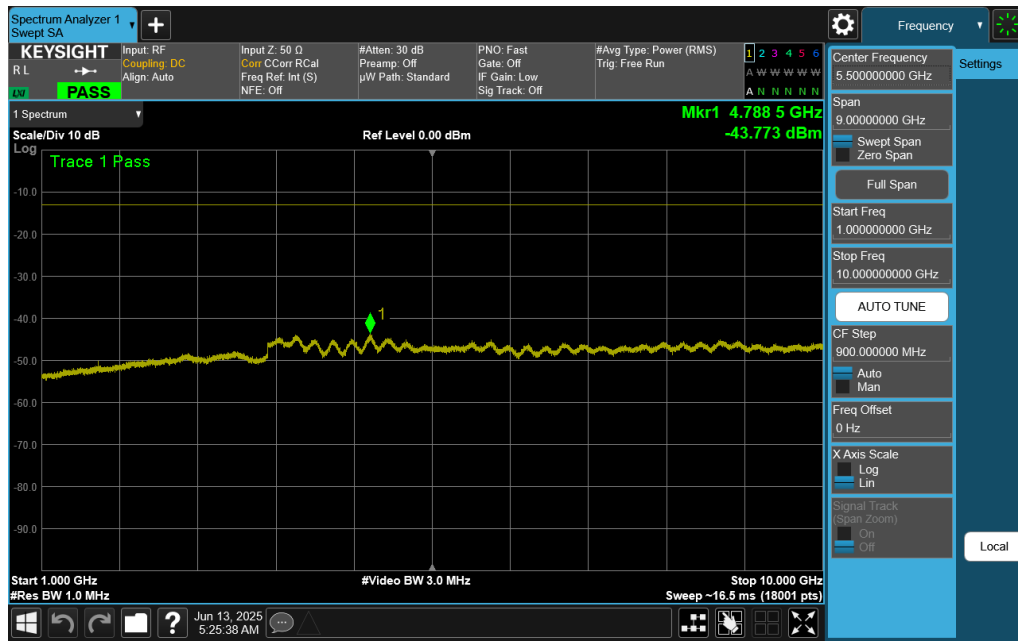
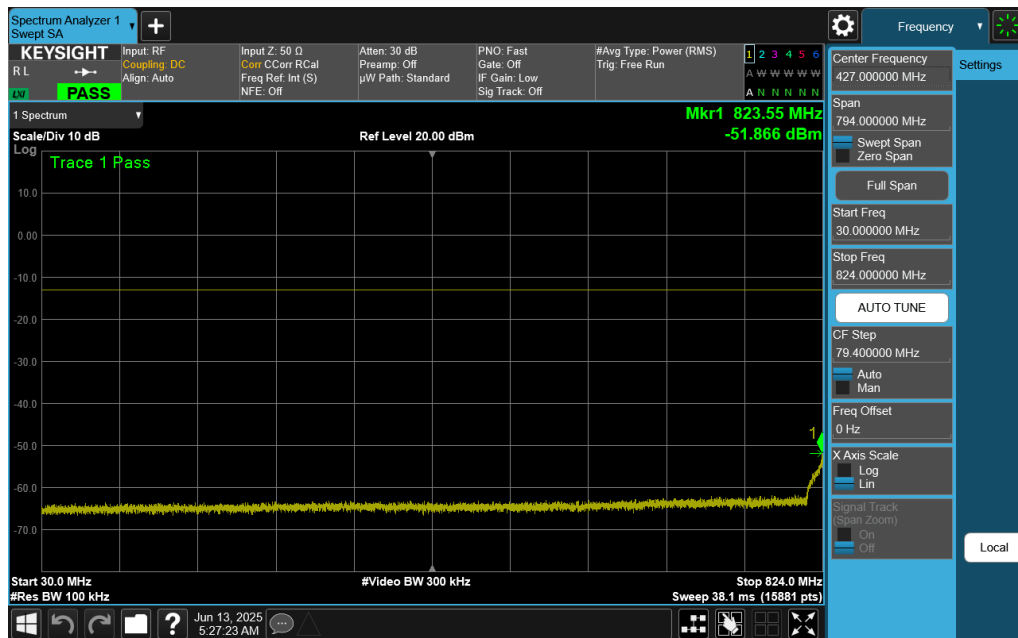




Plot 7-71. Conducted Spurious Plot (WCDMA Ch. 4132)

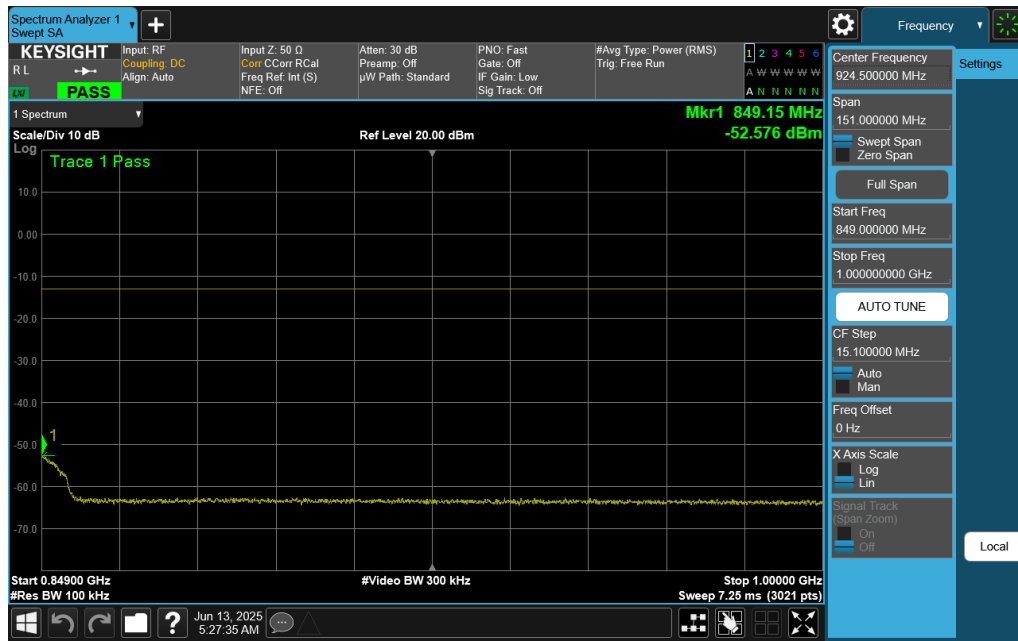


Plot 7-72. Conducted Spurious Plot (WCDMA Ch. 4183)

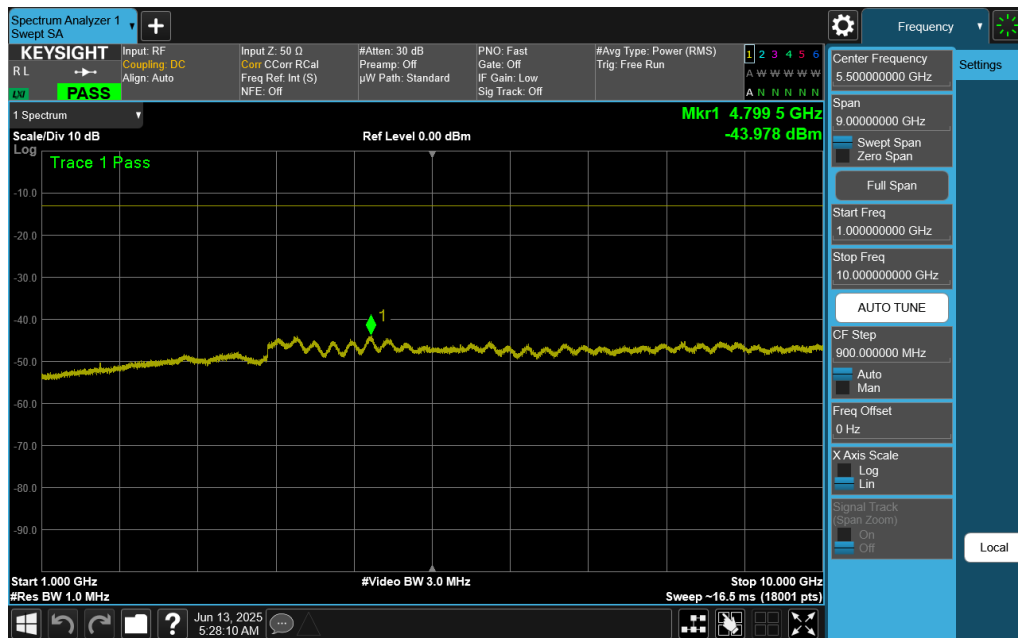
FCC ID: BCGA3358	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-73. Conducted Spurious Plot (WCDMA Ch. 4183)

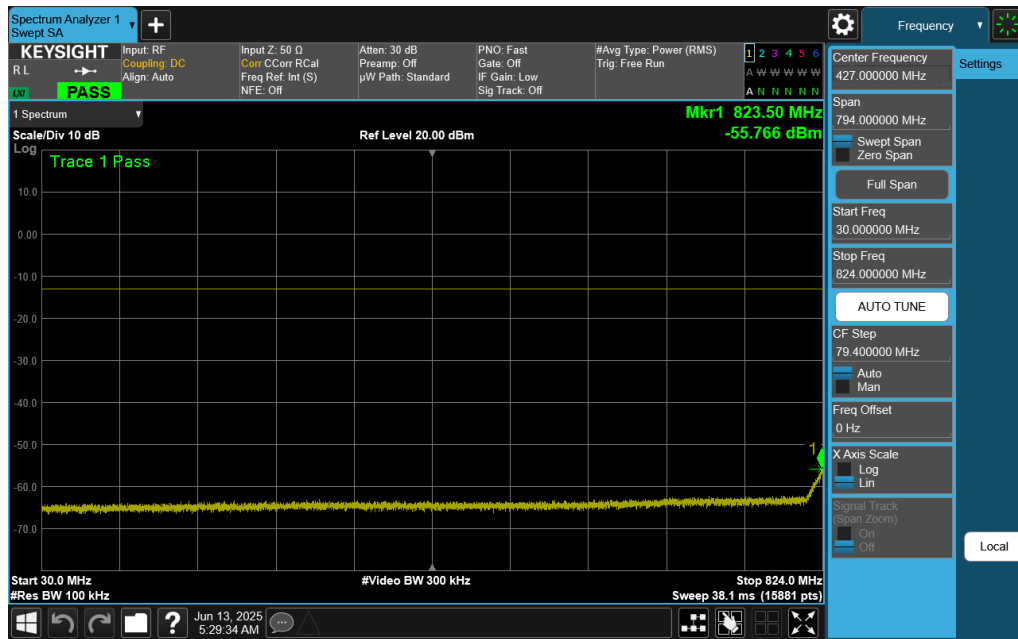


Plot 7-74. Conducted Spurious Plot (WCDMA Ch. 4183)

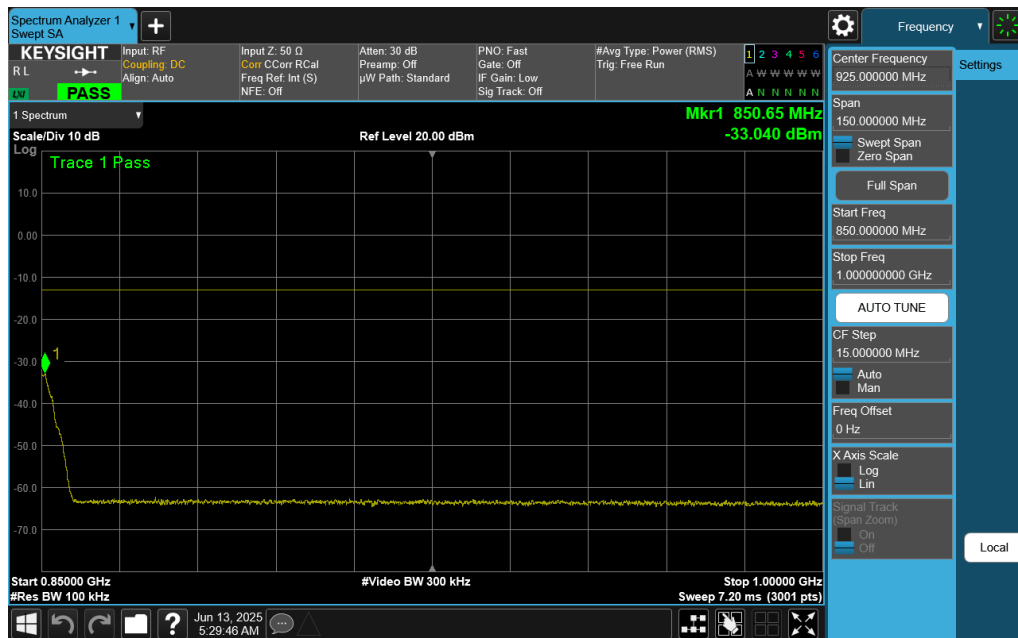
FCC ID: BCGA3358	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-75. Conducted Spurious Plot (WCDMA Ch. 4233)

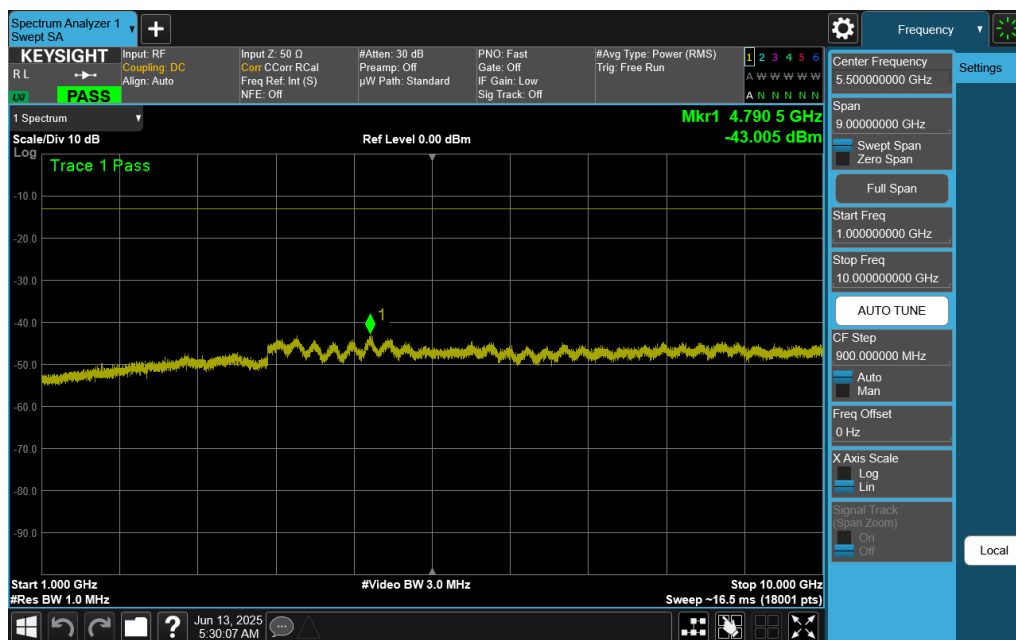


Plot 7-76. Conducted Spurious Plot (WCDMA Ch. 4233)

FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-77. Conducted Spurious Plot (WCDMA Ch. 4233)

FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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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. RBW $\geq$ 1% of the emission bandwidth
4. VBW $\geq$ 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq$ 2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

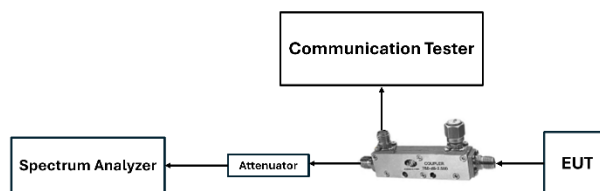


Figure 7-5. LTE Test Instrument & Measurement Setup

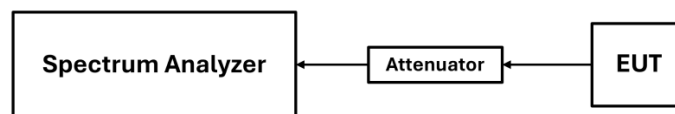


Figure 7-6. FR1 Test Instrument & Measurement Setup

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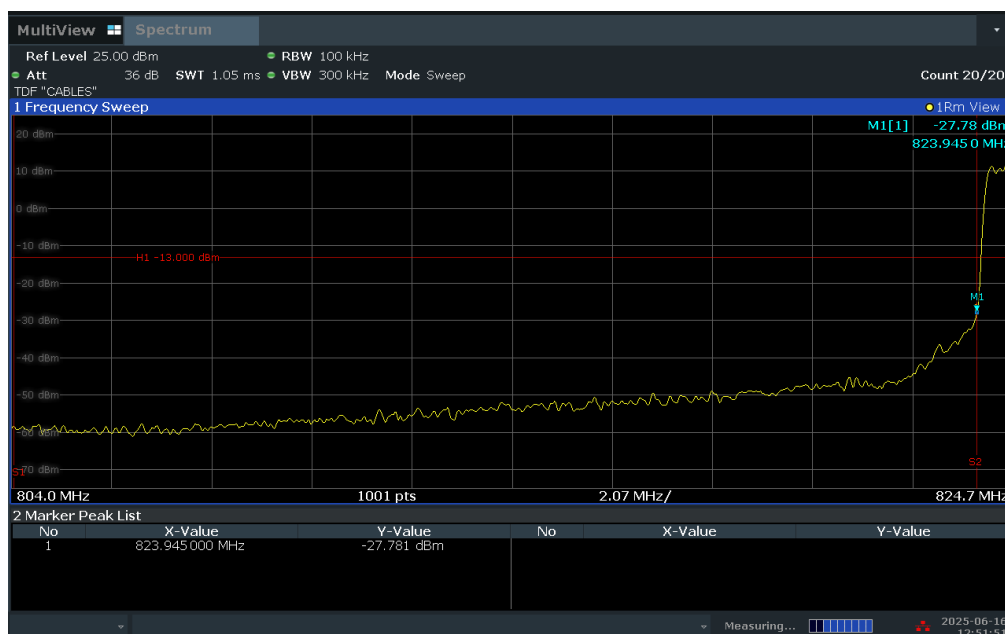
Test Notes

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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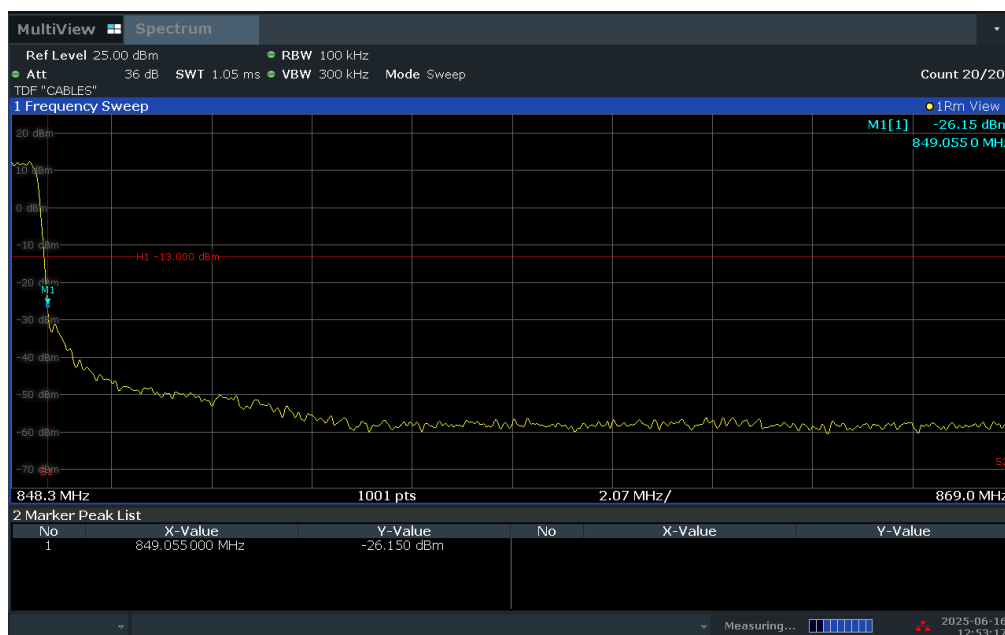
V2.2 08/24/2023

LTE Band 26



12:51:52 PM 06/16/2025

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



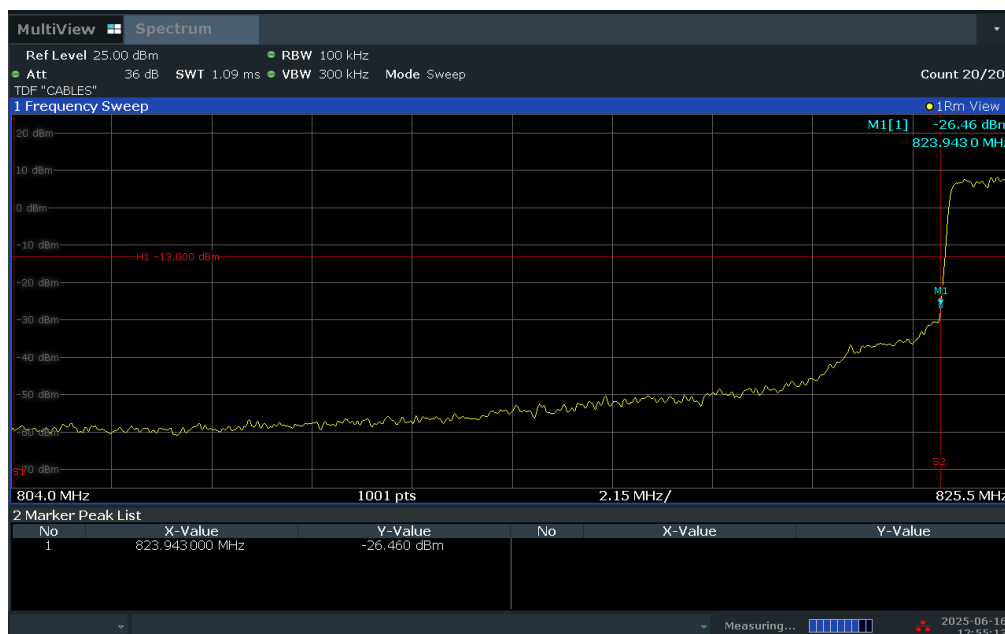
12:53:18 PM 06/16/2025

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

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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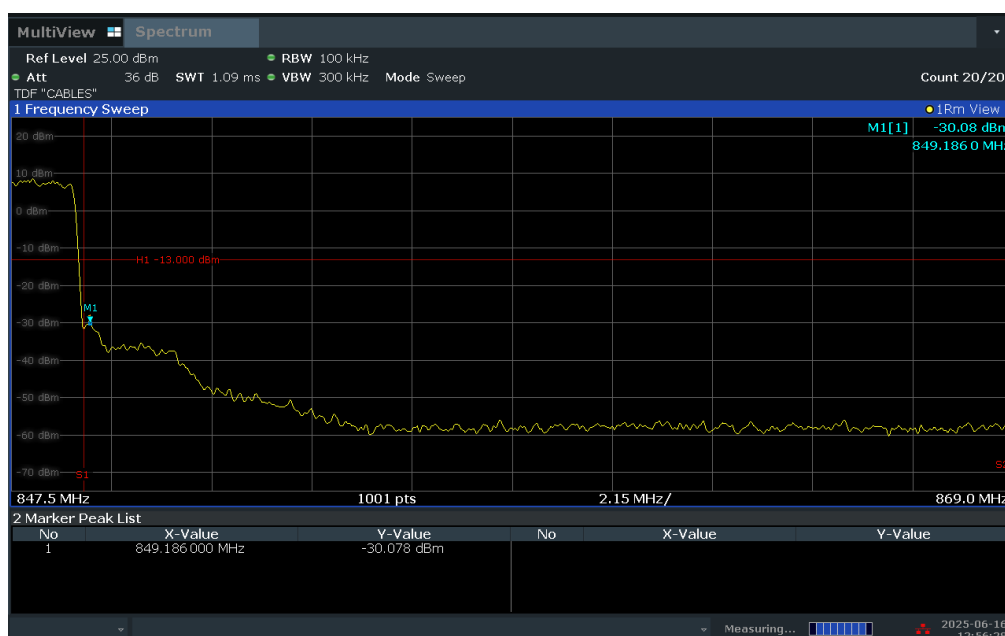
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12:55:13 PM 06/16/2025

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



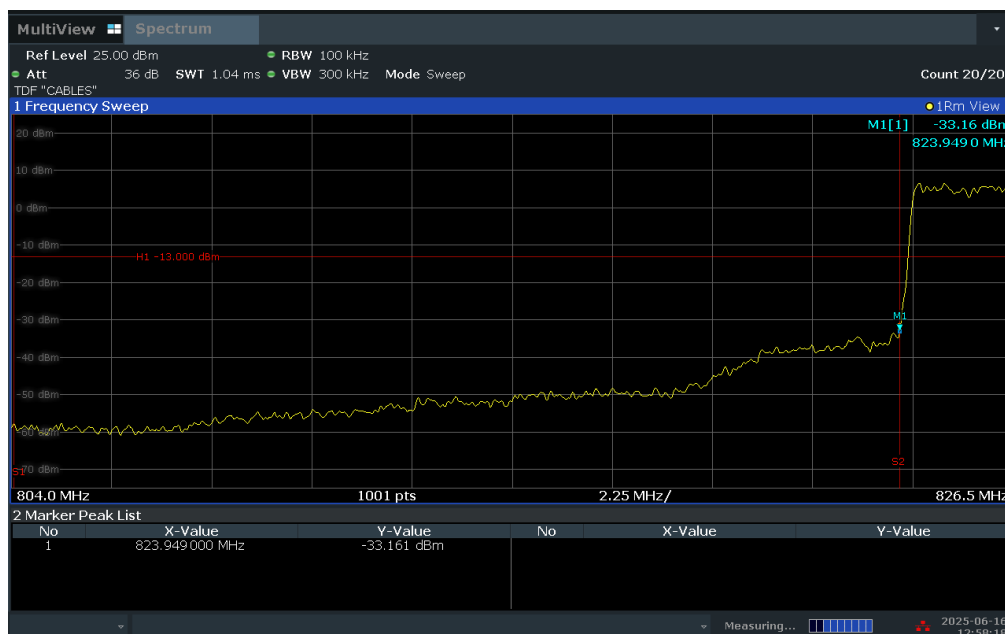
12:56:29 PM 06/16/2025

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

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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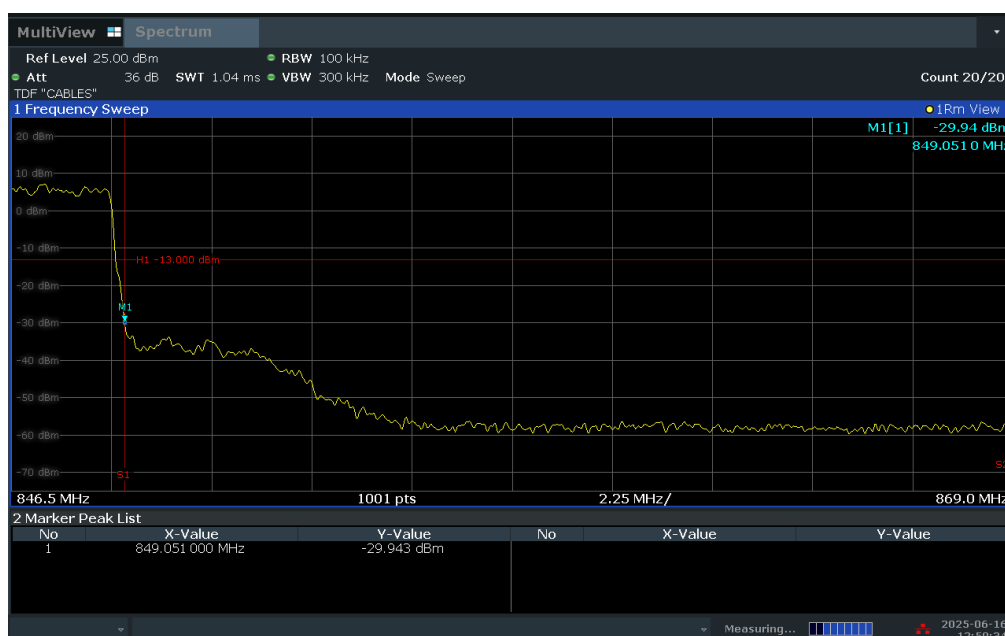
V2.2 08/24/2023

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12:58:19 PM 06/16/2025

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



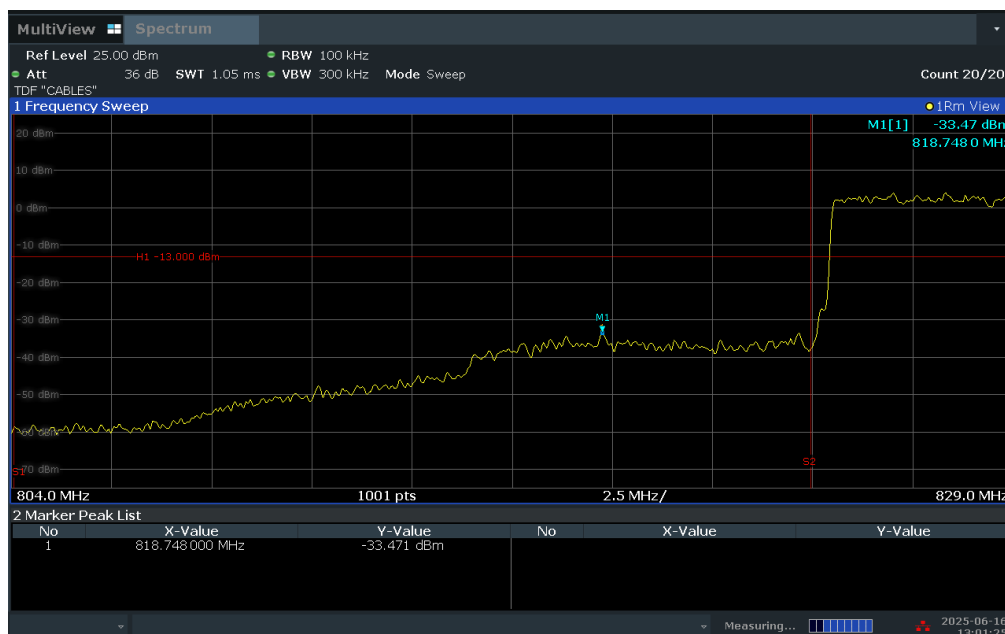
12:59:35 PM 06/16/2025

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

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-07.BCG	Test Dates: 05/09/2025 - 06/20/2025	EUT Type: Tablet Device	Page 62 of 112

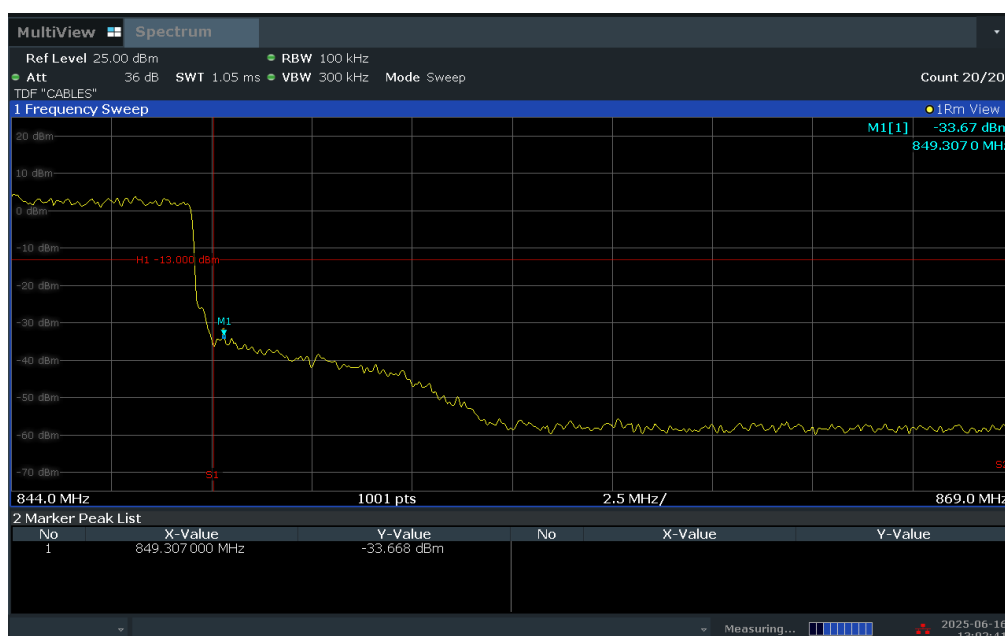
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01:01:26 PM 06/16/2025

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



01:02:42 PM 06/16/2025

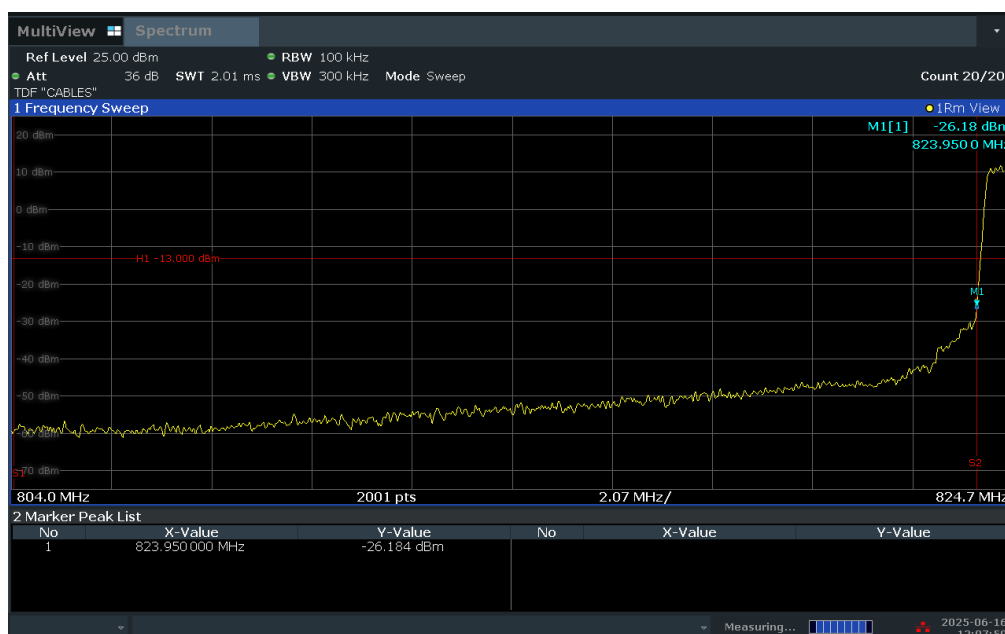
Plot 7-85. Upper BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-07.BCG	Test Dates: 05/09/2025 - 06/20/2025	EUT Type: Tablet Device	Page 63 of 112

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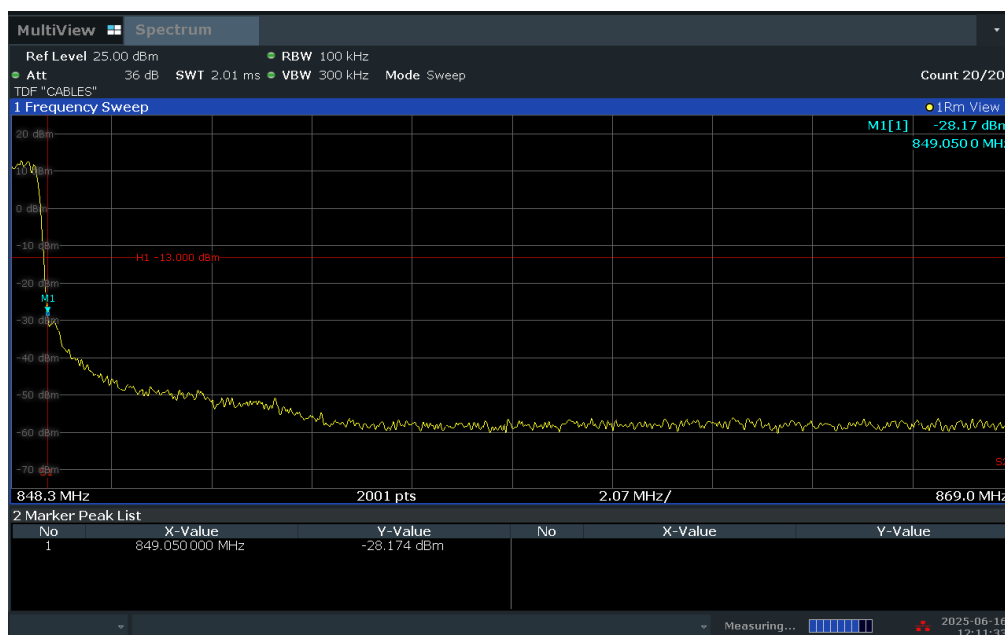
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LTE Band 5



12:07:51 PM 06/16/2025

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



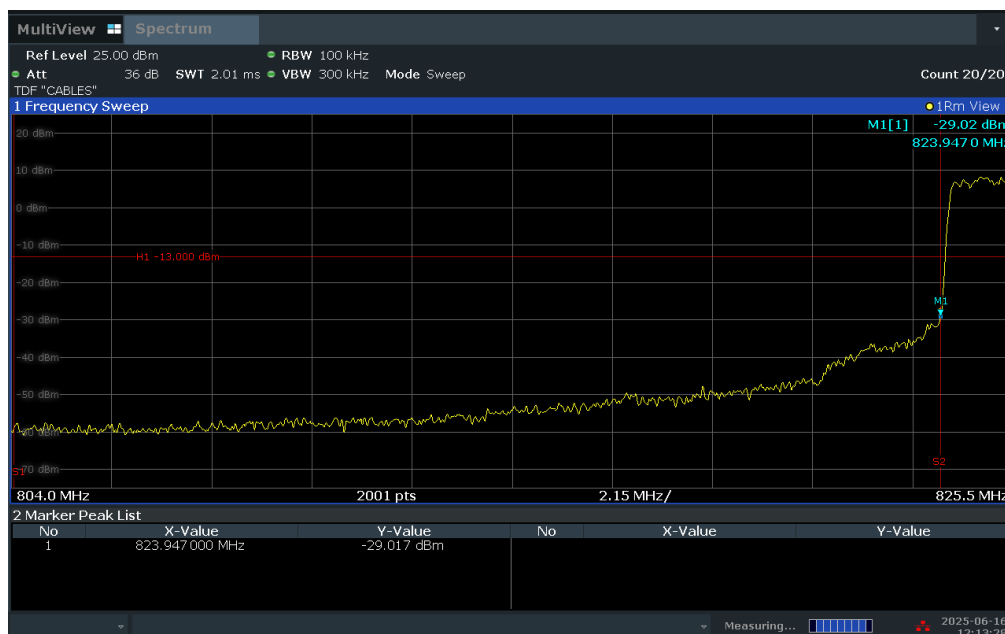
12:11:33 PM 06/16/2025

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

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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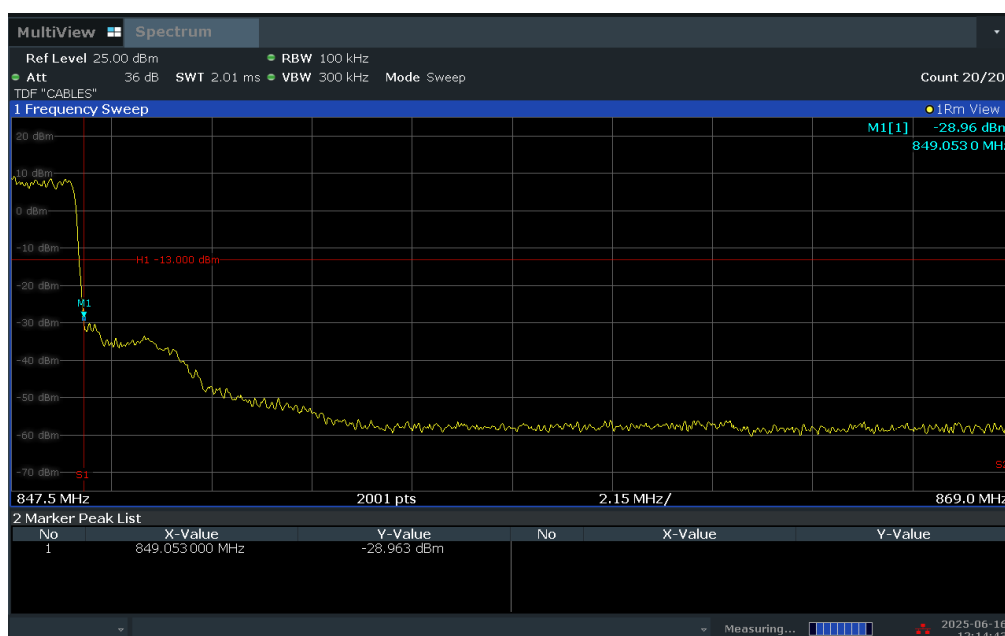
V2.2 08/24/2023

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12:13:28 PM 06/16/2025

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



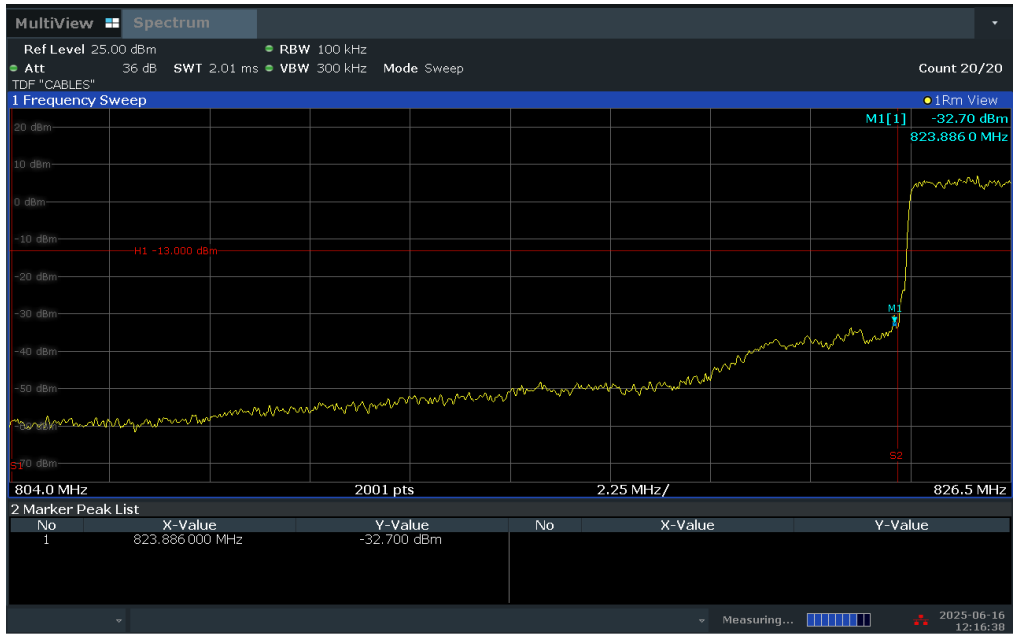
12:14:43 PM 06/16/2025

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

FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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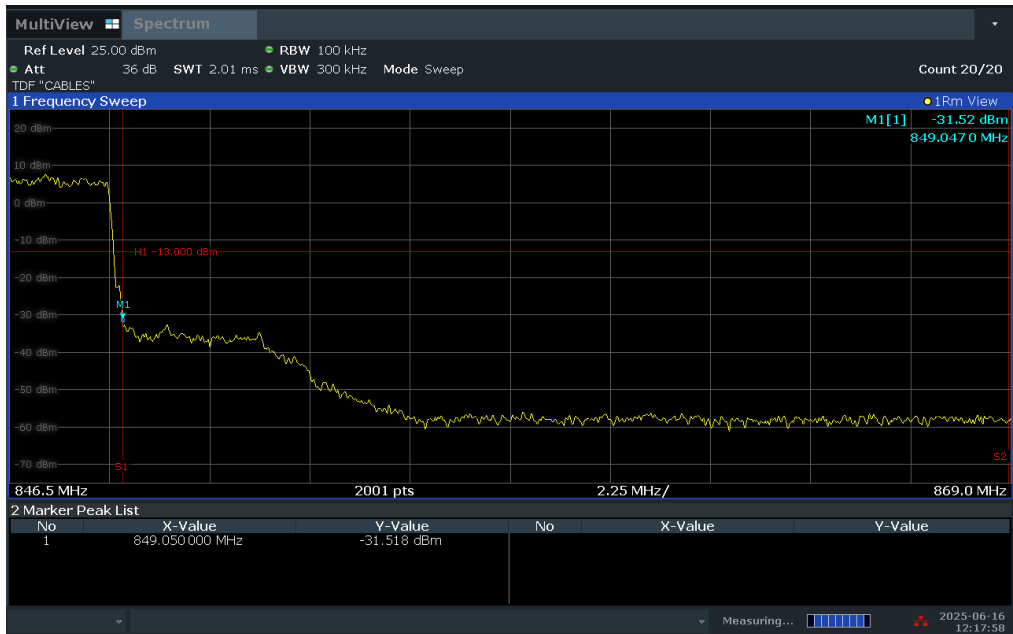
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12:16:38 PM 06/16/2025

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



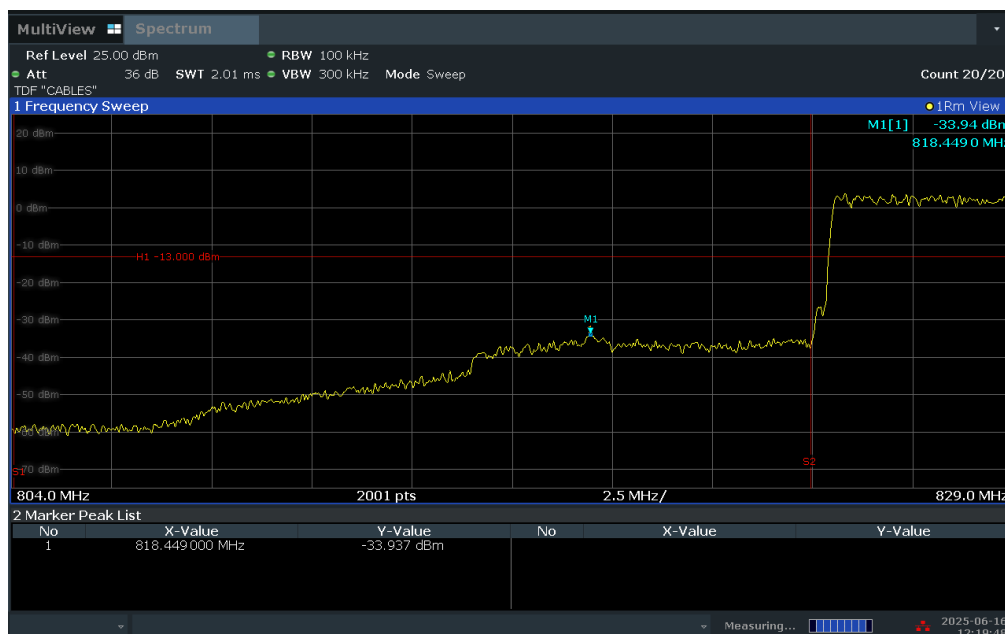
12:17:58 PM 06/16/2025

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

FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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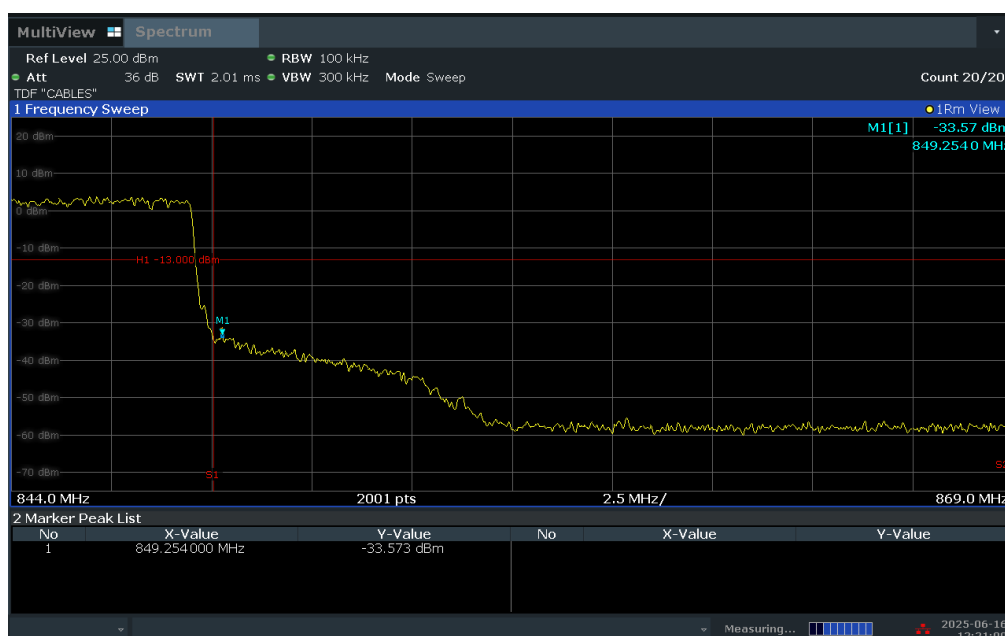
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12:19:49 PM 06/16/2025

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



12:21:10 PM 06/16/2025

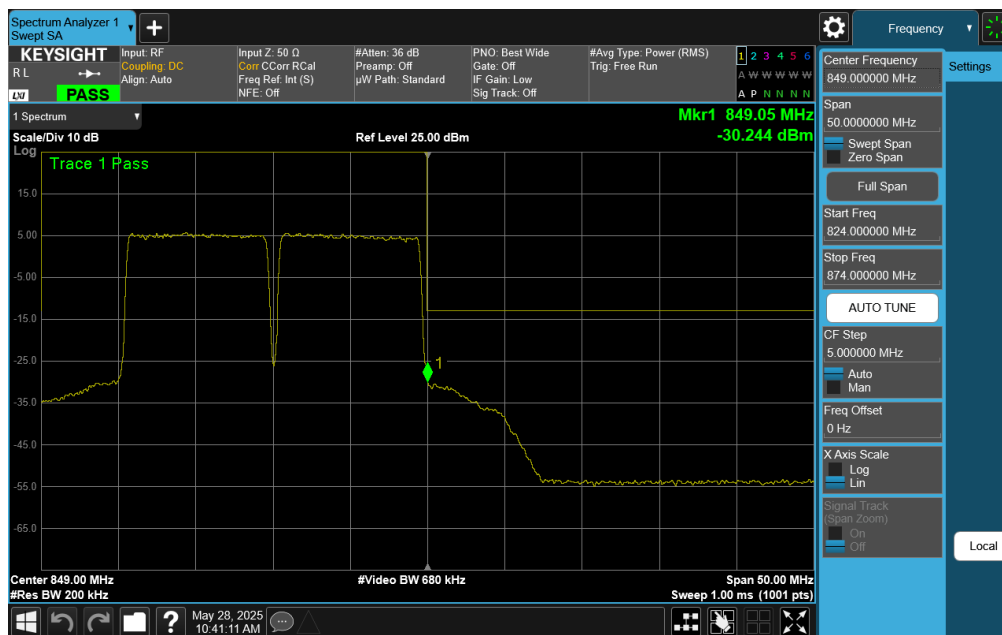
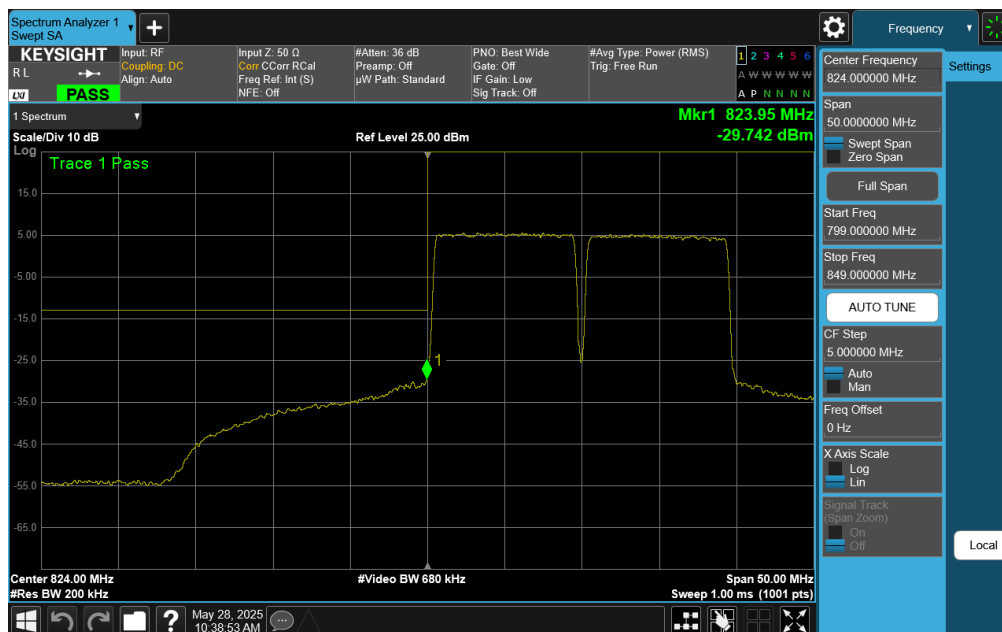
Plot 7-93. Upper BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA - LTE Band 5

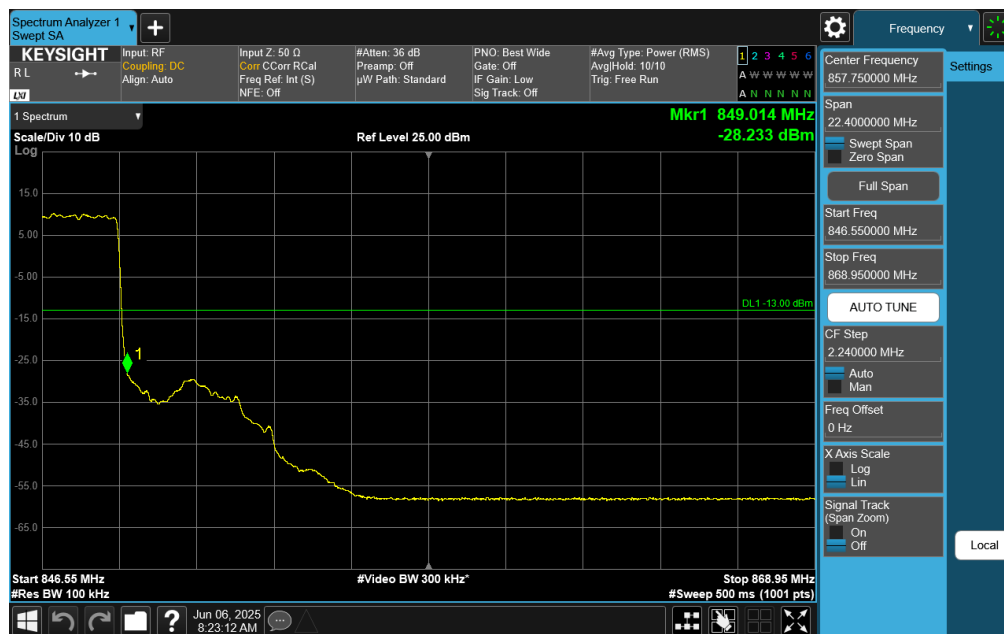
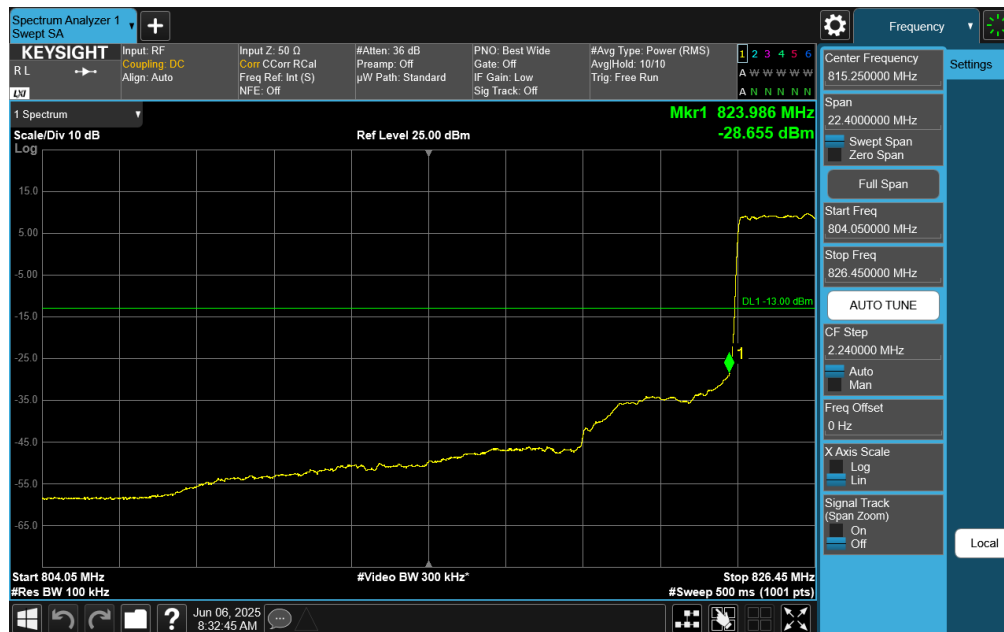


FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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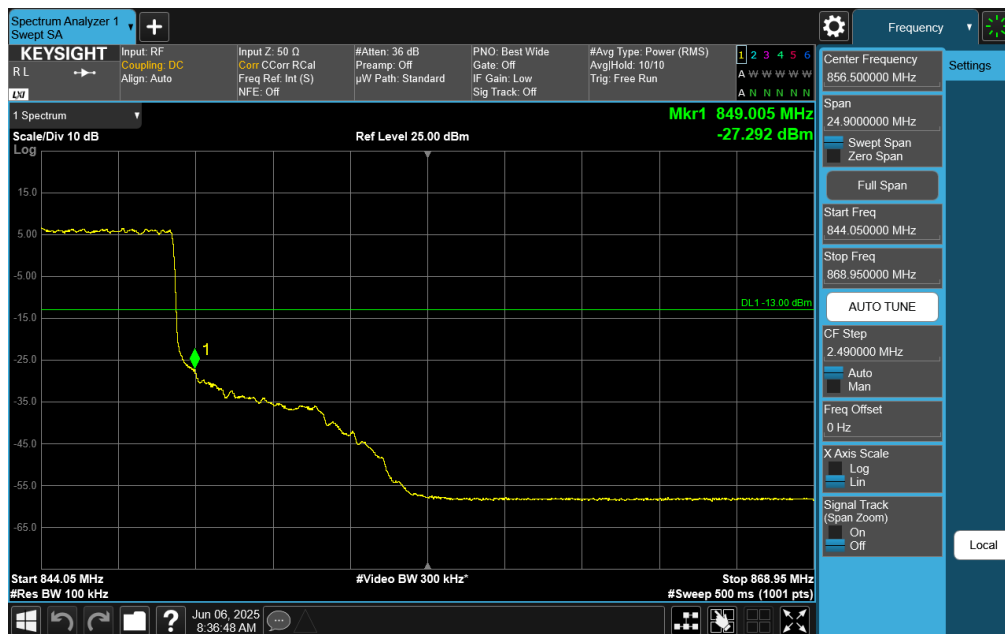
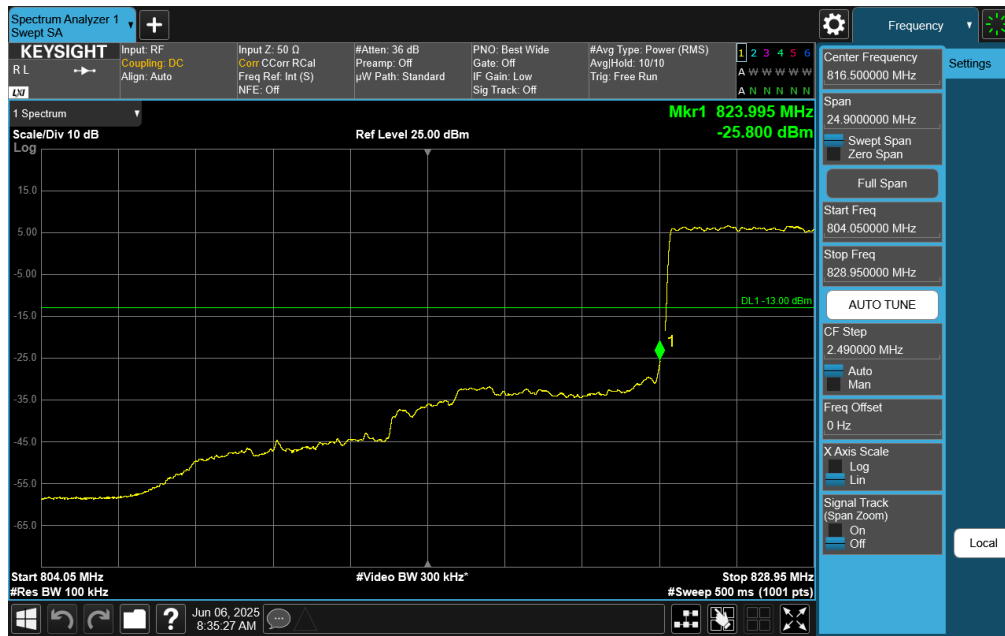
NR Band n26



FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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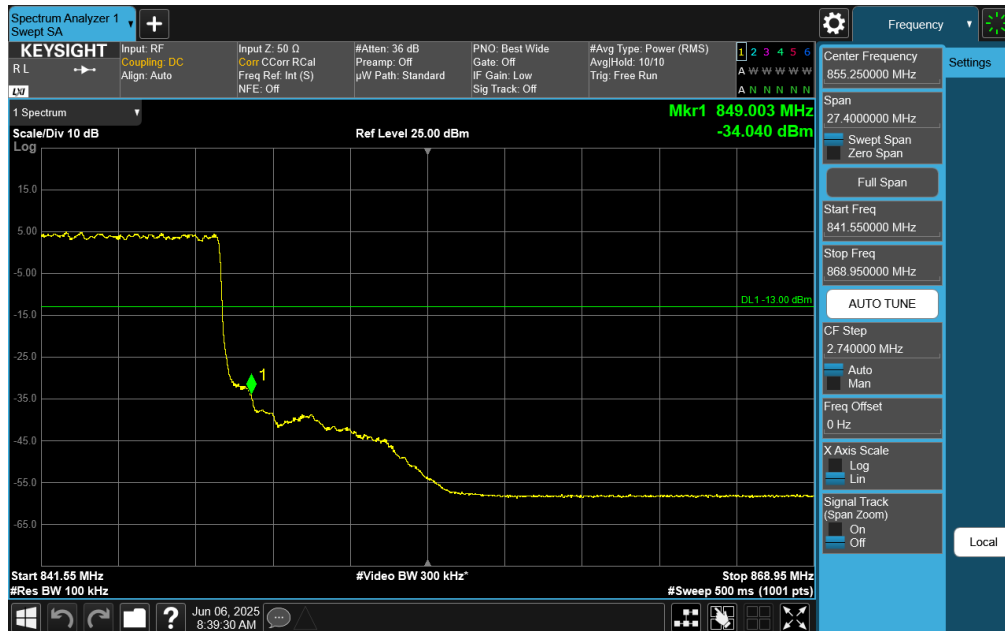
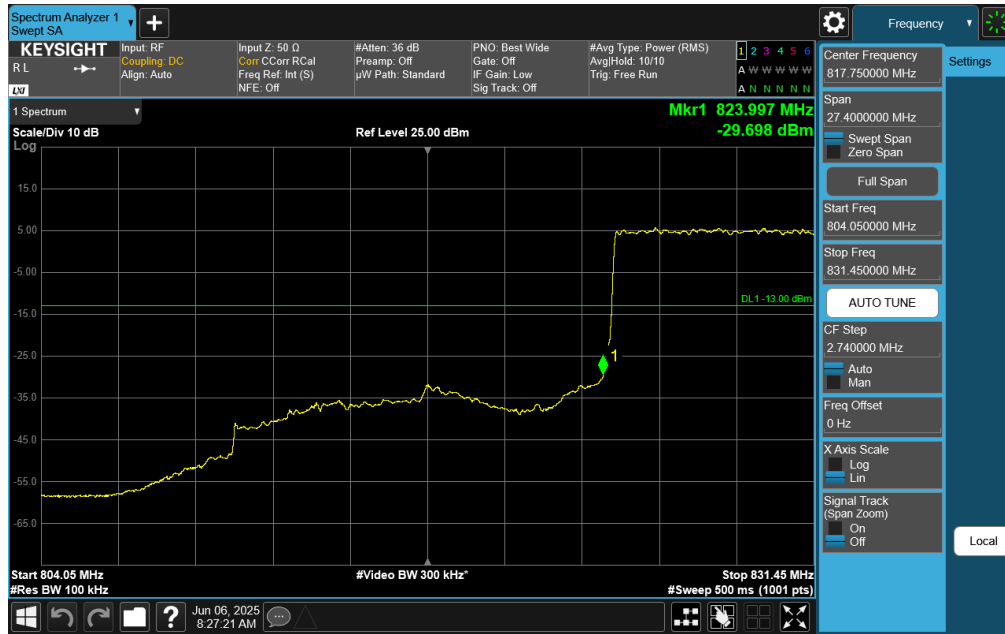
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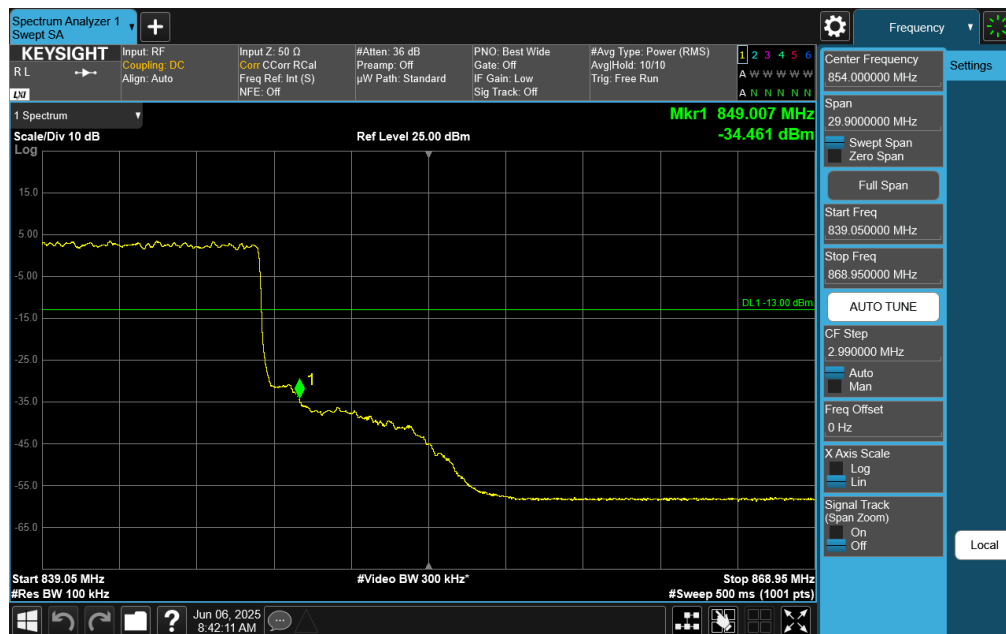
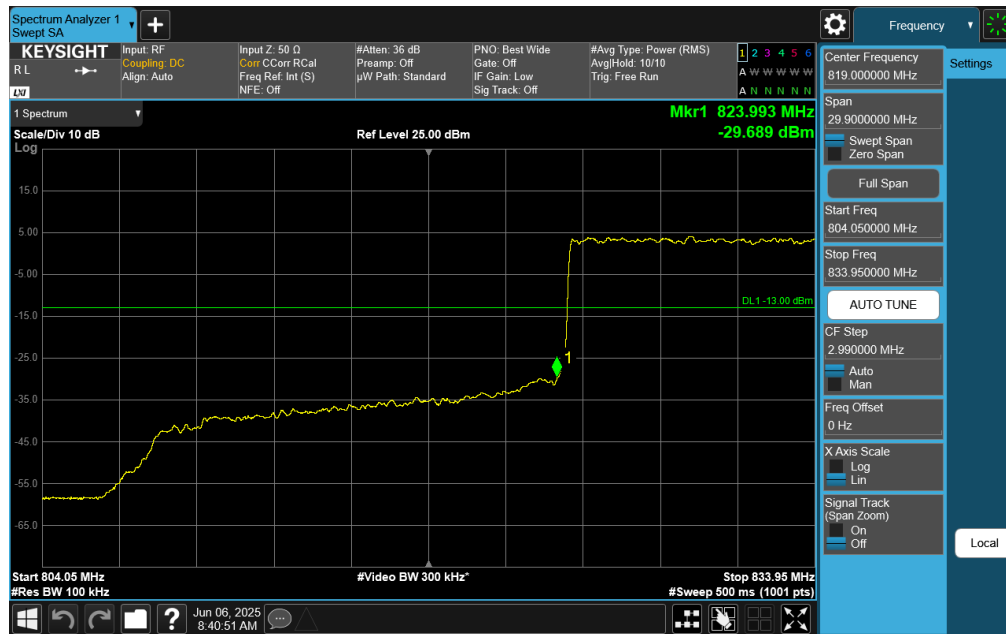
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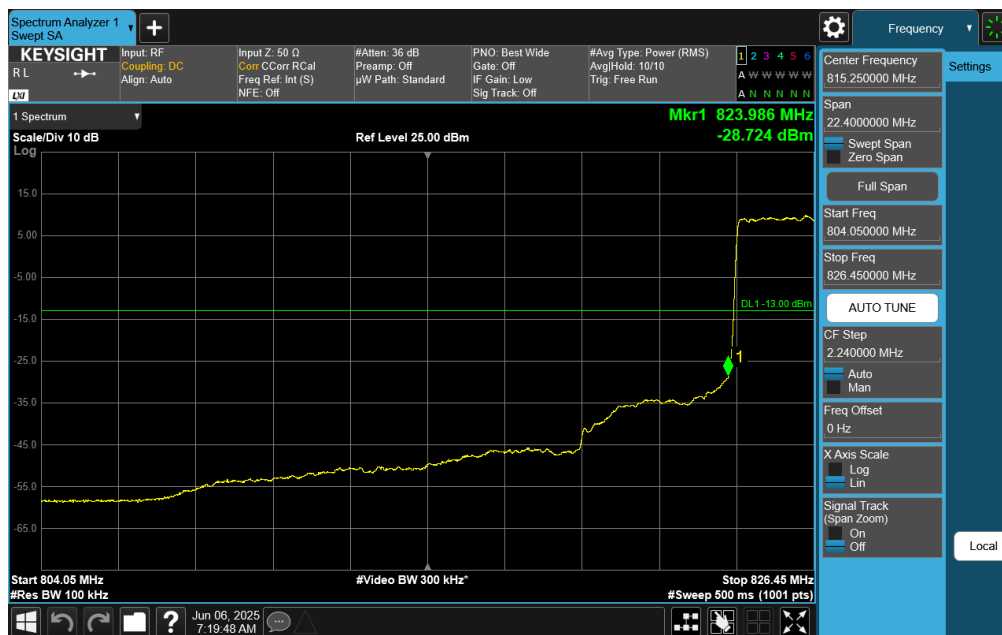


FCC ID: BCGA3358	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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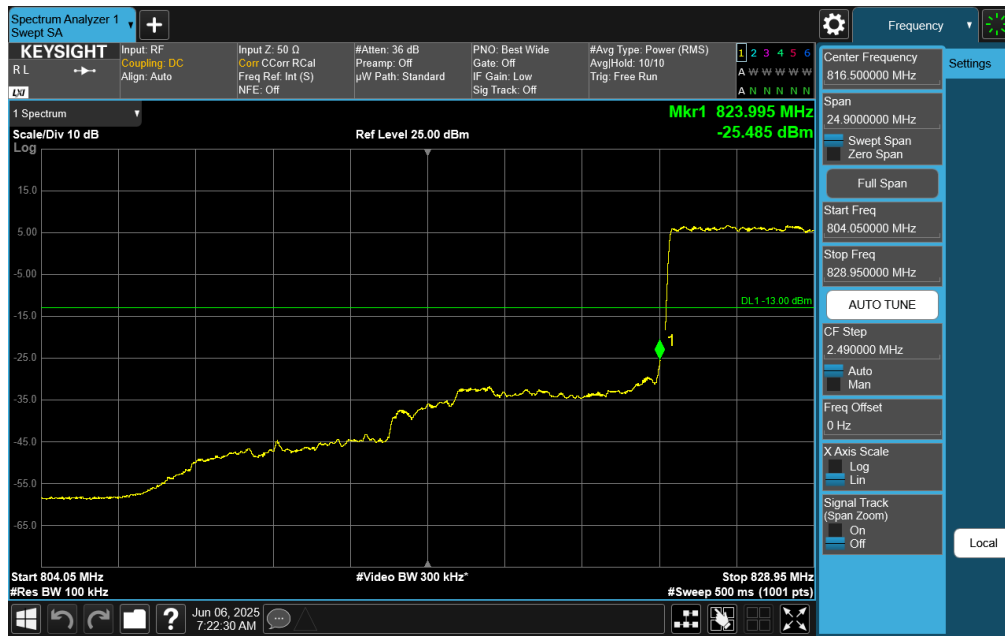
NR Band n5



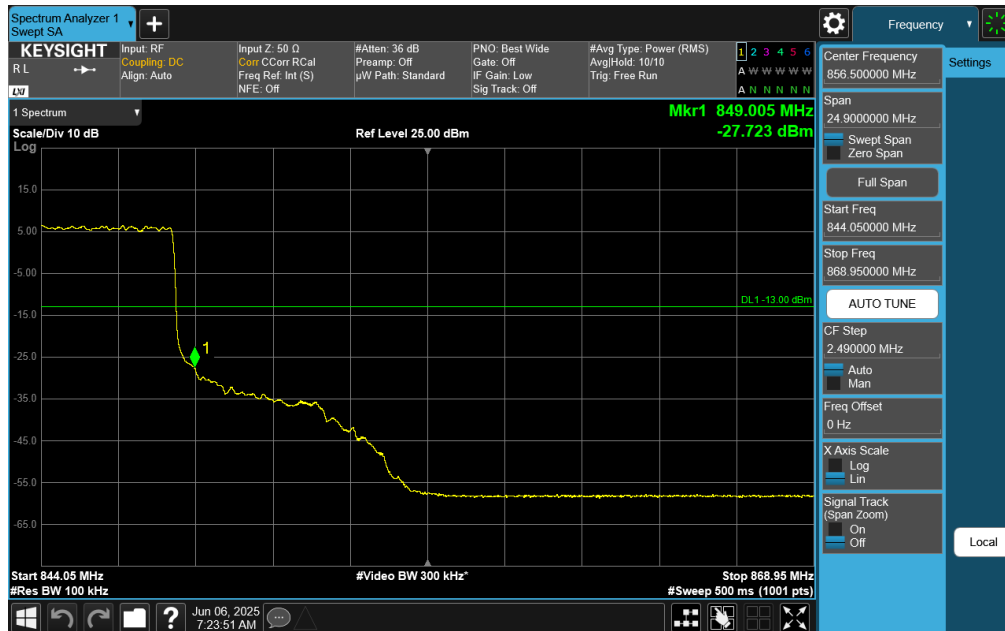
FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-106. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz - Full RB)

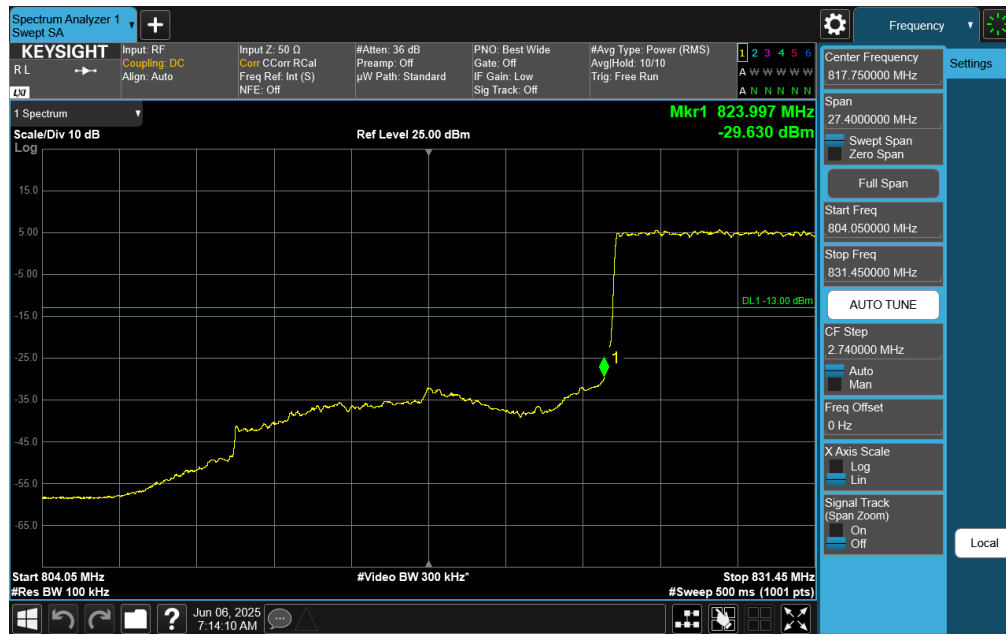


Plot 7-107. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz - Full RB)

FCC ID: BCGA3358	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)

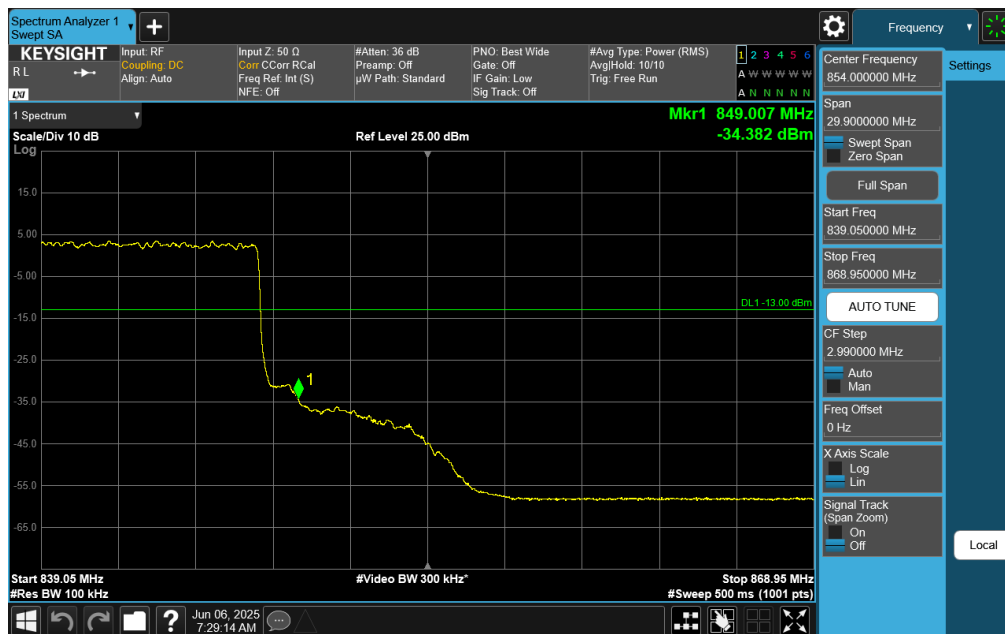
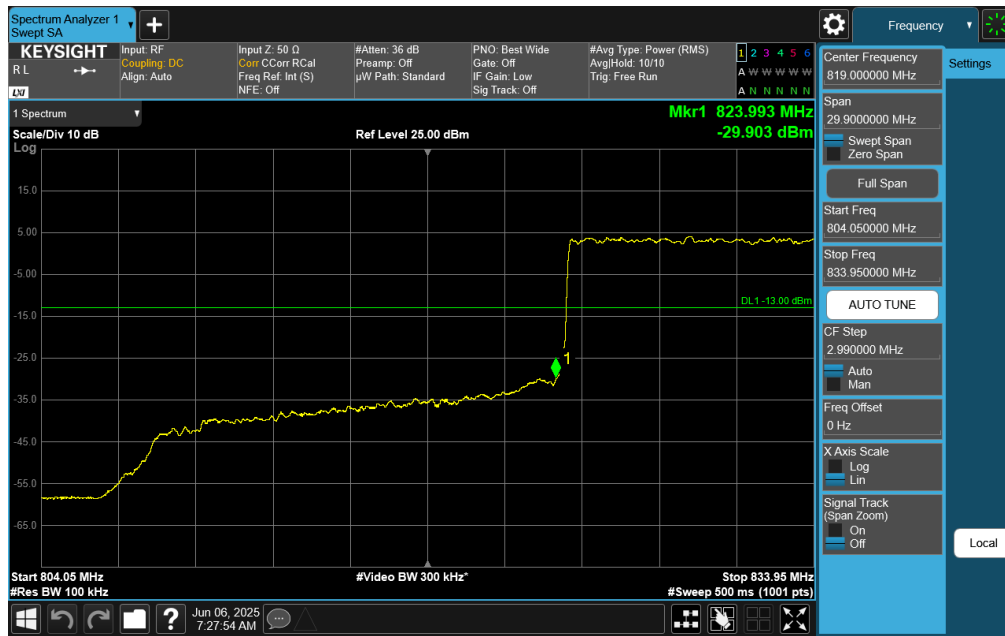


Plot 7-109. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 15.0MHz - Full RB)

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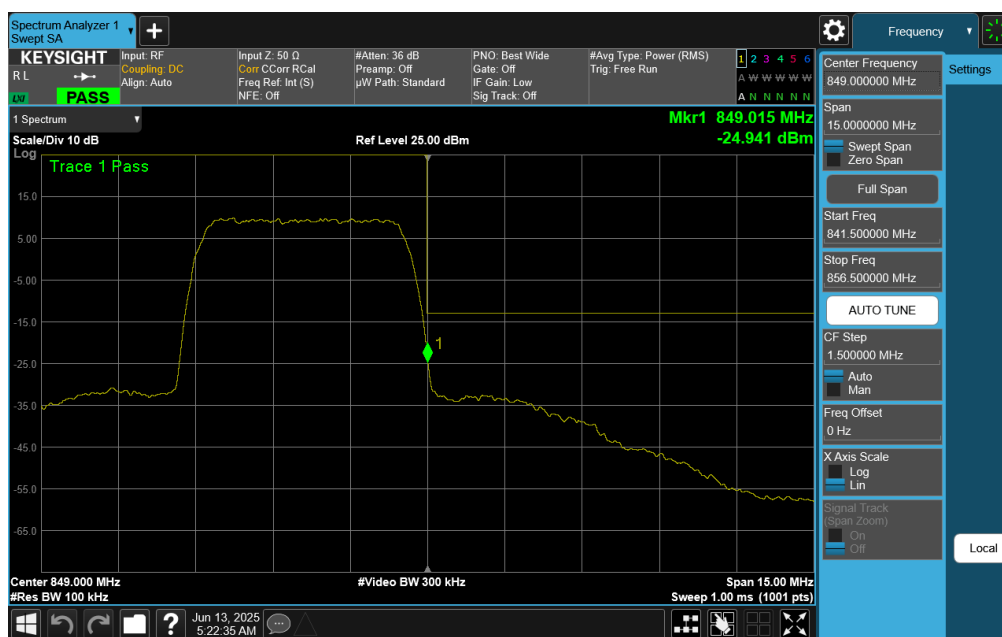
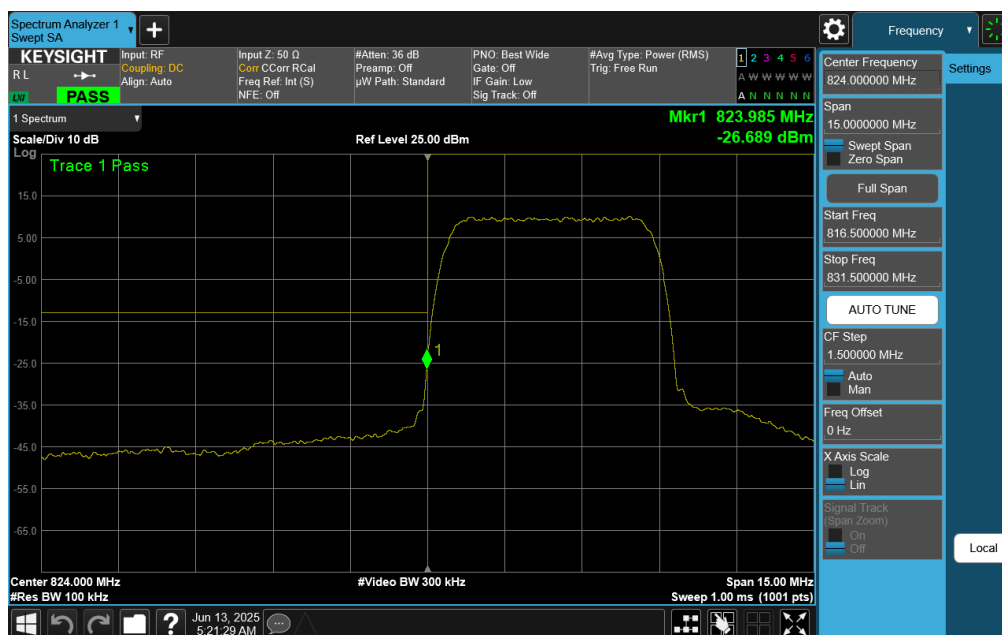


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WCDMA Cell



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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.

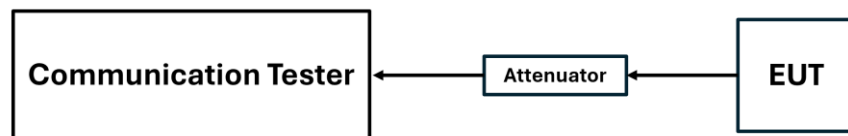


Figure 7-7. LTE Test Instrument & Measurement Setup

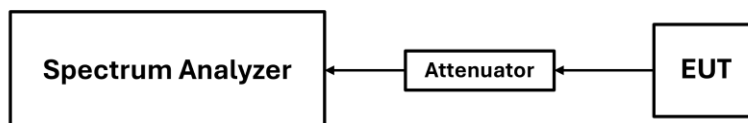


Figure 7-8. FR1 Test Instrument & Measurement Setup

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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. 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.
6. 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.
7. The Ant. Gains (GT) are listed in dBi.

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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	-1.50	1 / 5	25.23	21.58	0.144	38.45	-16.87
		836.5	-1.50	1 / 5	25.21	21.56	0.143	38.45	-16.89
		848.3	-1.50	1 / 3	25.25	21.60	0.145	38.45	-16.85
	16-QAM	824.7	-1.50	1 / 5	24.26	20.61	0.115	38.45	-17.84
	64-QAM	836.5	-1.50	1 / 5	23.24	19.59	0.091	38.45	-18.86
	256-QAM	824.7	-1.50	6 / 0	20.22	16.57	0.045	38.45	-21.88
3 MHz	QPSK	825.5	-1.50	1 / 14	25.23	21.58	0.144	38.45	-16.87
		836.5	-1.50	1 / 14	25.11	21.46	0.140	38.45	-16.99
		847.5	-1.50	1 / 0	25.16	21.51	0.142	38.45	-16.94
	16-QAM	847.5	-1.50	1 / 7	24.33	20.68	0.117	38.45	-17.77
	64-QAM	836.5	-1.50	1 / 7	23.30	19.65	0.092	38.45	-18.80
	256-QAM	847.5	-1.50	15 / 0	20.44	16.79	0.048	38.45	-21.66
5 MHz	QPSK	826.5	-1.50	1 / 12	25.27	21.62	0.145	38.45	-16.83
		836.5	-1.50	1 / 12	25.19	21.54	0.143	38.45	-16.91
		846.5	-1.50	1 / 24	25.22	21.57	0.144	38.45	-16.88
	16-QAM	826.5	-1.50	1 / 12	24.20	20.55	0.114	38.45	-17.90
	64-QAM	826.5	-1.50	1 / 12	23.28	19.63	0.092	38.45	-18.82
	256-QAM	846.5	-1.50	25 / 0	20.29	16.64	0.046	38.45	-21.81
10 MHz	QPSK	829.0	-1.50	1 / 0	25.16	21.51	0.142	38.45	-16.94
		836.5	-1.50	1 / 49	25.27	21.62	0.145	38.45	-16.83
		844.0	-1.50	1 / 49	25.17	21.52	0.142	38.45	-16.93
	16-QAM	829.0	-1.50	1 / 25	24.22	20.57	0.114	38.45	-17.88
	64-QAM	829.0	-1.50	1 / 25	23.18	19.53	0.090	38.45	-18.92
	256-QAM	829.0	-1.50	50 / 0	20.36	16.71	0.047	38.45	-21.74

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

FCC ID: BCGA3358		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	-1.50	1 / 3	25.22	21.57	0.144	38.45	-16.88
		836.5	-1.50	1 / 3	25.29	21.64	0.146	38.45	-16.81
		844.0	-1.50	1 / 3	25.24	21.59	0.144	38.45	-16.86
	16-QAM	829.0	-1.50	1 / 3	24.38	20.73	0.118	38.45	-17.72
	64-QAM	829.0	-1.50	1 / 3	23.41	19.76	0.095	38.45	-18.69
	256-QAM	829.0	-1.50	6 / 0	20.51	16.86	0.049	38.45	-21.59
3 MHz	QPSK	829.0	-1.50	1 / 0	25.24	21.59	0.144	38.45	-16.86
		836.5	-1.50	1 / 7	25.22	21.57	0.144	38.45	-16.88
		844.0	-1.50	1 / 14	25.27	21.62	0.145	38.45	-16.83
	16-QAM	844.0	-1.50	1 / 7	24.31	20.66	0.116	38.45	-17.79
	64-QAM	844.0	-1.50	1 / 7	23.32	19.67	0.093	38.45	-18.78
	256-QAM	844.0	-1.50	15 / 0	20.43	16.78	0.048	38.45	-21.67
5 MHz	QPSK	829.0	-1.50	1 / 24	25.30	21.65	0.146	38.45	-16.80
		836.5	-1.50	1 / 24	25.22	21.57	0.144	38.45	-16.88
		844.0	-1.50	1 / 12	25.30	21.65	0.146	38.45	-16.80
	16-QAM	836.5	-1.50	1 / 12	24.33	20.68	0.117	38.45	-17.77
	64-QAM	829.0	-1.50	1 / 12	23.34	19.69	0.093	38.45	-18.76
	256-QAM	836.5	-1.50	25 / 0	20.44	16.79	0.048	38.45	-21.66
10 MHz	QPSK	829.0	-1.50	1 / 49	25.28	21.63	0.146	38.45	-16.82
		836.5	-1.50	1 / 0	25.16	21.51	0.142	38.45	-16.94
		844.0	-1.50	1 / 25	25.16	21.51	0.142	38.45	-16.94
	16-QAM	844.0	-1.50	1 / 49	24.29	20.64	0.116	38.45	-17.81
	64-QAM	844.0	-1.50	1 / 25	23.39	19.74	0.094	38.45	-18.71
	256-QAM	829.0	-1.50	50 / 0	20.45	16.80	0.048	38.45	-21.65

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

FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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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	25.37	-1.50	21.72	0.149	38.45	-16.73
				20475	831.5	1	49		20574	841.4	1	0	25.42	-1.50	21.77	0.150	38.45	-16.68
				20600	844.0	1	0		20501	834.1	1	49	25.33	-1.50	21.68	0.147	38.45	-16.77
				20475	831.5	50	0		20574	841.4	50	0	22.92	-1.50	19.27	0.085	38.45	-19.18
			16-QAM	20475	831.5	50	0	16-QAM	20574	841.4	50	0	21.93	-1.50	18.28	0.067	38.45	-20.17
			64-QAM	20475	831.5	50	0	64-QAM	20574	841.4	50	0	21.88	-1.50	18.23	0.067	38.45	-20.22
			256-QAM	20475	831.5	50	0	256-QAM	20574	841.4	50	0	19.92	-1.50	16.27	0.042	38.45	-22.18

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	-1.50	1 / 23	25.40	21.75	0.150	38.45	-16.70
		836.5	-1.50	25 / 0	25.31	21.66	0.146	38.45	-16.79
		844.0	-1.50	25 / 0	25.26	21.61	0.145	38.45	-16.84
	QPSK	829.0	-1.50	1 / 23	25.40	21.75	0.149	38.45	-16.70
		836.5	-1.50	1 / 1	25.27	21.62	0.145	38.45	-16.83
		844.0	-1.50	1 / 12	25.36	21.71	0.148	38.45	-16.74
	16-QAM	829.0	-1.50	1 / 12	24.18	20.53	0.113	38.45	-17.92
	64-QAM	829.0	-1.50	25 / 0	23.45	19.80	0.096	38.45	-18.65
	256-QAM	829.0	-1.50	25 / 0	21.41	17.76	0.060	38.45	-20.69
10 MHz	$\pi/2$ BPSK	829.0	-1.50	50 / 0	25.38	21.73	0.149	38.45	-16.72
		836.5	-1.50	1 / 50	25.41	21.76	0.150	38.45	-16.69
		844.0	-1.50	50 / 0	25.47	21.82	0.152	38.45	-16.63
	QPSK	829.0	-1.50	1 / 25	25.32	21.67	0.147	38.45	-16.78
		836.5	-1.50	1 / 1	25.36	21.71	0.148	38.45	-16.74
		844.0	-1.50	1 / 25	25.35	21.70	0.148	38.45	-16.75
	16-QAM	836.5	-1.50	1 / 25	24.30	20.65	0.116	38.45	-17.80
	64-QAM	844.0	-1.50	50 / 0	23.41	19.76	0.095	38.45	-18.69
	256-QAM	844.0	-1.50	50 / 0	21.47	17.82	0.061	38.45	-20.63
15 MHz	$\pi/2$ BPSK	831.5	-1.50	1 / 36	25.33	21.68	0.147	38.45	-16.77
		836.5	-1.50	75 / 0	25.30	21.65	0.146	38.45	-16.80
		841.5	-1.50	75 / 0	25.33	21.68	0.147	38.45	-16.77
	QPSK	831.5	-1.50	1 / 1	25.24	21.59	0.144	38.45	-16.86
		836.5	-1.50	1 / 77	25.30	21.65	0.146	38.45	-16.80
		841.5	-1.50	1 / 77	25.32	21.67	0.147	38.45	-16.78
	16-QAM	841.5	-1.50	1 / 36	24.25	20.60	0.115	38.45	-17.85
	64-QAM	841.5	-1.50	75 / 0	23.39	19.74	0.094	38.45	-18.71
	256-QAM	841.5	-1.50	75 / 0	21.42	17.77	0.060	38.45	-20.68
20 MHz	$\pi/2$ BPSK	834.0	-1.50	100 / 0	25.28	21.63	0.146	38.45	-16.82
		836.5	-1.50	100 / 0	25.26	21.61	0.145	38.45	-16.84
		839.0	-1.50	100 / 0	25.24	21.59	0.144	38.45	-16.86
	QPSK	834.0	-1.50	1 / 104	25.33	21.68	0.147	38.45	-16.78
		836.5	-1.50	1 / 1	25.29	21.64	0.146	38.45	-16.82
		839.0	-1.50	1 / 1	25.27	21.62	0.145	38.45	-16.83
	16-QAM	836.5	-1.50	1 / 50	24.22	20.57	0.114	38.45	-17.88
	64-QAM	839.0	-1.50	100 / 0	23.32	19.67	0.093	38.45	-18.78
	256-QAM	834.0	-1.50	100 / 0	21.30	17.65	0.058	38.45	-20.80

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	-1.50	25 / 0	25.55	21.90	0.155	38.45	-16.55
		836.5	-1.50	25 / 0	25.33	21.68	0.147	38.45	-16.77
		844.0	-1.50	25 / 0	25.25	21.60	0.145	38.45	-16.85
	QPSK	829.0	-1.50	1 / 1	25.51	21.86	0.154	38.45	-16.59
		836.5	-1.50	1 / 23	25.34	21.69	0.148	38.45	-16.76
		844.0	-1.50	1 / 12	25.26	21.61	0.145	38.45	-16.84
	16-QAM	836.5	-1.50	1 / 12	24.27	20.62	0.115	38.45	-17.84
	64-QAM	829.0	-1.50	25 / 0	23.38	19.73	0.094	38.45	-18.72
	256-QAM	829.0	-1.50	25 / 0	21.36	17.71	0.059	38.45	-20.74
10 MHz	$\pi/2$ BPSK	829.0	-1.50	50 / 0	25.38	21.73	0.149	38.45	-16.72
		836.5	-1.50	50 / 0	25.31	21.66	0.147	38.45	-16.79
		844.0	-1.50	50 / 0	25.38	21.73	0.149	38.45	-16.72
	QPSK	829.0	-1.50	1 / 1	25.33	21.68	0.147	38.45	-16.77
		836.5	-1.50	1 / 1	25.28	21.63	0.146	38.45	-16.82
		844.0	-1.50	1 / 25	25.30	21.65	0.146	38.45	-16.80
	16-QAM	836.5	-1.50	1 / 50	24.35	20.70	0.118	38.45	-17.75
	64-QAM	844.0	-1.50	50 / 0	23.39	19.74	0.094	38.45	-18.71
	256-QAM	844.0	-1.50	50 / 0	21.44	17.79	0.060	38.45	-20.66
15 MHz	$\pi/2$ BPSK	831.5	-1.50	75 / 0	25.24	21.59	0.144	38.45	-16.86
		836.5	-1.50	75 / 0	25.30	21.65	0.146	38.45	-16.81
		841.5	-1.50	75 / 0	25.28	21.63	0.146	38.45	-16.82
	QPSK	831.5	-1.50	1 / 77	25.25	21.60	0.145	38.45	-16.85
		836.5	-1.50	1 / 77	25.31	21.66	0.147	38.45	-16.79
		841.5	-1.50	1 / 36	25.34	21.69	0.148	38.45	-16.76
	16-QAM	841.5	-1.50	1 / 1	24.06	20.41	0.110	38.45	-18.04
	64-QAM	841.5	-1.50	75 / 0	23.33	19.68	0.093	38.45	-18.77
	256-QAM	841.5	-1.50	75 / 0	21.26	17.61	0.058	38.45	-20.85
20 MHz	$\pi/2$ BPSK	834.0	-1.50	100 / 0	25.29	21.64	0.146	38.45	-16.81
		836.5	-1.50	100 / 0	25.27	21.62	0.145	38.45	-16.84
		839.0	-1.50	100 / 0	25.25	21.60	0.144	38.45	-16.86
	QPSK	834.0	-1.50	1 / 104	25.27	21.62	0.145	38.45	-16.83
		836.5	-1.50	1 / 1	25.26	21.61	0.145	38.45	-16.85
		839.0	-1.50	1 / 1	25.19	21.54	0.143	38.45	-16.91
	16-QAM	836.5	-1.50	1 / 50	24.33	20.68	0.117	38.45	-17.77
	64-QAM	839.0	-1.50	100 / 0	23.28	19.63	0.092	38.45	-18.82
	256-QAM	839.0	-1.50	100 / 0	21.27	17.62	0.058	38.45	-20.83

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

FCC ID: BCGA3358	 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	25.43	-1.50	21.78	0.151	38.45	-16.67
836.60	WCDMA850	25.58	-1.50	21.93	0.156	38.45	-16.52
846.60	WCDMA850	25.36	-1.50	21.71	0.148	38.45	-16.74

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

FCC ID: BCGA3358		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	-1.30	1 / 5	24.19	20.74	0.119	38.45	-17.71
		836.5	-1.30	1 / 5	24.28	20.83	0.121	38.45	-17.62
		848.3	-1.30	1 / 3	24.29	20.84	0.121	38.45	-17.61
	16-QAM	836.5	-1.30	1 / 5	23.32	19.87	0.097	38.45	-18.58
	64-QAM	836.5	-1.30	1 / 5	22.32	18.87	0.077	38.45	-19.58
	256-QAM	848.3	-1.30	6 / 0	19.41	15.96	0.039	38.45	-22.49
3 MHz	QPSK	825.5	-1.30	1 / 0	24.24	20.79	0.120	38.45	-17.66
		836.5	-1.30	1 / 0	24.17	20.72	0.118	38.45	-17.73
		847.5	-1.30	1 / 0	24.21	20.76	0.119	38.45	-17.69
	16-QAM	836.5	-1.30	1 / 7	23.26	19.81	0.096	38.45	-18.64
	64-QAM	847.5	-1.30	1 / 14	22.22	18.77	0.075	38.45	-19.68
	256-QAM	836.5	-1.30	15 / 0	19.40	15.95	0.039	38.45	-22.50
5 MHz	QPSK	826.5	-1.30	1 / 24	24.20	20.75	0.119	38.45	-17.70
		836.5	-1.30	1 / 24	24.28	20.83	0.121	38.45	-17.62
		846.5	-1.30	1 / 24	24.25	20.80	0.120	38.45	-17.65
	16-QAM	836.5	-1.30	1 / 12	23.31	19.86	0.097	38.45	-18.59
	64-QAM	846.5	-1.30	1 / 24	22.30	18.85	0.077	38.45	-19.60
	256-QAM	826.5	-1.30	25 / 0	19.42	15.97	0.040	38.45	-22.48
10 MHz	QPSK	829.0	-1.30	1 / 49	24.21	20.76	0.119	38.45	-17.69
		836.5	-1.30	1 / 0	24.25	20.80	0.120	38.45	-17.65
		844.0	-1.30	1 / 49	24.29	20.84	0.121	38.45	-17.61
	16-QAM	836.5	-1.30	1 / 49	23.29	19.84	0.096	38.45	-18.61
	64-QAM	844.0	-1.30	1 / 0	22.23	18.78	0.076	38.45	-19.67
	256-QAM	829.0	-1.30	50 / 0	19.40	15.95	0.039	38.45	-22.50

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

FCC ID: BCGA3358	 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	-1.30	1 / 5	24.30	20.85	0.122	38.45	-17.60
		836.5	-1.30	1 / 5	24.24	20.79	0.120	38.45	-17.66
		844.0	-1.30	1 / 0	24.27	20.82	0.121	38.45	-17.63
	16-QAM	836.5	-1.30	1 / 3	23.29	19.84	0.096	38.45	-18.61
	64-QAM	844.0	-1.30	1 / 3	22.16	18.71	0.074	38.45	-19.74
	256-QAM	836.5	-1.30	6 / 0	19.41	15.96	0.039	38.45	-22.49
3 MHz	QPSK	829.0	-1.30	1 / 14	24.29	20.84	0.121	38.45	-17.61
		836.5	-1.30	1 / 0	24.28	20.83	0.121	38.45	-17.62
		844.0	-1.30	1 / 14	24.26	20.81	0.121	38.45	-17.64
	16-QAM	829.0	-1.30	1 / 14	23.30	19.85	0.097	38.45	-18.60
	64-QAM	836.5	-1.30	1 / 7	22.36	18.91	0.078	38.45	-19.54
	256-QAM	844.0	-1.30	15 / 0	19.42	15.97	0.040	38.45	-22.48
5 MHz	QPSK	829.0	-1.30	1 / 0	24.25	20.80	0.120	38.45	-17.65
		836.5	-1.30	1 / 24	24.17	20.72	0.118	38.45	-17.73
		844.0	-1.30	1 / 0	24.18	20.73	0.118	38.45	-17.72
	16-QAM	844.0	-1.30	1 / 12	23.35	19.90	0.098	38.45	-18.55
	64-QAM	829.0	-1.30	1 / 24	22.26	18.81	0.076	38.45	-19.64
	256-QAM	844.0	-1.30	25 / 0	19.43	15.98	0.040	38.45	-22.47
10 MHz	QPSK	829.0	-1.30	1 / 49	24.30	20.85	0.122	38.45	-17.60
		836.5	-1.30	1 / 25	24.22	20.77	0.119	38.45	-17.68
		844.0	-1.30	1 / 49	24.23	20.78	0.120	38.45	-17.67
	16-QAM	836.5	-1.30	1 / 25	23.30	19.85	0.097	38.45	-18.60
	64-QAM	844.0	-1.30	1 / 25	22.18	18.73	0.075	38.45	-19.72
	256-QAM	836.5	-1.30	50 / 0	19.41	15.96	0.039	38.45	-22.49

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

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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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	24.49	-1.30	21.04	0.127	38.45	-17.41	
				20475	831.5	1	49		20574	841.4	1	0	24.52	-1.30	21.07	0.128	38.45	-17.38	
				20600	844.0	1	0		20501	834.1	1	49	24.42	-1.30	20.97	0.125	38.45	-17.48	
			QPSK	20475	831.5	50	0	QPSK	20574	841.4	50	0	21.87	-1.30	18.42	0.070	38.45	-20.03	
			16-QAM	20475	831.5	50	0	16-QAM	20574	841.4	50	0	20.91	-1.30	17.46	0.056	38.45	-20.99	
			64-QAM	20475	831.5	50	0	64-QAM	20574	841.4	50	0	20.84	-1.30	17.39	0.055	38.45	-21.06	
			256-QAM	20475	831.5	50	0	256-QAM	20574	841.4	50	0	18.86	-1.30	15.41	0.035	38.45	-23.04	

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

FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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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	-1.3	1 / 23	24.29	20.84	0.121	38.45	-17.61
		836.5	-1.30	1 / 1	24.29	20.84	0.121	38.45	-17.61
		844.0	-1.30	1 / 23	24.38	20.93	0.124	38.45	-17.53
	QPSK	829.0	-1.30	1 / 23	24.40	20.95	0.124	38.45	-17.50
		836.5	-1.30	1 / 12	24.30	20.85	0.122	38.45	-17.60
		844.0	-1.30	1 / 23	24.37	20.92	0.124	38.45	-17.53
	16-QAM	844.0	-1.30	1 / 23	23.28	19.83	0.096	38.45	-18.62
	64-QAM	829.0	-1.30	25 / 0	22.37	18.92	0.078	38.45	-19.53
	256-QAM	829.0	-1.30	25 / 0	20.38	16.93	0.049	38.45	-21.52
10 MHz	$\pi/2$ BPSK	829.0	-1.30	50 / 0	24.36	20.91	0.123	38.45	-17.54
		836.5	-1.30	50 / 0	24.29	20.84	0.121	38.45	-17.61
		844.0	-1.30	50 / 0	24.34	20.89	0.123	38.45	-17.56
	QPSK	829.0	-1.30	1 / 1	24.36	20.91	0.123	38.45	-17.54
		836.5	-1.30	1 / 50	24.25	20.80	0.120	38.45	-17.65
		844.0	-1.30	1 / 50	24.32	20.87	0.122	38.45	-17.59
	16-QAM	829.0	-1.30	1 / 25	23.19	19.74	0.094	38.45	-18.71
	64-QAM	844.0	-1.30	50 / 0	22.33	18.88	0.077	38.45	-19.57
	256-QAM	829.0	-1.30	50 / 0	20.39	16.94	0.049	38.45	-21.51
15 MHz	$\pi/2$ BPSK	831.5	-1.30	1 / 1	24.22	20.77	0.119	38.45	-17.69
		836.5	-1.30	75 / 0	24.26	20.81	0.121	38.45	-17.64
		841.5	-1.30	75 / 0	24.29	20.84	0.121	38.45	-17.62
	QPSK	831.5	-1.30	1 / 36	24.26	20.81	0.120	38.45	-17.64
		836.5	-1.30	1 / 36	24.19	20.74	0.119	38.45	-17.71
		841.5	-1.30	1 / 36	24.18	20.73	0.118	38.45	-17.72
	16-QAM	831.5	-1.30	1 / 1	23.21	19.76	0.095	38.45	-18.69
	64-QAM	836.5	-1.30	75 / 0	22.29	18.84	0.077	38.45	-19.61
	256-QAM	836.5	-1.30	75 / 0	20.24	16.79	0.048	38.45	-21.66
20 MHz	$\pi/2$ BPSK	834.0	-1.30	1 / 104	24.16	20.71	0.118	38.45	-17.74
		836.5	-1.30	100 / 0	24.19	20.74	0.119	38.45	-17.71
		839.0	-1.30	100 / 0	24.26	20.81	0.120	38.45	-17.64
	QPSK	834.0	-1.30	1 / 1	24.18	20.73	0.118	38.45	-17.72
		836.5	-1.30	1 / 104	24.15	20.70	0.118	38.45	-17.75
		839.0	-1.30	1 / 104	24.24	20.79	0.120	38.45	-17.66
	16-QAM	839.0	-1.30	1 / 1	23.21	19.76	0.095	38.45	-18.69
	64-QAM	836.5	-1.30	100 / 0	22.24	18.79	0.076	38.45	-19.66
	256-QAM	839.0	-1.30	100 / 0	20.23	16.78	0.048	38.45	-21.67

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

FCC ID: BCGA3358	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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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	-1.3	1 / 23	24.50	21.05	0.127	38.45	-17.40
		836.5	-1.30	25 / 0	24.23	20.78	0.120	38.45	-17.67
		844.0	-1.30	25 / 0	24.16	20.71	0.118	38.45	-17.74
	QPSK	829.0	-1.30	1 / 12	24.33	20.88	0.123	38.45	-17.57
		836.5	-1.30	1 / 23	24.33	20.88	0.123	38.45	-17.57
		844.0	-1.30	1 / 23	24.35	20.90	0.123	38.45	-17.55
	16-QAM	844.0	-1.30	1 / 23	23.35	19.90	0.098	38.45	-18.55
	64-QAM	829.0	-1.30	25 / 0	22.36	18.91	0.078	38.45	-19.54
	256-QAM	829.0	-1.30	25 / 0	20.34	16.89	0.049	38.45	-21.56
10 MHz	$\pi/2$ BPSK	829.0	-1.30	50 / 0	24.36	20.91	0.123	38.45	-17.54
		836.5	-1.30	50 / 0	24.30	20.85	0.122	38.45	-17.60
		844.0	-1.30	1 / 50	24.37	20.92	0.124	38.45	-17.53
	QPSK	829.0	-1.30	1 / 50	24.23	20.78	0.120	38.45	-17.67
		836.5	-1.30	1 / 25	24.26	20.81	0.121	38.45	-17.64
		844.0	-1.30	1 / 25	24.40	20.95	0.125	38.45	-17.50
	16-QAM	844.0	-1.30	1 / 25	23.18	19.73	0.094	38.45	-18.72
	64-QAM	829.0	-1.30	50 / 0	22.33	18.88	0.077	38.45	-19.57
	256-QAM	829.0	-1.30	50 / 0	20.37	16.92	0.049	38.45	-21.53
15 MHz	$\pi/2$ BPSK	831.5	-1.30	1 / 1	24.19	20.74	0.118	38.45	-17.71
		836.5	-1.30	75 / 0	24.19	20.74	0.119	38.45	-17.71
		841.5	-1.30	75 / 0	24.25	20.80	0.120	38.45	-17.65
	QPSK	831.5	-1.30	1 / 1	24.23	20.78	0.120	38.45	-17.67
		836.5	-1.30	1 / 1	24.38	20.93	0.124	38.45	-17.52
		841.5	-1.30	1 / 77	24.28	20.83	0.121	38.45	-17.62
	16-QAM	841.5	-1.30	1 / 77	23.29	19.84	0.096	38.45	-18.61
	64-QAM	841.5	-1.30	75 / 0	22.30	18.85	0.077	38.45	-19.60
	256-QAM	841.5	-1.30	75 / 0	20.24	16.79	0.048	38.45	-21.66
20 MHz	$\pi/2$ BPSK	834.0	-1.30	1 / 104	24.20	20.75	0.119	38.45	-17.70
		836.5	-1.30	100 / 0	24.23	20.78	0.120	38.45	-17.67
		839.0	-1.30	100 / 0	24.28	20.83	0.121	38.45	-17.62
	QPSK	834.0	-1.30	1 / 1	24.24	20.79	0.120	38.45	-17.66
		836.5	-1.30	1 / 104	24.38	20.93	0.124	38.45	-17.52
		839.0	-1.30	1 / 104	24.29	20.84	0.121	38.45	-17.61
	16-QAM	839.0	-1.30	1 / 104	23.12	19.67	0.093	38.45	-18.78
	64-QAM	836.5	-1.30	100 / 0	22.27	18.82	0.076	38.45	-19.63
	256-QAM	839.0	-1.30	100 / 0	20.25	16.80	0.048	38.45	-21.65

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

FCC ID: BCGA3358	 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	24.35	-1.30	20.90	0.123	38.45	-17.55
836.60	WCDMA850	24.62	-1.30	21.17	0.131	38.45	-17.28
846.60	WCDMA850	24.34	-1.30	20.89	0.123	38.45	-17.56

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

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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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.

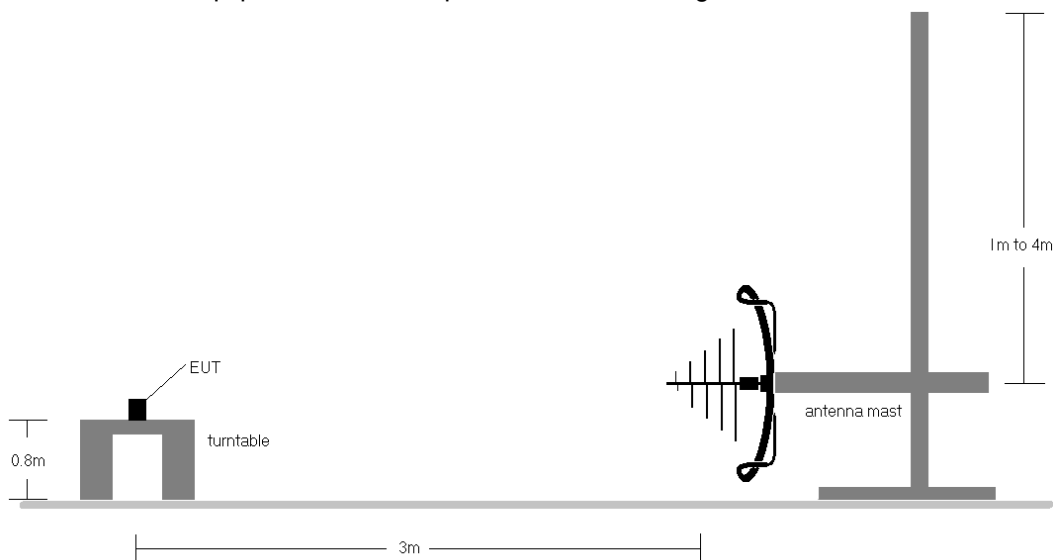


Figure 7-9. Test Instrument & Measurement Setup < 1GHz

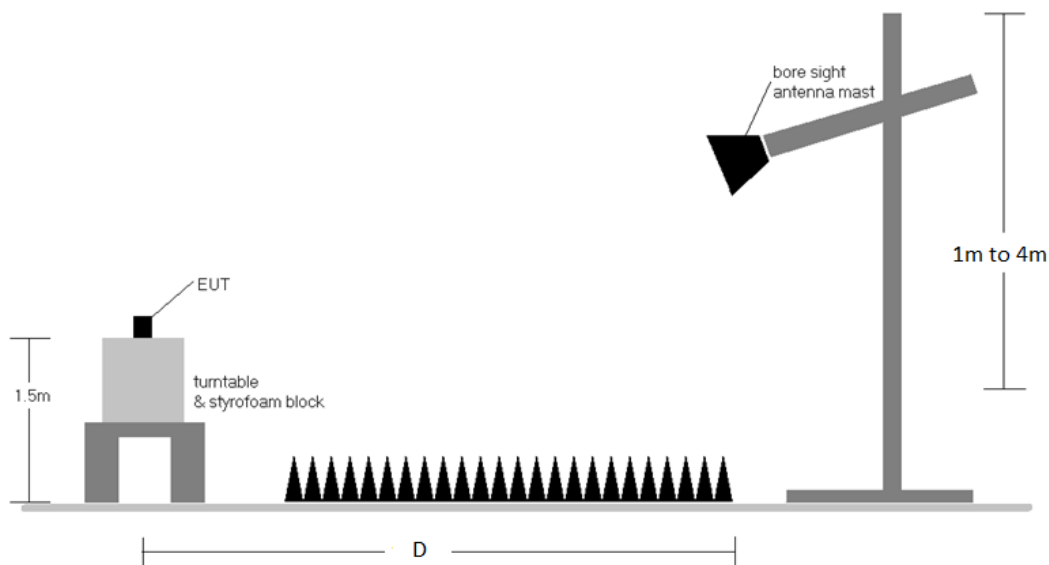


Figure 7-10. Test Instrument & Measurement Setup >1 GHz

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Test Notes

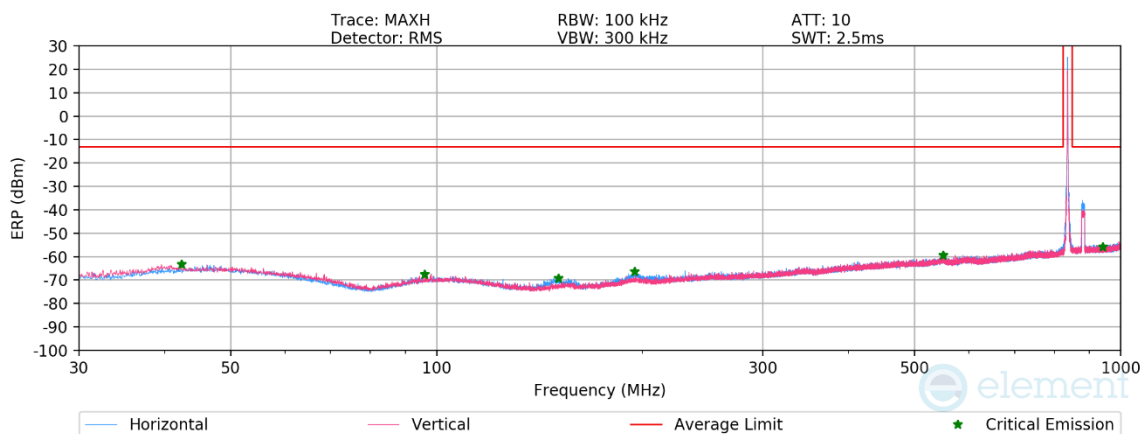
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m})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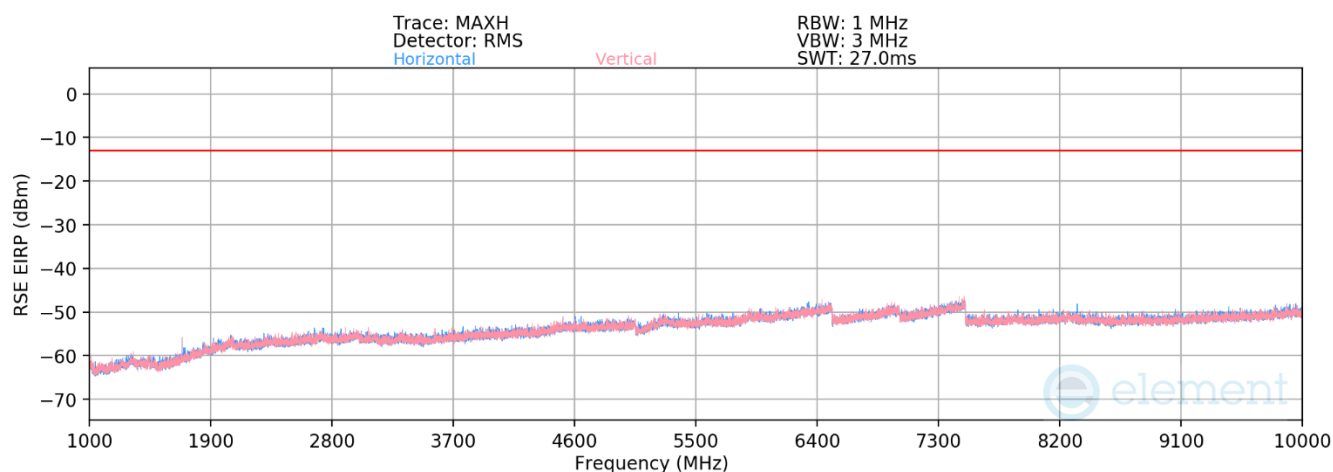
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7.6.1 Antenna 3 – Radiated Spurious Emission Measurements

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 / 24

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	242	220	-71.82	-6.10	29.08	-66.18	-13.00	-53.18
2487.0	V	-	-	-75.40	-2.02	29.58	-65.67	-13.00	-52.67
3316.0	V	-	-	-75.87	-0.39	30.74	-64.52	-13.00	-51.52
4145.0	H	-	-	-76.42	0.99	31.57	-63.69	-13.00	-50.69

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

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 24

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	V	269	300	-74.53	-1.65	30.82	-64.44	-13.00	-51.44
2509.5	H	-	-	-77.83	2.52	31.69	-63.56	-13.00	-50.56
3346.0	V	-	-	-79.17	4.96	32.79	-62.46	-13.00	-49.46
4182.5	V	-	-	-78.80	5.66	33.86	-61.39	-13.00	-48.39

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

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 24

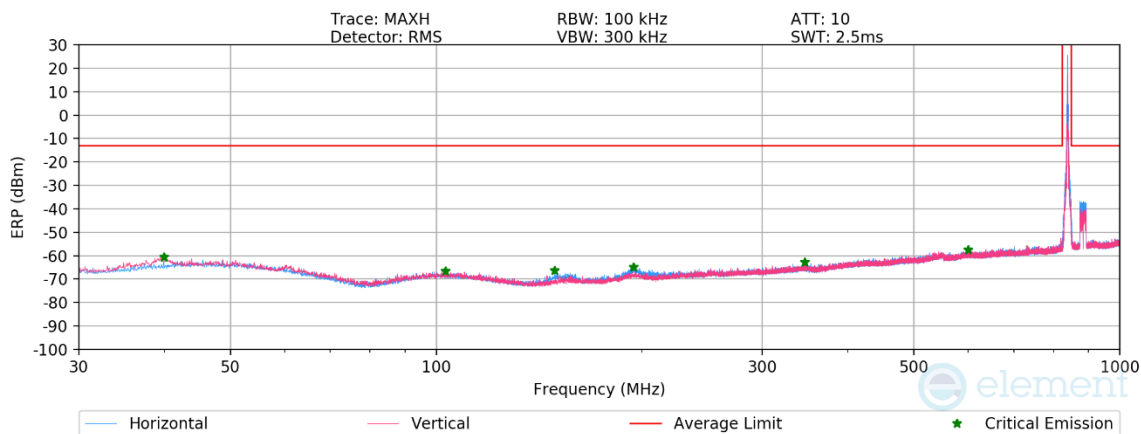
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	V	234	290	-70.81	-1.72	34.46	-60.79	-13.00	-47.79
2532.0	H	-	-	-78.24	2.85	31.61	-63.65	-13.00	-50.65
3376.0	H	-	-	-79.30	5.06	32.76	-62.50	-13.00	-49.50
4220.0	V	-	-	-78.90	5.66	33.76	-61.50	-13.00	-48.50

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

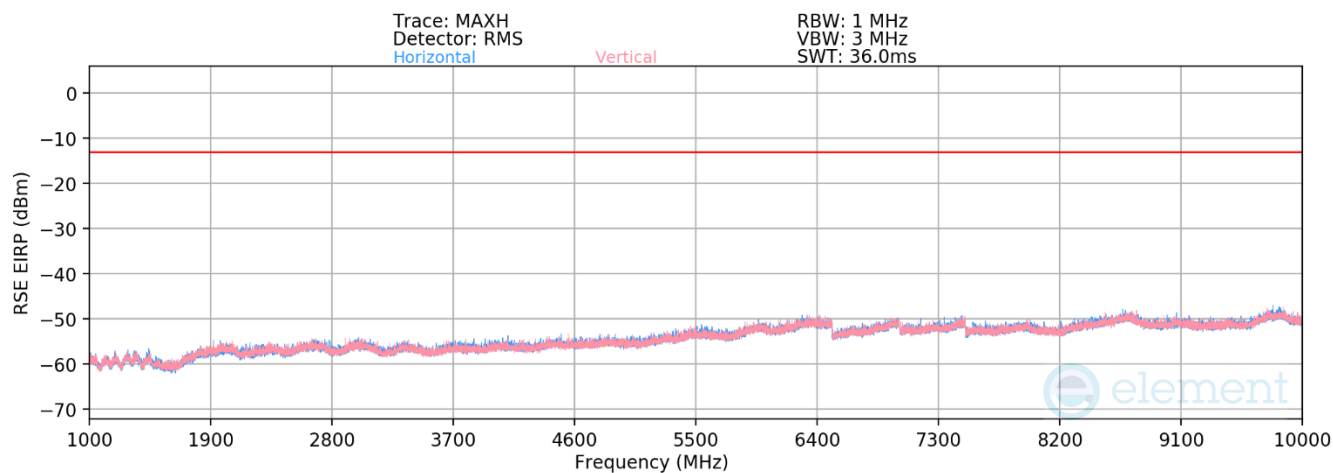
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ULCA LTE Band 5



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)

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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	-	-	-74.56	-4.80	27.64	-67.62	-13.00	-54.62
2487.0	V	-	-	-74.80	-0.01	32.19	-63.06	-13.00	-50.06
3316.0	H	-	-	-75.86	2.40	33.54	-61.72	-13.00	-48.72

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

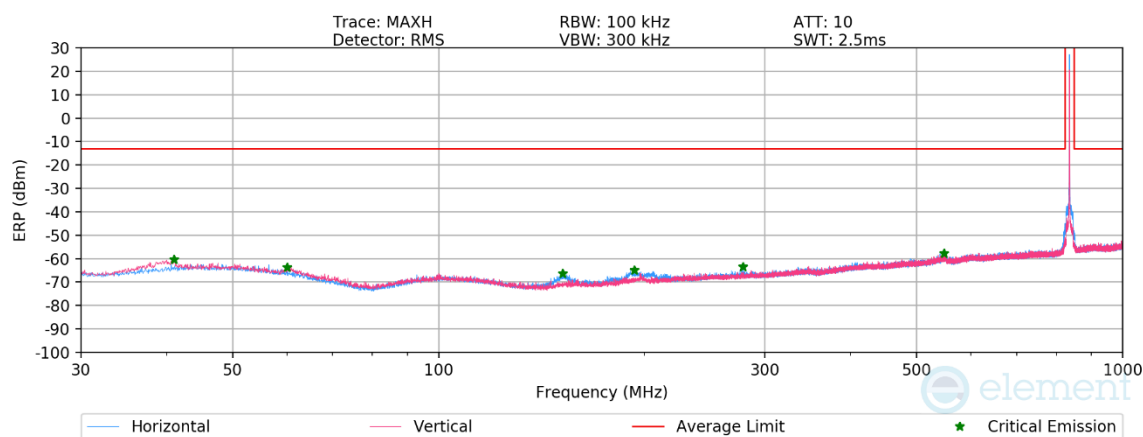
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	-	-	-75.29	-4.72	26.98	-68.28	-13.00	-55.28
2532.0	V	-	-	-74.58	0.13	32.55	-62.71	-13.00	-49.71
3376.0	V	-	-	-76.12	2.50	33.38	-61.88	-13.00	-48.88

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

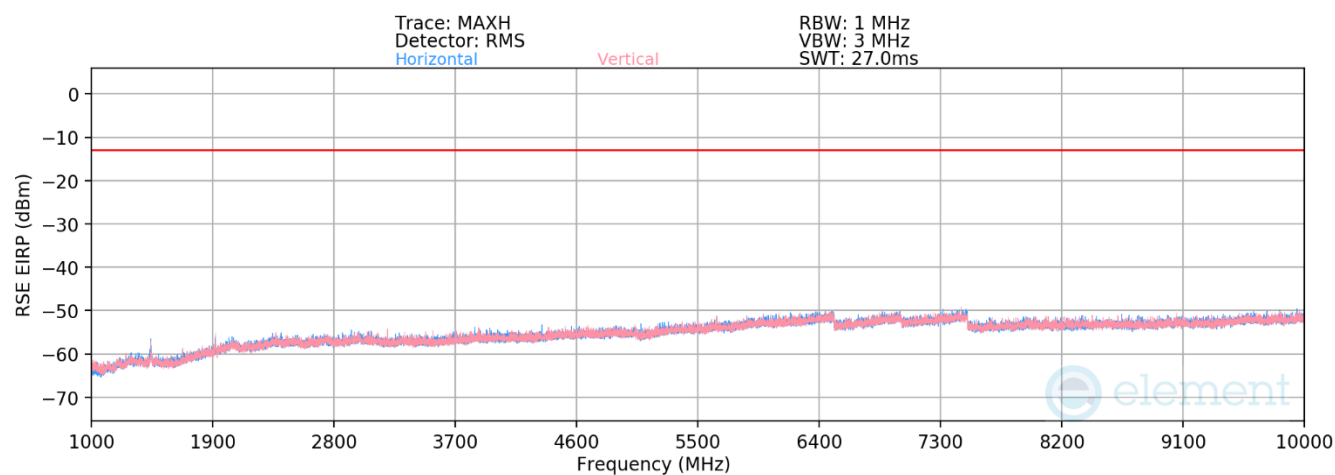
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NR Band n26/5



Plot 7-118. Antenna 3 Radiated Spurious Plot below 1GHz (NR Band n26/5)



Plot 7-119. Antenna 3 Radiated Spurious Plot above 1GHz (NR Band n26/5)

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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	V	150	261	-72.75	-4.60	29.65	-65.61	-13.00	-52.61
2502.0	V	-	-	-75.97	0.22	31.25	-64.01	-13.00	-51.01
3336.0	H	-	-	-76.82	1.63	31.81	-63.45	-13.00	-50.45
4170.0	H	-	-	-77.32	2.65	32.34	-62.92	-13.00	-49.92

Table 7-19. Antenna 3 Radiated Spurious Data (NR Band n26/5 – 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	V	248	263	-72.90	-4.60	29.50	-65.76	-13.00	-52.76
2509.5	V	-	-	-75.67	0.22	31.55	-63.71	-13.00	-50.71
3346.0	V	-	-	-77.14	1.87	31.73	-63.52	-13.00	-50.52
4182.5	V	-	-	-77.31	2.65	32.34	-62.92	-13.00	-49.92

Table 7-20. Antenna 3 Radiated Spurious Data (NR Band n26/5 – Mid Channel)

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

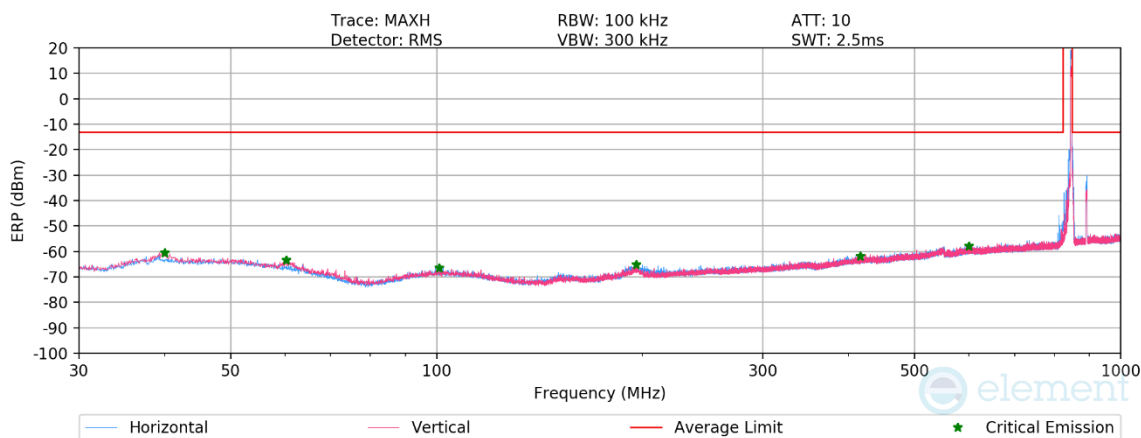
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	V	243	67	-73.06	-4.60	29.34	-65.92	-13.00	-52.92
2517.0	V	-	-	-75.75	0.39	31.64	-63.61	-13.00	-50.61
3356.0	H	-	-	-76.90	1.71	31.81	-63.45	-13.00	-50.45
4195.0	H	-	-	-77.26	2.65	32.40	-62.86	-13.00	-49.86

Table 7-21. Antenna 3 Radiated Spurious Data (NR Band n26/5 – High Channel)

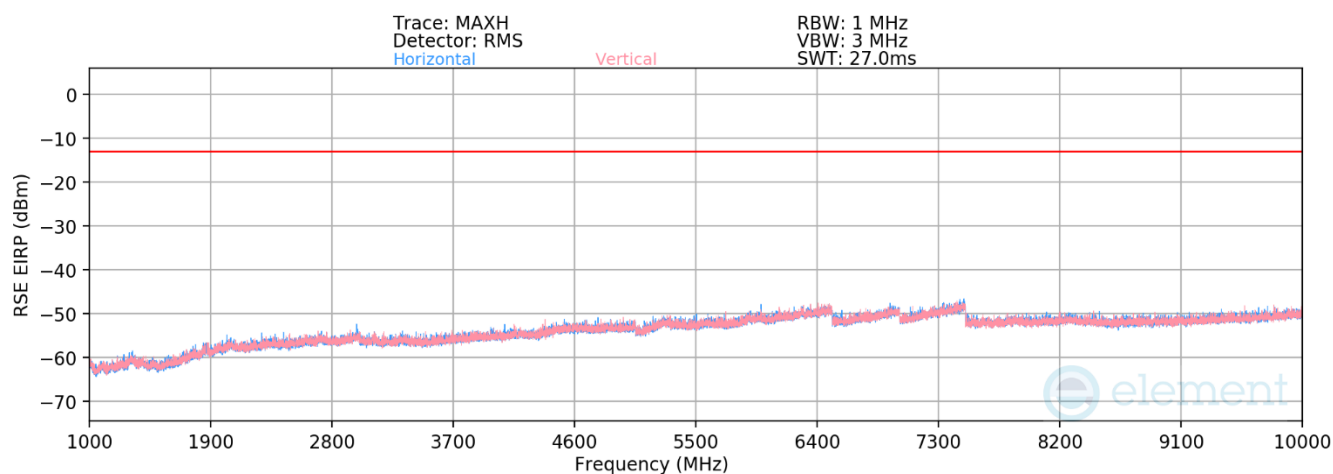
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WCDMA Cell



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



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

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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	-	-	-76.55	-1.72	28.72	-66.53	-13.00	-53.53
2479.2	H	-	-	-77.91	2.64	31.73	-63.53	-13.00	-50.53
3305.6	H	-	-	-78.90	4.72	32.82	-62.43	-13.00	-49.43

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	V	-	-	-77.59	-0.22	29.19	-66.07	-13.00	-53.07
2509.8	V	-	-	-78.74	3.60	31.86	-63.39	-13.00	-50.39
3346.4	V	-	-	-78.72	4.44	32.72	-62.54	-13.00	-49.54

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	-	-	-76.68	-1.72	28.60	-66.66	-13.00	-53.66
2539.8	V	-	-	-77.49	2.53	32.05	-63.21	-13.00	-50.21
3386.4	H	-	-	-78.75	4.61	32.86	-62.40	-13.00	-49.40

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

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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 / 24

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	249	178	-73.54	-1.44	32.02	-63.24	-13.00	-50.24
2487.0	H	-	-	-78.38	2.49	31.11	-64.14	-13.00	-51.14
3316.0	H	-	-	-78.51	4.47	32.96	-62.30	-13.00	-49.30
4145.0	V	-	-	-79.46	6.04	33.58	-61.68	-13.00	-48.68

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

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 24

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	248	180	-70.97	-1.65	34.38	-60.88	-13.00	-47.88
2509.5	H	-	-	-78.20	2.52	31.32	-63.94	-13.00	-50.94
3346.0	H	-	-	-79.11	4.69	32.58	-62.68	-13.00	-49.68
4182.5	H	-	-	-78.99	5.66	33.67	-61.59	-13.00	-48.59

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

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 24

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	244	180	-69.42	-1.72	35.86	-59.40	-13.00	-46.40
2532.0	V	-	-	-78.38	2.85	31.48	-63.78	-13.00	-50.78
3376.0	V	-	-	-79.11	4.87	32.76	-62.50	-13.00	-49.50
4220.0	V	-	-	-79.46	6.13	33.67	-61.59	-13.00	-48.59

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

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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	-	-	-75.35	-4.72	26.93	-68.33	-13.00	-55.33
2487.0	V	-	-	-74.64	-0.01	32.35	-62.91	-13.00	-49.91
3316.0	H	-	-	-76.39	2.40	33.01	-62.25	-13.00	-49.25

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	-	-	-75.31	-4.80	26.89	-68.37	-13.00	-55.37
2532.0	H	-	-	-74.27	0.13	32.87	-62.39	-13.00	-49.39
3376.0	V	-	-	-75.92	2.50	33.58	-61.68	-13.00	-48.68

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

FCC ID: BCGA3358		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26/5

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	263	112	-71.19	-4.60	31.21	-64.05	-13.00	-51.05
2502.0	V	-	-	-76.04	0.39	31.36	-63.90	-13.00	-50.90
3336.0	H	-	-	-76.98	1.77	31.78	-63.47	-13.00	-50.47
4170.0	H	-	-	-77.17	2.65	32.48	-62.77	-13.00	-49.77

Table 7-30. Antenna 1 Radiated Spurious Data (NR Band n26/5 – 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	248	112	-71.75	-4.60	30.65	-64.61	-13.00	-51.61
2509.5	H	-	-	-75.61	0.37	31.76	-63.50	-13.00	-50.50
3346.0	H	-	-	-76.61	1.64	32.03	-63.23	-13.00	-50.23
4182.5	H	-	-	-77.30	2.63	32.33	-62.93	-13.00	-49.93

Table 7-31. Antenna 1 Radiated Spurious Data (NR Band n26/5 – 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	254	110	-70.58	-4.60	31.82	-63.44	-13.00	-50.44
2517.0	V	-	-	-75.87	0.22	31.35	-63.91	-13.00	-50.91
3356.0	H	-	-	-77.02	1.77	31.74	-63.52	-13.00	-50.52
4195.0	H	-	-	-77.05	2.65	32.60	-62.65	-13.00	-49.65

Table 7-32. Antenna 1 Radiated Spurious Data (NR Band n26/5 – High Channel)

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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	V	-	-	-77.58	-1.65	27.77	-67.48	-13.00	-54.48
2479.2	H	-	-	-77.69	2.40	31.72	-63.54	-13.00	-50.54
3305.6	H	-	-	-77.97	4.47	33.50	-61.76	-13.00	-48.76

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	-	-	-76.95	-1.72	28.33	-66.93	-13.00	-53.93
2509.8	V	-	-	-77.82	2.53	31.71	-63.55	-13.00	-50.55
3346.4	H	-	-	-79.13	4.94	32.81	-62.45	-13.00	-49.45

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	V	-	-	-77.05	-1.72	28.22	-67.03	-13.00	-54.03
2539.8	H	-	-	-77.71	2.52	31.81	-63.44	-13.00	-50.44
3386.4	V	-	-	-78.82	4.61	32.78	-62.48	-13.00	-49.48

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

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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

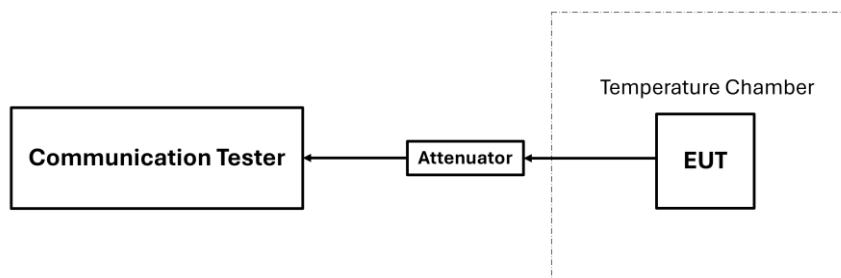


Figure 7-11. LTE Test Instrument & Measurement Setup

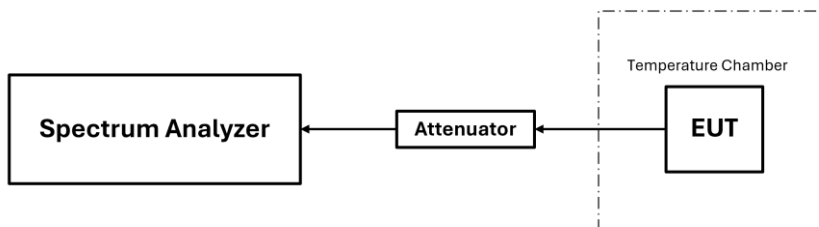


Figure 7-12. FR1 Test Instrument & Measurement Setup

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	836,499,861	-121.00	-0.0000145
		- 20	836,499,946	-36.00	-0.0000043
		- 10	836,499,957	-25.00	-0.0000030
		0	836,499,949	-33.00	-0.0000039
		+ 10	836,499,958	-24.00	-0.0000029
		+ 20 (Ref)	836,499,982	0.00	0.0000000
		+ 30	836,499,949	-33.00	-0.0000039
		+ 40	836,499,928	-54.00	-0.0000065
		+ 50	836,499,931	-51.00	-0.0000061
Battery Endpoint	3.40	+ 20	836,499,934	-48.00	-0.0000057

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

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Frequency Tolerance / Temperature Variation

NR Band n26/5					
		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	836,499,951	-35.00	-0.0000042
		- 20	836,499,964	-22.00	-0.0000026
		- 10	836,499,970	-16.00	-0.0000019
		0	836,499,961	-25.00	-0.0000030
		+ 10	836,499,950	-36.00	-0.0000043
		+ 20 (Ref)	836,499,986	0.00	0.0000000
		+ 30	836,499,933	-53.00	-0.0000063
		+ 40	836,499,944	-42.00	-0.0000050
		+ 50	836,499,931	-55.00	-0.0000066
Battery Endpoint	3.40	+ 20	836,499,950	-36.00	-0.0000043

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	836,599,930	-54.00	-0.0000065
		- 20	836,599,942	-42.00	-0.0000050
		- 10	836,599,941	-43.00	-0.0000051
		0	836,599,945	-39.00	-0.0000047
		+ 10	836,599,929	-55.00	-0.0000066
		+ 20 (Ref)	836,599,984	0.00	0.0000000
		+ 30	836,599,962	-22.00	-0.0000026
		+ 40	836,599,926	-58.00	-0.0000069
		+ 50	836,599,921	-63.00	-0.0000075
Battery Endpoint	3.40	+ 20	836,599,949	-35.00	-0.0000042

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: BCGA3358** complies with all the requirements of Part 22 of the FCC rules.

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