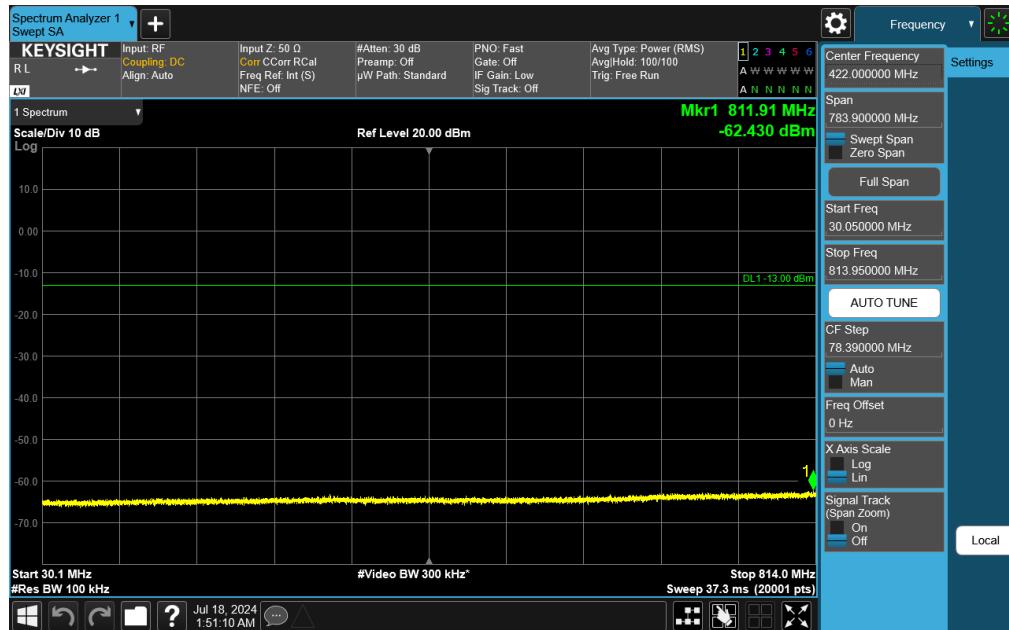
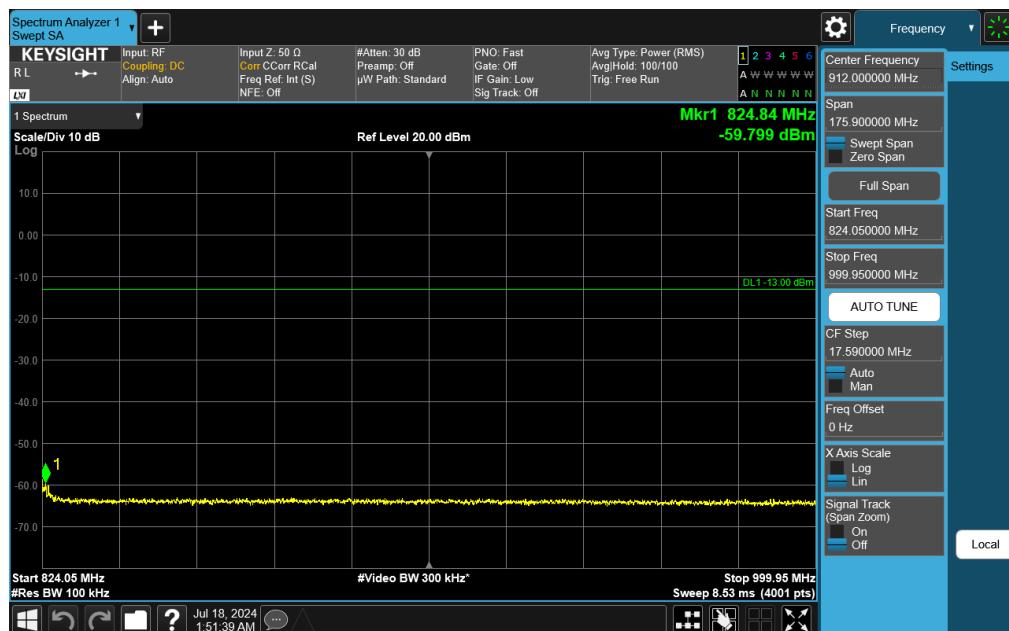


FCC ID: BCGA3269	<b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 56 of 107

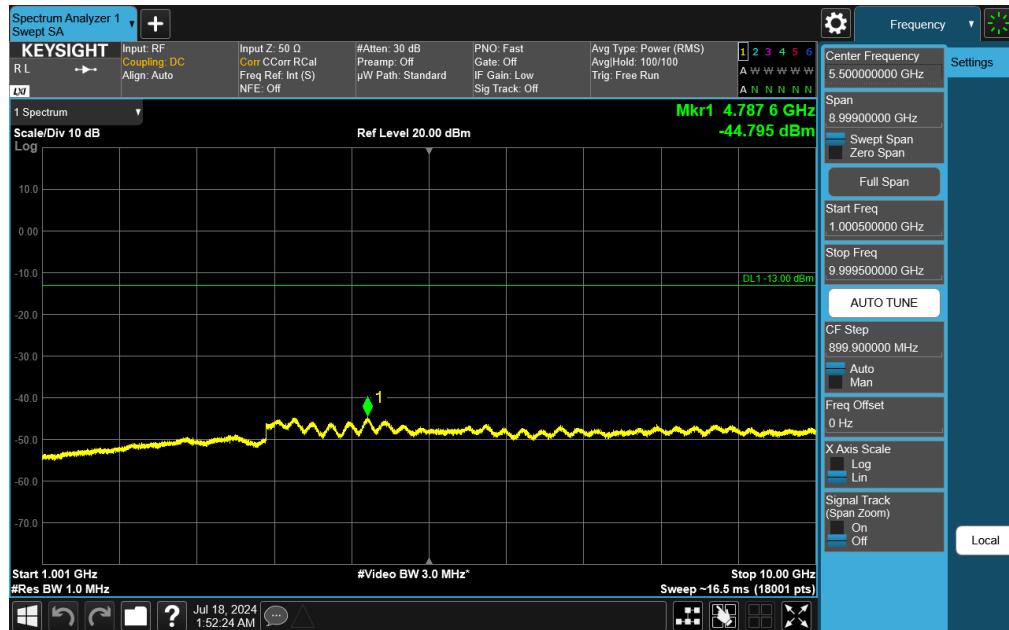


**Plot 7-78. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)**



**Plot 7-79. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)**

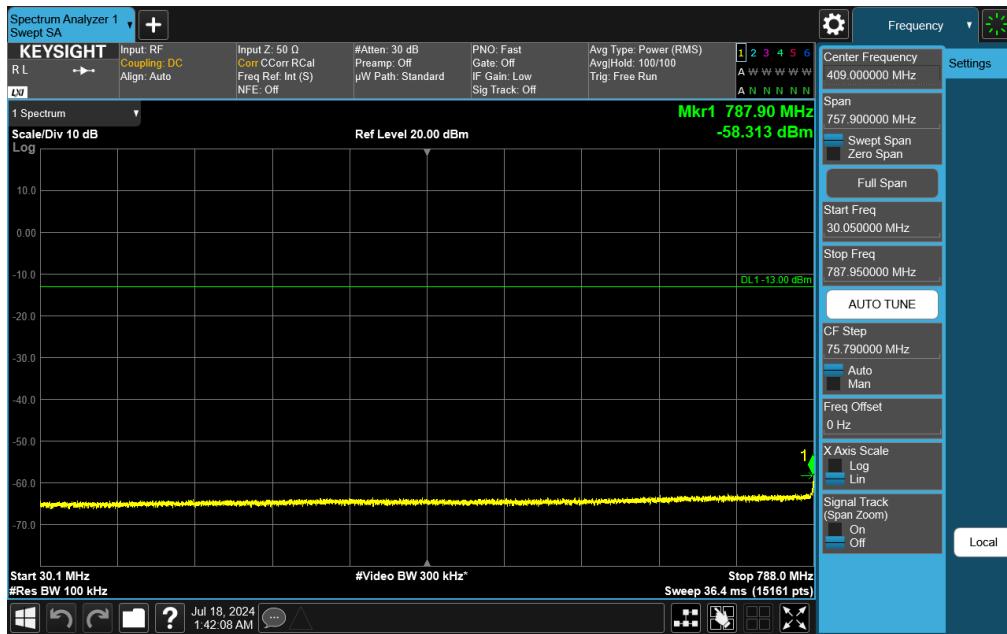
FCC ID: BCGA3269	 <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 57 of 107



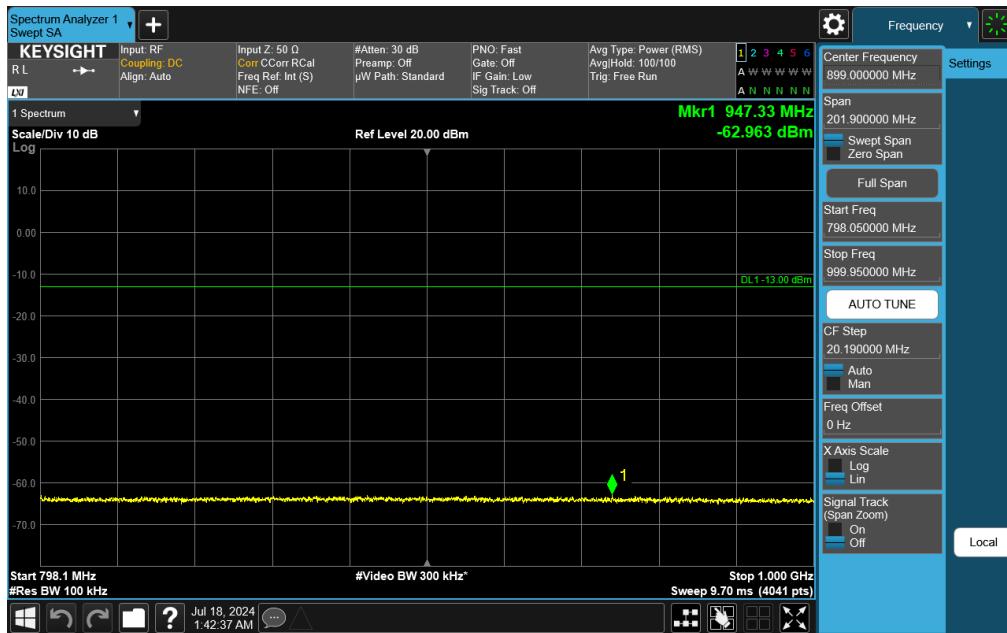
**Plot 7-80. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 58 of 107

## NR Band 14

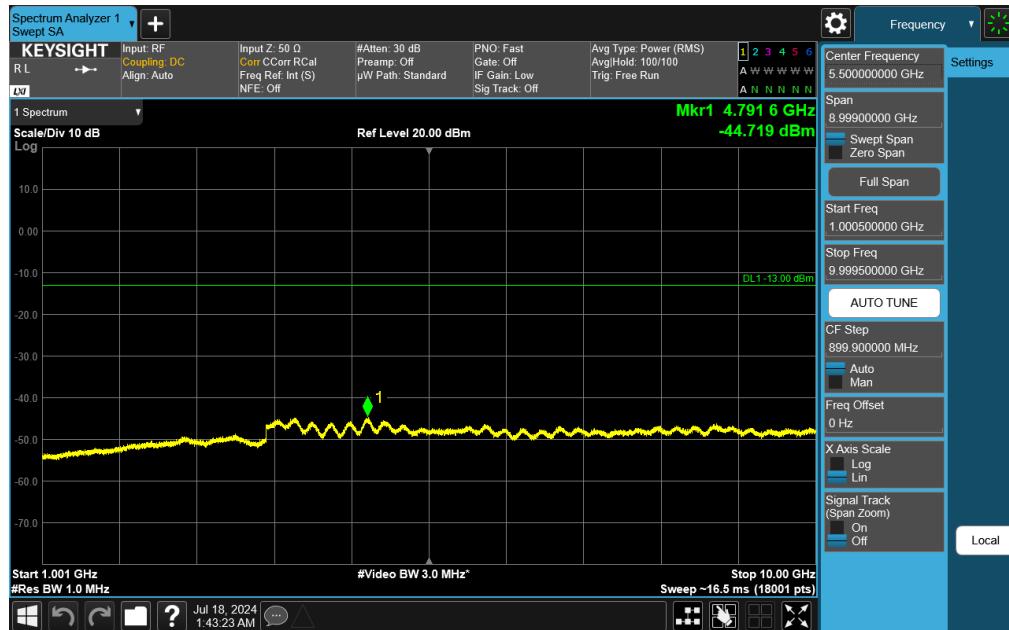


**Plot 7-81. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)**

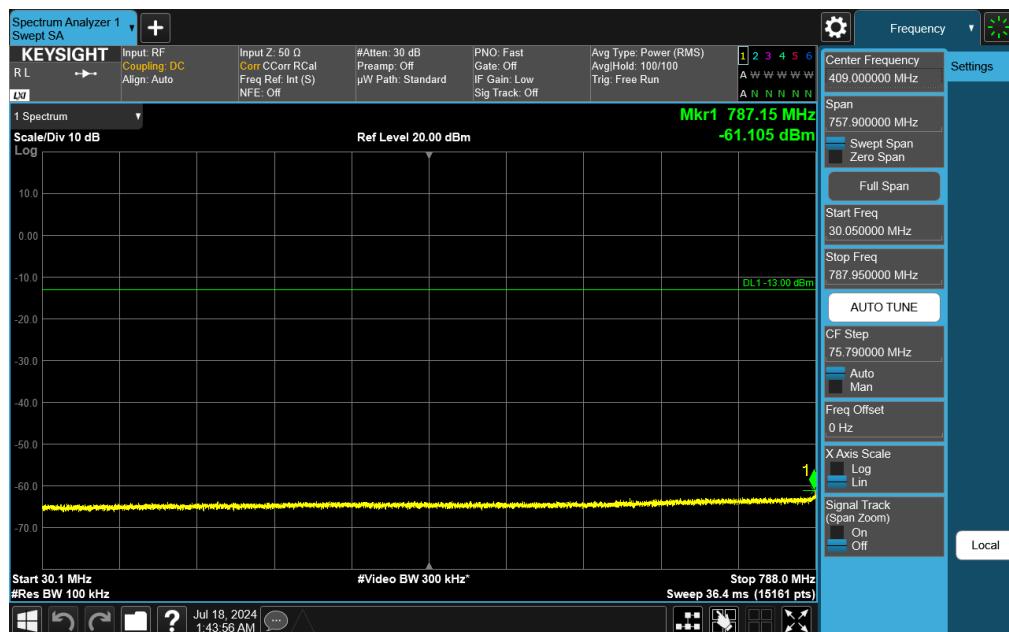


**Plot 7-82. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 59 of 107

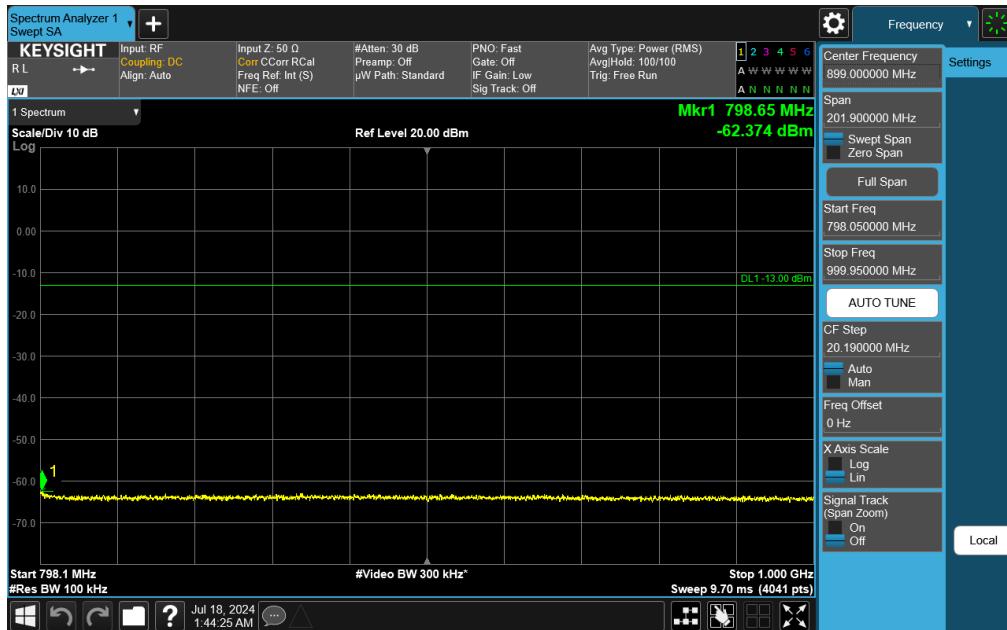


**Plot 7-83. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)**

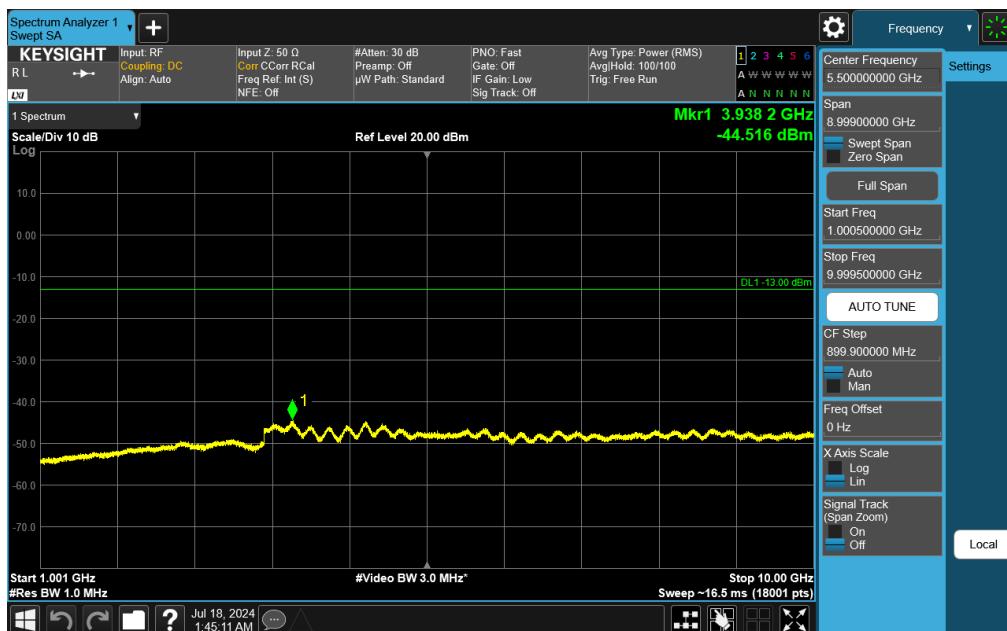


**Plot 7-84. Conducted Spurious Plot (NR Band 14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)**

FCC ID: BCGA3269	<b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 60 of 107

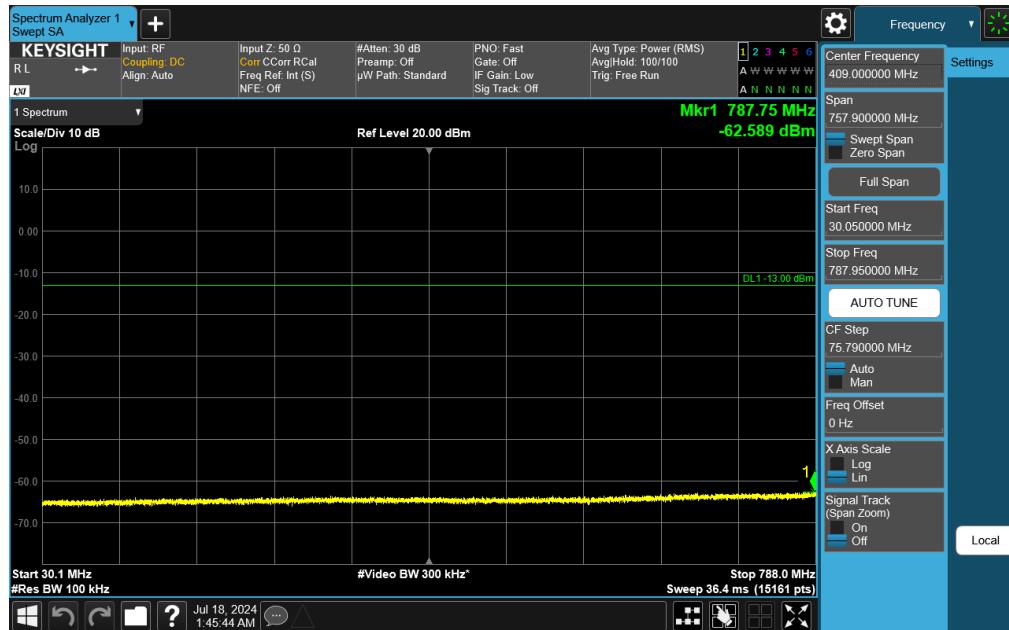


**Plot 7-85. Conducted Spurious Plot (NR Band 14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)**

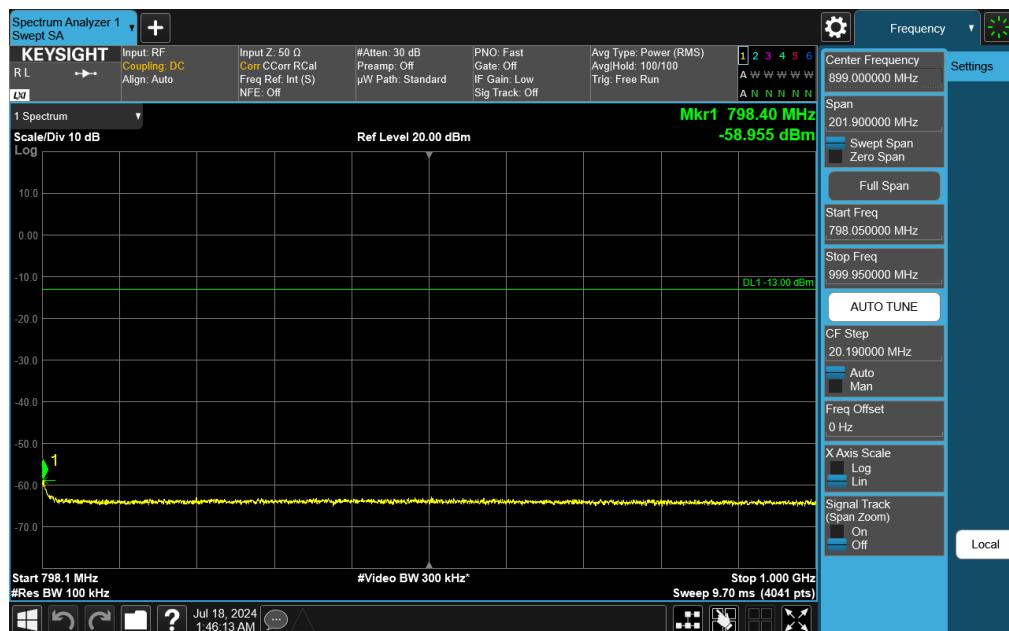


**Plot 7-86. Conducted Spurious Plot (NR Band 14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 61 of 107

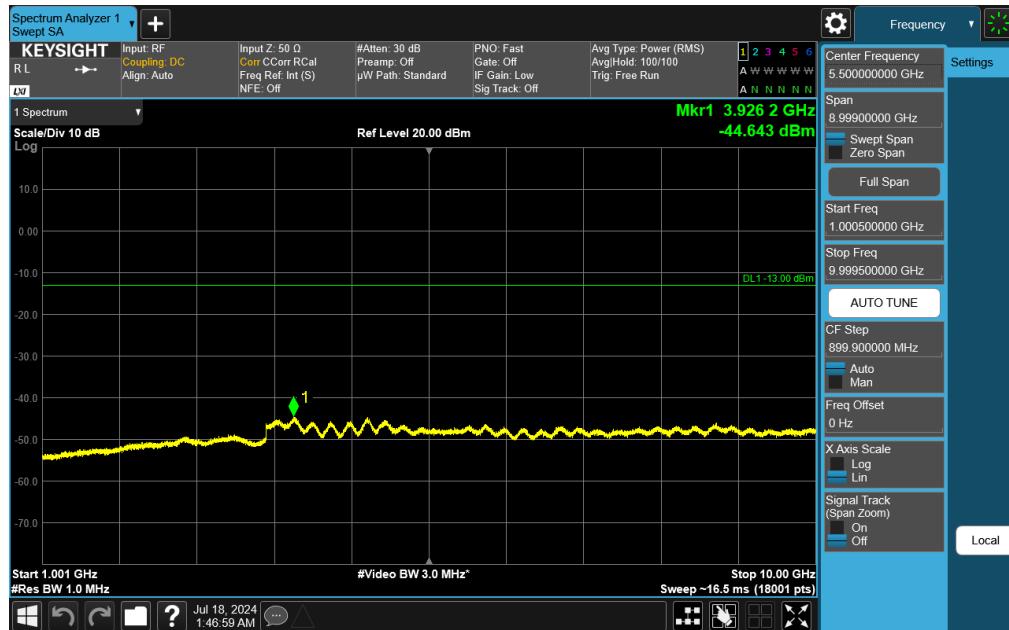


**Plot 7-87. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)**



**Plot 7-88. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 62 of 107



**Plot 7-89. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 63 of 107

## 7.4 Band Edge Emissions at Antenna Terminal

§2.1051 §90.691(a) §90.543(e)

### Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data were reported.

**For LTE B26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is  $43 + 10\log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is  $50 + 10\log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.**

### Test Procedure Used

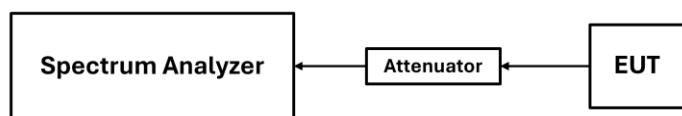
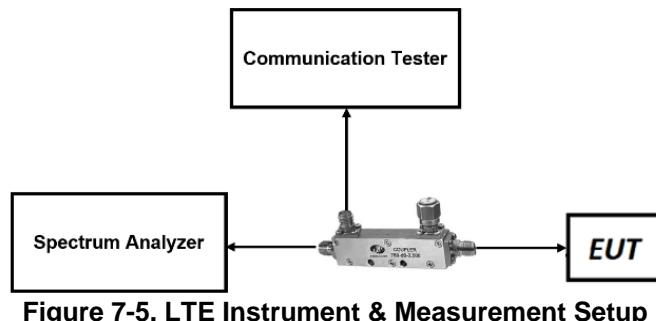
KDB 971168 D01 v03r01 – Section 6.0

### Test Settings

1. Span was set large enough so as to capture all out of band emissions near the band edge
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = RMS
5. Trace mode = trace average
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### Test Setup

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



**Figure 7-6. FR1 Instrument & Measurement Setup**

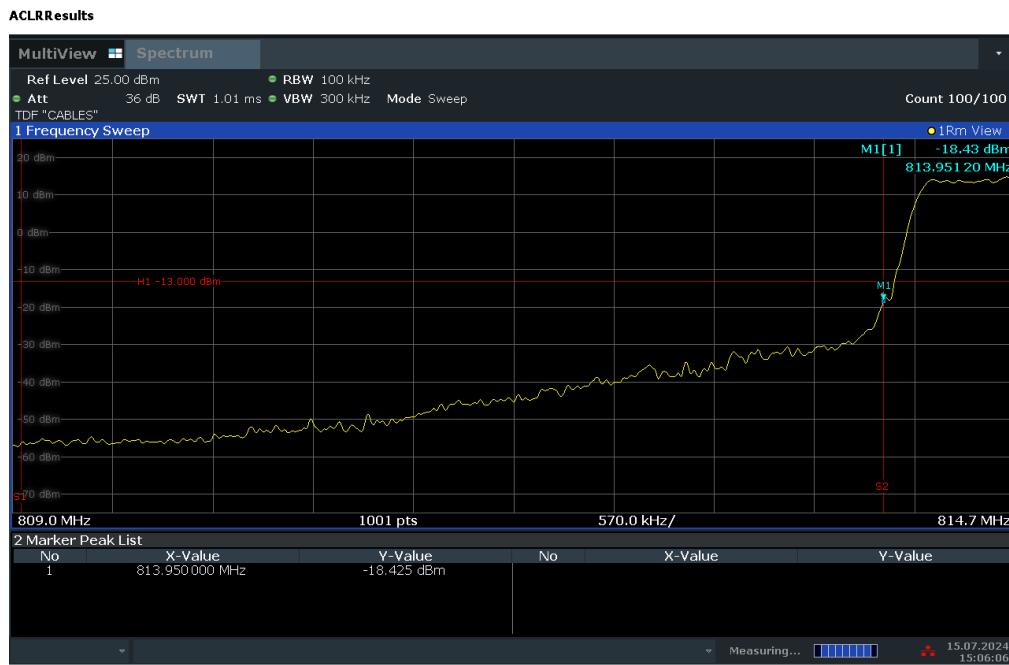
FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 64 of 107

**Test Notes**

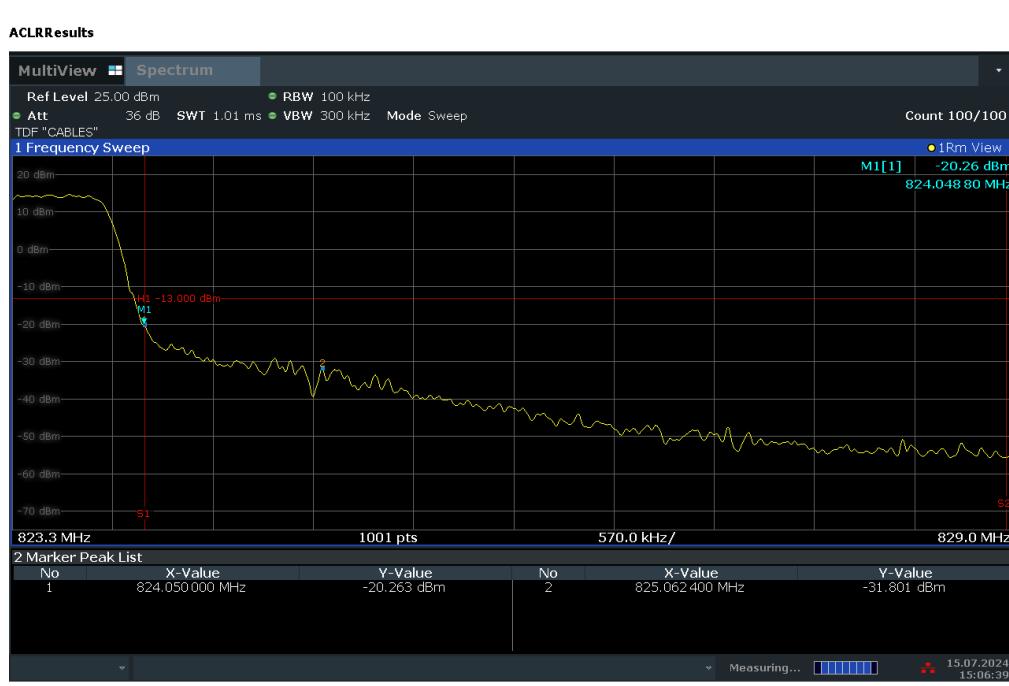
1. Per Part 90, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center.
2. For LTE Band 14 and NR Band n14 operation under Part 90.543, the power of any emission must be reduced below the mean output power (P) by at least  $43 + 10\log(P)$  dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.
3. Additionally, for LTE Band 14 and NR Band n14 operation, on all frequencies between 769-775 MHz and 799-805 MHz, the power of any emission shall be attenuated by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 65 of 107

## LTE Band 26

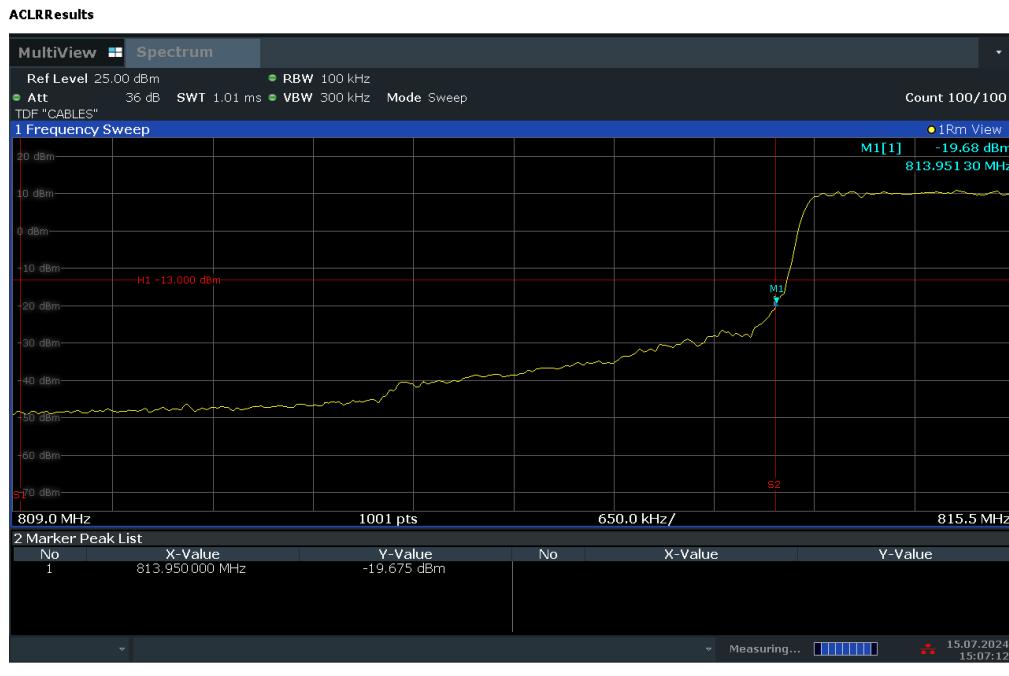


**Plot 7-90. Channel Edge Plot (LTE Band 26 – 1.4MHz QPSK – Low Channel)**

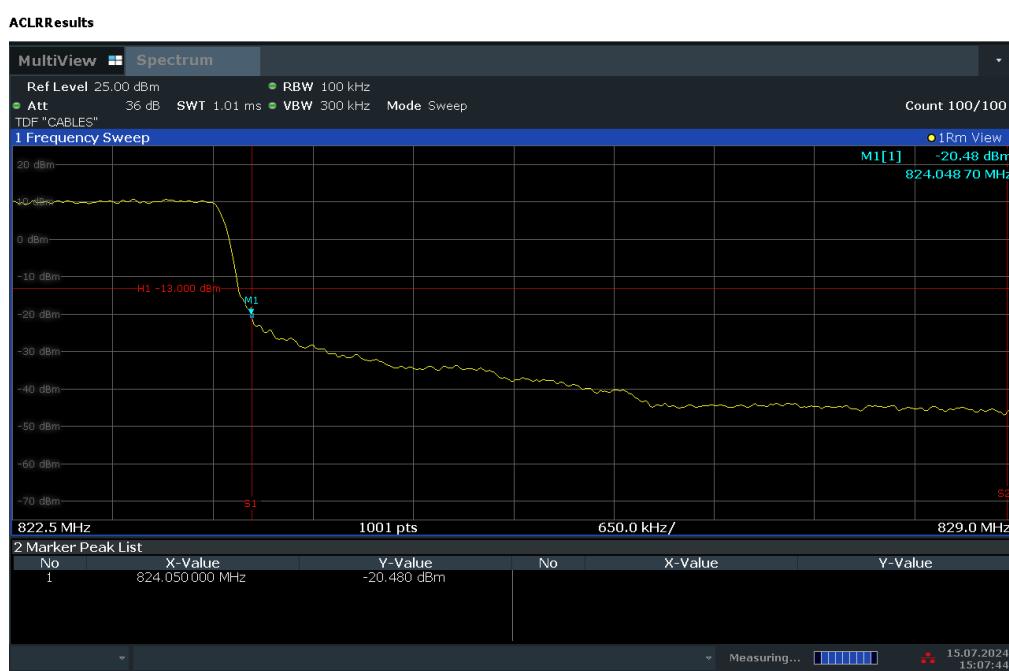


**Plot 7-91. Channel Edge Plot (LTE Band 26 – 1.4MHz QPSK – High Channel)**

FCC ID: BCGA3269	 <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 66 of 107

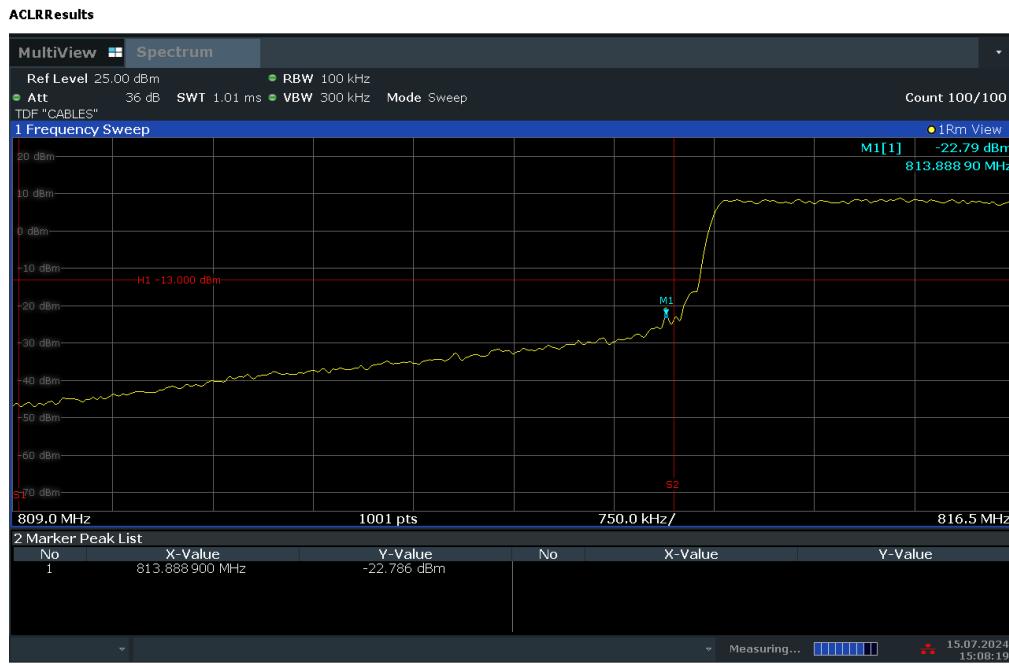


**Plot 7-92. Channel Edge Plot (LTE Band 26 - 3MHz QPSK – Low Channel)**

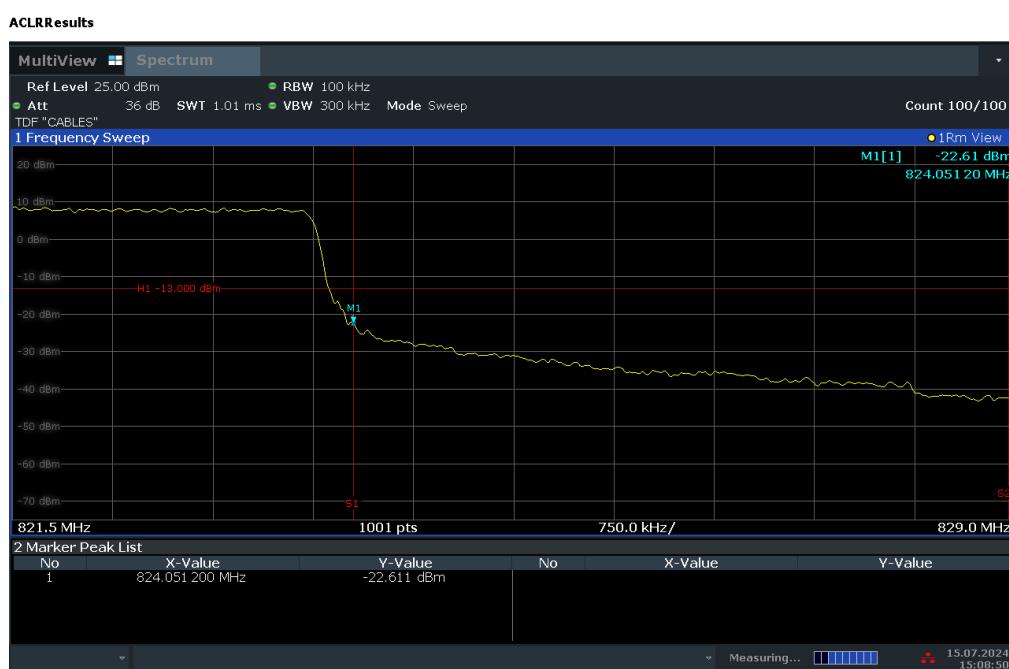


**Plot 7-93. Channel Edge Plot (LTE Band 26 - 3MHz QPSK – High Channel)**

FCC ID: BCGA3269	 <b>element</b> <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 67 of 107

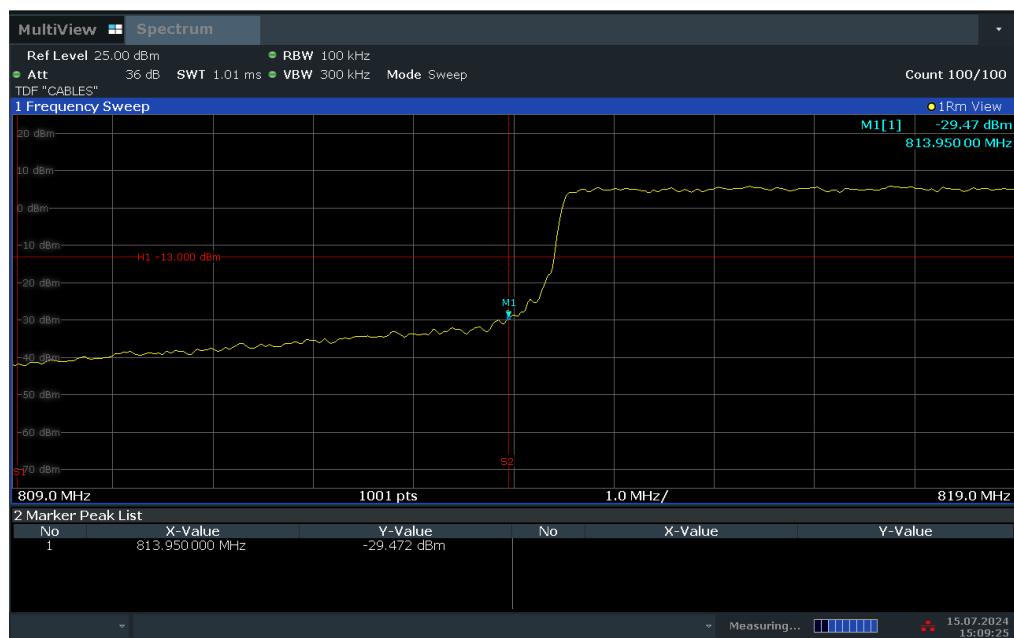
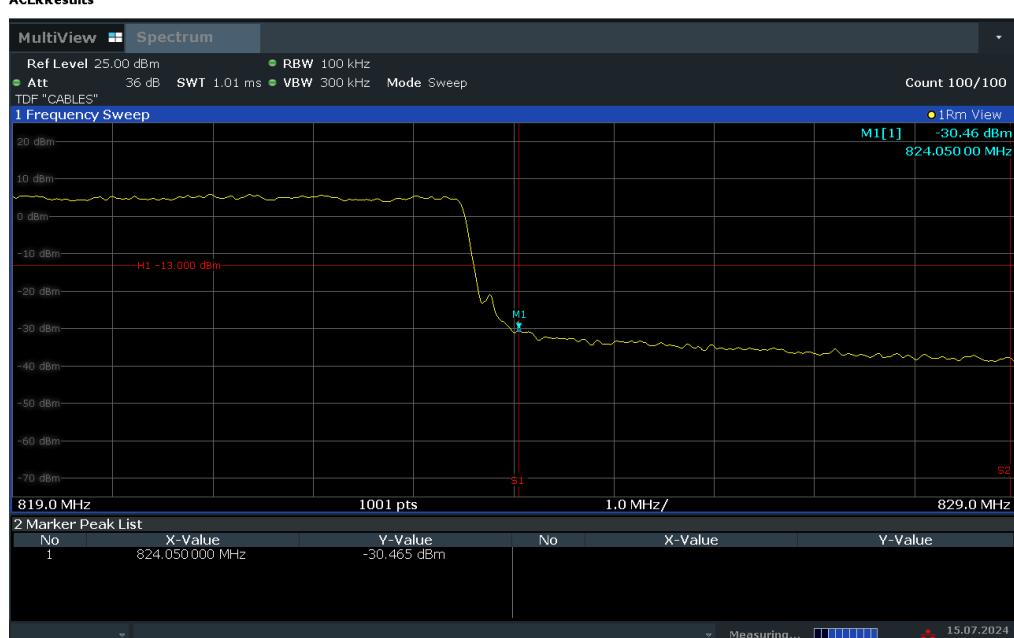


**Plot 7-94. Channel Edge Plot (LTE Band 26 - 5MHz QPSK – Low Channel)**



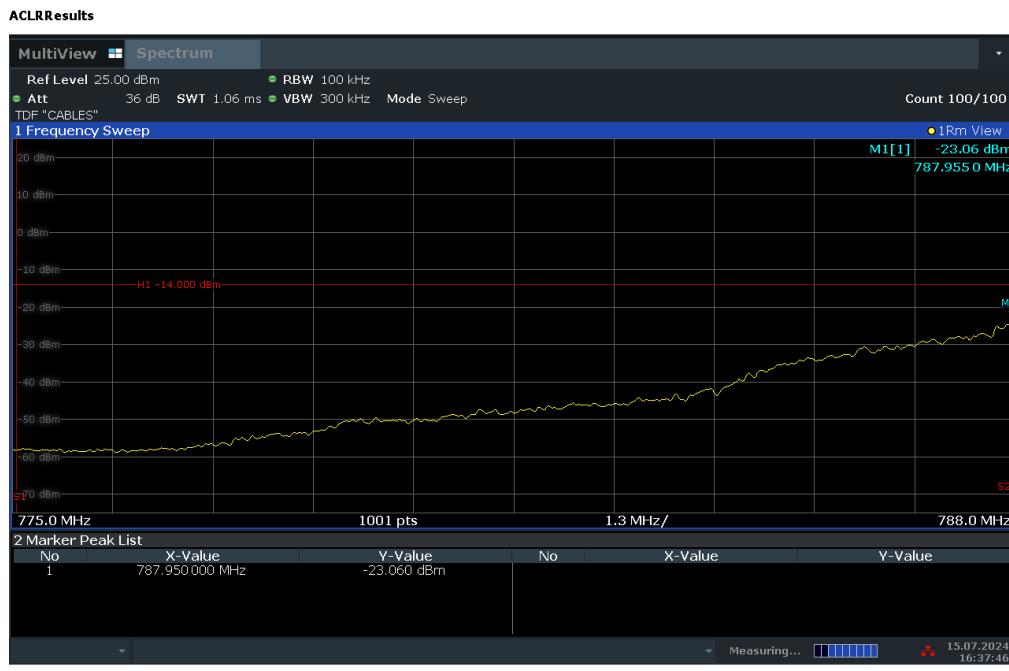
**Plot 7-95. Channel Edge Plot (LTE Band 26 - 5MHz QPSK – High Channel)**

FCC ID: BCGA3269	 <b>element</b> <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 68 of 107

**ACLRResults**

**Plot 7-96. Channel Edge Plot (LTE Band 26 - 10MHz QPSK – Low Channel)**
**ACLRResults**

**Plot 7-97. Channel Edge Plot (LTE Band 26 - 10MHz QPSK – High Channel)**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 69 of 107

## LTE Band 14

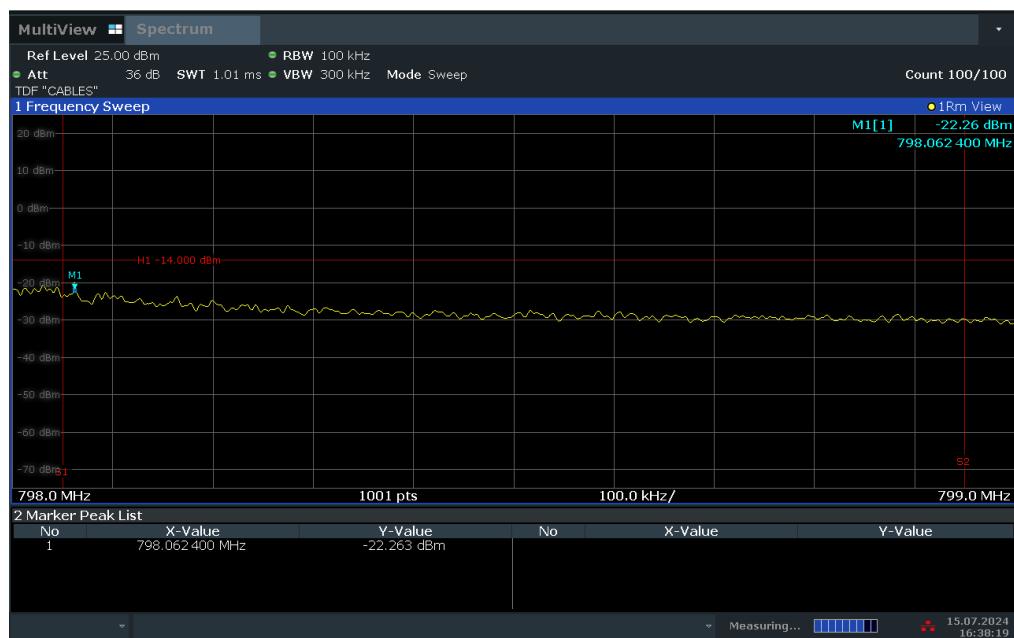
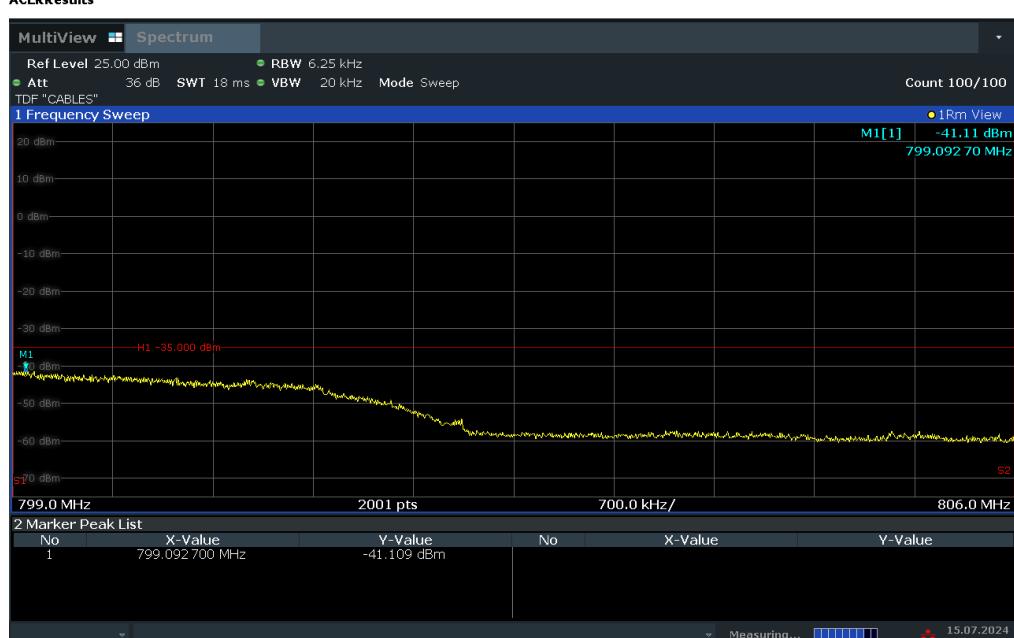


**Plot 7-98. Lower Band Edge Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)**

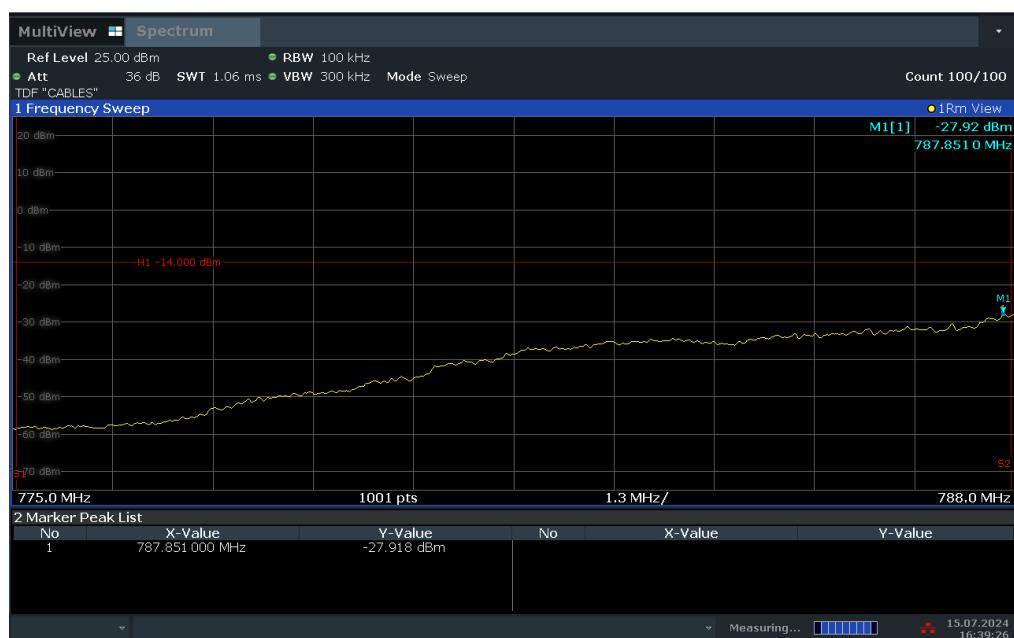


**Plot 7-99. Lower Emission Mask Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)**

FCC ID: BCGA3269	 <b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 70 of 107

**ACLRResults**

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

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

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 71 of 107

**ACLRResults**


16:39:27 15.07.2024

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

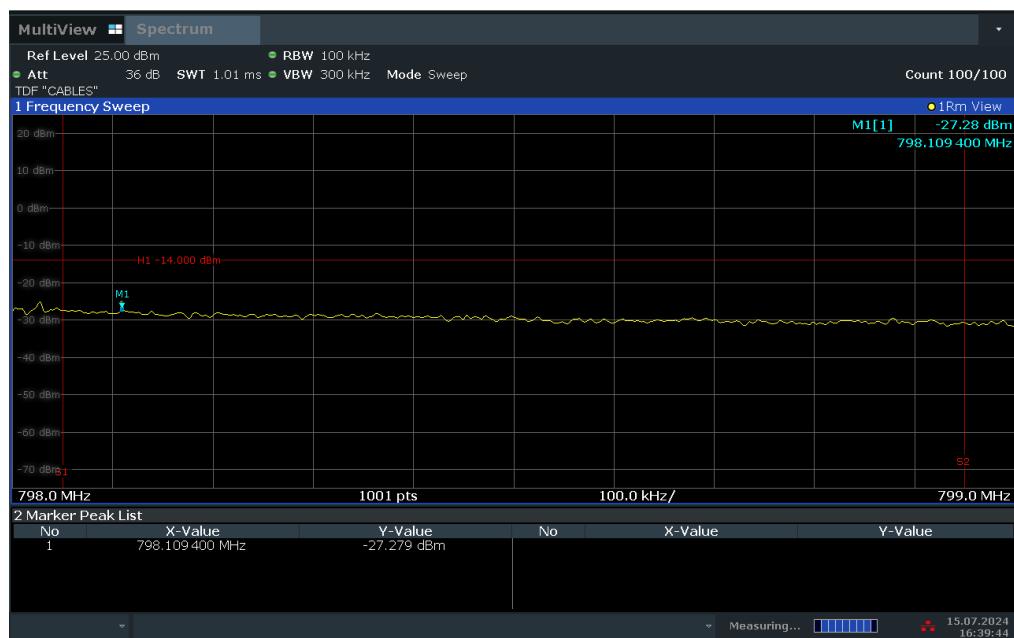
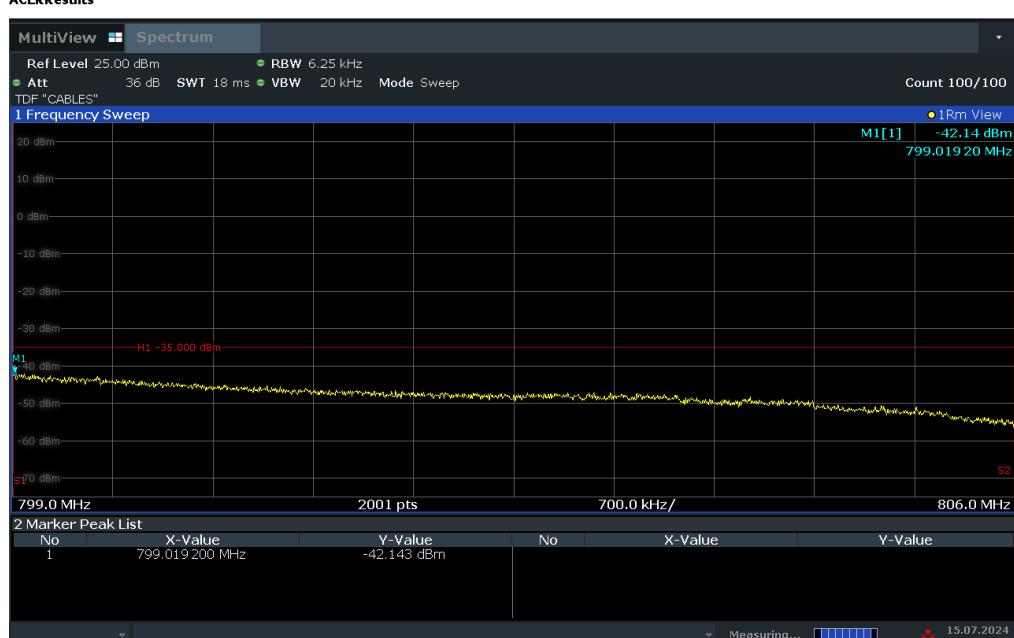

16:39:09 15.07.2024

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

FCC ID: BCGA3269	 <b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 72 of 107

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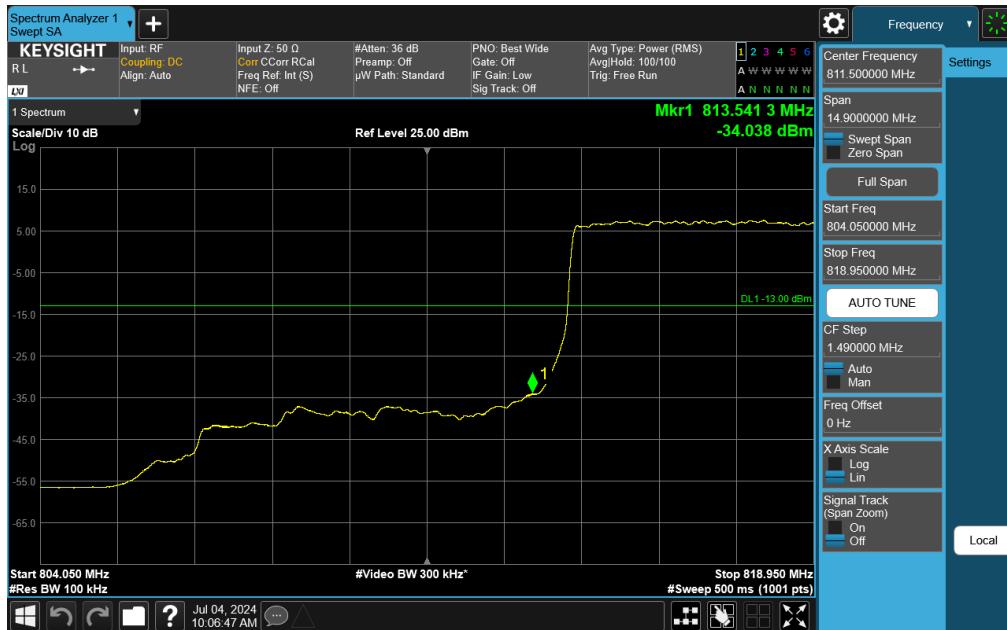
**ACLRResults**

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

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

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 73 of 107

## NR Band n26



FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 74 of 107



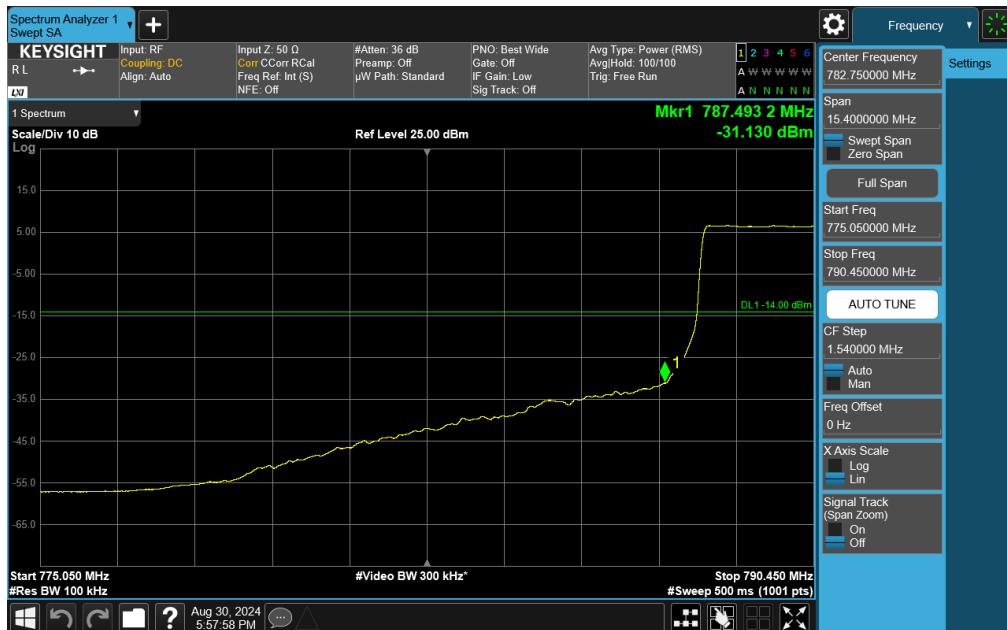
Plot 7-108. Lower Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM  $\pi/2$  BPSK – Mid Channel)



Plot 7-109. Upper Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM  $\pi/2$  BPSK – High Channel)

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 75 of 107

## NR Band n14

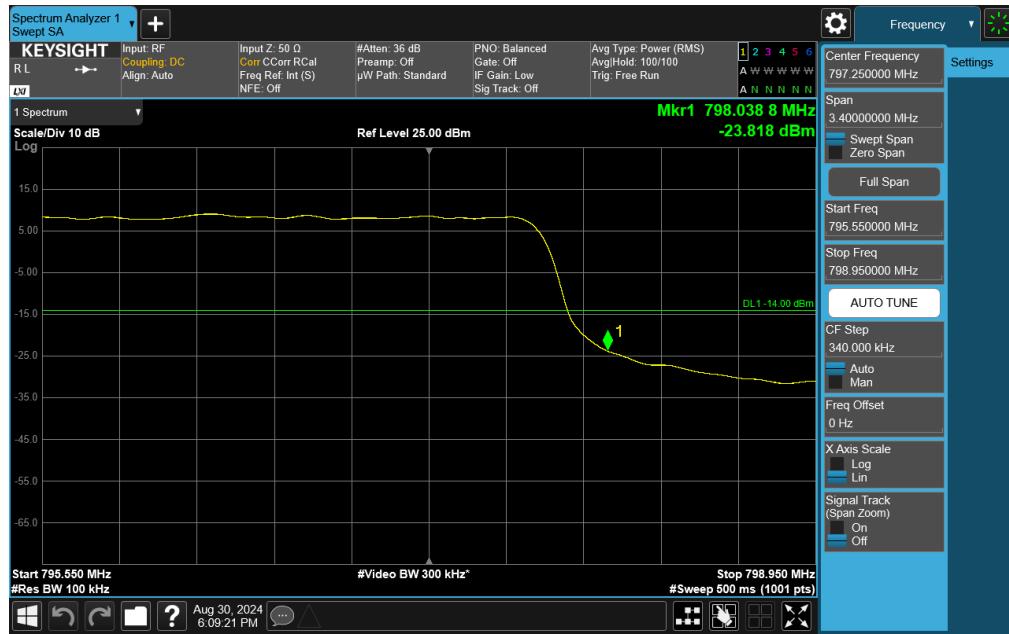


Plot 7-110. Lower Band Edge Plot (NR Band n14 - 5MHz CP-OFDM QPSK – RB Size 25)

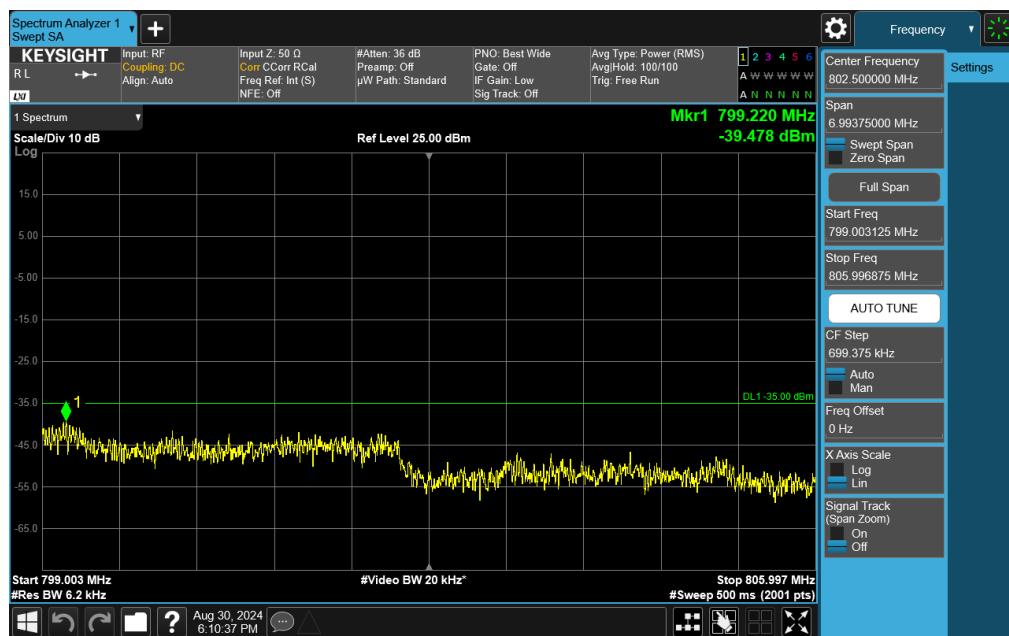


Plot 7-111. Lower Emission Mask Plot (NR Band n14 - 5MHz CP-OFDM QPSK – RB Size 25)

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 76 of 107

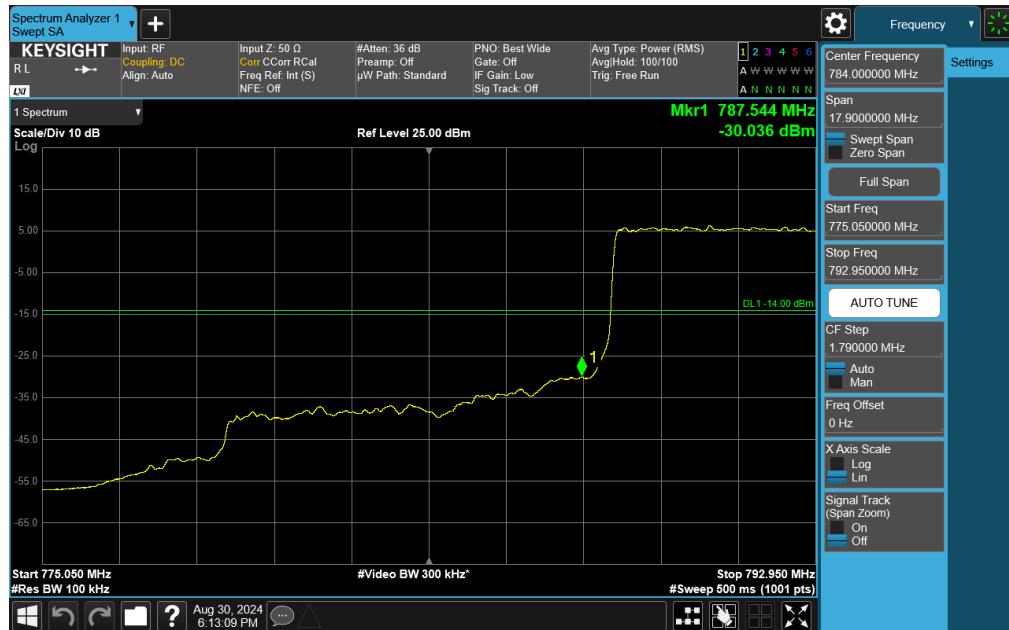


Plot 7-112. Upper Band Edge Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK – RB Size 25)

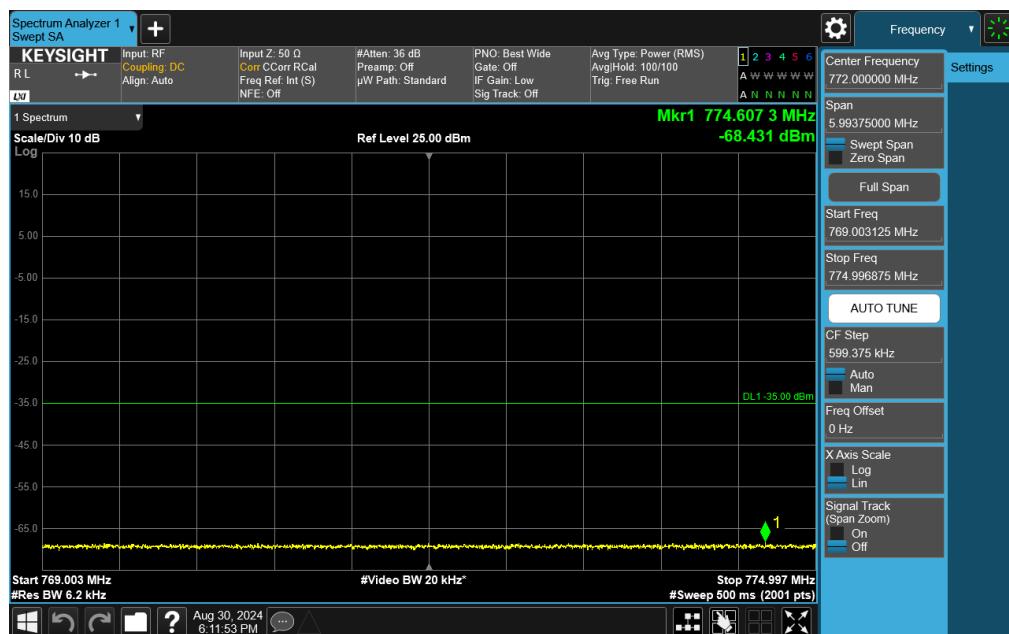


Plot 7-113. Upper Emission Mask Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK – RB Size 25)

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 77 of 107

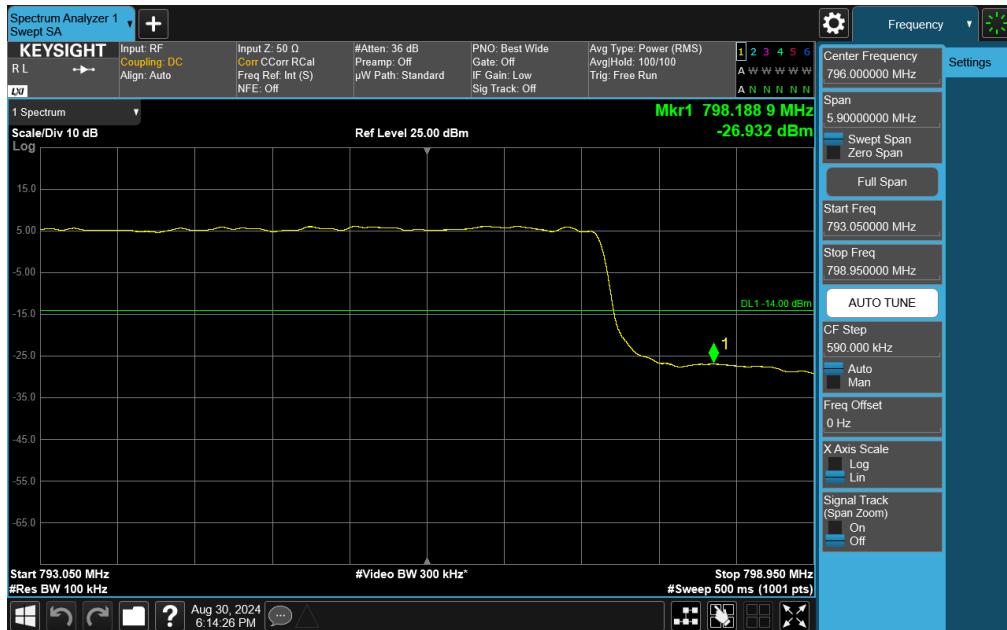


Plot 7-114. Lower Band Edge Plot (NR Band n14 - 10MHz QPSK – RB Size 50)

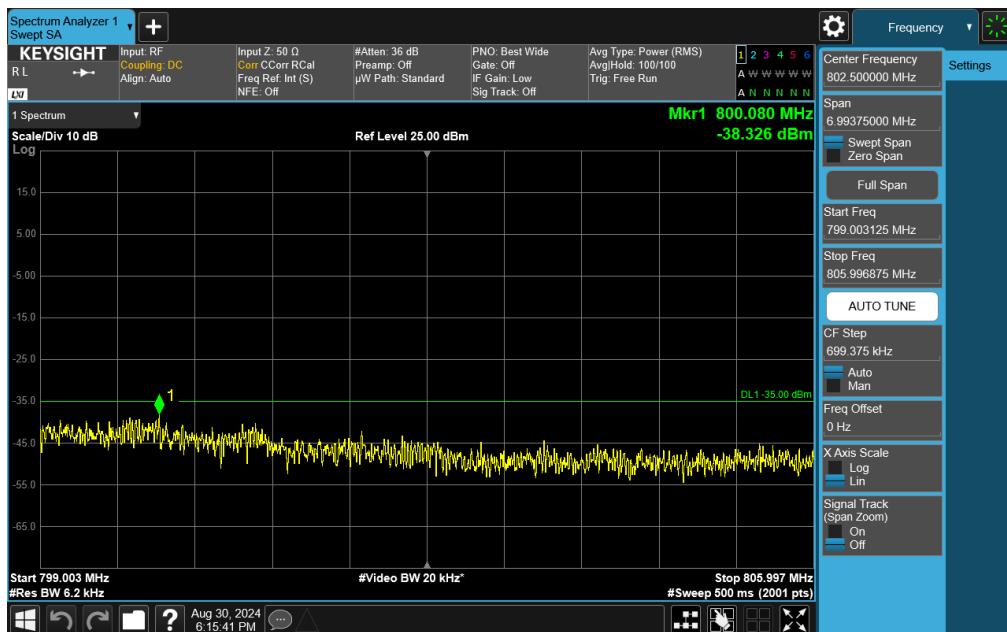


Plot 7-115. Lower Emission Mask Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 78 of 107



Plot 7-116. Upper Band Edge Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)



Plot 7-117. Upper Emission Mask Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 79 of 107

## 7.5 Conducted Power Output Data

§2.1046 §90.635

### Test Overview

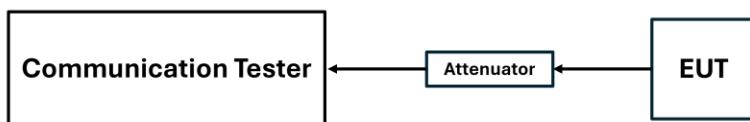
Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when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

### Test Procedures Used

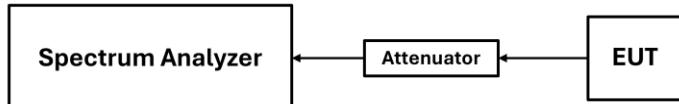
KDB 971168 D01 v03r01

### Test Setup

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



**Figure 7-7. LTE Conducted Power Measurement Setup**



**Figure 7-8. FR1 Test Instrument & 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.

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 80 of 107

### 7.5.1 Antenna 4 – Conducted Power

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	814.7	1 / 3	25.34	0.342	50.00	-24.66
		823.3	1 / 5	25.70	0.372	50.00	-24.30
	16-QAM	823.3	1 / 0	24.72	0.296	50.00	-25.28
	64-QAM	823.3	1 / 0	23.54	0.226	50.00	-26.46
	256-QAM	814.7	1 / 0	20.82	0.121	50.00	-29.18
3 MHz	QPSK	815.5	1 / 14	25.63	0.366	50.00	-24.37
		822.5	1 / 0	25.60	0.363	50.00	-24.40
	16-QAM	822.5	1 / 14	24.71	0.296	50.00	-25.29
	64-QAM	815.5	1 / 14	23.64	0.231	50.00	-26.36
	256-QAM	822.5	1 / 0	20.76	0.119	50.00	-29.24
5 MHz	QPSK	816.5	1 / 24	25.55	0.359	50.00	-24.45
		821.5	1 / 24	25.55	0.359	50.00	-24.45
	16-QAM	816.5	1 / 0	24.62	0.290	50.00	-25.38
	64-QAM	821.5	1 / 12	23.62	0.230	50.00	-26.38
	256-QAM	821.5	1 / 12	20.59	0.115	50.00	-29.41
10 MHz	QPSK	819.0	1 / 25	25.70	0.372	50.00	-24.30
	16-QAM	819.0	1 / 25	24.76	0.299	50.00	-25.24
	64-QAM	819.0	1 / 0	23.62	0.230	50.00	-26.38
	256-QAM	819.0	1 / 25	20.52	0.113	50.00	-29.48

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

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	816.5	1 / 12	25.58	0.361	50.00	-24.42
		819.0	1 / 1	25.69	0.371	50.00	-24.31
		821.5	1 / 12	25.56	0.360	50.00	-24.44
	QPSK	816.5	1 / 12	25.68	0.370	50.00	-24.32
		819.0	1 / 12	25.70	0.372	50.00	-24.30
		821.5	1 / 23	25.64	0.366	50.00	-24.36
	16-QAM	816.5	1 / 1	24.74	0.298	50.00	-25.26
	64-QAM	821.5	1 / 12	23.74	0.237	50.00	-26.26
	256-QAM	816.5	1 / 1	20.81	0.121	50.00	-29.19
	$\pi/2$ BPSK	819.0	1 / 25	25.70	0.372	50.00	-24.30
10 MHz	QPSK	819.0	1 / 1	25.67	0.369	50.00	-24.33
	16-QAM	819.0	1 / 50	24.63	0.290	50.00	-25.37
	64-QAM	819.0	1 / 1	23.57	0.228	50.00	-26.43
	256-QAM	819.0	1 / 25	20.76	0.119	50.00	-29.24

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

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device			

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### 7.5.2 Antenna 2 - Conducted Power

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	814.7	1 / 5	24.65	0.292	50.00	-25.35
		823.3	1 / 0	24.61	0.289	50.00	-25.39
	16-QAM	814.7	1 / 3	23.66	0.232	50.00	-26.34
	64-QAM	814.7	1 / 5	22.69	0.186	50.00	-27.31
	256-QAM	814.7	1 / 0	19.78	0.095	50.00	-30.22
3 MHz	QPSK	815.5	1 / 7	24.34	0.272	50.00	-25.66
		822.5	1 / 14	24.50	0.282	50.00	-25.50
	16-QAM	815.5	1 / 0	23.66	0.232	50.00	-26.34
	64-QAM	815.5	1 / 0	22.66	0.185	50.00	-27.34
	256-QAM	822.5	1 / 7	19.77	0.095	50.00	-30.23
5 MHz	QPSK	816.5	1 / 12	24.64	0.291	50.00	-25.36
		821.5	1 / 0	24.52	0.283	50.00	-25.48
	16-QAM	816.5	1 / 0	23.72	0.236	50.00	-26.28
	64-QAM	821.5	1 / 0	22.71	0.187	50.00	-27.29
	256-QAM	821.5	1 / 24	19.74	0.094	50.00	-30.26
10 MHz	QPSK	819.0	1 / 49	24.70	0.295	50.00	-25.30
	16-QAM	819.0	1 / 0	23.66	0.232	50.00	-26.34
	64-QAM	819.0	1 / 49	22.58	0.181	50.00	-27.42
	256-QAM	819.0	1 / 25	19.80	0.095	50.00	-30.20

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

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	816.5	1 / 23	24.45	0.279	50.00	-25.55
		819.0	1 / 12	24.67	0.293	50.00	-25.33
		821.5	1 / 23	24.58	0.287	50.00	-25.42
	QPSK	816.5	1 / 12	24.51	0.282	50.00	-25.49
		819.0	1 / 12	24.70	0.295	50.00	-25.30
		821.5	1 / 23	24.65	0.292	50.00	-25.35
	16-QAM	819.0	1 / 12	23.73	0.236	50.00	-26.27
10 MHz	64-QAM	819.0	1 / 12	22.73	0.187	50.00	-27.27
	256-QAM	821.5	1 / 12	19.84	0.096	50.00	-30.16
	π/2 BPSK	819.0	1 / 50	24.43	0.277	50.00	-25.57
	QPSK	819.0	1 / 1	24.69	0.294	50.00	-25.31
	16-QAM	819.0	1 / 50	23.44	0.221	50.00	-26.56
	64-QAM	819.0	1 / 50	22.72	0.187	50.00	-27.28
	256-QAM	819.0	1 / 1	19.81	0.096	50.00	-30.19

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

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device			

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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

### Test Settings

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

$$\text{ERP} = \text{PMes} - \text{LC} + \text{GT}$$

Where:

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

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

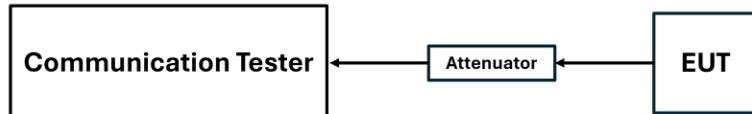
LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

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

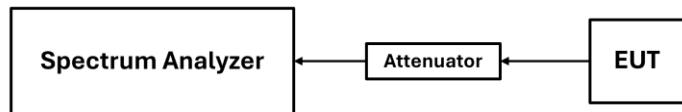
FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 83 of 107

### Test Setup

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



**Figure 7-9. LTE ERP Measurement Setup**



**Figure 7-10. FR1 ERP Measurement Setup**

### 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.

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		
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### 7.6.1 Antenna 4 - ERP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	790.5	-2.50	1 / 12	25.66	21.01	0.126	34.77	-13.76
		793.0	-2.50	1 / 0	25.68	<b>21.03</b>	0.127	34.77	-13.74
		795.5	-2.50	1 / 24	25.52	20.87	0.122	34.77	-13.90
	16-QAM	793.0	-2.50	1 / 0	24.70	20.05	0.101	34.77	-14.72
	64-QAM	790.5	-2.50	1 / 12	23.69	19.04	0.080	34.77	-15.73
	256-QAM	795.5	-2.50	1 / 24	20.72	16.07	0.040	34.77	-18.70
10 MHz	QPSK	793.0	-2.50	1 / 0	25.59	<b>20.94</b>	0.124	34.77	-13.83
	16-QAM	793.0	-2.50	1 / 25	24.45	19.80	0.095	34.77	-14.97
	64-QAM	793.0	-2.50	1 / 25	23.67	19.02	0.080	34.77	-15.75
	256-QAM	793.0	-2.50	1 / 25	20.79	16.14	0.041	34.77	-18.63

Table 7-6. Antenna 4 ERP Data (LTE Band 14)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	790.5	-2.50	1 / 1	25.41	20.76	0.119	34.77	-14.01
		793.0	-2.50	1 / 1	25.63	20.98	0.125	34.77	-13.79
		795.5	-2.50	1 / 23	25.70	<b>21.05</b>	0.127	34.77	-13.72
	QPSK	790.5	-2.50	1 / 12	25.58	20.93	0.124	34.77	-13.84
		793.0	-2.50	1 / 23	25.70	<b>21.05</b>	0.127	34.77	-13.72
		795.5	-2.50	1 / 12	25.44	20.79	0.120	34.77	-13.98
	16-QAM	793.0	-2.50	1 / 1	24.59	19.94	0.099	34.77	-14.83
	64-QAM	793.0	-2.50	1 / 1	23.68	19.03	0.080	34.77	-15.74
	256-QAM	790.5	-2.50	1 / 23	20.80	16.15	0.041	34.77	-18.62
	$\pi/2$ BPSK	793.0	-2.50	1 / 1	25.51	<b>20.86</b>	0.122	34.77	-13.91
10 MHz	QPSK	793.0	-2.50	1 / 50	25.70	<b>21.05</b>	0.127	34.77	-13.72
	16-QAM	793.0	-2.50	1 / 50	24.71	20.06	0.101	34.77	-14.71
	64-QAM	793.0	-2.50	1 / 1	23.63	18.98	0.079	34.77	-15.79
	256-QAM	793.0	-2.50	1 / 1	20.84	16.19	0.042	34.77	-18.58

Table 7-7. Antenna 4 ERP Data (NR Band n14)

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device				

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## 7.6.2 Antenna 2 - ERP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	790.5	-2.20	1 / 0	24.55	20.20	0.105	34.77	-14.57
		793.0	-2.20	1 / 0	24.50	20.15	0.104	34.77	-14.62
		795.5	-2.20	1 / 24	24.70	<b>20.35</b>	0.108	34.77	-14.42
	16-QAM	793.0	-2.20	1 / 12	23.65	19.30	0.085	34.77	-15.47
	64-QAM	790.5	-2.20	1 / 24	22.57	18.22	0.066	34.77	-16.55
	256-QAM	793.0	-2.20	1 / 24	19.75	15.40	0.035	34.77	-19.37
	QPSK	793.0	-2.20	1 / 0	24.62	<b>20.27</b>	0.106	34.77	-14.50
	16-QAM	793.0	-2.20	1 / 0	23.60	19.25	0.084	34.77	-15.52
	64-QAM	793.0	-2.20	1 / 49	22.52	18.17	0.066	34.77	-16.60
10 MHz	256-QAM	793.0	-2.20	1 / 0	19.74	15.39	0.035	34.77	-19.38

Table 7-8. Antenna 2 ERP Data (LTE Band 14)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	790.5	-2.20	1 / 12	24.60	20.25	0.106	34.77	-14.52
		793.0	-2.20	1 / 12	24.69	<b>20.34</b>	0.108	34.77	-14.43
		795.5	-2.20	1 / 23	24.69	<b>20.34</b>	0.108	34.77	-14.43
	QPSK	790.5	-2.20	1 / 23	24.69	20.34	0.108	34.77	-14.43
		793.0	-2.20	1 / 1	24.70	<b>20.35</b>	0.108	34.77	-14.42
		795.5	-2.20	1 / 1	24.61	20.26	0.106	34.77	-14.51
	16-QAM	795.5	-2.20	1 / 23	23.68	19.33	0.086	34.77	-15.44
	64-QAM	795.5	-2.20	1 / 23	22.69	18.34	0.068	34.77	-16.43
	256-QAM	790.5	-2.20	1 / 1	19.80	15.45	0.035	34.77	-19.32
	$\pi/2$ BPSK	793.0	-2.20	1 / 1	24.70	<b>20.35</b>	0.108	34.77	-14.42
	QPSK	793.0	-2.20	1 / 1	24.66	<b>20.31</b>	0.107	34.77	-14.46
	16-QAM	793.0	-2.20	1 / 50	23.72	19.37	0.086	34.77	-15.40
10 MHz	64-QAM	793.0	-2.20	1 / 50	22.81	18.46	0.070	34.77	-16.31
	256-QAM	793.0	-2.20	1 / 25	19.59	15.24	0.033	34.77	-19.53

Table 7-9. Antenna 2 ERP Data (NR Band n14)

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device				

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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

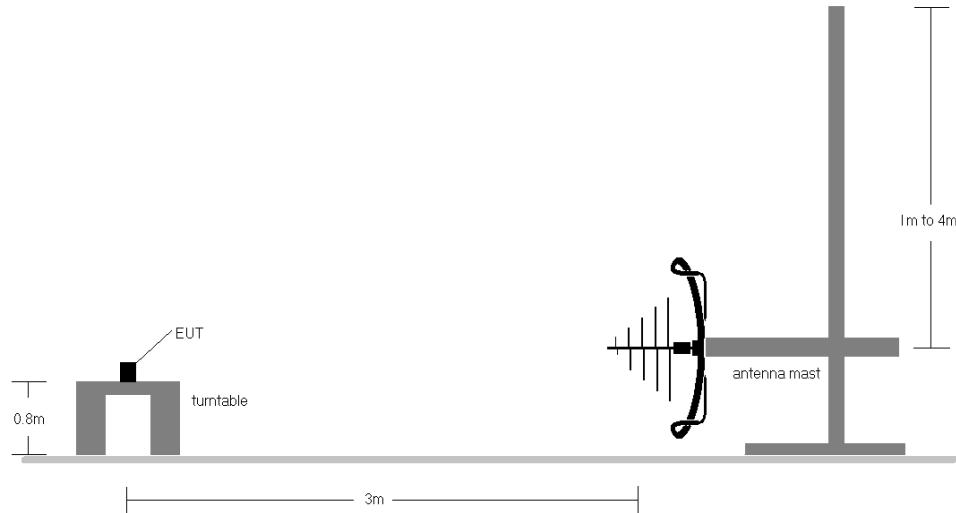
### Test Settings

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 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

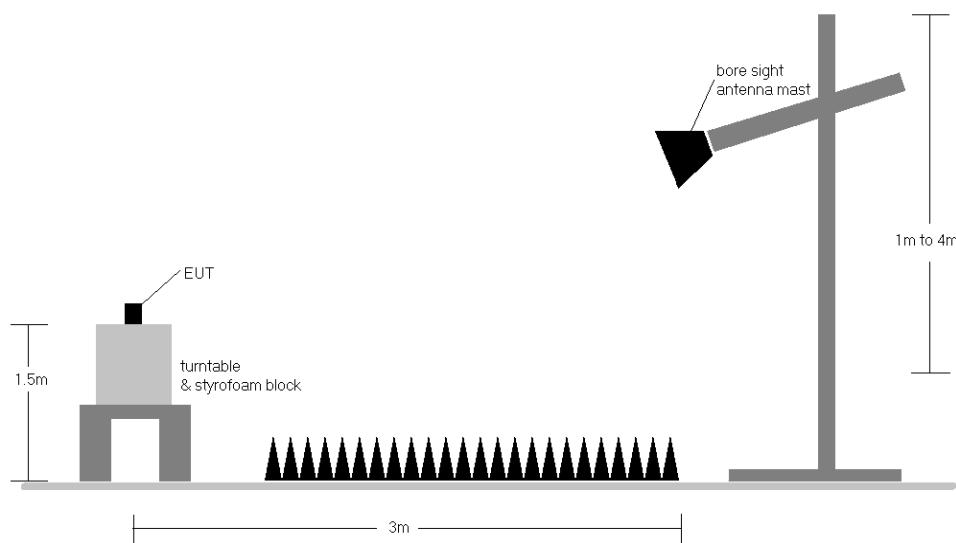
FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 87 of 107

## Test Setup

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



**Figure 7-11. Test Instrument & Measurement Setup < 1GHz**



**Figure 7-12. Test Instrument & Measurement Setup >1 GHz**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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**Test Notes**

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
  - a.  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b.  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; 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.

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device	Page 89 of 107

### 7.7.1 Antenna 4 – 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-77.23	-3.25	26.52	-68.74	-13.00	-55.74
2449.5	V	-	-	-77.65	1.35	30.70	-64.56	-13.00	-51.56
3266.0	H	-	-	-78.38	2.75	31.37	-63.89	-13.00	-50.89

Table 7-10. Antenna 4 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	V	-	-	-77.24	-3.25	26.52	-68.74	-13.00	-55.74
2457.0	V	-	-	-77.33	1.25	30.91	-64.34	-13.00	-51.34
3276.0	V	-	-	-77.64	2.54	31.90	-63.36	-13.00	-50.36

Table 7-11. Antenna 4 Radiated Spurious Data (LTE Band 26 – Mid Channel)

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

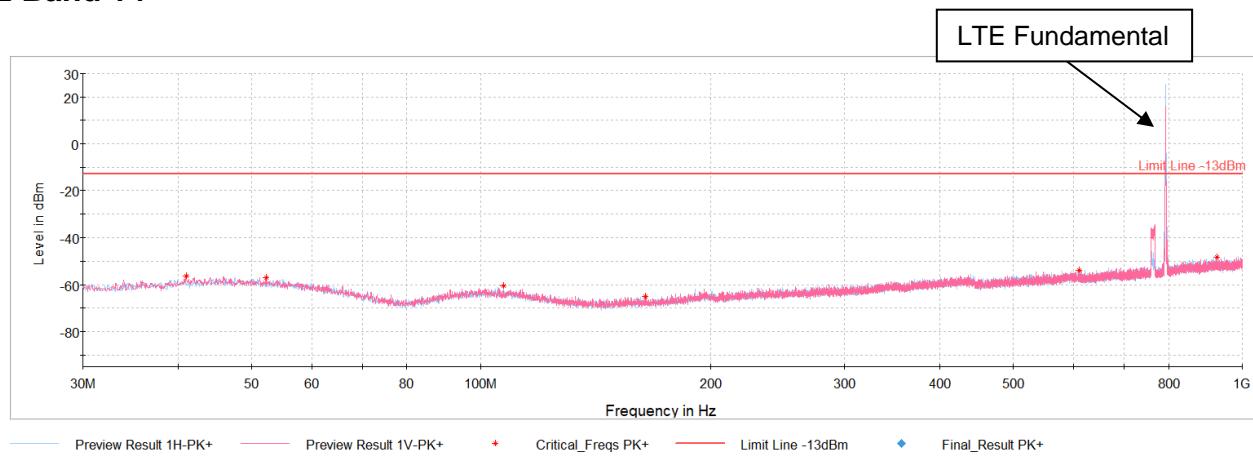
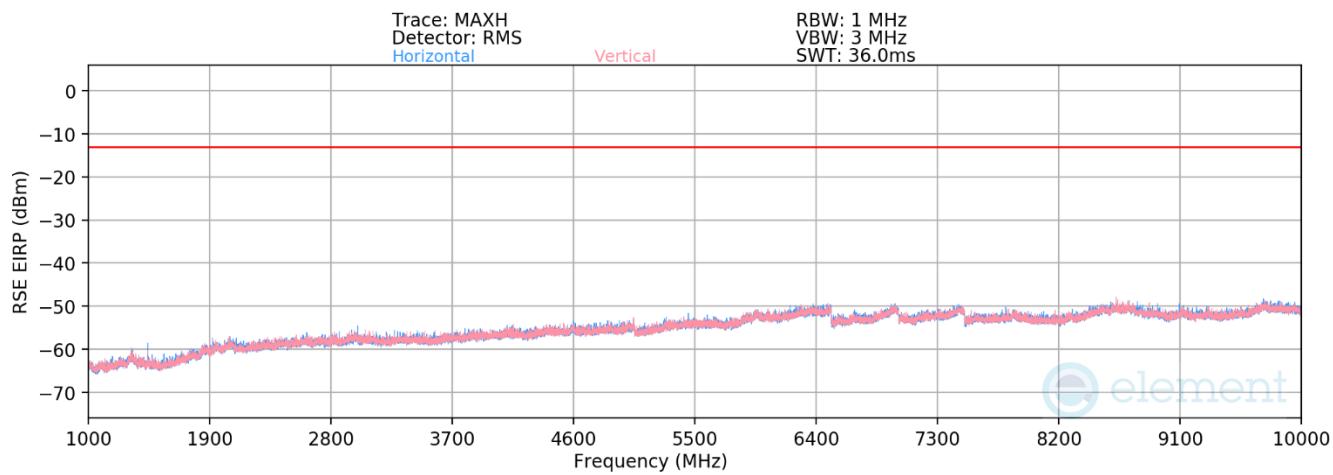
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-77.10	-3.28	26.63	-68.63	-13.00	-55.63
2464.5	V	-	-	-77.50	1.35	30.85	-64.41	-13.00	-51.41
3286.0	H	-	-	-78.04	2.83	31.79	-63.47	-13.00	-50.47

Table 7-12. Antenna 4 Radiated Spurious Data (LTE Band 26 – High Channel)

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
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**LTE Band 14**

**Plot 7-118. Antenna 4 Radiated Spurious Plot Below 1GHz (LTE Band 14)**

**Plot 7-119. Antenna 4 Radiated Spurious Plot Above 1GHz (LTE Band 14)**

FCC ID: BCGA3269	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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	H	-	-	-76.87	-3.99	26.14	-69.12	-40.00	-29.12
2371.5	V	-	-	-78.16	1.21	30.05	-65.21	-13.00	-52.21
3162.0	V	-	-	-78.08	2.47	31.38	-63.87	-13.00	-50.87

**Table 7-13. Antenna 4 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	H	-	-	-76.83	-3.88	26.29	-68.97	-40.00	-28.97
2379.0	H	-	-	-78.10	1.21	30.12	-65.14	-13.00	-52.14
3172.0	H	-	-	-78.15	2.47	31.31	-63.94	-13.00	-50.94

**Table 7-14. Antenna 4 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-77.16	-3.69	26.15	-69.11	-40.00	-29.11
2386.5	V	-	-	-77.61	1.13	30.52	-64.74	-13.00	-51.74
3182.0	V	-	-	-78.11	2.43	31.32	-63.94	-13.00	-50.94

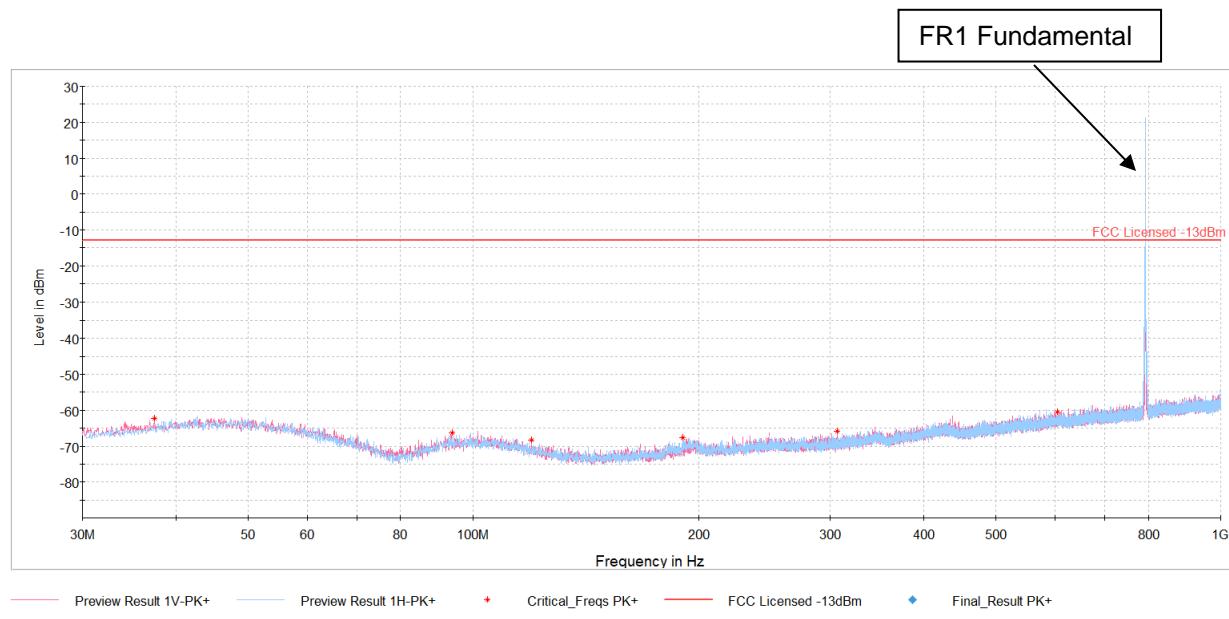
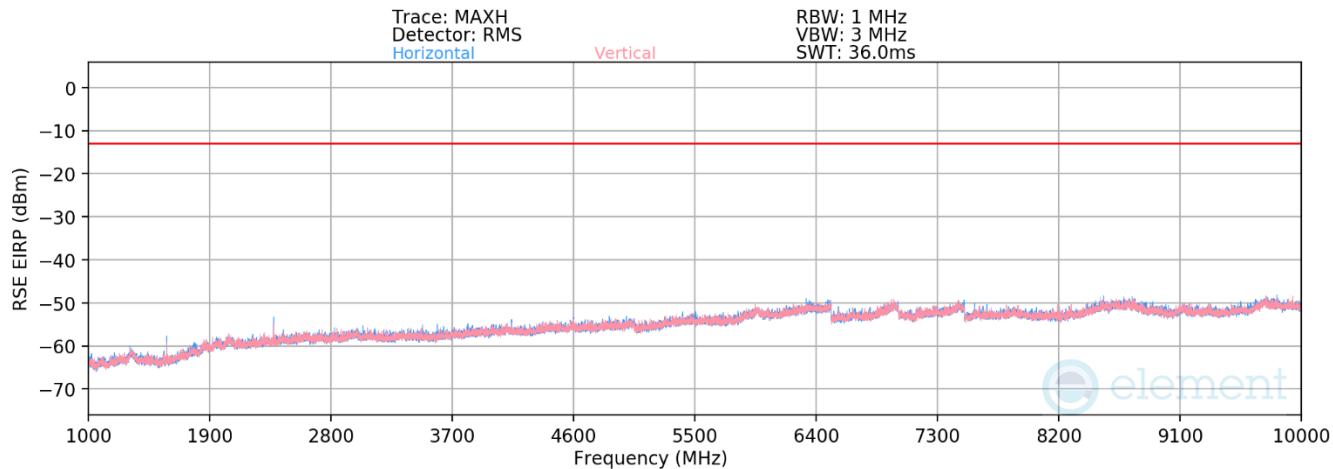
**Table 7-15. Antenna 4 Radiated Spurious Data (LTE Band 14 – High Channel)**

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device					

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**NR Band n14**

**Plot 7-120. Antenna 2 Radiated Spurious Plot Below 1GHz (NR Band n14)**

**Plot 7-121. Antenna 2 Radiated Spurious Plot Above 1GHz (NR Band n14)**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 93 of 107

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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	H	140	231	-71.41	-3.80	31.79	-63.46	-40.00	-23.46
2371.5	V	261	165	-70.36	1.09	37.73	-57.53	-13.00	-44.53
3162.0	H	-	-	-78.09	2.55	31.46	-63.80	-13.00	-50.80
3952.5	V	-	-	-78.49	3.79	32.29	-62.96	-13.00	-49.96
4743.0	V	-	-	-79.39	5.54	33.15	-62.11	-13.00	-49.11

**Table 7-16. Antenna 4 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	V	-	-	-77.18	-3.80	26.02	-69.23	-40.00	-29.23
2379.0	H	-	-	-77.82	1.21	30.39	-64.87	-13.00	-51.87
3172.0	V	-	-	-77.91	2.43	31.52	-63.74	-13.00	-50.74

**Table 7-17. Antenna 4 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-77.02	-3.74	26.24	-69.02	-40.00	-29.02
2386.5	H	-	-	-78.12	1.44	30.33	-64.93	-13.00	-51.93
3182.0	V	-	-	-78.04	2.60	31.56	-63.70	-13.00	-50.70

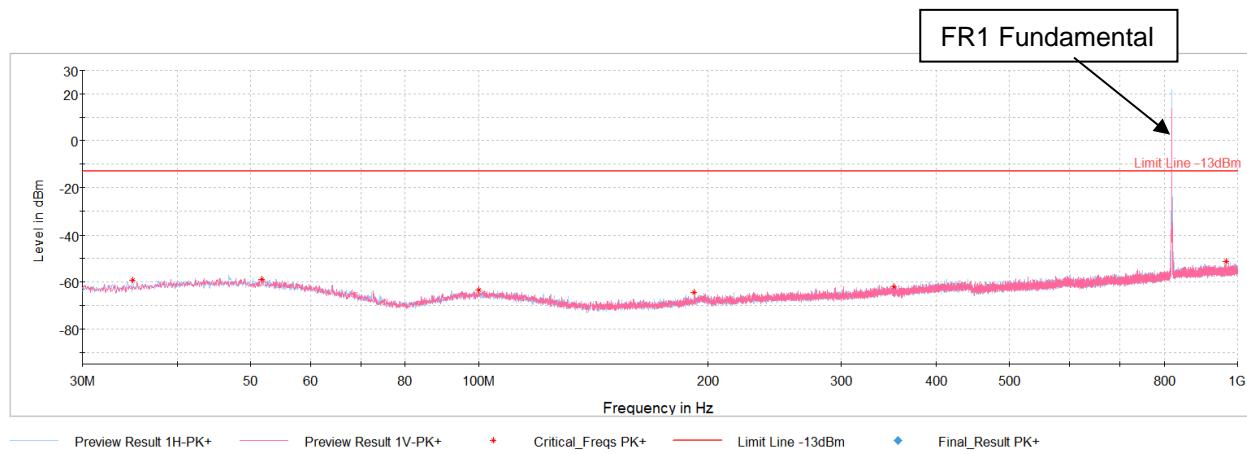
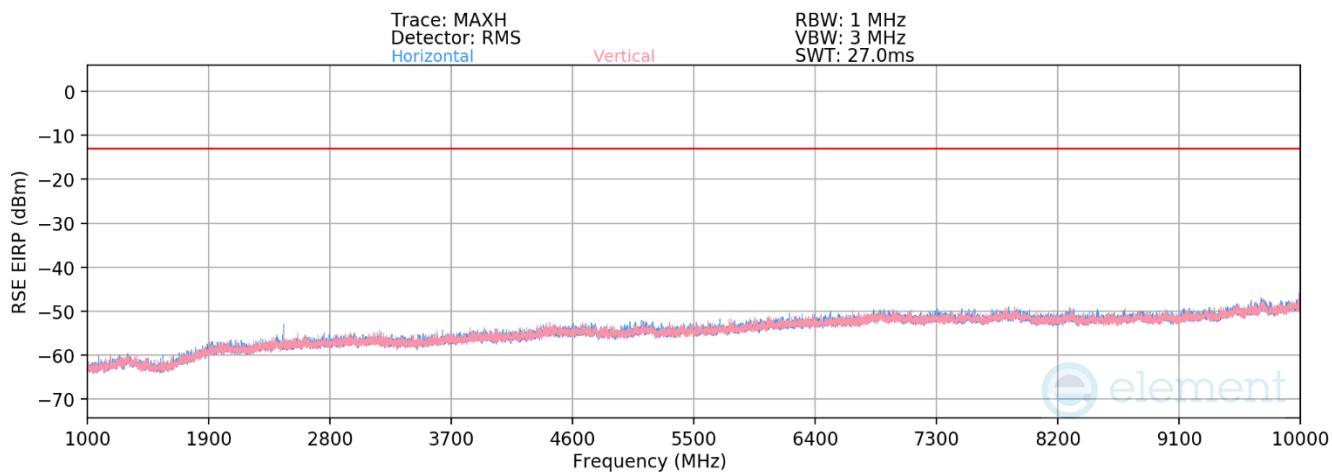
**Table 7-18. Antenna 4 Radiated Spurious Data (NR Band n14 – High Channel)**

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device					

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**NR Band n26**

**Plot 7-122. Antenna 4 Radiated Spurious Plot Below 1GHz (NR Band n26)**

**Plot 7-123. Antenna 4 Radiated Spurious Plot Above 1GHz (NR Band n26)**

FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 95 of 107

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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-78.53	-1.90	26.57	-68.69	-13.00	-55.69
2449.5	V	-	-	-77.93	2.31	31.38	-63.88	-13.00	-50.88
3266.0	H	-	-	-78.61	3.77	32.16	-63.10	-13.00	-50.10

**Table 7-19. Antenna 4 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	V	-	-	-76.98	-2.71	27.31	-67.95	-13.00	-54.95
2457.0	V	260	171	-72.48	2.45	36.97	-58.28	-13.00	-45.28
3276.0	H	-	-	-78.67	3.72	32.05	-63.20	-13.00	-50.20
4095.0	V	-	-	-79.49	5.74	33.25	-62.01	-13.00	-49.01
4914.0	H	-	-	-80.54	7.77	34.23	-61.03	-13.00	-48.03

**Table 7-20. Antenna 4 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-77.81	-1.99	27.20	-68.06	-13.00	-55.06
2464.5	H	-	-	-78.27	2.38	31.12	-64.14	-13.00	-51.14
3286.0	H	-	-	-79.16	3.85	31.69	-63.57	-13.00	-50.57

**Table 7-21. Antenna 4 Radiated Spurious Data (NR Band n26 – High Channel)**

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device					

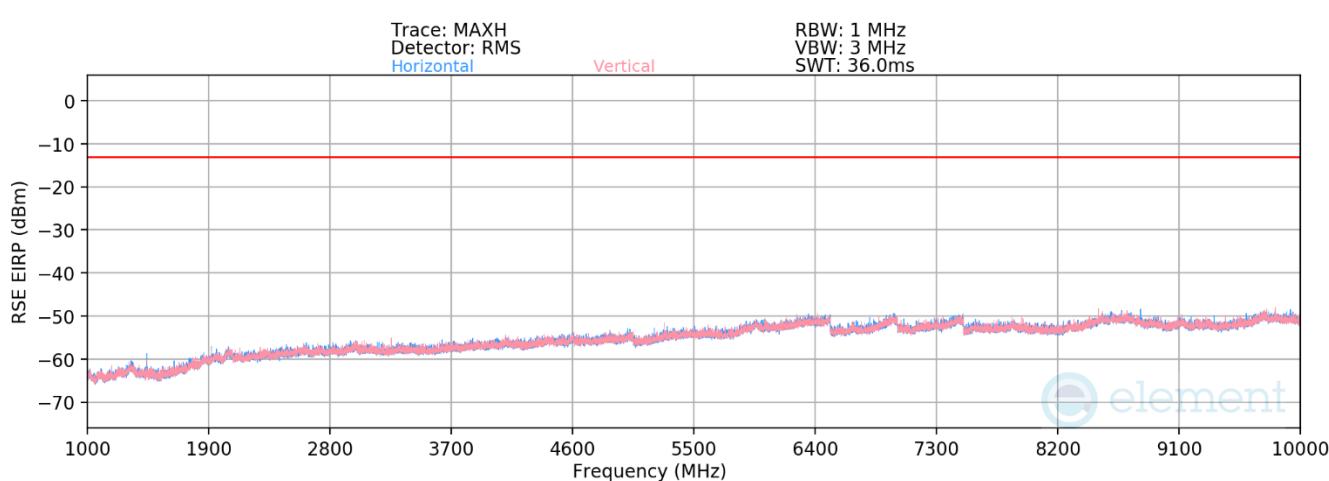
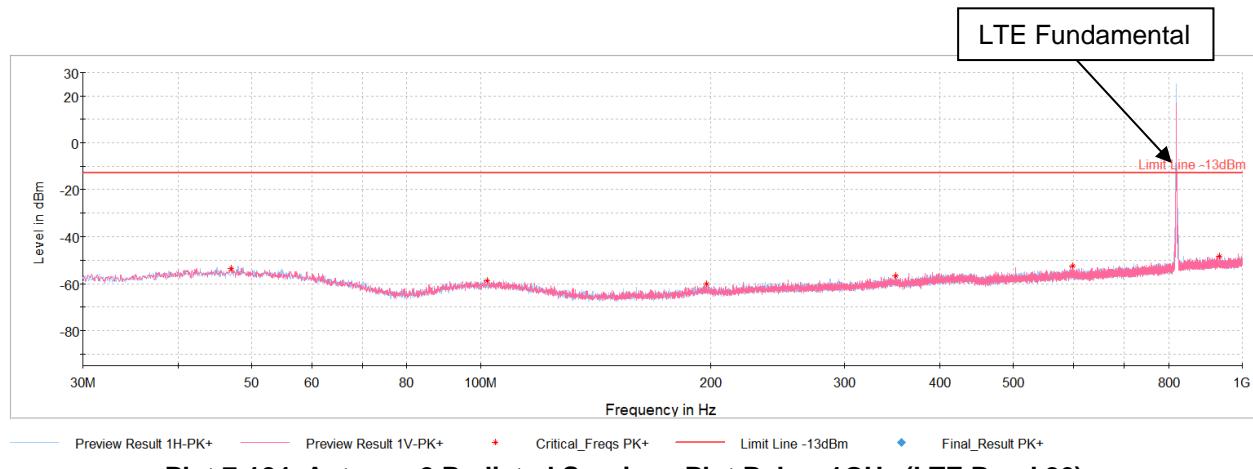
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## 7.7.2 Antenna 2 – Radiated Spurious Emission Measurements

### LTE Band 26



FCC ID: BCGA3269	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device		Page 97 of 107

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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-75.88	-3.81	27.30	-67.96	-13.00	-54.96
2449.5	V	-	-	-77.36	1.35	30.99	-64.26	-13.00	-51.26
3266.0	H	-	-	-78.34	2.75	31.41	-63.84	-13.00	-50.84

**Table 7-22. Antenna 2 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	H	153	272	-75.16	-3.81	28.03	-67.23	-13.00	-54.23
2457.0	V	-	-	-77.74	1.35	30.61	-64.65	-13.00	-51.65
3276.0	V	-	-	-77.86	2.54	31.68	-63.57	-13.00	-50.57
4095.0	V	-	-	-78.30	4.34	33.03	-62.22	-13.00	-49.22

**Table 7-23. Antenna 2 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	208	111	-72.96	-3.81	30.23	-65.03	-13.00	-52.03
2464.5	H	-	-	-77.55	1.35	30.80	-64.46	-13.00	-51.46
3286.0	H	-	-	-78.21	2.83	31.62	-63.64	-13.00	-50.64
4107.5	V	-	-	-78.24	4.34	33.10	-62.16	-13.00	-49.16

**Table 7-24. Antenna 2 Radiated Spurious Data (LTE Band 26 – High Channel)**

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device				

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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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	V	-	-	-76.99	-3.80	26.21	-69.04	-40.00	-29.04
2371.5	H	-	-	-78.05	0.99	29.94	-65.32	-13.00	-52.32
3162.0	V	-	-	-78.31	2.60	31.29	-63.96	-13.00	-50.96

Table 7-25. Antenna 2 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	V	-	-	-77.12	-3.80	26.09	-69.17	-40.00	-29.17
2379.0	H	-	-	-78.02	1.44	30.42	-64.84	-13.00	-51.84
3172.0	H	-	-	-78.27	2.55	31.28	-63.98	-13.00	-50.98

Table 7-26. Antenna 2 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	V	-	-	-77.21	-3.64	26.16	-69.10	-40.00	-29.10
2386.5	H	-	-	-78.01	1.21	30.20	-65.05	-13.00	-52.05
3182.0	V	-	-	-78.30	2.60	31.30	-63.95	-13.00	-50.95

Table 7-27. Antenna 2 Radiated Spurious Data (LTE Band 14 – High Channel)

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device					

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## NR Band n14

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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	V	-	-	-76.75	-3.99	26.26	-69.00	-40.00	-29.00
2371.5	H	-	-	-77.91	1.13	30.22	-65.04	-13.00	-52.04
3162.0	V	-	-	-78.07	2.55	31.48	-63.78	-13.00	-50.78

Table 7-28. Antenna 2 Radiated Spurious Data (NR Band n14 – Low Channel)

Bandwidth (MHz):	5
Frequency (MHz):	793.0
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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	V	-	-	-77.14	-3.69	26.17	-69.09	-40.00	-29.09
2379.0	H	322	180	-74.39	1.13	33.73	-61.52	-13.00	-48.52
3172.0	H	-	-	-77.97	2.47	31.49	-63.76	-13.00	-50.76
3965.0	V	-	-	-78.46	3.73	32.28	-62.98	-13.00	-49.98
4758.0	V	-	-	-79.26	5.43	33.16	-62.09	-13.00	-49.09

Table 7-29. Antenna 2 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	V	-	-	-77.21	-3.64	26.15	-69.10	-40.00	-29.10
2386.5	H	-	-	-77.67	1.21	30.54	-64.72	-13.00	-51.72
3182.0	V	-	-	-78.00	2.60	31.60	-63.66	-13.00	-50.66

Table 7-30. Antenna 2 Radiated Spurious Data (NR Band n14 – High Channel)

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device					

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## NR Band n26

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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-76.20	-3.81	26.99	-68.27	-13.00	-55.27
2449.5	H	-	-	-77.60	1.35	30.75	-64.51	-13.00	-51.51
3266.0	V	-	-	-77.83	2.54	31.71	-63.55	-13.00	-50.55

Table 7-31. Antenna 2 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	H	-	-	-75.79	-3.81	27.40	-67.86	-13.00	-54.86
2457.0	V	-	-	-77.67	1.51	30.83	-64.42	-13.00	-51.42
3276.0	H	-	-	-77.79	2.54	31.75	-63.51	-13.00	-50.51

Table 7-32. Antenna 2 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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-75.71	-3.81	27.48	-67.78	-13.00	-54.78
2464.5	H	-	-	-77.62	1.35	30.73	-64.53	-13.00	-51.53
3286.0	H	-	-	-77.91	2.83	31.92	-63.34	-13.00	-50.34

Table 7-33. Antenna 2 Radiated Spurious Data (NR Band n26 – High Channel)

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210075-12-R2.BCG	Test Dates: 7/1/2024 - 12/27/2024	EUT Type: Tablet Device					

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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. The frequency stability of the transmitter is measured by:

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

**For Band 26, the frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5 \text{ ppm}$ ) 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

### Test Settings

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

### Test Setup

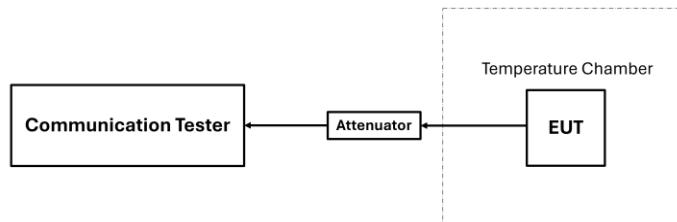


Figure 7-13. LTE Test Instrument & Measurement Setup

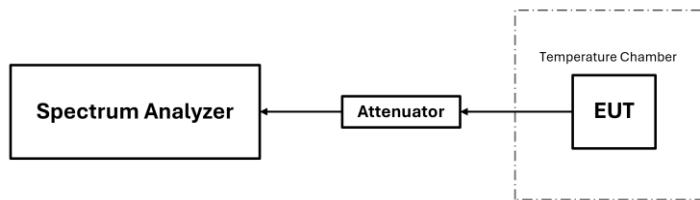


Figure 7-14. FR1 Test Instrument & Measurement Setup

### Test Notes

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

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## Frequency Stability / Temperature Variation

<b>LTE Band 26</b>											
<table border="1"> <tr> <td>Operating Frequency (GHz):</td><td>0.819</td></tr> <tr> <td>Ref. Voltage (VDC):</td><td>3.80</td></tr> <tr> <td>Deviation Limit:</td><td><math>\pm 0.00025\%</math> or 2.5 ppm</td></tr> </table>						Operating Frequency (GHz):	0.819	Ref. Voltage (VDC):	3.80	Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm
Operating Frequency (GHz):	0.819										
Ref. Voltage (VDC):	3.80										
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm										
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)						
100 %	3.80	- 30	0.818999946	-0.000000066	-0.000008059						
		- 20	0.818999948	-0.000000064	-0.000007814						
		- 10	0.819000126	0.000000114	0.000013919						
		0	0.819000131	0.000000119	0.000014530						
		+ 10	0.819000003	-0.000000009	-0.000001099						
		+ 20 (Ref)	0.819000012	0.000000000	0.000000000						
		+ 30	0.819000004	-0.000000008	-0.000000977						
		+ 40	0.819000086	0.000000074	0.000009035						
		+ 50	0.819000089	0.000000077	0.000009402						
Battery Endpoint	3.40	+ 20	0.818999968	-0.000000044	-0.000005372						

Table 7-34. LTE Band 26 Frequency Stability Data

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**Frequency Stability / Temperature Variation**
**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)
100 %	3.80	- 30	0.788503275	-0.000503275
		- 20	0.788394503	-0.000394503
		- 10	0.788502805	-0.000502805
		0	0.789007708	-0.001007708
		+ 10	0.788789638	-0.000789638
		+ 20 (Ref)	0.788289200	-0.000289200
		+ 30	0.788496571	-0.000496571
		+ 40	0.788139537	-0.000139537
		+ 50	0.788779398	-0.000779398
		Battery Endpoint	0.788708212	-0.000708212

**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		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.797329360	-0.000670640
		- 20	0.797071325	-0.000928675
		- 10	0.797208795	-0.000791205
		0	0.797877383	-0.000122617
		+ 10	0.797456796	-0.000543204
		+ 20 (Ref)	0.797316886	-0.000683114
		+ 30	0.797217168	-0.000782832
		+ 40	0.797187337	-0.000812663
		+ 50	0.797440645	-0.000559355
		Battery Endpoint	0.797770188	-0.000229812

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

FCC ID: BCGA3269	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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**Frequency Stability / Temperature Variation**
**NR Band n26**

Operating Frequency (GHz):	0.819				
Ref. Voltage (VDC):	3.80				
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm				
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
100 %	3.80	- 30	0.819000126	0.000000084	0.000010256
		- 20	0.819000101	0.000000059	0.000007204
		- 10	0.819000106	0.000000064	0.000007814
		0	0.819000034	-0.000000008	-0.000000977
		+ 10	0.819000070	0.000000028	0.000003419
		+ 20 (Ref)	0.819000042	0.000000000	0.000000000
		+ 30	0.818999959	-0.000000083	-0.000010134
		+ 40	0.818999922	-0.000000120	-0.000014652
		+ 50	0.819000027	-0.000000015	-0.000001832
Battery Endpoint	3.40	+ 20	0.818999994	-0.000000048	-0.000005861

**Table 7-37. NR Band n26 Frequency Stability Data**

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## Frequency Stability / Temperature Variation

### NR Band n14

		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)
100 %	3.80	- 30	0.788061864	-0.000061864
		- 20	0.788012613	-0.000012613
		- 10	0.788194182	-0.000194182
		0	0.788652186	-0.000652186
		+ 10	0.788105071	-0.000105071
		+ 20 (Ref)	0.788431495	-0.000431495
		+ 30	0.788263389	-0.000263389
		+ 40	0.788719909	-0.000719909
		+ 50	0.788797893	-0.000797893
		Battery Endpoint	0.788933893	-0.000933893

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

### NR Band n14

		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)
100 %	3.80	- 30	0.797076266	-0.000923734
		- 20	0.797252559	-0.000747441
		- 10	0.797170490	-0.000829510
		0	0.797069677	-0.000930323
		+ 10	0.797507939	-0.000492061
		+ 20 (Ref)	0.797606400	-0.000393600
		+ 30	0.797576366	-0.000423634
		+ 40	0.797023847	-0.000976153
		+ 50	0.797940648	-0.000059352
		Battery Endpoint	0.797055908	-0.000944092

Table 7-39. NR Band n14 Upper Boundary Frequency Stability Data

FCC ID: BCGA3269	 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: BCGA3269** complies with all the requirements of Part 90 of the FCC rules.

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