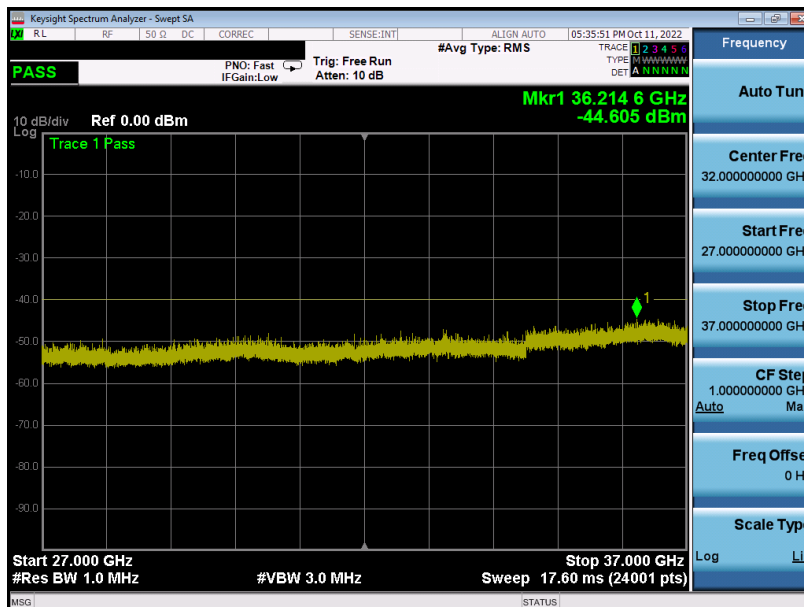
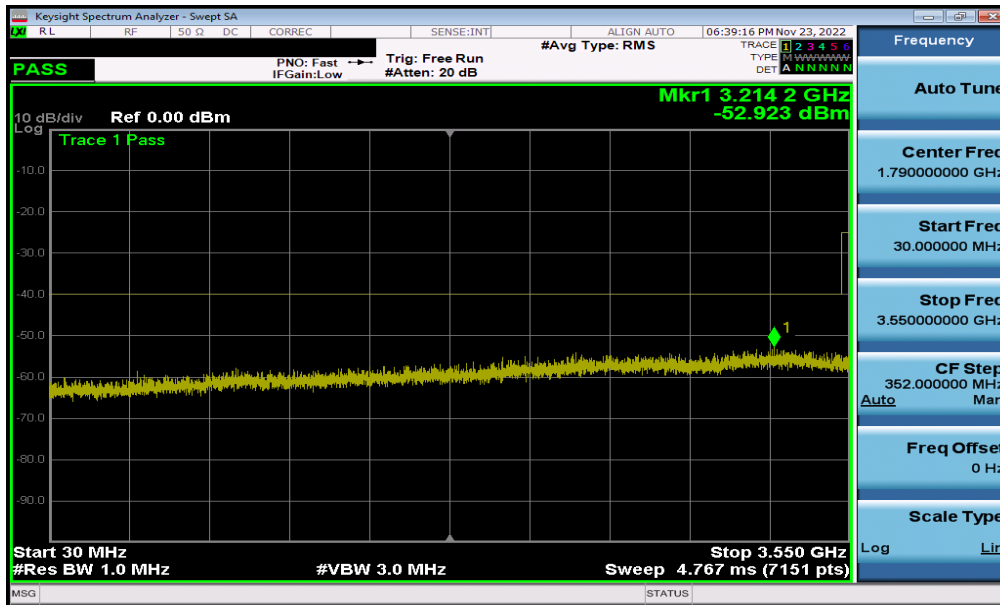


Plot 7-73. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant C)

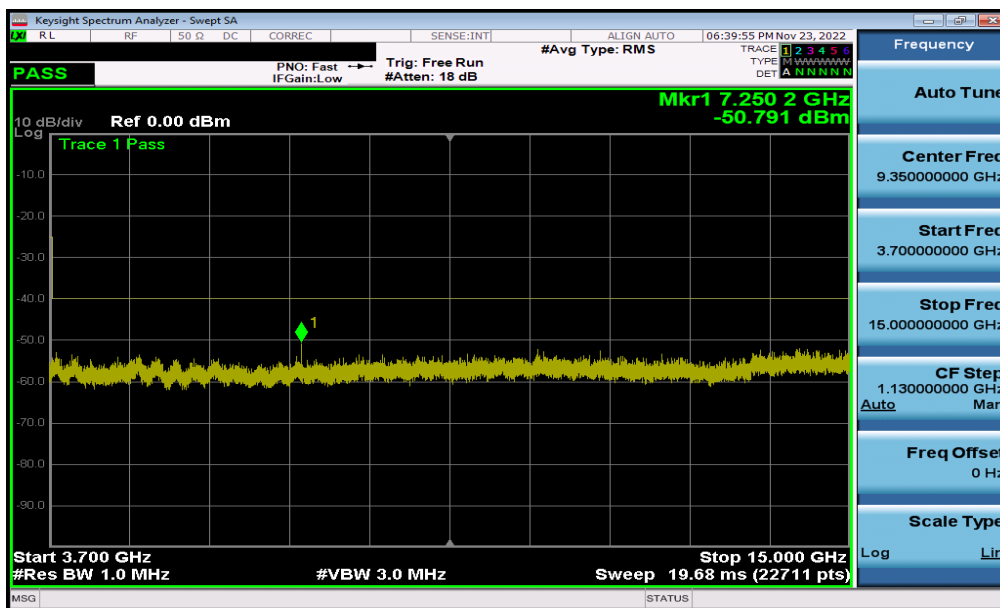


Plot 7-74. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant C)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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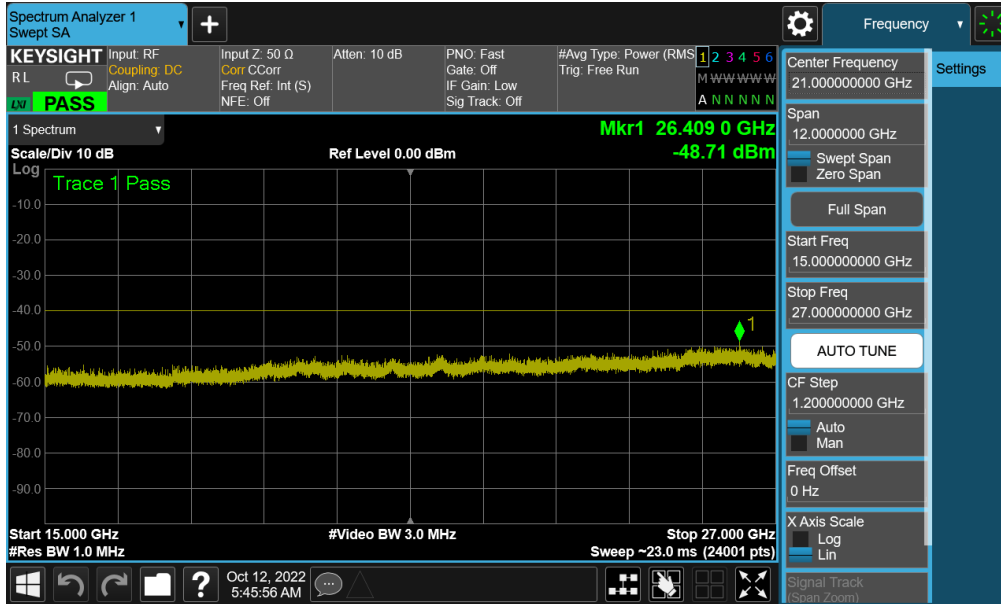


Plot 7-75. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant C)

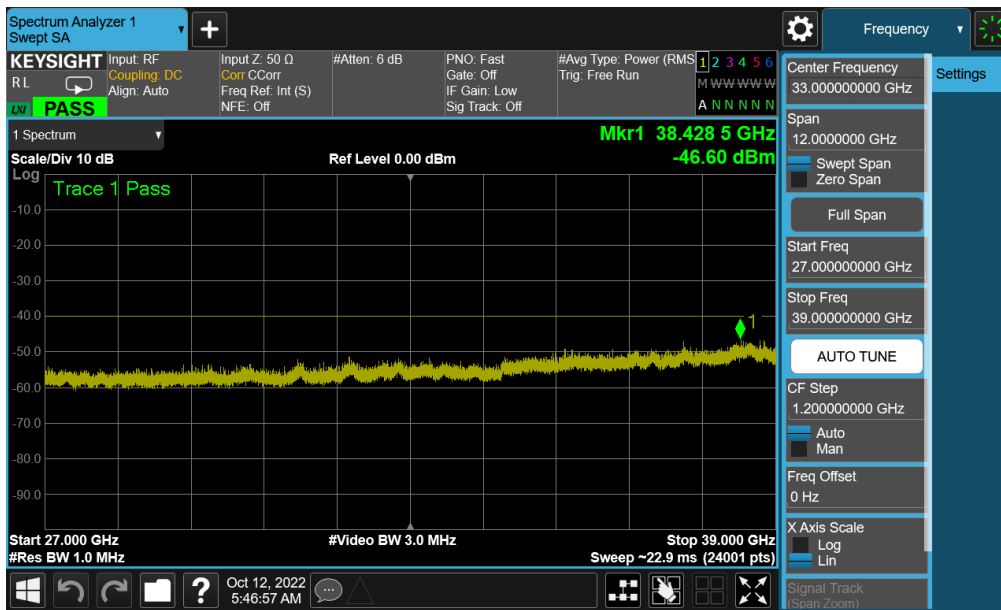


Plot 7-76. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant C)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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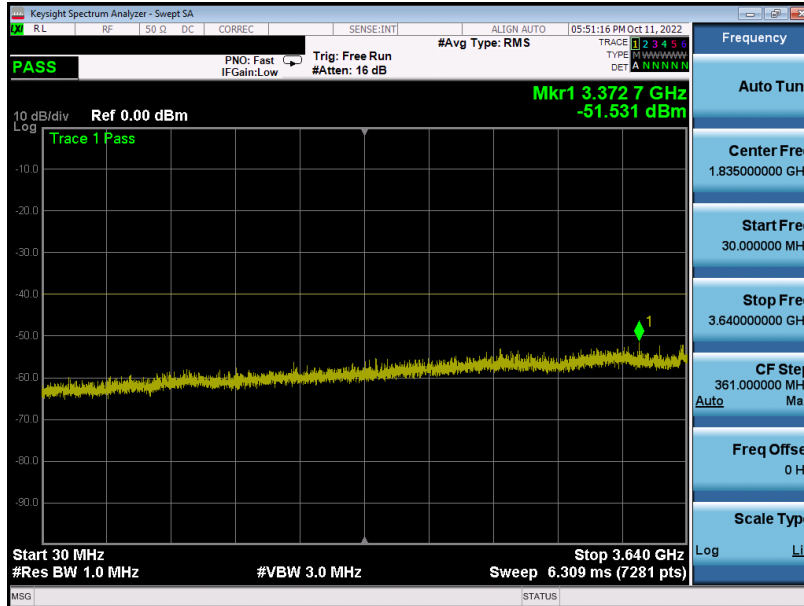


Plot 7-77. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant C)

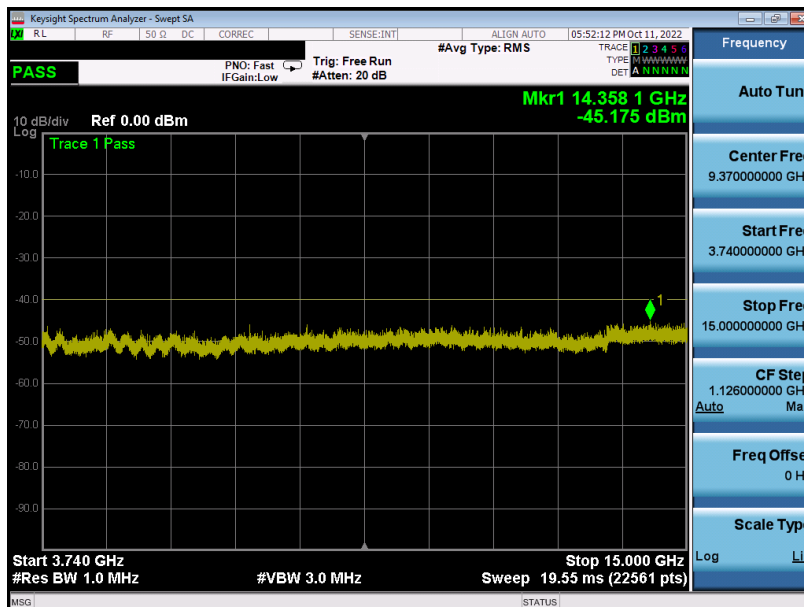


Plot 7-78. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant C)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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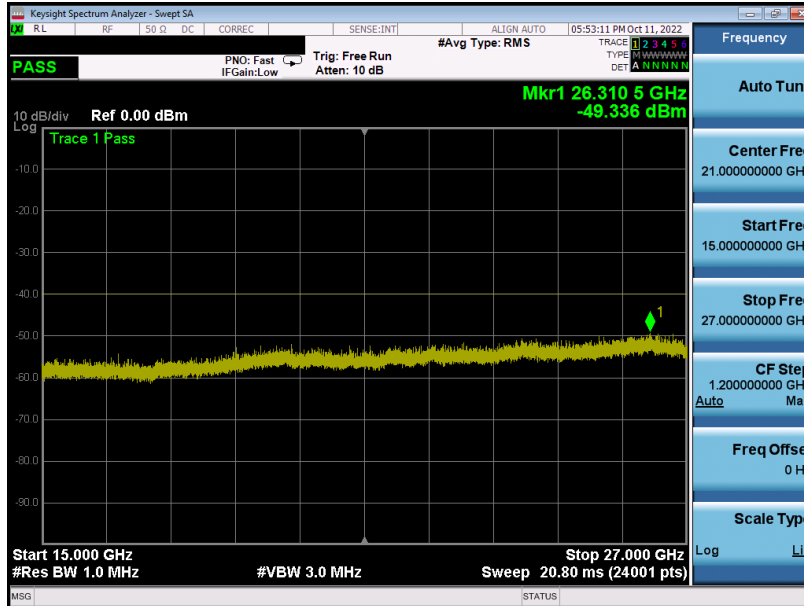


Plot 7-79. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant C)

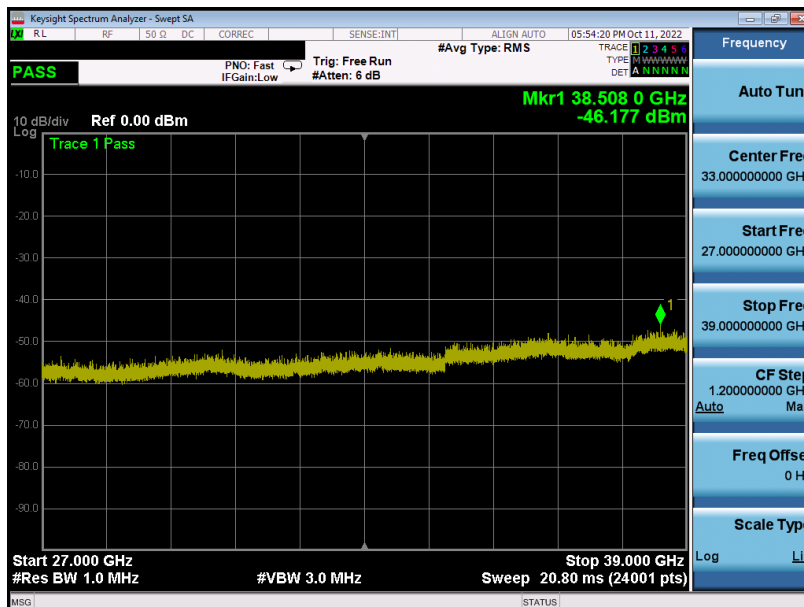


Plot 7-80. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant C)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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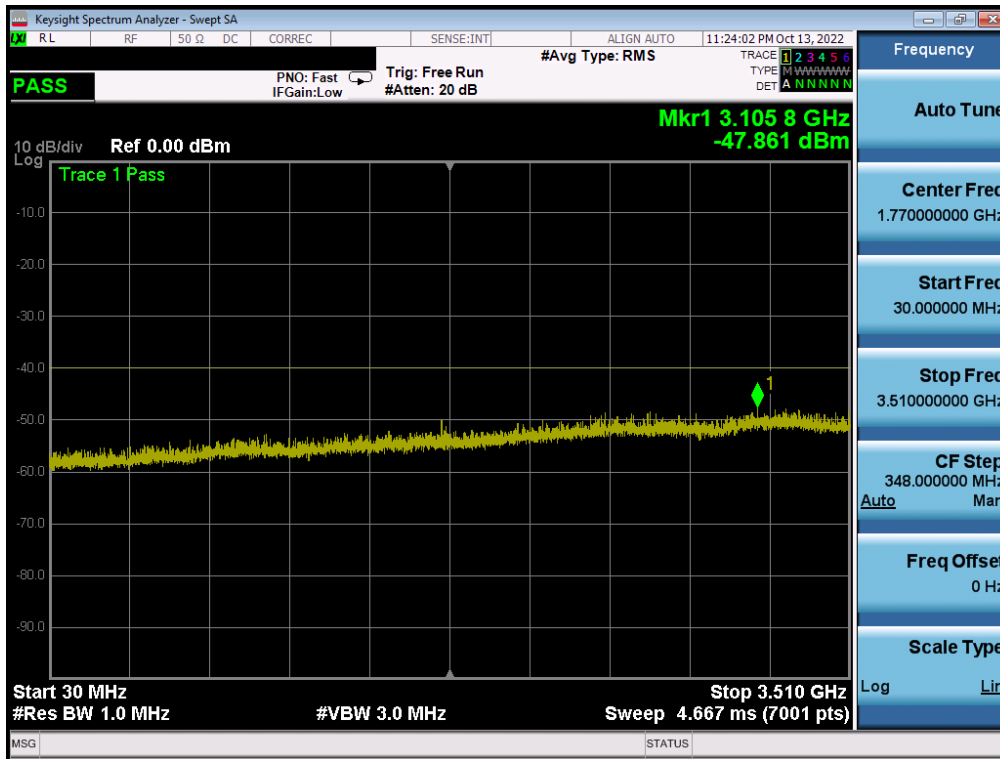
Plot 7-81. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant C)



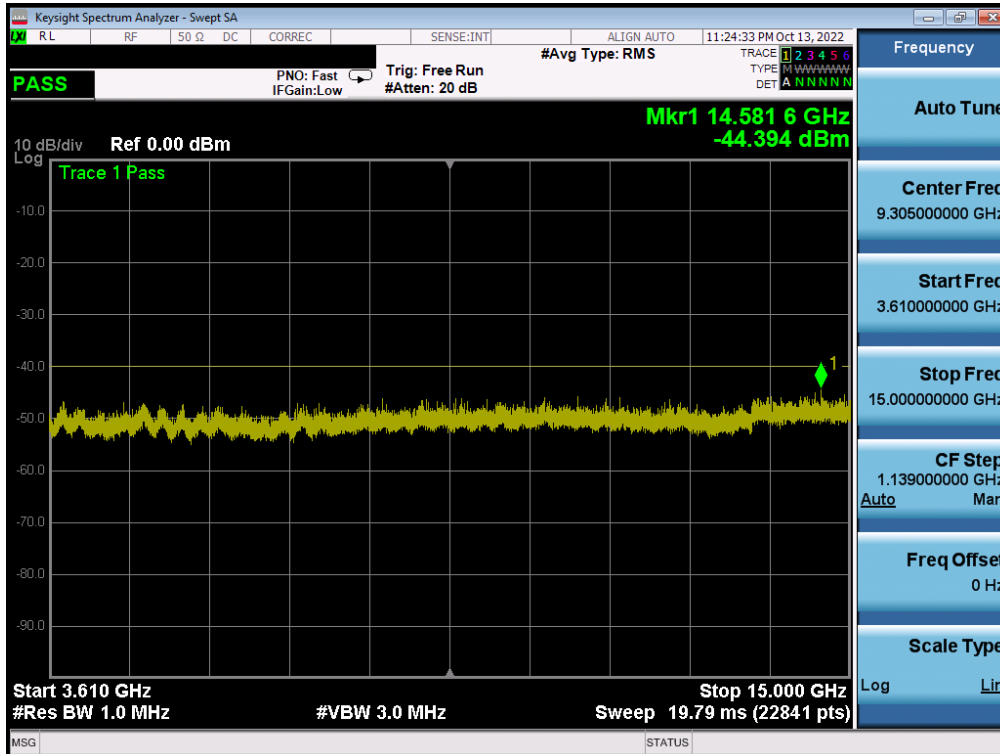
Plot 7-82. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant C)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant I

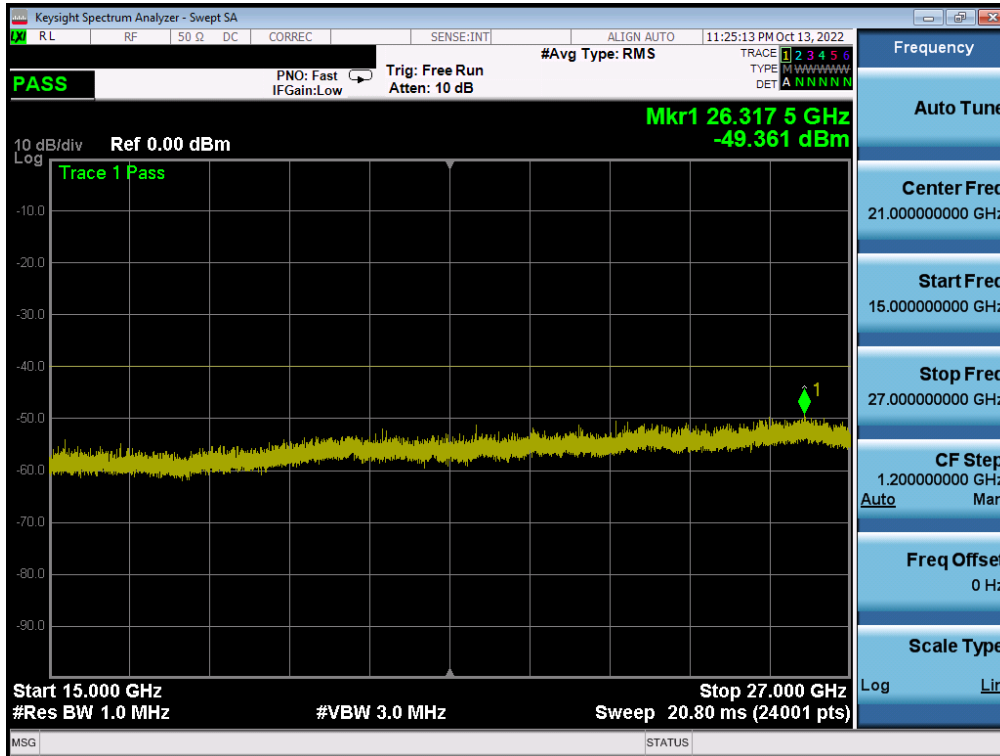


Plot 7-83. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant I)

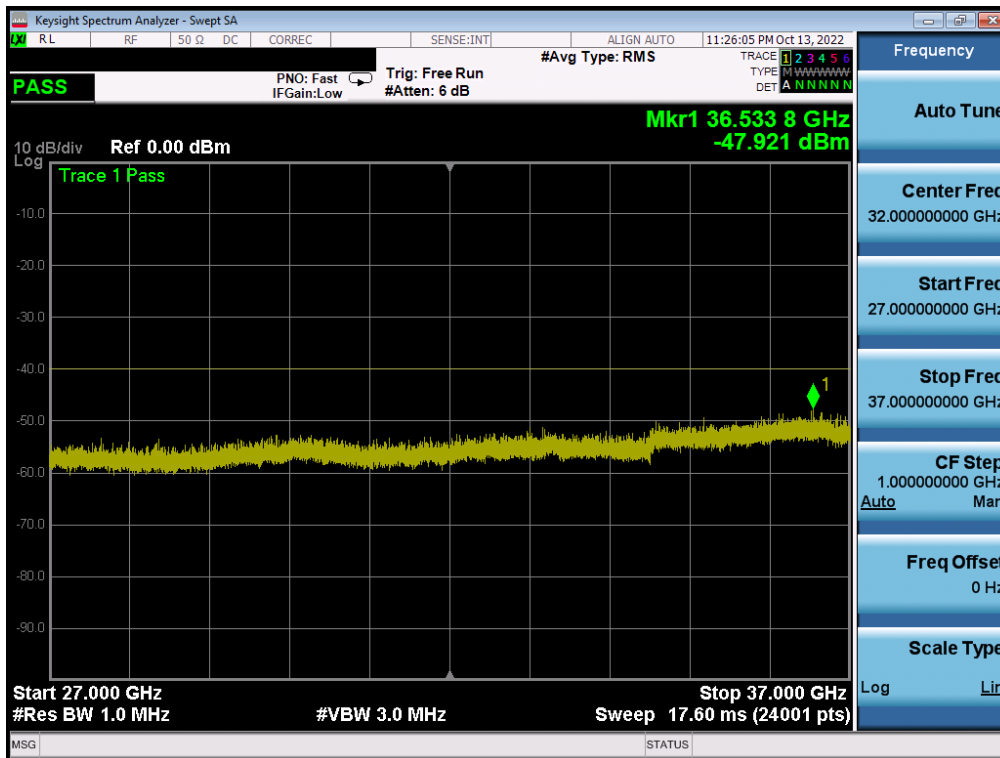


Plot 7-84. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant I)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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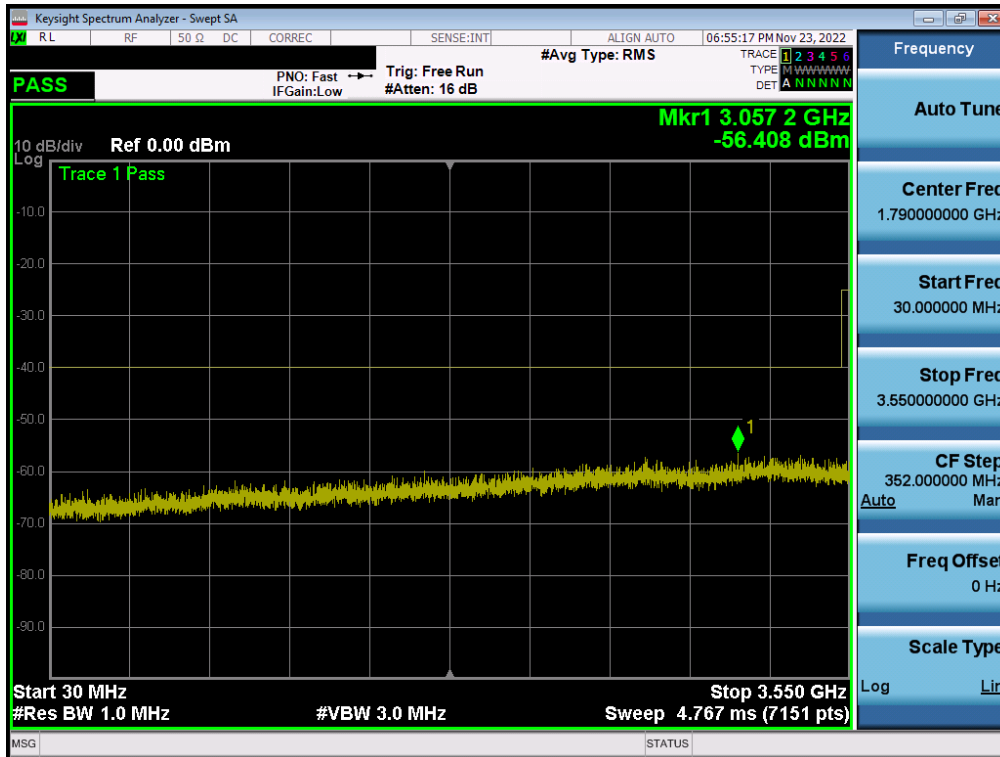


Plot 7-85. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant I)

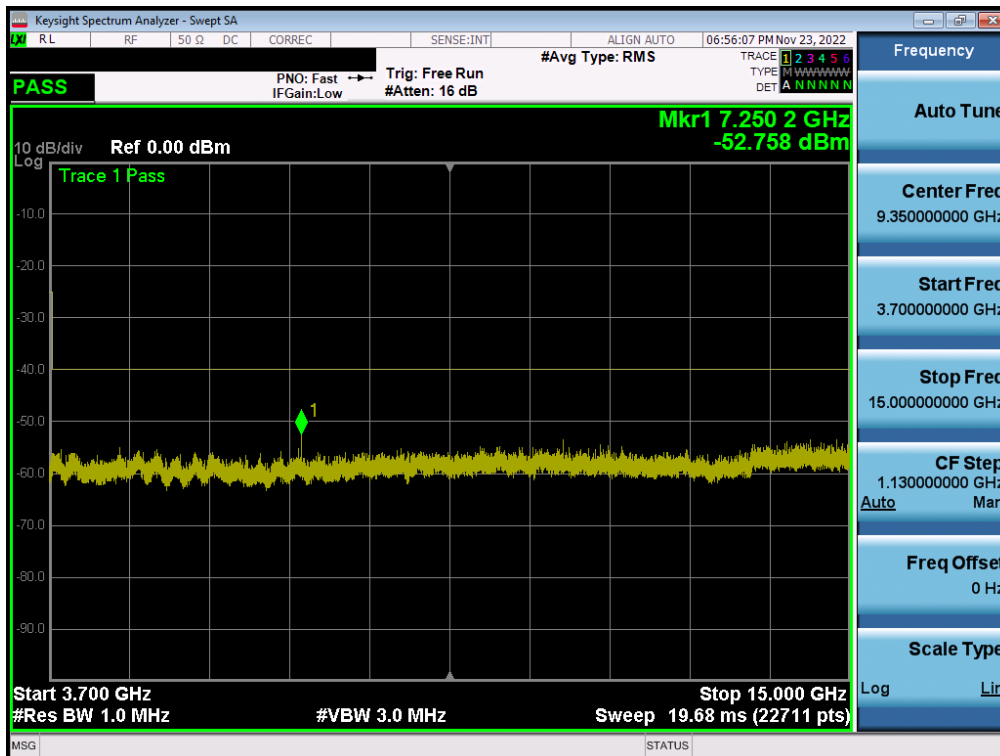


Plot 7-86. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant I)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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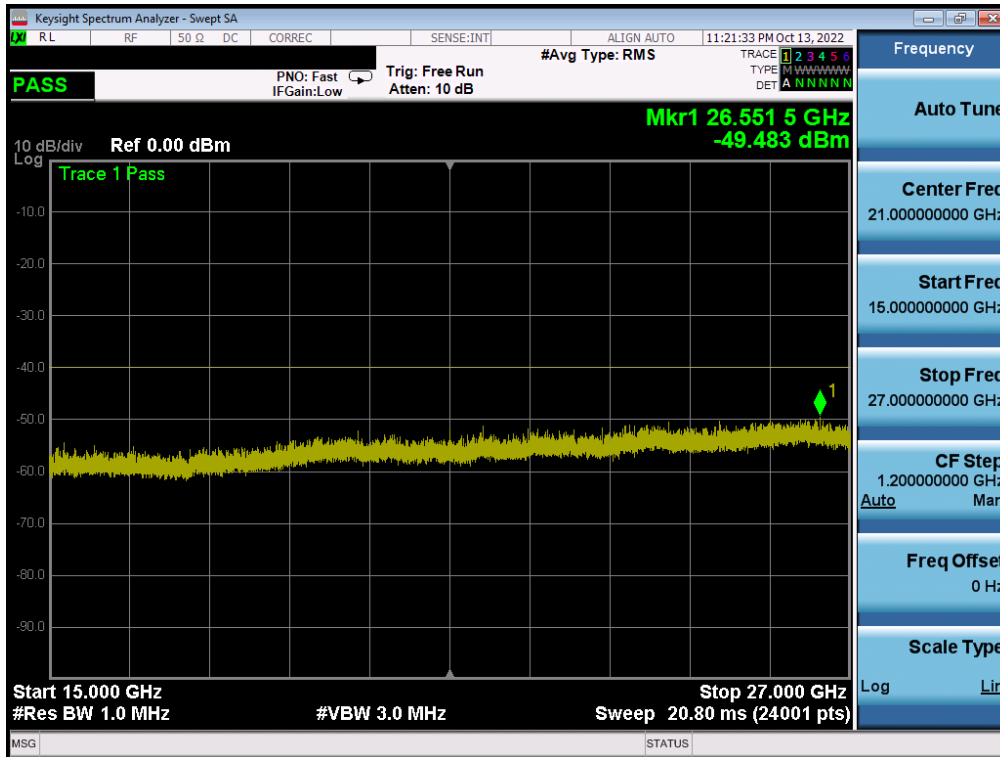


Plot 7-87. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant I)

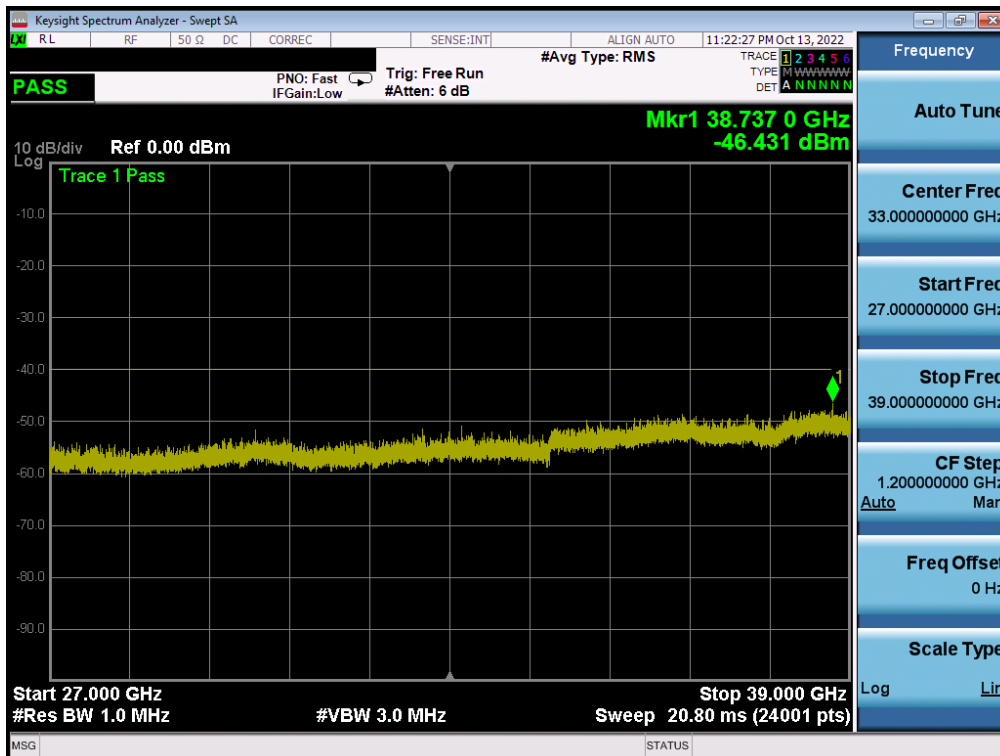


Plot 7-88. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant I)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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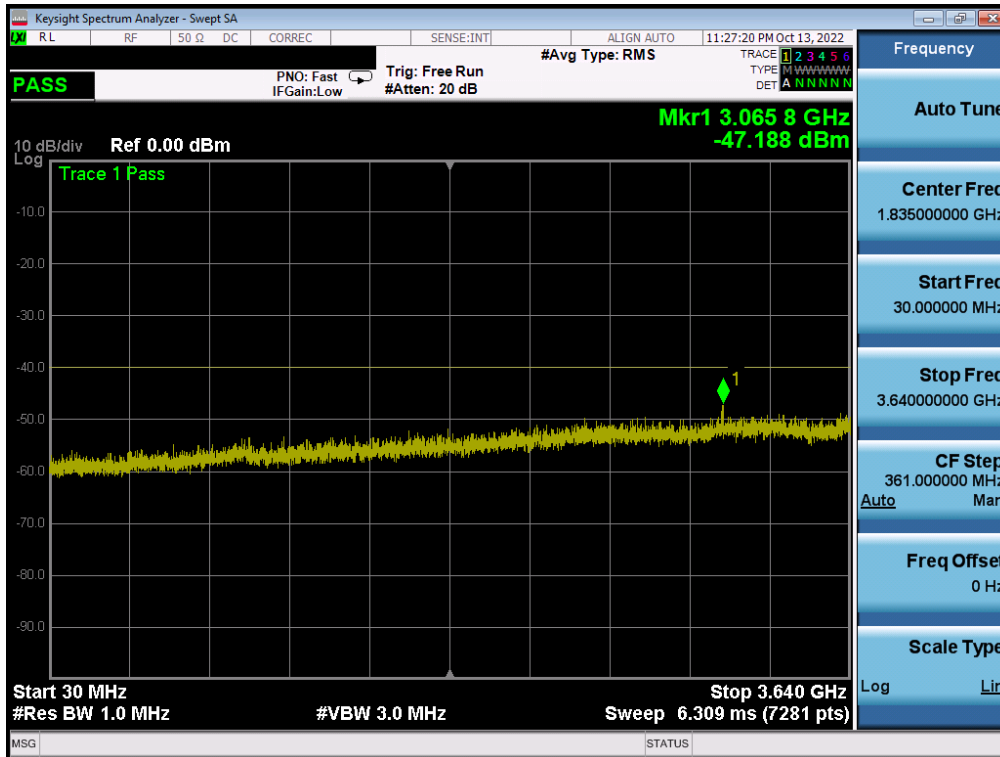


Plot 7-89. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant I)

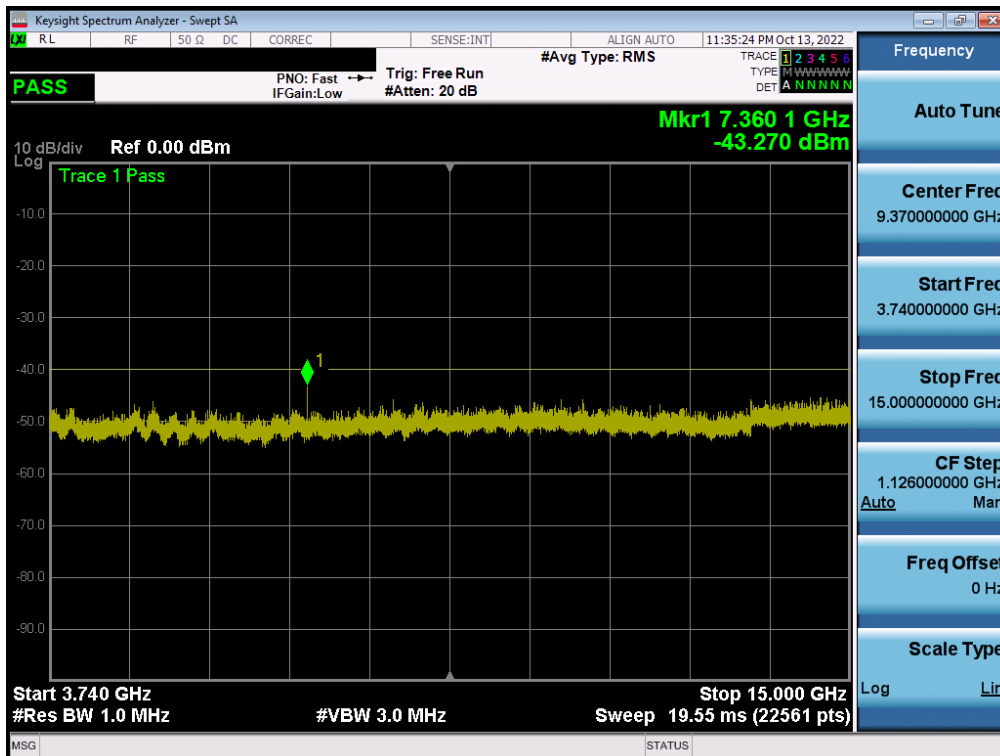


Plot 7-90. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant I)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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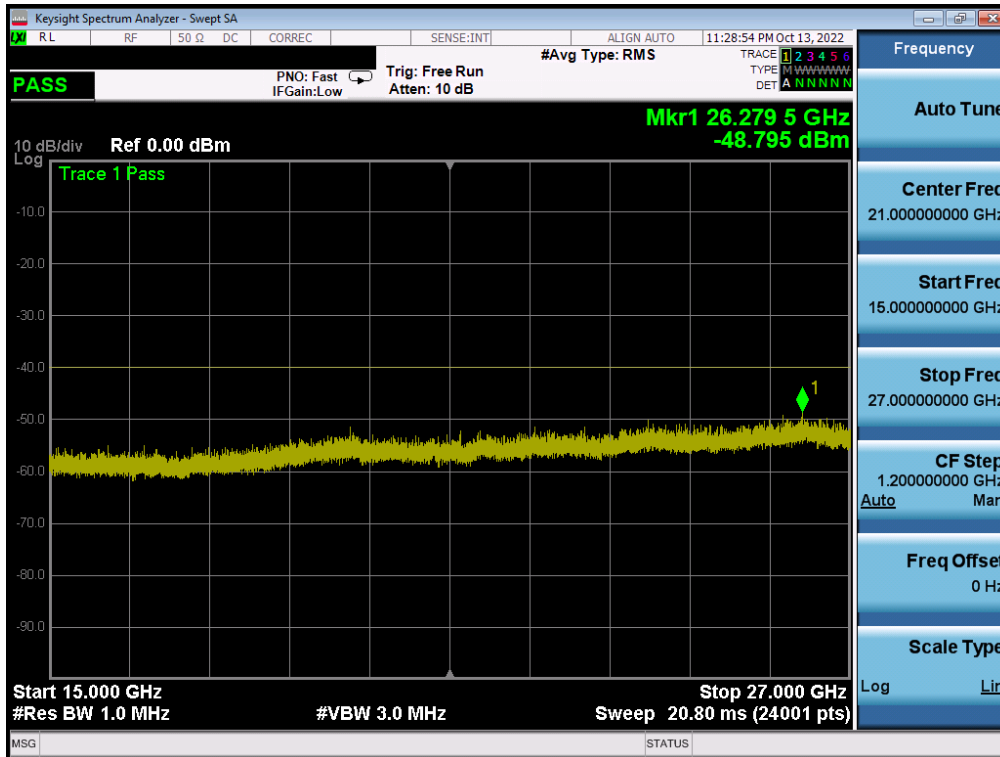


Plot 7-91. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant I)

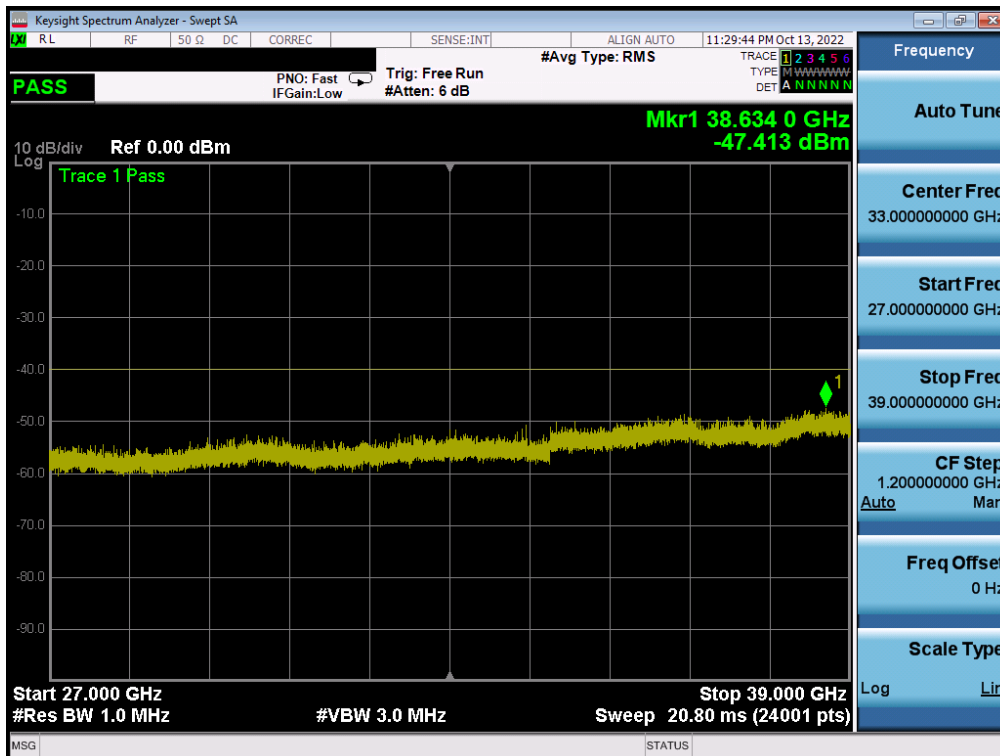


Plot 7-92. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant I)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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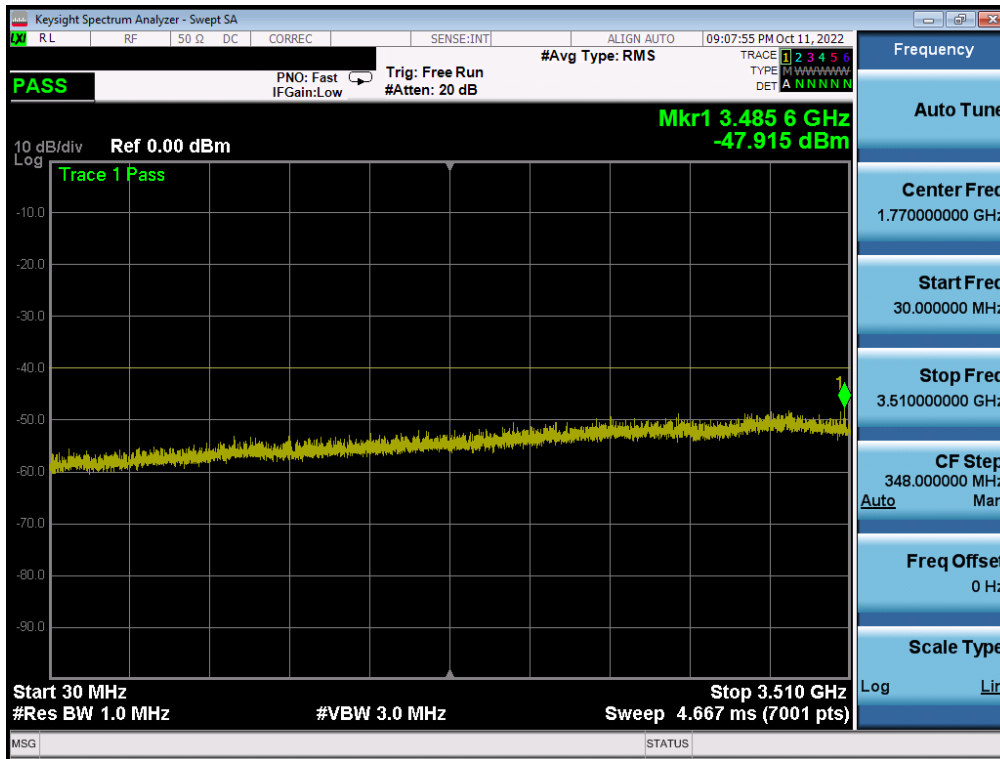
Plot 7-93. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant I)



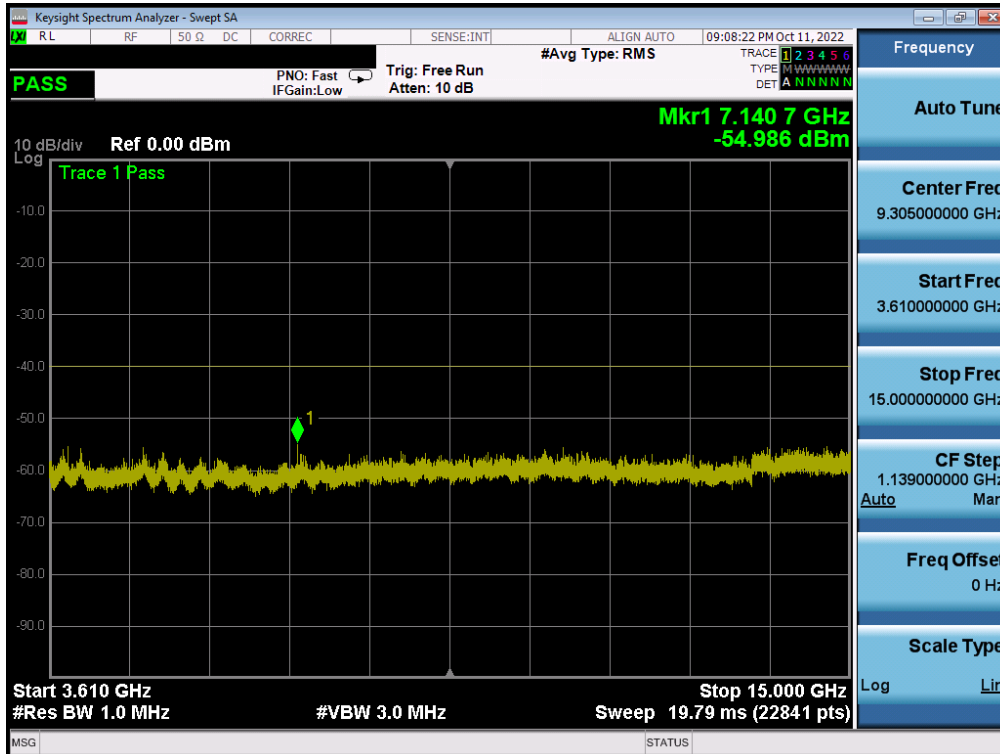
Plot 7-94. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant I)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant D

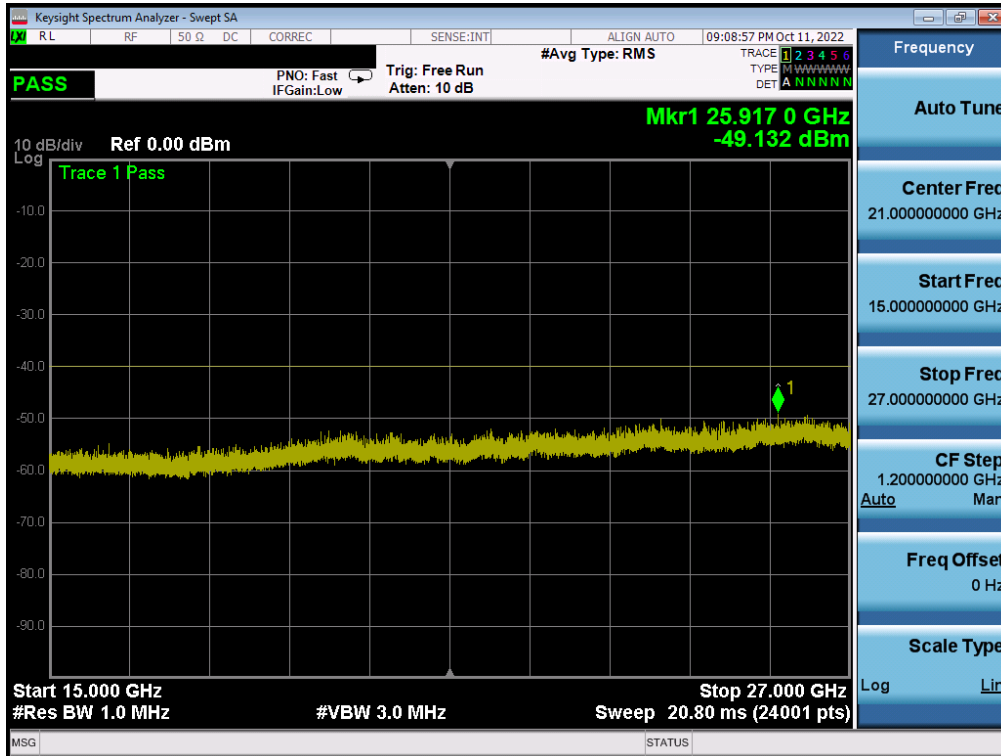


Plot 7-95. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)

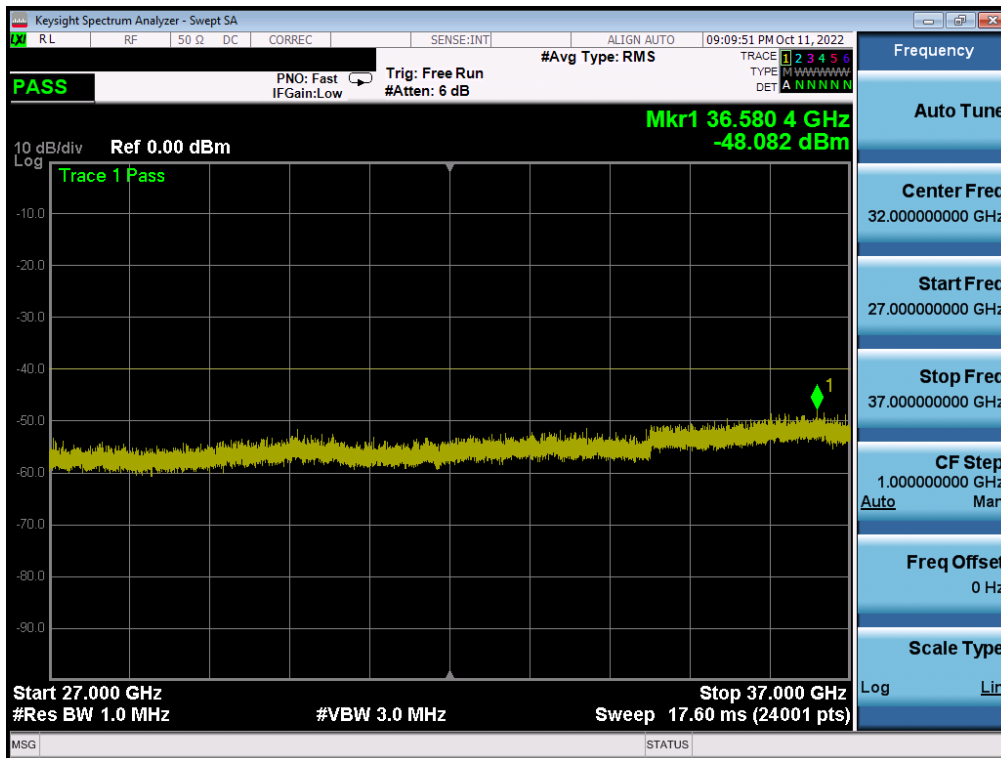


Plot 7-96. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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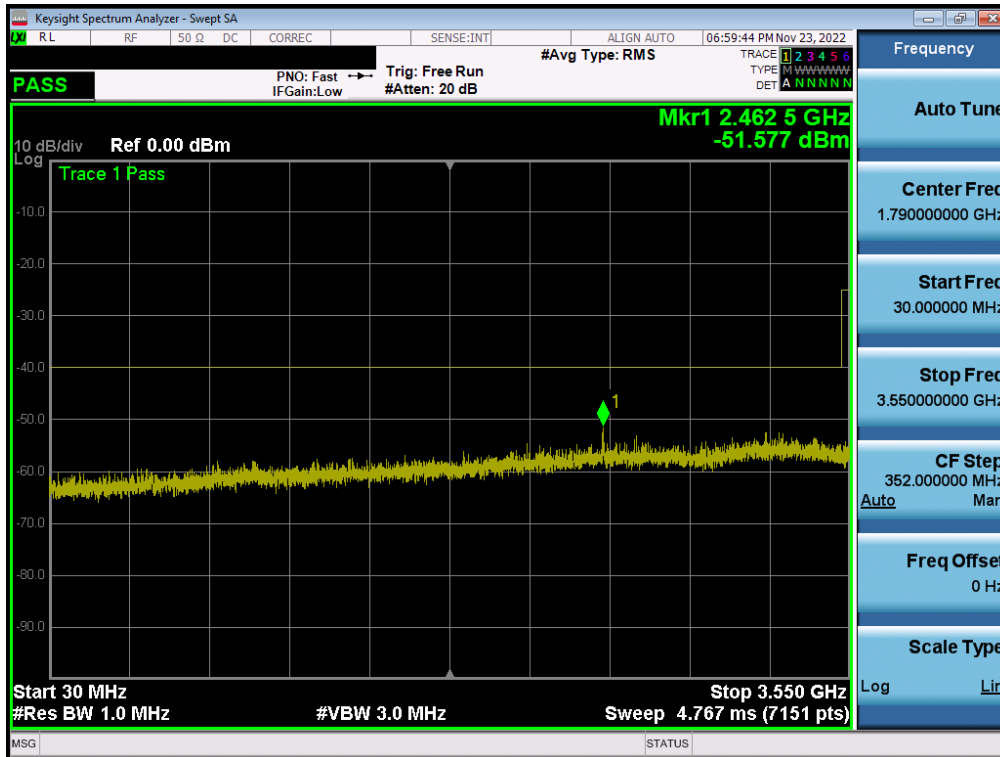


Plot 7-97. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)

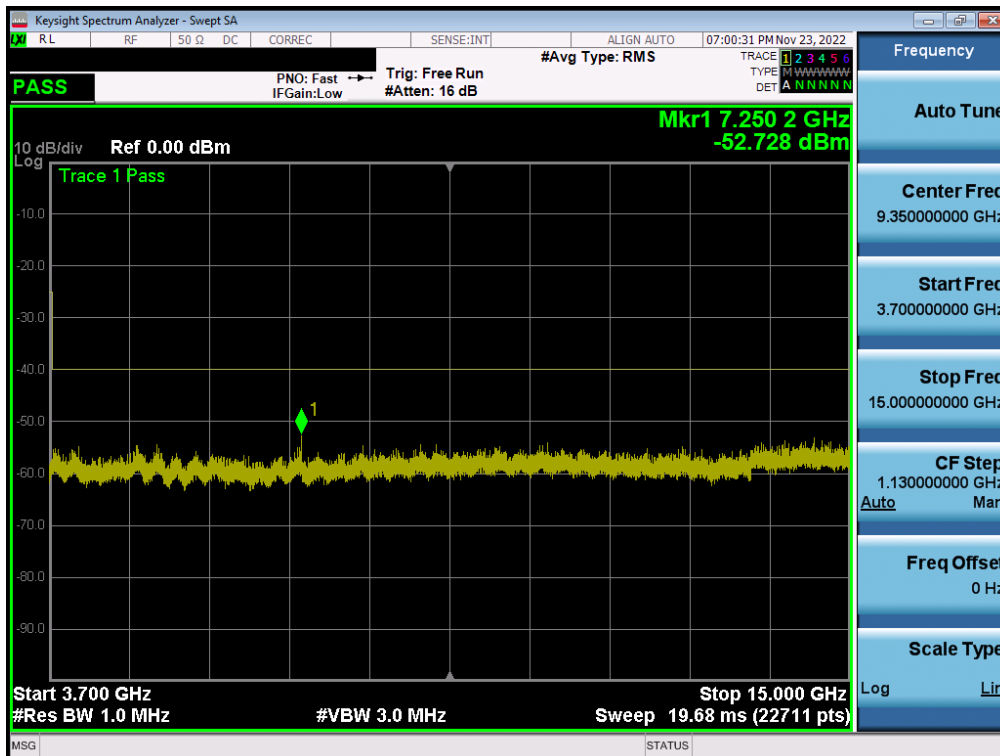


Plot 7-98. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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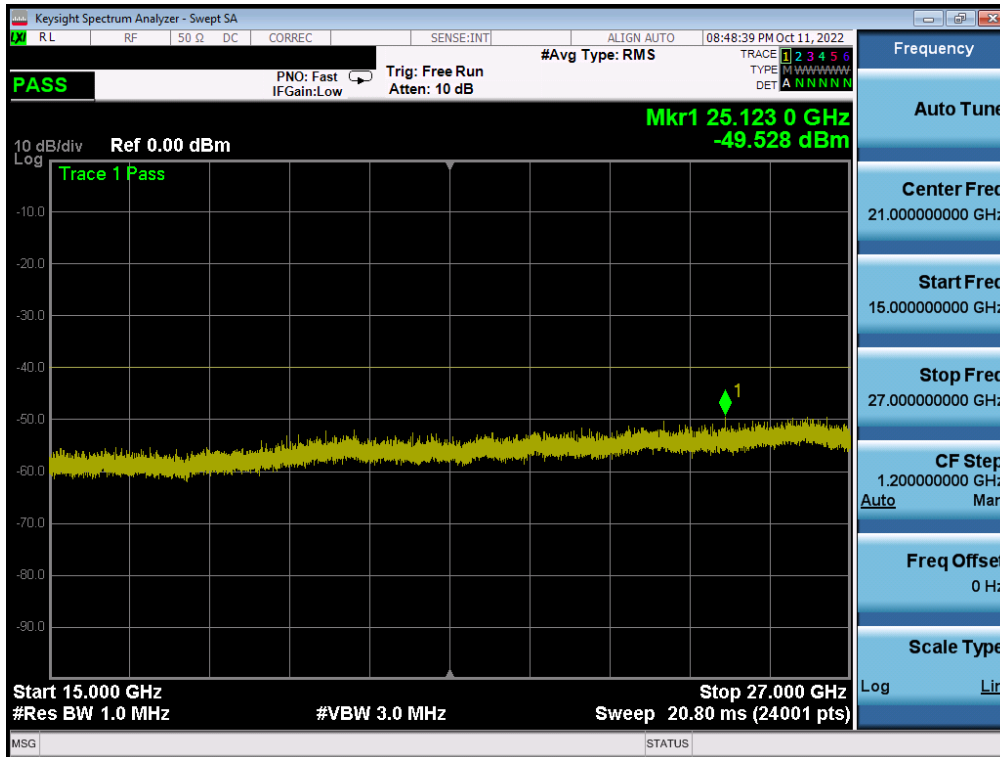


Plot 7-99. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)

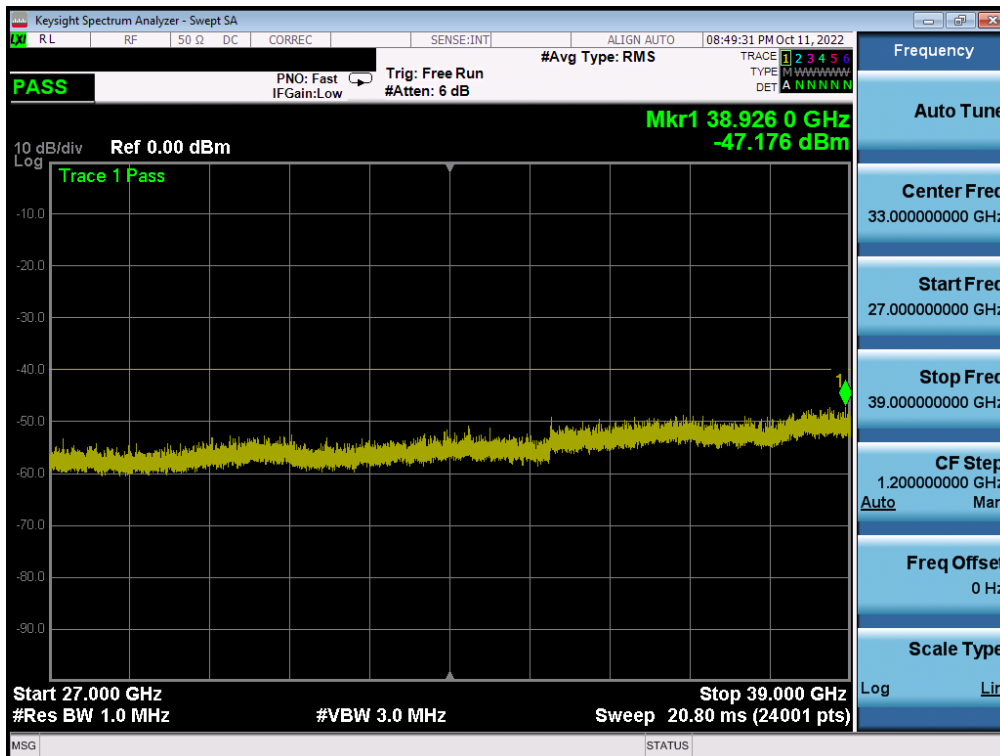


Plot 7-100. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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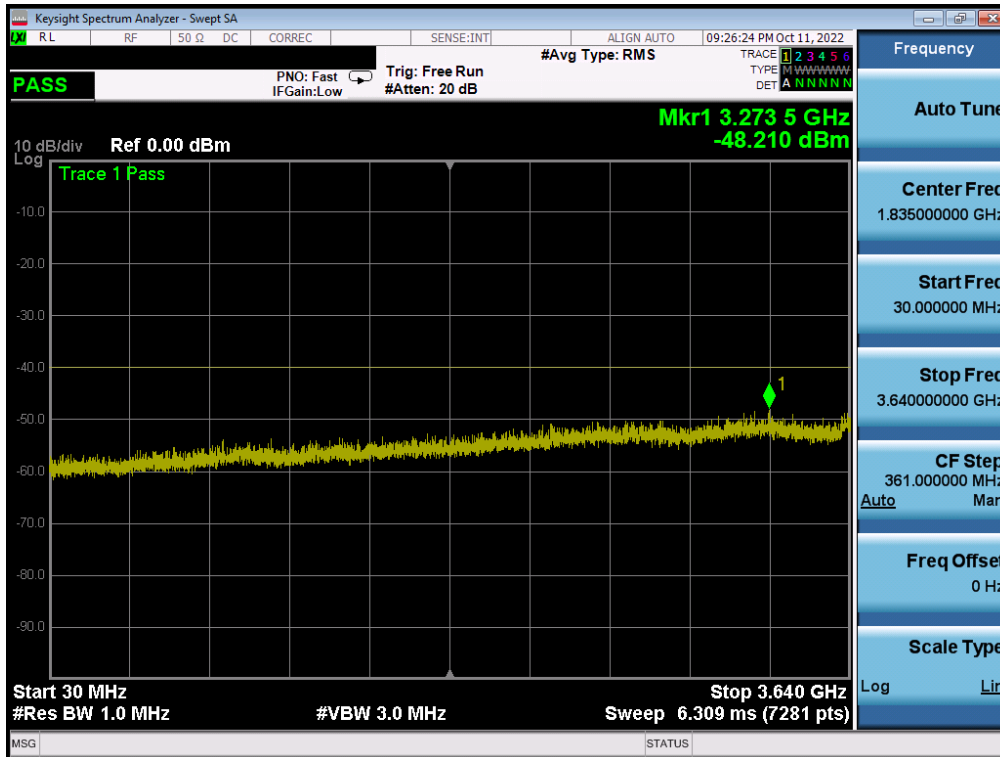


Plot 7-101. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)

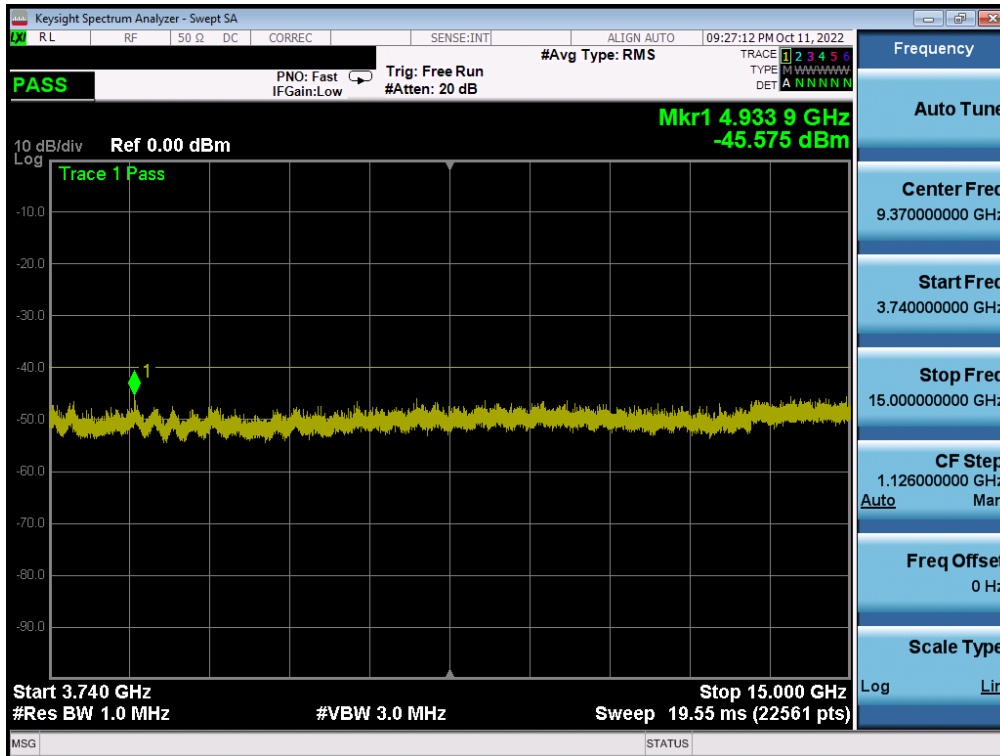


Plot 7-102. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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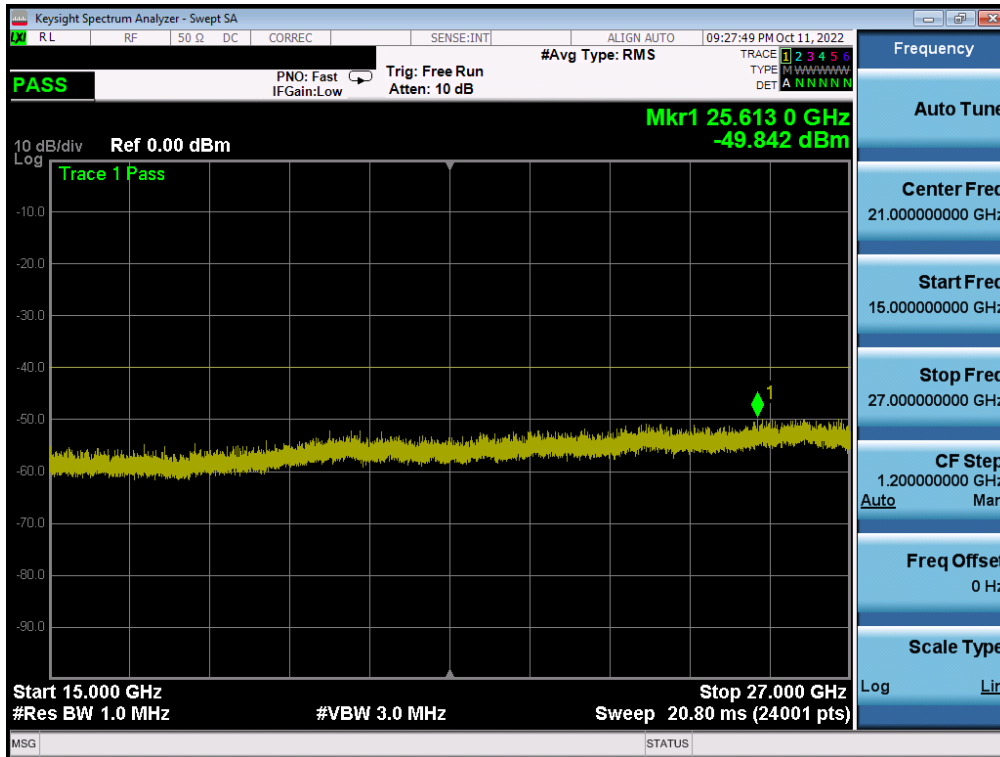


Plot 7-103. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)

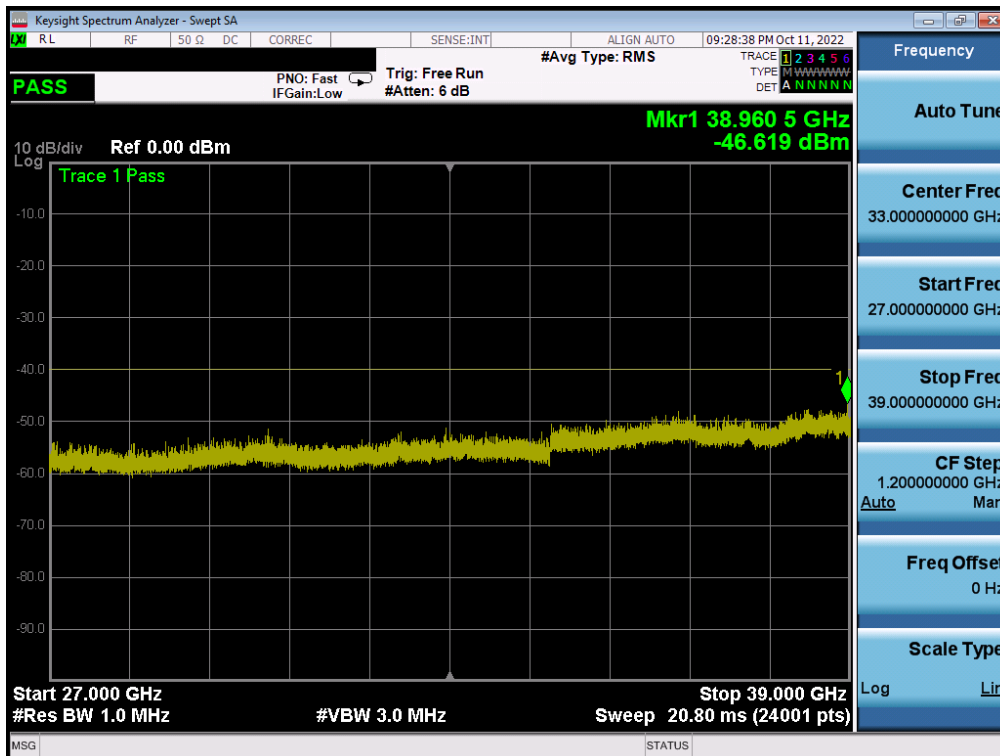


Plot 7-104. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-105. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)



Plot 7-106. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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7.5 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

For an End User Device, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed -25 dBm/MHz. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW \geq 1% of the emission bandwidth
4. VBW \geq 3 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

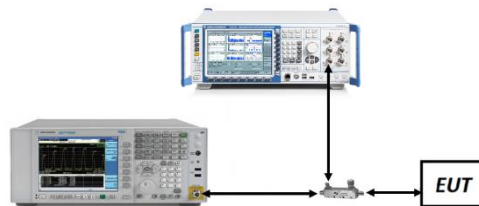


Figure 7-4. Test Instrument & Measurement Setup

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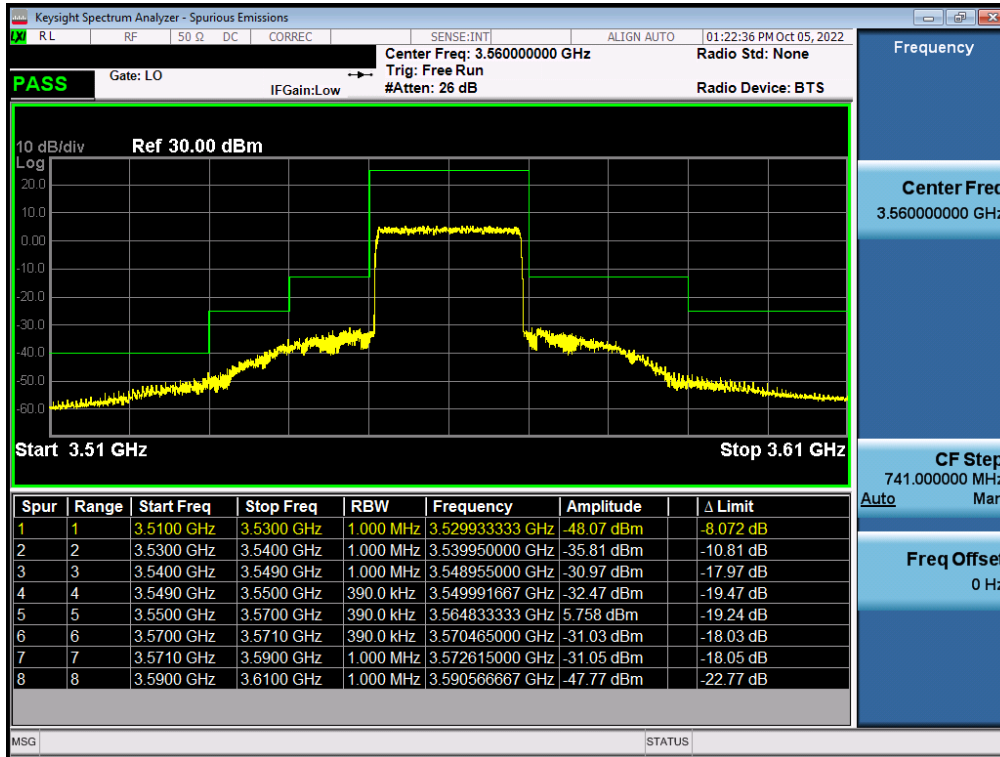
Test Notes

1. Per 96.41(e)(3)(i), compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The fundamental emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

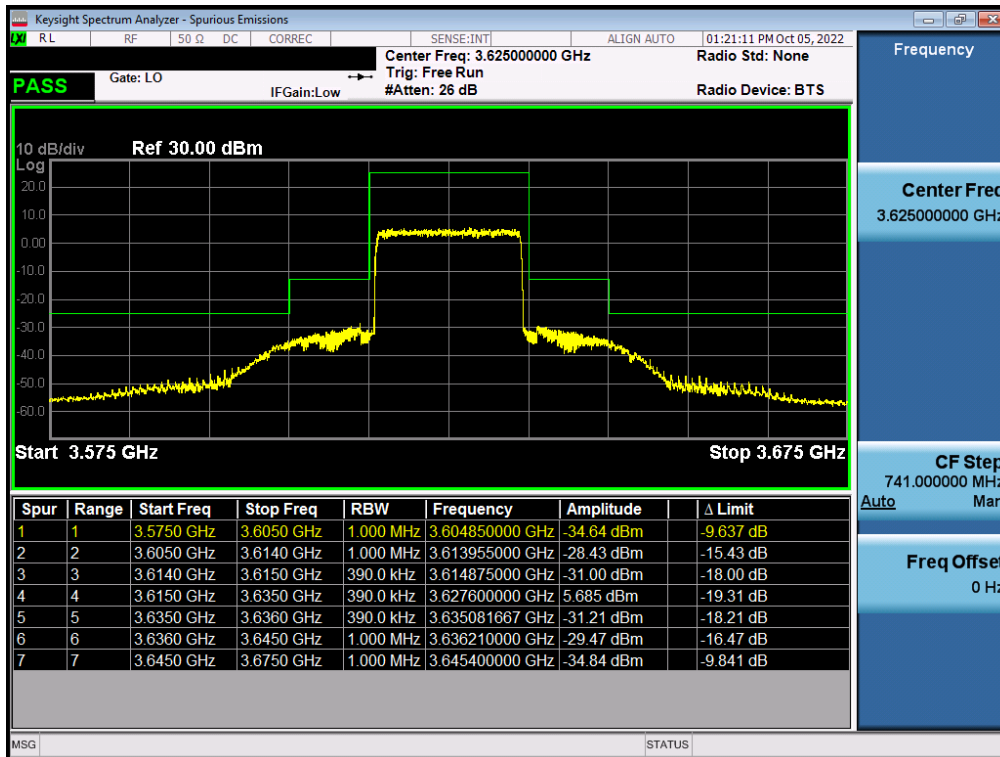
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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LTE Band 48

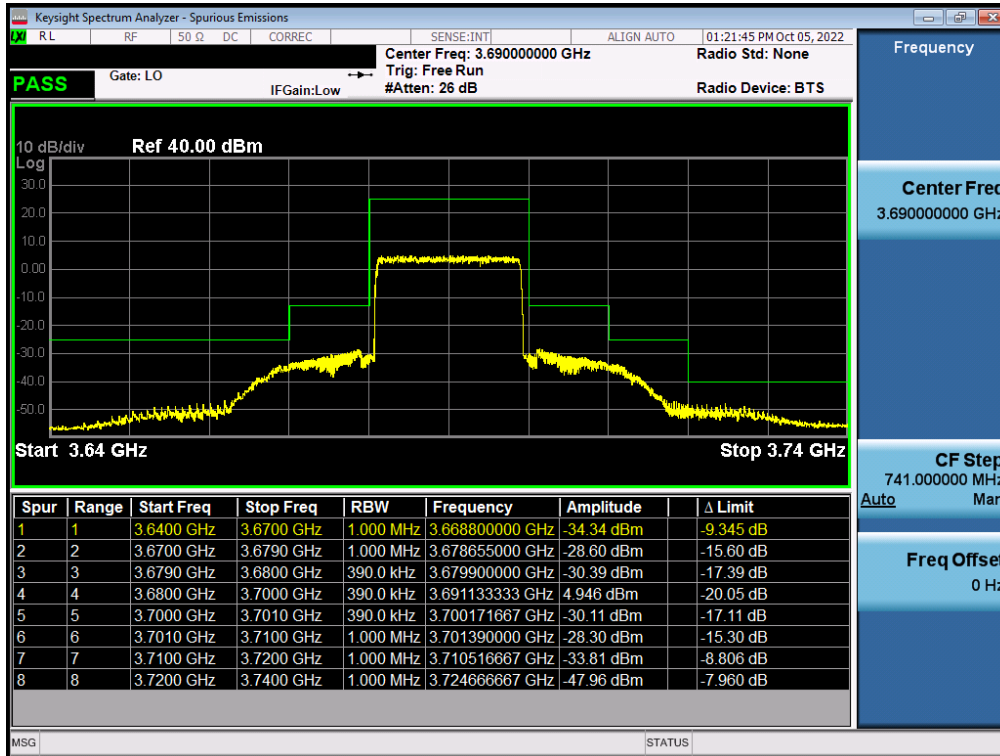


Plot 7-107. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

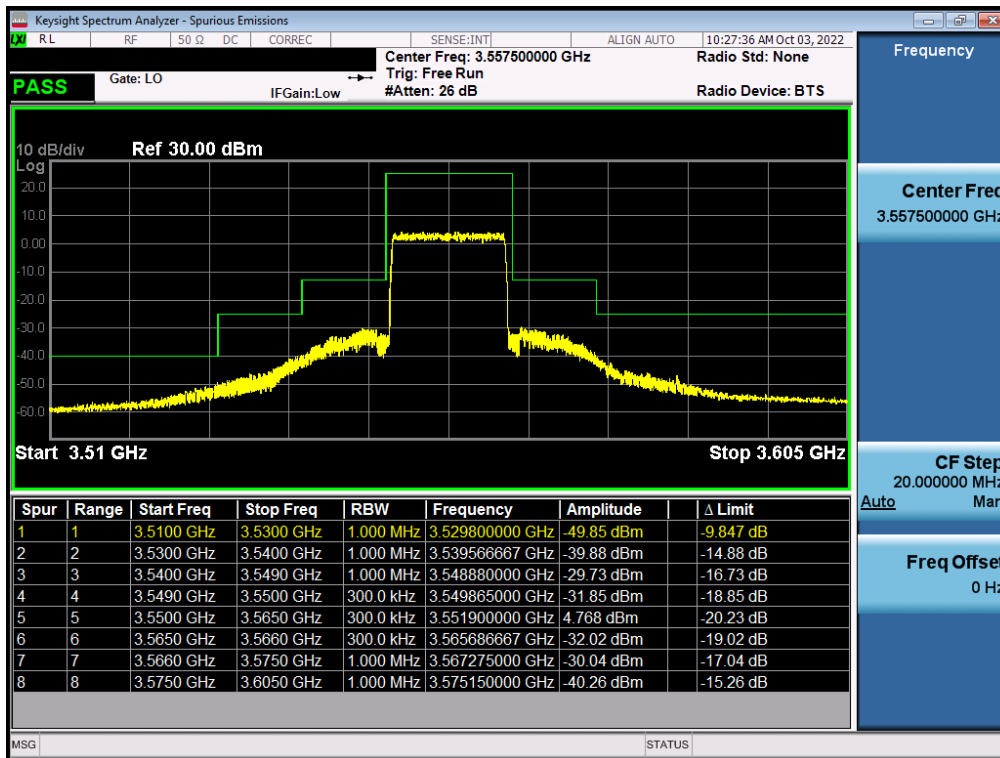


Plot 7-108. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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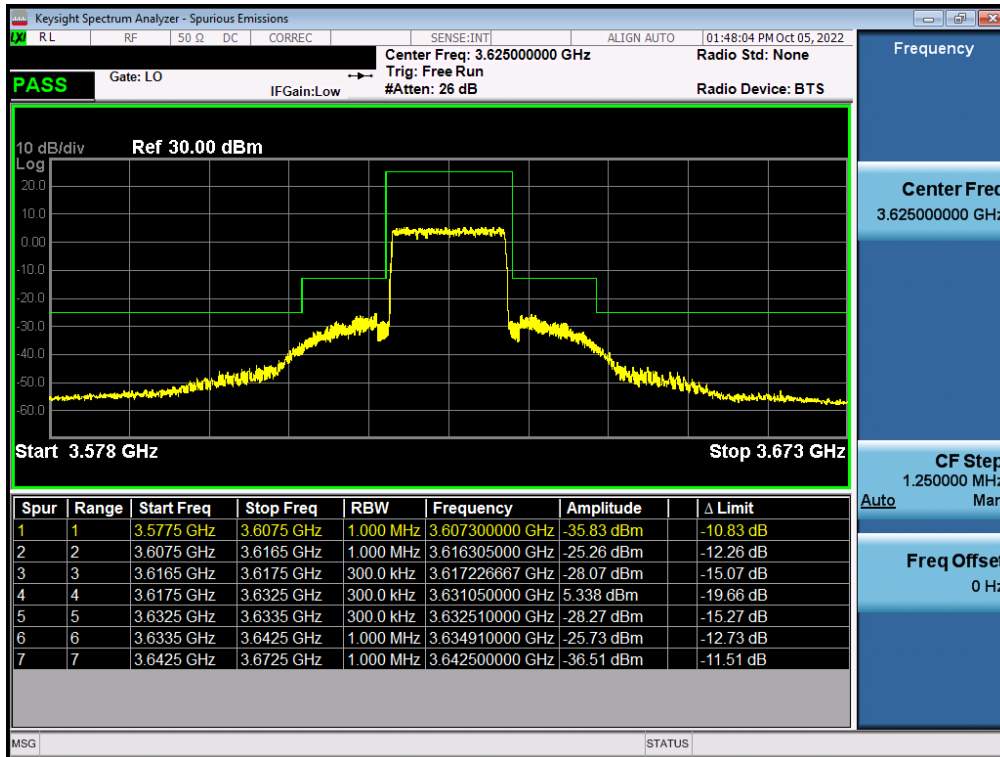


Plot 7-109. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel)

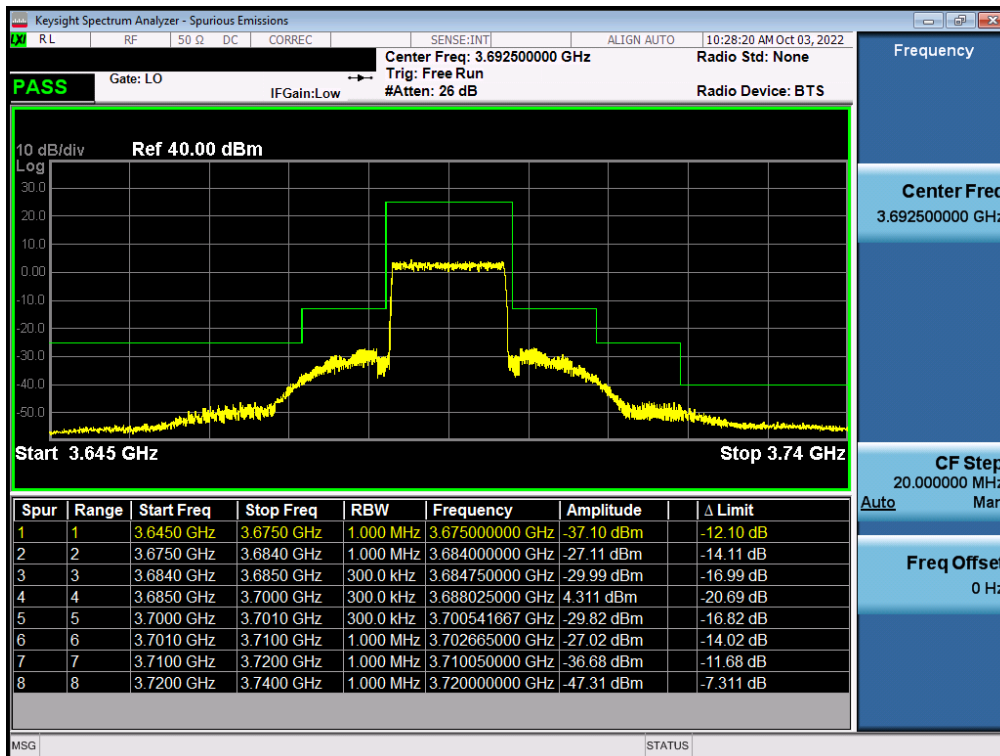


Plot 7-110. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - Low Channel)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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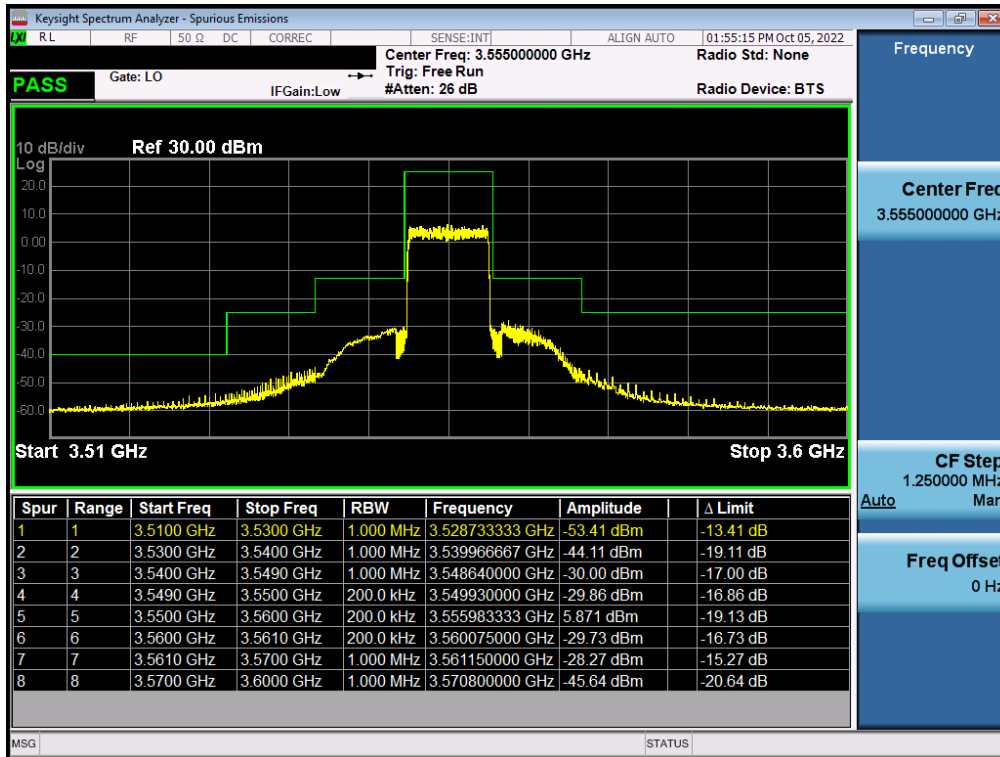


Plot 7-111. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - Mid Channel)

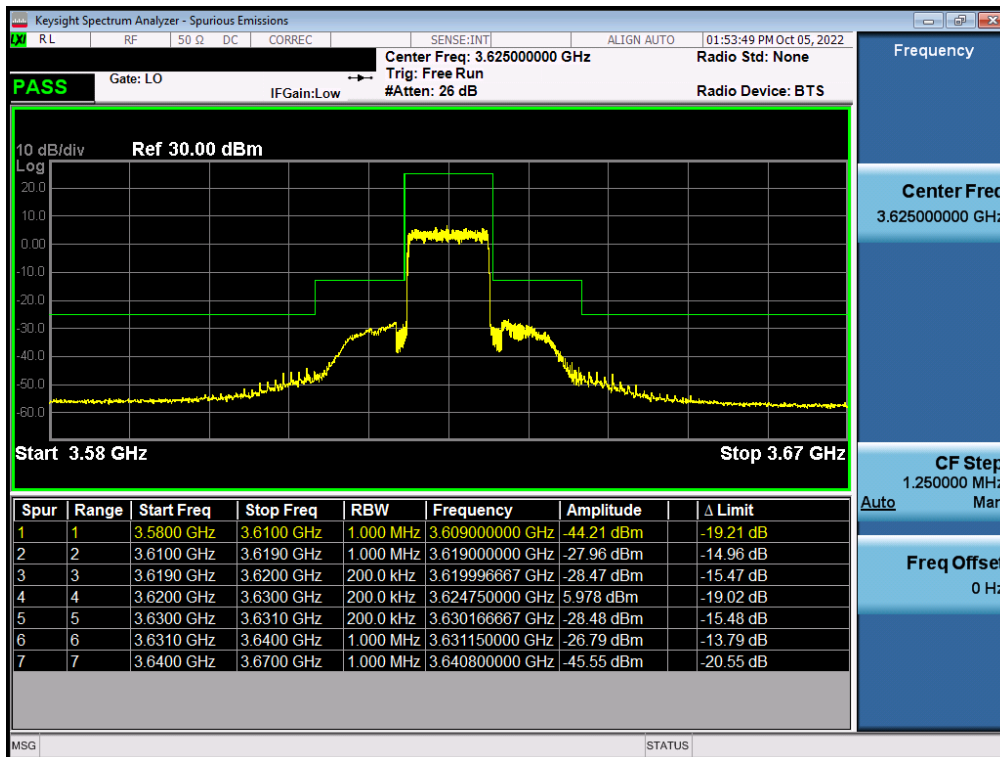


Plot 7-112. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - High Channel)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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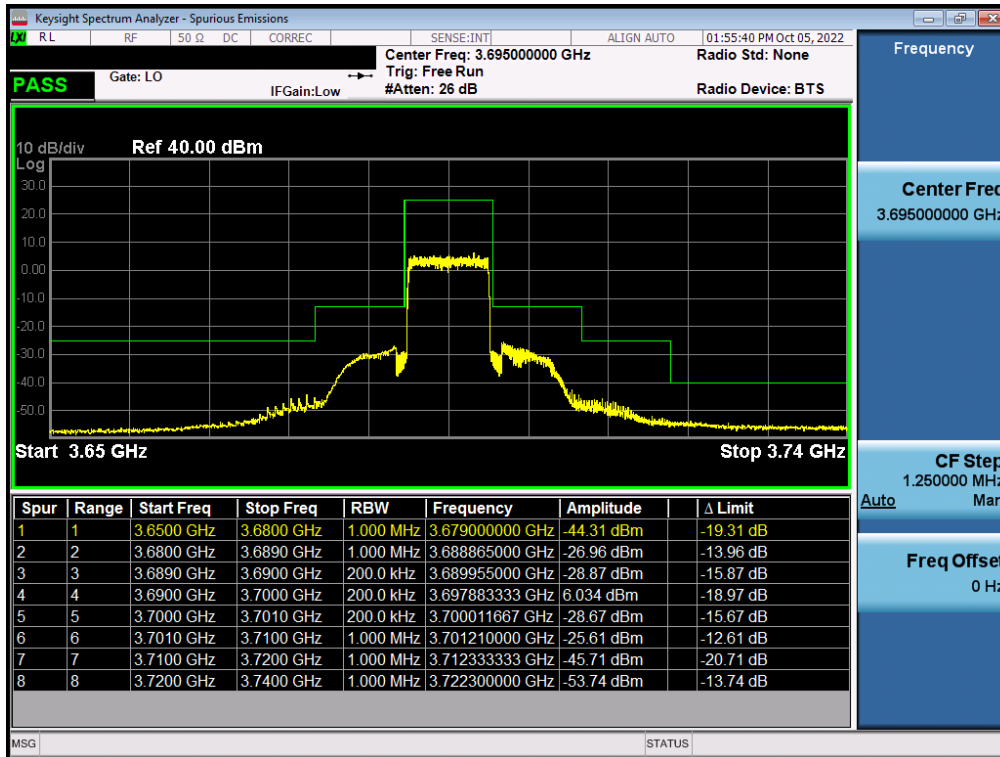


Plot 7-113. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - Low Channel)

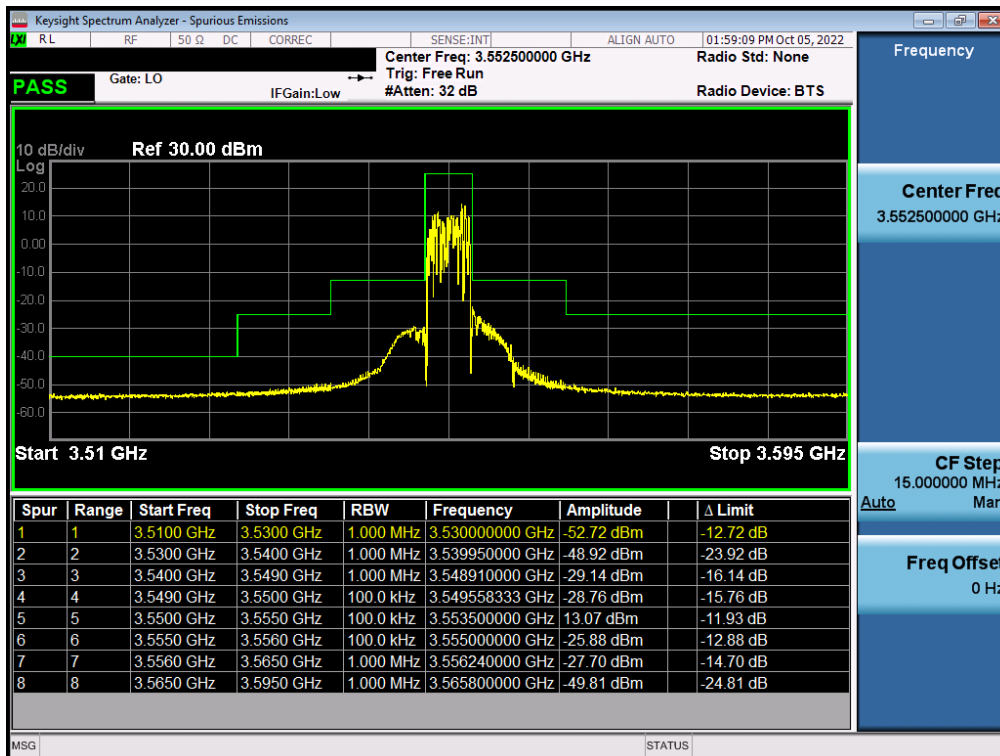


Plot 7-114. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - Mid Channel)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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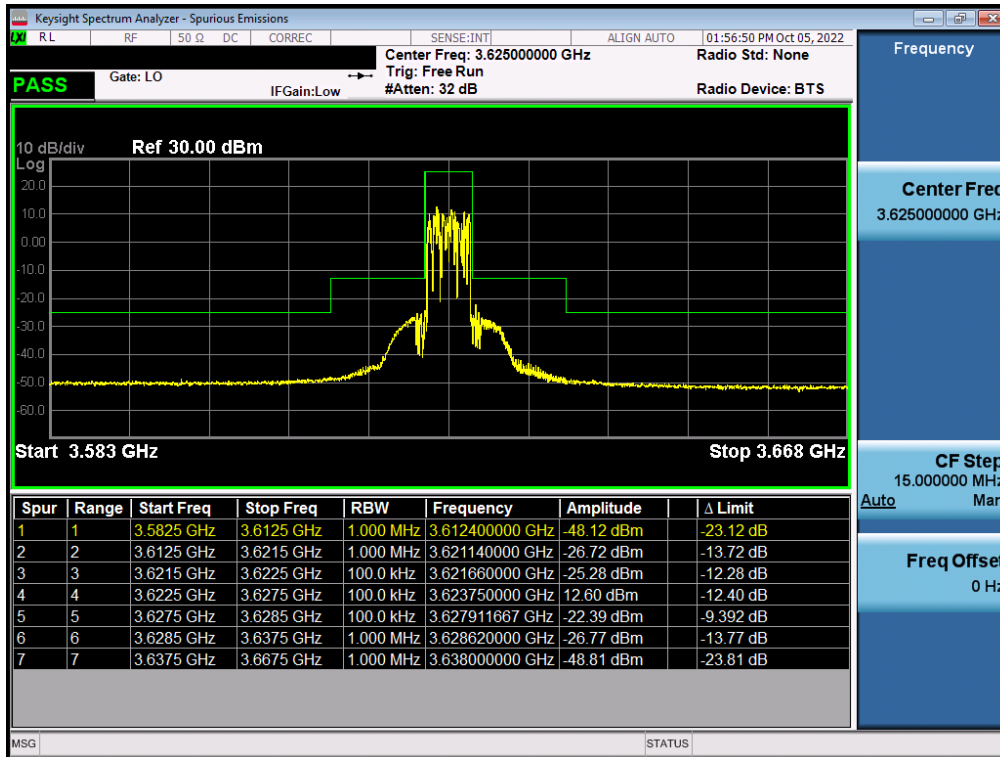


Plot 7-115. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - High Channel)

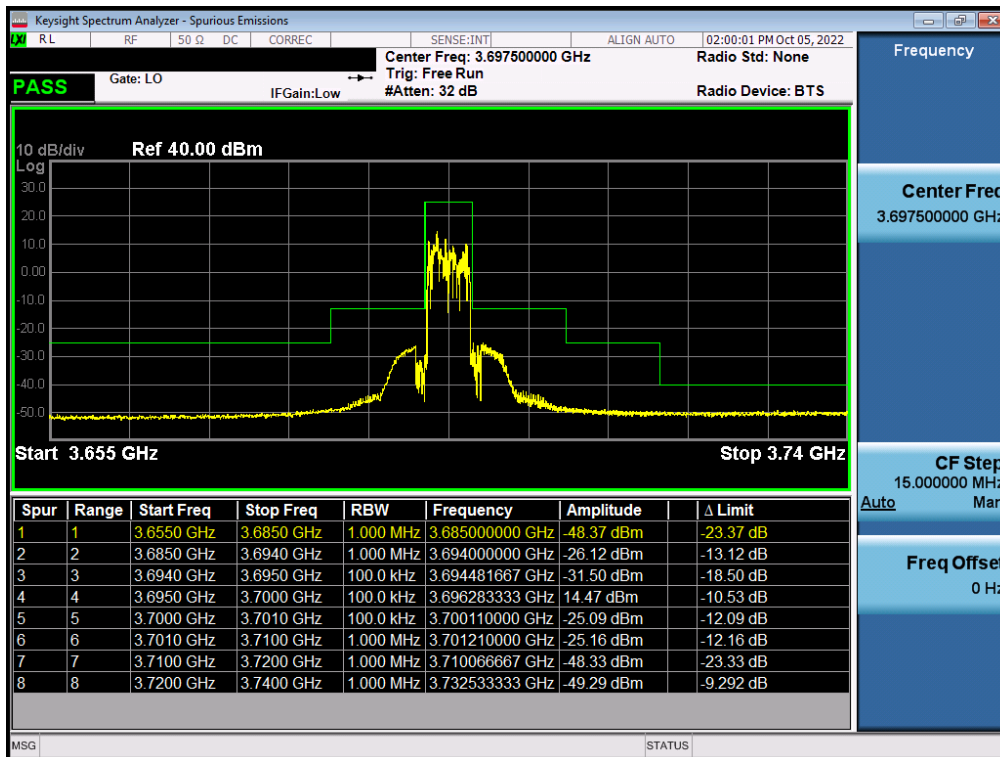


Plot 7-116. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Low Channel)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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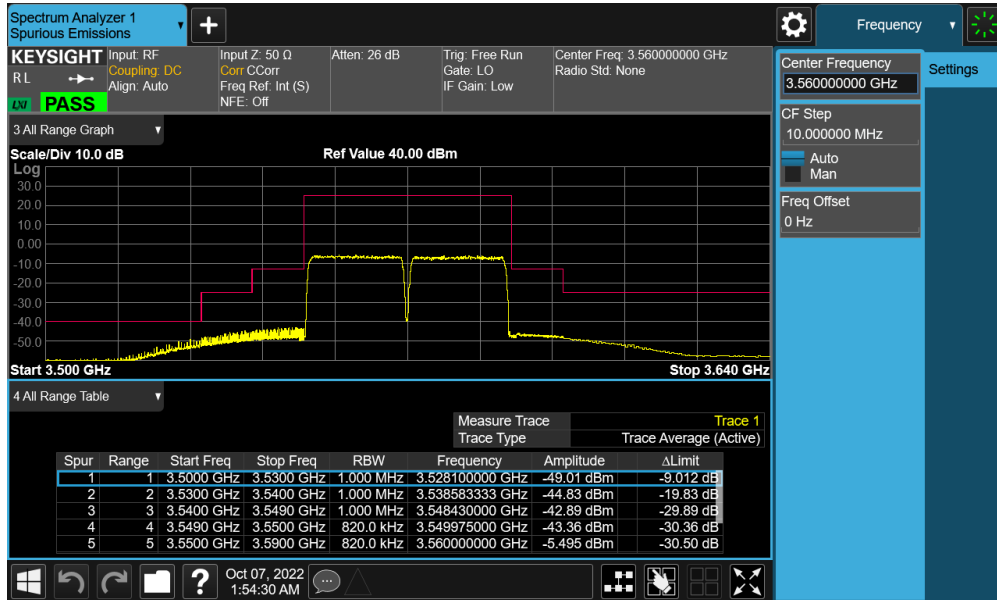


Plot 7-117. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Mid Channel)

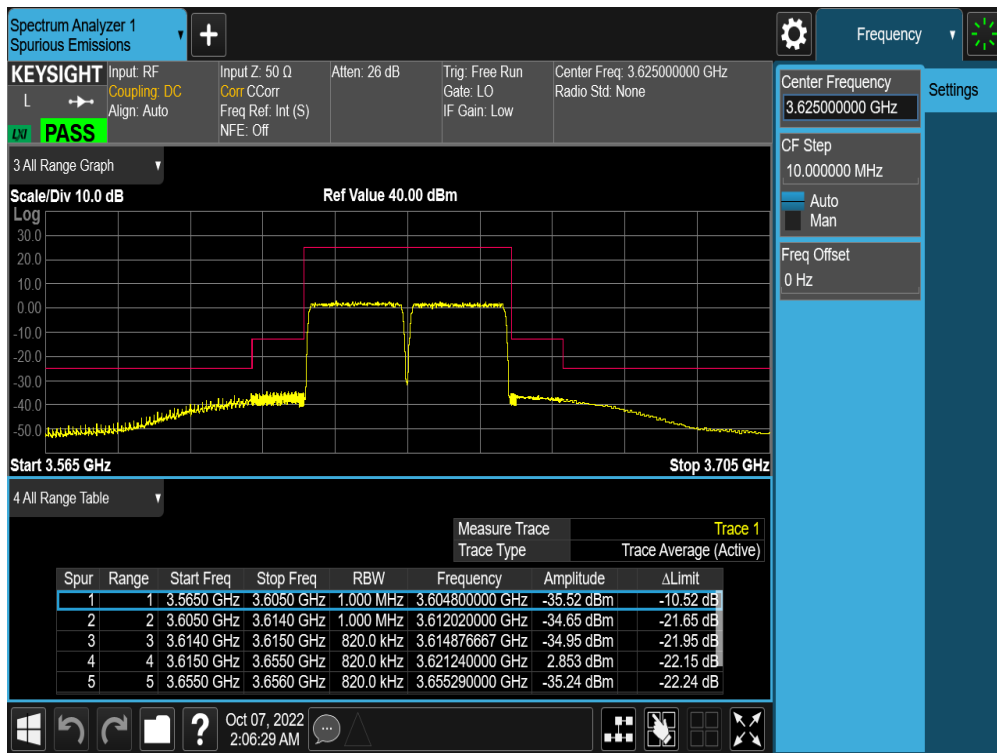


Plot 7-118. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - High Channel)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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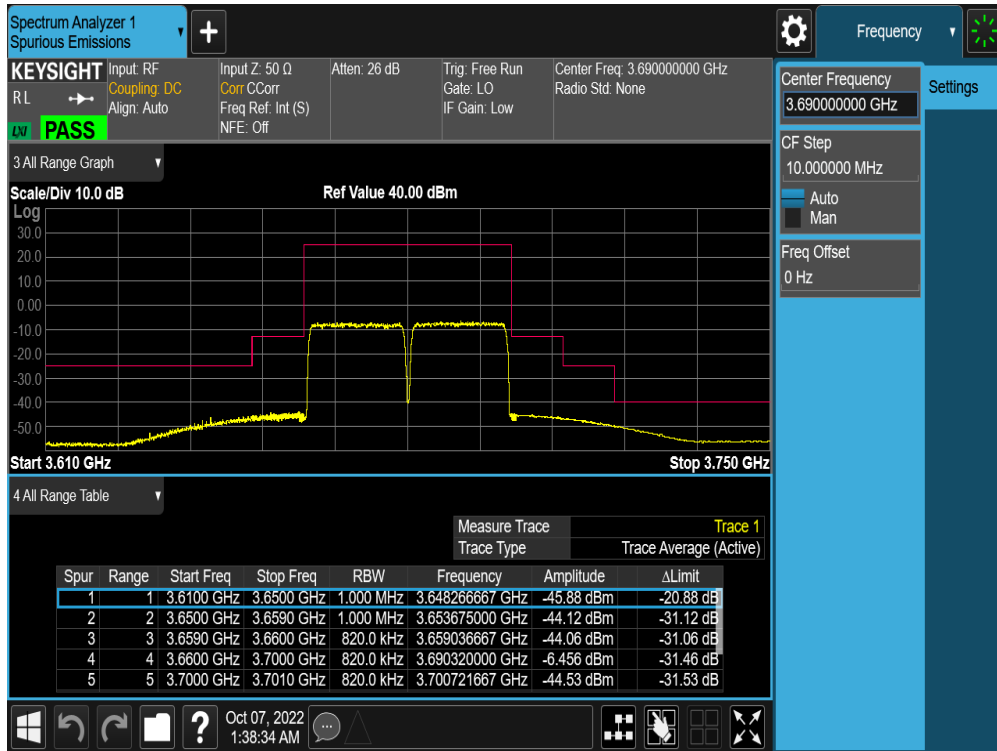


Plot 7-119. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Low Channel)



Plot 7-120. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Mid Channel)

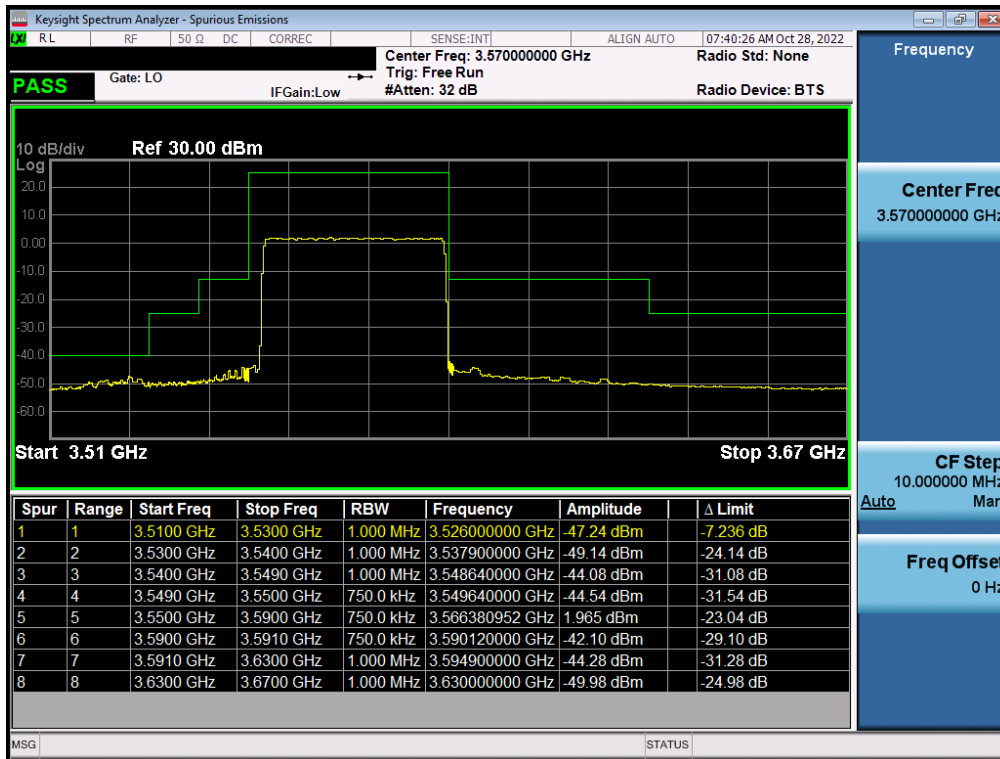
FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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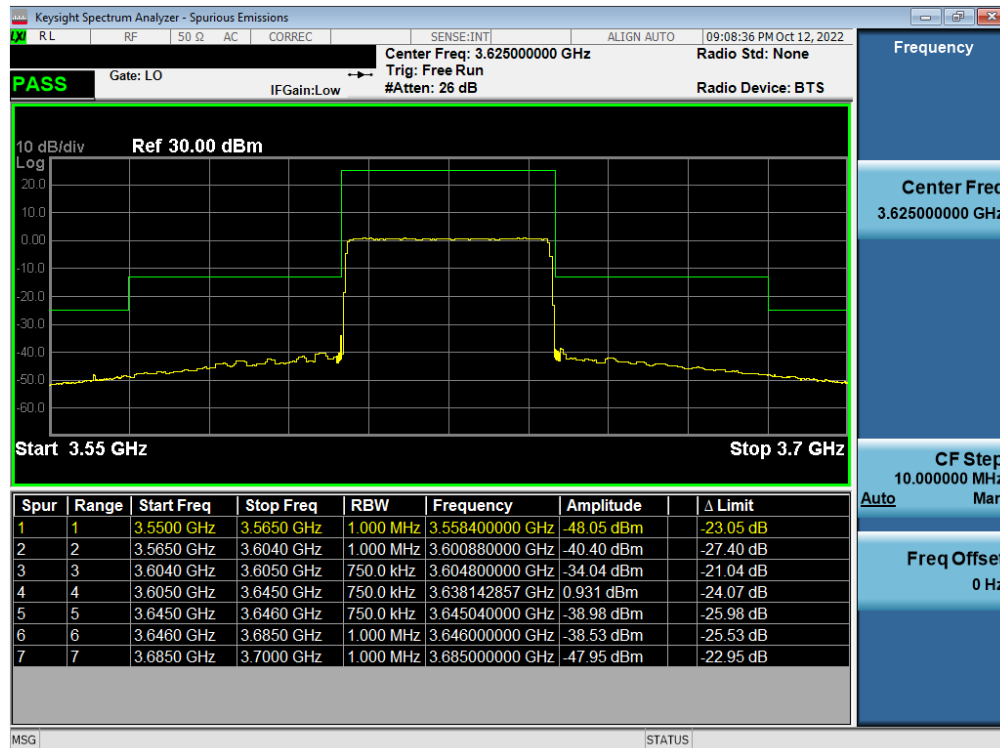
Plot 7-121. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - High Channel)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant F

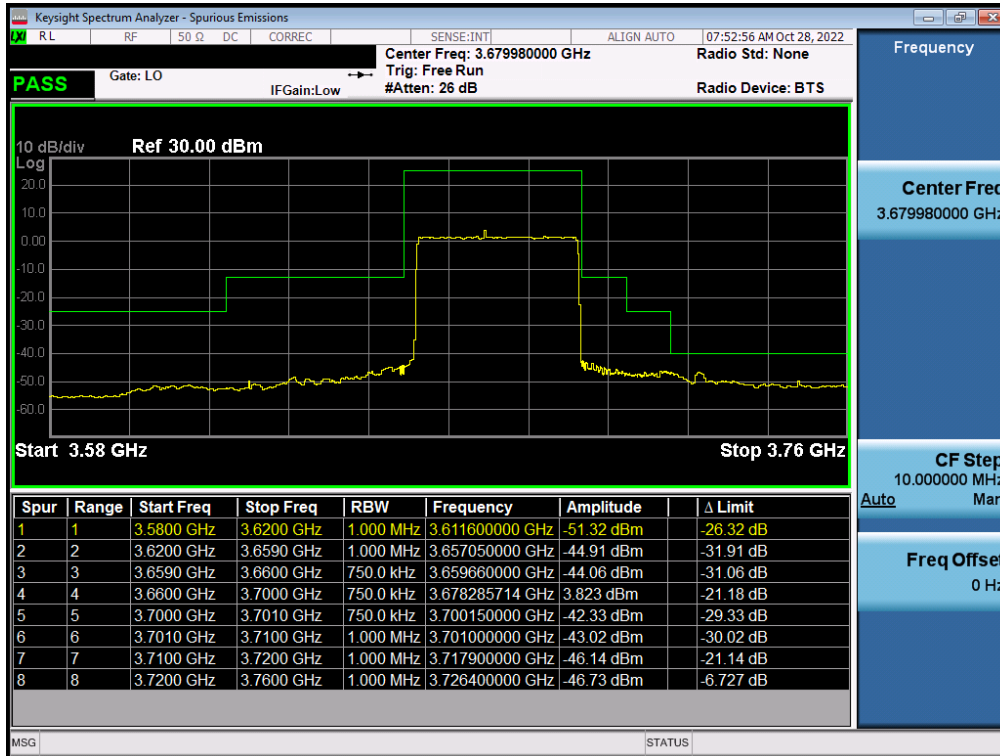


Plot 7-122. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant F)

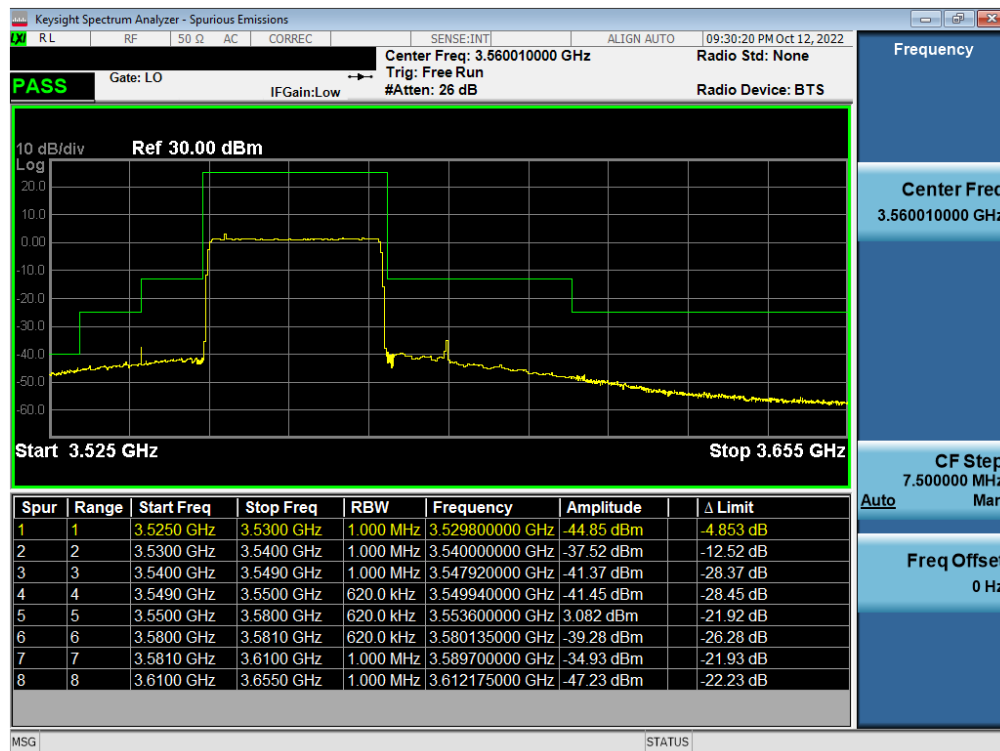


Plot 7-123. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant F)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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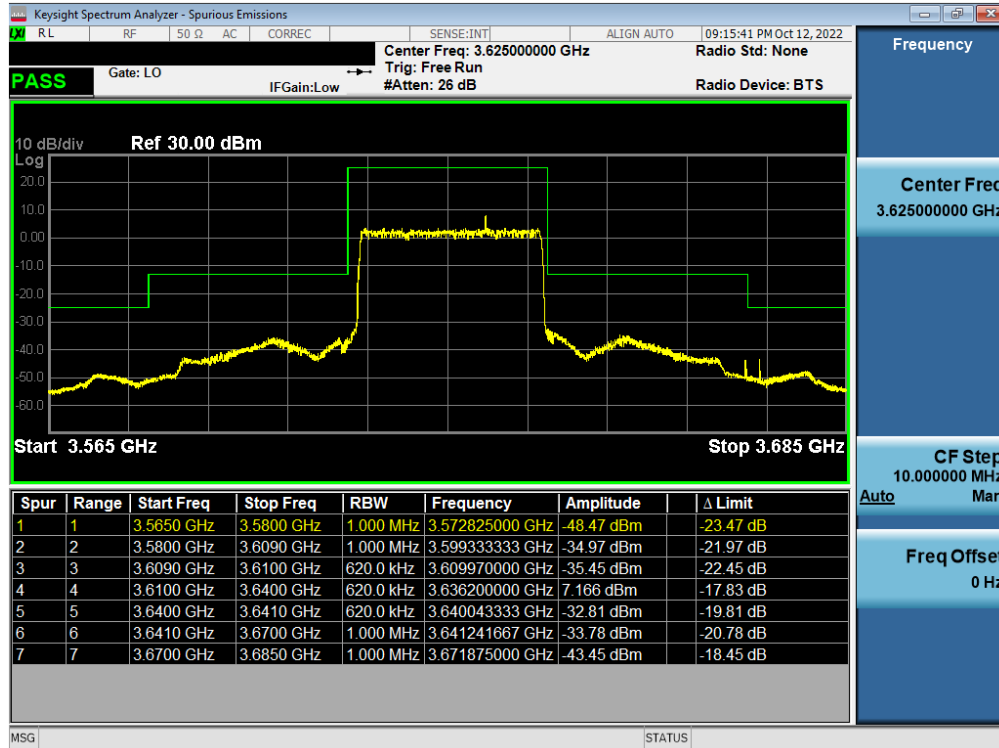


Plot 7-124. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant F)

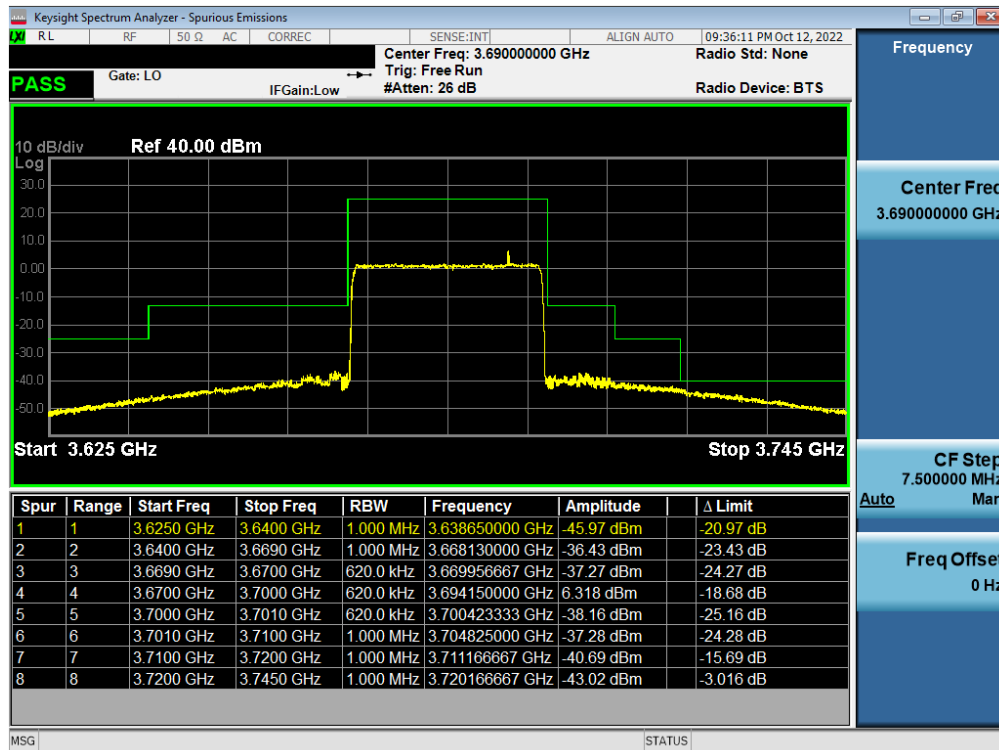


Plot 7-125. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Low Channel - Ant F)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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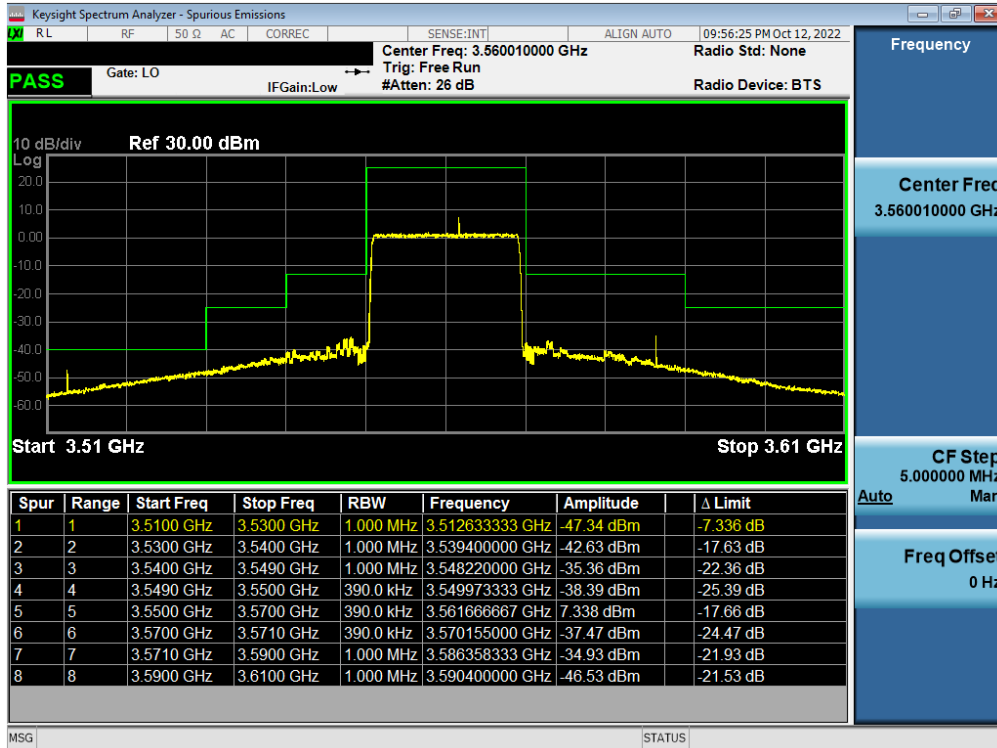


Plot 7-126. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Mid Channel - Ant F)

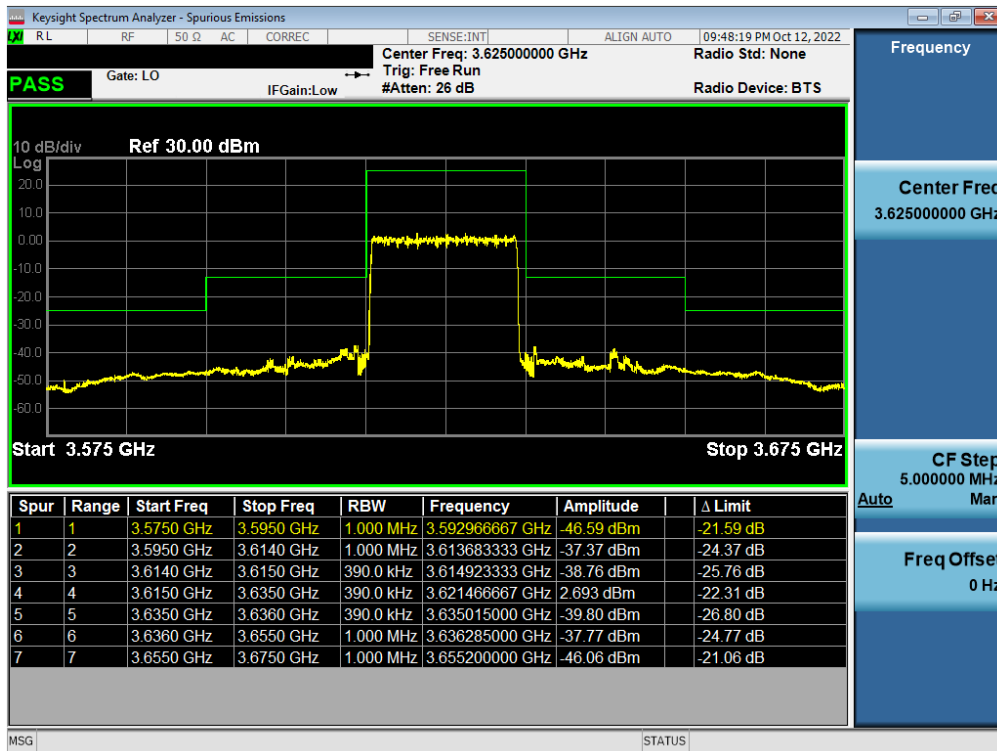


Plot 7-127. Channel Edge Plot (NR Band n48 - 30MHz QPSK - High Channel - Ant F)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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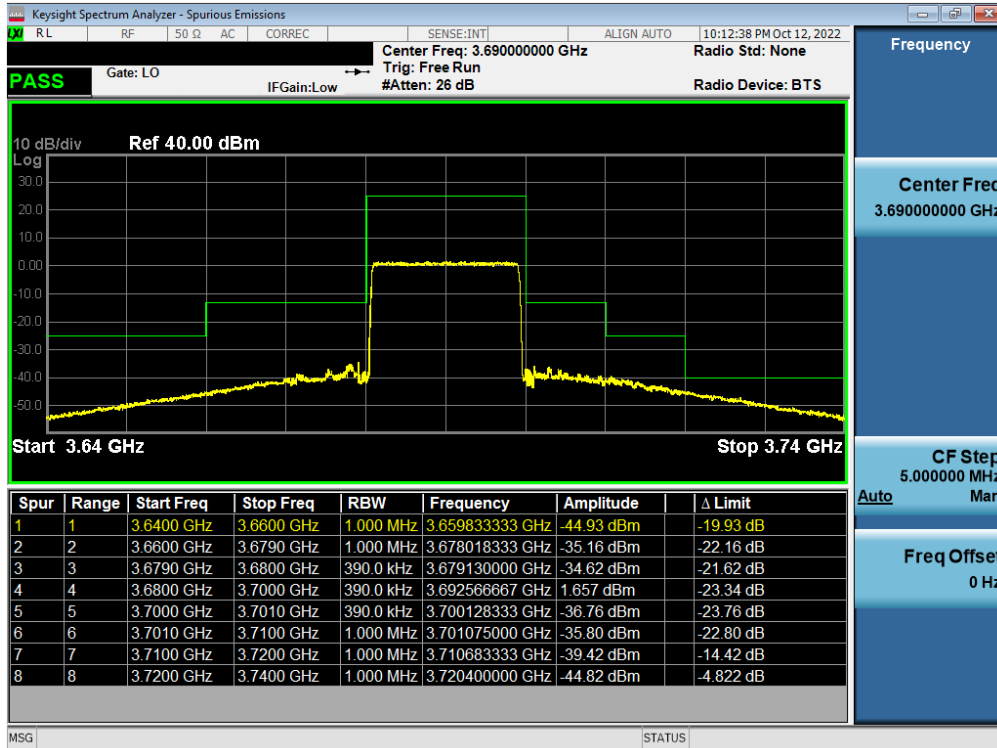


Plot 7-128. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Low Channel - Ant F)

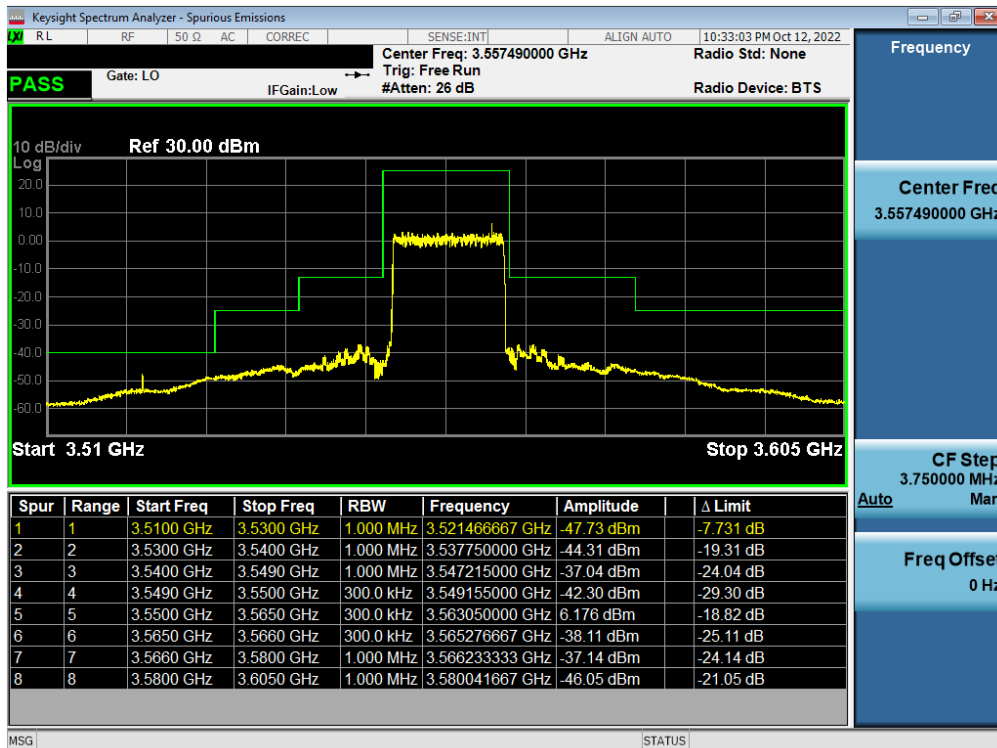


Plot 7-129. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Mid Channel - Ant F)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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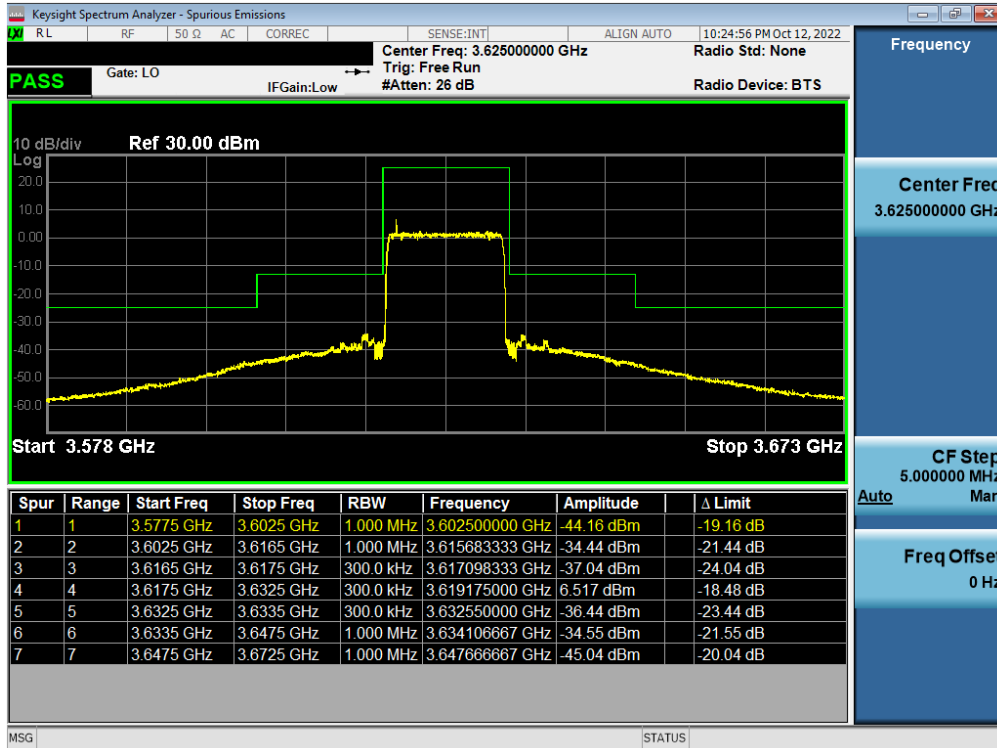


Plot 7-130. Channel Edge Plot (NR Band n48 - 20MHz QPSK - High Channel - Ant F)

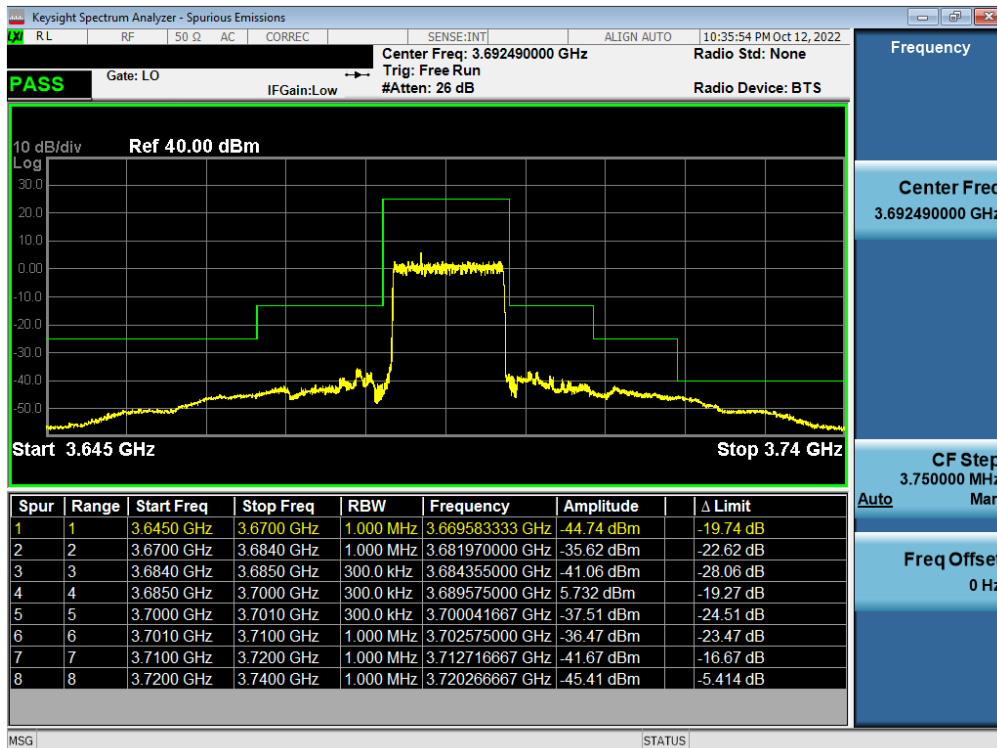


Plot 7-131. Channel Edge Plot (NR Band n48 - 15MHz QPSK - Low Channel - Ant F)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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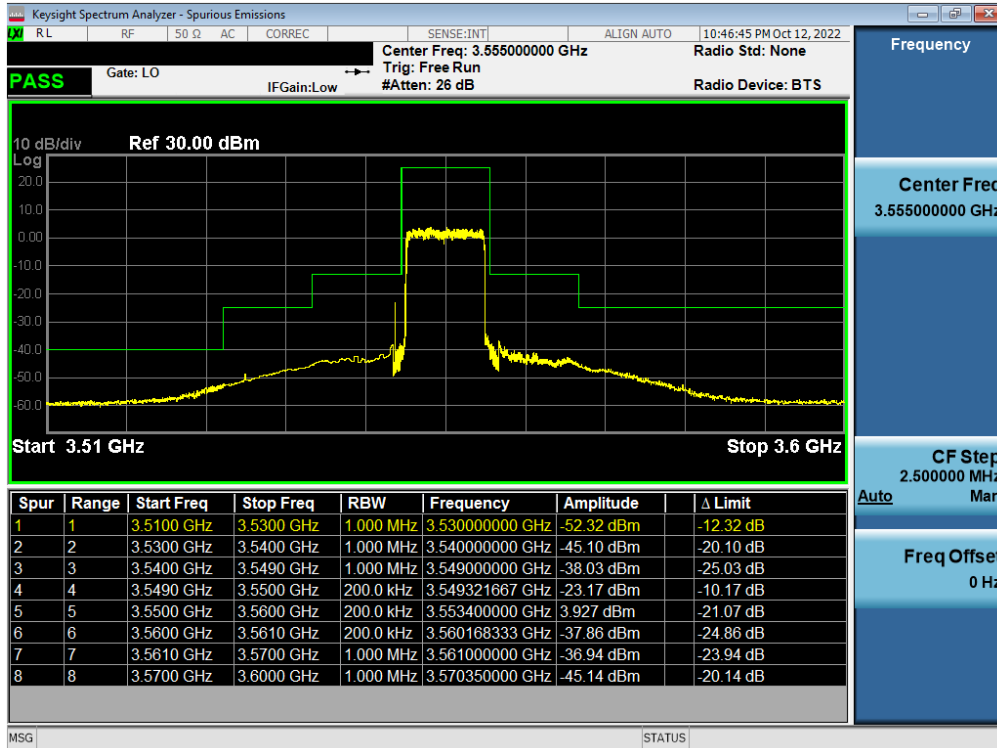


Plot 7-132. Channel Edge Plot (NR Band n48 - 15MHz QPSK - Mid Channel - Ant F)

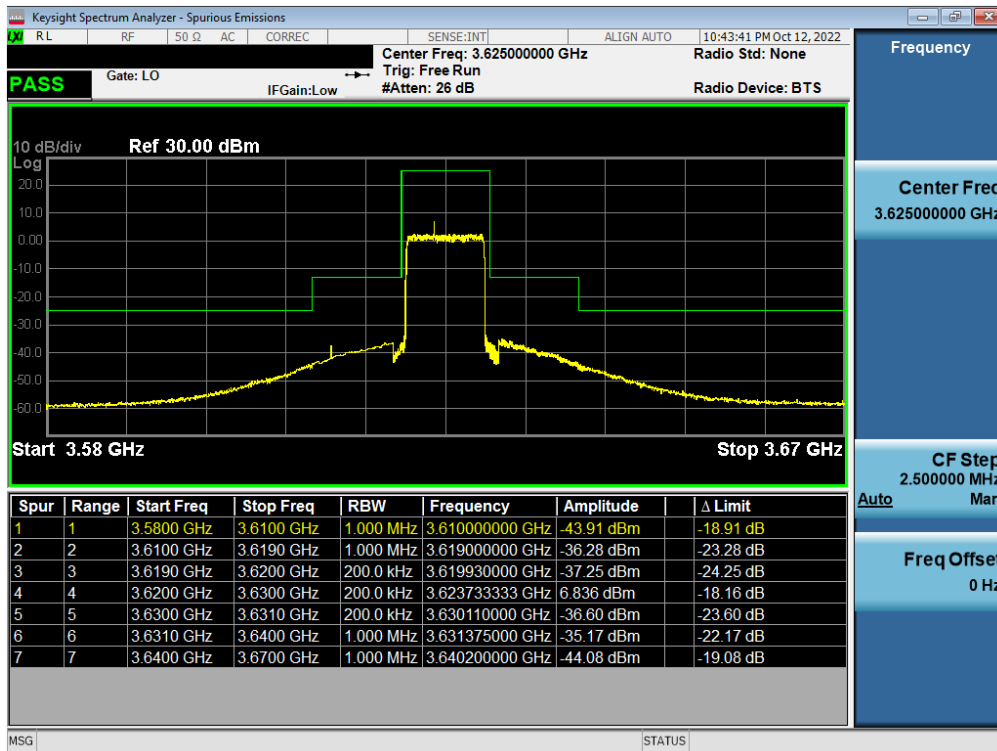


Plot 7-133. Channel Edge Plot (NR Band n48 - 15MHz QPSK - High Channel - Ant F)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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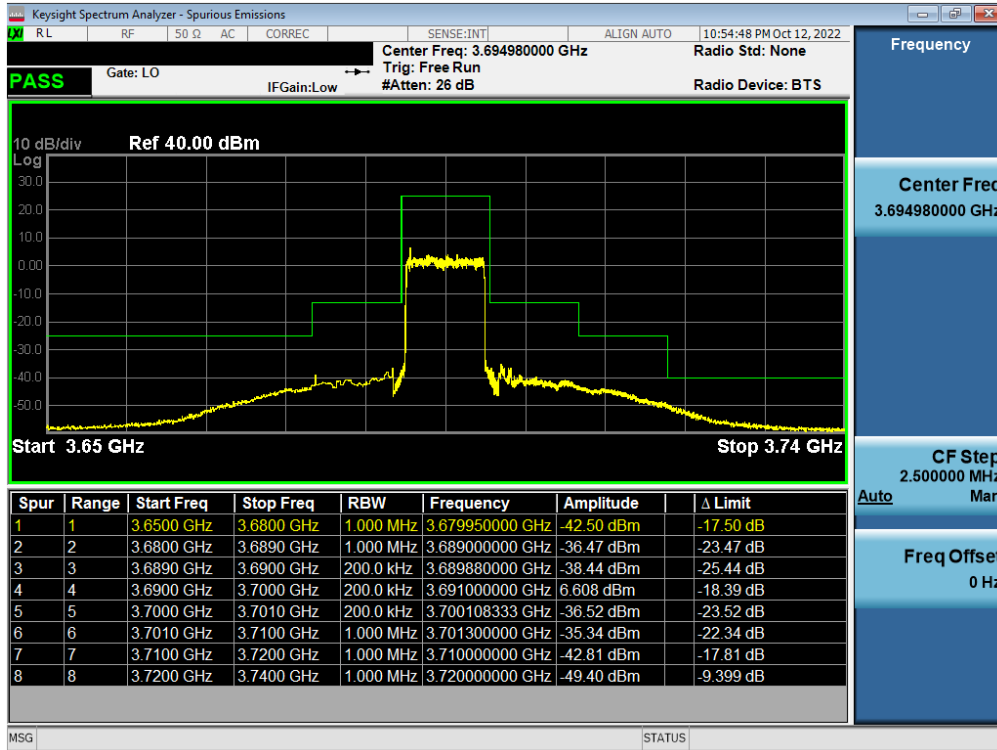


Plot 7-134. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Low Channel - Ant F)



Plot 7-135. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Mid Channel - Ant F)

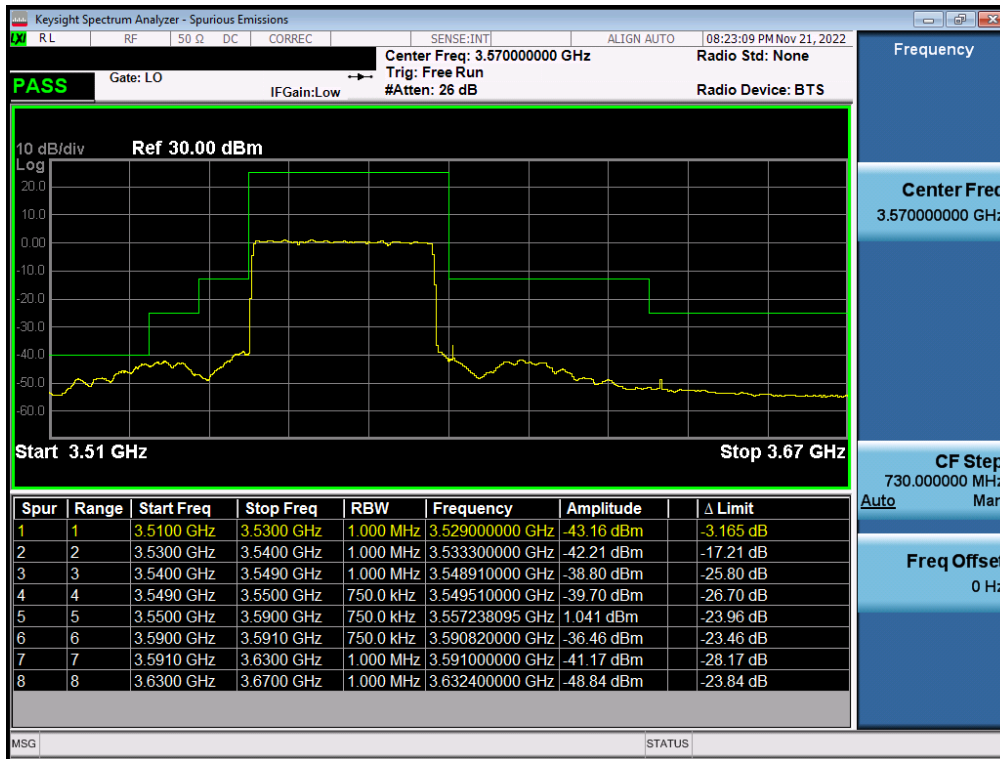
FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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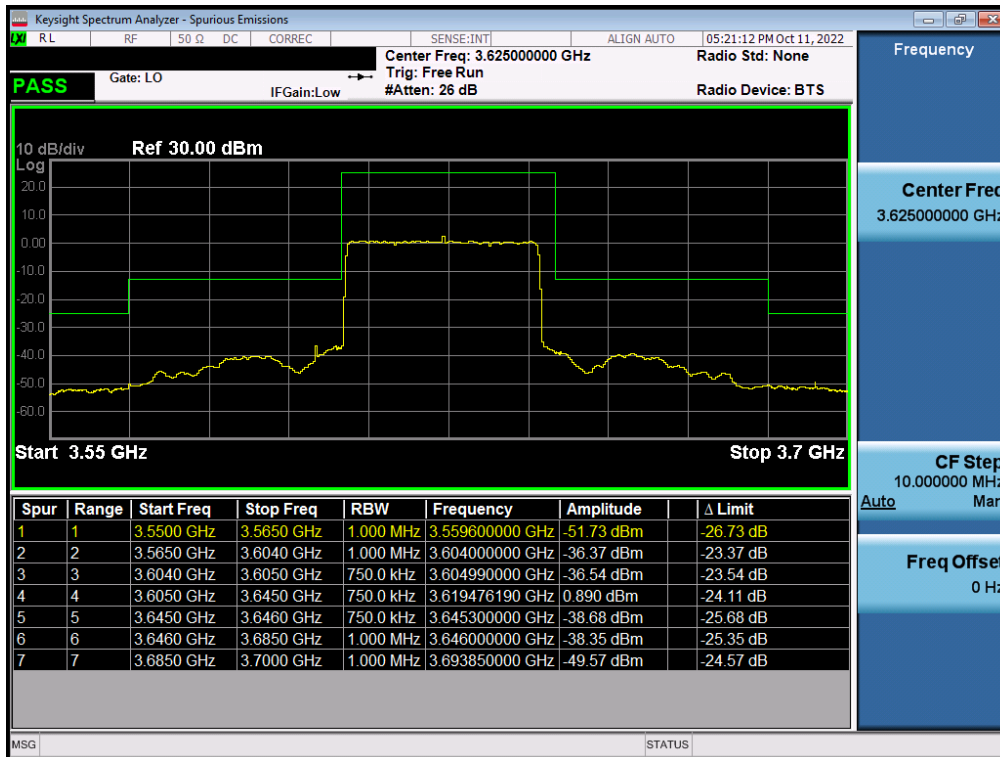
Plot 7-136. Channel Edge Plot (NR Band n48 - 10MHz QPSK - High Channel - Ant F)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant C

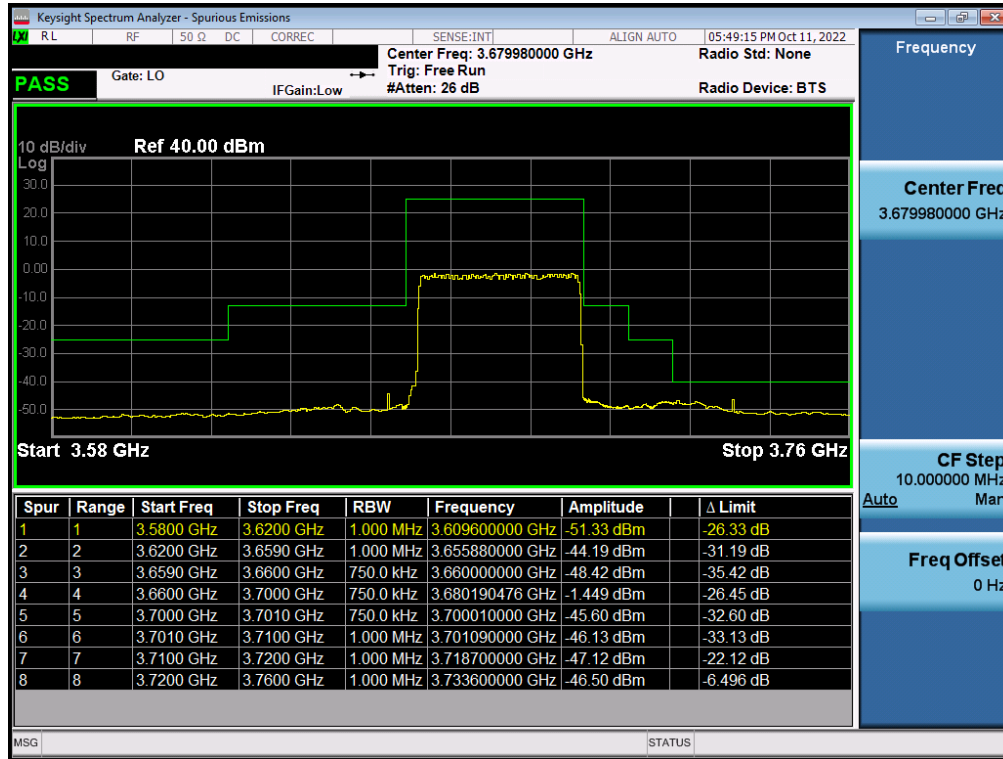


Plot 7-137. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant C)



Plot 7-138. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant C)

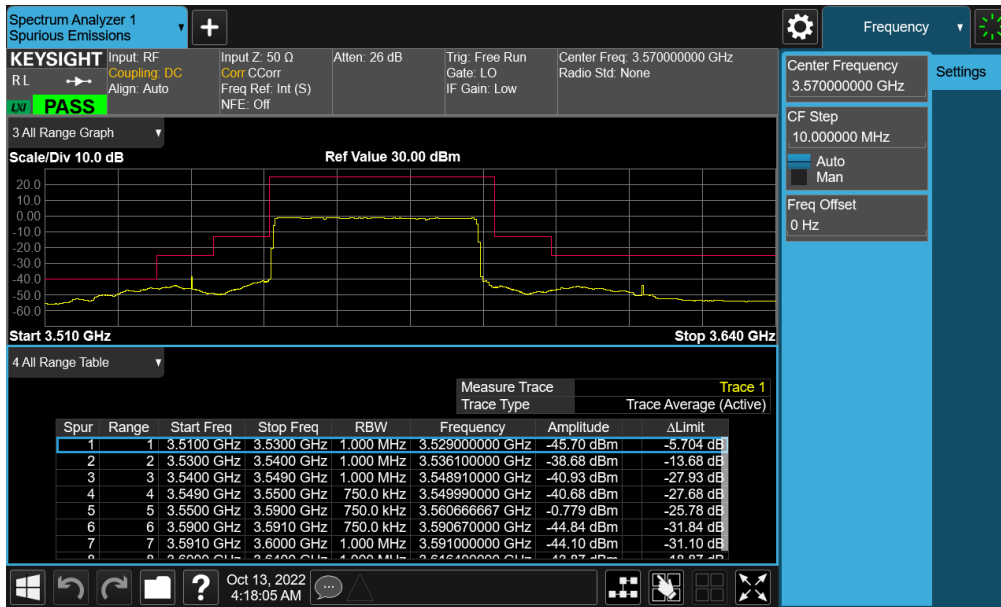
FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-07.A3L	Test Dates: 10/06/2022 - 11/21/2022	EUT Type: Portable Handset	Page 93 of 136



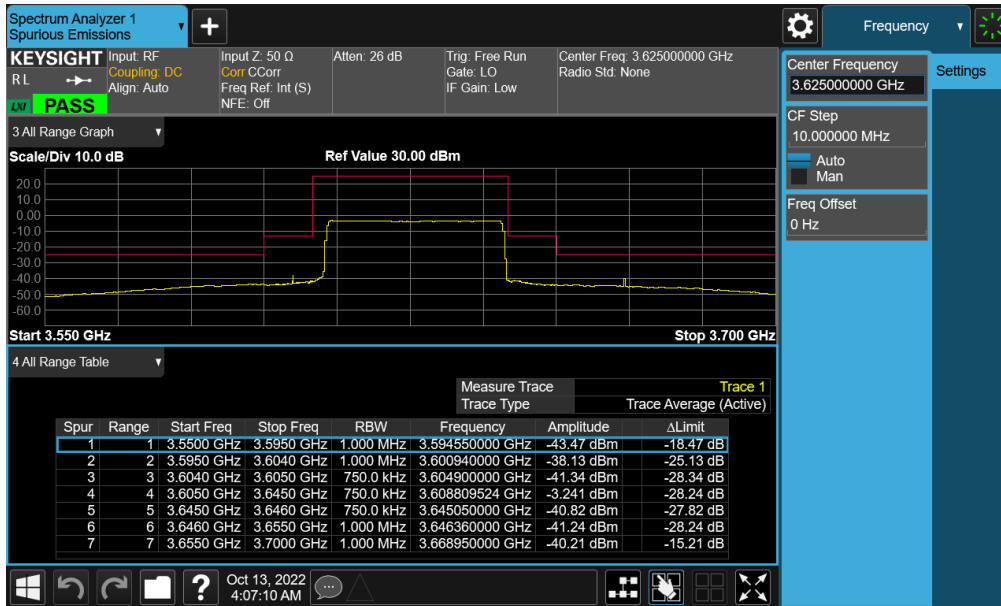
Plot 7-139. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant C)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant I

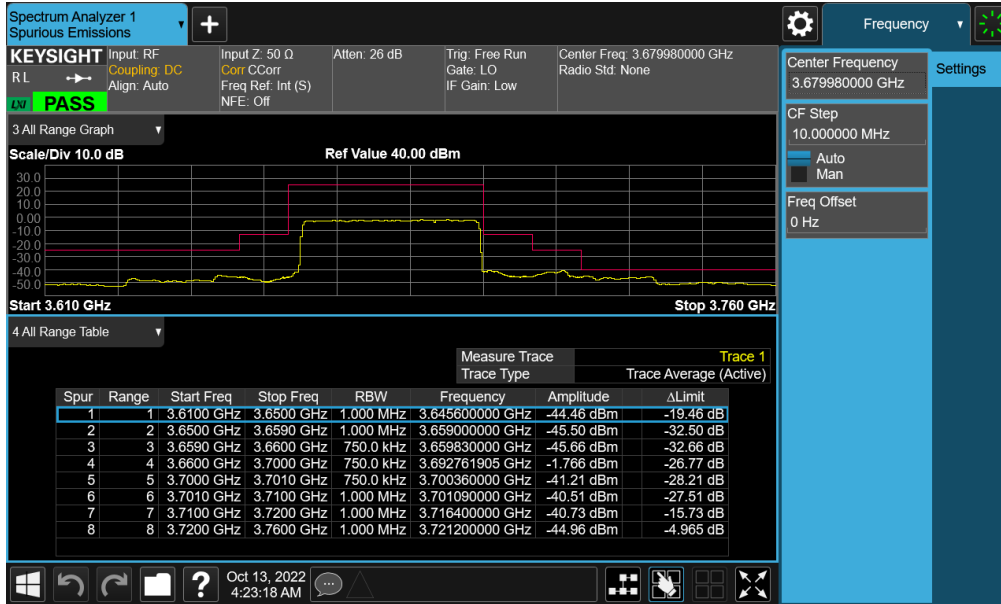


Plot 7-140. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant I)



Plot 7-141. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant I)

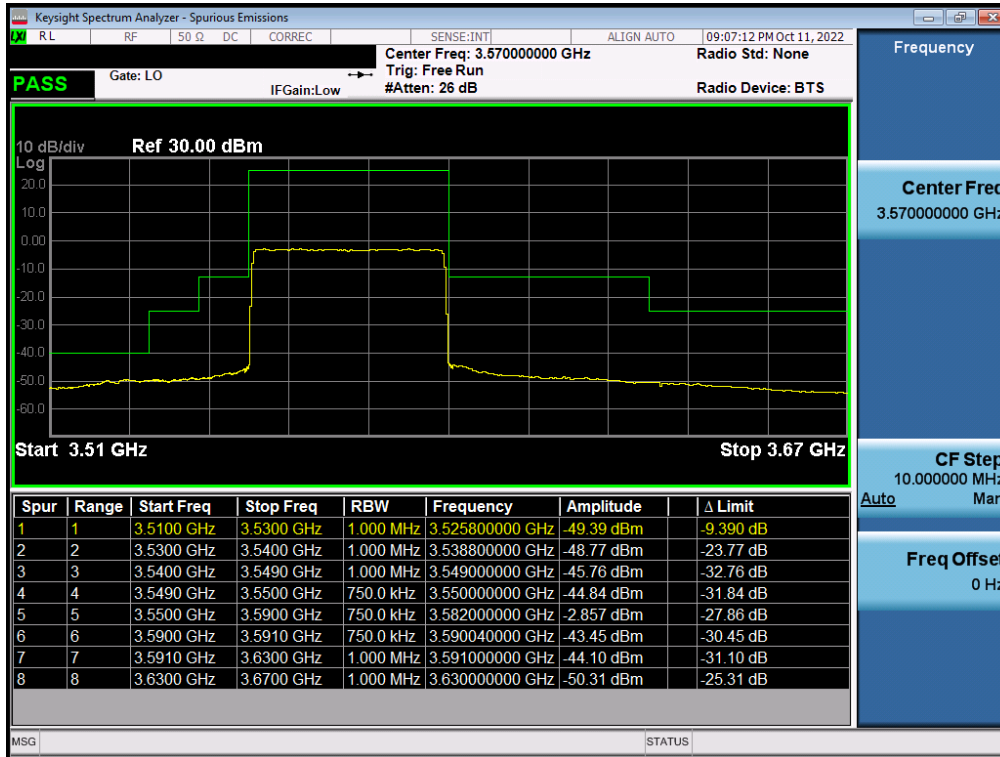
FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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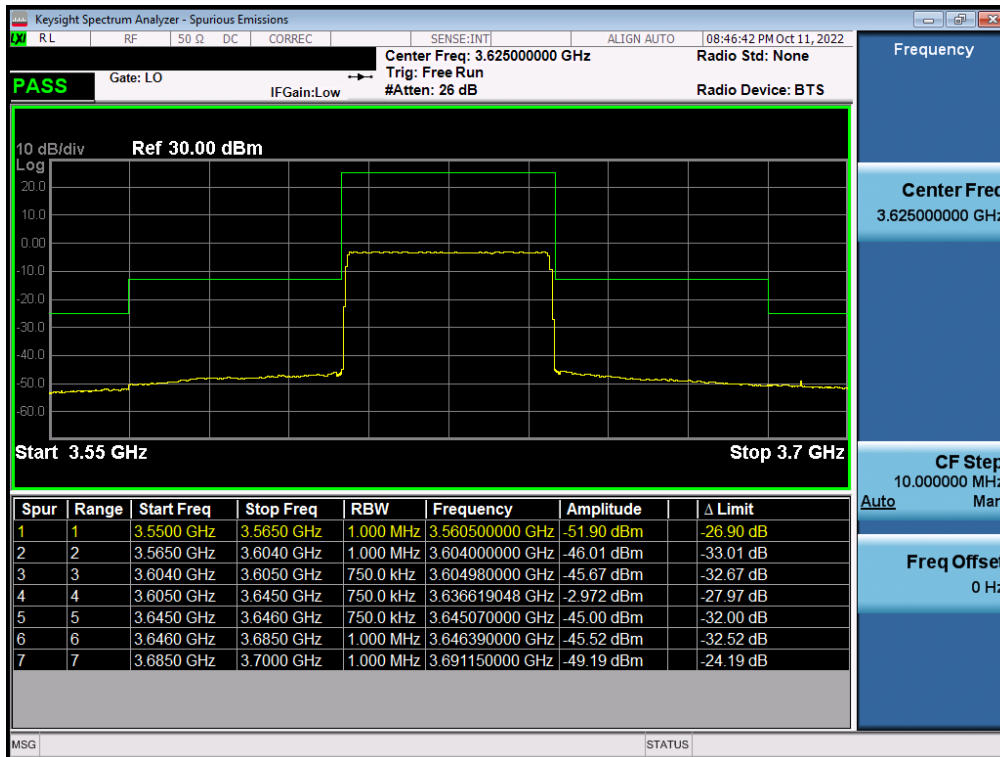
Plot 7-142. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant I)

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant D

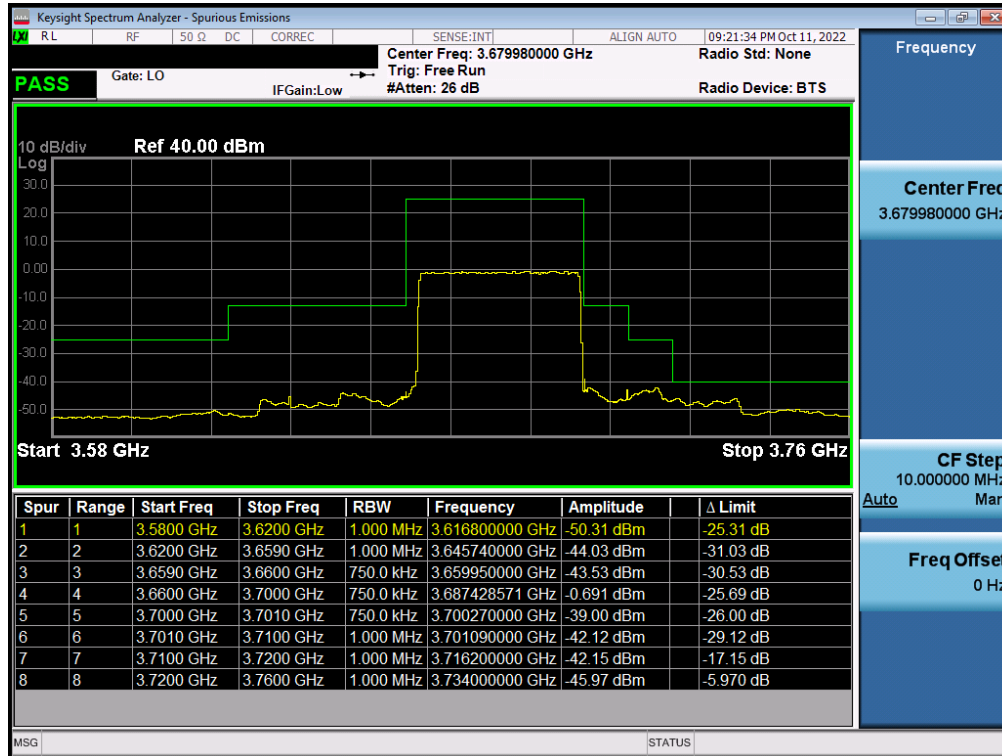


Plot 7-143. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)



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

FCC ID: A3LSMS911U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-145. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)

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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 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x 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.

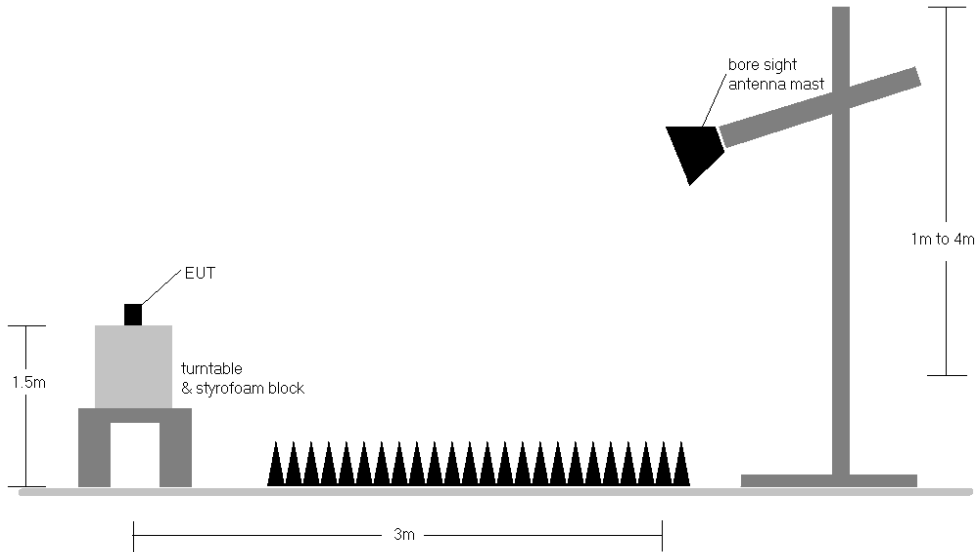


Figure 7-5. Radiated Test Setup >1GHz

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	231	339	7.37	1 / 50	13.07	20.44	0.111	23.00	-2.56
	QPSK	3625.00	H	195	342	6.77	1 / 50	13.97	20.74	0.119	23.00	-2.26
	QPSK	3690.00	H	234	331	6.15	1 / 50	13.41	19.56	0.090	23.00	-3.44
	16-QAM	3625.00	H	195	342	6.77	1 / 50	12.70	19.47	0.088	23.00	-3.53
15 MHz	QPSK	3557.50	H	231	339	7.40	1 / 74	12.48	19.88	0.097	23.00	-3.12
	QPSK	3625.00	H	195	342	6.77	1 / 37	13.98	20.75	0.119	23.00	-2.25
	QPSK	3692.50	H	234	331	6.12	1 / 37	13.52	19.63	0.092	23.00	-3.37
	16-QAM	3625.00	H	195	342	6.77	1 / 74	13.36	20.13	0.103	23.00	-2.87
10 MHz	QPSK	3555.00	H	231	339	7.43	1 / 25	12.51	19.94	0.099	23.00	-3.06
	QPSK	3625.00	H	195	342	6.77	1 / 25	14.14	20.91	0.123	23.00	-2.09
	QPSK	3695.00	H	234	331	6.09	1 / 25	13.62	19.71	0.094	23.00	-3.29
	16-QAM	3625.00	H	195	342	6.77	1 / 49	13.60	20.37	0.109	23.00	-2.63
5 MHz	QPSK	3552.50	H	231	339	7.45	1 / 12	12.59	20.05	0.101	23.00	-2.95
	QPSK	3625.00	H	195	342	6.77	1 / 12	14.08	20.85	0.122	23.00	-2.15
	QPSK	3697.50	H	234	331	6.06	1 / 12	13.81	19.87	0.097	23.00	-3.13
	16-QAM	3625.00	H	195	342	6.77	1 / 12	13.58	20.35	0.108	23.00	-2.65
20 MHz	QPSK (Opposite Pol.)	3625.00	V	115	35	6.91	1 / 50	12.69	19.60	0.091	23.00	-3.40
	QPSK (WCP)	3625.00	H	195	343	6.77	1 / 50	12.79	19.56	0.090	23.00	-3.44

Table 7-10. EIRP Data (LTE Band 48)

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	209	329	7.14	13.14	20.28	0.107	23.00	-2.72
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	191	343	6.83	13.65	20.48	0.112	23.00	-2.52
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	238	335	6.63	13.00	19.63	0.092	23.00	-3.37
	16-QAM	20	3560.0	1 / 99	20	3579.8	1 / 0	H	209	329	7.14	12.30	19.44	0.088	23.00	-3.56
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	191	343	6.83	12.84	19.67	0.093	23.00	-3.33
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	238	335	6.63	12.23	18.86	0.077	23.00	-4.14
35 MHz	QPSK	20	3557.5	1 / 99	15	3577.1	1 / 0	H	209	329	7.15	13.08	20.22	0.105	23.00	-2.78
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	191	343	6.84	13.59	20.43	0.110	23.00	-2.57
		20	3692.5	1 / 0	15	3672.9	1 / 74	H	238	335	6.62	13.00	19.62	0.092	23.00	-3.38
	16-QAM	20	3557.5	1 / 99	15	3577.1	1 / 0	H	209	329	7.15	12.26	19.40	0.087	23.00	-3.60
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	191	343	6.84	12.73	19.57	0.091	23.00	-3.43
		20	3692.5	1 / 0	15	3672.9	1 / 74	H	238	335	6.62	12.22	18.84	0.077	23.00	-4.16
30 MHz	QPSK	20	3555.0	1 / 99	10	3574.4	1 / 0	H	209	329	7.15	13.01	20.15	0.104	23.00	-2.85
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	191	343	6.85	13.51	20.36	0.109	23.00	-2.64
		20	3695.0	1 / 0	10	3678.3	1 / 49	H	238	335	6.61	13.10	19.71	0.094	23.00	-3.29
	16-QAM	20	3555.0	1 / 99	10	3574.4	1 / 0	H	209	329	7.15	12.35	19.49	0.089	23.00	-3.51
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	191	343	6.85	12.58	19.43	0.088	23.00	-3.57
		20	3695.0	1 / 0	10	3678.3	1 / 49	H	238	335	6.61	12.10	18.71	0.074	23.00	-4.29
25 MHz	QPSK	20	3552.5	1 / 99	5	3571.7	1 / 0	H	209	329	7.15	13.12	20.27	0.106	23.00	-2.73
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	191	343	6.86	13.63	20.49	0.112	23.00	-2.51
		20	3697.5	1 / 0	5	3678.3	1 / 24	H	238	335	6.61	12.83	19.44	0.088	23.00	-3.56
	16-QAM	20	3552.5	1 / 99	5	3571.7	1 / 0	H	209	329	7.15	12.22	19.37	0.087	23.00	-3.63
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	191	343	6.86	12.44	19.30	0.085	23.00	-3.70
		20	3697.5	1 / 0	5	3678.3	1 / 24	H	238	335	6.61	12.15	18.76	0.075	23.00	-4.24

Table 7-11. EIRP Data (ULCA Band 48)

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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	201	339	7.27	1 / 79	11.59	18.86	0.077	23.00	-4.14
	$\pi/2$ BPSK	3625.00	H	221	347	6.77	1 / 79	11.88	18.85	0.073	23.00	-4.35
	$\pi/2$ BPSK	3680.00	H	209	347	6.25	1 / 79	12.25	18.50	0.071	23.00	-4.50
	QPSK	3570.00	H	201	339	7.27	1 / 79	11.29	18.56	0.072	23.00	-4.44
	QPSK	3625.00	H	221	347	6.77	1 / 53	12.11	18.88	0.077	23.00	-4.12
	QPSK	3680.00	H	209	347	6.25	1 / 53	12.17	18.42	0.070	23.00	-4.58
30 MHz	16-QAM	3625.00	H	221	347	6.77	1 / 26	10.69	17.46	0.056	23.00	-5.54
	$\pi/2$ BPSK	3565.00	H	201	339	7.32	1 / 39	11.44	18.77	0.075	23.00	-4.23
	$\pi/2$ BPSK	3625.00	H	221	347	6.77	1 / 39	11.50	18.27	0.067	23.00	-4.73
	$\pi/2$ BPSK	3685.00	H	209	347	6.20	1 / 39	12.28	18.48	0.070	23.00	-4.52
	QPSK	3565.00	H	201	339	7.32	1 / 39	11.47	18.79	0.076	23.00	-4.21
	QPSK	3625.00	H	221	347	6.77	1 / 39	11.89	18.66	0.073	23.00	-4.34
20 MHz	QPSK	3685.00	H	209	347	6.20	1 / 39	12.50	18.70	0.074	23.00	-4.30
	16-QAM	3565.00	H	201	339	7.32	1 / 39	7.22	14.54	0.028	23.00	-8.46
	$\pi/2$ BPSK	3560.00	H	201	339	7.37	1 / 37	11.72	19.09	0.081	23.00	-3.91
	$\pi/2$ BPSK	3625.00	H	221	347	6.77	1 / 37	12.09	18.86	0.077	23.00	-4.14
	$\pi/2$ BPSK	3690.00	H	209	347	6.15	1 / 13	12.04	18.19	0.066	23.00	-4.81
	QPSK	3560.00	H	201	339	7.37	1 / 37	10.84	18.21	0.066	23.00	-4.79
15 MHz	QPSK	3625.00	H	221	347	6.77	1 / 37	12.42	19.19	0.083	23.00	-3.81
	QPSK	3690.00	H	209	347	6.15	1 / 13	11.57	17.71	0.059	23.00	-5.29
	16-QAM	3690.00	H	209	347	6.15	1 / 13	9.77	15.92	0.039	23.00	-7.07
	$\pi/2$ BPSK	3557.50	H	201	339	7.40	1 / 19	11.83	19.23	0.084	23.00	-3.78
	$\pi/2$ BPSK	3625.00	H	221	347	6.77	1 / 19	12.17	18.93	0.078	23.00	-4.07
	$\pi/2$ BPSK	3692.50	H	209	347	6.12	1 / 19	12.83	18.95	0.078	23.00	-4.05
10 MHz	QPSK	3557.50	H	201	339	7.40	1 / 19	10.92	18.32	0.068	23.00	-4.68
	QPSK	3625.00	H	221	347	6.77	1 / 19	11.66	18.43	0.070	23.00	-4.57
	QPSK	3692.50	H	209	347	6.12	1 / 19	11.97	18.09	0.064	23.00	-4.91
	16-QAM	3692.50	H	209	347	6.12	1 / 19	10.71	16.83	0.048	23.00	-6.17
	$\pi/2$ BPSK	3555.00	H	201	339	7.43	1 / 17	11.00	18.42	0.070	23.00	-4.58
	$\pi/2$ BPSK	3625.00	H	221	347	6.77	1 / 12	11.50	18.27	0.067	23.00	-4.73
40 MHz	$\pi/2$ BPSK	3695.00	H	209	347	6.09	1 / 17	12.92	19.01	0.080	23.00	-3.99
	QPSK	3555.00	H	201	339	7.43	1 / 17	10.25	17.68	0.059	23.00	-5.32
	QPSK	3625.00	H	221	347	6.77	1 / 12	11.64	18.41	0.069	23.00	-4.59
	QPSK	3695.00	H	209	347	6.09	1 / 17	11.76	17.85	0.061	23.00	-5.15
	16-QAM	3625.00	H	221	347	6.77	1 / 12	9.08	15.85	0.038	23.00	-7.15
	QPSK (CP-OFDM)	3625.00	H	221	340	6.77	1 / 79	10.38	17.15	0.052	23.00	-5.85
40 MHz	QPSK (Opposite Pol.)	3625.00	V	115	33	6.77	1 / 53	11.23	18.00	0.063	23.00	-5.00
	QPSK (WCP)	3625.00	H	153	329	6.77	1 / 53	8.43	15.20	0.033	23.00	-7.80

Table 7-12. 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	H	121	39	7.27	1 / 26	5.52	12.79	0.019	23.00	-10.21
	$\pi/2$ BPSK	3625.00	H	125	35	6.77	1 / 53	4.95	11.72	0.015	23.00	-11.28
	$\pi/2$ BPSK	3680.00	H	108	37	6.25	1 / 53	4.29	10.54	0.011	23.00	-12.46
	QPSK	3570.00	H	121	39	7.27	1 / 26	5.46	12.73	0.019	23.00	-10.27
	QPSK	3625.00	H	125	35	6.77	1 / 53	4.82	11.59	0.014	23.00	-11.41
	QPSK	3680.00	H	108	37	6.25	1 / 26	4.50	10.75	0.012	23.00	-12.25
40 MHz	16-QAM	3570.00	H	121	39	7.27	1 / 26	5.14	12.41	0.017	23.00	-10.59
	QPSK (CP-OFDM)	3570.00	H	123	39	7.27	1 / 26	4.38	11.65	0.015	23.00	-11.35
40 MHz	QPSK (Opposite Pol.)	3570.00	V	137	51	7.14	1 / 53	3.63	10.77	0.012	23.00	-12.23

Table 7-13. EIRP Data (NR Band n48 – 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	159	327	7.27	1 / 79	7.81	15.08	0.032	23.00	-7.92
	$\pi/2$ BPSK	3625.00	H	283	316	6.77	1 / 26	8.65	15.42	0.035	23.00	-7.58
	$\pi/2$ BPSK	3680.00	H	228	321	6.25	1 / 26	10.35	16.60	0.046	23.00	-6.40
	QPSK	3570.00	H	159	327	7.27	1 / 79	7.82	15.09	0.032	23.00	-7.91
	QPSK	3625.00	H	283	316	6.77	1 / 79	9.23	16.00	0.040	23.00	-7.00
	QPSK	3680.00	H	228	321	6.25	1 / 79	10.04	16.29	0.043	23.00	-6.71
40 MHz	16-QAM	3680.00	H	228	321	6.25	1 / 53	9.50	15.75	0.038	23.00	-7.25
	QPSK (CP-OFDM)	3680.00	H	228	321	6.25	1 / 26	9.39	15.64	0.037	23.00	-7.36
	QPSK (Opposite Pol.)	3680.00	V	392	6	6.77	1 / 53	6.78	13.55	0.023	23.00	-9.45

Table 7-14. EIRP Data (NR Band n48 – Ant I)

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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	V	146	335	7.14	1 / 26	3.90	11.04	0.013	23.00	-11.96
	$\pi/2$ BPSK	3625.00	V	120	337	6.91	1 / 53	3.26	10.17	0.010	23.00	-12.83
	$\pi/2$ BPSK	3680.00	V	113	339	6.63	1 / 26	3.12	9.75	0.009	23.00	-13.25
	QPSK	3570.00	V	146	335	7.14	1 / 26	3.97	11.11	0.013	23.00	-11.89
	QPSK	3625.00	V	120	337	6.91	1 / 26	3.25	10.16	0.010	23.00	-12.84
	QPSK	3680.00	V	113	339	6.63	1 / 26	3.04	9.67	0.009	23.00	-13.33
	16-QAM	3570.00	V	146	335	7.14	1 / 26	3.30	10.44	0.011	23.00	-12.56
	16-QAM	3625.00	V	120	337	6.91	1 / 53	3.38	10.29	0.011	23.00	-12.71
	16-QAM	3680.00	V	113	339	6.63	1 / 26	2.95	9.58	0.009	23.00	-13.42
40 MHz	QPSK (CP-OFDM)	3570.00	V	149	343	7.14	1 / 26	3.58	10.72	0.012	23.00	-12.28
	QPSK (Opposite Pol.)	3570.00	H	113	29	7.27	1 / 26	3.12	10.39	0.011	23.00	-12.61

Table 7-15. EIRP Data (NR Band n48 – Ant D)

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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.

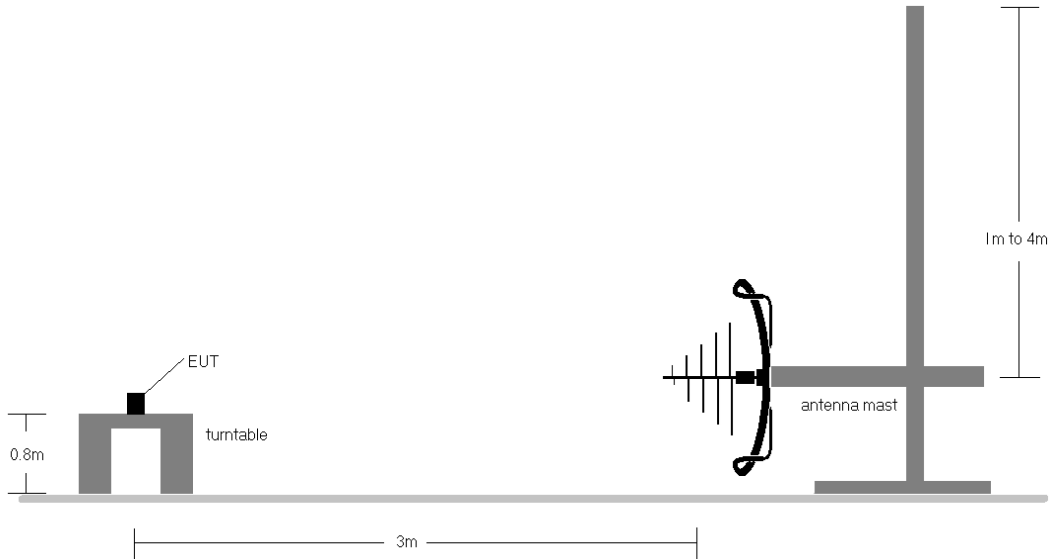


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

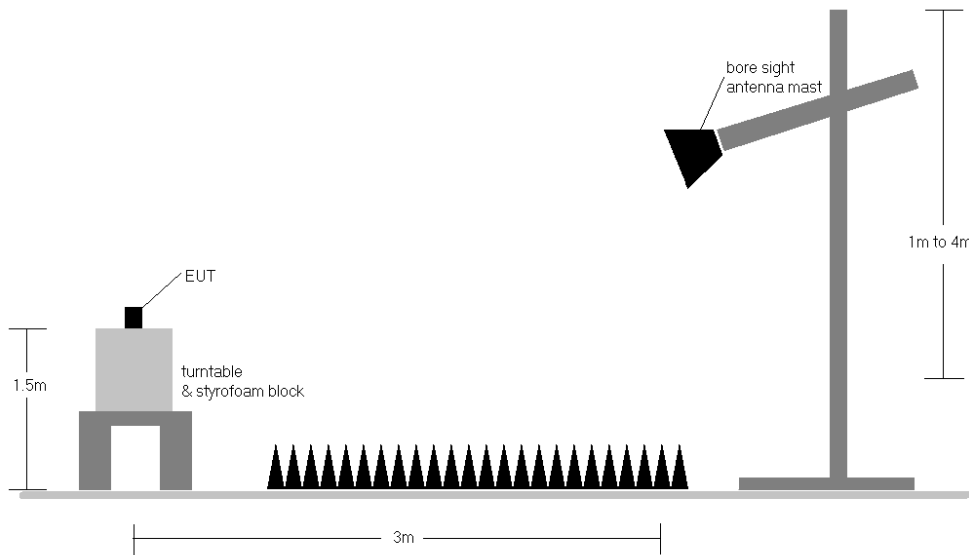


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

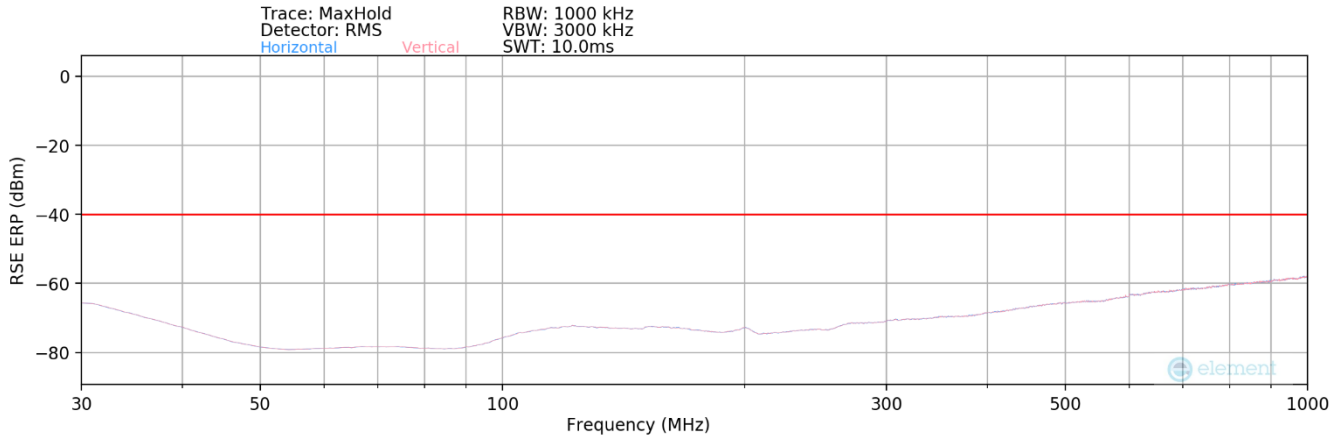
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Test Notes

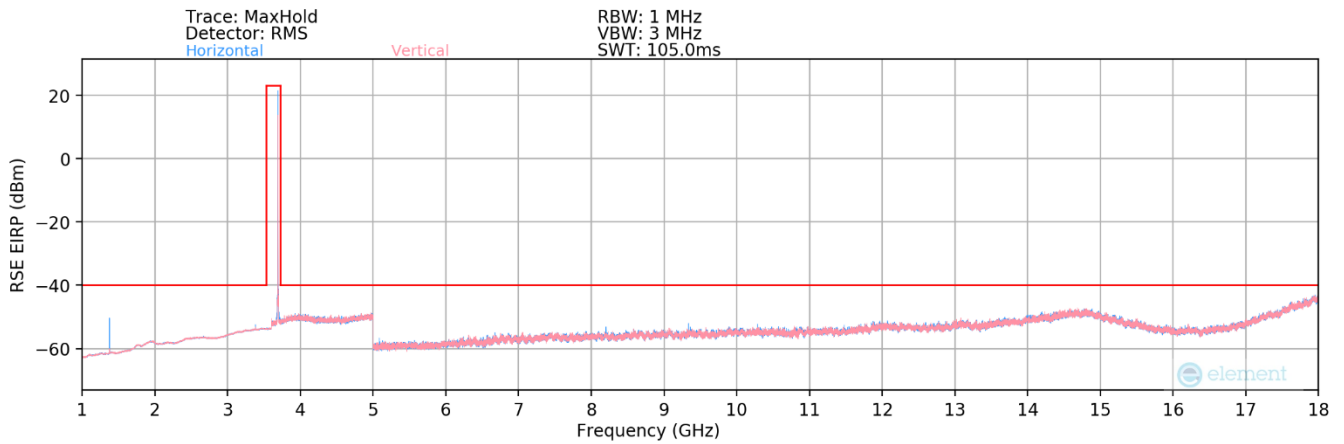
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m})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

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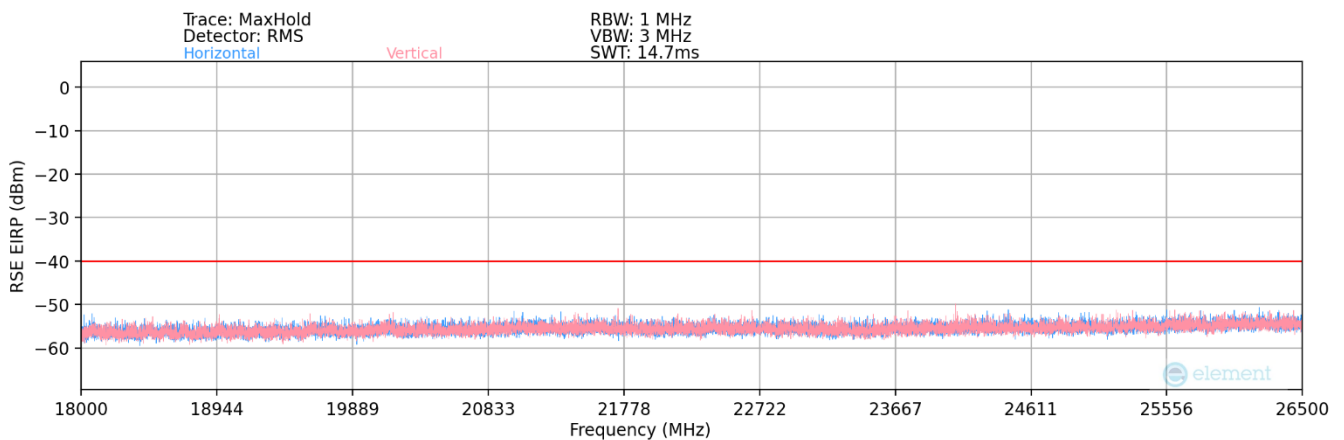
LTE Band 48 – Ant F



Plot 7-146. Radiated Spurious Plot 30MHz - 1GHz (LTE Band 48 – Ant F)

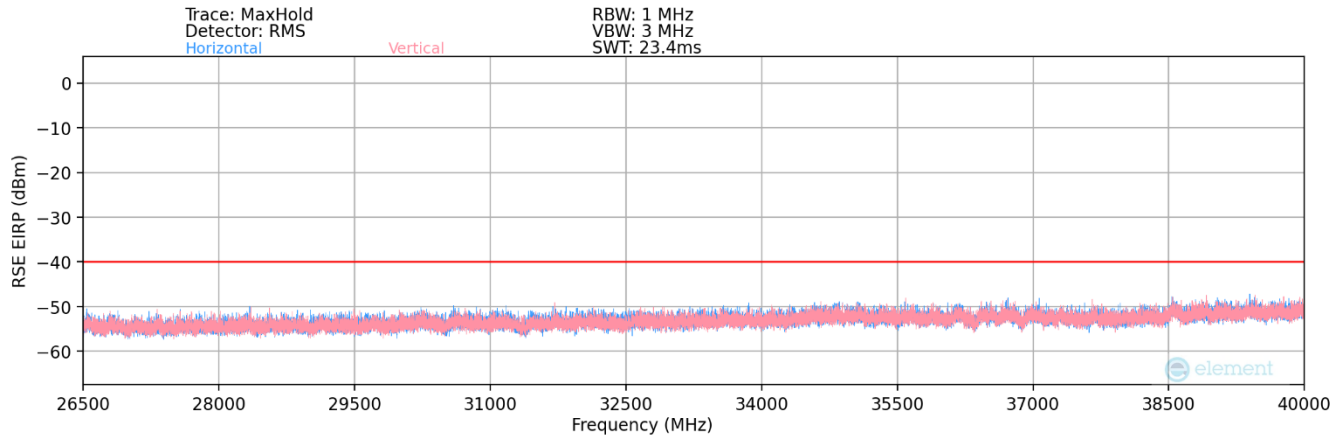


Plot 7-147. Radiated Spurious Plot (LTE Band 48 – Ant F)



Plot 7-148. Radiated Spurious Plot (LTE Band 48 – Ant F)

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Plot 7-149. Radiated Spurious Plot (LTE Band 48 – Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
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]
116.58	H	-	-	-82.88	19.99	44.11	-53.30	-40.00	-13.30
284.21	H	-	-	-81.87	20.71	45.84	-51.57	-40.00	-11.57
483.81	H	-	-	-82.41	25.35	49.94	-47.47	-40.00	-7.47

Table 7-16. Radiated Spurious Data (LTE Band 48 - Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
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	212	19	-63.24	4.24	48.00	-47.26	-40.00	-7.26
10680.00	H	276	64	-71.22	7.93	43.71	-51.55	-40.00	-11.55
14240.00	H	-	-	-76.24	12.65	43.41	-51.85	-40.00	-11.85
17800.00	H	-	-	-74.57	16.07	48.50	-46.76	-40.00	-6.76
21360.00	H	-	-	-55.64	3.81	55.17	-49.63	-40.00	-9.63

Table 7-17. Radiated Spurious Data (LTE Band 48 – Low Channel - Ant F)

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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	H	335	46	-71.02	3.95	39.93	-55.32	-40.00	-15.32
10875.00	H	310	69	-75.52	8.62	40.10	-55.16	-40.00	-15.16
14500.00	H	-	-	-76.27	13.66	44.39	-50.87	-40.00	-10.87
18125.00	H	-	-	-54.17	1.42	54.25	-50.55	-40.00	-10.55
21750.00	H	-	-	-54.90	3.83	55.93	-48.87	-40.00	-8.87

Table 7-18. Radiated Spurious Data (LTE Band 48 – Mid Channel - Ant F)

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	H	220	71	-67.06	4.52	44.46	-50.80	-40.00	-10.80
11070.00	H	169	131	-75.27	8.63	40.36	-54.89	-40.00	-14.89
14760.00	H	-	-	-76.72	13.94	44.22	-51.03	-40.00	-11.03
18450.00	H	-	-	-54.61	1.74	54.13	-50.67	-40.00	-10.67
22140.00	H	-	-	-55.23	3.71	55.48	-49.32	-40.00	-9.32

Table 7-19. Radiated Spurious Data (LTE Band 48 – High Channel - Ant F)

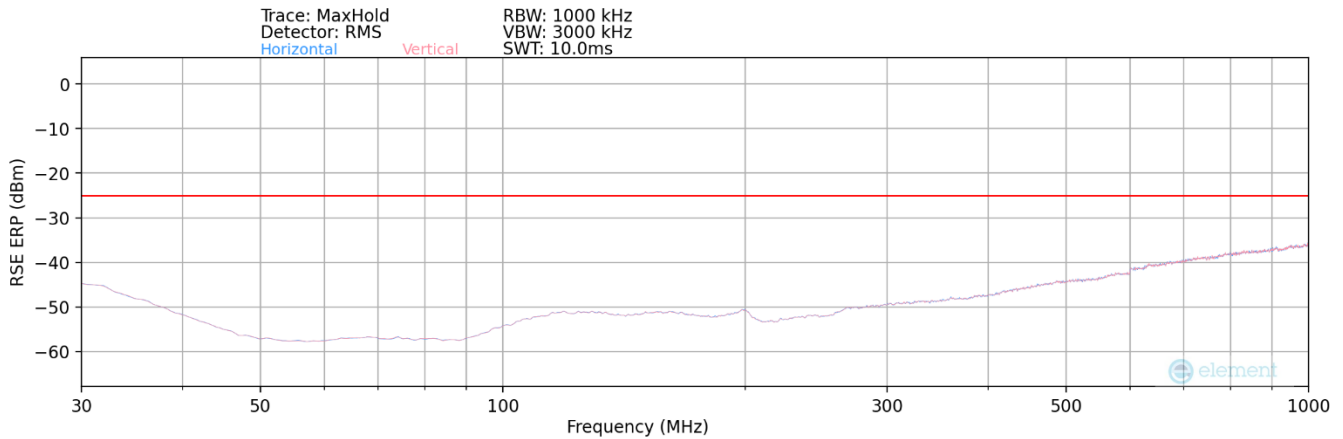
Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

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	177	82	-72.09	8.09	43.00	-52.26	-40.00	-12.26
10680.00	H	153	363	-76.60	12.21	42.61	-52.65	-40.00	-12.65
14240.00	H	-	-	-79.47	14.87	42.40	-52.86	-40.00	-12.86
17800.00	H	-	-	-79.65	17.58	44.93	-50.32	-40.00	-10.32

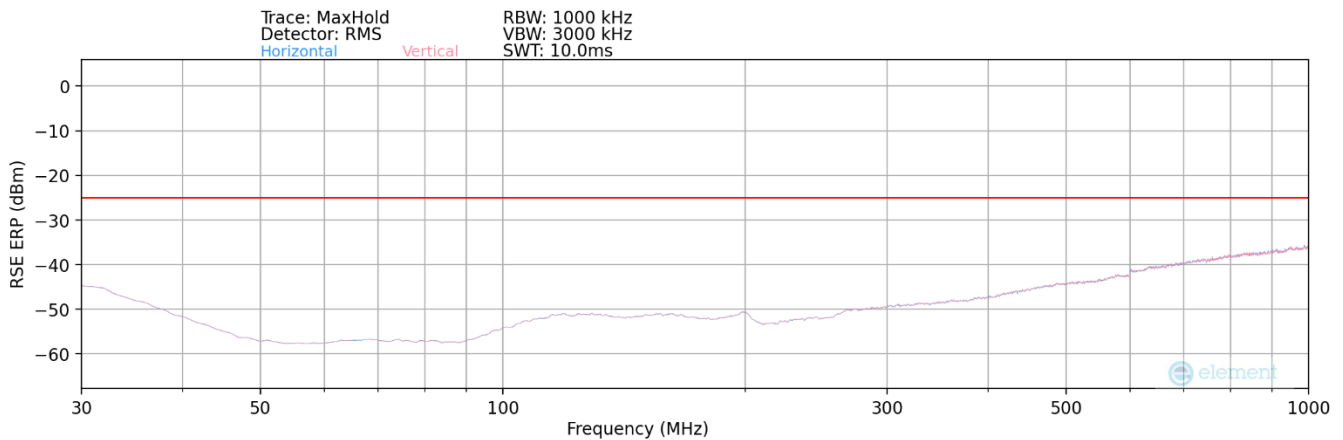
Table 7-20. Radiated Spurious Data with WCP (LTE Band 48)

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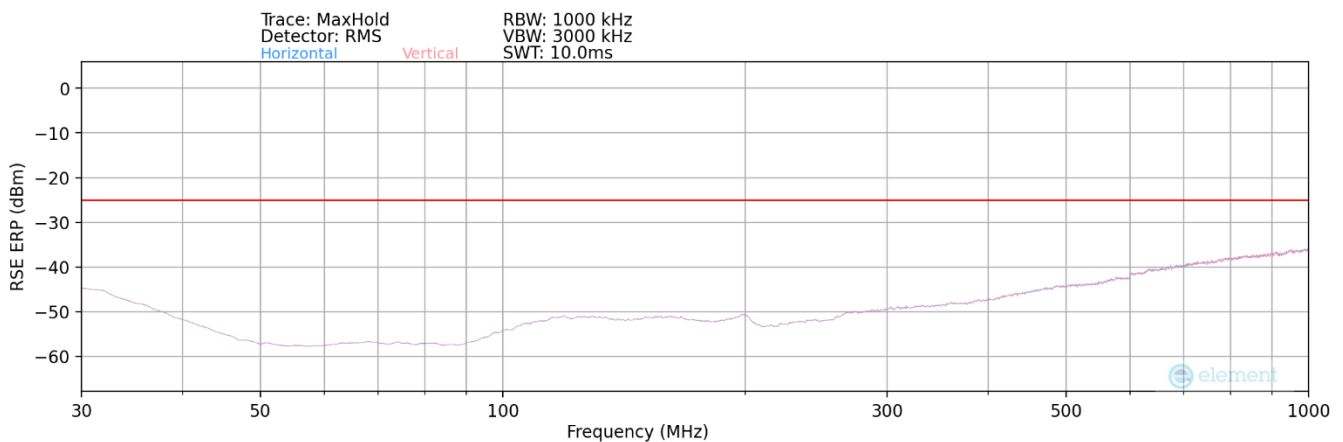
ULCA LB48



Plot 7-150. Radiated Spurious Plot – 30MHz-1GHz (ULCA LB48 – Low Channel)

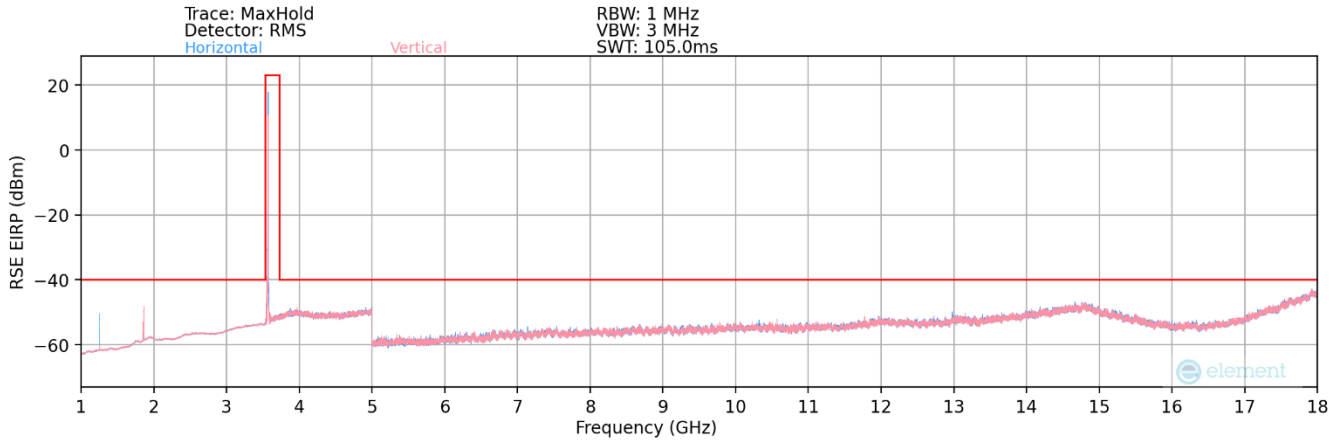


Plot 7-151. Radiated Spurious Plot – 30MHz-1GHz (ULCA LB48 – Mid Channel)

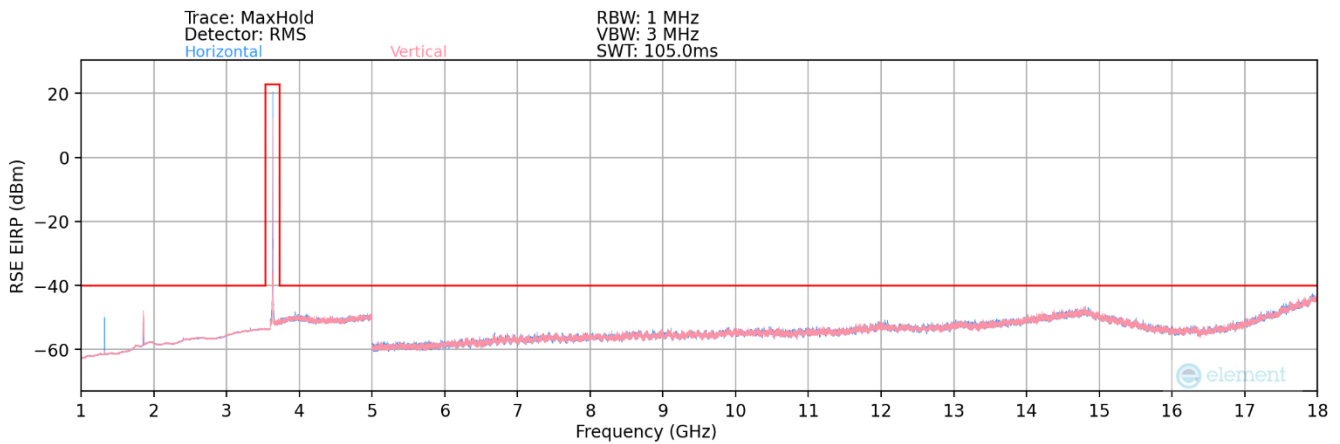


Plot 7-152. Radiated Spurious Plot – 30MHz-1GHz (ULCA LB48 – High Channel)

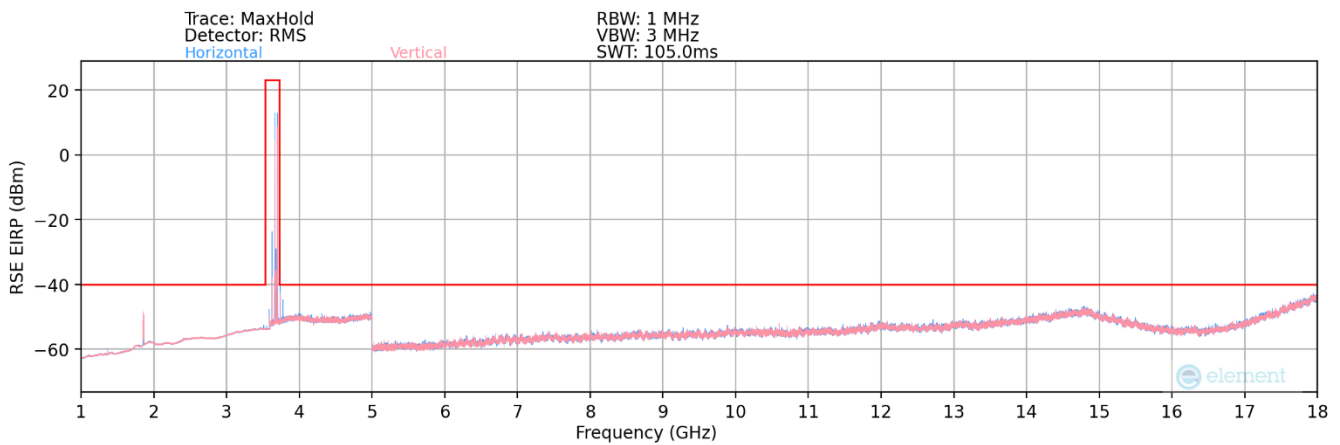
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Plot 7-153. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Low Channel)



Plot 7-154. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Mid Channel)



Plot 7-155. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – High Channel)

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