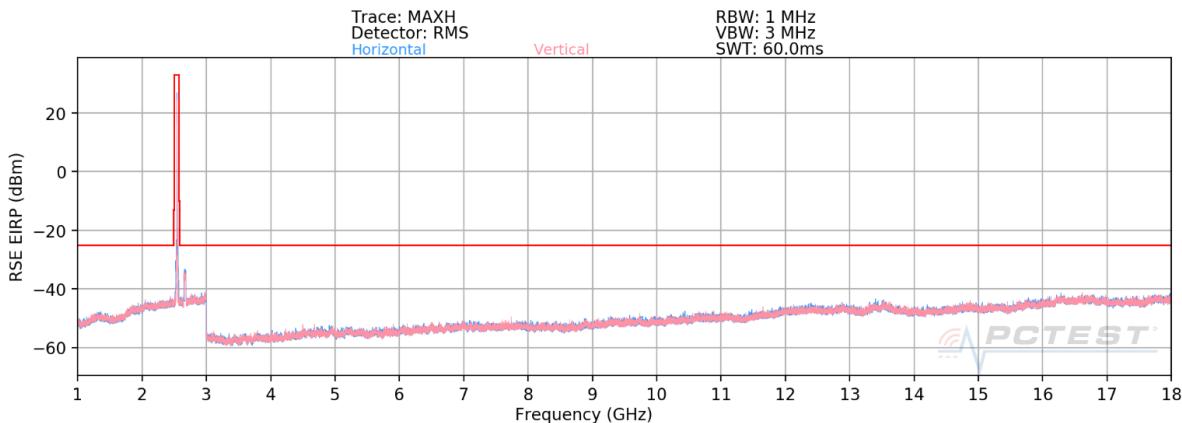
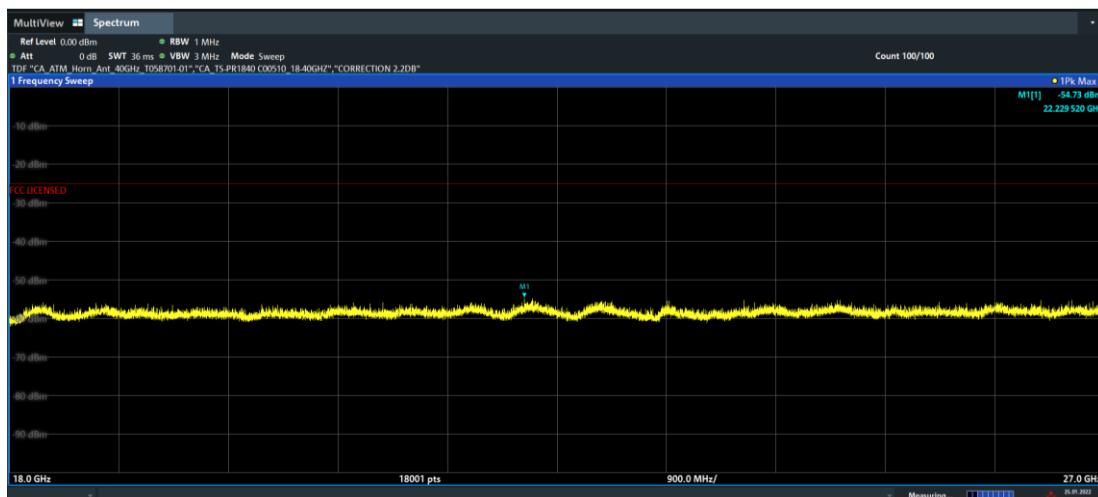


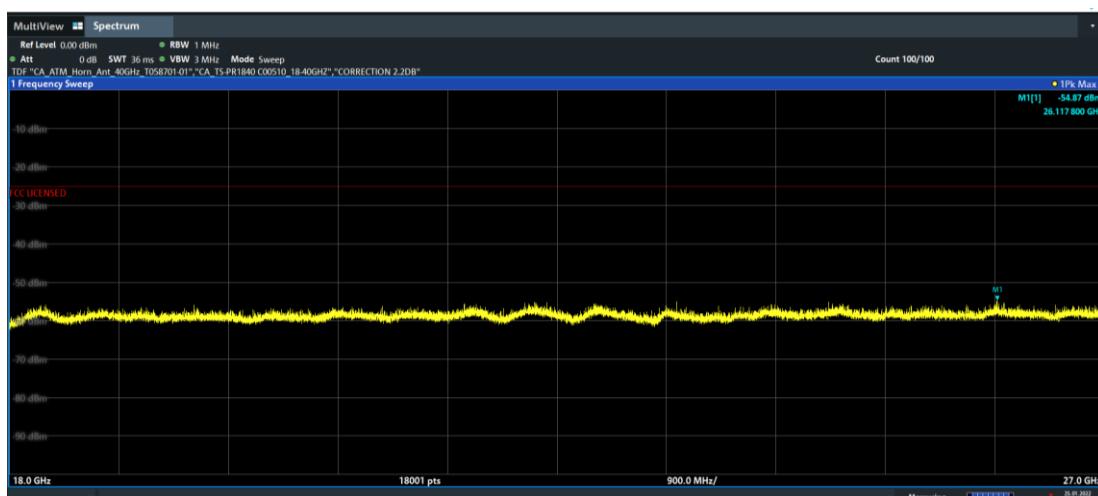
## ULCA - LTE B7



Plot 7-312. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE B7)



Plot 7-313. Antenna 4 Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. H)



Plot 7-314. Antenna 4 Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. V)

FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device		Page 227 of 266

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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-81.70	8.88	34.18	-61.08	-25.00	-36.08
7530.0	H	-	-	-82.90	12.02	36.12	-59.14	-25.00	-34.14
10040.0	H	-	-	-84.13	14.89	37.76	-57.50	-25.00	-32.50

**Table 7-64. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-82.34	9.43	34.09	-61.17	-25.00	-36.17
7605.0	H	-	-	-83.48	13.19	36.71	-58.55	-25.00	-33.55
10140.0	H	-	-	-84.45	15.62	38.17	-57.09	-25.00	-32.09

**Table 7-65. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)**

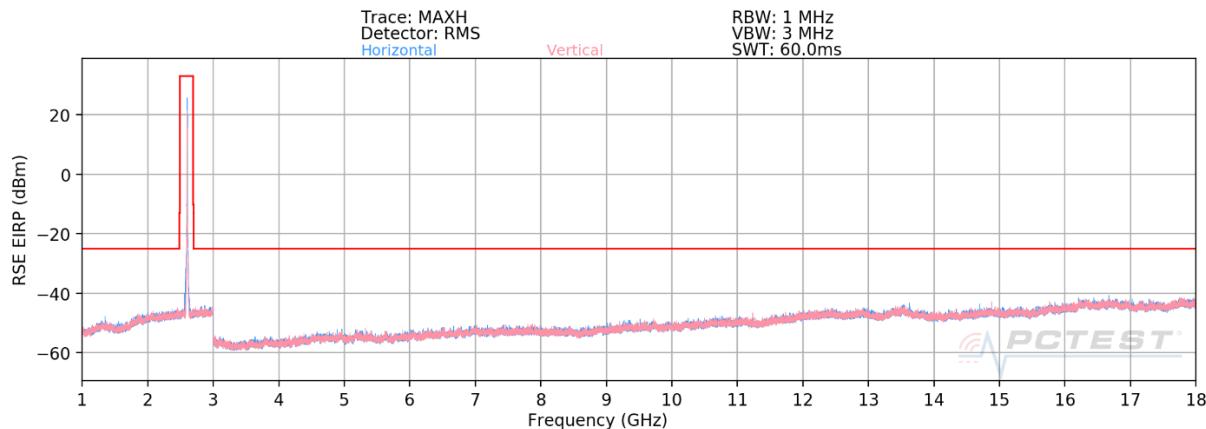
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	H	-	-	-82.02	9.52	34.50	-60.75	-25.00	-35.75
7680.0	H	-	-	-83.20	13.03	36.83	-58.43	-25.00	-33.43
10240.0	H	-	-	-84.43	16.08	38.65	-56.61	-25.00	-31.61

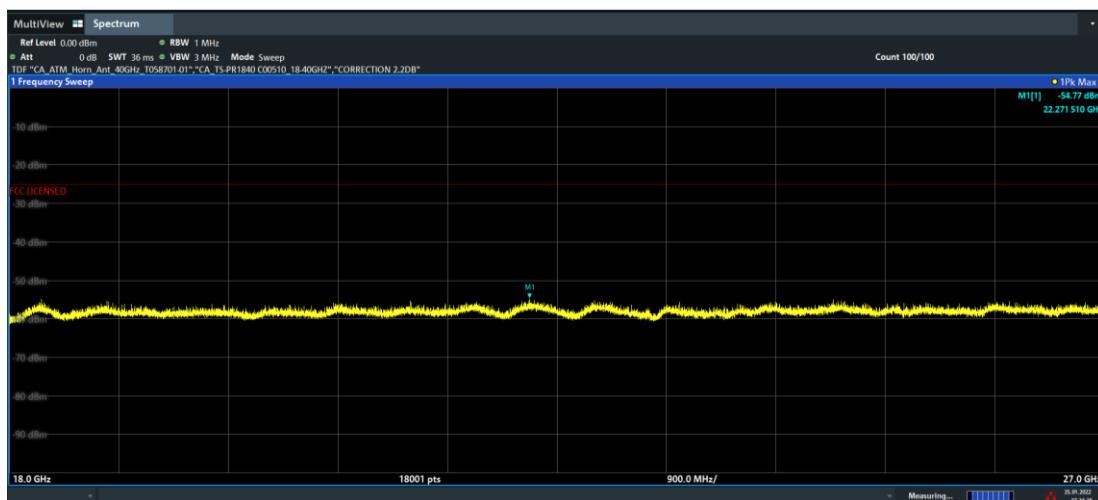
**Table 7-66. Radiated Spurious Data (ULCA LTE B7 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 228 of 266	

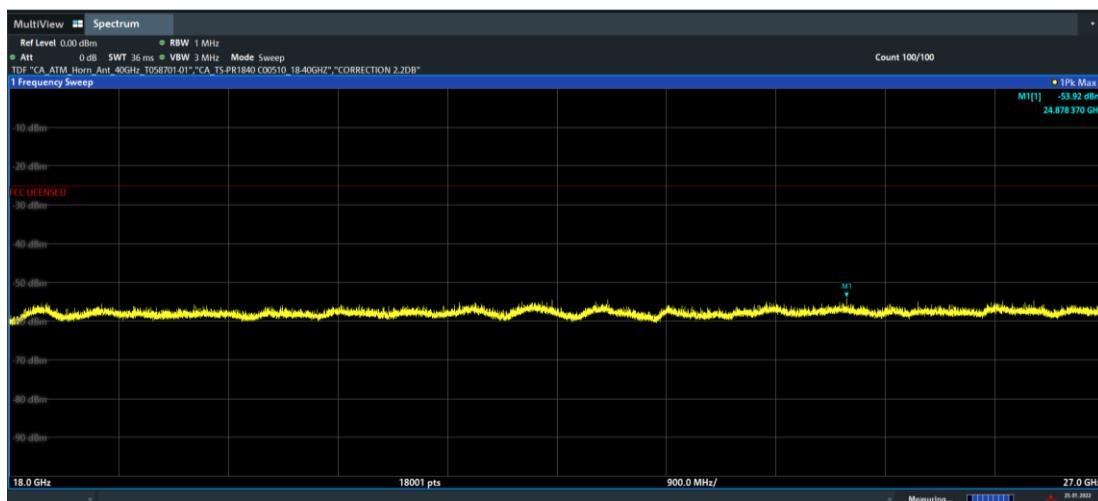
## ULCA - LTE B41



**Plot 7-315. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE B41)**



**Plot 7-316. Antenna 4 Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. H)**



**Plot 7-317. Antenna 4 Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. V)**

FCC ID: BCGA2589	 PCTEST® Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device		Page 229 of 266

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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-82.14	8.86	33.72	-61.53	-25.00	-36.53
7518.0	H	-	-	-82.79	11.99	36.20	-59.05	-25.00	-34.05
10024.0	H	-	-	-84.67	14.97	37.30	-57.96	-25.00	-32.96

**Table 7-67. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-82.77	10.76	34.99	-60.27	-25.00	-35.27
7779.0	H	-	-	-83.68	12.48	35.80	-59.46	-25.00	-34.46
10372.0	H	-	-	-84.67	16.25	38.58	-56.68	-25.00	-31.68

**Table 7-68. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-82.39	10.15	34.76	-60.50	-25.00	-35.50
8040.0	H	-	-	-84.02	12.80	35.78	-59.48	-25.00	-34.48
10720.0	H	-	-	-84.22	15.82	38.60	-56.66	-25.00	-31.66

**Table 7-69. Radiated Spurious Data (ULCA LTE B41 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C211150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 230 of 266	

## 7.6.2 Antenna 2a Radiated Spurious Emission Measurements

### LTE Band 30

Bandwidth (MHz):	5								
Frequency (MHz):	2307.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	-	-	-78.70	5.99	34.29	-60.97	-40.00	-20.97
6922.5	H	-	-	-79.66	9.27	36.61	-58.65	-40.00	-18.65
9230.0	H	-	-	-80.11	13.88	40.77	-54.49	-40.00	-14.49

**Table 7-70. Radiated Spurious Data (LTE Band 30 – 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-78.78	5.89	34.11	-61.14	-40.00	-21.14
6930.0	H	-	-	-79.85	9.31	36.46	-58.80	-40.00	-18.80
9240.0	H	-	-	-80.25	14.09	40.84	-54.42	-40.00	-14.42

**Table 7-71. Radiated Spurious Data (LTE Band 30 – Mid Channel)**

Bandwidth (MHz):	5								
Frequency (MHz):	2312.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	H	-	-	-78.54	5.80	34.26	-61.00	-40.00	-21.00
6937.50	H	-	-	-79.82	9.36	36.54	-58.72	-40.00	-18.72
9250.00	H	-	-	-80.31	14.19	40.88	-54.37	-40.00	-14.37

**Table 7-72. Radiated Spurious Data (LTE Band 30 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 231 of 266	

## LTE Band 7

Bandwidth (MHz):	20								
Frequency (MHz):	2510.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-81.88	8.75	33.87	-61.38	-25.00	-36.38
7530.0	H	-	-	-82.74	11.63	35.89	-59.37	-25.00	-34.37
10040.0	H	-	-	-84.41	15.41	38.00	-57.26	-25.00	-32.26

**Table 7-73. Radiated Spurious Data (LTE Band 7 – Low Channel)**

Bandwidth (MHz):	20								
Frequency (MHz):	2535.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-81.59	8.98	34.39	-60.87	-25.00	-35.87
7605.0	H	-	-	-83.61	12.73	36.12	-59.13	-25.00	-34.13
10140.0	H	-	-	-84.23	14.94	37.71	-57.54	-25.00	-32.54

**Table 7-74. Radiated Spurious Data (LTE Band 7 – Mid Channel)**

Bandwidth (MHz):	20								
Frequency (MHz):	2560.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	-	-	-82.33	9.55	34.22	-61.03	-25.00	-36.03
7680.00	H	-	-	-83.07	12.49	36.42	-58.84	-25.00	-33.84
10240.00	H	-	-	-84.21	15.62	38.41	-56.85	-25.00	-31.85

**Table 7-75. Radiated Spurious Data (LTE Band 7 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 232 of 266

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-80.60	8.68	35.08	-60.18	-25.00	-35.18
7518.0	H	-	-	-81.40	11.64	37.24	-58.02	-25.00	-33.02
10024.0	H	-	-	-84.00	15.42	38.42	-56.84	-25.00	-31.84

**Table 7-76. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-81.96	11.16	36.20	-59.06	-25.00	-34.06
7779.0	H	-	-	-82.79	12.33	36.54	-58.72	-25.00	-33.72
10372.0	H	-	-	-83.97	15.94	38.97	-56.29	-25.00	-31.29

**Table 7-77. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-81.93	10.28	35.35	-59.91	-25.00	-34.91
8040.0	H	-	-	-81.98	13.27	38.29	-56.97	-25.00	-31.97
10720.0	H	-	-	-82.32	15.68	40.36	-54.90	-25.00	-29.90

**Table 7-78. Radiated Spurious Data (LTE Band 41 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 233 of 266

## NR Band n30

Bandwidth (MHz):	5								
Frequency (MHz):	2307.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	-	-	-80.67	6.57	32.90	-62.36	-40.00	-22.36
6922.5	H	-	-	-81.34	10.18	35.84	-59.42	-40.00	-19.42
9230.0	H	-	-	-82.95	12.16	36.21	-59.05	-40.00	-19.05

**Table 7-79. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-80.73	6.51	32.78	-62.48	-40.00	-22.48
6930.0	H	-	-	-81.68	10.13	35.45	-59.80	-40.00	-19.80
9240.0	H	-	-	-83.17	12.30	36.13	-59.12	-40.00	-19.12

**Table 7-80. Radiated Spurious Data (NR Band n30 – Mid Channel)**

Bandwidth (MHz):	5								
Frequency (MHz):	2312.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	H	-	-	-80.85	6.50	32.65	-62.61	-40.00	-22.61
6937.5	H	-	-	-81.91	10.16	35.25	-60.01	-40.00	-20.01
9250.0	H	-	-	-83.42	12.36	35.94	-59.31	-40.00	-19.31

**Table 7-81. Radiated Spurious Data (NR Band n30 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 234 of 266	

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	H	-	-	-81.37	6.57	32.20	-63.06	-25.00	-38.06
7560.0	H	-	-	-82.00	10.18	35.18	-60.08	-25.00	-35.08
10080.0	H	-	-	-84.35	12.16	34.81	-60.45	-25.00	-35.45

**Table 7-82. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-81.50	6.51	32.01	-63.25	-25.00	-38.25
7605.0	H	-	-	-82.01	10.13	35.13	-60.13	-25.00	-35.13
10140.0	H	-	-	-84.43	12.30	34.87	-60.38	-25.00	-35.38

**Table 7-83. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	H	-	-	-81.59	6.50	31.91	-63.35	-25.00	-38.35
7650.0	H	-	-	-82.39	10.16	34.77	-60.49	-25.00	-35.49
10200.0	H	-	-	-84.39	12.36	34.97	-60.28	-25.00	-35.28

**Table 7-84. Radiated Spurious Data (NR Band n7 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 235 of 266

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	H	248	325	-81.44	7.23	32.79	-62.46	-25.00	-37.46
7638.0	H	-	-	-81.33	10.89	36.56	-58.69	-25.00	-33.69
10184.0	H	-	-	-84.41	13.62	36.21	-59.05	-25.00	-34.05
12730.0	H	-	-	-86.10	17.73	38.63	-56.63	-25.00	-31.63

**Table 7-85. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	239	194	-81.34	7.14	32.80	-62.46	-25.00	-37.46
7779.0	H	-	-	-81.68	10.48	35.80	-59.46	-25.00	-34.46
10372.0	H	-	-	-84.79	14.29	36.50	-58.76	-25.00	-33.76
12965.0	H	-	-	-85.84	17.98	39.14	-56.12	-25.00	-31.12

**Table 7-86. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	H	-	-	-81.20	7.00	32.80	-62.45	-25.00	-37.45
7920.0	H	-	-	-82.32	11.38	36.06	-59.20	-25.00	-34.20
10560.0	H	-	-	-84.41	14.34	36.93	-58.33	-25.00	-33.33

**Table 7-87. Radiated Spurious Data (NR Band n41 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 236 of 266	

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-81.71	8.88	34.17	-61.09	-25.00	-36.09
7530.0	H	-	-	-82.71	12.02	36.31	-58.95	-25.00	-33.95
10040.0	H	-	-	-84.22	14.89	37.67	-57.59	-25.00	-32.59

**Table 7-88. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-81.94	9.43	34.49	-60.77	-25.00	-35.77
7605.0	H	-	-	-83.41	13.19	36.78	-58.48	-25.00	-33.48
10140.0	H	-	-	-84.55	15.62	38.07	-57.19	-25.00	-32.19

**Table 7-89. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	H	-	-	-82.54	9.52	33.98	-61.27	-25.00	-36.27
7680.0	H	-	-	-84.80	13.03	35.23	-60.03	-25.00	-35.03
10240.0	H	-	-	-85.10	16.08	37.98	-57.28	-25.00	-32.28

**Table 7-90. Radiated Spurious Data (ULCA LTE B7 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C211150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 237 of 266	

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	101	162	-79.77	8.86	36.09	-59.16	-25.00	-34.16
7518.0	V	237	189	-78.27	11.99	40.72	-54.53	-25.00	-29.53
10024.0	V	-	-	-83.58	14.97	38.39	-56.87	-25.00	-31.87
12530.0	V	-	-	-83.76	18.79	42.03	-53.23	-25.00	-28.23
15036.0	V	-	-	-84.23	19.68	42.45	-52.81	-25.00	-27.81

Table 7-91. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-82.16	10.76	35.60	-59.66	-25.00	-34.66
7779.0	V	258	144	-80.33	12.48	39.15	-56.11	-25.00	-31.11
10372.0	V	-	-	-84.00	16.25	39.25	-56.01	-25.00	-31.01
12965.0	V	-	-	-86.73	19.05	39.32	-55.94	-25.00	-30.94
15558.0	V	-	-	-87.84	21.23	40.39	-54.86	-25.00	-29.86

Table 7-92. 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								

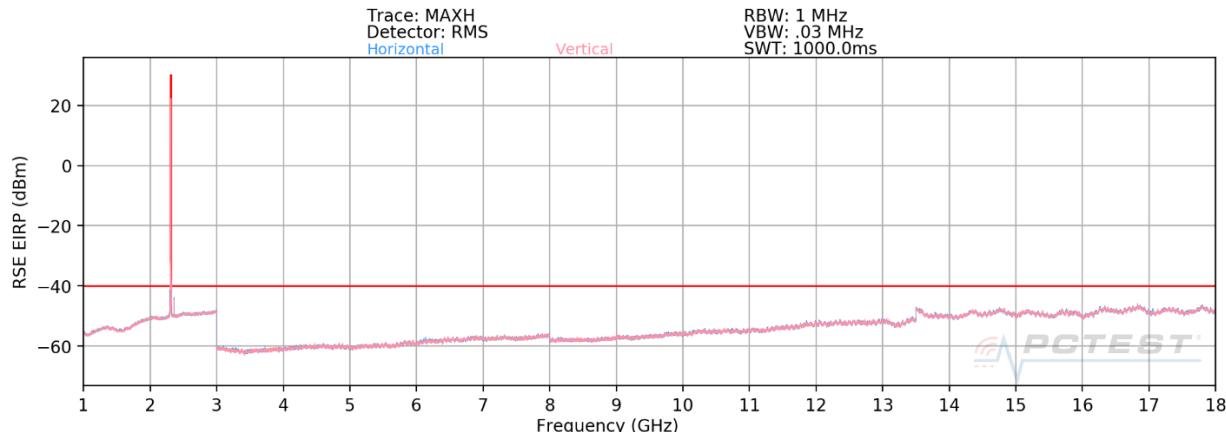
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-81.93	10.15	35.22	-60.04	-25.00	-35.04
8040.0	V	-	-	-83.27	12.80	36.53	-58.73	-25.00	-33.73
10720.0	V	-	-	-83.50	15.82	39.32	-55.94	-25.00	-30.94

Table 7-93. Radiated Spurious Data (ULCA LTE B41 – High Channel)

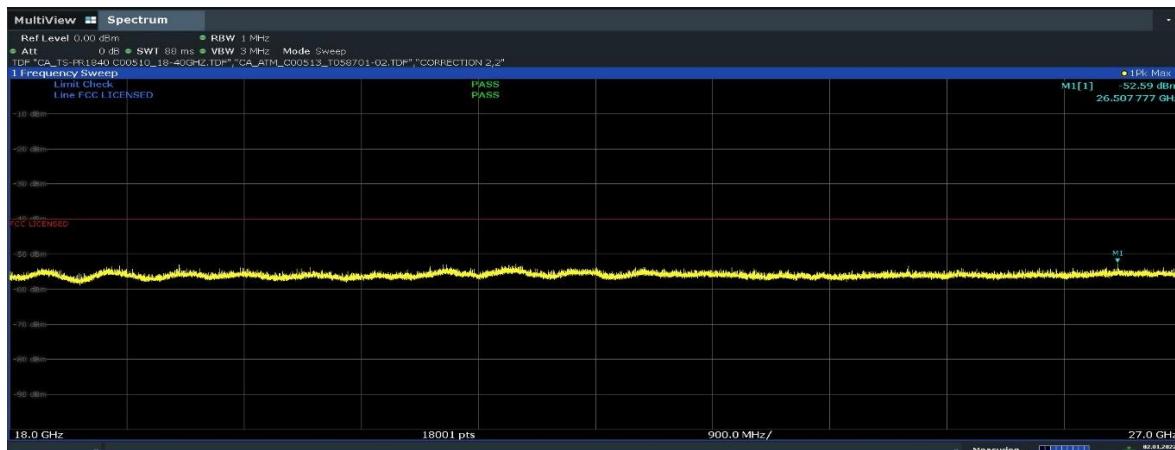
FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C211150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 238 of 266	

### 7.6.3 Antenna 3a Radiated Spurious Emission Measurements

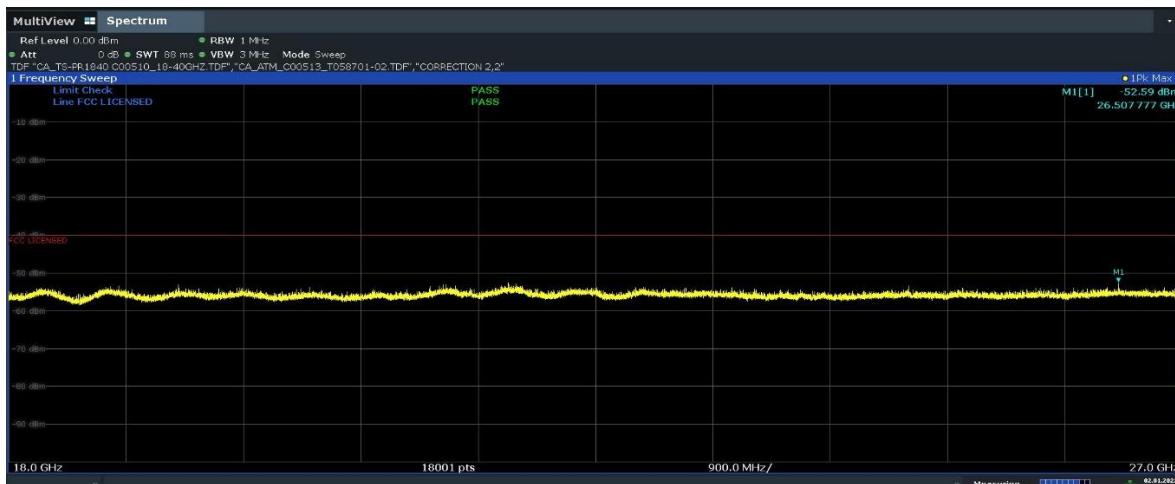
#### LTE Band 30



Plot 7-318. Antenna 3a Radiated Spurious Plot 1GHz – 18GHz (LTE Band 30)



Plot 7-319. Antenna 3a Radiated Spurious Emission above 18GHz (LTE Band 30, Pol. H)



Plot 7-320. Antenna 3a Radiated Spurious Emission above 18GHz (LTE Band 30, Pol. V)

FCC ID: BCGA2589	 PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device		Page 239 of 266

Bandwidth (MHz):	5								
Frequency (MHz):	2307.5								
RB / Offset:	1 / 12								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-78.89	5.99	34.10	-61.16	-40.00	-21.16
6922.5	V	-	-	-79.67	9.27	36.60	-58.66	-40.00	-18.66
9230.0	V	-	-	-80.11	13.88	40.77	-54.49	-40.00	-14.49

**Table 7-94. Radiated Spurious Data (LTE Band 30 – 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-78.91	5.89	33.98	-61.27	-40.00	-21.27
6930.0	V	-	-	-79.76	9.31	36.55	-58.71	-40.00	-18.71
9240.0	V	-	-	-80.20	14.09	40.89	-54.37	-40.00	-14.37

**Table 7-95. Radiated Spurious Data (LTE Band 30 – Mid Channel)**

Bandwidth (MHz):	5								
Frequency (MHz):	2312.5								
RB / Offset:	1 / 12								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	V	-	-	-78.70	5.80	34.10	-61.16	-40.00	-21.16
6937.50	V	-	-	-79.78	9.36	36.58	-58.68	-40.00	-18.68
9250.00	V	-	-	-80.33	14.19	40.86	-54.39	-40.00	-14.39

**Table 7-96. Radiated Spurious Data (LTE Band 30 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 240 of 266

## LTE Band 7

Bandwidth (MHz):	20								
Frequency (MHz):	2510.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-81.91	6.92	32.01	-63.25	-25.00	-38.25
7530.0	V	-	-	-82.68	11.10	35.42	-59.84	-25.00	-34.84
10040.0	V	-	-	-84.52	14.54	37.02	-58.24	-25.00	-33.24

**Table 7-97. Radiated Spurious Data (LTE Band 7 – Low Channel)**

Bandwidth (MHz):	20								
Frequency (MHz):	2535.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-81.67	8.98	34.31	-60.95	-25.00	-35.95
7605.0	V	-	-	-83.56	12.73	36.17	-59.08	-25.00	-34.08
10140.0	V	-	-	-84.42	14.94	37.52	-57.73	-25.00	-32.73

**Table 7-98. Radiated Spurious Data (LTE Band 7 – Mid Channel)**

Bandwidth (MHz):	20								
Frequency (MHz):	2560.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	-	-	-82.53	9.55	34.02	-61.23	-25.00	-36.23
7680.00	V	-	-	-83.08	12.49	36.41	-58.85	-25.00	-33.85
10240.00	V	-	-	-84.12	15.62	38.50	-56.76	-25.00	-31.76

**Table 7-99. Radiated Spurious Data (LTE Band 7 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 241 of 266

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	205	241	-78.56	8.68	37.12	-58.14	-25.00	-33.14
7518.0	H	-	-	-81.99	11.64	36.65	-58.61	-25.00	-33.61
10024.0	H	-	-	-83.38	15.42	39.04	-56.22	-25.00	-31.22
12530.0	H	-	-	-82.21	18.71	43.50	-51.76	-25.00	-26.76

**Table 7-100. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	279	284	-79.78	11.16	38.38	-56.88	-25.00	-31.88
7779.0	V	164	131	-81.45	12.33	37.88	-57.38	-25.00	-32.38
10372.0	V	-	-	-83.55	15.94	39.39	-55.87	-25.00	-30.87
12965.0	V	-	-	-83.97	19.53	42.56	-52.70	-25.00	-27.70
15558.0	V	-	-	-84.33	20.70	43.37	-51.88	-25.00	-26.88

**Table 7-101. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	295	246	-80.56	10.28	36.72	-58.54	-25.00	-33.54
8040.0	H	291	104	-79.70	13.27	40.57	-54.69	-25.00	-29.69
10720.0	H	-	-	-82.59	15.68	40.09	-55.17	-25.00	-30.17
13400.0	H	-	-	-83.40	19.12	42.72	-52.54	-25.00	-27.54
16080.0	H	-	-	-84.04	21.48	44.44	-50.82	-25.00	-25.82

**Table 7-102. Radiated Spurious Data (LTE Band 41 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C211150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 242 of 266

## NR Band n30

Bandwidth (MHz):	5								
Frequency (MHz):	2307.5								
RB / Offset:	1 / 12								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-80.60	6.57	32.97	-62.29	-40.00	-22.29
6922.5	V	-	-	-81.72	10.18	35.46	-59.80	-40.00	-19.80
9230.0	V	-	-	-83.72	12.16	35.44	-59.82	-40.00	-19.82

**Table 7-103. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-80.81	6.51	32.70	-62.56	-40.00	-22.56
6930.0	V	-	-	-81.96	10.13	35.17	-60.08	-40.00	-20.08
9240.0	V	-	-	-83.89	12.30	35.41	-59.84	-40.00	-19.84

**Table 7-104. Radiated Spurious Data (NR Band n30 – Mid Channel)**

Bandwidth (MHz):	5								
Frequency (MHz):	2312.5								
RB / Offset:	1 / 12								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-80.99	6.50	32.51	-62.75	-40.00	-22.75
6937.5	V	-	-	-82.07	10.16	35.09	-60.17	-40.00	-20.17
9250.0	V	-	-	-84.01	12.36	35.35	-59.90	-40.00	-19.90

**Table 7-105. Radiated Spurious Data (NR Band n30 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 243 of 266

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-81.65	6.57	31.92	-63.34	-25.00	-38.34
7560.0	V	-	-	-82.22	10.18	34.96	-60.30	-25.00	-35.30
10080.0	V	-	-	-84.47	12.16	34.69	-60.57	-25.00	-35.57

**Table 7-106. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-81.50	6.51	32.01	-63.25	-25.00	-38.25
7605.0	H	-	-	-82.01	10.13	35.13	-60.13	-25.00	-35.13
10140.0	H	-	-	-84.43	12.30	34.87	-60.38	-25.00	-35.38

**Table 7-107. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	H	-	-	-81.59	6.50	31.91	-63.35	-25.00	-38.35
7650.0	H	-	-	-82.39	10.16	34.77	-60.49	-25.00	-35.49
10200.0	H	-	-	-84.39	12.36	34.97	-60.28	-25.00	-35.28

**Table 7-108. Radiated Spurious Data (NR Band n7 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 244 of 266

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-81.53	7.23	32.70	-62.55	-25.00	-37.55
7638.0	V	-	-	-81.80	10.89	36.09	-59.16	-25.00	-34.16
10184.0	V	387	320	-84.29	13.62	36.33	-58.93	-25.00	-33.93
12730.0	V	-	-	-85.97	17.73	38.76	-56.50	-25.00	-31.50

**Table 7-109. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-81.16	7.14	32.98	-62.28	-25.00	-37.28
7779.0	V	-	-	-81.70	10.48	35.78	-59.48	-25.00	-34.48
10372.0	V	-	-	-84.66	14.29	36.63	-58.63	-25.00	-33.63

**Table 7-110. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-81.17	7.00	32.83	-62.42	-25.00	-37.42
7920.0	V	-	-	-82.63	11.38	35.75	-59.51	-25.00	-34.51
10560.0	V	-	-	-84.53	14.34	36.81	-58.45	-25.00	-33.45

**Table 7-111. Radiated Spurious Data (NR Band n41 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 245 of 266	

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-81.76	8.88	34.12	-61.14	-25.00	-36.14
7530.0	V	-	-	-82.99	12.02	36.03	-59.23	-25.00	-34.23
10040.0	V	-	-	-84.29	14.89	37.60	-57.66	-25.00	-32.66

**Table 7-112. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-81.77	9.43	34.66	-60.60	-25.00	-35.60
7605.0	V	-	-	-83.09	13.19	37.10	-58.16	-25.00	-33.16
10140.0	V	-	-	-84.49	15.62	38.13	-57.13	-25.00	-32.13

**Table 7-113. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	V	-	-	-81.89	9.52	34.63	-60.62	-25.00	-35.62
7680.0	V	-	-	-83.26	13.03	36.77	-58.49	-25.00	-33.49
10240.0	V	-	-	-84.46	16.08	38.62	-56.64	-25.00	-31.64

**Table 7-114. Radiated Spurious Data (ULCA LTE B7 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C211150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device						Page 246 of 266

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-81.91	8.86	33.95	-61.30	-25.00	-36.30
7518.0	H	-	-	-83.41	11.99	35.58	-59.67	-25.00	-34.67
10024.0	H	-	-	-83.29	14.97	38.68	-56.58	-25.00	-31.58

**Table 7-115. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-82.27	10.76	35.49	-59.77	-25.00	-34.77
7779.0	H	-	-	-82.51	12.48	36.97	-58.29	-25.00	-33.29
10372.0	H	-	-	-84.04	16.25	39.21	-56.05	-25.00	-31.05

**Table 7-116. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-81.91	10.15	35.24	-60.02	-25.00	-35.02
8040.0	H	-	-	-83.41	12.80	36.39	-58.87	-25.00	-33.87
10720.0	H	-	-	-83.29	15.82	39.53	-55.73	-25.00	-30.73

**Table 7-117. Radiated Spurious Data (ULCA LTE B41 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C211150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device						Page 247 of 266

## 7.6.4 Antenna 1a Radiated Spurious Emission Measurements

### LTE Band 30

Bandwidth (MHz):	5								
Frequency (MHz):	2307.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-78.66	5.99	34.33	-60.93	-40.00	-20.93
6922.5	V	-	-	-79.74	9.27	36.53	-58.73	-40.00	-18.73
9230.0	V	-	-	-80.01	13.88	40.87	-54.39	-40.00	-14.39

**Table 7-118. Radiated Spurious Data (LTE Band 30 – 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-78.83	5.89	34.06	-61.19	-40.00	-21.19
6930.0	V	-	-	-79.91	9.31	36.40	-58.86	-40.00	-18.86
9240.0	V	-	-	-80.01	14.09	41.08	-54.18	-40.00	-14.18

**Table 7-119. Radiated Spurious Data (LTE Band 30 – Mid Channel)**

Bandwidth (MHz):	5								
Frequency (MHz):	2312.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	V	-	-	-78.31	5.80	34.49	-60.77	-40.00	-20.77
6937.50	V	-	-	-79.71	9.36	36.65	-58.61	-40.00	-18.61
9250.00	V	-	-	-80.36	14.19	40.83	-54.42	-40.00	-14.42

**Table 7-120. Radiated Spurious Data (LTE Band 30 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 248 of 266	

## LTE Band 7

Bandwidth (MHz):	20								
Frequency (MHz):	2510.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-81.90	6.92	32.02	-63.24	-25.00	-38.24
7530.0	V	-	-	-82.40	11.10	35.70	-59.56	-25.00	-34.56
10040.0	V	-	-	-84.61	14.54	36.93	-58.33	-25.00	-33.33

**Table 7-121. Radiated Spurious Data (LTE Band 7 – Low Channel)**

Bandwidth (MHz):	20								
Frequency (MHz):	2535.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-81.70	8.98	34.28	-60.98	-25.00	-35.98
7605.0	V	-	-	-83.44	12.73	36.29	-58.96	-25.00	-33.96
10140.0	V	-	-	-84.41	14.94	37.53	-57.72	-25.00	-32.72

**Table 7-122. Radiated Spurious Data (LTE Band 7 – Mid Channel)**

Bandwidth (MHz):	20								
Frequency (MHz):	2560.0								
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	-	-	-82.53	9.55	34.02	-61.23	-25.00	-36.23
7680.00	V	-	-	-83.07	12.49	36.42	-58.84	-25.00	-33.84
10240.00	V	-	-	-84.09	15.62	38.53	-56.73	-25.00	-31.73

**Table 7-123. Radiated Spurious Data (LTE Band 7 – High Channel)**

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 249 of 266	

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-81.02	8.68	34.66	-60.60	-25.00	-35.60
7518.0	V	-	-	-81.89	11.64	36.75	-58.51	-25.00	-33.51
10024.0	V	-	-	-84.11	15.42	38.31	-56.95	-25.00	-31.95

**Table 7-124. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-81.97	19.90	44.93	-50.33	-25.00	-25.33
7779.0	V	-	-	-82.60	21.61	46.01	-49.25	-25.00	-24.25
10372.0	V	-	-	-84.21	24.88	47.67	-47.59	-25.00	-22.59

**Table 7-125. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-82.01	19.18	44.17	-51.09	-25.00	-26.09
8040.0	V	-	-	-83.40	21.90	45.50	-49.76	-25.00	-24.76
10720.0	V	-	-	-83.03	25.49	49.46	-45.80	-25.00	-20.80

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

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 250 of 266

## NR Band n30

Bandwidth (MHz):	5								
Frequency (MHz):	2307.5								
RB / Offset:	1 / 12								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-80.96	6.57	32.61	-62.65	-40.00	-22.65
6922.5	V	-	-	-81.82	10.18	35.36	-59.90	-40.00	-19.90
9230.0	V	-	-	-83.56	12.16	35.60	-59.66	-40.00	-19.66

**Table 7-127. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-81.02	6.51	32.49	-62.77	-40.00	-22.77
6930.0	V	-	-	-81.97	10.13	35.16	-60.09	-40.00	-20.09
9240.0	V	-	-	-83.84	12.30	35.46	-59.79	-40.00	-19.79

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

Bandwidth (MHz):	5								
Frequency (MHz):	2312.5								
RB / Offset:	1 / 12								

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-80.99	6.50	32.51	-62.75	-40.00	-22.75
6937.5	V	-	-	-81.93	10.16	35.23	-60.03	-40.00	-20.03
9250.0	V	-	-	-83.89	12.36	35.47	-59.78	-40.00	-19.78

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

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 251 of 266	

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-81.53	6.57	32.04	-63.22	-25.00	-38.22
7560.0	V	-	-	-82.15	10.18	35.03	-60.23	-25.00	-35.23
10080.0	V	-	-	-84.24	12.16	34.92	-60.34	-25.00	-35.34

**Table 7-130. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-81.80	6.51	31.71	-63.55	-25.00	-38.55
7605.0	V	-	-	-82.27	10.13	34.86	-60.39	-25.00	-35.39
10140.0	V	-	-	-84.29	12.30	35.01	-60.24	-25.00	-35.24

**Table 7-131. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-81.64	6.50	31.86	-63.40	-25.00	-38.40
7650.0	V	-	-	-82.30	10.16	34.86	-60.40	-25.00	-35.40
10200.0	V	-	-	-84.27	12.36	35.09	-60.16	-25.00	-35.16

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

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device					Page 252 of 266

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-81.50	7.23	32.73	-62.52	-25.00	-37.52
7638.0	V	-	-	-81.70	10.89	36.19	-59.06	-25.00	-34.06
10184.0	V	-	-	-84.38	13.62	36.24	-59.02	-25.00	-34.02

**Table 7-133. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-81.57	7.14	32.57	-62.69	-25.00	-37.69
7779.0	V	-	-	-81.63	10.48	35.85	-59.41	-25.00	-34.41
10372.0	V	-	-	-84.76	14.29	36.53	-58.73	-25.00	-33.73

**Table 7-134. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-81.24	7.00	32.76	-62.49	-25.00	-37.49
7920.0	V	130	226	-82.46	11.38	35.92	-59.34	-25.00	-34.34
10560.0	V	-	-	-84.19	14.34	37.15	-58.11	-25.00	-33.11
13200.0	V	-	-	-85.89	17.86	38.97	-56.28	-25.00	-31.28

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

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			Page 253 of 266	

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-81.72	8.88	34.16	-61.10	-25.00	-36.10
7530.0	V	-	-	-82.67	12.02	36.35	-58.91	-25.00	-33.91
10040.0	V	-	-	-84.08	14.89	37.81	-57.45	-25.00	-32.45

**Table 7-136. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-81.71	9.43	34.72	-60.54	-25.00	-35.54
7605.0	V	-	-	-83.41	13.19	36.78	-58.48	-25.00	-33.48
10140.0	V	-	-	-84.44	15.62	38.18	-57.08	-25.00	-32.08

**Table 7-137. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	V	-	-	-82.04	9.52	34.48	-60.77	-25.00	-35.77
7680.0	V	-	-	-83.22	13.03	36.81	-58.45	-25.00	-33.45
10240.0	V	-	-	-84.49	16.08	38.59	-56.67	-25.00	-31.67

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

FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C211150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device						Page 254 of 266

## 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-81.03	8.86	34.83	-60.42	-25.00	-35.42
7518.0	H	-	-	-82.38	11.99	36.61	-58.64	-25.00	-33.64
10024.0	H	-	-	-83.76	14.97	38.21	-57.05	-25.00	-32.05

**Table 7-139. 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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	245	133	-81.72	10.76	36.04	-59.22	-25.00	-34.22
7779.0	H	-	-	-82.84	12.48	36.64	-58.62	-25.00	-33.62
10372.0	H	-	-	-84.00	16.25	39.25	-56.01	-25.00	-31.01
12965.0	H	-	-	-83.94	19.05	42.11	-53.15	-25.00	-28.15

**Table 7-140. 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

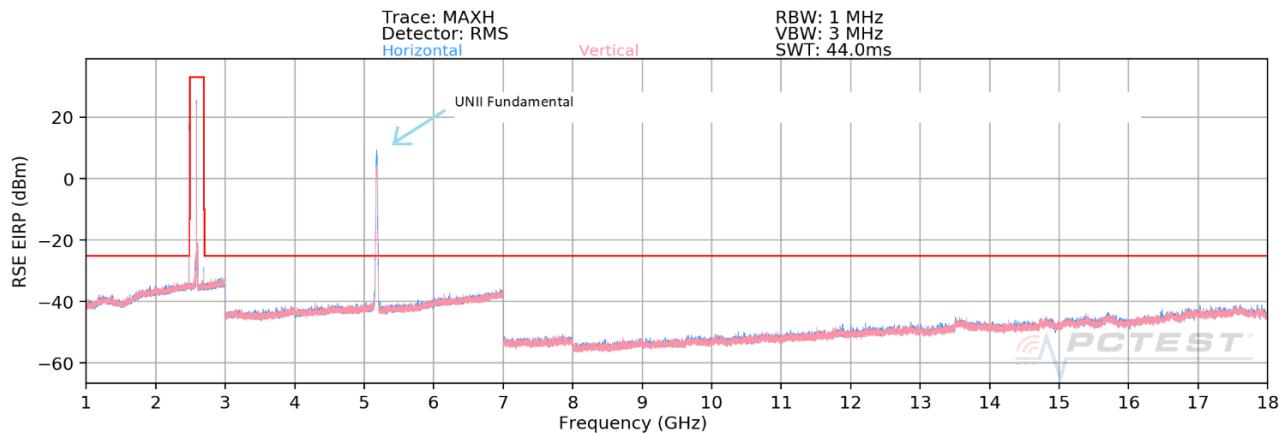
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-82.14	10.15	35.01	-60.25	-25.00	-35.25
8040.0	H	-	-	-83.34	12.80	36.46	-58.80	-25.00	-33.80
10720.0	H	-	-	-83.56	15.82	39.26	-56.00	-25.00	-31.00

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

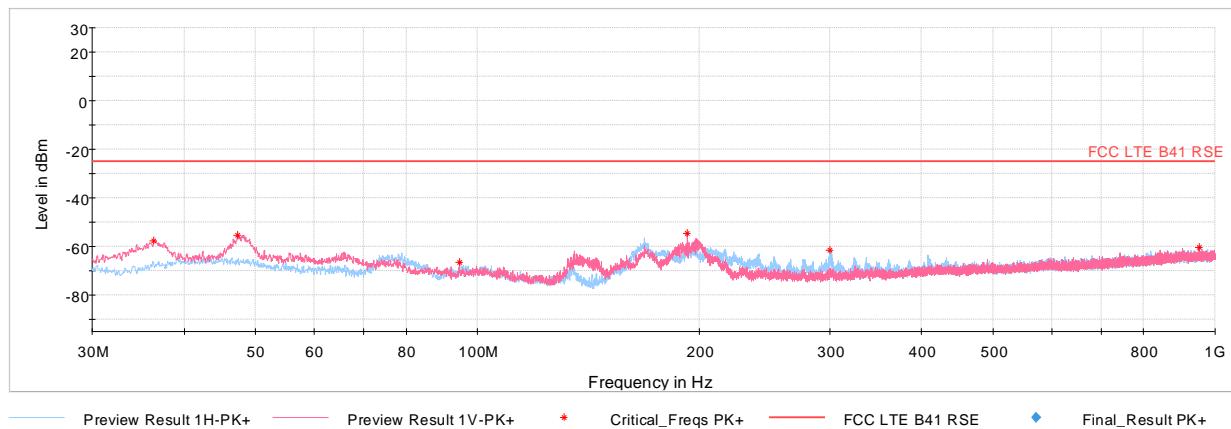
FCC ID: BCGA2589	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
Test Report S/N: 1C211150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device						Page 255 of 266

## 7.6.5 Simultaneous Transmission

Description	LTE (Band 41)	Bluetooth	UNII
Antenna	Antenna 3a	Antenna 3a	Antenna 3a
Channel	40620	78	36
Operating Frequency (MHz)	2595	2480	5180
Mode/Modulation	QPSK/1RB/20MHz	BDR/GFSK/ePA	802.11n

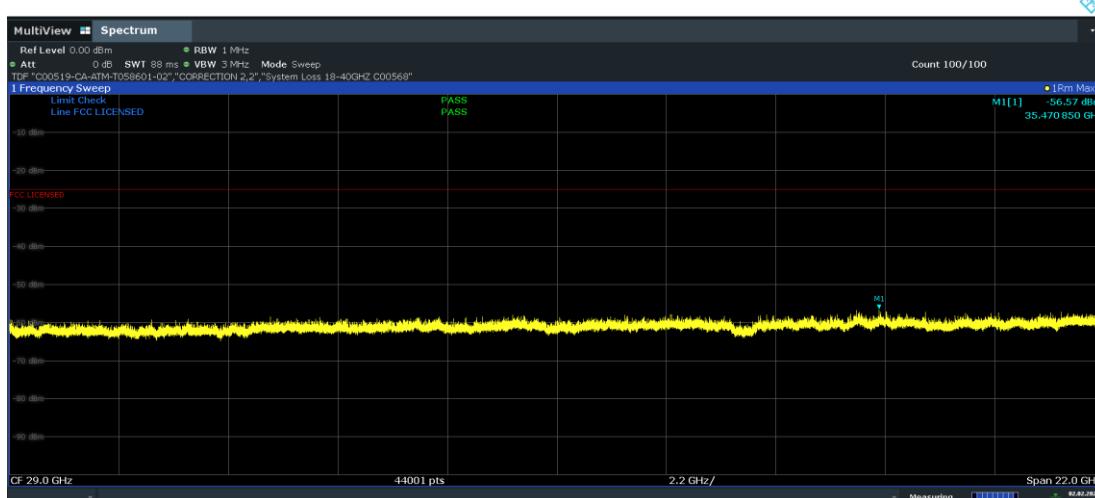


**Plot 7-321. Radiated Spurious Emissions – Simultaneous Transmission 1GHz – 18GHz**

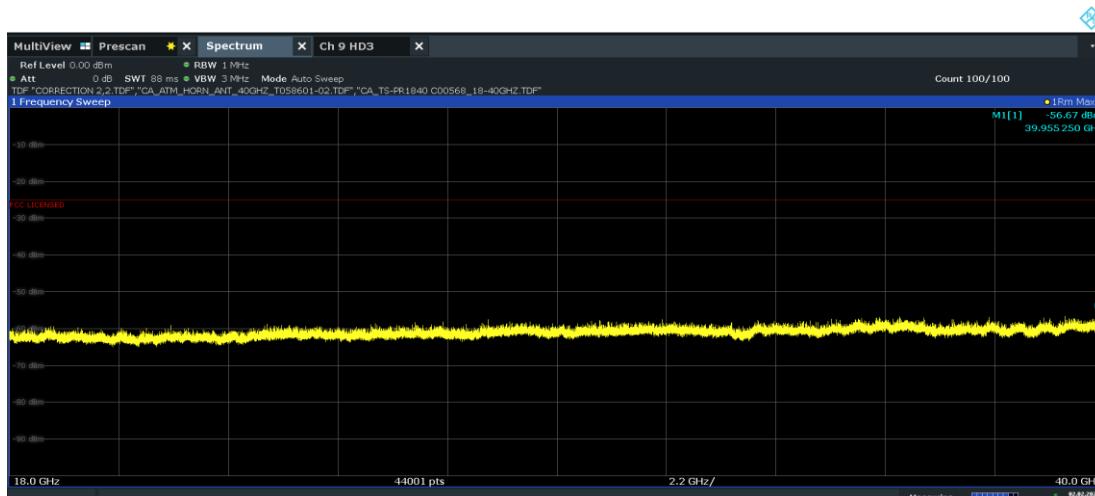


**Plot 7-322. Radiated Spurious Emissions – Simultaneous Transmission 30MHz – 1GHz**

FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			Page 256 of 266



Plot 7-323. Radiated Spurious Emission – Simultaneous Transmission 18GHz-40GHz Pol. H



Plot 7-324. Radiated Spurious Emission – Simultaneous Transmission 18GHz-40GHz Pol. V

FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			Page 257 of 266

Bandwidth (MHz):	20
Frequency (MHz):	2595.0
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 $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
2374*	V	-	-	-78.95	18.23	46.28	-48.98	-25.00	-23.98
2692*	V	279	274	-61.63	18.89	64.26	-31.00	-25.00	-6.00
5172.0	V	-	-	-80.83	16.84	43.01	-52.25	-25.00	-27.25
7758.0	V	-	-	-81.17	10.92	36.75	-58.51	-25.00	-33.51
10344.0	V	-	-	-83.92	14.38	37.46	-57.80	-25.00	-32.80

**Table 7-142. LTE Harmonics and Intermodulations (\*) Emissions Measurements in Simultaneous Transmission Mode**

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4960.00	Peak	V	-	-	-70.44	16.68	53.24	73.98	-20.74
7440.00	Peak	V	-	-	-70.41	10.51	47.10	73.98	-26.88
12400.00	Peak	V	-	-	-74.35	17.44	50.09	73.98	-23.89

**Table 7-143. Bluetooth Harmonics Emissions Measurements in Simultaneous Transmission Mode**

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10360.00	Peak	V	-	-	-73.63	14.47	47.84	68.20	-20.36
15540.00	Avg	V	-	-	-86.61	21.47	41.86	53.98	-12.12
15540.00	Peak	V	-	-	-75.20	21.47	53.27	73.98	-20.71

**Table 7-144. UNII Harmonics Emissions Measurements in Simultaneous Transmission Mode**

FCC ID: BCGA2589	 <b>PCTEST</b> <sup>®</sup> Proud to be part of  <b>PART 27 MEASUREMENT REPORT</b>				Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			Page 258 of 266

## 7.7 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

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

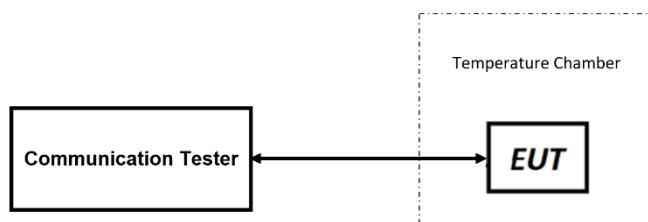


Figure 7-7. Test Instrument & Measurement Setup

### Test Notes

1. All port were tested and only the worst case data were reported.
2. NR bands with wider bandwidths compared to respective LTE bands have been investigated and worst case was reported. NR Bands with equal or lower bandwidths to respective LTE bands are covered by their respective LTE Bands.

FCC ID: BCGA2589	 <b>PCTEST</b> <sup>®</sup> Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device		Page 259 of 266

## 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):	3.8

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,499,999	2,312,500,001	1	2	0.0000001
		- 20	2,307,499,998	2,312,499,997	0	-2	-0.0000001
		- 10	2,307,499,999	2,312,500,001	1	2	0.0000001
		0	2,307,499,997	2,312,500,000	-1	1	0.0000000
		+ 10	2,307,499,997	2,312,499,997	-1	-1	-0.0000001
		+ 20 (Ref)	2,307,499,998	2,312,499,999	0	0	0.0000000
		+ 30	2,307,499,993	2,312,499,996	-5	-2	-0.0000002
		+ 40	2,307,499,993	2,312,499,993	-5	-5	-0.0000002
		+ 50	2,307,499,990	2,312,499,994	-8	-5	-0.0000003
Battery Endpoint	3.23	+ 20	2,307,499,996	2,312,499,997	-2	-1	-0.0000001

**Table 7-145. LTE Band 30 Frequency Stability Data**

FCC ID: BCGA2589	 <b>PCTEST®</b> Proud to be part of  <b>PART 27 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device		Page 260 of 266

## Frequency Stability / Temperature Variation

<b>LTE Band 7</b>							
		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	2,510,000,009	2,560,000,026	-11	0	-0.0000004
		- 20	2,510,000,009	2,560,000,026	-11	0	-0.0000004
		- 10	2,510,000,011	2,560,000,026	-9	1	-0.0000004
		0	2,510,000,009	2,560,000,026	-11	1	-0.0000004
		+ 10	2,510,000,010	2,560,000,024	-10	-1	-0.0000004
		+ 20 (Ref)	2,510,000,020	2,560,000,025	0	0	0.0000000
		+ 30	2,510,000,005	2,560,000,015	-15	-11	-0.0000006
		+ 40	2,510,000,005	2,560,000,016	-15	-9	-0.0000006
		+ 50	2,510,000,005	2,560,000,019	-15	-7	-0.0000006
Battery Endpoint	3.23	+ 20	2,510,000,009	2,560,000,024	-12	-1	-0.0000005

**Table 7-146. LTE Band 7 Frequency Stability Data**

FCC ID: BCGA2589	 <b>PCTEST</b> <sup>®</sup> Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			

## Frequency Stability / Temperature Variation

<b>LTE Band 41</b>							
		Low Channel Frequency (Hz):		2,506,000,000			
		High Channel Frequency (Hz):		2,580,000,000			
		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	2,505,999,994	2,579,999,992	1	2	0.0000001
		- 20	2,505,999,990	2,579,999,989	-2	-1	-0.0000001
		- 10	2,505,999,992	2,579,999,989	0	-2	-0.0000001
		0	2,505,999,989	2,579,999,987	-3	-4	-0.0000001
		+ 10	2,505,999,981	2,579,999,981	-11	-10	-0.0000004
		+ 20 (Ref)	2,505,999,992	2,579,999,991	0	0	0.0000000
		+ 30	2,505,999,981	2,579,999,984	-11	-7	-0.0000004
		+ 40	2,505,999,982	2,579,999,979	-10	-12	-0.0000005
		+ 50	2,505,999,982	2,579,999,979	-10	-12	-0.0000005
		Battery Endpoint	3.23	+ 20	2,505,999,984	2,579,999,982	-8
							-9
							-0.0000004

**Table 7-147. LTE Band 41 Frequency Stability Data**

FCC ID: BCGA2589	 <b>PCTEST</b> <sup>®</sup> Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			

## Frequency Stability / Temperature Variation

<b>NR Band n30</b>							
		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	2,307,499,994	2,312,500,012	-3	9	0.0000004
		- 20	2,307,499,996	2,312,500,005	-2	3	0.0000001
		- 10	2,307,499,996	2,312,500,005	-2	3	0.0000001
		0	2,307,499,996	2,312,500,005	-2	3	0.0000001
		+ 10	2,307,499,996	2,312,500,005	-2	3	0.0000001
		+ 20 (Ref)	2,307,499,998	2,312,500,002	0	0	0.0000000
		+ 30	2,307,499,996	2,312,500,005	-2	3	0.0000001
		+ 40	2,307,499,995	2,312,500,005	-2	3	0.0000001
		+ 50	2,307,499,995	2,312,500,005	-2	3	0.0000001
Battery Endpoint	3.23	+ 20	2,307,499,996	2,312,500,004	-2	2	-0.0000001

**Table 7-148. NR Band n30 Frequency Stability Data**

FCC ID: BCGA2589	 <b>PCTEST</b> <sup>®</sup> Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			

## Frequency Stability / Temperature Variation

<b>NR Band n7</b>							
		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	2,509,998,817	2,559,999,352	-592	-323	-0.0000236
		- 20	2,509,998,816	2,559,999,353	-593	-321	-0.0000236
		- 10	2,509,998,820	2,559,999,355	-589	-320	-0.0000235
		0	2,509,998,824	2,559,999,351	-585	-323	-0.0000233
		+ 10	2,509,998,816	2,559,999,356	-594	-319	-0.0000236
		+ 20 (Ref)	2,509,999,409	2,559,999,675	0	0	0.0000000
		+ 30	2,509,998,820	2,559,999,349	-589	-326	-0.0000235
		+ 40	2,509,998,817	2,559,999,346	-592	-328	-0.0000236
		+ 50	2,509,998,823	2,559,999,346	-587	-329	-0.0000234
Battery Endpoint	3.23	+ 20	2,509,998,819	2,559,999,349	-591	-325	-0.0000235

Table 7-149. NR Band n7 Frequency Stability Data

FCC ID: BCGA2589	 <b>PCTEST</b> <sup>®</sup> Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			

## Frequency Stability / Temperature Variation

<b>NR Band n41</b>							
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,545,913,618	2,640,034,604	-49	142	0.0000054
		- 20	2,545,913,618	2,640,034,604	-49	142	0.0000054
		- 10	2,545,913,618	2,640,034,604	-49	142	0.0000054
		0	2,545,913,618	2,640,034,604	-49	142	0.0000054
		+ 10	2,545,913,618	2,640,034,604	-49	142	0.0000054
		+ 20 (Ref)	2,545,913,667	2,640,034,462	0	0	0.0000000
		+ 30	2,545,913,618	2,640,034,414	-49	-48	-0.0000019
		+ 40	2,545,913,619	2,640,034,415	-48	-47	-0.0000019
		+ 50	2,545,913,637	2,640,034,474	-30	12	-0.0000012
Battery Endpoint	3.23	+ 20	2,545,913,571	2,640,034,496	-96	34	-0.0000038

**Table 7-150. NR Band n41PC2 Frequency Stability Data**

FCC ID: BCGA2589	 <b>PCTEST</b> <sup>®</sup> Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device			

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2589** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 		
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device	Approved by: Technical Manager