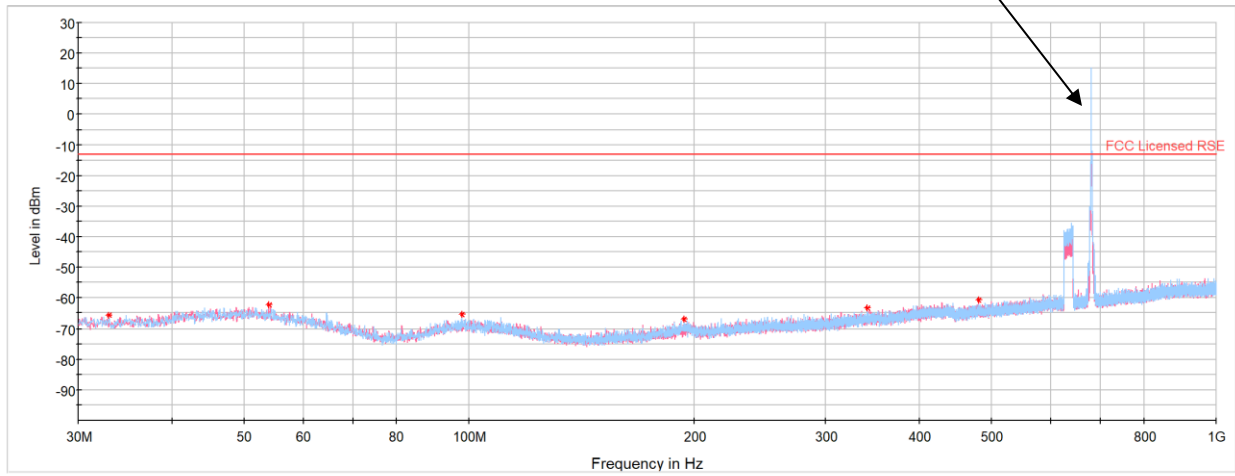


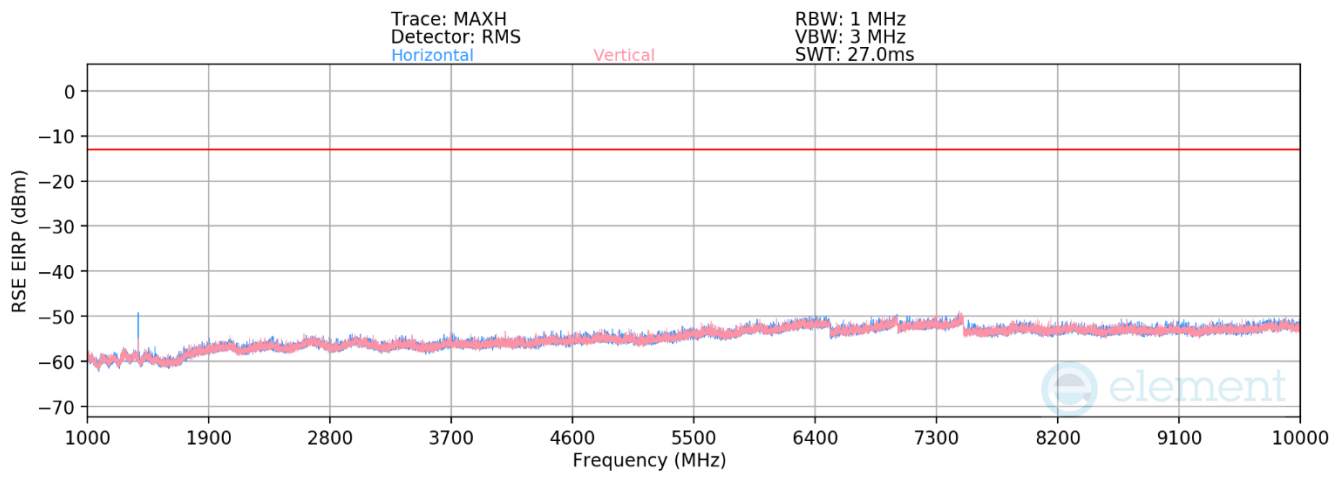
LTE Band 71

LTE Fundamental



Preview Result 1V-RMS Preview Result 1H-RMS Critical_Freqs RMS FCC Licensed RSE Final_Result RMS

Plot 7-479. Antenna 4 Radiated Spurious Emission below 18GHz (LTE Band 71)



Plot 7-480. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 71)

FCC ID: BCGA2903	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 308 of 351

Bandwidth (MHz):	20
Frequency (MHz):	673.0
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]
1346.0	H	109	351	-67.29	-4.77	34.94	-60.32	-13.00	-47.32
2019.0	H	-	-	-73.91	-1.15	31.94	-63.32	-13.00	-50.32
2692.0	H	-	-	-75.14	1.10	32.96	-62.30	-13.00	-49.30
3365.0	H	-	-	-75.94	1.96	33.03	-62.23	-13.00	-49.23

Table 7-37. Antenna 4 Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	250	350	-66.41	-4.79	35.80	-59.46	-13.00	-46.46
2041.5	H	-	-	-74.08	-0.88	32.04	-63.22	-13.00	-50.22
2722.0	H	-	-	-75.10	1.05	32.95	-62.30	-13.00	-49.30
3402.5	H	-	-	-76.27	2.04	32.77	-62.49	-13.00	-49.49

Table 7-38. Antenna 4 Radiated Spurious Data (LTE Band 71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
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]
1376.0	H	117	349	-66.38	-4.72	35.90	-59.36	-13.00	-46.36
2064.0	H	-	-	-73.94	-0.88	32.18	-63.08	-13.00	-50.08
2752.0	H	-	-	-75.02	0.74	32.71	-62.54	-13.00	-49.54
3440.0	H	-	-	-76.30	1.79	32.50	-62.76	-13.00	-49.76

Table 7-39. Antenna 4 Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 309 of 351

LTE Band 12/17

Bandwidth (MHz):	10
Frequency (MHz):	704.0
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]
1408.0	H	201	210	-61.90	-5.25	39.85	-55.41	-13.00	-42.41
2112.0	H	-	-	-74.05	-1.34	31.61	-63.65	-13.00	-50.65
2816.0	H	-	-	-75.42	0.26	31.84	-63.42	-13.00	-50.42
3520.0	H	-	-	-76.02	1.30	32.28	-62.98	-13.00	-49.98

Table 7-40. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	109	134	-65.00	-5.12	36.88	-58.38	-13.00	-45.38
2122.5	H	-	-	-74.31	-1.48	31.21	-64.04	-13.00	-51.04
2830.0	H	-	-	-75.28	0.10	31.82	-63.44	-13.00	-50.44
3537.5	H	-	-	-76.26	1.28	32.02	-63.24	-13.00	-50.24

Table 7-41. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

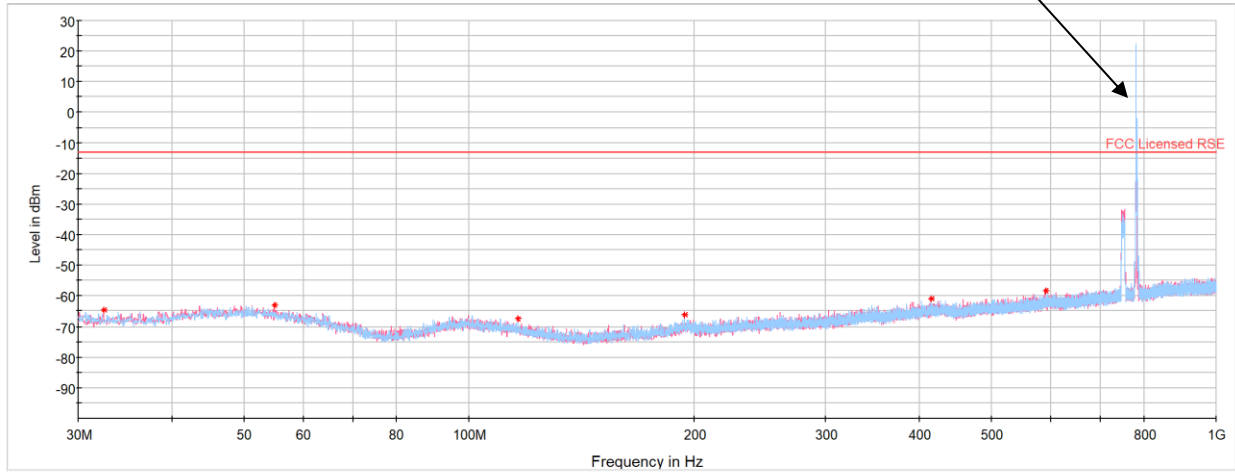
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	H	-	-	-70.79	-5.12	31.09	-64.17	-13.00	-51.17
2133.0	H	-	-	-74.43	-1.53	31.04	-64.21	-13.00	-51.21
2844.0	H	-	-	-74.95	0.00	32.05	-63.20	-13.00	-50.20
3555.0	H	-	-	-76.12	1.30	32.18	-63.08	-13.00	-50.08

Table 7-42. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – High Channel)

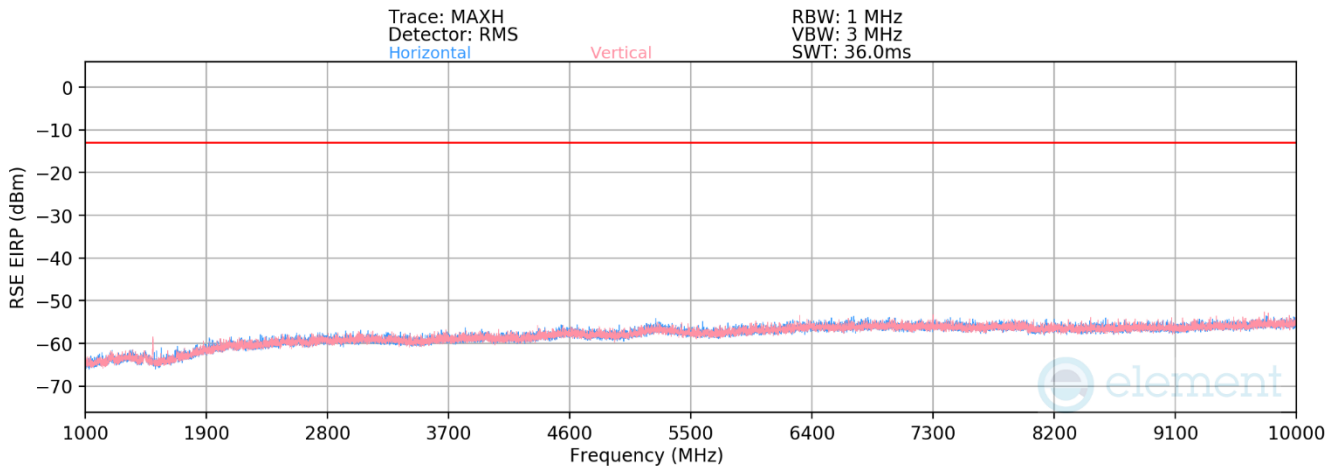
FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 310 of 351

LTE Band 13

LTE Fundamental



Plot 7-481. Antenna 4 Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-482. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCGA2903	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 311 of 351

Bandwidth (MHz):	5
Frequency (MHz):	779.5
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]
1559.0	H	249	38	-71.76	-6.28	28.96	-66.30	-40.00	-26.30
2338.5	H	-	-	-75.57	-1.95	29.48	-65.77	-13.00	-52.77
3118.0	H	-	-	-76.14	-0.23	30.63	-64.63	-13.00	-51.63
3897.5	H	-	-	-76.55	0.55	31.00	-64.26	-13.00	-51.26

Table 7-43. Antenna 4 Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	782.0
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]
1564.0	H	167	37	-72.35	-6.28	28.37	-66.89	-40.00	-26.89
2346.0	H	-	-	-75.47	-1.95	29.58	-65.67	-13.00	-52.67
3128.0	H	-	-	-76.05	-0.23	30.72	-64.54	-13.00	-51.54
3910.0	H	-	-	-76.49	0.55	31.06	-64.20	-13.00	-51.20

Table 7-44. Antenna 4 Radiated Spurious Data (LTE Band 13 – Mid Channel)

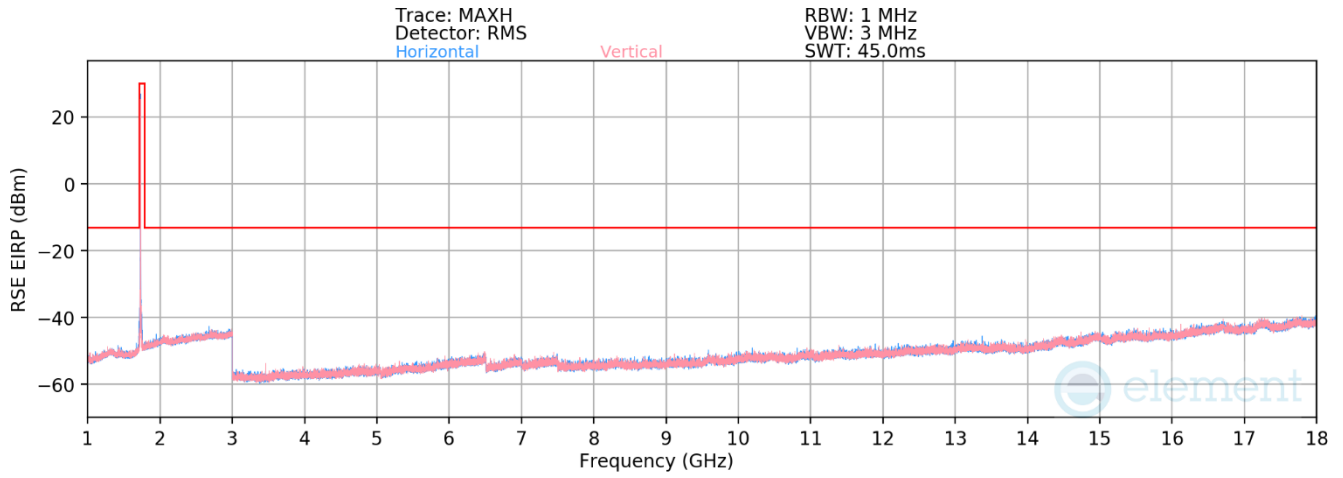
Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 12

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]
1569.0	H	257	81	-71.56	-6.28	29.16	-66.10	-40.00	-26.10
2353.5	H	-	-	-75.34	-1.95	29.71	-65.54	-13.00	-52.54
3138.0	H	-	-	-75.74	-0.23	31.03	-64.23	-13.00	-51.23
3922.5	H	-	-	-76.07	0.55	31.48	-63.78	-13.00	-50.78


Table 7-45. Antenna 4 Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device
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NR Band n66



Plot 7-483. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n66)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 313 of 351

V2.2 09/07/2023

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
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]
3460.0	V	150	155	-72.87	2.50	36.63	-58.63	-13.00	-45.63
5190.0	V	-	-	-78.95	5.32	33.37	-61.89	-13.00	-48.89
6920.0	V	-	-	-80.12	8.28	35.16	-60.10	-13.00	-47.10
8650.0	V	-	-	-80.41	8.95	35.54	-59.72	-13.00	-46.72

Table 7-46. Antenna 4 Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
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]
3490.0	V	145	143	-74.72	2.59	34.87	-60.39	-13.00	-47.39
5235.0	V	-	-	-78.76	5.46	33.70	-61.56	-13.00	-48.56
6980.0	V	-	-	-79.96	8.18	35.22	-60.04	-13.00	-47.04
8725.0	V	-	-	-80.62	9.19	35.57	-59.69	-13.00	-46.69

Table 7-47. Antenna 4 Radiated Spurious Data (NR Band n66 – Mid Channel)

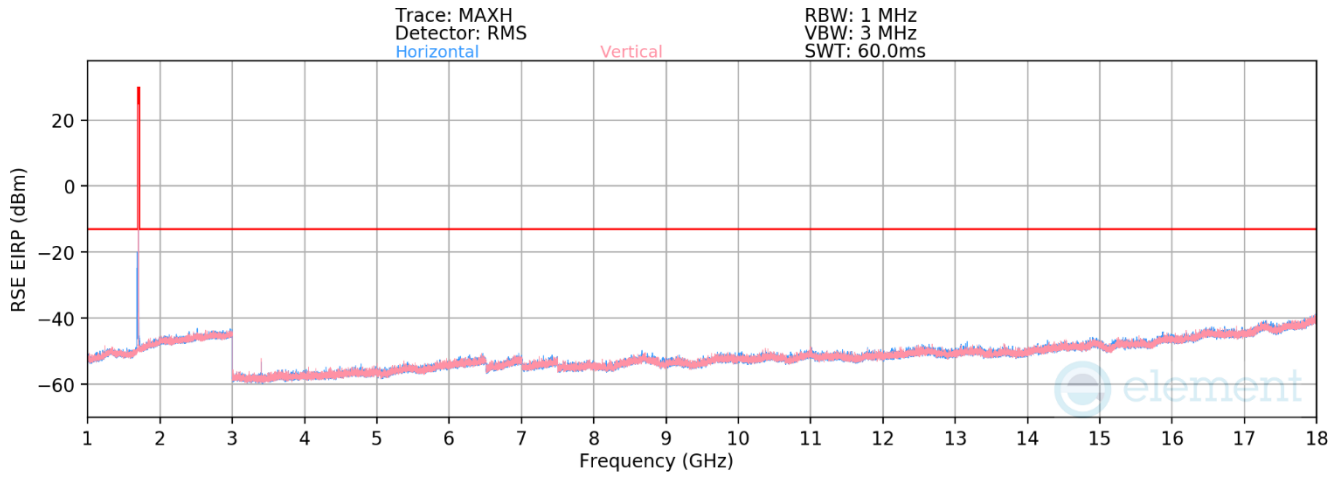
Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

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]
3520.0	V	140	159	-75.25	2.71	34.46	-60.80	-13.00	-47.80
5280.0	V	-	-	-78.96	5.81	33.85	-61.41	-13.00	-48.41
7040.0	V	-	-	-80.24	8.25	35.01	-60.25	-13.00	-47.25
8800.0	V	-	-	-81.00	9.45	35.45	-59.81	-13.00	-46.81


Table 7-48. Antenna 4 Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 314 of 351

NR Band n70



Plot 7-484. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n70)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 315 of 351

V2.2 09/07/2023

Bandwidth (MHz):	10
Frequency (MHz):	1700.0
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3400.0	V	347	221	-70.02	2.48	39.45	-55.81	-13.00	-42.81
5100.0	V	-	-	-79.27	5.53	33.26	-62.00	-13.00	-49.00
6800.0	V	-	-	-79.70	8.38	35.68	-59.58	-13.00	-46.58
8500.0	V	-	-	-80.21	8.46	35.25	-60.01	-13.00	-47.01

Table 7-49. Antenna 4 Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1702.5
RB / Offset:	1 / 37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.0	V	361	222	-70.50	2.47	38.97	-56.29	-13.00	-43.29
5107.5	V	-	-	-78.97	5.53	33.56	-61.70	-13.00	-48.70
6810.0	V	-	-	-79.50	8.38	35.87	-59.38	-13.00	-46.38
8512.5	V	-	-	-79.92	8.38	35.45	-59.80	-13.00	-46.80

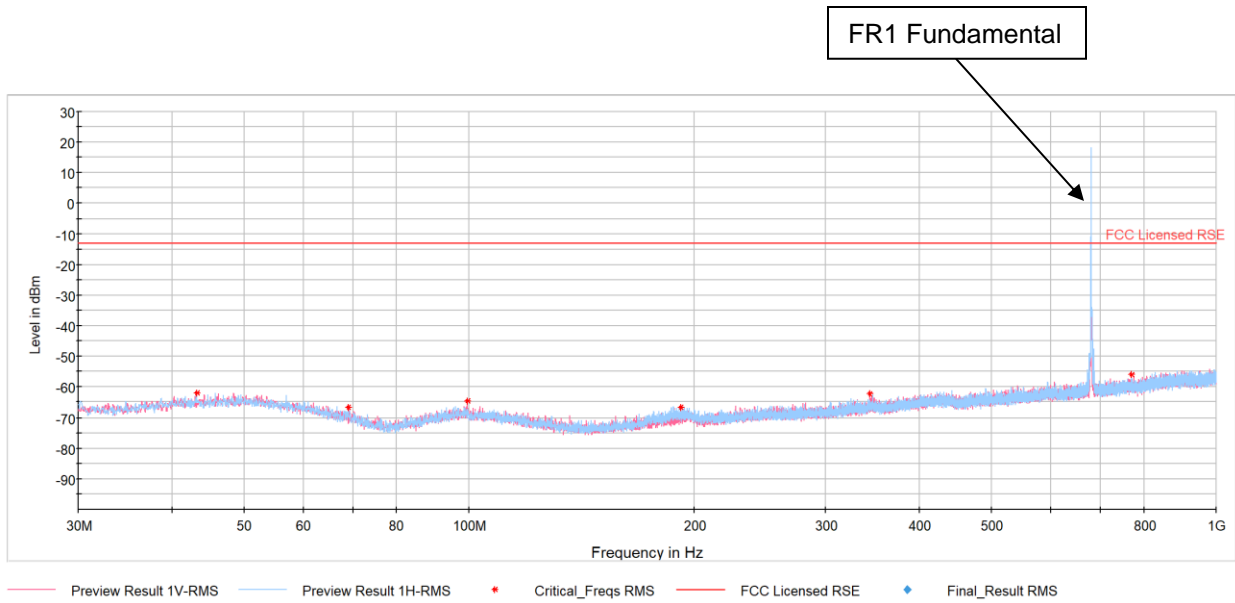
Table 7-50. Antenna 4 Radiated Spurious Data (NR Band n70 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1705.0
RB / Offset:	1 / 37

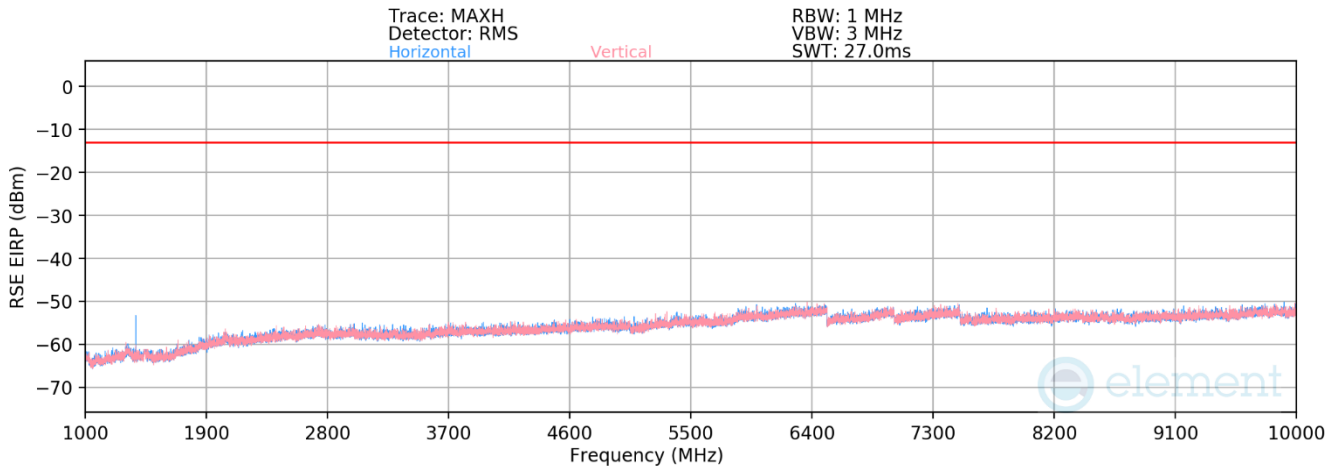
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3410.0	V	333	222	-71.01	2.47	38.46	-56.80	-13.00	-43.80
5115.0	V	-	-	-79.09	5.57	33.48	-61.77	-13.00	-48.77
6820.0	V	-	-	-79.22	8.48	36.27	-58.99	-13.00	-45.99
8525.0	V	-	-	-80.05	8.38	35.33	-59.93	-13.00	-46.93

Table 7-51. Antenna 4 Radiated Spurious Data (NR Band n70 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 316 of 351



Plot 7-485. Antenna 4 Radiated Spurious Emission below 1GHz (NR Band n71)



Plot 7-486. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n71)

FCC ID: BCGA2903	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 317 of 351

Bandwidth (MHz):	20
Frequency (MHz):	673.0
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]
1346.0	H	215	267	-70.83	-3.16	33.01	-62.25	-13.00	-49.25
2019.0	H	-	-	-77.18	0.08	29.90	-65.36	-13.00	-52.36
2692.0	H	-	-	-77.99	2.05	31.06	-64.20	-13.00	-51.20
3365.0	H	-	-	-78.28	2.40	31.12	-64.14	-13.00	-51.14

Table 7-52. Antenna 4 Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	211	259	-69.01	-3.41	34.58	-60.68	-13.00	-47.68
2041.5	H	-	-	-77.29	0.24	29.95	-65.31	-13.00	-52.31
2722.0	H	-	-	-77.98	1.99	31.01	-64.25	-13.00	-51.25
3402.5	H	-	-	-78.46	2.42	30.96	-64.30	-13.00	-51.30

Table 7-53. Antenna 4 Radiated Spurious Data (NR Band n71 – Mid Channel)

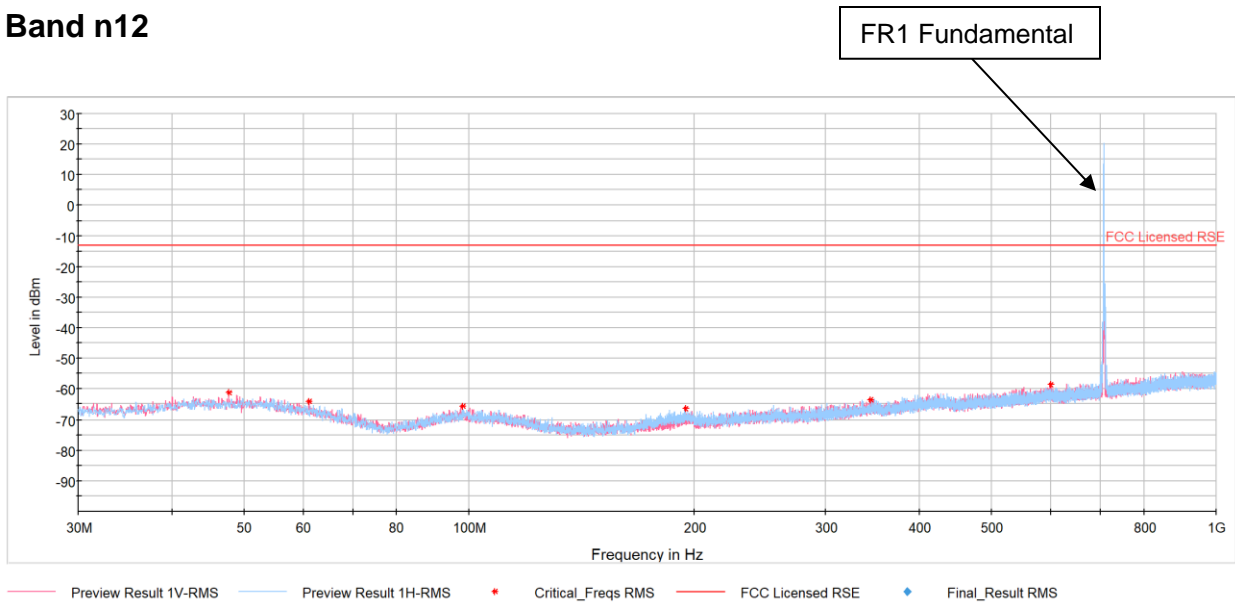
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

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]
1376.0	H	199	248	-67.62	-3.61	35.77	-59.49	-13.00	-46.49
2064.0	H	-	-	-77.25	0.18	29.93	-65.33	-13.00	-52.33
2752.0	H	-	-	-77.70	1.84	31.14	-64.12	-13.00	-51.12
3440.0	H	-	-	-78.00	2.50	31.50	-63.76	-13.00	-50.76

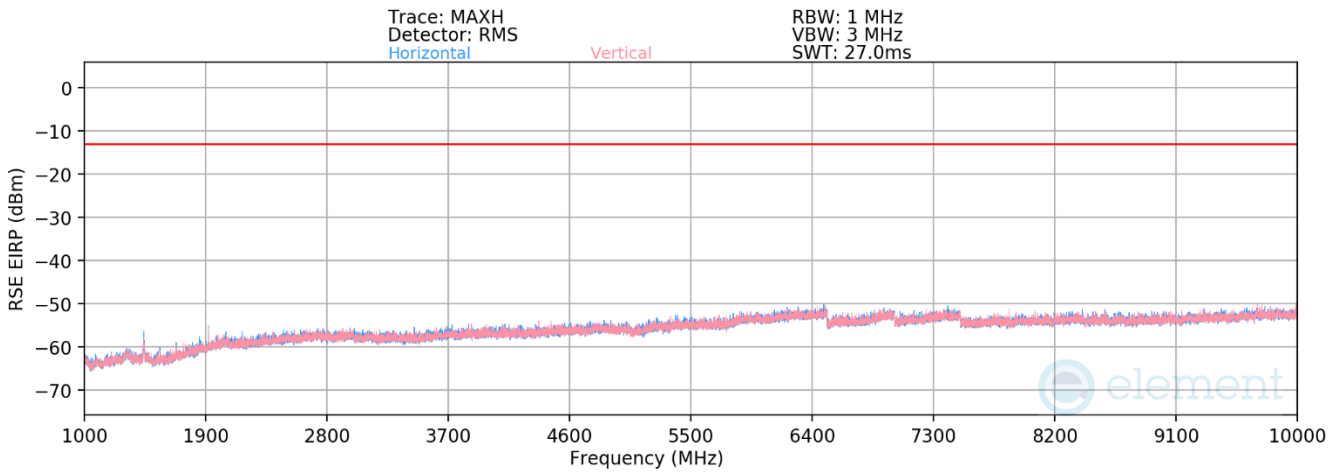
Table 7-54. Antenna 4 Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 318 of 351

NR Band n12



Plot 7-487. Antenna 4 Radiated Spurious Emission below 1GHz (NR Band n12)



Plot 7-488. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n12)

FCC ID: BCGA2903	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-09.BCG	Test Dates: 10/1/2023 - 3/19/2024	EUT Type: Tablet Device	Page 319 of 351

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	211	253	-65.96	-3.91	37.13	-58.13	-13.00	-45.13
2119.5	H	-	-	-76.57	-0.35	30.08	-65.18	-13.00	-52.18
2826.0	H	-	-	-77.62	1.47	30.85	-64.41	-13.00	-51.41
3532.5	H	-	-	-77.89	2.58	31.69	-63.57	-13.00	-50.57

Table 7-55. Antenna 4 Radiated Spurious Data (NR Band n12 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	222	263	-66.22	-3.89	36.89	-58.37	-13.00	-45.37
2122.5	H	-	-	-75.99	-0.37	30.64	-64.62	-13.00	-51.62
2830.0	H	-	-	-77.55	1.41	30.86	-64.40	-13.00	-51.40
3537.5	H	-	-	-77.74	2.60	31.86	-63.40	-13.00	-50.40

Table 7-56. Antenna 4 Radiated Spurious Data (NR Band n12 – Mid Channel)

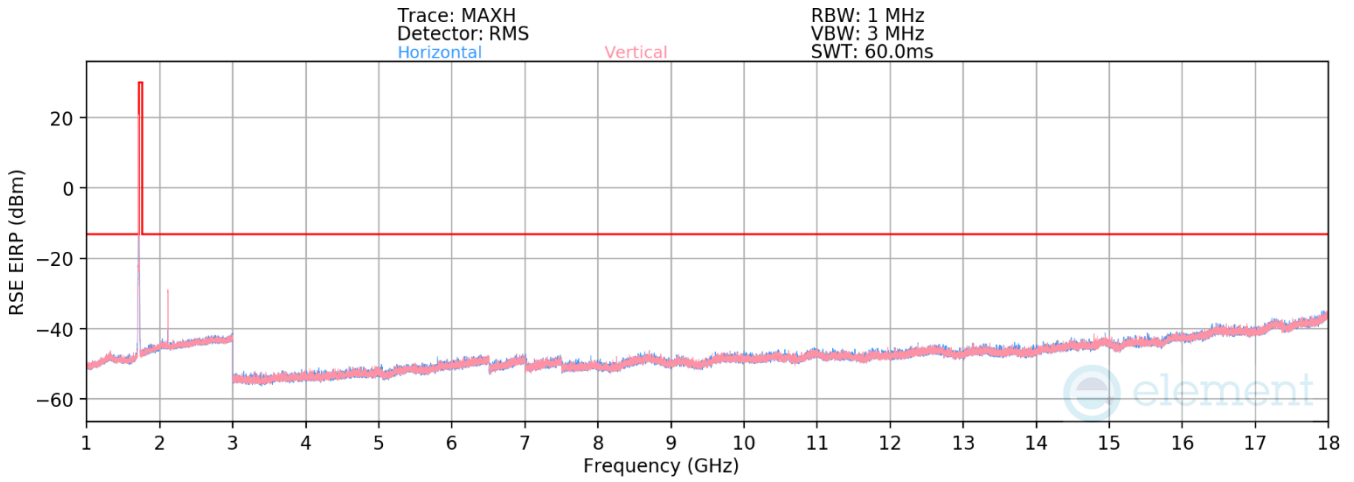
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	H	234	259	-66.03	-3.87	37.10	-58.16	-13.00	-45.16
2125.5	H	-	-	-76.40	-0.39	30.21	-65.05	-13.00	-52.05
2834.0	H	-	-	-77.67	1.36	30.69	-64.57	-13.00	-51.57
3542.5	H	-	-	-78.00	2.62	31.62	-63.64	-13.00	-50.64


Table 7-57. Antenna 4 Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA AWS



Plot 7-489. Antenna 4 Radiated Spurious Emission above 1GHz (WCDMA AWS)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	V	354	221	-75.34	2.56	34.22	-61.04	-13.00	-48.04
5137.2	V	-	-	-79.42	5.41	32.99	-62.27	-13.00	-49.27
6849.6	V	-	-	-80.21	8.69	35.48	-59.77	-13.00	-46.77
8562.0	V	-	-	-80.02	8.67	35.65	-59.60	-13.00	-46.60

7-58. Antenna 4 Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	V	345	215	-76.20	2.52	33.32	-61.94	-13.00	-48.94
5197.8	V	-	-	-79.17	5.40	33.23	-62.03	-13.00	-49.03
6930.4	V	-	-	-79.63	8.41	35.78	-59.48	-13.00	-46.48
8663.0	V	-	-	-79.88	9.10	36.22	-59.04	-13.00	-46.04

Table 7-59. Antenna 4 Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-78.12	2.66	31.54	-63.71	-13.00	-50.71
5257.8	V	-	-	-79.06	5.61	33.55	-61.71	-13.00	-48.71
7010.4	V	-	-	-79.84	8.46	35.62	-59.63	-13.00	-46.63

Table 7-60. Antenna 4 Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.2 Antenna 3b – Radiated Spurious Emission Measurement

LTE Band 71

Bandwidth (MHz):	20
Frequency (MHz):	673.0
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]
1346.0	H	-	-	-71.70	-4.83	30.46	-64.79	-13.00	-51.79
2019.0	H	-	-	-72.46	-1.15	33.39	-61.86	-13.00	-48.86
2692.0	H	-	-	-74.45	1.10	33.66	-61.60	-13.00	-48.60

Table 7-61. Antenna 3b Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	-	-	-71.62	-4.83	30.55	-64.71	-13.00	-51.71
2041.5	H	-	-	-72.86	-1.06	33.07	-62.19	-13.00	-49.19
2722.0	H	-	-	-74.76	1.05	33.29	-61.97	-13.00	-48.97

Table 7-62. Antenna 3b Radiated Spurious Data (LTE Band 71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

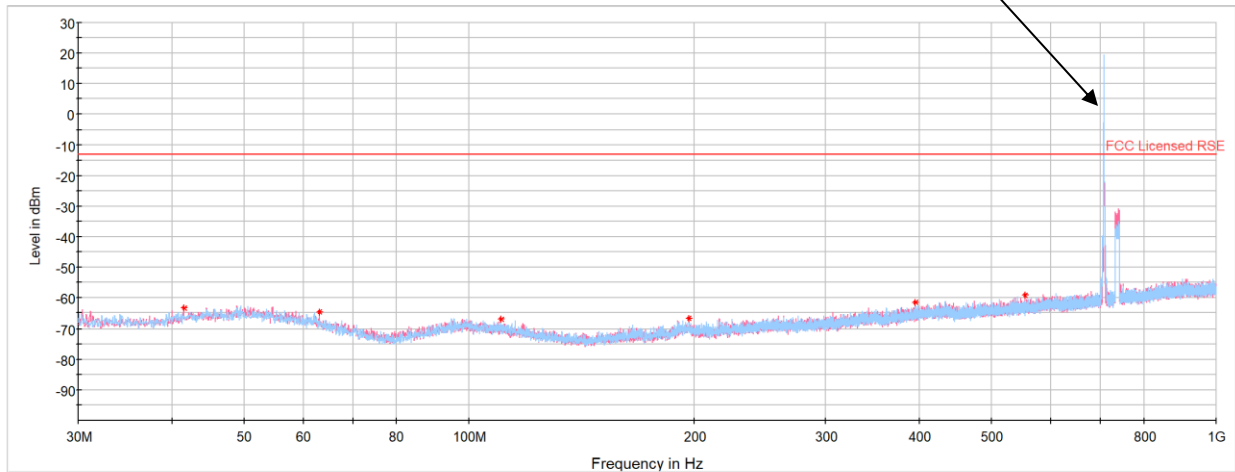
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	-	-	-71.76	-4.79	30.45	-64.81	-13.00	-51.81
2064.0	H	-	-	-72.30	-0.89	33.80	-61.45	-13.00	-48.45
2752.0	H	-	-	-74.56	0.74	33.18	-62.08	-13.00	-49.08

Table 7-63. Antenna 3b Radiated Spurious Data (LTE Band 71 – High Channel)

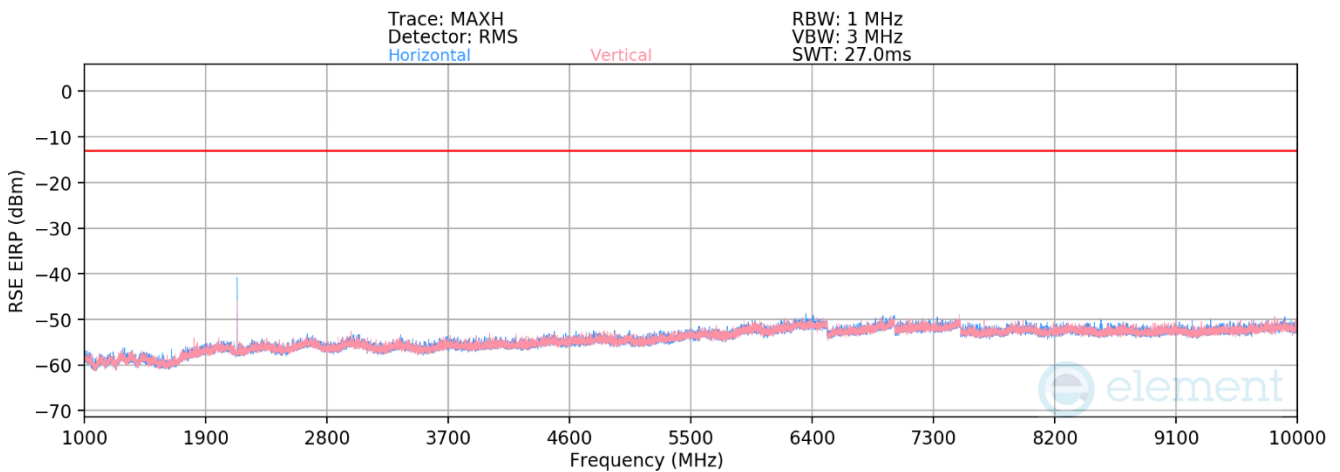
FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17


LTE Fundamental



Plot 7-490. Antenna 3b Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-491. Antenna 3b Radiated Spurious Emission above 1GHz (LTE Band 12/17)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	704.0
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]
1408.0	H	249	219	-68.07	-5.25	33.68	-61.58	-13.00	-48.58
2112.0	H	102	231	-51.90	-1.48	53.62	-41.64	-13.00	-28.64
2816.0	H	-	-	-74.83	0.26	32.43	-62.83	-13.00	-49.83
3520.0	H	-	-	-75.89	1.30	32.41	-62.84	-13.00	-49.84
4224.0	H	-	-	-76.82	2.96	33.14	-62.12	-13.00	-49.12

Table 7-64. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	167	219	-68.34	-5.12	33.54	-61.72	-13.00	-48.72
2122.5	H	102	237	-52.35	-1.53	53.12	-42.14	-13.00	-29.14
2830.0	H	-	-	-74.43	0.00	32.57	-62.68	-13.00	-49.68
3537.5	H	-	-	-75.59	1.28	32.69	-62.56	-13.00	-49.56
4245.0	H	-	-	-76.63	3.00	33.37	-61.88	-13.00	-48.88

Table 7-65. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	711.0
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]
1422.0	H	340	219	-68.01	-5.12	33.87	-61.39	-13.00	-48.39
2133.0	H	102	234	-51.22	-1.53	54.26	-41.00	-13.00	-28.00
2844.0	H	-	-	-74.46	0.00	32.54	-62.72	-13.00	-49.72
3555.0	H	-	-	-75.78	1.30	32.52	-62.74	-13.00	-49.74
4266.0	H	-	-	-76.95	3.07	33.12	-62.14	-13.00	-49.14

Table 7-66. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13

Bandwidth (MHz):	5
Frequency (MHz):	779.5
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]
1559.0	V	263	181	-72.89	-6.28	27.83	-67.43	-40.00	-27.43
2338.5	V	-	-	-75.27	-1.95	29.78	-65.47	-13.00	-52.47
3118.0	V	-	-	-75.65	-0.23	31.12	-64.14	-13.00	-51.14
3897.5	V	-	-	-76.59	0.55	30.96	-64.30	-13.00	-51.30

Table 7-67. Antenna 3b Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	782.0
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]
1564.0	H	116	227	-73.58	-6.28	27.14	-68.12	-40.00	-28.12
2346.0	H	-	-	-75.57	-1.95	29.48	-65.77	-13.00	-52.77
3128.0	H	-	-	-75.93	-0.23	30.84	-64.42	-13.00	-51.42
3910.0	H	-	-	-76.52	0.55	31.03	-64.23	-13.00	-51.23

Table 7-68. Antenna 3b Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	784.5
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]
1569.0	V	194	118	-71.36	-6.28	29.36	-65.90	-40.00	-25.90
2353.5	V	-	-	-75.41	-1.95	29.64	-65.61	-13.00	-52.61
3138.0	V	-	-	-75.79	-0.23	30.98	-64.28	-13.00	-51.28
3922.5	V	-	-	-76.20	0.55	31.35	-63.91	-13.00	-50.91

Table 7-69. Antenna 3b Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71

Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	V	135	68	-74.56	-3.18	29.26	-66.00	-13.00	-53.00
2019.0	V	-	-	-76.94	0.08	30.14	-65.12	-13.00	-52.12
2692.0	V	-	-	-78.06	1.94	30.88	-64.38	-13.00	-51.38
3365.0	V	-	-	-78.33	2.41	31.08	-64.18	-13.00	-51.18

Table 7-70. Antenna 3b Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	V	-	-	-76.31	-3.41	27.28	-67.98	-13.00	-54.98
2041.5	V	121	51	-76.86	0.24	30.38	-64.88	-13.00	-51.88
2722.0	V	-	-	-78.08	1.99	30.91	-64.35	-13.00	-51.35
3402.5	V	-	-	-78.57	2.42	30.85	-64.41	-13.00	-51.41
4083.0	V	-	-	-78.67	3.51	31.84	-63.42	-13.00	-50.42

Table 7-71. Antenna 3b Radiated Spurious Data (NR Band n71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	V	-	-	-76.51	-3.61	26.88	-68.38	-13.00	-55.38
2064.0	V	-	-	-77.35	0.18	29.83	-65.43	-13.00	-52.43
2752.0	V	-	-	-77.71	1.84	31.13	-64.13	-13.00	-51.13

Table 7-72. Antenna 3b Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	134	96	-69.73	-3.91	33.36	-61.89	-13.00	-48.89
2119.5	H	156	85	-75.65	-0.35	31.00	-64.26	-13.00	-51.26
2826.0	H	-	-	-77.74	1.47	30.73	-64.53	-13.00	-51.53
3532.5	H	-	-	-77.95	2.58	31.63	-63.63	-13.00	-50.63
4239.0	H	-	-	-78.49	3.47	31.98	-63.28	-13.00	-50.28

Table 7-73. Antenna 3b Radiated Spurious Data (NR Band n12 – Low Channel)

Sample #:	
Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	140	102	-69.37	-3.89	33.74	-61.52	-13.00	-48.52
2122.5	H	-	-	-74.98	-0.37	31.65	-63.61	-13.00	-50.61
2830.0	H	-	-	-77.65	1.41	30.77	-64.49	-13.00	-51.49
3537.5	H	-	-	-77.86	2.60	31.74	-63.52	-13.00	-50.52

Table 7-74. Antenna 3b Radiated Spurious Data (NR Band n12 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	H	129	89	-69.36	-3.87	33.77	-61.49	-13.00	-48.49
2125.5	H	-	-	-75.97	-0.39	30.64	-64.62	-13.00	-51.62
2834.0	H	-	-	-77.65	1.36	30.71	-64.55	-13.00	-51.55
3542.5	H	-	-	-78.01	2.62	31.61	-63.65	-13.00	-50.65

Table 7-75. Antenna 3b Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.3 Antenna 2b – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
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]
3440.0	H	-	-	-78.17	2.43	31.26	-64.00	-13.00	-51.00
5160.0	H	-	-	-79.47	5.34	32.86	-62.39	-13.00	-49.39
6880.0	H	-	-	-79.84	8.36	35.52	-59.74	-13.00	-46.74

Table 7-76. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
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]
3490.0	H	-	-	-77.93	2.37	31.44	-63.82	-13.00	-50.82
5235.0	H	-	-	-79.13	5.31	33.18	-62.08	-13.00	-49.08
6980.0	H	-	-	-79.75	8.23	35.49	-59.77	-13.00	-46.77

Table 7-77. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
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]
3540.0	H	-	-	-78.13	2.62	31.49	-63.77	-13.00	-50.77
5310.0	H	-	-	-79.17	5.78	33.61	-61.65	-13.00	-48.65
7080.0	H	-	-	-79.77	8.27	35.50	-59.76	-13.00	-46.76

Table 7-78. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.0	V	-	-	-78.18	2.50	31.32	-63.94	-13.00	-50.94
5190.0	V	-	-	-79.11	5.32	33.21	-62.05	-13.00	-49.05
6920.0	V	-	-	-80.14	8.28	35.14	-60.12	-13.00	-47.12

Table 7-79. Antenna 2b Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-78.07	2.59	31.52	-63.74	-13.00	-50.74
5235.0	V	-	-	-78.98	5.46	33.48	-61.78	-13.00	-48.78
6980.0	V	-	-	-79.91	8.18	35.27	-59.99	-13.00	-46.99

Table 7-80. Antenna 2b Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.0	V	-	-	-77.86	2.71	31.85	-63.41	-13.00	-50.41
5280.0	V	-	-	-79.03	5.81	33.78	-61.48	-13.00	-48.48
7040.0	V	-	-	-80.25	8.25	35.00	-60.26	-13.00	-47.26

Table 7-81. Antenna 2b Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2903		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n70

Bandwidth (MHz):	10
Frequency (MHz):	1700.0
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3400.0	H	-	-	-78.15	2.55	31.40	-63.85	-13.00	-50.85
5100.0	H	-	-	-78.73	5.53	33.79	-61.47	-13.00	-48.47
6800.0	H	-	-	-79.63	8.38	35.74	-59.51	-13.00	-46.51

Table 7-82. Antenna 2b Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1702.5
RB / Offset:	1 / 37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.0	H	-	-	-78.06	2.55	31.49	-63.77	-13.00	-50.77
5107.5	H	-	-	-79.02	5.53	33.50	-61.75	-13.00	-48.75
6810.0	H	-	-	-79.84	8.53	35.70	-59.56	-13.00	-46.56

Table 7-83. Antenna 2b Radiated Spurious Data (NR Band n70 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1705.0
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3410.0	H	-	-	-78.01	2.55	31.55	-63.71	-13.00	-50.71
5115.0	H	-	-	-79.05	5.57	33.52	-61.73	-13.00	-48.73
6820.0	H	-	-	-79.72	8.48	35.77	-59.49	-13.00	-46.49

Table 7-84. Antenna 2b Radiated Spurious Data (NR Band n70 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	H	-	-	-78.11	2.43	31.32	-63.94	-13.00	-50.94
5137.2	H	-	-	-79.27	5.33	33.06	-62.20	-13.00	-49.20
6849.6	H	-	-	-79.79	8.36	35.58	-59.68	-13.00	-46.68

7-85. Antenna 2b Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	H	132	205	-72.19	2.41	37.22	-58.04	-13.00	-45.04
5197.8	H	-	-	-78.87	5.34	33.47	-61.79	-13.00	-48.79
6930.4	H	-	-	-79.72	8.32	35.61	-59.65	-13.00	-46.65
8663.0	H	-	-	-80.09	9.15	36.06	-59.20	-13.00	-46.20

Table 7-86. Antenna 2b Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	H	-	-	-77.88	2.37	31.48	-63.77	-13.00	-50.77
5257.8	H	-	-	-78.96	5.32	33.37	-61.89	-13.00	-48.89
7010.4	H	-	-	-79.61	8.23	35.62	-59.64	-13.00	-46.64

Table 7-87. Antenna 2b Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2903		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.4 Antenna 3a – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
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]
3440.0	H	-	-	-78.21	2.43	31.22	-64.04	-13.00	-51.04
5160.0	H	-	-	-79.50	5.33	32.83	-62.42	-13.00	-49.42
6880.0	H	-	-	-79.80	8.36	35.56	-59.70	-13.00	-46.70

Table 7-88. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
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]
3490.0	H	-	-	-78.04	2.41	31.37	-63.89	-13.00	-50.89
5235.0	H	-	-	-79.03	5.31	33.28	-61.98	-13.00	-48.98
6980.0	H	-	-	-79.66	8.23	35.58	-59.68	-13.00	-46.68

Table 7-89. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
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]
3540.0	H	-	-	-78.25	2.92	31.68	-63.58	-13.00	-50.58
5310.0	H	-	-	-79.14	5.86	33.72	-61.54	-13.00	-48.54
7080.0	H	-	-	-79.84	8.27	35.44	-59.82	-13.00	-46.82

Table 7-90. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2903		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.0	V	-	-	-78.06	2.50	31.44	-63.82	-13.00	-50.82
5190.0	V	-	-	-79.15	5.32	33.17	-62.09	-13.00	-49.09
6920.0	V	-	-	-79.96	8.28	35.32	-59.94	-13.00	-46.94

Table 7-91. Antenna 3a Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-77.97	2.59	31.62	-63.64	-13.00	-50.64
5235.0	V	-	-	-79.05	5.46	33.41	-61.85	-13.00	-48.85
6980.0	V	-	-	-80.00	8.18	35.18	-60.08	-13.00	-47.08

Table 7-92. Antenna 3a Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.0	V	-	-	-77.89	2.71	31.82	-63.44	-13.00	-50.44
5280.0	V	-	-	-79.29	5.81	33.52	-61.74	-13.00	-48.74
7040.0	V	-	-	-80.22	8.25	35.03	-60.23	-13.00	-47.23

Table 7-93. Antenna 3a Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n70

Bandwidth (MHz):	10
Frequency (MHz):	1700.0
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3400.0	H	-	-	-78.18	2.55	31.37	-63.88	-13.00	-50.88
5100.0	H	-	-	-79.24	5.53	33.28	-61.97	-13.00	-48.97
6800.0	H	-	-	-79.72	8.38	35.66	-59.60	-13.00	-46.60

Table 7-94. Antenna 3a Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1702.5
RB / Offset:	1 / 37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.0	H	-	-	-78.16	2.55	31.40	-63.86	-13.00	-50.86
5107.5	H	-	-	-78.99	5.53	33.53	-61.72	-13.00	-48.72
6810.0	H	-	-	-79.40	8.38	35.98	-59.28	-13.00	-46.28

Table 7-95. Antenna 3a Radiated Spurious Data (NR Band n70 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1705.0
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3410.0	H	-	-	-78.14	2.48	31.33	-63.92	-13.00	-50.92
5115.0	H	-	-	-79.12	5.57	33.46	-61.80	-13.00	-48.80
6820.0	H	-	-	-79.59	8.48	35.89	-59.37	-13.00	-46.37

Table 7-96. Antenna 3a Radiated Spurious Data (NR Band n70 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	H	-	-	-78.10	2.47	31.37	-63.89	-13.00	-50.89
5137.2	H	-	-	-79.59	5.51	32.92	-62.34	-13.00	-49.34
6849.6	H	-	-	-79.99	8.55	35.56	-59.70	-13.00	-46.70

7-97. Antenna 3a Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	H	-	-	-78.23	2.52	31.29	-63.97	-13.00	-50.97
5197.8	H	-	-	-78.84	5.20	33.36	-61.89	-13.00	-48.89
6930.4	H	-	-	-79.58	8.32	35.74	-59.52	-13.00	-46.52

Table 7-98. Antenna 3a Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	H	-	-	-77.96	2.37	31.41	-63.85	-13.00	-50.85
5257.8	H	-	-	-79.00	5.32	33.33	-61.93	-13.00	-48.93
7010.4	H	-	-	-79.68	8.23	35.55	-59.70	-13.00	-46.70

Table 7-99. Antenna 3a Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2903		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.5 Antenna 1b – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
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]
3440.0	H	-	-	-77.86	2.43	31.58	-63.68	-13.00	-50.68
5160.0	H	-	-	-79.40	5.25	32.85	-62.41	-13.00	-49.41
6880.0	H	-	-	-79.88	8.36	35.48	-59.78	-13.00	-46.78

Table 7-100. Antenna 1b Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
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]
3490.0	H	-	-	-77.95	2.41	31.46	-63.80	-13.00	-50.80
5235.0	H	-	-	-79.11	5.31	33.20	-62.06	-13.00	-49.06
6980.0	H	-	-	-79.54	8.16	35.62	-59.64	-13.00	-46.64

Table 7-101. Antenna 1b Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
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]
3540.0	H	-	-	-78.00	2.62	31.62	-63.64	-13.00	-50.64
5310.0	H	-	-	-79.05	5.86	33.82	-61.44	-13.00	-48.44
7080.0	H	-	-	-79.71	8.27	35.56	-59.70	-13.00	-46.70

Table 7-102. Antenna 1b Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.0	-	-	-	-78.11	2.50	31.39	-63.87	-13.00	-50.87
5190.0	-	-	-	-78.90	5.32	33.42	-61.84	-13.00	-48.84
6920.0	-	-	-	-80.18	8.28	35.10	-60.16	-13.00	-47.16

Table 7-103. Antenna 1b Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	-	-	-	-77.92	2.59	31.67	-63.59	-13.00	-50.59
5235.0	-	-	-	-78.87	5.46	33.59	-61.67	-13.00	-48.67
6980.0	-	-	-	-79.90	8.18	35.28	-59.98	-13.00	-46.98

Table 7-104. Antenna 1b Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.0	-	-	-	-78.00	2.71	31.71	-63.55	-13.00	-50.55
5280.0	-	-	-	-79.34	5.81	33.47	-61.79	-13.00	-48.79
7040.0	-	-	-	-80.36	8.25	34.89	-60.37	-13.00	-47.37

Table 7-105. Antenna 1b Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70

Bandwidth (MHz):	10
Frequency (MHz):	1700.0
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3400.0	H	-	-	-78.17	2.55	31.38	-63.87	-13.00	-50.87
5100.0	H	-	-	-79.04	5.53	33.49	-61.77	-13.00	-48.77
6800.0	H	-	-	-79.46	8.38	35.92	-59.34	-13.00	-46.34

Table 7-106. Antenna 1b Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1702.5
RB / Offset:	1 / 37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.0	H	-	-	-78.14	2.55	31.41	-63.85	-13.00	-50.85
5107.5	H	-	-	-78.99	5.53	33.54	-61.72	-13.00	-48.72
6810.0	H	-	-	-79.47	8.38	35.91	-59.35	-13.00	-46.35

Table 7-107. Antenna 1b Radiated Spurious Data (NR Band n70 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1705.0
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3410.0	H	-	-	-78.06	2.55	31.50	-63.76	-13.00	-50.76
5115.0	H	-	-	-78.76	5.57	33.81	-61.44	-13.00	-48.44
6820.0	H	-	-	-79.54	8.48	35.94	-59.32	-13.00	-46.32

Table 7-108. Antenna 1b Radiated Spurious Data (NR Band n70 – High Channel)

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WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	V	-	-	-78.04	2.43	31.40	-63.86	-13.00	-50.86
5137.2	V	-	-	-79.35	5.33	32.98	-62.27	-13.00	-49.27
6849.6	V	-	-	-79.63	8.36	35.73	-59.52	-13.00	-46.52

7-109. Antenna 1b Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	V	-	-	-78.10	2.52	31.41	-63.84	-13.00	-50.84
5197.8	V	-	-	-78.71	5.20	33.49	-61.76	-13.00	-48.76
6930.4	V	-	-	-79.52	8.32	35.80	-59.46	-13.00	-46.46

Table 7-110. Antenna 1b Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-77.94	2.41	31.48	-63.78	-13.00	-50.78
5257.8	V	-	-	-79.02	5.31	33.29	-61.97	-13.00	-48.97
7010.4	V	-	-	-79.71	8.23	35.52	-59.74	-13.00	-46.74

Table 7-111. Antenna 1b Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2903		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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7.8 Frequency Stability / Temperature Variation

§2.1053, §27.53

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

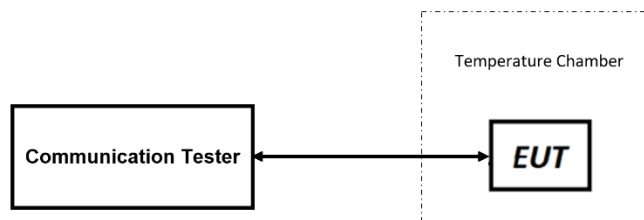



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 66/4				
		Operating Band Lower Boundary (GHz)	1.710	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.71109874	-0.00109874
		- 20	1.71089445	-0.00089445
		- 10	1.71105876	-0.00105876
		0	1.71106752	-0.00106751
		+ 10	1.71109875	-0.00109875
		+ 20 (Ref)	1.71110228	-0.00110228
		+ 30	1.71090545	-0.00090545
		+ 40	1.71099784	-0.00099784
		+ 50	1.71112557	-0.00112557
Battery Endpoint	3.40	+ 20	1.71109652	-0.00109652

Table 7-112. LTE Band 66/4 Lower Boundary Frequency Stability Data

LTE Band 66/4				
		Operating Band Upper Boundary (GHz)	1.780	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.77923548	-0.00076452
		- 20	1.77919865	-0.00080135
		- 10	1.77919936	-0.00080064
		0	1.77920433	-0.00079567
		+ 10	1.77921625	-0.00078375
		+ 20 (Ref)	1.77920836	-0.00079164
		+ 30	1.77921136	-0.00078864
		+ 40	1.77920228	-0.00079772
		+ 50	1.77921066	-0.00078934
Battery Endpoint	3.40	+ 20	1.77921785	-0.00078215

Table 7-113. LTE Band 66/4 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 71				
Operating Band Lower Boundary (GHz)			0.663	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.66357086	-0.00057086
		- 20	0.66357133	-0.00057133
		- 10	0.66357864	-0.00057864
		0	0.66357037	-0.00057037
		+ 10	0.66356763	-0.00056763
		+ 20 (Ref)	0.66356365	-0.00056365
		+ 30	0.66356937	-0.00056937
		+ 40	0.66356345	-0.00056345
		+ 50	0.66356064	-0.00056064
Battery Endpoint	3.40	+ 20	0.66356536	-0.00056536

Table 7-114. LTE Band 71 Lower Boundary Frequency Stability Data

LTE Band 71				
Operating Band Upper Boundary (GHz)			0.698	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69743522	-0.00056478
		- 20	0.69744536	-0.00055464
		- 10	0.69744054	-0.00055946
		0	0.69744023	-0.00055977
		+ 10	0.69743864	-0.00056136
		+ 20 (Ref)	0.69744234	-0.00055766
		+ 30	0.69743963	-0.00056037
		+ 40	0.69742863	-0.00057137
		+ 50	0.69742632	-0.00057368
Battery Endpoint	3.40	+ 20	0.69743235	-0.00056765

Table 7-115. LTE Band 71 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 12/17				
Operating Band Lower Boundary (GHz)			0.699	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69944137	-0.00044137
		- 20	0.69943232	-0.00043232
		- 10	0.69943763	-0.00043763
		0	0.69943123	-0.00043123
		+ 10	0.69943254	-0.00043254
		+ 20 (Ref)	0.69942512	-0.00042512
		+ 30	0.69943212	-0.00043212
		+ 40	0.69943216	-0.00043216
Battery Endpoint	3.40	+ 20	0.69943124	-0.00043124

Table 7-116. LTE Band 12/17 Lower Boundary Frequency Stability Data

LTE Band 12/17				
Operating Band Upper Boundary (GHz)			0.716	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.71553035	-0.00046965
		- 20	0.71553179	-0.00046821
		- 10	0.71553879	-0.00046121
		0	0.71553542	-0.00046458
		+ 10	0.71553232	-0.00046768
		+ 20 (Ref)	0.71552612	-0.00047388
		+ 30	0.71552934	-0.00047066
		+ 40	0.71553612	-0.00046388
Battery Endpoint	3.40	+ 20	0.71536237	-0.00063763

Table 7-117. LTE Band 12/17 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 13				
		Operating Band Lower Boundary (GHz)	0.777	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.77757531	-0.00057531
		- 20	0.77753442	-0.00053442
		- 10	0.77767516	-0.00067516
		0	0.77763548	-0.00063548
		+ 10	0.77767512	-0.00067512
		+ 20 (Ref)	0.77756431	-0.00056431
		+ 30	0.77748621	-0.00048621
		+ 40	0.77768742	-0.00068742
Battery Endpoint	3.40	+ 20	0.77769721	-0.00069721

Table 7-118. LTE Band 13 Lower Boundary Frequency Stability Data

LTE Band 13				
		Operating Band Upper Boundary (GHz)	0.787	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.78684535	-0.00015465
		- 20	0.78645318	-0.00054682
		- 10	0.78664814	-0.00035186
		0	0.78624579	-0.00075421
		+ 10	0.78637712	-0.00062288
		+ 20 (Ref)	0.78635713	-0.00064287
		+ 30	0.78668714	-0.00031286
		+ 40	0.78637752	-0.00062248
Battery Endpoint	3.40	+ 20	0.78637749	-0.00062251

Table 7-119. LTE Band 13 Upper Boundary Frequency Stability Data

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n66				
Operating Band Lower Boundary (GHz)			1.710	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.71070024	-0.00070024
		- 20	1.71070181	-0.00070181
		- 10	1.71069637	-0.00069637
		0	1.71070332	-0.00070332
		+ 10	1.71070058	-0.00070058
		+ 20 (Ref)	1.71070070	-0.00070070
		+ 30	1.71069836	-0.00069836
		+ 40	1.71069826	-0.00069826
		+ 50	1.71070412	-0.00070412
Battery Endpoint	3.40	+ 20	1.71070065	-0.00070065

Table 7-120. NR Band n66 Lower Boundary Frequency Stability Data

NR Band n66				
Operating Band Upper Boundary (GHz)			1.780	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.77921232	-0.00078768
		- 20	1.77919986	-0.00080014
		- 10	1.77919966	-0.00080034
		0	1.77920690	-0.00079310
		+ 10	1.77921726	-0.00078274
		+ 20 (Ref)	1.77920917	-0.00079083
		+ 30	1.77921257	-0.00078743
		+ 40	1.77920317	-0.00079683
		+ 50	1.77921036	-0.00078964
Battery Endpoint	3.40	+ 20	1.77921952	-0.00078048

Table 7-121. NR Band n66 Upper Boundary Frequency Stability Data

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n70				
Operating Band Lower Boundary (GHz)			1.695	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.69544651	-0.00044651
		- 20	1.69544637	-0.00044636
		- 10	1.69544313	-0.00044313
		0	1.69545117	-0.00045117
		+ 10	1.69544148	-0.00044148
		+ 20 (Ref)	1.69544157	-0.00044157
		+ 30	1.69544438	-0.00044438
		+ 40	1.69544371	-0.00044371
		+ 50	1.69543887	-0.00043887
Battery Endpoint	3.40	+ 20	1.69544236	-0.00044236

Table 7-122. NR Band n70 Lower Boundary Frequency Stability Data

NR Band n70				
Operating Band Upper Boundary (GHz)			1.710	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.70956318	-0.00043682
		- 20	1.70955711	-0.00044289
		- 10	1.70955915	-0.00044085
		0	1.70956368	-0.00043632
		+ 10	1.70955827	-0.00044173
		+ 20 (Ref)	1.70956272	-0.00043728
		+ 30	1.70955599	-0.00044401
		+ 40	1.70955372	-0.00044628
		+ 50	1.70954609	-0.00045392
Battery Endpoint	3.40	+ 20	1.70956316	-0.00043684

Table 7-123. NR Band n70 Upper Boundary Frequency Stability Data

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n71				
Operating Band Lower Boundary (GHz)			0.663	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.66357172	-0.00057172
		- 20	0.66357462	-0.00057462
		- 10	0.66358016	-0.00058016
		0	0.66357294	-0.00057294
		+ 10	0.66356821	-0.00056821
		+ 20 (Ref)	0.66356443	-0.00056443
		+ 30	0.66357148	-0.00057148
		+ 40	0.66356323	-0.00056323
		+ 50	0.66356110	-0.00056110
Battery Endpoint	3.40	+ 20	0.66356532	-0.00056532

Table 7-124. NR Band n71 Lower Boundary Frequency Stability Data

NR Band n71				
Operating Band Upper Boundary (GHz)			0.698	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69744006	-0.00055994
		- 20	0.69743849	-0.00056151
		- 10	0.69744187	-0.00055813
		0	0.69744260	-0.00055740
		+ 10	0.69743723	-0.00056277
		+ 20 (Ref)	0.69744145	-0.00055855
		+ 30	0.69743848	-0.00056152
		+ 40	0.69742917	-0.00057083
		+ 50	0.69742743	-0.00057257
Battery Endpoint	3.40	+ 20	0.69743532	-0.00056468

Table 7-125. NR Band n71 Upper Boundary Frequency Stability Data

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n12				
Operating Band Lower Boundary (GHz)			0.699	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69944014	-0.00044014
		- 20	0.69943136	-0.00043136
		- 10	0.69943818	-0.00043818
		0	0.69943053	-0.00043053
		+ 10	0.69943418	-0.00043418
		+ 20 (Ref)	0.69942680	-0.00042680
		+ 30	0.69944032	-0.00044032
		+ 40	0.69943378	-0.00043378
		+ 50	0.69943232	-0.00043232
Battery Endpoint	3.40	+ 20	0.69943356	-0.00043356

Table 7-126. NR Band n12 Lower Boundary Frequency Stability Data

NR Band n12				
Operating Band Upper Boundary (GHz)			0.716	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.71553420	-0.00046580
		- 20	0.71553431	-0.00046569
		- 10	0.71553849	-0.00046151
		0	0.71553661	-0.00046339
		+ 10	0.71553394	-0.00046606
		+ 20 (Ref)	0.71552815	-0.00047185
		+ 30	0.71553337	-0.00046663
		+ 40	0.71553980	-0.00046020
		+ 50	0.71553888	-0.00046112
Battery Endpoint	3.40	+ 20	0.71536541	-0.00063459

Table 7-127. NR Band n12 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

WCDMA AWS				
Operating Band Lower Boundary (GHz)			1.710	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.71072312	-0.00072312
		- 20	1.71038753	-0.00038753
		- 10	1.71057428	-0.00057428
		0	1.71054268	-0.00054268
		+ 10	1.71097552	-0.00097552
		+ 20 (Ref)	1.71056231	-0.00056231
		+ 30	1.71067453	-0.00067453
		+ 40	1.71083153	-0.00083153
		+ 50	1.71056428	-0.00056428
Battery Endpoint	3.40	+ 20	1.71035418	-0.00035418

Table 7-128. WCDMA AWS Lower Boundary Frequency Stability Data


WCDMA AWS				
Operating Band Upper Boundary (GHz)			1.755	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.75445124	-0.00054876
		- 20	1.75412788	-0.00087212
		- 10	1.75468745	-0.00031255
		0	1.75411678	-0.00088322
		+ 10	1.75445128	-0.00054872
		+ 20 (Ref)	1.75487535	-0.00012465
		+ 30	1.75437755	-0.00062245
		+ 40	1.75445675	-0.00054325
		+ 50	1.75461176	-0.00038824
Battery Endpoint	3.40	+ 20	1.75487545	-0.00012455

Table 7-129. WCDMA AWS Upper Boundary Frequency Stability Data

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2903** complies with all the requirements of Part 27 of the FCC rules.

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