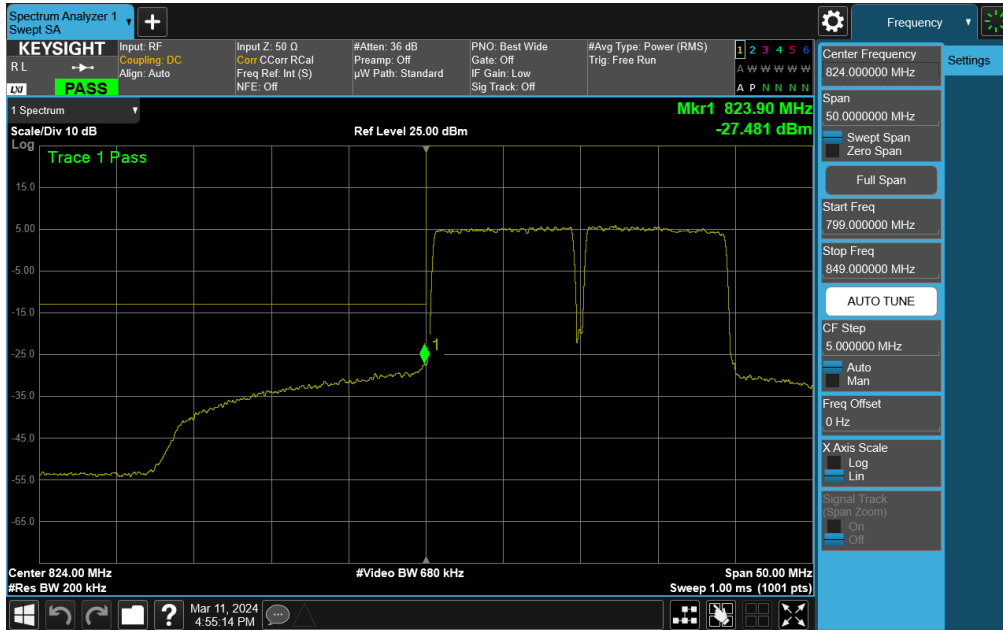
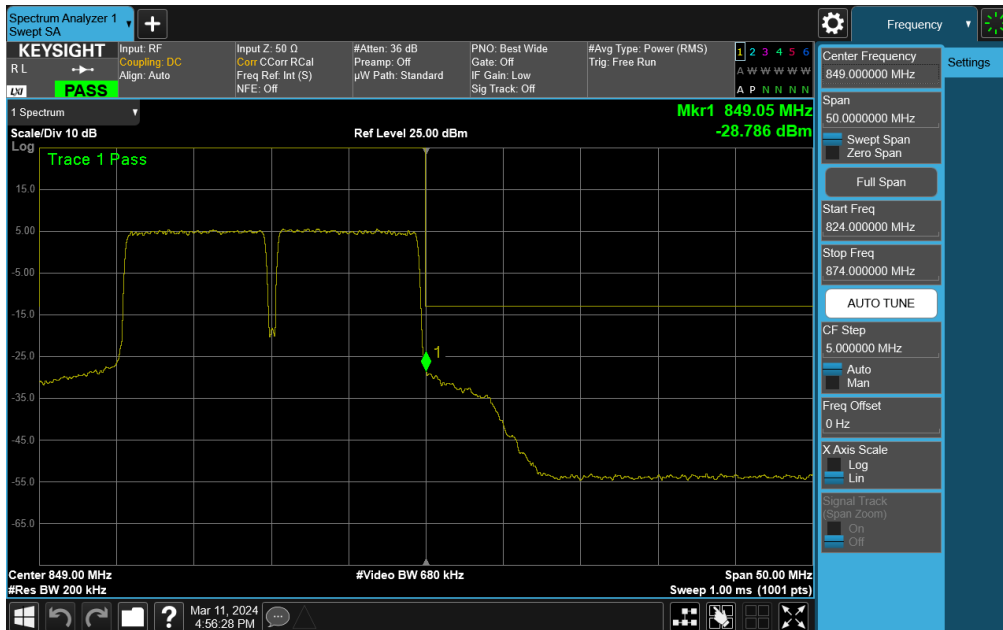


ULCA - LTE Band 5



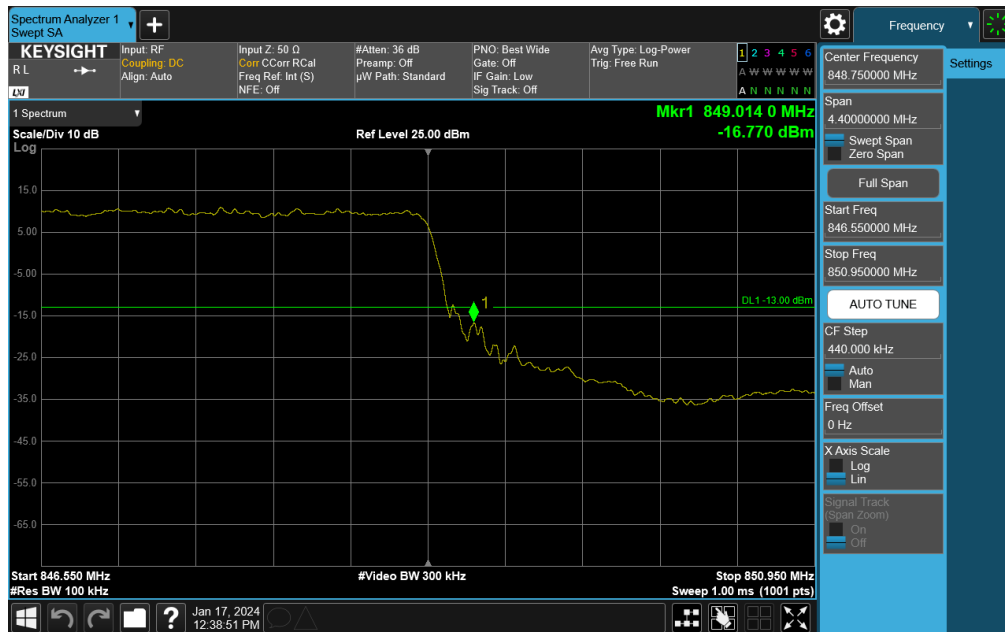
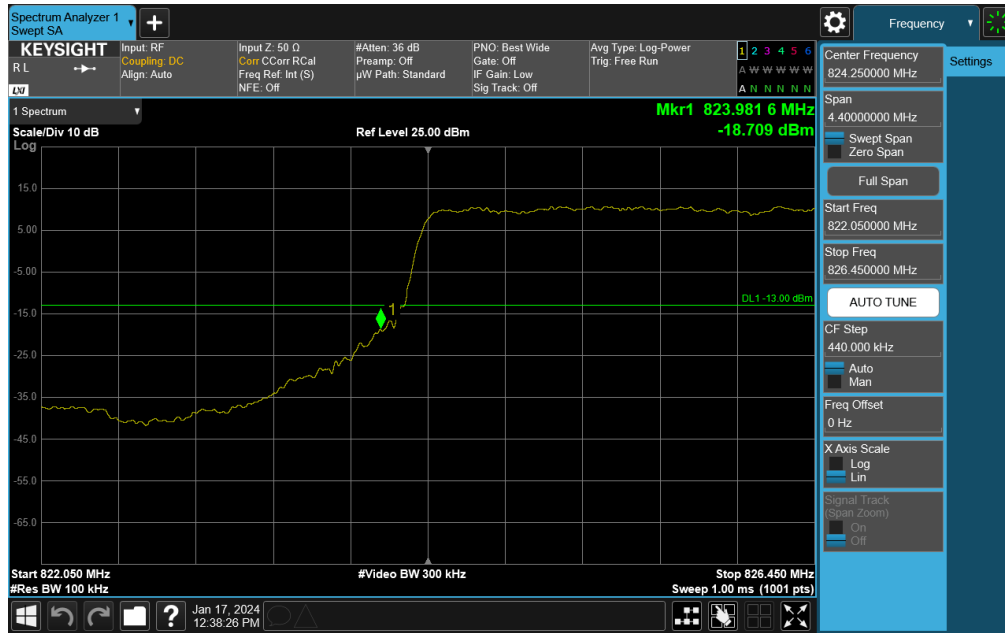
Plot 7-94. Lower BE Plot (ULCA – LTE Band 5 – (10 + 10)MHz QPSK – Full RB Configuration)



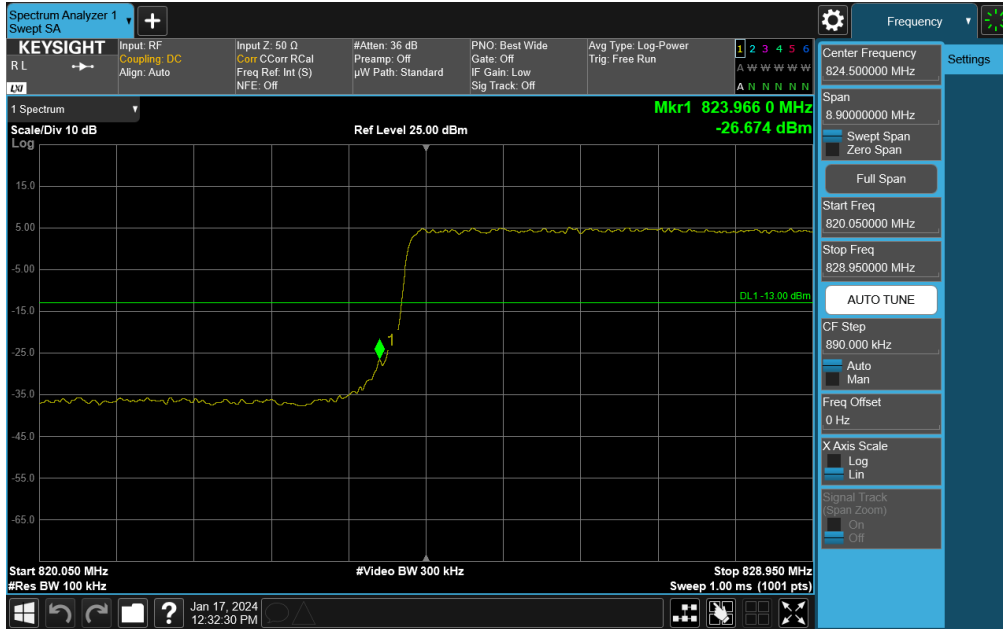
Plot 7-95. Upper BE Plot (ULCA – LTE Band 5 - (10 + 10)MHz QPSK – Full RB Configuration)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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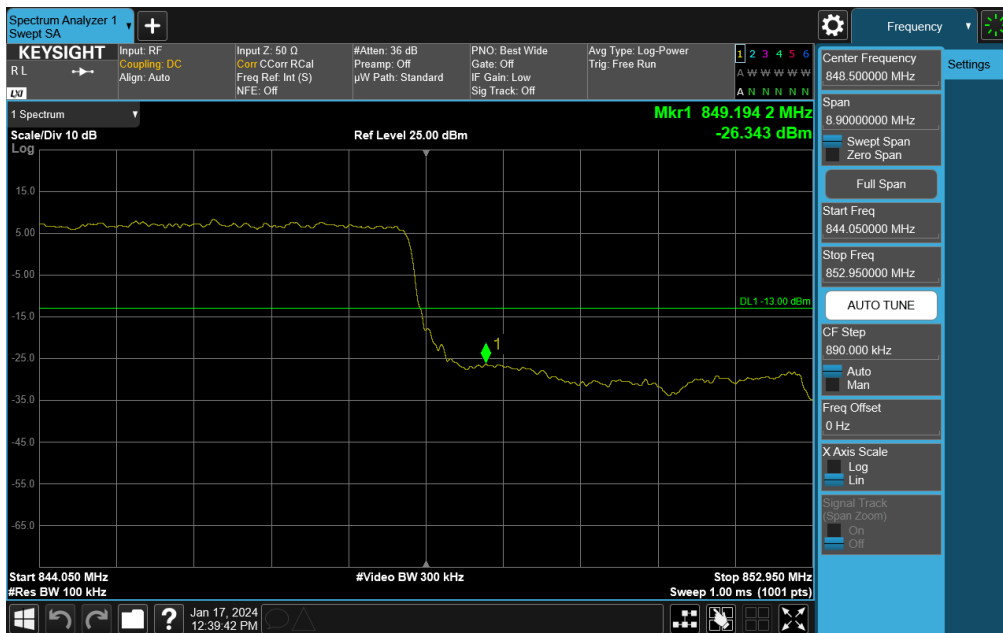
NR Band n26



FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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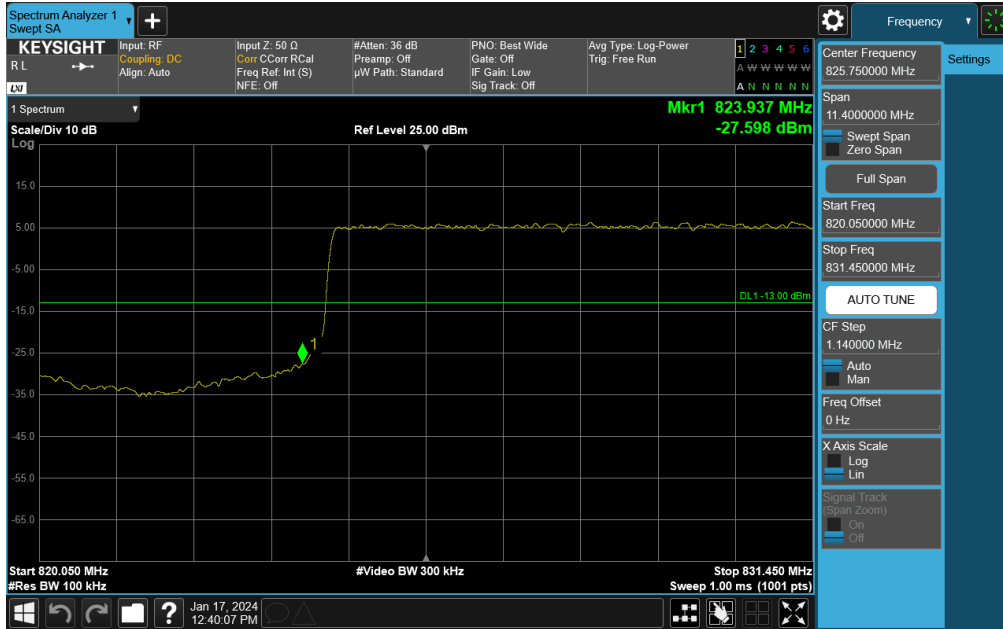


Plot 7-98. Lower BE Plot (NR Band n26 CP-OFDM QPSK – 10.0MHz - Full RB)

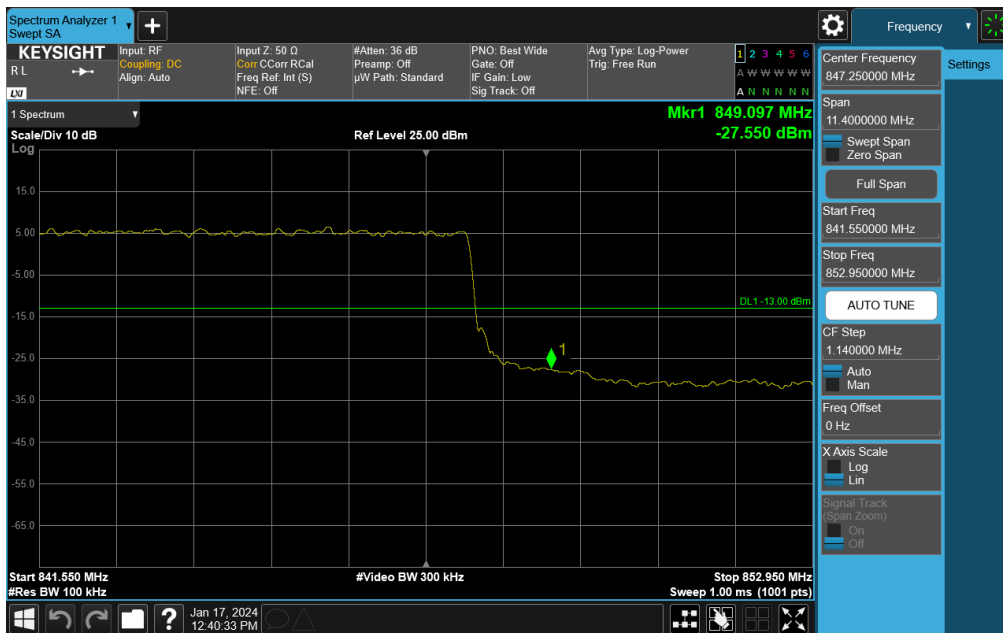


Plot 7-99. Upper BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 10.0MHz - Full RB)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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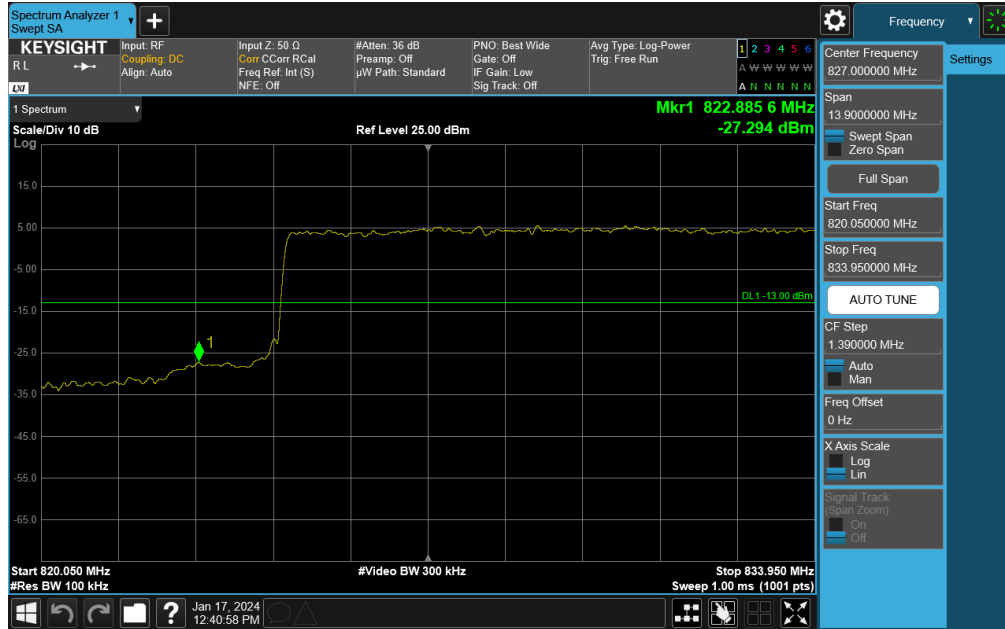


Plot 7-100. Lower BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

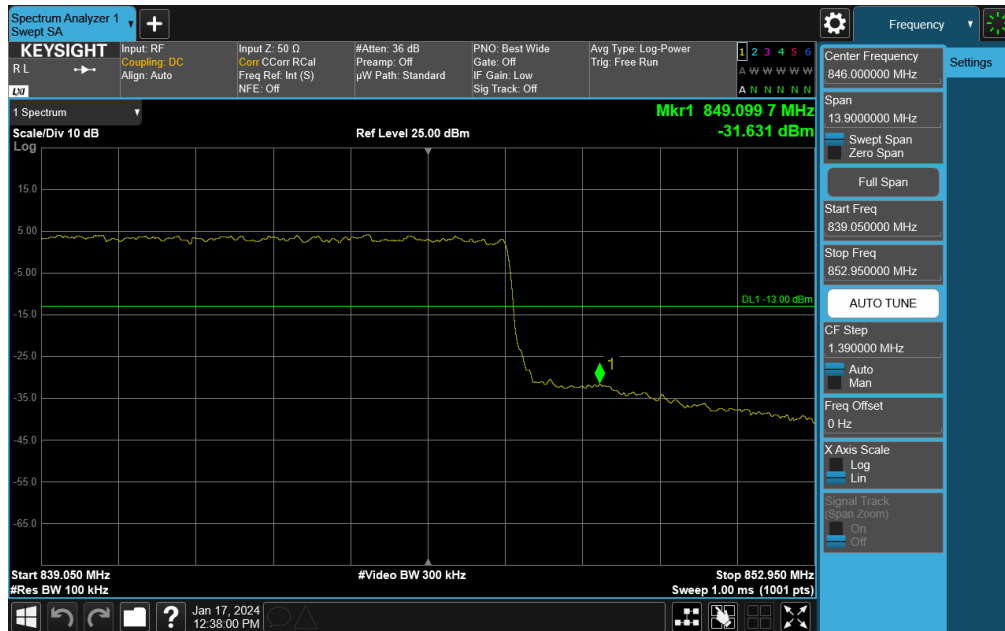


Plot 7-101. Upper BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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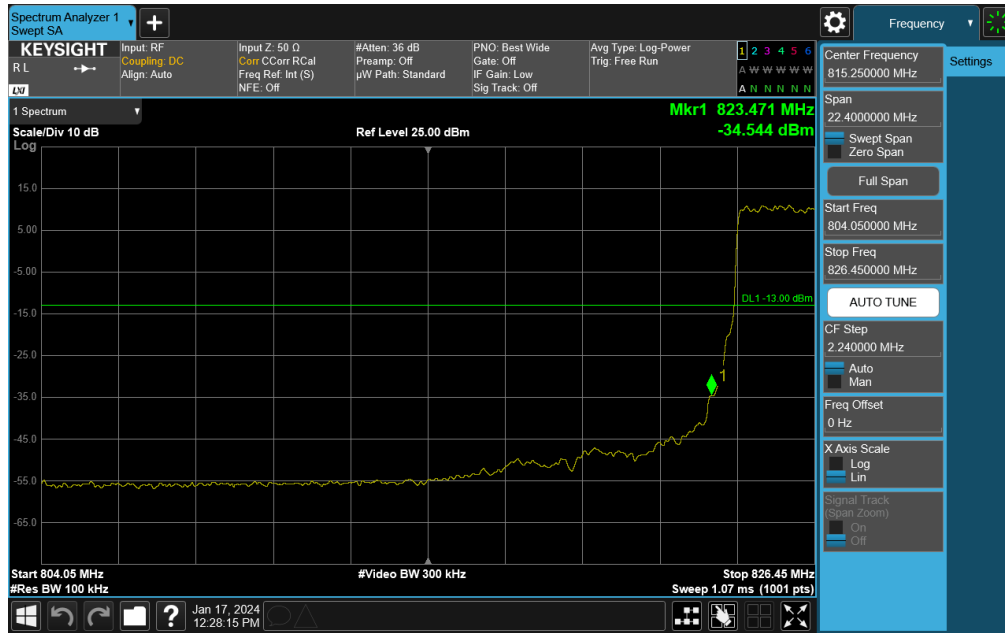
Plot 7-102. Lower BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 20.0MHz - Full RB)



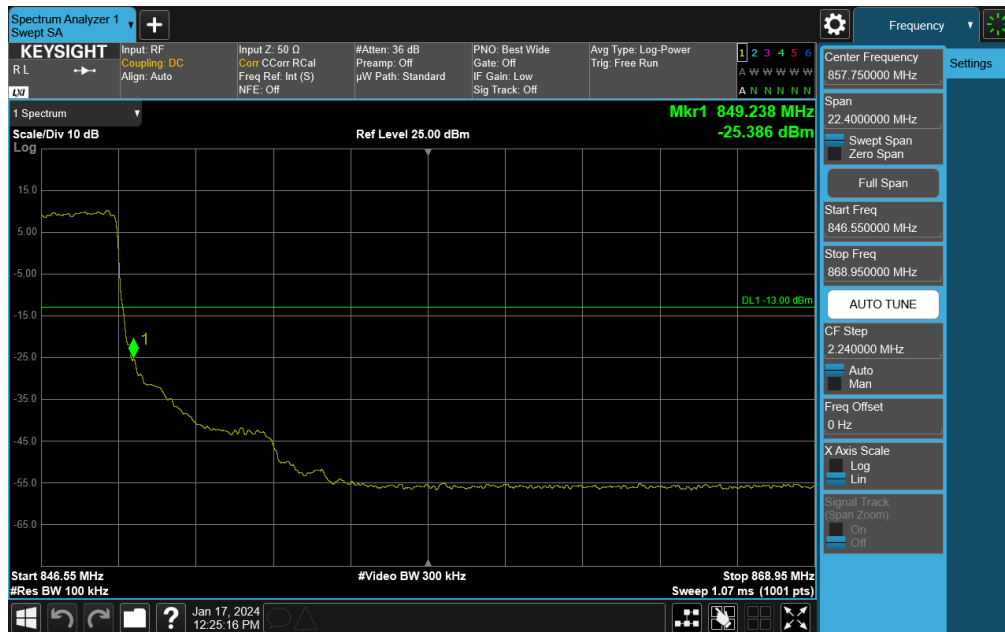
Plot 7-103. Upper BE Plot (NR Band n26 DFT-s-OFDM QPSK – 20.0MHz - Full RB)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n5

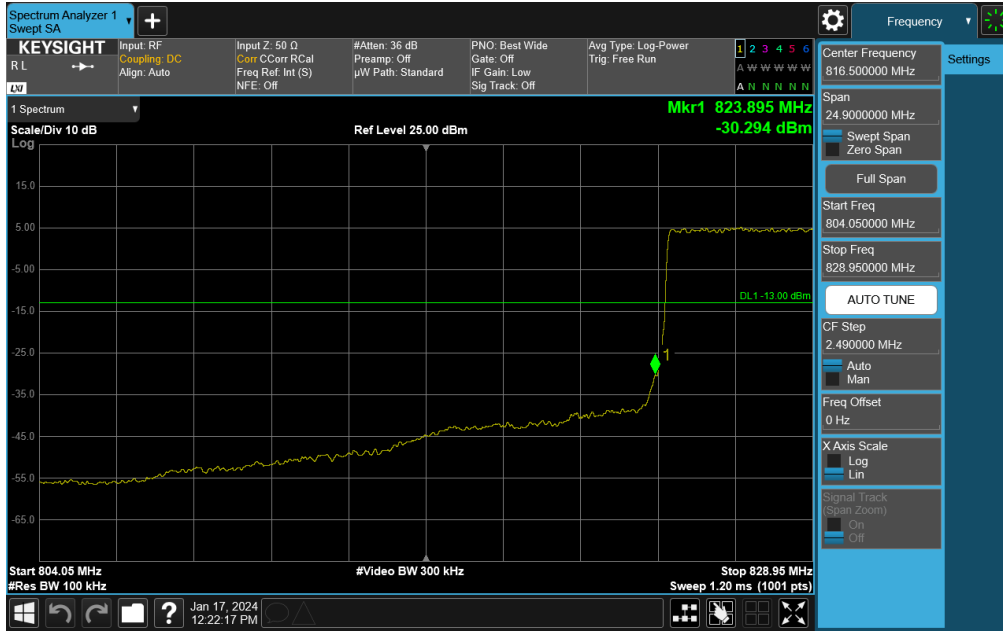


Plot 7-104. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 5.0MHz - Full RB)

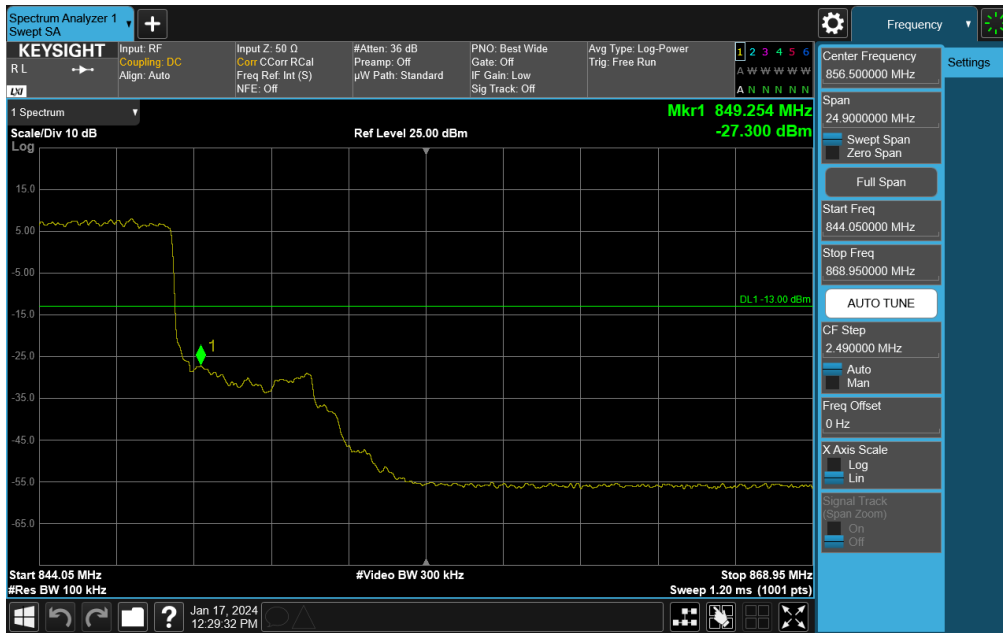


Plot 7-105. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 5.0MHz - Full RB)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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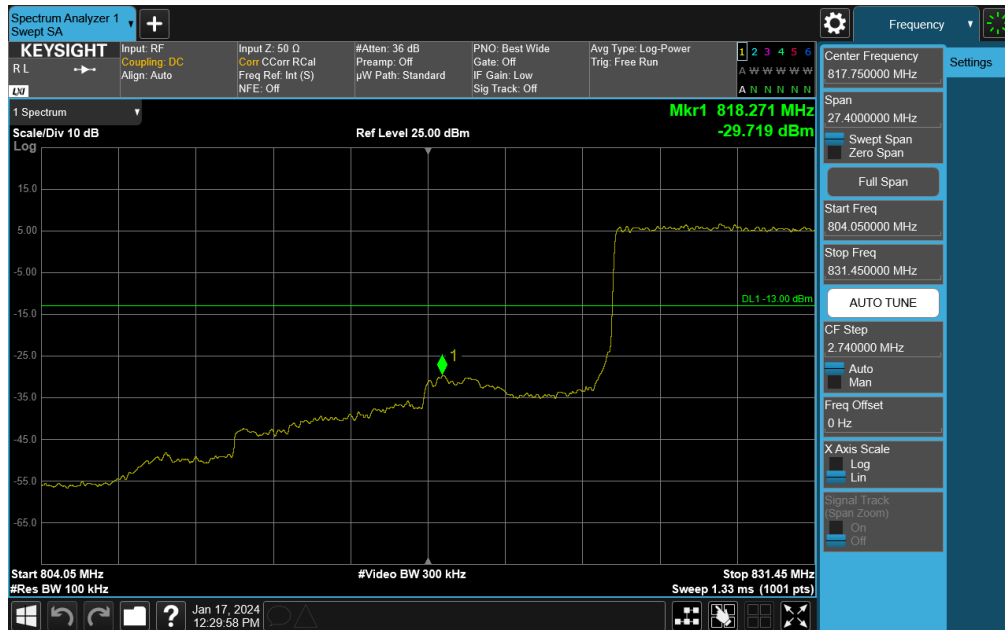


Plot 7-106. Lower BE Plot (NR Band n5 CP-OFDM QPSK – 10.0MHz - Full RB)

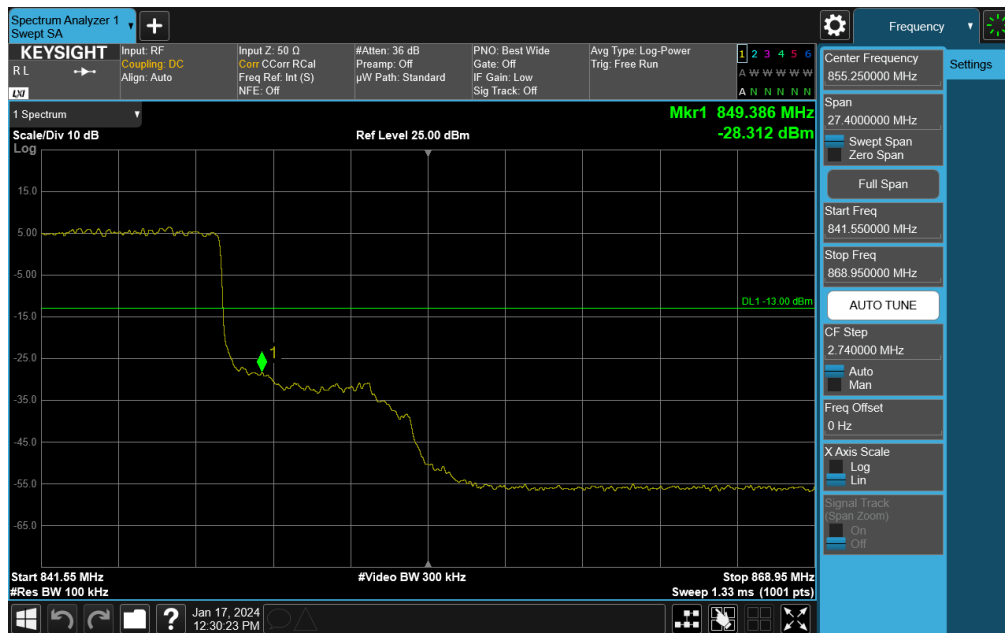


Plot 7-107. Upper BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 10.0MHz - Full RB)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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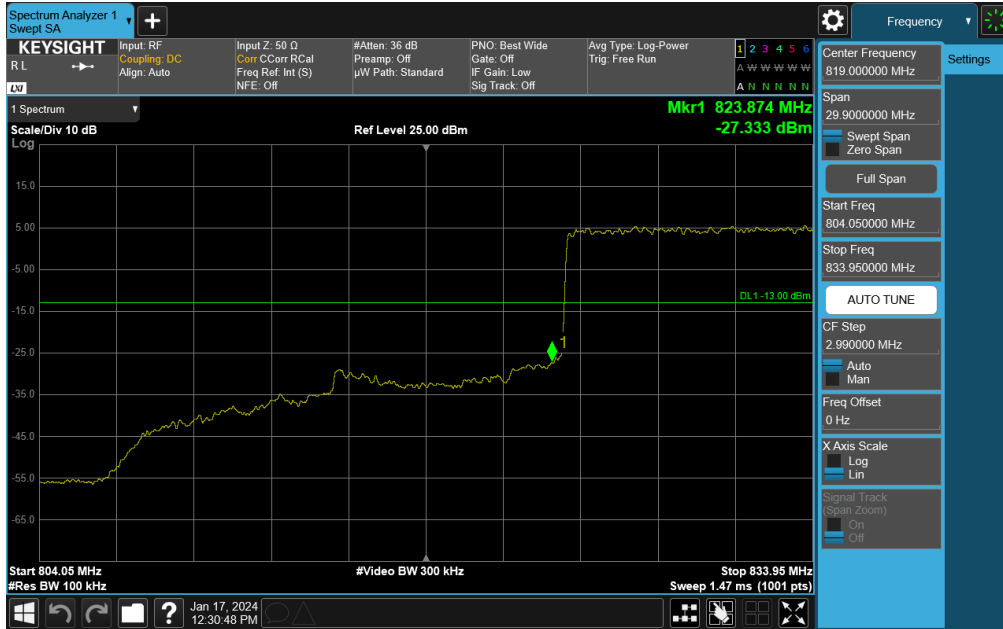


Plot 7-108. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

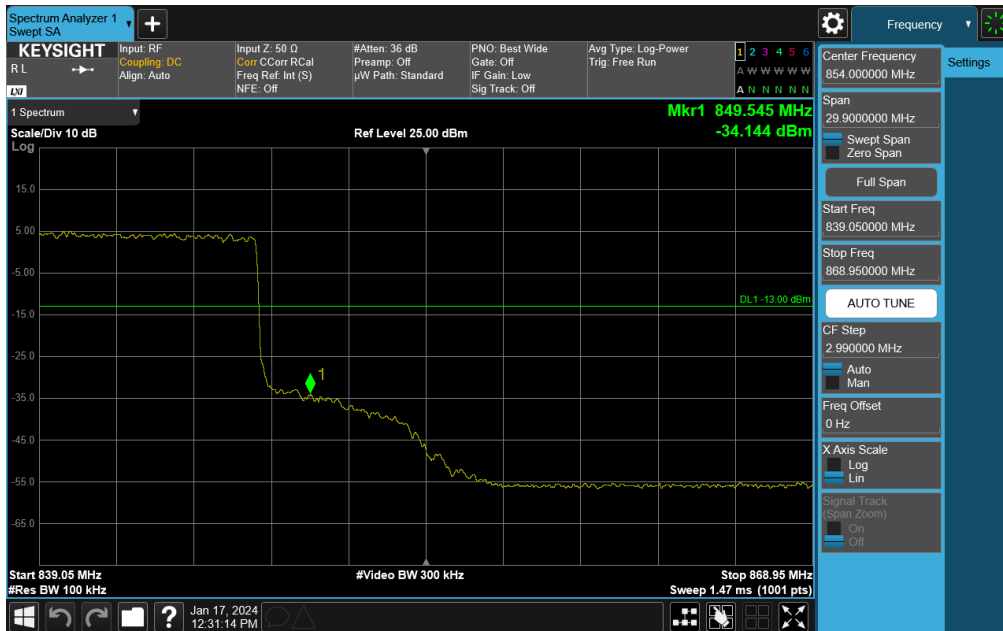


Plot 7-109. Upper BE Plot (NR Band n5 DFT-s-OFDM Q $\pi/2$ BPSK – 15.0MHz - Full RB)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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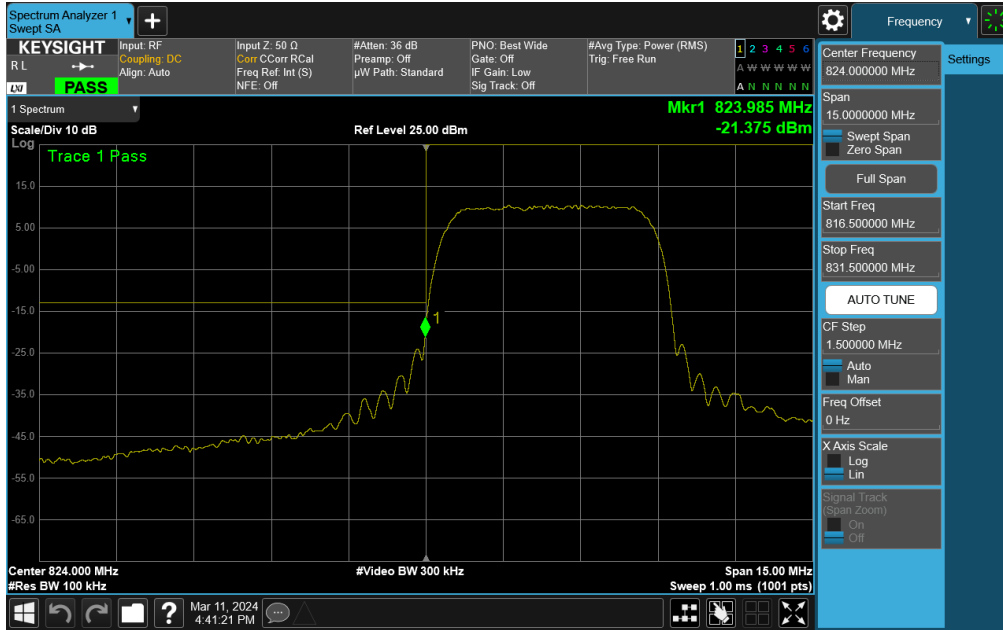
Plot 7-110. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 20.0MHz - Full RB)



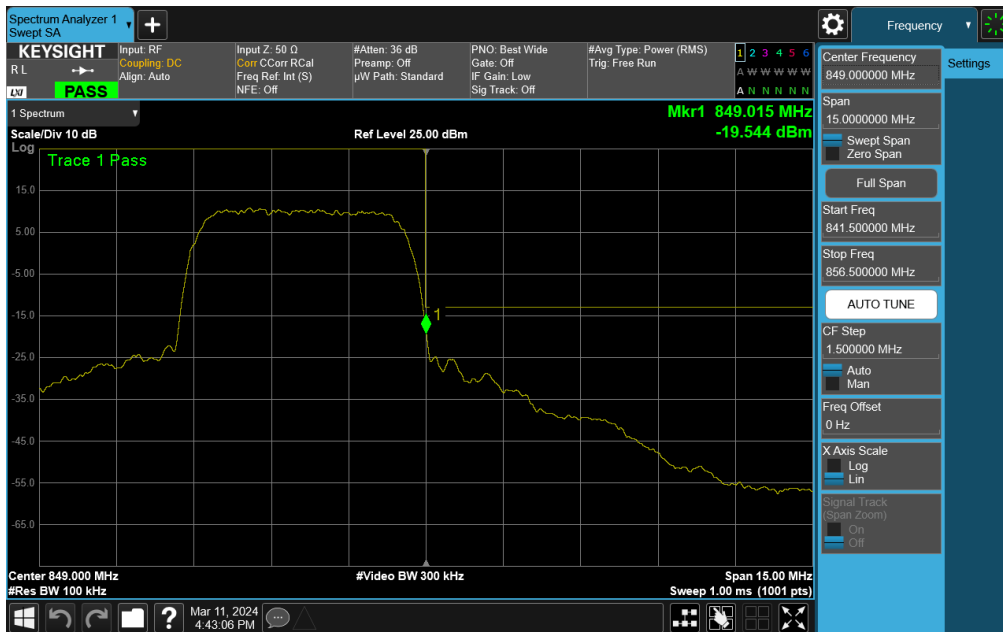
Plot 7-111. Upper BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 20.0MHz - Full RB)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA Cell



Plot 7-112. Lower BE Plot (WCDMA Cell – Ch. 4132)



Plot 7-113. Upper BE Plot (WCDMA Cell – Ch. 4233)

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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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 from the conducted RF output power measured is:

$$ERP = P_{Meas} - LC + GT$$

Where:

ERP = Effective Radiated Power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm)

P_{Meas} = 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.

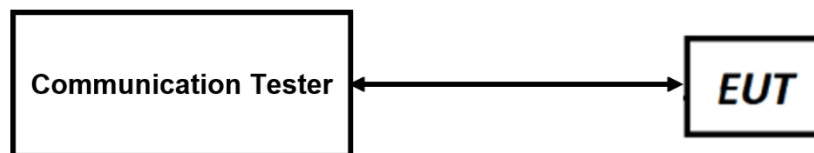




Figure 7-4. ERP/EIRP Measurement Setup

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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.

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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	-1.60	1 / 0	25.62	21.87	0.154	38.45	-16.58
		836.5	-1.60	1 / 5	25.45	21.70	0.148	38.45	-16.75
		848.3	-1.60	1 / 0	25.57	21.82	0.152	38.45	-16.63
	16-QAM	836.5	-1.60	1 / 0	24.67	20.92	0.124	38.45	-17.53
	64-QAM	848.3	-1.60	1 / 0	23.67	19.92	0.098	38.45	-18.53
	256-QAM	848.3	-1.60	1 / 0	20.66	16.91	0.049	38.45	-21.54
3 MHz	QPSK	825.5	-1.60	1 / 0	25.56	21.81	0.152	38.45	-16.64
		836.5	-1.60	1 / 0	25.53	21.78	0.151	38.45	-16.67
		847.5	-1.60	1 / 0	25.52	21.77	0.150	38.45	-16.68
	16-QAM	847.5	-1.60	1 / 0	24.97	21.22	0.132	38.45	-17.23
	64-QAM	825.5	-1.60	1 / 0	23.77	20.02	0.100	38.45	-18.43
	256-QAM	836.5	-1.60	1 / 0	20.76	17.01	0.050	38.45	-21.44
5 MHz	QPSK	826.5	-1.60	1 / 0	25.65	21.90	0.155	38.45	-16.55
		836.5	-1.60	1 / 0	25.62	21.87	0.154	38.45	-16.58
		846.5	-1.60	1 / 0	25.53	21.78	0.151	38.45	-16.67
	16-QAM	836.5	-1.60	1 / 0	24.94	21.19	0.132	38.45	-17.26
	64-QAM	846.5	-1.60	1 / 24	23.84	20.09	0.102	38.45	-18.36
	256-QAM	846.5	-1.60	1 / 0	20.78	17.03	0.050	38.45	-21.42
10 MHz	QPSK	829.0	-1.60	1 / 0	25.55	21.80	0.151	38.45	-16.65
		836.5	-1.60	1 / 25	25.59	21.84	0.153	38.45	-16.61
		844.0	-1.60	1 / 0	25.64	21.89	0.155	38.45	-16.56
	16-QAM	844.0	-1.60	1 / 25	25.01	21.26	0.134	38.45	-17.19
	64-QAM	836.5	-1.60	1 / 0	23.79	20.04	0.101	38.45	-18.41
	256-QAM	844.0	-1.60	1 / 0	20.71	16.96	0.050	38.45	-21.49


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

FCC ID: BCGA2837	 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	-1.60	1 / 0	25.53	21.78	0.151	38.45	-16.67
		836.5	-1.60	1 / 0	25.42	21.67	0.147	38.45	-16.78
		844.0	-1.60	1 / 0	25.48	21.73	0.149	38.45	-16.72
	16-QAM	836.5	-1.60	1 / 0	24.60	20.85	0.122	38.45	-17.60
	64-QAM	844.0	-1.60	1 / 0	23.64	19.89	0.097	38.45	-18.56
	256-QAM	844.0	-1.60	1 / 0	20.52	16.77	0.048	38.45	-21.68
3 MHz	QPSK	829.0	-1.60	1 / 0	25.49	21.74	0.149	38.45	-16.71
		836.5	-1.60	1 / 0	25.33	21.58	0.144	38.45	-16.87
		844.0	-1.60	1 / 0	25.53	21.78	0.151	38.45	-16.67
	16-QAM	844.0	-1.60	1 / 0	24.80	21.05	0.127	38.45	-17.40
	64-QAM	836.5	-1.60	1 / 0	23.58	19.83	0.096	38.45	-18.62
	256-QAM	844.0	-1.60	1 / 0	20.55	16.80	0.048	38.45	-21.65
5 MHz	QPSK	829.0	-1.60	1 / 0	25.56	21.81	0.152	38.45	-16.64
		836.5	-1.60	1 / 0	25.49	21.74	0.149	38.45	-16.71
		844.0	-1.60	1 / 0	25.41	21.66	0.147	38.45	-16.79
	16-QAM	844.0	-1.60	1 / 0	24.76	21.01	0.126	38.45	-17.44
	64-QAM	836.5	-1.60	1 / 0	23.62	19.87	0.097	38.45	-18.58
	256-QAM	844.0	-1.60	1 / 0	20.61	16.86	0.049	38.45	-21.59
10 MHz	QPSK	829.0	-1.60	1 / 0	25.64	21.89	0.155	38.45	-16.56
		836.5	-1.60	1 / 49	25.40	21.65	0.146	38.45	-16.80
		844.0	-1.60	1 / 0	25.43	21.68	0.147	38.45	-16.77
	16-QAM	844.0	-1.60	1 / 25	24.78	21.03	0.127	38.45	-17.42
	64-QAM	829.0	-1.60	1 / 25	23.57	19.82	0.096	38.45	-18.63
	256-QAM	844.0	-1.60	1 / 0	20.59	16.84	0.048	38.45	-21.61

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

FCC ID: BCGA2837	 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	25.62	-1.60	21.87	0.154	38.45	-16.58
				20475	831.5	1	49		20574	841.4	1	0	25.56	-1.60	21.81	0.152	38.45	-16.64
				20600	844.0	1	0		20501	834.1	1	49	25.49	-1.60	21.74	0.149	38.45	-16.71
			QPSK	20450	829	50	0	QPSK	20549	838.9	50	0	24.69	-1.60	20.94	0.124	38.45	-17.51
				16-QAM	20450	829	50		0	16-QAM	20549	838.9	50	0	23.54	-1.60	19.79	0.095
			64-QAM	20450	829	50	0	64-QAM	20549	838.9	50	0	23.21	-1.60	19.46	0.088	38.45	-18.99
				256-QAM	20450	829	50		0	256-QAM	20549	838.9	50	0	21.16	-1.60	17.41	0.055

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

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	π/2 BPSK	829.0	-1.60	1 / 12	25.43	21.68	0.147	38.45	-16.77
		836.5	-1.60	1 / 12	25.44	21.69	0.147	38.45	-16.76
		844.0	-1.60	1 / 12	25.46	21.71	0.148	38.45	-16.74
	QPSK	829.0	-1.60	1 / 23	25.57	21.82	0.152	38.45	-16.63
		836.5	-1.60	1 / 12	25.53	21.78	0.151	38.45	-16.67
		844.0	-1.60	1 / 12	25.50	21.75	0.150	38.45	-16.70
	16-QAM	836.5	-1.60	1 / 12	24.45	20.70	0.118	38.45	-17.75
64-QAM	829.0	-1.60	1 / 12	23.05	19.30	0.085	38.45	-19.15	
256-QAM	836.5	-1.60	1 / 12	21.17	17.42	0.055	38.45	-21.03	
10 MHz	π/2 BPSK	829.0	-1.60	1 / 25	25.53	21.78	0.151	38.45	-16.67
		836.5	-1.60	1 / 50	25.53	21.78	0.151	38.45	-16.67
		844.0	-1.60	1 / 25	25.56	21.81	0.152	38.45	-16.64
	QPSK	829.0	-1.60	1 / 25	25.52	21.77	0.150	38.45	-16.69
		836.5	-1.60	1 / 50	25.52	21.77	0.150	38.45	-16.68
		844.0	-1.60	1 / 25	25.48	21.73	0.149	38.45	-16.72
	16-QAM	844.0	-1.60	1 / 1	24.66	20.91	0.123	38.45	-17.54
64-QAM	829.0	-1.60	1 / 25	23.08	19.33	0.086	38.45	-19.12	
256-QAM	844.0	-1.60	1 / 25	21.01	17.26	0.053	38.45	-21.19	
15 MHz	π/2 BPSK	831.5	-1.60	1 / 1	25.63	21.88	0.154	38.45	-16.57
		836.5	-1.60	1 / 77	25.56	21.81	0.152	38.45	-16.64
		841.5	-1.60	1 / 77	25.61	21.86	0.153	38.45	-16.59
	QPSK	831.5	-1.60	1 / 1	25.69	21.94	0.156	38.45	-16.51
		836.5	-1.60	1 / 77	25.63	21.88	0.154	38.45	-16.57
		841.5	-1.60	1 / 77	25.57	21.82	0.152	38.45	-16.63
	16-QAM	841.5	-1.60	1 / 1	24.77	21.02	0.126	38.45	-17.43
64-QAM	836.5	-1.60	1 / 77	23.38	19.63	0.092	38.45	-18.82	
256-QAM	841.5	-1.60	1 / 1	21.30	17.55	0.057	38.45	-20.90	
20 MHz	π/2 BPSK	834.0	-1.60	1 / 104	25.64	21.89	0.155	38.45	-16.56
		836.5	-1.60	1 / 50	25.68	21.93	0.156	38.45	-16.52
		839.0	-1.60	1 / 50	25.59	21.84	0.153	38.45	-16.61
	QPSK	834.0	-1.60	1 / 1	25.66	21.91	0.155	38.45	-16.54
		836.5	-1.60	1 / 1	25.61	21.86	0.154	38.45	-16.59
		839.0	-1.60	1 / 1	25.58	21.83	0.152	38.45	-16.62
	16-QAM	836.5	-1.60	1 / 104	24.79	21.04	0.127	38.45	-17.41
64-QAM	836.5	-1.60	1 / 1	23.21	19.46	0.088	38.45	-18.99	
256-QAM	834.0	-1.60	1 / 104	21.23	17.48	0.056	38.45	-20.97	


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

FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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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	π/2 BPSK	829.0	-1.60	1 / 1	25.70	21.95	0.157	38.45	-16.50
		836.5	-1.60	1 / 1	25.48	21.73	0.149	38.45	-16.72
		844.0	-1.60	1 / 23	25.30	21.55	0.143	38.45	-16.90
	QPSK	829.0	-1.60	1 / 1	25.55	21.80	0.151	38.45	-16.65
		836.5	-1.60	1 / 23	25.36	21.61	0.145	38.45	-16.84
		844.0	-1.60	1 / 1	25.44	21.69	0.147	38.45	-16.76
	16-QAM	836.5	-1.60	1 / 23	24.65	20.90	0.123	38.45	-17.55
64-QAM	829.0	-1.60	1 / 1	23.26	19.51	0.089	38.45	-18.94	
256-QAM	829.0	-1.60	1 / 23	21.16	17.41	0.055	38.45	-21.04	
10 MHz	π/2 BPSK	829.0	-1.60	1 / 25	25.42	21.67	0.147	38.45	-16.78
		836.5	-1.60	1 / 1	25.39	21.64	0.146	38.45	-16.81
		844.0	-1.60	1 / 25	25.37	21.62	0.145	38.45	-16.83
	QPSK	829.0	-1.60	1 / 1	25.57	21.82	0.152	38.45	-16.63
		836.5	-1.60	1 / 50	25.46	21.71	0.148	38.45	-16.74
		844.0	-1.60	1 / 1	25.46	21.71	0.148	38.45	-16.75
	16-QAM	829.0	-1.60	1 / 1	24.62	20.87	0.122	38.45	-17.58
64-QAM	844.0	-1.60	1 / 25	23.19	19.44	0.088	38.45	-19.01	
256-QAM	836.5	-1.60	1 / 1	21.14	17.39	0.055	38.45	-21.06	
15 MHz	π/2 BPSK	831.5	-1.60	1 / 1	25.57	21.82	0.152	38.45	-16.63
		836.5	-1.60	1 / 1	25.56	21.81	0.152	38.45	-16.64
		841.5	-1.60	1 / 36	25.60	21.85	0.153	38.45	-16.60
	QPSK	831.5	-1.60	1 / 1	25.58	21.83	0.152	38.45	-16.62
		836.5	-1.60	1 / 1	25.57	21.82	0.152	38.45	-16.64
		841.5	-1.60	1 / 1	25.51	21.76	0.150	38.45	-16.69
	16-QAM	836.5	-1.60	1 / 1	24.85	21.10	0.129	38.45	-17.35
64-QAM	841.5	-1.60	1 / 1	23.26	19.51	0.089	38.45	-18.95	
256-QAM	836.5	-1.60	1 / 1	21.43	17.68	0.059	38.45	-20.77	
20 MHz	π/2 BPSK	834.0	-1.60	1 / 1	25.68	21.93	0.156	38.45	-16.52
		836.5	-1.60	1 / 1	25.60	21.85	0.153	38.45	-16.60
		839.0	-1.60	1 / 1	25.61	21.86	0.154	38.45	-16.59
	QPSK	834.0	-1.60	1 / 1	25.66	21.91	0.155	38.45	-16.55
		836.5	-1.60	1 / 1	25.59	21.84	0.153	38.45	-16.62
		839.0	-1.60	1 / 50	25.55	21.80	0.151	38.45	-16.65
	16-QAM	836.5	-1.60	1 / 104	24.69	20.94	0.124	38.45	-17.51
64-QAM	839.0	-1.60	1 / 1	23.12	19.37	0.086	38.45	-19.08	
256-QAM	834.0	-1.60	1 / 1	21.18	17.43	0.055	38.45	-21.02	


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

FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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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	25.69	-1.60	21.94	0.156	38.45	-16.51
836.60	WCDMA850	25.56	-1.60	21.81	0.152	38.45	-16.64
846.60	WCDMA850	25.70	-1.60	21.95	0.157	38.45	-16.50

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


FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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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	0.00	1 / 0	23.55	21.40	0.138	38.45	-17.05
		836.5	0.00	1 / 0	23.51	21.36	0.137	38.45	-17.09
		848.3	0.00	1 / 0	23.63	21.48	0.141	38.45	-16.97
	16-QAM	836.5	0.00	1 / 3	22.77	20.62	0.115	38.45	-17.83
	64-QAM	824.7	0.00	1 / 0	21.86	19.71	0.094	38.45	-18.74
	256-QAM	848.3	0.00	1 / 0	18.69	16.54	0.045	38.45	-21.91
3 MHz	QPSK	825.5	0.00	1 / 0	23.54	21.39	0.138	38.45	-17.06
		836.5	0.00	1 / 0	23.56	21.41	0.138	38.45	-17.04
		847.5	0.00	1 / 7	23.52	21.37	0.137	38.45	-17.08
	16-QAM	847.5	0.00	1 / 0	23.11	20.96	0.125	38.45	-17.49
	64-QAM	847.5	0.00	1 / 0	21.76	19.61	0.091	38.45	-18.84
	256-QAM	847.5	0.00	1 / 0	18.86	16.71	0.047	38.45	-21.74
5 MHz	QPSK	826.5	0.00	1 / 0	23.77	21.62	0.145	38.45	-16.83
		836.5	0.00	1 / 0	23.67	21.52	0.142	38.45	-16.93
		846.5	0.00	1 / 0	23.53	21.38	0.137	38.45	-17.07
	16-QAM	836.5	0.00	1 / 0	22.90	20.75	0.119	38.45	-17.70
	64-QAM	846.5	0.00	1 / 0	21.90	19.75	0.094	38.45	-18.70
	256-QAM	846.5	0.00	1 / 0	18.86	16.71	0.047	38.45	-21.74
10 MHz	QPSK	829.0	0.00	1 / 0	23.49	21.34	0.136	38.45	-17.11
		836.5	0.00	1 / 49	23.52	21.37	0.137	38.45	-17.08
		844.0	0.00	1 / 25	23.64	21.49	0.141	38.45	-16.96
	16-QAM	844.0	0.00	1 / 49	23.06	20.91	0.123	38.45	-17.54
	64-QAM	829.0	0.00	1 / 49	21.73	19.58	0.091	38.45	-18.87
	256-QAM	836.5	0.00	1 / 0	18.75	16.60	0.046	38.45	-21.85


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

FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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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	0.00	1 / 0	23.62	21.47	0.140	38.45	-16.98
		836.5	0.00	1 / 5	23.66	21.51	0.142	38.45	-16.94
		844.0	0.00	1 / 0	23.73	21.58	0.144	38.45	-16.87
	16-QAM	836.5	0.00	1 / 5	22.95	20.80	0.120	38.45	-17.65
	64-QAM	844.0	0.00	1 / 0	21.93	19.78	0.095	38.45	-18.67
	256-QAM	844.0	0.00	1 / 3	18.78	16.63	0.046	38.45	-21.82
3 MHz	QPSK	829.0	0.00	1 / 0	23.67	21.52	0.142	38.45	-16.93
		836.5	0.00	1 / 0	23.58	21.43	0.139	38.45	-17.02
		844.0	0.00	1 / 0	23.59	21.44	0.139	38.45	-17.01
	16-QAM	844.0	0.00	1 / 0	23.03	20.88	0.122	38.45	-17.57
	64-QAM	829.0	0.00	1 / 0	21.90	19.75	0.094	38.45	-18.70
	256-QAM	844.0	0.00	1 / 0	18.85	16.70	0.047	38.45	-21.75
5 MHz	QPSK	829.0	0.00	1 / 0	23.72	21.57	0.144	38.45	-16.88
		836.5	0.00	1 / 0	23.72	21.57	0.144	38.45	-16.88
		844.0	0.00	1 / 0	23.58	21.43	0.139	38.45	-17.02
	16-QAM	836.5	0.00	1 / 0	23.07	20.92	0.124	38.45	-17.53
	64-QAM	836.5	0.00	1 / 0	21.98	19.83	0.096	38.45	-18.62
	256-QAM	836.5	0.00	1 / 0	18.67	16.52	0.045	38.45	-21.93
		844.0	0.00	1 / 0	18.67	16.52	0.045	38.45	-21.93
10 MHz	QPSK	829.0	0.00	1 / 0	23.61	21.46	0.140	38.45	-16.99
		836.5	0.00	1 / 25	23.65	21.50	0.141	38.45	-16.95
		844.0	0.00	1 / 25	23.71	21.56	0.143	38.45	-16.89
	16-QAM	844.0	0.00	1 / 25	23.08	20.93	0.124	38.45	-17.52
	64-QAM	829.0	0.00	1 / 49	21.87	19.72	0.094	38.45	-18.73
	256-QAM	844.0	0.00	1 / 49	18.82	16.67	0.046	38.45	-21.78

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

FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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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	23.81	0.00	21.46	0.140	38.45	-16.99
				20475	831.5	1	49		20574	841.4	1	0	23.72	0.00	21.57	0.144	38.45	-16.88
				20600	844.0	1	0		20501	834.1	1	49	23.83	0.00	21.68	0.147	38.45	-16.77
			QPSK	20600	844	50	0	QPSK	20501	834.1	50	0	22.77	0.00	20.62	0.115	38.45	-17.83
				16-QAM	20600	844	50		0	16-QAM	20501	834.1	50	0	21.62	0.00	19.47	0.089
			64-QAM	20600	844	50	0	64-QAM	20501	834.1	50	0	21.31	0.00	19.16	0.082	38.45	-19.29
				256-QAM	20600	844	50		0	256-QAM	20501	834.1	50	0	19.46	0.00	17.31	0.054

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

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	π/2 BPSK	829.0	0.00	1 / 12	23.57	21.42	0.139	38.45	-17.03
		836.5	0.00	1 / 12	23.61	21.46	0.140	38.45	-16.99
		844.0	0.00	1 / 1	23.56	21.41	0.138	38.45	-17.04
	QPSK	829.0	0.00	1 / 23	23.60	21.45	0.140	38.45	-17.00
		836.5	0.00	1 / 12	23.62	21.47	0.140	38.45	-16.98
		844.0	0.00	1 / 12	23.66	21.51	0.141	38.45	-16.94
	16-QAM	836.5	0.00	1 / 23	22.73	20.58	0.114	38.45	-17.87
64-QAM	844.0	0.00	1 / 23	21.27	19.12	0.082	38.45	-19.33	
256-QAM	844.0	0.00	1 / 12	19.37	17.22	0.053	38.45	-21.23	
10 MHz	π/2 BPSK	829.0	0.00	1 / 25	23.60	21.45	0.140	38.45	-17.00
		836.5	0.00	1 / 25	23.64	21.49	0.141	38.45	-16.96
		844.0	0.00	1 / 1	23.59	21.44	0.139	38.45	-17.02
	QPSK	829.0	0.00	1 / 25	23.64	21.49	0.141	38.45	-16.96
		836.5	0.00	1 / 1	23.74	21.59	0.144	38.45	-16.86
		844.0	0.00	1 / 50	23.66	21.51	0.142	38.45	-16.94
	16-QAM	829.0	0.00	1 / 25	22.81	20.66	0.116	38.45	-17.79
64-QAM	844.0	0.00	1 / 50	21.23	19.08	0.081	38.45	-19.37	
256-QAM	844.0	0.00	1 / 50	19.30	17.15	0.052	38.45	-21.30	
15 MHz	π/2 BPSK	831.5	0.00	1 / 1	23.84	21.69	0.147	38.45	-16.76
		836.5	0.00	1 / 77	23.79	21.64	0.146	38.45	-16.81
		841.5	0.00	1 / 77	23.78	21.63	0.145	38.45	-16.83
	QPSK	831.5	0.00	1 / 1	23.83	21.68	0.147	38.45	-16.77
		836.5	0.00	1 / 77	23.88	21.73	0.149	38.45	-16.72
		841.5	0.00	1 / 77	23.81	21.66	0.147	38.45	-16.79
	16-QAM	831.5	0.00	1 / 77	22.92	20.77	0.119	38.45	-17.68
64-QAM	836.5	0.00	1 / 77	21.31	19.16	0.082	38.45	-19.29	
256-QAM	841.5	0.00	1 / 77	19.37	17.22	0.053	38.45	-21.23	
20 MHz	π/2 BPSK	834.0	0.00	1 / 1	23.73	21.58	0.144	38.45	-16.87
		836.5	0.00	1 / 1	23.73	21.58	0.144	38.45	-16.87
		839.0	0.00	1 / 1	23.74	21.59	0.144	38.45	-16.87
	QPSK	834.0	0.00	1 / 104	23.76	21.61	0.145	38.45	-16.84
		836.5	0.00	1 / 104	23.79	21.64	0.146	38.45	-16.81
		839.0	0.00	1 / 104	23.88	21.73	0.149	38.45	-16.72
	16-QAM	839.0	0.00	1 / 104	22.97	20.82	0.121	38.45	-17.63
64-QAM	834.0	0.00	1 / 104	21.42	19.27	0.084	38.45	-19.19	
256-QAM	834.0	0.00	1 / 104	19.39	17.24	0.053	38.45	-21.21	


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

FCC ID: BCGA2837	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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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	π/2 BPSK	829.0	0.00	1 / 23	23.69	21.54	0.142	38.45	-16.92
		836.5	0.00	1 / 12	23.58	21.43	0.139	38.45	-17.02
		844.0	0.00	1 / 1	23.54	21.39	0.138	38.45	-17.06
	QPSK	829.0	0.00	1 / 1	23.76	21.61	0.145	38.45	-16.84
		836.5	0.00	1 / 1	23.87	21.72	0.149	38.45	-16.73
		844.0	0.00	1 / 1	23.63	21.48	0.141	38.45	-16.97
	16-QAM	829.0	0.00	1 / 12	22.87	20.72	0.118	38.45	-17.74
64-QAM	829.0	0.00	1 / 1	21.18	19.03	0.080	38.45	-19.42	
256-QAM	844.0	0.00	1 / 23	19.11	16.96	0.050	38.45	-21.50	
10 MHz	π/2 BPSK	829.0	0.00	1 / 1	23.62	21.47	0.140	38.45	-16.98
		836.5	0.00	1 / 25	23.53	21.38	0.137	38.45	-17.07
		844.0	0.00	1 / 1	23.45	21.30	0.135	38.45	-17.15
	QPSK	829.0	0.00	1 / 1	23.64	21.49	0.141	38.45	-16.96
		836.5	0.00	1 / 1	23.49	21.34	0.136	38.45	-17.11
		844.0	0.00	1 / 1	23.56	21.41	0.138	38.45	-17.04
	16-QAM	836.5	0.00	1 / 1	22.65	20.50	0.112	38.45	-17.95
64-QAM	829.0	0.00	1 / 25	21.30	19.15	0.082	38.45	-19.30	
256-QAM	829.0	0.00	1 / 50	19.24	17.09	0.051	38.45	-21.36	
15 MHz	π/2 BPSK	831.5	0.00	1 / 1	23.81	21.66	0.147	38.45	-16.79
		836.5	0.00	1 / 1	23.71	21.56	0.143	38.45	-16.89
		841.5	0.00	1 / 1	23.66	21.51	0.141	38.45	-16.95
	QPSK	831.5	0.00	1 / 1	23.86	21.71	0.148	38.45	-16.74
		836.5	0.00	1 / 1	23.72	21.57	0.144	38.45	-16.88
		841.5	0.00	1 / 1	23.64	21.49	0.141	38.45	-16.96
	16-QAM	831.5	0.00	1 / 36	22.78	20.63	0.116	38.45	-17.82
64-QAM	831.5	0.00	1 / 77	21.24	19.09	0.081	38.45	-19.36	
256-QAM	831.5	0.00	1 / 1	19.28	17.13	0.052	38.45	-21.32	
20 MHz	π/2 BPSK	834.0	0.00	1 / 1	23.75	21.60	0.145	38.45	-16.85
		836.5	0.00	1 / 1	23.75	21.60	0.145	38.45	-16.85
		839.0	0.00	1 / 1	23.74	21.59	0.144	38.45	-16.86
	QPSK	834.0	0.00	1 / 1	23.75	21.60	0.145	38.45	-16.85
		836.5	0.00	1 / 1	23.85	21.70	0.148	38.45	-16.75
		839.0	0.00	1 / 1	23.75	21.60	0.144	38.45	-16.86
	16-QAM	836.5	0.00	1 / 1	22.90	20.75	0.119	38.45	-17.70
64-QAM	839.0	0.00	1 / 1	21.38	19.23	0.084	38.45	-19.22	
256-QAM	836.5	0.00	1 / 1	19.34	17.19	0.052	38.45	-21.26	


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

FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-07.BCG	Test Dates: 12/20/2023 - 3/20/2024	EUT Type: Tablet Device
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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	23.88	0.00	21.73	0.149	38.45	-16.72
836.60	WCDMA850	23.82	0.00	21.67	0.147	38.45	-16.78
846.60	WCDMA850	23.90	0.00	21.75	0.150	38.45	-16.70

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.

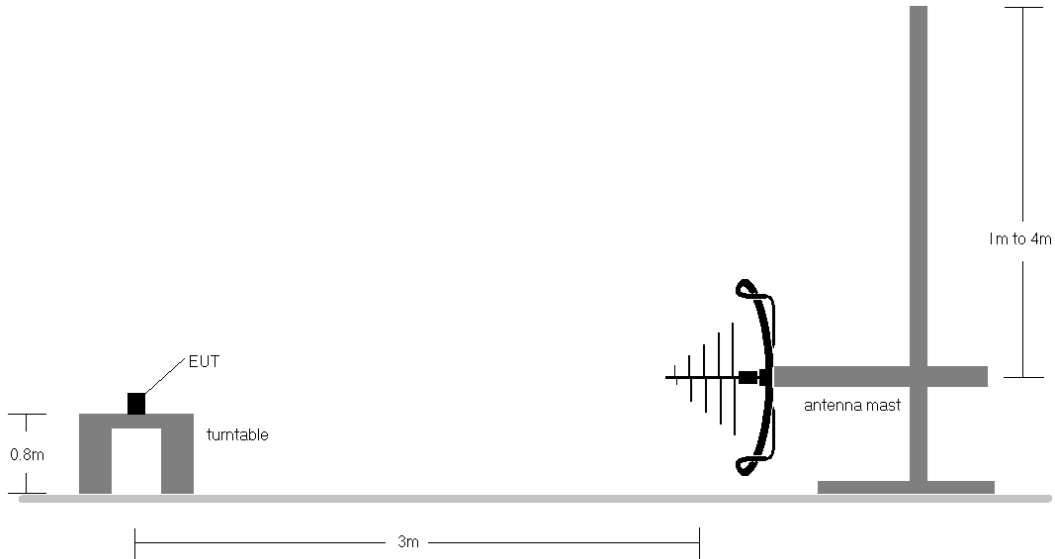


Figure 7-5. Test Instrument & Measurement Setup < 1GHz

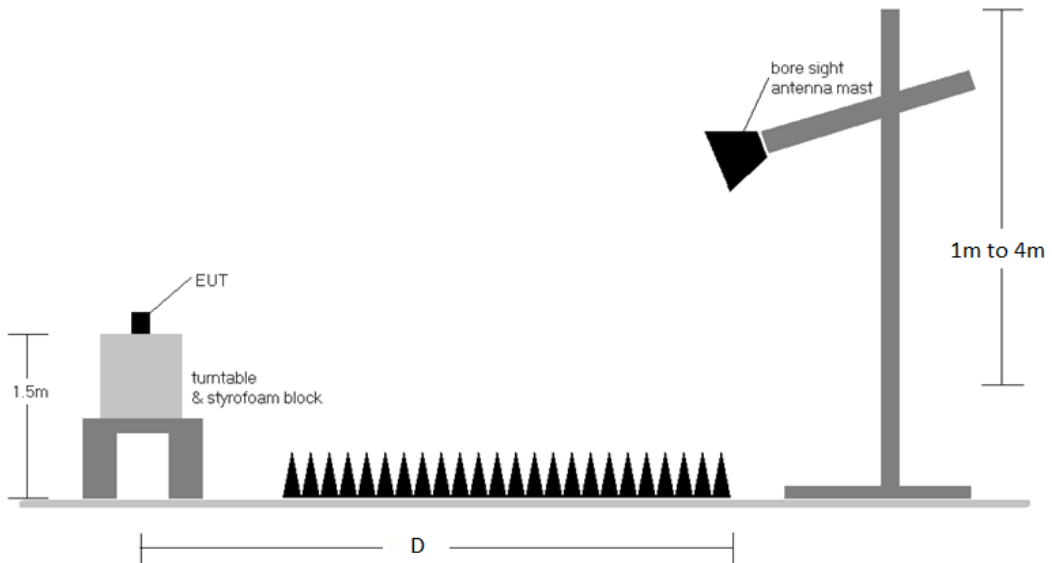




Figure 7-6. Test Instrument & Measurement Setup >1 GHz

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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.

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7.6.1 Antenna 3 – Radiated Spurious Emission Measurements

LTE Band 26/5

Bandwidth (MHz):	10
Frequency (MHz):	829.0
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]
1658.0	H	257	322	-69.19	-5.07	32.74	-62.52	-13.00	-49.52
2487.0	H	-	-	-74.59	-0.72	31.69	-63.57	-13.00	-50.57
3316.0	H	-	-	-75.70	1.66	32.96	-62.30	-13.00	-49.30
4145.0	H	-	-	-77.24	3.12	32.88	-62.37	-13.00	-49.37

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

Bandwidth (MHz):	10
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	250	320	-66.71	-5.03	35.26	-59.99	-13.00	-46.99
2509.5	H	-	-	-74.65	-0.67	31.68	-63.58	-13.00	-50.58
3346.0	H	-	-	-75.77	1.96	33.19	-62.07	-13.00	-49.07
4182.5	H	-	-	-77.02	2.93	32.91	-62.35	-13.00	-49.35

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

Bandwidth (MHz):	10
Frequency (MHz):	844.0
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]
1688.0	V	132	255	-66.19	-4.95	35.86	-59.40	-13.00	-46.40
2532.0	V	-	-	-74.66	-0.55	31.79	-63.47	-13.00	-50.47
3376.0	V	-	-	-76.08	2.05	32.97	-62.29	-13.00	-49.29
4220.0	V	-	-	-77.09	2.96	32.87	-62.38	-13.00	-49.38

Table 7-16. Antenna 3 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	-	-	-72.28	-5.07	29.65	-65.61	-13.00	-52.61
2487.0	H	-	-	-74.03	-0.76	32.21	-63.05	-13.00	-50.05
3316.0	H	-	-	-75.49	1.80	33.31	-61.95	-13.00	-48.95

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

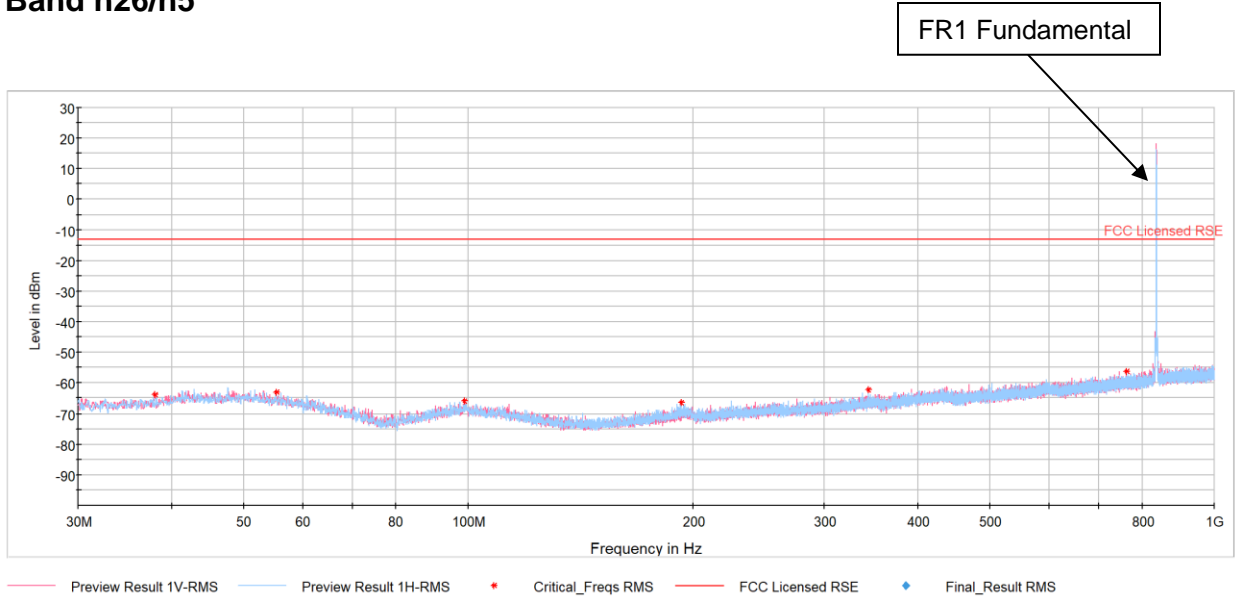
PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

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	-	-	-72.25	-5.03	29.72	-65.54	-13.00	-52.54
2532.0	H	-	-	-73.76	-0.67	32.57	-62.69	-13.00	-49.69
3376.0	H	-	-	-75.65	1.96	33.31	-61.94	-13.00	-48.94

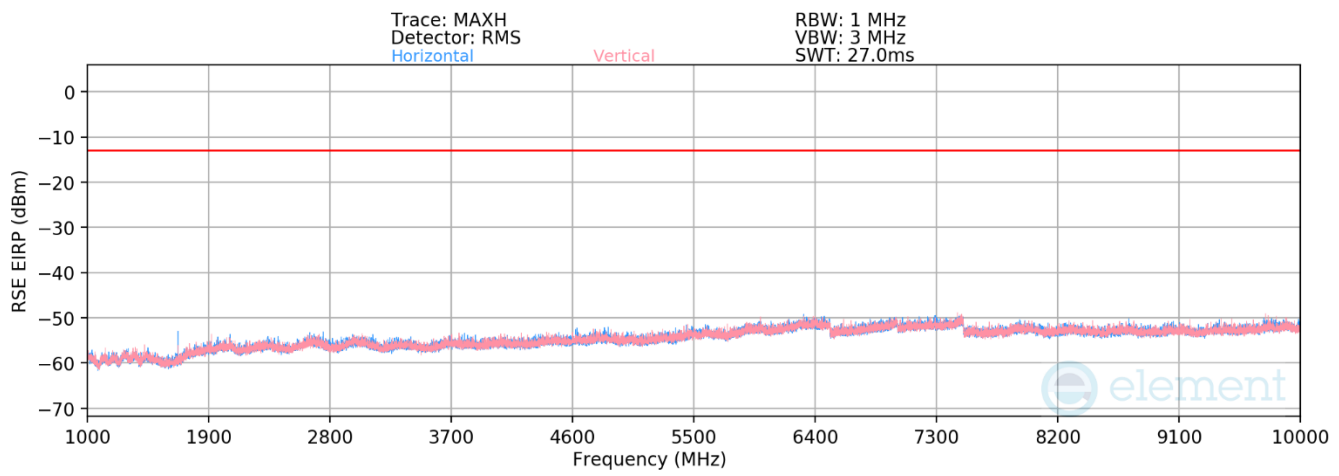
Table 7-18. Antenna 3 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26/n5



Plot 7-114. Antenna 3 Radiated Spurious Plot below 1GHz (NR Band n26/n5)



Plot 7-115. Antenna 3 Radiated Spurious Plot above 1GHz (NR Band n26/n5)

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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	312	108	-65.96	-5.03	36.01	-59.25	-13.00	-46.25
2502.0	H	-	-	-73.91	-0.76	32.33	-62.93	-13.00	-49.93
3336.0	H	-	-	-75.46	1.80	33.34	-61.92	-13.00	-48.92
4170.0	H	-	-	-77.13	2.93	32.80	-62.45	-13.00	-49.45

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	312	114	-65.08	-5.03	36.89	-58.37	-13.00	-45.37
2509.5	H	-	-	-74.05	-0.71	32.24	-63.02	-13.00	-50.02
3346.0	H	-	-	-75.65	1.96	33.31	-61.95	-13.00	-48.95
4182.5	H	-	-	-76.82	2.93	33.11	-62.15	-13.00	-49.15

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	305	114	-65.13	-5.03	36.84	-58.42	-13.00	-45.42
2517.0	H	-	-	-74.10	-0.67	32.22	-63.03	-13.00	-50.03
3356.0	H	-	-	-75.67	1.96	33.30	-61.96	-13.00	-48.96
4195.0	H	-	-	-76.73	2.89	33.17	-62.09	-13.00	-49.09

Table 7-21. Antenna 3 Radiated Spurious Data (NR Band n26/n5 – 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	H	-	-	-77.73	-4.11	25.16	-70.09	-13.00	-57.09
2479.2	H	-	-	-78.29	0.92	29.63	-65.63	-13.00	-52.63
3305.6	H	-	-	-79.00	2.25	30.25	-65.00	-13.00	-52.00

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	-	-	-77.63	-3.98	25.39	-69.87	-13.00	-56.87
2509.8	H	-	-	-78.56	1.10	29.54	-65.72	-13.00	-52.72
3346.4	H	-	-	-79.30	2.34	30.04	-65.21	-13.00	-52.21

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

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

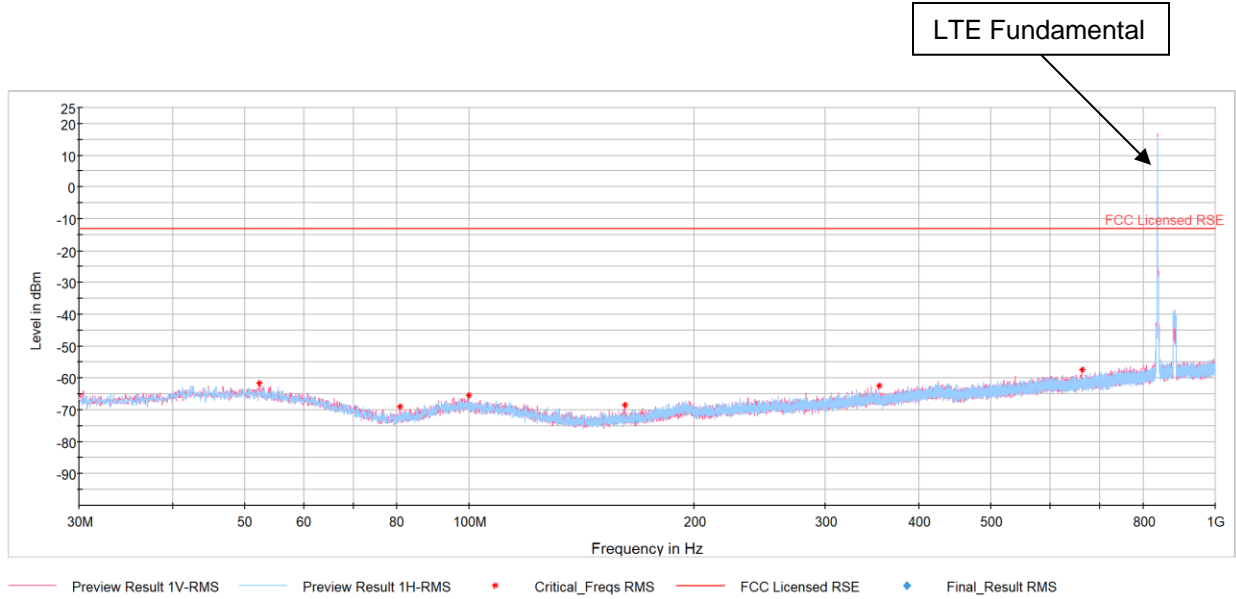
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	H	-	-	-77.88	-3.54	25.58	-69.67	-13.00	-56.67
2539.8	H	-	-	-78.45	1.30	29.85	-65.41	-13.00	-52.41
3386.4	H	-	-	-79.43	2.50	30.07	-65.19	-13.00	-52.19

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

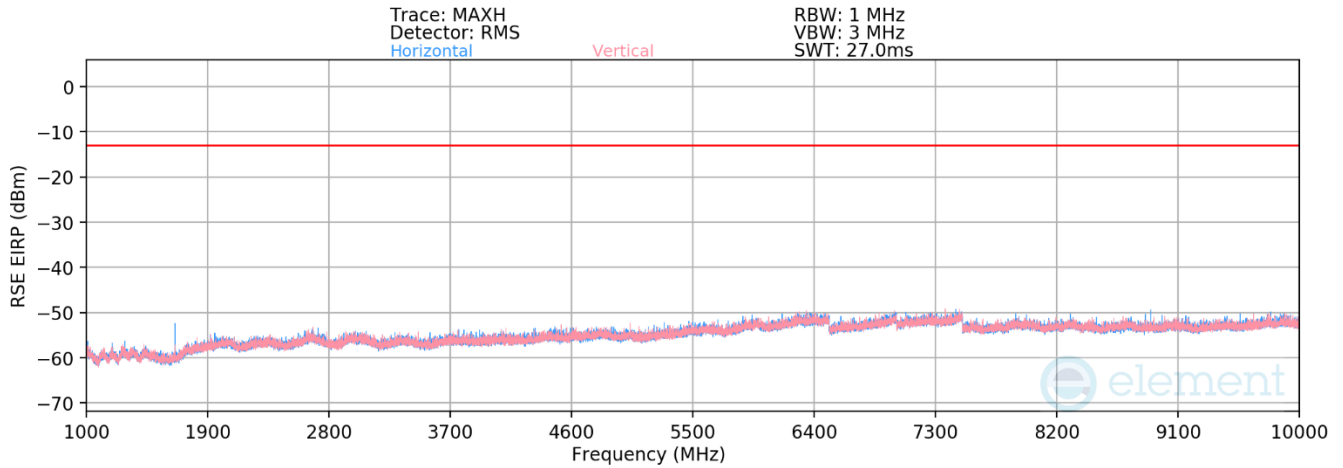
FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.2 Antenna 1 – Radiated Spurious Emission Measurements


LTE Band 26/5



Plot 7-116. Antenna 1 Radiated Spurious Plot below 1GHz (LTE Band 26/5)



Plot 7-117. Antenna 1 Radiated Spurious Plot above 1GHz (LTE Band 26/5)

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Bandwidth (MHz):	10
Frequency (MHz):	829.0
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]
1658.0	H	243	289	-64.34	-5.07	37.59	-57.66	-13.00	-44.66
2487.0	H	-	-	-74.65	-0.72	31.64	-63.62	-13.00	-50.62
3316.0	H	-	-	-75.66	1.66	33.00	-62.26	-13.00	-49.26
4145.0	H	-	-	-77.31	3.12	32.81	-62.45	-13.00	-49.45

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

Bandwidth (MHz):	10
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	-	-	-72.81	-5.03	29.16	-66.09	-13.00	-53.09
2509.5	H	-	-	-74.45	-0.76	31.79	-63.47	-13.00	-50.47
3346.0	H	-	-	-76.04	1.96	32.93	-62.33	-13.00	-49.33

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

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 50

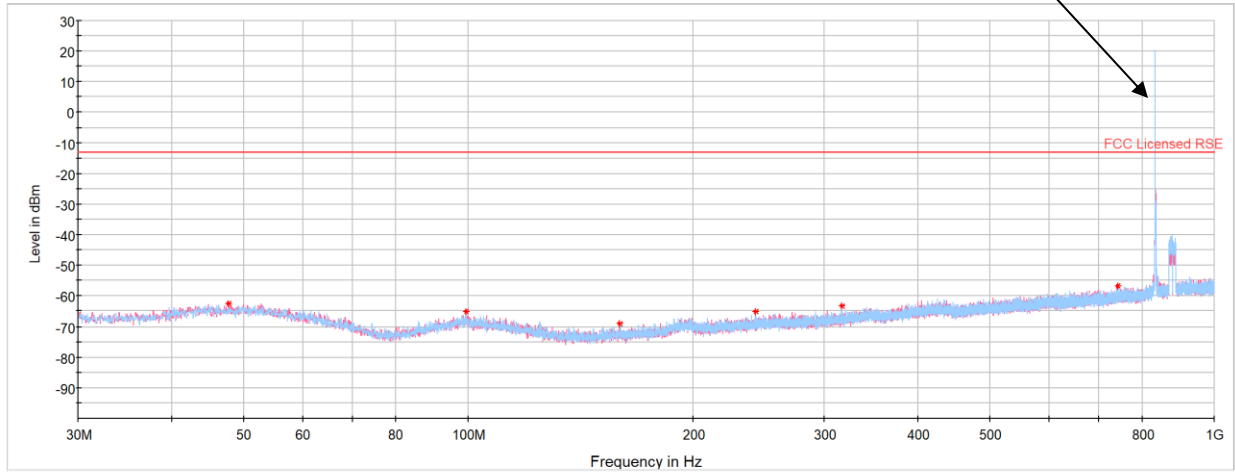
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	115	147	-65.49	-4.95	36.55	-58.70	-13.00	-45.70
2532.0	H	-	-	-74.61	-0.55	31.83	-63.43	-13.00	-50.43
3376.0	H	-	-	-76.01	2.05	33.05	-62.21	-13.00	-49.21
4220.0	H	-	-	-77.07	2.96	32.89	-62.37	-13.00	-49.37

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

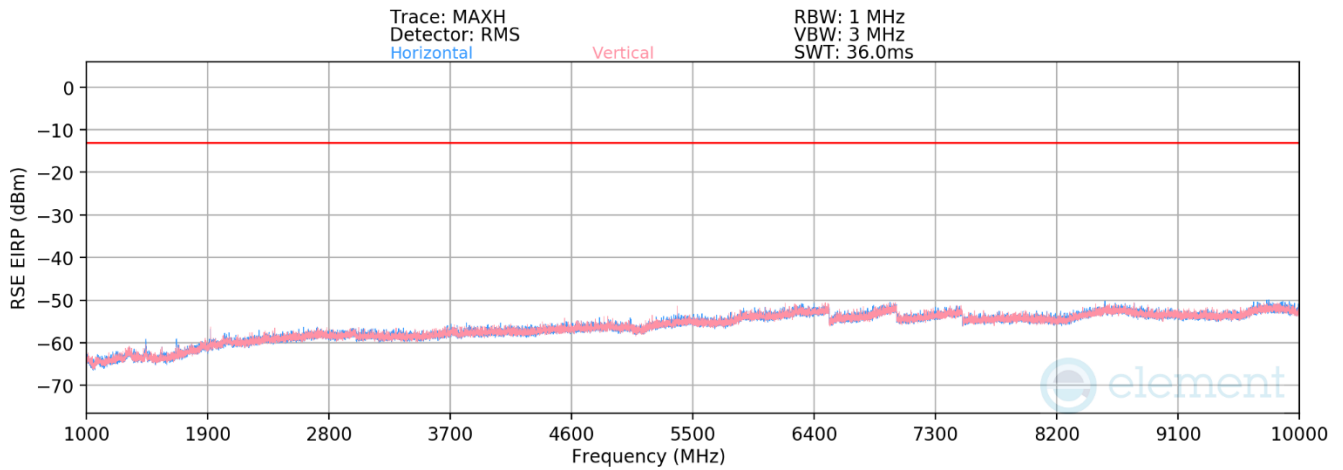
FCC ID: BCGA2837	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 5

LTE Fundamental



Plot 7-118. Antenna 1 Radiated Spurious Plot below 1GHz (ULCA LTE Band 5)



Plot 7-119. Antenna 1 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	361	280	-70.91	-3.75	32.33	-62.92	-13.00	-49.92
2487.0	H	-	-	-77.97	1.12	30.15	-65.11	-13.00	-52.11
3316.0	H	-	-	-78.38	2.41	31.03	-64.23	-13.00	-51.23
4145.0	H	-	-	-78.86	3.60	31.74	-63.52	-13.00	-50.52

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	250	288	-71.06	-3.75	32.18	-63.08	-13.00	-50.08
2532.0	H	-	-	-77.64	0.84	30.20	-65.06	-13.00	-52.06
3376.0	H	-	-	-78.39	2.41	31.02	-64.24	-13.00	-51.24
4220.0	H	-	-	-78.89	3.51	31.62	-63.64	-13.00	-50.64

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

FCC ID: BCGA2837	 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	-	-	-72.40	-5.07	29.53	-65.73	-13.00	-52.73
2502.0	H	-	-	-74.15	-0.76	32.09	-63.17	-13.00	-50.17
3336.0	H	-	-	-75.51	1.80	33.29	-61.97	-13.00	-48.97

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	-	-	-72.53	-5.07	29.40	-65.86	-13.00	-52.86
2509.5	H	-	-	-74.32	-0.67	32.01	-63.25	-13.00	-50.25
3346.0	H	-	-	-75.72	1.96	33.25	-62.01	-13.00	-49.01

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

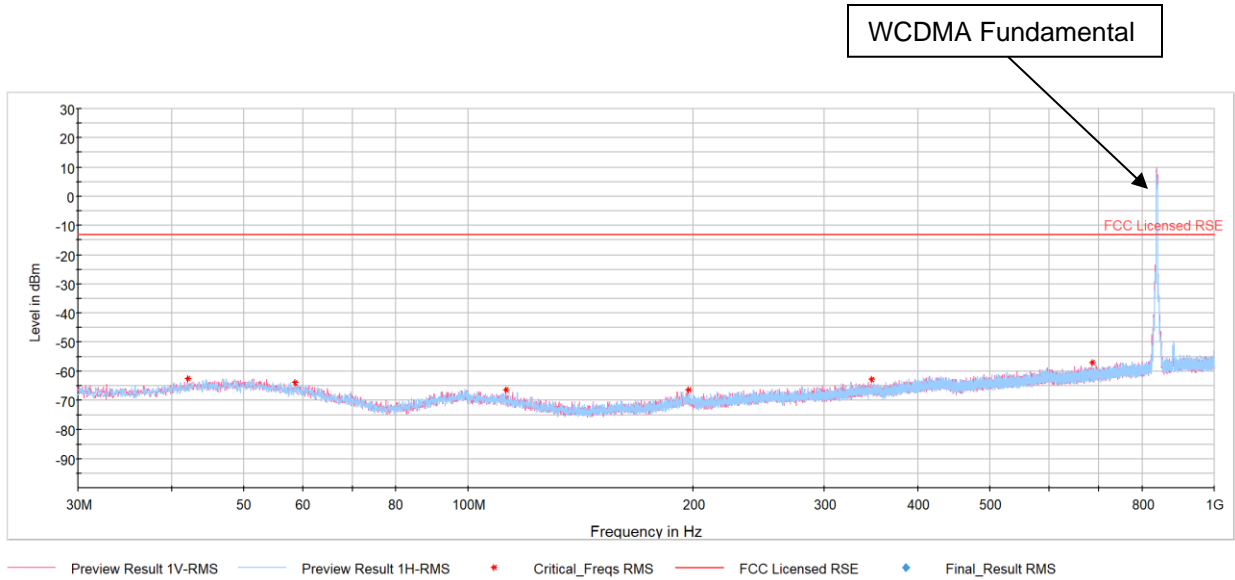
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	-	-	-72.51	-5.03	29.46	-65.80	-13.00	-52.80
2517.0	H	-	-	-74.09	-0.67	32.24	-63.02	-13.00	-50.02
3356.0	H	-	-	-75.65	1.96	33.31	-61.94	-13.00	-48.94

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

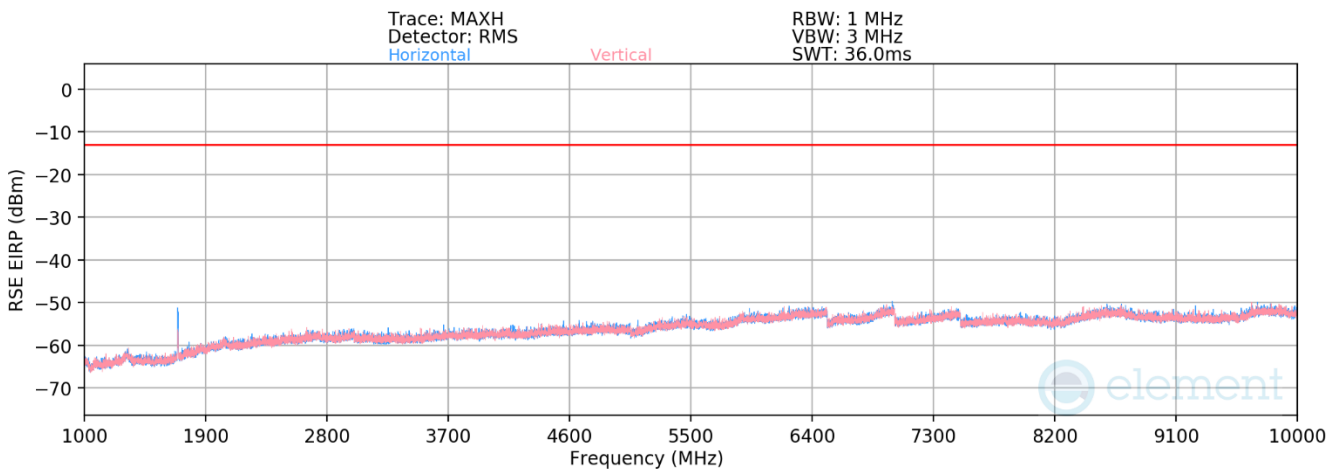
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WCDMA Cell



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	V	264	121	-69.21	-3.73	34.06	-61.19	-13.00	-48.19
2479.2	V	-	-	-77.29	0.87	30.58	-64.68	-13.00	-51.68
3305.6	V	-	-	-77.63	2.33	31.69	-63.57	-13.00	-50.57
4132.0	V	-	-	-78.37	3.48	32.11	-63.15	-13.00	-50.15

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	292	167	-65.09	-3.75	38.16	-57.10	-13.00	-44.10
2509.8	H	-	-	-77.14	0.84	30.70	-64.56	-13.00	-51.56
3346.4	H	-	-	-78.47	2.64	31.16	-64.09	-13.00	-51.09
4183.0	H	-	-	-78.54	3.59	32.05	-63.21	-13.00	-50.21

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	123	167	-63.18	-3.79	40.03	-55.22	-13.00	-42.22
2539.8	H	-	-	-77.43	1.12	30.69	-64.57	-13.00	-51.57
3386.4	H	-	-	-78.23	2.40	31.17	-64.09	-13.00	-51.09
4233.0	H	-	-	-78.56	3.51	31.95	-63.31	-13.00	-50.31

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.

Test Setup

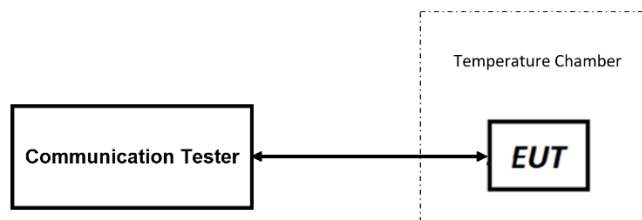



Figure 7-7. Test Instrument & Measurement Setup

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	836,500,053	53.00	0.0000063
		- 20	836,500,065	65.00	0.0000078
		- 10	836,500,049	49.00	0.0000059
		0	836,499,968	-32.00	-0.0000038
		+ 10	836,500,016	16.00	0.0000019
		+ 20 (Ref)	836,500,000	0.00	0.0000000
		+ 30	836,500,036	36.00	0.0000043
		+ 40	836,499,966	-34.00	-0.0000041
		+ 50	836,499,958	-42.00	-0.0000050
Battery Endpoint	3.40	+ 20	836,500,014	14.00	0.0000017

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	836,500,056	56.00	0.0000067
		- 20	836,500,092	92.00	0.0000110
		- 10	836,500,036	36.00	0.0000043
		0	836,499,976	-24.00	-0.0000029
		+ 10	836,500,036	36.00	0.0000043
		+ 20 (Ref)	836,500,000	0.00	0.0000000
		+ 30	836,499,955	-45.00	-0.0000054
		+ 40	836,499,947	-53.00	-0.0000063
		+ 50	836,500,062	62.00	0.0000074
Battery Endpoint	3.40	+ 20	836,499,987	-13.00	-0.0000016

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	836,599,898	-102.00	-0.0000122
		- 20	836,599,939	-61.00	-0.0000073
		- 10	836,600,032	32.00	0.0000038
		0	836,600,054	54.00	0.0000065
		+ 10	836,600,025	25.00	0.0000030
		+ 20 (Ref)	836,600,000	0.00	0.0000000
		+ 30	836,600,035	35.00	0.0000042
		+ 40	836,599,981	-19.00	-0.0000023
		+ 50	836,600,043	43.00	0.0000051
Battery Endpoint	3.40	+ 20	836,600,028	28.00	0.0000033


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: BCGA2837** complies with all the requirements of Part 22 of the FCC rules.

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