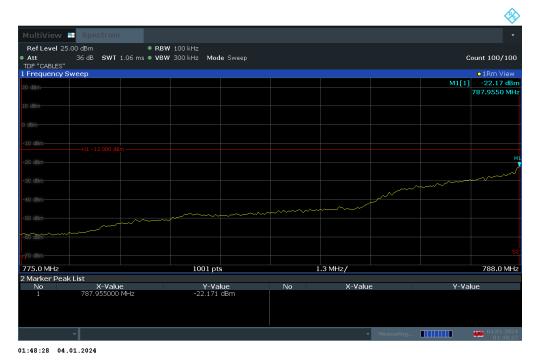


LTE Band 14



Plot 7-98. Lower Band Edge Plot (LTE Band 14 - 5MHz QPSK - RB Size 25)

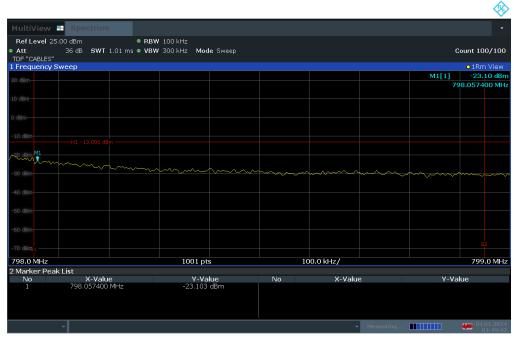


Plot 7-99. Lower Emission Mask Plot (LTE Band 14 - 5MHz QPSK - RB Size 25)

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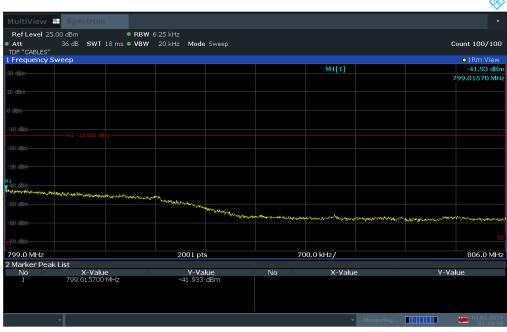
V2.2 09/07/2023





01:49:43 04.01.2024

Plot 7-100. Upper Band Edge Plot (LTE Band 14 - 5MHz QPSK - RB Size 25)



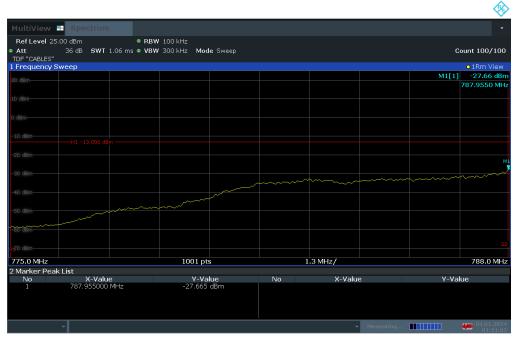
01:50:01 04.01.2024

Plot 7-101. Upper Emission Mask Plot (LTE Band 14 - 5MHz QPSK - RB Size 25)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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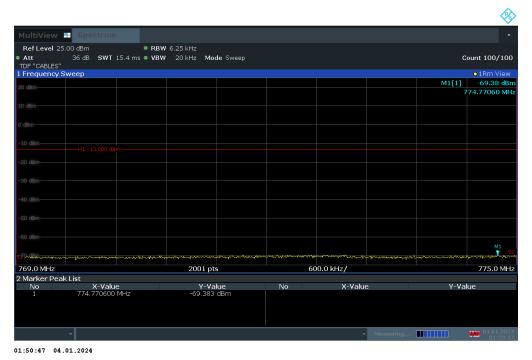
V2.2 09/07/2023





01:51:05 04.01.2024

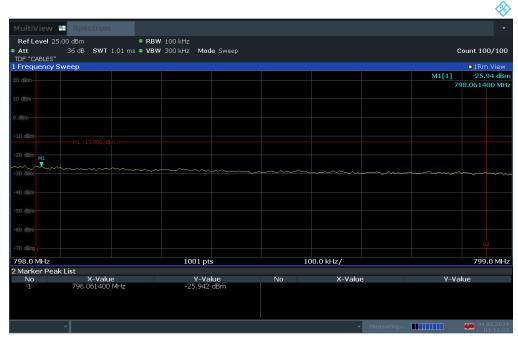
Plot 7-102. Lower Band Edge Plot (LTE Band 14 - 10MHz QPSK - RB Size 50)



Plot 7-103. Lower Emission Mask Plot (LTE Band 14 - 10MHz QPSK - RB Size 50)

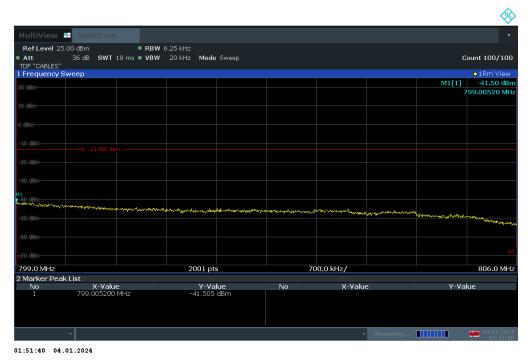
FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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01:51:22 04.01.2024

Plot 7-104. Upper Band Edge Plot (LTE Band 14 - 10MHz QPSK - RB Size 50)



Plot 7-105. Upper Emission Mask Plot (LTE Band 14 - 10MHz QPSK - RB Size 50)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-106. Lower Band Edge Plot (NR Band n14 - 5MHz DFT-s-OFDM π/2 BPSK - RB Size 25)



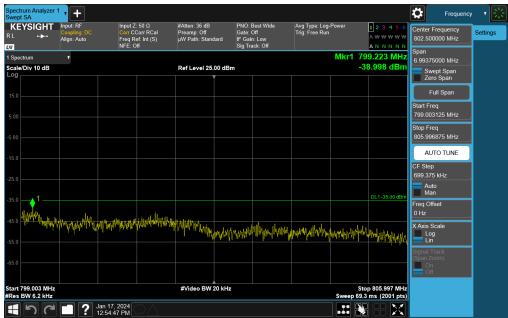
Plot 7-107. Lower Emission Mask Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 25)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-108. Upper Band Edge Plot (NR Band n14 - 5MHz DFT-s-OFDM π/2 BPSK - RB Size 25)



Plot 7-109. Upper Emission Mask Plot (NR Band n14 - 5MHz DFT-s-OFDM π/2 BPSK - RB Size 25)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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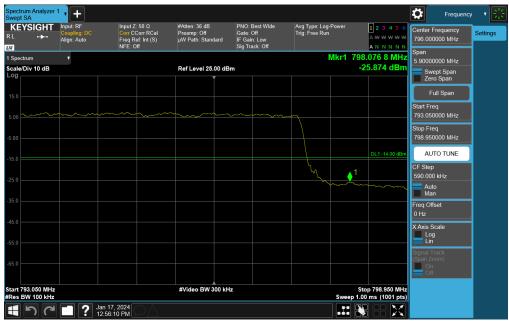
Plot 7-110. Lower Band Edge Plot (NR Band n14 - 10MHz QPSK - RB Size 50)



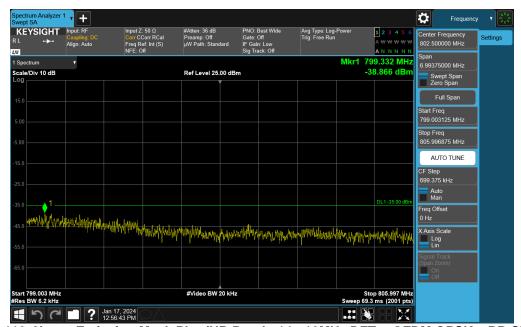
Plot 7-111. Lower Emission Mask Plot (NR Band n14 - 10MHz DFT-s-OFDM π/2 BPSK – RB Size 50)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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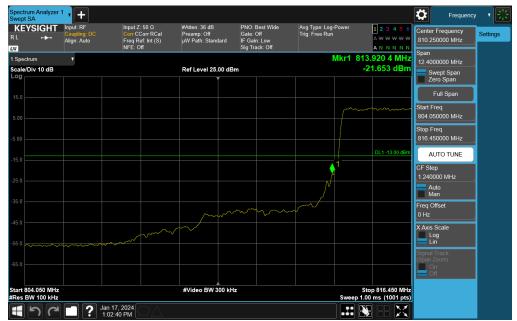
Plot 7-112. Upper Band Edge Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK - RB Size 50)



Plot 7-113. Upper Emission Mask Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK - RB Size 50)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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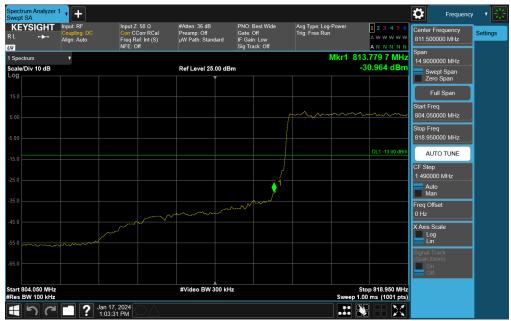
Plot 7-114. Lower Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM π/2 BPSK – Low Channel)



Plot 7-115. Upper Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - High Channel)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-116. Lower Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM π/2 BPSK - Mid Channel)



Plot 7-117. Upper Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM π/2 BPSK – Mid Channel)

FCC ID: BCGA2837	element	element part 90 measurement report	
Test Report S/N:	Test Dates:	EUT Type:	Page 77 of 105
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7.5 Conducted Power Output Data §2.1046 §90.635

Test Overview

Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

Test Procedures Used

KDB 971168 D01 v03r01

Test Setup

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

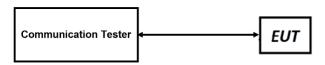


Figure 7-4. Conducted Power Measurement Setup

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.

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Antenna 3

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
	QPSK	26697	814.7	1/3	25.70	0.372	50.00	-24.30
	QFSK	26783	823.3	1/5	25.58	0.361	50.00	-24.42
1.4 MHz	16-QAM	26697	814.7	1/3	24.59	0.288	50.00	-25.41
	64-QAM	26783	823.3	1/0	23.68	0.233	50.00	-26.32
	256-QAM	26697	814.7	1/5	20.81	0.121	50.00	-29.19
	QPSK	26705	815.5	1 / 14	25.41	0.348	50.00	-24.59
	QFSK	26775	822.5	1 / 14	25.63	0.366	50.00	-24.37
3 MHz	16-QAM	26705	815.5	1 / 14	24.54	0.284	50.00	-25.46
	64-QAM	26775	822.5	1 / 14	23.65	0.232	50.00	-26.35
	256-QAM	26775	822.5	1/0	20.54	0.113	50.00	-29.46
ODSK	QPSK	26715	816.5	1 / 12	25.58	0.361	50.00	-24.42
	QFSK	26765	821.5	1/0	25.58	0.361	50.00	-24.42
5 MHz	16-QAM	26765	821.5	1 / 12	24.65	0.292	50.00	-25.35
	64-QAM	26765	821.5	1/0	23.71	0.235	50.00	-26.29
	256-QAM	26715	816.5	1 / 24	20.72	0.118	50.00	-29.28
	QPSK	26740	819.0	1 / 25	25.69	0.371	50.00	-24.31
10 MHz	16-QAM	26740	819.0	1 / 49	24.66	0.292	50.00	-25.34
TUIVINZ	64-QAM	26740	819.0	1 / 49	23.61	0.230	50.00	-26.39
	256-QAM	26740	819.0	1/0	20.80	0.120	50.00	-29.20

Table 7-2. Conducted Output Data (LTE Band 26)

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [W]	Conducted Power Limit [dBm]	Margin [dB]
	π/2 BPSK	816.5	1 / 23	25.69	0.371	50.00	-24.31
		819.0	1/1	25.36	0.344	50.00	-24.64
		821.5	1 / 12	25.67	0.369	50.00	-24.33
	QPSK	816.5	1 / 12	25.70	0.372	50.00	-24.30
5 MHz		819.0	1 / 23	25.67	0.369	50.00	-24.33
		821.5	1 / 1	25.62	0.365	50.00	-24.38
	16-QAM	819.0	1 / 12	24.61	0.289	50.00	-25.39
	64-QAM	819.0	1 / 23	23.71	0.235	50.00	-26.29
	256-QAM	819.0	1 / 23	20.81	0.121	50.00	-29.19
	π/2 BPSK	819.0	1 / 25	25.69	0.371	50.00	-24.31
	QPSK	819.0	1 / 25	25.59	0.362	50.00	-24.41
10 MHz	16-QAM	819.0	1 / 25	24.69	0.294	50.00	-25.31
	64-QAM	819.0	1 / 25	23.39	0.218	50.00	-26.61
	256-QAM	819.0	1 / 1	20.80	0.120	50.00	-29.20

Table 7-3. Conducted Output Data (NR Band n26)

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Antenna 1

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
	QPSK	26697	814.7	1 / 0	23.87	0.244	50.00	-26.13
	QI SK	26783	823.3	1/3	23.90	0.245	50.00	-26.10
1.4 MHz	16-QAM	26783	823.3	1 / 5	22.89	0.195	50.00	-27.11
	64-QAM	26783	823.3	1/5	21.78	0.151	50.00	-28.22
	256-QAM	26697	814.7	1/0	19.00	0.079	50.00	-31.00
	QPSK	26705	815.5	1 / 14	23.78	0.239	50.00	-26.22
QF3K	QI SI	26775	822.5	1 / 14	23.87	0.244	50.00	-26.13
3 MHz	16-QAM	26705	815.5	1 / 7	22.88	0.194	50.00	-27.12
	64-QAM	26705	815.5	1 / 0	21.81	0.152	50.00	-28.19
	256-QAM	26775	822.5	1/0	19.02	0.080	50.00	-30.98
	QPSK	26715	816.5	1/0	23.84	0.242	50.00	-26.16
	QFSK	26765	821.5	1 / 0	23.83	0.242	50.00	-26.17
5 MHz	16-QAM	26715	816.5	1 / 12	22.85	0.193	50.00	-27.15
	64-QAM	26765	821.5	1 / 24	21.77	0.150	50.00	-28.23
	256-QAM	26715	816.5	1 / 12	18.97	0.079	50.00	-31.03
	QPSK	26740	819.0	1 / 25	23.90	0.245	50.00	-26.10
10 MHz	16-QAM	26740	819.0	1 / 25	22.69	0.186	50.00	-27.31
10 MHZ	64-QAM	26740	819.0	1 / 49	21.90	0.155	50.00	-28.10
	256-QAM	26740	819.0	1 / 49	18.81	0.076	50.00	-31.19

Table 7-4. Conducted Output Data (LTE Band 26)

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [W]	Conducted Power Limit [dBm]	Margin [dB]			
		816.5	1 / 23	23.78	0.239	50.00	-26.22			
5 MHz	π/2 BPSK	819.0	1 / 23	23.84	0.242	50.00	-26.16			
		821.5	1 / 23	23.81	0.240	50.00	-26.19			
		816.5	1/1	23.80	0.240	50.00	-26.20			
	QPSK	819.0	1 / 1	23.90	0.245	50.00	-26.10			
		821.5	1 / 23	23.65	0.232	50.00	-26.35			
	16-QAM	821.5	1 / 23	22.72	0.187	50.00	-27.28			
	64-QAM	816.5	1/1	21.88	0.154	50.00	-28.12			
	256-QAM	819.0	1 / 12	18.99	0.079	50.00	-31.01			
	π/2 BPSK	819.0	1 / 50	23.70	0.234	50.00	-26.30			
	QPSK	819.0	1/1	23.90	0.245	50.00	-26.10			
10 MHz	16-QAM	819.0	1 / 50	22.88	0.194	50.00	-27.12			
	64-QAM	819.0	1 / 50	21.86	0.153	50.00	-28.14			
	256-QAM	819.0	1/1	18.99	0.079	50.00	-31.01			

Table 7-5. Conducted Output Data (NR Band n26)

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7.6 Radiated Power (ERP) §90.542(a)(7)

Test Overview

Effective Radiated Power (ERP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1 ANSI C63.26-2015 TIA-603-E-2016 – Section 2.2.17

Test Settings

The relevant equation for determining the ERP from the conducted RF output power measured is:

ERP = PMeas - LC + GT

Where:

ERP = Effective Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP)

Test Setup

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

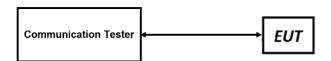


Figure 7-5. ERP Measurement Setup

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Test Notes

- 1) The worst case emissions are reported with the modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
- 4) The Ant. Gains (GT) are listed in dBi.

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Antenna 3

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [W]	ERP Limit [dBm]	Margin [dB]
		790.5	-1.80	1/0	25.70	21.75	0.150	34.77	-13.02
	QPSK	793.0	-1.80	1 / 12	25.65	21.70	0.148	34.77	-13.07
E MILL		795.5	-1.80	1/0	25.59	21.64	0.146	34.77	-13.13
5 MHz	16-QAM	790.5	-1.80	1/0	24.65	20.70	0.117	34.77	-14.07
	64-QAM	790.5	-1.80	1/0	23.70	19.75	0.094	34.77	-15.02
	256-QAM	795.5	-1.80	1 / 24	20.80	16.85	0.048	34.77	-17.92
	QPSK	793.0	-1.80	1 / 49	25.42	21.47	0.140	34.77	-13.30
10 MH-	16-QAM	793.0	-1.80	1 / 49	24.49	20.54	0.113	34.77	-14.23
10 MHz	64-QAM	793.0	-1.80	1 / 49	23.65	19.70	0.093	34.77	-15.07
	256-QAM	793.0	-1.80	1/0	20.71	16.76	0.047	34.77	-18.01

Table 7-6. Conducted Output Data (LTE Band 14)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [W]	ERP Limit [dBm]	Margin [dB]
		790.5	-1.80	1 / 23	25.45	21.50	0.141	34.77	-13.27
	π/2 BPSK	793.0	-1.80	1 / 12	25.69	21.74	0.149	34.77	-13.03
		795.5	-1.80	1 / 23	25.65	21.70	0.148	34.77	-13.07
	QPSK	790.5	-1.80	1 / 23	25.56	21.61	0.145	34.77	-13.16
5 MHz		793.0	-1.80	1 / 12	25.70	21.75	0.150	34.77	-13.02
		795.5	-1.80	1 / 23	25.55	21.60	0.145	34.77	-13.17
	16-QAM	793.0	-1.80	1 / 23	24.71	20.76	0.119	34.77	-14.01
	64-QAM	795.5	-1.80	1 / 23	23.63	19.68	0.093	34.77	-15.09
	256-QAM	795.5	-1.80	1 / 12	20.71	16.76	0.047	34.77	-18.01
	π/2 BPSK	793.0	-1.80	1 / 1	25.62	21.67	0.147	34.77	-13.10
	QPSK	793.0	-1.80	1 / 1	25.70	21.75	0.150	34.77	-13.02
10 MHz	16-QAM	793.0	-1.80	1 / 50	24.50	20.55	0.114	34.77	-14.22
	64-QAM	793.0	-1.80	1 / 50	23.66	19.71	0.094	34.77	-15.06
	256-QAM	793.0	-1.80	1/1	20.50	16.55	0.045	34.77	-18.22

Table 7-7. Conducted Output Data (NR Band n14)

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Antenna 1

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [W]	ERP Limit [dBm]	Margin [dB]
		790.5	-1.40	1 / 12	23.89	20.34	0.108	34.77	-14.43
	QPSK	793.0	-1.40	1 / 12	23.87	20.32	0.108	34.77	-14.45
5 MHz		795.5	-1.40	1 / 24	23.90	20.35	0.108	34.77	-14.42
2 MILIS	16-QAM	795.5	-1.40	1 / 12	22.93	19.38	0.087	34.77	-15.39
	64-QAM	790.5	-1.40	1/0	21.85	18.30	0.068	34.77	-16.47
	256-QAM	795.5	-1.40	1 / 24	19.03	15.48	0.035	34.77	-19.29
	QPSK	793.0	-1.40	1 / 25	23.84	20.29	0.107	34.77	-14.48
10 MHz	16-QAM	793.0	-1.40	1 / 25	22.89	19.34	0.086	34.77	-15.43
IU WINZ	64-QAM	793.0	-1.40	1/0	21.88	18.33	0.068	34.77	-16.44
	256-QAM	793.0	-1.40	1 / 25	18.93	15.38	0.035	34.77	-19.39

Table 7-8. Conducted Output Data (LTE Band 14)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [W]	ERP Limit [dBm]	Margin [dB]
		790.5	-1.40	1 / 23	23.79	20.24	0.106	34.77	-14.53
	π/2 BPSK	793.0	-1.40	1 / 23	23.77	20.22	0.105	34.77	-14.55
		795.5	-1.40	1 / 1	23.86	20.31	0.107	34.77	-14.46
		790.5	-1.40	1 / 1	23.79	20.24	0.106	34.77	-14.53
5 MHz	QPSK	793.0	-1.40	1 / 12	23.80	20.25	0.106	34.77	-14.52
		795.5	-1.40	1 / 23	23.90	20.35	0.108	34.77	-14.42
	16-QAM	795.5	-1.40	1 / 1	22.87	19.32	0.086	34.77	-15.45
	64-QAM	793.0	-1.40	1 / 23	21.92	18.37	0.069	34.77	-16.40
	256-QAM	790.5	-1.40	1 / 12	18.90	15.35	0.034	34.77	-19.42
	π/2 BPSK	793.0	-1.40	1 / 1	23.87	20.32	0.108	34.77	-14.45
	QPSK	793.0	-1.40	1 / 50	23.87	20.32	0.108	34.77	-14.45
10 MHz	16-QAM	793.0	-1.40	1 / 50	22.77	19.22	0.084	34.77	-15.55
	64-QAM	793.0	-1.40	1 / 25	21.75	18.20	0.066	34.77	-16.57
n 14 Port C	256-QAM	793.0	-1.40	1/1	18.94	15.39	0.035	34.77	-19.38

Table 7-9. Conducted Output Data (NR Band n14)

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7.7 Radiated Spurious Emissions §2.1053 §90.691(a) §90.543(e)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 - Section 5.8

ANSI C63.26-2015

TIA-603-E-2016 - Section 2.2.12

Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW \geq 3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points $\geq 2 \times \text{span} / \text{RBW}$
- 5. Detector = RMS
- 6. Trace mode = Average (Max Hold for pulsed emissions)
- 7. The trace was allowed to stabilize

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Test Setup

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

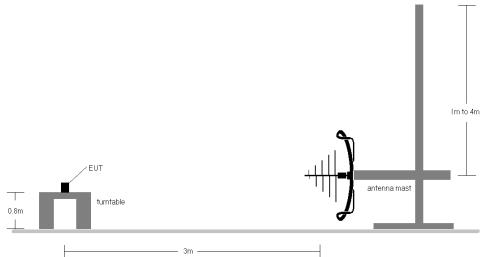


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

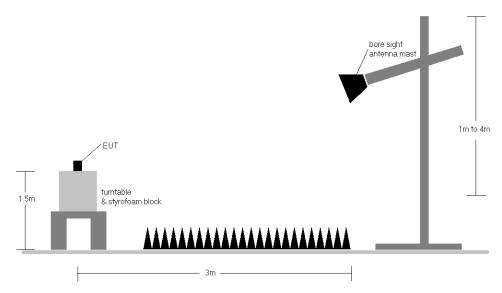


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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Test Notes

- 1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(dB\mu V/m) = Measured$ amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b. EIRP (dBm) = $E(dB\mu V/m) + 20logD 104.8$; where D is the measurement distance in meters.
- 2. The device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
- 3. This unit was tested with its standard battery.
- 4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 5. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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7.7.1 Antenna 3 – Radiated Spurious Emission Measurements

LTE Band 26

Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB Config (Size / 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]
1633.0	Н	-	-	-73.03	-5.49	28.48	-66.77	-13.00	-53.77
2449.5	Н	-	-	-74.68	-0.70	31.62	-63.63	-13.00	-50.63
3266.0	Н	-	-	-75.48	1.07	32.59	-62.67	-13.00	-49.67

Table 7-10. Antenna 3 Radiated Spurious Data (LTE Band 26 - Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB Config (Size / 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]		Margin [dB]
1638.0	Н	-	-	-72.89	-5.49	28.62	-66.64	-13.00	-53.64
2457.0	Н	-		-74.70	-0.70	31.60	-63.66	-13.00	-50.66
3276.0	Н	-	-	-75.69	1.07	32.38	-62.88	-13.00	-49.88

Table 7-11. Antenna 3 Radiated Spurious Data (LTE Band 26 - Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB Config (Size / 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]
1643.0	Н	-	-	-73.01	-5.49	28.50	-66.76	-13.00	-53.76
2464.5	Н	-	-	-74.65	-0.70	31.65	-63.61	-13.00	-50.61
3286.0	Н	-	-	-75.80	1.21	32.41	-62.85	-13.00	-49.85

Table 7-12. Antenna 3 Radiated Spurious Data (LTE Band 26 – High Channel)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 14

Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB Config (Size / 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]		Margin [dB]
1581.0	Н	-	-	-72.95	-5.46	28.59	-66.66	-40.00	-26.66
2371.5	Н	-	-	-74.26	-0.34	32.41	-62.85	-13.00	-49.85
3162.0	Н	-	-	-75.84	1.18	32.33	-62.92	-13.00	-49.92

Table 7-13. Antenna 3 Radiated Spurious Data (LTE Band 14 - Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB Config (Size / 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]		Margin [dB]
1586.0	Н	-	-	-72.91	-5.53	28.56	-66.70	-40.00	-26.70
2379.0	Н	-	-	-74.34	-0.31	32.35	-62.91	-13.00	-49.91
3172.0	Н	-	-	-75.82	1.18	32.36	-62.90	-13.00	-49.90

Table 7-14. Antenna 3 Radiated Spurious Data (LTE Band 14 – Mid Channel)

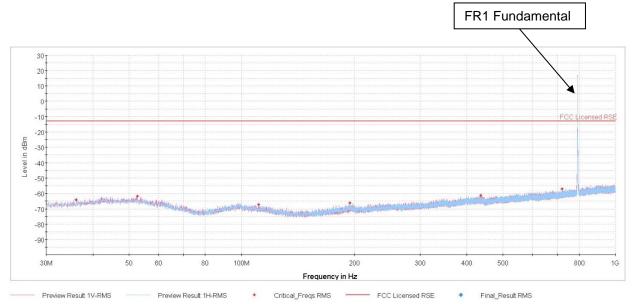
Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]		Margin [dB]
1591.0	Н	-	-	-72.96	-5.46	28.59	-66.67	-40.00	-26.67
2386.5	Н	-	-	-74.33	-0.31	32.36	-62.90	-13.00	-49.90
3182.0	Н	-	-	-75.69	1.16	32.48	-62.78	-13.00	-49.78

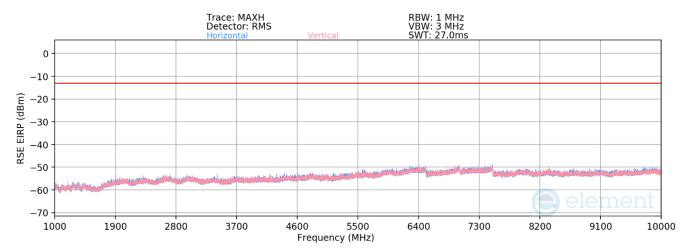
Table 7-15. Antenna 3 Radiated Spurious Data (LTE Band 14 – High Channel)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-118. Antenna 3 Radiated Spurious Plot Below 1GHz (NR Band n14)



Plot 7-119. Antenna 3 Radiated Spurious Plot Above 1GHz (NR Band n14)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
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]		Margin [dB]
1581.0	Н	-	-	-72.29	-5.46	29.25	-66.01	-40.00	-26.01
2371.5	Н	-	•	-73.75	-0.32	32.93	-62.33	-13.00	-49.33
3162.0	Н	-	-	-75.15	1.37	33.21	-62.04	-13.00	-49.04

Table 7-16. Antenna 3 Radiated Spurious Data (NR Band n14 - Low Channel)

Bandwidth (MHz):	10		
Frequency (MHz):	793.0		
Modulation Signal:	QPSK		
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]		Margin [dB]
1586.0	Н	-	-	-72.18	-5.53	29.29	-65.97	-40.00	-25.97
2379.0	Н	-	•	-73.87	-0.31	32.82	-62.44	-13.00	-49.44
3172.0	Н	-	-	-75.48	1.16	32.68	-62.57	-13.00	-49.57

Table 7-17. Antenna 3 Radiated Spurious Data (NR Band n14 – Mid Channel)

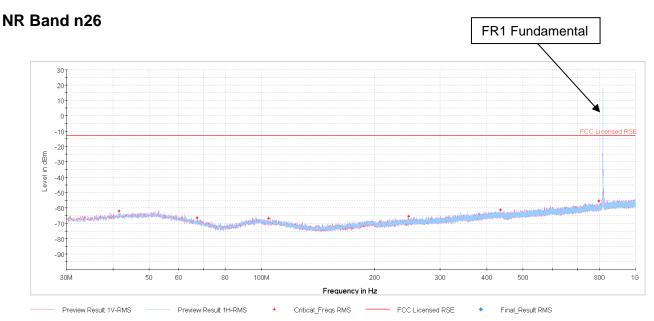
Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]		Margin [dB]
1591.0	Н	-	-	-72.40	-5.53	29.06	-66.19	-40.00	-26.19
2386.5	Н	-	-	-73.90	-0.39	32.70	-62.56	-13.00	-49.56
3182.0	Н	-	-	-75.39	0.93	32.54	-62.72	-13.00	-49.72

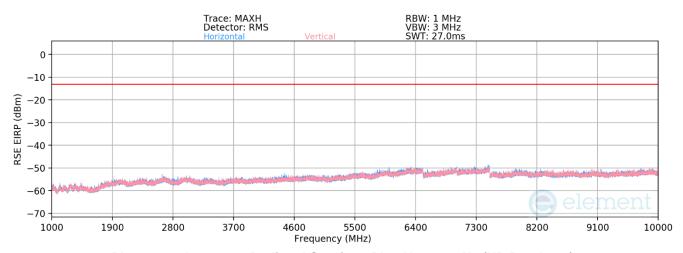
Table 7-18. Antenna 3 Radiated Spurious Data (NR Band n14 – High Channel)

	T _		
FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-120. Antenna 3 Radiated Spurious Plot Below 1GHz (NR Band n26)



Plot 7-121. Antenna 3 Radiated Spurious Plot Above 1GHz (NR Band n26)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
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]		Margin [dB]
1633.0	Н	-	-	-72.34	-5.49	29.17	-66.09	-13.00	-53.09
2449.5	Н	-	-	-74.27	-0.70	32.03	-63.23	-13.00	-50.23
3266.0	Н	-	-	-75.33	1.07	32.73	-62.52	-13.00	-49.52

Table 7-19. Antenna 3 Radiated Spurious Data (NR Band n26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
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]		Margin [dB]
1638.0	Н	305	123	-69.57	-5.49	31.94	-63.31	-13.00	-50.31
2457.0	Н	-		-73.93	-0.86	32.21	-63.04	-13.00	-50.04
3276.0	Н	-	-	-75.18	1.21	33.04	-62.22	-13.00	-49.22
4095.0	Н	-	-	-76.79	3.16	33.38	-61.88	-13.00	-48.88

Table 7-20. Antenna 3 Radiated Spurious Data (NR Band n26 - Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

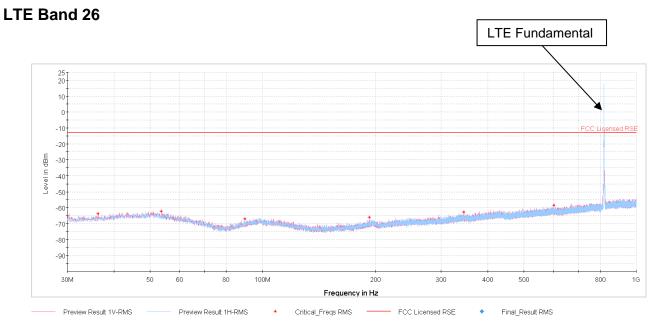
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]		Margin [dB]
1643.0	Н	305	120	-69.23	-5.49	32.28	-62.98	-13.00	-49.98
2464.5	Н	-	-	-74.03	-0.86	32.11	-63.14	-13.00	-50.14
3286.0	Н	-	-	-75.39	1.21	32.82	-62.43	-13.00	-49.43
4107.5	Н	-	-	-76.79	3.04	33.25	-62.01	-13.00	-49.01

Table 7-21. Antenna 3 Radiated Spurious Data (NR Band n26 – High Channel)

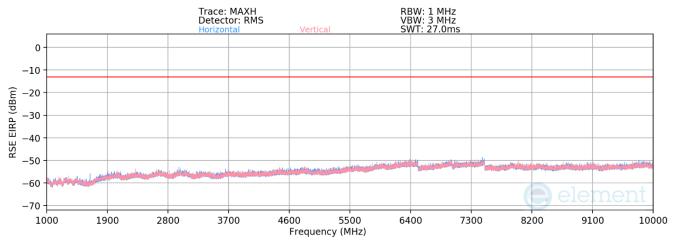
FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.2 Antenna 1 – Radiated Spurious Emission Measurements



Plot 7-122. Antenna 1 Radiated Spurious Plot Below 1GHz (LTE Band 26)



Plot 7-123. Antenna 1 Radiated Spurious Plot Above 1GHz (LTE Band 26)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB Config (Size / 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]
1633.0	Н	250	283	-69.48	-5.49	32.03	-63.22	-13.00	-50.22
2449.5	Н	-	-	-74.80	-0.70	31.50	-63.75	-13.00	-50.75
3266.0	Н	-	=	-75.76	1.07	32.30	-62.95	-13.00	-49.95
4082.5	Н	-	-	-77.20	3.14	32.94	-62.32	-13.00	-49.32

Table 7-22. Antenna 1 Radiated Spurious Data (LTE Band 26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB Config (Size / 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]		Margin [dB]
1638.0	Н	263	282	-69.18	-5.49	32.34	-62.92	-13.00	-49.92
2457.0	Н	-	-	-74.41	-0.86	31.73	-63.52	-13.00	-50.52
3276.0	Н	-	-	-75.74	1.21	32.47	-62.78	-13.00	-49.78
4095.0	Н	-	-	-77.24	3.16	32.93	-62.33	-13.00	-49.33

Table 7-23. Antenna 1 Radiated Spurious Data (LTE Band 26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1/12

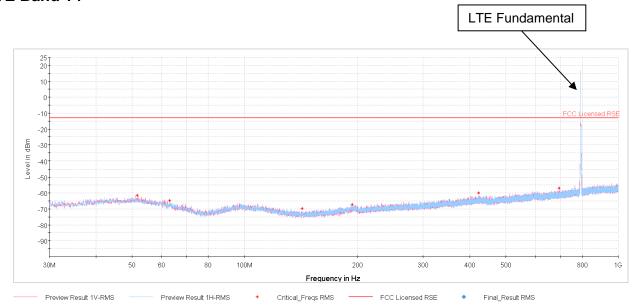
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	Н	264	291	-67.99	-5.49	33.53	-61.73	-13.00	-48.73
2464.5	Н	-	-	-74.56	-0.63	31.80	-63.45	-13.00	-50.45
3286.0	Н	-	=	-75.33	1.21	32.88	-62.38	-13.00	-49.38
4107.5	Н	-	-	-77.17	3.04	32.88	-62.38	-13.00	-49.38

Table 7-24. Antenna 1 Radiated Spurious Data (LTE Band 26 – High Channel)

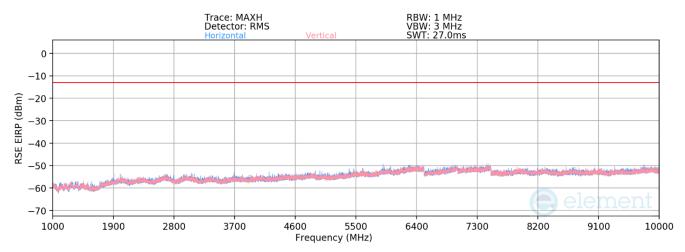
FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 14



Plot 7-124. Antenna 1 Radiated Spurious Plot Below 1GHz (LTE Band 14)



Plot 7-125. Antenna 1 Radiated Spurious Plot Above 1GHz (LTE Band 14)

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB Config (Size / 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]		Margin [dB]
1581.0	Н	174	166	-69.93	-5.53	31.53	-63.72	-40.00	-23.72
2371.5	Н	-	-	-74.44	-0.31	32.25	-63.01	-13.00	-50.01
3162.0	Н	-	-	-75.93	1.18	32.25	-63.01	-13.00	-50.01
3952.5	Н	-	-	-76.52	2.28	32.75	-62.50	-13.00	-49.50

Table 7-25. Antenna 1 Radiated Spurious Data (LTE Band 14 - Low Channel)

Bandwidth (MHz):	10		
Frequency (MHz):	793.0		
Modulation Signal:	QPSK		
RB Config (Size / 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]		Margin [dB]
1586.0	Н	-	-	-72.72	-5.53	28.75	-66.51	-40.00	-26.51
2379.0	Н	-	-	-74.24	-0.31	32.45	-62.81	-13.00	-49.81
3172.0	Н	-		-75.80	1.01	32.20	-63.05	-13.00	-50.05

Table 7-26. Antenna 1 Radiated Spurious Data (LTE Band 14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB Config (Size / 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]		Margin [dB]
1591.0	Н	229	179	-70.59	-5.53	30.88	-64.38	-40.00	-24.38
2386.5	Н	-	-	-74.40	-0.31	32.29	-62.97	-13.00	-49.97
3182.0	Н	-	-	-75.87	1.01	32.14	-63.12	-13.00	-50.12
3977.5	Н	-	-	-76.74	2.57	32.83	-62.43	-13.00	-49.43

Table 7-27. Antenna 1 Radiated Spurious Data (LTE Band 14 – High Channel)

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Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		EIRP Spurious Emission Level [dBm]		Margin [dB]
1581.0	Н	-	-	-72.56	-5.46	28.98	-66.28	-40.00	-26.28
2371.5	Н	-	-	-73.83	-0.32	32.85	-62.41	-13.00	-49.41
3162.0	Н	-	-	-75.36	1.37	33.01	-62.25	-13.00	-49.25

Table 7-28. Antenna 1 Radiated Spurious Data (NR Band n14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
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]		Margin [dB]
1586.0	Н	-	-	-72.52	-5.53	28.95	-66.31	-40.00	-26.31
2379.0	Н	-	-	-73.78	-0.31	32.92	-62.34	-13.00	-49.34
3172.0	Н	-	-	-75.12	1.16	33.05	-62.21	-13.00	-49.21

Table 7-29. Antenna 1 Radiated Spurious Data (NR Band n14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
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]		Margin [dB]
1591.0	Н	-	-	-72.39	-5.53	29.08	-66.18	-40.00	-26.18
2386.5	Н	-	•	-74.00	-0.39	32.60	-62.66	-13.00	-49.66
3182.0	Н	-	ı	-75.49	0.93	32.43	-62.82	-13.00	-49.82

Table 7-30. Antenna 1 Radiated Spurious Data (NR Band n14 - High Channel)

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Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
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]		Margin [dB]
1633.0	Н	-	-	-72.45	-5.49	29.06	-66.20	-13.00	-53.20
2449.5	Н	-	-	-74.16	-0.70	32.14	-63.12	-13.00	-50.12
3266.0	Н	-	-	-75.37	1.07	32.69	-62.57	-13.00	-49.57

Table 7-31. Antenna 1 Radiated Spurious Data (NR Band n26 - Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		EIRP Spurious Emission Level [dBm]		Margin [dB]
1638.0	Н	-	-	-72.69	-5.07	29.24	-66.01	-13.00	-53.01
2457.0	Н	-	•	-73.97	-0.86	32.17	-63.09	-13.00	-50.09
3276.0	Н	-	-	-75.45	1.21	32.76	-62.49	-13.00	-49.49

Table 7-32. Antenna 1 Radiated Spurious Data (NR Band n26 - Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
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]		Margin [dB]
1643.0	Н	-	-	-72.41	-5.49	29.10	-66.16	-13.00	-53.16
2464.5	Н	-	•	-74.18	-0.72	32.11	-63.15	-13.00	-50.15
3286.0	Н	-	-	-75.35	1.21	32.87	-62.39	-13.00	-49.39

Table 7-33. Antenna 1 Radiated Spurious Data (NR Band n26 - High Channel)

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7.8 Frequency Stability / Temperature Variation §2.1055 §90.213

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 Band 26, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Band 14 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

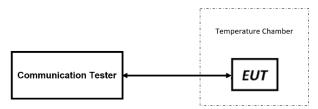


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 26 Operating Frequency (GHz): 0.819 Ref. Voltage (VDC): 3.80 Deviation Limit: ± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
		-30	0.819000044	0.00000015	0.000001832
		-20	0.819000047	0.00000018	0.000002198
	-10	0.819000066	0.00000037	0.000004518	
	100 % 3.80	0	0.819000004	-0.000000025	-0.000003053
100 %		+ 10	0.819000017	-0.00000012	-0.000001465
	+ 20 (Ref)	0.819000029	0.00000000	0.000000000	
	+ 30	0.819000051	0.000000022	0.000002686	
		+ 40	0.818999994	-0.00000035	-0.000004274
		+ 50	0.819000057	0.00000028	0.000003419
Battery Endpoint	3.40	+ 20	0.819000062	0.00000033	0.000004029

Table 7-34. LTE Band 26 Frequency Stability Data

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LTE Band 14

Operating Band Lower Boundary (GHz)	0.788
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
		-30	0.788377371	-0.000377371
100 % 3.80	-20	0.788378662	-0.000378662	
	-10	0.788378451	-0.000378451	
	0	0.788378831	-0.000378831	
	3.80	+ 10	0.788377521	-0.000377521
	+ 20 (Ref)	0.788377339	-0.000377339	
	+ 30	0.788377257	-0.000377257	
	+ 40	0.788378039	-0.000378039	
		+ 50	0.788378267	-0.000378267
Battery Endpoint	3.40	+ 20	0.788378355	-0.000378355

Table 7-35. LTE Band 14 Lower Boundary Frequency Stability Data

LTE Band 14

Operating Band Upper Boundary (GHz)	0.798
Ref. Voltage (VDC):	3.80

Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
	-30	0.797677291	-0.000322709
	-20	0.797678325	-0.000321675
	-10	0.797678552	-0.000321448
	0	0.797678792	-0.000321208
3.80	+ 10	0.797678621	-0.000321379
	+ 20 (Ref)	0.797677352	-0.000322648
	+ 30	0.797678425	-0.000321575
	+ 40	0.797678762	-0.000321238
	+ 50	0.797677081	-0.000322919
3.40	+ 20	0.797678036	-0.000321964
	3.80	-30 -20 -10 0 3.80 + 10 + 20 (Ref) + 30 + 40 + 50	3.80 -30 0.797677291 -20 0.797678325 -10 0.797678552 0 0.797678792 3.80 + 10 0.797678621 + 20 (Ref) 0.797677352 + 30 0.797678425 + 40 0.797678762 + 50 0.797677081

Table 7-36. LTE Band 14 Upper Boundary Frequency Stability Data

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Operating Band Lower Boundary (GHz)	0.788
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
		-30	0.788475746	-0.000475746
		-20	0.788477635	-0.000477635
		-10	0.788478415	-0.000478415
100 % 3.80		0	0.788475325	-0.000475325
	3.80	+ 10	0.788476691	-0.000476691
		+ 20 (Ref)	0.788476756	-0.000476756
		+ 30	0.788476098	-0.000476098
		+ 40	0.788476245	-0.000476245
		+ 50	0.788476321	-0.000476321
Battery Endpoint	3.40	+ 20	0.788476818	-0.000476818

Table 7-37. NR Band n14 Lower Boundary Frequency Stability Data

Operating Band Upper Boundary (GHz)	0.798
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)		
		-30	0.797893431	-0.000106569		
		-20	0.797891626	-0.000108374		
		-10	0.797891852	-0.000108148		
100 % 3.80		0	0.797892091	-0.000107909		
	3.80	+ 10	0.797893033	-0.000106967		
		+ 20 (Ref)	0.797893056	-0.000106944		
		+ 30	0.797891152	-0.000108848		
		+ 40	0.797893736	-0.000106264		
		+ 50	0.797893147	-0.000106853		
Battery Endpoint	3.40	+ 20	0.797892123	-0.000107877		

Table 7-38. NR Band n14 Upper Boundary Frequency Stability Data

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Operating Frequency (GHz):	0.819
Ref. Voltage (VDC):	3.80
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
		-30	0.819000048	0.00000019	0.000002320
		-20	0.819000014	-0.00000015	-0.000001832
		-10	0.819000000	-0.000000029	-0.000003541
100 % 3.80		0	0.819000044	0.00000015	0.000001832
	3.80	+ 10	0.819000046	0.00000017	0.000002076
		+ 20 (Ref)	0.819000029	0.000000000	0.000000000
		+ 30	0.819000003	-0.000000026	-0.000003175
		+ 40	0.819000057	0.000000028	0.000003419
		+ 50	0.819000059	0.00000030	0.000003663
Battery Endpoint	3.40	+ 20	0.819000044	0.00000015	0.000001832

Table 7-39. NR Band n26 Frequency Stability Data

FCC ID: BCGA2837	element	PART 90 MEASUREMENT REPORT	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: BCGA2837 complies with all the requirements of Part 90 of the FCC rules.

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