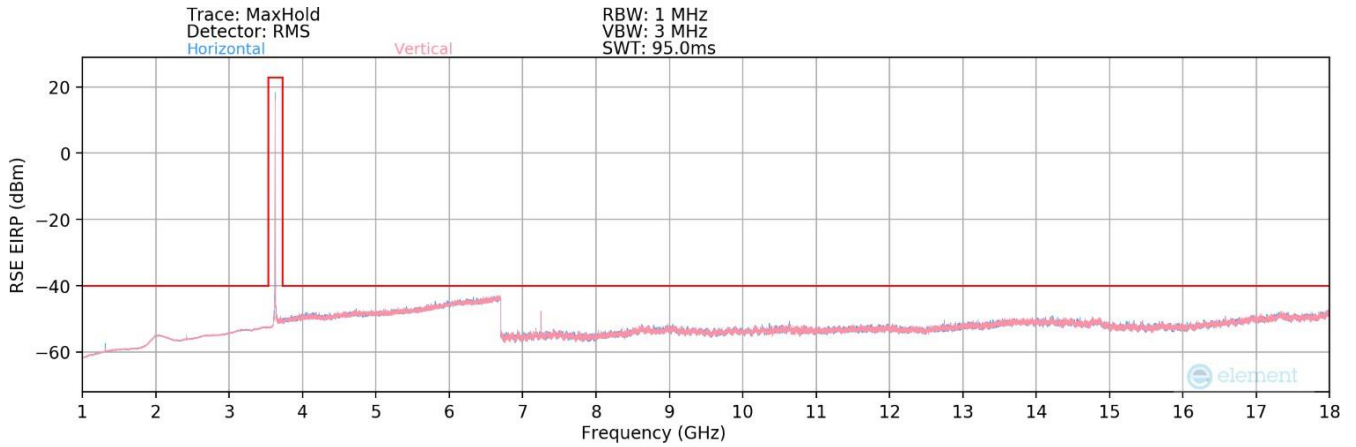


Table 7-79. Radiated Spurious Plot 1-18GHz (NR Band n48 – SRS Ant4)

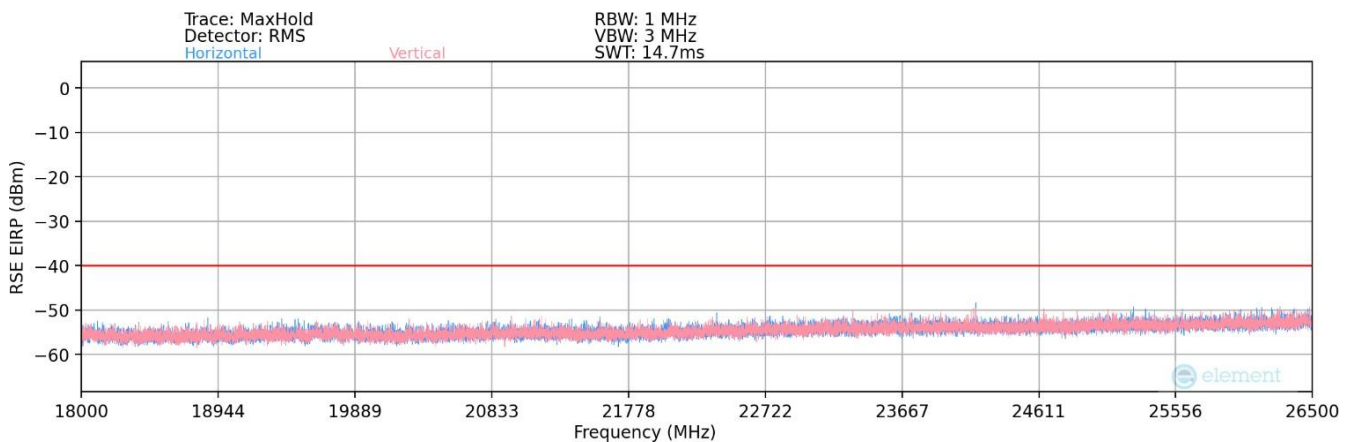


Table 7-80. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – SRS Ant4)

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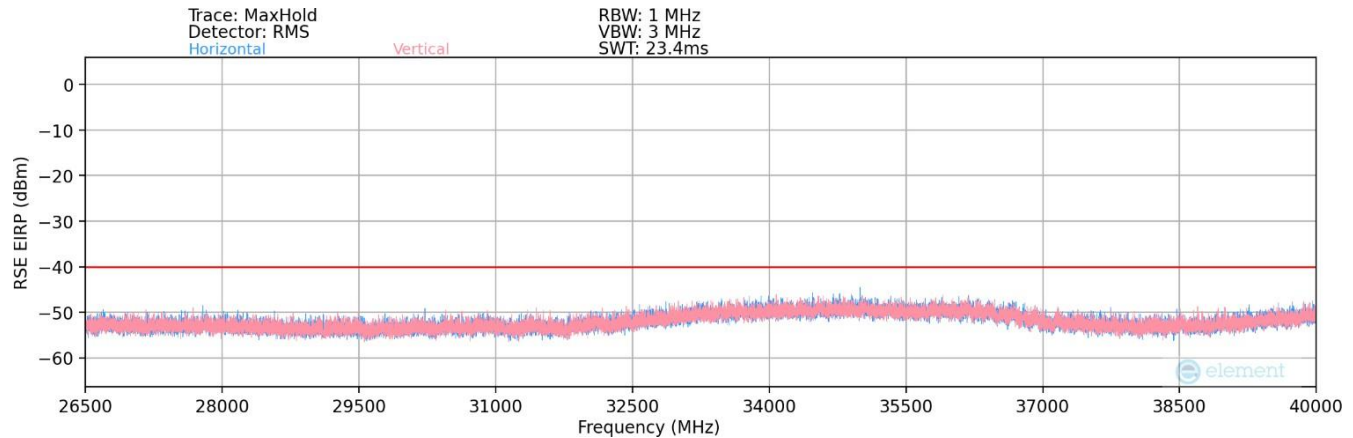


Table 7-81. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – SRS Ant4)

Bandwidth (MHz):	40
Frequency (MHz):	35700.0
Modulation Signal:	QPSK
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]
75.01	V	-	-	-91.77	14.09	29.32	-68.09	-40.00	-28.09
226.95	H	155	95	-90.92	19.22	35.30	-62.10	-40.00	-22.10
303.56	H	148	112	-91.06	21.32	37.26	-60.15	-40.00	-20.15
381.24	H	-	-	-91.38	24.16	39.78	-57.63	-40.00	-17.63
456.41	H	-	-	-90.94	25.82	41.88	-55.53	-40.00	-15.53
495.55	H	-	-	-90.81	26.88	43.07	-54.34	-40.00	-14.34

Table 7-82. Radiated Spurious Data (NR Band n48 – Mid Channel – SRS Ant4)

Bandwidth (MHz):	40
Frequency (MHz):	35700.0
Modulation Signal:	QPSK
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	-	-	-80.05	9.93	36.88	-58.38	-40.00	-18.38
10710.00	H	152	231	-75.40	13.11	44.71	-50.55	-40.00	-10.55
14280.00	H	-	-	-81.51	15.55	41.04	-54.22	-40.00	-14.22
17850.00	H	150	210	-78.65	17.47	45.82	-49.44	-40.00	-9.44
21420.00	H	-	-	-65.76	2.91	44.15	-60.65	-40.00	-20.65
24990.00	H	-	-	-65.11	4.54	46.43	-58.37	-40.00	-18.37
28560.00	H	150	183	-63.03	5.15	49.12	-55.68	-40.00	-15.68
32130.00	H	-	-	-65.92	6.69	47.77	-57.03	-40.00	-17.03

Table 7-83. Radiated Spurious Data (NR Band n48 – Low Channel – SRS Ant4)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
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	161	216	-67.56	9.31	48.75	-46.51	-40.00	-6.51
10875.00	H	148	243	-77.09	12.69	42.60	-52.66	-40.00	-12.66
14500.00	H	-	-	-81.12	15.58	41.46	-53.80	-40.00	-13.80
18125.00	H	-	-	-63.93	1.10	44.17	-60.63	-40.00	-20.63
21750.00	H	-	-	-65.58	2.78	44.20	-60.60	-40.00	-20.60

Table 7-84. Radiated Spurious Data (NR Band n48 – Mid Channel – SRS Ant4)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
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	151	211	-70.59	9.83	46.24	-49.02	-40.00	-9.02
11040.00	H	153	242	-78.55	12.52	40.97	-54.29	-40.00	-14.29
14720.00	H	-	-	-81.42	15.11	40.69	-54.57	-40.00	-14.57
18400.00	H	-	-	-64.40	0.98	43.58	-61.22	-40.00	-21.22
22080.00	H	150	203	-63.34	3.24	46.90	-57.90	-40.00	-17.90
25760.00	H	-	-	-64.56	4.69	47.13	-57.67	-40.00	-17.67
29440.00	H	-	-	-65.38	5.16	46.79	-58.01	-40.00	-18.01
33120.00	H	-	-	-65.77	7.97	49.20	-55.60	-40.00	-15.60

Table 7-85. Radiated Spurious Data (NR Band n48 – High Channel – SRS Ant4)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – UL MIMO Ant6 + Ant1

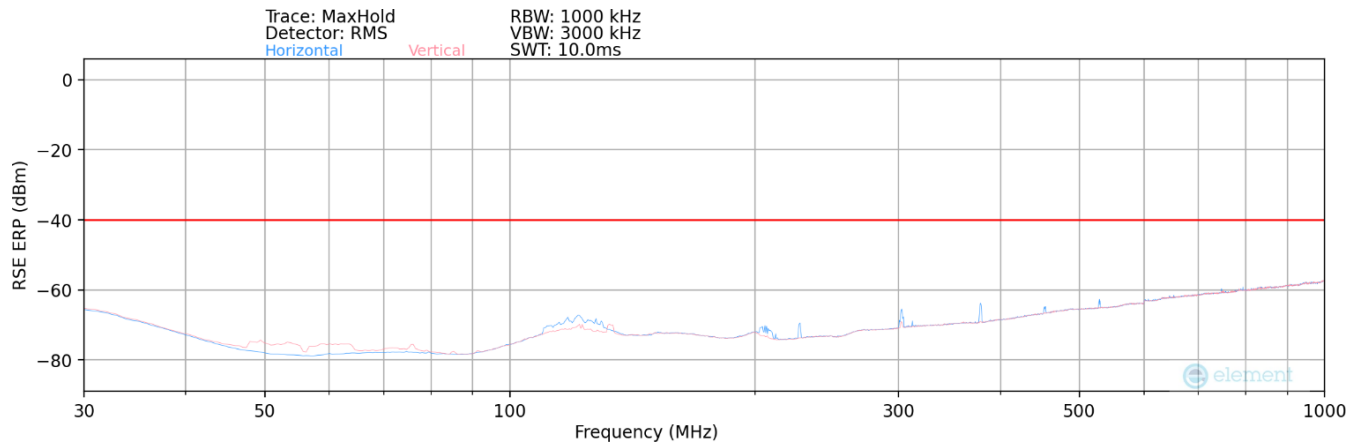


Table 7-86. Radiated Spurious Plot Below 1GHz (NR Band n48 – UL MIMO Ant6 + Ant1)

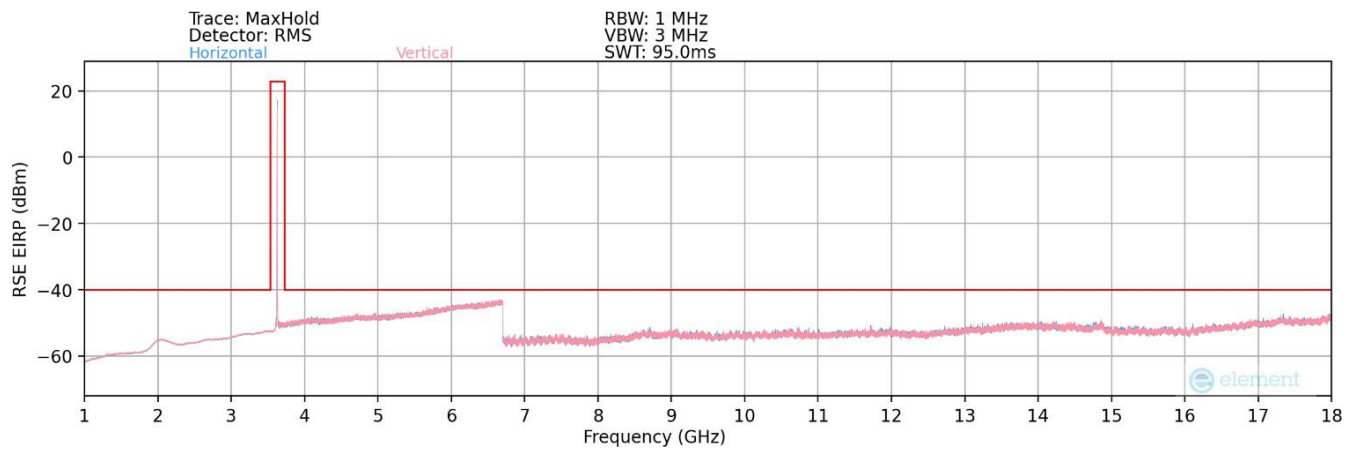


Table 7-87. Radiated Spurious Plot 1-18GHz (NR Band n48 – UL MIMO Ant6 + Ant1)

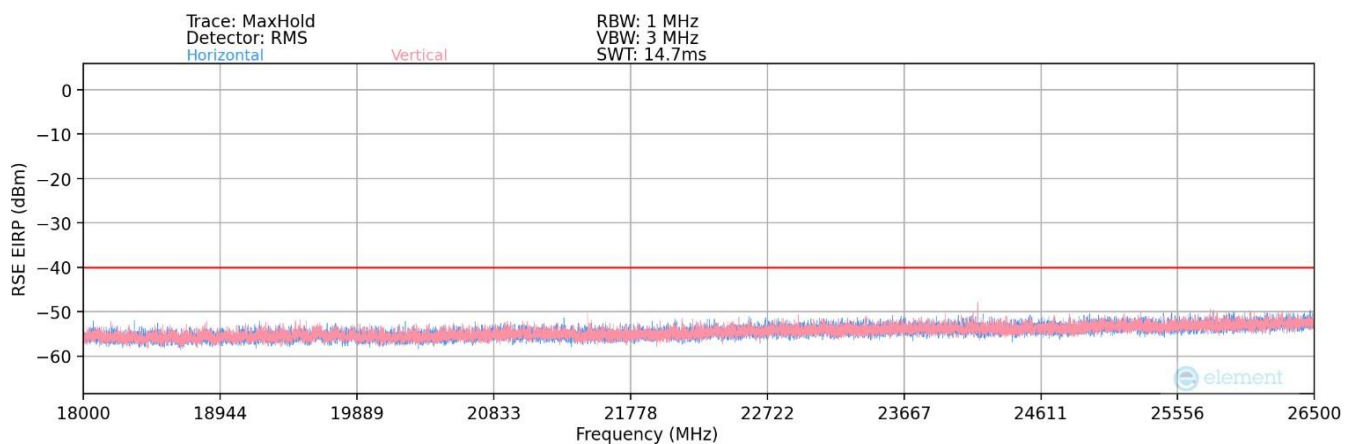


Table 7-88. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – UL MIMO Ant6 + Ant1)

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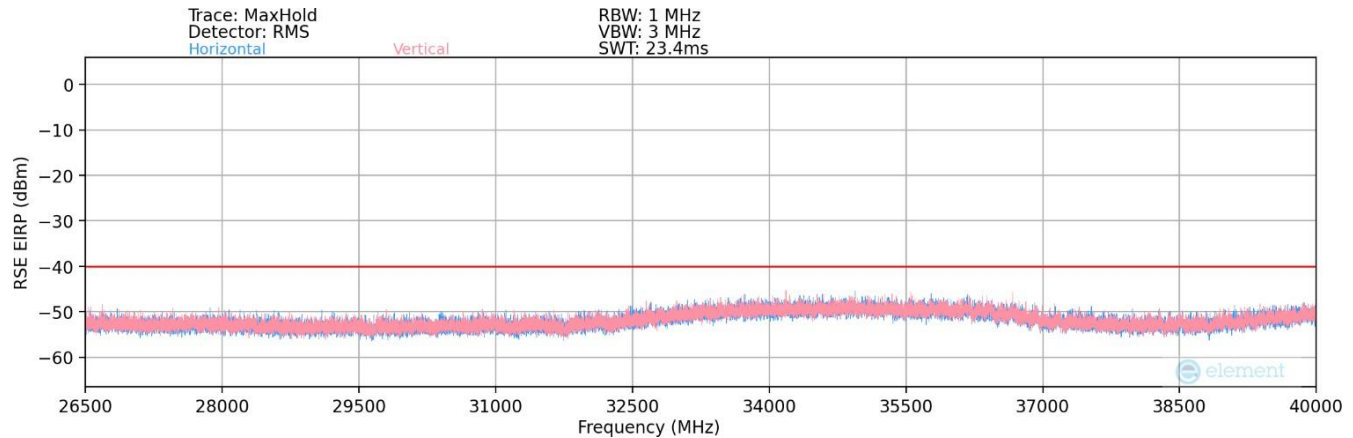


Table 7-89. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – UL MIMO Ant6 + Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	3025.0
Modulation Signal:	WFSK
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]
58.17	V	159	196	-91.66	14.20	29.54	-67.87	-40.00	-27.87
126.55	V	398	69	-90.60	20.52	36.92	-60.49	-40.00	-20.49
302.68	V	137	137	-90.98	21.23	37.25	-60.16	-40.00	-20.16
367.74	V	-	-	-91.18	22.62	38.44	-58.97	-40.00	-18.97
453.20	V	-	-	-91.05	24.95	40.90	-56.51	-40.00	-16.51
511.34	V	-	-	-90.93	26.10	42.17	-55.24	-40.00	-15.24

Table 7-90. Radiated Spurious Data (NR Band n48 – Mid Channel – UL MIMO Ant6 + Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	WFSK
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	-	-	-77.28	9.93	39.65	-55.61	-40.00	-15.61
10710.00	H	284	343	-70.02	13.11	50.09	-45.17	-40.00	-5.17
14280.00	H	-	-	-82.04	15.55	40.51	-54.75	-40.00	-14.75
17850.00	H	-	-	-82.30	17.47	42.17	-53.09	-40.00	-13.09
21420.00	H	-	-	-65.61	2.91	44.30	-60.50	-40.00	-20.50

Table 7-91. Radiated Spurious Data (NR Band n48 – Low Channel – UL MIMO Ant6 + Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
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	358	8	-74.43	9.31	41.88	-53.38	-40.00	-13.38
10875.00	H	211	329	-70.01	12.69	49.68	-45.58	-40.00	-5.58
14500.00	H	248	63	-80.49	15.58	42.09	-53.17	-40.00	-13.17
18125.00	H	-	-	-61.17	1.10	46.94	-57.86	-40.00	-17.86
21750.00	H	-	-	-65.51	2.78	44.28	-60.52	-40.00	-20.52
25375.00	H	-	-	-65.11	4.84	46.72	-58.08	-40.00	-18.08

Table 7-92. Radiated Spurious Data (NR Band n48 – Mid Channel – UL MIMO Ant6 + Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
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	-	-	-79.28	9.83	37.55	-57.71	-40.00	-17.71
11040.00	H	209	289	-69.39	12.52	50.13	-45.13	-40.00	-5.13
14720.00	H	-	-	-82.17	15.11	39.94	-55.32	-40.00	-15.32
18400.00	H	150	175	-63.86	0.98	44.12	-60.68	-40.00	-20.68
22080.00	H	-	-	-64.87	3.24	45.36	-59.44	-40.00	-19.44
25760.00	H	-	-	-64.84	4.69	46.85	-57.95	-40.00	-17.95
29440.00	H	-	-	-65.56	5.16	46.60	-58.20	-40.00	-18.20

Table 7-93. Radiated Spurious Data (NR Band n48 – High Channel – UL MIMO Ant6 + Ant1)

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 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

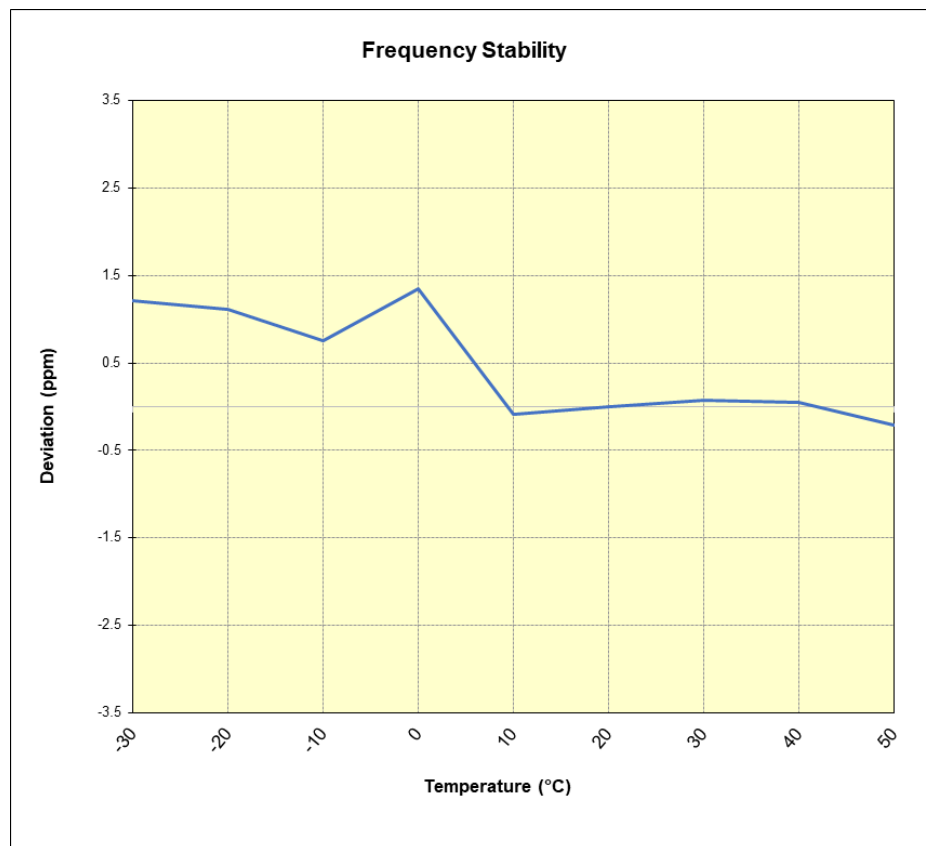
None

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Frequency Stability / Temperature Variation

LTE Band 48					
		Operating Frequency (Hz):		3,625,000,000	
		Ref. Voltage (VDC):		10.2	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	10.2	- 30	3,625,227,822	4,398	0.0001213
		- 20	3,625,227,434	4,010	0.0001106
		- 10	3,625,226,135	2,711	0.0000748
		0	3,625,228,314	4,890	0.0001349
		+ 10	3,625,223,097	-327	-0.0000090
		+ 20 (Ref)	3,625,223,424	0	0.0000000
		+ 30	3,625,223,700	276	0.0000076
		+ 40	3,625,223,592	168	0.0000046
		+ 50	3,625,222,660	-764	-0.0000211
Battery Endpoint	4.10	+ 20	3,625,222,128	-1,296	-0.0000357

Table 7-94. LTE Band 48 Frequency Stability Data



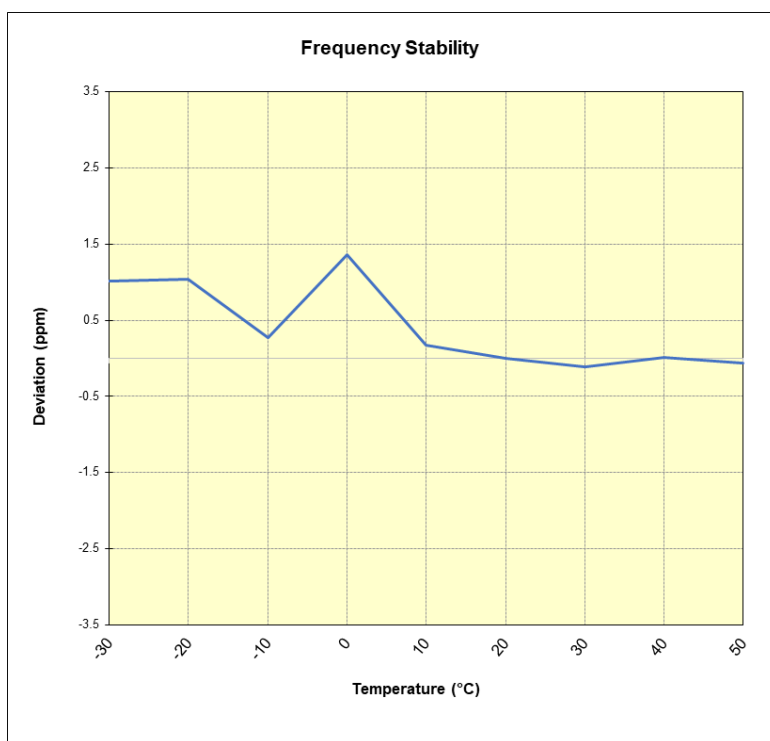
Plot 7-131. LTE Band 48 Frequency Stability Chart

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Frequency Stability / Temperature Variation

NR Band n48					
Operating Frequency (Hz):		3,625,000,000			
Ref. Voltage (VDC):		10.2			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	10.2	- 30	3,625,206,557	3,675	0.0001014
		- 20	3,625,206,640	3,758	0.0001037
		- 10	3,625,203,873	991	0.0000273
		0	3,625,207,811	4,929	0.0001360
		+ 10	3,625,203,503	621	0.0000171
		+ 20 (Ref)	3,625,202,882	0	0.0000000
		+ 30	3,625,202,484	-398	-0.0000110
		+ 40	3,625,202,946	64	0.0000018
		+ 50	3,625,202,637	-245	-0.0000068
Battery Endpoint	4.10	+ 20	3,625,206,776	3,894	0.0001074

Table 7-95. NR Band n48 Frequency Stability Data



Plot 7-132. NR Band n48 Frequency Stability Chart

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7.8 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.

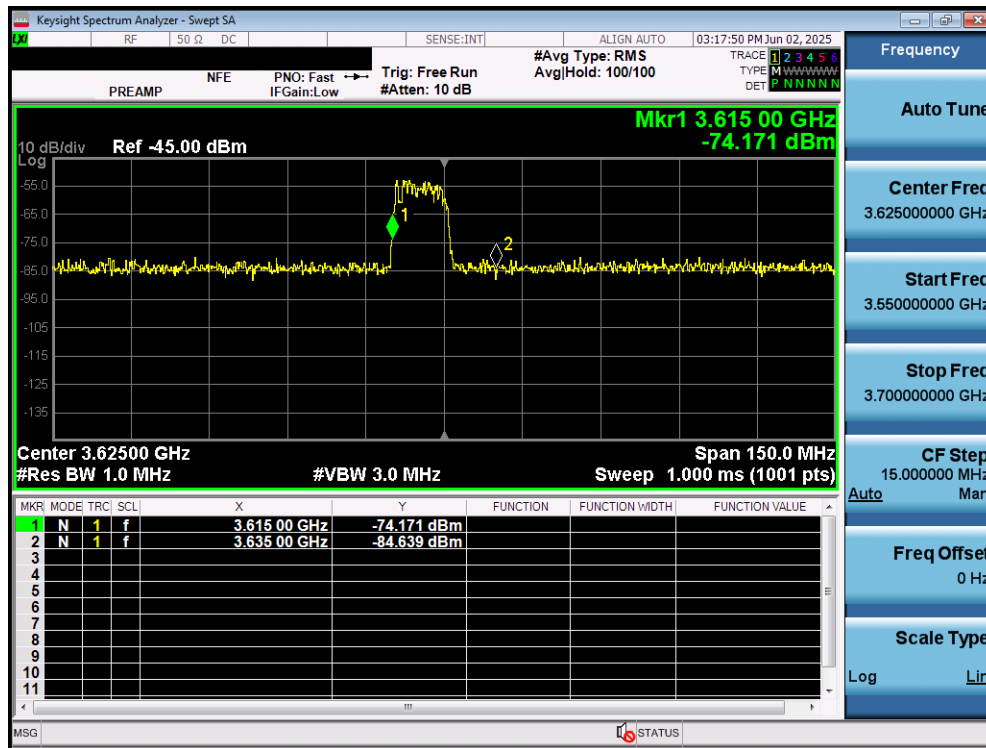
1. Run#1:
 - a. Setup WINNF.PT.C.HBT.1 with 3615MHz – 3635MHz.
 - b. Enable AP service from Ruckus Cloud management.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Ruckus Cloud management and check EUT stop transmission within 10s.
2. Run#2:
 - a. Setup WINNF.PT.C.HBT.1 with 3660MHz – 3680MHz.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

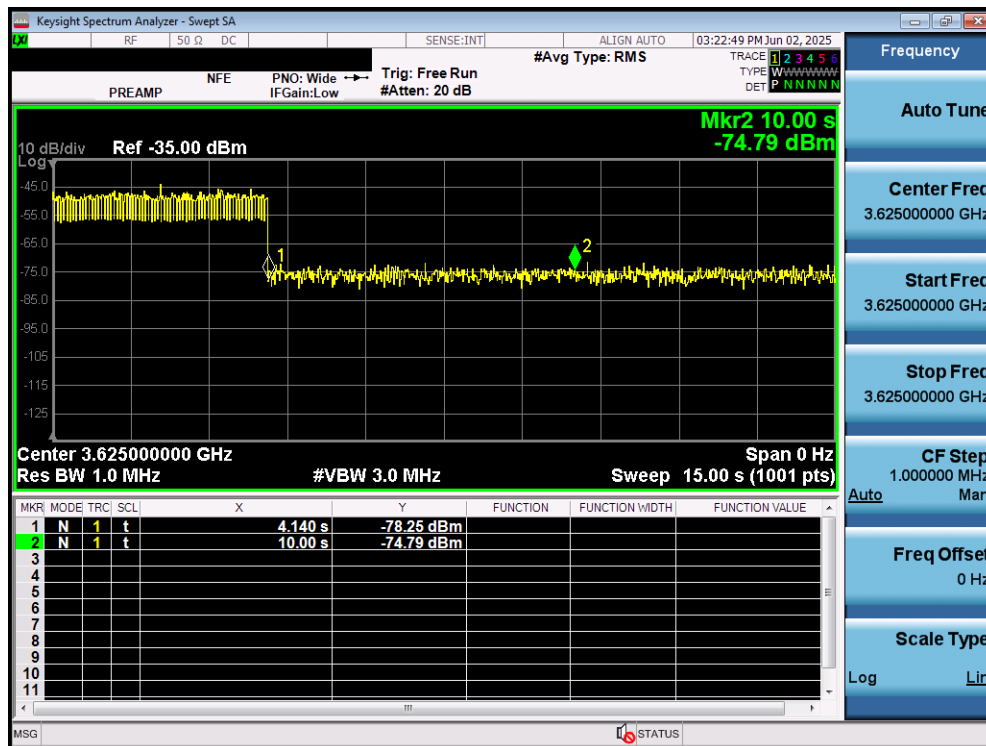
The EUT is an End User Device.

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Run#1: LTE Band 48



Plot 7-133. Run#1 End User Device Frequency of Operations



Plot 7-134. Run#1 End User Device Discontinues Operations within 10s

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Note:

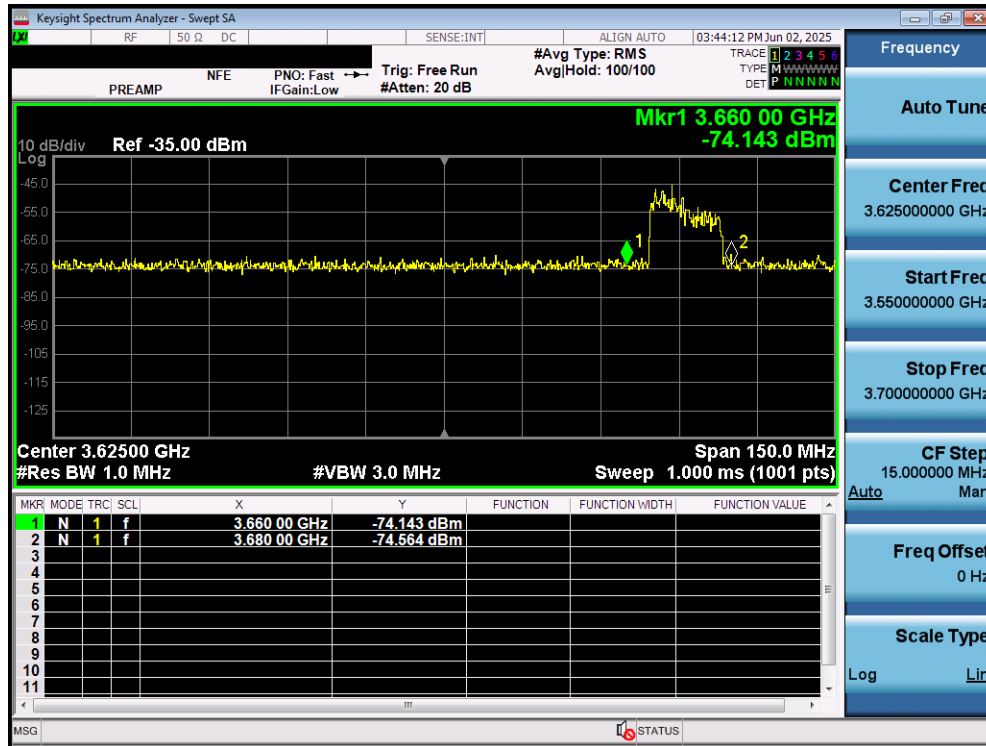
Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation.

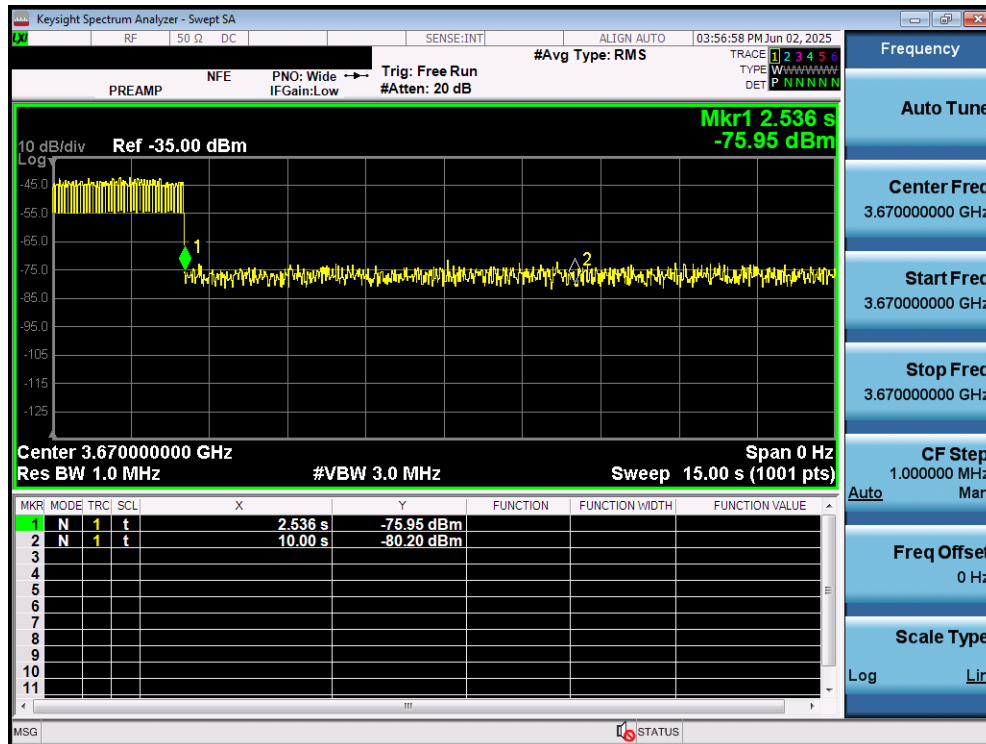
Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

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Run#2:



Plot 7-135. Run#2 End User Device Frequency of Operations



Plot 7-136. Run#2 End User Device Discontinues Operations within 10s

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Note:

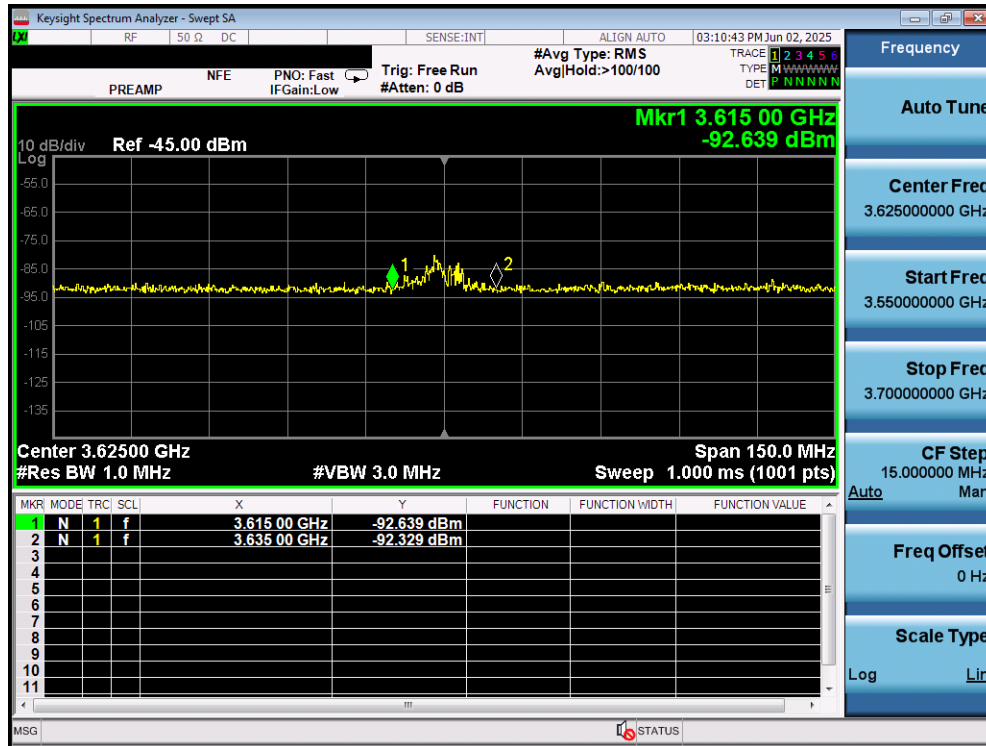
Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation.

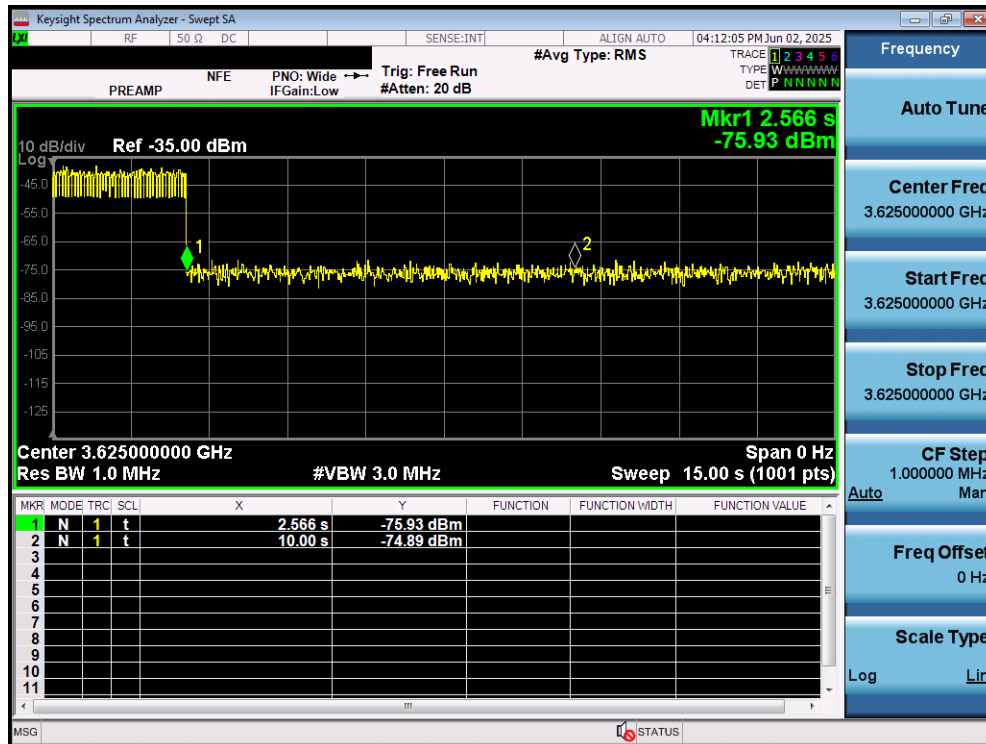
Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Run#1: NR Band n48



Plot 7-137. Run#1 End User Device Frequency of Operations



Plot 7-138. Run#1 End User Device Discontinues Operations within 10s

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Note:

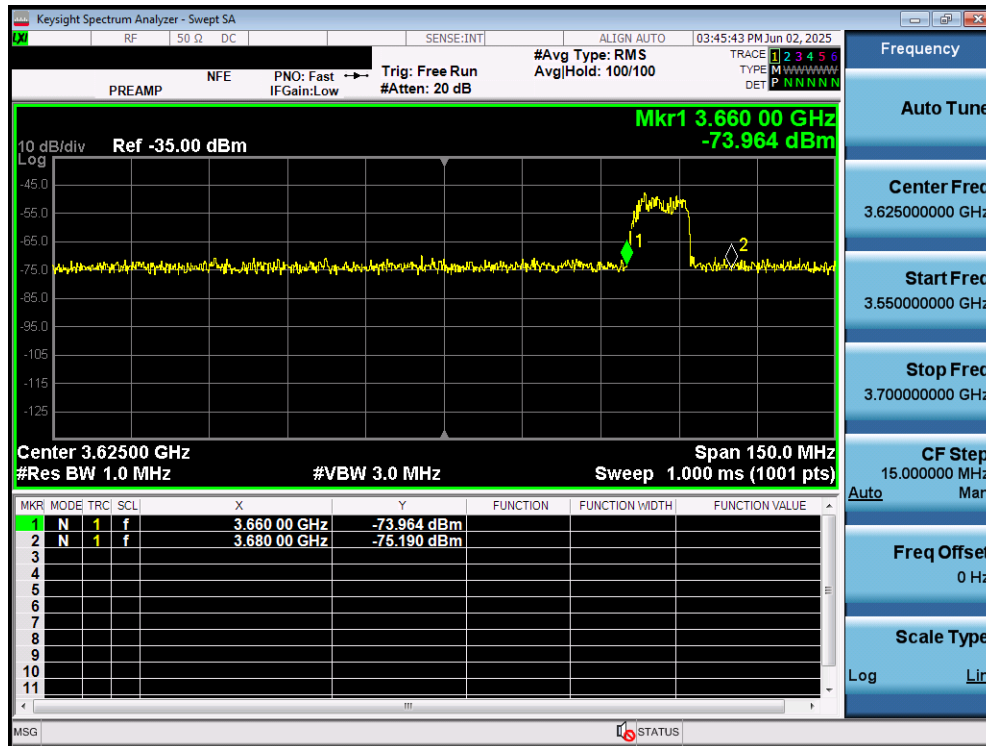
Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation.

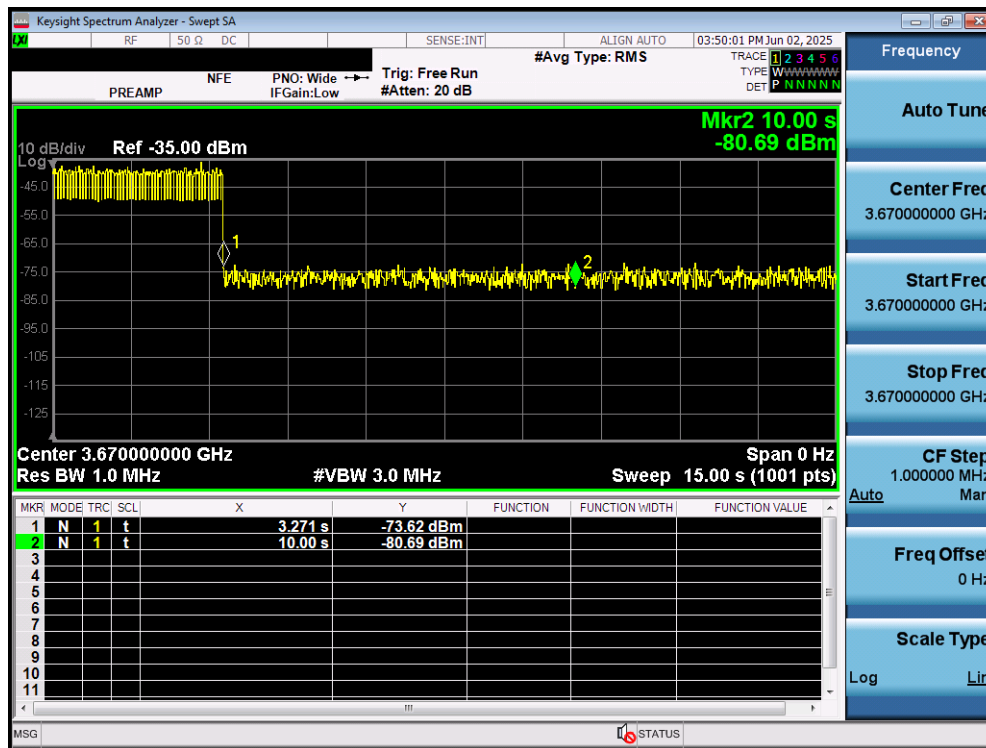
Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

FCC ID: C3K2119	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Run#2:



Plot 7-139. Run#2 End User Device Frequency of Operations



Plot 7-140. Run#2 End User Device Discontinues Operations within 10s

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Note:

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

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

The data collected relate only to the item(s) tested and show that the **Microsoft Corporation (WiFi module FCC ID: C3K00002102A and cellular module FCC ID: C3K2119) integrated into the host laptop (Model: 2119)** complies with all of the End User Device requirements of Part 96 of the FCC Rules for LTE and NR operation only.

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