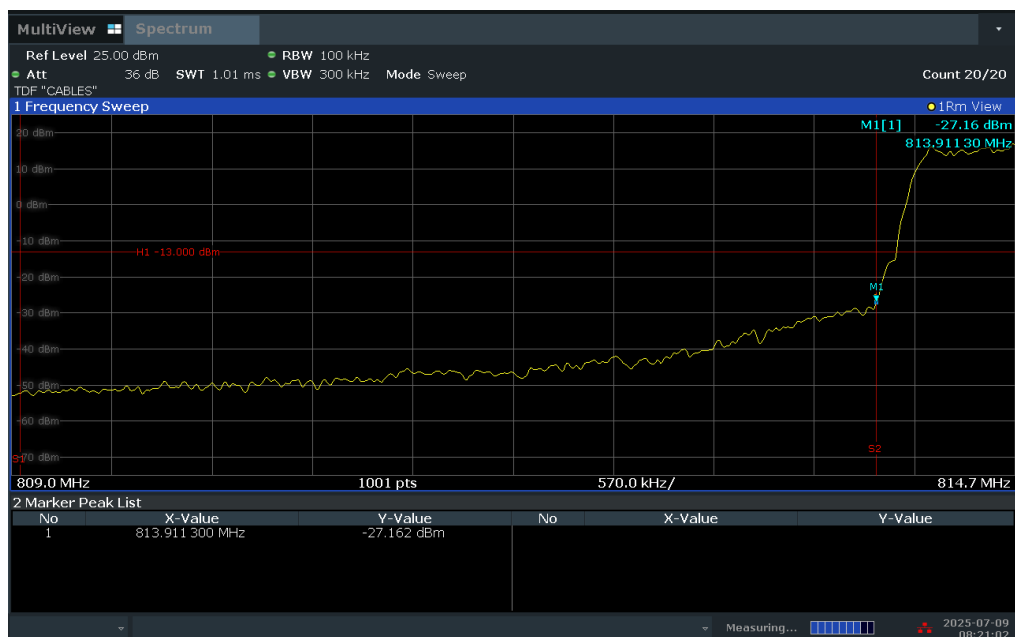
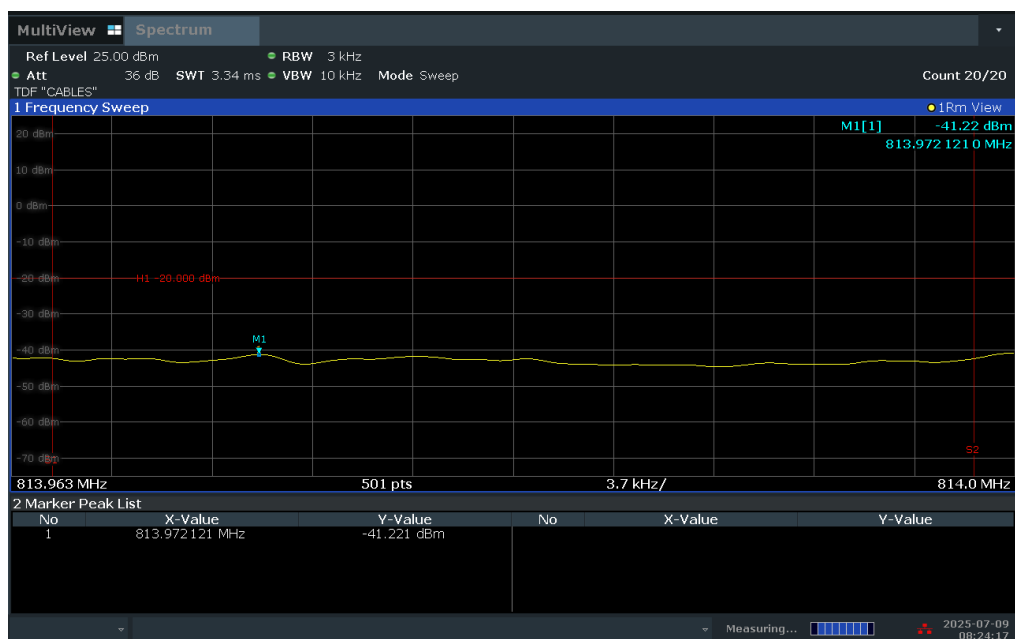


LTE Band 26



08:21:03 AM 07/09/2025

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



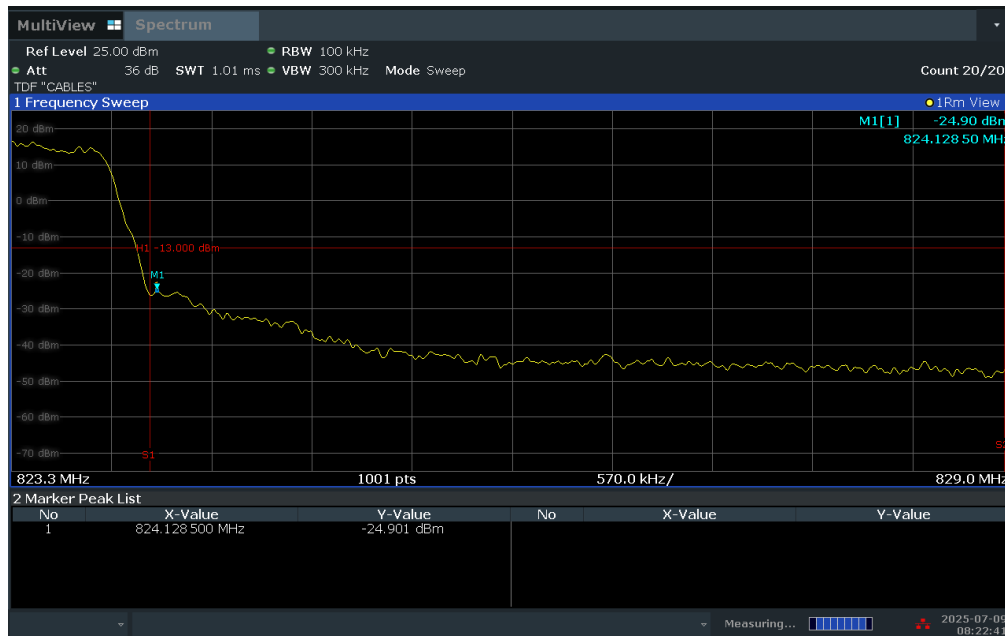
08:24:18 AM 07/09/2025

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

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 62 of 109

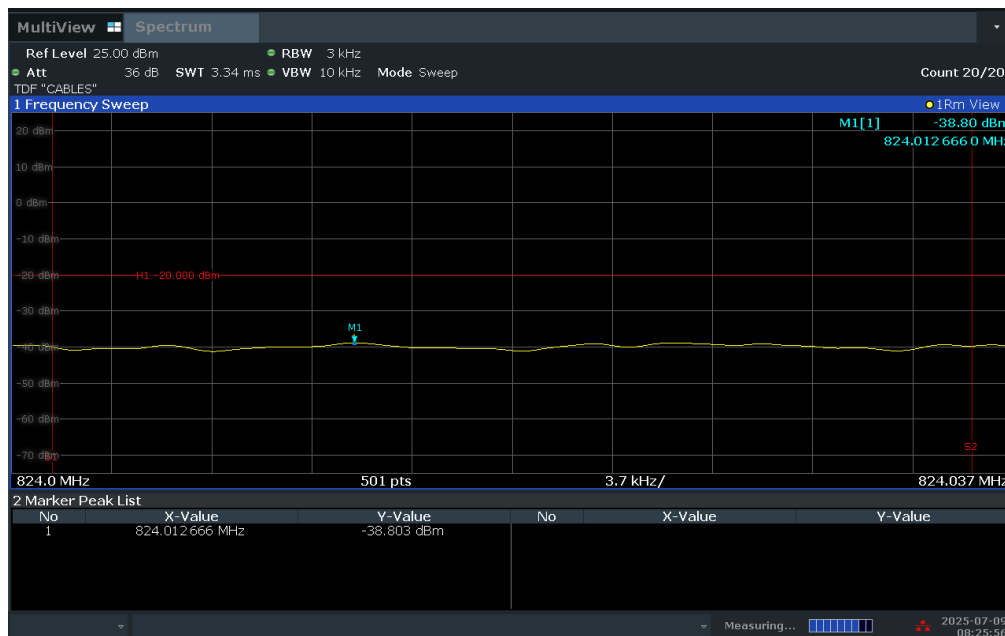
V2.2 09/07/2023

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08:22:42 AM 07/09/2025

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



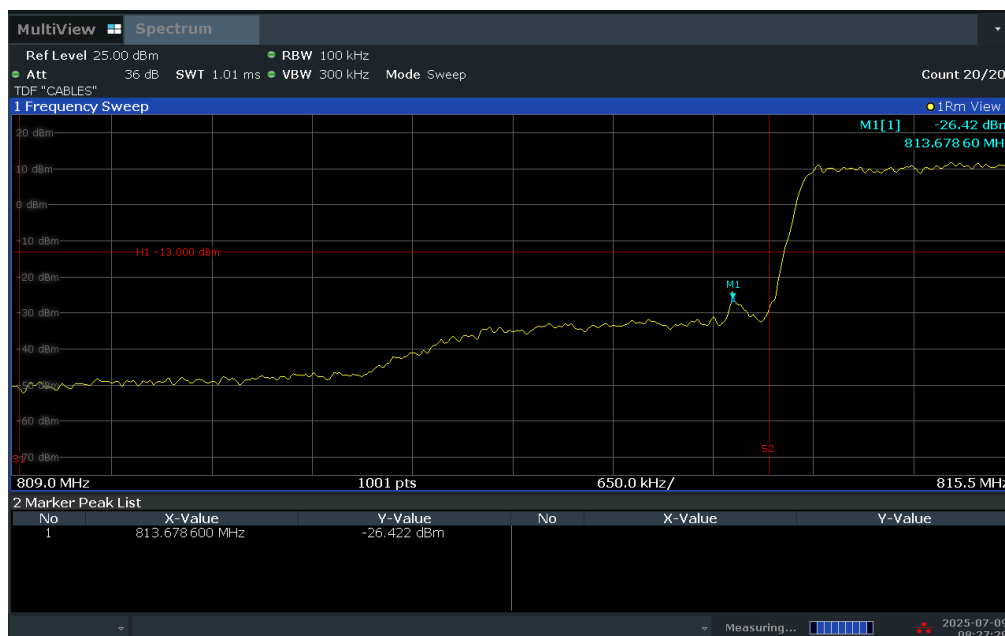
08:25:56 AM 07/09/2025

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

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 63 of 109

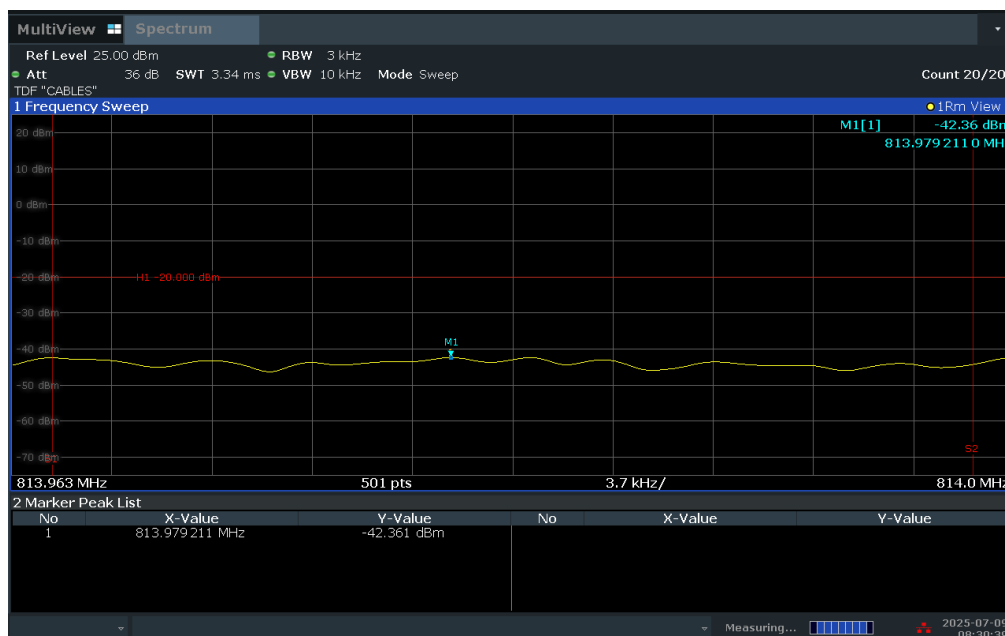
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08:27:30 AM 07/09/2025

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



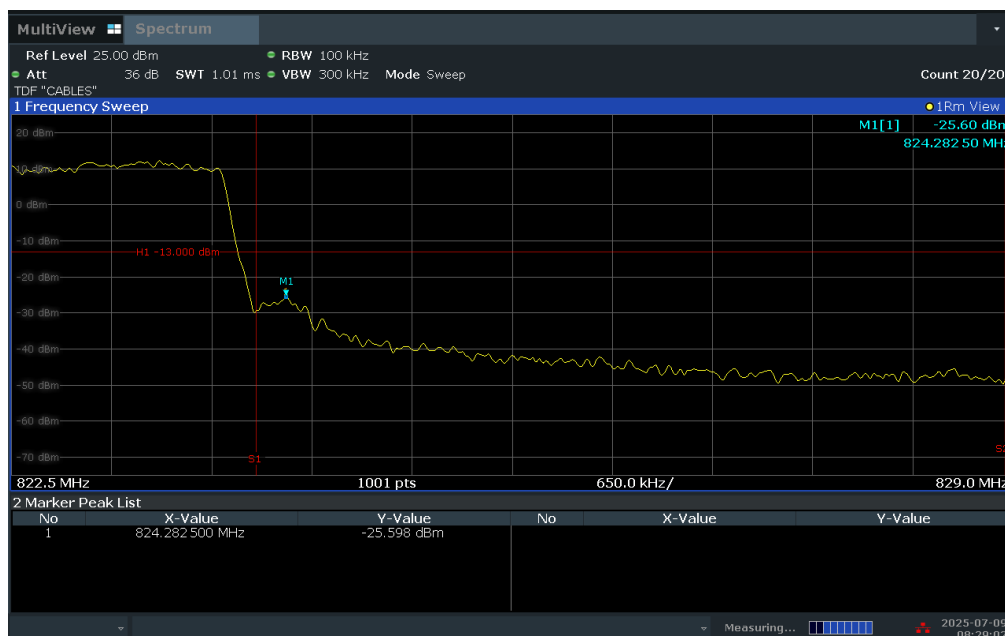
08:30:40 AM 07/09/2025

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

FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 64 of 109

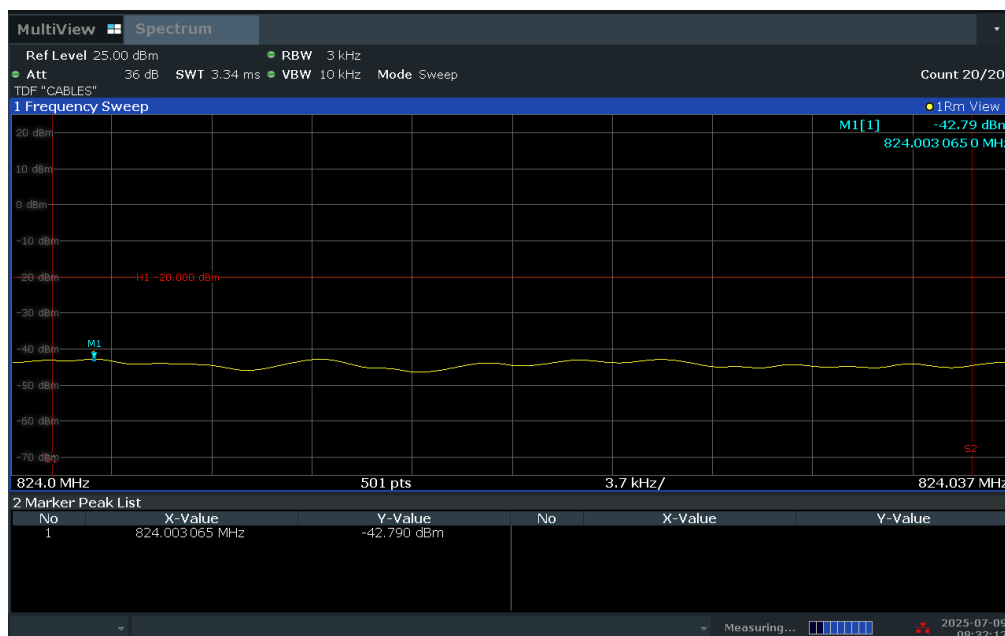
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08:29:03 AM 07/09/2025

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



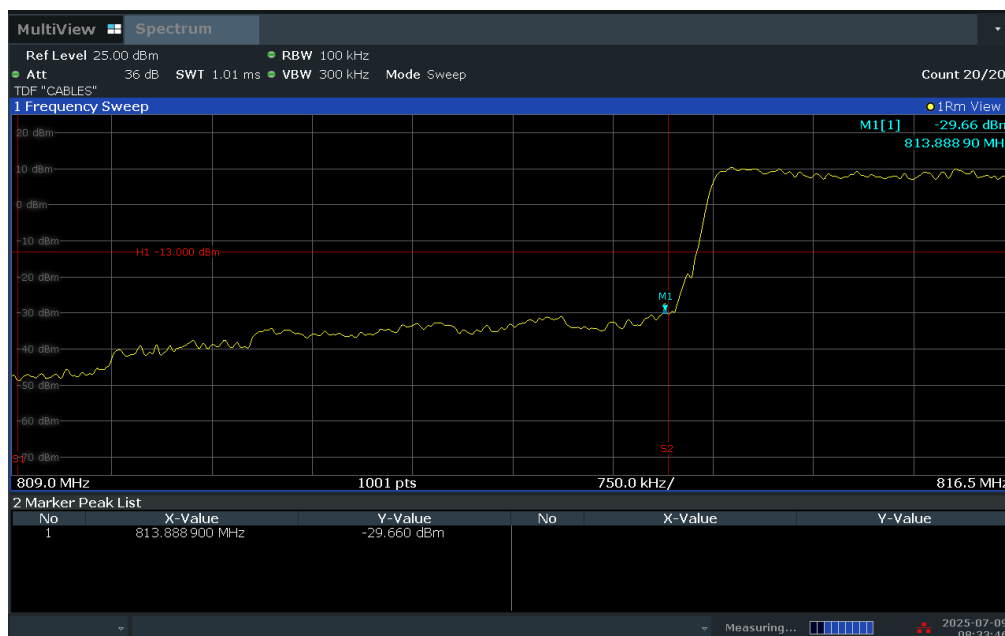
08:32:13 AM 07/09/2025

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

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 65 of 109

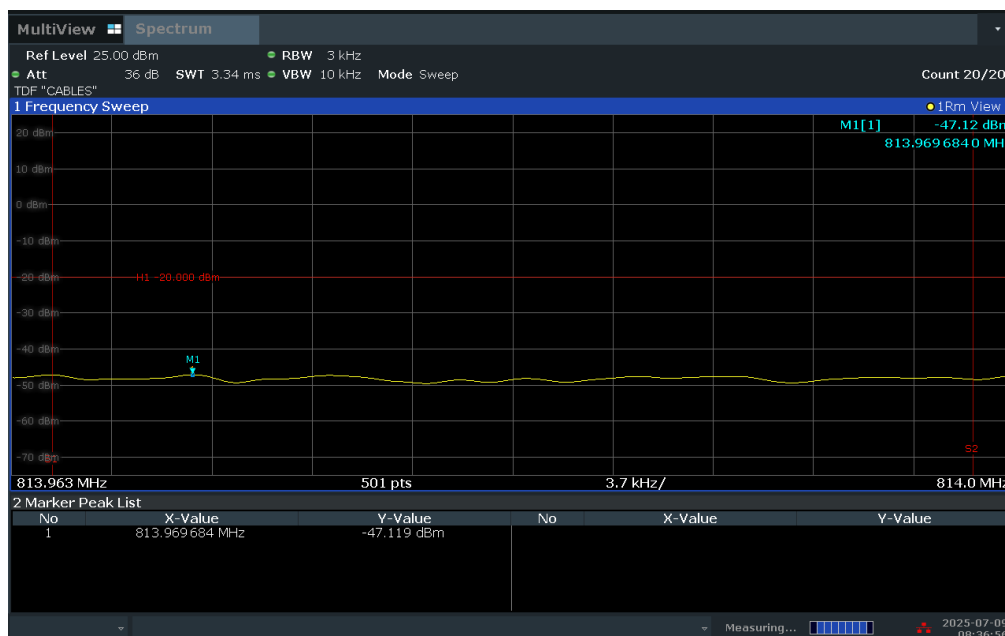
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08:33:46 AM 07/09/2025

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



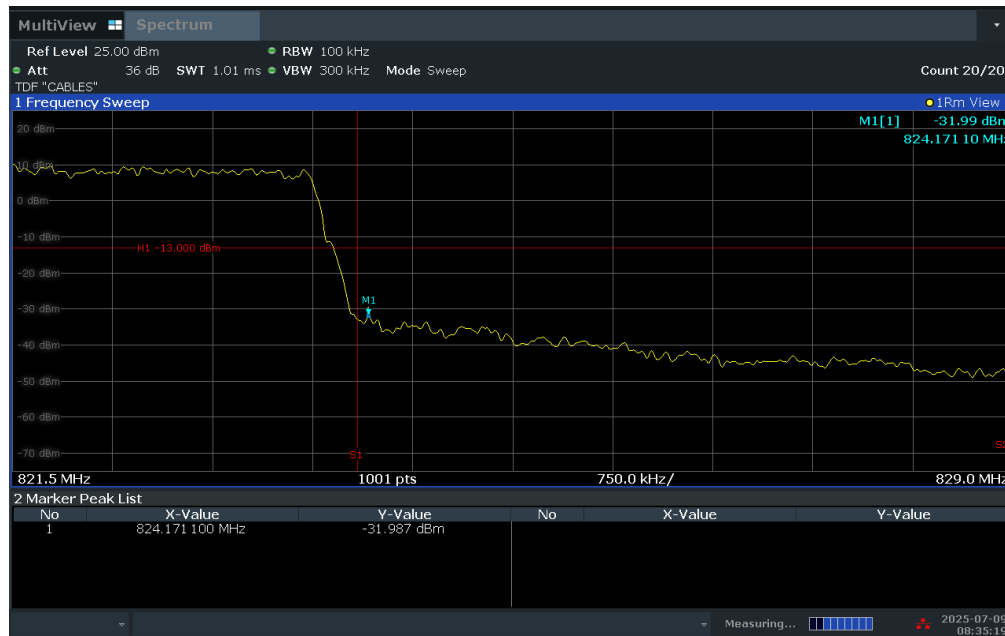
08:36:57 AM 07/09/2025

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

FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 66 of 109

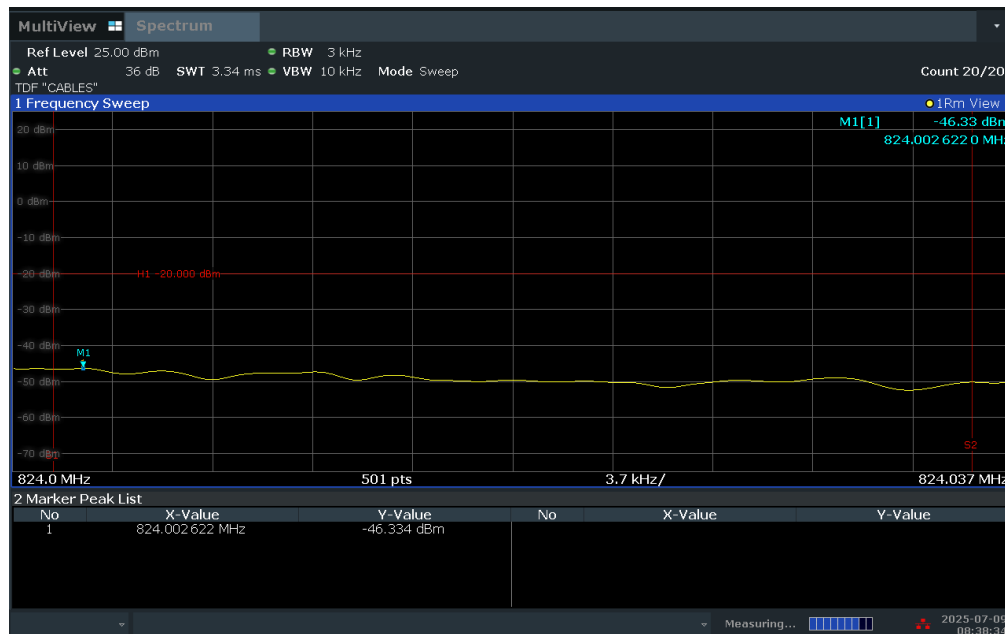
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08:35:20 AM 07/09/2025

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



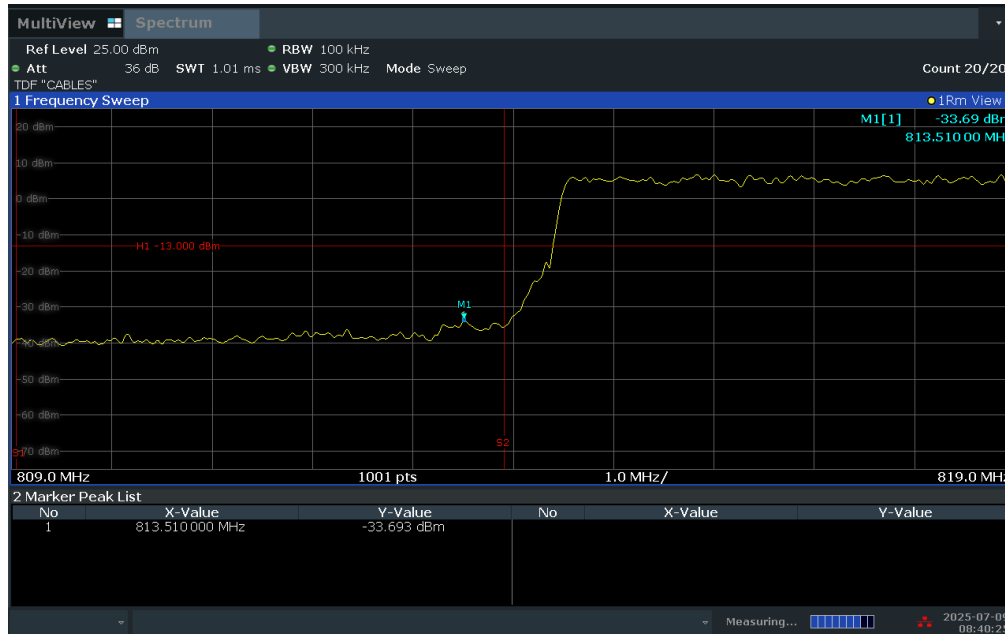
08:38:35 AM 07/09/2025

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

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 67 of 109

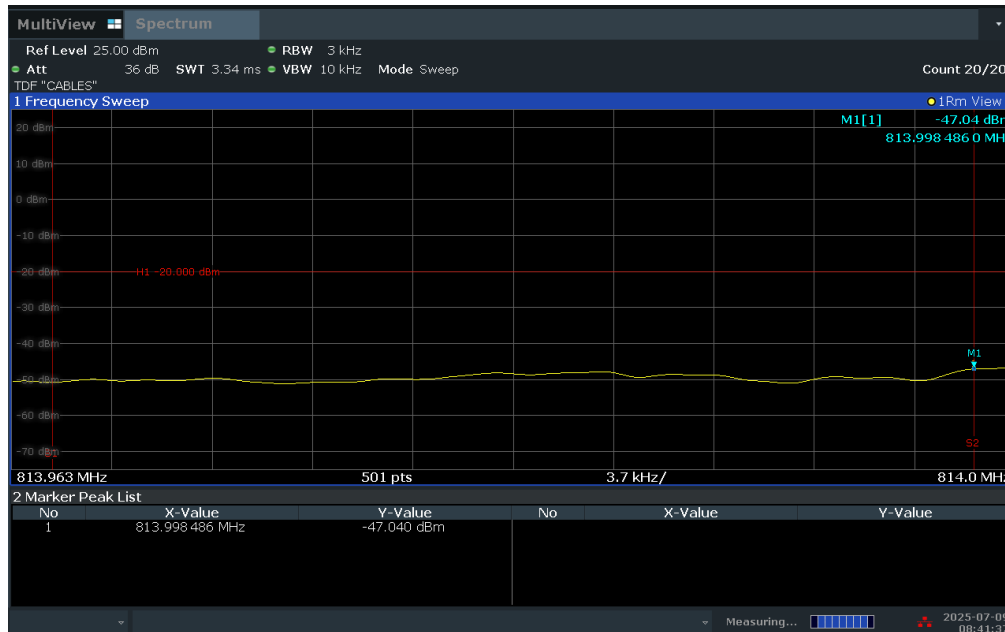
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08:40:26 AM 07/09/2025

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



08:41:38 AM 07/09/2025

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

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 68 of 109

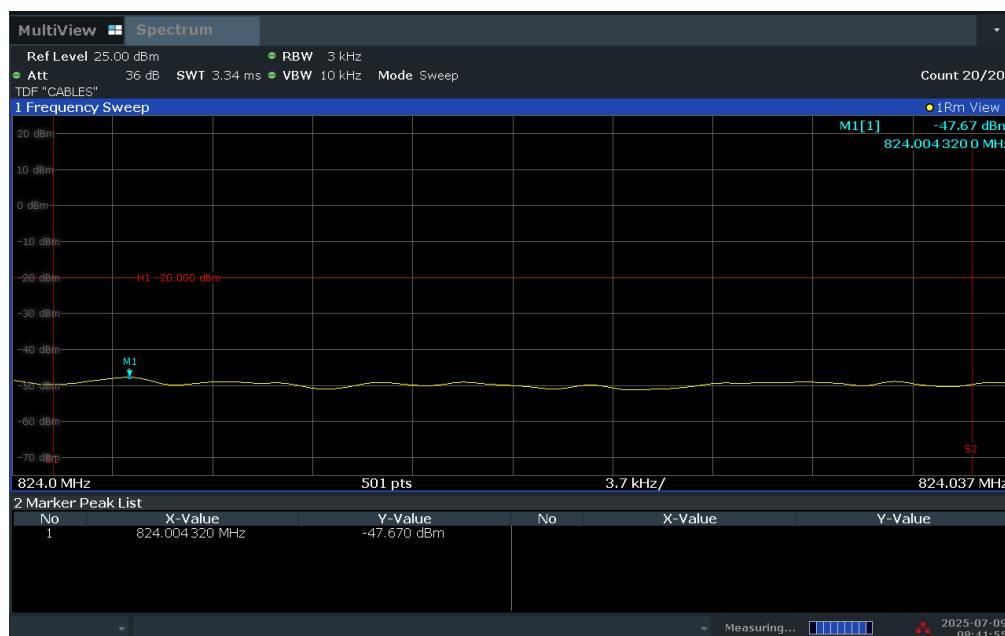
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08:40:44 AM 07/09/2025

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



08:41:56 AM 07/09/2025

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

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 69 of 109

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LTE Band 14



09:02:27 AM 07/09/2025

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



09:02:44 AM 07/09/2025

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

FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 70 of 109

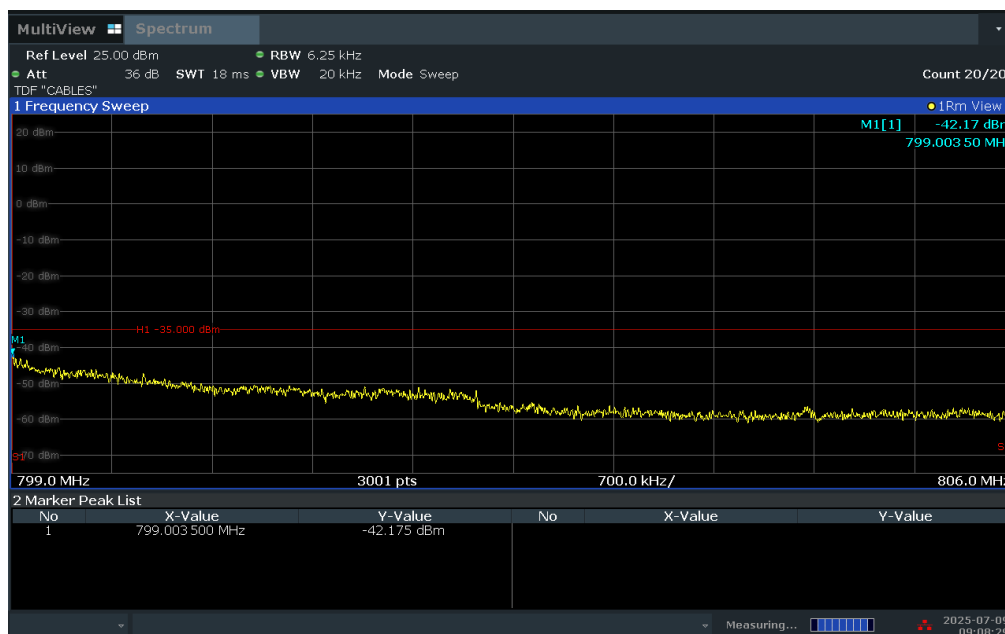
V2.2 09/07/2023

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09:07:54 AM 07/09/2025

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



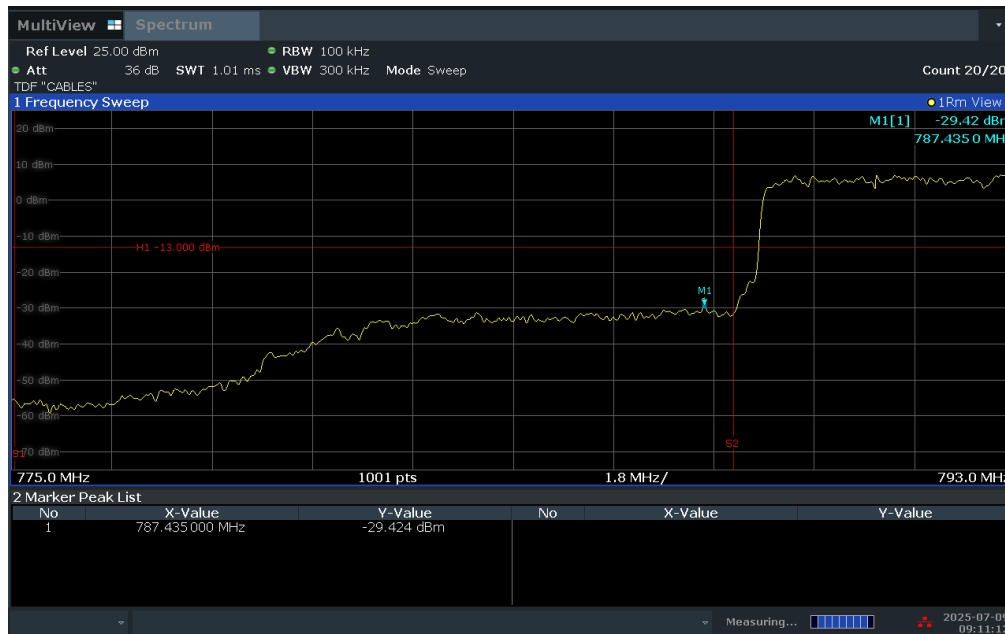
09:08:30 AM 07/09/2025

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

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 71 of 109

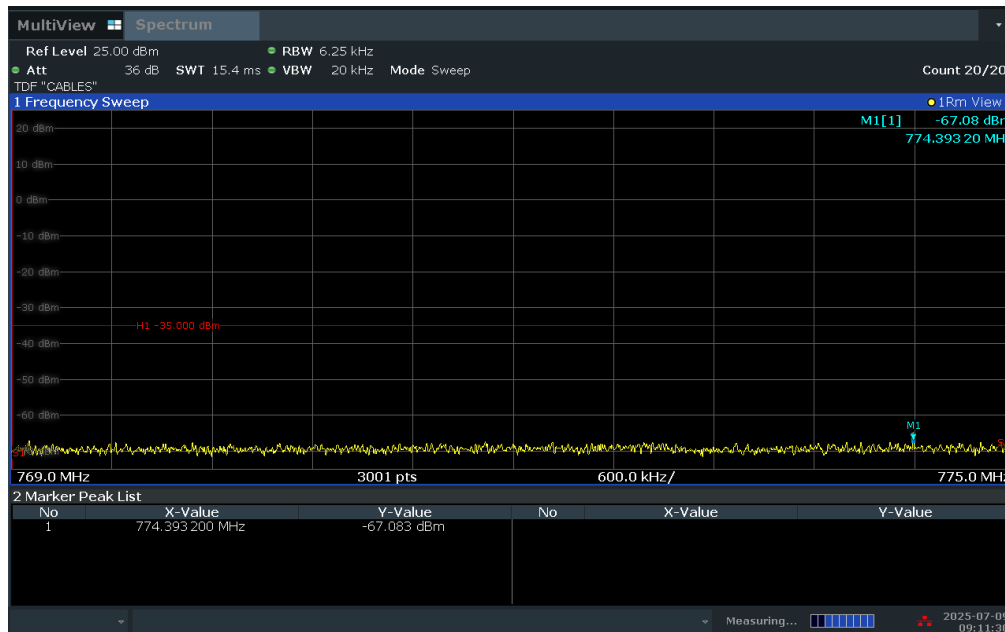
V2.2 09/07/2023

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09:11:13 AM 07/09/2025

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



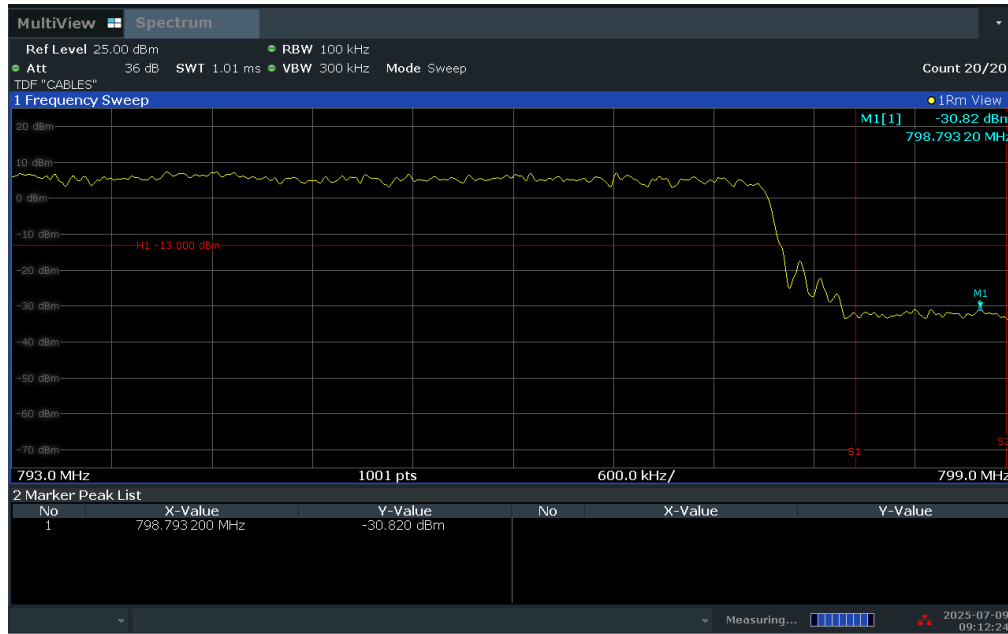
09:11:31 AM 07/09/2025

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

FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 72 of 109

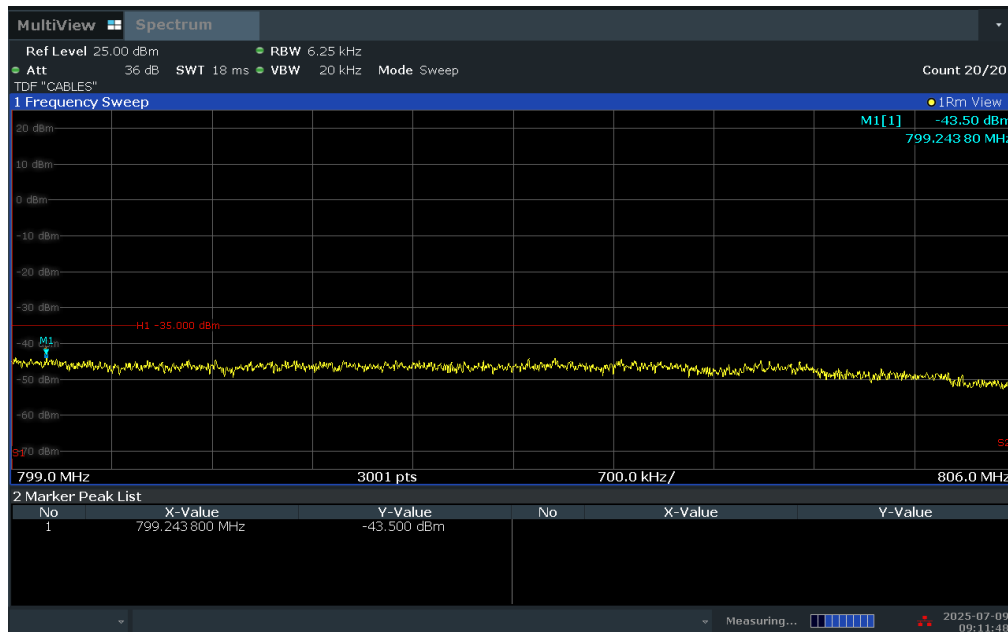
V2.2 09/07/2023

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09:12:25 AM 07/09/2025

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



09:11:49 AM 07/09/2025

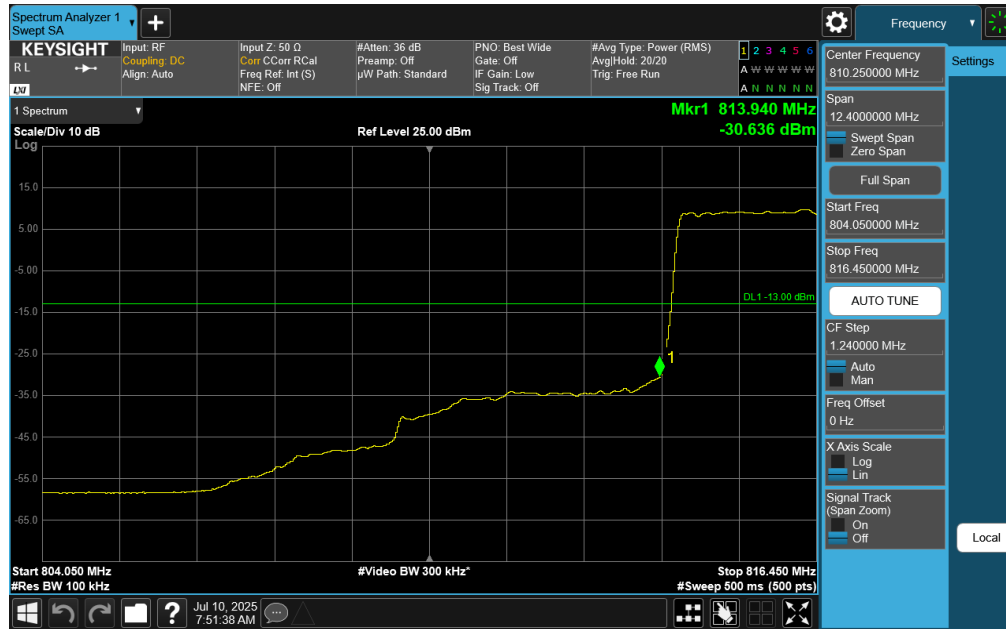
Plot 7-104. Upper Emission Mask Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)

FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 73 of 109

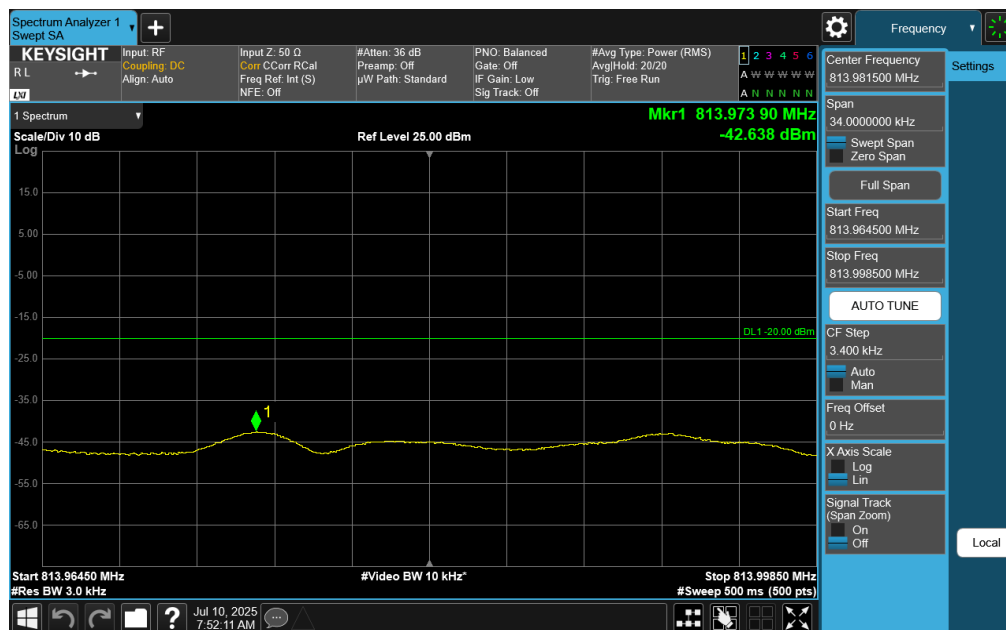
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NR Band n26



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)

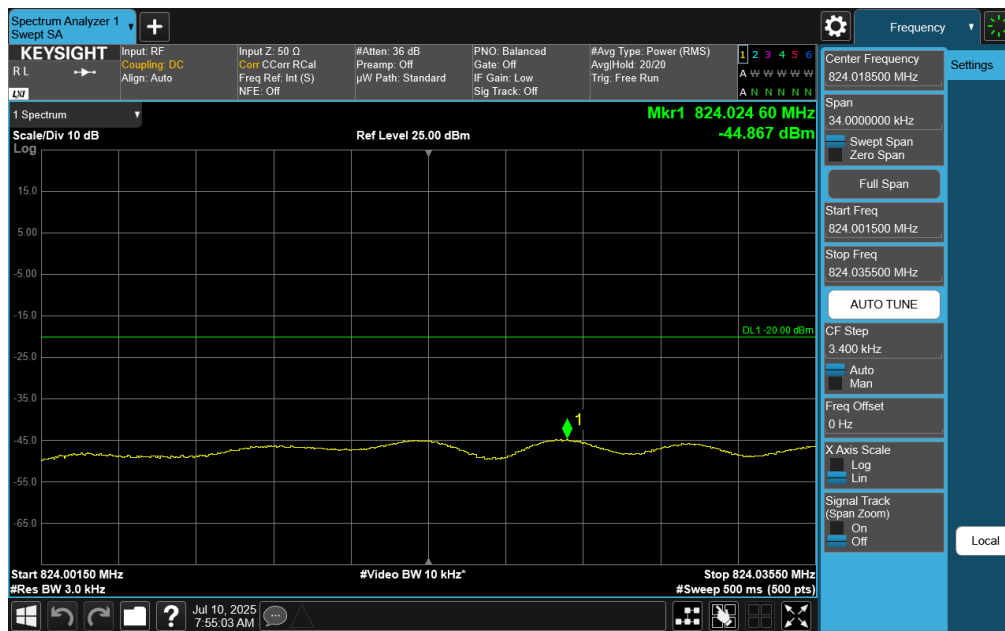
FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device
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Plot 7-107. Upper Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – High Channel)

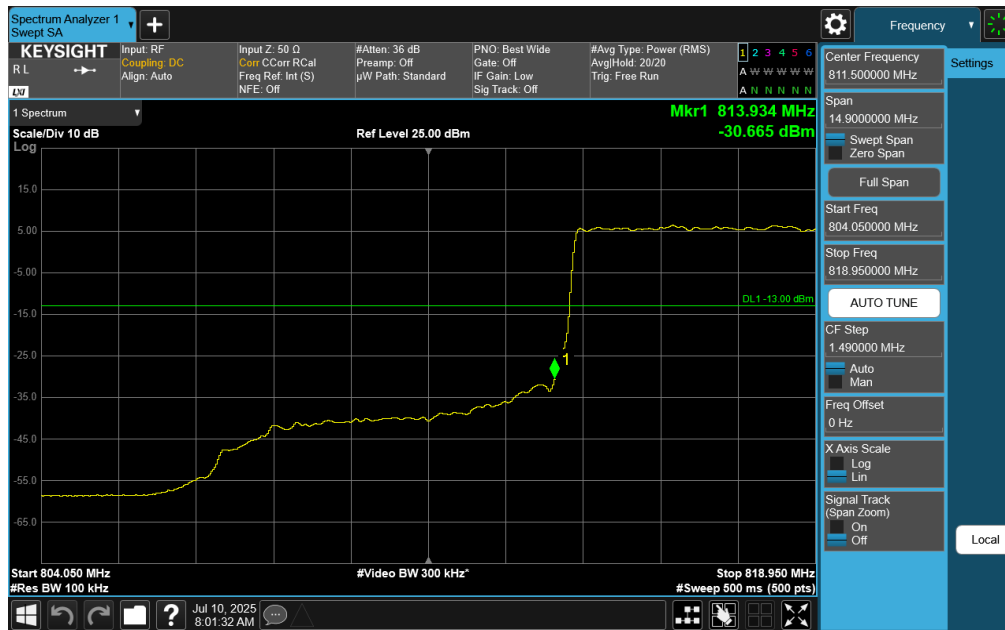


Plot 7-108. Extended Upper Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – High Channel)

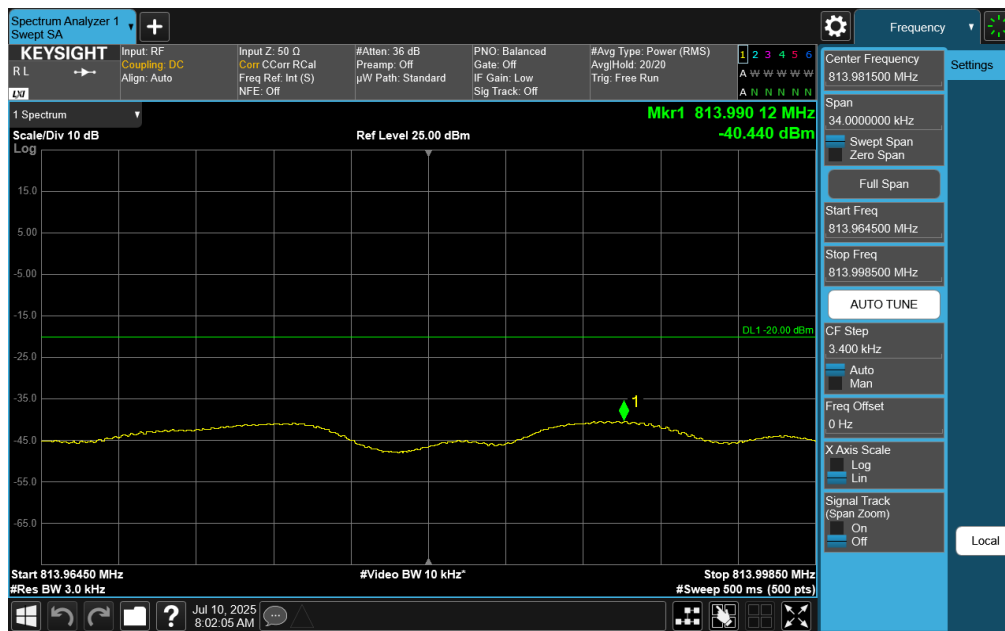
FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device
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Plot 7-109. Lower Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – Low Channel)



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

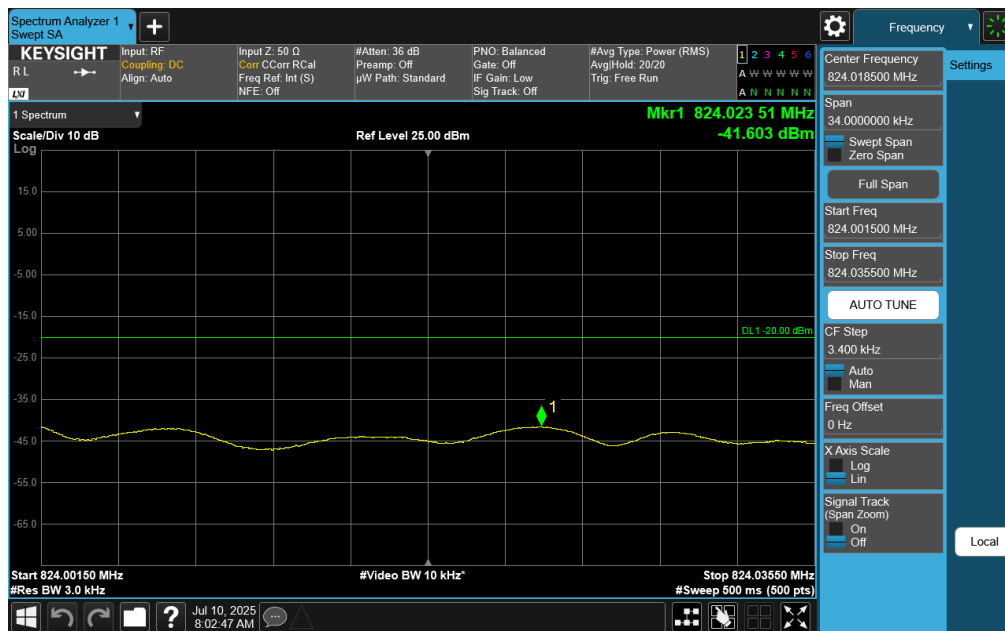
FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device
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Plot 7-111. Upper Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – High Channel)



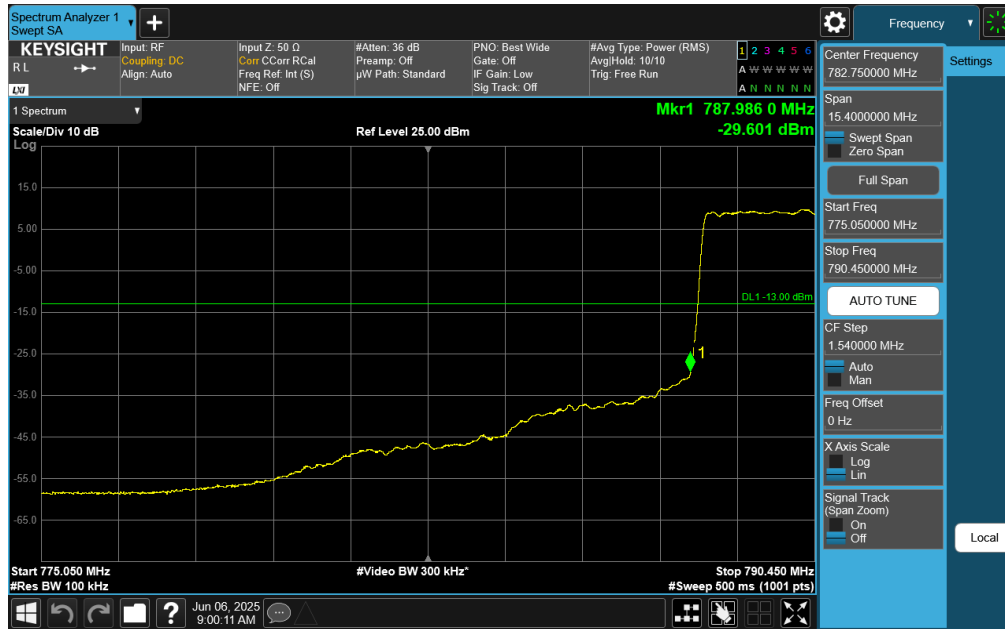
Plot 7-112. Extended Upper Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – High Channel)

FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device
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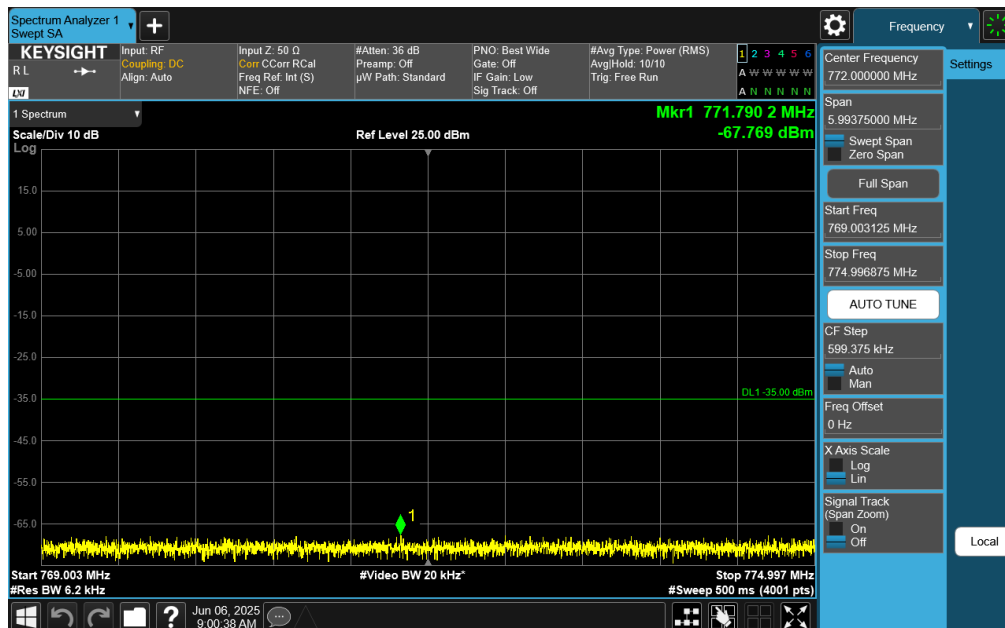
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NR Band n14



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

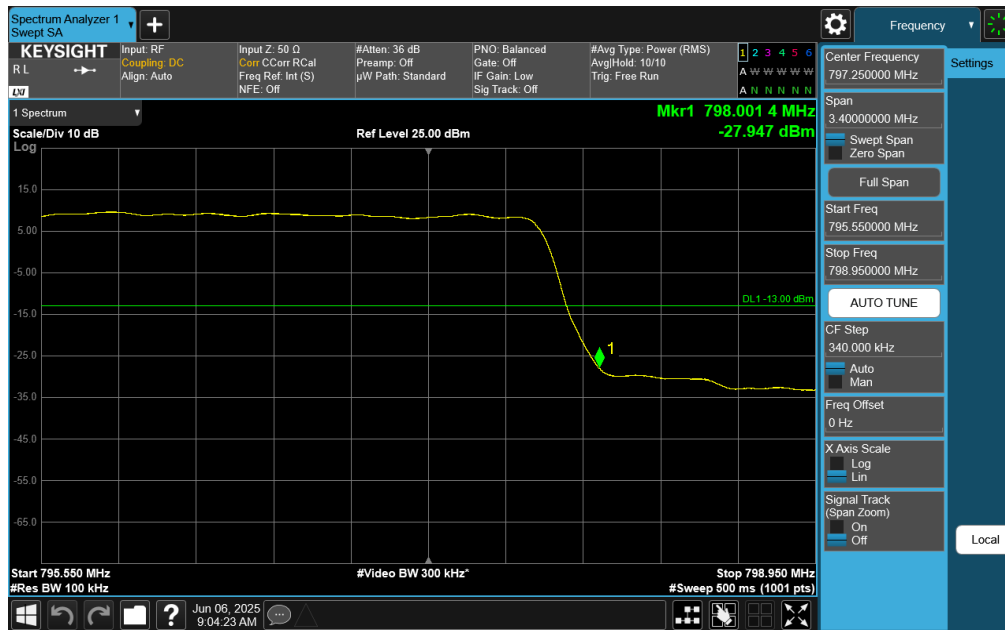


Plot 7-114. Lower Emission Mask Plot (NR Band n14 - 5MHz CP-OFDM QPSK – RB Size 25)

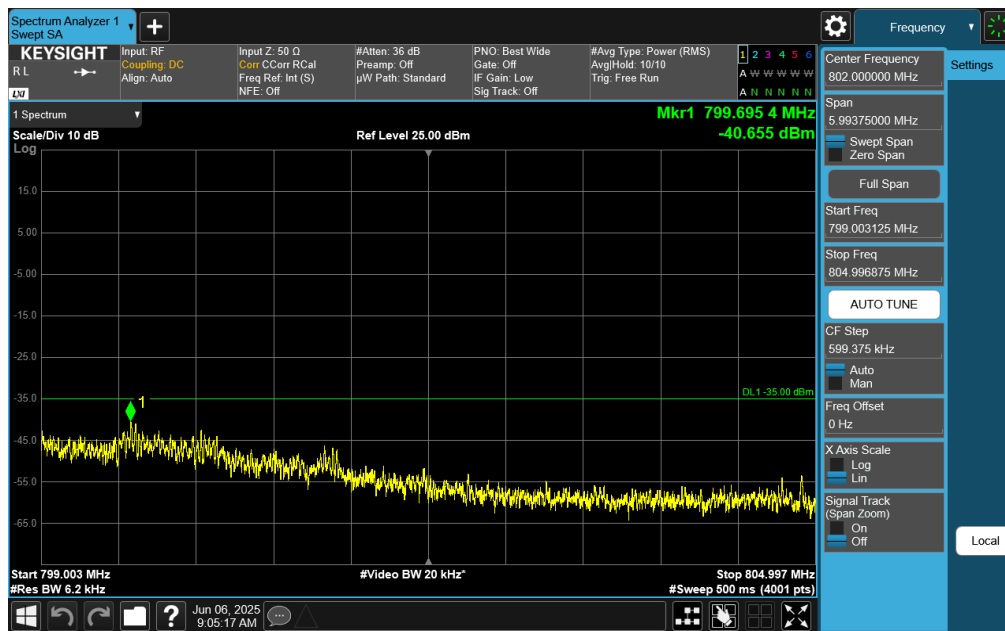
FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device
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Plot 7-115. Upper Band Edge Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK – RB Size 25)

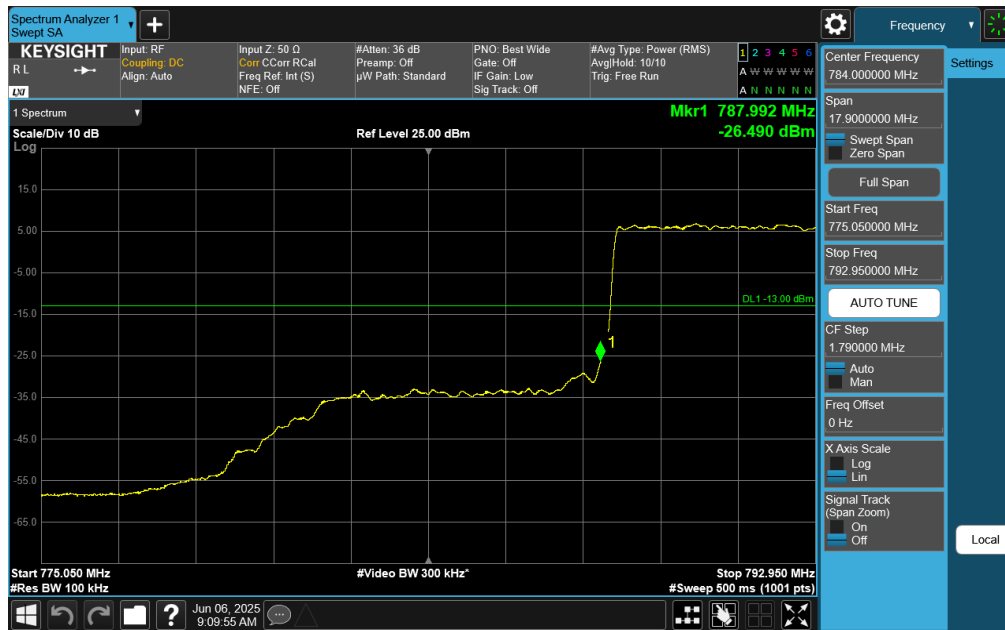


Plot 7-116. Upper Emission Mask Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK – RB Size 25)

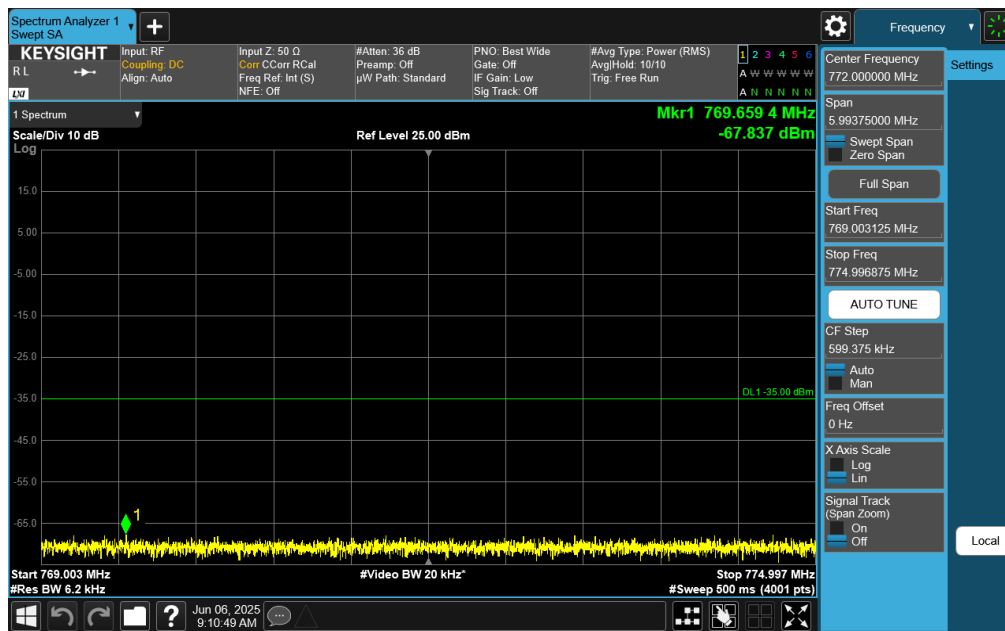
FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device
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Plot 7-117. Lower Band Edge Plot (NR Band n14 - 10MHz QPSK – RB Size 50)

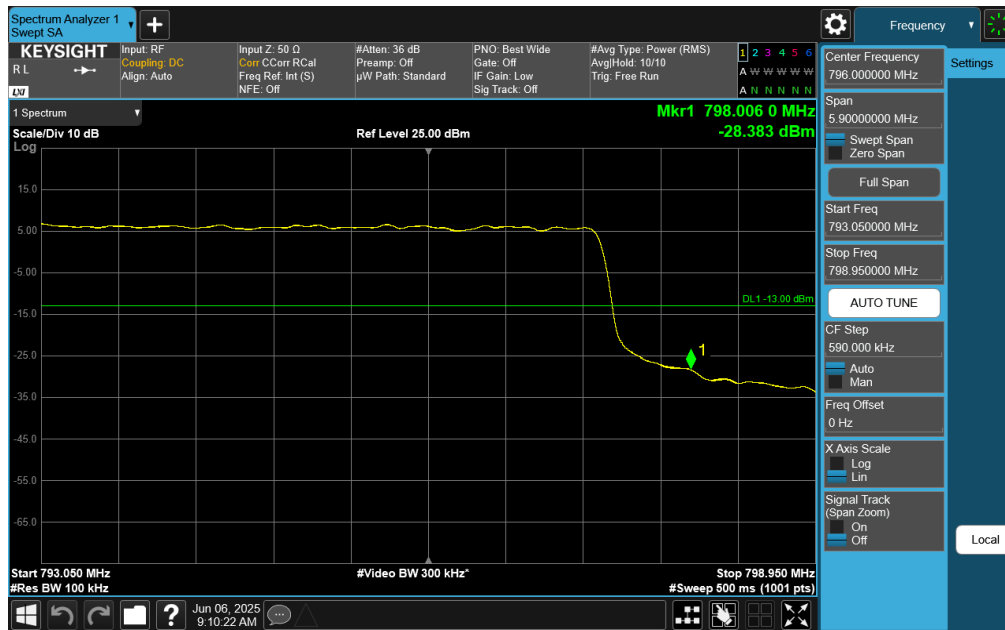


Plot 7-118. Lower Emission Mask Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)

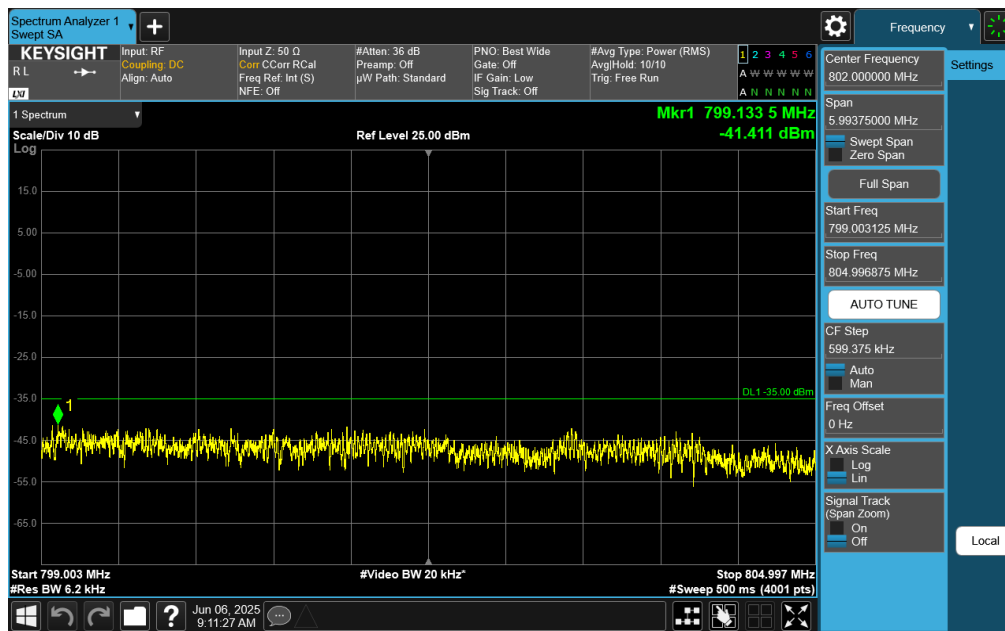
FCC ID: BCGA3358	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device	Page 80 of 109

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Plot 7-119. Upper Band Edge Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)



Plot 7-120. Upper Emission Mask Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)

FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-12-R1.BCG	Test Dates: 5/9/2025 - 7/8/2025	EUT Type: Tablet Device
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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.

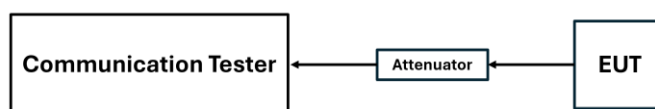


Figure 7-7. LTE Conducted Power Measurement Setup

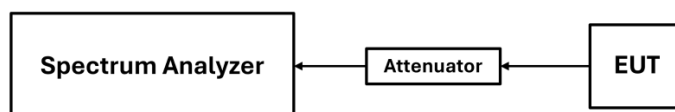


Figure 7-8. FR1 Conducted Power Measurement Setup

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 3 – 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 / 3	25.43	0.349	50.00	-24.57
		819.0	1 / 25	25.20	0.331	50.00	-24.80
		823.3	1 / 3	25.38	0.345	50.00	-24.62
	16-QAM	814.7	1 / 5	24.51	0.282	50.00	-25.49
	64-QAM	814.7	1 / 0	23.44	0.221	50.00	-26.56
	256-QAM	823.3	6 / 0	20.44	0.111	50.00	-29.56
3 MHz	QPSK	815.5	1 / 14	25.41	0.348	50.00	-24.59
		819.0	1 / 0	25.31	0.340	50.00	-24.69
		822.5	1 / 7	25.27	0.337	50.00	-24.73
	16-QAM	822.5	1 / 7	24.50	0.282	50.00	-25.50
	64-QAM	822.5	1 / 7	23.50	0.224	50.00	-26.50
	256-QAM	822.5	15 / 0	20.37	0.109	50.00	-29.63
5 MHz	QPSK	816.5	1 / 0	25.10	0.324	50.00	-24.90
		819.0	1 / 0	25.11	0.324	50.00	-24.89
		821.5	1 / 12	25.31	0.340	50.00	-24.69
	16-QAM	821.5	1 / 0	24.31	0.270	50.00	-25.69
	64-QAM	821.5	1 / 0	23.42	0.220	50.00	-26.58
	256-QAM	821.5	25 / 0	20.45	0.111	50.00	-29.55
10 MHz	QPSK	819.0	1 / 0	25.41	0.348	50.00	-24.59
	16-QAM	819.0	1 / 0	24.28	0.268	50.00	-25.72
	64-QAM	819.0	1 / 49	23.28	0.213	50.00	-26.72
	256-QAM	819.0	50 / 0	20.44	0.111	50.00	-29.56

Table 7-2. 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	25.33	0.341	50.00	-24.67
		819.0	25 / 0	25.36	0.343	50.00	-24.64
		821.5	25 / 0	25.32	0.340	50.00	-24.68
	QPSK	816.5	1 / 23	25.38	0.345	50.00	-24.62
		819.0	1 / 23	25.33	0.342	50.00	-24.67
		821.5	1 / 12	25.42	0.348	50.00	-24.58
	16-QAM	819.0	1 / 12	24.19	0.262	50.00	-25.81
	64-QAM	819.0	25 / 0	23.68	0.234	50.00	-26.32
	256-QAM	819.0	25 / 0	22.03	0.160	50.00	-27.97
10 MHz	$\pi/2$ BPSK	819.0	50 / 0	25.31	0.340	50.00	-24.69
	QPSK	819.0	1 / 50	25.33	0.341	50.00	-24.67
	16-QAM	819.0	1 / 25	24.42	0.277	50.00	-25.58
	64-QAM	819.0	50 / 0	23.64	0.231	50.00	-26.36
	256-QAM	819.0	50 / 0	21.76	0.150	50.00	-28.24

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

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7.5.2 Antenna 1 – 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 / 5	24.38	0.274	50.00	-25.62
		819.0	1 / 49	24.32	0.270	50.00	-25.68
		823.3	1 / 0	24.38	0.274	50.00	-25.62
	16-QAM	823.3	1 / 0	23.46	0.222	50.00	-26.54
	64-QAM	823.3	1 / 3	22.49	0.177	50.00	-27.51
	256-QAM	814.7	6 / 0	19.51	0.089	50.00	-30.49
3 MHz	QPSK	815.5	1 / 14	24.39	0.275	50.00	-25.61
		819.0	1 / 49	24.31	0.270	50.00	-25.69
		822.5	1 / 14	24.48	0.281	50.00	-25.52
	16-QAM	822.5	1 / 7	23.43	0.220	50.00	-26.57
	64-QAM	822.5	1 / 0	22.44	0.175	50.00	-27.56
	256-QAM	822.5	15 / 0	19.48	0.089	50.00	-30.52
5 MHz	QPSK	816.5	1 / 12	24.39	0.275	50.00	-25.61
		819.0	1 / 25	24.33	0.271	50.00	-25.67
		821.5	1 / 12	24.24	0.265	50.00	-25.76
	16-QAM	821.5	1 / 12	23.42	0.220	50.00	-26.58
	64-QAM	821.5	1 / 12	22.40	0.174	50.00	-27.60
	256-QAM	816.5	25 / 0	19.60	0.091	50.00	-30.40
10 MHz	QPSK	819.0	1 / 0	24.29	0.269	50.00	-25.71
	16-QAM	819.0	1 / 25	23.47	0.222	50.00	-26.53
	64-QAM	819.0	1 / 49	22.28	0.169	50.00	-27.72
	256-QAM	819.0	50 / 0	19.59	0.091	50.00	-30.41

Table 7-4. 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	1 / 1	24.44	0.278	50.00	-25.56
		819.0	25 / 0	24.36	0.273	50.00	-25.64
		821.5	1 / 1	24.28	0.268	50.00	-25.72
	QPSK	816.5	1 / 12	24.39	0.275	50.00	-25.61
		819.0	1 / 1	24.36	0.273	50.00	-25.64
		821.5	1 / 1	24.41	0.276	50.00	-25.59
	16-QAM	821.5	1 / 23	23.22	0.210	50.00	-26.78
	64-QAM	819.0	25 / 0	22.42	0.175	50.00	-27.58
10 MHz	256-QAM	819.0	25 / 0	20.37	0.109	50.00	-29.63
	$\pi/2$ BPSK	819.0	1 / 1	24.38	0.274	50.00	-25.62
	QPSK	819.0	1 / 25	24.48	0.280	50.00	-25.52
	16-QAM	819.0	1 / 25	23.10	0.204	50.00	-26.90
	64-QAM	819.0	50 / 0	22.35	0.172	50.00	-27.65
	256-QAM	819.0	50 / 0	20.38	0.109	50.00	-29.62

Table 7-5. 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.

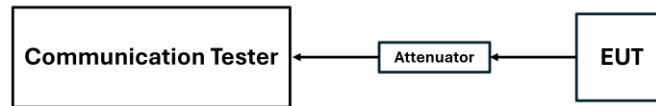


Figure 7-9. LTE ERP Measurement Setup

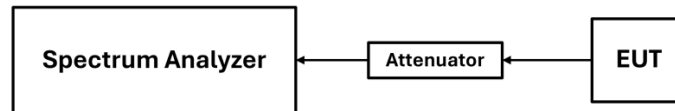


Figure 7-10. FR1 ERP Measurement Setup

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 3 - 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 / 24	25.55	22.20	0.166	34.77	-12.57
		793.0	-1.20	1 / 12	25.54	22.19	0.166	34.77	-12.58
		795.5	-1.20	1 / 12	25.24	21.89	0.155	34.77	-12.88
	16-QAM	790.5	-1.20	1 / 12	24.88	21.53	0.142	34.77	-13.24
	64-QAM	790.5	-1.20	1 / 0	23.60	20.25	0.106	34.77	-14.52
	256-QAM	790.5	-1.20	25 / 0	20.87	17.52	0.056	34.77	-17.25
10 MHz	QPSK	793.0	-1.20	1 / 0	25.33	21.98	0.158	34.77	-12.79
	16-QAM	793.0	-1.20	1 / 0	24.71	21.36	0.137	34.77	-13.41
	64-QAM	793.0	-1.20	1 / 0	23.79	20.44	0.111	34.77	-14.33
	256-QAM	793.0	-1.20	50 / 0	20.86	17.51	0.056	34.77	-17.26

Table 7-6. Antenna 3 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	25.36	22.01	0.159	34.77	-12.76
		793.0	-1.20	1 / 12	25.34	21.99	0.158	34.77	-12.78
		795.5	-1.20	1 / 1	25.36	22.01	0.159	34.77	-12.76
	QPSK	790.5	-1.20	1 / 12	25.49	22.14	0.164	34.77	-12.63
		793.0	-1.20	1 / 1	25.39	22.04	0.160	34.77	-12.73
		795.5	-1.20	1 / 1	25.35	22.00	0.158	34.77	-12.77
	16-QAM	790.5	-1.20	1 / 23	24.23	20.88	0.123	34.77	-13.89
	64-QAM	790.5	-1.20	25 / 0	23.63	20.28	0.107	34.77	-14.49
10 MHz	256-QAM	790.5	-1.20	25 / 0	21.58	18.23	0.067	34.77	-16.54
	$\pi/2$ BPSK	793.0	-1.20	1 / 1	25.28	21.93	0.156	34.77	-12.84
	QPSK	793.0	-1.20	1 / 25	25.41	22.06	0.161	34.77	-12.71
	16-QAM	793.0	-1.20	1 / 50	24.40	21.05	0.127	34.77	-13.72
	64-QAM	793.0	-1.20	50 / 0	23.64	20.29	0.107	34.77	-14.48
	256-QAM	793.0	-1.20	50 / 0	21.63	18.28	0.067	34.77	-16.49

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

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7.6.2 Antenna 1 - 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	-1.90	1 / 0	24.42	20.37	0.109	34.77	-14.40
		793.0	-1.90	1 / 12	24.53	20.48	0.112	34.77	-14.29
		795.5	-1.90	1 / 24	24.16	20.11	0.103	34.77	-14.66
	16-QAM	790.5	-1.90	1 / 0	23.90	19.85	0.097	34.77	-14.92
		793.0	-1.90	1 / 12	22.65	18.60	0.072	34.77	-16.17
		795.5	-1.90	25 / 0	19.85	15.80	0.038	34.77	-18.97
10 MHz	QPSK	790.5	-1.90	1 / 49	24.28	20.23	0.105	34.77	-14.54
		793.0	-1.90	1 / 49	23.74	19.69	0.093	34.77	-15.08
		795.5	-1.90	1 / 49	22.57	18.52	0.071	34.77	-16.25
	16-QAM	790.5	-1.90	50 / 0	19.81	15.76	0.038	34.77	-19.01
		793.0	-1.90	50 / 0	19.81	15.76	0.038	34.77	-19.01
		795.5	-1.90	50 / 0	19.81	15.76	0.038	34.77	-19.01

Table 7-8. Antenna 1 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	-1.90	1 / 1	24.41	20.36	0.109	34.77	-14.41
		793.0	-1.90	1 / 23	24.43	20.38	0.109	34.77	-14.39
		795.5	-1.90	1 / 23	24.40	20.35	0.108	34.77	-14.42
	QPSK	790.5	-1.90	1 / 1	24.36	20.31	0.107	34.77	-14.46
		793.0	-1.90	1 / 12	24.34	20.29	0.107	34.77	-14.48
		795.5	-1.90	1 / 23	24.32	20.27	0.106	34.77	-14.50
10 MHz	16-QAM	790.5	-1.90	1 / 23	23.17	19.12	0.082	34.77	-15.65
		793.0	-1.90	25 / 0	22.31	18.26	0.067	34.77	-16.51
		795.5	-1.90	25 / 0	20.32	16.27	0.042	34.77	-18.50
	$\pi/2$ BPSK	790.5	-1.90	1 / 50	24.34	20.29	0.107	34.77	-14.48
		793.0	-1.90	1 / 1	24.36	20.31	0.107	34.77	-14.46
		795.5	-1.90	1 / 50	23.15	19.10	0.081	34.77	-15.67
10 MHz	16-QAM	790.5	-1.90	50 / 0	22.21	18.16	0.065	34.77	-16.61
		793.0	-1.90	50 / 0	20.28	16.23	0.042	34.77	-18.54

Table 7-9. Antenna 1 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.

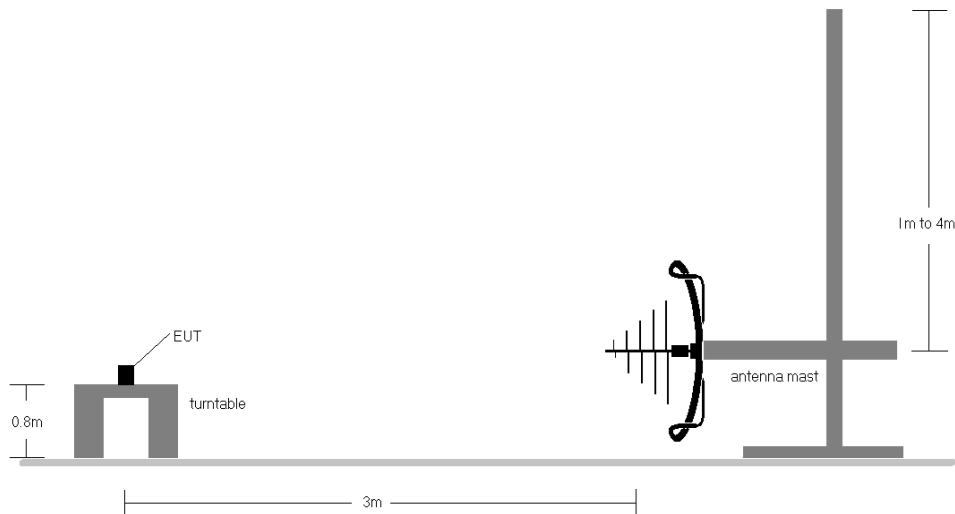


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

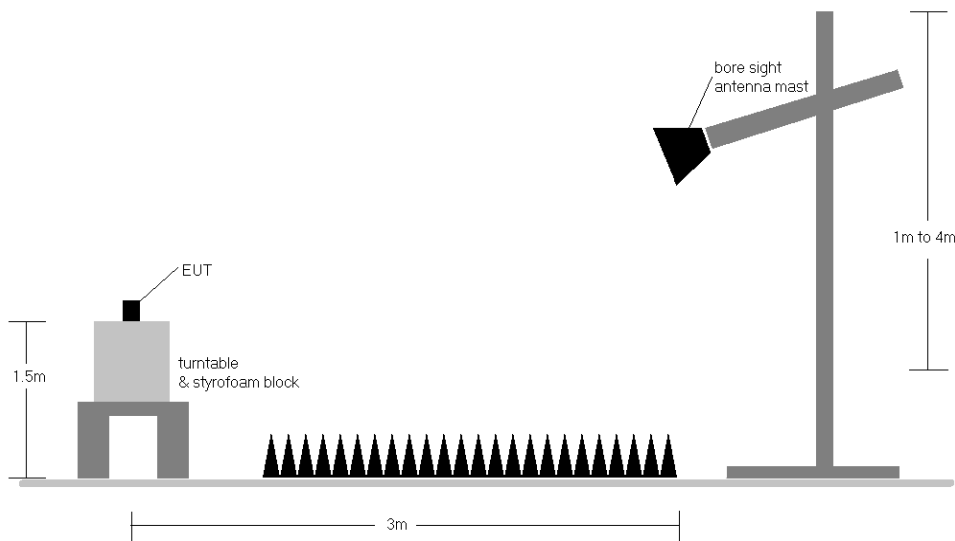


Figure 7-12. Test Instrument & Measurement Setup >1 GHz

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Test Notes

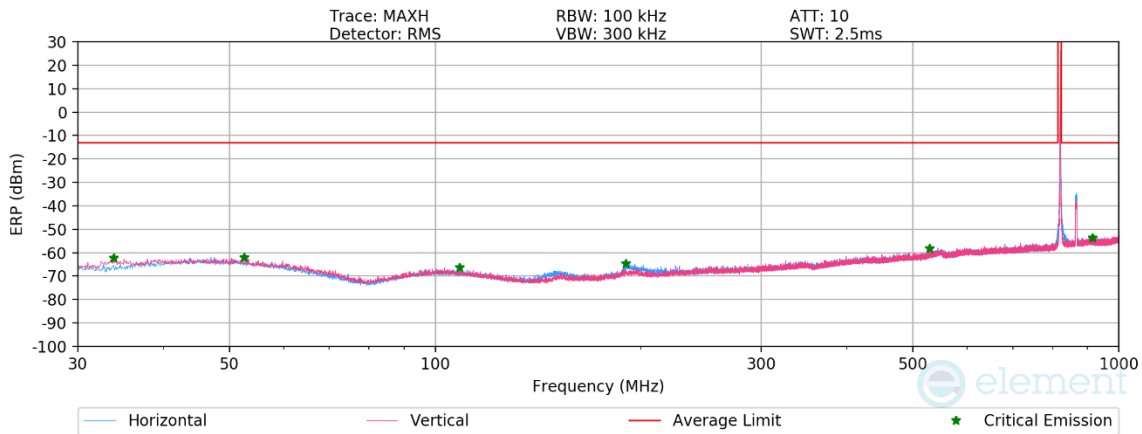
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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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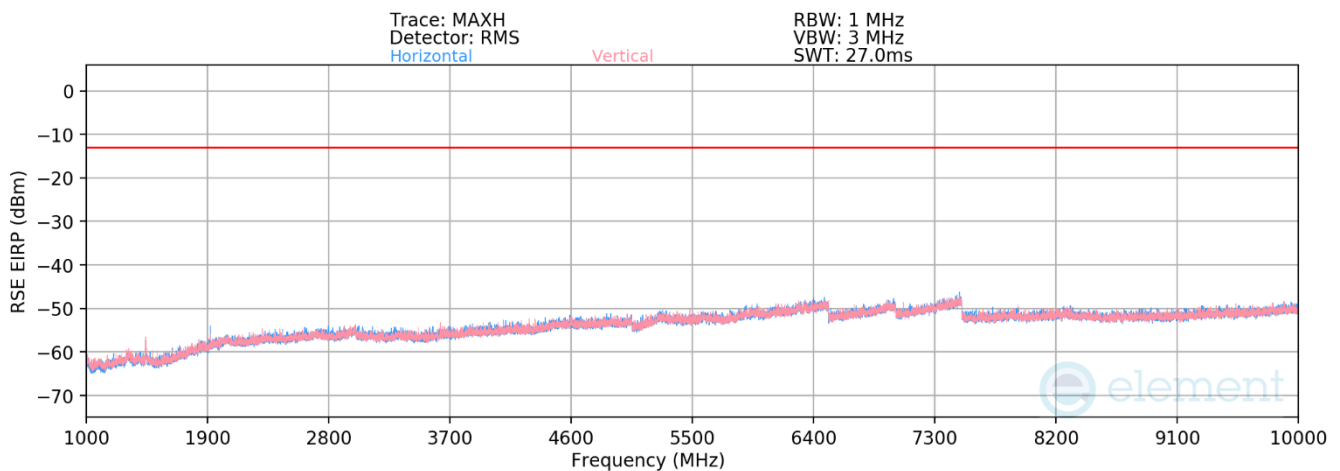
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7.7.1 Antenna 3 – Radiated Spurious Emission Measurements

LTE Band 26



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



Plot 7-122. Antenna 3 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	-	-	-76.95	-2.09	27.96	-67.30	-13.00	-54.30
2449.5	V	-	-	-77.92	2.62	31.70	-63.56	-13.00	-50.56
3266.0	V	-	-	-77.95	4.04	33.09	-62.17	-13.00	-49.17

Table 7-10. Antenna 3 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	V	-	-	-77.12	-2.09	27.79	-67.46	-13.00	-54.46
2457.0	H	-	-	-78.09	2.62	31.53	-63.72	-13.00	-50.72
3276.0	H	-	-	-78.27	4.25	32.98	-62.27	-13.00	-49.27

Table 7-11. Antenna 3 Radiated Spurious Data (LTE Band 26 – Mid Channel)

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

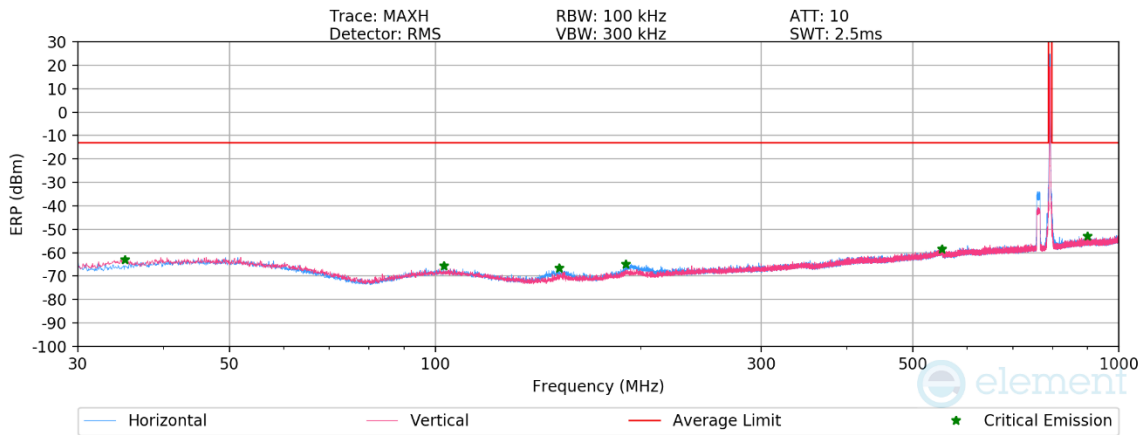
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-76.88	-2.09	28.03	-67.23	-13.00	-54.23
2464.5	V	-	-	-77.94	2.40	31.46	-63.80	-13.00	-50.80
3286.0	V	-	-	-78.17	4.47	33.30	-61.95	-13.00	-48.95

Table 7-12. Antenna 3 Radiated Spurious Data (LTE Band 26 – High Channel)

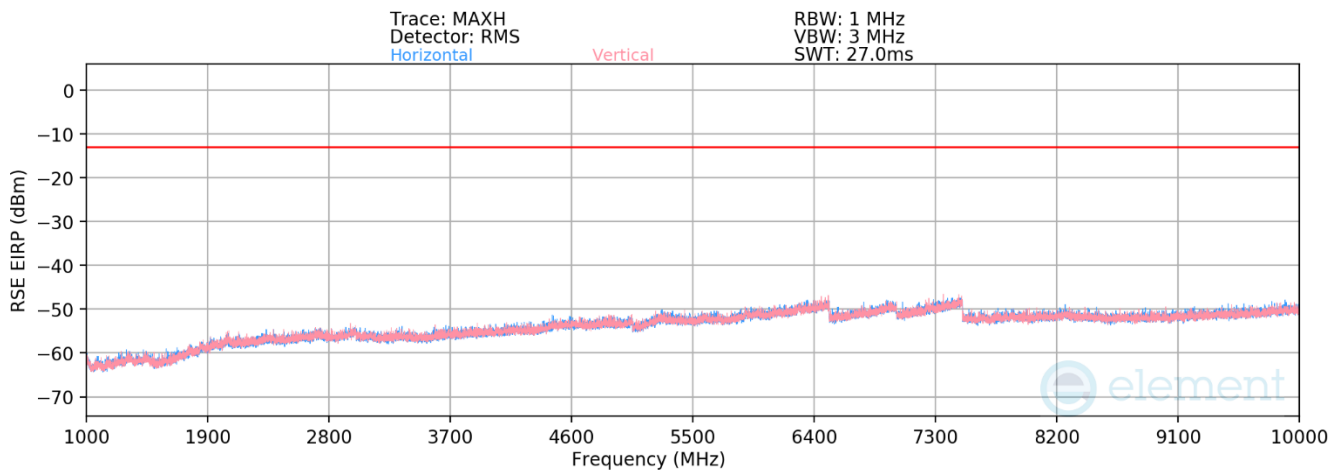
FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 14



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



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

FCC ID: BCGA3358		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	-	-	-78.23	-2.21	26.56	-68.70	-40.00	-28.70
2371.5	V	-	-	-78.43	2.91	31.48	-63.78	-13.00	-50.78
3162.0	V	-	-	-78.47	4.01	32.54	-62.72	-13.00	-49.72

Table 7-13. Antenna 3 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	-	-	-77.27	-2.27	27.46	-67.80	-40.00	-27.80
2379.0	H	-	-	-78.33	2.90	31.57	-63.69	-13.00	-50.69
3172.0	H	-	-	-78.83	4.46	32.63	-62.63	-13.00	-49.63

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

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

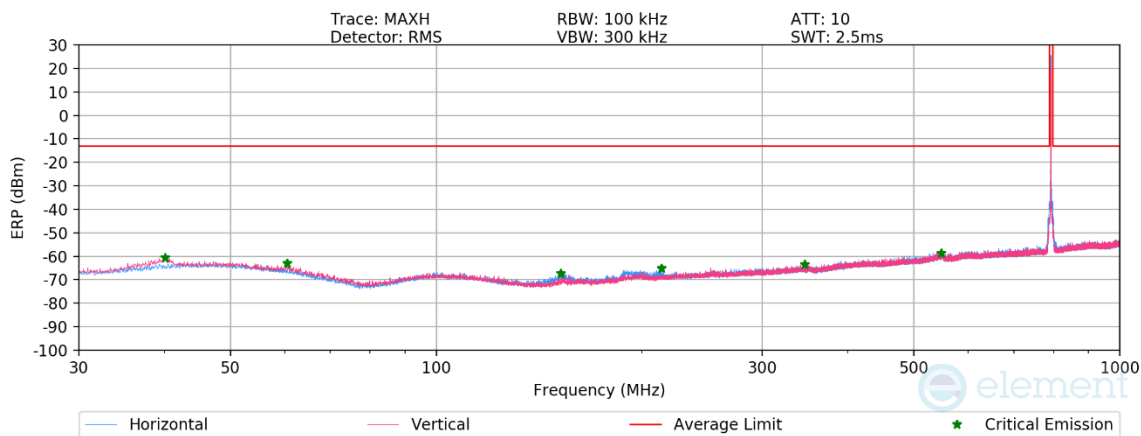
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-77.67	-2.07	27.26	-68.00	-40.00	-28.00
2386.5	H	-	-	-78.52	2.90	31.38	-63.88	-13.00	-50.88
3182.0	V	-	-	-78.33	4.01	32.68	-62.57	-13.00	-49.57

Table 7-15. Antenna 3 Radiated Spurious Data (LTE Band 14 – High Channel)

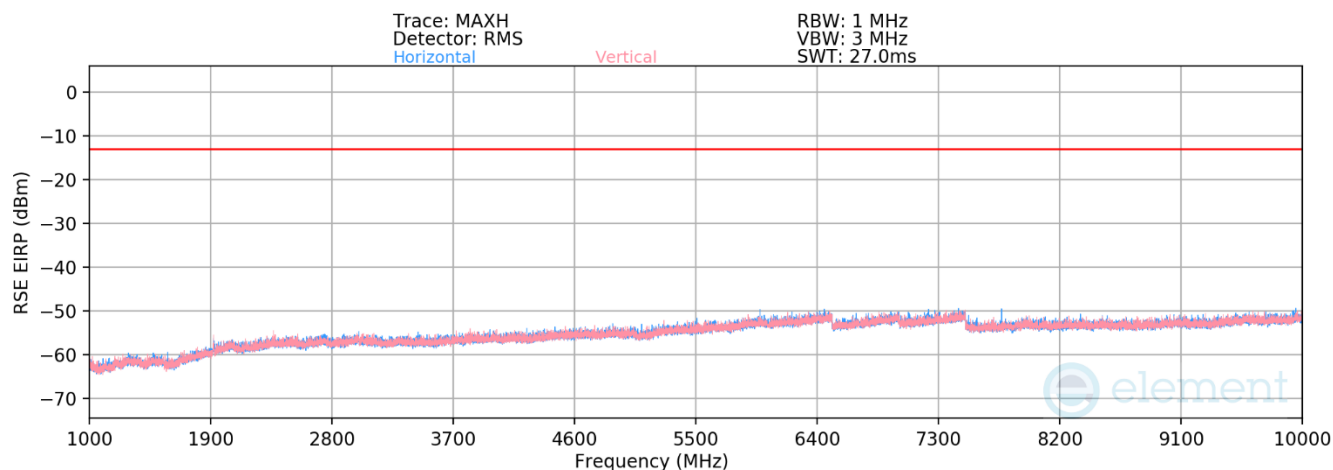
FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n14



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



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

FCC ID: BCGA3358		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	H	289	153	-73.62	-4.95	28.43	-66.82	-40.00	-26.82
2371.5	V	-	-	-75.72	0.18	31.46	-63.80	-13.00	-50.80
3162.0	H	-	-	-76.54	1.50	31.95	-63.30	-13.00	-50.30
3952.5	H	-	-	-76.75	2.21	32.46	-62.80	-13.00	-49.80

Table 7-16. Antenna 3 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	-	-	-75.17	-4.98	26.85	-68.40	-40.00	-28.40
2379.0	V	-	-	-75.97	0.42	31.46	-63.80	-13.00	-50.80
3172.0	H	-	-	-76.44	1.23	31.79	-63.46	-13.00	-50.46

Table 7-17. Antenna 3 Radiated Spurious Data (NR Band n14 – Mid Channel)

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

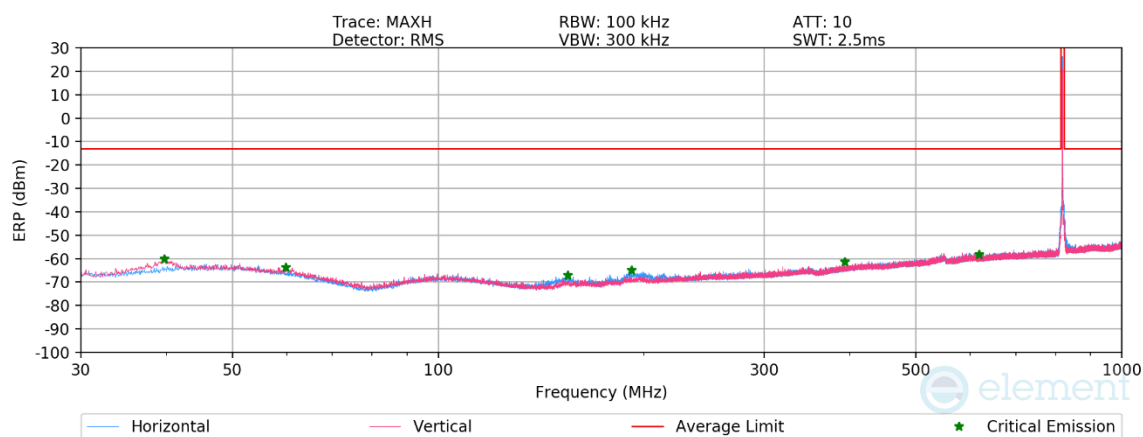
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-75.18	-4.98	26.84	-68.42	-40.00	-28.42
2386.5	V	-	-	-76.01	0.45	31.43	-63.83	-13.00	-50.83
3182.0	H	-	-	-76.62	1.19	31.57	-63.69	-13.00	-50.69

Table 7-18. Antenna 3 Radiated Spurious Data (NR Band n14 – High Channel)

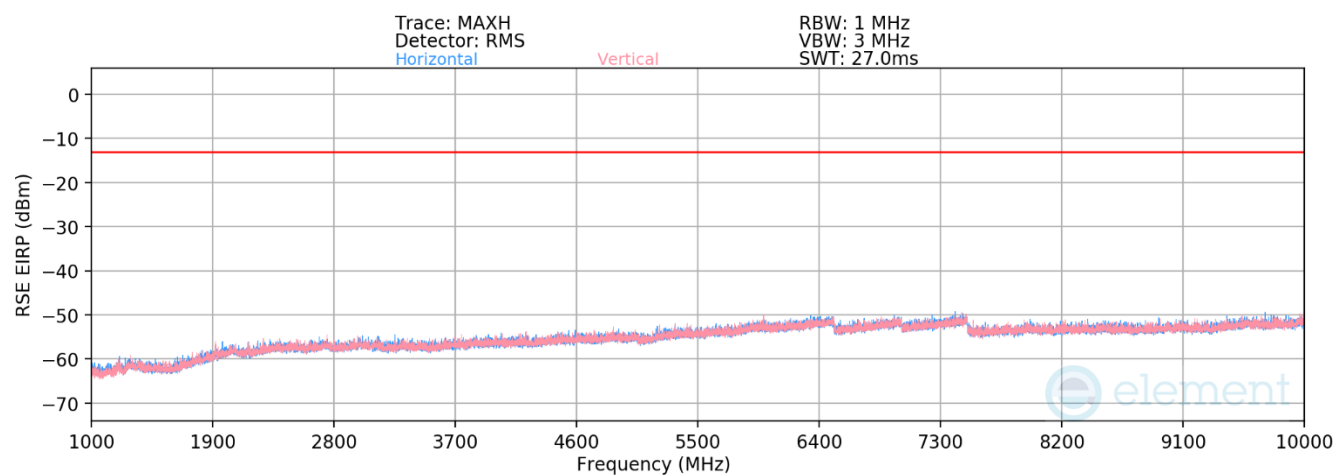
FCC ID: BCGA3358	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26



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



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

FCC ID: BCGA3358		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	H	-	-	-75.07	-5.00	26.93	-68.33	-13.00	-55.33
2449.5	V	-	-	-76.10	0.37	31.27	-63.99	-13.00	-50.99
3266.0	V	-	-	-76.38	1.22	31.84	-63.41	-13.00	-50.41

Table 7-19. Antenna 3 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	-	-	-74.77	-5.00	27.24	-68.02	-13.00	-55.02
2457.0	V	-	-	-75.96	0.37	31.42	-63.84	-13.00	-50.84
3276.0	H	-	-	-76.10	1.22	32.12	-63.14	-13.00	-50.14

Table 7-20. Antenna 3 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	-	-	-75.37	-4.60	27.03	-68.23	-13.00	-55.23
2464.5	V	-	-	-75.92	0.22	31.30	-63.95	-13.00	-50.95
3286.0	V	-	-	-76.49	1.53	32.04	-63.21	-13.00	-50.21

Table 7-21. Antenna 3 Radiated Spurious Data (NR Band n26 – High Channel)

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.2 Antenna 1 – 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	297	132	-73.72	-2.09	31.20	-64.06	-13.00	-51.06
2449.5	H	-	-	-78.07	2.60	31.53	-63.73	-13.00	-50.73
3266.0	H	-	-	-78.42	4.25	32.83	-62.42	-13.00	-49.42
4082.5	H	-	-	-78.85	5.31	33.46	-61.80	-13.00	-48.80

Table 7-22. Antenna 1 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	294	132	-73.67	-2.09	31.24	-64.02	-13.00	-51.02
2457.0	V	-	-	-77.98	2.40	31.43	-63.83	-13.00	-50.83
3276.0	H	-	-	-78.30	4.25	32.95	-62.30	-13.00	-49.30
4095.0	H	-	-	-78.76	5.31	33.55	-61.71	-13.00	-48.71

Table 7-23. Antenna 1 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	254	177	-74.06	-2.09	30.85	-64.40	-13.00	-51.40
2464.5	V	-	-	-78.20	2.40	31.21	-64.05	-13.00	-51.05
3286.0	H	-	-	-78.29	4.47	33.18	-62.07	-13.00	-49.07
4107.5	V	-	-	-79.14	5.49	33.35	-61.91	-13.00	-48.91

Table 7-24. Antenna 1 Radiated Spurious Data (LTE Band 26 – High Channel)

FCC ID: BCGA3358		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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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	V	-	-	-78.33	-2.21	26.46	-68.80	-40.00	-28.80
2371.5	V	-	-	-77.84	2.75	31.91	-63.35	-13.00	-50.35
3162.0	H	-	-	-78.56	4.01	32.45	-62.80	-13.00	-49.80

Table 7-25. Antenna 1 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	V	-	-	-77.57	-2.27	27.16	-68.10	-40.00	-28.10
2379.0	H	-	-	-78.26	2.91	31.65	-63.61	-13.00	-50.61
3172.0	V	-	-	-78.40	4.01	32.61	-62.65	-13.00	-49.65

Table 7-26. Antenna 1 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	V	-	-	-77.35	-1.97	27.68	-67.58	-40.00	-27.58
2386.5	V	-	-	-78.74	2.91	31.17	-64.09	-13.00	-51.09
3182.0	H	-	-	-78.13	4.01	32.88	-62.37	-13.00	-49.37

Table 7-27. Antenna 1 Radiated Spurious Data (LTE Band 14 – High Channel)

FCC ID: BCGA3358		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	-	-	-75.22	-4.92	26.86	-68.40	-40.00	-28.40
2371.5	H	-	-	-75.98	0.39	31.40	-63.85	-13.00	-50.85
3162.0	V	-	-	-76.31	1.23	31.92	-63.34	-13.00	-50.34

Table 7-28. Antenna 1 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	237	238	-74.60	-4.95	27.45	-67.81	-40.00	-27.81
2379.0	V	-	-	-75.99	0.46	31.47	-63.79	-13.00	-50.79
3172.0	H	-	-	-76.79	1.50	31.71	-63.55	-13.00	-50.55
3965.0	H	-	-	-77.00	2.37	32.37	-62.89	-13.00	-49.89

Table 7-29. Antenna 1 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	243	235	-74.56	-4.95	27.49	-67.76	-40.00	-27.76
2386.5	V	-	-	-76.14	0.42	31.29	-63.97	-13.00	-50.97
3182.0	V	-	-	-76.67	1.19	31.52	-63.74	-13.00	-50.74
3977.5	V	-	-	-76.93	2.32	32.39	-62.87	-13.00	-49.87

Table 7-30. Antenna 1 Radiated Spurious Data (NR Band n14 – High Channel)

FCC ID: BCGA3358		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	-	-	-75.36	-4.92	26.72	-68.54	-13.00	-55.54
2449.5	H	-	-	-75.98	0.39	31.40	-63.85	-13.00	-50.85
3266.0	V	-	-	-76.31	1.23	31.92	-63.34	-13.00	-50.34

Table 7-31. Antenna 1 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	237	238	-74.60	-4.95	27.45	-67.81	-13.00	-54.81
2457.0	V	-	-	-75.99	0.46	31.47	-63.79	-13.00	-50.79
3276.0	H	-	-	-76.79	1.50	31.71	-63.55	-13.00	-50.55
4095.0	H	-	-	-77.00	2.37	32.37	-62.89	-13.00	-49.89

Table 7-32. Antenna 1 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	243	235	-74.56	-4.95	27.49	-67.76	-13.00	-54.76
2464.5	V	-	-	-76.14	0.42	31.29	-63.97	-13.00	-50.97
3286.0	V	-	-	-76.67	1.19	31.52	-63.74	-13.00	-50.74
4107.5	V	-	-	-76.93	2.32	32.39	-62.87	-13.00	-49.87

Table 7-33. Antenna 1 Radiated Spurious Data (NR Band n26 – High Channel)

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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:

- Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- 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

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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

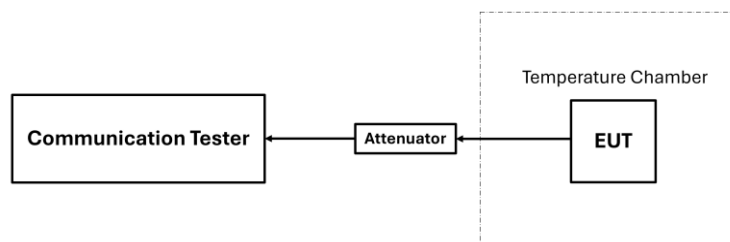


Figure 7-13. LTE Test Instrument & Measurement Setup

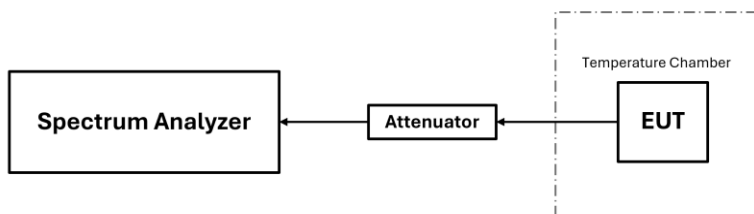


Figure 7-14. FR1 Test Instrument & Measurement Setup

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	0.818999756	-0.000000256	-0.000031258
		- 20	0.818999944	-0.000000068	-0.000008303
		- 10	0.818999957	-0.000000055	-0.000006716
		0	0.819000044	0.000000032	0.000003907
		+ 10	0.818999979	-0.000000033	-0.000004029
		+ 20 (Ref)	0.819000012	0.000000000	0.000000000
		+ 30	0.819000054	0.000000042	0.000005128
		+ 40	0.818999978	-0.000000034	-0.000004151
		+ 50	0.818999961	-0.000000051	-0.000006227
Battery Endpoint	3.40	+ 20	0.818999963	-0.000000049	-0.000005983

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	0.788351702	-0.000351702
		- 20	0.788389416	-0.000389416
		- 10	0.788312849	-0.000312849
		0	0.788374205	-0.000374205
		+ 10	0.788398630	-0.000398630
		+ 20 (Ref)	0.788328491	-0.000328491
		+ 30	0.788342076	-0.000342076
		+ 40	0.788360784	-0.000360784
		+ 50	0.788386120	-0.000386120
Battery Endpoint	3.40	+ 20	0.788334957	-0.000334957

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	0.797624385	-0.000375615
		- 20	0.797689217	-0.000310783
		- 10	0.797631402	-0.000368598
		0	0.797670958	-0.000329042
		+ 10	0.797612843	-0.000387157
		+ 20 (Ref)	0.797696105	-0.000303895
		+ 30	0.797658327	-0.000341673
		+ 40	0.797640581	-0.000359419
		+ 50	0.797673902	-0.000326098
Battery Endpoint	3.40	+ 20	0.797618734	-0.000381266

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

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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	0.818999884	-0.000000158	-0.000019292
		- 20	0.818999830	-0.000000212	-0.000025885
		- 10	0.818999910	-0.000000132	-0.000016117
		0	0.818999957	-0.000000085	-0.000010379
		+ 10	0.818999921	-0.000000121	-0.000014774
		+ 20 (Ref)	0.819000042	0.000000000	0.000000000
		+ 30	0.818999989	-0.000000053	-0.000006471
		+ 40	0.818999998	-0.000000044	-0.000005372
		+ 50	0.818999978	-0.000000064	-0.000007814
Battery Endpoint	3.40	+ 20	0.818999984	-0.000000058	-0.000007082

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	0.788372185	-0.000372185
		- 20	0.788314296	-0.000314296
		- 10	0.788396720	-0.000396720
		0	0.788356089	-0.000356089
		+ 10	0.788382504	-0.000382504
		+ 20 (Ref)	0.788331762	-0.000331762
		+ 30	0.788389170	-0.000389170
		+ 40	0.788343025	-0.000343025
		+ 50	0.788318647	-0.000318647
Battery Endpoint	3.40	+ 20	0.788364911	-0.000364911

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	0.797672194	-0.000327806
		- 20	0.797613825	-0.000386175
		- 10	0.797659472	-0.000340528
		0	0.797681309	-0.000318691
		+ 10	0.797624701	-0.000375299
		+ 20 (Ref)	0.797697580	-0.000302420
		+ 30	0.797638194	-0.000361806
		+ 40	0.797609382	-0.000390618
		+ 50	0.797688237	-0.000311763
Battery Endpoint	3.40	+ 20	0.797645019	-0.000354981

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

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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: BCGA3358** complies with all the requirements of Part 90 of the FCC rules.

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