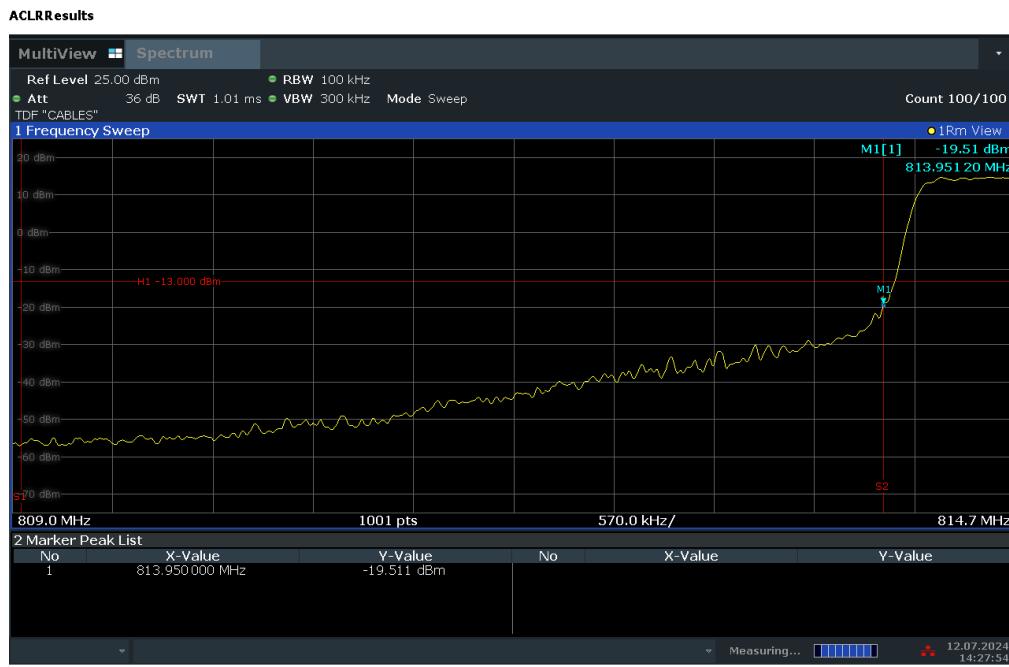
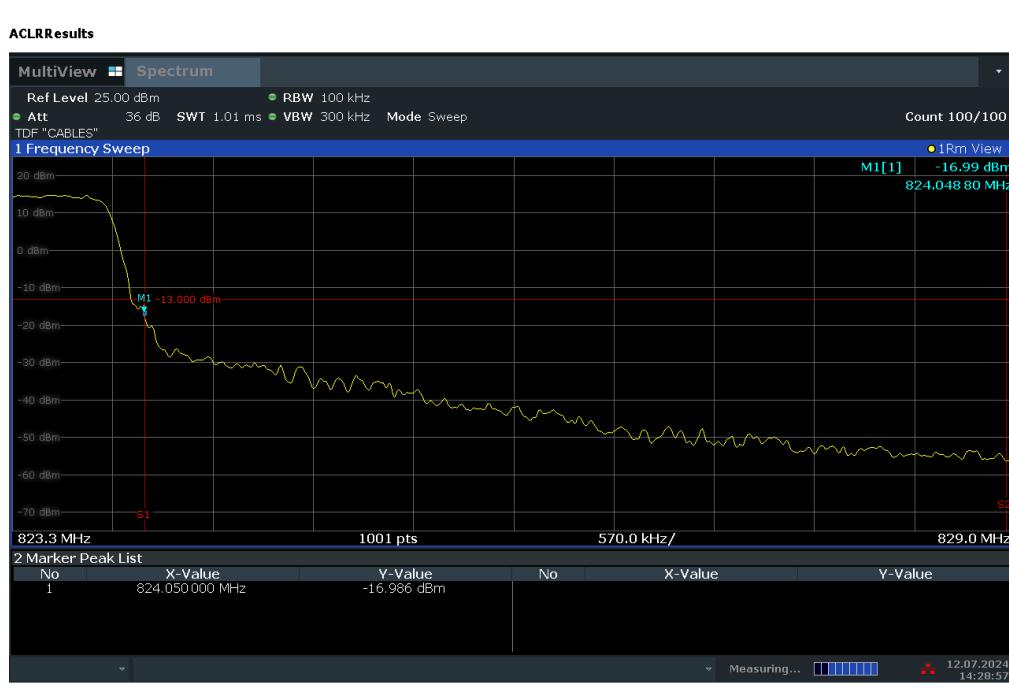


LTE Band 26

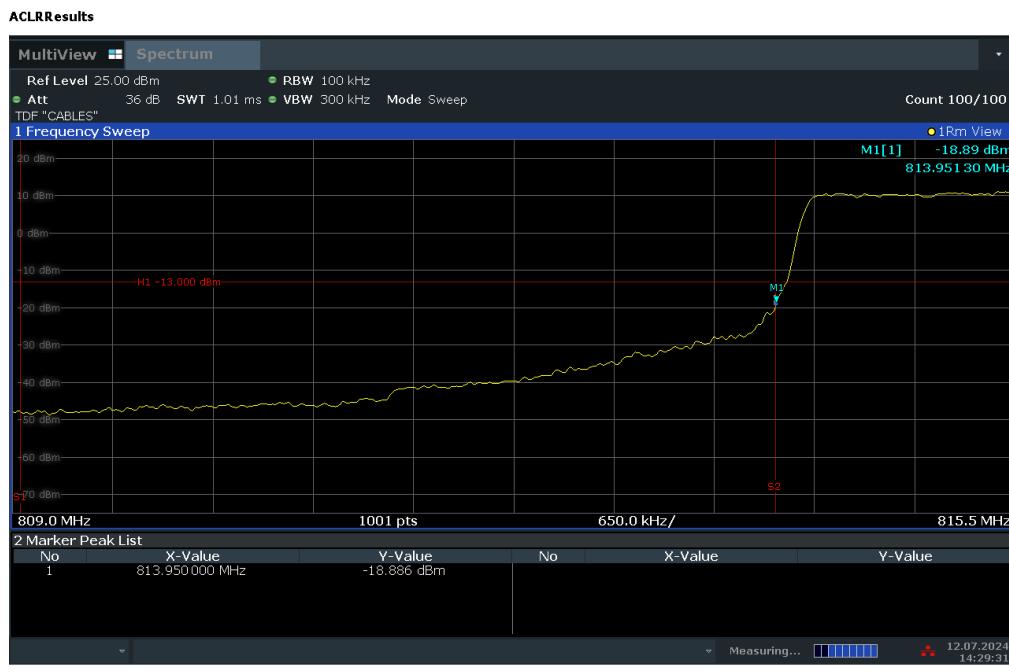


Plot 7-90. Channel Edge Plot (LTE Band 26 – 1.4MHz QPSK – Low Channel)

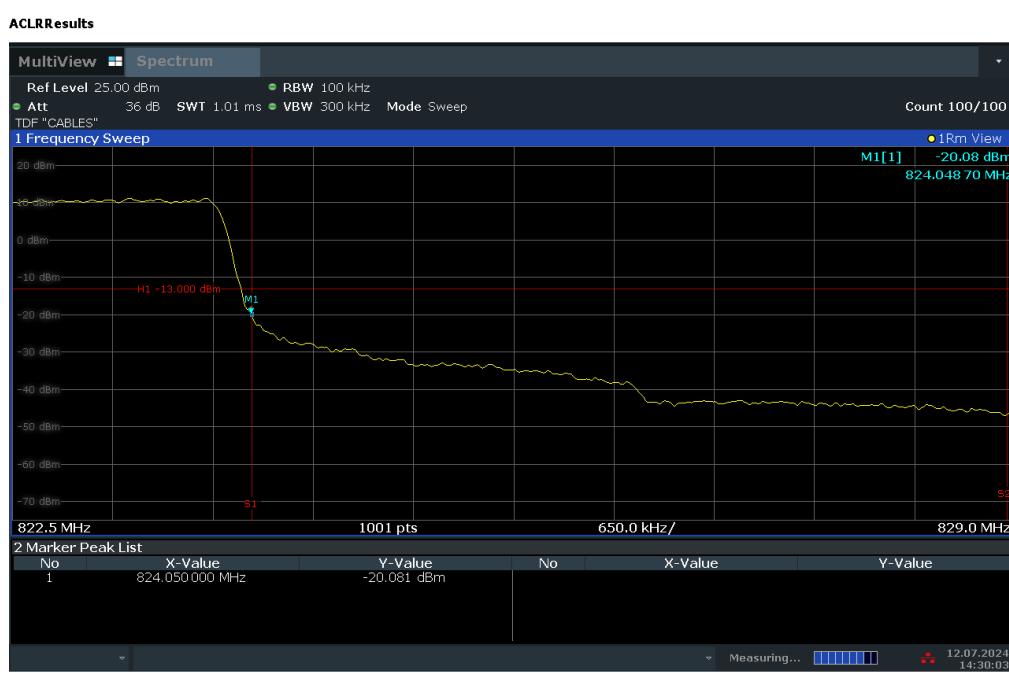


Plot 7-91. Channel Edge Plot (LTE Band 26 – 1.4MHz QPSK – High Channel)

FCC ID: BCGA3267	 element PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 66 of 107

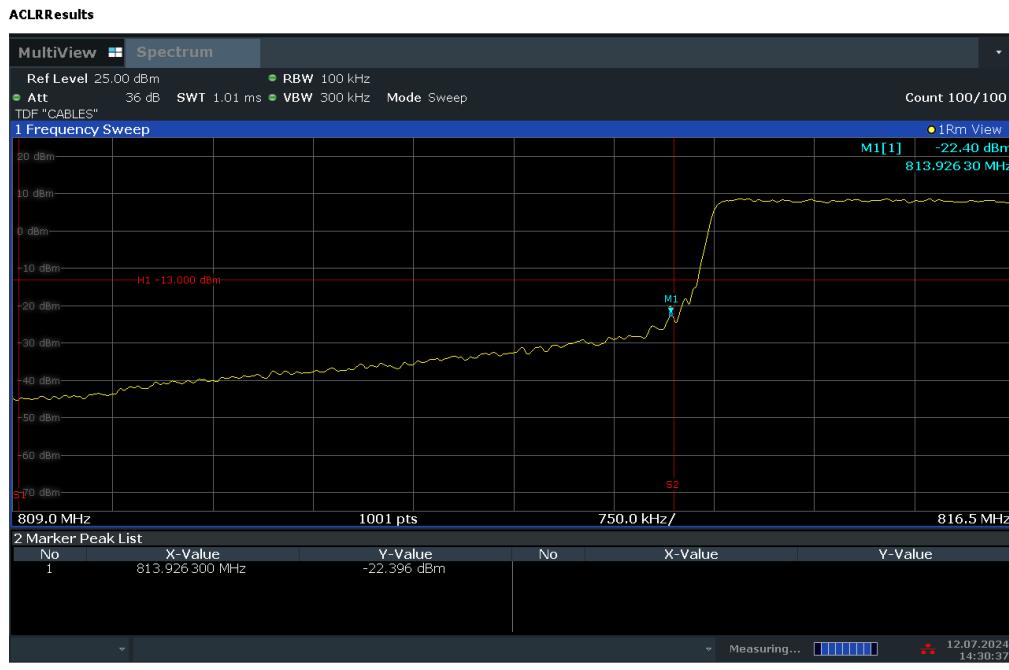


Plot 7-92. Channel Edge Plot (LTE Band 26 - 3MHz QPSK – Low Channel)



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

FCC ID: BCGA3267	 element PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 67 of 107

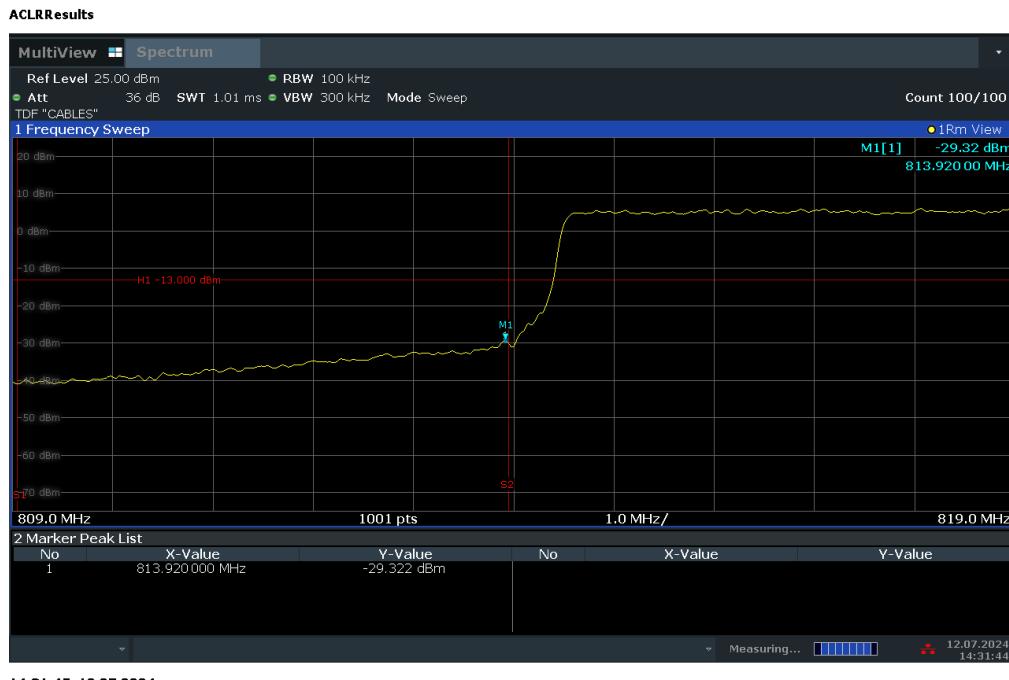


Plot 7-94. Channel Edge Plot (LTE Band 26 - 5MHz QPSK – Low Channel)

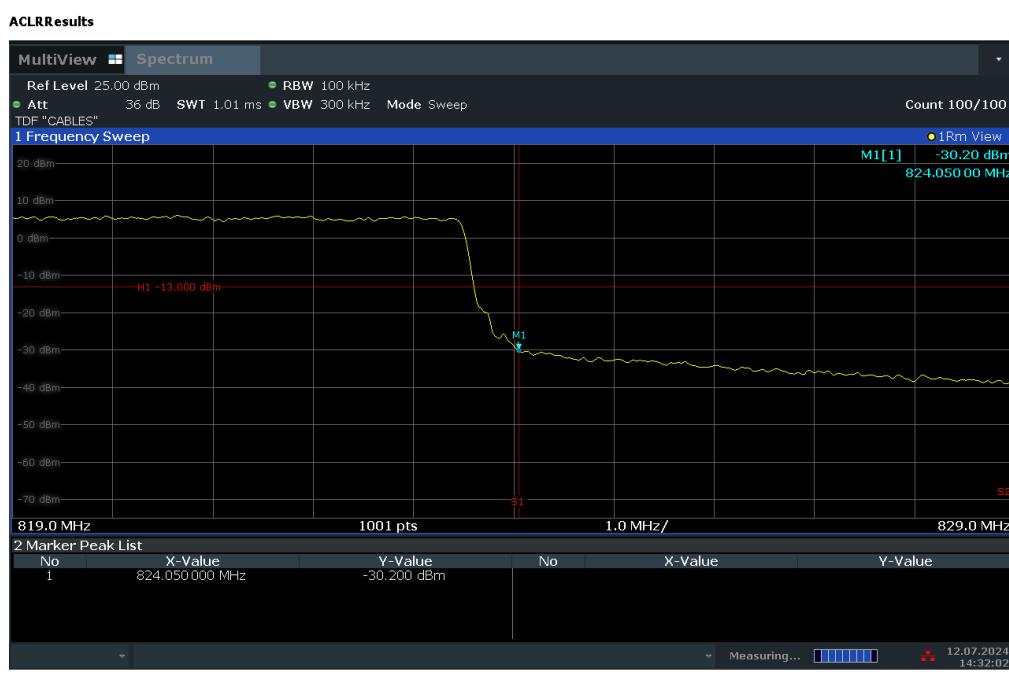


Plot 7-95. Channel Edge Plot (LTE Band 26 - 5MHz QPSK – High Channel)

FCC ID: BCGA3267	 element PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 68 of 107



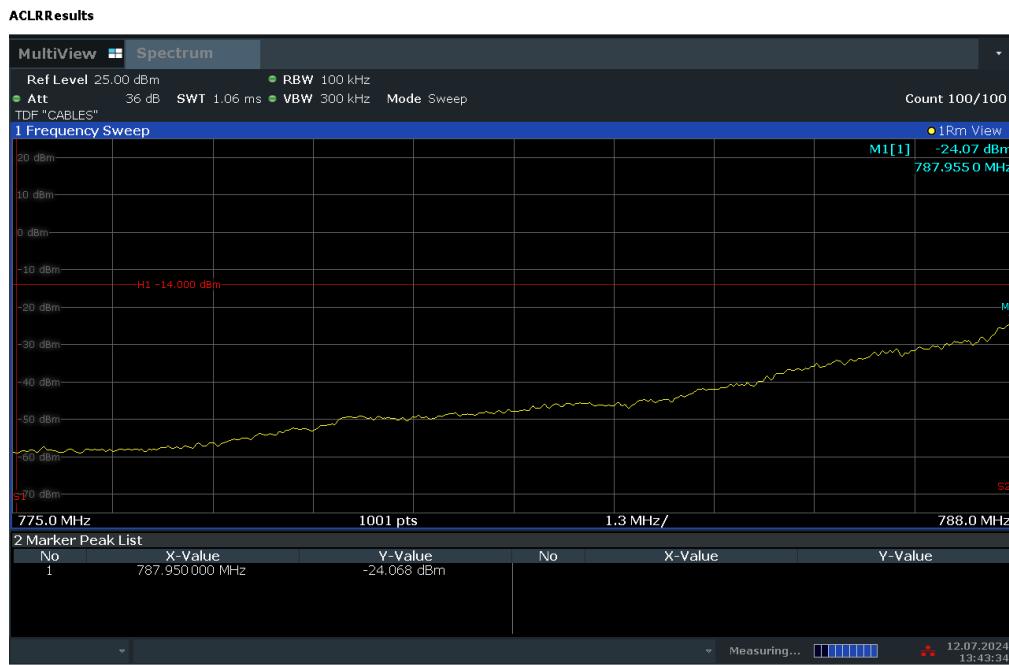
Plot 7-96. Channel Edge Plot (LTE Band 26 - 10MHz QPSK – Low Channel)



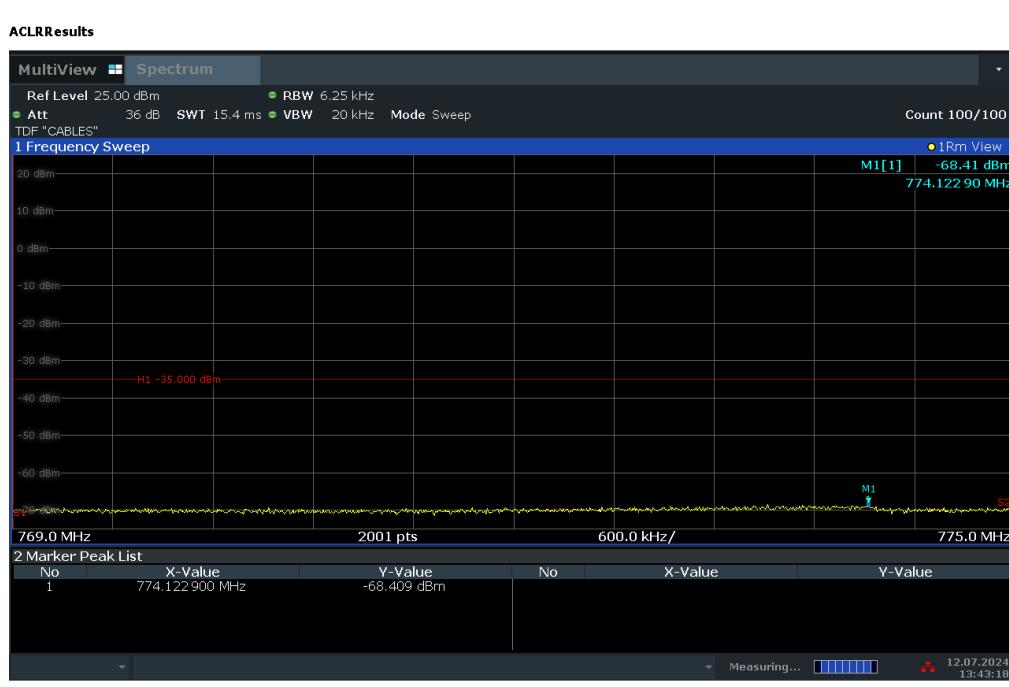
Plot 7-97. Channel Edge Plot (LTE Band 26 - 10MHz QPSK – High Channel)

FCC ID: BCGA3267	 element PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 69 of 107

LTE Band 14

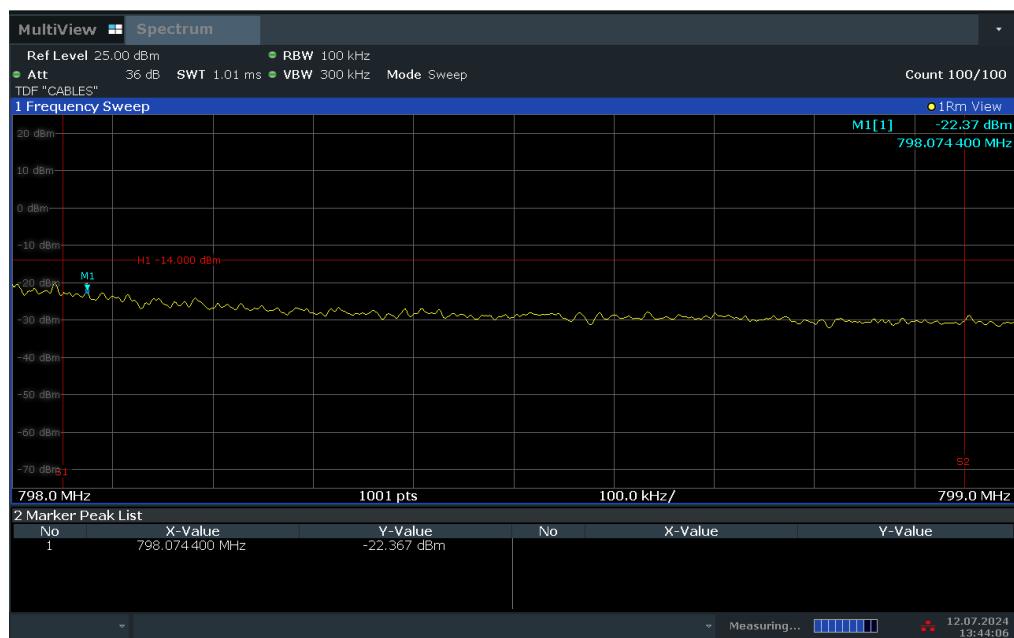
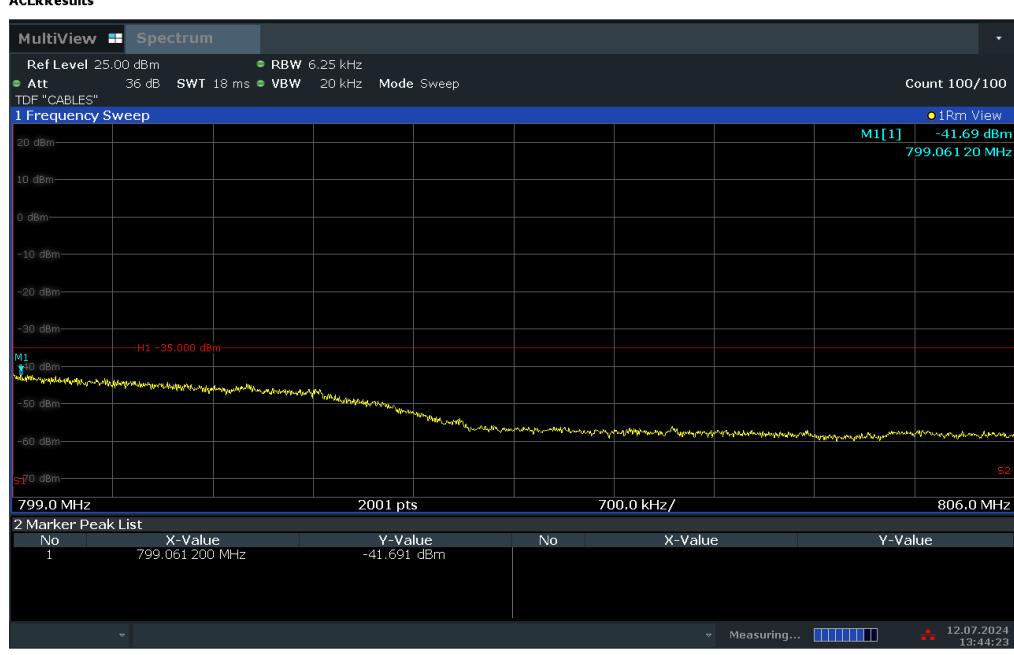


Plot 7-98. Lower Band Edge Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)

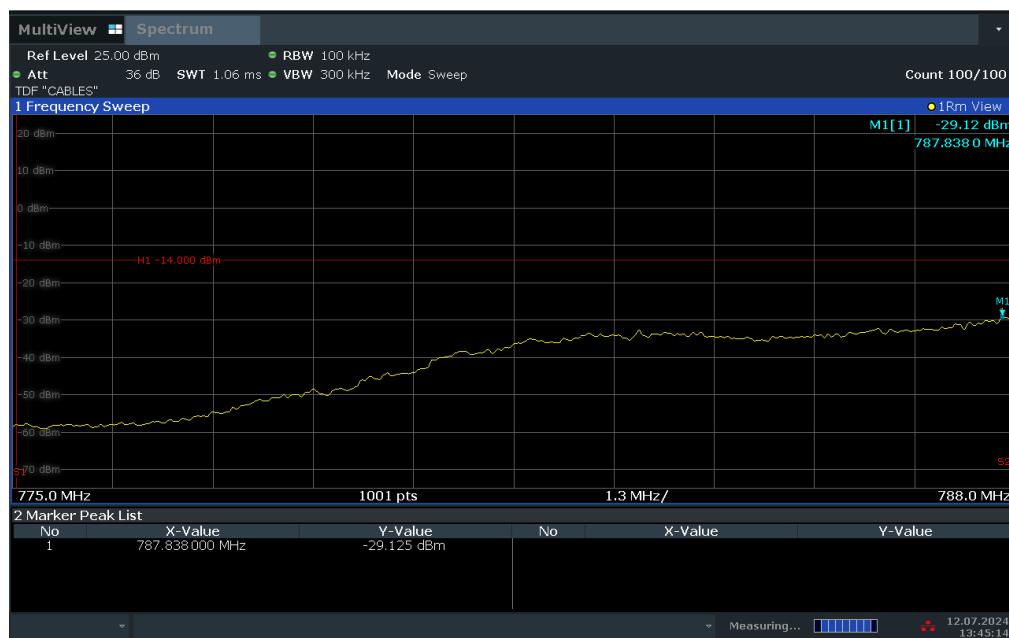


Plot 7-99. Lower Emission Mask Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)

FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 70 of 107

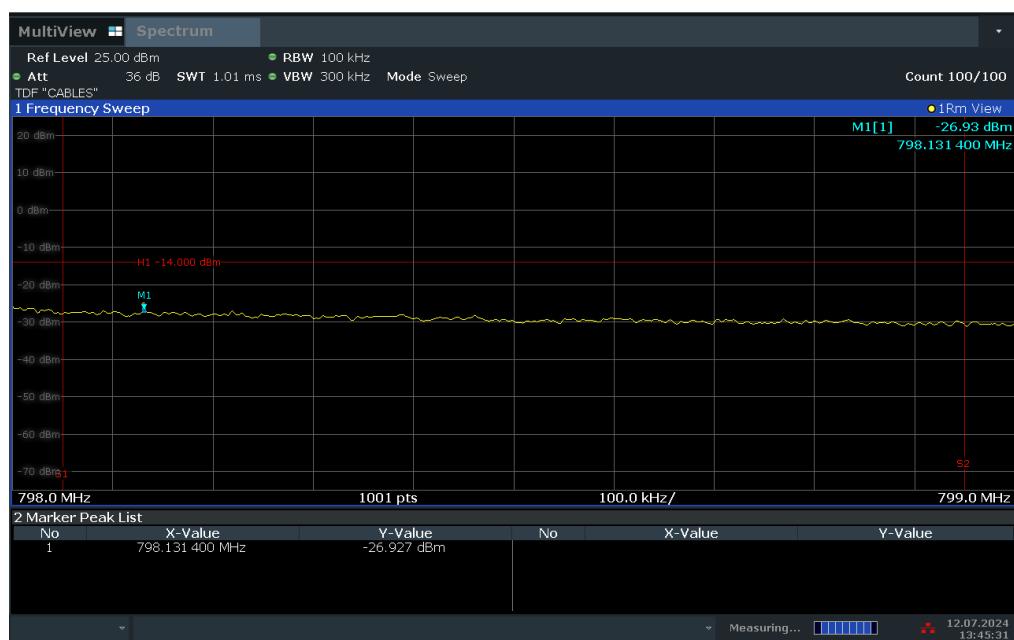
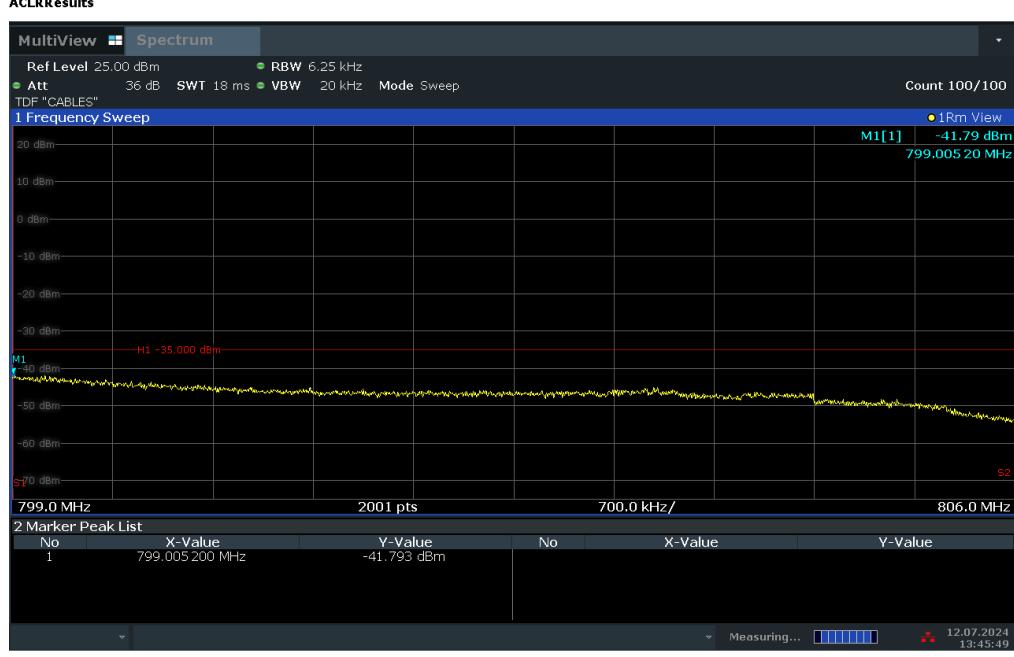
ACLRResults

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: BCGA3267	 element PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 71 of 107

ACLRResults

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

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

FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 72 of 107

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: BCGA3267	 element			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device			Page 73 of 107

NR Band n26

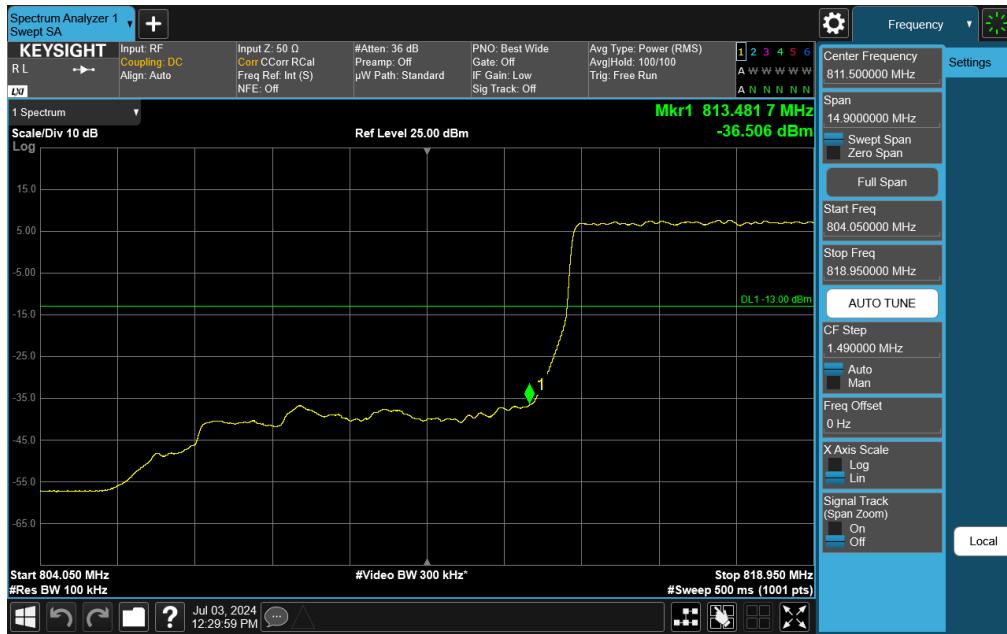


Plot 7-106. Lower Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM $\pi/2$ BPSK – Low Channel)

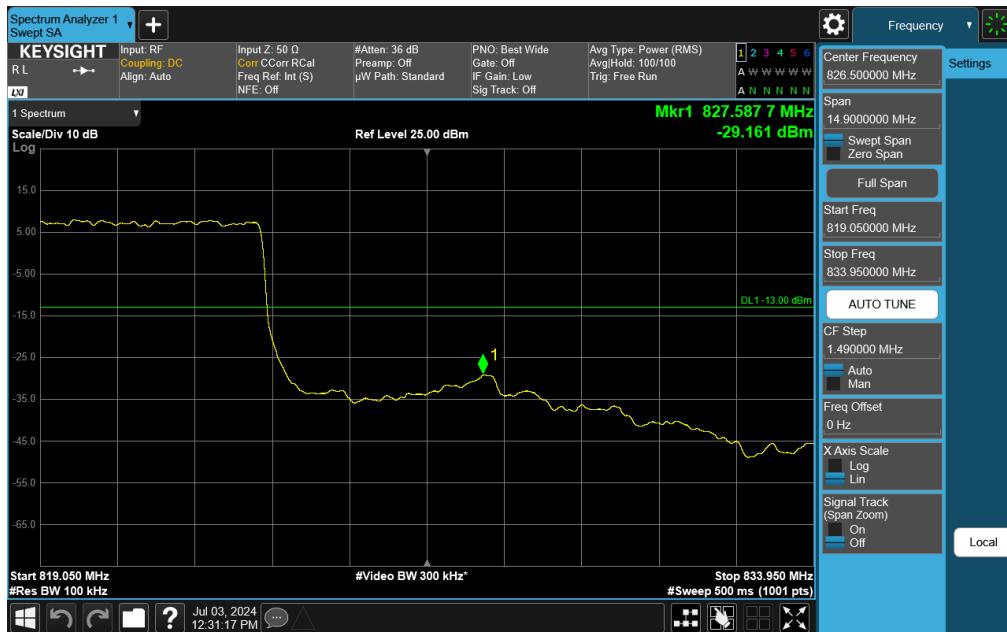


Plot 7-107. Upper Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM $\pi/2$ BPSK – High Channel)

FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device	Page 74 of 107



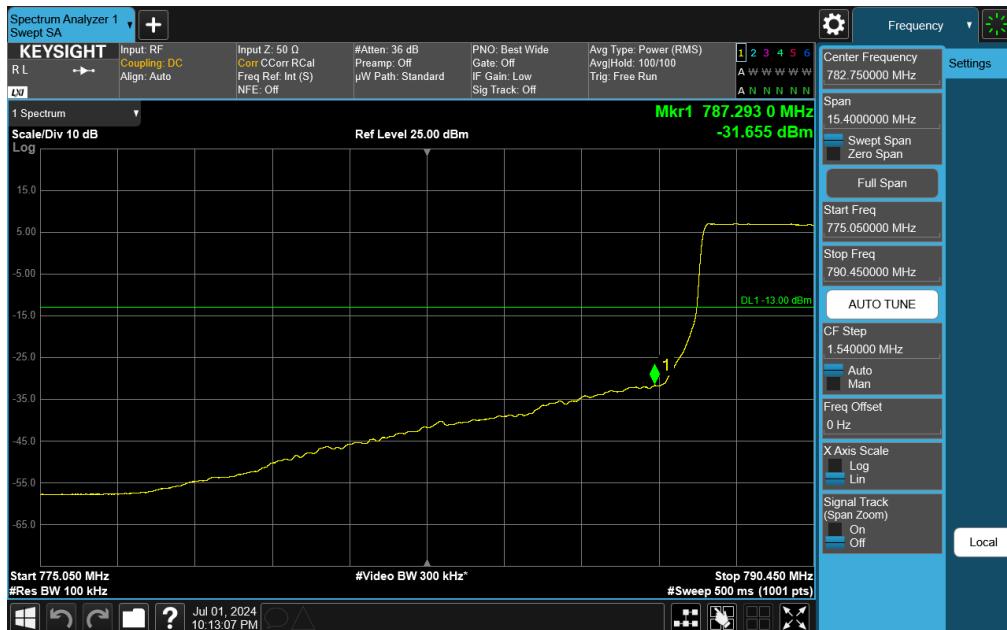
Plot 7-108. Lower Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)



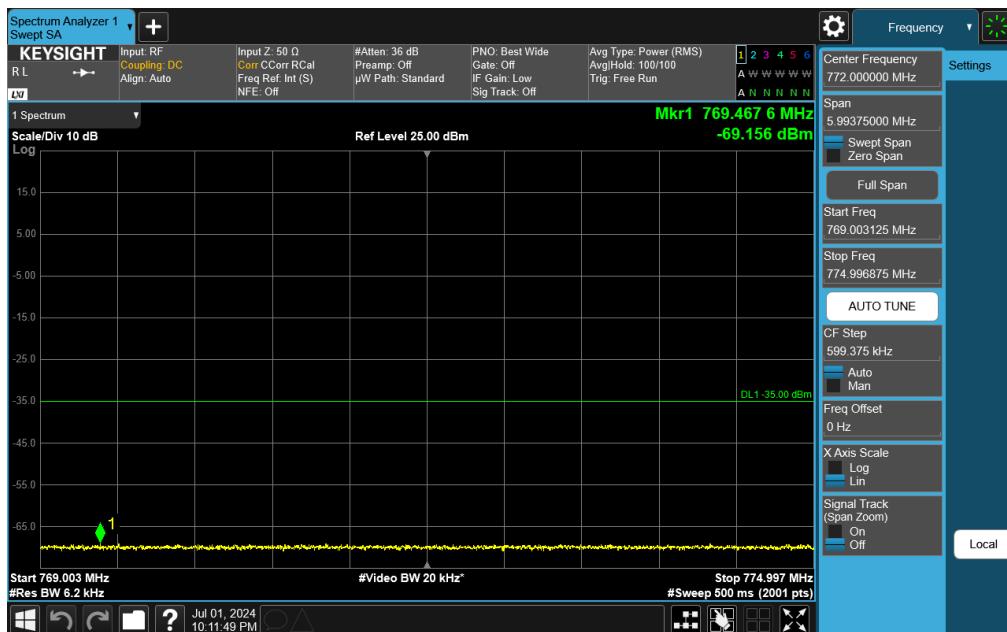
Plot 7-109. Upper Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM $\pi/2$ BPSK – High Channel)

FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 75 of 107

NR Band n14

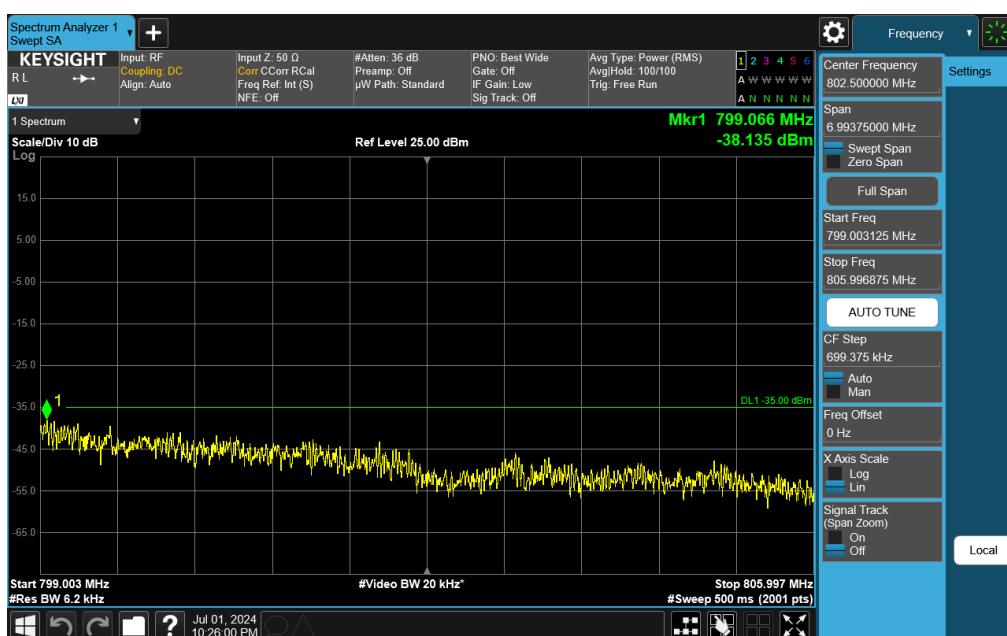
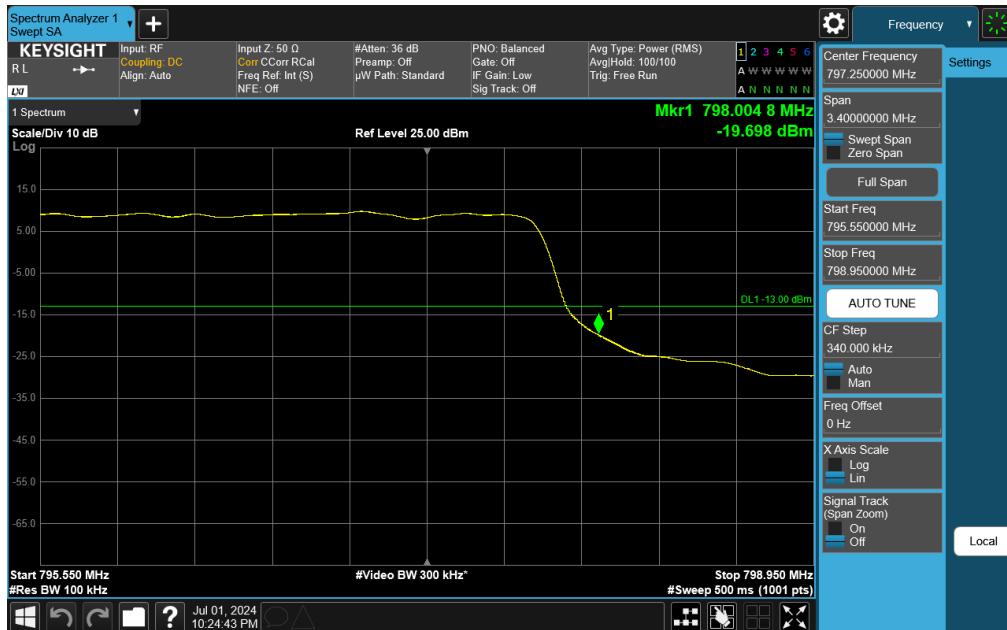


Plot 7-110. Lower Band Edge Plot (NR Band n14 - 5MHz CP-OFDM QPSK – RB Size 25)

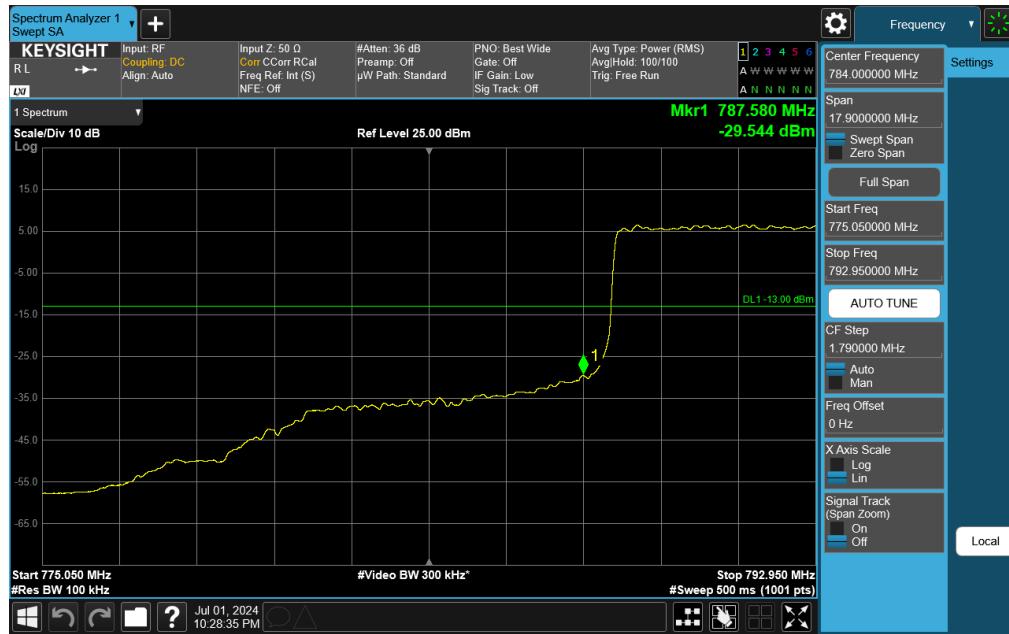


Plot 7-111. Lower Emission Mask Plot (NR Band n14 - 5MHz CP-OFDM QPSK – RB Size 25)

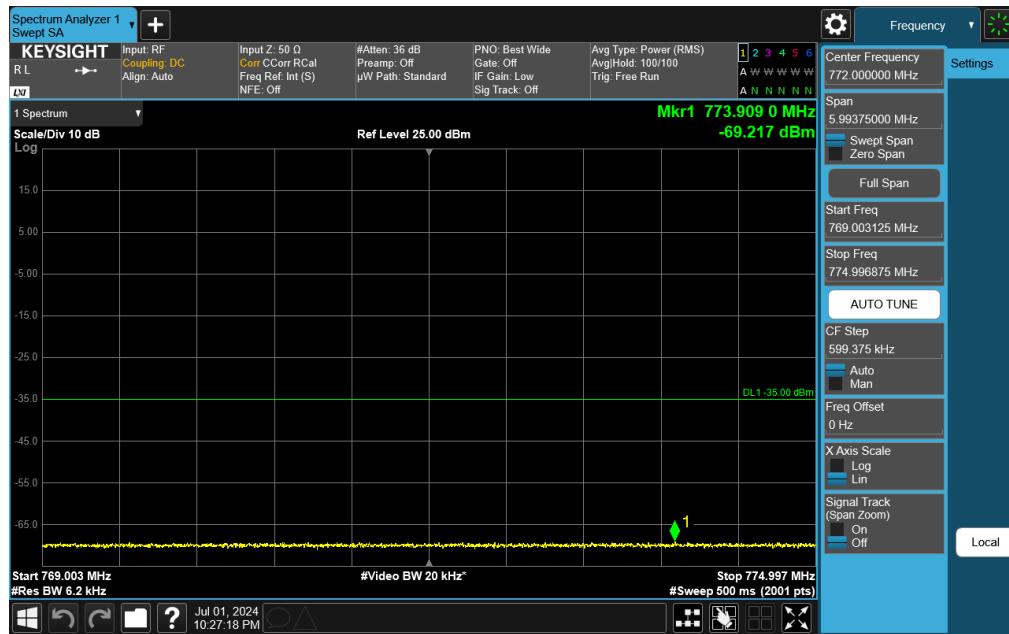
FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device	Page 76 of 107



FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 77 of 107

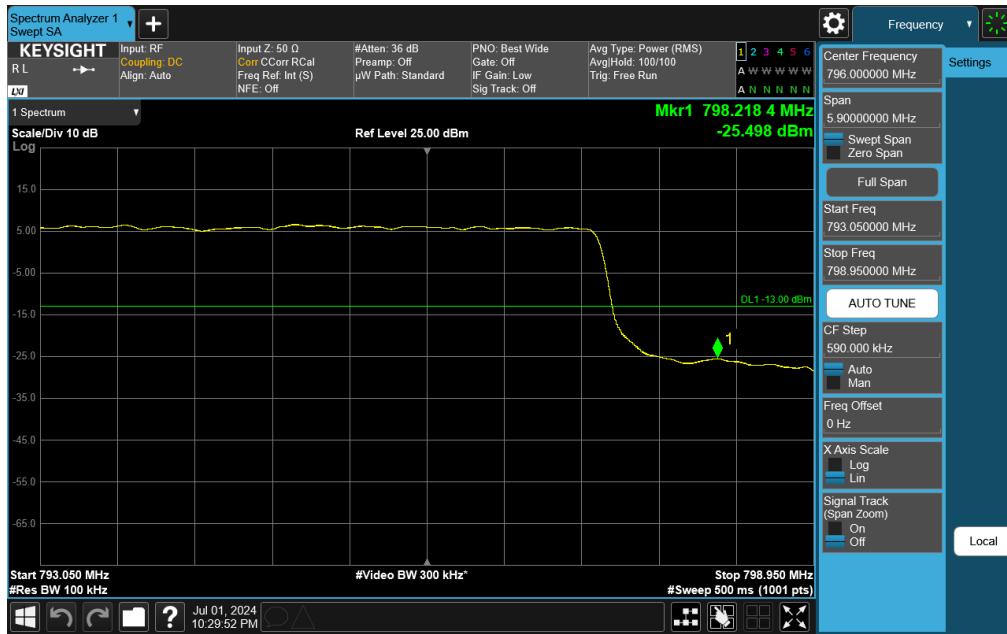


Plot 7-114. Lower Band Edge Plot (NR Band n14 - 10MHz QPSK – RB Size 50)

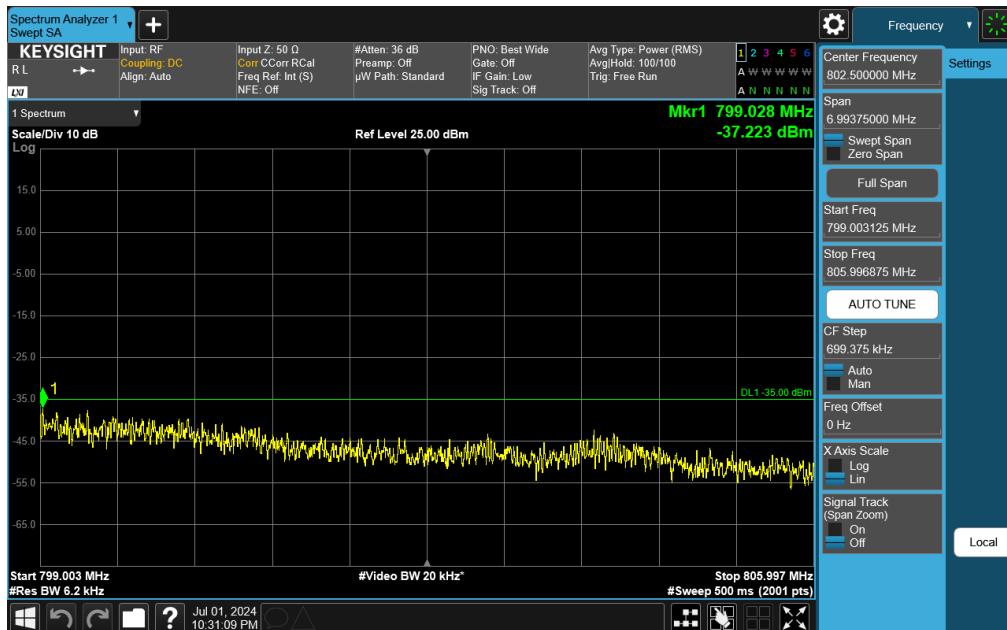


Plot 7-115. Lower Emission Mask Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)

FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	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: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	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.

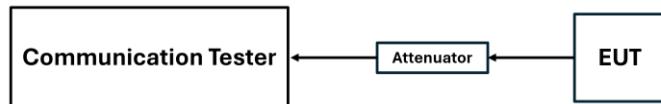


Figure 7-7. LTE Conducted Power Measurement Setup

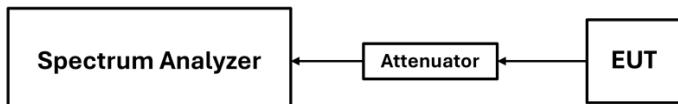


Figure 7-8. FR1 Test Instrument & Measurement Setup

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: BCGA3267	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device	Page 80 of 107

7.5.1 Antenna 4 – Conducted Power

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	26697	814.7	1 / 5	25.63	0.366	50.00	-24.37
		26783	823.3	1 / 5	25.52	0.356	50.00	-24.48
	16-QAM	26783	823.3	1 / 0	24.60	0.288	50.00	-25.40
	64-QAM	26783	823.3	1 / 5	23.72	0.236	50.00	-26.28
	256-QAM	26783	823.3	1 / 0	20.64	0.116	50.00	-29.36
3 MHz	QPSK	26705	815.5	1 / 0	25.70	0.372	50.00	-24.30
		26775	822.5	1 / 7	25.64	0.366	50.00	-24.36
	16-QAM	26775	822.5	1 / 7	24.67	0.293	50.00	-25.33
	64-QAM	26775	822.5	1 / 0	23.56	0.227	50.00	-26.44
	256-QAM	26705	815.5	1 / 0	20.81	0.121	50.00	-29.19
5 MHz	QPSK	26715	816.5	1 / 24	25.37	0.344	50.00	-24.63
		26765	821.5	1 / 12	25.70	0.372	50.00	-24.30
	16-QAM	26715	816.5	1 / 12	24.58	0.287	50.00	-25.42
	64-QAM	26715	816.5	1 / 12	23.71	0.235	50.00	-26.29
	256-QAM	26765	821.5	1 / 12	20.71	0.118	50.00	-29.29
10 MHz	QPSK	26740	819.0	1 / 0	25.54	0.358	50.00	-24.46
	16-QAM	26740	819.0	1 / 25	24.58	0.287	50.00	-25.42
	64-QAM	26740	819.0	1 / 0	23.56	0.227	50.00	-26.44
	256-QAM	26740	819.0	1 / 49	20.74	0.119	50.00	-29.26

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

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	23305	816.5	1 / 1	25.57	0.361	50.00	-24.43
		23330	819.0	1 / 1	25.70	0.372	50.00	-24.30
		23355	821.5	1 / 12	25.62	0.365	50.00	-24.38
	QPSK	23305	816.5	1 / 1	25.68	0.370	50.00	-24.32
		23330	819.0	1 / 12	25.66	0.368	50.00	-24.34
		23355	821.5	1 / 1	25.50	0.355	50.00	-24.50
	16-QAM	23330	819.0	1 / 23	24.64	0.291	50.00	-25.36
	64-QAM	23355	821.5	1 / 12	23.62	0.230	50.00	-26.38
	256-QAM	23355	821.5	1 / 12	20.71	0.118	50.00	-29.29
10 MHz	π/2 BPSK	23330	819.0	1 / 1	25.70	0.372	50.00	-24.30
	QPSK	23330	819.0	1 / 1	25.31	0.340	50.00	-24.69
	16-QAM	23330	819.0	1 / 50	24.36	0.273	50.00	-25.64
	64-QAM	23330	819.0	1 / 25	23.43	0.220	50.00	-26.57
	256-QAM	23330	819.0	1 / 1	20.77	0.119	50.00	-29.23

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

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device			

7.5.2 Antenna 3b – Conducted Power

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	26697	814.7	1 / 3	25.07	0.321	50.00	-24.93
		26783	823.3	1 / 5	25.01	0.317	50.00	-24.99
	16-QAM	26697	814.7	1 / 5	24.14	0.259	50.00	-25.86
	64-QAM	26783	823.3	1 / 5	23.24	0.211	50.00	-26.76
	256-QAM	26783	823.3	1 / 3	20.33	0.108	50.00	-29.67
3 MHz	QPSK	26705	815.5	1 / 14	25.15	0.327	50.00	-24.85
		26775	822.5	1 / 7	24.81	0.303	50.00	-25.19
	16-QAM	26775	822.5	1 / 7	24.20	0.263	50.00	-25.80
	64-QAM	26775	822.5	1 / 14	23.16	0.207	50.00	-26.84
	256-QAM	26775	822.5	1 / 14	20.17	0.104	50.00	-29.83
5 MHz	QPSK	26715	816.5	1 / 12	25.15	0.327	50.00	-24.85
		26765	821.5	1 / 12	25.19	0.330	50.00	-24.81
	16-QAM	26715	816.5	1 / 24	24.21	0.264	50.00	-25.79
	64-QAM	26765	821.5	1 / 24	23.17	0.207	50.00	-26.83
	256-QAM	26765	821.5	1 / 12	20.31	0.107	50.00	-29.69
10 MHz	QPSK	26740	819.0	1 / 0	25.20	0.331	50.00	-24.80
	16-QAM	26740	819.0	1 / 0	24.12	0.258	50.00	-25.88
	64-QAM	26740	819.0	1 / 0	23.18	0.208	50.00	-26.82
	256-QAM	26740	819.0	1 / 0	20.20	0.105	50.00	-29.80

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

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	23305	816.5	1 / 1	25.09	0.323	50.00	-24.91
		23330	819.0	1 / 1	25.20	0.331	50.00	-24.80
		23355	821.5	1 / 23	25.02	0.318	50.00	-24.98
	QPSK	23305	816.5	1 / 23	25.08	0.322	50.00	-24.92
		23330	819.0	1 / 23	25.14	0.327	50.00	-24.86
		23355	821.5	1 / 1	25.10	0.324	50.00	-24.90
	16-QAM	23305	816.5	1 / 12	24.19	0.262	50.00	-25.81
	64-QAM	23330	819.0	1 / 23	23.18	0.208	50.00	-26.82
	256-QAM	23330	819.0	1 / 12	20.28	0.107	50.00	-29.72
10 MHz	π/2 BPSK	23330	819.0	1 / 1	25.06	0.321	50.00	-24.94
	QPSK	23330	819.0	1 / 25	25.08	0.322	50.00	-24.92
	16-QAM	23330	819.0	1 / 1	23.86	0.243	50.00	-26.14
	64-QAM	23330	819.0	1 / 50	23.10	0.204	50.00	-26.90
	256-QAM	23330	819.0	1 / 1	20.03	0.101	50.00	-29.97

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

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	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)

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Test Setup

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

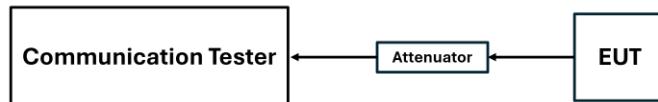


Figure 7-9. LTE ERP Measurement Setup

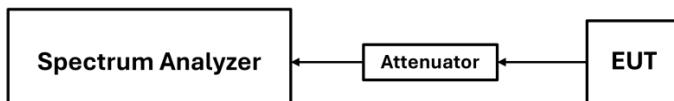


Figure 7-10. FR1 ERP Measurement Setup

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.

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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	-1.30	1 / 0	25.49	22.04	0.160	34.77	-12.73
		793.0	-1.30	1 / 24	25.55	22.10	0.162	34.77	-12.67
		795.5	-1.30	1 / 24	25.69	22.24	0.167	34.77	-12.53
	16-QAM	795.5	-1.30	1 / 12	24.76	21.31	0.135	34.77	-13.46
	64-QAM	790.5	-1.30	1 / 24	23.79	20.34	0.108	34.77	-14.43
	256-QAM	793.0	-1.30	1 / 24	20.86	17.41	0.055	34.77	-17.36
	QPSK	793.0	-1.30	1 / 0	25.53	22.08	0.161	34.77	-12.69
	16-QAM	793.0	-1.30	1 / 49	24.57	21.12	0.129	34.77	-13.65
	64-QAM	793.0	-1.30	1 / 0	23.46	20.01	0.100	34.77	-14.76
10 MHz	256-QAM	793.0	-1.30	1 / 25	20.83	17.38	0.055	34.77	-17.39

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	π/2 BPSK	790.5	-1.30	1 / 23	25.67	22.22	0.167	34.77	-12.55
		793.0	-1.30	1 / 12	25.70	22.25	0.168	34.77	-12.52
		795.5	-1.30	1 / 23	25.55	22.10	0.162	34.77	-12.67
	QPSK	790.5	-1.30	1 / 23	25.59	22.14	0.164	34.77	-12.63
		793.0	-1.30	1 / 1	25.56	22.11	0.163	34.77	-12.66
		795.5	-1.30	1 / 23	25.50	22.05	0.160	34.77	-12.72
	16-QAM	795.5	-1.30	1 / 12	24.70	21.25	0.133	34.77	-13.52
	64-QAM	793.0	-1.30	1 / 23	23.71	20.26	0.106	34.77	-14.51
	256-QAM	793.0	-1.30	1 / 23	20.81	17.36	0.054	34.77	-17.41
10 MHz	π/2 BPSK	793.0	-1.30	1 / 50	25.70	22.25	0.168	34.77	-12.52
	QPSK	793.0	-1.30	1 / 25	25.64	22.19	0.166	34.77	-12.58
	16-QAM	793.0	-1.30	1 / 50	24.62	21.17	0.131	34.77	-13.60
	64-QAM	793.0	-1.30	1 / 25	23.68	20.23	0.105	34.77	-14.54
	256-QAM	793.0	-1.30	1 / 50	20.75	17.30	0.054	34.77	-17.47

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

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Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device				

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7.6.2 Antenna 3b - 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	-2.10	1 / 12	25.18	20.93	0.124	34.77	-13.84
		793.0	-2.10	1 / 12	25.07	20.82	0.121	34.77	-13.95
		795.5	-2.10	1 / 0	25.14	20.89	0.123	34.77	-13.88
	16-QAM	793.0	-2.10	1 / 24	24.25	20.00	0.100	34.77	-14.77
	64-QAM	790.5	-2.10	1 / 12	23.25	19.00	0.079	34.77	-15.77
	256-QAM	793.0	-2.10	1 / 12	20.28	16.03	0.040	34.77	-18.74
	QPSK	793.0	-2.10	1 / 49	25.06	20.81	0.121	34.77	-13.96
	16-QAM	793.0	-2.10	1 / 25	24.18	19.93	0.098	34.77	-14.84
	64-QAM	793.0	-2.10	1 / 0	23.16	18.91	0.078	34.77	-15.86
10 MHz	256-QAM	793.0	-2.10	1 / 0	19.98	15.73	0.037	34.77	-19.04

Table 7-8. Antenna 3b 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	-2.10	1 / 12	25.18	20.93	0.124	34.77	-13.84
		793.0	-2.10	1 / 1	25.08	20.83	0.121	34.77	-13.94
		795.5	-2.10	1 / 23	25.12	20.87	0.122	34.77	-13.90
	QPSK	790.5	-2.10	1 / 12	25.04	20.79	0.120	34.77	-13.98
		793.0	-2.10	1 / 23	25.20	20.95	0.124	34.77	-13.82
		795.5	-2.10	1 / 23	25.14	20.89	0.123	34.77	-13.88
	16-QAM	793.0	-2.10	1 / 12	24.01	19.76	0.095	34.77	-15.01
	64-QAM	793.0	-2.10	1 / 1	23.22	18.97	0.079	34.77	-15.80
	256-QAM	790.5	-2.10	1 / 23	20.31	16.06	0.040	34.77	-18.71
	$\pi/2$ BPSK	793.0	-2.10	1 / 50	25.14	20.89	0.123	34.77	-13.88
10 MHz	QPSK	793.0	-2.10	1 / 25	25.10	20.85	0.122	34.77	-13.92
	16-QAM	793.0	-2.10	1 / 50	24.16	19.91	0.098	34.77	-14.86
	64-QAM	793.0	-2.10	1 / 50	23.27	19.02	0.080	34.77	-15.75
	256-QAM	793.0	-2.10	1 / 25	20.27	16.02	0.040	34.77	-18.75

Table 7-9. Antenna 3b ERP Data (NR Band n14)

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device				

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7.7 Radiated Spurious Emissions

§2.1053 §90.691(a) §90.543(e) §90.543(f)

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: BCGA3267	 element			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Test Setup

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

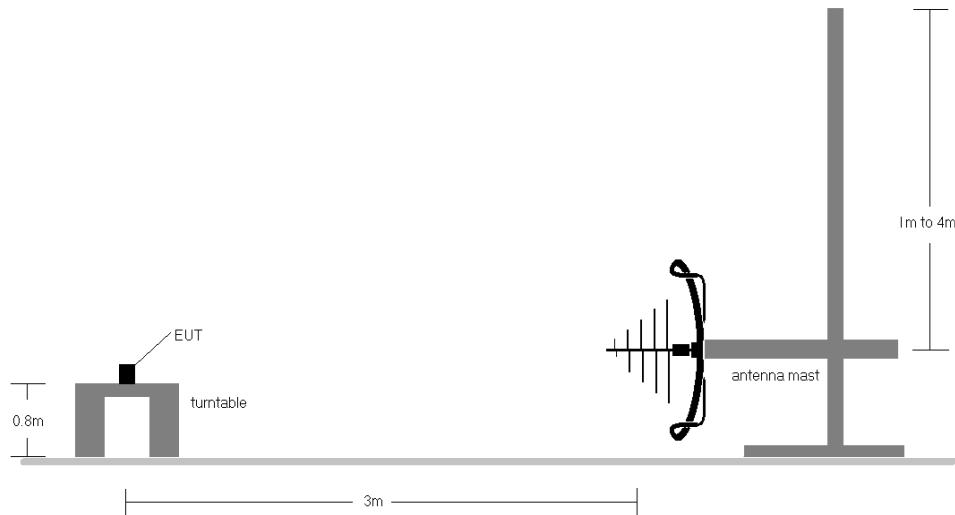


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

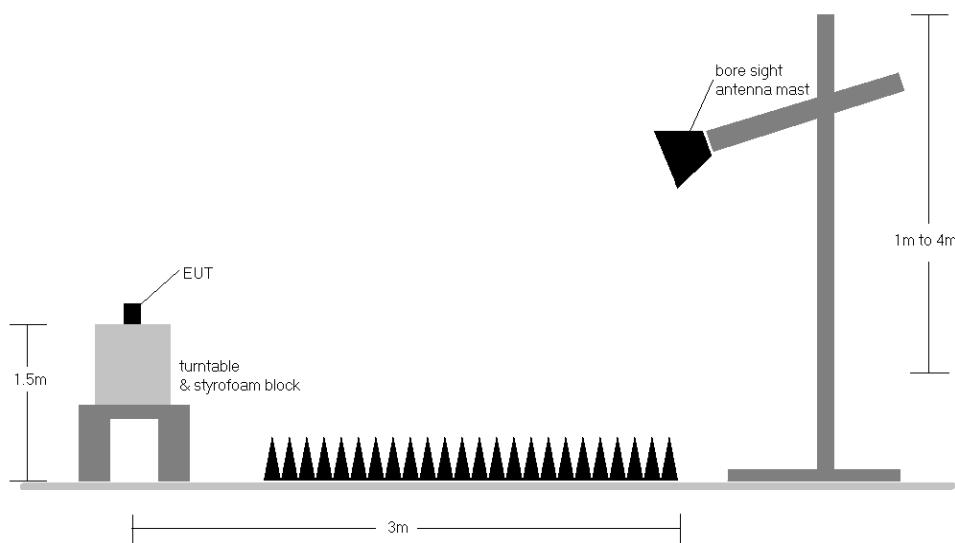


Figure 7-12. Test Instrument & Measurement Setup >1 GHz

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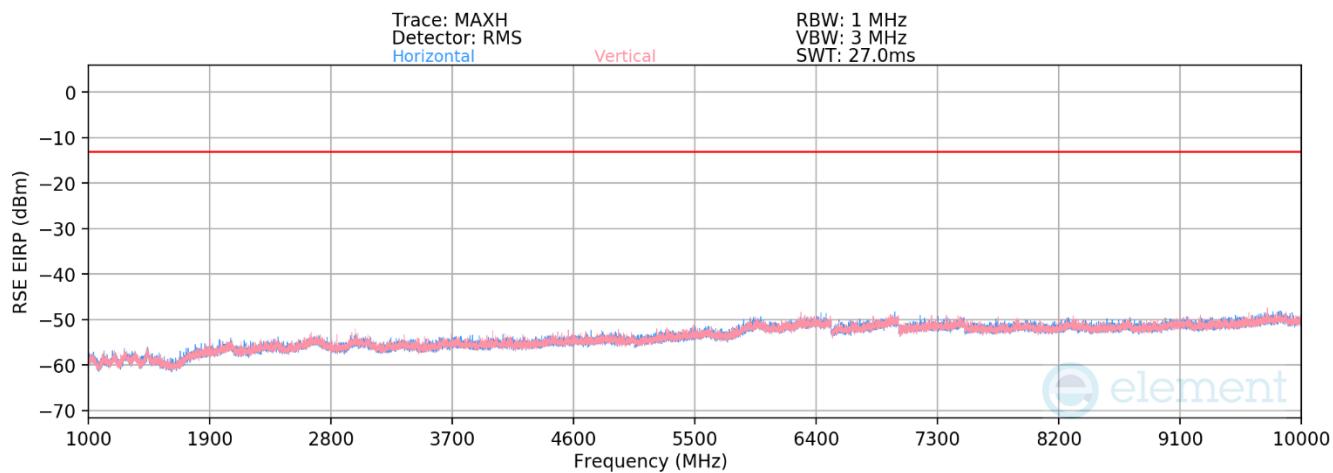
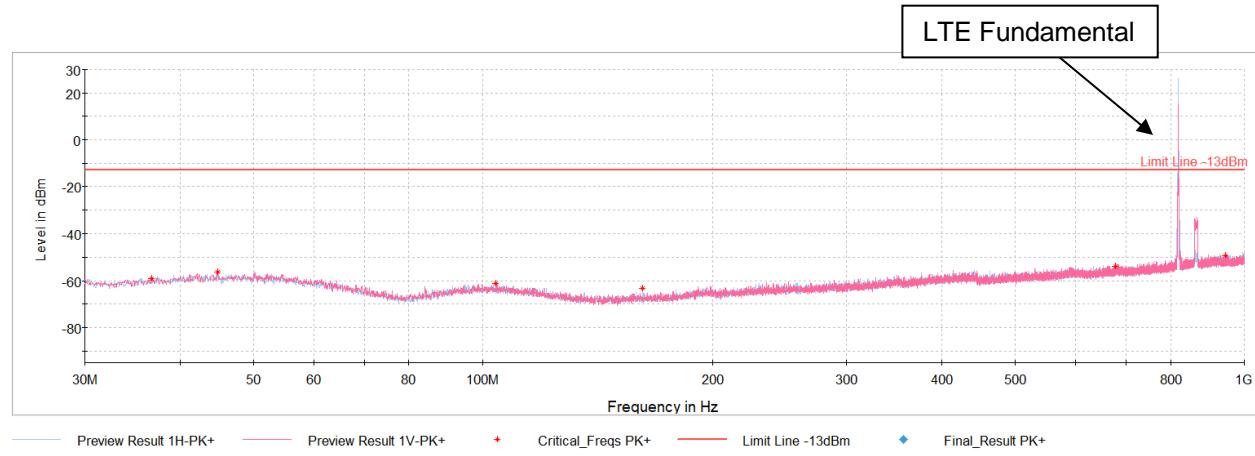
Test Notes

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.

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7.7.1 Antenna 4 – Radiated Spurious Emission Measurements

LTE Band 26



FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 90 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-73.25	-5.85	27.90	-67.36	-13.00	-54.36
2449.5	H	-	-	-74.12	-0.38	32.50	-62.76	-13.00	-49.76
3266.0	H	-	-	-75.45	1.55	33.10	-62.16	-13.00	-49.16

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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	H	-	-	-73.11	-5.85	28.04	-67.22	-13.00	-54.22
2457.0	H	-	-	-74.16	-0.38	32.46	-62.79	-13.00	-49.79
3276.0	H	-	-	-75.91	2.05	33.14	-62.11	-13.00	-49.11

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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-72.63	-5.37	29.00	-66.26	-13.00	-53.26
2464.5	H	-	-	-74.30	-0.46	32.23	-63.03	-13.00	-50.03
3286.0	H	-	-	-75.72	2.05	33.34	-61.92	-13.00	-48.92

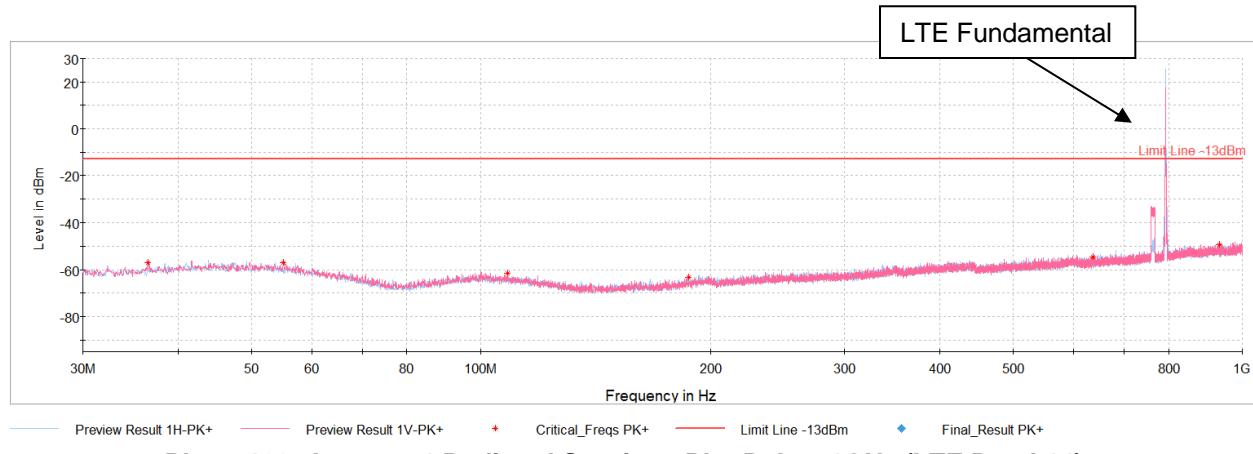
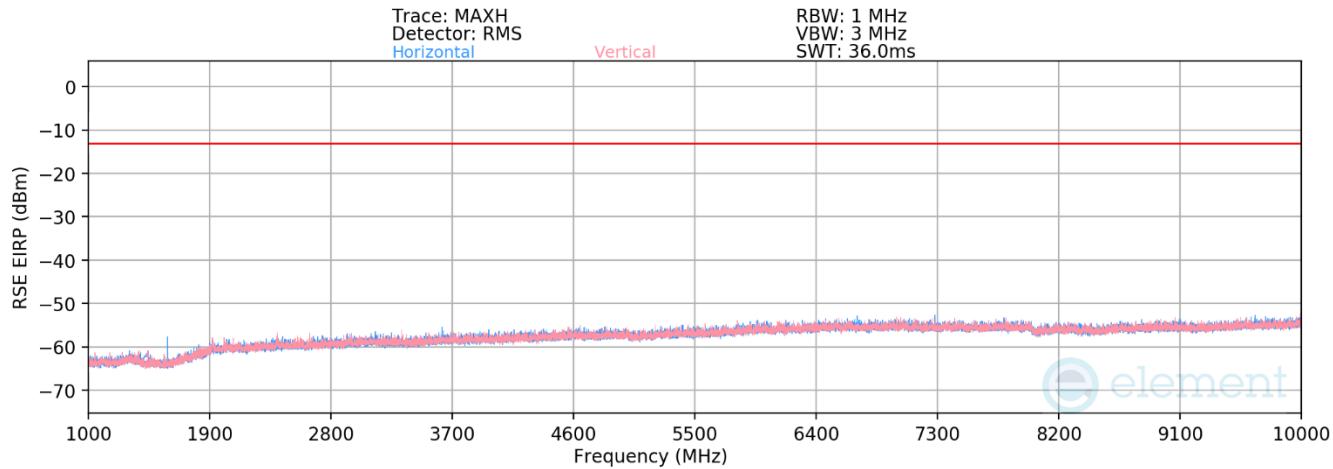
Table 7-12. Antenna 4 Radiated Spurious Data (LTE Band 26 – High Channel)

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device					

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LTE Band 14

Plot 7-120. Antenna 4 Radiated Spurious Plot Below 1GHz (LTE Band 14)

Plot 7-121. Antenna 4 Radiated Spurious Plot Above 1GHz (LTE Band 14)

FCC ID: BCGA3267	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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	H	-	-	-74.23	-6.54	26.23	-69.03	-40.00	-29.03
2371.5	V	-	-	-74.98	-2.13	29.89	-65.37	-13.00	-52.37
3162.0	H	-	-	-75.75	-0.39	30.86	-64.40	-13.00	-51.40

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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	H	204	333	-68.41	-6.41	32.18	-63.08	-40.00	-23.08
2379.0	V	-	-	-74.78	-1.99	30.23	-65.03	-13.00	-52.03
3172.0	V	-	-	-75.65	-0.24	31.11	-64.15	-13.00	-51.15
3965.0	H	-	-	-76.22	0.98	31.76	-63.50	-13.00	-50.50

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

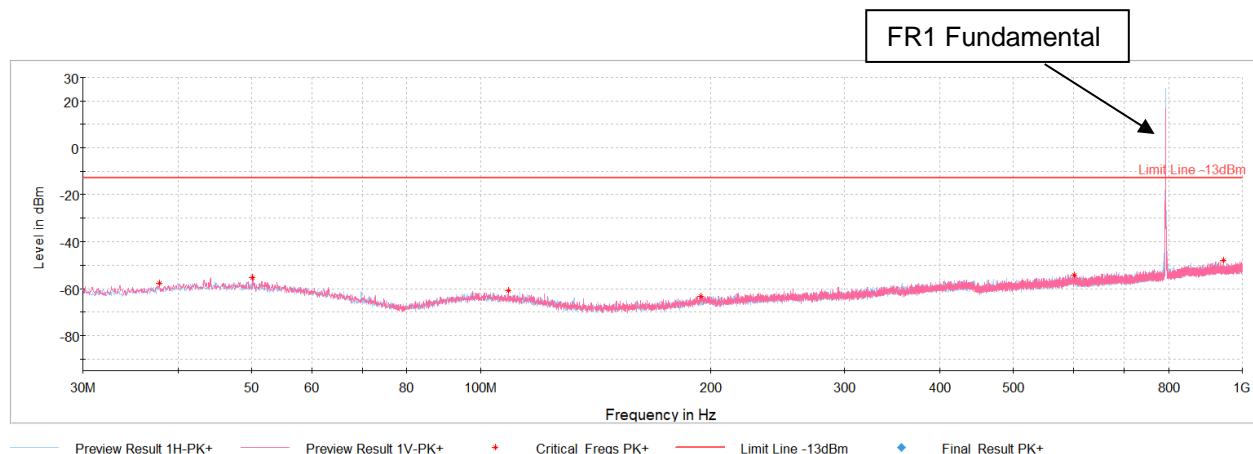
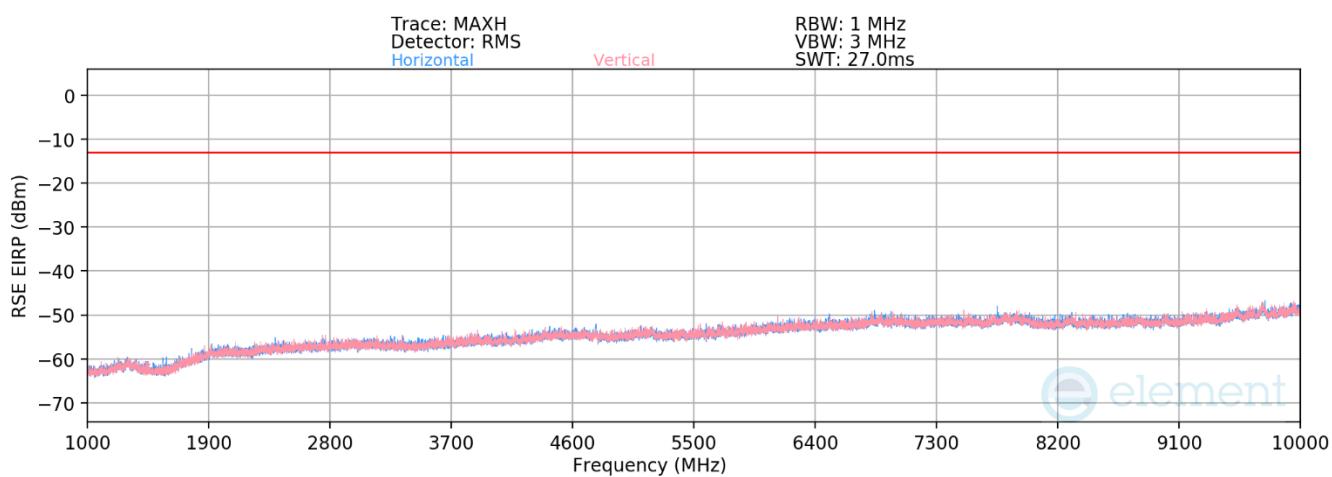
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	250	347	-69.92	-6.41	30.67	-64.59	-40.00	-24.59
2386.5	V	-	-	-74.89	-1.99	30.12	-65.14	-13.00	-52.14
3182.0	H	-	-	-75.72	-0.24	31.04	-64.22	-13.00	-51.22
3977.5	H	-	-	-76.31	1.02	31.71	-63.55	-13.00	-50.55

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

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device				

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NR Band n14

Plot 7-122. Antenna 3b Radiated Spurious Plot Below 1GHz (NR Band n14)

Plot 7-123. Antenna 3b Radiated Spurious Plot Above 1GHz (NR Band n14)

FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 94 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	H	-	-	-77.82	-2.99	26.19	-69.07	-40.00	-29.07
2371.5	H	-	-	-77.91	2.19	31.27	-63.98	-13.00	-50.98
3162.0	H	-	-	-78.85	4.04	32.20	-63.06	-13.00	-50.06

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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	H	-	-	-77.79	-2.99	26.22	-69.04	-40.00	-29.04
2379.0	H	-	-	-78.26	2.42	31.16	-64.09	-13.00	-51.09
3172.0	H	-	-	-78.93	4.04	32.12	-63.14	-13.00	-50.14

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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-77.99	-2.83	26.18	-69.07	-40.00	-29.07
2386.5	H	-	-	-77.88	2.42	31.54	-63.72	-13.00	-50.72
3182.0	H	-	-	-78.83	4.04	32.22	-63.04	-13.00	-50.04

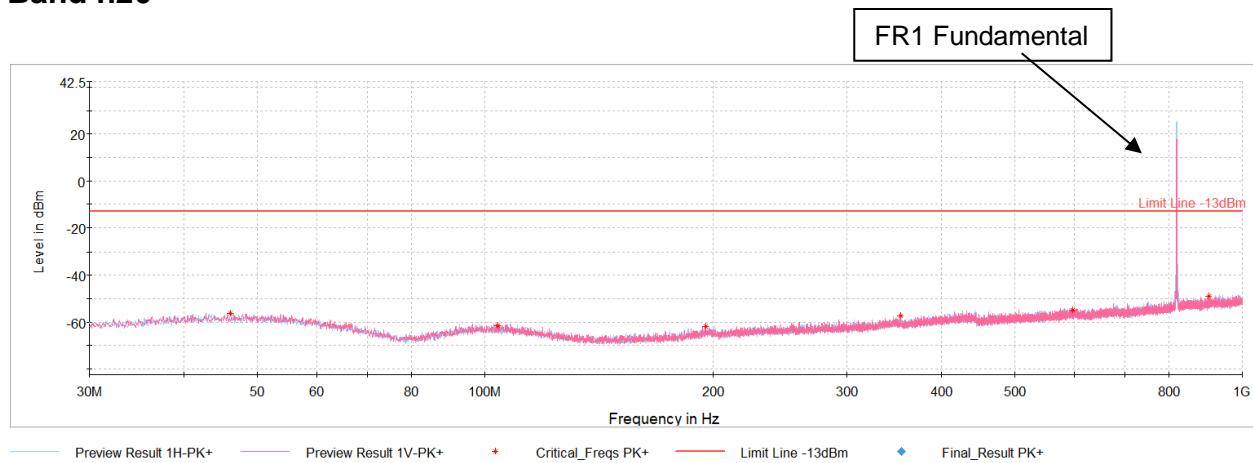
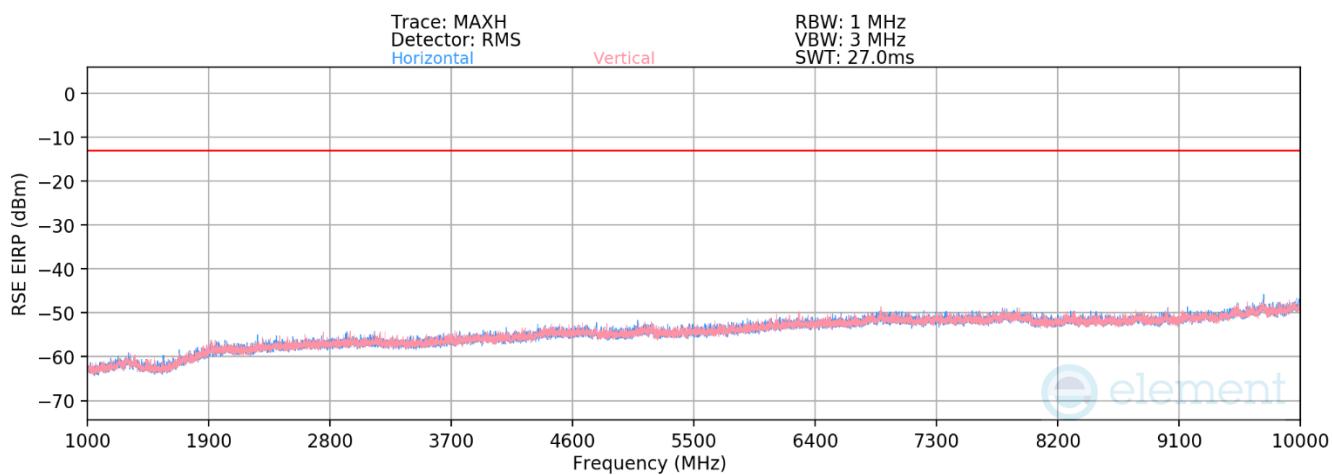
Table 7-18. Antenna 4 Radiated Spurious Data (NR Band n14 – High Channel)

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device					

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NR Band n26

Plot 7-124. Antenna 4 Radiated Spurious Plot Below 1GHz (NR Band n26)

Plot 7-125. Antenna 4 Radiated Spurious Plot Above 1GHz (NR Band n26)

FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 96 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-77.77	-2.00	27.23	-68.03	-13.00	-55.03
2449.5	H	-	-	-78.04	2.32	31.28	-63.97	-13.00	-50.97
3266.0	H	-	-	-78.88	3.95	32.08	-63.18	-13.00	-50.18

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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	H	-	-	-77.55	-2.00	27.45	-67.81	-13.00	-54.81
2457.0	H	-	-	-77.98	2.32	31.34	-63.92	-13.00	-50.92
3276.0	H	-	-	-78.99	3.99	32.00	-63.26	-13.00	-50.26

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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-77.72	-2.00	27.28	-67.98	-13.00	-54.98
2464.5	H	-	-	-78.18	2.38	31.21	-64.05	-13.00	-51.05
3286.0	H	-	-	-78.96	3.77	31.81	-63.45	-13.00	-50.45

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

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device					

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7.7.2 Antenna 3b – 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-74.27	-6.36	26.37	-68.89	-13.00	-55.89
2449.5	H	-	-	-75.13	-1.52	30.36	-64.90	-13.00	-51.90
3266.0	V	-	-	-75.55	-0.44	31.01	-64.25	-13.00	-51.25

Table 7-22. Antenna 3b 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	V	-	-	-74.37	-5.26	27.37	-67.89	-13.00	-54.89
2457.0	V	-	-	-75.32	-1.61	30.07	-65.19	-13.00	-52.19
3276.0	H	-	-	-75.69	-0.33	30.98	-64.28	-13.00	-51.28

Table 7-23. Antenna 3b 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-74.74	-5.85	26.41	-68.85	-13.00	-55.85
2464.5	V	-	-	-75.21	-1.52	30.28	-64.98	-13.00	-51.98
3286.0	V	-	-	-75.64	-0.25	31.12	-64.14	-13.00	-51.14

Table 7-24. Antenna 3b Radiated Spurious Data (LTE Band 26 – High Channel)

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	V	-	-	-74.46	-6.54	26.00	-69.26	-40.00	-29.26
2371.5	V	-	-	-74.84	-2.13	30.03	-65.23	-13.00	-52.23
3162.0	V	-	-	-75.76	-0.39	30.85	-64.41	-13.00	-51.41

Table 7-25. Antenna 3b 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	V	-	-	-74.04	-6.41	26.55	-68.71	-40.00	-28.71
2379.0	V	-	-	-74.71	-2.18	30.11	-65.14	-13.00	-52.14
3172.0	H	-	-	-75.59	-0.28	31.14	-64.12	-13.00	-51.12

Table 7-26. Antenna 3b 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	V	-	-	-74.48	-6.41	26.11	-69.15	-40.00	-29.15
2386.5	V	-	-	-74.74	-2.18	30.08	-65.17	-13.00	-52.17
3182.0	V	-	-	-75.79	-0.24	30.97	-64.29	-13.00	-51.29

Table 7-27. Antenna 3b Radiated Spurious Data (LTE Band 14 – High Channel)

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	H	-	-	-77.84	-2.99	26.17	-69.09	-40.00	-29.09
2371.5	H	-	-	-77.51	2.20	31.69	-63.57	-13.00	-50.57
3162.0	H	-	-	-78.92	4.20	32.28	-62.98	-13.00	-49.98

Table 7-28. Antenna 3b 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	H	-	-	-77.67	-2.99	26.34	-68.92	-40.00	-28.92
2379.0	H	-	-	-77.15	2.19	32.03	-63.23	-13.00	-50.23
3172.0	H	-	-	-78.61	4.04	32.44	-62.82	-13.00	-49.82

Table 7-29. Antenna 3b 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-77.52	-2.89	26.59	-68.67	-40.00	-28.67
2386.5	H	-	-	-77.78	2.19	31.41	-63.85	-13.00	-50.85
3182.0	H	-	-	-78.84	4.23	32.38	-62.87	-13.00	-49.87

Table 7-30. Antenna 3b Radiated Spurious Data (NR Band n14 – High Channel)

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-76.92	-2.80	27.28	-67.98	-13.00	-54.98
2449.5	H	-	-	-77.86	2.32	31.46	-63.80	-13.00	-50.80
3266.0	H	-	-	-78.78	3.99	32.20	-63.05	-13.00	-50.05

Table 7-31. Antenna 3b 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	H	-	-	-77.72	-2.00	27.28	-67.98	-13.00	-54.98
2457.0	H	-	-	-78.10	2.45	31.35	-63.91	-13.00	-50.91
3276.0	H	-	-	-78.93	3.99	32.06	-63.20	-13.00	-50.20

Table 7-32. Antenna 3b 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 μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-77.55	-2.00	27.44	-67.81	-13.00	-54.81
2464.5	H	-	-	-78.18	2.32	31.14	-64.12	-13.00	-51.12
3286.0	H	-	-	-78.88	3.77	31.89	-63.37	-13.00	-50.37

Table 7-33. Antenna 3b Radiated Spurious Data (NR Band n26 – High Channel)

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	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

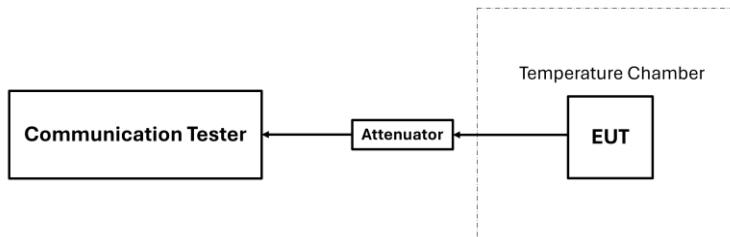


Figure 7-13. LTE Test Instrument & Measurement Setup

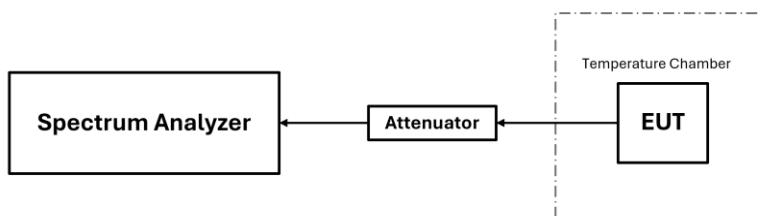


Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 26					
		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	0.819000098	0.000000086	0.000010501
		- 20	0.819000127	0.000000115	0.000014042
		- 10	0.819000080	0.000000068	0.000008303
		0	0.819000057	0.000000045	0.000005495
		+ 10	0.818999945	-0.000000067	-0.000008181
		+ 20 (Ref)	0.819000012	0.000000000	0.000000000
		+ 30	0.819000068	0.000000056	0.000006838
		+ 40	0.818999944	-0.000000068	-0.000008303
		+ 50	0.819000075	0.000000063	0.000007692
		Battery Endpoint	0.819000090	0.000000078	0.000009524

Table 7-34. LTE Band 26 Frequency Stability Data

FCC ID: BCGA3267	 element			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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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	0.788872463	-0.000872463
		- 20	0.788711504	-0.000711504
		- 10	0.788872712	-0.000872712
		0	0.788452996	-0.000452996
		+ 10	0.788883773	-0.000883773
		+ 20 (Ref)	0.788626945	-0.000626945
		+ 30	0.788550381	-0.000550381
		+ 40	0.788323519	-0.000323519
		+ 50	0.788822580	-0.000822580
Battery Endpoint	3.40	+ 20	0.788657166	-0.000657166

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	0.797714305	-0.000285695
		- 20	0.797500773	-0.000499227
		- 10	0.797596089	-0.000403911
		0	0.797461347	-0.000538653
		+ 10	0.797303774	-0.000696226
		+ 20 (Ref)	0.797655326	-0.000344674
		+ 30	0.797255265	-0.000744735
		+ 40	0.797143245	-0.000856755
		+ 50	0.797506786	-0.000493214
Battery Endpoint	3.40	+ 20	0.797060994	-0.000939006

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

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 104 of 107

Frequency Stability / Temperature Variation

NR Band n26											
<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>$\pm 0.00025\%$ 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	0.819000177	0.0000000135	0.000016484						
		- 20	0.819000111	0.0000000069	0.000008425						
		- 10	0.819000117	0.0000000075	0.000009158						
		0	0.819000087	0.0000000045	0.000005495						
		+ 10	0.819000097	0.0000000055	0.000006716						
		+ 20 (Ref)	0.819000042	0.0000000000	0.0000000000						
		+ 30	0.818999939	-0.000000103	-0.000012576						
		+ 40	0.818999986	-0.0000000056	-0.000006838						
		+ 50	0.819000098	0.0000000056	0.000006838						
Battery Endpoint	3.40	+ 20	0.818999946	-0.0000000096	-0.000011722						

Table 7-37. NR Band n26 Frequency Stability Data

FCC ID: BCGA3267	 element			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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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	0.788372862	-0.000372862
		- 20	0.788224692	-0.000224692
		- 10	0.788051552	-0.000051552
		0	0.788401227	-0.000401227
		+ 10	0.788469057	-0.000469057
		+ 20 (Ref)	0.788183019	-0.000183019
		+ 30	0.788451483	-0.000451483
		+ 40	0.788101632	-0.000101632
		+ 50	0.788243110	-0.000243110
Battery Endpoint	3.40	+ 20	0.788898997	-0.000898997

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	0.797390378	-0.000609622
		- 20	0.797500570	-0.000499430
		- 10	0.797810113	-0.000189887
		0	0.797955519	-0.000044481
		+ 10	0.797253290	-0.000746710
		+ 20 (Ref)	0.797904201	-0.000095799
		+ 30	0.797188317	-0.000811683
		+ 40	0.797023841	-0.000976159
		+ 50	0.797641581	-0.000358419
Battery Endpoint	3.40	+ 20	0.797714745	-0.000285255

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

FCC ID: BCGA3267	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device		Page 106 of 107

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA3267** complies with all the requirements of Part 90 of the FCC rules.

FCC ID: BCGA3267	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210073-12-R1.BCG	Test Dates: 7/1/2024 - 12/9/2024	EUT Type: Tablet Device	Page 107 of 107