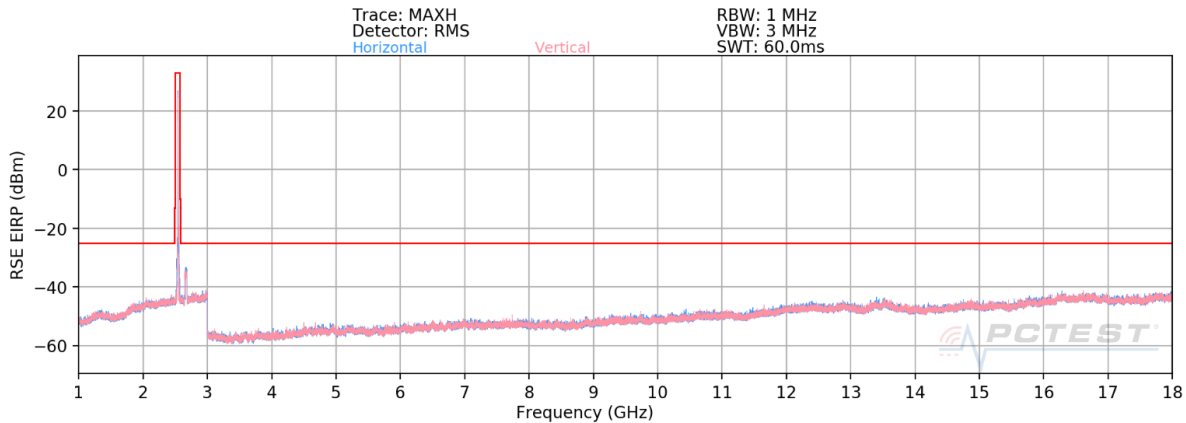
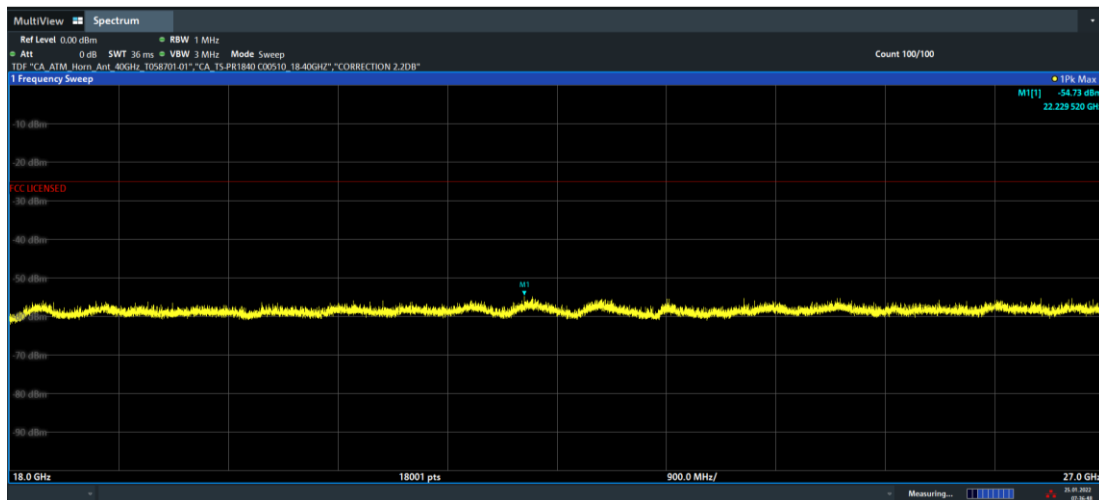


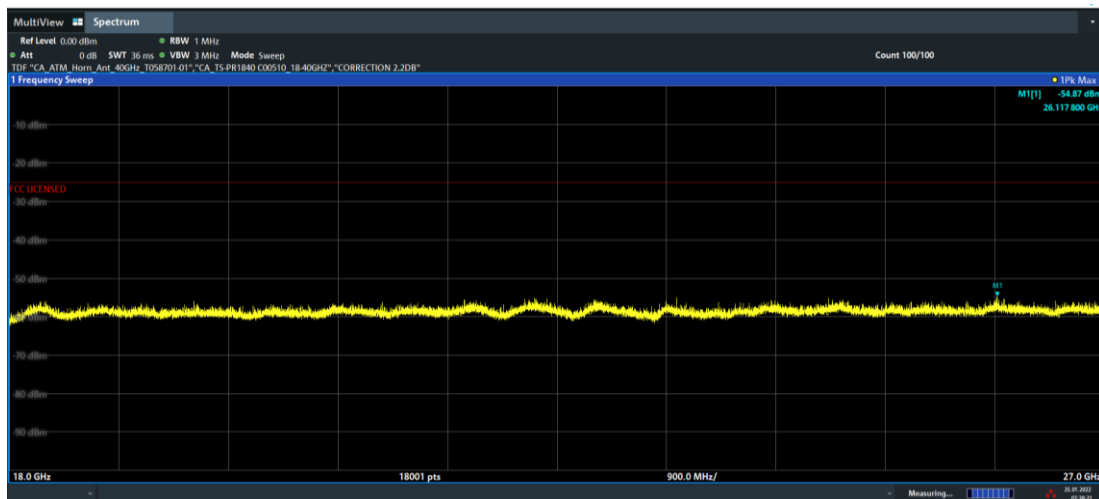
## ULCA - LTE B7



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 element	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 [dBμV/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 [dBμV/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)**

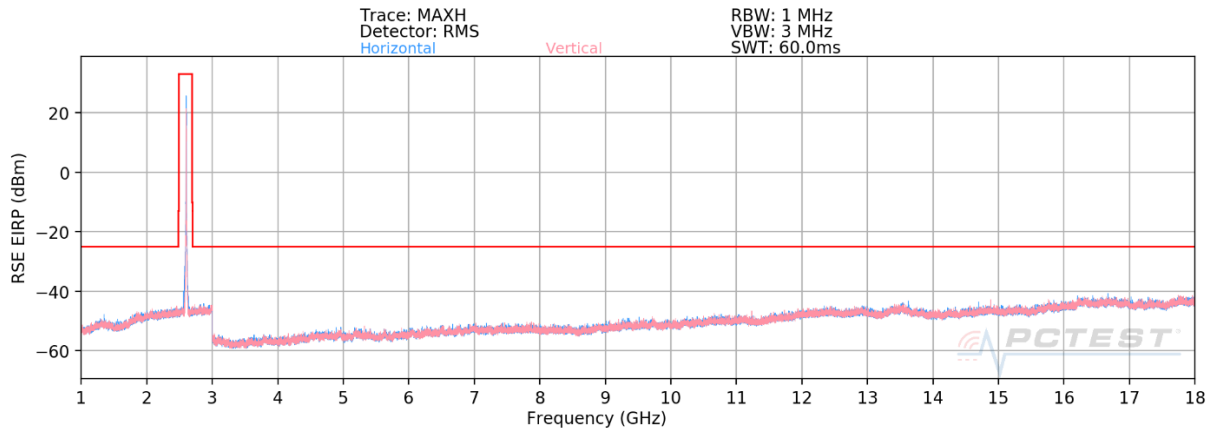
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/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

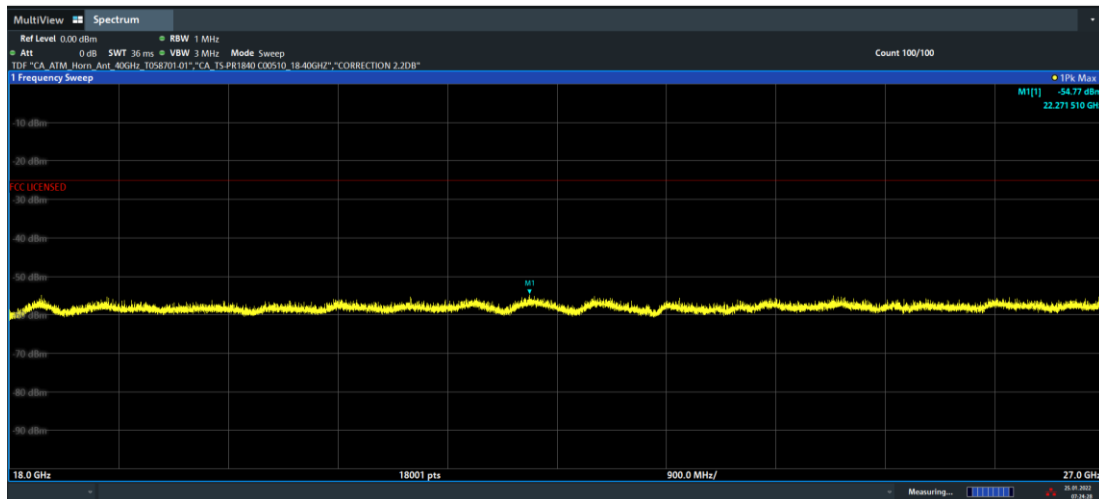
**Table 7-66. Radiated Spurious Data (ULCA LTE B7 – High Channel)**

FCC ID: BCGA2589	 <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 228 of 266

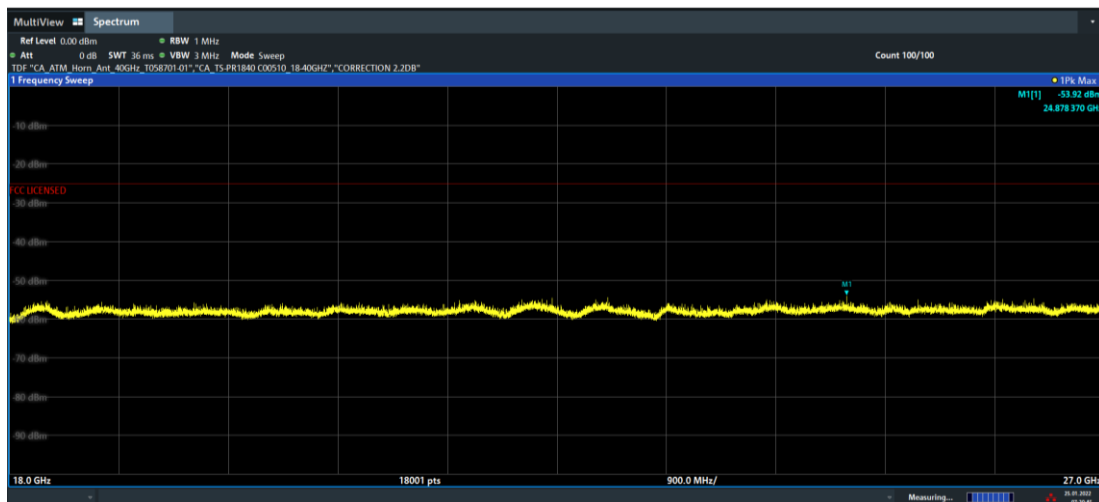
## ULCA - LTE B41



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	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 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 [dBμV/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 [dBμV/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 [dBμV/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	 <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 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 [dBμV/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 [dBμV/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 [dBμV/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	 <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 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 [dBμV/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 [dBμV/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 [dBμV/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	 <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 234 of 266



## NR Band n7

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

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]
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)**

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


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]
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)**

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

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]
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)**

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

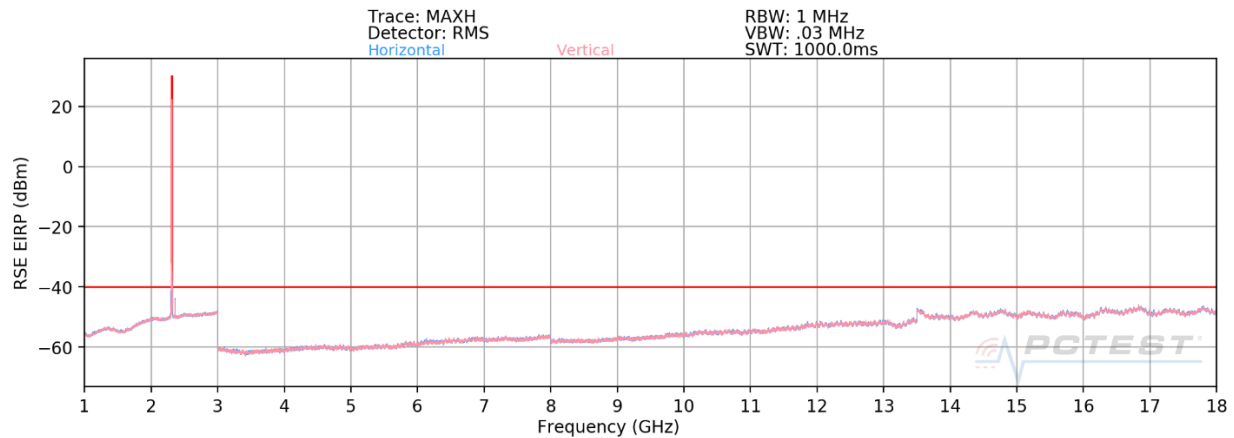
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-81.93	10.15	35.22	-60.04	-25.00	-35.04
8040.0	V	-	-	-83.27	12.80	36.53	-58.73	-25.00	-33.73
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)

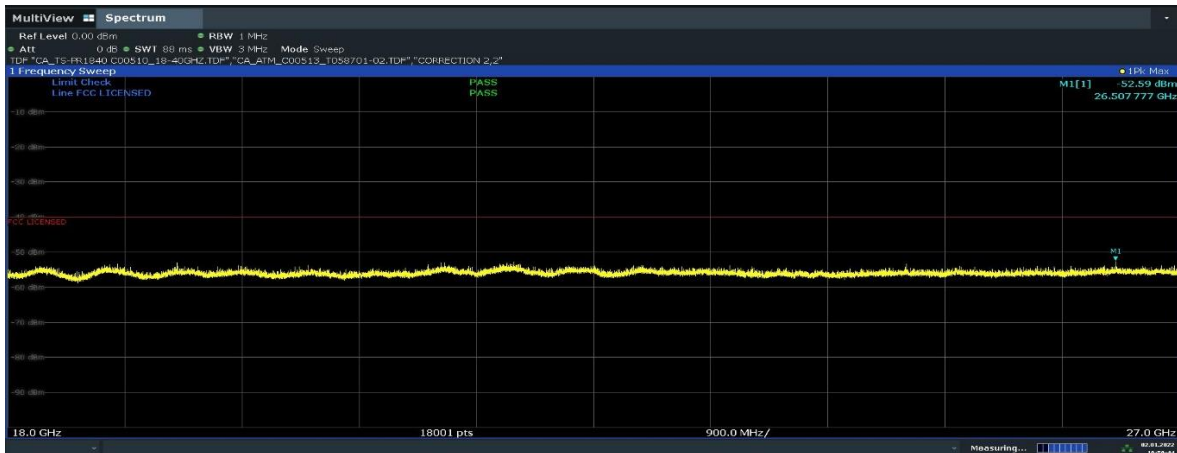
FCC ID: BCGA2589	 <b>PART 27 MEASUREMENT REPORT</b>						Approved by: Technical Manager
Test Report S/N: 1C2111150079-04-R1.BCG	Test Dates: 12/2/2021 - 2/16/2022	EUT Type: Tablet Device				Page 238 of 266	

## 7.6.3 Antenna 3a Radiated Spurious Emission Measurements

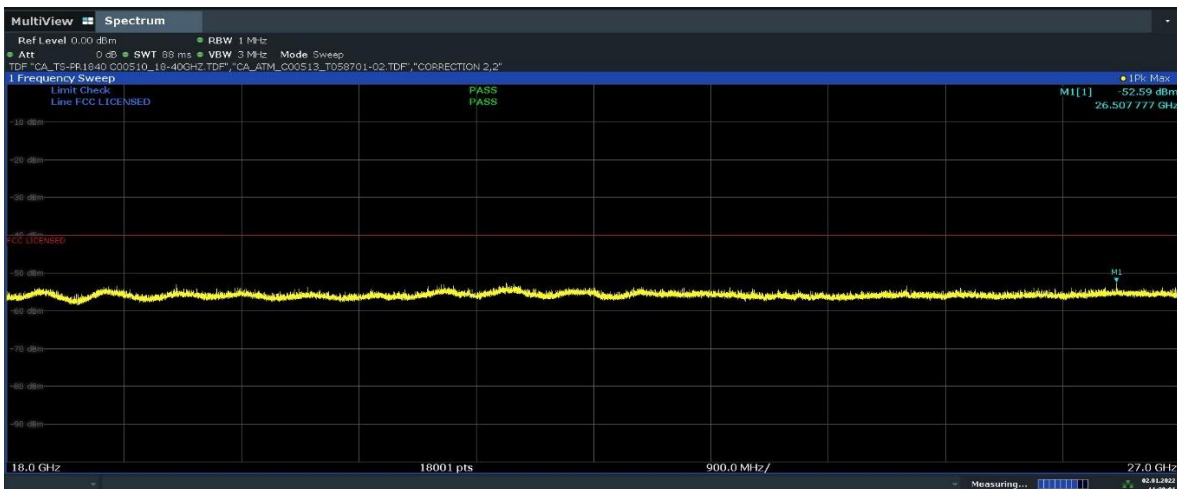
### LTE Band 30



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	<b>PCTEST</b> Proud to be part of element	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

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

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]
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)**

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


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]
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)**

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

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]
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)**

<b>FCC ID:</b> BCGA2589	 <b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2111150079-04-R1.BCG	<b>Test Dates:</b> 12/2/2021 - 2/16/2022	<b>EUT Type:</b> 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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		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 [dBμV/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 [dBμV/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 [dBμV/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
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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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>						Approved by: Technical Manager
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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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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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 [dBμV/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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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 [dBμV/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 [dBμV/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 [dBμV/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)

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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 [dBμV/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 [dBμV/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

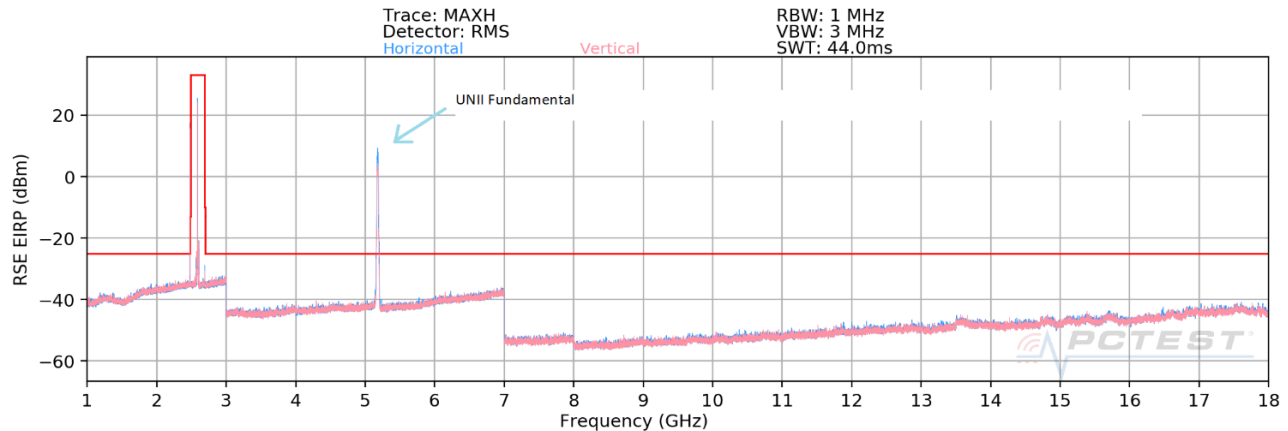
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-82.14	10.15	35.01	-60.25	-25.00	-35.25
8040.0	H	-	-	-83.34	12.80	36.46	-58.80	-25.00	-33.80
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)

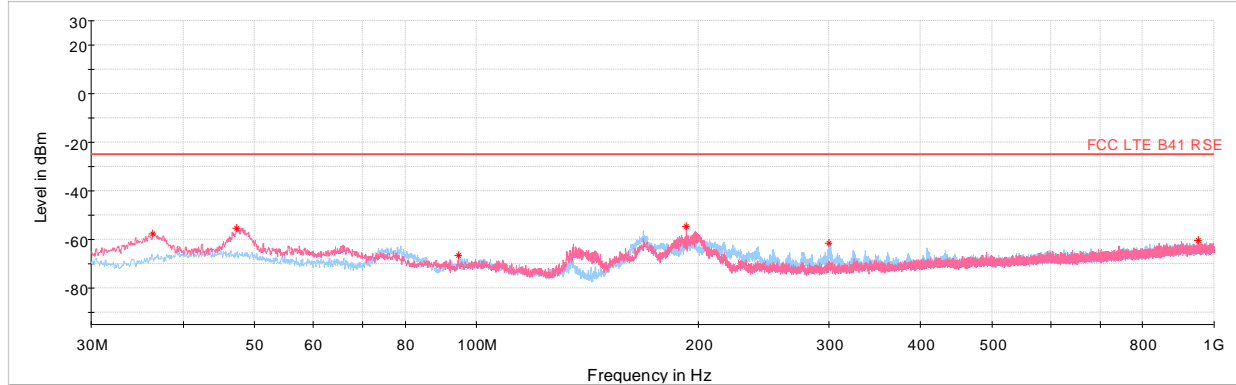
FCC ID: BCGA2589	 <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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## 7.6.5 Simultaneous Transmission

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



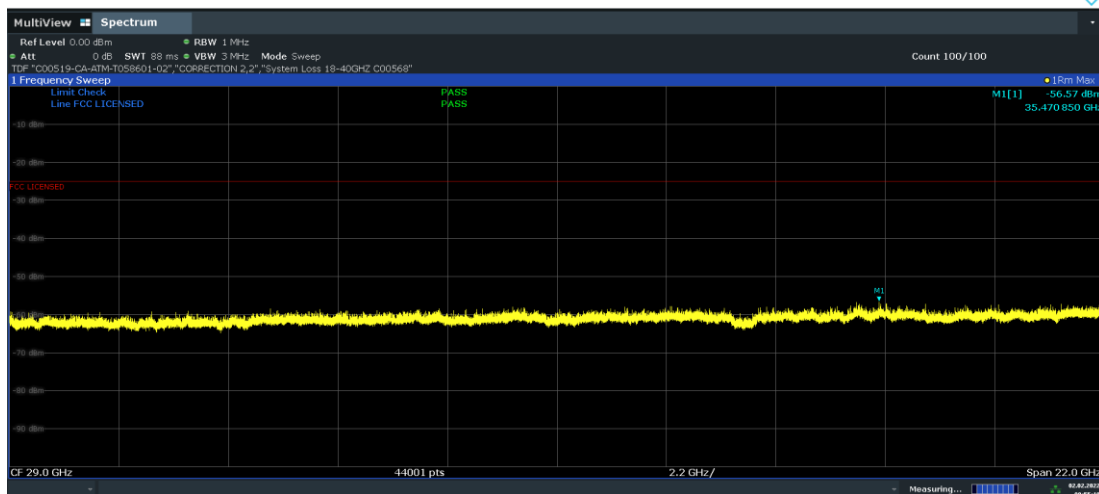
**Plot 7-321. Radiated Spurious Emissions – Simultaneous Transmission 1GHz – 18GHz**



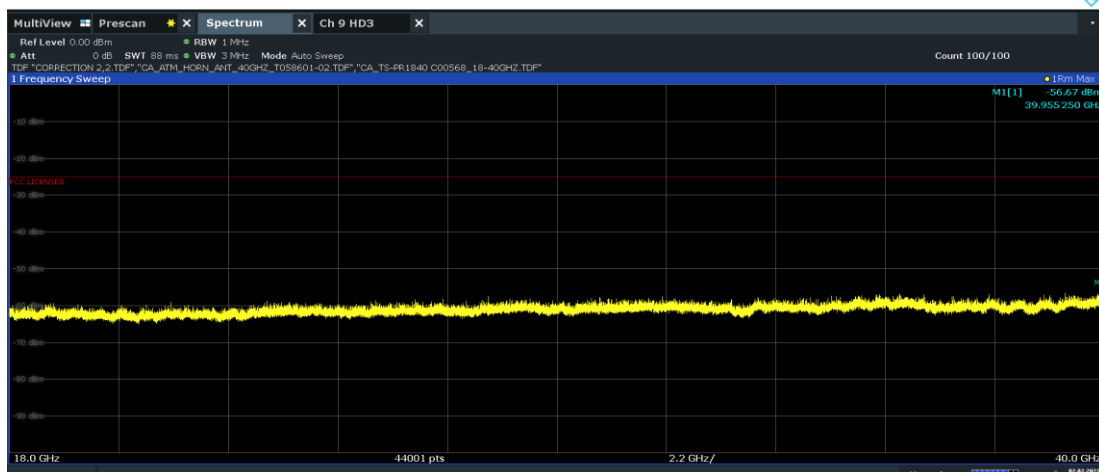
Preview Result 1H-PK+    Preview Result 1V-PK+    Critical\_Freqs PK+    FCC LTE B41 RSE    Final\_Result PK+

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


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



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

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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 [dBμV/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 [dBμV/m]	Limit [dBμV/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 [dBμV/m]	Limit [dBμV/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**

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## 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:

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

### Test Procedure Used

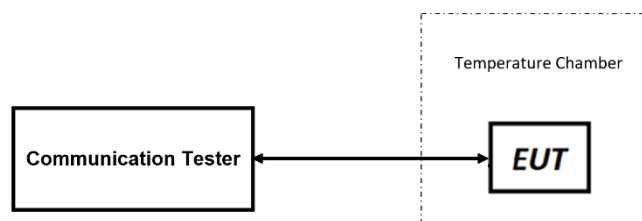
ANSI C63.26 2015

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.

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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):	3.8

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**

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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	2,510,000,009	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>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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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):	3.8

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**

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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	2,307,499,994	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>PART 27 MEASUREMENT REPORT</b>		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	2,509,998,817	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

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## Frequency Stability / Temperature Variation

### NR Band n41

Low Channel Frequency (Hz):	2,546,010,000
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	2,545,913,618	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>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 8.0 CONCLUSION

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

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