

7.4 Band Edge Emissions at Antenna Terminal

§2.1051, 22.917(a)

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 was reported.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

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

Test Setup

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

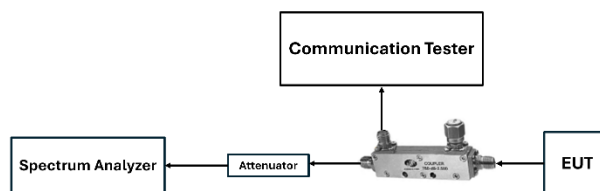


Figure 7-5. LTE Test Instrument & Measurement Setup

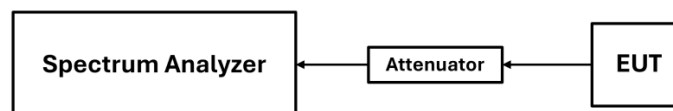


Figure 7-6. FR1 Test Instrument & Measurement Setup

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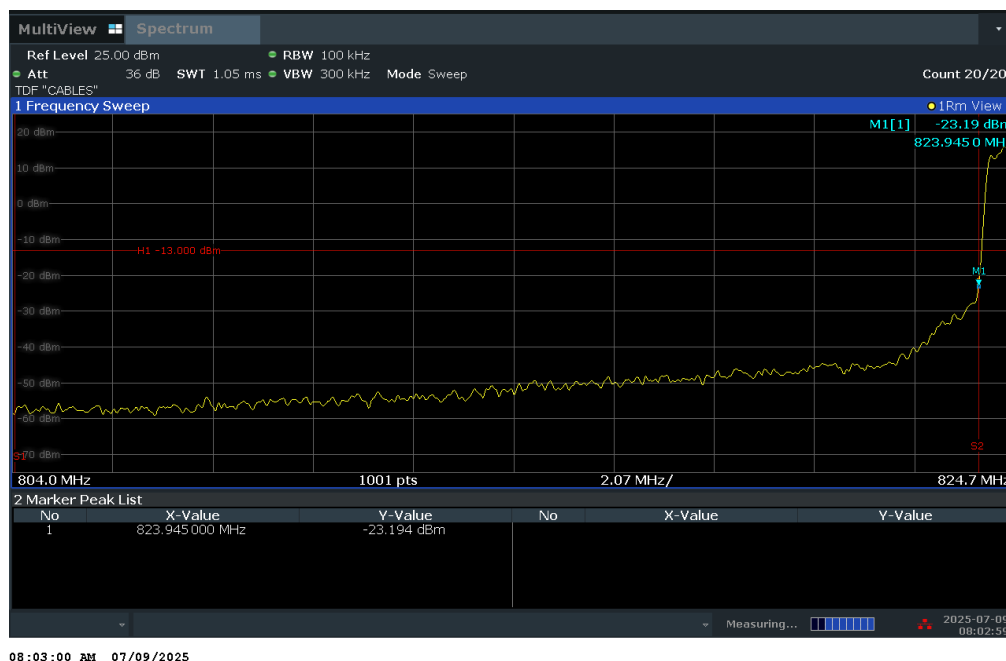
Test Notes

1. Per 22.917(b), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter 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 frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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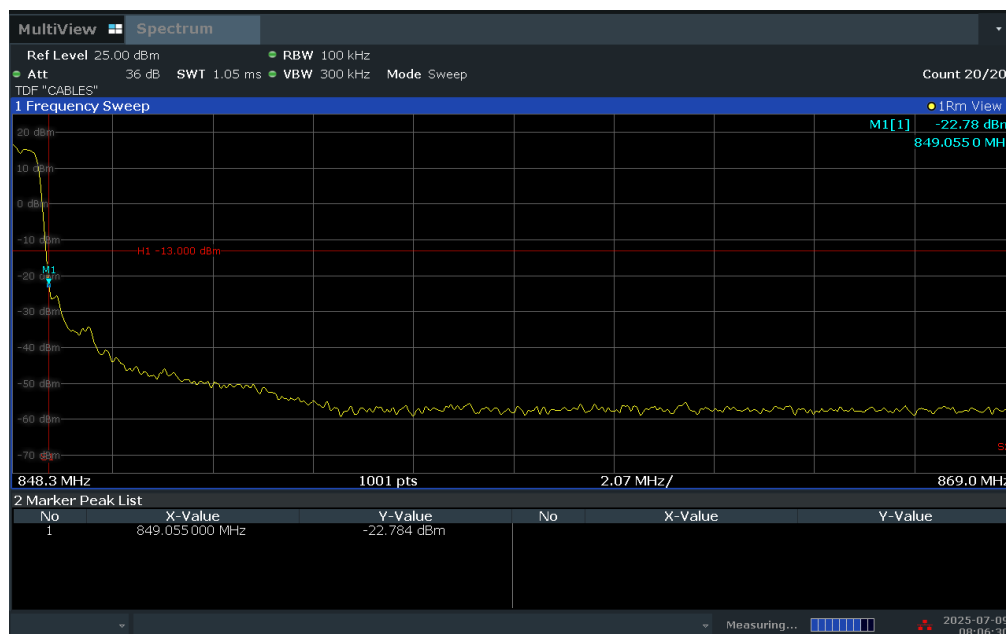
V2.2 08/24/2023

LTE Band 26



08:03:00 AM 07/09/2025

Plot 7-78. Lower BE Plot (LTE Band 26 – 1.4MHz QPSK – Full RB Configuration)



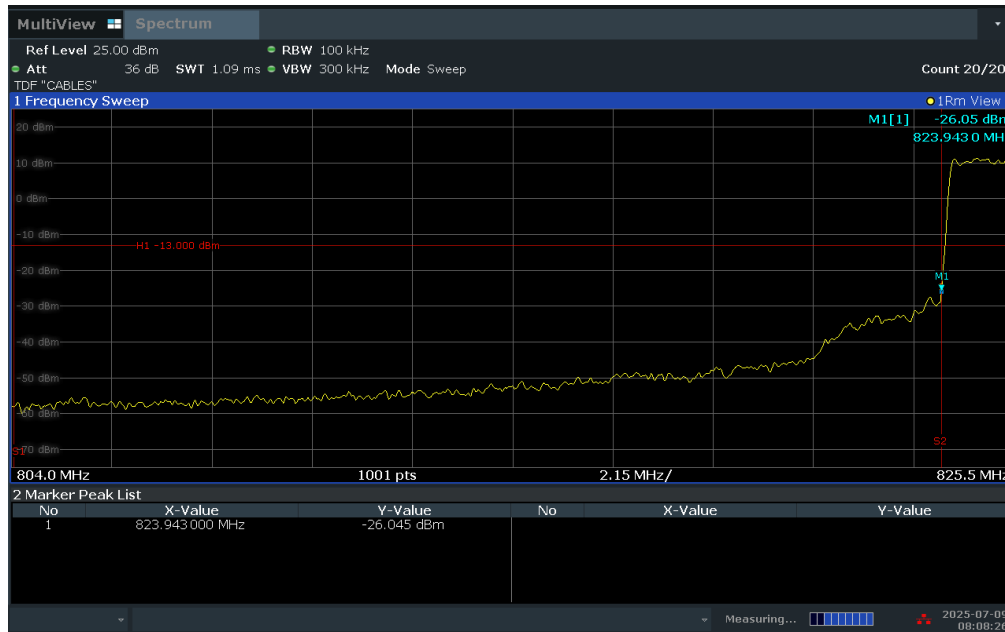
08:06:31 AM 07/09/2025

Plot 7-79. Upper BE Plot (LTE Band 26 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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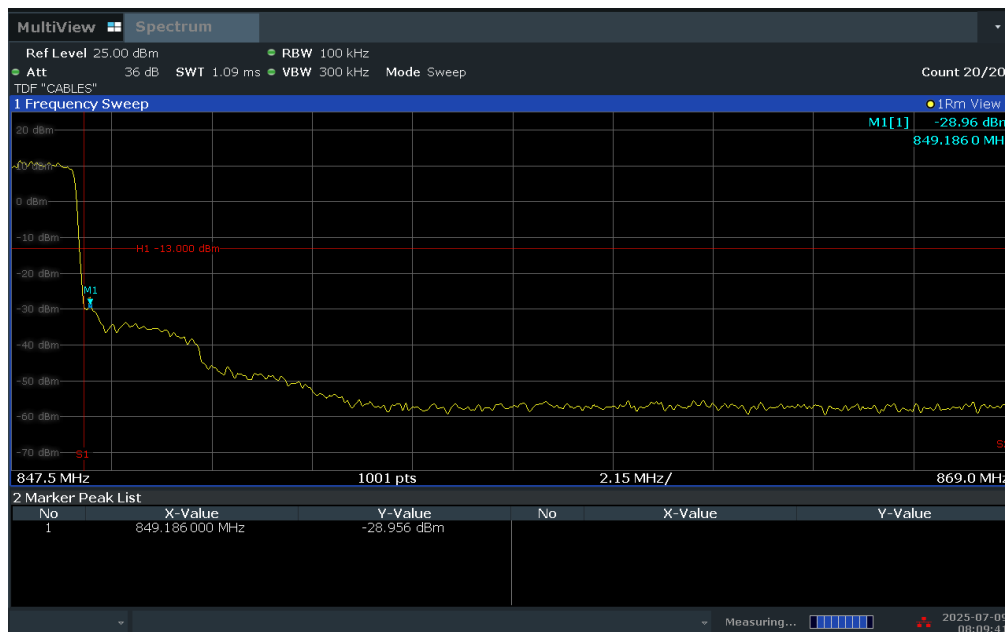
V2.2 08/24/2023

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08:08:26 AM 07/09/2025

Plot 7-80. Lower BE Plot (LTE Band 26 - 3MHz QPSK – Full RB Configuration)



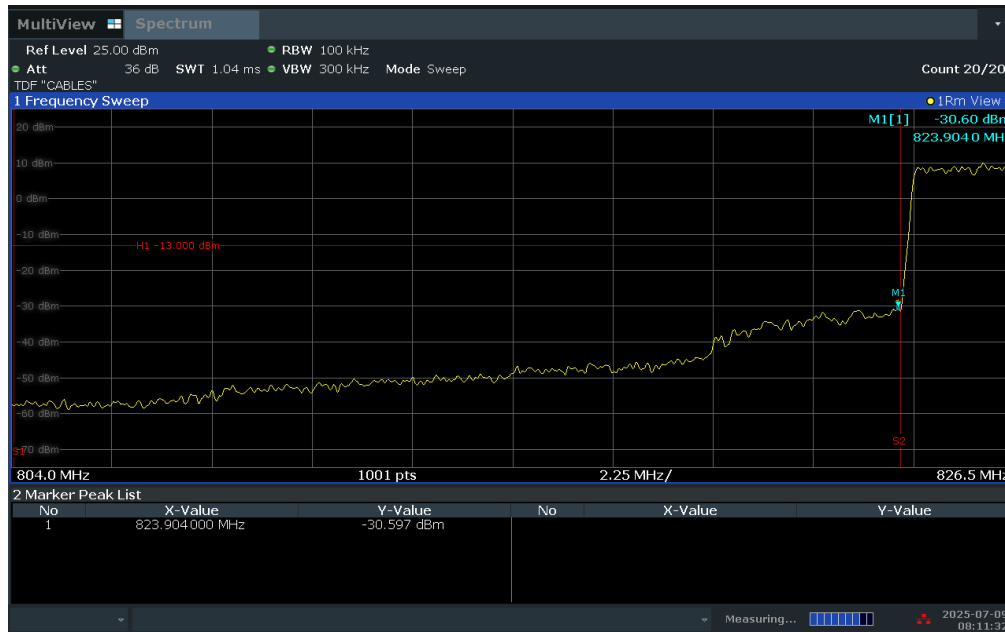
08:09:42 AM 07/09/2025

Plot 7-81. Upper BE Plot (LTE Band 26 - 3MHz QPSK – Full RB Configuration)

FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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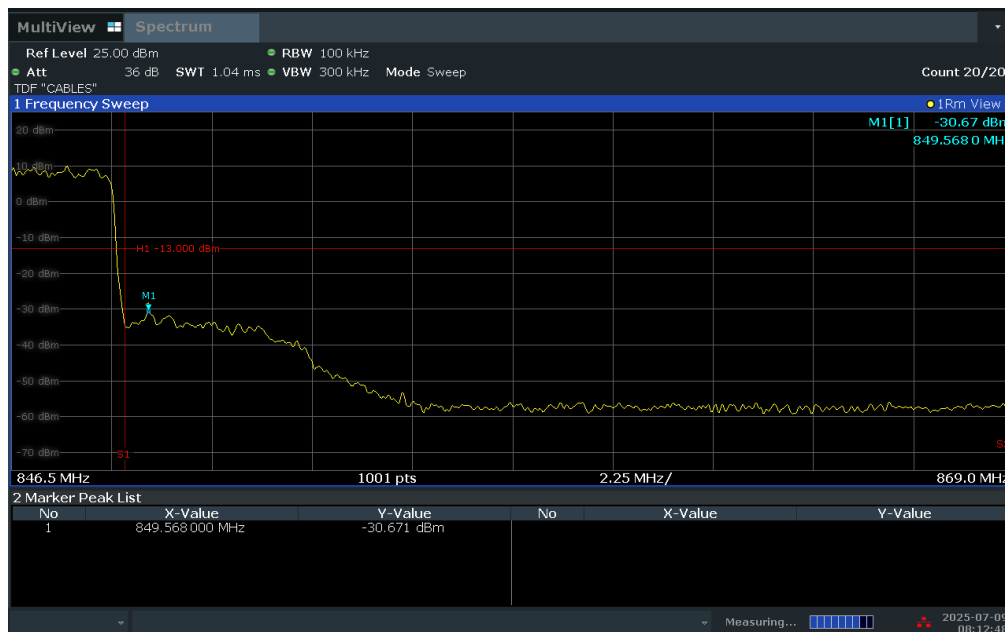
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08:11:33 AM 07/09/2025

Plot 7-82. Lower BE Plot (LTE Band 26 - 5MHz QPSK – Full RB Configuration)



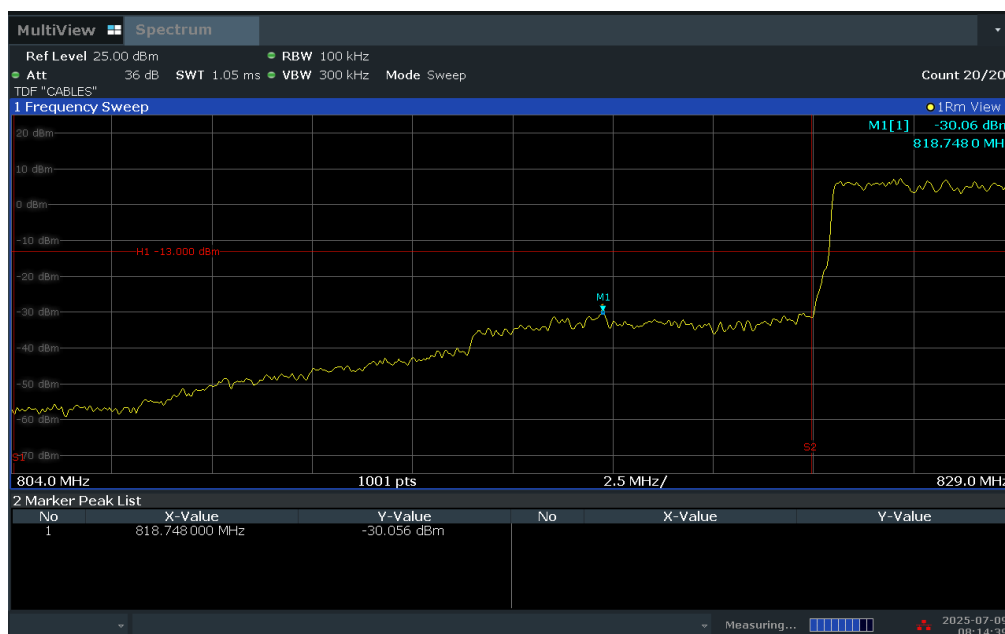
08:12:49 AM 07/09/2025

Plot 7-83. Upper BE Plot (LTE Band 26 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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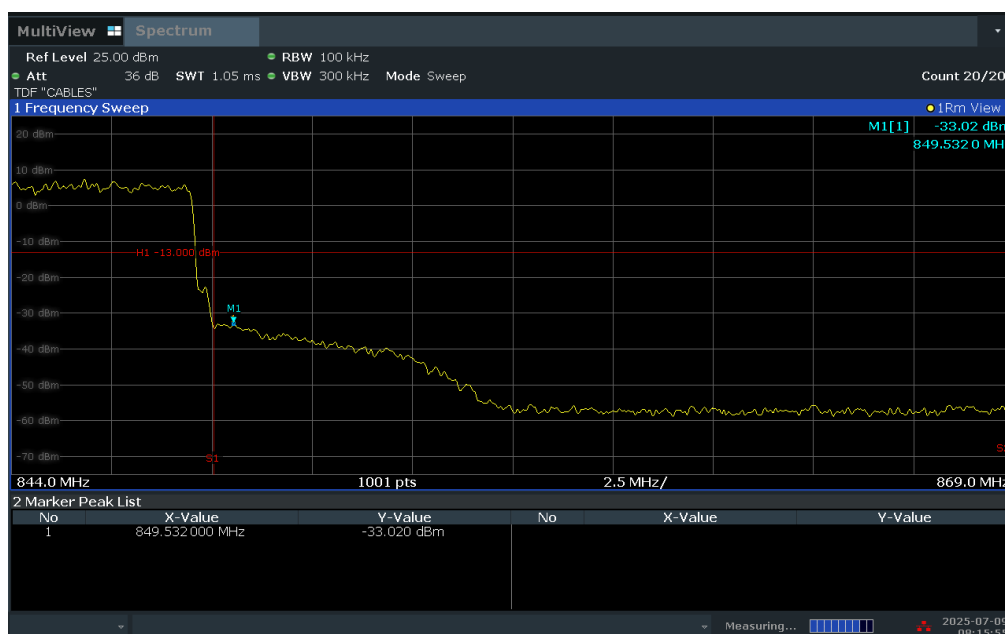
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08:14:40 AM 07/09/2025

Plot 7-84. Lower BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)



08:15:56 AM 07/09/2025

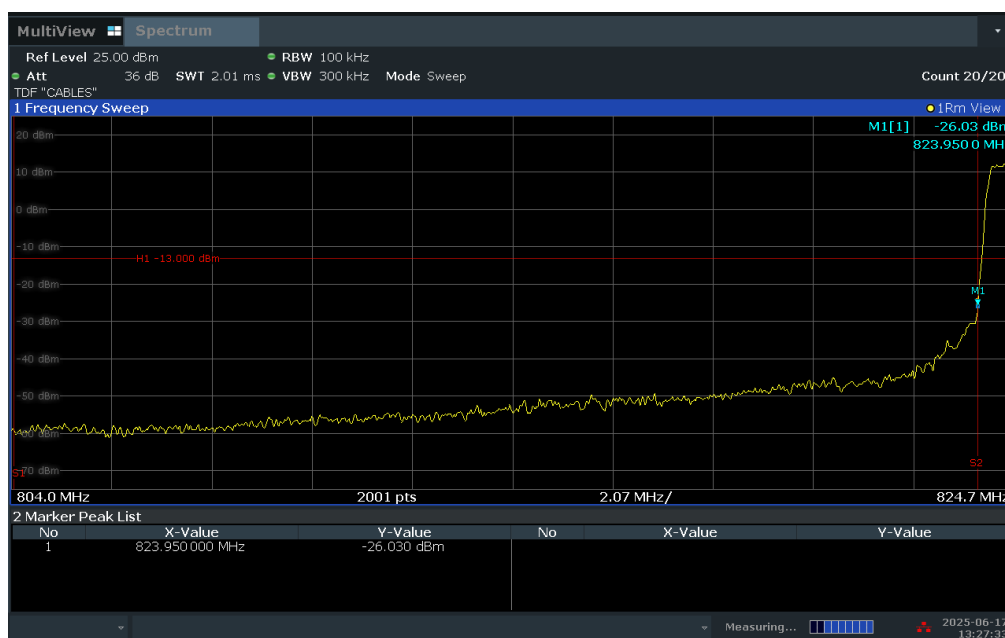
Plot 7-85. Upper BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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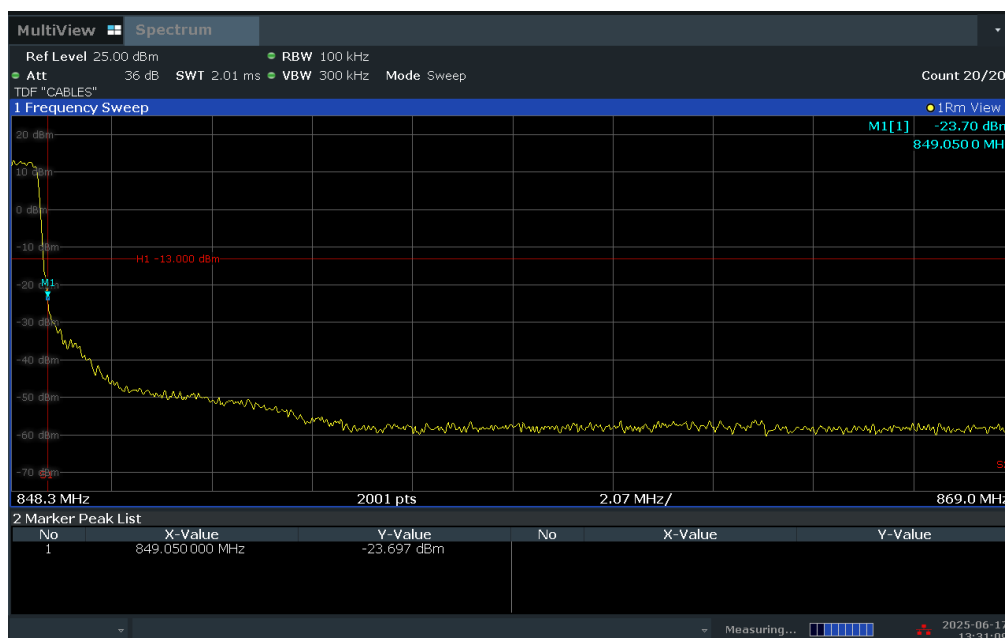
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LTE Band 5



01:27:34 PM 06/17/2025

Plot 7-86. Lower BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)



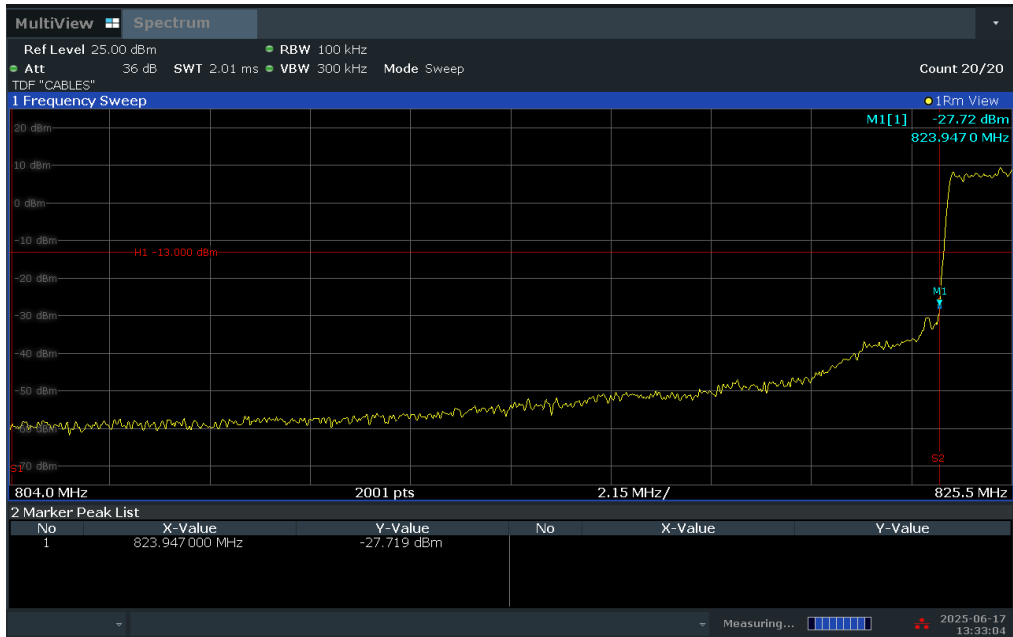
01:31:09 PM 06/17/2025

Plot 7-87. Upper BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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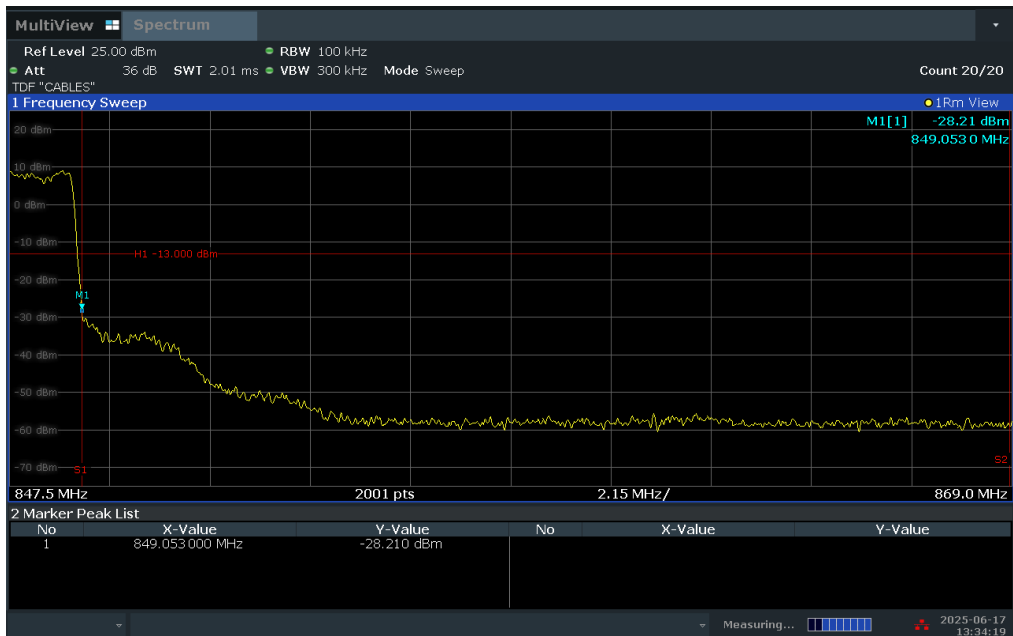
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01:33:04 PM 06/17/2025

Plot 7-88. Lower BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)



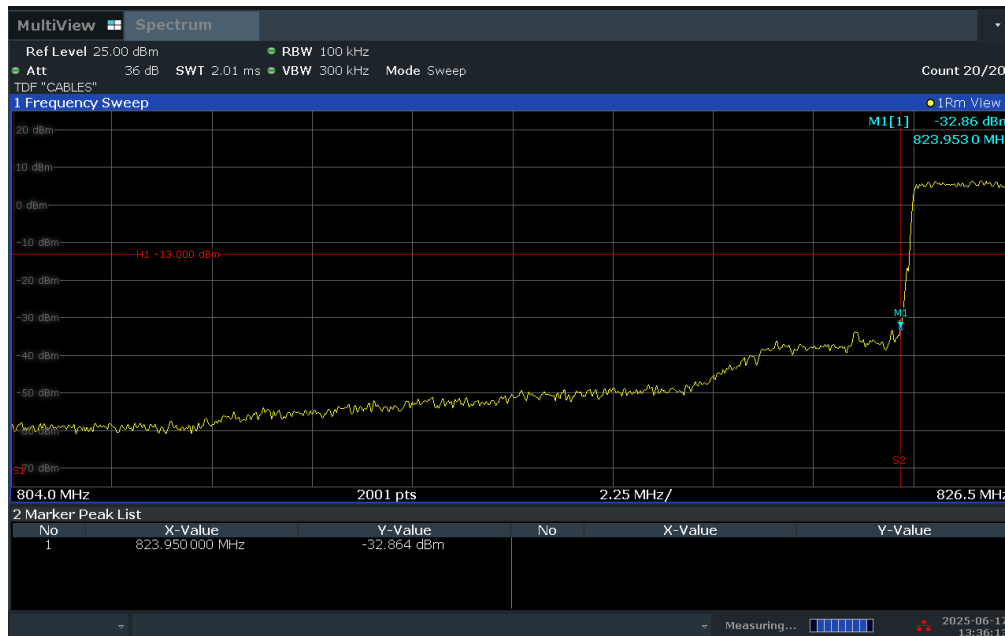
01:34:19 PM 06/17/2025

Plot 7-89. Upper BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)

FCC ID: BCGA3361	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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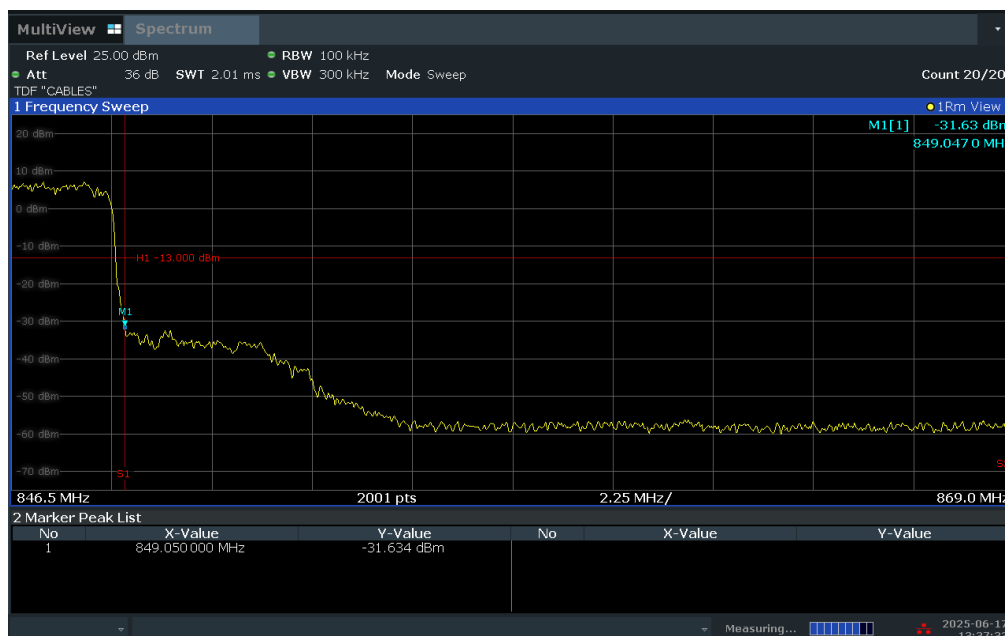
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01:36:14 PM 06/17/2025

Plot 7-90. Lower BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)



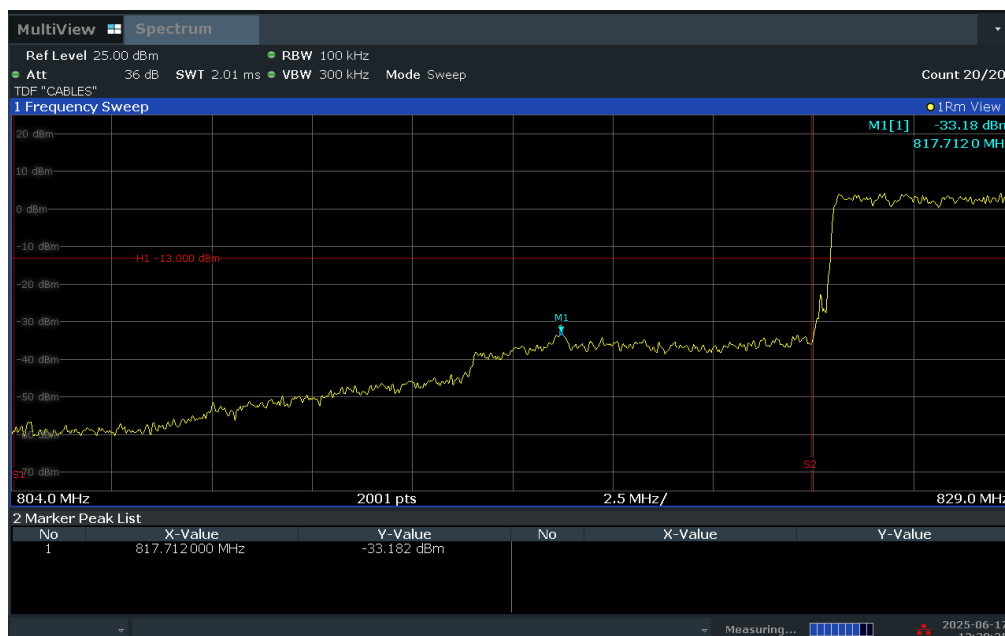
01:37:34 PM 06/17/2025

Plot 7-91. Upper BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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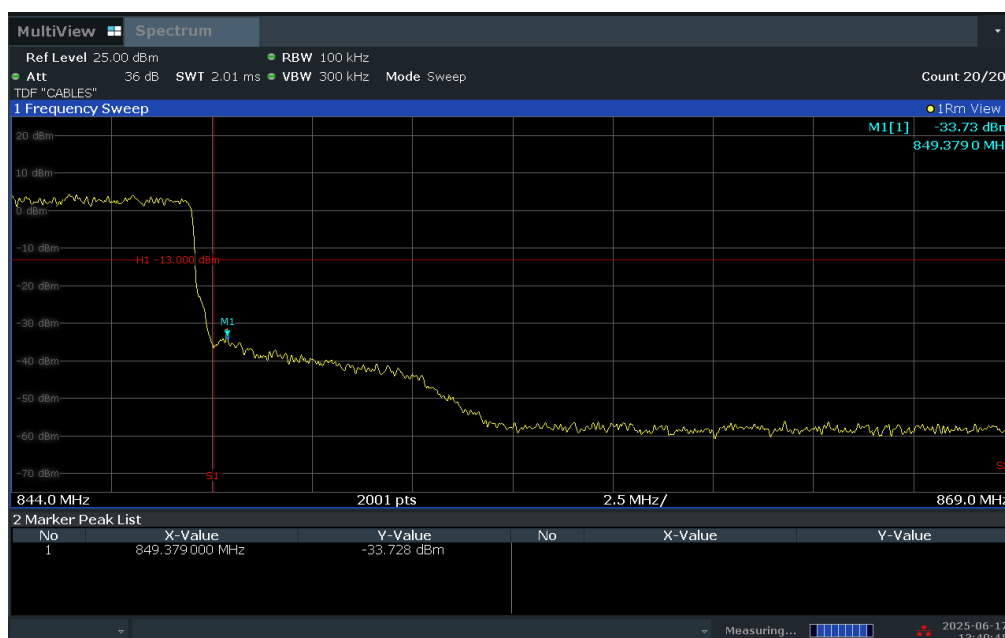
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01:39:25 PM 06/17/2025

Plot 7-92. Lower BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)



01:40:46 PM 06/17/2025

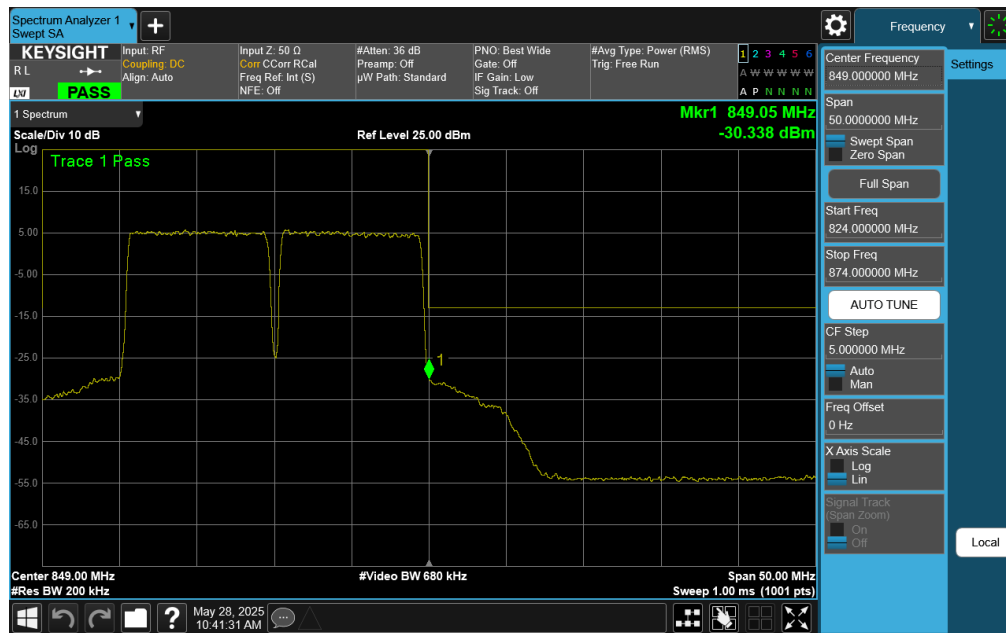
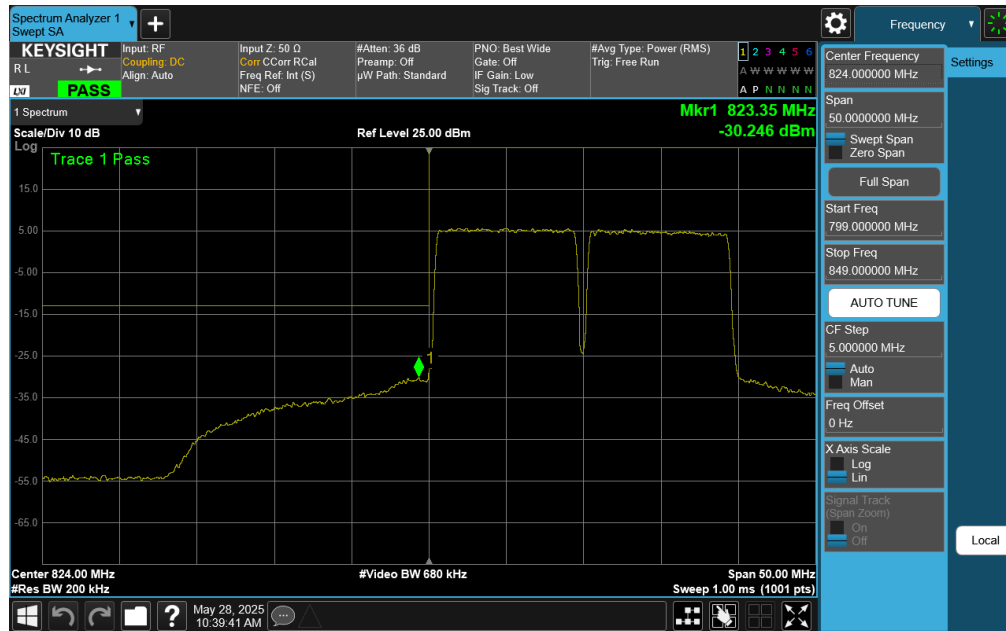
Plot 7-93. Upper BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA - LTE Band 5

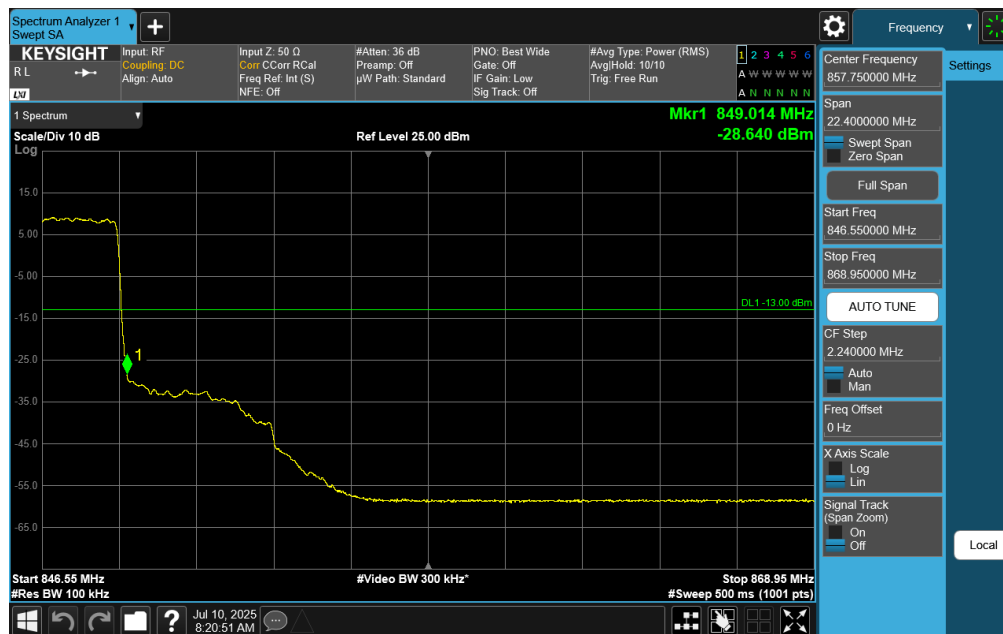
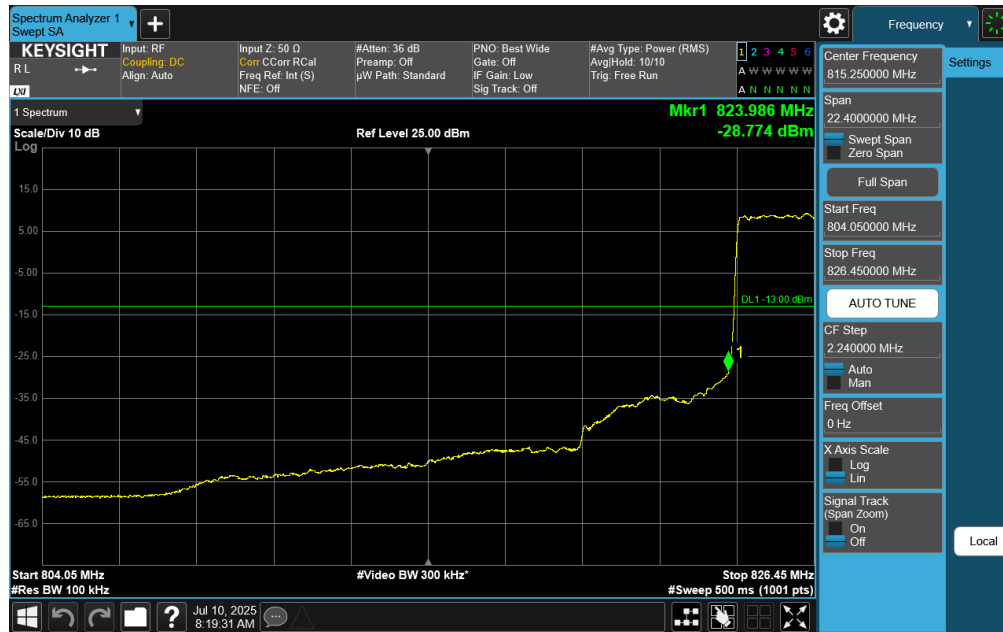


FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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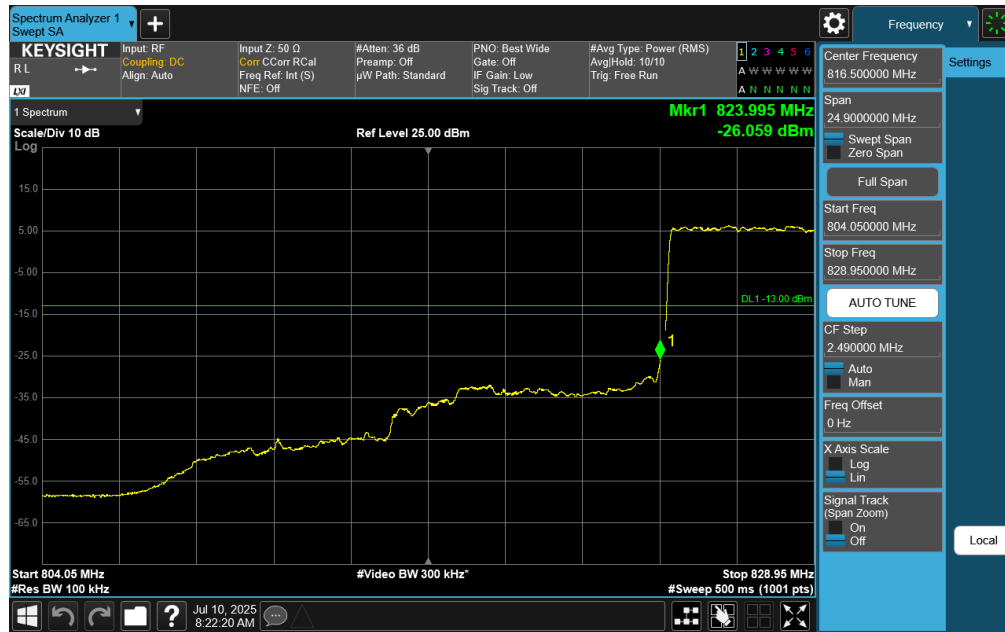
NR Band n26



FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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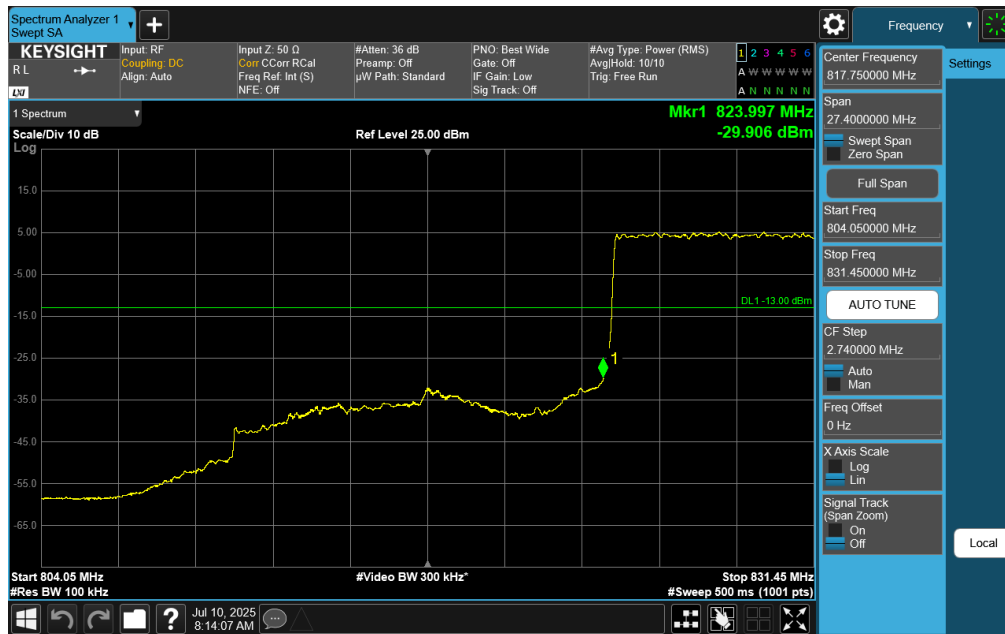
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FCC ID: BCGA3361	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-100. Lower BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

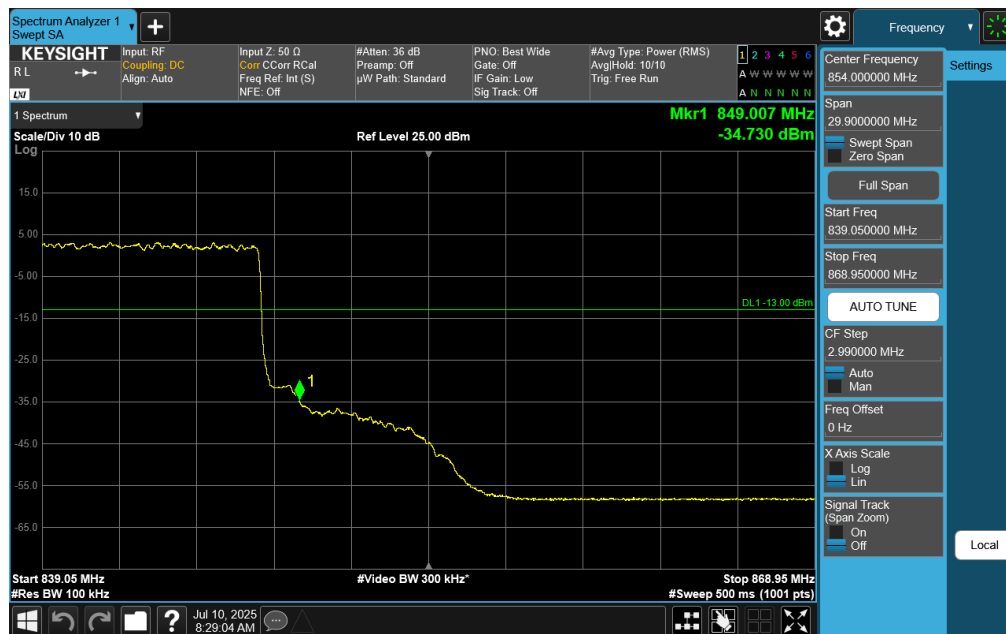
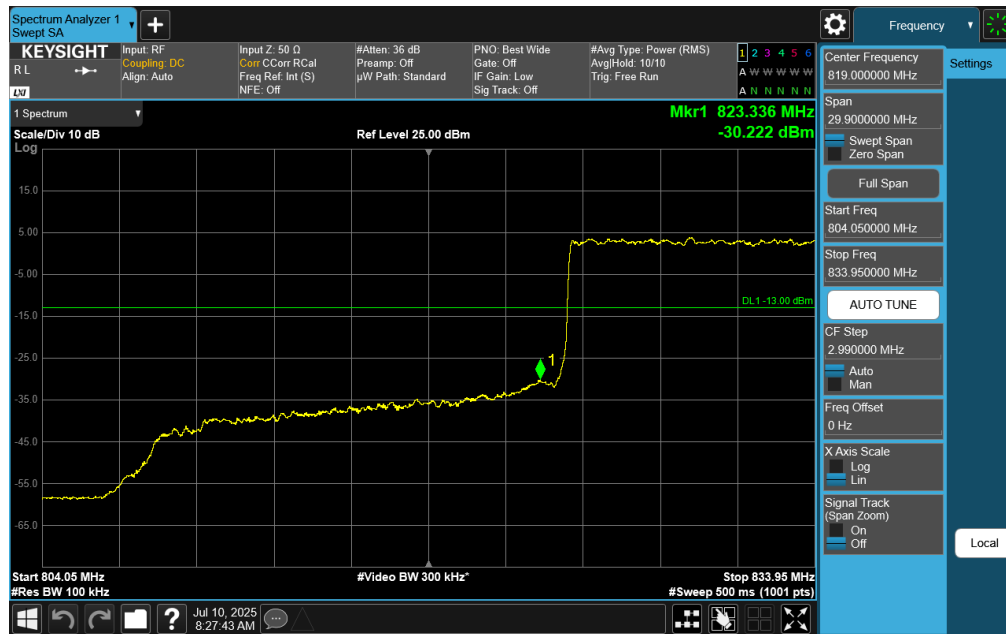


Plot 7-101. Upper BE Plot (NR Band n26 DFT-s-OFDM QPSK – 15.0MHz - Full RB)

FCC ID: BCGA3361	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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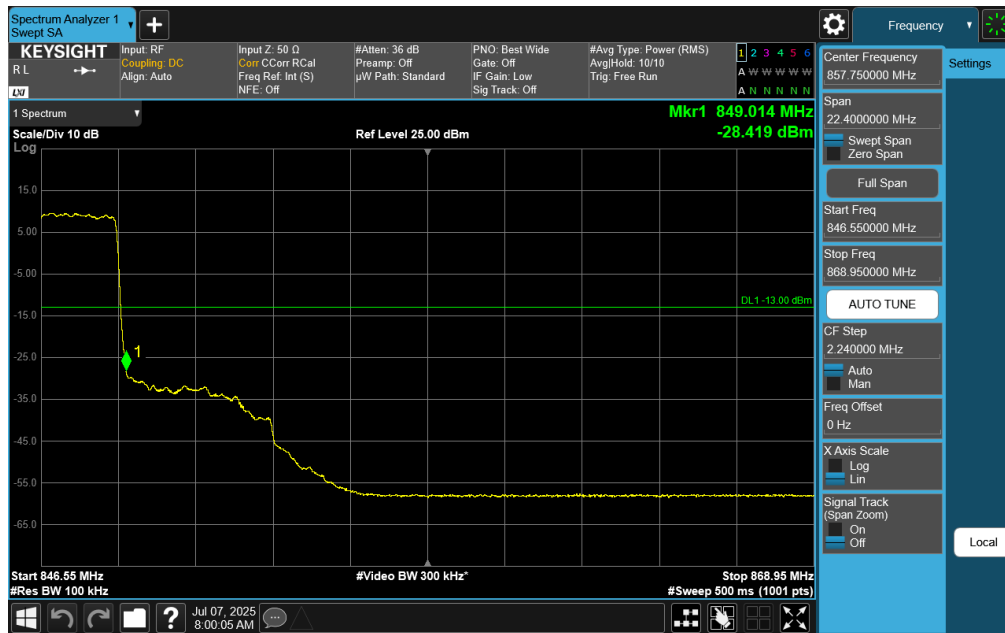
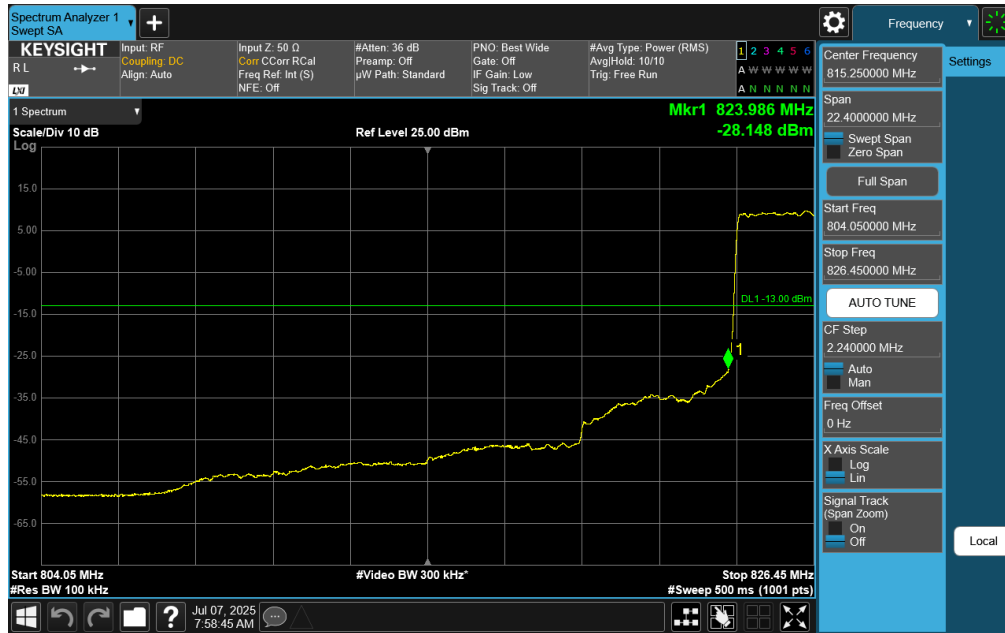


FCC ID: BCGA3361	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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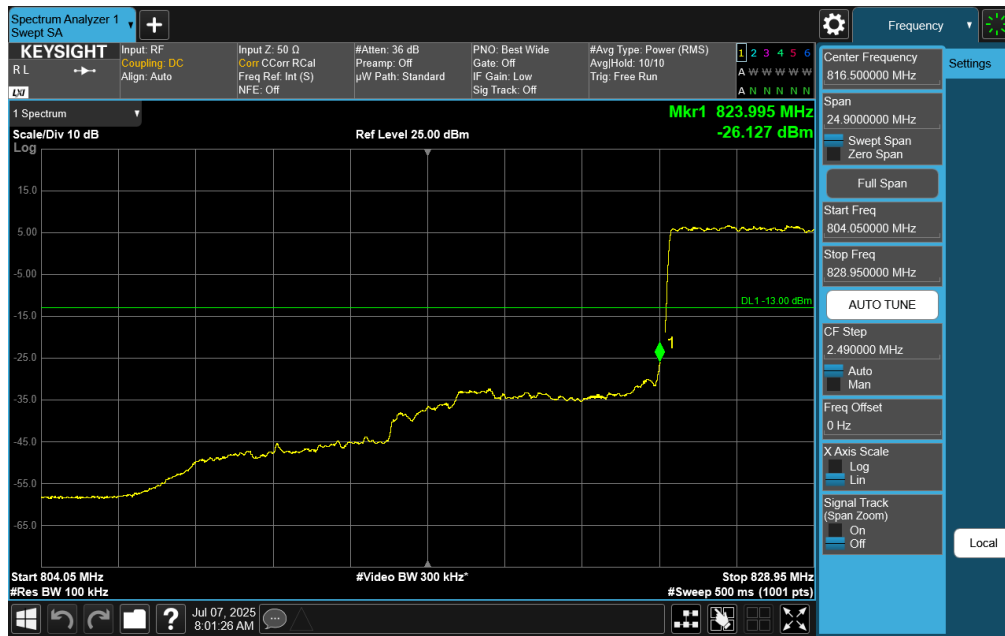
NR Band n5



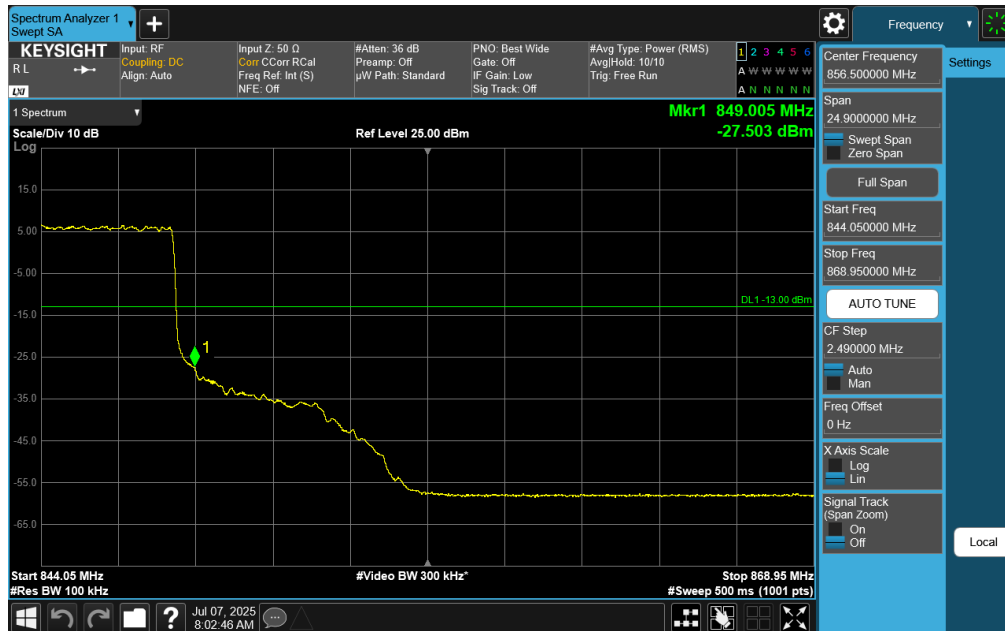
FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-07-R1.BCG	Test Dates: 05/09/2025 - 08/06/2025	EUT Type: Tablet Device
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Plot 7-106. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz - Full RB)

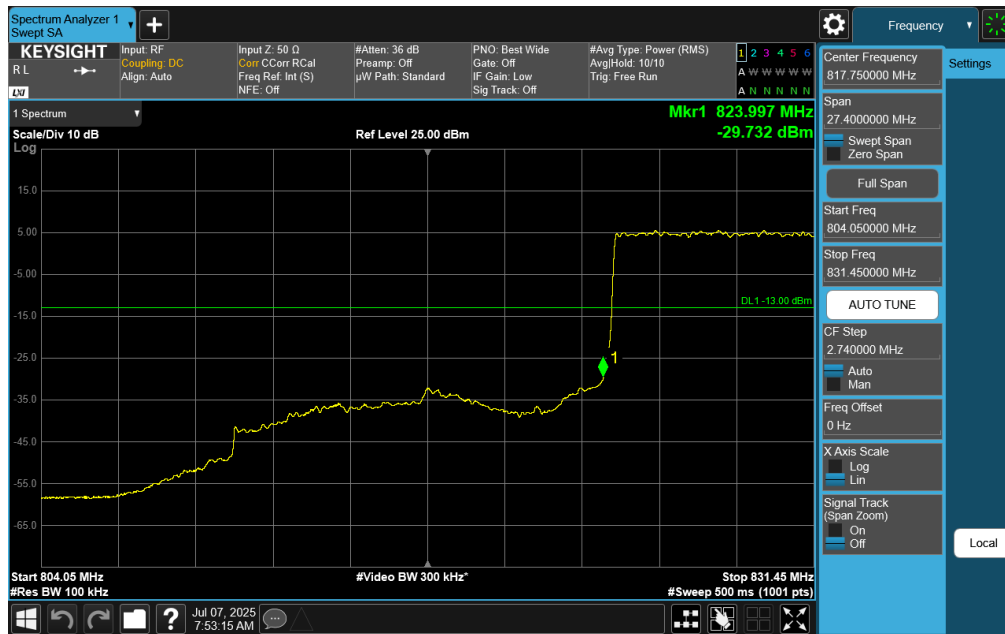


Plot 7-107. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz - Full RB)

FCC ID: BCGA3361	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-108. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

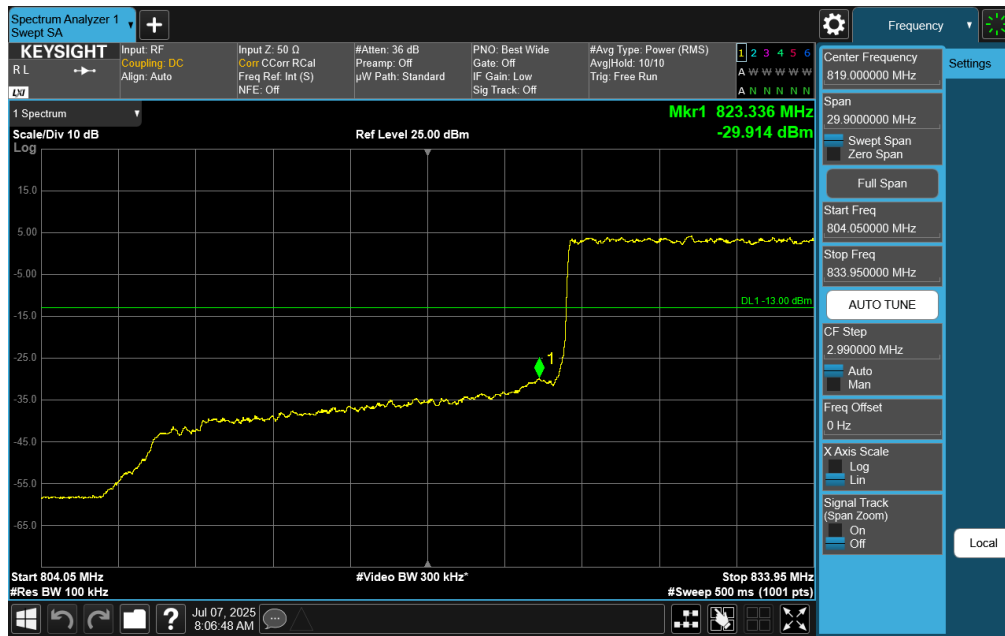


Plot 7-109. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 15.0MHz - Full RB)

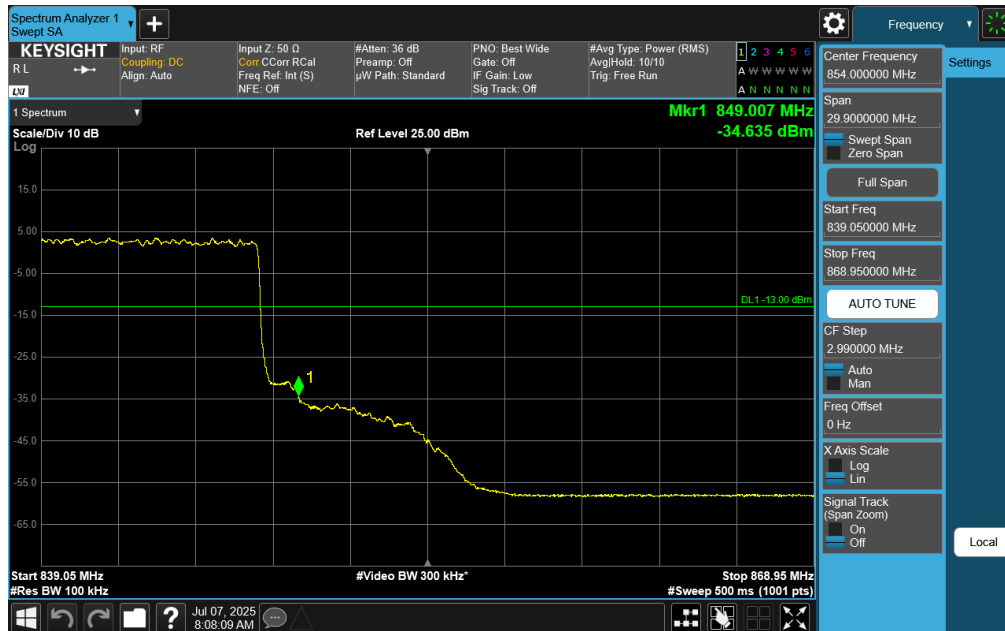
FCC ID: BCGA3361	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-07-R1.BCG	Test Dates: 05/09/2025 - 08/06/2025	EUT Type: Tablet Device	Page 75 of 112

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Plot 7-110. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 20.0MHz - Full RB)

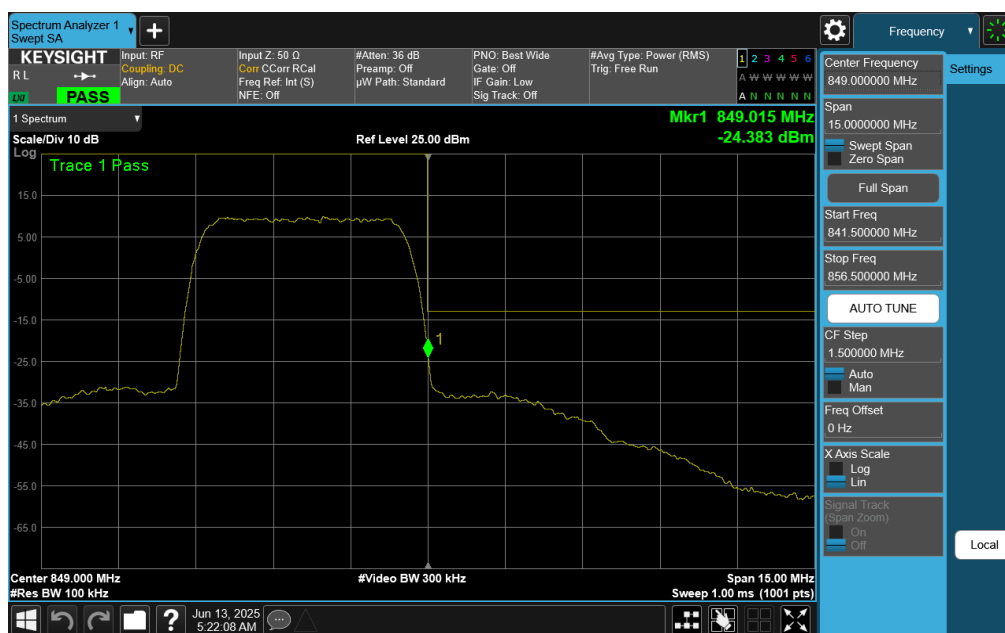
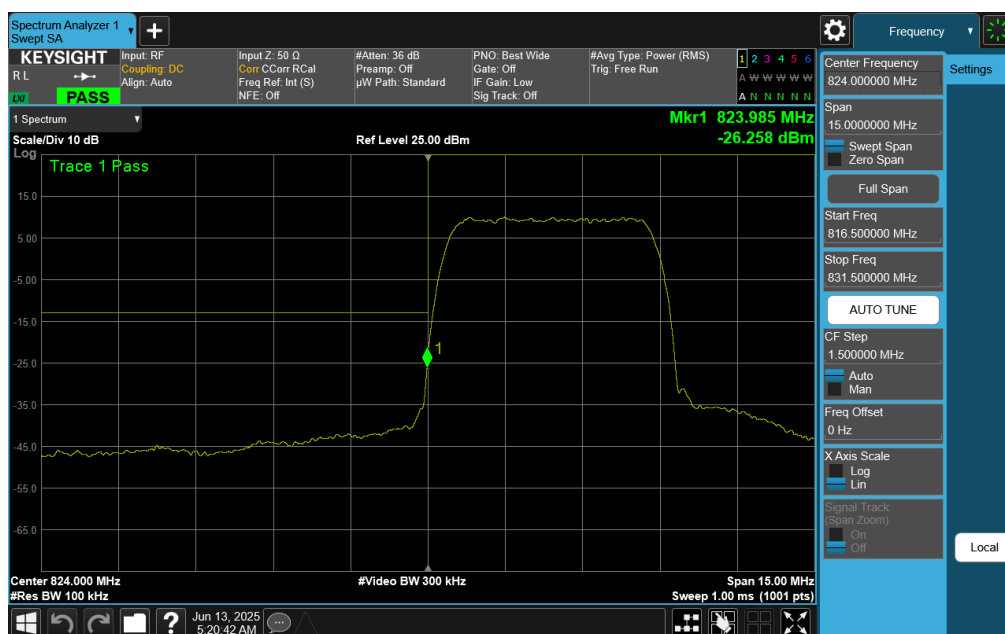


Plot 7-111. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 20.0MHz - Full RB)

FCC ID: BCGA3361	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA Cell



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7.5 Radiated Power (ERP)

§22.913(a)(5)

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 – Section 5.2.5.5

Test Settings

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

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

Where:

ERP = Effective Radiated Power, respectively (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) or dBi (EIRP)

Test Setup

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

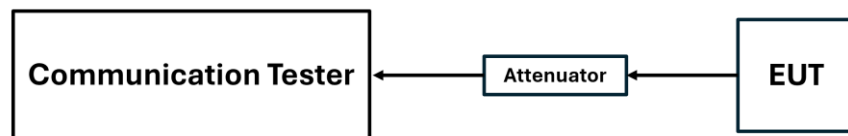


Figure 7-7. LTE Test Instrument & Measurement Setup

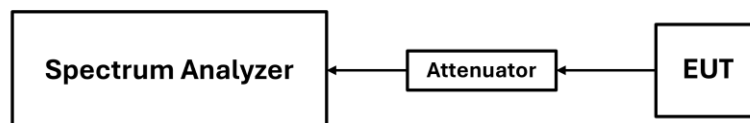


Figure 7-8. FR1 Test Instrument & Measurement Setup

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Test Notes:

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT 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. Uplink carrier aggregation for LTE B5 is only supported in this EUT while operating in Power Class 3.
5. Conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
6. The Ant. Gains (GT) are listed in dBi.
7. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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7.5.1 Antenna 3 – ERP

LTE Band 26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.80	1 / 3	25.13	20.18	0.104	38.45	-18.28
		836.5	-2.80	1 / 0	25.27	20.32	0.108	38.45	-18.13
		848.3	-2.80	1 / 0	25.18	20.23	0.105	38.45	-18.22
	16-QAM	836.5	-2.80	1 / 0	24.14	19.19	0.083	38.45	-19.26
	64-QAM	824.7	-2.80	1 / 5	23.44	18.49	0.071	38.45	-19.96
	256-QAM	824.7	-2.80	6 / 0	20.30	15.35	0.034	38.45	-23.10
3 MHz	QPSK	825.5	-2.80	1 / 0	25.17	20.22	0.105	38.45	-18.23
		836.5	-2.80	1 / 0	25.21	20.26	0.106	38.45	-18.19
		847.5	-2.80	1 / 7	25.12	20.17	0.104	38.45	-18.28
	16-QAM	836.5	-2.80	1 / 0	24.21	19.26	0.084	38.45	-19.20
	64-QAM	825.5	-2.80	1 / 7	23.08	18.13	0.065	38.45	-20.32
	256-QAM	825.5	-2.80	15 / 0	20.30	15.35	0.034	38.45	-23.10
5 MHz	QPSK	826.5	-2.80	1 / 24	25.09	20.14	0.103	38.45	-18.31
		836.5	-2.80	1 / 0	25.29	20.34	0.108	38.45	-18.11
		846.5	-2.80	1 / 12	25.22	20.27	0.106	38.45	-18.18
	16-QAM	836.5	-2.80	1 / 24	24.46	19.51	0.089	38.45	-18.94
	64-QAM	836.5	-2.80	1 / 24	23.27	18.32	0.068	38.45	-20.14
	256-QAM	836.5	-2.80	25 / 0	20.28	15.33	0.034	38.45	-23.12
10 MHz	QPSK	829.0	-2.80	1 / 49	25.11	20.16	0.104	38.45	-18.29
		836.5	-2.80	1 / 49	25.04	20.09	0.102	38.45	-18.36
		844.0	-2.80	1 / 25	25.22	20.27	0.106	38.45	-18.18
	16-QAM	836.5	-2.80	1 / 49	24.25	19.30	0.085	38.45	-19.15
	64-QAM	844.0	-2.80	1 / 25	23.14	18.19	0.066	38.45	-20.26
	256-QAM	844.0	-2.80	50 / 0	20.47	15.52	0.036	38.45	-22.93

Table 7-2. Antenna 3 ERP Data (LTE Band 26)

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LTE Band 5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	829.0	-2.80	1 / 0	25.28	20.33	0.108	38.45	-18.12
		836.5	-2.80	1 / 0	25.12	20.17	0.104	38.45	-18.28
		844.0	-2.80	1 / 3	25.18	20.23	0.105	38.45	-18.22
	16-QAM	844.0	-2.80	1 / 0	24.16	19.21	0.083	38.45	-19.24
	64-QAM	836.5	-2.80	1 / 0	23.05	18.10	0.065	38.45	-20.35
	256-QAM	829.0	-2.80	6 / 0	20.23	15.28	0.034	38.45	-23.17
3 MHz	QPSK	829.0	-2.80	1 / 0	25.19	20.24	0.106	38.45	-18.21
		836.5	-2.80	1 / 7	25.16	20.21	0.105	38.45	-18.24
		844.0	-2.80	1 / 0	25.12	20.17	0.104	38.45	-18.28
	16-QAM	844.0	-2.80	1 / 0	24.12	19.17	0.083	38.45	-19.28
	64-QAM	836.5	-2.80	1 / 0	23.05	18.10	0.065	38.45	-20.35
	256-QAM	836.5	-2.80	15 / 0	20.26	15.31	0.034	38.45	-23.14
5 MHz	QPSK	829.0	-2.80	1 / 0	25.18	20.23	0.105	38.45	-18.22
		836.5	-2.80	1 / 0	25.21	20.26	0.106	38.45	-18.19
		844.0	-2.80	1 / 0	25.11	20.16	0.104	38.45	-18.29
	16-QAM	836.5	-2.80	1 / 12	24.42	19.47	0.089	38.45	-18.98
	64-QAM	836.5	-2.80	1 / 12	23.12	18.17	0.066	38.45	-20.28
	256-QAM	844.0	-2.80	25 / 0	20.31	15.36	0.034	38.45	-23.09
10 MHz	QPSK	829.0	-2.80	1 / 0	25.09	20.14	0.103	38.45	-18.31
		836.5	-2.80	1 / 0	25.13	20.18	0.104	38.45	-18.27
		844.0	-2.80	1 / 25	25.04	20.09	0.102	38.45	-18.36
	16-QAM	836.5	-2.80	1 / 49	24.36	19.41	0.087	38.45	-19.04
	64-QAM	836.5	-2.80	1 / 49	23.20	18.25	0.067	38.45	-20.20
	256-QAM	844.0	-2.80	50 / 0	20.27	15.32	0.034	38.45	-23.13

Table 7-3. Antenna 3 ERP Data (LTE Band 5)

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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset							
Max	LTE B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	25.41	-2.80	20.46	0.111	38.45	-17.99	
				20475	831.5	1	49		20574	841.4	1	0	25.46	-2.80	20.51	0.112	38.45	-17.94	
				20600	844.0	1	0		20501	834.1	1	49	25.38	-2.80	20.43	0.110	38.45	-18.02	
			QPSK	20475	831.5	50	0	QPSK	20574	841.4	50	0	22.96	-2.80	18.01	0.063	38.45	-20.44	
			16-QAM	20475	831.5	50	0	16-QAM	20574	841.4	50	0	21.89	-2.80	16.94	0.049	38.45	-21.51	
			64-QAM	20475	831.5	50	0	64-QAM	20574	841.4	50	0	21.78	-2.80	16.83	0.048	38.45	-21.62	
			256-QAM	20475	831.5	50	0	256-QAM	20574	841.4	50	0	19.82	-2.80	14.87	0.031	38.45	-23.58	

Table 7-4. Antenna 3 ERP Data (ULCA LTE Band 5)

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NR Band n26

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	829.0	-2.80	25 / 0	25.09	20.14	0.103	38.45	-18.31
		836.5	-2.80	1 / 12	25.17	20.22	0.105	38.45	-18.23
		844.0	-2.80	25 / 0	25.14	20.19	0.104	38.45	-18.26
	QPSK	829.0	-2.80	1 / 1	25.19	20.24	0.106	38.45	-18.21
		836.5	-2.80	1 / 1	25.22	20.27	0.106	38.45	-18.18
		844.0	-2.80	1 / 12	25.11	20.16	0.104	38.45	-18.30
	16-QAM	844.0	-2.80	1 / 23	23.89	18.94	0.078	38.45	-19.51
	64-QAM	829.0	-2.80	25 / 0	23.23	18.28	0.067	38.45	-20.17
	256-QAM	836.5	-2.80	25 / 0	21.25	16.30	0.043	38.45	-22.15
10 MHz	$\pi/2$ BPSK	829.0	-2.80	50 / 0	25.13	20.18	0.104	38.45	-18.27
		836.5	-2.80	50 / 0	25.25	20.30	0.107	38.45	-18.15
		844.0	-2.80	50 / 0	25.27	20.32	0.108	38.45	-18.13
	QPSK	829.0	-2.80	1 / 1	25.17	20.22	0.105	38.45	-18.23
		836.5	-2.80	1 / 50	25.20	20.25	0.106	38.45	-18.21
		844.0	-2.80	1 / 1	25.22	20.27	0.106	38.45	-18.18
	16-QAM	844.0	-2.80	1 / 1	24.10	19.15	0.082	38.45	-19.30
	64-QAM	844.0	-2.80	50 / 0	23.17	18.22	0.066	38.45	-20.23
	256-QAM	844.0	-2.80	50 / 0	21.16	16.21	0.042	38.45	-22.24
15 MHz	$\pi/2$ BPSK	831.5	-2.80	75 / 0	25.09	20.14	0.103	38.45	-18.31
		836.5	-2.80	1 / 77	25.11	20.16	0.104	38.45	-18.29
		841.5	-2.80	1 / 36	25.11	20.16	0.104	38.45	-18.29
	QPSK	831.5	-2.80	1 / 1	25.00	20.05	0.101	38.45	-18.40
		836.5	-2.80	1 / 36	25.10	20.15	0.104	38.45	-18.30
		841.5	-2.80	1 / 1	25.07	20.12	0.103	38.45	-18.33
	16-QAM	836.5	-2.80	1 / 36	24.10	19.15	0.082	38.45	-19.30
	64-QAM	836.5	-2.80	75 / 0	23.21	18.26	0.067	38.45	-20.19
	256-QAM	841.5	-2.80	75 / 0	21.14	16.19	0.042	38.45	-22.26
20 MHz	$\pi/2$ BPSK	834.0	-2.80	1 / 104	25.11	20.16	0.104	38.45	-18.29
		836.5	-2.80	100 / 0	25.13	20.18	0.104	38.45	-18.27
		839.0	-2.80	100 / 0	25.15	20.20	0.105	38.45	-18.25
	QPSK	834.0	-2.80	1 / 104	25.10	20.15	0.104	38.45	-18.30
		836.5	-2.80	1 / 1	25.09	20.14	0.103	38.45	-18.31
		839.0	-2.80	1 / 50	25.06	20.11	0.103	38.45	-18.34
	16-QAM	834.0	-2.80	1 / 104	23.91	18.96	0.079	38.45	-19.49
	64-QAM	836.5	-2.80	100 / 0	23.21	18.26	0.067	38.45	-20.19
	256-QAM	836.5	-2.80	100 / 0	21.22	16.27	0.042	38.45	-22.18

Table 7-5. Antenna 3 ERP Data (NR Band n26)

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NR Band n5

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	829.0	-2.80	1 / 12	25.13	20.18	0.104	38.45	-18.28
		836.5	-2.80	1 / 12	25.06	20.11	0.103	38.45	-18.34
		844.0	-2.80	25 / 0	25.01	20.06	0.101	38.45	-18.39
	QPSK	829.0	-2.80	1 / 1	25.26	20.31	0.107	38.45	-18.14
		836.5	-2.80	1 / 23	25.21	20.26	0.106	38.45	-18.19
		844.0	-2.80	1 / 23	25.05	20.10	0.102	38.45	-18.35
	16-QAM	829.0	-2.80	1 / 1	23.85	18.90	0.078	38.45	-19.55
	64-QAM	836.5	-2.80	25 / 0	23.11	18.16	0.066	38.45	-20.29
	256-QAM	836.5	-2.80	25 / 0	21.18	16.23	0.042	38.45	-22.22
10 MHz	$\pi/2$ BPSK	829.0	-2.80	50 / 0	25.08	20.13	0.103	38.45	-18.32
		836.5	-2.80	50 / 0	25.10	20.15	0.103	38.45	-18.30
		844.0	-2.80	50 / 0	25.10	20.15	0.103	38.45	-18.30
	QPSK	829.0	-2.80	1 / 50	25.03	20.08	0.102	38.45	-18.37
		836.5	-2.80	1 / 50	25.20	20.25	0.106	38.45	-18.20
		844.0	-2.80	1 / 1	25.25	20.30	0.107	38.45	-18.15
	16-QAM	844.0	-2.80	1 / 1	23.97	19.02	0.080	38.45	-19.43
	64-QAM	836.5	-2.80	50 / 0	23.09	18.14	0.065	38.45	-20.31
	256-QAM	844.0	-2.80	50 / 0	21.10	16.15	0.041	38.45	-22.30
15 MHz	$\pi/2$ BPSK	831.5	-2.80	75 / 0	25.11	20.16	0.104	38.45	-18.29
		836.5	-2.80	75 / 0	25.06	20.11	0.103	38.45	-18.34
		841.5	-2.80	75 / 0	25.05	20.10	0.102	38.45	-18.35
	QPSK	831.5	-2.80	1 / 77	25.16	20.21	0.105	38.45	-18.24
		836.5	-2.80	1 / 36	25.07	20.12	0.103	38.45	-18.33
		841.5	-2.80	1 / 36	25.05	20.10	0.102	38.45	-18.35
	16-QAM	836.5	-2.80	1 / 77	23.85	18.90	0.078	38.45	-19.55
	64-QAM	841.5	-2.80	75 / 0	23.06	18.11	0.065	38.45	-20.34
	256-QAM	836.5	-2.80	75 / 0	20.95	16.00	0.040	38.45	-22.45
20 MHz	$\pi/2$ BPSK	834.0	-2.80	1 / 104	25.21	20.26	0.106	38.45	-18.19
		836.5	-2.80	100 / 0	25.08	20.13	0.103	38.45	-18.32
		839.0	-2.80	100 / 0	25.02	20.07	0.102	38.45	-18.38
	QPSK	834.0	-2.80	1 / 104	25.12	20.17	0.104	38.45	-18.28
		836.5	-2.80	1 / 1	25.19	20.24	0.106	38.45	-18.21
		839.0	-2.80	1 / 50	25.04	20.09	0.102	38.45	-18.36
	16-QAM	839.0	-2.80	1 / 50	23.84	18.89	0.077	38.45	-19.56
	64-QAM	836.5	-2.80	100 / 0	23.10	18.15	0.065	38.45	-20.30
	256-QAM	836.5	-2.80	100 / 0	21.00	16.05	0.040	38.45	-22.40

Table 7-6. Antenna 3 ERP Data (NR Band n5)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	25.61	-2.80	20.66	0.116	38.45	-17.79
836.60	WCDMA850	25.57	-2.80	20.62	0.115	38.45	-17.83
846.60	WCDMA850	25.63	-2.80	20.68	0.117	38.45	-17.77

Table 7-7. Antenna 3 ERP Data (WCDMA Cell)

FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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7.5.2 Antenna 1 – ERP

LTE Band 26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.30	1 / 0	24.20	19.75	0.094	38.45	-18.70
		836.5	-2.30	1 / 0	24.18	19.73	0.094	38.45	-18.72
		848.3	-2.30	1 / 0	24.06	19.61	0.092	38.45	-18.84
	16-QAM	836.5	-2.30	1 / 5	23.42	18.97	0.079	38.45	-19.48
		848.3	-2.30	1 / 0	22.35	17.90	0.062	38.45	-20.55
	256-QAM	848.3	-2.30	6 / 0	19.59	15.14	0.033	38.45	-23.31
3 MHz	QPSK	825.5	-2.30	1 / 0	24.14	19.69	0.093	38.45	-18.76
		836.5	-2.30	1 / 0	24.09	19.64	0.092	38.45	-18.81
		847.5	-2.30	1 / 0	24.07	19.62	0.092	38.45	-18.83
	16-QAM	847.5	-2.30	1 / 0	23.46	19.01	0.080	38.45	-19.44
	64-QAM	847.5	-2.30	1 / 7	22.68	18.23	0.067	38.45	-20.22
	256-QAM	847.5	-2.30	15 / 0	19.66	15.21	0.033	38.45	-23.24
5 MHz	QPSK	826.5	-2.30	1 / 24	24.25	19.80	0.095	38.45	-18.65
		836.5	-2.30	1 / 12	24.42	19.97	0.099	38.45	-18.48
		846.5	-2.30	1 / 24	24.03	19.58	0.091	38.45	-18.88
	16-QAM	826.5	-2.30	1 / 0	23.57	19.12	0.082	38.45	-19.33
	64-QAM	826.5	-2.30	1 / 24	22.49	18.04	0.064	38.45	-20.41
	256-QAM	836.5	-2.30	25 / 0	19.71	15.26	0.034	38.45	-23.20
10 MHz	QPSK	829.0	-2.30	1 / 0	24.26	19.81	0.096	38.45	-18.64
		836.5	-2.30	1 / 49	24.25	19.80	0.096	38.45	-18.65
		844.0	-2.30	1 / 49	24.09	19.64	0.092	38.45	-18.81
	16-QAM	836.5	-2.30	1 / 25	23.74	19.29	0.085	38.45	-19.16
	64-QAM	829.0	-2.30	1 / 49	22.55	18.10	0.065	38.45	-20.35
	256-QAM	836.5	-2.30	50 / 0	19.76	15.31	0.034	38.45	-23.14

Table 7-8. Antenna 1 ERP Data (LTE Band 26)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	829.0	-2.30	1 / 0	24.28	19.83	0.096	38.45	-18.62
		836.5	-2.30	1 / 0	24.11	19.66	0.092	38.45	-18.79
		844.0	-2.30	1 / 5	24.06	19.61	0.091	38.45	-18.84
	16-QAM	836.5	-2.30	1 / 0	23.60	19.15	0.082	38.45	-19.30
	64-QAM	844.0	-2.30	1 / 0	22.35	17.90	0.062	38.45	-20.55
	256-QAM	836.5	-2.30	6 / 0	19.64	15.19	0.033	38.45	-23.26
3 MHz	QPSK	829.0	-2.30	1 / 0	24.12	19.67	0.093	38.45	-18.78
		836.5	-2.30	1 / 0	24.08	19.63	0.092	38.45	-18.82
		844.0	-2.30	1 / 0	24.19	19.74	0.094	38.45	-18.71
	16-QAM	836.5	-2.30	1 / 0	23.62	19.17	0.083	38.45	-19.28
	64-QAM	844.0	-2.30	1 / 7	22.71	18.26	0.067	38.45	-20.19
	256-QAM	844.0	-2.30	15 / 0	19.55	15.10	0.032	38.45	-23.35
5 MHz	QPSK	829.0	-2.30	1 / 24	24.28	19.83	0.096	38.45	-18.62
		836.5	-2.30	1 / 0	24.26	19.81	0.096	38.45	-18.64
		844.0	-2.30	1 / 0	24.12	19.67	0.093	38.45	-18.78
	16-QAM	829.0	-2.30	1 / 24	23.77	19.32	0.085	38.45	-19.14
	64-QAM	844.0	-2.30	1 / 0	22.38	17.93	0.062	38.45	-20.52
	256-QAM	836.5	-2.30	25 / 0	19.67	15.22	0.033	38.45	-23.23
10 MHz	QPSK	829.0	-2.30	1 / 0	24.18	19.73	0.094	38.45	-18.72
		836.5	-2.30	1 / 0	24.23	19.78	0.095	38.45	-18.67
		844.0	-2.30	1 / 0	24.18	19.73	0.094	38.45	-18.72
	16-QAM	836.5	-2.30	1 / 0	23.58	19.13	0.082	38.45	-19.32
	64-QAM	844.0	-2.30	1 / 0	22.47	18.02	0.063	38.45	-20.43
	256-QAM	829.0	-2.30	50 / 0	19.73	15.28	0.034	38.45	-23.17

Table 7-9. Antenna 1 ERP Data (LTE Band 5)

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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCATx. Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	24.24	-2.30	19.79	0.095	38.45	-18.66
				20475	831.5	1	49		20574	841.4	1	0	24.32	-2.30	19.87	0.097	38.45	-18.58
				20600	844.0	1	0		20501	834.1	1	49	24.26	-2.30	19.81	0.096	38.45	-18.64
			QPSK	20475	831.5	50	0	QPSK	20574	841.4	50	0	22.02	-2.30	17.57	0.057	38.45	-20.88
			16-QAM	20475	831.5	50	0	16-QAM	20574	841.4	50	0	20.94	-2.30	16.49	0.045	38.45	-21.96
			64-QAM	20475	831.5	50	0	64-QAM	20574	841.4	50	0	20.87	-2.30	16.42	0.044	38.45	-22.03
			256-QAM	20475	831.5	50	0	256-QAM	20574	841.4	50	0	18.91	-2.30	14.46	0.028	38.45	-23.99

Table 7-10. Antenna 1 ERP Data (ULCA LTE Band 5)

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NR Band n26

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	829.0	-2.30	25 / 0	24.18	19.73	0.094	38.45	-18.72
		836.5	-2.30	25 / 0	24.16	19.71	0.094	38.45	-18.74
		844.0	-2.30	25 / 0	24.33	19.88	0.097	38.45	-18.57
	QPSK	829.0	-2.30	1 / 12	24.21	19.76	0.095	38.45	-18.69
		836.5	-2.30	1 / 12	24.17	19.72	0.094	38.45	-18.73
		844.0	-2.30	1 / 12	24.23	19.78	0.095	38.45	-18.67
	16-QAM	844.0	-2.30	1 / 23	22.87	18.42	0.069	38.45	-20.03
	64-QAM	836.5	-2.30	25 / 0	22.09	17.64	0.058	38.45	-20.81
	256-QAM	836.5	-2.30	25 / 0	20.06	15.61	0.036	38.45	-22.84
10 MHz	$\pi/2$ BPSK	829.0	-2.30	1 / 50	24.11	19.66	0.092	38.45	-18.79
		836.5	-2.30	1 / 1	24.23	19.78	0.095	38.45	-18.67
		844.0	-2.30	50 / 0	24.19	19.74	0.094	38.45	-18.71
	QPSK	829.0	-2.30	1 / 25	24.13	19.68	0.093	38.45	-18.77
		836.5	-2.30	1 / 25	24.35	19.90	0.098	38.45	-18.55
		844.0	-2.30	1 / 1	24.20	19.75	0.094	38.45	-18.70
	16-QAM	836.5	-2.30	1 / 1	23.31	18.86	0.077	38.45	-19.59
	64-QAM	836.5	-2.30	50 / 0	22.14	17.69	0.059	38.45	-20.76
	256-QAM	836.5	-2.30	50 / 0	20.23	15.78	0.038	38.45	-22.67
15 MHz	$\pi/2$ BPSK	831.5	-2.30	75 / 0	24.09	19.64	0.092	38.45	-18.81
		836.5	-2.30	75 / 0	24.03	19.58	0.091	38.45	-18.87
		841.5	-2.30	75 / 0	24.20	19.75	0.094	38.45	-18.71
	QPSK	831.5	-2.30	1 / 1	24.20	19.75	0.094	38.45	-18.70
		836.5	-2.30	1 / 1	24.06	19.61	0.091	38.45	-18.84
		841.5	-2.30	1 / 1	24.25	19.80	0.095	38.45	-18.65
	16-QAM	831.5	-2.30	1 / 77	22.84	18.39	0.069	38.45	-20.07
	64-QAM	831.5	-2.30	75 / 0	22.15	17.70	0.059	38.45	-20.75
	256-QAM	831.5	-2.30	75 / 0	20.07	15.62	0.036	38.45	-22.83
20 MHz	$\pi/2$ BPSK	834.0	-2.30	100 / 0	24.07	19.62	0.092	38.45	-18.84
		836.5	-2.30	1 / 104	24.09	19.64	0.092	38.45	-18.81
		839.0	-2.30	100 / 0	24.09	19.64	0.092	38.45	-18.81
	QPSK	834.0	-2.30	1 / 1	24.12	19.67	0.093	38.45	-18.78
		836.5	-2.30	1 / 50	24.02	19.57	0.091	38.45	-18.88
		839.0	-2.30	1 / 104	24.28	19.83	0.096	38.45	-18.62
	16-QAM	836.5	-2.30	1 / 104	23.11	18.66	0.073	38.45	-19.79
	64-QAM	836.5	-2.30	100 / 0	22.11	17.66	0.058	38.45	-20.79
	256-QAM	836.5	-2.30	100 / 0	20.16	15.71	0.037	38.45	-22.74

Table 7-11. Antenna 1 ERP Data (NR Band n26)

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NR Band n5

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	829.0	-2.30	25 / 0	24.23	19.78	0.095	38.45	-18.67
		836.5	-2.30	25 / 0	24.15	19.70	0.093	38.45	-18.75
		844.0	-2.30	25 / 0	24.25	19.80	0.096	38.45	-18.65
	QPSK	829.0	-2.30	1 / 12	24.12	19.67	0.093	38.45	-18.79
		836.5	-2.30	1 / 12	24.12	19.67	0.093	38.45	-18.78
		844.0	-2.30	1 / 12	24.14	19.69	0.093	38.45	-18.76
	16-QAM	836.5	-2.30	1 / 12	22.94	18.49	0.071	38.45	-19.96
	64-QAM	844.0	-2.30	25 / 0	22.14	17.69	0.059	38.45	-20.76
	256-QAM	829.0	-2.30	25 / 0	20.20	15.75	0.038	38.45	-22.70
10 MHz	$\pi/2$ BPSK	829.0	-2.30	50 / 0	24.11	19.66	0.093	38.45	-18.79
		836.5	-2.30	1 / 1	24.20	19.75	0.094	38.45	-18.70
		844.0	-2.30	50 / 0	24.17	19.72	0.094	38.45	-18.73
	QPSK	829.0	-2.30	1 / 25	24.20	19.75	0.094	38.45	-18.70
		836.5	-2.30	1 / 25	24.25	19.80	0.095	38.45	-18.65
		844.0	-2.30	1 / 25	24.22	19.77	0.095	38.45	-18.68
	16-QAM	836.5	-2.30	1 / 1	23.35	18.90	0.078	38.45	-19.55
	64-QAM	829.0	-2.30	50 / 0	22.20	17.75	0.060	38.45	-20.70
	256-QAM	844.0	-2.30	50 / 0	20.33	15.88	0.039	38.45	-22.57
15 MHz	$\pi/2$ BPSK	831.5	-2.30	75 / 0	24.18	19.73	0.094	38.45	-18.72
		836.5	-2.30	75 / 0	24.13	19.68	0.093	38.45	-18.77
		841.5	-2.30	75 / 0	24.16	19.71	0.094	38.45	-18.74
	QPSK	831.5	-2.30	1 / 77	24.13	19.68	0.093	38.45	-18.77
		836.5	-2.30	1 / 1	24.12	19.67	0.093	38.45	-18.78
		841.5	-2.30	1 / 1	24.22	19.77	0.095	38.45	-18.68
	16-QAM	836.5	-2.30	1 / 1	23.25	18.80	0.076	38.45	-19.65
	64-QAM	841.5	-2.30	75 / 0	22.14	17.69	0.059	38.45	-20.76
	256-QAM	831.5	-2.30	75 / 0	20.02	15.57	0.036	38.45	-22.88
20 MHz	$\pi/2$ BPSK	834.0	-2.30	100 / 0	24.14	19.69	0.093	38.45	-18.76
		836.5	-2.30	1 / 104	24.12	19.67	0.093	38.45	-18.78
		839.0	-2.30	100 / 0	24.15	19.70	0.093	38.45	-18.75
	QPSK	834.0	-2.30	1 / 50	24.05	19.60	0.091	38.45	-18.85
		836.5	-2.30	1 / 104	24.09	19.64	0.092	38.45	-18.81
		839.0	-2.30	1 / 104	24.22	19.77	0.095	38.45	-18.69
	16-QAM	836.5	-2.30	1 / 104	23.01	18.56	0.072	38.45	-19.89
	64-QAM	839.0	-2.30	100 / 0	22.28	17.83	0.061	38.45	-20.62
	256-QAM	836.5	-2.30	100 / 0	20.20	15.75	0.038	38.45	-22.70

Table 7-12. Antenna 1 ERP Data (NR Band n5)

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WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	24.58	-2.30	20.13	0.103	38.45	-18.32
836.60	WCDMA850	24.60	-2.30	20.15	0.104	38.45	-18.30
846.60	WCDMA850	24.66	-2.30	20.21	0.105	38.45	-18.24

Table 7-13. Antenna 1 ERP Data (WCDMA Cell)

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7.6 Radiated Spurious Emissions

§2.1053, 22.917(a)

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 tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

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.

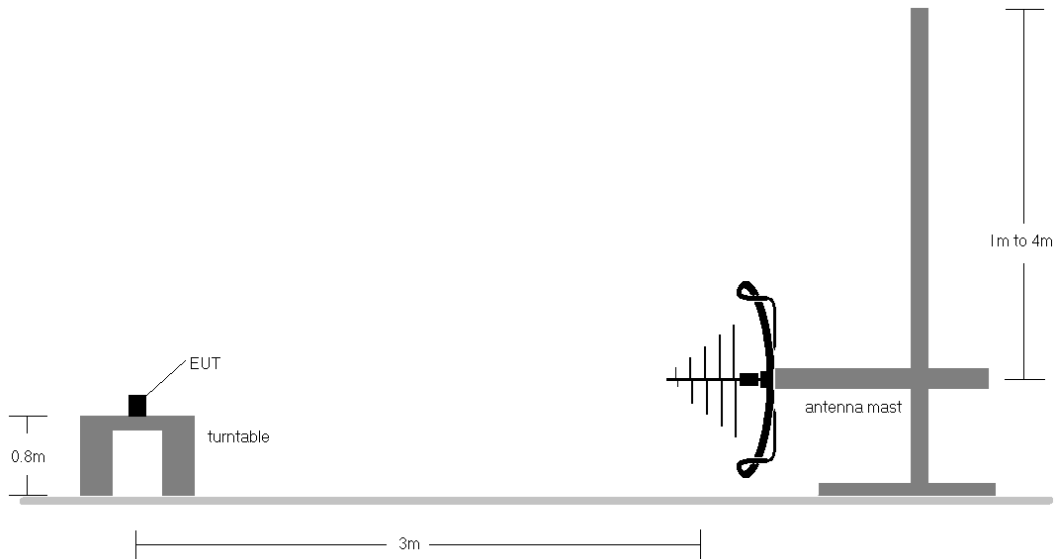


Figure 7-9. Test Instrument & Measurement Setup < 1GHz

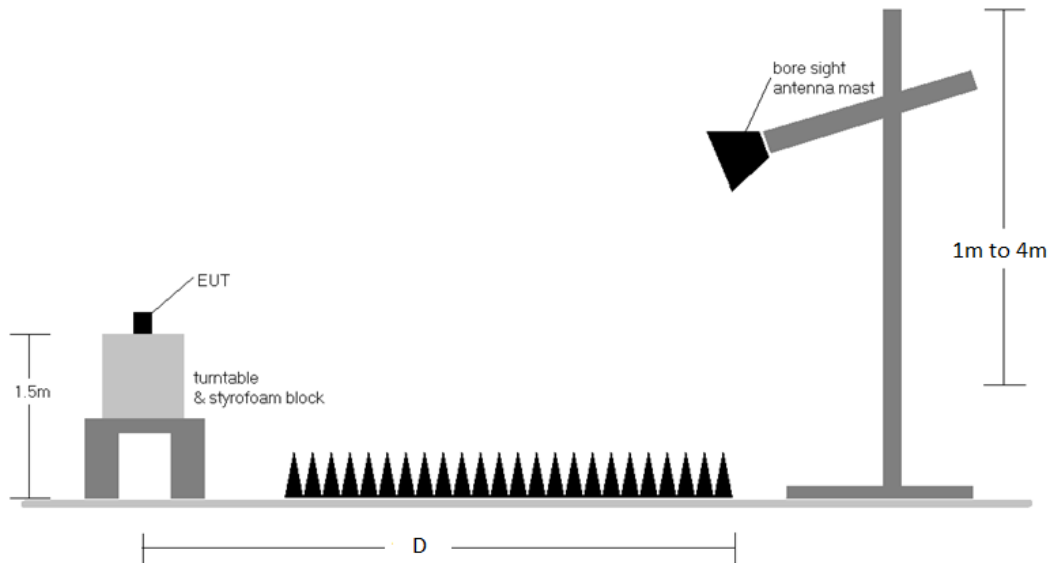


Figure 7-10. Test Instrument & Measurement Setup >1 GHz

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Test Notes

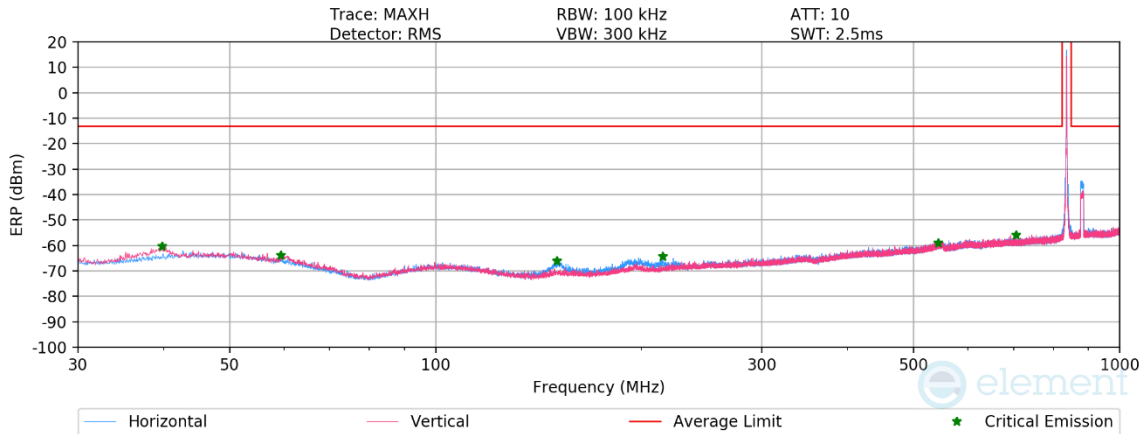
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
9. 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.
10. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.
11. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.
12. Pre-scan plots have been reported for the highest power antenna while measurements have been reported for all antennas.

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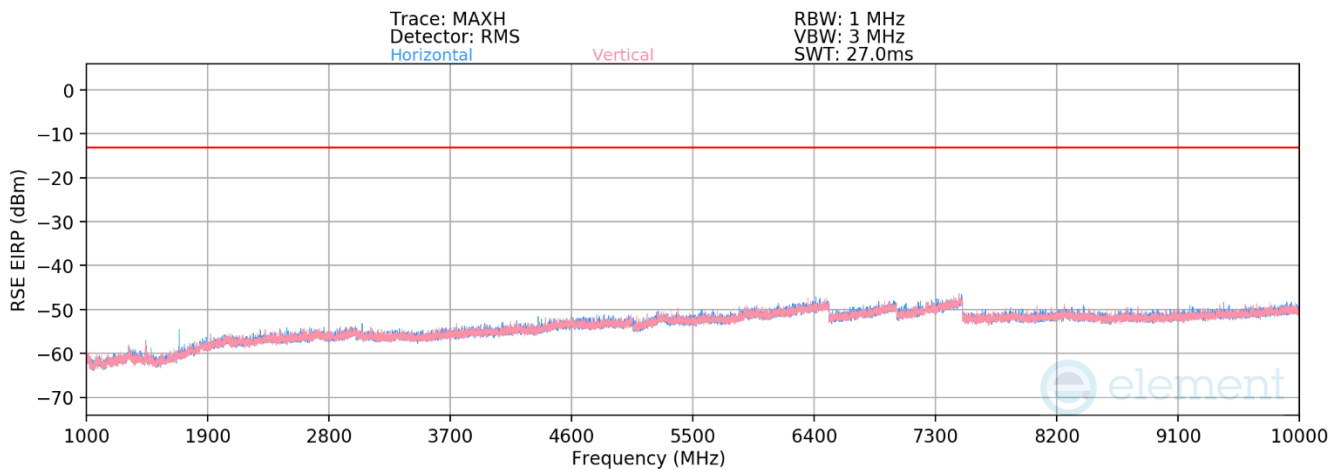
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7.6.1 Antenna 3 – Radiated Spurious Emission Measurements

LTE Band 26/5



Plot 7-114. Antenna 3 Radiated Spurious Plot below 1GHz (LTE Band 26/5)



Plot 7-115. Antenna 3 Radiated Spurious Plot above 1GHz (LTE Band 26/5)

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Bandwidth (MHz):	10
Frequency (MHz):	829.0
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]
1658.0	H	255	217	-73.62	-1.44	31.94	-63.32	-13.00	-50.32
2487.0	H	-	-	-78.23	2.55	31.32	-63.94	-13.00	-50.94
3316.0	V	-	-	-78.61	4.47	32.86	-62.40	-13.00	-49.40
4145.0	H	-	-	-79.55	6.08	33.53	-61.73	-13.00	-48.73

Table 7-14. Antenna 3 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
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]
1673.0	H	251	218	-73.55	-1.65	31.80	-63.46	-13.00	-50.46
2509.5	H	-	-	-78.11	2.52	31.41	-63.85	-13.00	-50.85
3346.0	V	-	-	-79.22	4.87	32.64	-62.61	-13.00	-49.61
4182.5	V	-	-	-78.83	5.66	33.83	-61.43	-13.00	-48.43

Table 7-15. Antenna 3 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

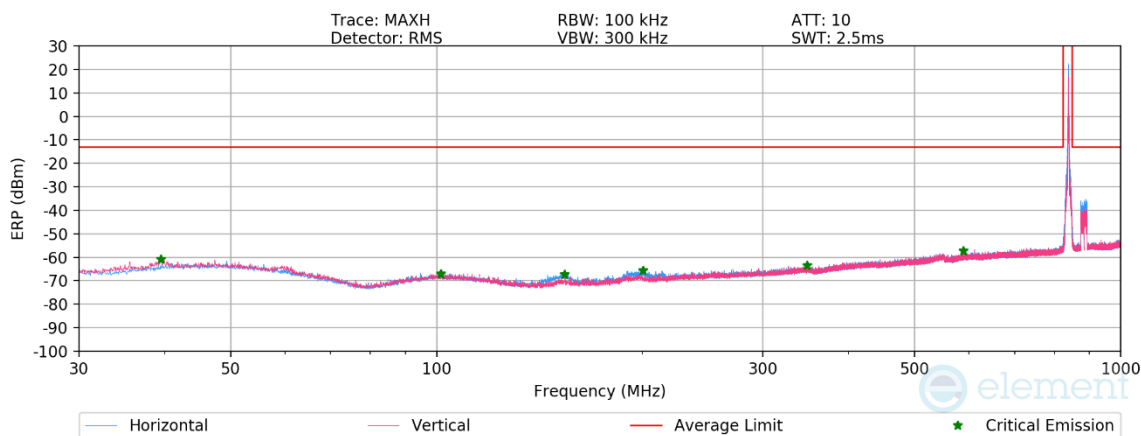
Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 25

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]
1688.0	H	304	206	-71.03	-1.72	34.25	-61.01	-13.00	-48.01
2532.0	V	-	-	-78.07	2.53	31.46	-63.79	-13.00	-50.79
3376.0	V	-	-	-79.12	4.61	32.49	-62.77	-13.00	-49.77
4220.0	V	-	-	-78.97	5.66	33.69	-61.57	-13.00	-48.57

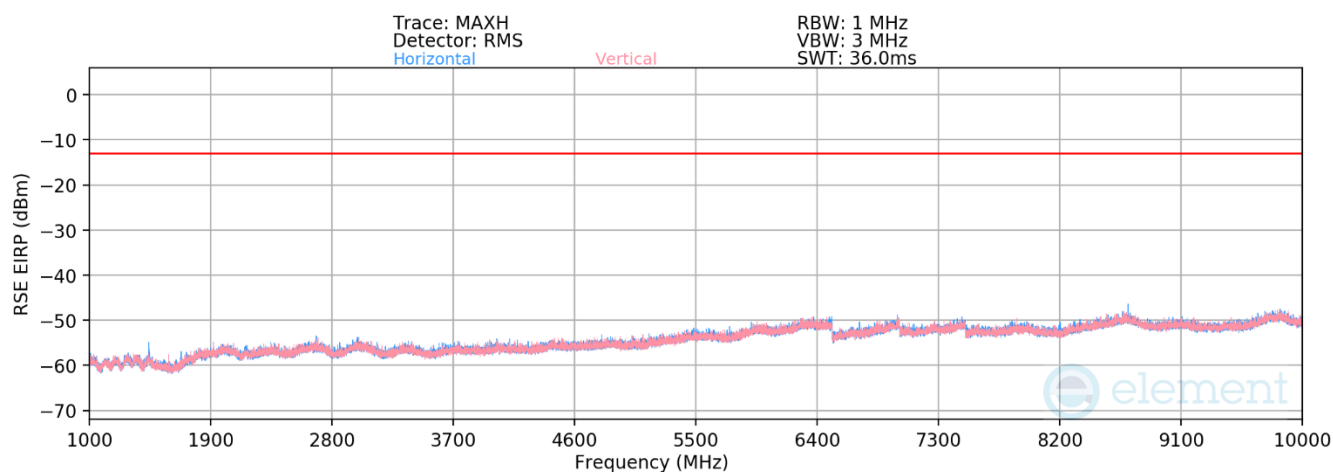
Table 7-16. Antenna 3 Radiated Spurious Data (LTE Band 26/5 – High Channel)

FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-07-R1.BCG	Test Dates: 05/09/2025 - 08/06/2025	EUT Type: Tablet Device
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ULCA LTE Band 5



Plot 7-116. Antenna 3 Radiated Spurious Plot below 1GHz (ULCA LTE Band 5)



Plot 7-117. Antenna 3 Radiated Spurious Plot above 1GHz (ULCA LTE Band 5)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-07-R1.BCG	Test Dates: 05/09/2025 - 08/06/2025	EUT Type: Tablet Device	Page 97 of 112

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PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1 / 0

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]
1658.0	H	-	-	-74.25	-4.72	28.03	-67.23	-13.00	-54.23
2487.0	V	255	12	-71.47	-0.17	35.35	-59.90	-13.00	-46.90
3316.0	V	-	-	-75.97	2.40	33.42	-61.84	-13.00	-48.84
4145.0	H	-	-	-77.19	3.43	33.24	-62.02	-13.00	-49.02
4974.0	V	-	-	-78.35	5.03	33.69	-61.57	-13.00	-48.57

Table 7-17. Antenna 3 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

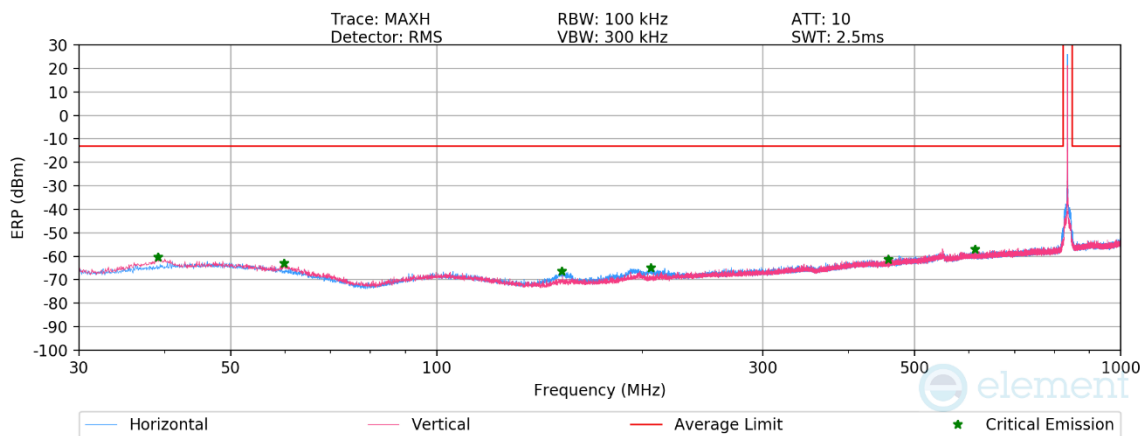
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	-	-	-74.62	-4.80	27.58	-67.67	-13.00	-54.67
2532.0	V	357	8	-71.78	-0.01	35.21	-60.05	-13.00	-47.05
3376.0	V	-	-	-76.13	2.50	33.37	-61.89	-13.00	-48.89
4220.0	H	-	-	-77.19	3.43	33.25	-62.01	-13.00	-49.01
5064.0	H	-	-	-77.82	5.18	34.35	-60.90	-13.00	-47.90

Table 7-18. Antenna 3 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

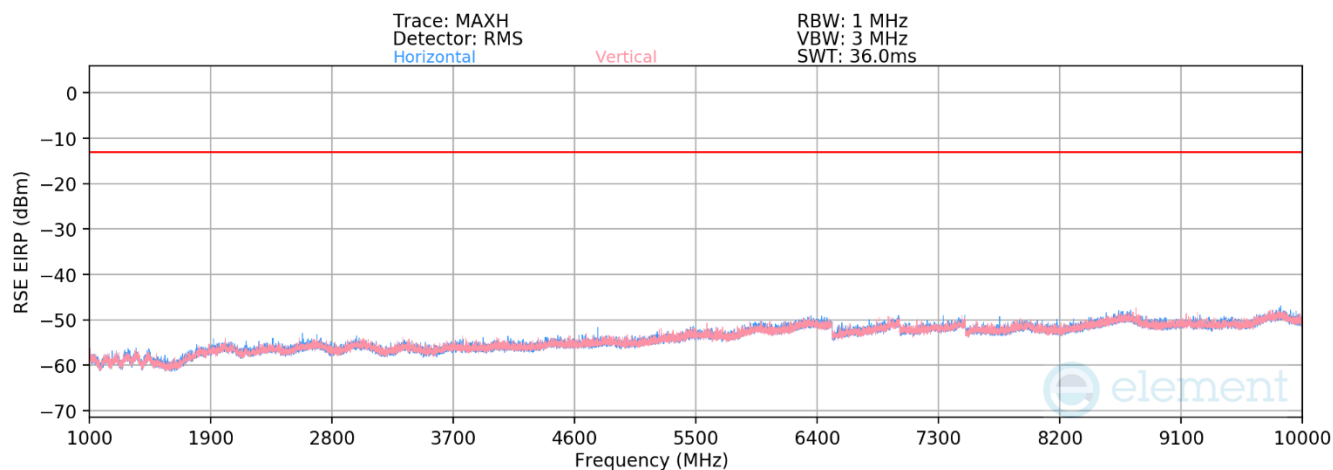
FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26/n5



Plot 7-118. Antenna 3 Radiated Spurious Plot below 1GHz (NR Band n26/n5)



Plot 7-119. Antenna 3 Radiated Spurious Plot above 1GHz (NR Band n26/n5)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	834.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	174	224	-69.49	-4.72	32.79	-62.47	-13.00	-49.47
2502.0	V	-	-	-73.67	-0.17	33.16	-62.10	-13.00	-49.10
3336.0	H	-	-	-75.76	2.40	33.64	-61.62	-13.00	-48.62
4170.0	H	-	-	-76.93	3.64	33.70	-61.55	-13.00	-48.55

Table 7-19. Antenna 3 Radiated Spurious Data (NR Band n26/n5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	246	221	-68.89	-4.80	33.31	-61.95	-13.00	-48.95
2509.5	V	-	-	-73.95	-0.17	32.88	-62.38	-13.00	-49.38
3346.0	H	-	-	-75.72	2.50	33.78	-61.48	-13.00	-48.48
4182.5	H	-	-	-77.21	3.64	33.43	-61.83	-13.00	-48.83

Table 7-20. Antenna 3 Radiated Spurious Data (NR Band n26/n5 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

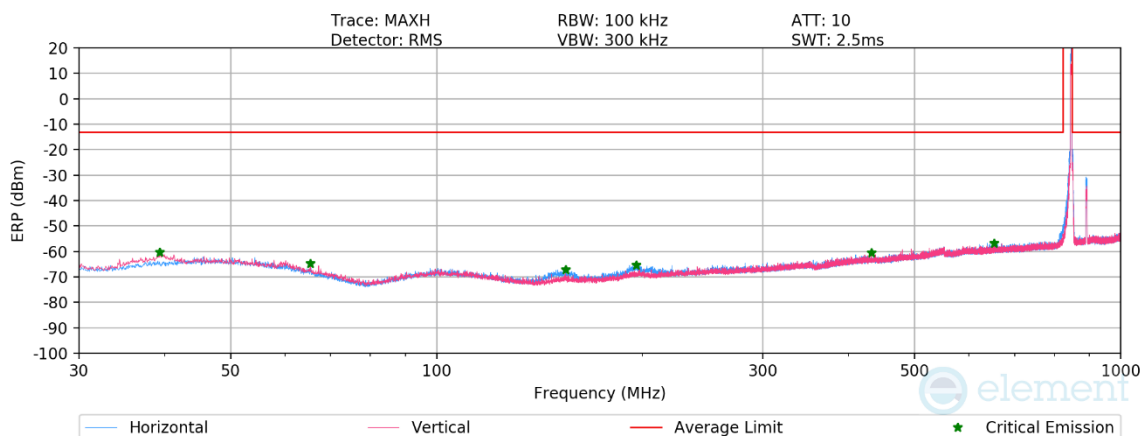
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	244	222	-68.57	-4.80	33.64	-61.62	-13.00	-48.62
2517.0	V	-	-	-74.19	0.13	32.94	-62.32	-13.00	-49.32
3356.0	H	-	-	-75.68	2.55	33.88	-61.38	-13.00	-48.38
4195.0	H	-	-	-76.94	3.37	33.43	-61.83	-13.00	-48.83

Table 7-21. Antenna 3 Radiated Spurious Data (NR Band n26/n5 – High Channel)

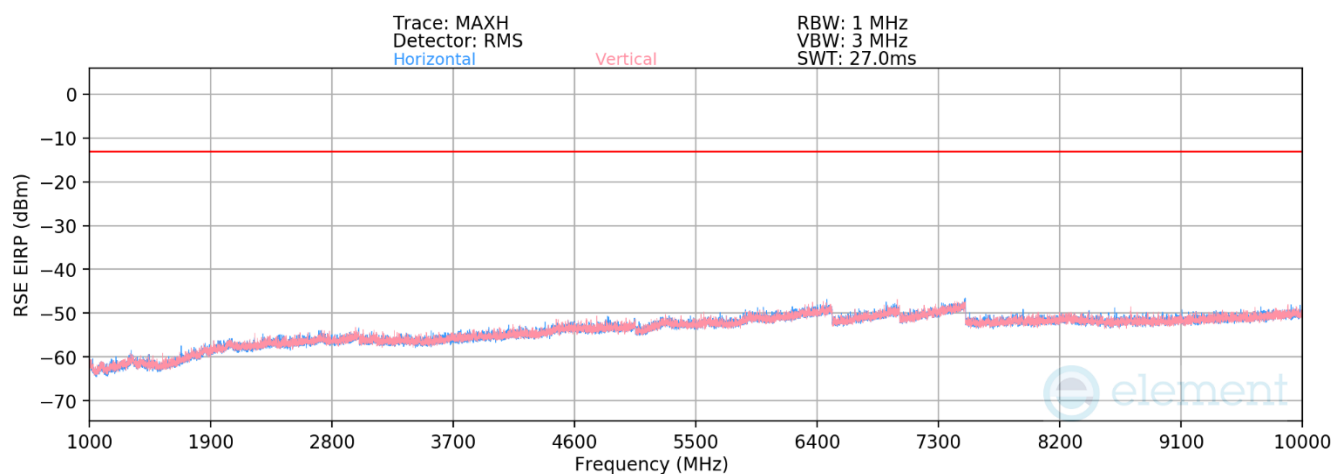
FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA Cell



Plot 7-120. Antenna 3 Radiated Spurious Plot below 1GHz (WCDMA Cell)



Plot 7-121. Antenna 3 Radiated Spurious Plot above 1GHz (WCDMA Cell)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

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]
1652.8	H	-	-	-77.92	-1.44	27.64	-67.62	-13.00	-54.62
2479.2	H	-	-	-78.24	2.40	31.17	-64.09	-13.00	-51.09
3305.6	H	-	-	-78.29	4.47	33.18	-62.08	-13.00	-49.08

Table 7-22. Antenna 3 Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

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]
1673.2	H	-	-	-77.86	-1.72	27.42	-67.84	-13.00	-54.84
2509.8	H	-	-	-77.96	2.52	31.56	-63.70	-13.00	-50.70
3346.4	H	-	-	-78.98	4.69	32.71	-62.55	-13.00	-49.55

Table 7-23. Antenna 3 Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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]
1693.2	H	-	-	-77.69	-1.72	27.59	-67.67	-13.00	-54.67
2539.8	H	-	-	-78.14	2.64	31.49	-63.76	-13.00	-50.76
3386.4	V	-	-	-78.97	4.61	32.64	-62.62	-13.00	-49.62

Table 7-24. Antenna 3 Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: BCGA3361	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.2 Antenna 1 – Radiated Spurious Emission Measurements

LTE Band 26/5

Bandwidth (MHz):	10
Frequency (MHz):	829.0
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]
1658.0	H	-	-	-77.47	-1.72	27.81	-67.45	-13.00	-54.45
2487.0	H	-	-	-78.11	2.49	31.38	-63.88	-13.00	-50.88
3316.0	V	-	-	-78.42	4.47	33.05	-62.21	-13.00	-49.21

Table 7-25. Antenna 1 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
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]
1673.0	H	246	209	-74.82	-1.65	30.53	-64.73	-13.00	-51.73
2509.5	V	-	-	-78.02	2.52	31.50	-63.76	-13.00	-50.76
3346.0	H	-	-	-79.40	5.06	32.66	-62.60	-13.00	-49.60
4182.5	H	-	-	-79.35	6.12	33.77	-61.49	-13.00	-48.49

Table 7-26. Antenna 1 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844.0
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]
1688.0	H	249	144	-72.70	-1.72	32.58	-62.68	-13.00	-49.68
2532.0	H	-	-	-78.28	2.64	31.36	-63.90	-13.00	-50.90
3376.0	V	-	-	-79.03	4.61	32.58	-62.68	-13.00	-49.68
4220.0	V	-	-	-79.53	6.13	33.60	-61.66	-13.00	-48.66

Table 7-27. Antenna 1 Radiated Spurious Data (LTE Band 26/5 – High Channel)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 5

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1 / 0

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]
1658.0	H	157	319	-65.47	-4.72	36.81	-58.45	-13.00	-45.45
2487.0	H	-	-	-74.74	-0.01	32.25	-63.01	-13.00	-50.01
3316.0	V	-	-	-76.16	2.50	33.34	-61.92	-13.00	-48.92
4145.0	V	-	-	-77.56	3.66	33.10	-62.16	-13.00	-49.16

Table 7-28. Antenna 1 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

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]
1688.0	H	159	322	-65.43	-4.80	36.78	-58.48	-13.00	-45.48
2532.0	V	-	-	-74.57	0.13	32.56	-62.70	-13.00	-49.70
3376.0	V	-	-	-76.00	2.50	33.50	-61.76	-13.00	-48.76
4220.0	H	-	-	-77.22	3.37	33.15	-62.11	-13.00	-49.11

Table 7-29. Antenna 1 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26/n5

Bandwidth (MHz):	20
Frequency (MHz):	834.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	248	218	-68.37	-4.72	33.91	-61.35	-13.00	-48.35
2502.0	V	-	-	-74.27	-0.01	32.72	-62.54	-13.00	-49.54
3336.0	H	-	-	-75.68	2.50	33.82	-61.44	-13.00	-48.44
4170.0	V	-	-	-76.89	3.64	33.75	-61.51	-13.00	-48.51

Table 7-30. Antenna 1 Radiated Spurious Data (NR Band n26/n5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	246	216	-68.12	-4.72	34.16	-61.10	-13.00	-48.10
2509.5	V	-	-	-74.31	0.13	32.82	-62.44	-13.00	-49.44
3346.0	V	-	-	-75.41	2.40	33.99	-61.27	-13.00	-48.27
4182.5	H	-	-	-76.80	3.49	33.69	-61.57	-13.00	-48.57

Table 7-31. Antenna 1 Radiated Spurious Data (NR Band n26/n5 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	238	221	-68.84	-4.72	33.43	-61.83	-13.00	-48.83
2517.0	H	-	-	-73.95	0.13	33.18	-62.08	-13.00	-49.08
3356.0	V	-	-	-75.64	2.50	33.85	-61.40	-13.00	-48.40
4195.0	H	-	-	-77.03	3.49	33.46	-61.80	-13.00	-48.80

Table 7-32. Antenna 1 Radiated Spurious Data (NR Band n26/n5 – High Channel)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA Cell

Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

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]
1652.8	H	191	108	-66.51	-1.44	39.06	-56.20	-13.00	-43.20
2479.2	H	-	-	-78.09	2.55	31.46	-63.79	-13.00	-50.79
3305.6	V	-	-	-78.32	4.47	33.15	-62.10	-13.00	-49.10
4132.0	V	-	-	-79.59	6.08	33.49	-61.77	-13.00	-48.77

Table 7-33. Antenna 1 Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

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]
1673.2	H	254	299	-62.01	-1.65	43.34	-51.91	-13.00	-38.91
2509.8	V	-	-	-77.79	2.53	31.74	-63.52	-13.00	-50.52
3346.4	H	-	-	-78.81	4.69	32.88	-62.38	-13.00	-49.38
4183.0	V	-	-	-79.11	6.12	34.01	-61.25	-13.00	-48.25

Table 7-34. Antenna 1 Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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]
1693.2	H	327	298	-64.66	-1.72	40.61	-54.64	-13.00	-41.64
2539.8	V	-	-	-77.95	2.53	31.58	-63.68	-13.00	-50.68
3386.4	H	-	-	-78.97	4.61	32.63	-62.62	-13.00	-49.62
4233.0	H	-	-	-78.83	5.71	33.88	-61.37	-13.00	-48.37

Table 7-35. Antenna 1 Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: BCGA3361		PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 Frequency Stability / Temperature Variation

§2.1055, 22.355

Test Overview and Limit

Frequency Tolerance testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. All port were tested and only the worst case data were reported. The Frequency Tolerance of the transmitter is measured by:

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

For Part 22, the Frequency Tolerance of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

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.

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Test Setup

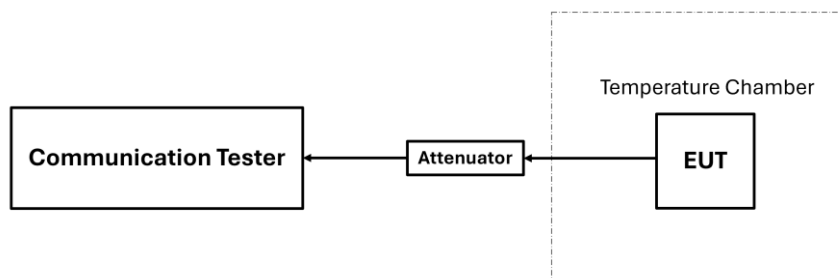


Figure 7-11. LTE Test Instrument & Measurement Setup

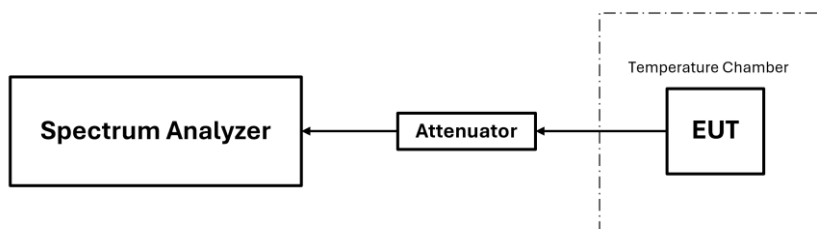


Figure 7-12. FR1 Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported.

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Frequency Tolerance / Temperature Variation

LTE Band 26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,122	87.00	0.0000104
		- 20	836,499,993	-42.00	-0.0000050
		- 10	836,500,040	5.00	0.0000006
		0	836,499,917	-118.00	-0.0000141
		+ 10	836,500,108	73.00	0.0000087
		+ 20 (Ref)	836,500,035	0.00	0.0000000
		+ 30	836,499,958	-77.00	-0.0000092
		+ 40	836,500,155	120.00	0.0000143
		+ 50	836,500,029	-6.00	-0.0000007
Battery Endpoint	3.40	+ 20	836,500,069	34.00	0.0000041

Table 7-36. LTE Band 26/5 Frequency Tolerance Data

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Frequency Tolerance / Temperature Variation

NR Band n26/n5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,499,982	-56.00	-0.0000067
		- 20	836,500,121	83.00	0.0000099
		- 10	836,500,035	-3.00	-0.0000004
		0	836,500,158	120.00	0.0000143
		+ 10	836,499,936	-102.00	-0.0000122
		+ 20 (Ref)	836,500,038	0.00	0.0000000
		+ 30	836,499,961	-77.00	-0.0000092
		+ 40	836,500,053	15.00	0.0000018
		+ 50	836,500,132	94.00	0.0000112
Battery Endpoint	3.40	+ 20	836,500,020	-18.00	-0.0000022

Table 7-37. NR Band n26/n5 Frequency Tolerance Data

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Frequency Tolerance / Temperature Variation

WCDMA Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,599,872	-91.00	-0.0000109
		- 20	836,600,029	66.00	0.0000079
		- 10	836,599,975	12.00	0.0000014
		0	836,599,925	-38.00	-0.0000045
		+ 10	836,600,068	105.00	0.0000126
		+ 20 (Ref)	836,599,963	0.00	0.0000000
		+ 30	836,600,012	49.00	0.0000059
		+ 40	836,599,843	-120.00	-0.0000143
		+ 50	836,599,990	27.00	0.0000032
Battery Endpoint	3.40	+ 20	836,599,989	26.00	0.0000031

Table 7-38. WCDMA Cell Frequency Tolerance 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: BCGA3361** complies with all the requirements of Part 22 of the FCC rules.

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