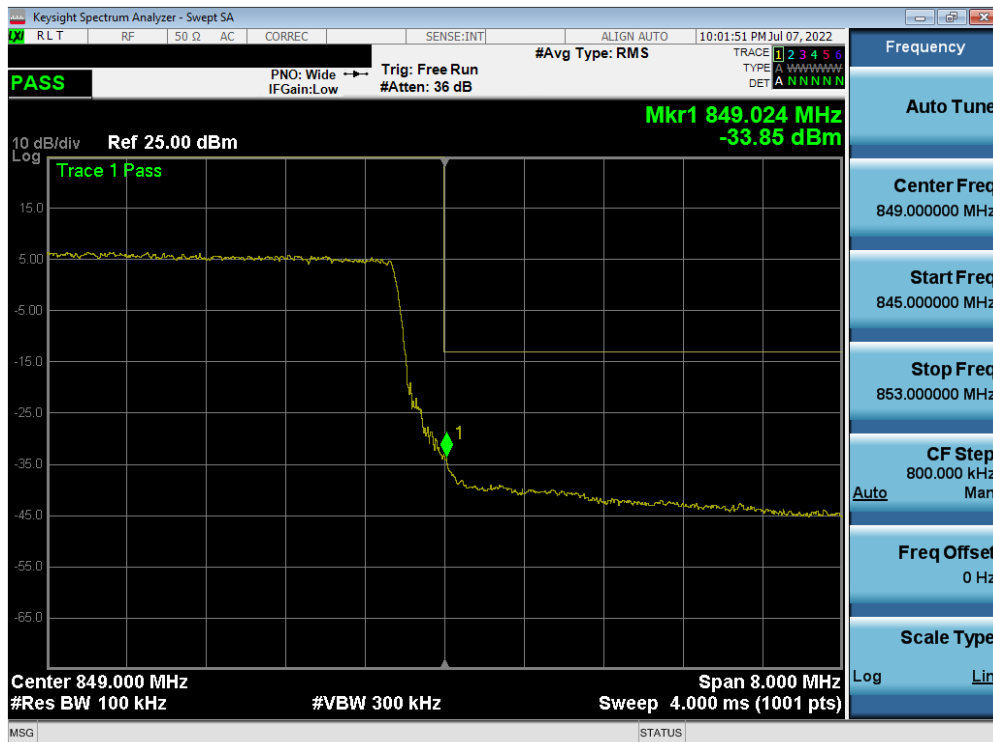


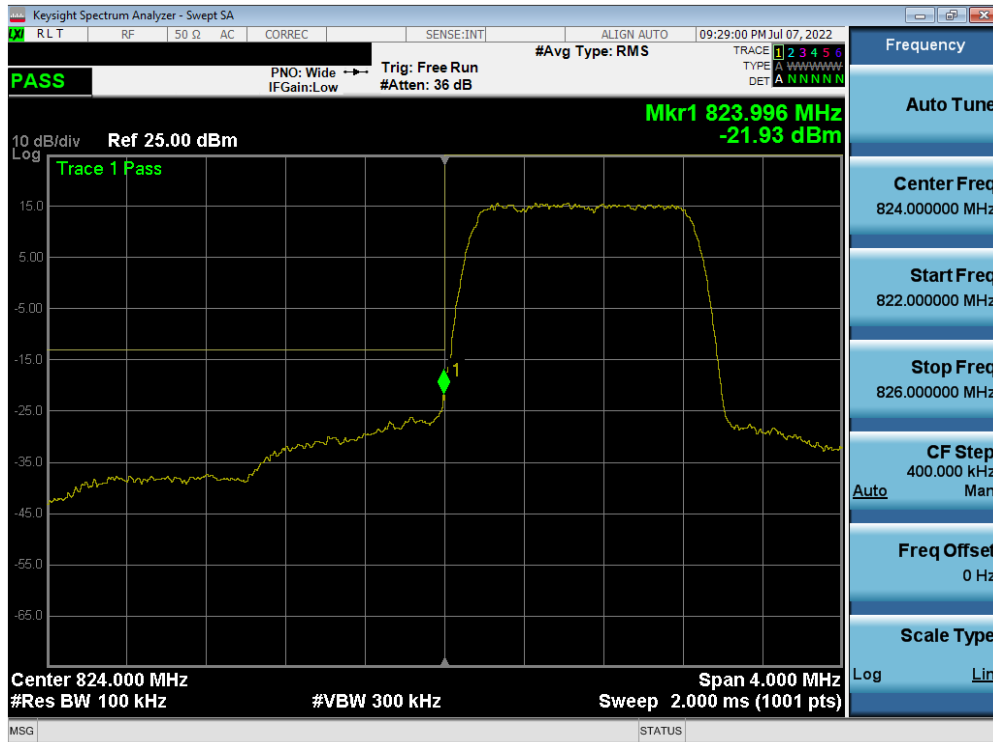
Plot 7-81. Lower BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)



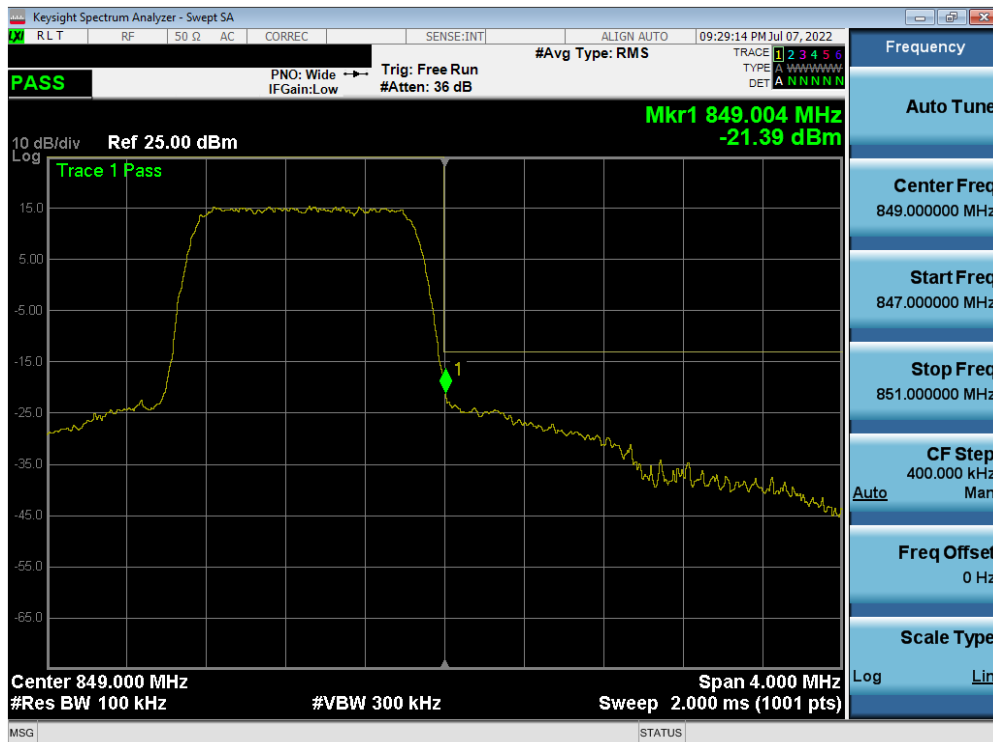
Plot 7-82. Upper BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA2757	<p>element</p> <p>PART 22 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 60 of 96


LTE Band 5



Plot 7-83. Lower BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)

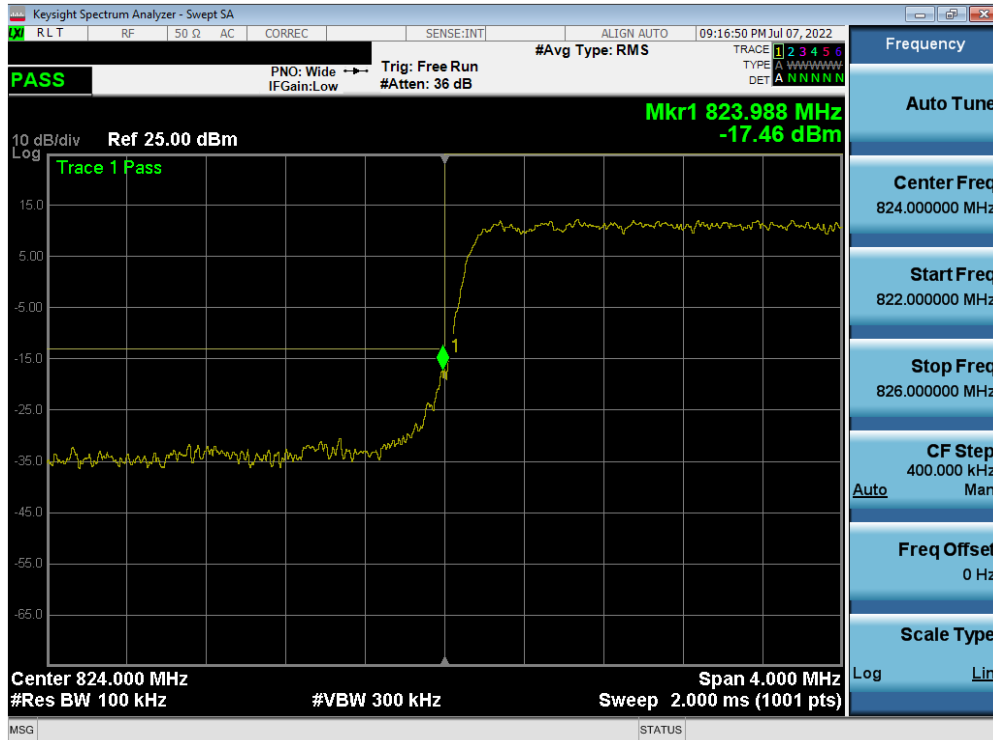


Plot 7-84. Upper BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)

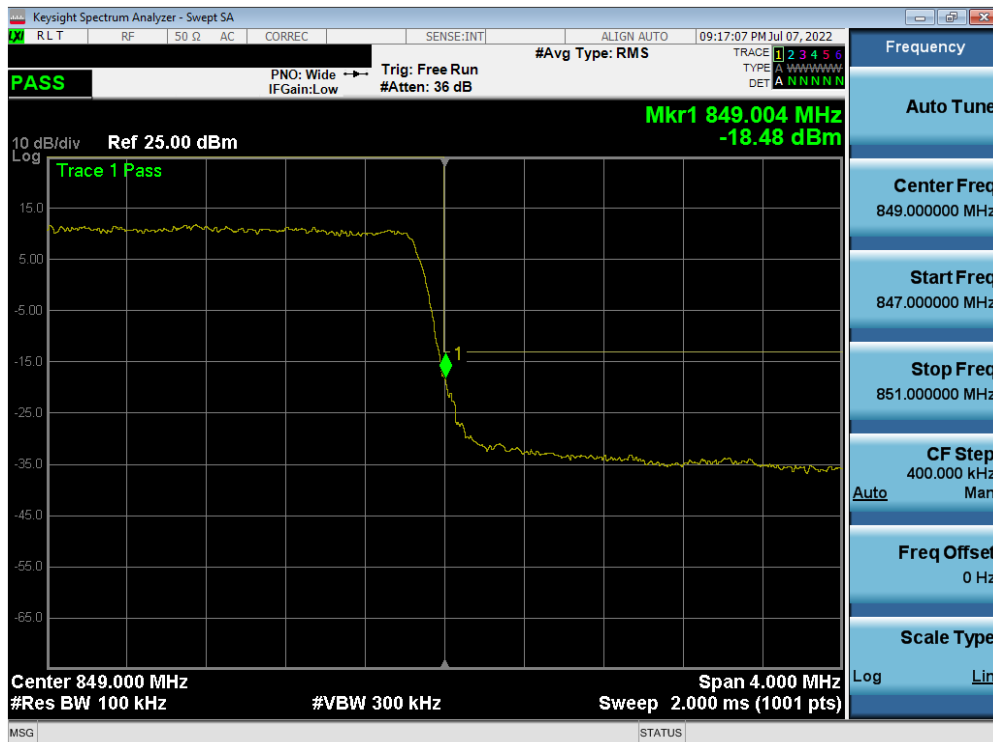
FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 61 of 96

V2.1 11/9/2021

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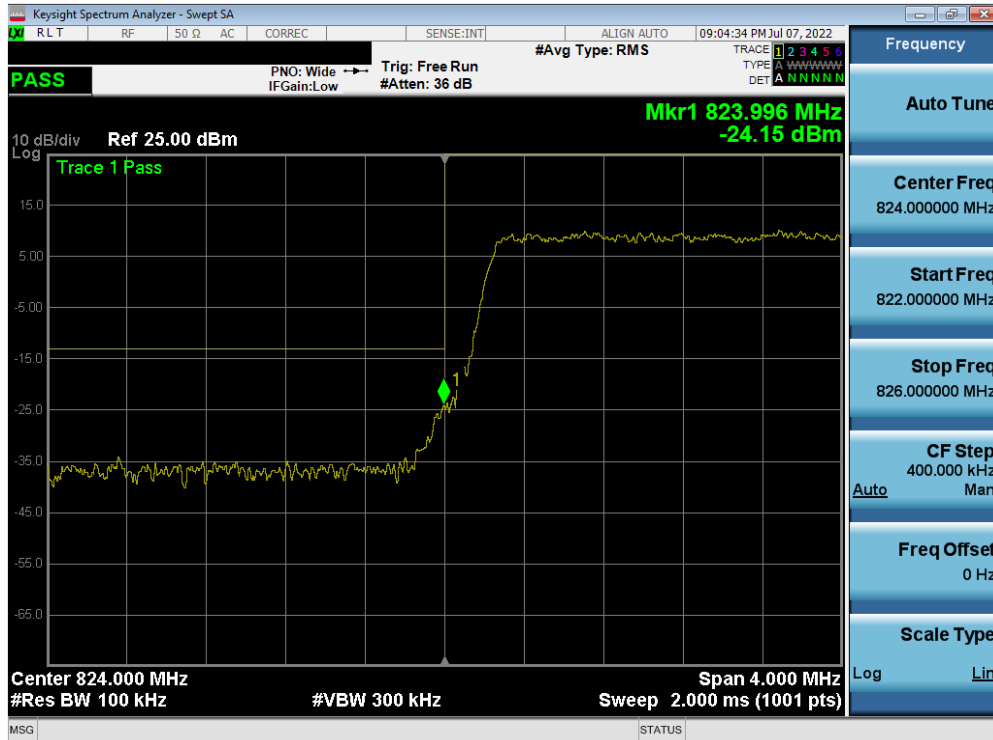


Plot 7-85. Lower BE Plot (LTE Band 5 - 3MHz QPSK - Full RB Configuration)

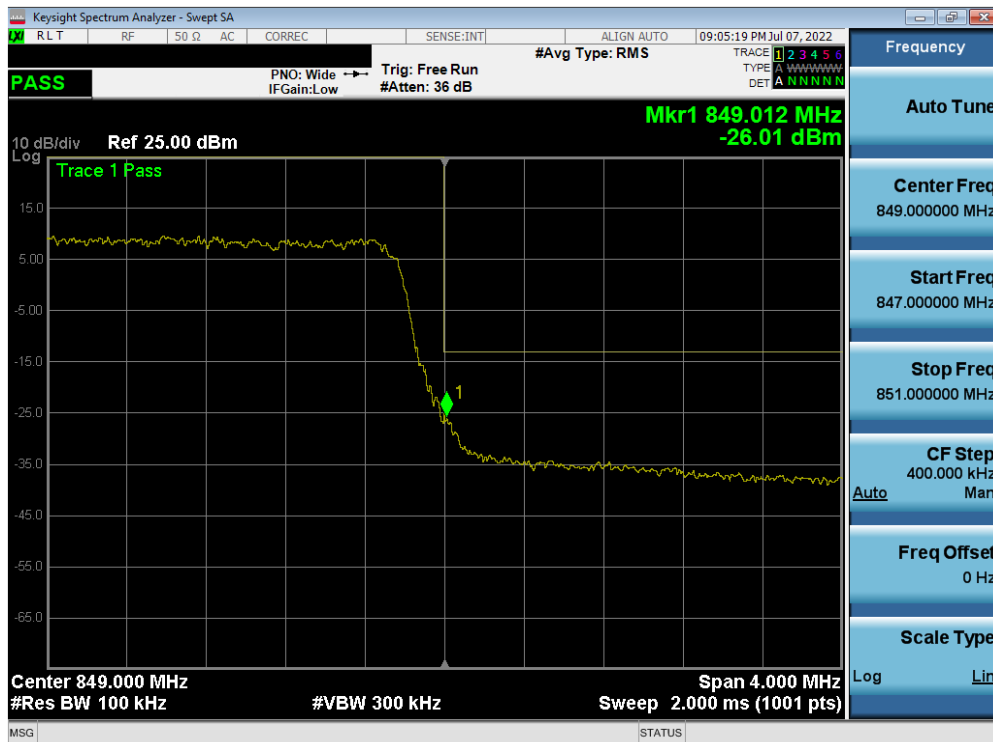


Plot 7-86. Upper BE Plot (LTE Band 5 - 3MHz QPSK - Full RB Configuration)

FCC ID: BCGA2757	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 62 of 96

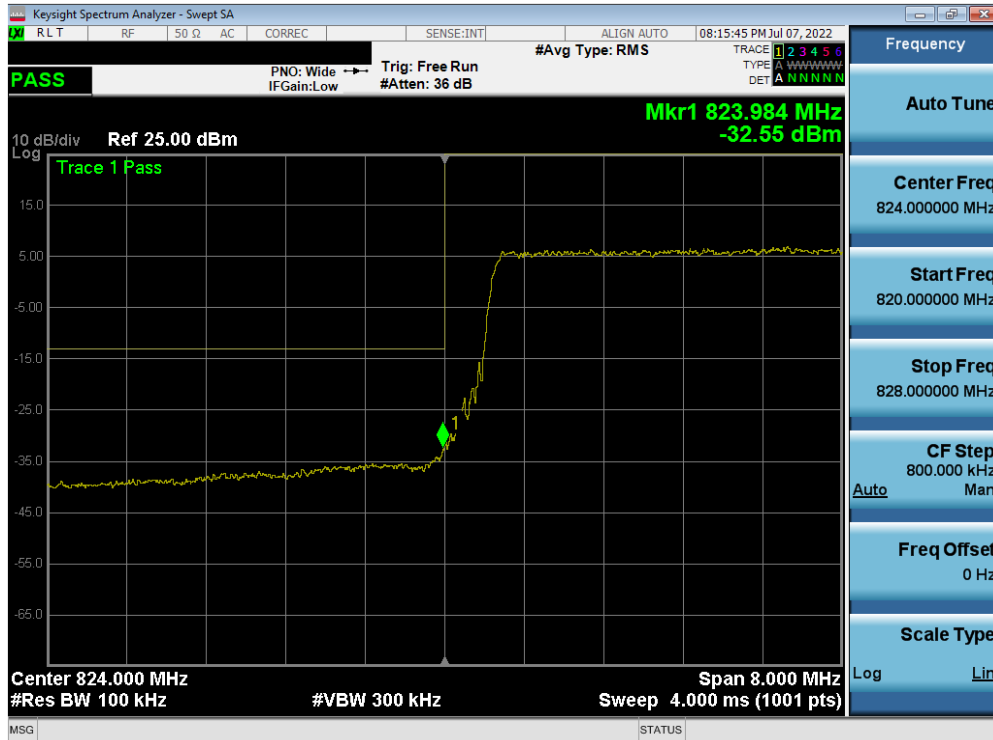


Plot 7-87. Lower BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)

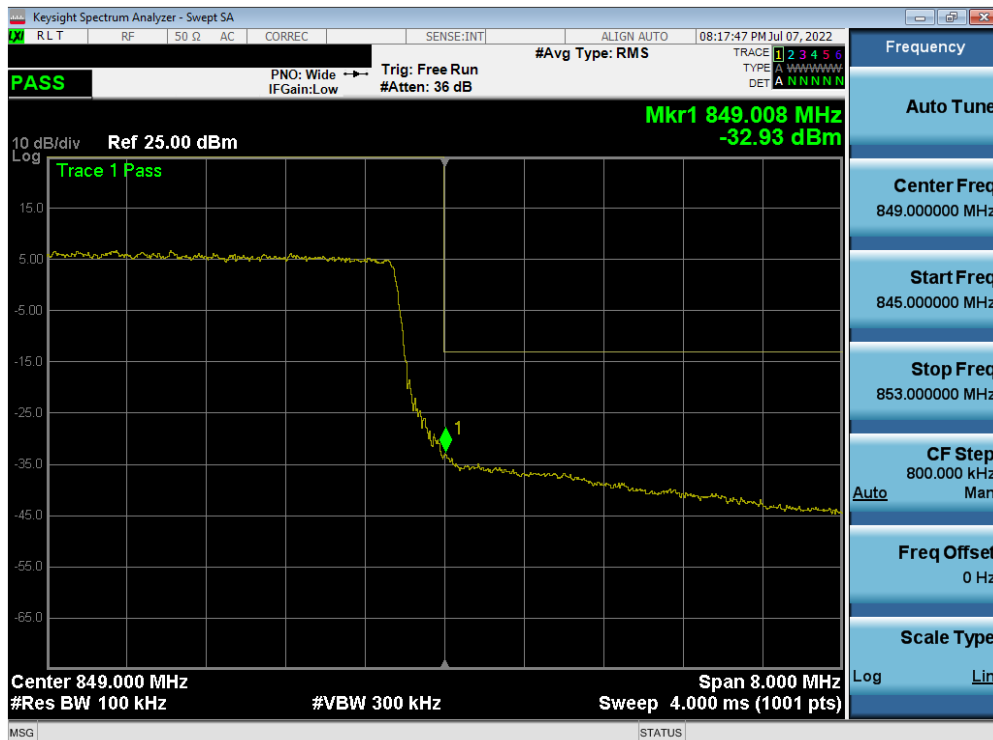


Plot 7-88. Upper BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCGA2757	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 63 of 96



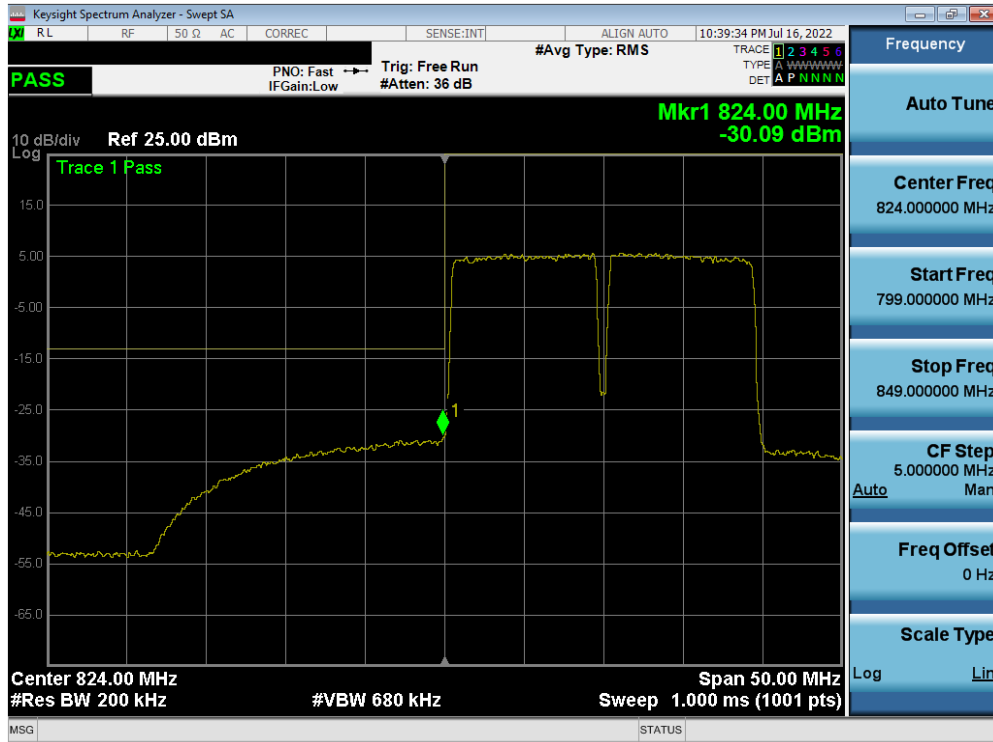
Plot 7-89. Lower BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)



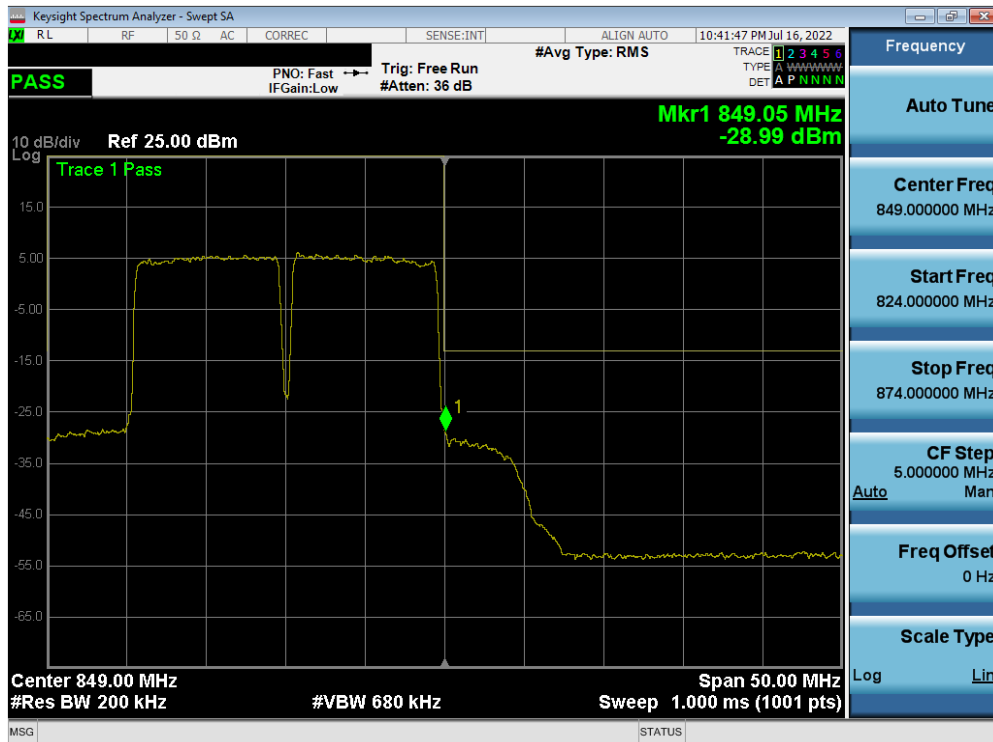
Plot 7-90. Upper BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA2757	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 64 of 96


ULCA - LTE Band 5



Plot 7-91. Lower BE Plot (ULCA – LTE Band 5 – (10 + 10)MHz QPSK – Full RB Configuration)



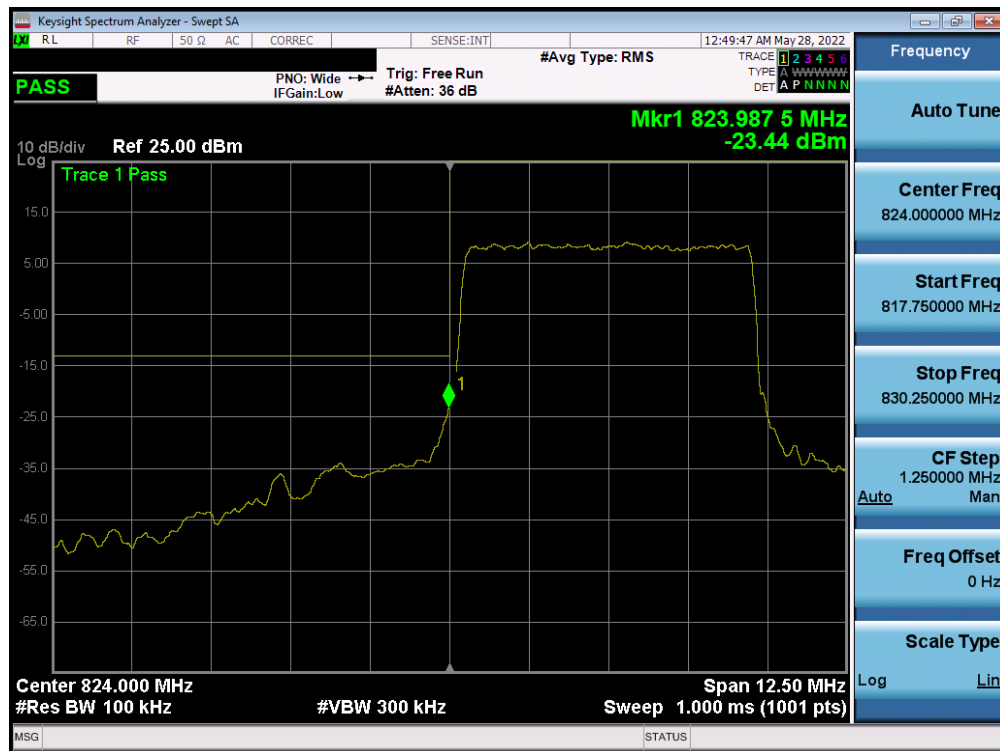
Plot 7-92. Upper BE Plot (ULCA – LTE Band 5 - (10 + 10)MHz QPSK – Full RB Configuration)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 65 of 96

V2.1 11/9/2021

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NR Band n5



Plot 7-93. Lower BE Plot (NR Band n5 – 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-94. Upper BE Plot (NR Band n5 – 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 66 of 96

V2.1 11/9/2021

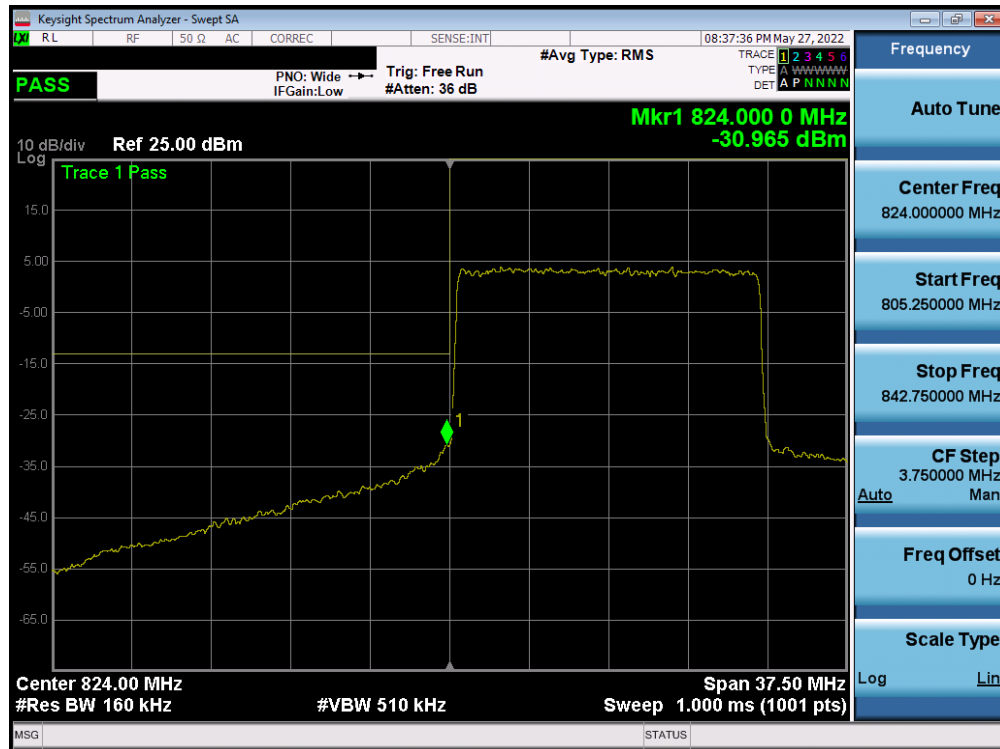


Plot 7-95. Lower BE Plot (NR Band n5– 10.0MHz DFT-s-OFDM QPSK - Full RB)

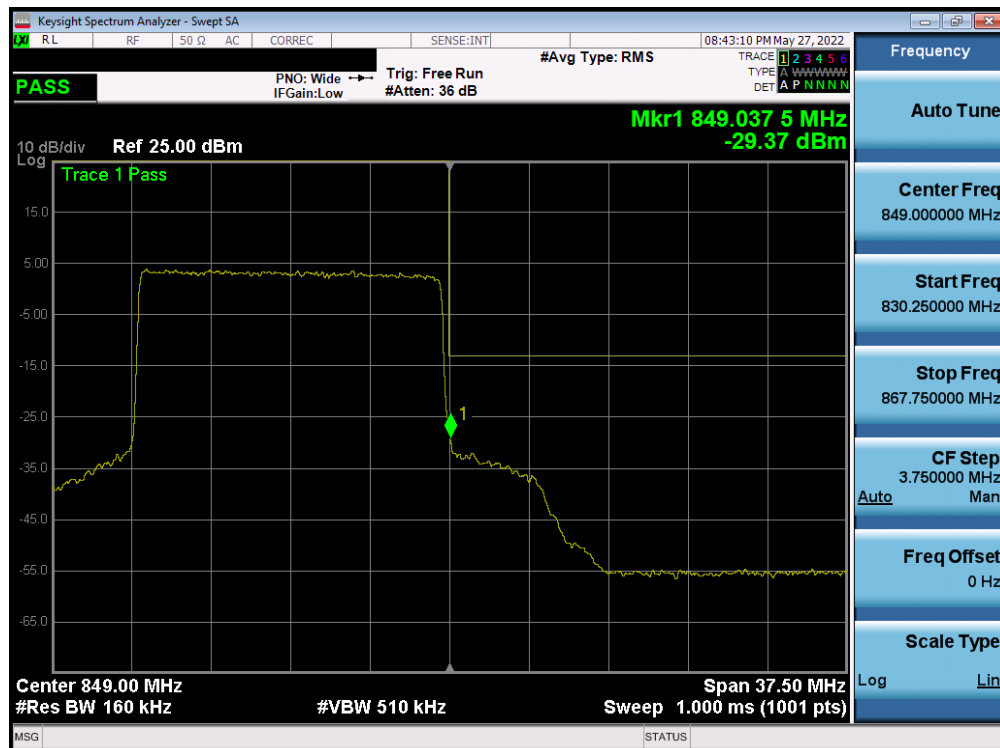


Plot 7-96. Upper BE Plot (NR Band n5 – 10.0MHz DFT-s-OFDM QPSK - Full RB)


FCC ID: BCGA2757	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 67 of 96

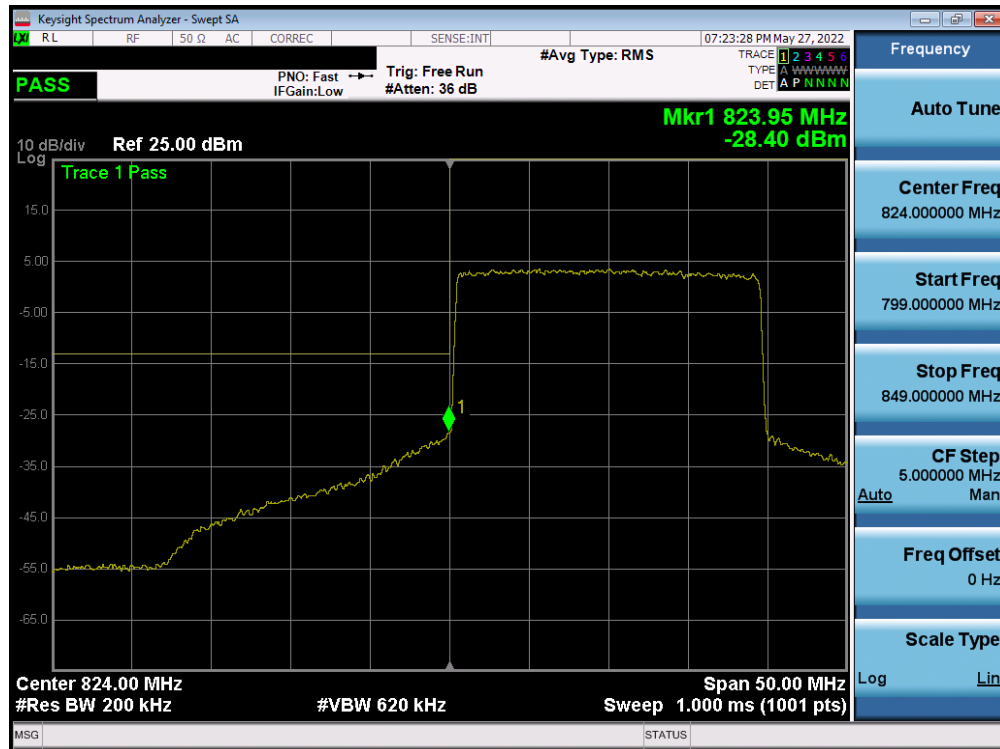


Plot 7-97. Lower BE Plot (NR Band n5 - 15.0MHz CP-OFDM QPSK - Full RB)

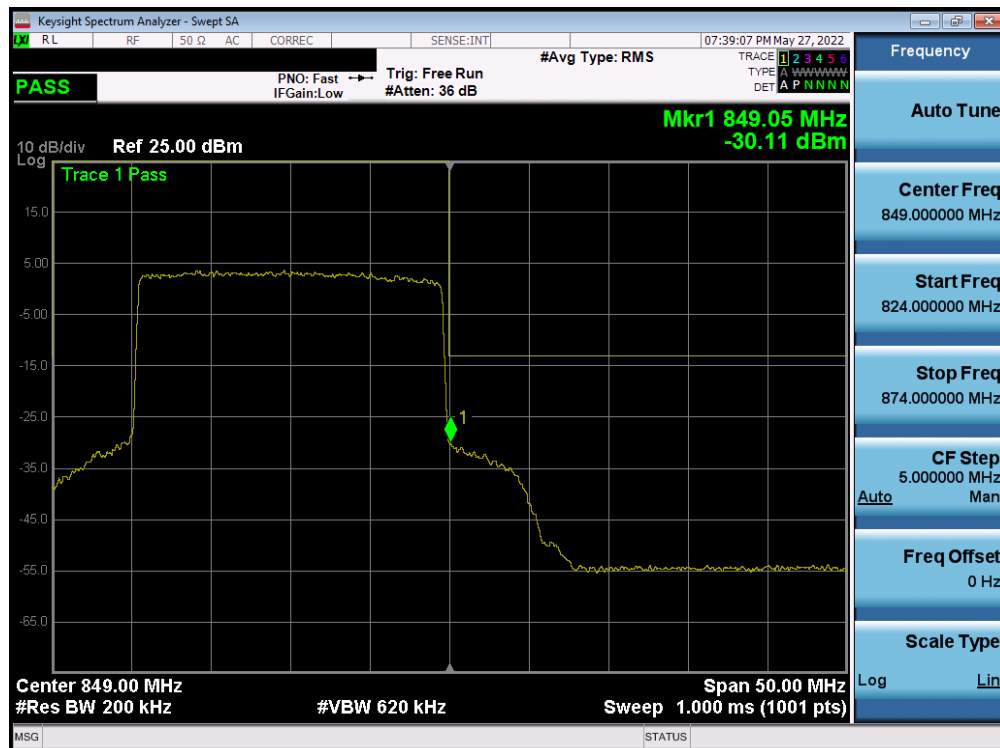


Plot 7-98. Upper BE Plot (NR Band n5 - 15.0MHz CP-OFDM QPSK - Full RB)


FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 68 of 96



Plot 7-99. Lower BE Plot (NR Band n5 – 20.0MHz CP-OFDM QPSK - Full RB)

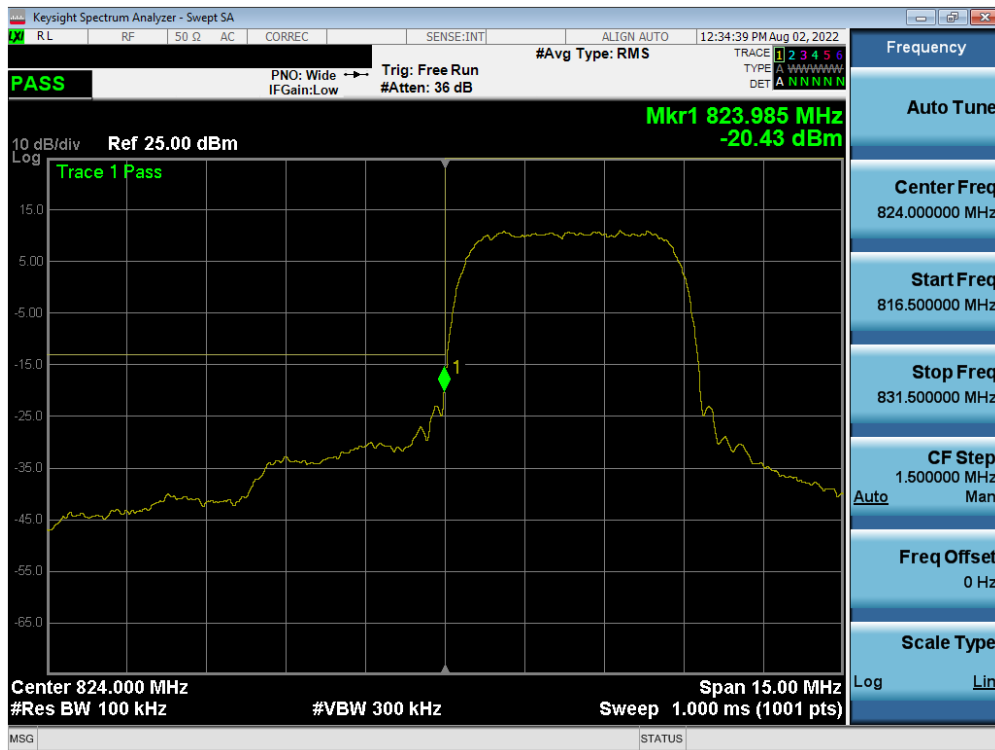


Plot 7-100. Upper BE Plot (NR Band n5 – 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 69 of 96



WCDMA Cell



Plot 7-101. Lower BE Plot (WCDMA Cell – Ch. 4132)



Plot 7-102. Upper BE Plot (WCDMA Cell – Ch. 4233)

FCC ID: BCGA2757	element PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 70 of 96

V2.1 11/9/2021

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7.5 Radiated Power (ERP/EIRP)

§22.913(a)(5)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) 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:

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

Where:

ERP/EIRP = Effective or Equivalent Isotropic 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.

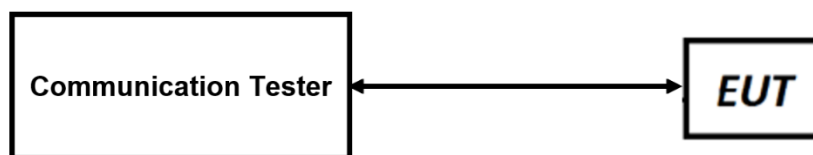




Figure 7-4. ERP/EIRP Measurement Setup

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 71 of 96

V2.1 11/9/2021

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.

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 72 of 96

V2.1 11/9/2021

7.5.1 Antenna 4 – ERP/EIRP

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.80	1 / 0	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
		836.5	-2.80	1 / 0	25.49	20.54	0.113	38.45	-17.91	22.69	0.186	40.61	-17.92
		848.3	-2.80	1 / 3	25.42	20.47	0.111	38.45	-17.98	22.62	0.183	40.61	-17.99
	16-QAM	824.7	-2.80	1 / 0	24.72	19.77	0.095	38.45	-18.68	21.92	0.156	40.61	-18.69
	64-QAM	824.7	-2.80	1 / 0	24.15	19.20	0.083	38.45	-19.25	21.35	0.136	40.61	-19.26
	256-QAM	824.7	-2.80	1 / 0	21.78	16.83	0.048	38.45	-21.62	18.98	0.079	40.61	-21.63
3 MHz	QPSK	825.5	-2.80	1 / 7	25.65	20.70	0.117	38.45	-17.75	22.85	0.193	40.61	-17.76
		836.5	-2.80	1 / 7	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
		847.5	-2.80	1 / 7	25.68	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
	16-QAM	847.5	-2.80	1 / 0	25.05	20.10	0.102	38.45	-18.35	22.25	0.168	40.61	-18.36
	64-QAM	847.5	-2.80	1 / 0	24.37	19.42	0.087	38.45	-19.03	21.57	0.144	40.61	-19.04
	256-QAM	825.5	-2.80	1 / 0	21.67	16.72	0.047	38.45	-21.73	18.87	0.077	40.61	-21.74
5 MHz	QPSK	826.5	-2.80	1 / 12	25.62	20.67	0.117	38.45	-17.78	22.82	0.191	40.61	-17.79
		836.5	-2.80	1 / 0	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
		846.5	-2.80	1 / 12	25.51	20.56	0.114	38.45	-17.89	22.71	0.187	40.61	-17.90
	16-QAM	836.5	-2.80	1 / 0	25.00	20.05	0.101	38.45	-18.40	22.20	0.166	40.61	-18.41
	64-QAM	826.5	-2.80	1 / 0	24.05	19.10	0.081	38.45	-19.35	21.25	0.133	40.61	-19.36
	256-QAM	826.5	-2.80	1 / 12	21.54	16.59	0.046	38.45	-21.86	18.74	0.075	40.61	-21.87
10 MHz	QPSK	829.0	-2.80	1 / 25	25.68	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
		836.5	-2.80	1 / 25	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
		844.0	-2.80	1 / 25	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
	16-QAM	836.5	-2.80	1 / 25	25.08	20.13	0.103	38.45	-18.32	22.28	0.169	40.61	-18.33
	64-QAM	836.5	-2.80	1 / 0	24.34	19.39	0.087	38.45	-19.06	21.54	0.143	40.61	-19.07
	256-QAM	829.0	-2.80	1 / 49	21.63	16.68	0.047	38.45	-21.77	18.83	0.076	40.61	-21.78

Table 7-2. Antenna 4 ERP/EIRP Data (LTE Band 26)

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.80	1 / 0	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
		836.5	-2.80	1 / 5	25.51	20.56	0.114	38.45	-17.89	22.71	0.187	40.61	-17.90
		848.3	-2.80	1 / 5	25.48	20.53	0.113	38.45	-17.92	22.68	0.185	40.61	-17.93
	16-QAM	824.7	-2.80	1 / 0	24.68	19.73	0.094	38.45	-18.72	21.88	0.154	40.61	-18.73
	64-QAM	824.7	-2.80	1 / 0	24.14	19.19	0.083	38.45	-19.26	21.34	0.136	40.61	-19.27
3 MHz	QPSK	824.7	-2.80	1 / 0	21.80	16.85	0.048	38.45	-21.60	19.00	0.079	40.61	-21.61
		825.5	-2.80	1 / 7	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
		836.5	-2.80	1 / 7	25.68	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
	16-QAM	847.5	-2.80	1 / 0	25.07	20.12	0.103	38.45	-18.33	22.27	0.169	40.61	-18.34
		847.5	-2.80	1 / 0	24.39	19.44	0.088	38.45	-19.01	21.59	0.144	40.61	-19.02
5 MHz	QPSK	847.5	-2.80	1 / 0	21.69	16.74	0.047	38.45	-21.71	18.89	0.077	40.61	-21.72
		826.5	-2.80	1 / 12	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
		836.5	-2.80	1 / 0	25.67	20.72	0.118	38.45	-17.73	22.87	0.194	40.61	-17.74
	16-QAM	846.5	-2.80	1 / 0	25.57	20.62	0.115	38.45	-17.83	22.77	0.189	40.61	-17.84
		836.5	-2.80	1 / 12	24.95	20.00	0.100	38.45	-18.45	22.15	0.164	40.61	-18.46
10 MHz	QPSK	826.5	-2.80	1 / 0	24.12	19.17	0.083	38.45	-19.28	21.32	0.136	40.61	-19.29
		826.5	-2.80	1 / 0	21.64	16.69	0.047	38.45	-21.76	18.84	0.077	40.61	-21.77
		829.0	-2.80	1 / 25	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
	16-QAM	836.5	-2.80	1 / 25	25.62	20.67	0.117	38.45	-17.78	22.82	0.191	40.61	-17.79
		844.0	-2.80	1 / 25	25.58	20.63	0.116	38.45	-17.82	22.78	0.190	40.61	-17.83
10 MHz	64-QAM	844.0	-2.80	1 / 25	24.96	20.01	0.100	38.45	-18.44	22.16	0.164	40.61	-18.45
		844.0	-2.80	1 / 0	24.24	19.29	0.085	38.45	-19.16	21.44	0.139	40.61	-19.17
		829.0	-2.80	1 / 0	21.76	16.81	0.048	38.45	-21.64	18.96	0.079	40.61	-21.65

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

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device		Page 73 of 96

V2.1 11/9/2021

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	826.5	-2.80	1 / 23	25.56	20.61	0.115	38.45	-17.85	22.76	0.189	40.61	-17.85
		836.5	-2.80	1 / 12	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
		846.5	-2.80	1 / 1	25.38	20.43	0.110	38.45	-18.02	22.58	0.181	40.61	-18.03
	QPSK	826.5	-2.80	1 / 12	25.57	20.62	0.115	38.45	-17.83	22.77	0.189	40.61	-17.84
		836.5	-2.80	1 / 1	25.47	20.52	0.113	38.45	-17.93	22.67	0.185	40.61	-17.94
		846.5	-2.80	1 / 12	25.28	20.33	0.108	38.45	-18.12	22.48	0.177	40.61	-18.12
	16-QAM	826.5	-2.80	1 / 12	24.90	19.95	0.099	38.45	-18.51	22.10	0.162	40.61	-18.51
	64-QAM	826.5	-2.80	1 / 1	23.47	18.52	0.071	38.45	-19.93	20.67	0.117	40.61	-19.94
10 MHz	π/2 BPSK	836.5	-2.80	1 / 1	21.72	16.77	0.048	38.45	-21.68	18.92	0.078	40.61	-21.68
		829.0	-2.80	1 / 1	25.42	20.47	0.112	38.45	-17.98	22.62	0.183	40.61	-17.98
		836.5	-2.80	1 / 25	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
	QPSK	844.0	-2.80	1 / 1	25.54	20.59	0.114	38.45	-17.87	22.74	0.188	40.61	-17.87
		829.0	-2.80	1 / 25	25.48	20.53	0.113	38.45	-17.92	22.68	0.185	40.61	-17.93
		836.5	-2.80	1 / 25	25.55	20.60	0.115	38.45	-17.85	22.75	0.189	40.61	-17.85
	16-QAM	844.0	-2.80	1 / 25	25.22	20.27	0.106	38.45	-18.18	22.42	0.174	40.61	-18.19
		829.0	-2.80	1 / 25	25.06	20.11	0.103	38.45	-18.34	22.26	0.168	40.61	-18.35
15 MHz	π/2 BPSK	829.0	-2.80	1 / 1	23.68	18.73	0.075	38.45	-19.72	20.88	0.123	40.61	-19.72
		829.0	-2.80	1 / 1	21.52	16.57	0.045	38.45	-21.88	18.72	0.074	40.61	-21.89
		831.5	-2.80	1 / 73	25.65	20.70	0.117	38.45	-17.75	22.85	0.193	40.61	-17.76
	QPSK	836.5	-2.80	1 / 75	25.45	20.50	0.112	38.45	-17.96	22.65	0.184	40.61	-17.96
		841.5	-2.80	1 / 75	25.23	20.28	0.107	38.45	-18.17	22.43	0.175	40.61	-18.17
		831.5	-2.80	1 / 1	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
	16-QAM	836.5	-2.80	1 / 73	25.60	20.65	0.116	38.45	-17.80	22.80	0.191	40.61	-17.80
		841.5	-2.80	1 / 1	25.63	20.68	0.117	38.45	-17.77	22.83	0.192	40.61	-17.78
20 MHz	π/2 BPSK	836.5	-2.80	1 / 75	25.05	20.10	0.102	38.45	-18.36	22.25	0.168	40.61	-18.36
		836.5	-2.80	1 / 73	23.08	18.13	0.065	38.45	-20.32	20.28	0.107	40.61	-20.33
		831.5	-2.80	1 / 75	21.39	16.44	0.044	38.45	-22.01	18.59	0.072	40.61	-22.01
	QPSK	834.0	-2.80	1 / 1	25.62	20.67	0.117	38.45	-17.78	22.82	0.191	40.61	-17.79
		836.5	-2.80	1 / 50	25.66	20.71	0.118	38.45	-17.74	22.86	0.193	40.61	-17.75
		839.0	-2.80	1 / 1	25.40	20.45	0.111	38.45	-18.00	22.60	0.182	40.61	-18.01
	16-QAM	834.0	-2.80	1 / 98	25.34	20.39	0.109	38.45	-18.06	22.54	0.179	40.61	-18.07
		836.5	-2.80	1 / 1	25.70	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
25 MHz	π/2 BPSK	839.0	-2.80	1 / 1	25.47	20.52	0.113	38.45	-17.93	22.67	0.185	40.61	-17.93
		839.0	-2.80	1 / 1	24.73	19.78	0.095	38.45	-18.67	21.93	0.156	40.61	-18.67
		834.0	-2.80	1 / 1	23.37	18.42	0.070	38.45	-20.03	20.57	0.114	40.61	-20.03
	QPSK	836.5	-2.80	1 / 1	21.24	16.29	0.043	38.45	-22.16	18.44	0.070	40.61	-22.17
		839.0	-2.80	1 / 1	24.73	19.78	0.095	38.45	-18.67	21.93	0.156	40.61	-18.67
		834.0	-2.80	1 / 1	23.37	18.42	0.070	38.45	-20.03	20.57	0.114	40.61	-20.03
	16-QAM	836.5	-2.80	1 / 1	21.24	16.29	0.043	38.45	-22.16	18.44	0.070	40.61	-22.17
		839.0	-2.80	1 / 1	24.73	19.78	0.095	38.45	-18.67	21.93	0.156	40.61	-18.67
		834.0	-2.80	1 / 1	23.37	18.42	0.070	38.45	-20.03	20.57	0.114	40.61	-20.03

Table 7-4. Antenna 4 ERP/EIRP Data (NR Band n5)

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]	EIRP [dBm]	EIRP [Watts]	EIRP 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	25.64	-2.80	20.69	0.117	38.45	-17.76	22.84	0.192	40.61	-17.77	
				20475	831.5	1	49		20574	841.4	1	0	25.59	-2.80	20.64	0.116	38.45	-17.81	22.79	0.190	40.61	-17.82	
				20000	844.0	1	0		20501	834.1	1	49	25.67	-2.80	20.72	0.118	38.45	-17.73	22.87	0.194	40.61	-17.74	
				20000	844.0	50	0		20501	834.1	50	0	23.73	-2.80	18.78	0.076	38.45	-19.67	20.93	0.124	40.61	-19.68	
			16-QAM	20000	844.0	50	0	16-QAM	20501	834.1	50	0	22.76	-2.80	17.81	0.060	38.45	-20.64	19.96	0.099	40.61	-20.65	
				64-QAM	20000	844.0	50	0	64-QAM	20501	834.1	50	0	22.74	-2.80	17.79	0.060	38.45	-20.66	19.94	0.099	40.61	-20.67
				256-QAM	20000	844.0	50	0	256-QAM	20501	834.1	50	0	20.78	-2.80	15.83	0.038	38.45	-22.62	17.98	0.063	40.61	-22.63
				256-QAM	20000	844.0	50	0	256-QAM	20501	834.1	50	0	20.78	-2.80	15.83	0.038	38.45	-22.62	17.98	0.063	40.61	-22.63

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

WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	25.68	-2.80	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
836.60	WCDMA850	25.70	-2.80	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
846.60	WCDMA850	25.67	-2.80	20.72	0.118	38.45	-17.73	22.87	0.194	40.61	-17.74

Table 7-6. Antenna 4 ERP/EIRP Data (WCDMA Cell)

FCC ID: BCGA2757			PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 74 of 96	

7.5.2 Antenna 3b – ERP/EIRP

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-0.70	1 / 0	24.92	22.07	0.161	38.45	-16.38	24.22	0.264	40.61	-16.39
		836.5	-0.70	1 / 0	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
		848.3	-0.70	1 / 0	25.17	22.32	0.171	38.45	-16.13	24.47	0.280	40.61	-16.14
	16-QAM	824.7	-0.70	1 / 0	24.20	21.35	0.136	38.45	-17.10	23.50	0.224	40.61	-17.11
	64-QAM	836.5	-0.70	1 / 0	23.59	20.74	0.119	38.45	-17.71	22.89	0.195	40.61	-17.72
	256-QAM	836.5	-0.70	1 / 0	21.32	18.47	0.070	38.45	-19.98	20.62	0.115	40.61	-19.99
3 MHz	QPSK	825.5	-0.70	1 / 14	25.16	22.31	0.170	38.45	-16.14	24.46	0.279	40.61	-16.15
		836.5	-0.70	1 / 7	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
		847.5	-0.70	1 / 7	25.18	22.33	0.171	38.45	-16.12	24.48	0.281	40.61	-16.13
	16-QAM	847.5	-0.70	1 / 0	24.56	21.71	0.148	38.45	-16.74	23.86	0.243	40.61	-16.75
	64-QAM	847.5	-0.70	1 / 7	23.87	21.02	0.126	38.45	-17.43	23.17	0.207	40.61	-17.44
	256-QAM	836.5	-0.70	1 / 7	21.29	18.44	0.070	38.45	-20.01	20.59	0.115	40.61	-20.02
5 MHz	QPSK	826.5	-0.70	1 / 0	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
		836.5	-0.70	1 / 0	25.19	22.34	0.171	38.45	-16.11	24.49	0.281	40.61	-16.12
		846.5	-0.70	1 / 0	25.15	22.30	0.170	38.45	-16.15	24.45	0.279	40.61	-16.16
	16-QAM	836.5	-0.70	1 / 12	24.42	21.57	0.144	38.45	-16.88	23.72	0.236	40.61	-16.89
	64-QAM	826.5	-0.70	1 / 0	23.58	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
	256-QAM	836.5	-0.70	1 / 0	21.23	18.38	0.069	38.45	-20.07	20.53	0.113	40.61	-20.08
10 MHz	QPSK	829.0	-0.70	1 / 25	25.11	22.26	0.168	38.45	-16.19	24.41	0.276	40.61	-16.20
		836.5	-0.70	1 / 25	25.14	22.29	0.169	38.45	-16.16	24.44	0.278	40.61	-16.17
		844.0	-0.70	1 / 25	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
	16-QAM	844.0	-0.70	1 / 25	24.46	21.61	0.145	38.45	-16.84	23.76	0.238	40.61	-16.85
	64-QAM	844.0	-0.70	1 / 0	23.78	20.93	0.124	38.45	-17.52	23.08	0.203	40.61	-17.53
	256-QAM	844.0	-0.70	1 / 0	20.70	17.85	0.061	38.45	-20.60	20.00	0.100	40.61	-20.61

Table 7-7. Antenna 3b ERP/EIRP Data (LTE Band 26)

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-0.70	1 / 0	24.98	22.13	0.163	38.45	-16.32	24.28	0.268	40.61	-16.33
		836.5	-0.70	1 / 0	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
		848.3	-0.70	1 / 0	25.04	22.19	0.166	38.45	-16.26	24.34	0.272	40.61	-16.27
	16-QAM	824.7	-0.70	1 / 0	24.60	21.75	0.150	38.45	-16.70	23.90	0.245	40.61	-16.71
	64-QAM	836.5	-0.70	1 / 0	23.34	20.49	0.112	38.45	-17.96	22.64	0.184	40.61	-17.97
	256-QAM	836.5	-0.70	1 / 0	20.42	17.57	0.057	38.45	-20.88	19.72	0.094	40.61	-20.89
3 MHz	QPSK	825.5	-0.70	1 / 7	25.02	22.17	0.165	38.45	-16.28	24.32	0.270	40.61	-16.29
		836.5	-0.70	1 / 7	25.04	22.19	0.166	38.45	-16.26	24.34	0.272	40.61	-16.27
		847.5	-0.70	1 / 7	25.11	22.26	0.168	38.45	-16.19	24.41	0.276	40.61	-16.20
	16-QAM	847.5	-0.70	1 / 0	24.50	21.65	0.146	38.45	-16.80	23.80	0.240	40.61	-16.81
	64-QAM	847.5	-0.70	1 / 0	23.80	20.95	0.124	38.45	-17.50	23.10	0.204	40.61	-17.51
	256-QAM	847.5	-0.70	1 / 7	20.79	17.94	0.062	38.45	-20.51	20.09	0.102	40.61	-20.52
5 MHz	QPSK	826.5	-0.70	1 / 12	25.12	22.27	0.169	38.45	-16.18	24.42	0.277	40.61	-16.19
		836.5	-0.70	1 / 0	25.13	22.28	0.169	38.45	-16.17	24.43	0.277	40.61	-16.18
		846.5	-0.70	1 / 12	25.07	22.22	0.167	38.45	-16.23	24.37	0.274	40.61	-16.24
	16-QAM	836.5	-0.70	1 / 12	24.41	21.56	0.143	38.45	-16.89	23.71	0.235	40.61	-16.90
	64-QAM	826.5	-0.70	1 / 12	23.47	20.62	0.115	38.45	-17.83	22.77	0.189	40.61	-17.84
	256-QAM	846.5	-0.70	1 / 0	20.65	17.80	0.060	38.45	-20.65	19.95	0.099	40.61	-20.66
10 MHz	QPSK	829.0	-0.70	1 / 0	25.01	22.16	0.164	38.45	-16.29	24.31	0.270	40.61	-16.30
		836.5	-0.70	1 / 49	25.03	22.18	0.165	38.45	-16.27	24.33	0.271	40.61	-16.28
		844.0	-0.70	1 / 25	25.02	22.17	0.165	38.45	-16.28	24.32	0.270	40.61	-16.29
	16-QAM	844.0	-0.70	1 / 49	24.37	21.52	0.142	38.45	-16.93	23.67	0.233	40.61	-16.94
	64-QAM	844.0	-0.70	1 / 0	23.74	20.89	0.123	38.45	-17.56	23.04	0.201	40.61	-17.57
	256-QAM	844.0	-0.70	1 / 25	20.68	17.83	0.061	38.45	-20.62	19.98	0.100	40.61	-20.63

Table 7-8. Antenna 3b ERP/EIRP Data (LTE Band 5)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device		Page 75 of 96

V2.1 11/9/2021

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	826.5	-0.70	1 / 12	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
		836.5	-0.70	1 / 12	25.12	22.27	0.169	38.45	-16.18	24.42	0.277	40.61	-16.18
		846.5	-0.70	1 / 1	24.95	22.10	0.162	38.45	-16.35	24.25	0.266	40.61	-16.36
	QPSK	826.5	-0.70	1 / 12	25.02	22.17	0.165	38.45	-16.28	24.32	0.271	40.61	-16.28
		836.5	-0.70	1 / 1	25.00	22.15	0.164	38.45	-16.30	24.30	0.269	40.61	-16.31
		846.5	-0.70	1 / 1	24.77	21.92	0.156	38.45	-16.53	24.07	0.256	40.61	-16.53
	16-QAM	826.5	-0.70	1 / 1	24.14	21.29	0.135	38.45	-17.16	23.44	0.221	40.61	-17.17
	64-QAM	846.5	-0.70	1 / 1	22.83	19.98	0.100	38.45	-18.47	22.13	0.163	40.61	-18.47
10 MHz	π/2 BPSK	826.5	-0.70	1 / 1	20.74	17.89	0.062	38.45	-20.56	20.04	0.101	40.61	-20.56
		829.0	-0.70	1 / 1	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
		836.5	-0.70	1 / 48	25.01	22.16	0.165	38.45	-16.29	24.31	0.270	40.61	-16.29
	QPSK	844.0	-0.70	1 / 25	25.17	22.32	0.171	38.45	-16.13	24.47	0.280	40.61	-16.13
		829.0	-0.70	1 / 1	25.15	22.30	0.170	38.45	-16.15	24.45	0.278	40.61	-16.16
		836.5	-0.70	1 / 25	25.03	22.18	0.165	38.45	-16.28	24.33	0.271	40.61	-16.28
	16-QAM	844.0	-0.70	1 / 1	24.78	21.93	0.156	38.45	-16.52	24.08	0.256	40.61	-16.53
		829.0	-0.70	1 / 25	24.16	21.31	0.135	38.45	-17.14	23.46	0.222	40.61	-17.14
15 MHz	π/2 BPSK	829.0	-0.70	1 / 25	22.85	20.00	0.100	38.45	-18.45	22.15	0.164	40.61	-18.46
		829.0	-0.70	1 / 25	20.63	17.78	0.060	38.45	-20.67	19.93	0.098	40.61	-20.68
		831.5	-0.70	1 / 73	25.04	22.19	0.166	38.45	-16.26	24.34	0.272	40.61	-16.26
	QPSK	836.5	-0.70	1 / 1	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
		841.5	-0.70	1 / 1	24.97	22.12	0.163	38.45	-16.34	24.27	0.267	40.61	-16.34
		831.5	-0.70	1 / 73	25.15	22.30	0.170	38.45	-16.15	24.45	0.279	40.61	-16.16
	16-QAM	836.5	-0.70	1 / 1	25.12	22.27	0.169	38.45	-16.18	24.42	0.277	40.61	-16.18
		841.5	-0.70	1 / 1	24.98	22.13	0.163	38.45	-16.32	24.28	0.268	40.61	-16.33
20 MHz	π/2 BPSK	836.5	-0.70	1 / 1	24.49	21.64	0.146	38.45	-16.81	23.79	0.239	40.61	-16.82
		836.5	-0.70	1 / 1	22.98	20.13	0.103	38.45	-18.32	22.28	0.169	40.61	-18.33
		841.5	-0.70	1 / 1	20.57	17.72	0.059	38.45	-20.73	19.87	0.097	40.61	-20.74
	QPSK	834.0	-0.70	1 / 1	25.20	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
		836.5	-0.70	1 / 1	24.92	22.07	0.161	38.45	-16.38	24.22	0.264	40.61	-16.38
		839.0	-0.70	1 / 1	25.15	22.30	0.170	38.45	-16.15	24.45	0.279	40.61	-16.16
	16-QAM	834.0	-0.70	1 / 98	24.95	22.10	0.162	38.45	-16.35	24.25	0.266	40.61	-16.36
		836.5	-0.70	1 / 50	25.04	22.19	0.166	38.45	-16.26	24.34	0.272	40.61	-16.26
20 MHz	QPSK	839.0	-0.70	1 / 1	25.16	22.31	0.170	38.45	-16.14	24.46	0.279	40.61	-16.15
		834.0	-0.70	1 / 50	24.36	21.51	0.142	38.45	-16.94	23.66	0.232	40.61	-16.94
		836.5	-0.70	1 / 50	22.77	19.92	0.098	38.45	-18.53	22.07	0.161	40.61	-18.54
	256-QAM	834.0	-0.70	1 / 98	20.52	17.67	0.059	38.45	-20.78	19.82	0.096	40.61	-20.78

Table 7-9. Antenna 3b ERP/EIRP Data (NR Band n5)

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]	EIRP [dBm]	EIRP [Watts]	EIRP 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	24.75	-0.70	21.90	0.155	38.45	-16.55	24.05	0.254	40.61	-16.56	
				20475	831.5	1	49		20574	841.4	1	0	24.86	-0.70	22.01	0.159	38.45	-16.44	24.16	0.261	40.61	-16.45	
				20600	844.0	1	0		20601	834.1	1	49	24.90	-0.70	22.36	0.166	38.45	-16.40	24.30	0.263	40.61	-16.41	
				20600	844	50	0		20501	834.1	50	0	22.96	-0.70	20.11	0.103	38.45	-18.34	22.26	0.168	40.61	-18.35	
				16-QAM	20600	844	50	0	16-QAM	20501	834.1	50	0	21.94	-0.70	19.09	0.081	38.45	-19.36	21.24	0.133	40.61	-19.37
				64-QAM	20600	844	50	0	64-QAM	20501	834.1	50	0	21.92	-0.70	19.07	0.081	38.45	-19.38	21.22	0.132	40.61	-19.39
			256-QAM	20600	844	50	0	256-QAM	20501	834.1	50	0	19.96	-0.70	17.11	0.051	38.45	-21.34	19.26	0.084	40.61	-21.35	
			QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	24.75	-0.70	21.90	0.155	38.45	-16.55	24.05	0.254	40.61	-16.56	
				20475	831.5	1	49		20574	841.4	1	0	24.86	-0.70	22.01	0.159	38.45	-16.44	24.16	0.261	40.61	-16.45	
				20600	844.0	1	0		20601	834.1	1	49	24.90	-0.70	22.36	0.166	38.45	-16.40	24.30	0.263	40.61	-16.41	
				20600	844	50	0		20501	834.1	50	0	22.96	-0.70	20.11	0.103	38.45	-18.34	22.26	0.168	40.61	-18.35	
				16-QAM	20600	844	50	0	16-QAM	20501	834.1	50	0	21.94	-0.70	19.09	0.081	38.45	-19.36	21.24	0.133	40.61	-19.37
				64-QAM	20600	844	50	0	64-QAM	20501	834.1	50	0	21.92	-0.70	19.07	0.081	38.45	-19.38	21.22	0.132	40.61	-19.39

Table 7-10. Antenna 3b ERP/EIRP Data (ULCA LTE Band 5)

WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	25.11	-0.70	22.26	0.168	38.45	-16.19	24.41	0.276	40.61	-16.19
836.60	WCDMA850	25.17	-0.70	22.32	0.171	38.45	-16.13	24.47	0.280	40.61	-16.14
846.60	WCDMA850	25.14	-0.70	22.29	0.170	38.45	-16.16	24.44	0.278	40.61	-16.16

Table 7-11. Antenna 3b ERP/EIRP Data (WCDMA Cell)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT								Approved by: Technical Manager	
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device								Page 76 of 96	

V2.1 11/9/2021

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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

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 77 of 96

V2.1 11/9/2021

Test Setup

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

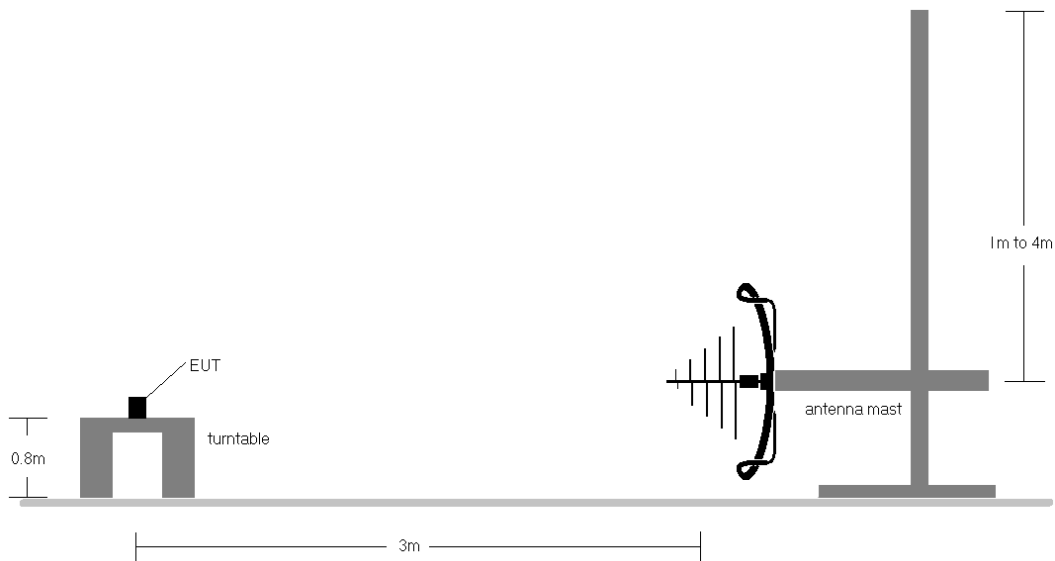


Figure 7-5. Test Instrument & Measurement Setup < 1GHz

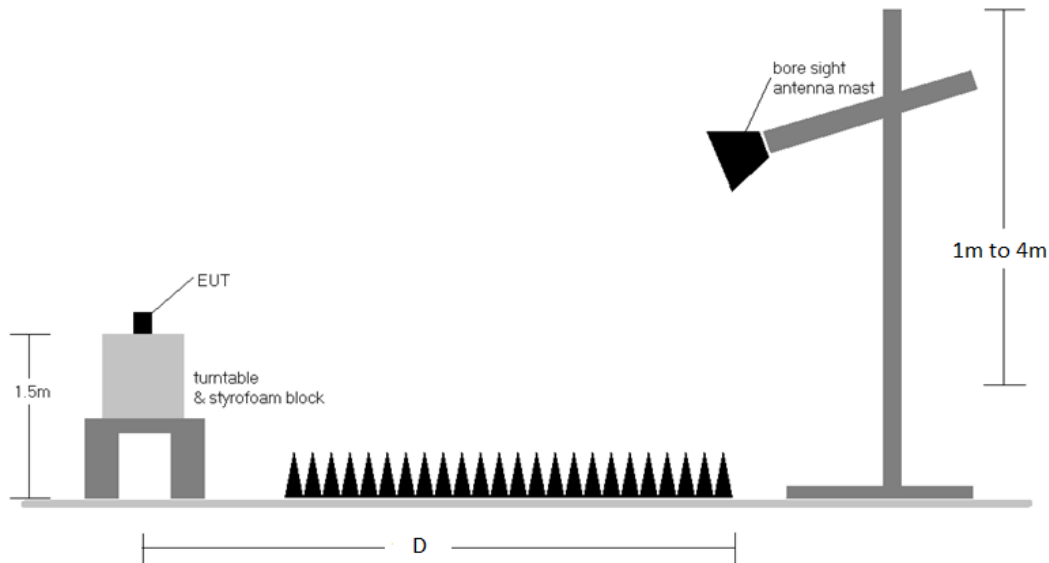




Figure 7-6. Test Instrument & Measurement Setup >1 GHz

FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 78 of 96

V2.1 11/9/2021

Test Notes

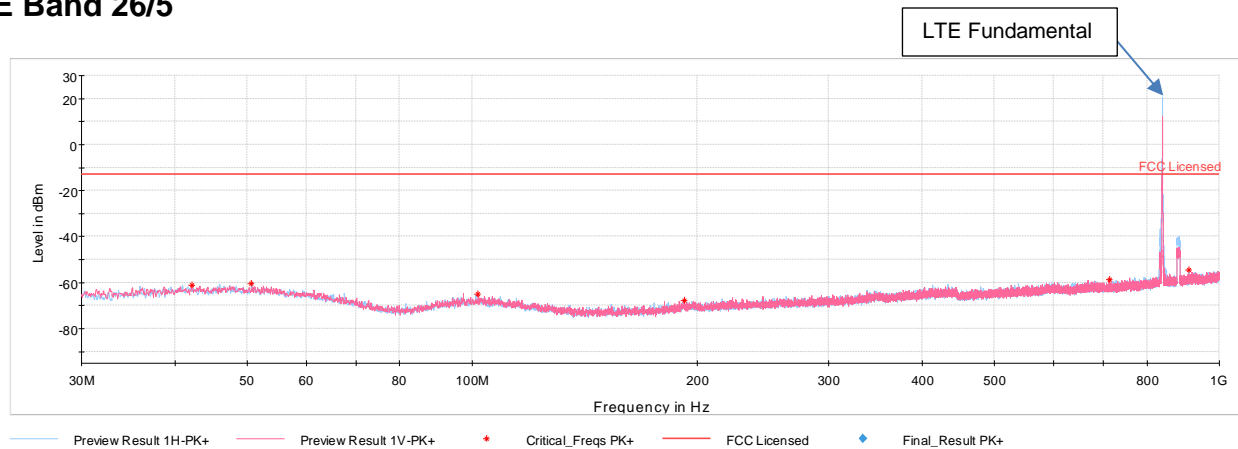
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m})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

FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 79 of 96

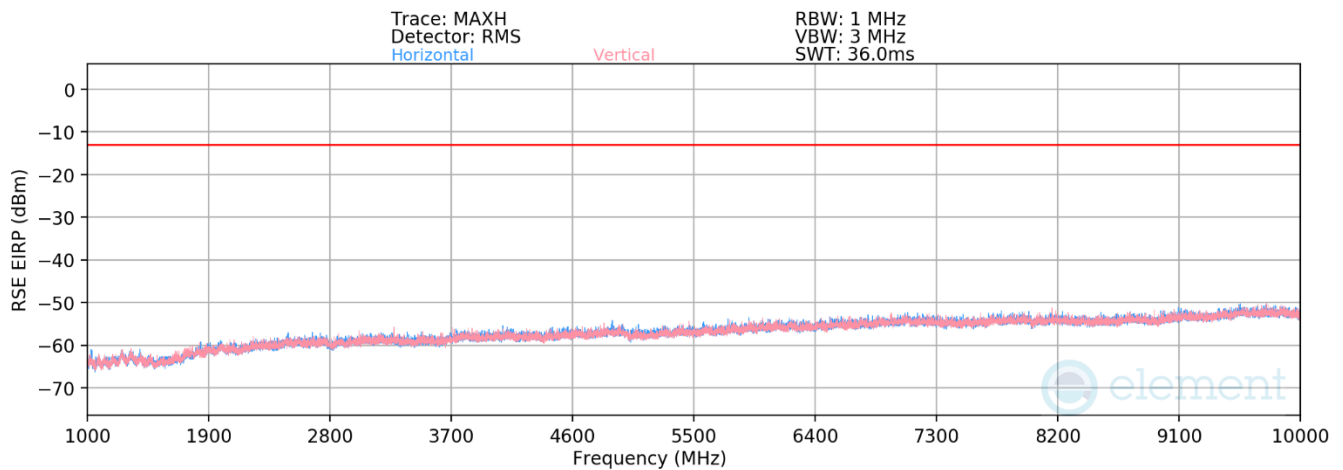
V2.1 11/9/2021

7.6.1 Antenna 4 – Radiated Spurious Emission Measurements


LTE Band 26/5



Plot 7-103. Antenna 4 Radiated Spurious Plot below 1GHz (LTE Band 26/5)



Plot 7-104. Antenna 4 Radiated Spurious Plot above 1GHz (LTE Band 26/5)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 80 of 96

V2.1 11/9/2021

Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 37

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	-	-	-75.71	-2.63	28.66	-66.60	-13.00	-53.60
2487.0	H	400	290	-76.71	1.99	32.28	-62.98	-13.00	-49.98
3316.0	H	-	-	-78.27	3.39	32.12	-63.14	-13.00	-50.14
4145.0	H	-	-	-78.79	5.50	33.71	-61.55	-13.00	-48.55
4974.0	H	-	-	-79.19	6.37	34.18	-61.07	-13.00	-48.07

Table 7-12. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 37


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	-	-	-75.82	-2.50	28.68	-66.58	-13.00	-53.58
2509.5	H	-	-	-76.07	2.35	33.28	-61.98	-13.00	-48.98
3346.0	H	-	-	-76.35	3.12	33.77	-61.48	-13.00	-48.48
4182.5	H	-	-	-77.68	5.41	34.73	-60.53	-13.00	-47.53
5019.0	H	-	-	-77.82	6.08	35.26	-60.00	-13.00	-47.00

Table 7-13. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 37

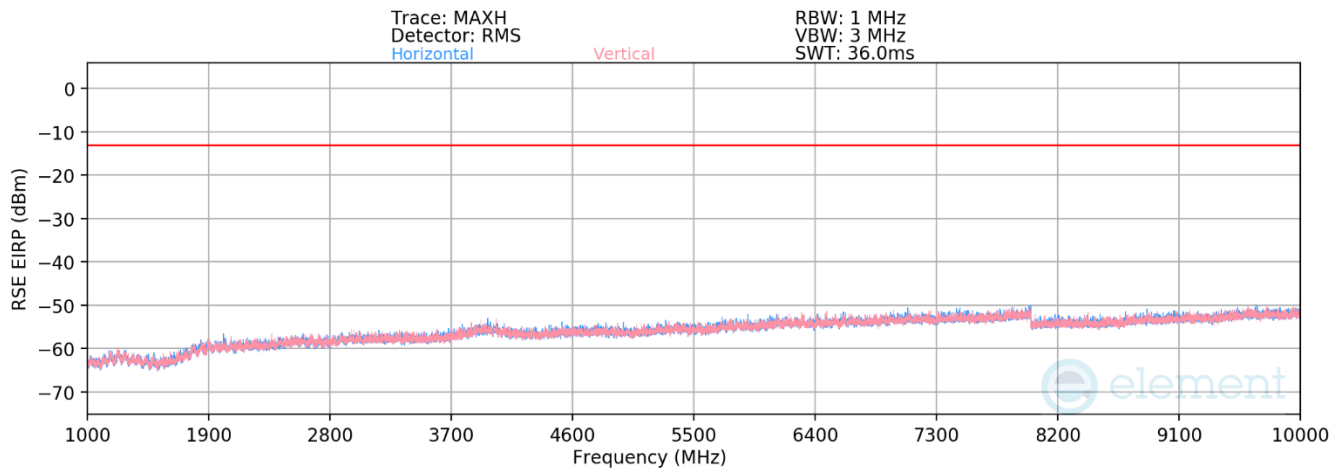
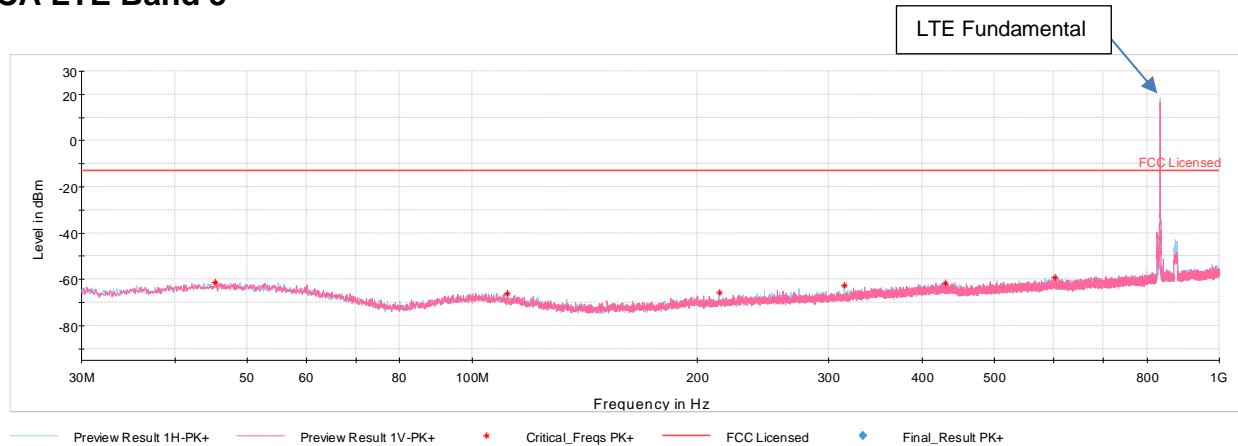
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	-	-	-75.97	-2.44	28.59	-66.66	-13.00	-53.66
2532.0	H	376	296	-74.62	2.34	34.72	-60.54	-13.00	-47.54
3376.0	H	-	-	-77.26	3.26	33.00	-62.26	-13.00	-49.26
4220.0	H	-	-	-78.03	5.17	34.14	-61.12	-13.00	-48.12
5064.0	H	-	-	-78.94	6.31	34.37	-60.89	-13.00	-47.89


Table 7-14. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – High Channel)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device		Page 81 of 96

V2.1 11/9/2021

ULCA LTE Band 5



FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 82 of 96

V2.1 11/9/2021

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	-	-	-75.23	-4.23	27.54	-67.71	-13.00	-54.71
2487.0	H	-	-	-75.89	0.23	31.34	-63.92	-13.00	-50.92
3316.0	H	-	-	-76.68	2.04	32.36	-62.90	-13.00	-49.90

Table 7-15. Antenna 4 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

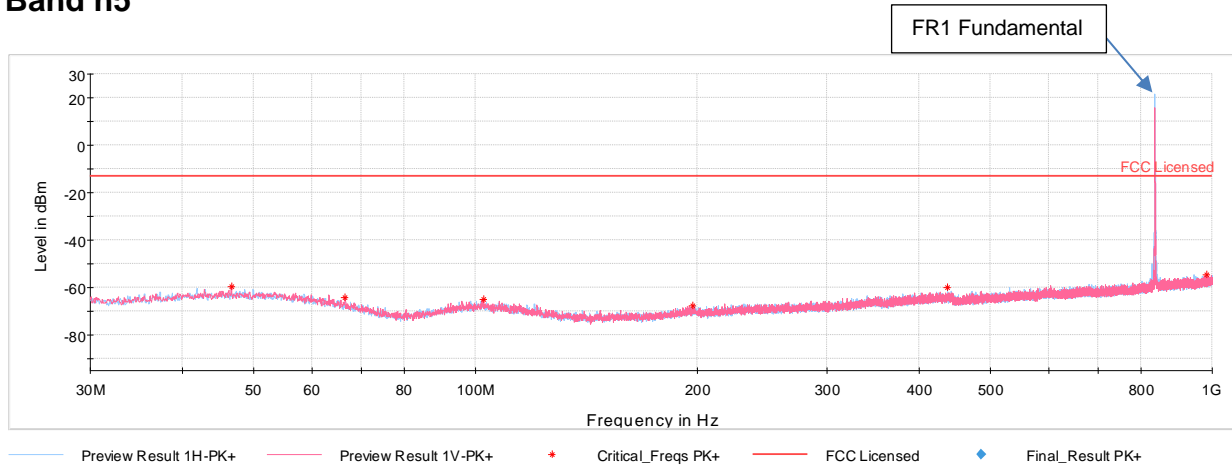
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	-	-	-75.31	-3.79	27.90	-67.36	-13.00	-54.36
2532.0	H	-	-	-76.10	0.73	31.63	-63.62	-13.00	-50.62
3376.0	H	-	-	-76.70	1.85	32.15	-63.10	-13.00	-50.10

Table 7-16. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

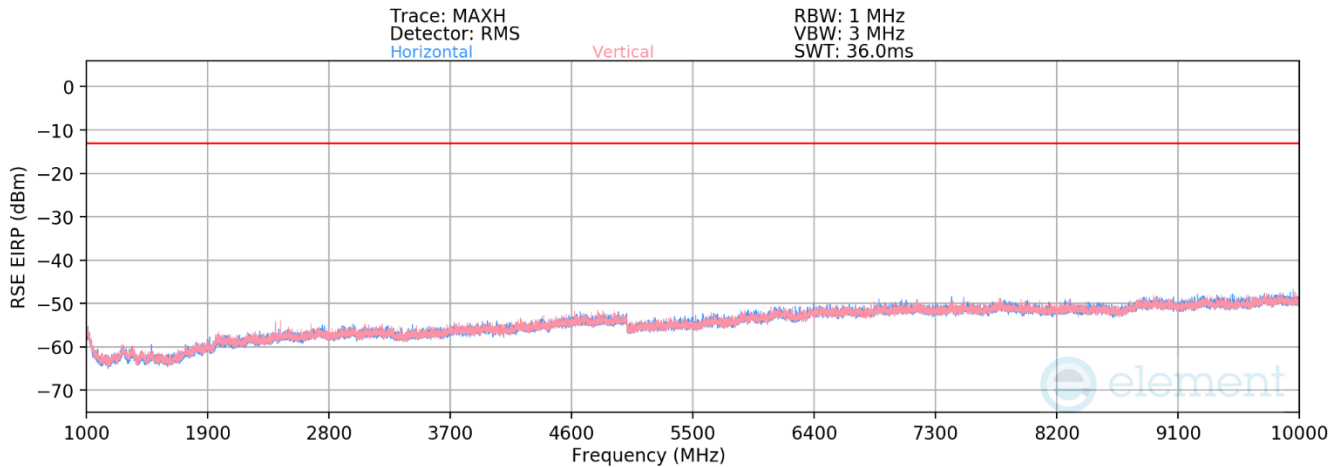
FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device		Page 83 of 96

V2.1 11/9/2021


NR Band n5



Plot 7-107. Antenna 4 Radiated Spurious Plot below 1GHz (NR Band n5)



Plot 7-108. Antenna 4 Radiated Spurious Plot above 1GHz (NR Band n5)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 84 of 96

V2.1 11/9/2021

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	-	-	-77.23	-3.78	25.99	-69.26	-13.00	-56.26
2502.0	H	-	-	-77.75	1.62	30.87	-64.39	-13.00	-51.39
3336.0	H	-	-	-78.28	2.31	31.03	-64.23	-13.00	-51.23

Table 7-17. Antenna 4 Radiated Spurious Data (NR Band 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	-	-	-76.91	-3.67	26.42	-68.84	-13.00	-55.84
2509.5	H	-	-	-77.90	1.64	30.74	-64.51	-13.00	-51.51
3346.0	H	-	-	-78.30	2.37	31.07	-64.19	-13.00	-51.19

Table 7-18. Antenna 4 Radiated Spurious Data (NR Band n5 – Mid Channel)

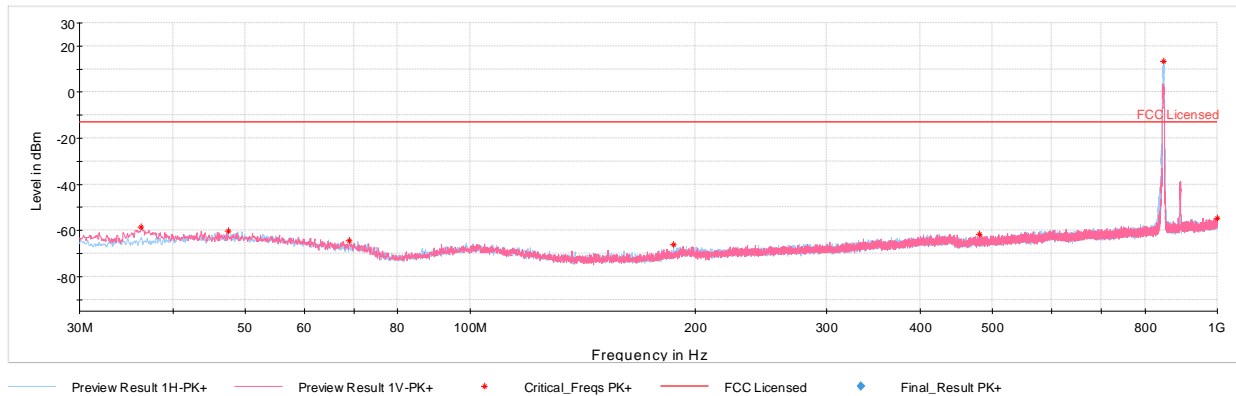
Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

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	-	-	-77.04	-3.53	26.43	-68.83	-13.00	-55.83
2517.0	H	-	-	-78.10	1.69	30.59	-64.67	-13.00	-51.67
3356.0	H	-	-	-78.44	2.43	30.99	-64.27	-13.00	-51.27

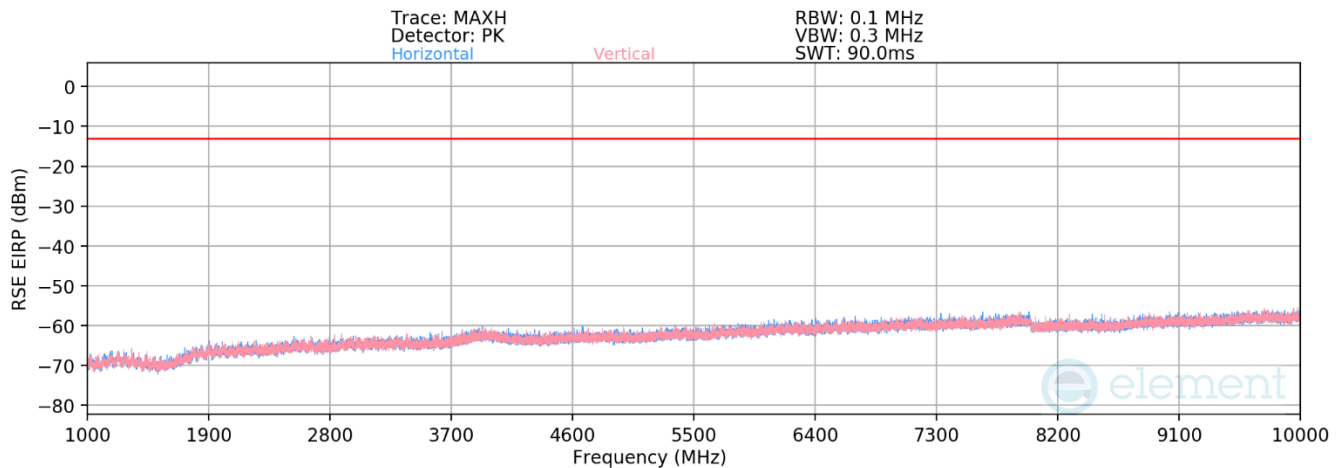
Table 7-19. Antenna 4 Radiated Spurious Data (NR Band n5 – High Channel)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 85 of 96


WCDMA Cell



Plot 7-109. Antenna 4 Radiated Spurious Plot below 1GHz (WCDMA Cell)



Plot 7-110. Antenna 4 Radiated Spurious Plot above 1GHz (WCDMA Cell)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 86 of 96

V2.1 11/9/2021

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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	-	-	-75.06	-4.32	27.62	-67.64	-13.00	-54.64
2479.2	H	-	-	-75.93	0.19	31.26	-64.00	-13.00	-51.00
3305.6	H	-	-	-76.55	2.09	32.54	-62.72	-13.00	-49.72

Table 7-20. Antenna 4 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	-	-	-75.29	-3.99	27.72	-67.54	-13.00	-54.54
2509.8	H	-	-	-76.04	0.40	31.36	-63.89	-13.00	-50.89
3346.4	H	-	-	-76.90	2.06	32.16	-63.10	-13.00	-50.10

Table 7-21. Antenna 4 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	-	-	-75.30	-3.72	27.98	-67.28	-13.00	-54.28
2539.8	H	-	-	-76.36	0.80	31.44	-63.82	-13.00	-50.82
3386.4	H	-	-	-76.74	1.87	32.13	-63.13	-13.00	-50.13

Table 7-22. Antenna 4 Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 87 of 96

V2.1 11/9/2021

7.6.2 Antenna 3b – Radiated Spurious Emission Measurements

LTE Band 26/5

Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 37

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	V	-	-	-75.58	-2.63	28.79	-66.47	-13.00	-53.47
2487.0	V	-	-	-75.69	1.99	33.30	-61.96	-13.00	-48.96
3316.0	V	-	-	-77.33	3.39	33.06	-62.20	-13.00	-49.20
4145.0	V	-	-	-78.53	5.50	33.97	-61.29	-13.00	-48.29

Table 7-23. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 37


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	-	-	-75.64	-2.50	28.86	-66.40	-13.00	-53.40
2509.5	V	-	-	-76.62	2.35	32.73	-62.53	-13.00	-49.53
3346.0	V	-	-	-77.20	3.12	32.92	-62.33	-13.00	-49.33
4182.5	V	-	-	-77.97	5.41	34.44	-60.82	-13.00	-47.82

Table 7-24. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 37

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	-	-	-75.52	-2.44	29.04	-66.21	-13.00	-53.21
2532.0	V	-	-	-76.53	2.34	32.81	-62.45	-13.00	-49.45
3376.0	V	-	-	-76.96	3.26	33.30	-61.96	-13.00	-48.96
4220.0	V	-	-	-77.03	5.17	35.14	-60.12	-13.00	-47.12
5064.0	V	-	-	-78.00	6.31	35.31	-59.95	-13.00	-46.95

Table 7-25. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – High Channel)

FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 88 of 96

V2.1 11/9/2021

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	-	-	-75.28	-4.23	27.49	-67.76	-13.00	-54.76
2487.0	H	-	-	-75.70	0.23	31.53	-63.73	-13.00	-50.73
3316.0	H	-	-	-76.89	2.04	32.15	-63.11	-13.00	-50.11

Table 7-26. Antenna 3b 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	-	-	-75.01	-3.79	28.20	-67.06	-13.00	-54.06
2532.0	H	-	-	-76.16	0.73	31.57	-63.68	-13.00	-50.68
3376.0	H	-	-	-76.40	1.85	32.45	-62.80	-13.00	-49.80

Table 7-27. Antenna 3b Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device		Page 89 of 96

V2.1 11/9/2021

NR Band 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	-	-	-77.34	-3.78	25.88	-69.37	-13.00	-56.37
2502.0	H	-	-	-77.62	1.62	31.00	-64.26	-13.00	-51.26
3336.0	H	-	-	-78.48	2.31	30.83	-64.43	-13.00	-51.43

Table 7-28. Antenna 3b Radiated Spurious Data (NR Band 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	-	-	-77.07	-3.67	26.26	-69.00	-13.00	-56.00
2509.5	H	-	-	-78.09	1.64	30.55	-64.70	-13.00	-51.70
3346.0	H	-	-	-78.46	2.37	30.91	-64.35	-13.00	-51.35

Table 7-29. Antenna 3b Radiated Spurious Data (NR Band 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	-	-	-77.28	-3.53	26.19	-69.07	-13.00	-56.07
2517.0	H	-	-	-77.80	1.69	30.89	-64.37	-13.00	-51.37
3356.0	H	-	-	-78.50	2.43	30.93	-64.33	-13.00	-51.33

Table 7-30. Antenna 3b Radiated Spurious Data (NR Band n5 – High Channel)

FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 90 of 96

V2.1 11/9/2021

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	-	-	-77.95	-4.32	24.73	-70.53	-13.00	-57.53
2479.2	V	-	-	-78.37	0.19	28.82	-66.44	-13.00	-53.44
3305.6	V	-	-	-76.60	2.09	32.49	-62.77	-13.00	-49.77

Table 7-31. Antenna 3b 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	-	-	-78.01	-3.99	25.00	-70.26	-13.00	-57.26
2509.8	V	-	-	-78.63	0.40	28.77	-66.48	-13.00	-53.48
3346.4	V	-	-	-76.69	2.06	32.37	-62.89	-13.00	-49.89

Table 7-32. Antenna 3b 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	-	-	-77.60	-3.72	25.68	-69.58	-13.00	-56.58
2539.8	V	-	-	-78.49	0.80	29.31	-65.95	-13.00	-52.95
3386.4	V	-	-	-76.52	1.87	32.35	-62.91	-13.00	-49.91

Table 7-33. Antenna 3b Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 91 of 96

V2.1 11/9/2021

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

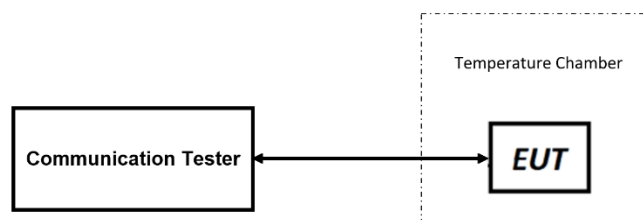



Figure 7-7. Test Instrument & Measurement Setup

Test Notes

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


FCC ID: BCGA2757		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 92 of 96

V2.1 11/9/2021

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	836,500,001	1	0.0000001
		- 20	836,500,000	0	0.0000000
		- 10	836,499,997	-3	-0.0000004
		0	836,499,998	-2	-0.0000002
		+ 10	836,499,997	-3	-0.0000004
		+ 20 (Ref)	836,500,000	0	0.0000000
		+ 30	836,499,998	-2	-0.0000002
		+ 40	836,500,002	2	0.0000002
		+ 50	836,499,997	-3	-0.0000004
Battery Endpoint	3.23	+ 20	836,500,002	2	0.0000002

Table 7-34. LTE Band 26/5 Frequency Tolerance Data


FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 93 of 96

V2.1 11/9/2021

Frequency Tolerance / Temperature Variation

NR Band n5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,499,691	-309	-0.0000369
		- 20	836,499,528	-472	-0.0000564
		- 10	836,499,537	-463	-0.0000553
		0	836,499,545	-455	-0.0000544
		+ 10	836,499,534	-466	-0.0000557
		+ 20 (Ref)	836,500,000	0	0.0000000
		+ 30	836,499,642	-358	-0.0000428
		+ 40	836,499,524	-476	-0.0000569
		+ 50	836,499,625	-375	-0.0000448
Battery Endpoint	3.23	+ 20	836,499,567	-433	-0.0000518

Table 7-35. NR Band n5 Frequency Tolerance Data


FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 94 of 96

V2.1 11/9/2021

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	836,600,001	1	0.0000001
		- 20	836,600,001	1	0.0000001
		- 10	836,599,998	-2	-0.0000002
		0	836,600,002	2	0.0000002
		+ 10	836,599,998	-2	-0.0000002
		+ 20 (Ref)	836,600,000	0	0.0000000
		+ 30	836,599,998	-2	-0.0000002
		+ 40	836,599,998	-2	-0.0000002
		+ 50	836,600,000	0	0.0000000
Battery Endpoint	3.23	+ 20	836,599,999	-1	-0.0000001


Table 7-36. WCDMA Cell Frequency Tolerance Data

FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device	Page 95 of 96

V2.1 11/9/2021

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2757** complies with all the requirements of Part 22 of the FCC rules.

FCC ID: BCGA2757	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-01-R1.BCG	Test Dates: 05/30/2022 - 09/11/2022	EUT Type: Tablet Device
		Page 96 of 96

V2.1 11/9/2021

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