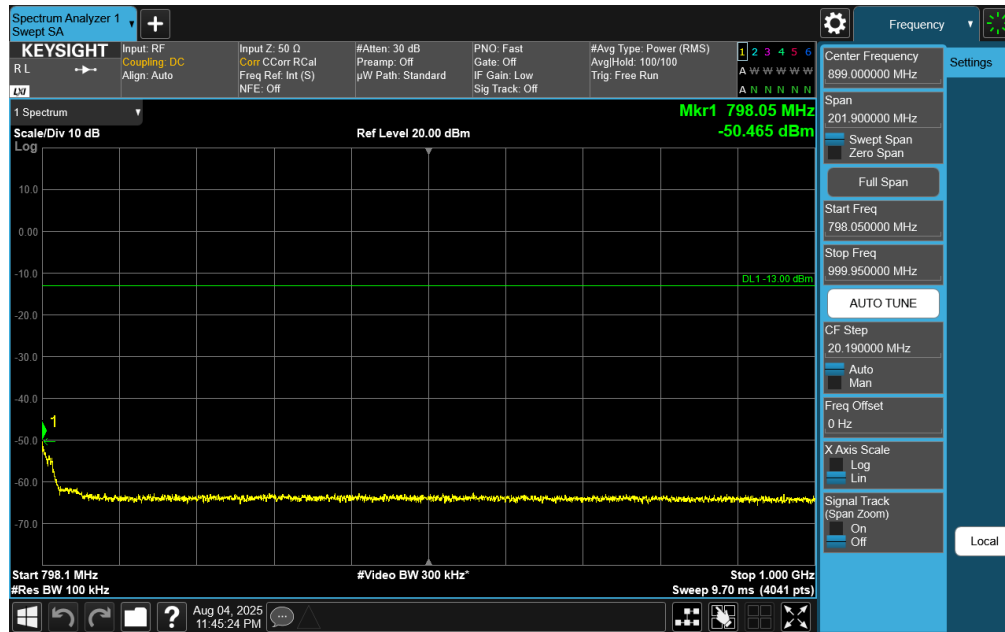
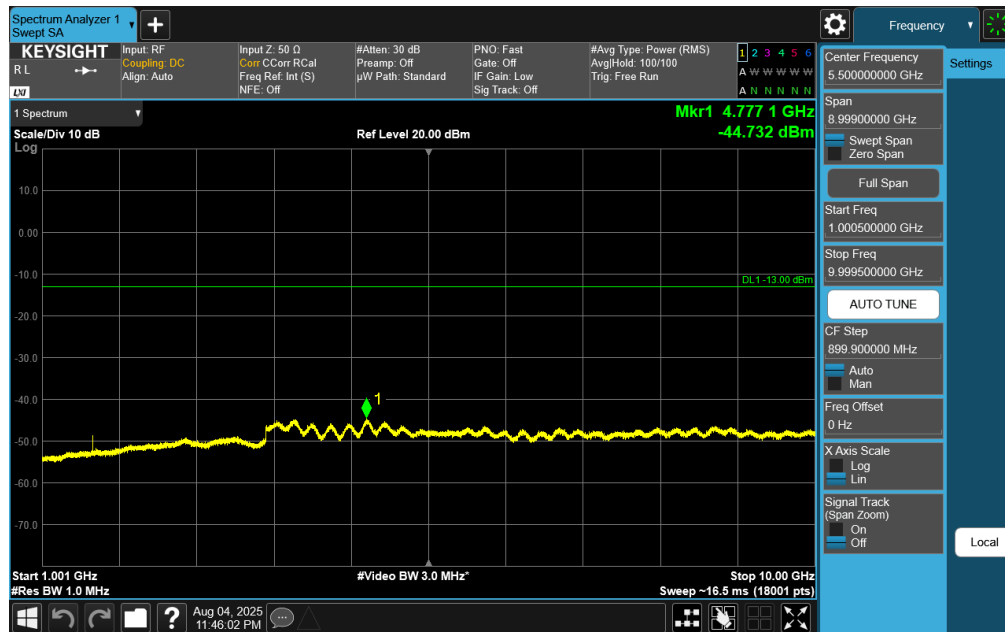




Plot 7-76. Conducted Spurious Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

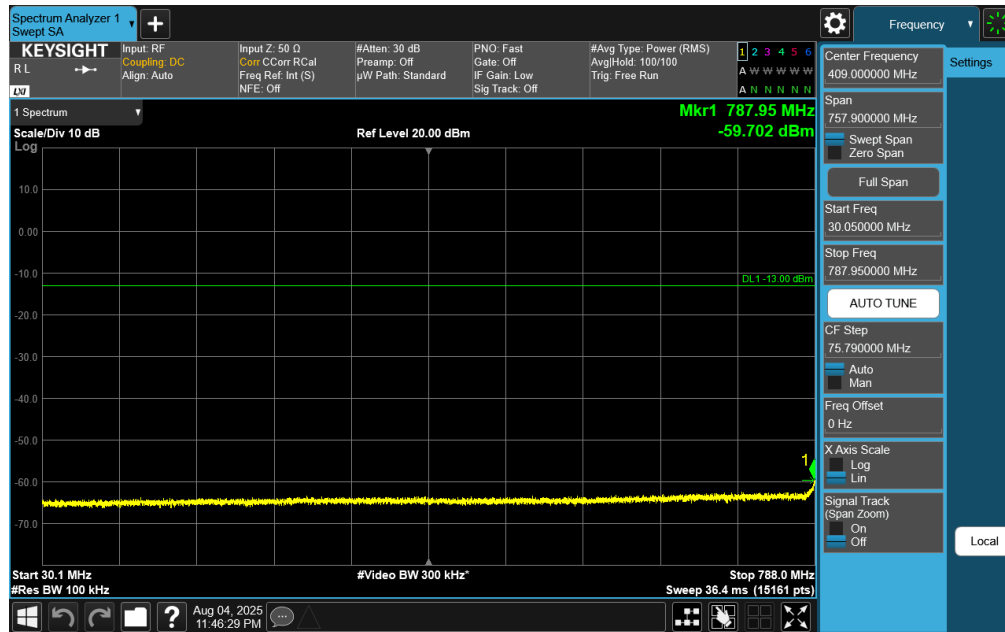


Plot 7-77. Conducted Spurious Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

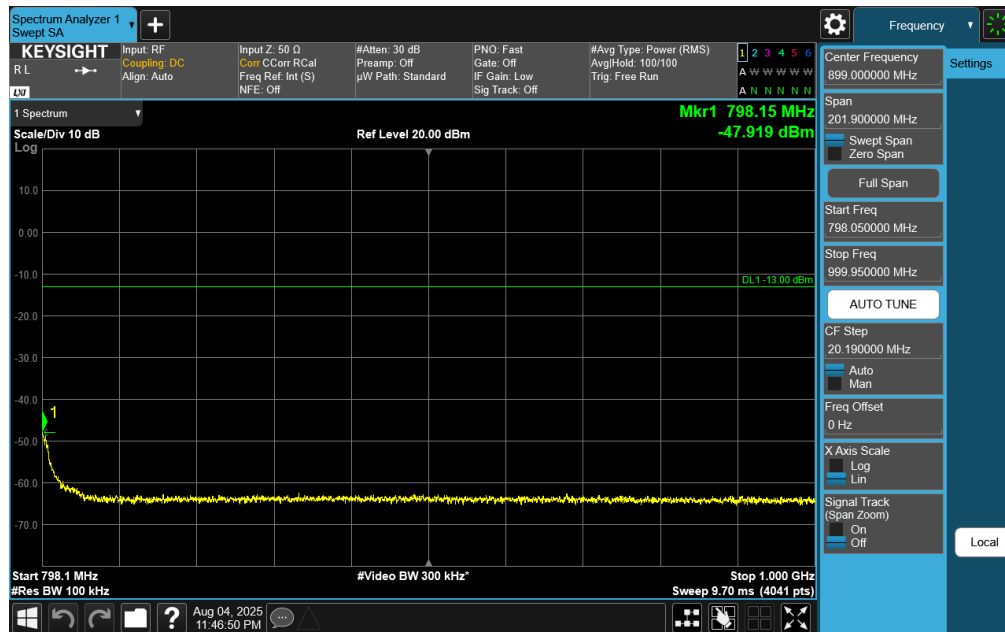
FCC ID: BCGA3460	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-78. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

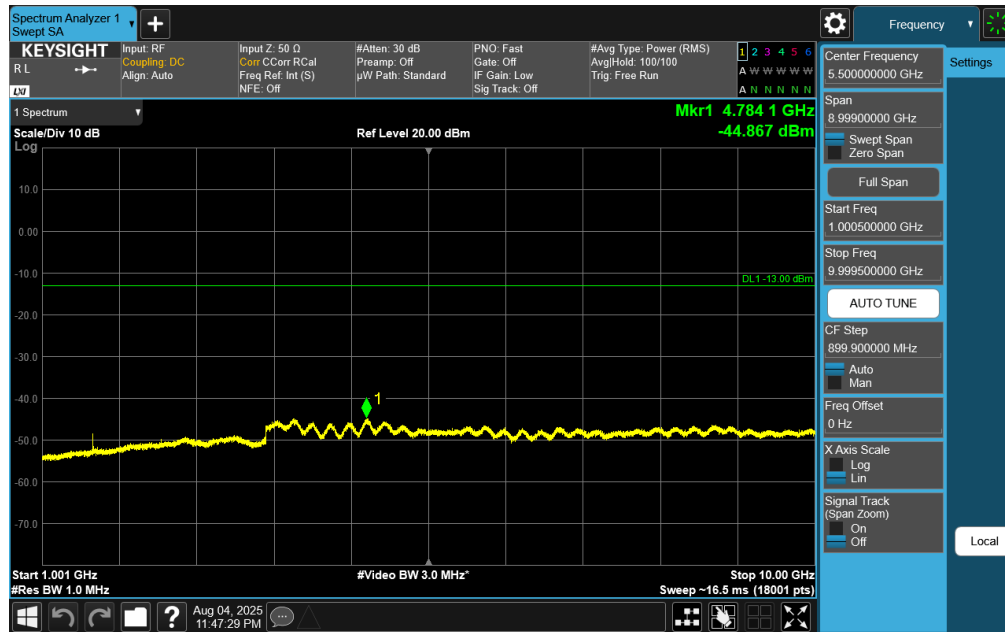


Plot 7-79. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3460	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-80. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3460	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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7.4 Band Edge Emissions at Antenna Terminal

\$2.1051 §90.691(a) §90.543(e)

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. All ports were tested and only the worst case data were reported.

For LTE Band 26 and NR Band n26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is $43 + 10\log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is $50 + 10\log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Span was set large enough so as to capture all out of band emissions near the band edge
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = RMS
5. Trace mode = trace average
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

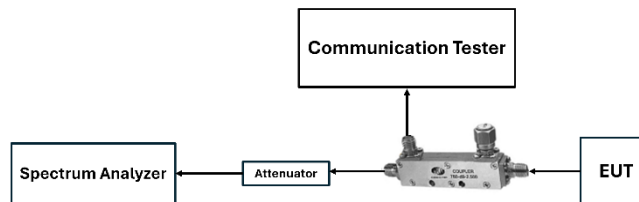


Figure 7-5. LTE Instrument & Measurement Setup

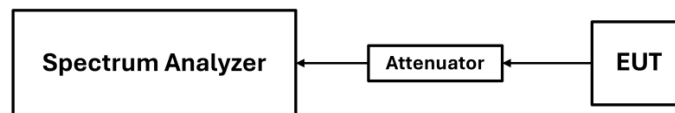


Figure 7-6. FR1 Instrument & Measurement Setup

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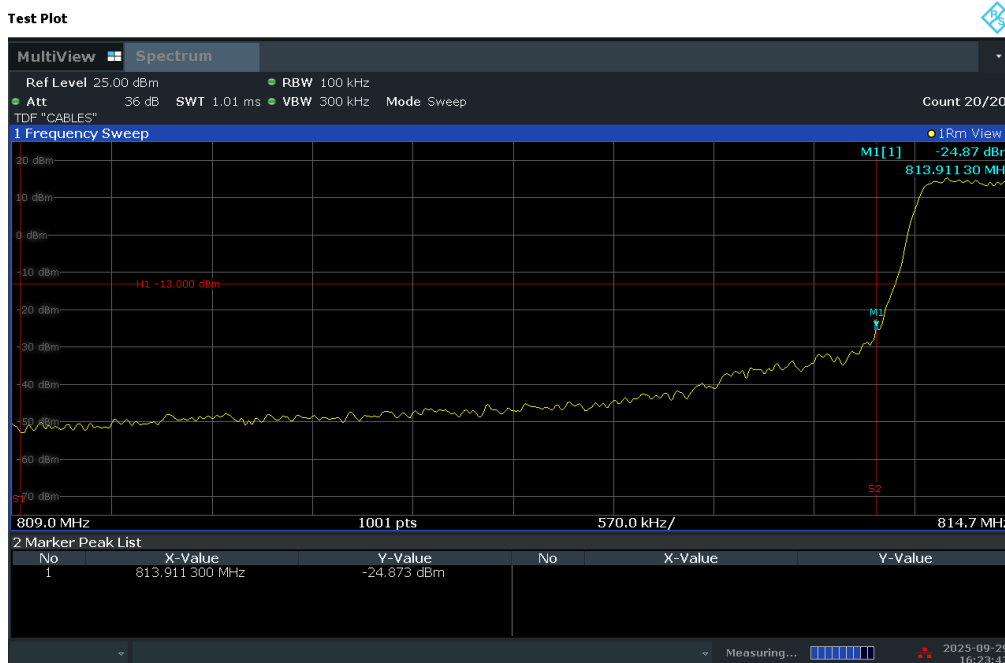
Test Notes

1. Per Part 90, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit. The 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.
2. For LTE Band 14 and NR Band n14 operation under Part 90.543, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10\log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.
3. Additionally, for LTE Band 14 and NR Band n14 operation, on all frequencies between 769-775 MHz and 799-805 MHz, the power of any emission shall be attenuated by a factor not less than $65 + 10\log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
4. 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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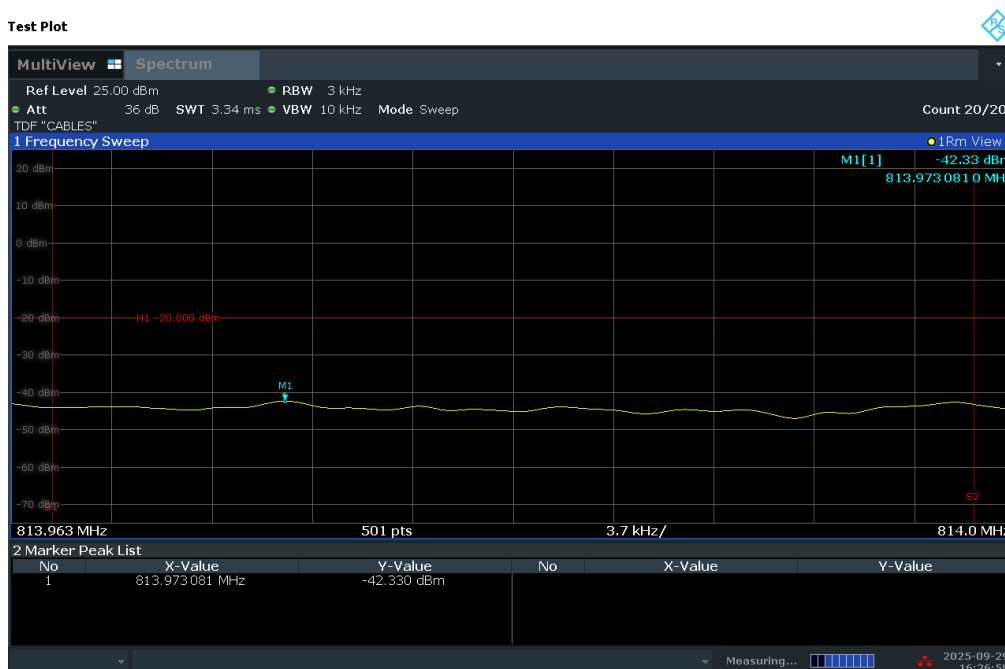
V2.2 09/07/2023

LTE Band 26



04:23:44 PM 09/29/2025

Plot 7-81. Lower Band Edge Plot (LTE Band 26 – 1.4MHz QPSK – Low Channel)



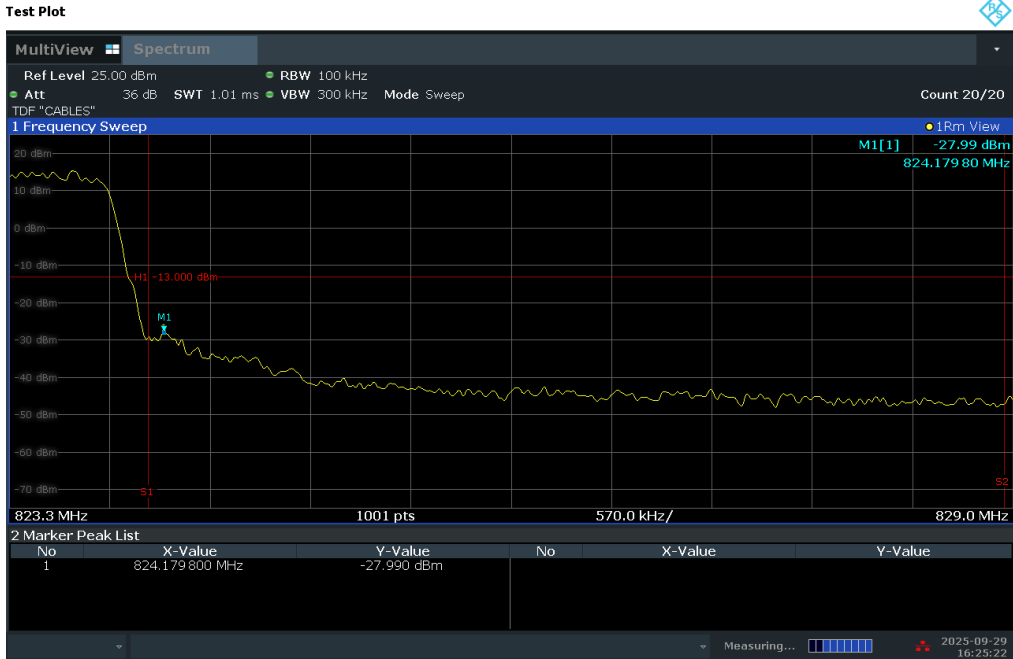
04:26:59 PM 09/29/2025

Plot 7-82. Extended Lower Band Edge Plot (LTE Band 26 – 1.4MHz QPSK – Low Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device	Page 62 of 109

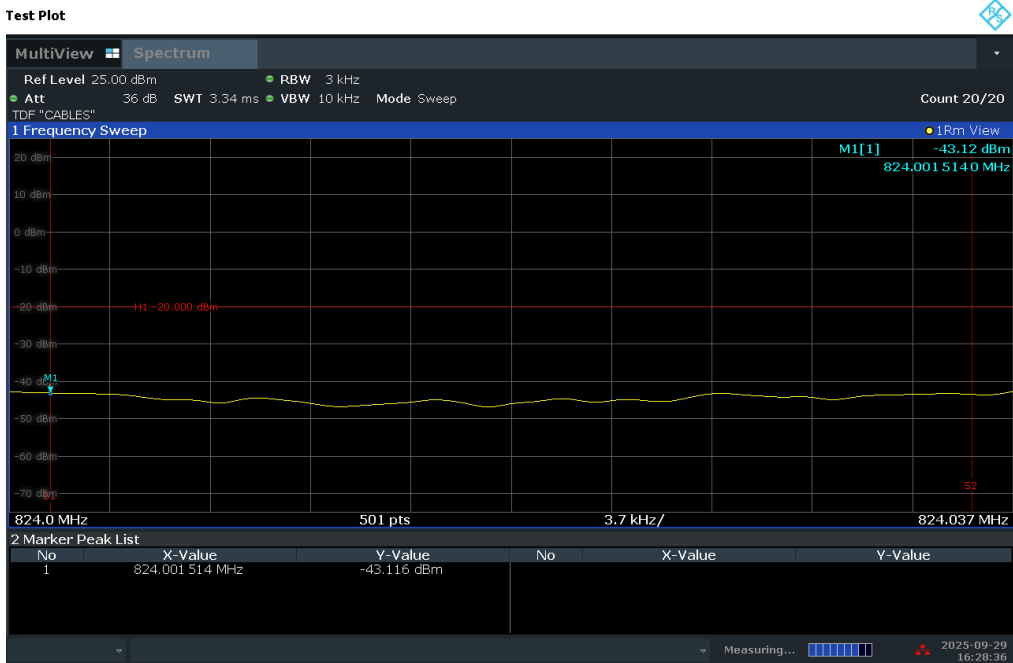
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04:25:22 PM 09/29/2025

Plot 7-83. Upper Band Edge Plot (LTE Band 26 – 1.4MHz QPSK – High Channel)



04:28:37 PM 09/29/2025

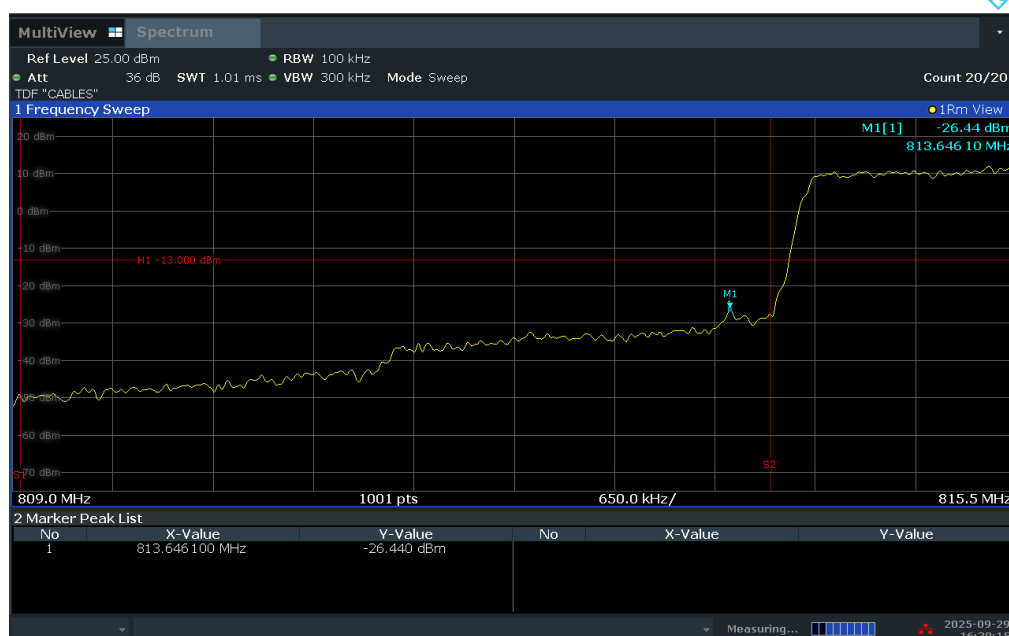
Plot 7-84. Extended Upper Band Edge Plot (LTE Band 26 – 1.4MHz QPSK – High Channel)

FCC ID: BCGA3460	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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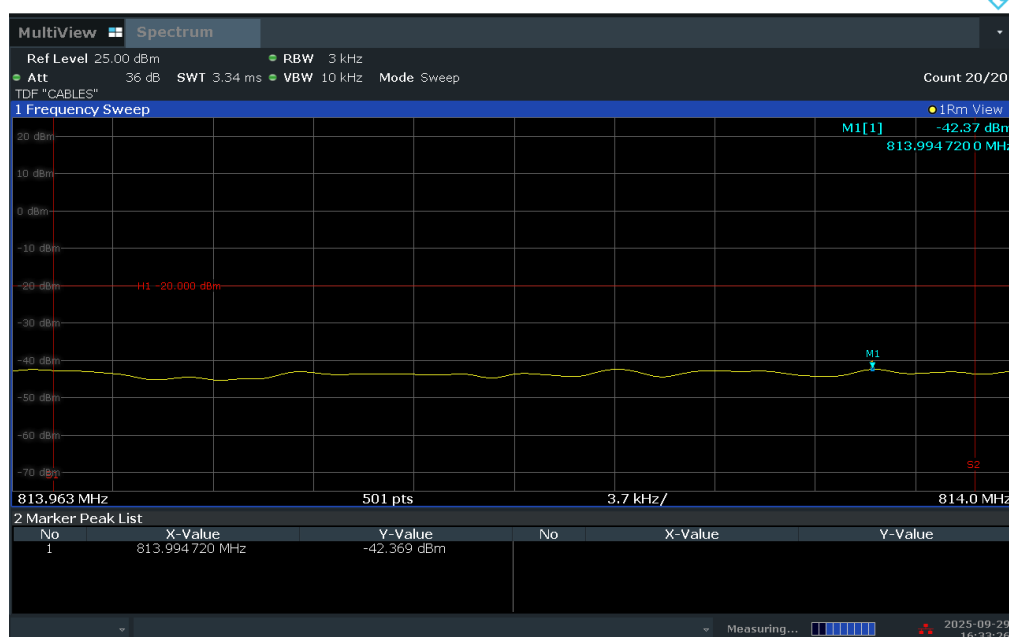
Test Plot



04:30:15 PM 09/29/2025

Plot 7-85. Lower Band Edge Plot (LTE Band 26 – 3MHz QPSK – Low Channel)

Test Plot



04:33:27 PM 09/29/2025

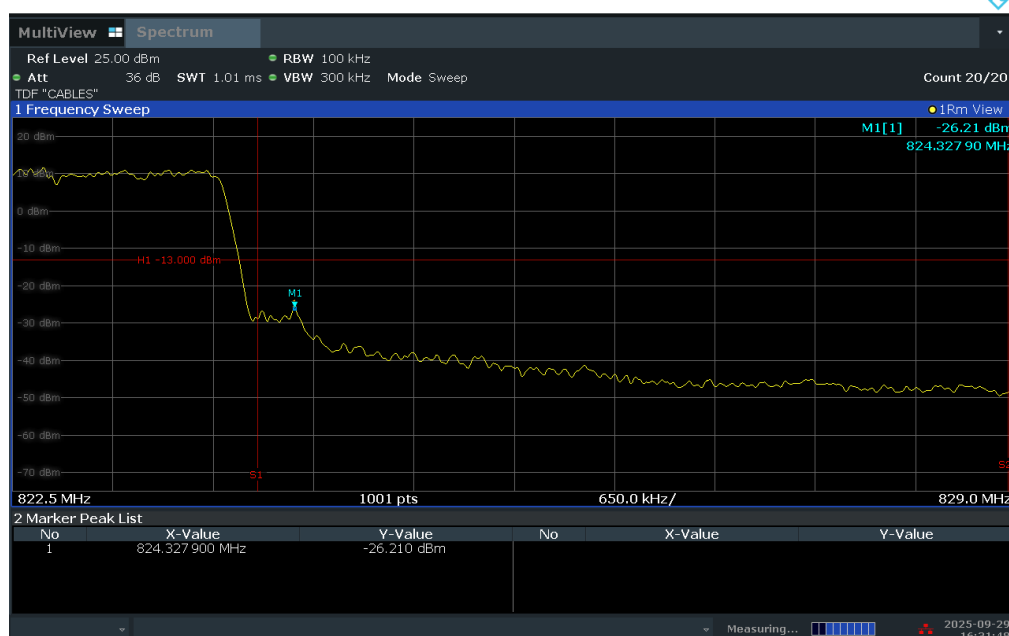
Plot 7-86. Extended Lower Band Edge Plot (LTE Band 26 – 3MHz QPSK – Low Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device	Page 64 of 109

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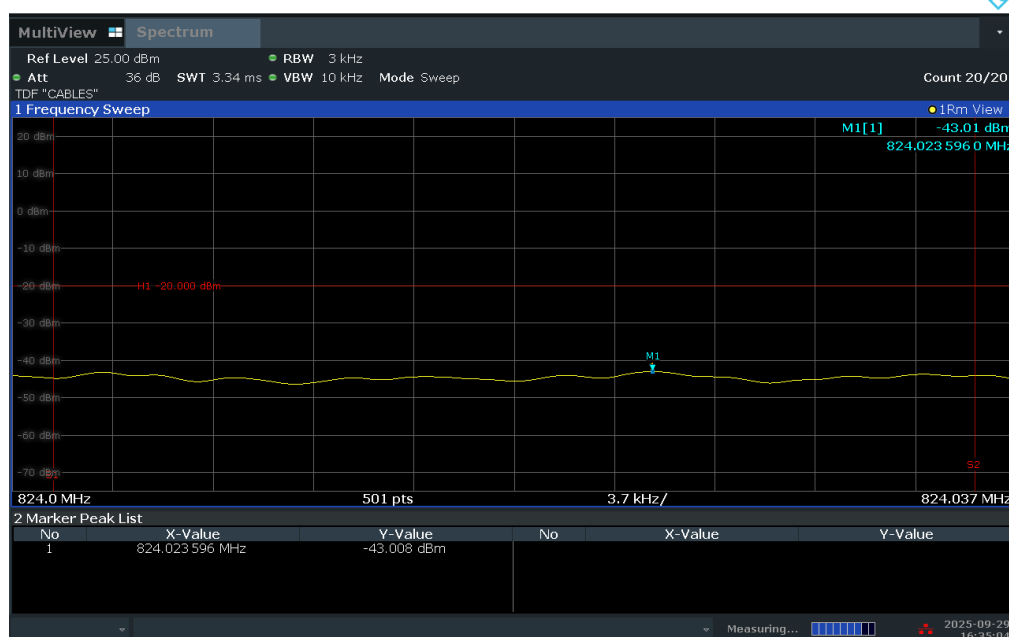
Test Plot



04:31:49 PM 09/29/2025

Plot 7-87. Upper Band Edge Plot (LTE Band 26 – 3MHz QPSK – High Channel)

Test Plot



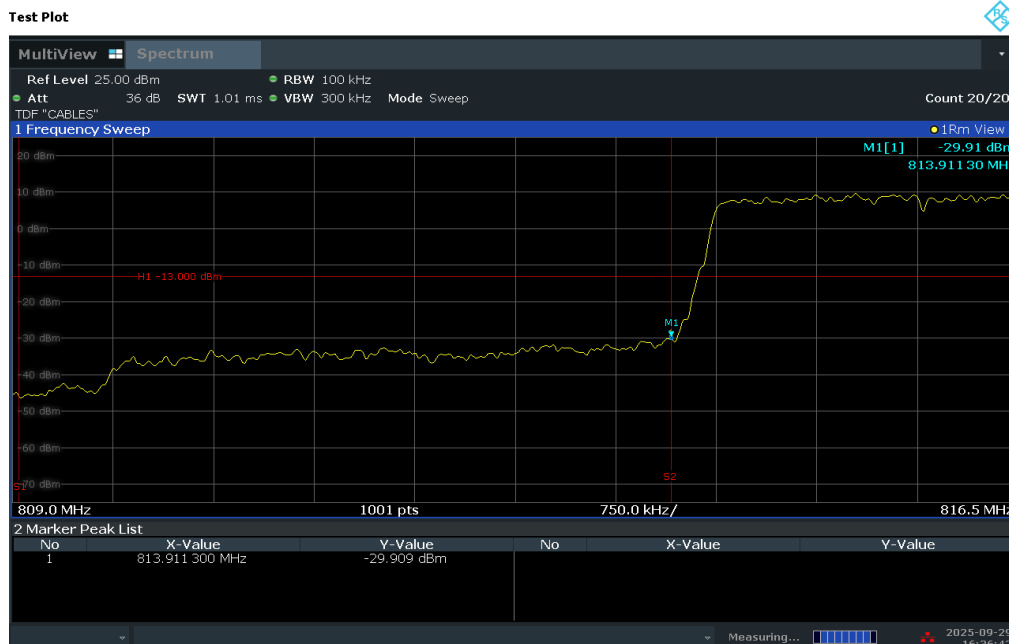
04:35:04 PM 09/29/2025

Plot 7-88. Extended Upper Band Edge Plot (LTE Band 26 – 3MHz QPSK – High Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device	Page 65 of 109

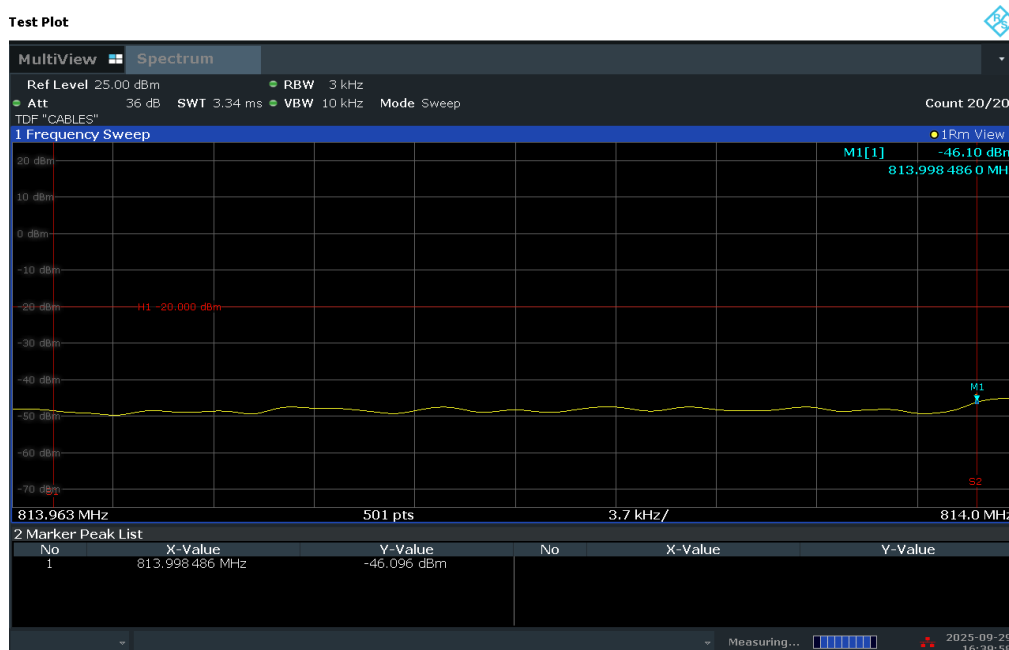
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04:36:42 PM 09/29/2025

Plot 7-89. Lower Band Edge Plot (LTE Band 26 – 5MHz QPSK – Low Channel)



04:39:59 PM 09/29/2025

Plot 7-90. Extended Lower Band Edge Plot (LTE Band 26 – 5MHz QPSK – Low Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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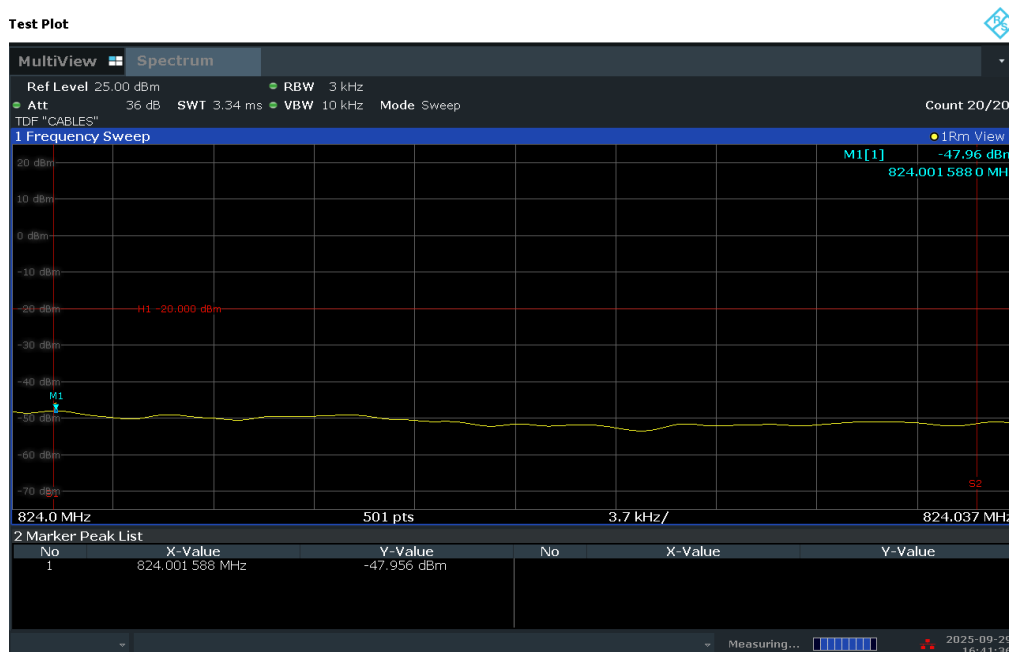
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04:38:21 PM 09/29/2025

Plot 7-91. Upper Band Edge Plot (LTE Band 26 – 5MHz QPSK – High Channel)



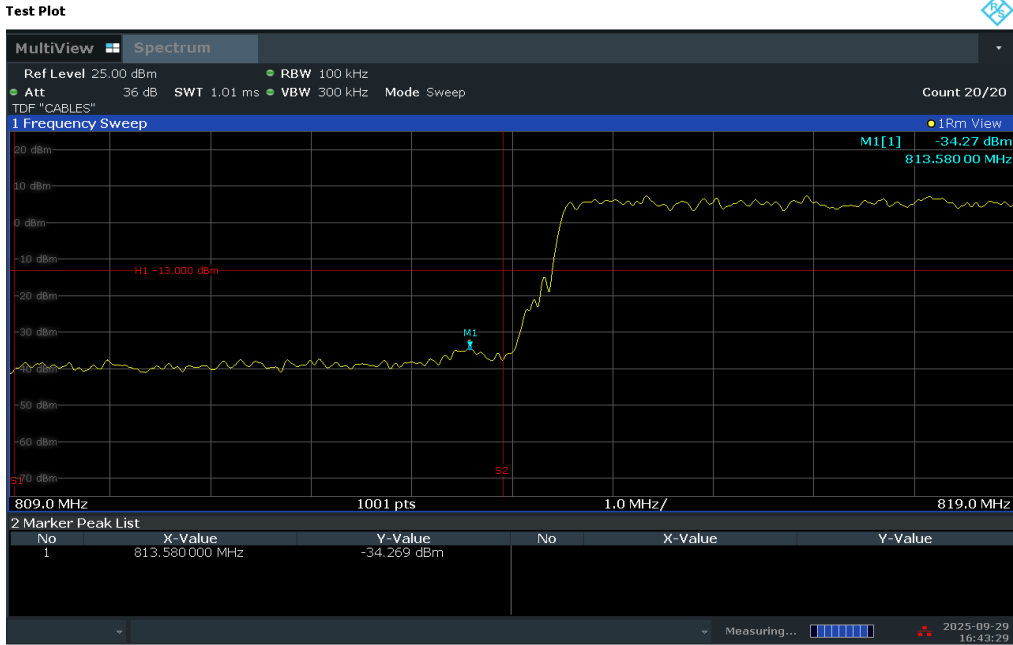
04:41:37 PM 09/29/2025

Plot 7-92. Extended Upper Band Edge Plot (LTE Band 26 – 5MHz QPSK – High Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device	Page 67 of 109

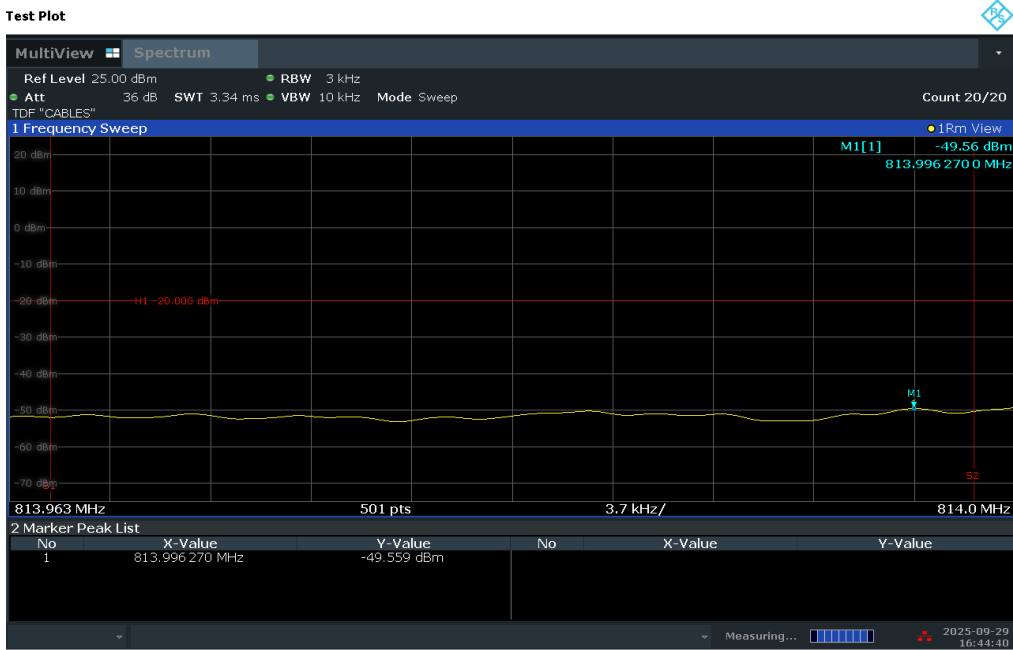
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04:43:29 PM 09/29/2025

Plot 7-93. Lower Band Edge Plot (LTE Band 26 – 10MHz QPSK – Low Channel)



04:44:40 PM 09/29/2025

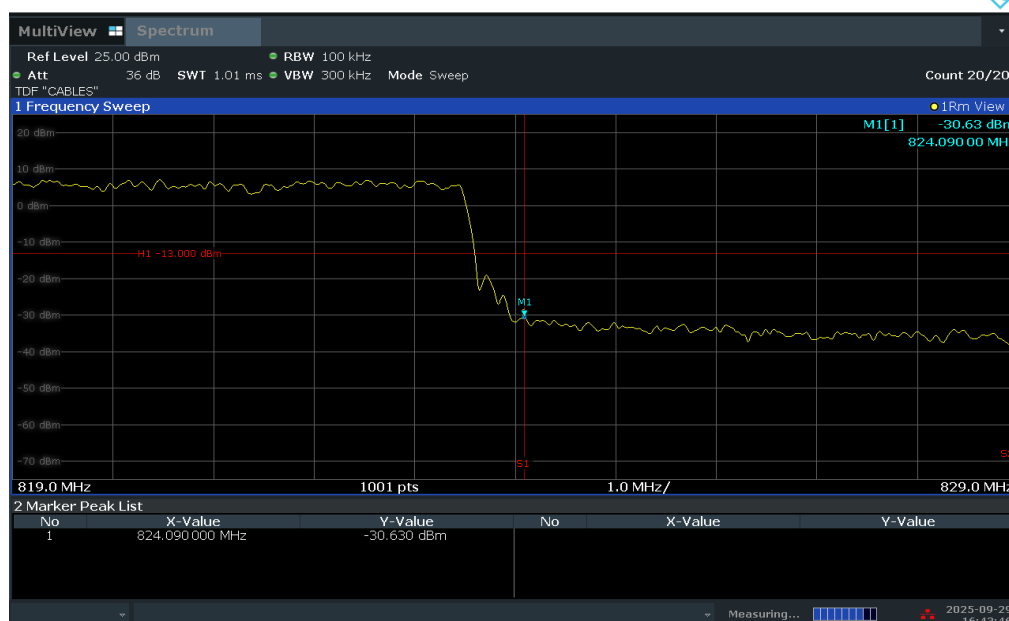
Plot 7-94. Extended Lower Band Edge Plot (LTE Band 26 – 10MHz QPSK – Low Channel)

FCC ID: BCGA3460	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device	Page 68 of 109

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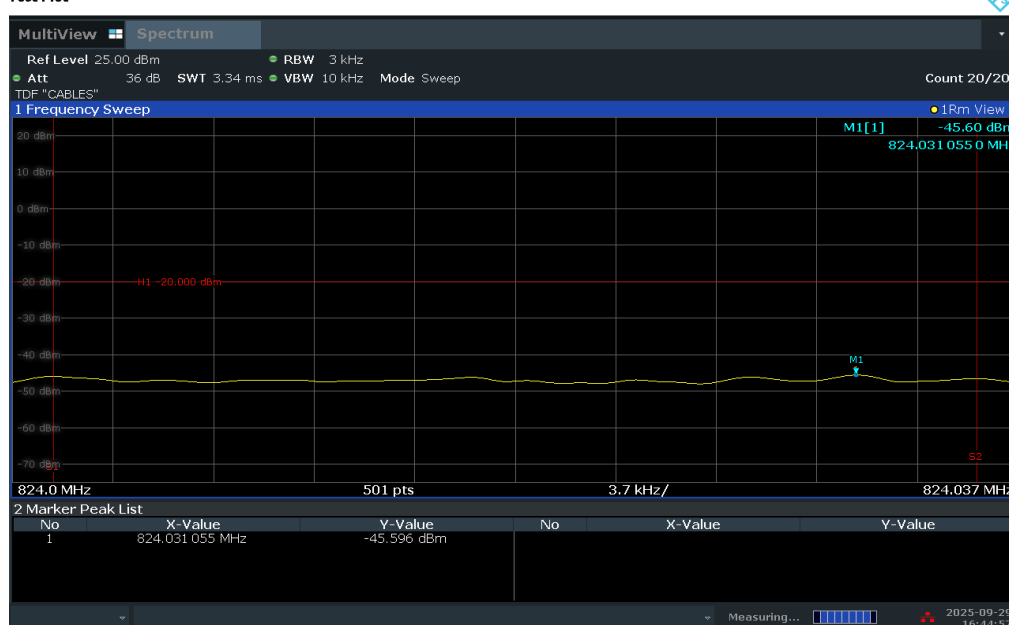
Test Plot



04:43:47 PM 09/29/2025

Plot 7-95. Upper Band Edge Plot (LTE Band 26 – 10MHz QPSK – High Channel)

Test Plot



04:44:58 PM 09/29/2025

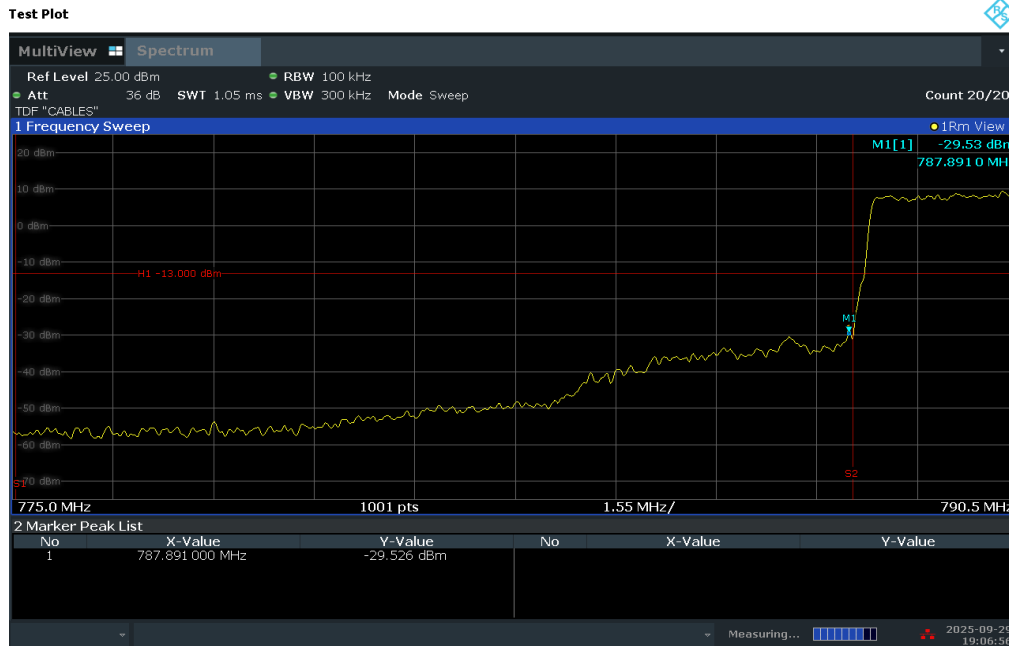
Plot 7-96. Extended Upper Band Edge Plot (LTE Band 26 – 10MHz QPSK – High Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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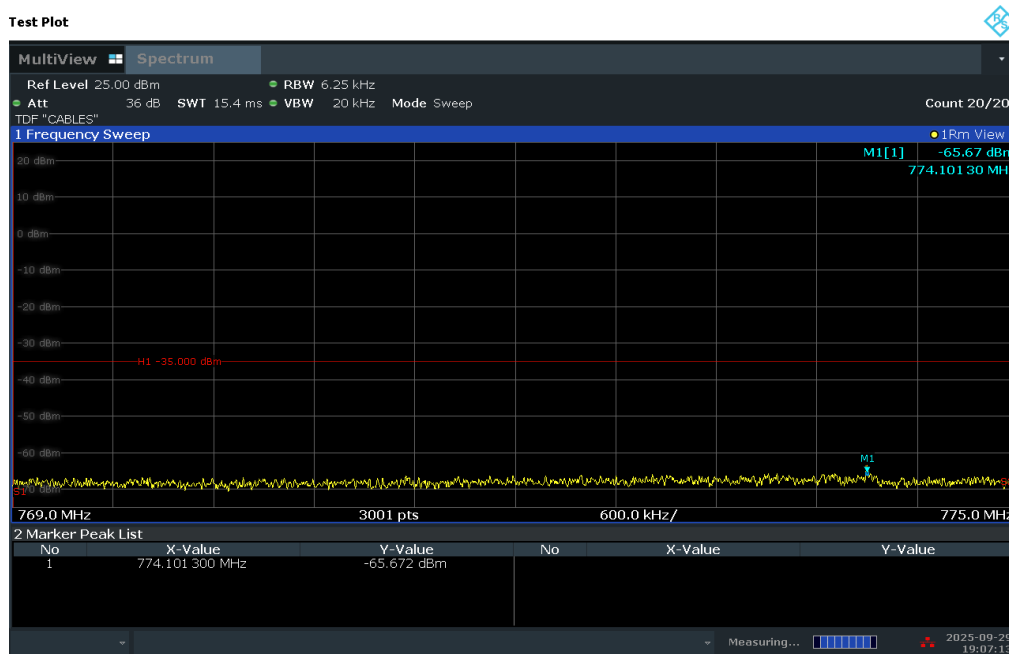
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LTE Band 14



07:06:56 PM 09/29/2025

Plot 7-97. Lower Band Edge Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)



07:07:14 PM 09/29/2025

Plot 7-98. Lower Emission Mask Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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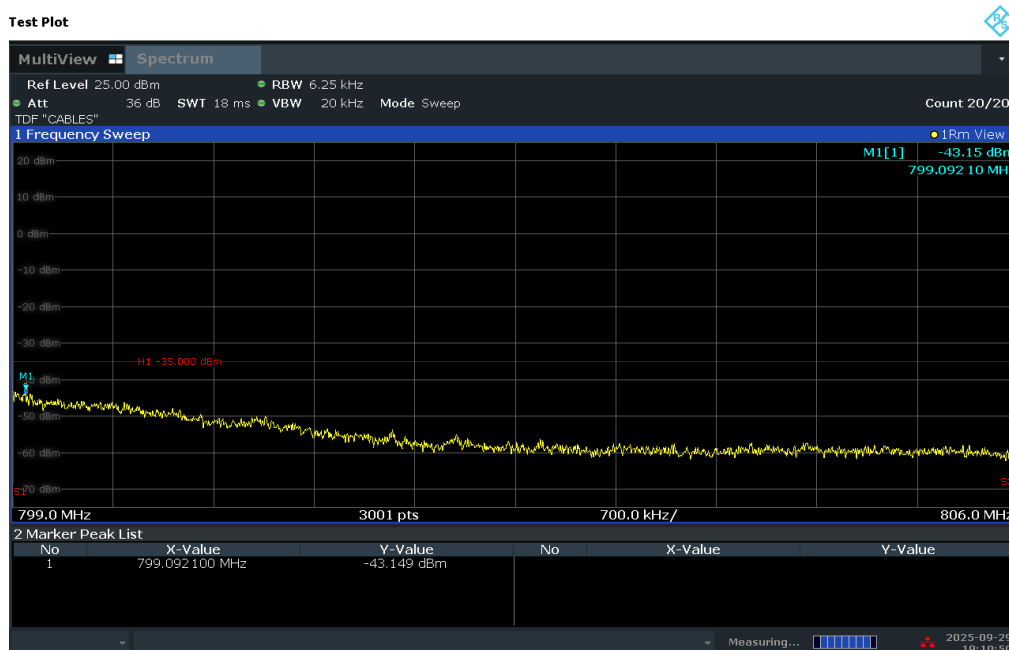
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07:10:15 PM 09/29/2025

Plot 7-99. Upper Band Edge Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)



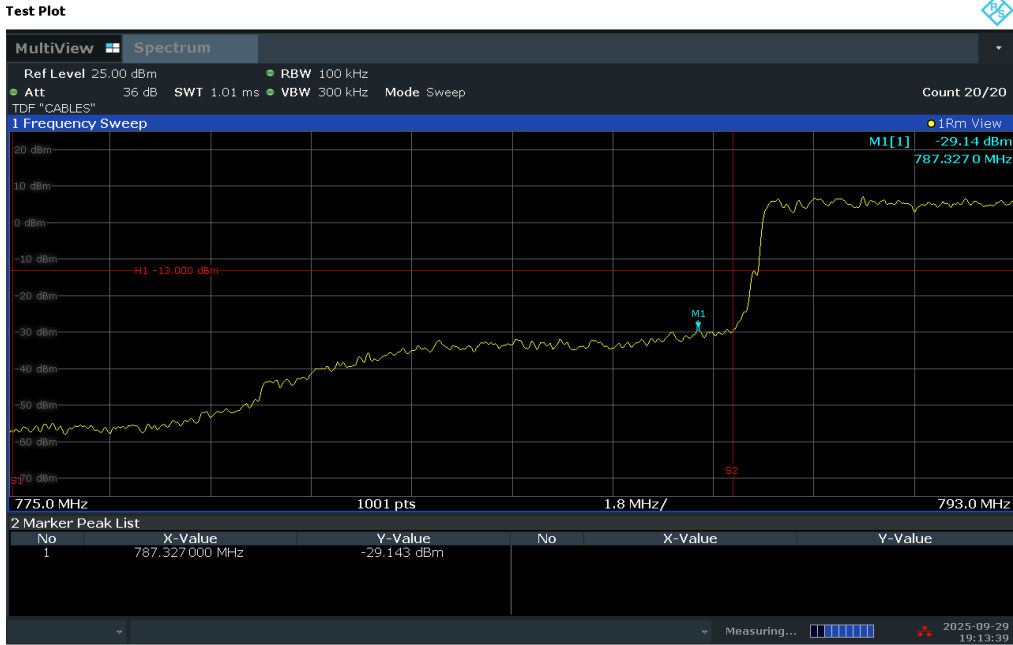
07:10:50 PM 09/29/2025

Plot 7-100. Upper Emission Mask Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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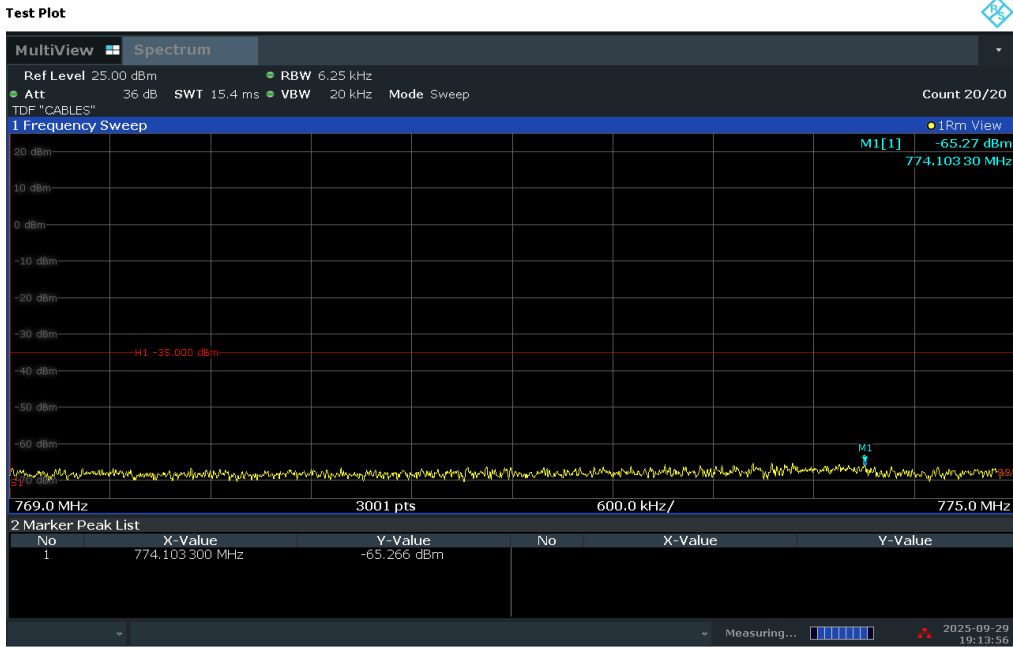
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07:13:39 PM 09/29/2025

Plot 7-101. Lower Band Edge Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)



07:13:57 PM 09/29/2025

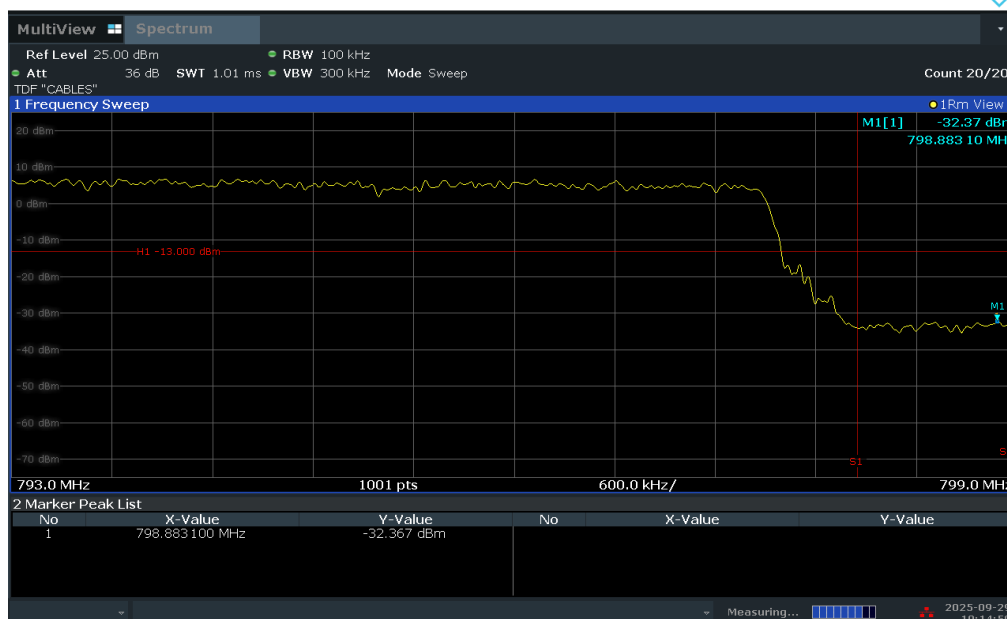
Plot 7-102. Lower Emission Mask Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)

FCC ID: BCGA3460	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device	Page 72 of 109

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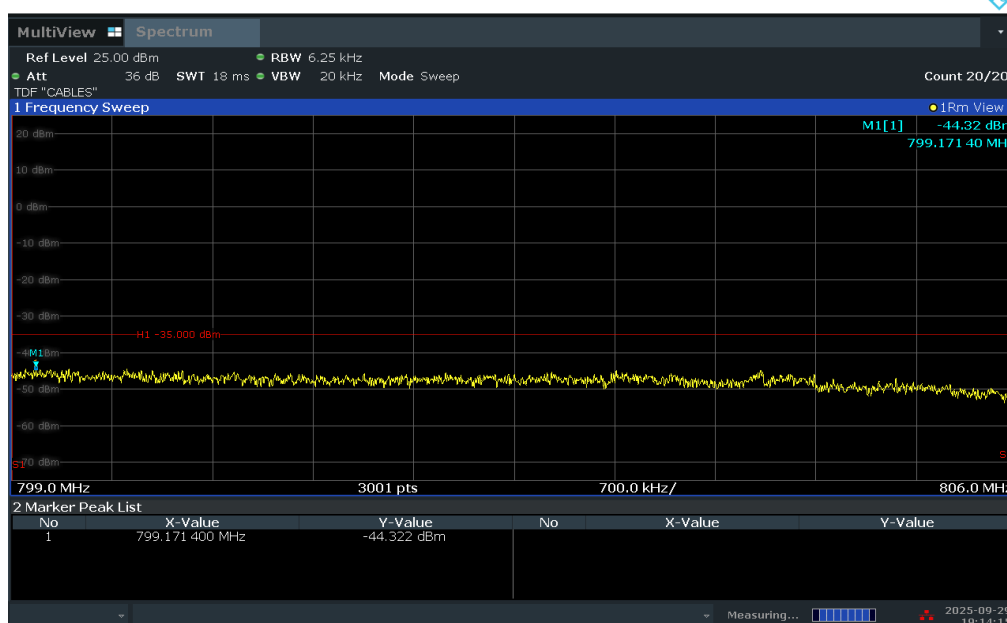
Test Plot



07:14:51 PM 09/29/2025

Plot 7-103. Upper Band Edge Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)

Test Plot



07:14:15 PM 09/29/2025

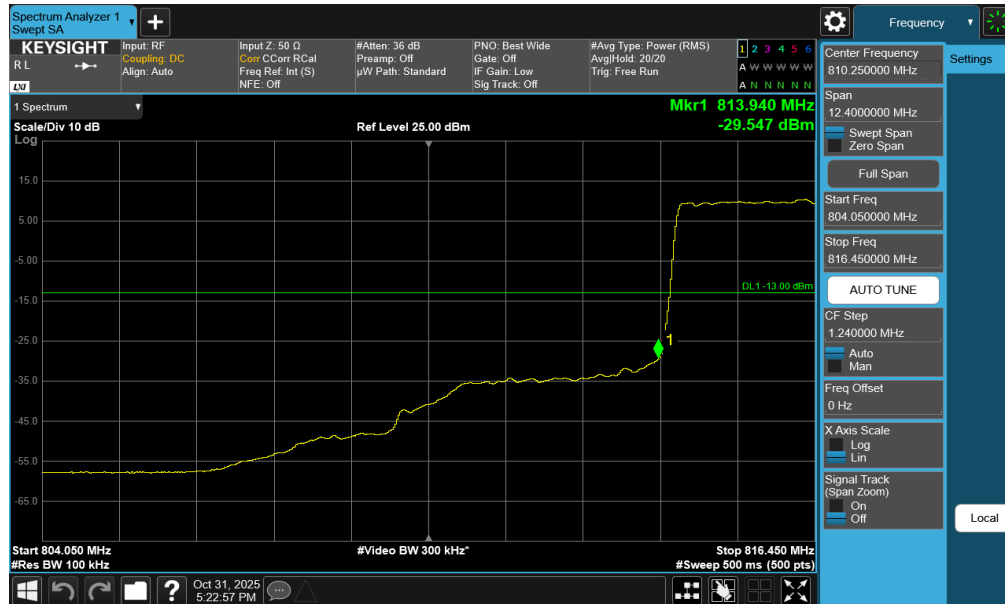
Plot 7-104. Upper Emission Mask Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device	Page 73 of 109

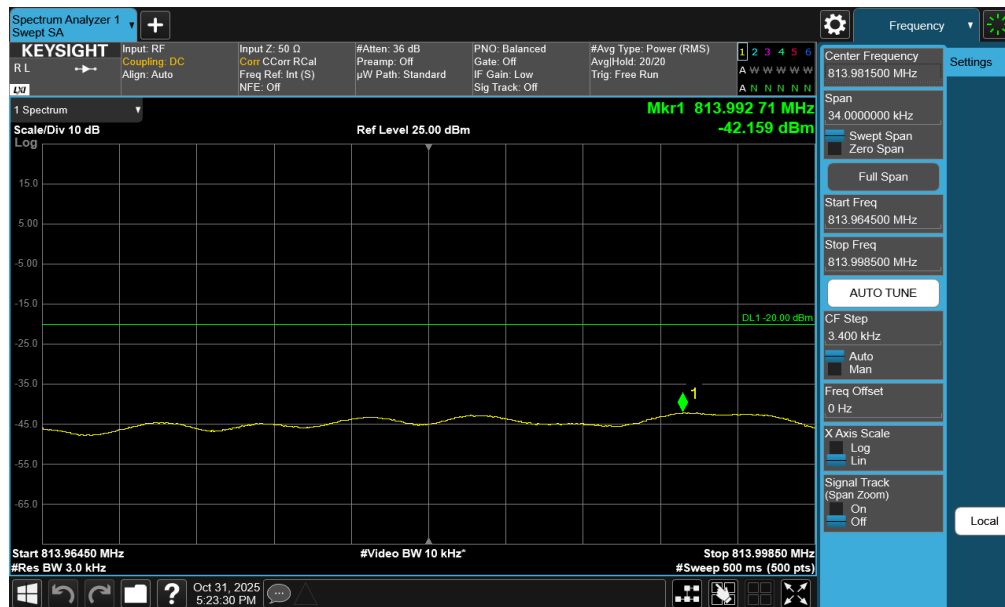
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NR Band n26



Plot 7-105. Lower Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – Low Channel)



Plot 7-106. Extended Lower Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – Low Channel)

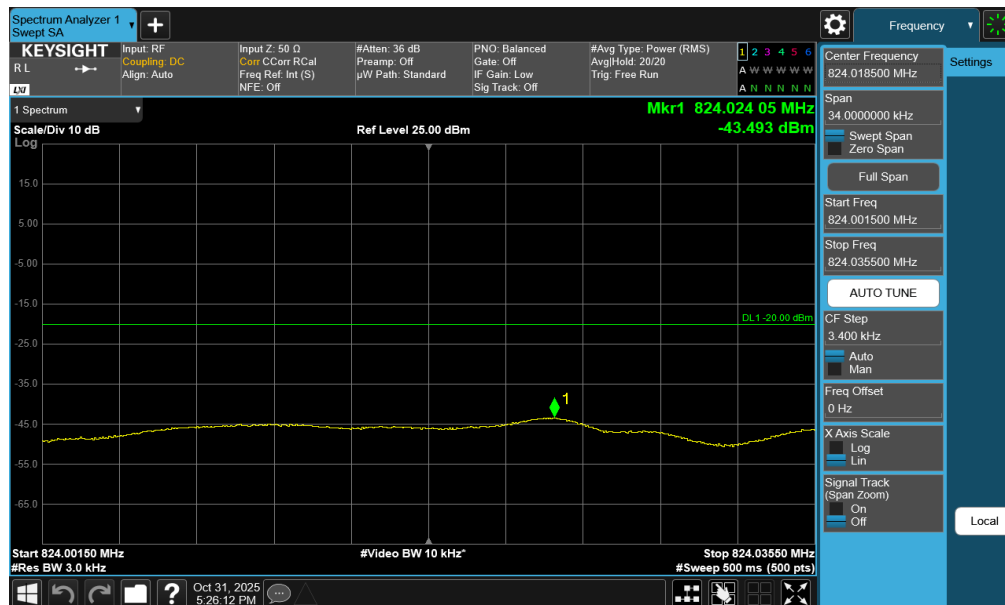
FCC ID: BCGA3460	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device
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Plot 7-107. Upper Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – High Channel)

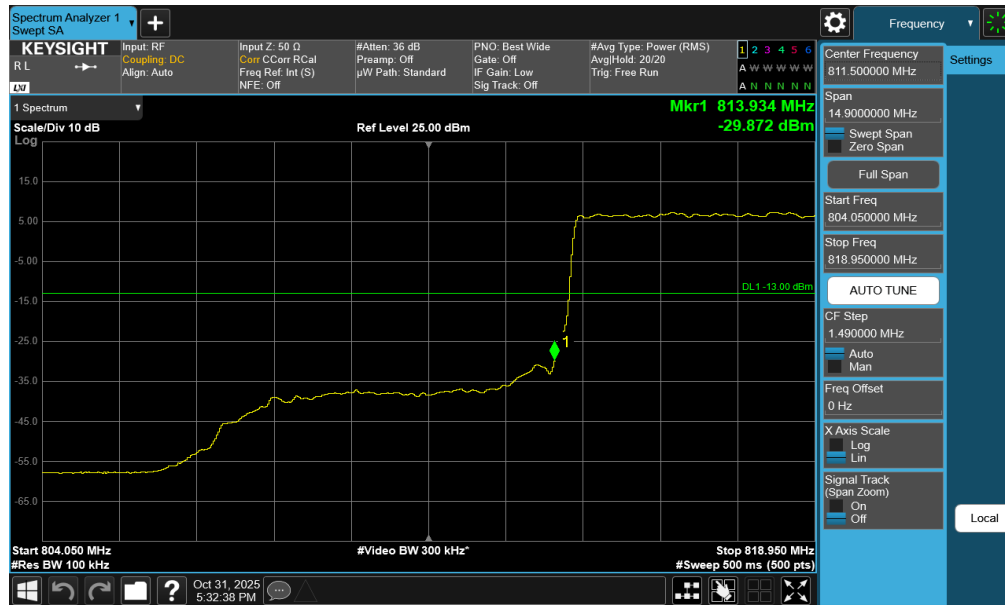


Plot 7-108. Extended Upper Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – High Channel)

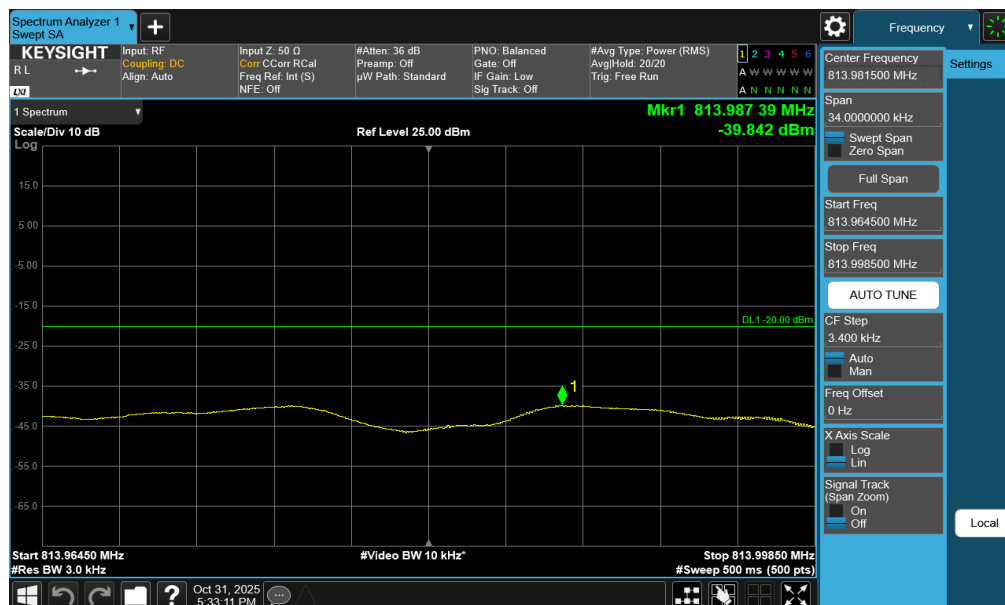
FCC ID: BCGA3460	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-12-R3.BCG	Test Dates: 7/15/2025 - 11/4/2025	EUT Type: Tablet Device
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Plot 7-109. Lower Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – Low Channel)

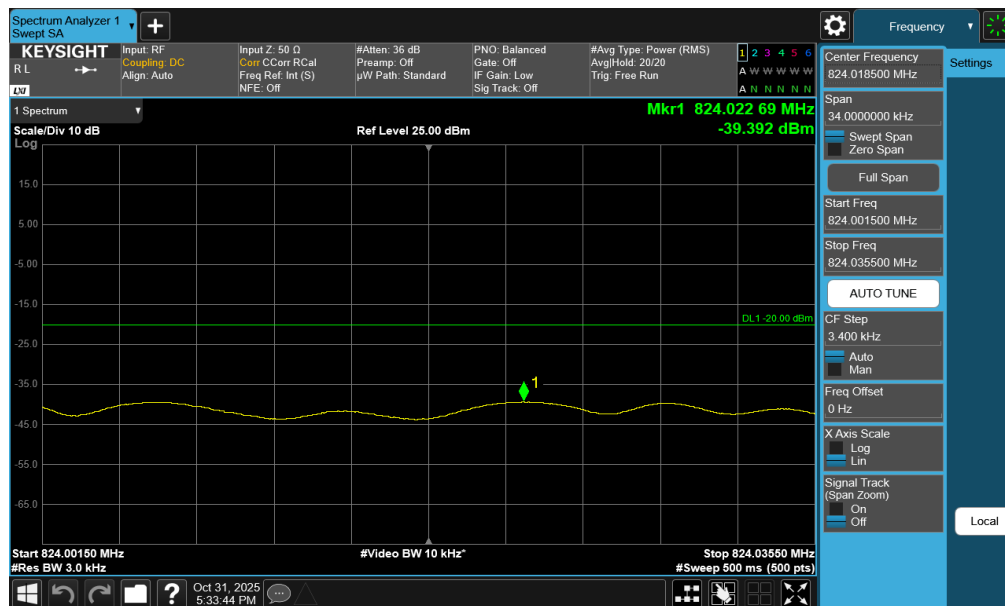


Plot 7-110. Extended Lower Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – Low Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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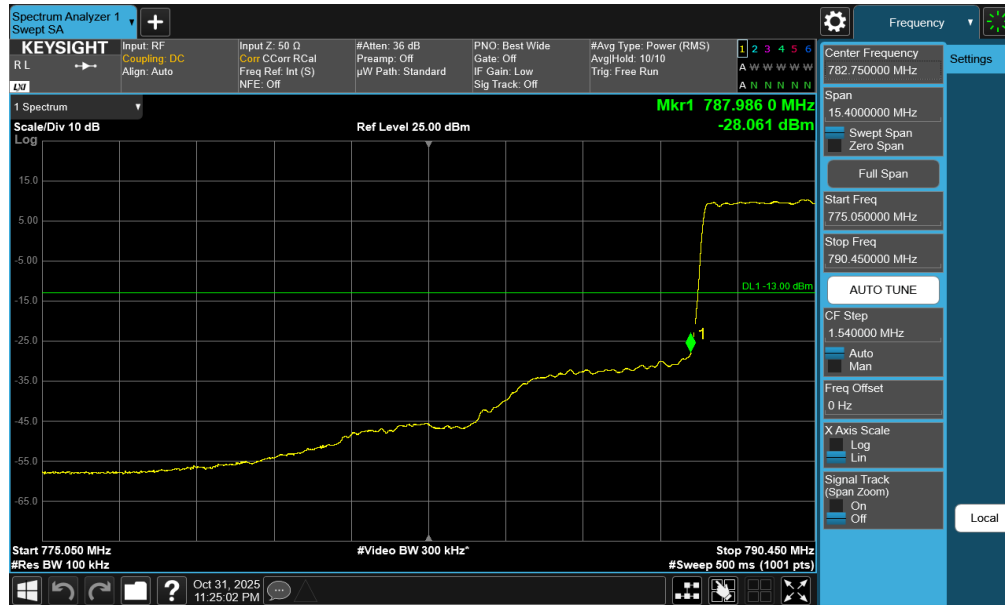


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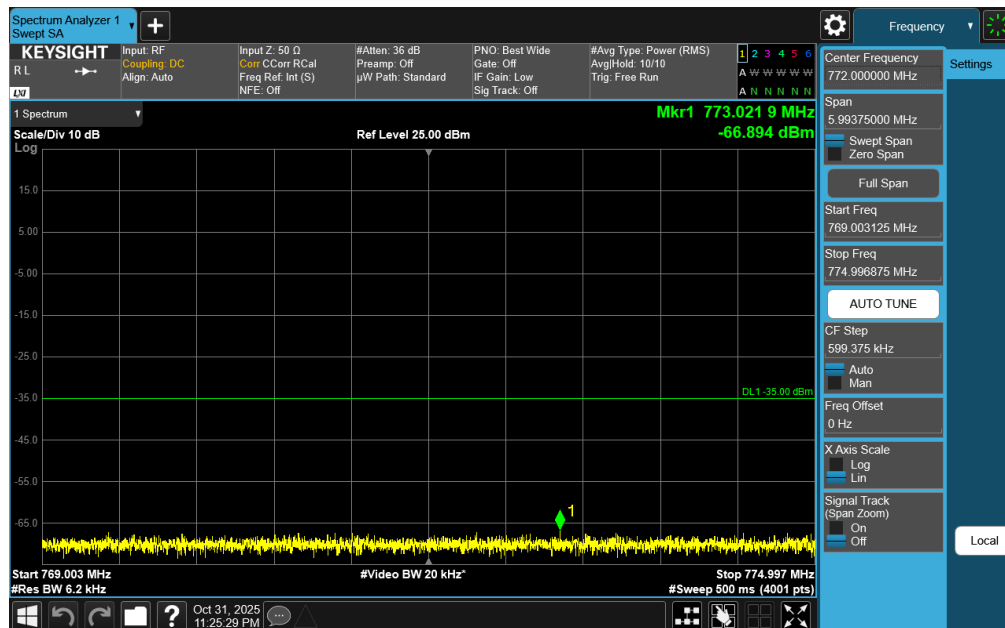
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NR Band n14



Plot 7-113. Lower Band Edge Plot (NR Band n14 - 5MHz CP-OFDM QPSK – RB Size 25)

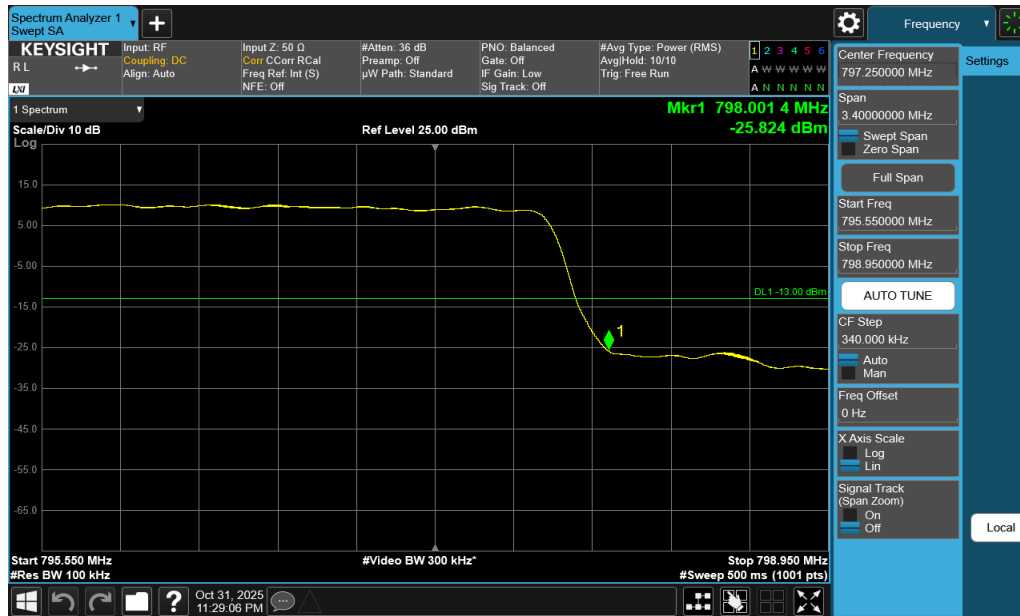


Plot 7-114. Lower Emission Mask Plot (NR Band n14 - 5MHz CP-OFDM QPSK – RB Size 25)

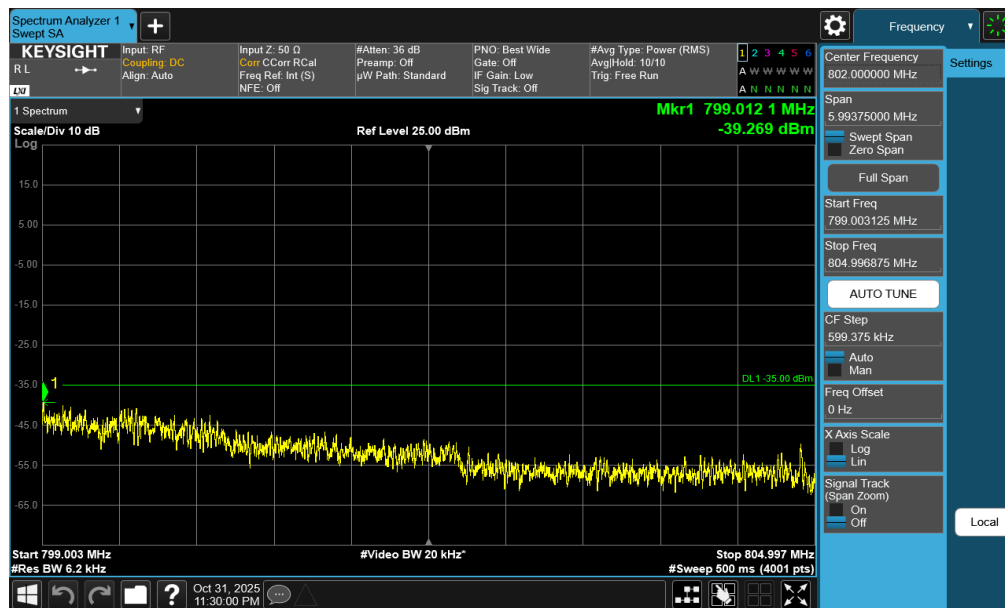
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Plot 7-115. Upper Band Edge Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK – RB Size 25)

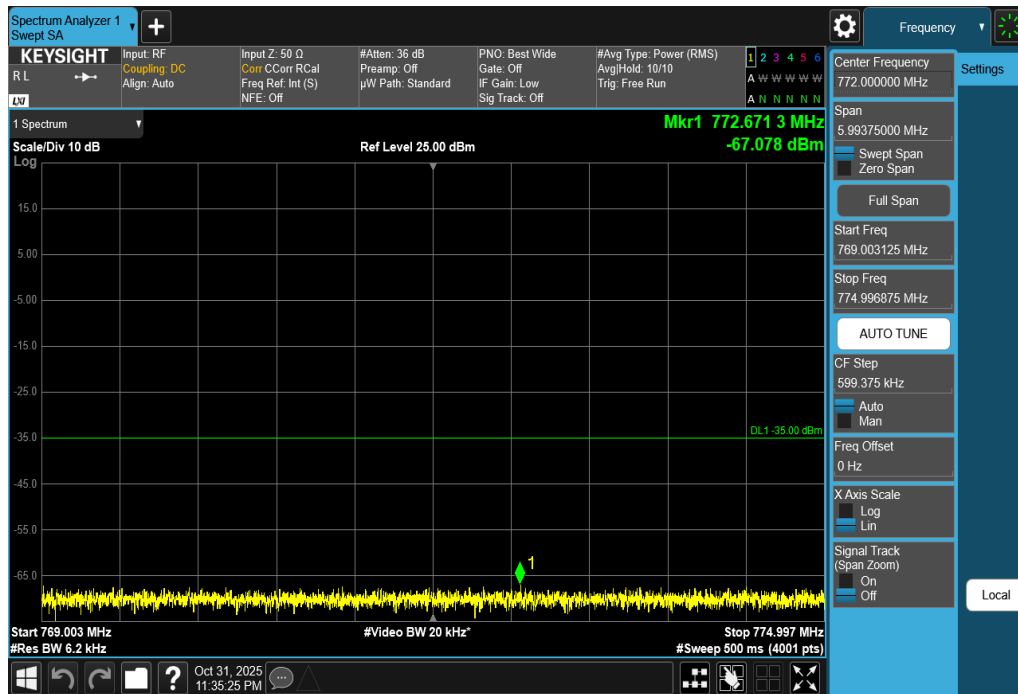


Plot 7-116. Upper Emission Mask Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK – RB Size 25)

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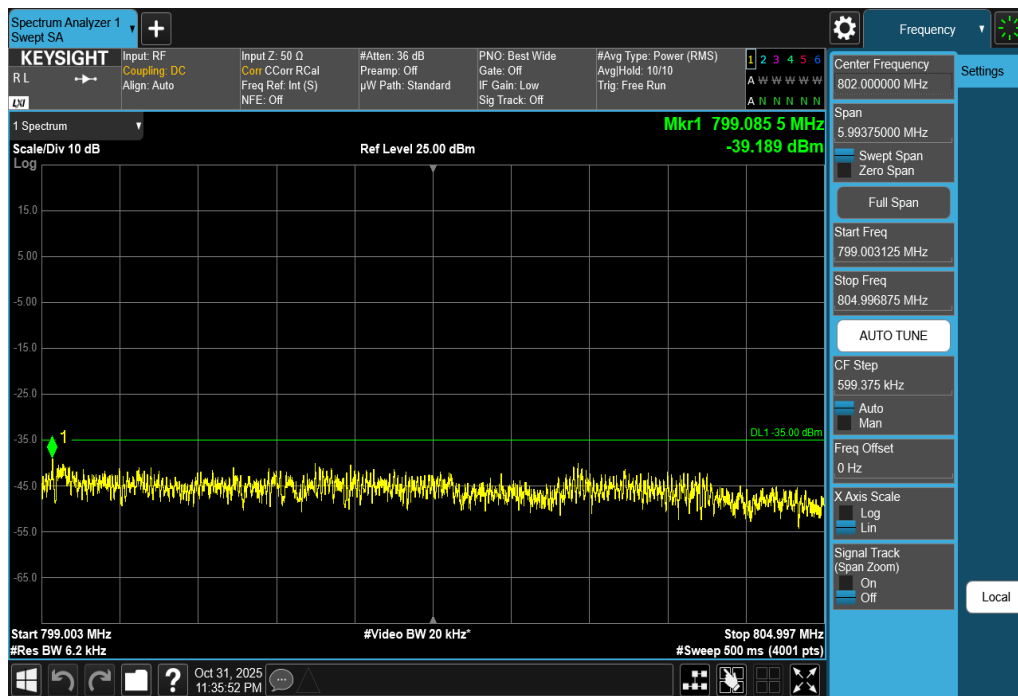
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7.5 Conducted Power Output Data

\$2.1046 \$90.635

Test Overview

Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

Test Procedures Used

KDB 971168 D01 v03r01

Test Setup

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

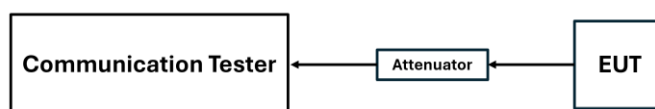


Figure 7-7. LTE Conducted Power Measurement Setup

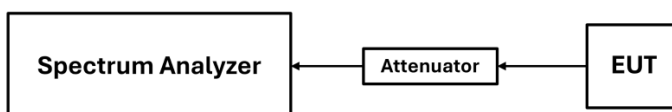


Figure 7-8. FR1 Conducted Power Measurement Setup

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.
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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7.5.1 Antenna 4 – Conducted Power

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	814.7	1 / 0	25.47	0.352	50.00	-24.53
		819.0	1 / 0	25.35	0.343	50.00	-24.65
		823.3	1 / 3	25.41	0.348	50.00	-24.59
	16-QAM	819.0	1 / 0	24.28	0.268	50.00	-25.72
	64-QAM	814.7	1 / 0	23.52	0.225	50.00	-26.48
	256-QAM	823.3	6 / 0	21.42	0.139	50.00	-28.58
3 MHz	QPSK	815.5	1 / 0	25.51	0.356	50.00	-24.49
		819.0	1 / 0	25.38	0.345	50.00	-24.62
		822.5	1 / 0	25.37	0.344	50.00	-24.63
	16-QAM	819.0	1 / 0	24.31	0.270	50.00	-25.69
	64-QAM	819.0	1 / 7	23.46	0.222	50.00	-26.54
	256-QAM	819.0	15 / 0	21.38	0.137	50.00	-28.62
5 MHz	QPSK	816.5	1 / 0	25.47	0.352	50.00	-24.53
		819.0	1 / 0	25.30	0.339	50.00	-24.70
		821.5	1 / 12	25.35	0.343	50.00	-24.65
	16-QAM	819.0	1 / 0	24.25	0.266	50.00	-25.75
	64-QAM	816.5	1 / 12	23.44	0.221	50.00	-26.56
	256-QAM	819.0	25 / 0	21.43	0.139	50.00	-28.57
10 MHz	QPSK	819.0	1 / 0	25.35	0.343	50.00	-24.65
	16-QAM	819.0	1 / 0	24.31	0.270	50.00	-25.69
	64-QAM	819.0	1 / 25	23.34	0.216	50.00	-26.66
	256-QAM	819.0	50 / 0	21.39	0.138	50.00	-28.61

Table 7-2. Antenna 4 Conducted Output Data (LTE Band 26)

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	816.5	25 / 0	25.43	0.349	50.00	-24.57
		819.0	25 / 0	25.36	0.344	50.00	-24.64
		821.5	1 / 23	25.43	0.349	50.00	-24.57
	QPSK	816.5	1 / 1	25.31	0.340	50.00	-24.69
		819.0	1 / 1	25.37	0.344	50.00	-24.63
		821.5	1 / 1	25.26	0.336	50.00	-24.74
	16-QAM	819.0	1 / 1	24.20	0.263	50.00	-25.80
	64-QAM	816.5	25 / 0	23.49	0.223	50.00	-26.51
	256-QAM	816.5	25 / 0	21.45	0.140	50.00	-28.55
10 MHz	$\pi/2$ BPSK	819.0	1 / 50	25.46	0.352	50.00	-24.54
	QPSK	819.0	1 / 50	25.44	0.350	50.00	-24.56
	16-QAM	819.0	1 / 50	24.28	0.268	50.00	-25.72
	64-QAM	819.0	50 / 0	23.42	0.220	50.00	-26.58
	256-QAM	819.0	50 / 0	21.40	0.138	50.00	-28.60

Table 7-3. Antenna 4 Conducted Output Data (NR Band n26)

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7.5.2 Antenna 3b – Conducted Power

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	814.7	1 / 0	25.42	0.348	50.00	-24.58
		819.0	1 / 0	25.40	0.347	50.00	-24.60
		823.3	1 / 3	25.39	0.346	50.00	-24.61
	16-QAM	819.0	1 / 0	24.24	0.265	50.00	-25.76
	64-QAM	814.7	1 / 0	23.52	0.225	50.00	-26.48
	256-QAM	823.3	6 / 0	21.40	0.138	50.00	-28.60
3 MHz	QPSK	815.5	1 / 0	25.48	0.353	50.00	-24.52
		819.0	1 / 0	25.42	0.348	50.00	-24.58
		822.5	1 / 0	25.40	0.347	50.00	-24.60
	16-QAM	819.0	1 / 0	24.26	0.267	50.00	-25.74
	64-QAM	815.5	1 / 14	23.43	0.220	50.00	-26.57
	256-QAM	819.0	15 / 0	21.43	0.139	50.00	-28.57
5 MHz	QPSK	816.5	1 / 0	25.42	0.348	50.00	-24.58
		819.0	1 / 0	25.28	0.337	50.00	-24.72
		821.5	1 / 12	25.31	0.340	50.00	-24.69
	16-QAM	819.0	1 / 0	24.22	0.264	50.00	-25.78
	64-QAM	816.5	1 / 12	23.43	0.220	50.00	-26.57
	256-QAM	819.0	25 / 0	21.44	0.139	50.00	-28.56
10 MHz	QPSK	819.0	1 / 0	25.33	0.341	50.00	-24.67
	16-QAM	819.0	1 / 0	24.30	0.269	50.00	-25.70
	64-QAM	819.0	1 / 25	23.32	0.215	50.00	-26.68
	256-QAM	819.0	50 / 0	21.41	0.138	50.00	-28.59

Table 7-4. Antenna 3b Conducted Output Data (LTE Band 26)

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	816.5	25 / 0	25.40	0.347	50.00	-24.60
		819.0	25 / 0	25.34	0.342	50.00	-24.66
		821.5	25 / 0	25.42	0.348	50.00	-24.58
	QPSK	816.5	1 / 1	25.50	0.355	50.00	-24.50
		819.0	1 / 1	25.35	0.343	50.00	-24.65
		821.5	1 / 12	25.37	0.344	50.00	-24.63
	16-QAM	819.0	1 / 1	24.29	0.269	50.00	-25.71
	64-QAM	816.5	25 / 0	23.49	0.223	50.00	-26.51
10 MHz	256-QAM	819.0	25 / 0	21.40	0.138	50.00	-28.60
	$\pi/2$ BPSK	819.0	50 / 0	25.36	0.344	50.00	-24.64
	QPSK	819.0	1 / 1	25.35	0.343	50.00	-24.65
	16-QAM	819.0	1 / 1	24.29	0.269	50.00	-25.71
	64-QAM	819.0	50 / 0	23.33	0.215	50.00	-26.67
	256-QAM	819.0	50 / 0	21.42	0.139	50.00	-28.58

Table 7-5. Antenna 3b Conducted Output Data (NR Band n26)

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7.6 Radiated Power (ERP)

§90.542(a)(7)

Test Overview

Effective Radiated Power (ERP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1
ANSI C63.26-2015

Test Settings

The relevant equation for determining the ERP from the conducted RF output power measured is:

$$\text{ERP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

ERP = Effective Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP)

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Test Setup

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

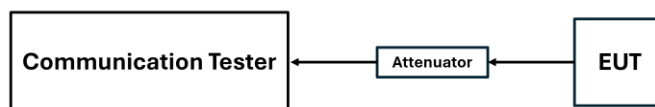


Figure 7-9. LTE ERP Measurement Setup

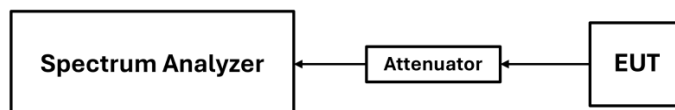


Figure 7-10. FR1 ERP Measurement Setup

Test Notes

1. The worst case emissions are reported with the modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. The Ant. Gains (GT) are listed in dBi.
5. 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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7.6.1 Antenna 4 - ERP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	790.5	-0.90	1 / 24	25.29	22.24	0.167	34.77	-12.53
		793.0	-0.90	1 / 12	25.35	22.30	0.170	34.77	-12.47
		795.5	-0.90	1 / 0	25.07	22.02	0.159	34.77	-12.75
	16-QAM	793.0	-0.90	1 / 12	24.73	21.68	0.147	34.77	-13.09
	64-QAM	793.0	-0.90	1 / 0	23.59	20.54	0.113	34.77	-14.23
	256-QAM	793.0	-0.90	25 / 0	20.68	17.63	0.058	34.77	-17.14
10 MHz	QPSK	793.0	-0.90	1 / 25	25.17	22.12	0.163	34.77	-12.65
	16-QAM	793.0	-0.90	1 / 25	24.47	21.42	0.139	34.77	-13.35
	64-QAM	793.0	-0.90	1 / 0	23.44	20.39	0.109	34.77	-14.38
	256-QAM	793.0	-0.90	50 / 0	20.72	17.67	0.058	34.77	-17.10

Table 7-6. Antenna 4 ERP Data (LTE Band 14)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	790.5	-0.90	25 / 0	25.25	22.20	0.166	34.77	-12.57
		793.0	-0.90	25 / 0	25.15	22.10	0.162	34.77	-12.67
		795.5	-0.90	25 / 0	25.13	22.08	0.161	34.77	-12.69
	QPSK	790.5	-0.90	1 / 12	25.15	22.10	0.162	34.77	-12.67
		793.0	-0.90	1 / 1	25.20	22.15	0.164	34.77	-12.62
		795.5	-0.90	1 / 1	25.25	22.20	0.166	34.77	-12.57
	16-QAM	795.5	-0.90	1 / 23	24.06	21.01	0.126	34.77	-13.76
	64-QAM	790.5	-0.90	25 / 0	23.23	20.18	0.104	34.77	-14.59
10 MHz	256-QAM	790.5	-0.90	25 / 0	21.21	18.16	0.065	34.77	-16.61
	$\pi/2$ BPSK	793.0	-0.90	1 / 50	25.00	21.95	0.157	34.77	-12.82
	QPSK	793.0	-0.90	1 / 1	25.03	21.98	0.158	34.77	-12.79
	16-QAM	793.0	-0.90	1 / 50	23.86	20.81	0.121	34.77	-13.96
	64-QAM	793.0	-0.90	50 / 0	23.04	19.99	0.100	34.77	-14.78
	256-QAM	793.0	-0.90	50 / 0	21.02	17.97	0.063	34.77	-16.80

Table 7-7. Antenna 4 ERP Data (NR Band n14)

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7.6.2 Antenna 3b - ERP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	790.5	-1.20	1 / 12	25.15	21.80	0.151	34.77	-12.97
		793.0	-1.20	1 / 24	25.34	21.99	0.158	34.77	-12.78
		795.5	-1.20	1 / 12	25.03	21.68	0.147	34.77	-13.09
	16-QAM	793.0	-1.20	1 / 24	24.65	21.30	0.135	34.77	-13.47
	64-QAM	793.0	-1.20	1 / 24	23.71	20.36	0.109	34.77	-14.41
	256-QAM	793.0	-1.20	25 / 0	20.57	17.22	0.053	34.77	-17.55
10 MHz	QPSK	793.0	-1.20	1 / 25	25.07	21.72	0.149	34.77	-13.05
	16-QAM	793.0	-1.20	1 / 49	24.46	21.11	0.129	34.77	-13.66
	64-QAM	793.0	-1.20	1 / 49	23.35	20.00	0.100	34.77	-14.77
	256-QAM	793.0	-1.20	50 / 0	20.61	17.26	0.053	34.77	-17.51

Table 7-8. Antenna 3b ERP Data (LTE Band 14)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	790.5	-1.20	25 / 0	25.31	21.96	0.157	34.77	-12.81
		793.0	-1.20	25 / 0	25.32	21.97	0.157	34.77	-12.80
		795.5	-1.20	25 / 0	25.27	21.92	0.156	34.77	-12.85
	QPSK	790.5	-1.20	1 / 12	25.29	21.94	0.156	34.77	-12.83
		793.0	-1.20	1 / 23	25.30	21.95	0.157	34.77	-12.82
		795.5	-1.20	1 / 1	25.35	22.00	0.158	34.77	-12.77
10 MHz	16-QAM	793.0	-1.20	1 / 12	24.21	20.86	0.122	34.77	-13.91
	64-QAM	793.0	-1.20	25 / 0	23.39	20.04	0.101	34.77	-14.73
	256-QAM	793.0	-1.20	25 / 0	21.36	18.01	0.063	34.77	-16.76
	$\pi/2$ BPSK	793.0	-1.20	1 / 1	25.32	21.97	0.157	34.77	-12.80
	QPSK	793.0	-1.20	1 / 50	25.33	21.98	0.158	34.77	-12.79
	16-QAM	793.0	-1.20	1 / 50	24.35	21.00	0.126	34.77	-13.77
	64-QAM	793.0	-1.20	50 / 0	23.35	20.00	0.100	34.77	-14.77
	256-QAM	793.0	-1.20	50 / 0	21.47	18.12	0.065	34.77	-16.65

Table 7-9. Antenna 3b ERP Data (NR Band n14)

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7.7 Radiated Spurious Emissions

§2.1053 §90.691(a) §90.543(e) §90.543(f)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26-2015

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.

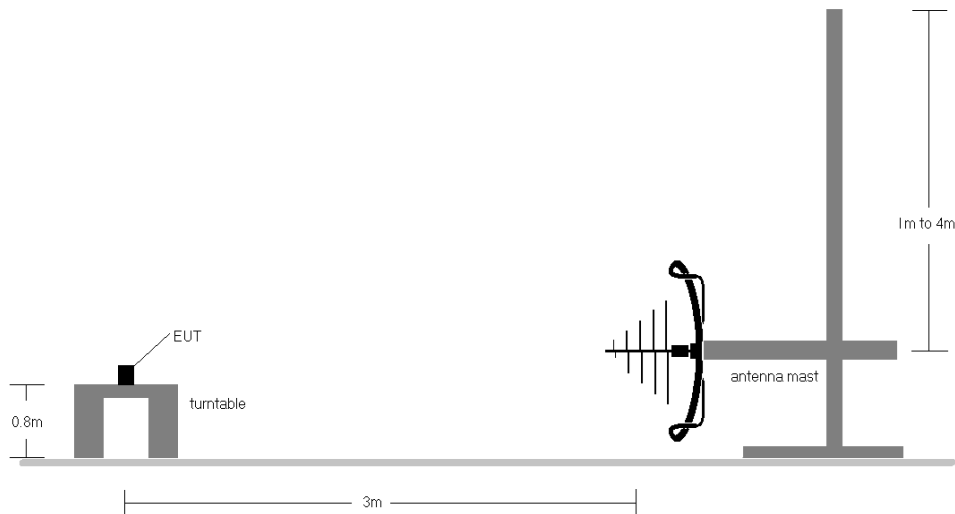


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

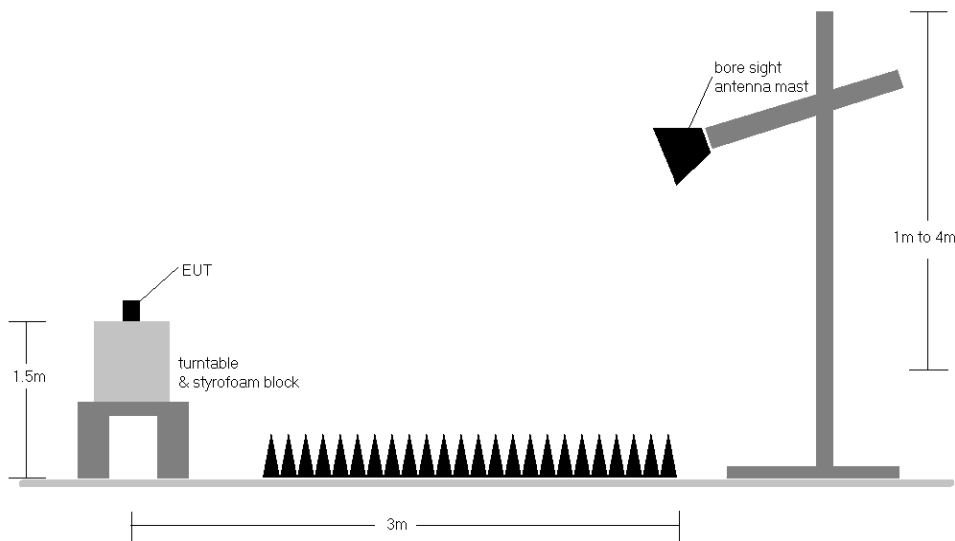


Figure 7-12. Test Instrument & Measurement Setup >1 GHz

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Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - 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 device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
3. This unit was tested with its standard battery.
4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
5. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
6. 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.
7. Pre-scan plots have been reported for the highest power antenna while measurements have been reported for all antennas.

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7.7.1 Antenna 4 – Radiated Spurious Emission Measurements

LTE Band 26

Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1633.0	H	145	352	-72.46	-2.88	31.66	-63.60	-13.00	-50.60
2449.5	V	-	-	-77.91	2.16	31.25	-64.01	-13.00	-51.01
3266.0	H	-	-	-78.54	3.46	31.92	-63.34	-13.00	-50.34
4082.5	H	-	-	-79.15	5.01	32.86	-62.39	-13.00	-49.39

Table 7-10. Antenna 4 Radiated Spurious Data (LTE Band 26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25

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]
1638.0	H	220	350	-73.96	-2.88	30.16	-65.09	-13.00	-52.09
2457.0	H	-	-	-77.76	2.09	31.33	-63.93	-13.00	-50.93
3276.0	V	-	-	-78.63	3.62	31.99	-63.27	-13.00	-50.27
4095.0	H	-	-	-79.23	5.07	32.85	-62.41	-13.00	-49.41

Table 7-11. Antenna 4 Radiated Spurious Data (LTE Band 26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1643.0	H	144	337	-74.22	-2.88	29.90	-65.36	-13.00	-52.36
2464.5	H	156	337	-77.57	2.16	31.59	-63.67	-13.00	-50.67
3286.0	V	-	-	-78.52	3.68	32.15	-63.11	-13.00	-50.11
4107.5	V	-	-	-79.12	5.07	32.95	-62.31	-13.00	-49.31
4929.0	H	-	-	-79.98	6.57	33.59	-61.66	-13.00	-48.66

Table 7-12. Antenna 4 Radiated Spurious Data (LTE Band 26 – High Channel)

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LTE Band 14

Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1581.0	H	-	-	-76.82	-3.24	26.94	-68.31	-40.00	-28.31
2371.5	H	-	-	-78.38	2.47	31.09	-64.17	-13.00	-51.17
3162.0	H	-	-	-79.06	4.08	32.02	-63.24	-13.00	-50.24

Table 7-13. Antenna 4 Radiated Spurious Data (LTE Band 14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25

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]
1586.0	H	189	354	-74.48	-3.24	29.28	-65.98	-40.00	-25.98
2379.0	H	-	-	-77.84	1.98	31.15	-64.11	-13.00	-51.11
3172.0	V	-	-	-78.89	3.76	31.87	-63.39	-13.00	-50.39
3965.0	V	-	-	-78.89	4.95	33.06	-62.20	-13.00	-49.20

Table 7-14. Antenna 4 Radiated Spurious Data (LTE Band 14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1591.0	H	-	-	-75.76	-3.24	28.00	-67.25	-40.00	-27.25
2386.5	V	-	-	-78.00	2.23	31.23	-64.03	-13.00	-51.03
3182.0	V	-	-	-78.31	3.08	31.76	-63.49	-13.00	-50.49

Table 7-15. Antenna 4 Radiated Spurious Data (LTE Band 14 – High Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT						Approved by: Technical Manager	
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NR Band n14

Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1581.0	H	-	-	-76.41	-3.23	27.36	-67.90	-40.00	-27.90
2371.5	H	-	-	-78.30	2.38	31.08	-64.18	-13.00	-51.18
3162.0	H	-	-	-79.02	4.02	32.00	-63.26	-13.00	-50.26

Table 7-16. Antenna 4 Radiated Spurious Data (NR Band n14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

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]
1586.0	H	-	-	-76.13	-3.24	27.63	-67.63	-40.00	-27.63
2379.0	H	-	-	-77.89	1.94	31.05	-64.21	-13.00	-51.21
3172.0	V	-	-	-79.23	4.02	31.79	-63.47	-13.00	-50.47

Table 7-17. Antenna 4 Radiated Spurious Data (NR Band n14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1591.0	H	-	-	-77.07	-3.24	26.69	-68.57	-40.00	-28.57
2386.5	V	-	-	-78.23	2.23	30.99	-64.26	-13.00	-51.26
3182.0	V	-	-	-78.73	3.46	31.73	-63.53	-13.00	-50.53

Table 7-18. Antenna 4 Radiated Spurious Data (NR Band n14 – High Channel)

FCC ID: BCGA3460	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26

Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1633.0	H	-	-	-77.10	-2.63	27.27	-67.99	-13.00	-54.99
2449.5	V	-	-	-77.80	1.16	30.36	-64.89	-13.00	-51.89
3266.0	H	-	-	-78.35	3.02	31.67	-63.59	-13.00	-50.59

Table 7-19. Antenna 4 Radiated Spurious Data (NR Band n26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

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]
1638.0	H	204	7	-71.22	-2.88	32.89	-62.36	-13.00	-49.36
2457.0	V	-	-	-77.86	2.16	31.30	-63.96	-13.00	-50.96
3276.0	V	-	-	-78.72	3.53	31.82	-63.44	-13.00	-50.44
4095.0	V	-	-	-79.12	5.07	32.95	-62.30	-13.00	-49.30

Table 7-20. Antenna 4 Radiated Spurious Data (NR Band n26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1643.0	H	207	0	-71.23	-2.88	32.89	-62.37	-13.00	-49.37
2464.5	V	-	-	-77.75	1.99	31.25	-64.01	-13.00	-51.01
3286.0	V	-	-	-78.58	3.56	31.98	-63.28	-13.00	-50.28
4107.5	V	-	-	-79.18	5.07	32.90	-62.36	-13.00	-49.36

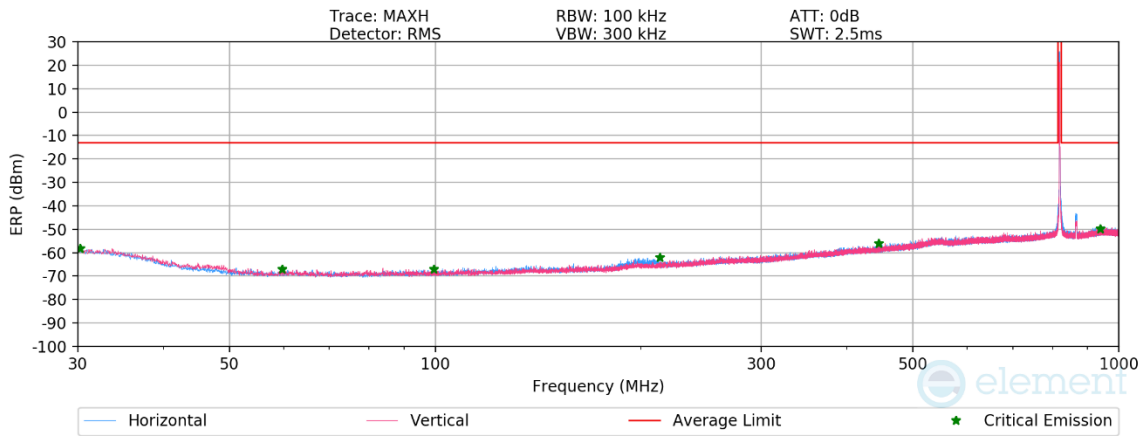
Table 7-21. Antenna 4 Radiated Spurious Data (NR Band n26 – High Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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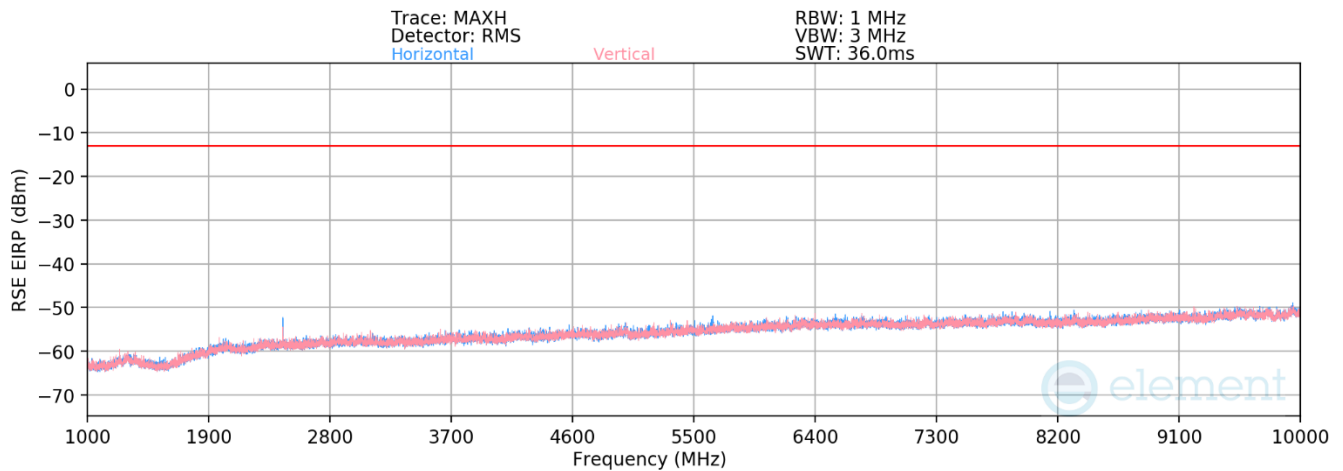
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7.7.2 Antenna 3b – Radiated Spurious Emission Measurements

LTE Band 26



Plot 7-121. Antenna 3b Radiated Spurious Plot Below 1GHz (LTE Band 26)



Plot 7-122. Antenna 3b Radiated Spurious Plot Above 1GHz (LTE Band 26)

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Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1633.0	H	-	-	-77.40	-2.37	27.22	-68.03	-13.00	-55.03
2449.5	V	281	113	-63.22	2.03	45.81	-49.45	-13.00	-36.45
3266.0	H	-	-	-78.65	3.56	31.91	-63.35	-13.00	-50.35
4082.5	H	-	-	-79.29	5.01	32.72	-62.54	-13.00	-49.54
4899.0	H	-	-	-80.03	6.68	33.65	-61.61	-13.00	-48.61

Table 7-22. Antenna 3b Radiated Spurious Data (LTE Band 26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25

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]
1638.0	H	-	-	-77.59	-2.37	27.03	-68.22	-13.00	-55.22
2457.0	V	248	326	-64.06	2.16	45.09	-50.16	-13.00	-37.16
3276.0	V	-	-	-78.62	3.56	31.94	-63.31	-13.00	-50.31
4095.0	H	-	-	-79.27	5.07	32.80	-62.45	-13.00	-49.45
4914.0	H	-	-	-79.78	6.57	33.79	-61.47	-13.00	-48.47

Table 7-23. Antenna 3b Radiated Spurious Data (LTE Band 26 – Mid Channel)

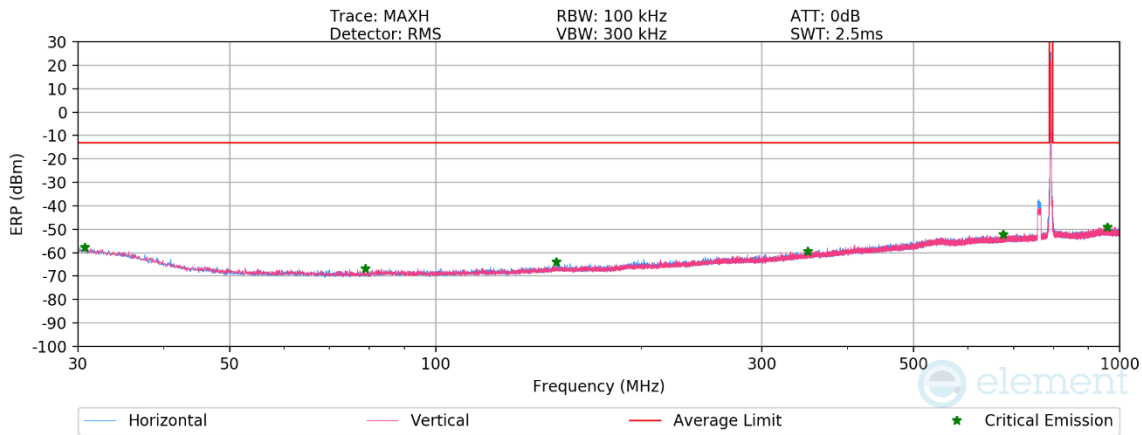
Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1643.0	H	-	-	-77.49	-2.37	27.14	-68.12	-13.00	-55.12
2464.5	V	248	322	-64.67	2.09	44.42	-50.84	-13.00	-37.84
3286.0	V	-	-	-78.61	3.68	32.07	-63.19	-13.00	-50.19
4107.5	H	-	-	-79.16	5.14	32.98	-62.28	-13.00	-49.28
4929.0	H	-	-	-79.98	6.74	33.76	-61.50	-13.00	-48.50

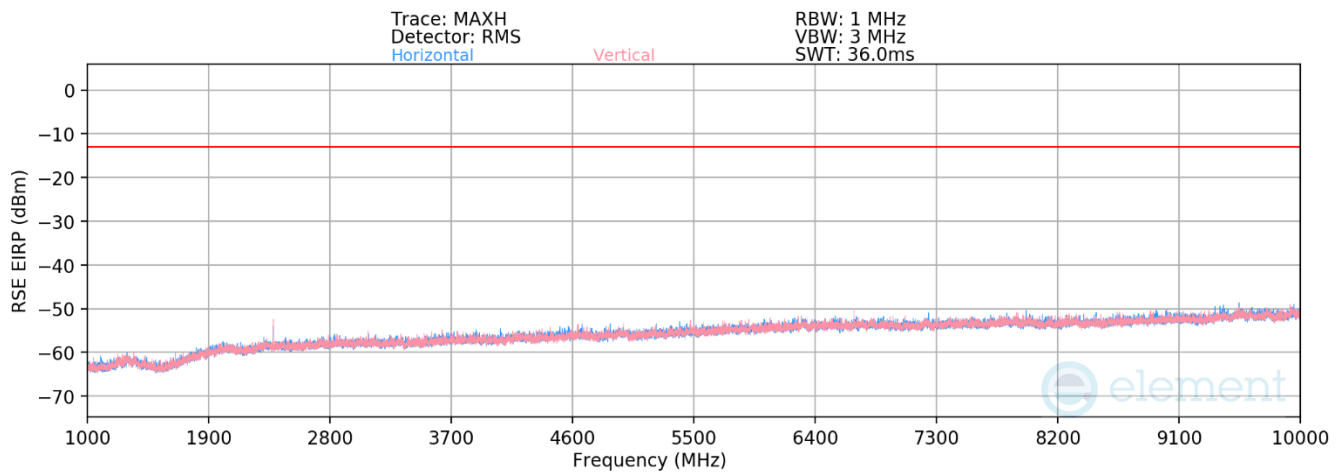
Table 7-24. Antenna 3b Radiated Spurious Data (LTE Band 26 – High Channel)

FCC ID: BCGA3460	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 14



Plot 7-123. Antenna 3b Radiated Spurious Plot Below 1GHz (LTE Band 14)



Plot 7-124. Antenna 3b Radiated Spurious Plot Above 1GHz (LTE Band 14)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1581.0	H	-	-	-77.21	-3.15	26.64	-68.62	-40.00	-28.62
2371.5	V	305	123	-63.92	2.23	45.31	-49.95	-13.00	-36.95
3162.0	V	-	-	-78.70	4.02	32.32	-62.94	-13.00	-49.94
3952.5	V	-	-	-79.20	4.99	32.79	-62.47	-13.00	-49.47
4743.0	H	-	-	-79.90	6.55	33.66	-61.60	-13.00	-48.60

Table 7-25. Antenna 3b Radiated Spurious Data (LTE Band 14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25

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]
1586.0	H	-	-	-77.30	-2.96	26.74	-68.52	-40.00	-28.52
2379.0	V	337	116	-63.36	2.03	45.68	-49.58	-13.00	-36.58
3172.0	H	-	-	-78.80	3.76	31.95	-63.30	-13.00	-50.30
3965.0	H	-	-	-79.28	4.99	32.71	-62.55	-13.00	-49.55
4758.0	H	-	-	-79.75	6.55	33.80	-61.46	-13.00	-48.46

Table 7-26. Antenna 3b Radiated Spurious Data (LTE Band 14 – Mid Channel)

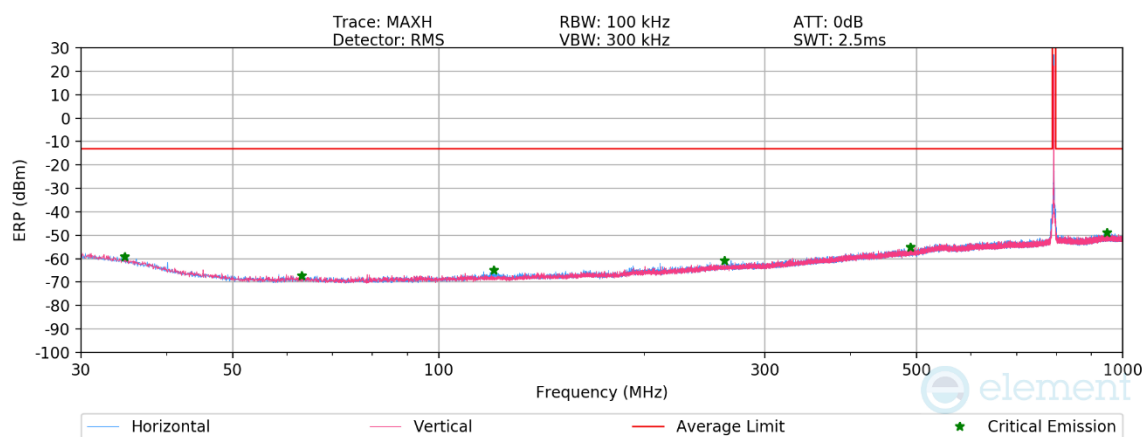
Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1591.0	H	-	-	-77.34	-2.96	26.70	-68.56	-40.00	-28.56
2386.5	V	316	128	-63.64	2.03	45.39	-49.87	-13.00	-36.87
3182.0	H	-	-	-78.81	3.46	31.65	-63.61	-13.00	-50.61
3977.5	H	-	-	-79.22	4.99	32.77	-62.48	-13.00	-49.48
4773.0	H	-	-	-79.96	6.52	33.56	-61.70	-13.00	-48.70

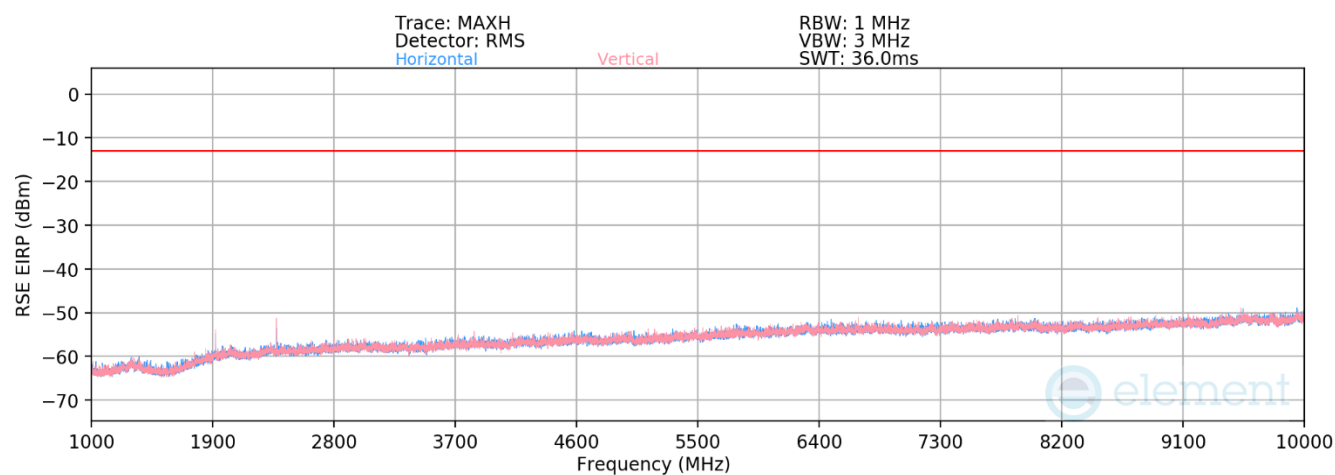
Table 7-27. Antenna 3b Radiated Spurious Data (LTE Band 14 – High Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n14



Plot 7-125. Antenna 3b Radiated Spurious Plot Below 1GHz (NR Band n14)



Plot 7-126. Antenna 3b Radiated Spurious Plot Above 1GHz (NR Band n14)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1581.0	V	-	-	-75.57	-3.24	28.19	-67.07	-40.00	-27.07
2371.5	V	332	124	-63.67	2.23	45.56	-49.70	-13.00	-36.70
3162.0	V	-	-	-79.11	4.02	31.91	-63.35	-13.00	-50.35
3952.5	V	-	-	-79.21	4.99	32.78	-62.48	-13.00	-49.48
4743.0	V	-	-	-79.69	6.55	33.86	-61.39	-13.00	-48.39

Table 7-28. Antenna 3b Radiated Spurious Data (NR Band n14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

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]
1586.0	V	-	-	-76.52	-3.24	27.24	-68.01	-40.00	-28.01
2379.0	V	293	125	-63.79	2.03	45.24	-50.01	-13.00	-37.01
3172.0	V	-	-	-79.27	4.02	31.75	-63.51	-13.00	-50.51
3965.0	H	-	-	-79.25	4.95	32.70	-62.56	-13.00	-49.56
4758.0	V	-	-	-79.95	6.52	33.57	-61.69	-13.00	-48.69

Table 7-29. Antenna 3b Radiated Spurious Data (NR Band n14 – Mid Channel)

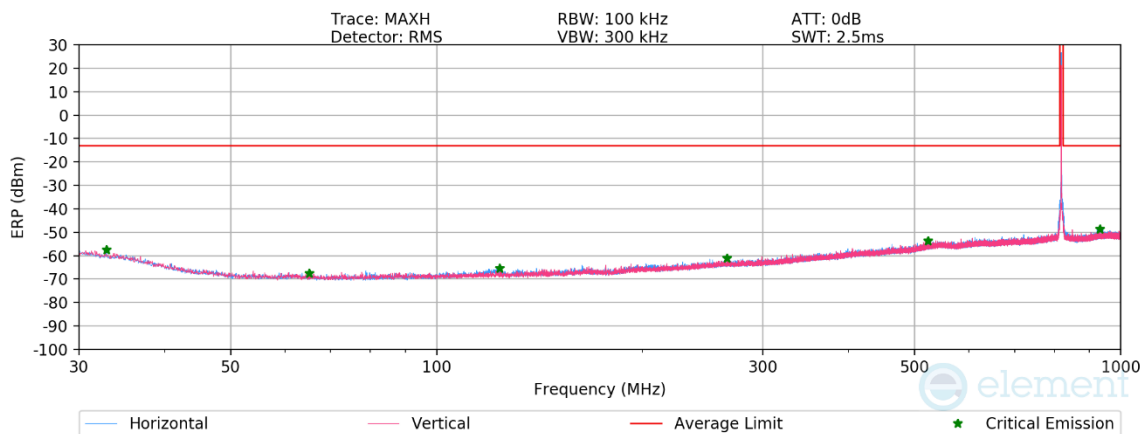
Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1591.0	V	-	-	-75.66	-3.24	28.10	-67.16	-40.00	-27.16
2386.5	V	375	123	-63.70	2.03	45.33	-49.93	-13.00	-36.93
3182.0	V	-	-	-78.99	3.46	31.46	-63.80	-13.00	-50.80
3977.5	V	-	-	-79.29	4.90	32.61	-62.64	-13.00	-49.64
4773.0	V	-	-	-80.07	6.52	33.45	-61.81	-13.00	-48.81

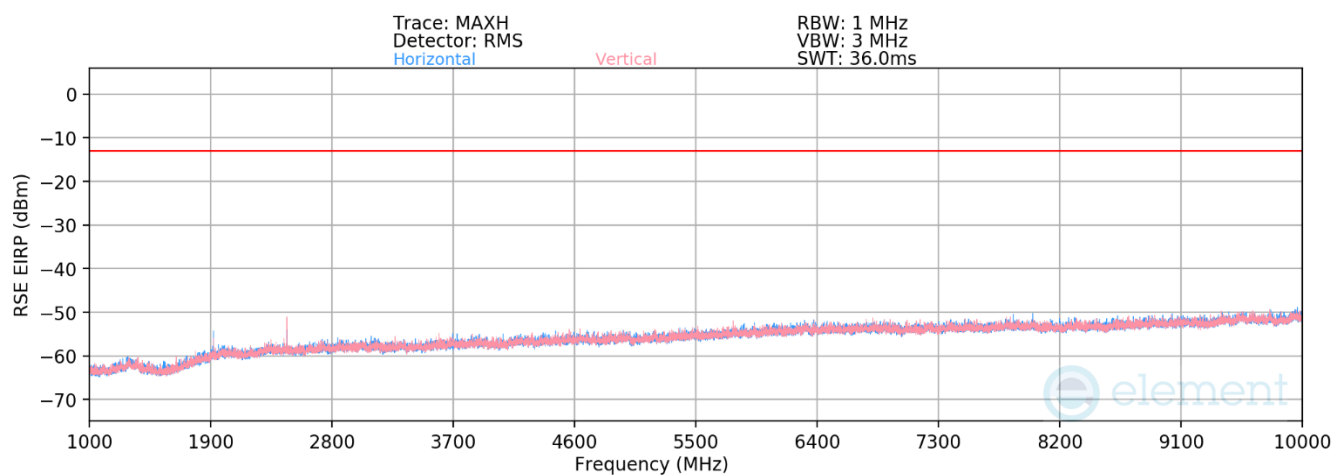
Table 7-30. Antenna 3b Radiated Spurious Data (NR Band n14 – High Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n26



Plot 7-127. Antenna 3b Radiated Spurious Plot Below 1GHz (NR Band n26)



Plot 7-128. Antenna 3b Radiated Spurious Plot Above 1GHz (NR Band n26)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1633.0	V	-	-	-76.64	-2.88	27.48	-67.78	-13.00	-54.78
2449.5	V	311	118	-62.76	2.03	46.27	-48.99	-13.00	-35.99
3266.0	H	-	-	-78.36	3.29	31.93	-63.33	-13.00	-50.33
4082.5	V	-	-	-79.38	5.01	32.63	-62.63	-13.00	-49.63
4899.0	V	-	-	-79.96	6.85	33.88	-61.38	-13.00	-48.38

Table 7-31. Antenna 3b Radiated Spurious Data (NR Band n26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

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]
1638.0	V	-	-	-76.52	-2.88	27.60	-67.66	-13.00	-54.66
2457.0	V	346	126	-63.21	2.16	45.95	-49.31	-13.00	-36.31
3276.0	V	-	-	-78.57	3.56	31.99	-63.27	-13.00	-50.27
4095.0	V	-	-	-79.22	5.07	32.85	-62.41	-13.00	-49.41
4914.0	V	-	-	-80.01	6.57	33.56	-61.70	-13.00	-48.70

Table 7-32. Antenna 3b Radiated Spurious Data (NR Band n26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1643.0	V	-	-	-76.42	-2.88	27.70	-67.56	-13.00	-54.56
2464.5	V	338	122	-62.12	2.09	46.97	-48.29	-13.00	-35.29
3286.0	H	-	-	-78.66	3.68	32.02	-63.24	-13.00	-50.24
4107.5	H	-	-	-79.16	5.14	32.97	-62.28	-13.00	-49.28
4929.0	V	-	-	-79.93	6.57	33.64	-61.62	-13.00	-48.62

Table 7-33. Antenna 3b Radiated Spurious Data (NR Band n26 – High Channel)

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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7.8 Frequency Stability / Temperature Variation

\$2.1055 \$90.213

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 LTE Band 26 and NR Band n26, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For LTE Band 14 and NR Band n14 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

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

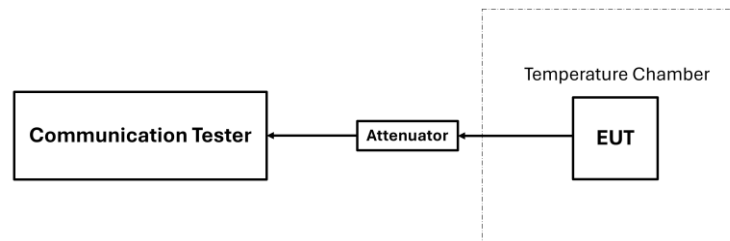


Figure 7-13. LTE Test Instrument & Measurement Setup

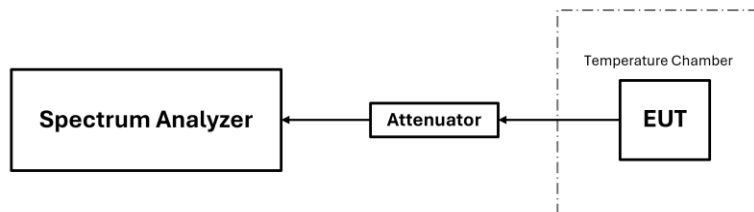


Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

All ports were tested and only the worst case data were reported.

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Frequency Stability / Temperature Variation

LTE Band 26					
		Operating Frequency (GHz):		0.819	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
100 %	3.80	- 30	0.818999985	-0.000000027	-0.000003297
		- 20	0.819000154	0.000000142	0.000017338
		- 10	0.818999921	-0.000000091	-0.000011111
		0	0.819000077	0.000000065	0.000007937
		+ 10	0.818999874	-0.000000138	-0.000016850
		+ 20 (Ref)	0.819000012	0.000000000	0.000000000
		+ 30	0.819000005	-0.000000007	-0.000000855
		+ 40	0.819000125	0.000000113	0.000013797
		+ 50	0.818999956	-0.000000056	-0.000006838
Battery Endpoint	3.40	+ 20	0.819000101	0.000000089	0.000010867

Table 7-34. LTE Band 26 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 14				
Operating Band Lower Boundary (GHz)		0.788		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.788736251	-0.000736251
		- 20	0.788184903	-0.000184903
		- 10	0.788965470	-0.000965470
		0	0.788427635	-0.000427635
		+ 10	0.788091284	-0.000091284
		+ 20 (Ref)	0.788698571	-0.000698571
		+ 30	0.788532106	-0.000532106
		+ 40	0.788374952	-0.000374952
		+ 50	0.788824317	-0.000824317
Battery Endpoint	3.40	+ 20	0.788259048	-0.000259048

Table 7-35. LTE Band 14 Lower Boundary Frequency Stability Data

LTE Band 14				
Operating Band Upper Boundary (GHz)		0.798		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.797832495	-0.000167505
		- 20	0.797146280	-0.000853720
		- 10	0.797624951	-0.000375049
		0	0.797938702	-0.000061298
		+ 10	0.797281537	-0.000718463
		+ 20 (Ref)	0.797472816	-0.000527184
		+ 30	0.797059374	-0.000940626
		+ 40	0.797715203	-0.000284797
		+ 50	0.797583941	-0.000416059
Battery Endpoint	3.40	+ 20	0.797308652	-0.000691348

Table 7-36. LTE Band 14 Upper Boundary Frequency Stability Data

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n26					
		Operating Frequency (GHz):		0.819	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
100 %	3.80	- 30	0.818999920	-0.000000122	-0.000014896
		- 20	0.819000179	0.000000137	0.000016728
		- 10	0.818999968	-0.000000074	-0.000009035
		0	0.819000060	0.000000018	0.000002198
		+ 10	0.819000134	0.000000092	0.000011233
		+ 20 (Ref)	0.819000042	0.000000000	0.000000000
		+ 30	0.819000191	0.000000149	0.000018193
		+ 40	0.818999977	-0.000000065	-0.000007937
		+ 50	0.819000086	0.000000044	0.000005372
Battery Endpoint	3.40	+ 20	0.818999945	-0.000000097	-0.000011844

Table 7-37. NR Band n26 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n14				
Operating Band Lower Boundary (GHz)			0.788	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.788612784	-0.000612784
		- 20	0.788083571	-0.000083571
		- 10	0.788904256	-0.000904256
		0	0.788315947	-0.000315947
		+ 10	0.788749182	-0.000749182
		+ 20 (Ref)	0.788267530	-0.000267530
		+ 30	0.788981634	-0.000981634
		+ 40	0.788536298	-0.000536298
		+ 50	0.788180423	-0.000180423
Battery Endpoint	3.40	+ 20	0.788698751	-0.000698751

Table 7-38. NR Band n14 Lower Boundary Frequency Stability Data

NR Band n14				
Operating Band Upper Boundary (GHz)			0.798	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.797429856	-0.000570144
		- 20	0.797983214	-0.000016786
		- 10	0.797152637	-0.000847363
		0	0.797846905	-0.000153095
		+ 10	0.797327591	-0.000672409
		+ 20 (Ref)	0.797094382	-0.000905618
		+ 30	0.797615728	-0.000384272
		+ 40	0.797238560	-0.000761440
		+ 50	0.797704193	-0.000295807
Battery Endpoint	3.40	+ 20	0.797561082	-0.000438918

Table 7-39. NR Band n14 Upper Boundary Frequency Stability Data

FCC ID: BCGA3460		PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA3460** complies with all the requirements of Part 90 of the FCC rules.

FCC ID: BCGA3460	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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