

LTE Band 41

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-79.77	7.61	34.84	-60.42	-25.00	-35.42
7518.0	V	-	-	-83.16	10.90	34.74	-60.52	-25.00	-35.52
10024.0	V	-	-	-84.50	13.74	36.24	-59.02	-25.00	-34.02

Table 7-125. Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-79.80	7.62	34.82	-60.44	-25.00	-35.44
7779.0	V	258	5	-70.84	10.79	46.95	-48.31	-25.00	-23.31
10372.0	V	-	-	-81.77	14.80	40.03	-55.23	-25.00	-30.23
12965.0	V	-	-	-83.31	18.36	42.05	-53.20	-25.00	-28.20
15558.0	V	-	-	-83.25	21.82	45.57	-49.68	-25.00	-24.68

Table 7-126. Radiated Spurious Data (LTE Band 41 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-79.75	8.30	35.55	-59.70	-25.00	-34.70
8040.0	V	266	8	-74.30	10.99	43.69	-51.57	-25.00	-26.57
10720.0	V	-	-	-82.11	15.88	40.77	-54.48	-25.00	-29.48
13400.0	V	-	-	-82.87	18.38	42.51	-52.75	-25.00	-27.75
16080.0	V	-	-	-83.69	22.41	45.72	-49.53	-25.00	-24.53

Table 7-127. Radiated Spurious Data (LTE Band 41 – High Channel)

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NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-77.69	4.15	33.46	-61.80	-40.00	-21.80
6922.5	V	-	-	-79.88	8.46	35.58	-59.68	-40.00	-19.68
9230.0	V	-	-	-82.10	11.42	36.32	-58.94	-40.00	-18.94

Table 7-128. Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-77.70	3.96	33.26	-61.99	-40.00	-21.99
6930.0	V	-	-	-79.77	8.37	35.60	-59.66	-40.00	-19.66
9240.0	V	-	-	-82.09	11.33	36.24	-59.02	-40.00	-19.02

Table 7-129. Radiated Spurious Data (NR Band n30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-77.71	3.92	33.21	-62.05	-40.00	-22.05
6937.5	V	-	-	-79.68	8.30	35.62	-59.64	-40.00	-19.64
9250.0	V	-	-	-82.05	11.27	36.22	-59.04	-40.00	-19.04

Table 7-130. Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2435	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
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NR Band n7

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-77.65	3.89	33.24	-62.02	-25.00	-37.02
7560.0	V	-	-	-80.23	8.93	35.70	-59.56	-25.00	-34.56
10080.0	V	-	-	-83.13	13.17	37.04	-58.22	-25.00	-33.22

Table 7-131. Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-77.86	3.99	33.13	-62.12	-25.00	-37.12
7605.0	V	-	-	-80.27	9.07	35.80	-59.45	-25.00	-34.45
10140.0	V	-	-	-83.23	13.37	37.14	-58.12	-25.00	-33.12

Table 7-132. Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-77.69	4.23	33.54	-61.72	-25.00	-36.72
7650.0	V	-	-	-80.23	8.86	35.63	-59.63	-25.00	-34.63
10200.0	V	-	-	-83.32	13.78	37.46	-57.80	-25.00	-32.80

Table 7-133. Radiated Spurious Data (NR Band n7 – High Channel)

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NR Band n41

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-80.04	7.60	34.56	-60.70	-25.00	-35.70
7638.0	V	-	-	-80.64	11.17	37.53	-57.73	-25.00	-32.73
10184.0	V	-	-	-81.86	14.24	39.38	-55.88	-25.00	-30.88

Table 7-134. Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-79.99	7.62	34.63	-60.63	-25.00	-35.63
7779.0	V	-	-	-80.22	10.79	37.57	-57.69	-25.00	-32.69
10372.0	V	-	-	-81.84	14.80	39.96	-55.30	-25.00	-30.30

Table 7-135. Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-79.68	7.43	34.75	-60.50	-25.00	-35.50
7920.0	V	-	-	-80.92	11.29	37.37	-57.89	-25.00	-32.89
10560.0	V	-	-	-81.99	14.86	39.87	-55.38	-25.00	-30.38

Table 7-136. Radiated Spurious Data (NR Band n41 – High Channel)

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ULCA - LTE B7

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-77.78	3.94	33.16	-62.10	-25.00	-37.10
7530.0	V	-	-	-79.92	8.95	36.03	-59.23	-25.00	-34.23
10040.0	V	-	-	-82.66	13.28	37.62	-57.64	-25.00	-32.64

Table 7-137. Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-77.43	3.99	33.56	-61.69	-25.00	-36.69
7605.0	V	-	-	-79.81	9.07	36.26	-58.99	-25.00	-33.99
10140.0	V	-	-	-82.82	13.37	37.55	-57.71	-25.00	-32.71

Table 7-138. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	V	-	-	-77.53	4.41	33.88	-61.37	-25.00	-36.37
7680.0	H	119	240	-79.04	9.02	36.98	-58.28	-25.00	-33.28
10240.0	H	-	-	-82.99	14.22	38.23	-57.03	-25.00	-32.03
12800.0	H	-	-	-84.39	18.77	41.38	-53.87	-25.00	-28.87
15360.0	H	-	-	-84.00	20.60	43.60	-51.65	-25.00	-26.65

Table 7-139. Radiated Spurious Data (ULCA LTE B7 – High Channel)

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ULCA - LTE B41

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-79.35	7.58	35.23	-60.03	-25.00	-35.03
7518.0	V	-	-	-80.12	10.86	37.74	-57.52	-25.00	-32.52
10024.0	V	-	-	-80.92	13.71	39.79	-55.46	-25.00	-30.46

Table 7-140. Radiated Spurious Data (ULCA LTE B41 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-79.25	7.66	35.41	-59.85	-25.00	-34.85
7779.0	V	288	5	-79.76	10.80	38.04	-57.22	-25.00	-32.22
10372.0	V	-	-	-81.02	14.81	40.79	-54.47	-25.00	-29.47
12965.0	V	-	-	-82.06	18.38	43.32	-51.94	-25.00	-26.94
15558.0	V	-	-	-82.38	21.84	46.46	-48.80	-25.00	-23.80

Table 7-141. Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-79.11	8.32	36.21	-59.04	-25.00	-34.04
8040.0	V	252	25	-79.17	11.03	38.86	-56.40	-25.00	-31.40
10720.0	V	-	-	-80.87	15.87	42.00	-53.25	-25.00	-28.25
13400.0	V	-	-	-81.39	18.38	43.99	-51.27	-25.00	-26.27
16080.0	V	-	-	-82.52	22.40	46.88	-48.38	-25.00	-23.38

Table 7-142. Radiated Spurious Data (ULCA LTE B41 – High Channel)

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7.8 Frequency Stability / Temperature Variation

§2.1055, §27.54

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

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

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26 2015

TIA-603-E-2016

Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

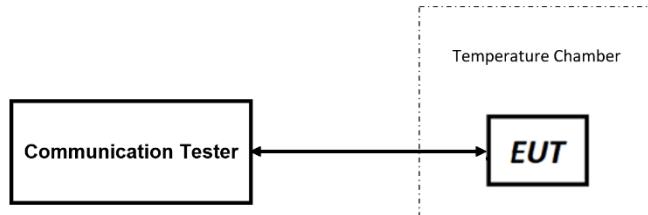


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 30							
		Low Channel Frequency (Hz):		2,307,500,000			
		High Channel Frequency (Hz):		2,312,500,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,034	2,312,500,030	24	17	0.0000010
		- 20	2,307,500,029	2,312,500,029	19	16	0.0000008
		- 10	2,307,500,028	2,312,500,027	18	14	0.0000008
		0	2,307,500,030	2,312,500,030	20	17	0.0000009
		+ 10	2,307,500,019	2,312,500,035	9	22	0.0000010
		+ 20 (Ref)	2,307,500,010	2,312,500,013	0	0	0.0000000
		+ 30	2,307,500,022	2,312,500,033	12	20	0.0000009
		+ 40	2,307,500,019	2,312,500,036	9	23	0.0000010
		+ 50	2,307,500,028	2,312,500,030	18	17	0.0000008
		Battery Endpoint	3.23	+ 20	2,307,500,023	2,312,500,021	13

Table 7-143. LTE Band 30 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 7							
		Low Channel Frequency (Hz):		2,510,000,000			
		High Channel Frequency (Hz):		2,560,000,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,510,000,032	2,560,000,030	12	16	0.000006
		- 20	2,510,000,040	2,560,000,027	20	13	0.000008
		- 10	2,510,000,027	2,560,000,026	7	12	0.000005
		0	2,510,000,033	2,560,000,038	13	24	0.000009
		+ 10	2,510,000,028	2,560,000,029	8	15	0.000006
		+ 20 (Ref)	2,510,000,020	2,560,000,014	0	0	0.000000
		+ 30	2,510,000,033	2,560,000,034	13	20	0.000008
		+ 40	2,510,000,037	2,560,000,037	17	23	0.000009
		+ 50	2,510,000,033	2,560,000,030	13	16	0.000006
		Battery Endpoint	3.23	+ 20	2,510,000,033	2,560,000,029	13
					13	15	0.000006

Table 7-144. LTE Band 7 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 41							
		Low Channel Frequency (Hz):		2,506,000,000			
		High Channel Frequency (Hz):		2,580,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,506,000,029	2,580,000,037	19	19	0.0000008
		- 20	2,506,000,018	2,580,000,030	8	12	0.0000005
		- 10	2,506,000,027	2,580,000,032	17	14	0.0000007
		0	2,506,000,030	2,580,000,039	20	21	0.0000008
		+ 10	2,506,000,030	2,580,000,032	20	14	0.0000008
		+ 20 (Ref)	2,506,000,010	2,580,000,018	0	0	0.0000000
		+ 30	2,506,000,025	2,580,000,039	15	21	0.0000008
		+ 40	2,506,000,032	2,580,000,027	22	9	0.0000009
		+ 50	2,506,000,020	2,580,000,036	10	18	0.0000007
		Battery Endpoint	3.23	+ 20	2,506,000,028	2,580,000,038	18
					18	20	0.0000008

Table 7-145. LTE Band 41 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n30							
		Low Channel Frequency (Hz):		2,307,500,000			
		High Channel Frequency (Hz):		2,312,500,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,158	2,312,500,199	86	96	0.0000042
		- 20	2,307,500,179	2,312,500,202	107	99	0.0000046
		- 10	2,307,500,150	2,312,500,197	78	94	0.0000041
		0	2,307,500,172	2,312,500,191	100	88	0.0000043
		+ 10	2,307,500,152	2,312,500,200	80	97	0.0000042
		+ 20 (Ref)	2,307,500,072	2,312,500,103	0	0	0.0000000
		+ 30	2,307,500,162	2,312,500,185	90	82	0.0000039
		+ 40	2,307,500,151	2,312,500,176	79	73	0.0000034
		+ 50	2,307,500,173	2,312,500,210	101	107	0.0000046
		Battery Endpoint	3.23	+ 20	2,307,500,176	2,312,500,201	104

Table 7-146. NR Band n30 Frequency Stability Data

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n7							
		Low Channel Frequency (Hz):		2,510,000,000			
		High Channel Frequency (Hz):		2,560,000,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,510,000,160	2,560,000,210	69	107	0.0000042
		- 20	2,510,000,166	2,560,000,202	75	99	0.0000039
		- 10	2,510,000,164	2,560,000,199	73	96	0.0000037
		0	2,510,000,192	2,560,000,194	101	91	0.0000040
		+ 10	2,510,000,194	2,560,000,179	103	76	0.0000041
		+ 20 (Ref)	2,510,000,091	2,560,000,103	0	0	0.0000000
		+ 30	2,510,000,197	2,560,000,199	106	96	0.0000042
		+ 40	2,510,000,184	2,560,000,201	93	98	0.0000038
		+ 50	2,510,000,174	2,560,000,202	83	99	0.0000039
		Battery Endpoint	3.23	+ 20	2,510,000,190	2,560,000,205	99
					99	102	0.0000040

Table 7-147. NR Band n7 Frequency Stability Data

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device		Page 268 of 274

Frequency Stability / Temperature Variation

NR Band n41							
		Low Channel Frequency (Hz):		2,546,000,000			
		High Channel Frequency (Hz):		2,640,000,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,546,000,192	2,640,000,159	95	73	0.0000037
		- 20	2,546,000,203	2,640,000,182	106	96	0.0000042
		- 10	2,546,000,182	2,640,000,175	85	89	0.0000034
		0	2,546,000,182	2,640,000,185	85	99	0.0000037
		+ 10	2,546,000,173	2,640,000,189	76	103	0.0000039
		+ 20 (Ref)	2,546,000,097	2,640,000,086	0	0	0.0000000
		+ 30	2,546,000,187	2,640,000,182	90	96	0.0000036
		+ 40	2,546,000,172	2,640,000,190	75	104	0.0000039
		+ 50	2,546,000,194	2,640,000,176	97	90	0.0000038
		Battery Endpoint	3.23	+ 20	2,546,000,176	2,640,000,181	79

Table 7-148. NR Band n41PC2 Frequency Stability Data

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device		Page 269 of 274

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2435** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2435	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device		Page 270 of 274

9.0 APPENDIX A

Antenna gains provided by manufacturer.

Band	Horizontal (dBi)	Vertical (dBi)
B1	1.3	1.1
B2	1.5	1.3
B3	0.5	-0.5
B5	-3.1	-2.6
B7	-3.1	-0.3
B8	-1.7	-2.8
B11	-1.1	-4
B13	-1.5	-1.9
B17	-2.4	-1.9
B20	-3.4	-2.6
B21	-1.4	-3.9
B28	-2.5	-1.9
B30	-2.8	-2.1
B34	-3.1	-0.8
B39	1.5	0.8
B40	-2.6	-2.1
B41	-3.2	-0.4
B42	-1.2	-3.4
B48	-1.2	-3.5
B66	0.4	-0.9
B71	-1.9	-2.1
n41	-3.2	-0.4
n70	-1.6	-1.9
n77	-0.6	-2.6
n78	-2.9	-2.6
n79	0.1	-0.3

Table 9-1. Cellular Antenna Gain (ANT 1); Type IFA

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device		Page 271 of 274

Band	Horizontal (dBi)	Vertical (dBi)
B1	0.6	0.6
B2	1.4	0.5
B3	2.1	0.7
B5	-3.3	-1.3
B7	-3.1	-2.7
B8	-2.2	-3.2
B11	0.1	-2.3
B13	-2.7	-3
B17	-2.5	-2.3
B20	-2.6	-1.7
B21	0.2	-1.9
B28	-2.2	-1.1
B30	-4.1	-3.8
B34	-1.62	0.31
B39	-1.4	0.6
B40	-5.5	-1.2
B41	-5.6	-2.7
B42	-1.5	-0.1
B48	-1.5	0
B66	2.3	0.8
B71	-3.1	-3.6
n41	-8.8	-2.7
n70	2	0.7
n77	-1.8	-0.1
n78	-1	0.6
n79	-2.9	-0.6

Table 9-2. Cellular Antenna Gain (ANT 3); Type IFA

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 272 of 274

Band	Horizontal (dBi)	Vertical (dBi)
B1	-3.5	-1.3
B2	-3.4	-2.7
B3	-3.7	-3.2
B7	-1.5	0.2
B30	-2.6	-0.3
B39	-3.7	-3
B40	-2.6	0.3
B41	-1.9	-0.4
B42	-2.6	-1
B48	-2.5	-1.6
B66	-3.4	-3.1
n41	-1.9	-0.4
n70	-3.4	-3.1
n77	-1.5	-2.6
n78	-1.6	-2.6
n79	0.1	0.3

Table 9-3. Cellular Antenna Gain (ANT 4b); Type IFA

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 273 of 274

Band	Horizontal (dBi)	Vertical (dBi)
B1	-3.3	-2.9
B2	-4.9	-4
B3	-4.5	-5
B7	0	-0.1
B30	-0.6	0.7
B39	-4.7	-4.3
B40	-0.3	1.1
B41	-0.3	-0.8
B66	-4.6	-5.5
n41	-0.3	-0.8
n70	-4.9	-4.9

Table 9-4. Cellular Antenna Gain (ANT 2b); Type IFA

FCC ID: BCGA2435	 element PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device		Page 274 of 274