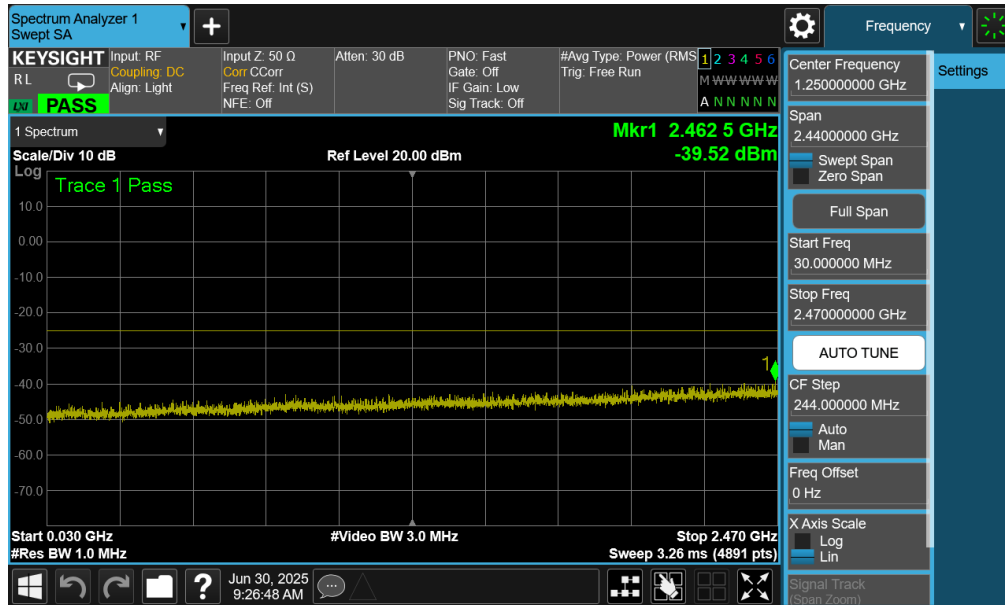
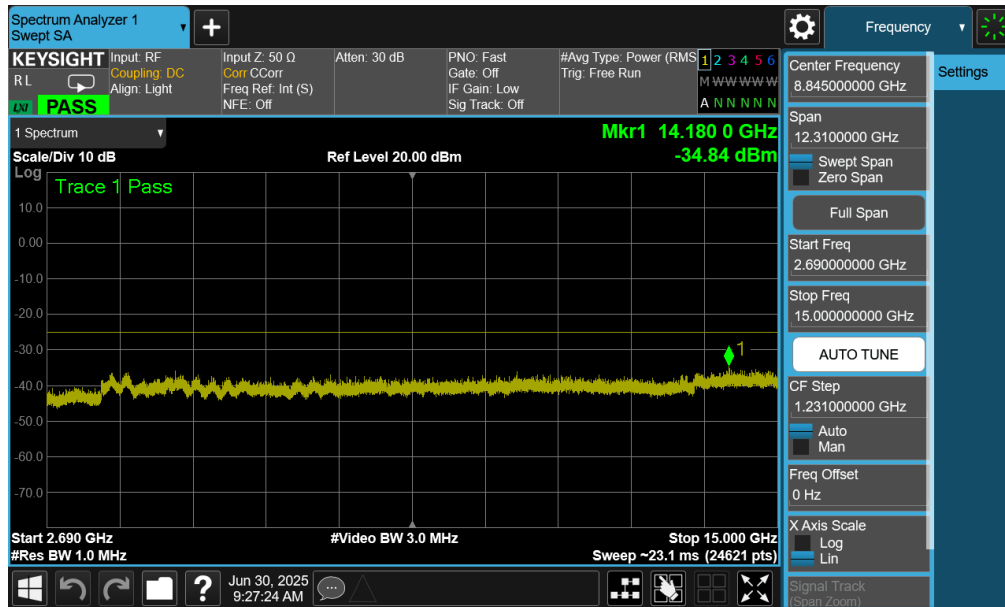


NR Band n41 PC3 – Ant3

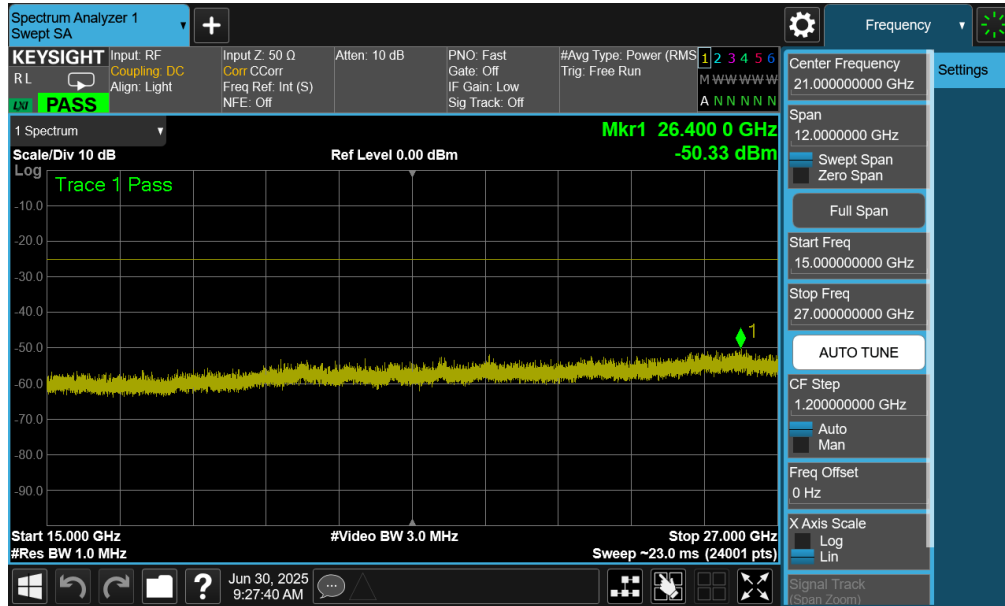


Plot 7-100. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant3)

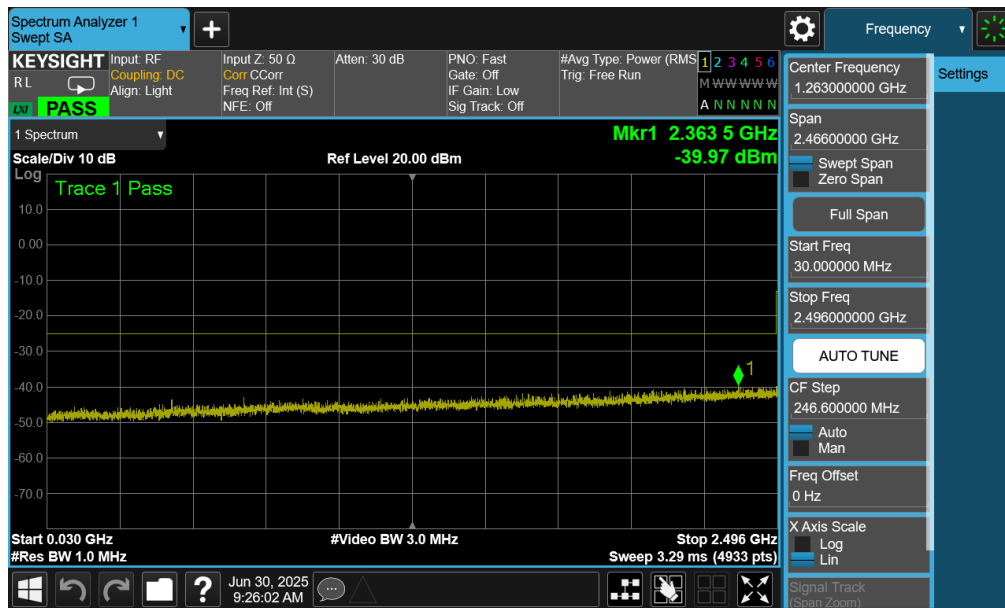


Plot 7-101. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant3)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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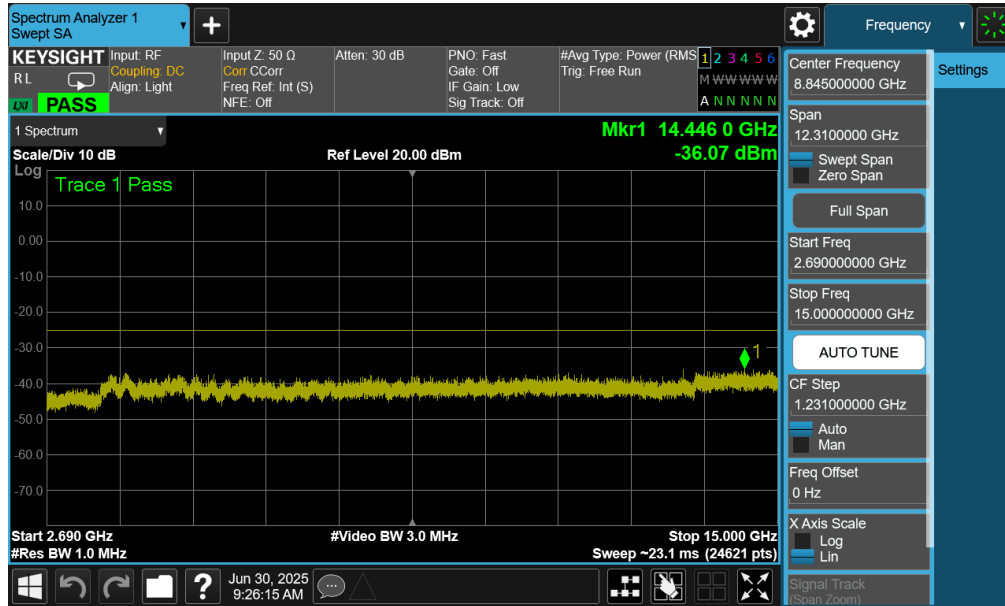


Plot 7-102. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant3)

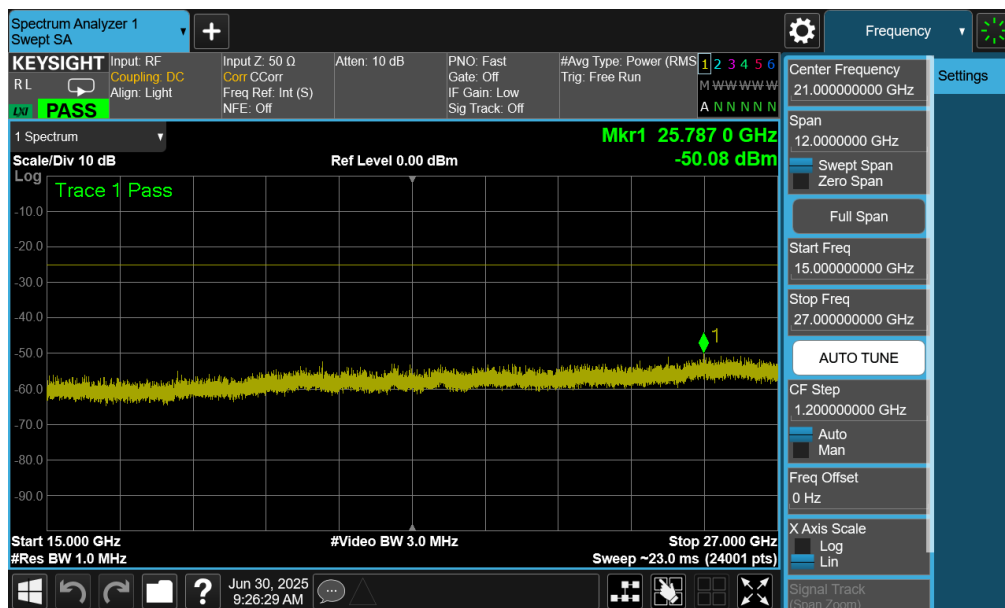


Plot 7-103. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant3)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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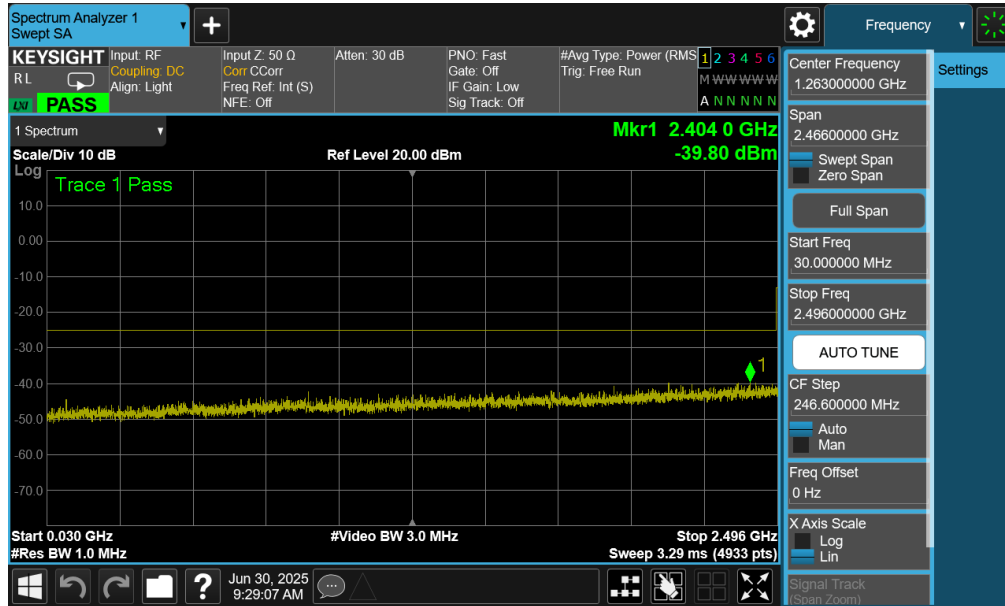


Plot 7-104. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant3)

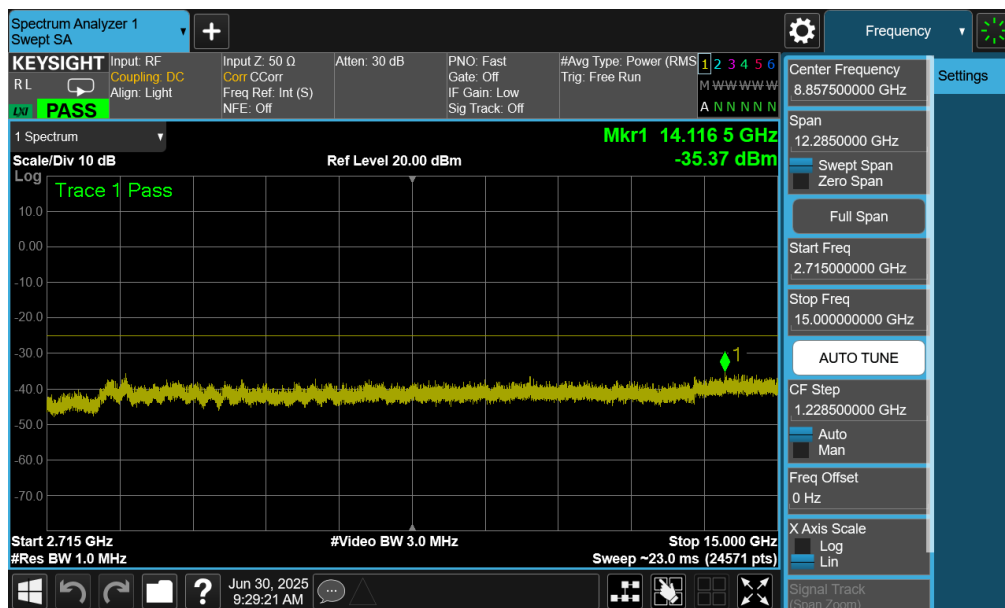


Plot 7-105. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant3)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-04.A3L	Test Dates: 6/3/2025 - 7/18/2025	EUT Type: Portable Tablet	Page 72 of 127

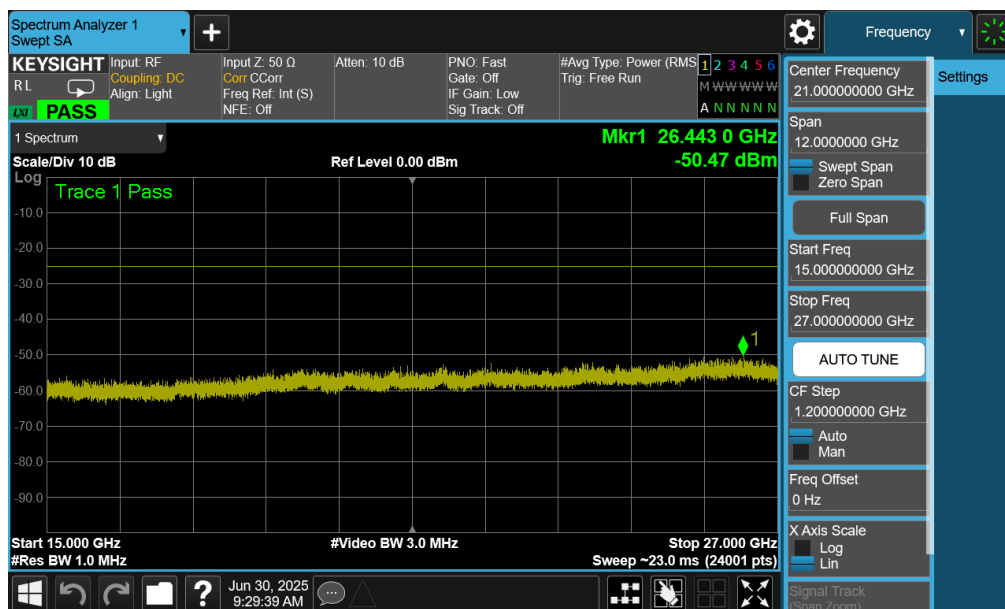


Plot 7-106. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant3)



Plot 7-107. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant3)

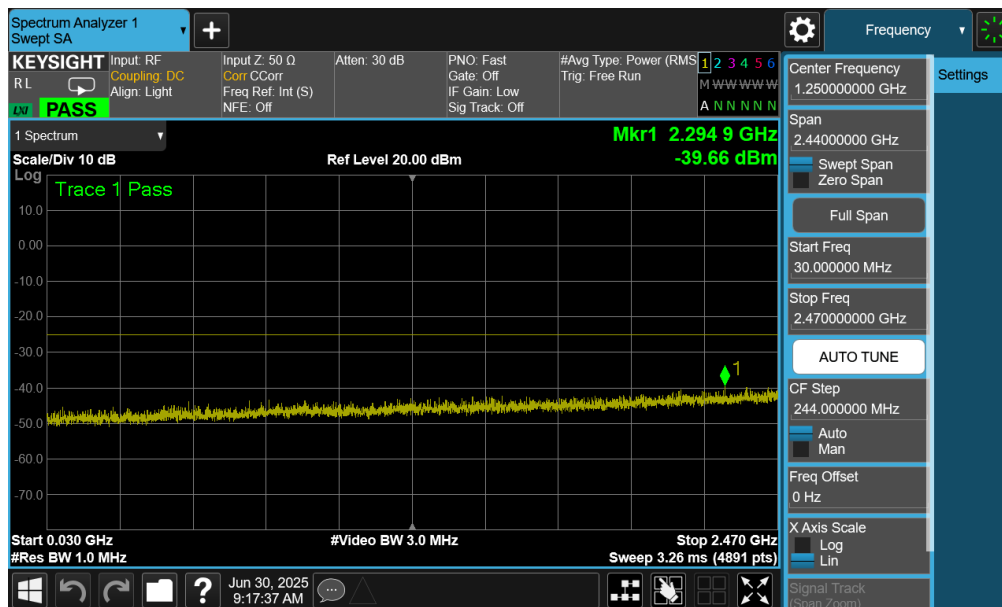
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-04.A3L	Test Dates: 6/3/2025 - 7/18/2025	EUT Type: Portable Tablet	Page 73 of 127



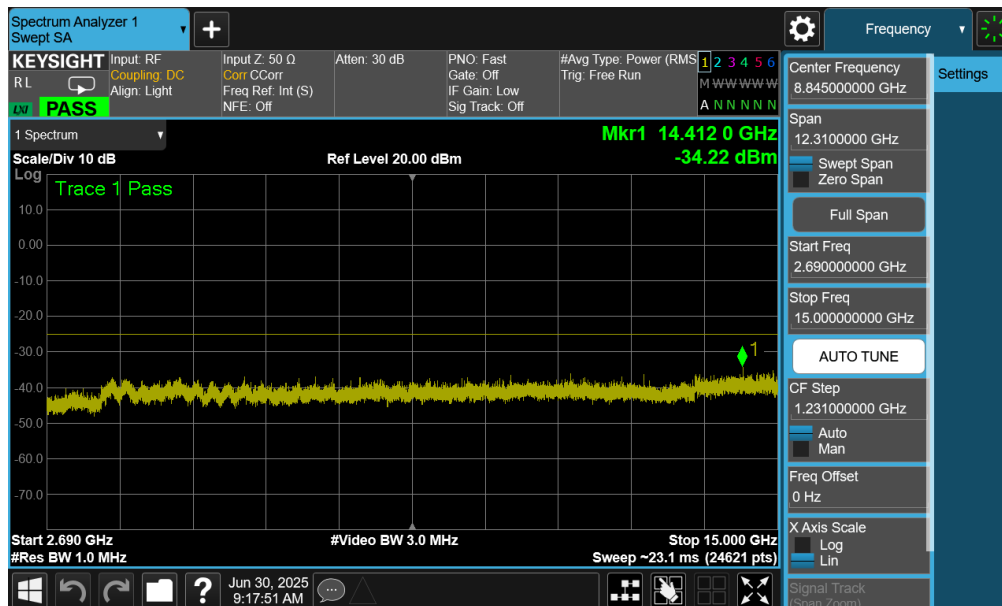
Plot 7-108. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant3)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 PC3 – Ant4

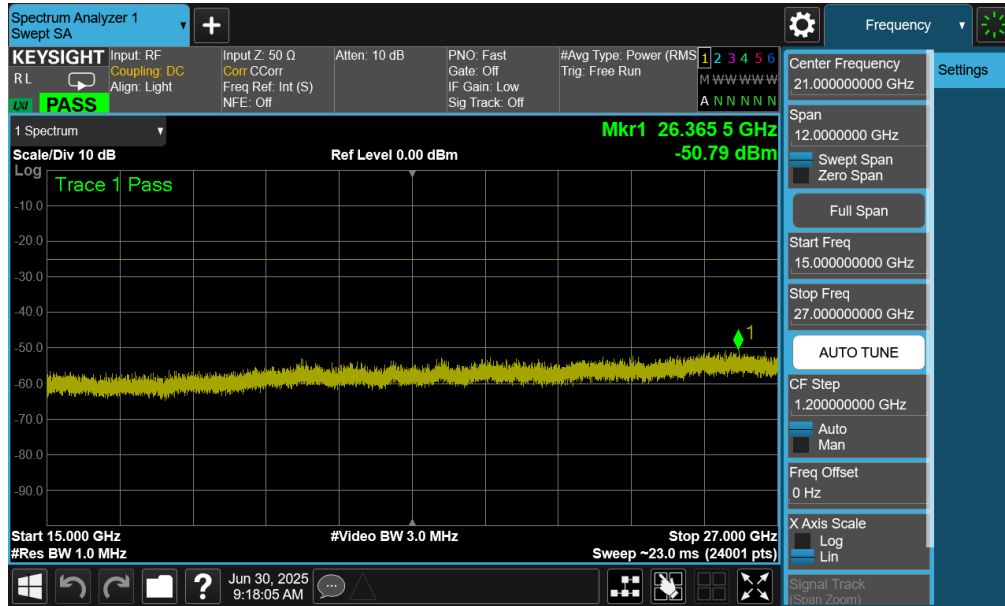


Plot 7-109. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant4)

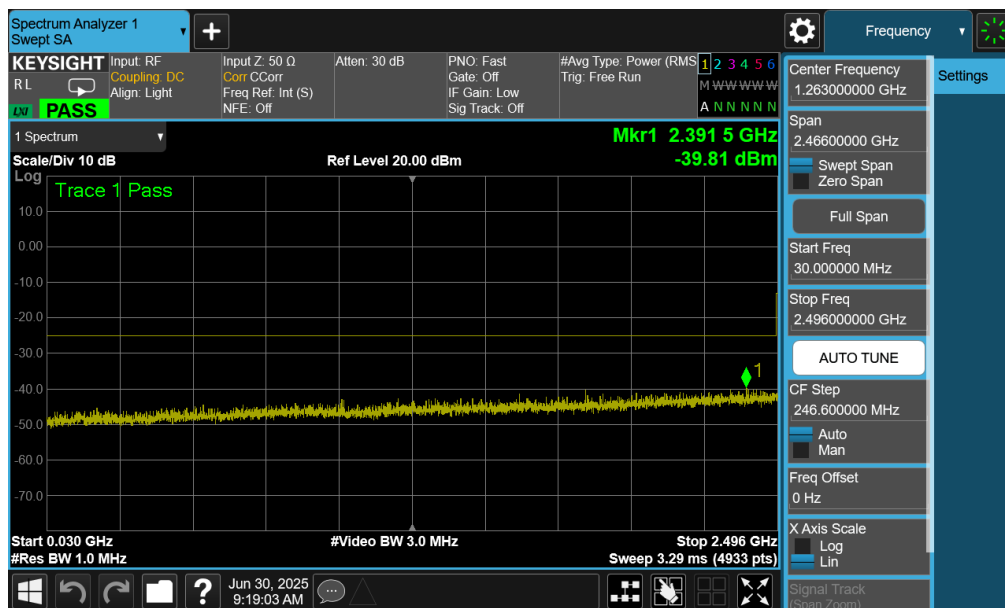


Plot 7-110. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant4)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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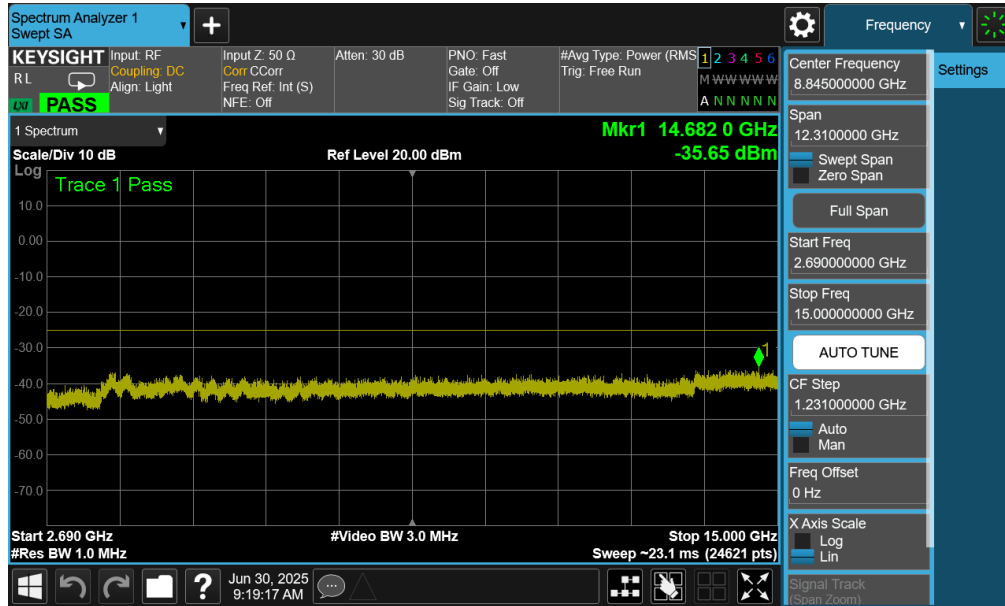


Plot 7-111. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant4)

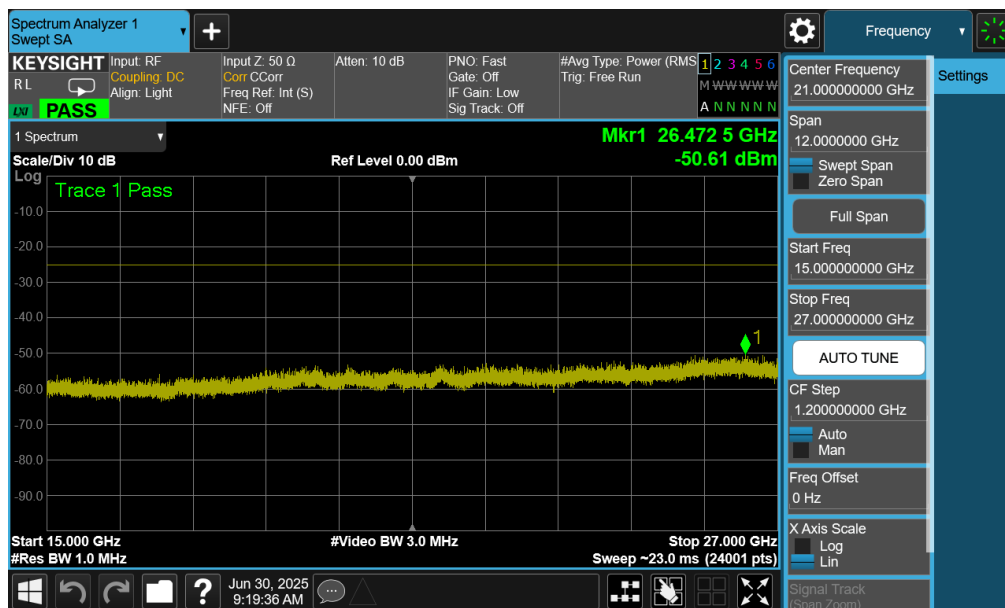


Plot 7-112. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant4)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-04.A3L	Test Dates: 6/3/2025 - 7/18/2025	EUT Type: Portable Tablet	Page 76 of 127

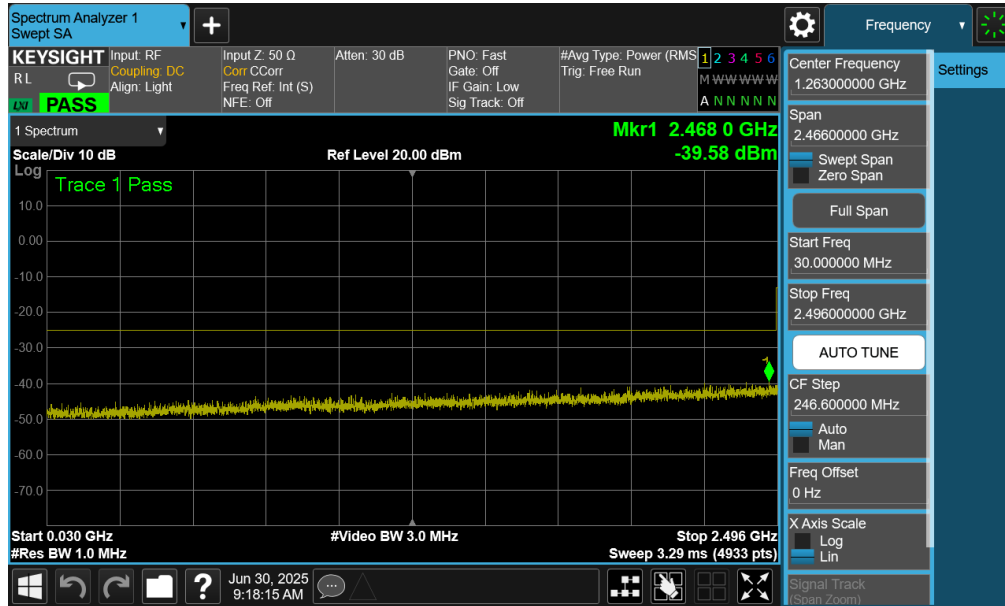


Plot 7-113. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant4)

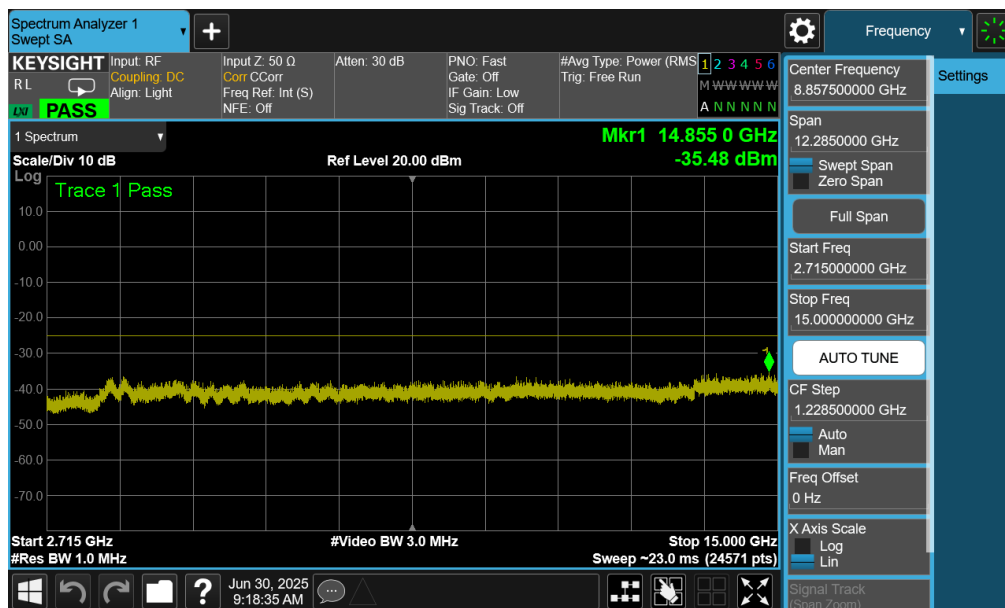


Plot 7-114. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant4)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-04.A3L	Test Dates: 6/3/2025 - 7/18/2025	EUT Type: Portable Tablet	Page 77 of 127

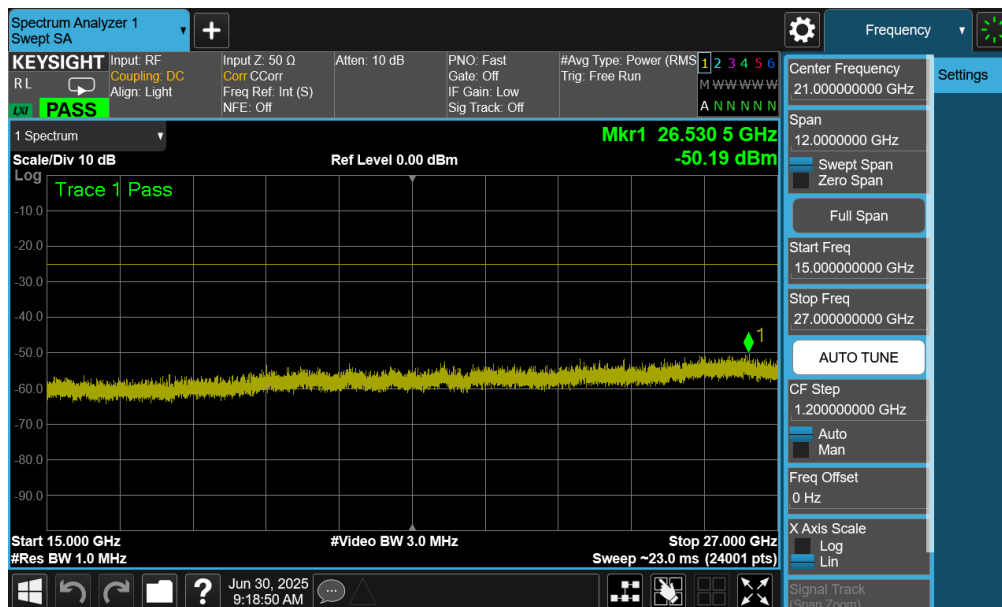


Plot 7-115. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant4)



Plot 7-116. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant4)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-117. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant4)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.5 Band Edge Emissions at Antenna Terminal

Test Overview

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

The minimum permissible attenuation level for Band 41 is as noted in the Test Notes on the following page.

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 for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

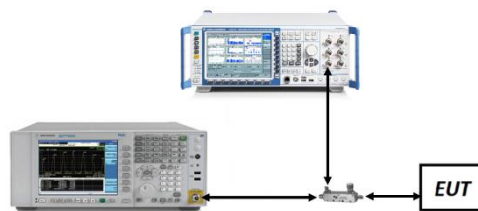


Figure 7-4. Test Instrument & Measurement Setup

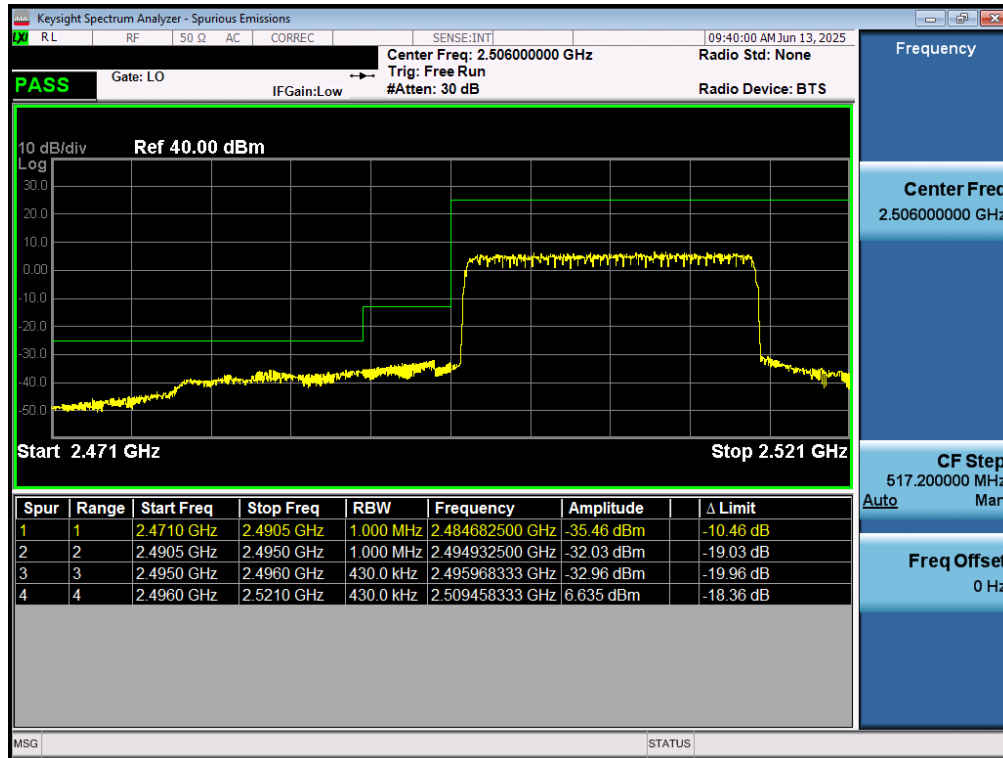
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

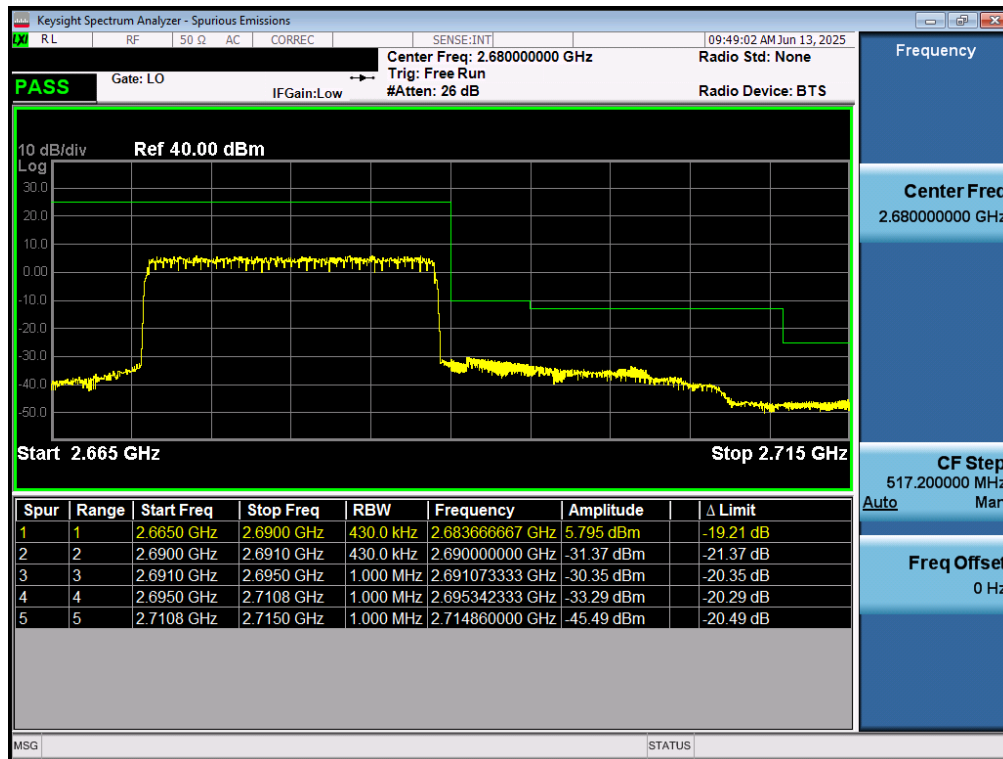
1. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
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.

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC2) – Ant1

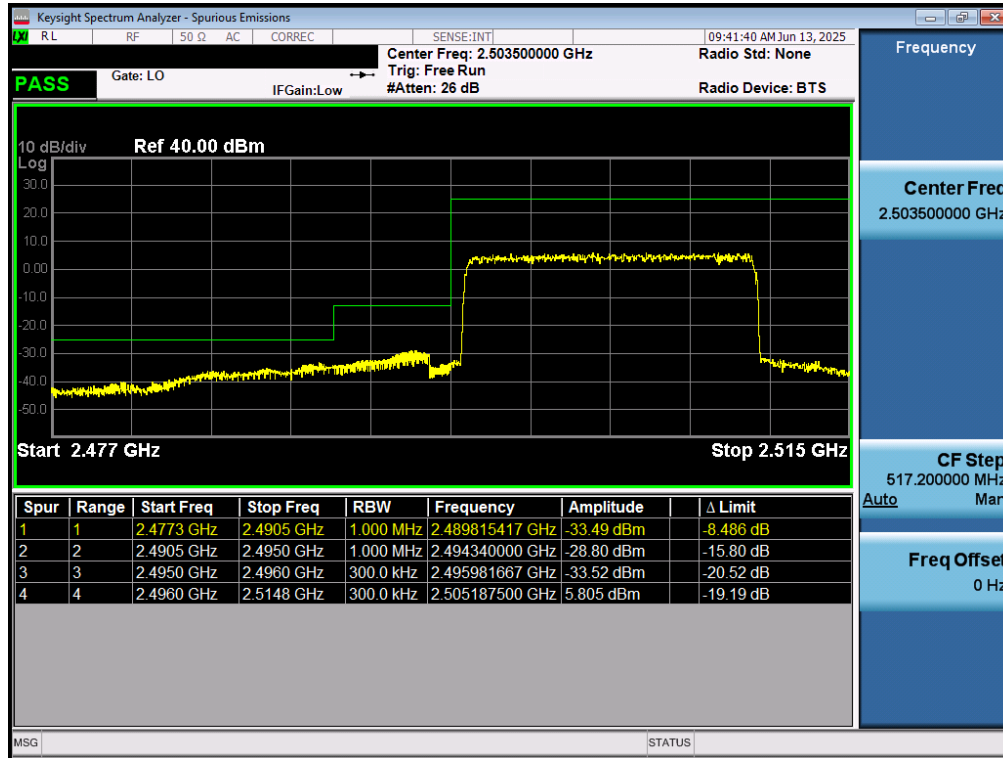


Plot 7-118. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant1)

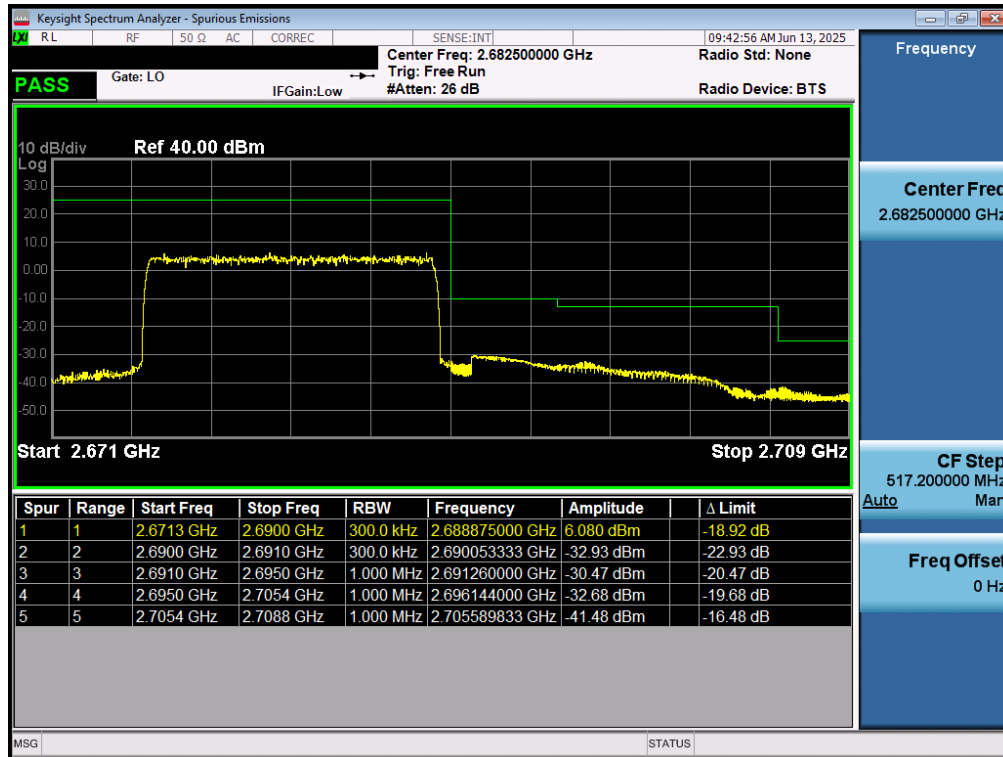


Plot 7-119. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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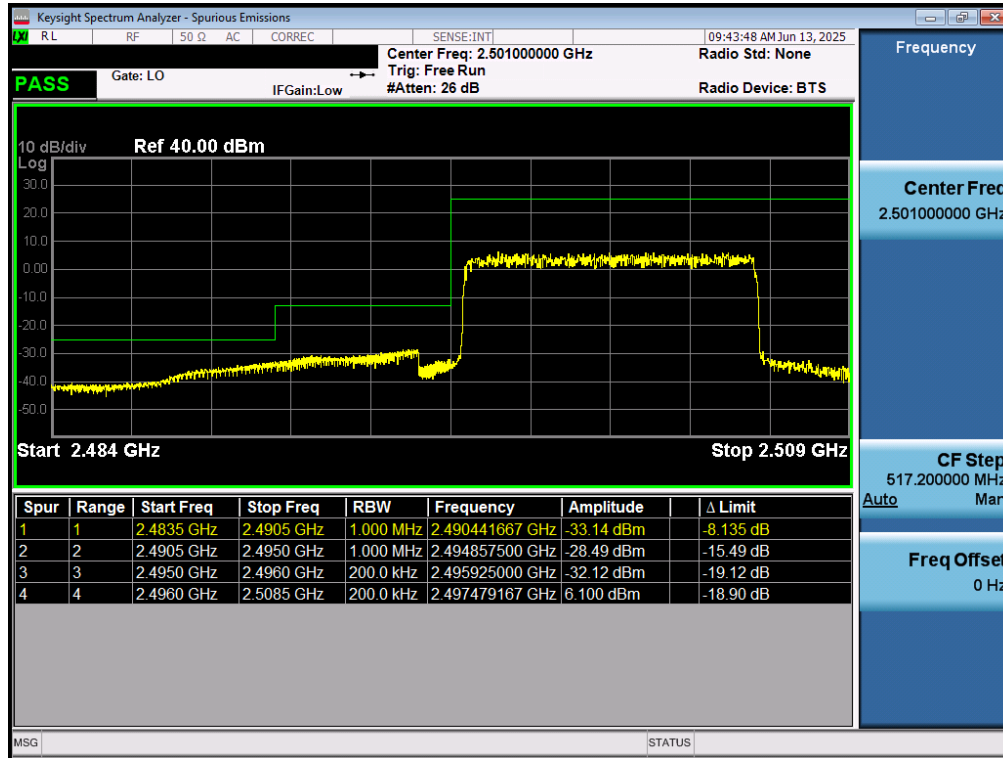


Plot 7-120. Lower ACP Plot (LTE Band 41(PCI2) - 15MHz QPSK – Full RB - Ant1)

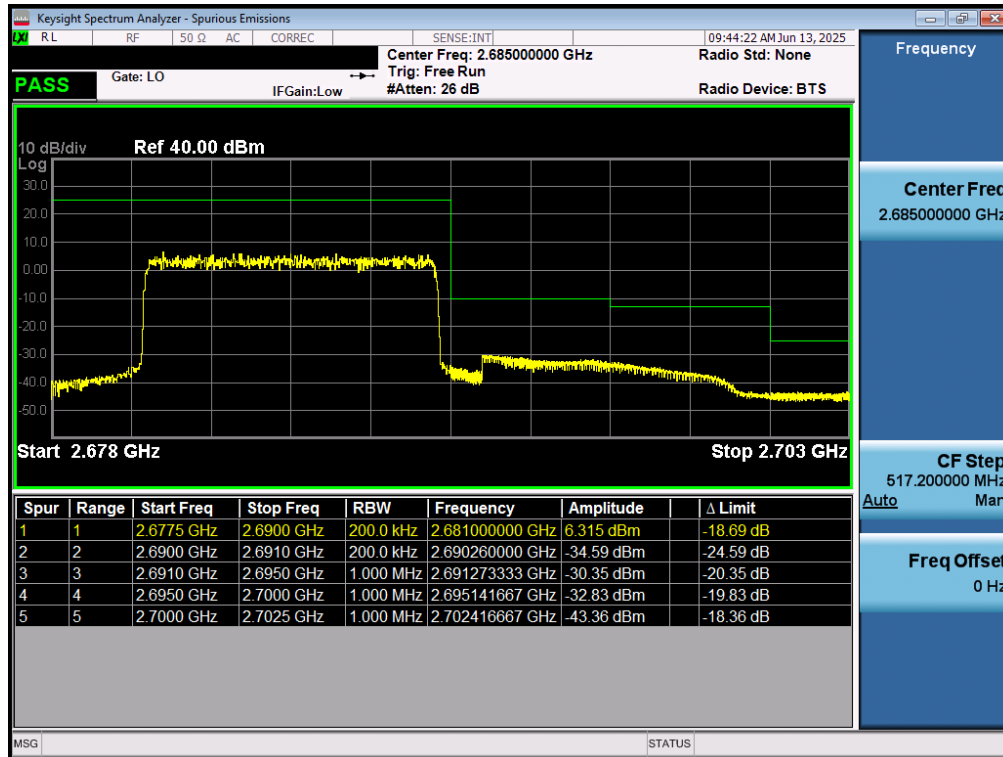


Plot 7-121. Upper ACP Plot (LTE Band 41(PCI2) - 15MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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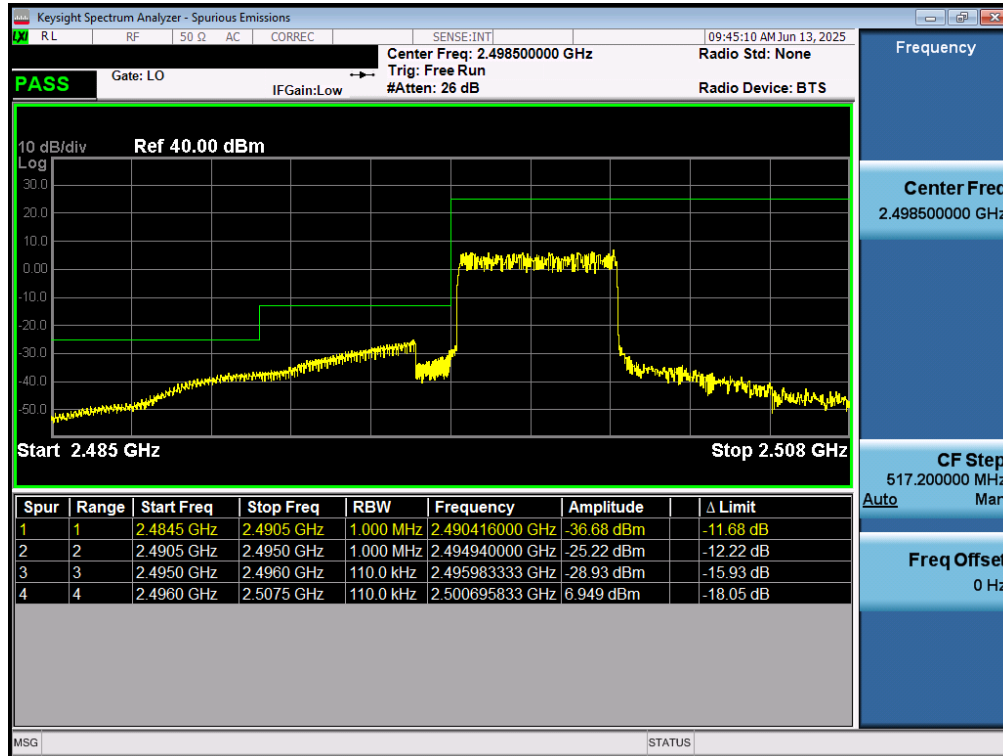


Plot 7-122. Lower ACP Plot (LTE Band 41(PC2) - 10MHz QPSK – Full RB - Ant1)

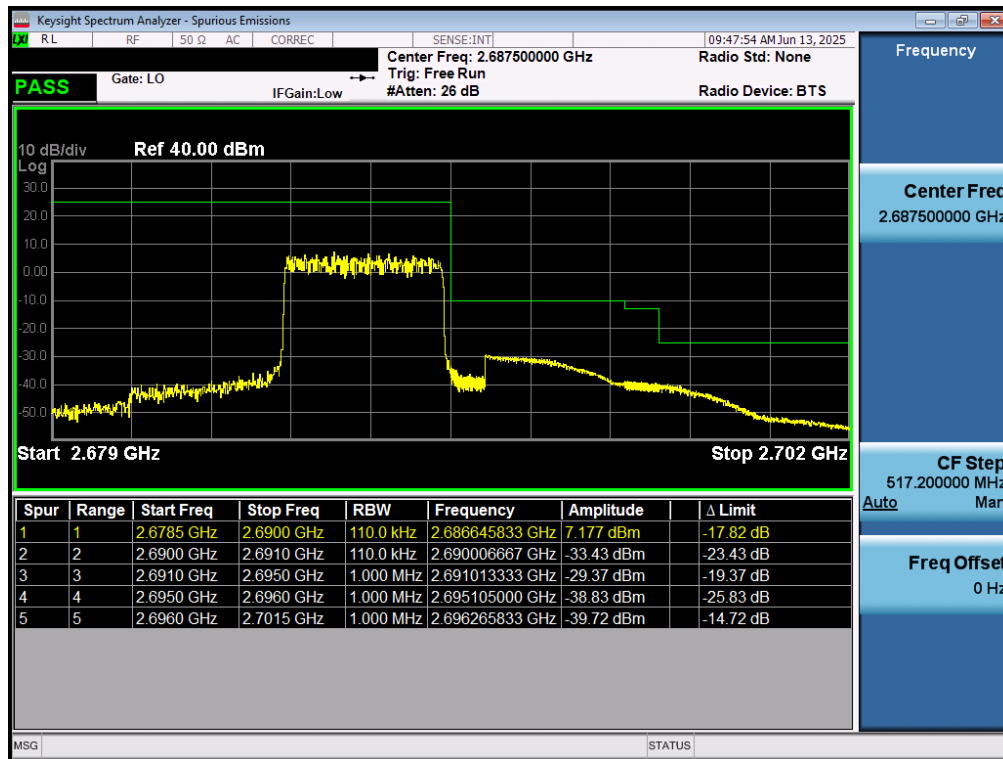


Plot 7-123. Upper ACP Plot (LTE Band 41(PC2) - 10MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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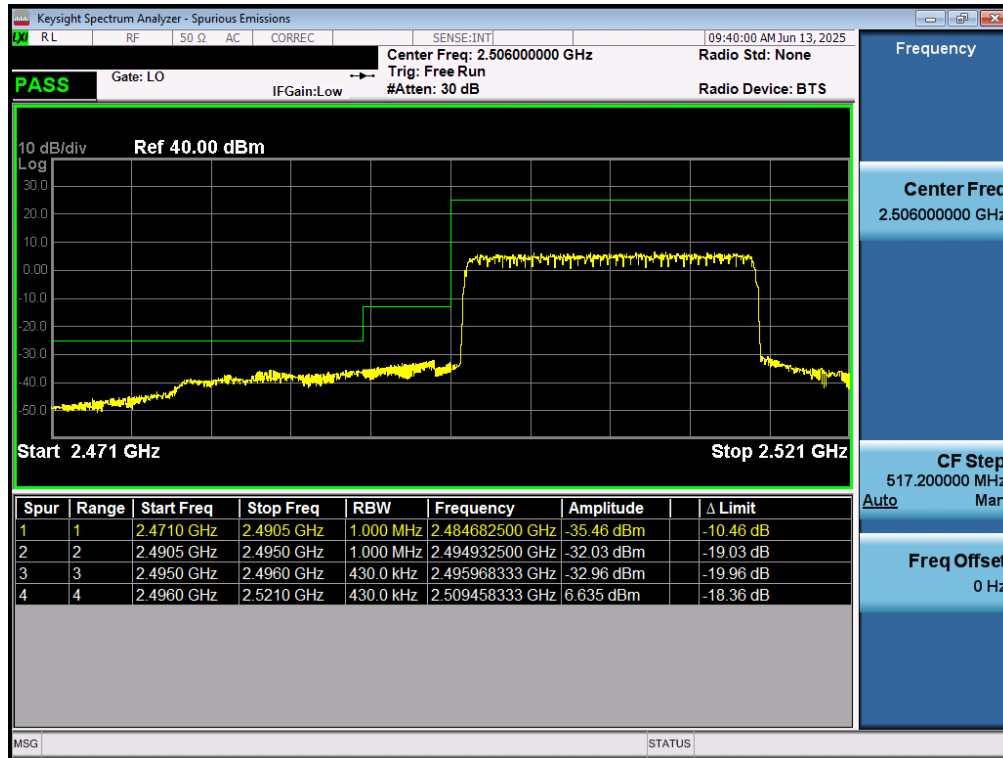
Plot 7-124. Lower ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB - Ant1)



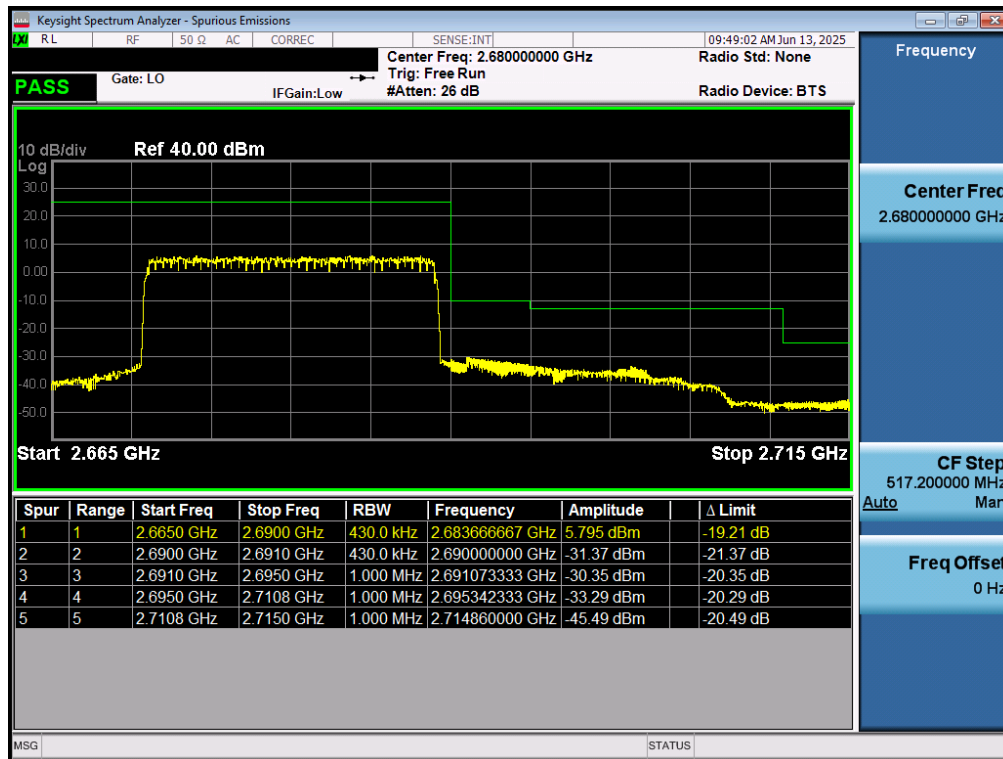
Plot 7-125. Upper ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC3) – Ant1

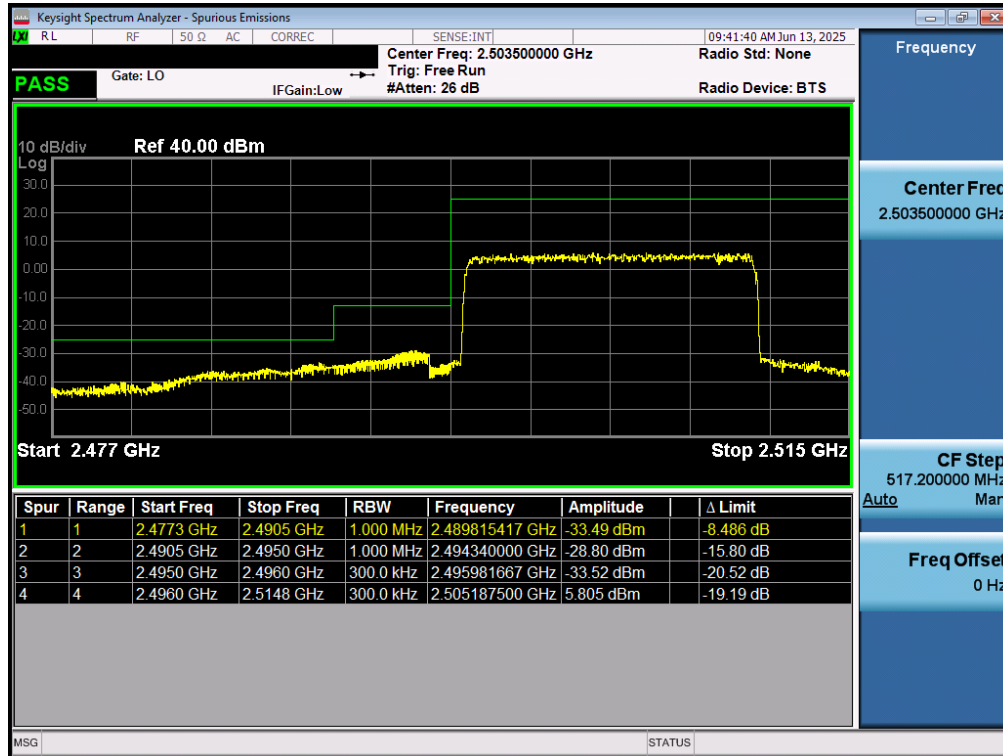


Plot 7-126. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant1)

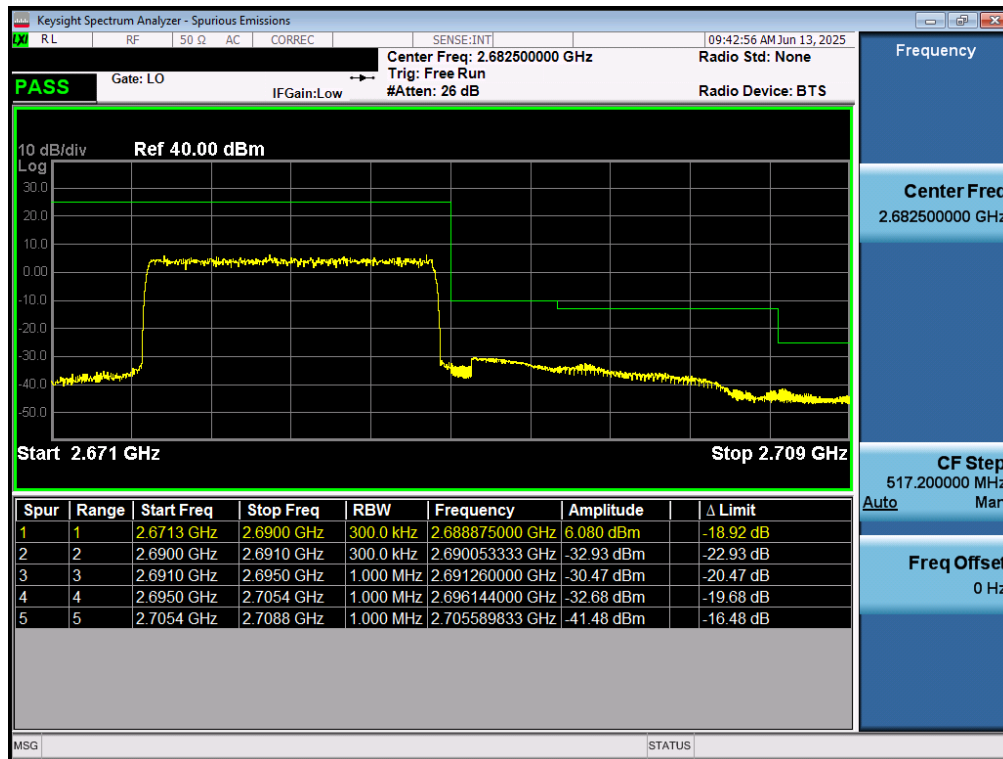


Plot 7-127. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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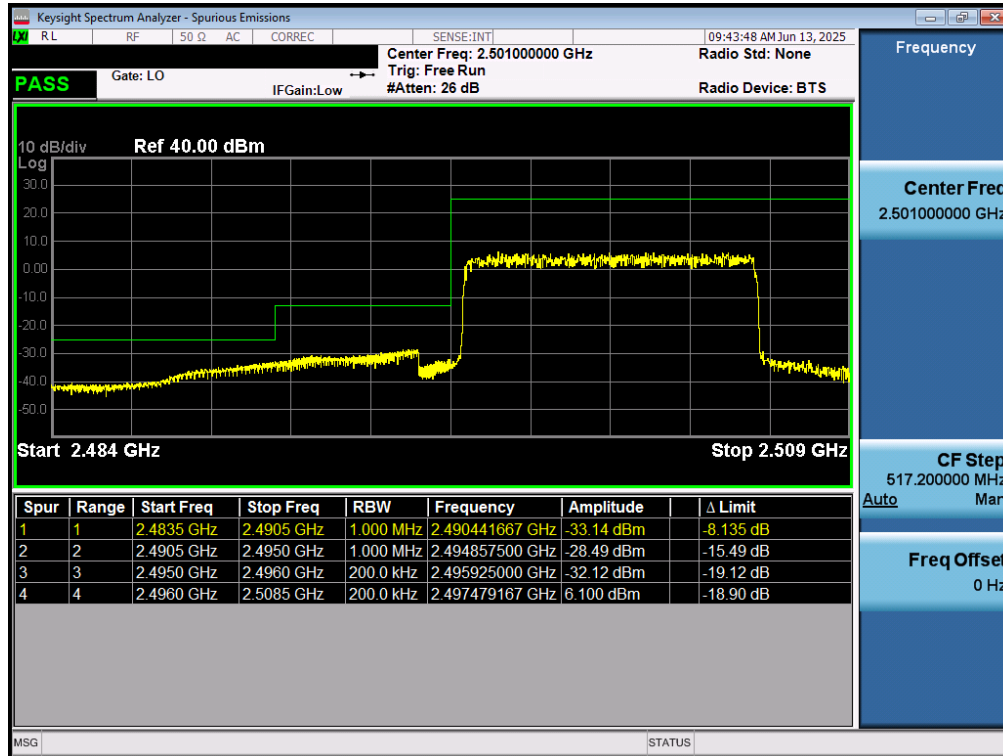


Plot 7-128. Lower ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB - Ant1)

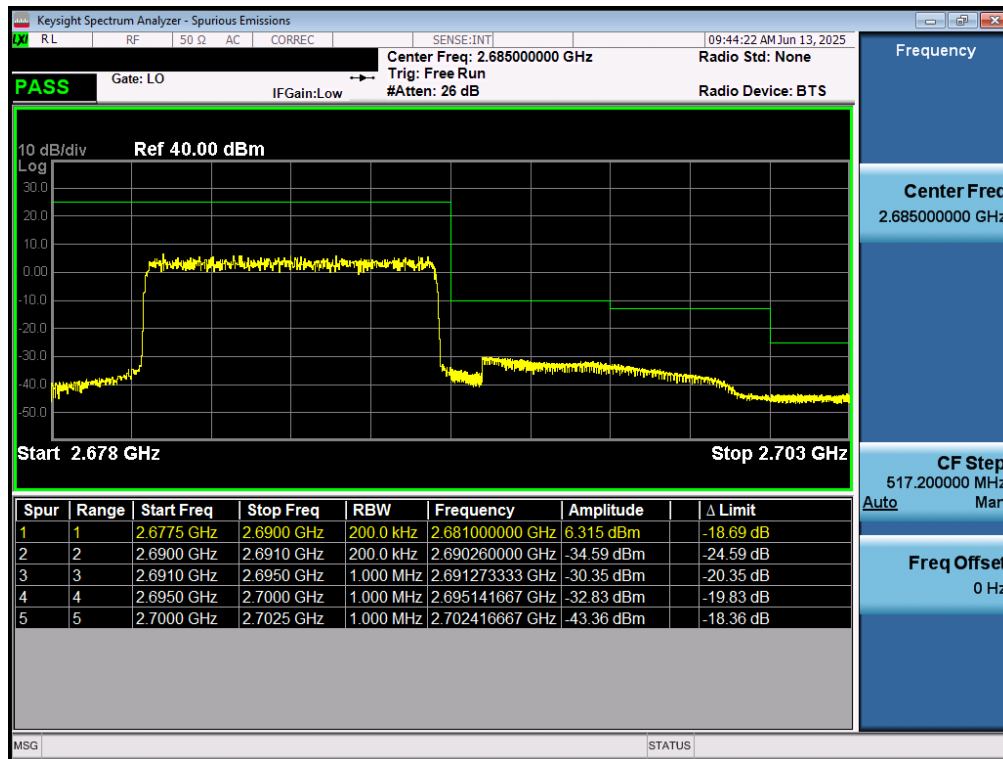


Plot 7-129. Upper ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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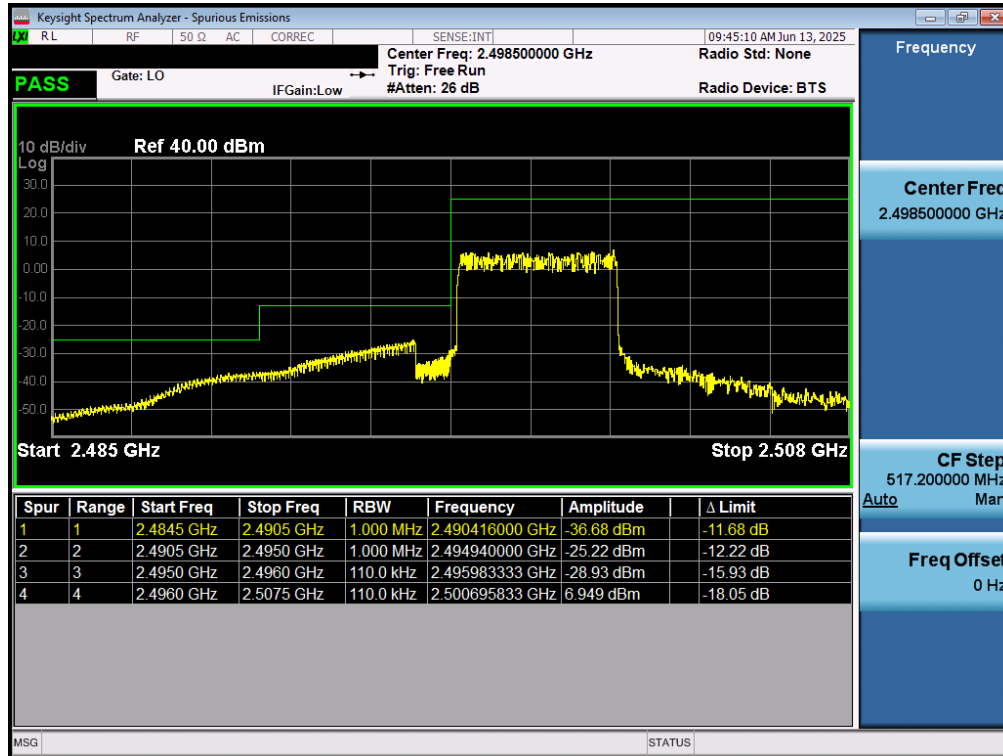


Plot 7-130. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK - Full RB - Ant1)

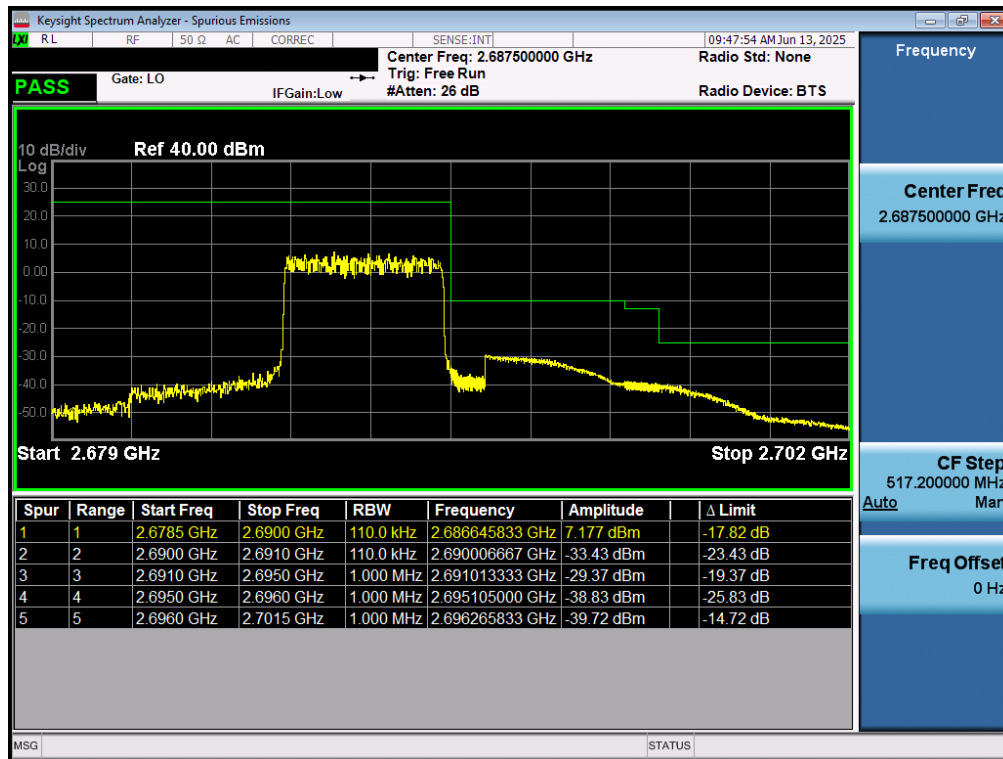


Plot 7-131. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK - Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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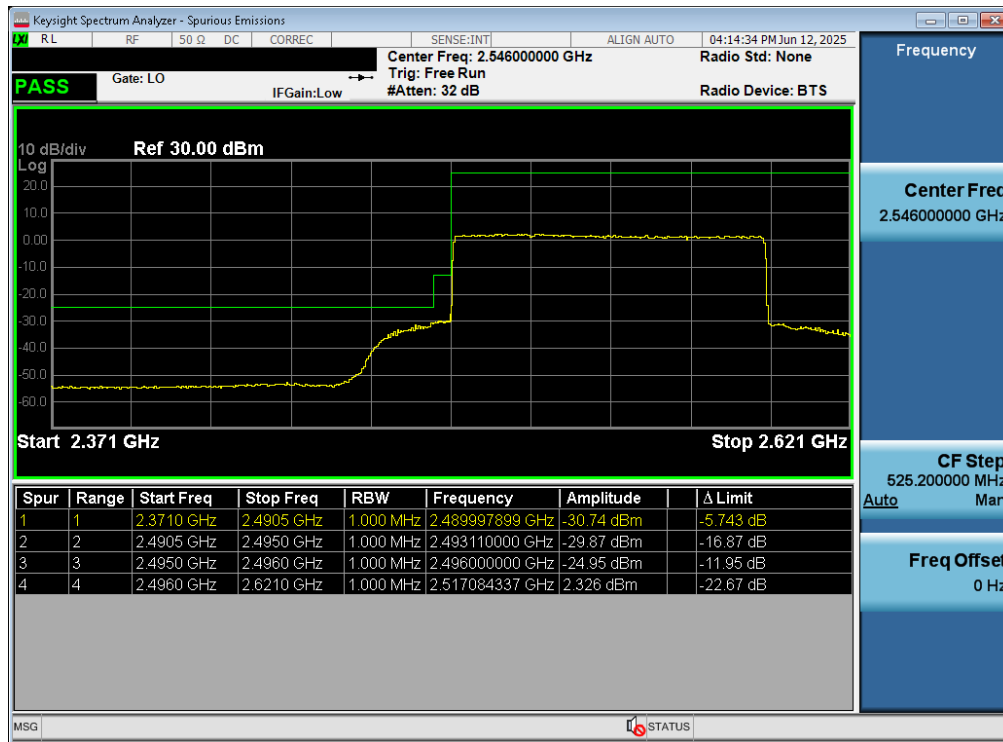
Plot 7-132. Lower ACP Plot (LTE Band 41(PC3) - 5MHz QPSK – Full RB - Ant1)



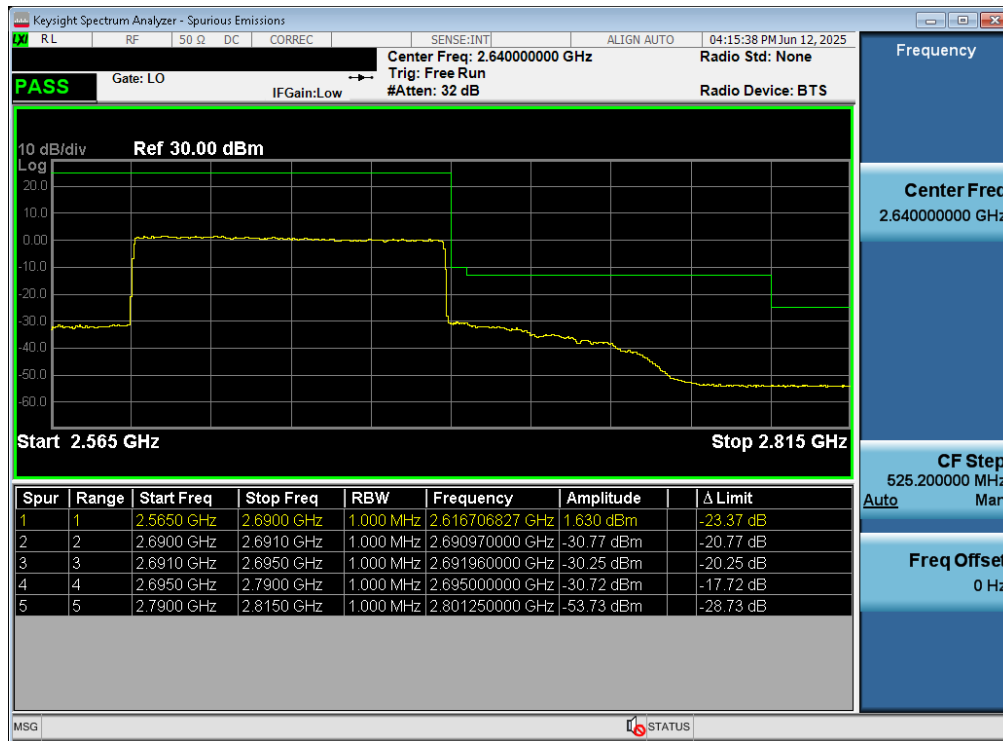
Plot 7-133. Upper ACP Plot (LTE Band 41(PC3) - 5MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 PC3 – Ant1

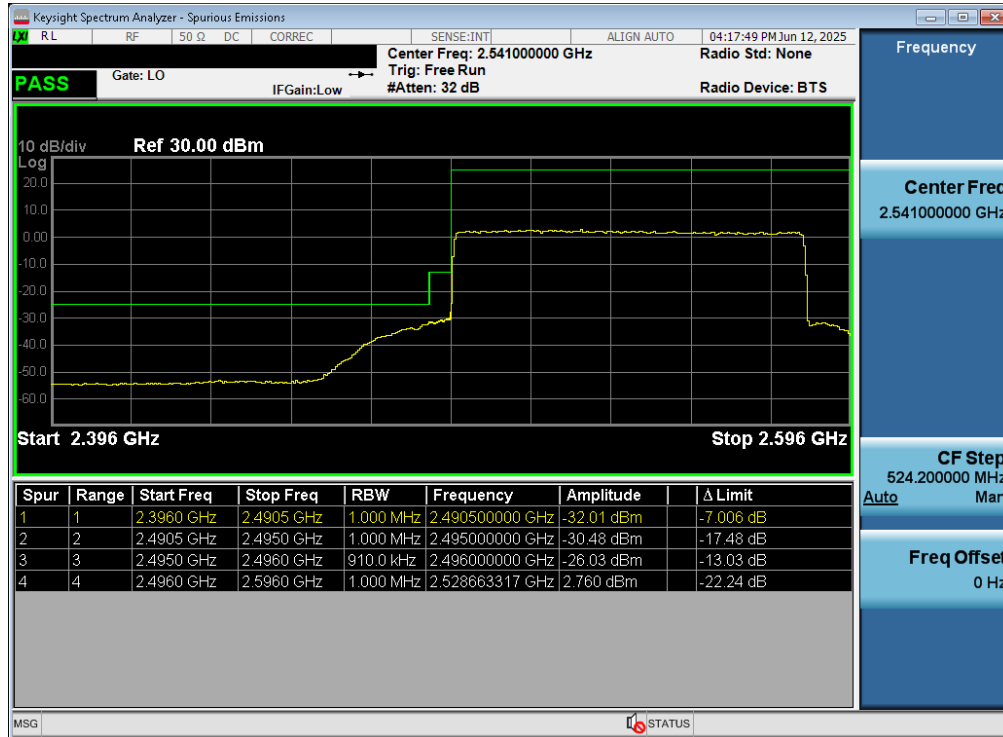


Plot 7-134. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant1)

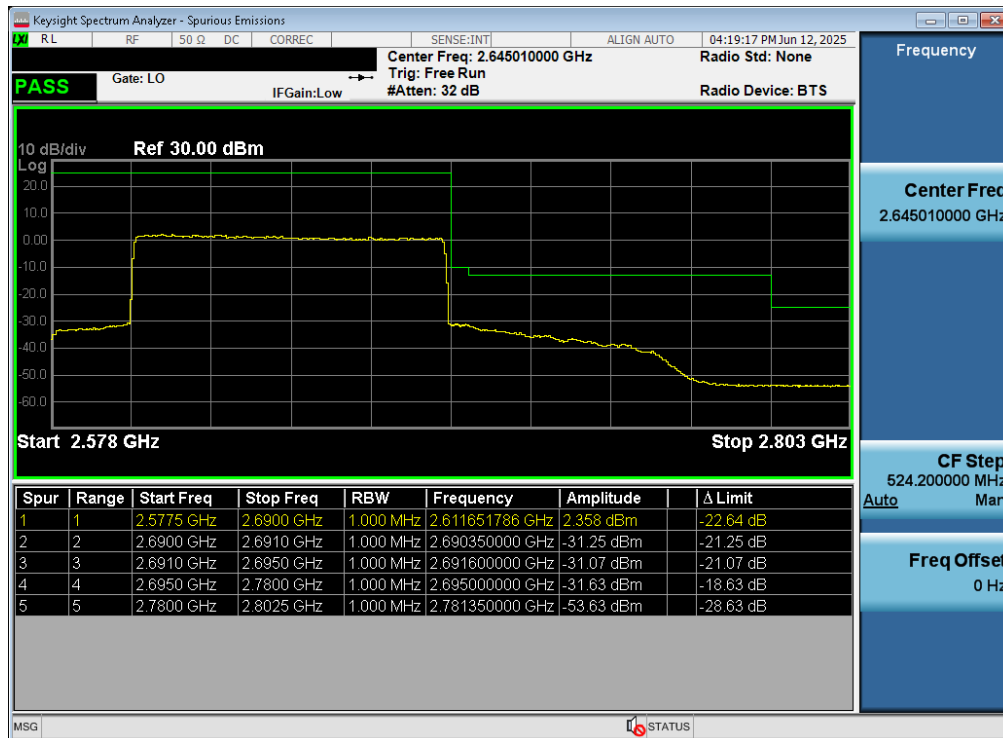


Plot 7-135. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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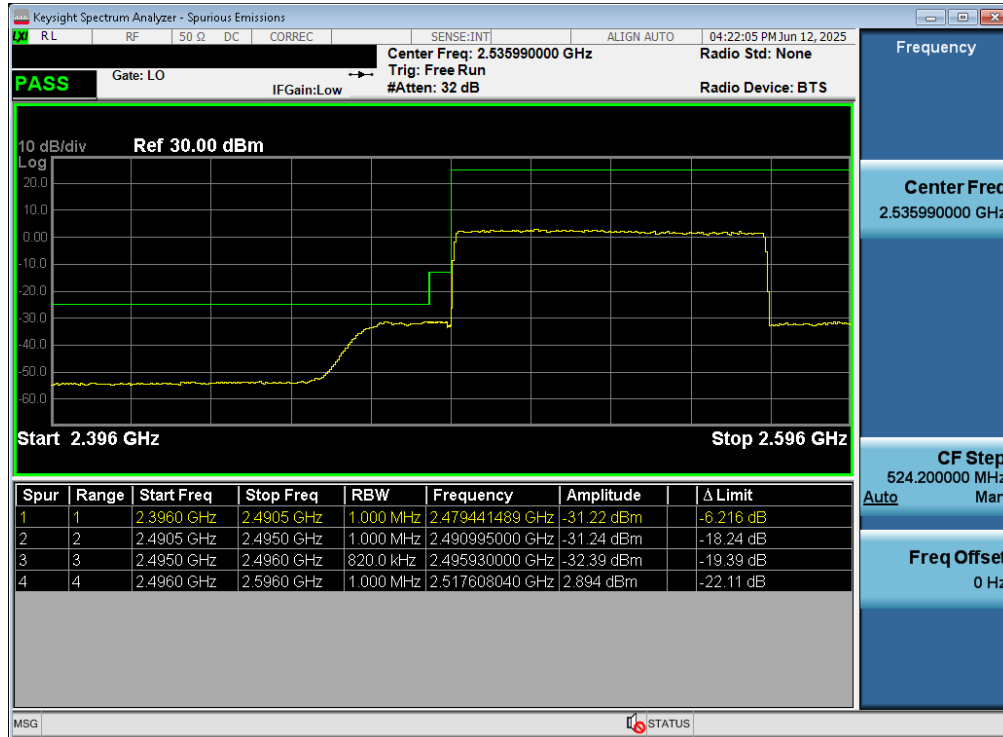


Plot 7-136. Lower ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK - Full RB - Ant1)

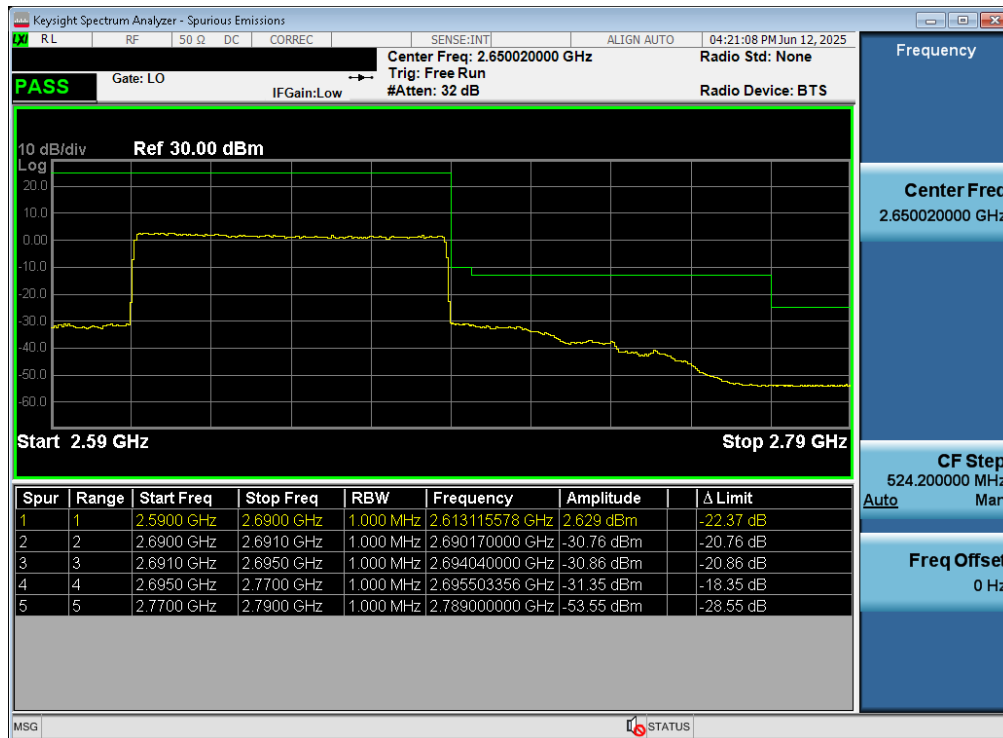


Plot 7-137. Upper ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK - Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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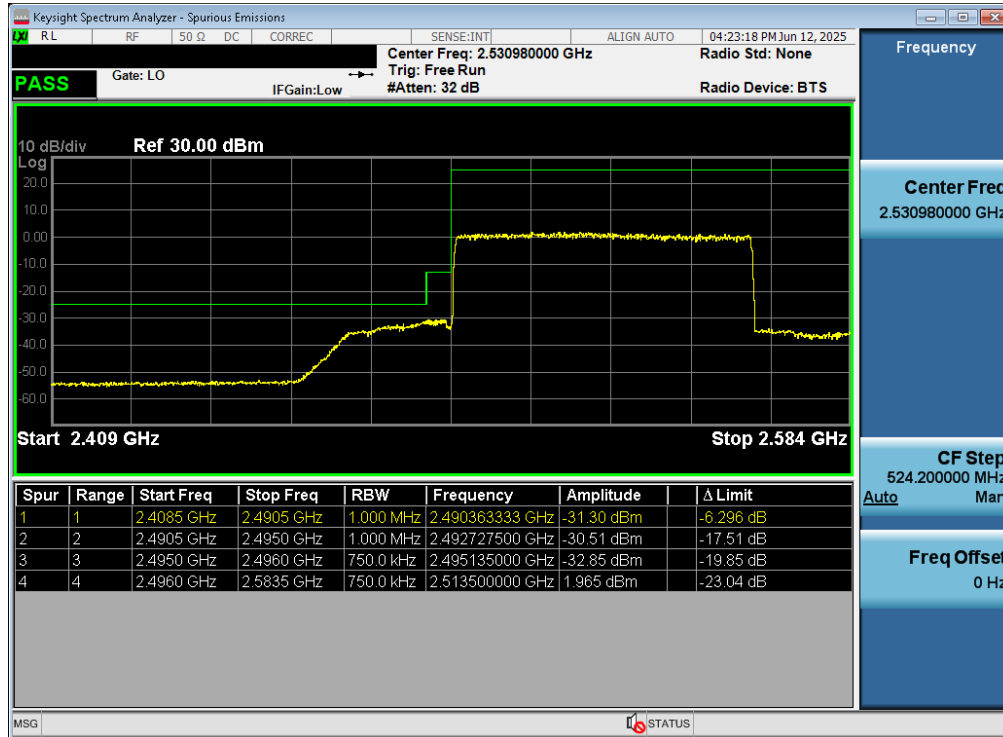


Plot 7-138. Lower ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK – Full RB - Ant1)

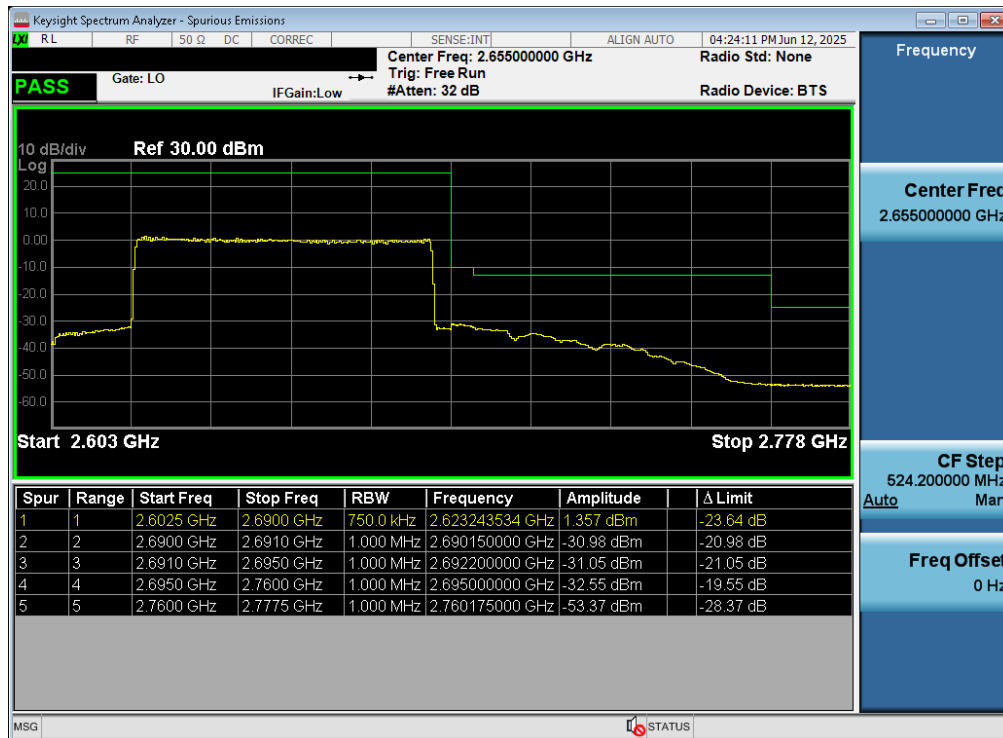


Plot 7-139. Upper ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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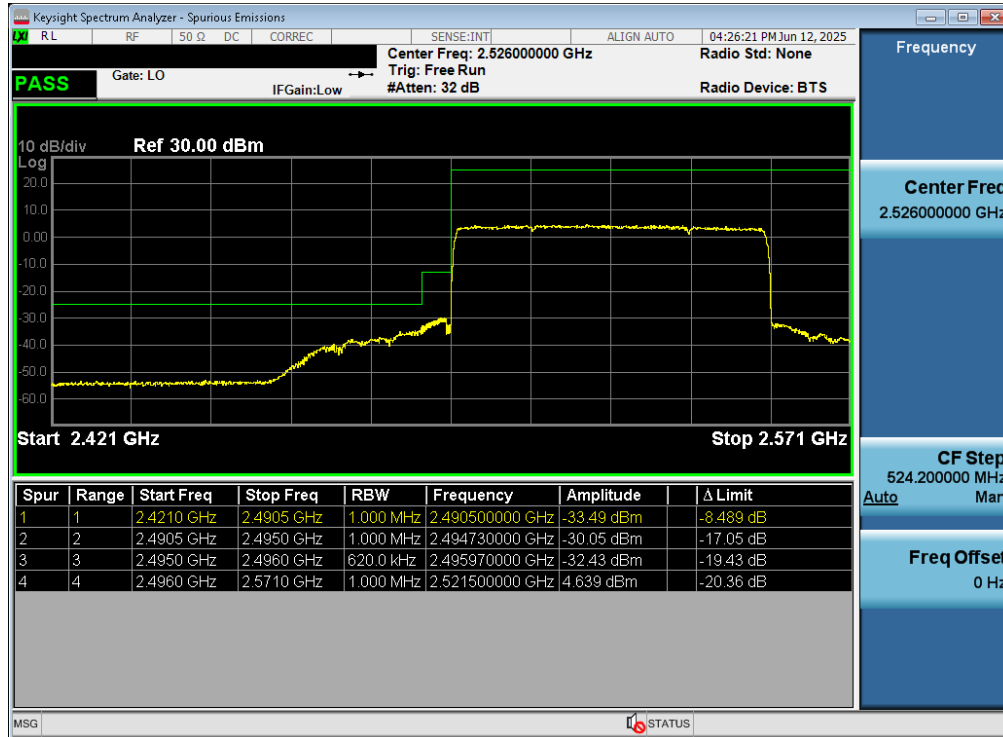


Plot 7-140. Lower ACP Plot (NR Band n41 - 70MHz CP-OFDM-QPSK – Full RB - Ant1)

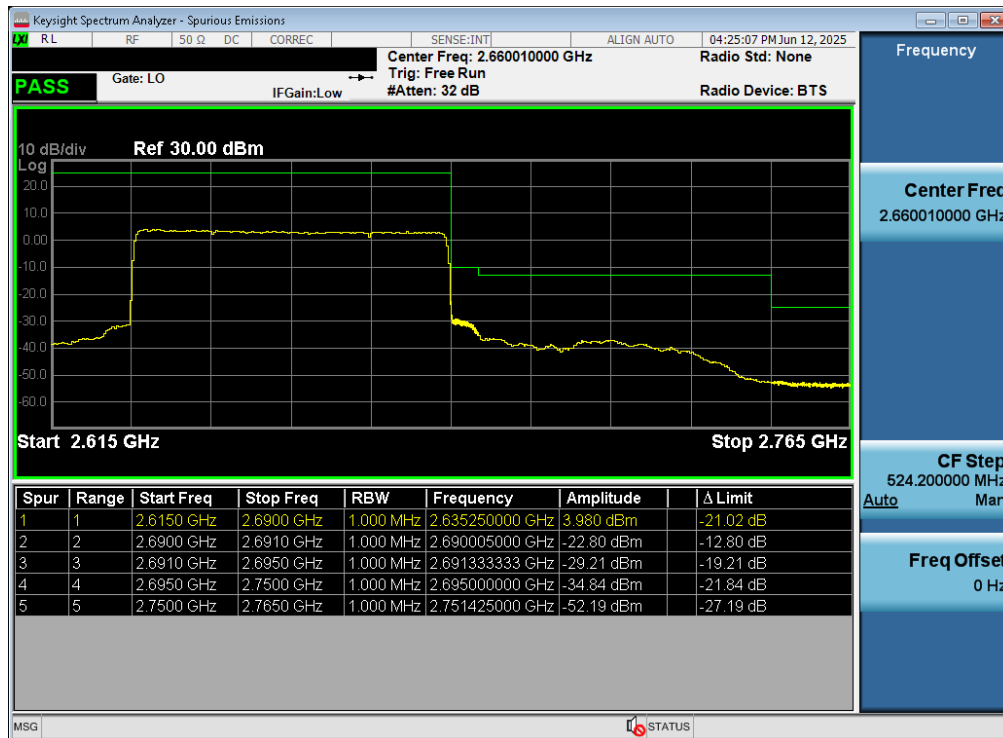


Plot 7-141. Upper ACP Plot (NR Band n41 - 70MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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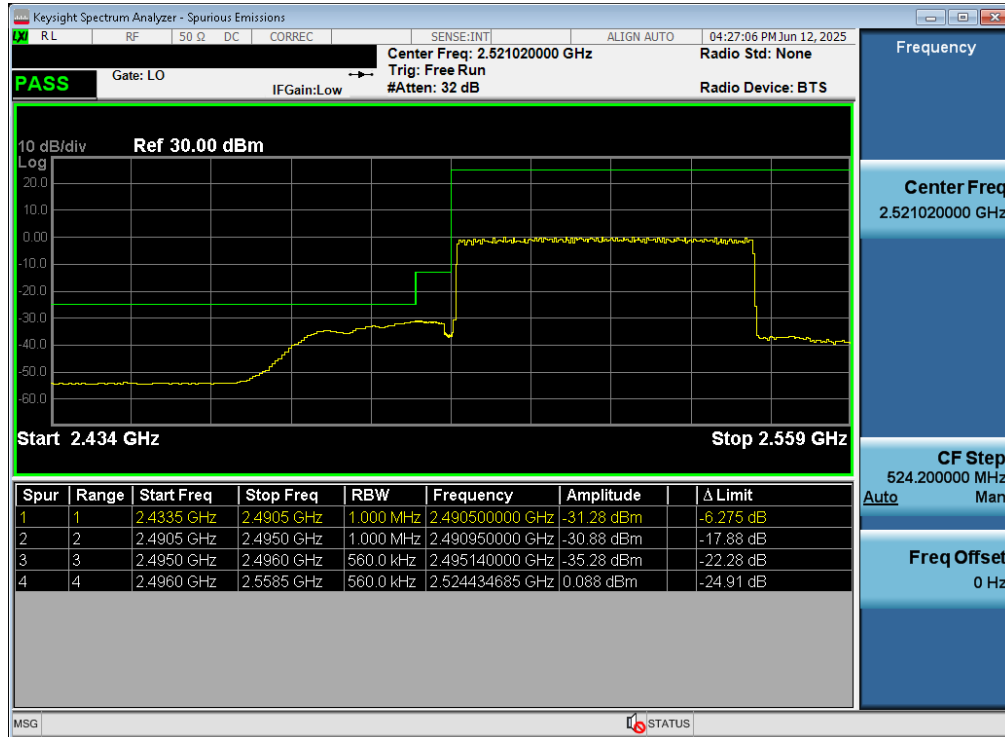


Plot 7-142. Lower ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK - Full RB - Ant1)

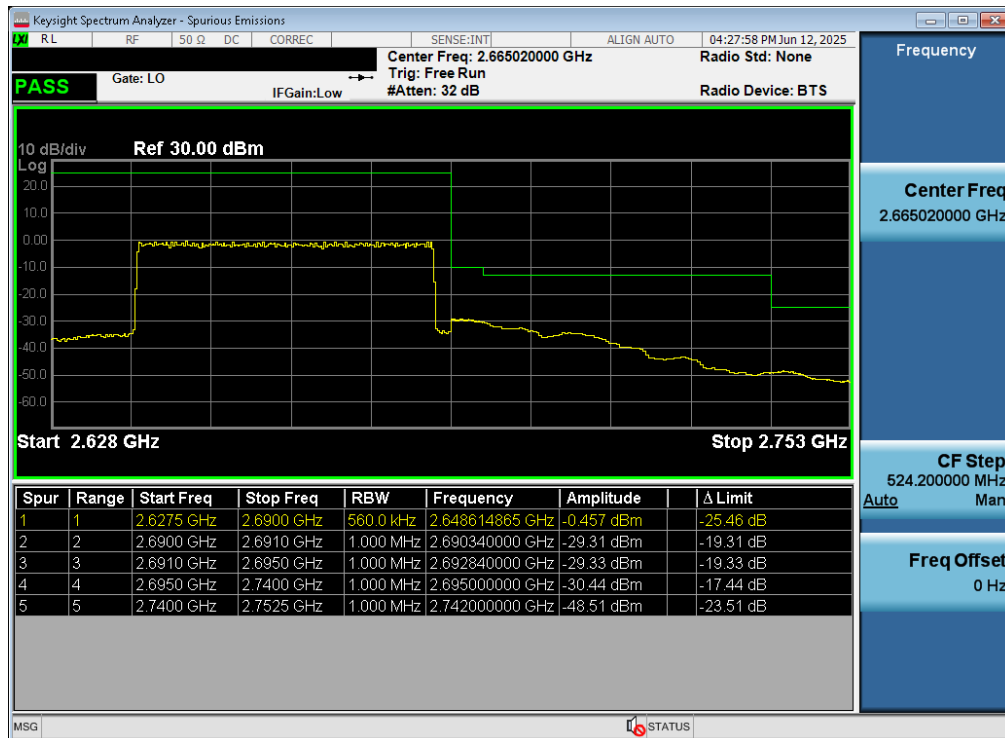


Plot 7-143. Upper ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK - Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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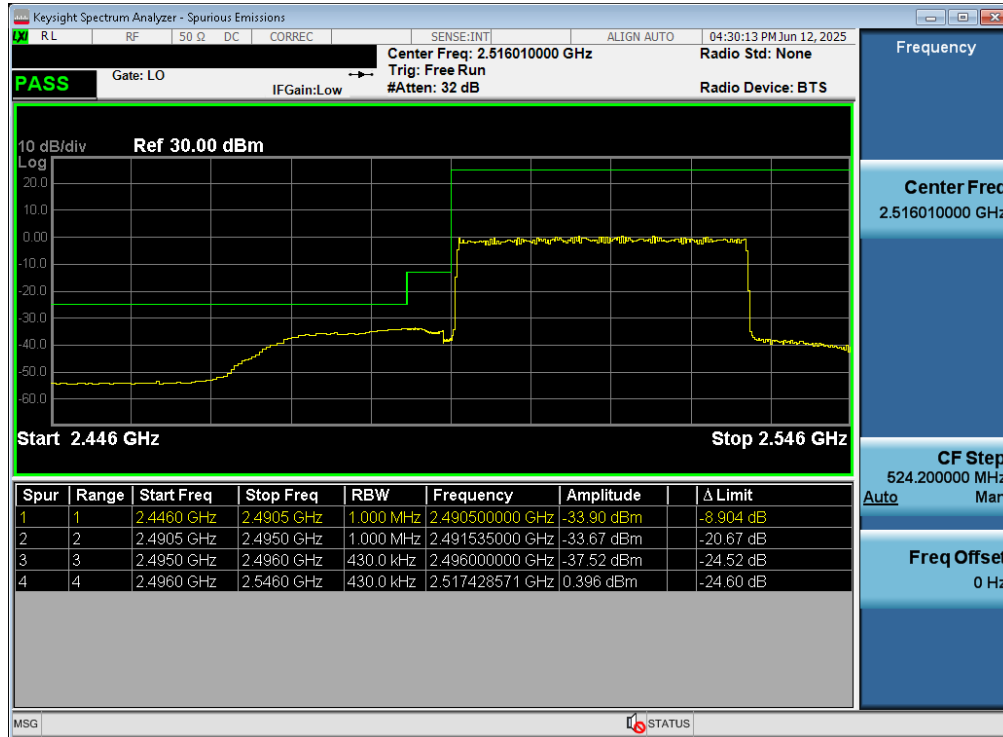


Plot 7-144. Lower ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK - Full RB - Ant1)

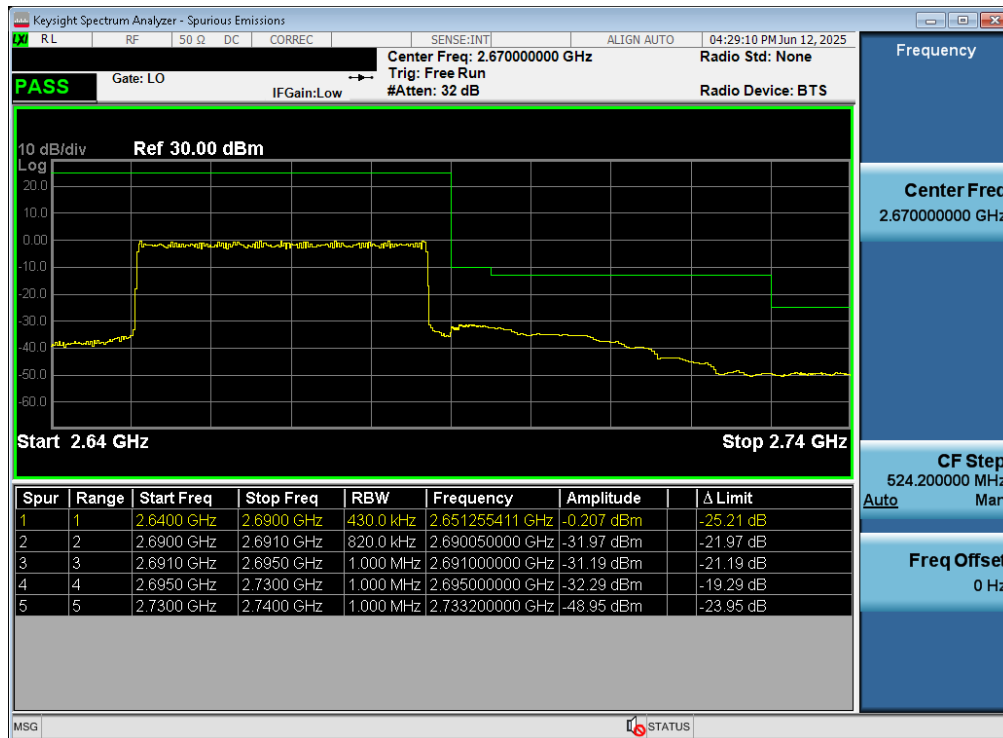


Plot 7-145. Upper ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK - Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-04.A3L	Test Dates: 6/3/2025 - 7/18/2025	EUT Type: Portable Tablet	Page 95 of 127

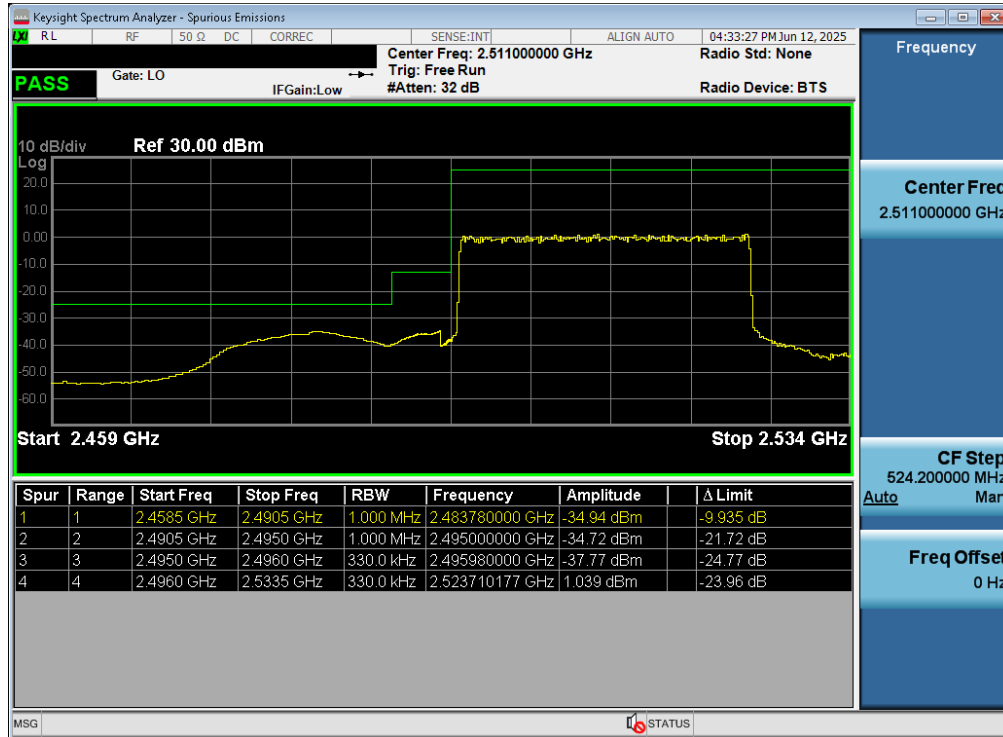


Plot 7-146. Lower ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB - Ant1)

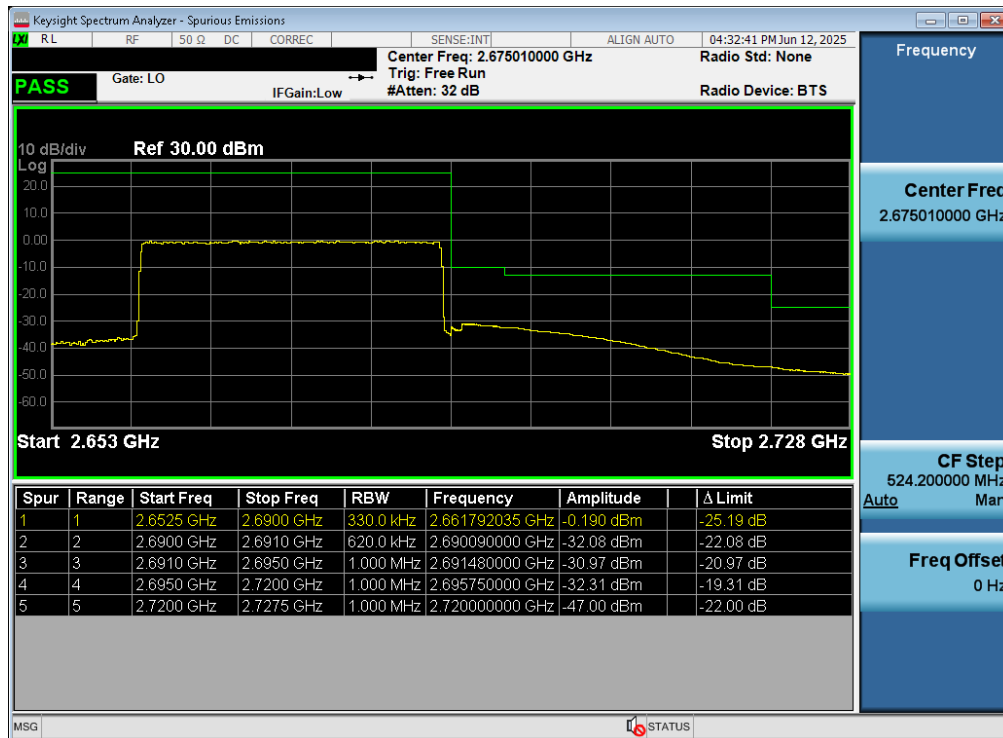


Plot 7-147. Upper ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-04.A3L	Test Dates: 6/3/2025 - 7/18/2025	EUT Type: Portable Tablet	Page 96 of 127

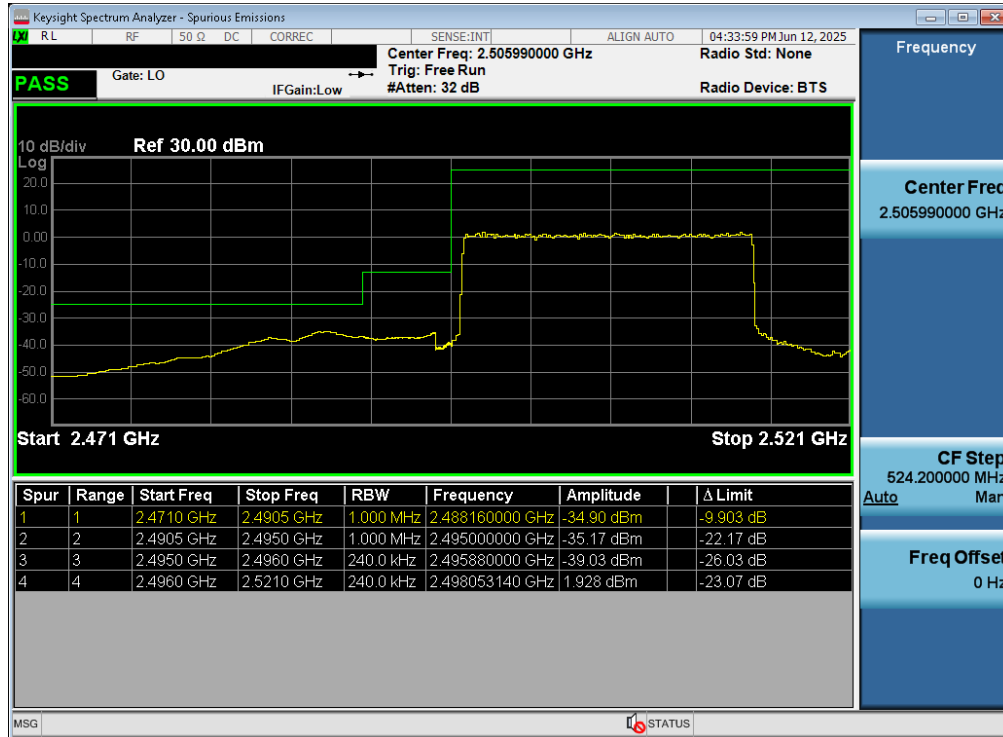


Plot 7-148. Lower ACP Plot (NR Band n41 - 30MHz CP-OFDM-QPSK – Full RB - Ant1)

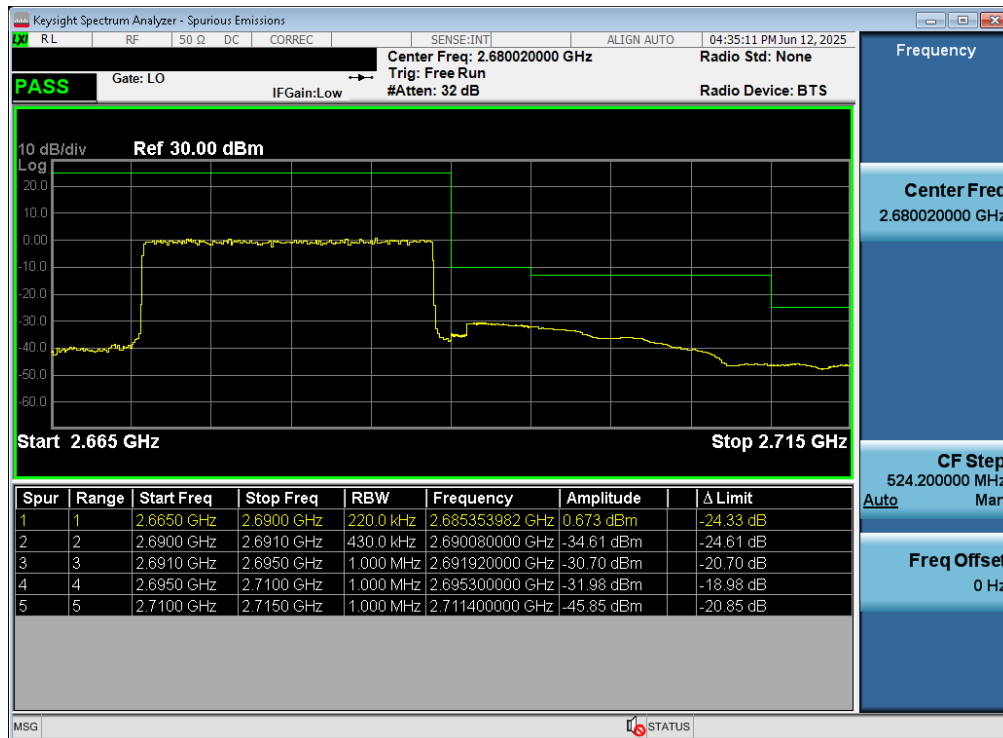


Plot 7-149. Upper ACP Plot (NR Band n41 - 30MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-04.A3L	Test Dates: 6/3/2025 - 7/18/2025	EUT Type: Portable Tablet	Page 97 of 127

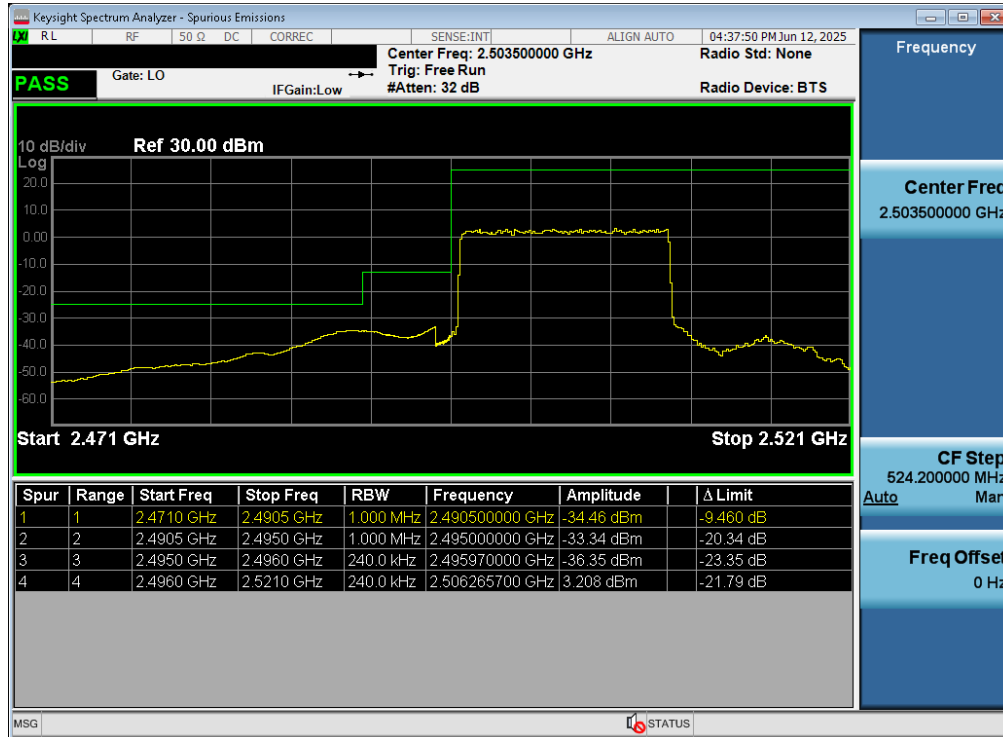


Plot 7-150. Lower ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK – Full RB - Ant1)

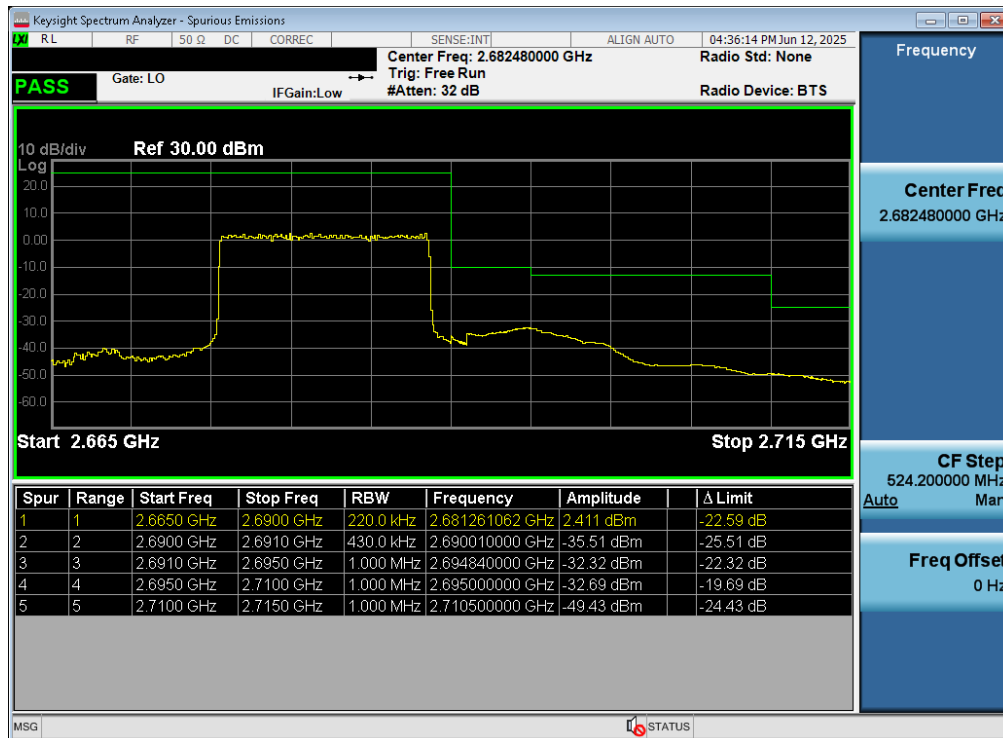


Plot 7-151. Upper ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-04.A3L	Test Dates: 6/3/2025 - 7/18/2025	EUT Type: Portable Tablet	Page 98 of 127

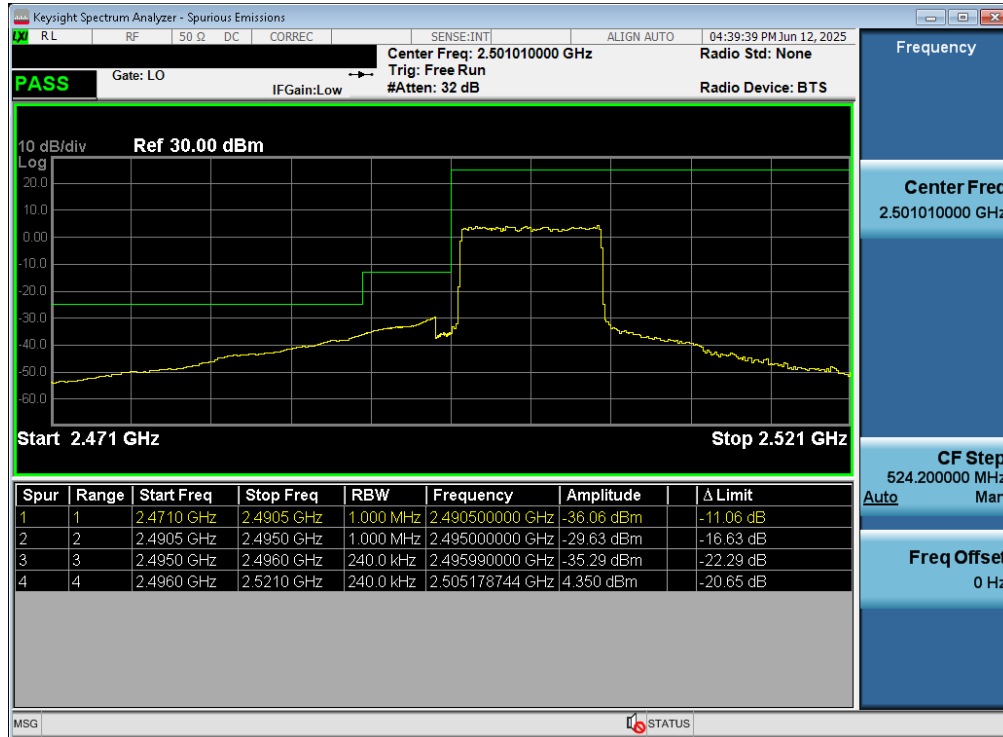


Plot 7-152. Lower ACP Plot (NR Band n41 - 15MHz CP-OFDM-QPSK – Full RB - Ant1)

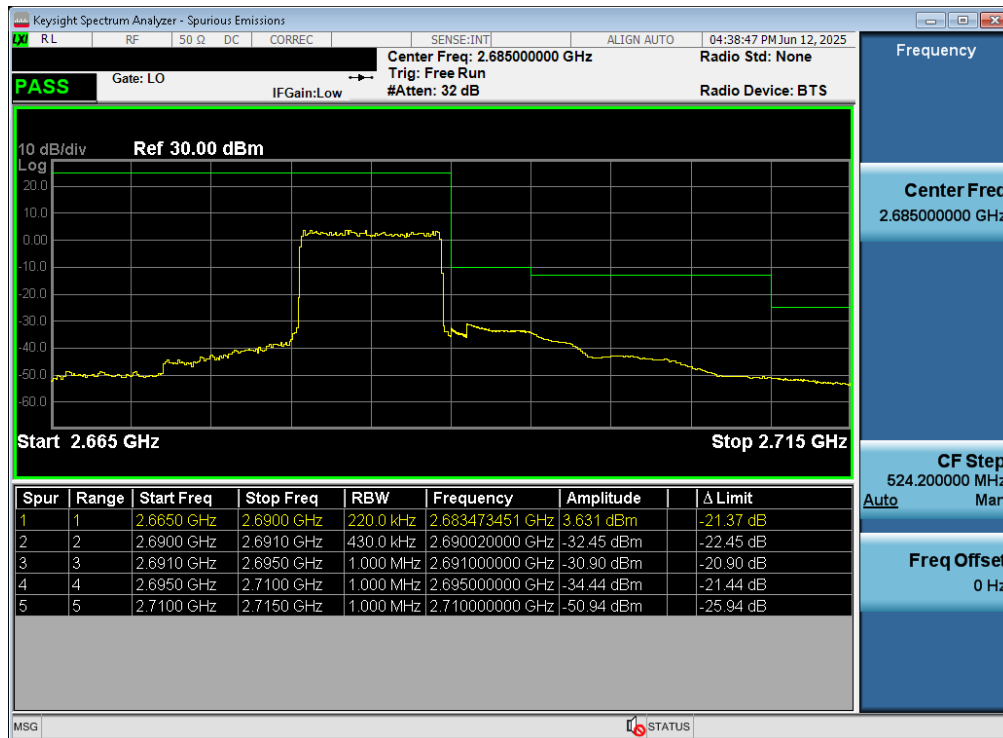


Plot 7-153. Upper ACP Plot (NR Band n41 - 15MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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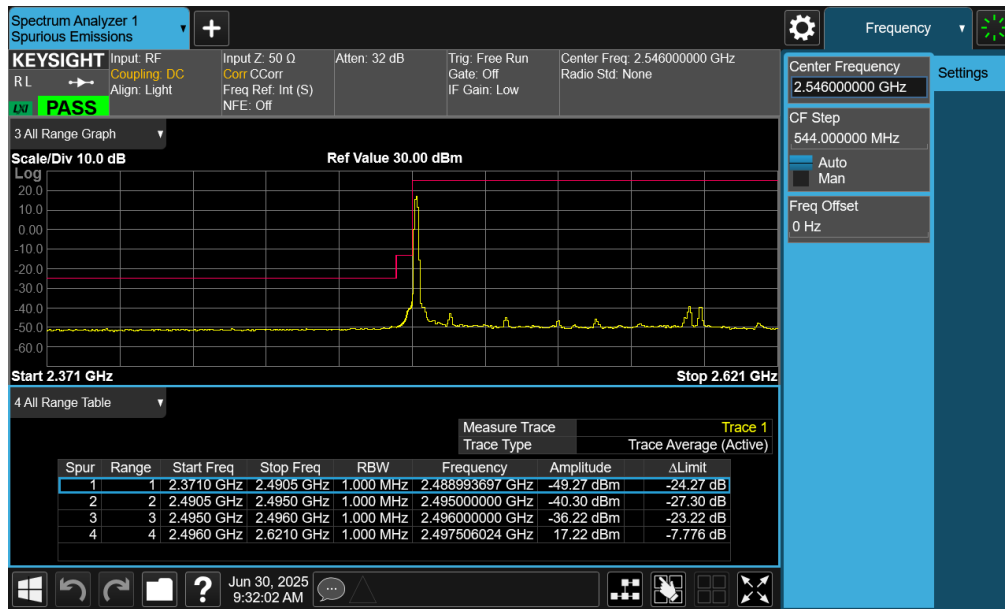
Plot 7-154. Lower ACP Plot (NR Band n41 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)



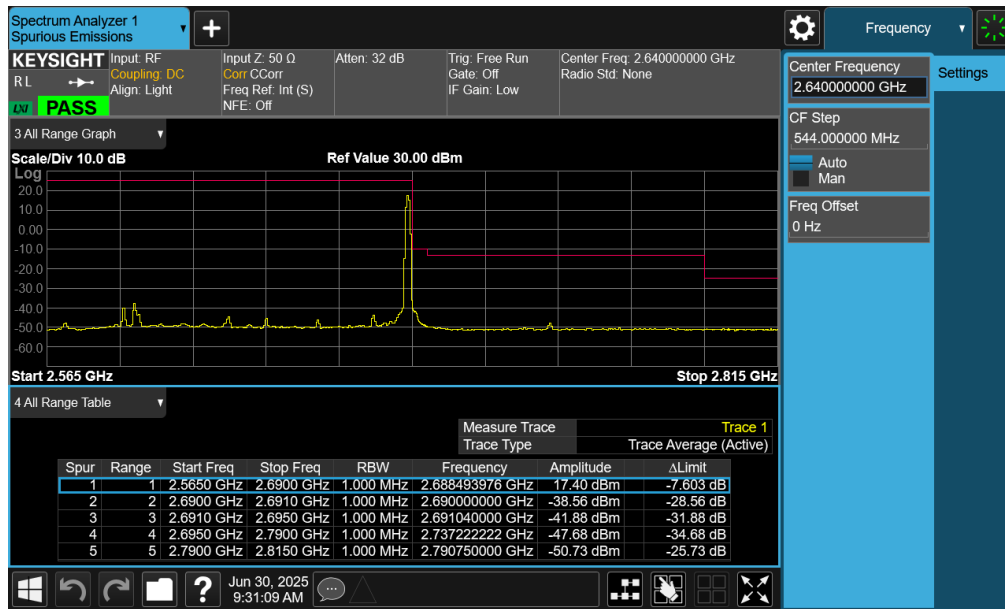
Plot 7-155. Upper ACP Plot (NR Band n41 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 PC3 – Ant2



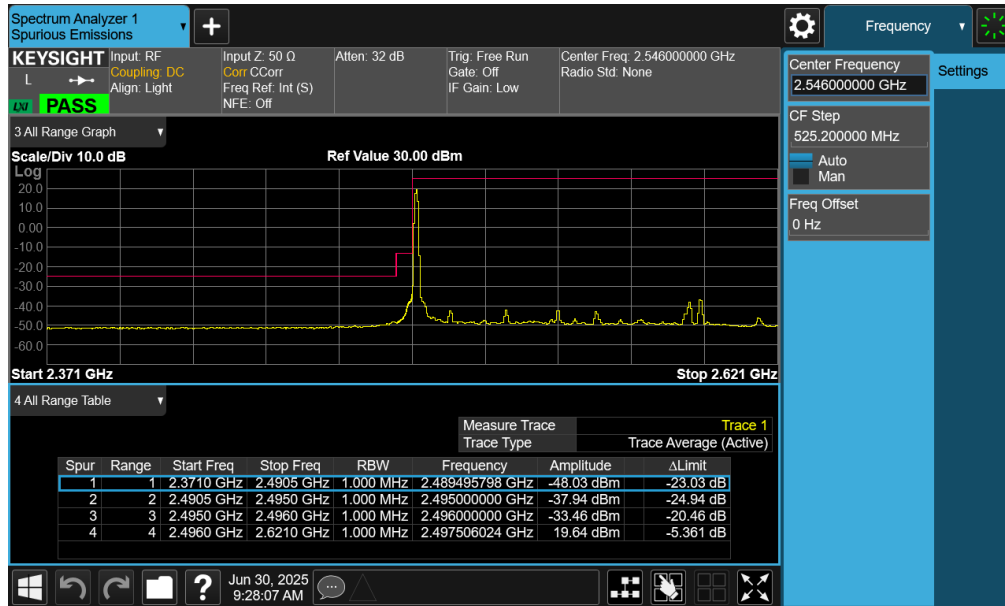
Plot 7-156. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – 1 RB - Ant2)



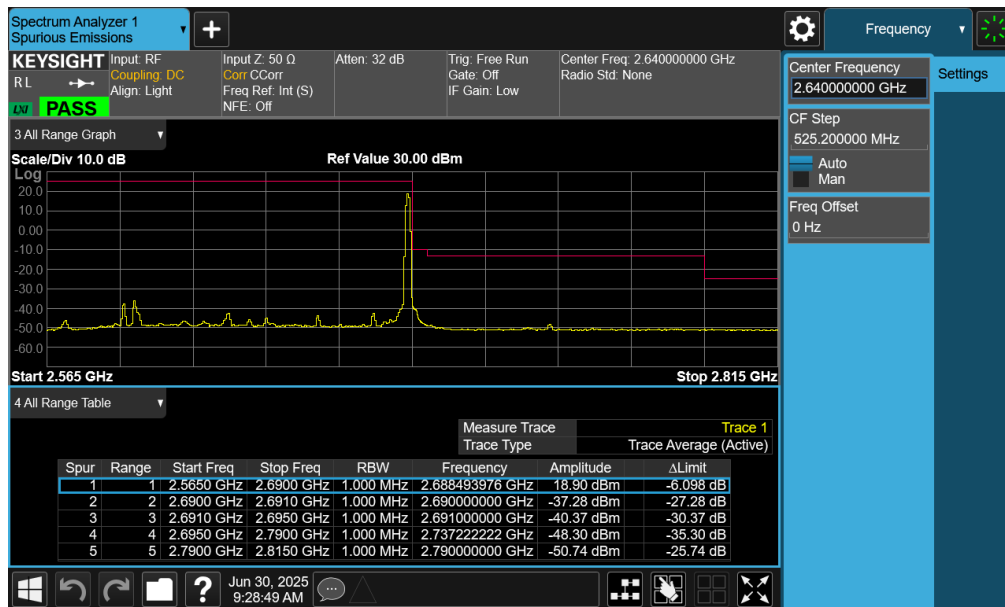
Plot 7-157. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – 1 RB - Ant2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 PC3 – Ant3



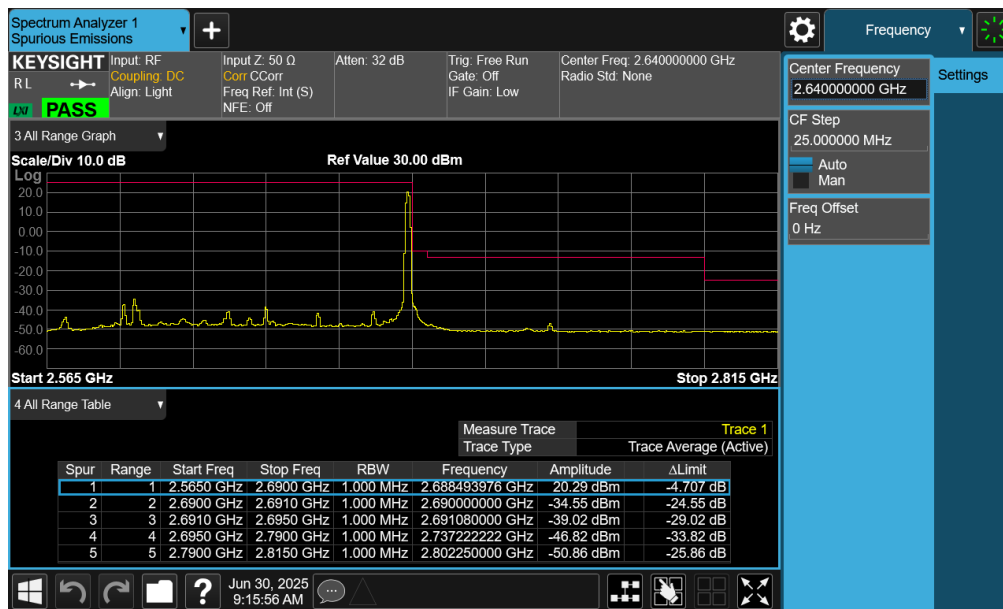
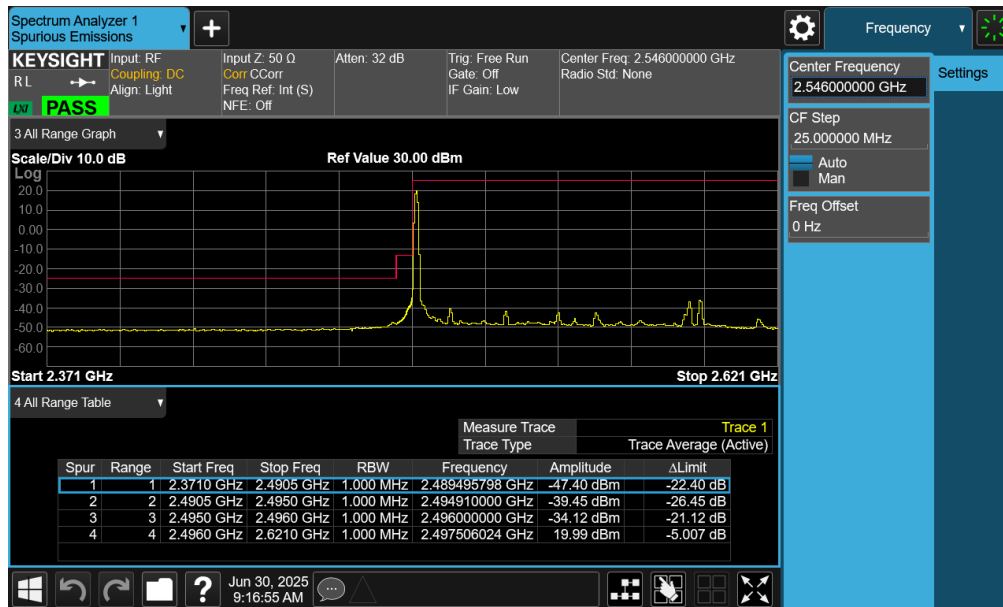
Plot 7-158. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – 1 RB - Ant3)



Plot 7-159. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – 1 RB - Ant3)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 PC3 – Ant4



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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. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". 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 roughly set equal to the measured OBW of the signal for signals with continuous operation. 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.

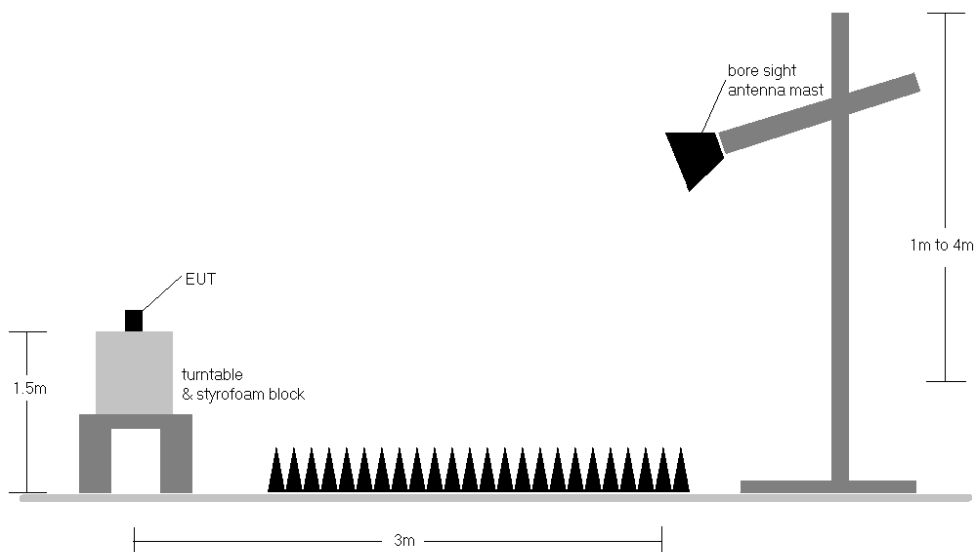


Figure 7-5. Radiated Test Setup >1GHz

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.

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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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	V	231	112	4.15	1 / 0	20.81	24.96	0.313	33.01	-8.05
	QPSK	2593.0	V	241	118	4.14	1 / 99	19.78	23.92	0.247	33.01	-9.09
	QPSK	2680.0	V	231	68	4.49	1 / 99	20.01	24.50	0.282	33.01	-8.51
	16-QAM	2506.0	V	231	112	4.15	1 / 0	20.57	24.72	0.296	33.01	-8.29
	16-QAM	2593.0	V	241	118	4.14	1 / 99	19.71	23.85	0.243	33.01	-9.16
15 MHz	16-QAM	2680.0	V	231	68	4.49	1 / 99	19.90	24.39	0.275	33.01	-8.62
	QPSK	2503.5	V	231	112	4.15	1 / 0	20.88	25.03	0.318	33.01	-7.98
	QPSK	2593.0	V	241	118	4.14	1 / 37	19.94	24.08	0.256	33.01	-8.93
	QPSK	2682.5	V	231	68	4.50	1 / 0	19.95	24.44	0.278	33.01	-8.57
	16-QAM	2503.5	V	231	112	4.15	1 / 0	20.62	24.77	0.300	33.01	-8.24
10 MHz	16-QAM	2593.0	V	241	118	4.14	1 / 0	19.67	23.82	0.241	33.01	-9.19
	16-QAM	2682.5	V	231	68	4.50	1 / 0	19.60	24.10	0.257	33.01	-8.91
	QPSK	2501.0	V	231	112	4.15	1 / 0	21.27	25.42	0.348	33.01	-7.59
	QPSK	2593.0	V	241	118	4.14	1 / 0	19.40	23.55	0.226	33.01	-9.46
	QPSK	2685.0	V	231	68	4.50	1 / 0	20.40	24.90	0.309	33.01	-8.11
5 MHz	16-QAM	2501.0	V	231	112	4.15	1 / 0	20.51	24.66	0.293	33.01	-8.35
	16-QAM	2593.0	V	241	118	4.14	1 / 0	19.76	23.90	0.246	33.01	-9.11
	16-QAM	2685.0	V	231	68	4.50	1 / 0	19.80	24.30	0.269	33.01	-8.71
	QPSK	2498.5	V	231	112	4.14	1 / 0	20.48	24.62	0.290	33.01	-8.39
	QPSK	2593.0	V	241	118	4.14	1 / 24	18.90	23.04	0.202	33.01	-9.97
	QPSK	2687.5	V	231	68	4.50	1 / 12	19.71	24.22	0.264	33.01	-8.79
	16-QAM	2498.5	V	231	112	4.14	1 / 0	19.33	23.47	0.222	33.01	-9.54
	16-QAM	2593.0	V	241	118	4.14	1 / 24	17.82	21.96	0.157	33.01	-11.05
	16-QAM	2687.5	V	231	68	4.50	1 / 12	19.96	24.46	0.280	33.01	-8.55

Table 7-2. EIRP Data (LTE Band 41(PC2) – Ant1)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	V	264	103	4.15	1 / 0	19.72	23.87	0.244	33.01	-9.14
	QPSK	2593.0	V	238	117	4.14	1 / 99	18.82	22.96	0.198	33.01	-10.05
	QPSK	2680.0	V	201	92	4.49	1 / 0	19.53	24.02	0.252	33.01	-8.99
	16-QAM	2506.0	V	264	103	4.15	1 / 0	18.88	23.03	0.201	33.01	-9.98
	16-QAM	2593.0	V	238	117	4.14	1 / 0	17.67	21.81	0.152	33.01	-11.20
15 MHz	16-QAM	2680.0	V	201	92	4.49	1 / 0	18.75	23.24	0.211	33.01	-9.77
	QPSK	2503.5	V	264	103	4.15	1 / 74	19.42	23.57	0.227	33.01	-9.44
	QPSK	2593.0	V	238	117	4.14	1 / 0	18.86	23.00	0.200	33.01	-10.01
	QPSK	2682.5	V	201	92	4.50	1 / 0	19.52	24.01	0.252	33.01	-9.00
	16-QAM	2503.5	V	264	103	4.15	1 / 74	18.76	22.91	0.195	33.01	-10.10
10 MHz	16-QAM	2593.0	V	238	117	4.14	1 / 0	17.68	21.82	0.152	33.01	-11.19
	16-QAM	2682.5	V	201	92	4.50	1 / 0	18.75	23.24	0.211	33.01	-9.77
	QPSK	2501.0	V	264	103	4.15	1 / 49	19.43	23.58	0.228	33.01	-9.43
	QPSK	2593.0	V	238	117	4.14	1 / 0	18.87	23.01	0.200	33.01	-10.00
	QPSK	2685.0	V	201	92	4.50	1 / 0	19.49	23.99	0.251	33.01	-9.02
5 MHz	16-QAM	2501.0	V	264	103	4.15	1 / 49	18.80	22.95	0.197	33.01	-10.06
	16-QAM	2593.0	V	238	117	4.14	1 / 0	17.63	21.77	0.150	33.01	-11.24
	16-QAM	2685.0	V	201	92	4.50	1 / 0	18.74	23.24	0.211	33.01	-9.77
	QPSK	2498.5	V	264	103	4.14	1 / 24	19.42	23.56	0.227	33.01	-9.45
	QPSK	2593.0	V	238	117	4.14	1 / 0	18.86	23.00	0.200	33.01	-10.01
	QPSK	2687.5	V	201	92	4.50	1 / 0	19.48	23.98	0.250	33.01	-9.03
	16-QAM	2498.5	V	264	103	4.14	1 / 24	18.73	22.87	0.194	33.01	-10.14
	16-QAM	2593.0	V	238	117	4.14	1 / 0	17.67	21.81	0.152	33.01	-11.20
	16-QAM	2687.5	V	201	92	4.50	1 / 24	18.71	23.21	0.209	33.01	-9.80

Table 7-3. EIRP Data (LTE Band 41(PC3) – Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit	Margin [dB]
100 MHz	11/2 BPSK	2546.01	H	102	45	4.19	1 / 1	20.47	24.66	0.293	33.01	-8.35
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 136	19.47	23.47	0.222	33.01	-9.54
	11/2 BPSK	2640.00	H	102	344	4.31	1 / 136	19.28	23.59	0.229	33.01	-9.42
	QPSK	2546.01	H	102	45	4.19	1 / 1	20.56	24.75	0.299	33.01	-8.26
	QPSK	2592.99	H	107	24	4.00	1 / 136	19.82	23.82	0.241	33.01	-9.19
	QPSK	2640.00	H	102	344	4.31	1 / 136	18.93	23.24	0.211	33.01	-9.77
	16-QAM	2546.01	H	102	45	4.19	1 / 1	20.15	24.34	0.272	33.01	-8.67
	16-QAM	2592.99	H	107	24	4.00	1 / 136	17.61	21.61	0.145	33.01	-11.40
	16-QAM	2640.00	H	102	344	4.31	1 / 136	16.80	21.11	0.129	33.01	-11.90
	11/2 BPSK	2541.00	H	102	45	4.19	1 / 122	20.53	24.72	0.297	33.01	-8.29
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 122	19.44	23.44	0.221	33.01	-9.57
	11/2 BPSK	2644.98	H	102	344	4.36	1 / 1	19.16	23.51	0.225	33.01	-9.50
90 MHz	QPSK	2541.00	H	102	45	4.19	1 / 122	20.58	24.77	0.300	33.01	-8.24
	QPSK	2592.99	H	107	24	4.00	1 / 122	19.84	23.84	0.242	33.01	-9.17
	QPSK	2644.98	H	102	344	4.36	1 / 1	18.89	23.24	0.211	33.01	-9.77
	16-QAM	2541.00	H	102	45	4.19	1 / 1	20.09	24.28	0.268	33.01	-8.73
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.59	21.59	0.144	33.01	-11.42
	16-QAM	2644.98	H	102	344	4.36	1 / 1	16.76	21.11	0.129	33.01	-11.90
	11/2 BPSK	2536.02	H	102	45	4.19	1 / 108	20.48	24.67	0.293	33.01	-8.34
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 108	19.45	23.45	0.221	33.01	-9.56
	11/2 BPSK	2649.99	H	102	344	4.40	1 / 1	19.13	23.53	0.226	33.01	-9.48
	QPSK	2536.02	H	102	45	4.19	1 / 108	20.56	24.75	0.299	33.01	-8.26
	QPSK	2592.99	H	107	24	4.00	1 / 108	19.82	23.82	0.241	33.01	-9.19
	QPSK	2649.99	H	102	344	4.40	1 / 1	18.84	23.24	0.211	33.01	-9.77
80 MHz	16-QAM	2536.02	H	102	45	4.19	1 / 1	20.15	24.34	0.272	33.01	-8.67
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.61	21.61	0.145	33.01	-11.40
	16-QAM	2649.99	H	102	344	4.40	1 / 1	16.71	21.11	0.129	33.01	-11.90
	11/2 BPSK	2531.01	H	102	45	4.18	1 / 94	20.56	24.74	0.298	33.01	-8.27
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 94	19.40	23.40	0.219	33.01	-9.61
	11/2 BPSK	2655.00	H	102	344	4.42	1 / 1	19.05	23.46	0.222	33.01	-9.55
	QPSK	2531.01	H	102	45	4.18	1 / 94	20.63	24.81	0.303	33.01	-8.20
	QPSK	2592.99	H	107	24	4.00	1 / 94	19.87	23.87	0.244	33.01	-9.14
	QPSK	2655.00	H	102	344	4.42	1 / 1	18.74	23.15	0.207	33.01	-9.86
	16-QAM	2531.01	H	102	45	4.18	1 / 1	20.08	24.26	0.267	33.01	-8.75
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.59	21.59	0.144	33.01	-11.42
	16-QAM	2655.00	H	102	344	4.42	1 / 1	16.63	21.04	0.127	33.01	-11.97
70 MHz	11/2 BPSK	2526.00	H	102	45	4.18	1 / 81	20.62	24.80	0.302	33.01	-8.21
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 81	19.64	23.64	0.231	33.01	-9.37
	11/2 BPSK	2659.98	H	102	344	4.43	1 / 1	18.93	23.36	0.217	33.01	-9.65
	QPSK	2526.00	H	102	45	4.18	1 / 81	20.55	24.73	0.297	33.01	-8.28
	QPSK	2592.99	H	107	24	4.00	1 / 81	19.81	23.81	0.240	33.01	-9.20
	QPSK	2659.98	H	102	344	4.43	1 / 1	18.61	23.04	0.202	33.01	-9.97
	16-QAM	2526.00	H	102	45	4.18	1 / 1	20.16	24.34	0.272	33.01	-8.67
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.62	21.62	0.145	33.01	-11.39
	16-QAM	2659.98	H	102	344	4.43	1 / 1	16.55	20.98	0.125	33.01	-12.03
	11/2 BPSK	2521.02	H	102	45	4.18	1 / 66	20.52	24.70	0.295	33.01	-8.31
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 66	19.40	23.40	0.219	33.01	-9.61
	11/2 BPSK	2664.99	H	102	344	4.45	1 / 1	18.75	23.20	0.209	33.01	-9.81
60 MHz	QPSK	2521.02	H	102	45	4.18	1 / 66	20.56	24.74	0.298	33.01	-8.27
	QPSK	2592.99	H	107	24	4.00	1 / 66	19.75	23.75	0.237	33.01	-9.26
	QPSK	2664.99	H	102	344	4.45	1 / 1	18.45	22.90	0.195	33.01	-10.11
	16-QAM	2521.02	H	102	45	4.18	1 / 1	20.16	24.34	0.272	33.01	-8.67
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.49	21.49	0.141	33.01	-11.52
	16-QAM	2664.99	H	102	344	4.45	1 / 1	16.30	20.75	0.119	33.01	-12.26
	11/2 BPSK	2516.01	H	102	45	4.18	1 / 53	20.67	24.85	0.306	33.01	-8.16
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 53	19.56	23.56	0.227	33.01	-9.45
	11/2 BPSK	2670.00	H	102	344	4.47	1 / 53	18.75	23.21	0.210	33.01	-9.80
	QPSK	2516.01	H	102	45	4.18	1 / 53	20.55	24.73	0.297	33.01	-8.28
	QPSK	2592.99	H	107	24	4.00	1 / 53	19.76	23.76	0.238	33.01	-9.25
	QPSK	2670.00	H	102	344	4.47	1 / 1	18.36	22.82	0.192	33.01	-10.19
50 MHz	16-QAM	2516.01	H	102	45	4.18	1 / 1	20.11	24.29	0.269	33.01	-8.72
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.52	21.52	0.142	33.01	-11.49
	16-QAM	2670.00	H	102	344	4.47	1 / 1	16.19	20.65	0.116	33.01	-12.36
	11/2 BPSK	2511.00	H	102	45	4.18	1 / 76	20.45	24.62	0.290	33.01	-8.39
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 39	19.38	23.38	0.218	33.01	-9.63
	11/2 BPSK	2674.98	H	102	344	4.48	1 / 39	18.53	23.01	0.200	33.01	-10.00
	QPSK	2511.00	H	102	45	4.18	1 / 76	20.48	24.65	0.292	33.01	-8.36
	QPSK	2592.99	H	107	24	4.00	1 / 1	19.66	23.66	0.232	33.01	-9.35
	QPSK	2674.98	H	102	344	4.48	1 / 1	18.20	22.68	0.185	33.01	-10.33
	16-QAM	2511.00	H	102	45	4.18	1 / 1	20.07	24.24	0.266	33.01	-8.77
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.47	21.47	0.140	33.01	-11.54
	16-QAM	2674.98	H	102	344	4.48	1 / 1	16.06	20.54	0.113	33.01	-12.47
40 MHz	11/2 BPSK	2506.02	H	102	45	4.17	1 / 49	20.38	24.55	0.285	33.01	-8.46
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 49	19.29	23.29	0.213	33.01	-9.72
	11/2 BPSK	2679.99	H	102	344	4.50	1 / 1	18.44	22.94	0.197	33.01	-10.07
	QPSK	2506.02	H	102	45	4.17	1 / 1	20.40	24.57	0.287	33.01	-8.44
	QPSK	2592.99	H	107	24	4.00	1 / 49	19.68	23.68	0.233	33.01	-9.33
	QPSK	2679.99	H	102	344	4.50	1 / 1	18.11	22.61	0.183	33.01	-10.40
	16-QAM	2506.02	H	102	45	4.17	1 / 1	20.11	24.28	0.268	33.01	-8.73
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.62	21.62	0.145	33.01	-11.39
	16-QAM	2679.99	H	102	344	4.50	1 / 1	16.08	20.58	0.114	33.01	-12.43
	11/2 BPSK	2503.50	H	102	45	4.17	1 / 36	20.46	24.63	0.290	33.01	-8.38
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 19	19.41	23.41	0.219	33.01	-9.60
	11/2 BPSK	2682.48	H	102	344	4.51	1 / 1	18.41	22.92	0.196	33.01	-10.09
30 MHz	QPSK	2503.50	H	102	45	4.17	1 / 36	20.51	24.68	0.294	33.01	-8.33
	QPSK	2592.99	H	107	24	4.00	1 / 19	19.73	23.73	0.236	33.01	-9.28
	QPSK	2682.48	H	102	344	4.51	1 / 1	18.07	22.58	0.181	33.01	-10.43
	16-QAM	2503.50	H	102	45	4.17	1 / 1	20.11	24.28	0.268	33.01	-8.73
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.45	21.45	0.140	33.01	-11.56
	16-QAM	2682.48	H	102	344	4.51	1 / 1	15.91	20.42	0.110	33.01	-12.59
	11/2 BPSK	2501.01	H	102	45	4.17	1 / 22	20.53	24.70	0.295	33.01	-8.31
	11/2 BPSK	2592.99	H	107	24	4.00	1 / 1	19.45	23.45	0.221	33.01	-9.56
	11/2 BPSK	2685.00	H	102	344	4.52	1 / 12	18.39	22.91	0.196	33.01	-10.10
	QPSK	2501.01	H	102	45	4.17	1 / 1	20.61	24.78	0.301	33.01	-8.23
	QPSK	2592.99	H	107	24	4.00	1 / 1	19.86	23.86	0.243	33.01	-9.15
	QPSK	2685.00	H	102	344	4.52	1 / 1	18.05	22.57	0.181	33.01	-10.44
10 MHz	16-QAM	2501.01	H	102	45	4.17	1 / 1	20.36	24.53	0.284	33.01	-8.48
	16-QAM	2592.99	H	107	24	4.00	1 / 1	17.77	21.77	0.150	33.01	-11.24
	16-QAM	2685.00	H	102	344	4.52	1 / 1	16.07	20.59	0.115	33.01	-12.42
	QPSK (OF-CDM)	2546.01	H	112	22	4.00	1 / 271	17.73	21.73	0.149	33.01	-11.28

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.01	H	149	243	4.19	1 / 271	13.20	17.39	0.055	33.01	-15.62
	$\pi/2$ BPSK	2592.99	H	152	242	4.00	1 / 136	13.39	17.39	0.055	33.01	-15.62
	$\pi/2$ BPSK	2640.00	H	146	243	4.31	1 / 1	13.73	18.04	0.064	33.01	-14.97
	QPSK	2546.01	H	149	243	4.19	1 / 271	13.42	17.61	0.058	33.01	-15.40
	QPSK	2592.99	H	152	242	4.00	1 / 136	13.36	17.36	0.054	33.01	-15.65
	QPSK	2640.00	H	146	243	4.31	1 / 1	13.79	18.10	0.065	33.01	-14.91
	16-QAM	2546.01	H	149	243	4.19	1 / 271	13.44	17.63	0.058	33.01	-15.38
	16-QAM	2592.99	H	152	242	4.00	1 / 136	13.65	17.65	0.058	33.01	-15.36
100 MHz	16-QAM	2640.00	H	146	243	4.31	1 / 1	13.75	18.06	0.064	33.01	-14.95
100 MHz	QPSK (CP-OFDM)	2640.00	H	146	243	4.31	1 / 1	13.47	17.78	0.060	33.01	-15.23

Table 7-5. EIRP Data (NR Band n41(PC3) – Ant2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.01	H	155	260	4.19	1 / 1	14.42	18.61	0.073	33.01	-14.40
	$\pi/2$ BPSK	2592.99	H	185	266	4.00	1 / 1	14.40	18.40	0.069	33.01	-14.61
	$\pi/2$ BPSK	2640.00	H	140	274	4.31	1 / 271	15.72	20.03	0.101	33.01	-12.98
	QPSK	2546.01	H	155	260	4.19	1 / 1	14.43	18.62	0.073	33.01	-14.39
	QPSK	2592.99	H	185	266	4.00	1 / 1	14.33	18.33	0.068	33.01	-14.68
	QPSK	2640.00	H	140	274	4.31	1 / 271	15.87	20.18	0.104	33.01	-12.83
	16-QAM	2546.01	H	155	260	4.19	1 / 1	13.84	18.03	0.064	33.01	-14.98
	16-QAM	2592.99	H	185	266	4.00	1 / 1	13.87	17.87	0.061	33.01	-15.14
100 MHz	16-QAM	2640.00	H	140	274	4.31	1 / 271	15.53	19.84	0.096	33.01	-13.17
100 MHz	QPSK (CP-OFDM)	2640.00	H	140	274	4.31	1 / 271	15.61	19.92	0.098	33.01	-13.09

Table 7-6. EIRP Data (NR Band n41(PC3) – Ant3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.01	V	152	276	4.13	1 / 136	10.96	15.09	0.032	33.01	-17.92
	$\pi/2$ BPSK	2592.99	V	124	223	4.14	1 / 271	12.27	16.41	0.044	33.01	-16.60
	$\pi/2$ BPSK	2640.00	V	126	221	4.39	1 / 271	14.21	18.60	0.072	33.01	-14.41
	QPSK	2546.01	V	152	276	4.13	1 / 136	11.11	15.24	0.033	33.01	-17.77
	QPSK	2592.99	V	124	223	4.14	1 / 271	12.38	16.52	0.045	33.01	-16.49
	QPSK	2640.00	V	126	221	4.39	1 / 271	14.43	18.82	0.076	33.01	-14.19
	16-QAM	2546.01	V	152	276	4.13	1 / 136	10.27	14.40	0.028	33.01	-18.61
	16-QAM	2592.99	V	124	223	4.14	1 / 271	11.45	15.59	0.036	33.01	-17.42
100 MHz	16-QAM	2640.00	V	126	221	4.39	1 / 271	13.68	18.07	0.064	33.01	-14.94
100 MHz	QPSK (CP-OFDM)	2640.00	V	126	221	4.39	1 / 271	13.07	17.46	0.056	33.01	-15.55

Table 7-7. EIRP Data (NR Band n41(PC3) – Ant4)

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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 = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

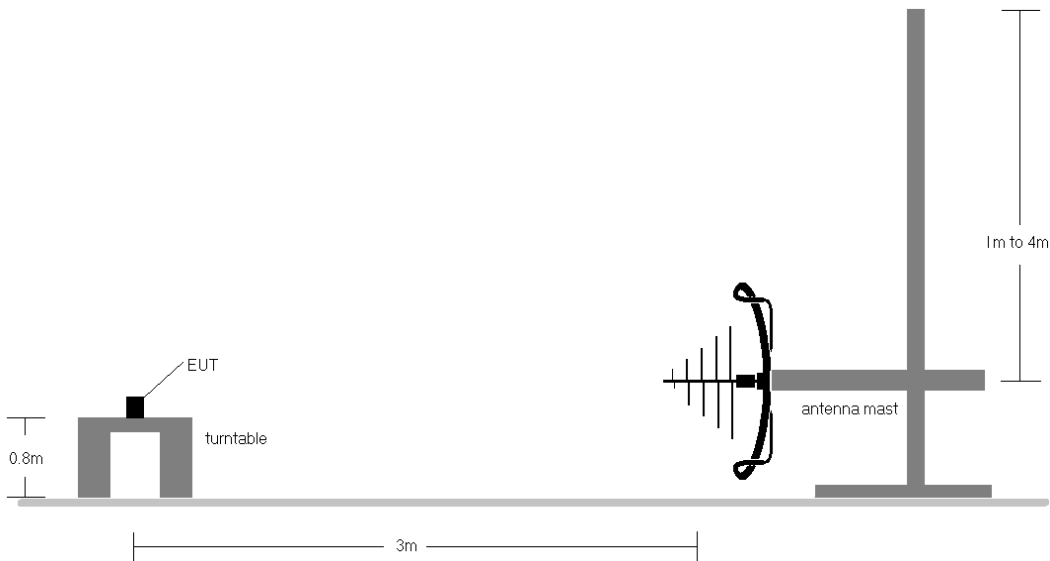


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

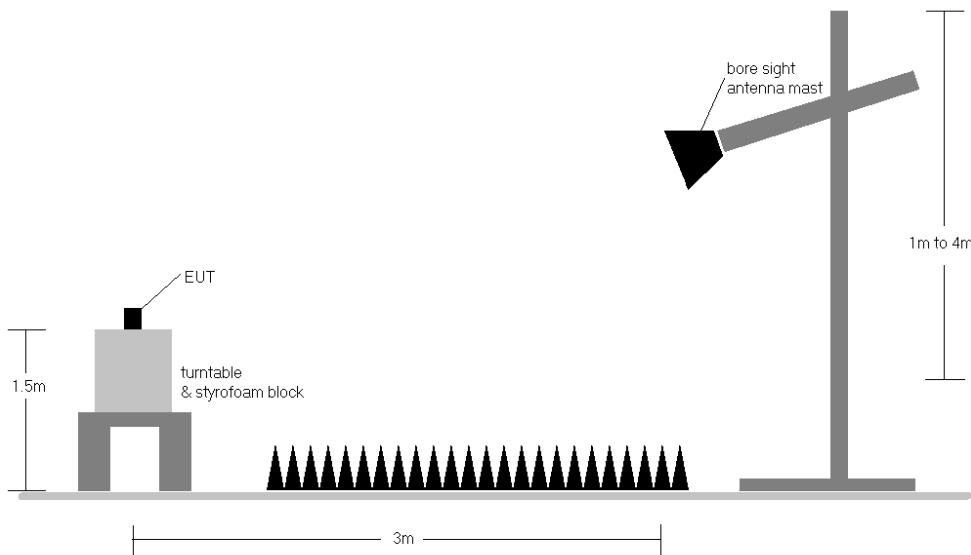


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

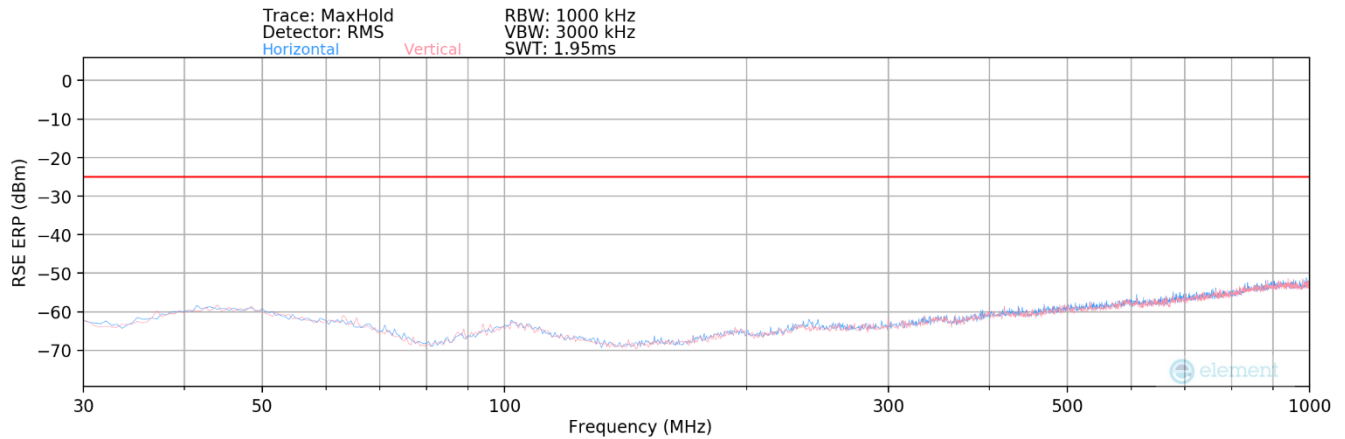
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Test Notes

- 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) $\text{ElRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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.

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LTE Band 41(PC2) – Ant1

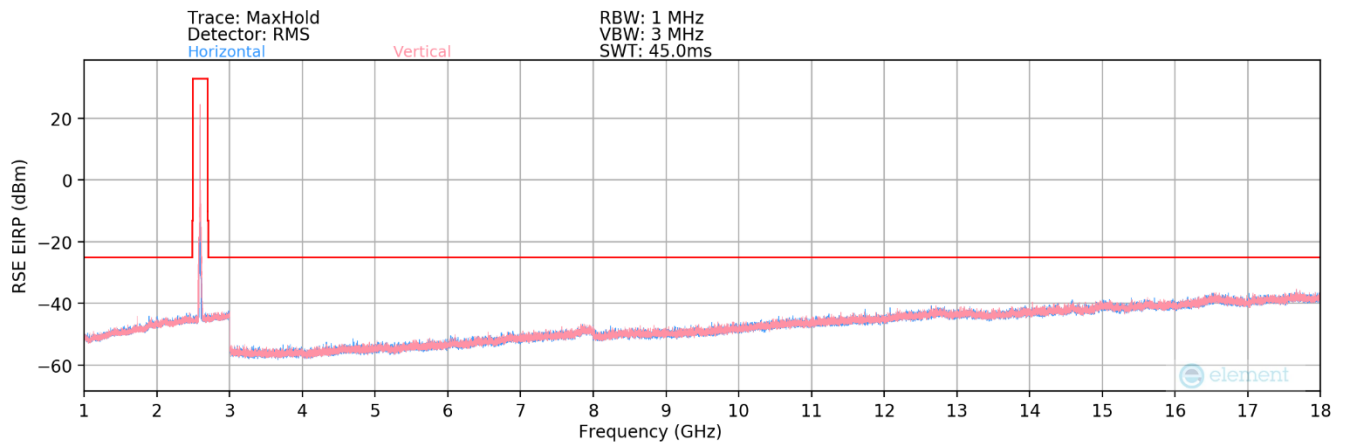


Plot 7-162. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

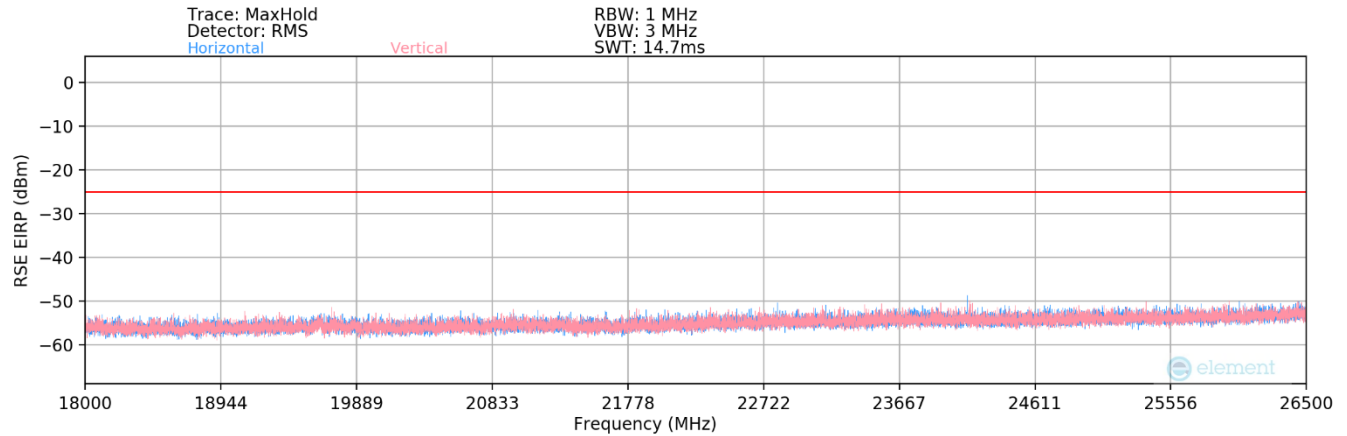
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
629.72	H	-	-	-75.93	-4.75	26.32	-71.09	-25.00	-46.09

Table 7-8. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant1)



Plot 7-163. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)

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Plot 7-164. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / 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]
5012.00	H	-	-	-71.76	10.12	45.36	-49.90	-25.00	-24.90
7518.00	H	-	-	-72.74	15.55	49.81	-45.45	-25.00	-20.45
10024.00	H	-	-	-73.89	18.98	52.09	-43.17	-25.00	-18.17

Table 7-9. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / 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]
5186.00	H	232	183	-70.62	10.38	46.76	-48.50	-25.00	-23.50
7779.00	H	-	-	-73.06	15.44	49.38	-45.87	-25.00	-20.87
10372.00	H	-	-	-74.40	19.53	52.13	-43.13	-25.00	-18.13
12965.00	H	-	-	-75.13	24.45	56.32	-38.94	-25.00	-13.94

Table 7-10. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant1)

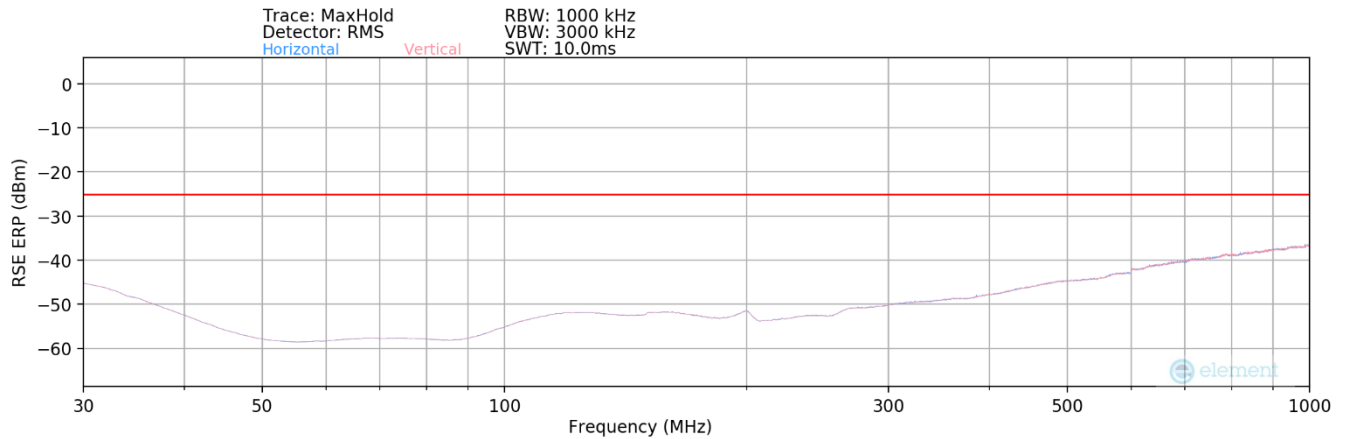
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

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]
5360.00	H	242	248	-67.90	10.79	49.89	-45.37	-25.00	-20.37
8040.00	H	-	-	-73.55	16.08	49.53	-45.73	-25.00	-20.73
10720.00	H	-	-	-74.40	20.23	52.83	-42.42	-25.00	-17.42
13400.00	H	-	-	-74.83	24.88	57.05	-38.20	-25.00	-13.20

Table 7-11. Radiated Spurious Data (LTE Band 41(PC2) – High Channel – Ant1)

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NR Band n41 PC3 – Ant1

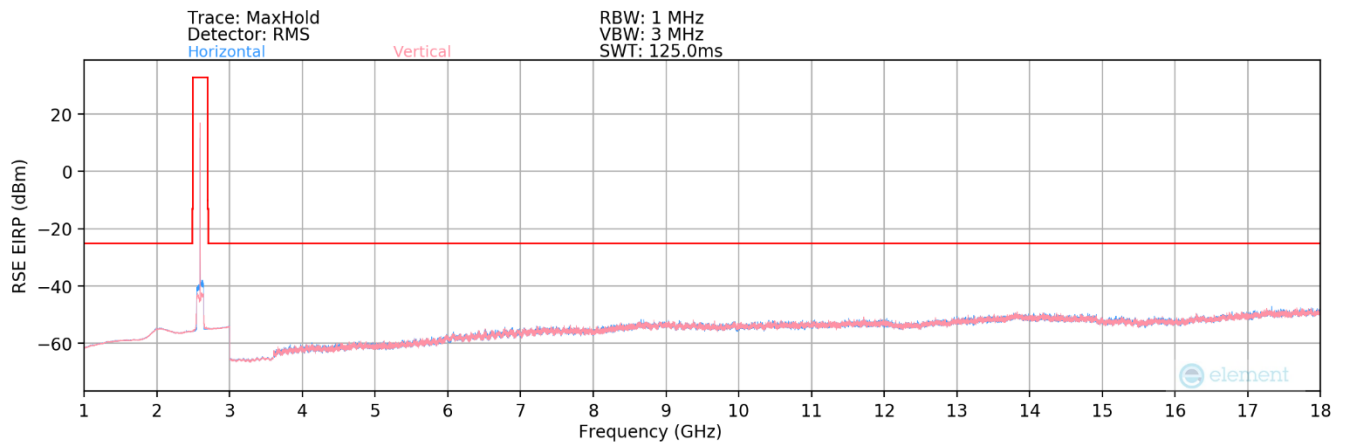


Plot 7-165. Radiated Spurious Plot (NR Band n41 – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

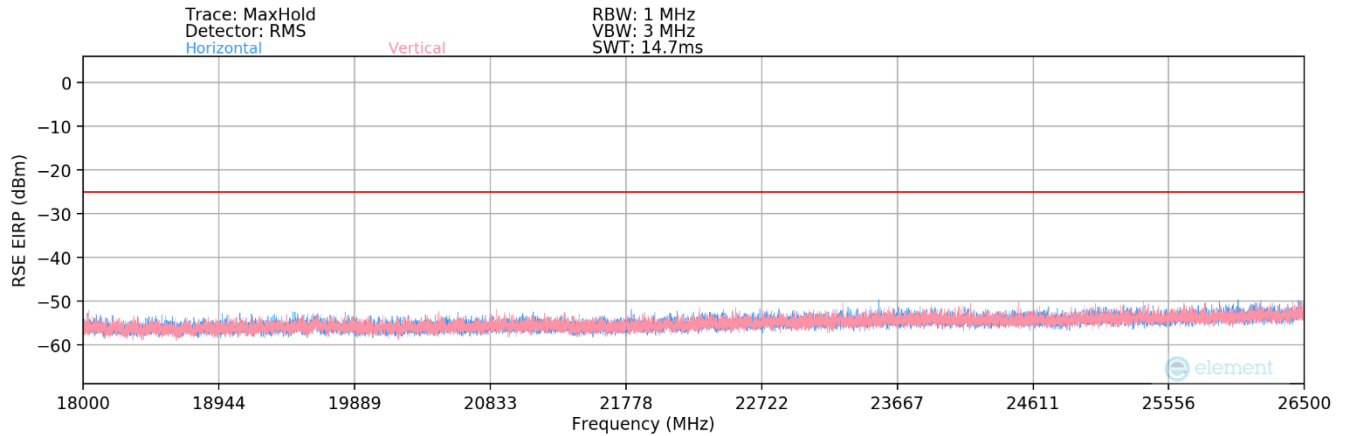
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
776.90	H	-	-	-91.07	29.70	45.63	-51.78	-25.00	-26.78

Table 7-12. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant1)



Plot 7-166. Radiated Spurious Plot (NR Band n41 – Ant1)

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Plot 7-167. Radiated Spurious Plot (NR Band n41 – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
5092.02	H	187	292	-73.29	3.17	36.88	-58.38	-25.00	-33.38
7638.03	H	-	-	-77.24	9.72	39.48	-55.78	-25.00	-30.78
10184.04	H	-	-	-78.23	12.49	41.26	-54.00	-25.00	-29.00
12730.05	H	-	-	-78.72	13.59	41.87	-53.38	-25.00	-28.38

Table 7-13. Radiated Spurious Data (NR Band n41 – Low Channel – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
5185.98	H	223	248	-71.78	3.36	38.58	-56.67	-25.00	-31.67
7778.97	H	-	-	-76.45	8.63	39.18	-56.08	-25.00	-31.08
10371.96	H	-	-	-78.16	12.21	41.05	-54.20	-25.00	-29.20
12964.95	H	-	-	-79.19	14.39	42.20	-53.06	-25.00	-28.06

Table 7-14. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant1)

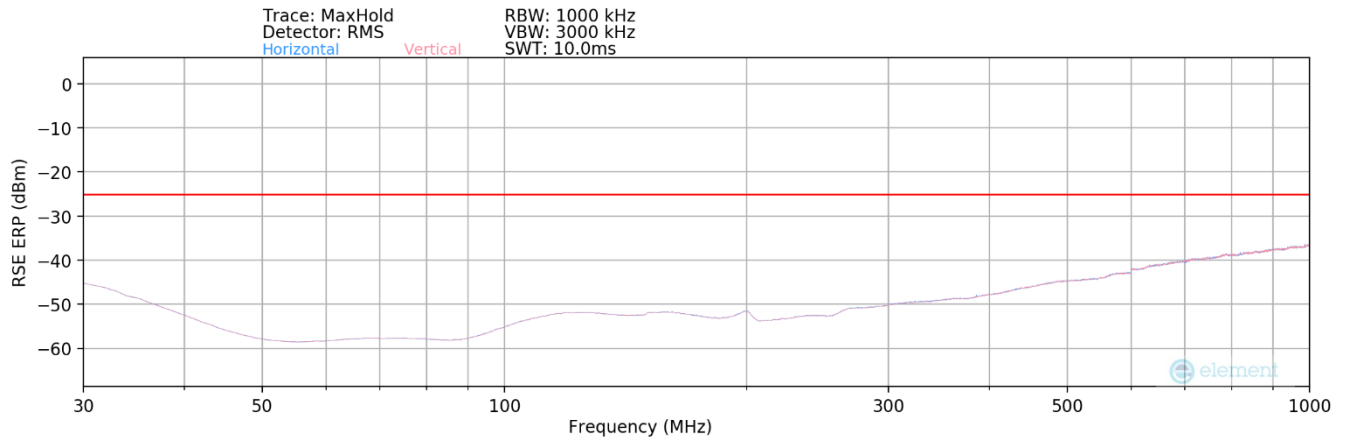
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

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]
5280.00	H	192	290	-71.21	3.28	39.07	-56.19	-25.00	-31.19
7920.00	H	-	-	-77.35	9.67	39.32	-55.94	-25.00	-30.94
10560.00	H	-	-	-78.63	12.67	41.04	-54.21	-25.00	-29.21
13200.00	H	-	-	-79.21	14.94	42.73	-52.53	-25.00	-27.53

Table 7-15. Radiated Spurious Data (NR Band n41 – High Channel – Ant1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 PC3 – Ant2

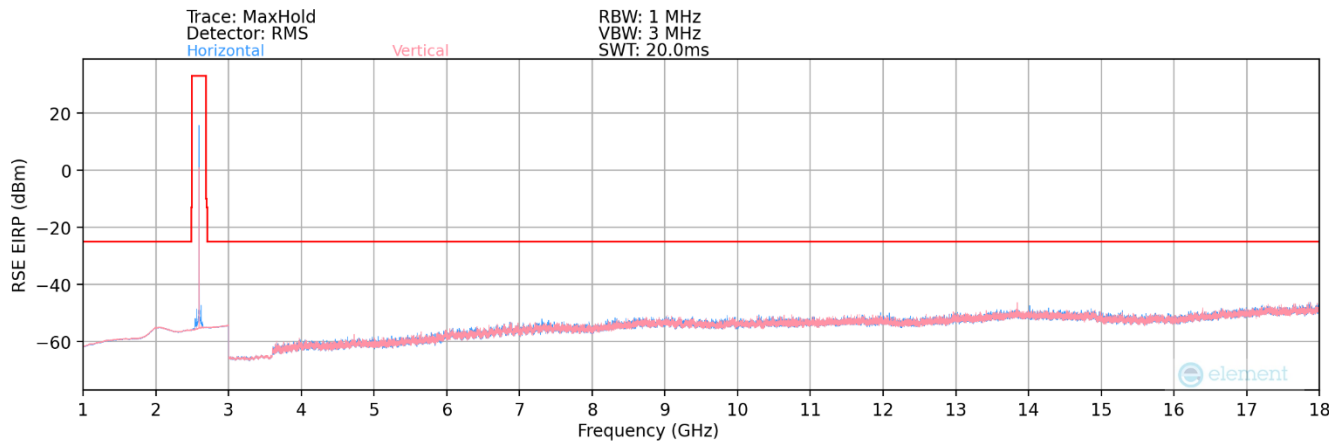


Plot 7-168. Radiated Spurious Plot (NR Band n41 – Ant2)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

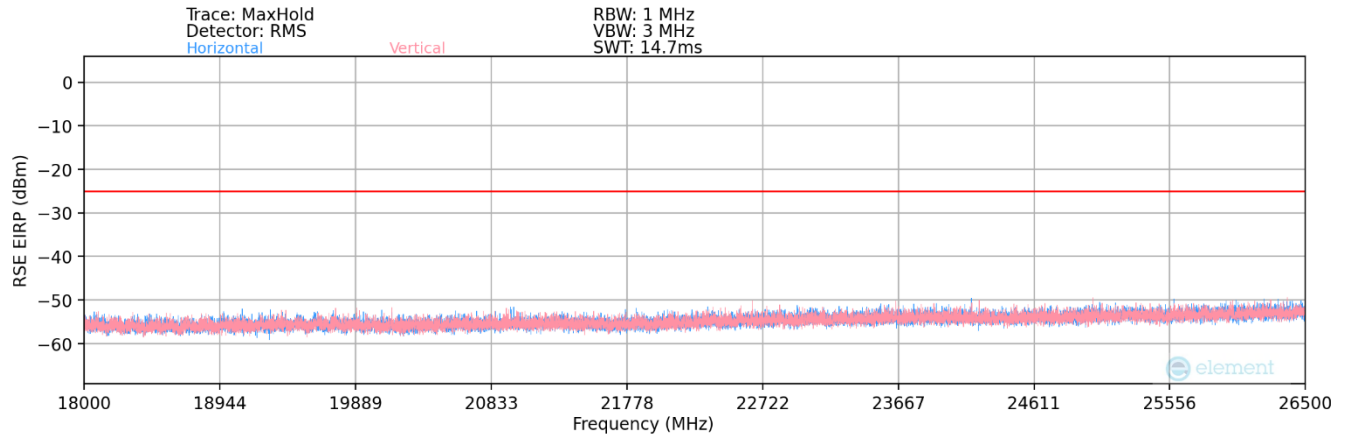
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
77.96	V	-	-	-72.08	14.60	49.52	-47.89	-25.00	-22.89
175.80	V	-	-	-73.92	18.84	51.92	-45.49	-25.00	-20.49
401.84	V	-	-	-76.11	23.40	54.29	-43.12	-25.00	-18.12

Table 7-16. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant2)



Plot 7-169. Radiated Spurious Plot (NR Band n41 – Ant2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-170. Radiated Spurious Plot (NR Band n41 – Ant2)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
5092.02	V	335	95	-77.72	3.17	32.45	-62.81	-25.00	-37.81
7638.03	V	346	120	-76.14	9.72	40.58	-54.68	-25.00	-29.68
10184.04	V	-	-	-80.44	12.49	39.05	-56.21	-25.00	-31.21
12730.05	V	-	-	-80.88	13.59	39.71	-55.54	-25.00	-30.54
15276.06	V	-	-	-80.87	14.37	40.50	-54.76	-25.00	-29.76

Table 7-17. Radiated Spurious Data (NR Band n41 – Low Channel – Ant2)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
5185.98	V	-	-	-79.53	3.36	30.83	-64.42	-25.00	-39.42
7778.97	V	329	92	-71.22	8.63	44.41	-50.85	-25.00	-25.85
10371.96	V	-	-	-80.44	12.21	38.77	-56.48	-25.00	-31.48
12964.95	V	-	-	-80.92	14.39	40.47	-54.79	-25.00	-29.79
15557.94	V	-	-	-80.50	13.63	40.13	-55.13	-25.00	-30.13

Table 7-18. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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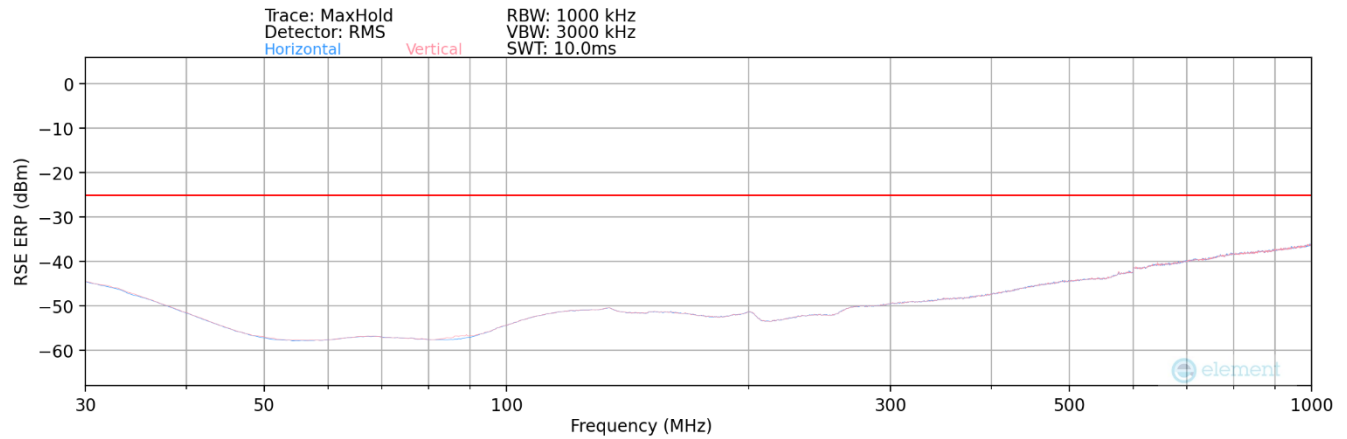
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

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]
5280.00	V	-	-	-77.95	3.28	32.33	-62.93	-25.00	-37.93
7920.00	V	337	89	-74.82	9.67	41.85	-53.41	-25.00	-28.41
10560.00	V	-	-	-80.68	12.67	38.99	-56.26	-25.00	-31.26
13200.00	V	-	-	-81.24	14.94	40.70	-54.56	-25.00	-29.56
15840.00	V	-	-	-81.19	14.75	40.56	-54.70	-25.00	-29.70

Table 7-19. Radiated Spurious Data (NR Band n41 – High Channel – Ant2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 PC3 – Ant3

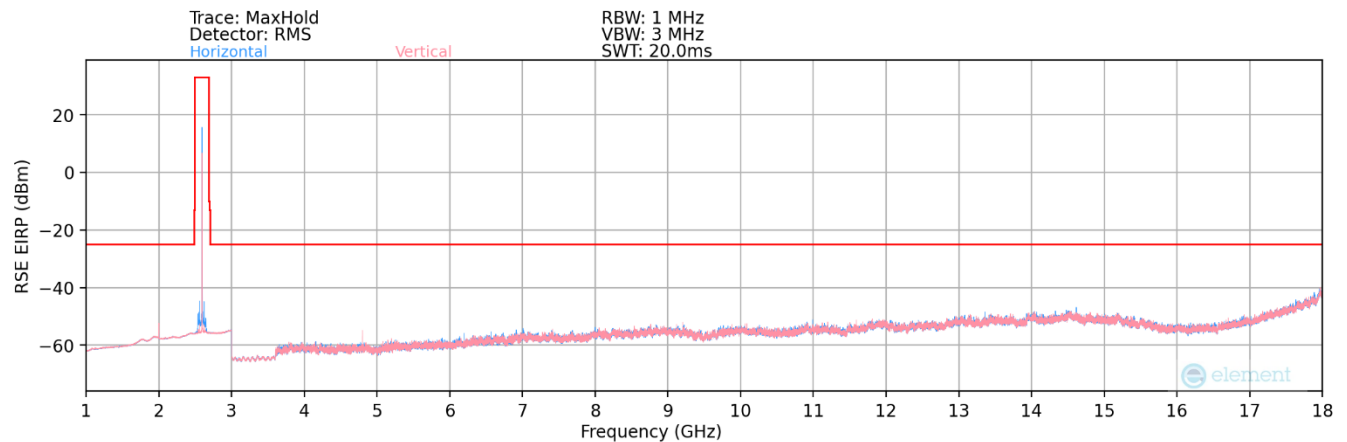


Plot 7-171. Radiated Spurious Plot (NR Band n41 – Ant3)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

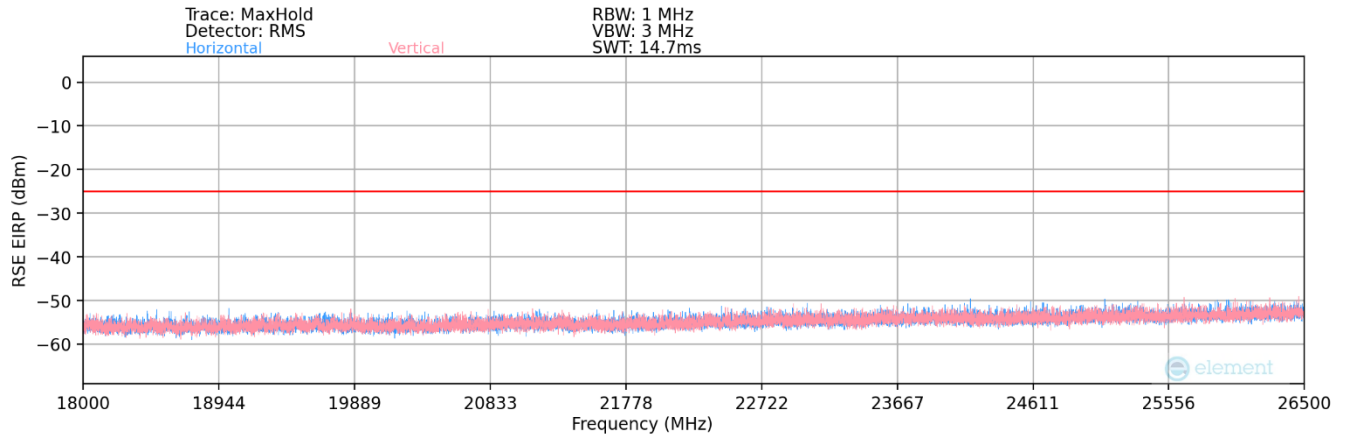
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
89.26	V	-	-	-83.30	14.48	38.18	-59.23	-25.00	-34.23
188.62	V	-	-	-83.91	18.12	41.21	-56.20	-25.00	-31.20
422.91	V	-	-	-83.91	23.94	47.03	-50.37	-25.00	-25.37

Table 7-20. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant3)



Plot 7-172. Radiated Spurious Plot (NR Band n41 – Ant3)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-173. Radiated Spurious Plot (NR Band n41 – Ant3)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
5092.02	V	384	130	-73.58	-0.12	33.30	-61.95	-25.00	-36.95
7638.03	V	269	67	-74.68	4.45	36.77	-58.49	-25.00	-33.49
10184.04	V	-	-	-77.69	7.82	37.13	-58.13	-25.00	-33.13
12730.05	V	-	-	-77.77	10.25	39.48	-55.77	-25.00	-30.77
15276.06	V	-	-	-77.57	11.31	40.74	-54.51	-25.00	-29.51
17822.07	V	-	-	-78.05	17.77	46.72	-48.54	-25.00	-23.54

Table 7-21. Radiated Spurious Data (NR Band n41 – Low Channel – Ant3)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
5185.98	V	344	139	-73.23	-0.24	33.53	-61.72	-25.00	-36.72
7778.97	V	-	-	-75.70	4.34	35.64	-59.62	-25.00	-34.62
10371.96	V	-	-	-77.80	8.10	37.30	-57.96	-25.00	-32.96
12964.95	V	-	-	-77.48	10.97	40.49	-54.76	-25.00	-29.76
15557.94	V	-	-	-78.09	10.13	39.04	-56.22	-25.00	-31.22

Table 7-22. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant3)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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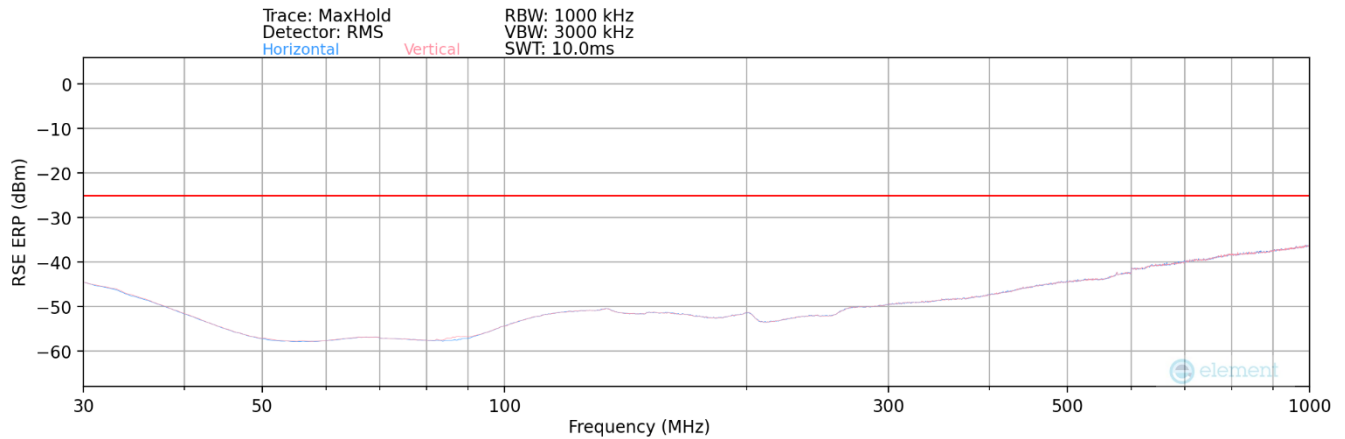
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

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]
5280.00	V	-	-	-74.74	-0.17	32.09	-63.17	-25.00	-38.17
7920.00	V	-	-	-76.17	4.69	35.52	-59.74	-25.00	-34.74
10560.00	V	-	-	-78.29	7.62	36.33	-58.93	-25.00	-33.93
13200.00	V	-	-	-77.93	11.11	40.18	-55.07	-25.00	-30.07

Table 7-23. Radiated Spurious Data (NR Band n41 – High Channel – Ant3)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 PC3 – Ant4

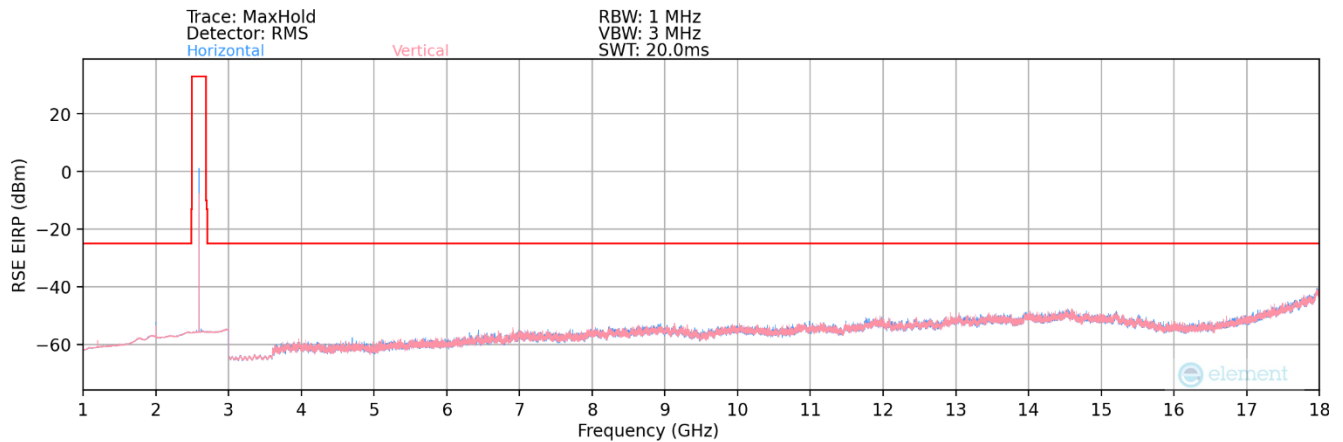


Plot 7-174. Radiated Spurious Plot (NR Band n41 – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

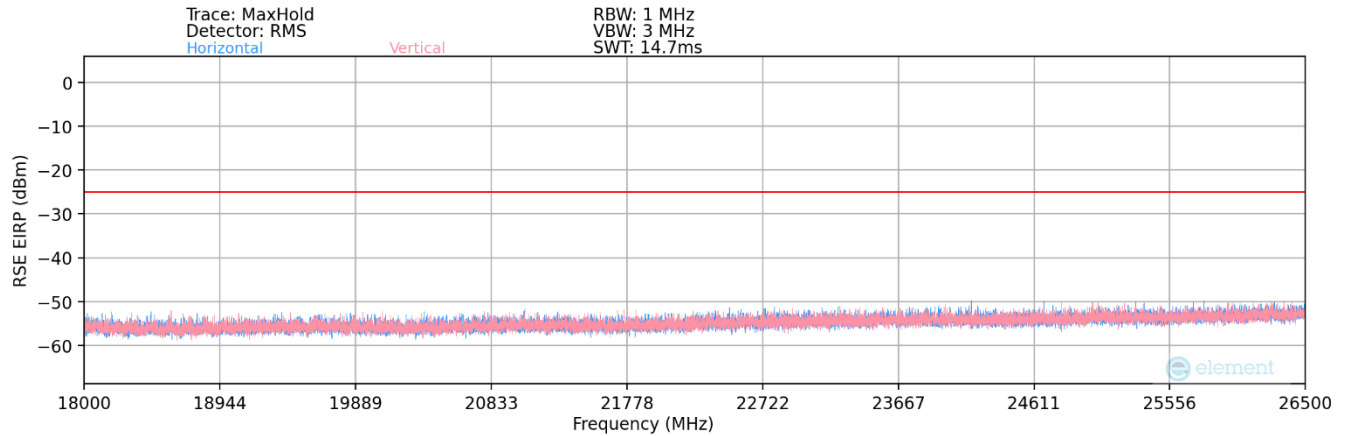
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
93.34	H	-	-	-84.12	15.37	38.25	-59.16	-25.00	-34.16
208.49	H	-	-	-83.99	17.61	40.62	-56.79	-25.00	-31.79
506.16	H	-	-	-83.84	25.78	48.94	-48.47	-25.00	-23.47

Table 7-24. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant4)



Plot 7-175. Radiated Spurious Plot (NR Band n41 – Ant4)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-176. Radiated Spurious Plot (NR Band n41 – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
5092.02	H	-	-	-75.02	-0.12	31.86	-63.39	-25.00	-38.39
7638.03	H	-	-	-76.44	4.45	35.01	-60.25	-25.00	-35.25
10184.04	H	-	-	-77.71	7.82	37.11	-58.15	-25.00	-33.15
12730.05	H	-	-	-77.71	10.25	39.54	-55.71	-25.00	-30.71

Table 7-25. Radiated Spurious Data (NR Band n41 – Low Channel – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
5185.98	H	-	-	-74.96	-0.24	31.80	-63.45	-25.00	-38.45
7778.97	H	-	-	-75.90	4.34	35.44	-59.82	-25.00	-34.82
10371.96	H	-	-	-77.89	8.10	37.21	-58.05	-25.00	-33.05
12964.95	H	-	-	-77.55	10.97	40.42	-54.83	-25.00	-29.83

Table 7-26. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

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]
5280.00	H	-	-	-75.06	-0.17	31.77	-63.49	-25.00	-38.49
7920.00	H	-	-	-76.24	4.69	35.45	-59.81	-25.00	-34.81
10560.00	H	-	-	-78.30	7.62	36.32	-58.94	-25.00	-33.94
13200.00	H	-	-	-77.88	11.11	40.23	-55.02	-25.00	-30.02

Table 7-27. Radiated Spurious Data (NR Band n41 – High Channel – Ant4)

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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

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

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

For Part 27, 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

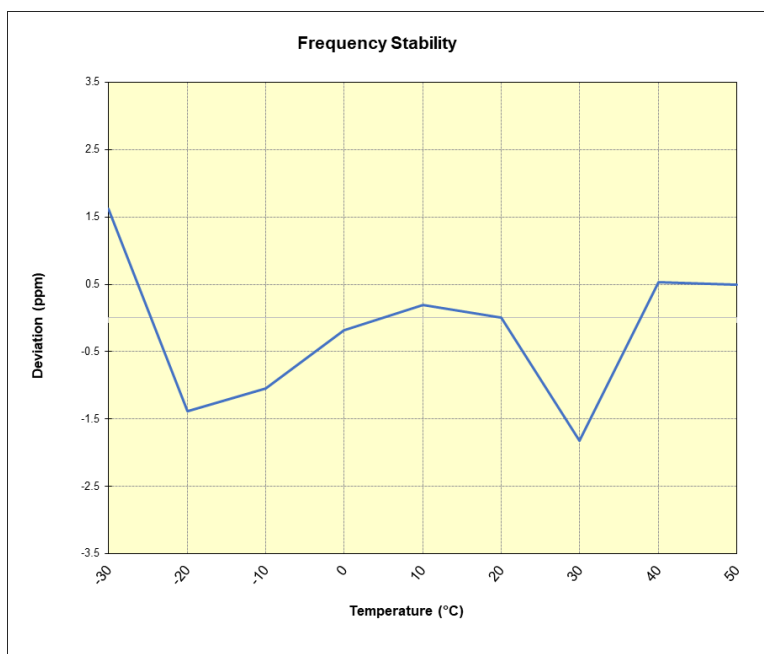
None

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LTE Band 41

LTE Band 41					
		Operating Frequency (Hz):		2,593,000,000	
		Ref. Voltage (VDC):		4.436	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	2,593,104,292	4,202	0.0001621
		- 20	2,593,096,511	-3,579	-0.0001380
		- 10	2,593,097,386	-2,704	-0.0001043
		0	2,593,099,610	-480	-0.0000185
		+ 10	2,593,100,583	493	0.0000190
		+ 20 (Ref)	2,593,100,090	0	0.0000000
		+ 30	2,593,095,376	-4,714	-0.0001818
		+ 40	2,593,101,477	1,387	0.0000535
		+ 50	2,593,101,376	1,286	0.0000496
Battery Endpoint	3.67	+ 20	2,593,100,531	441	0.0000170

Table 7-28. LTE Band 41(PC2) Frequency Stability Data



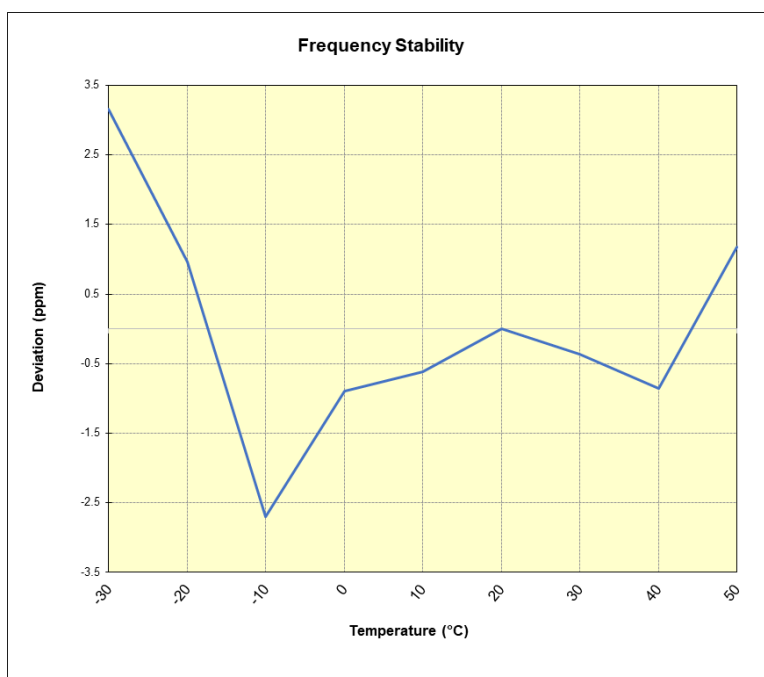
Plot 7-177. LTE Band 41(PC2) Frequency Stability Chart

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41

NR Band n41					
		Operating Frequency (Hz):		2,593,000,000	
		Ref. Voltage (VDC):		4.436	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	2,592,919,934	8,173	0.0003152
		- 20	2,592,914,264	2,503	0.0000965
		- 10	2,592,904,751	-7,011	-0.0002704
		0	2,592,909,445	-2,316	-0.0000893
		+ 10	2,592,910,147	-1,615	-0.0000623
		+ 20 (Ref)	2,592,911,761	0	0.0000000
		+ 30	2,592,910,807	-954	-0.0000368
		+ 40	2,592,909,550	-2,211	-0.0000853
		+ 50	2,592,914,820	3,058	0.0001179
Battery Endpoint	3.713	+ 20	2,592,911,107	-654	-0.0000252

Table 7-29. NR Band n41 Frequency Stability Data



Plot 7-178. NR Band n41 Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMX736B** complies with all the requirements of Part 27 of the FCC rules.

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