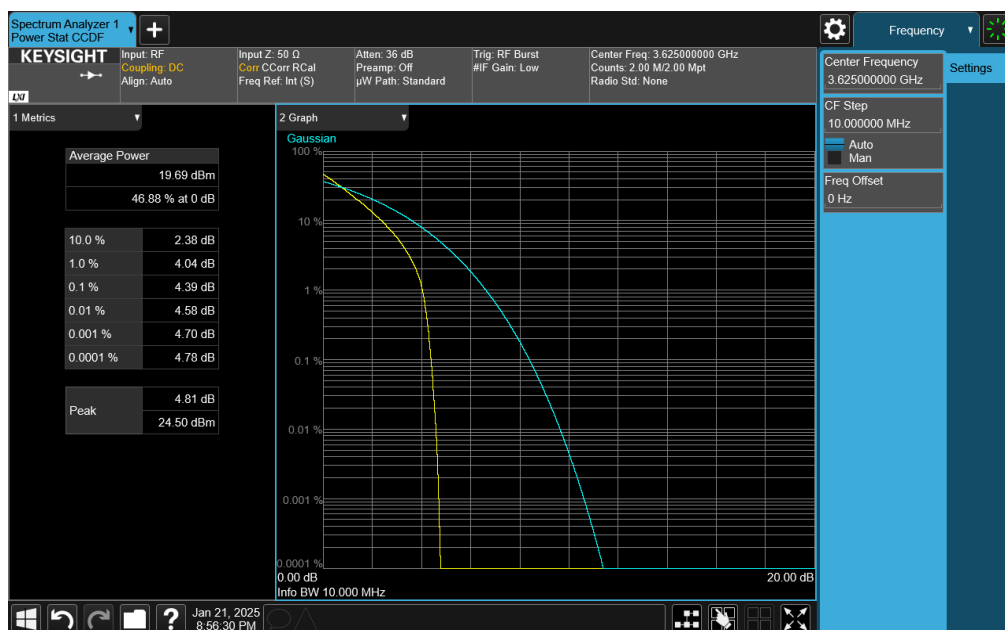
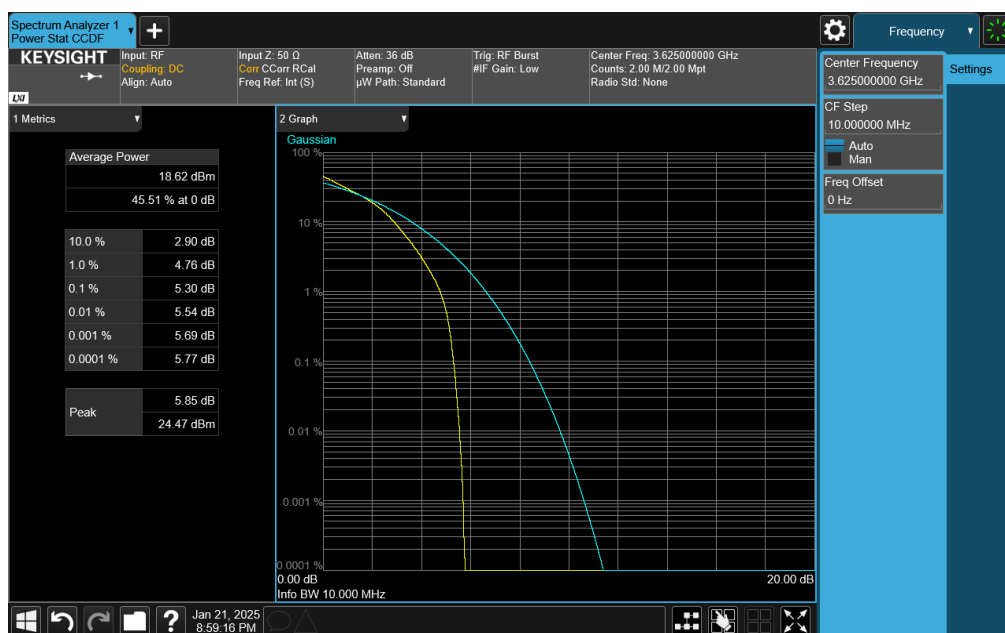




Plot 7-125. PAR Plot (LTE Band 48 - 10MHz QPSK – Full RB)

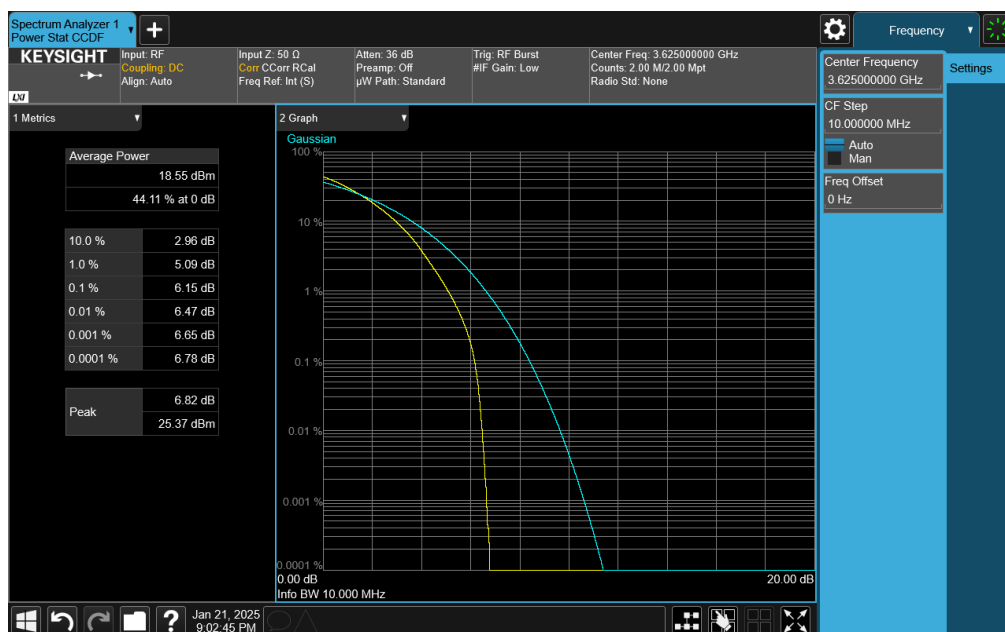


Plot 7-126. PAR Plot (LTE Band 48 - 10MHz 16-QAM – Full RB)

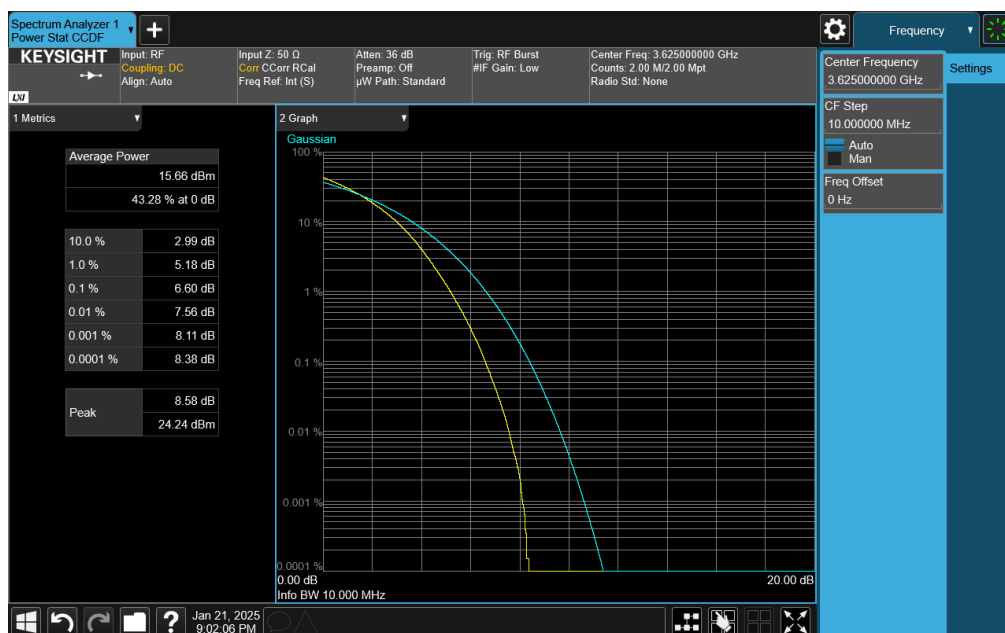
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-127. PAR Plot (LTE Band 48 - 10MHz 64-QAM – Full RB)

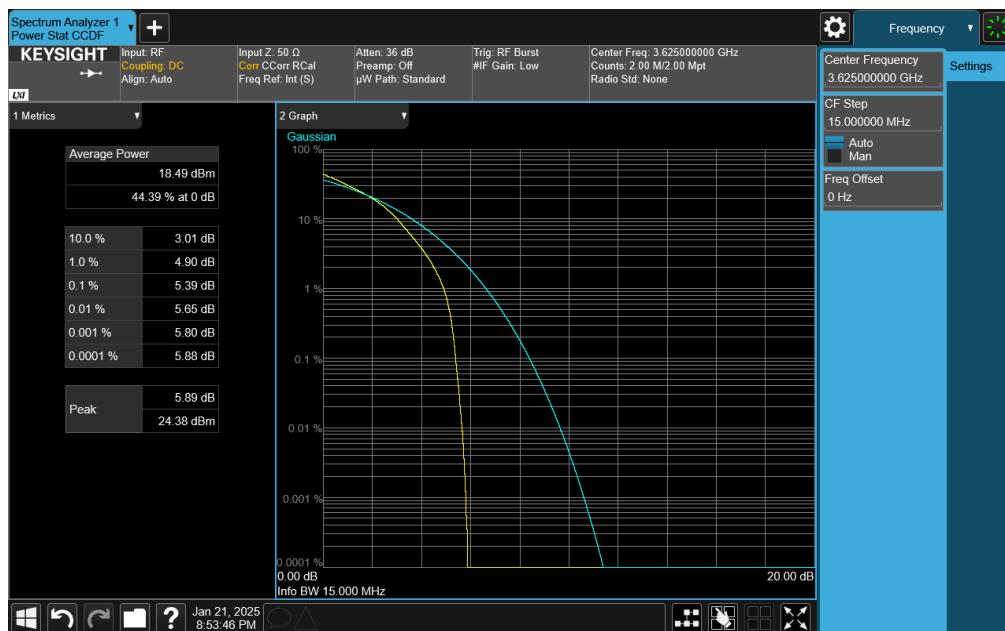
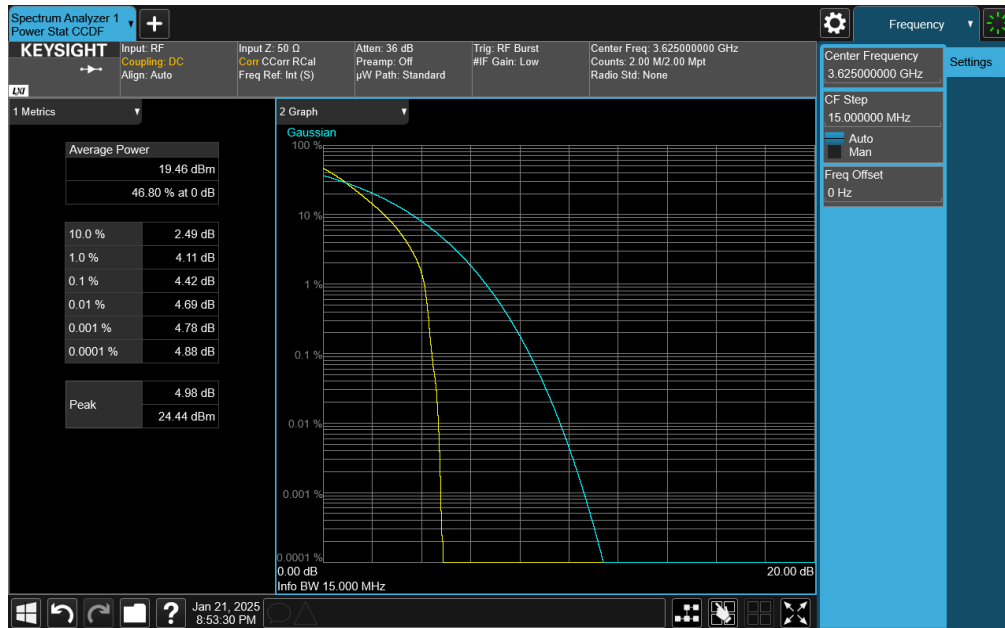


Plot 7-128. PAR Plot (LTE Band 48 - 10MHz 256-QAM – Full RB)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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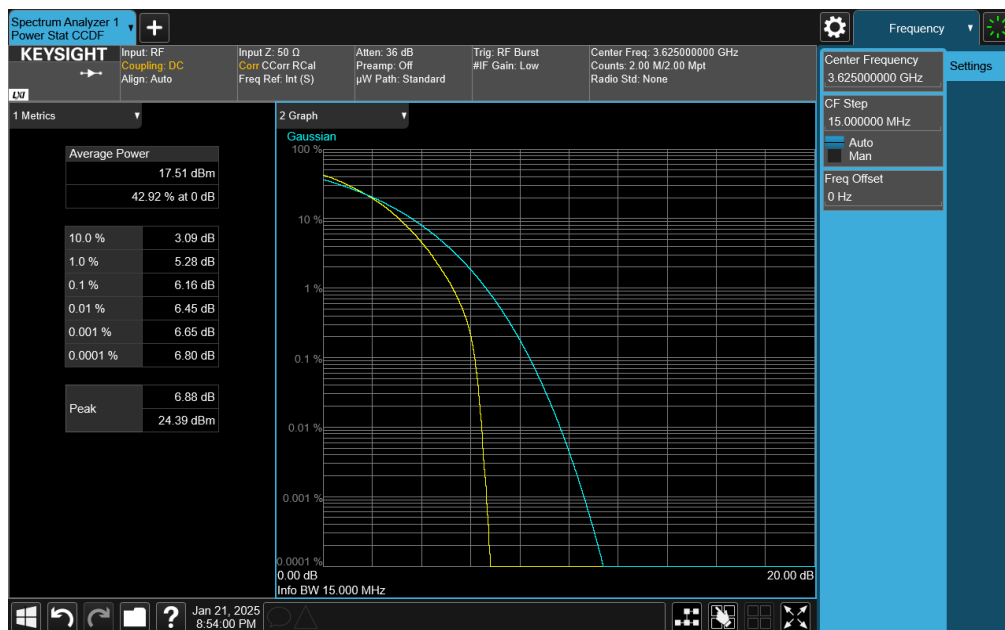
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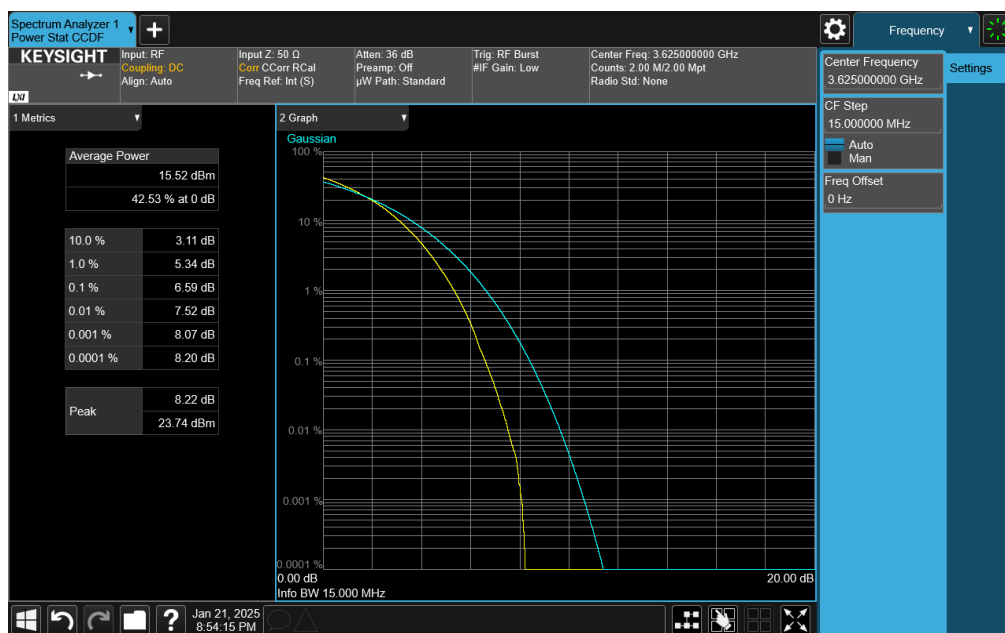
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-131. PAR Plot (LTE Band 48 - 15MHz 64-QAM – Full RB)

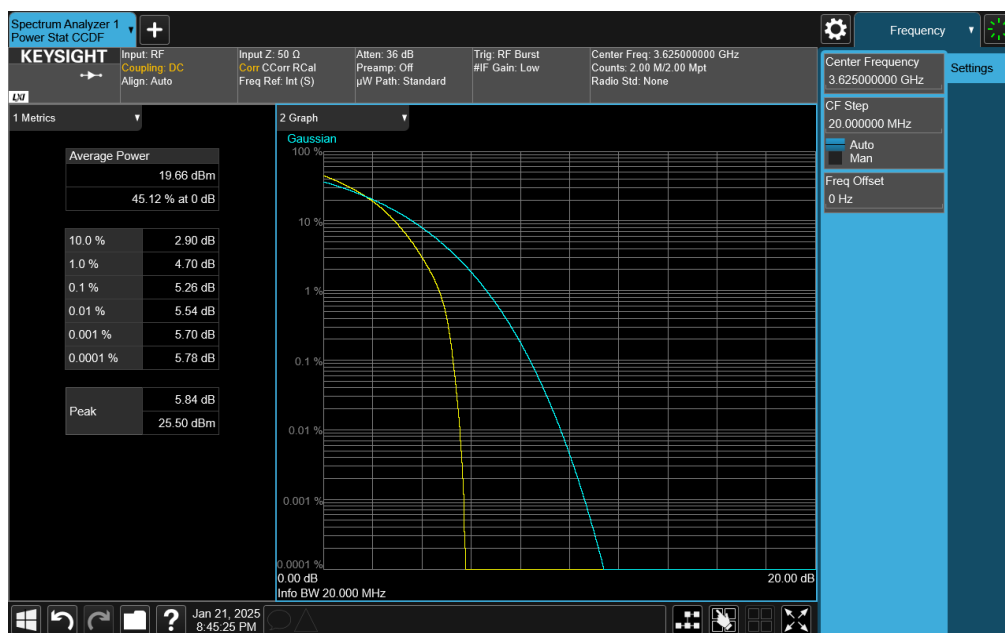
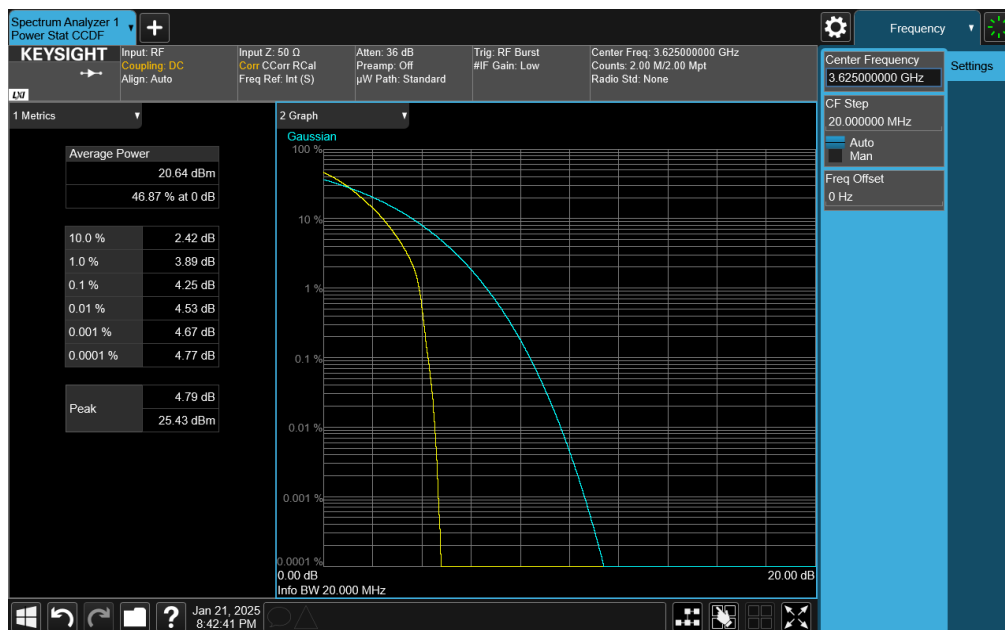


Plot 7-132. PAR Plot (LTE Band 48 - 15MHz 256-QAM – Full RB)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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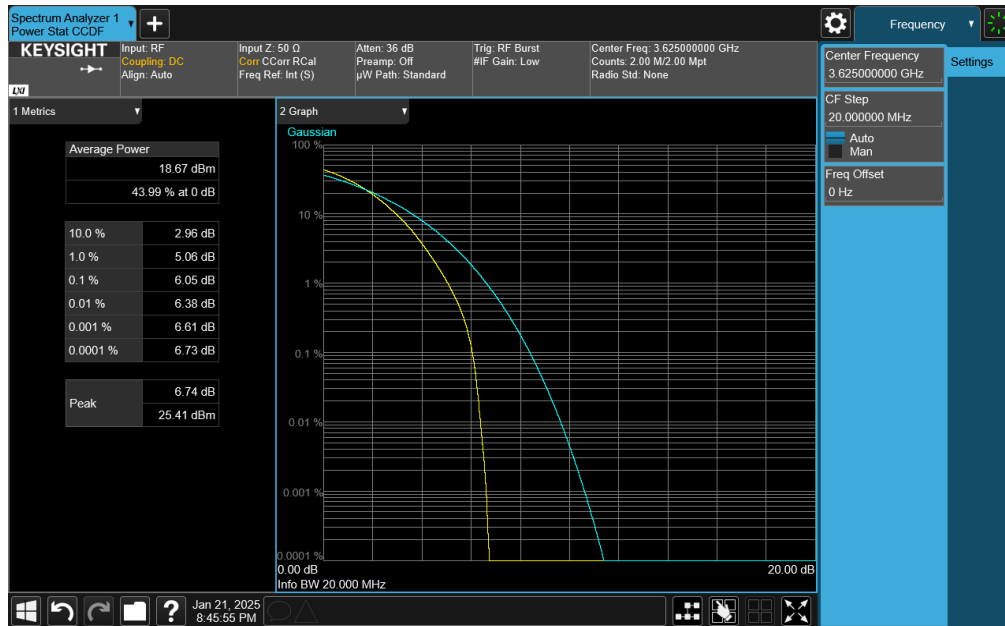
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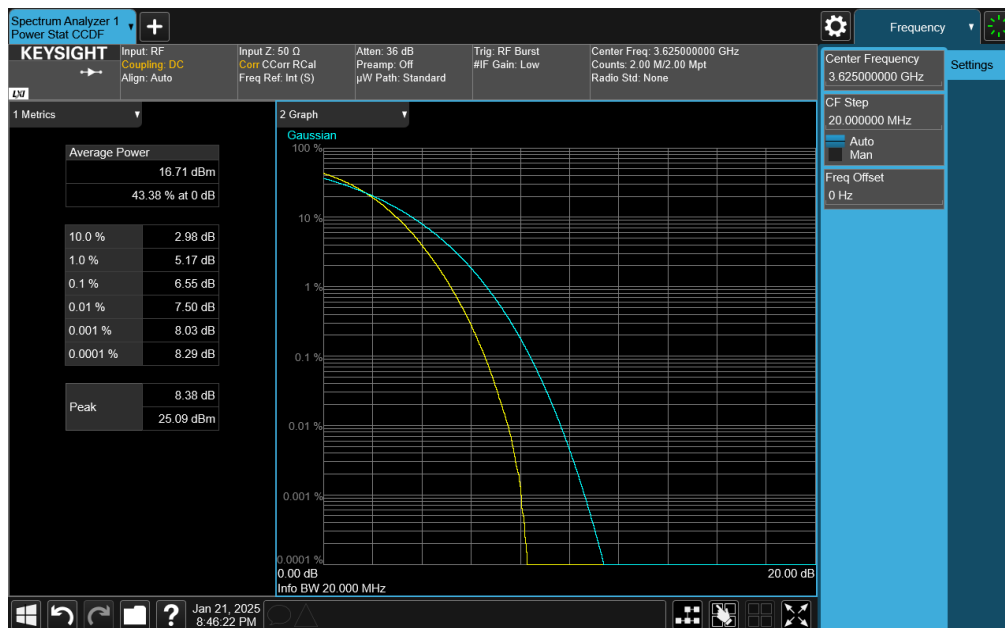
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-135. PAR Plot (LTE Band 48 - 20MHz 64-QAM – Full RB)



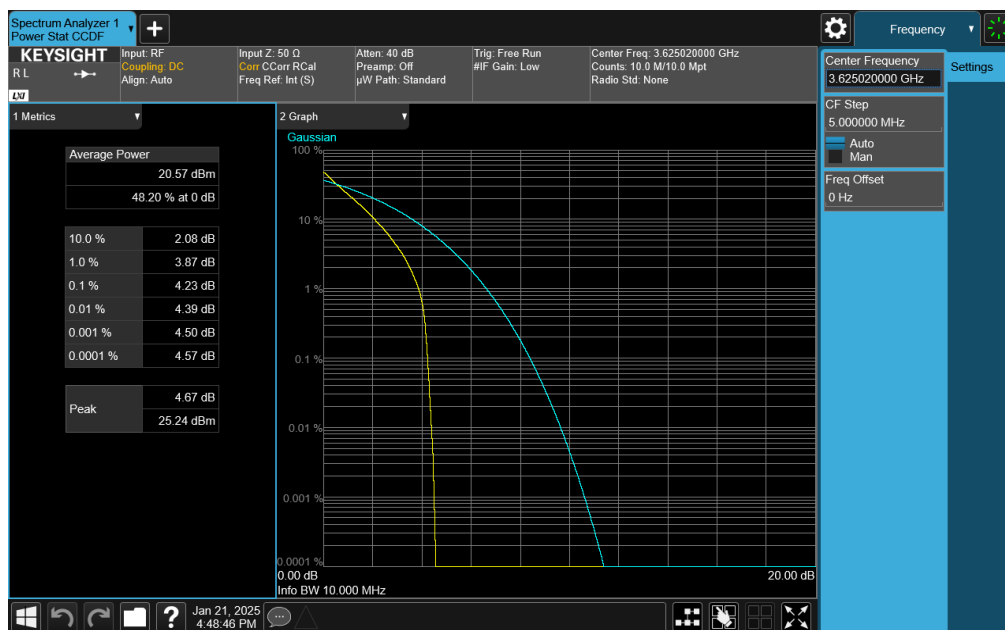
Plot 7-136. PAR Plot (LTE Band 48 - 20MHz 256-QAM – Full RB)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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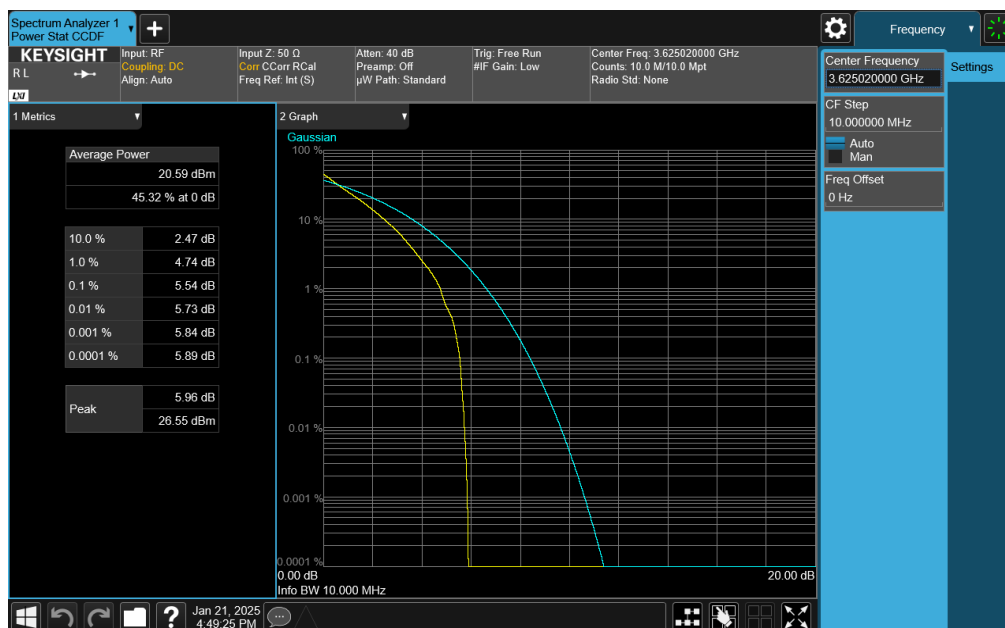
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NR Band n48



Plot 7-137. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM $\pi/2$ BPSK)

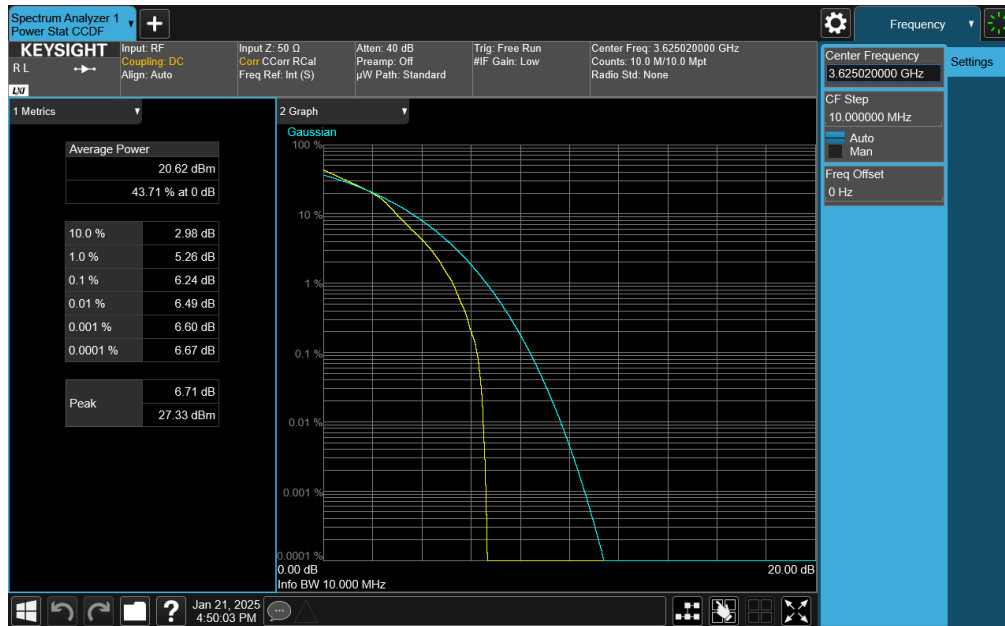


Plot 7-138. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM QPSK)

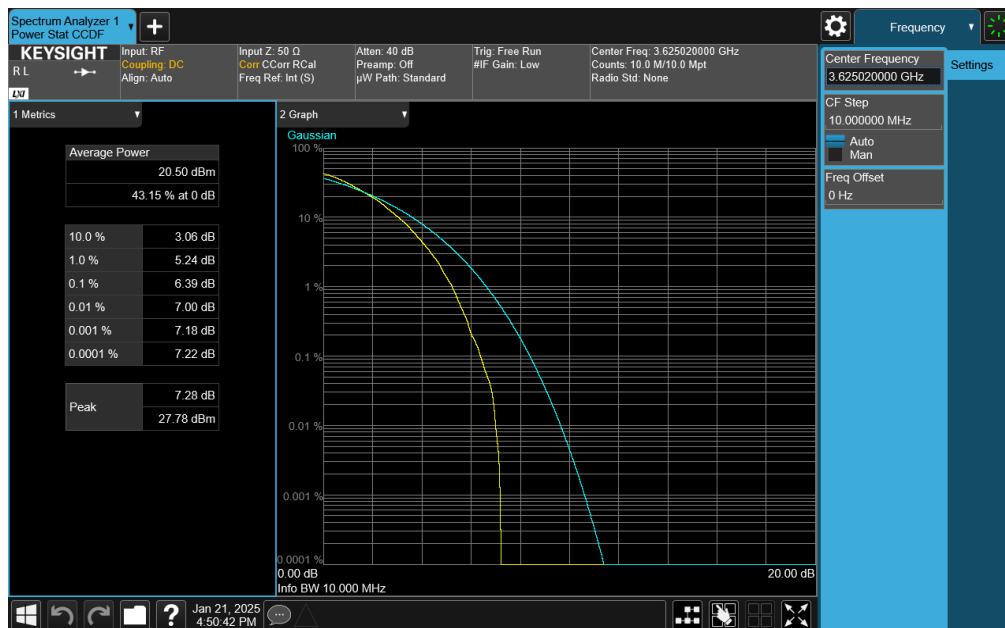
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-139. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 16-QAM)

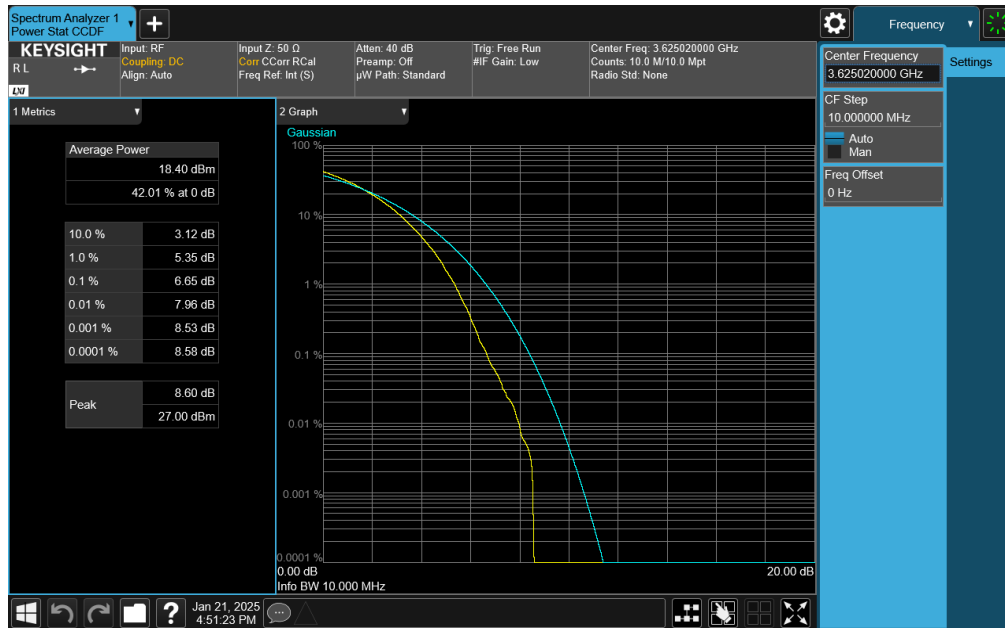


Plot 7-140. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 64-QAM)

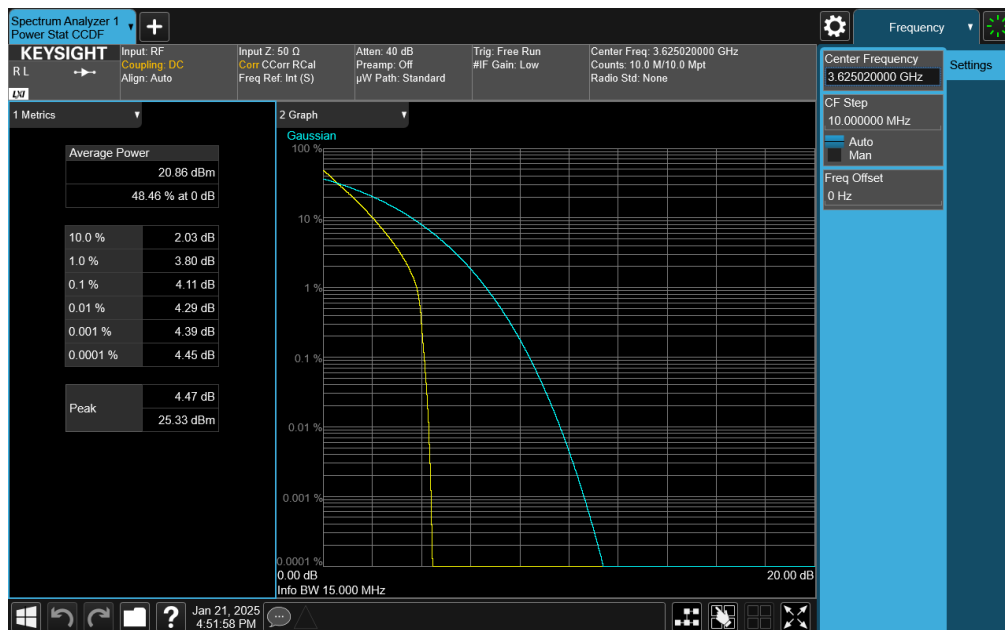
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-141. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 256-QAM)

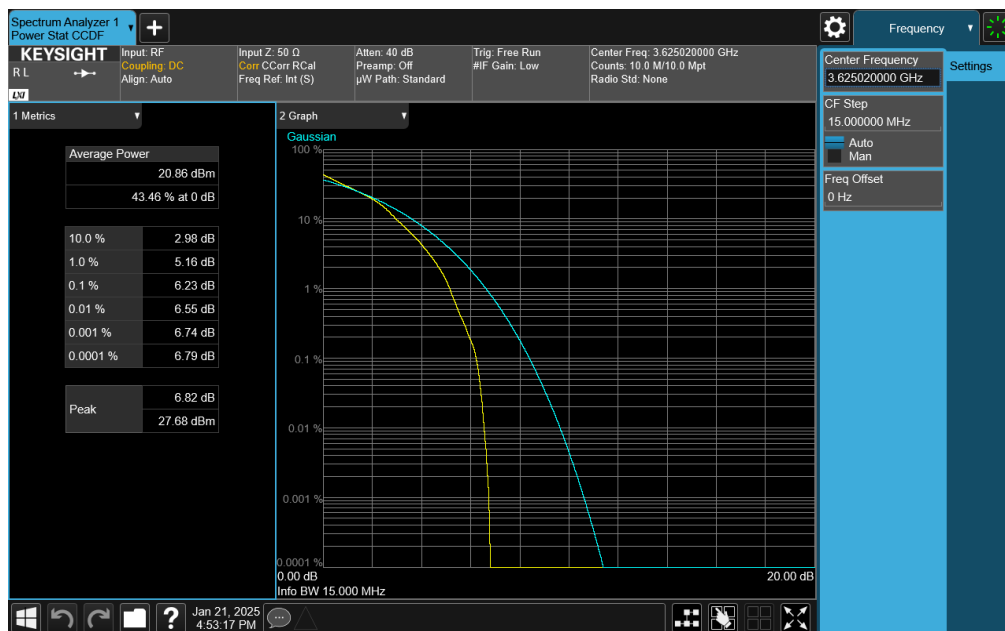
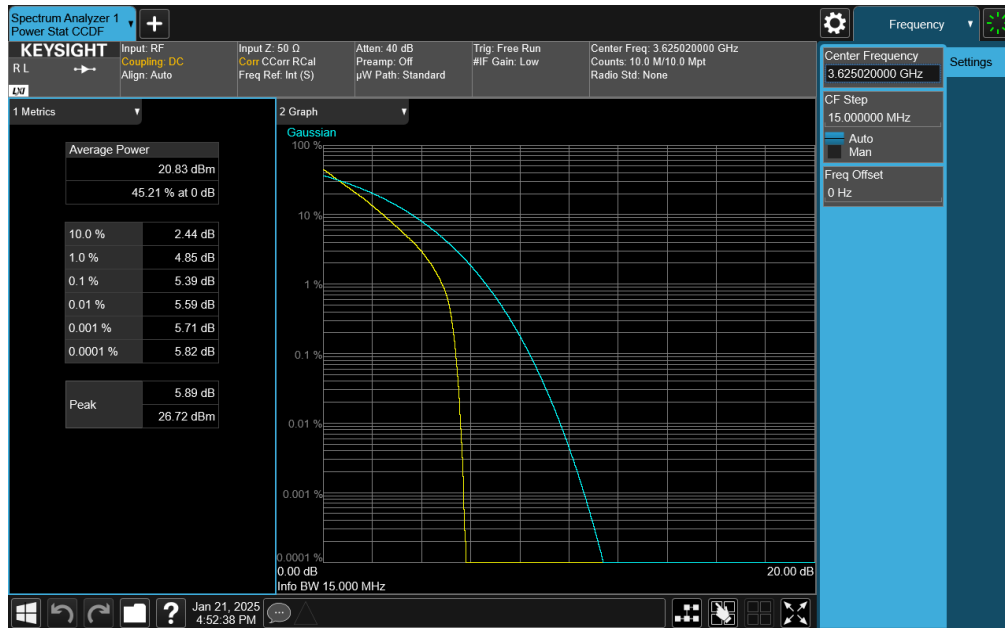


Plot 7-142. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM $\pi/2$ BPSK)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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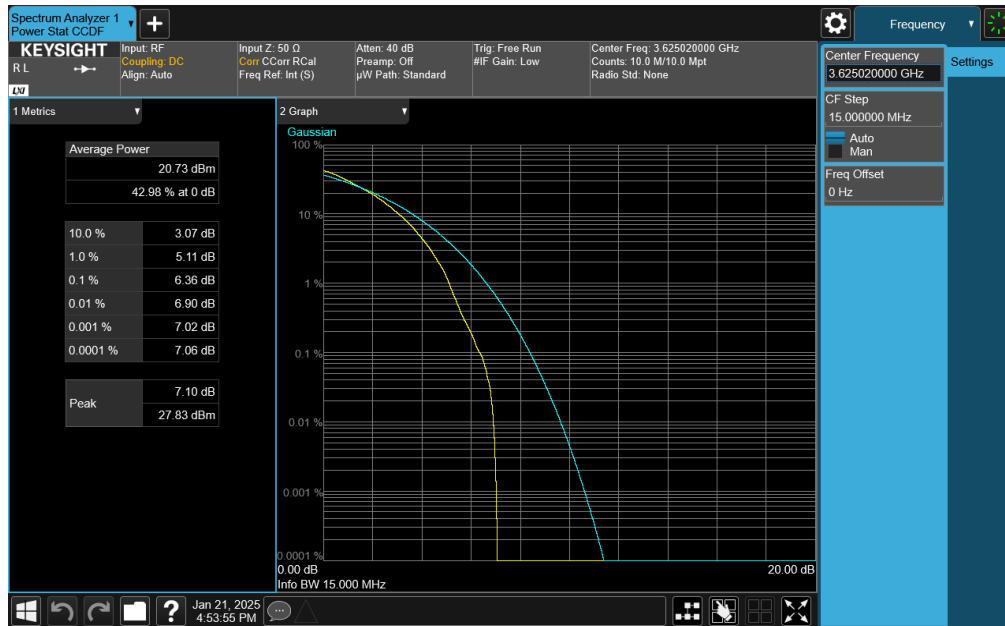
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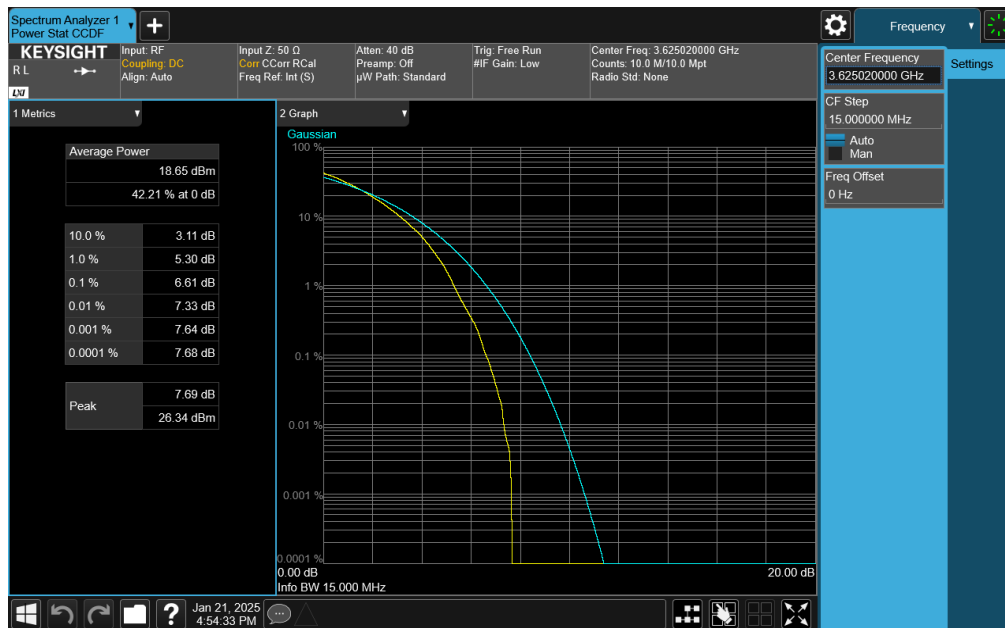
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-145. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM 64-QAM)

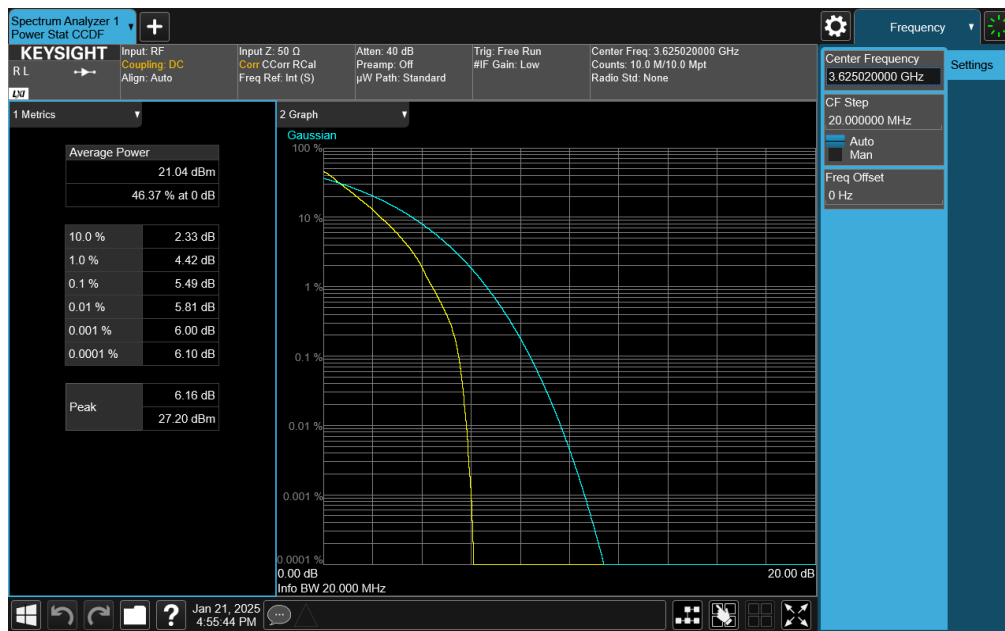
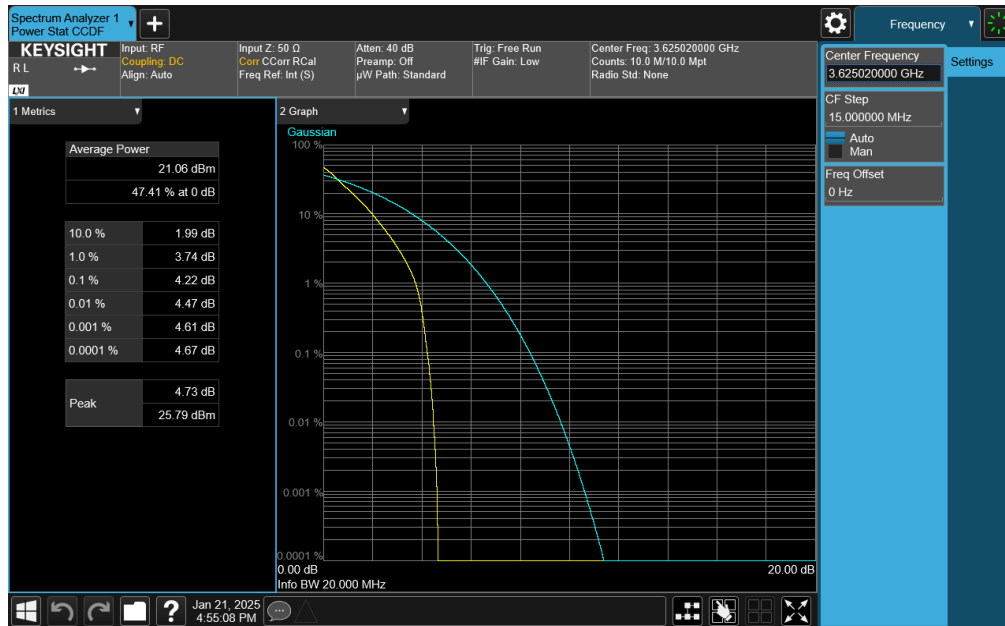


Plot 7-146. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM 256-QAM)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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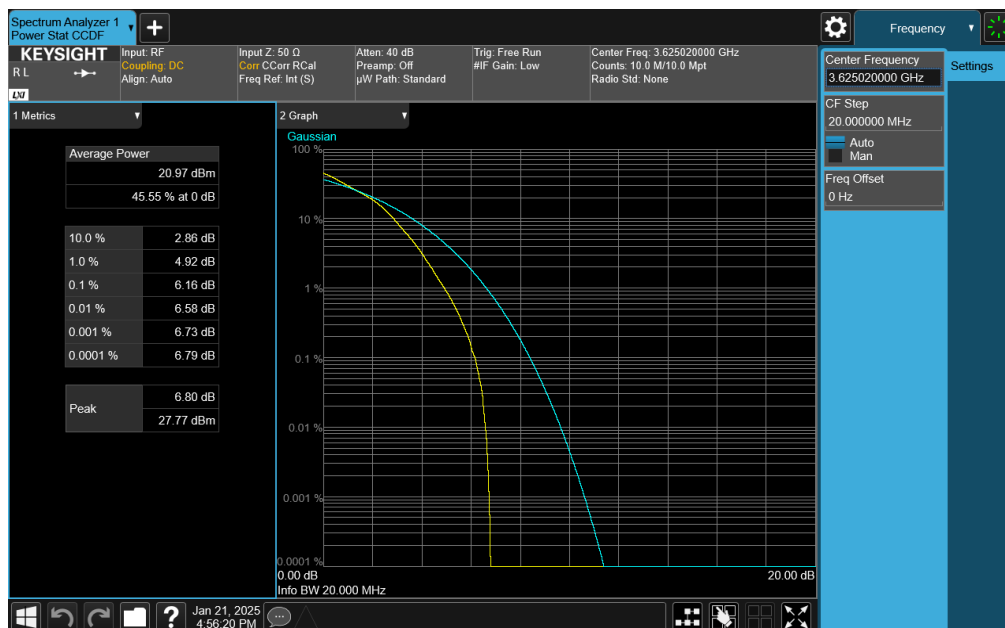
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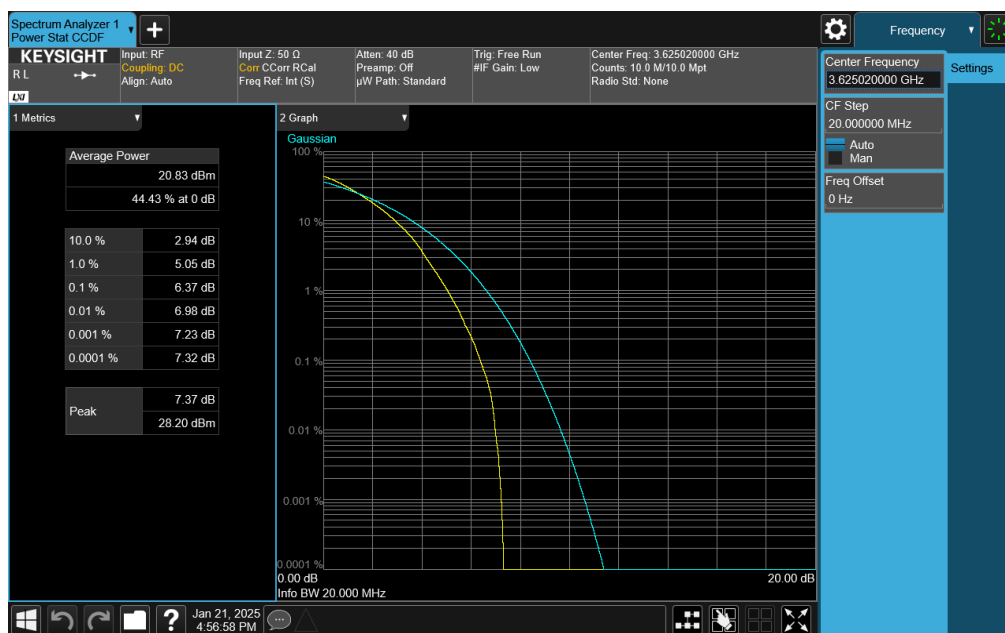
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-149. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM 16-QAM)

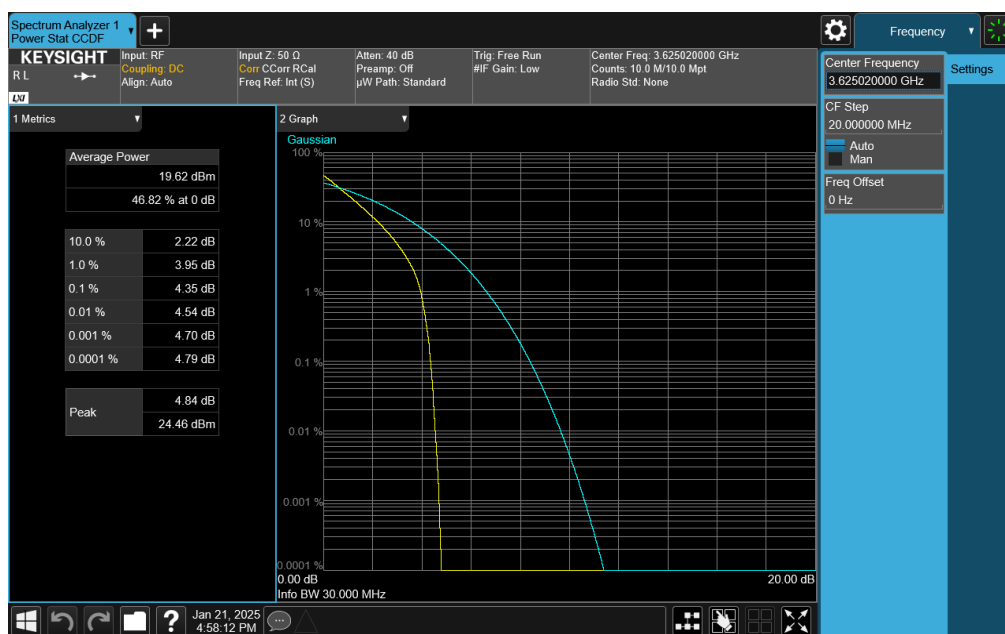
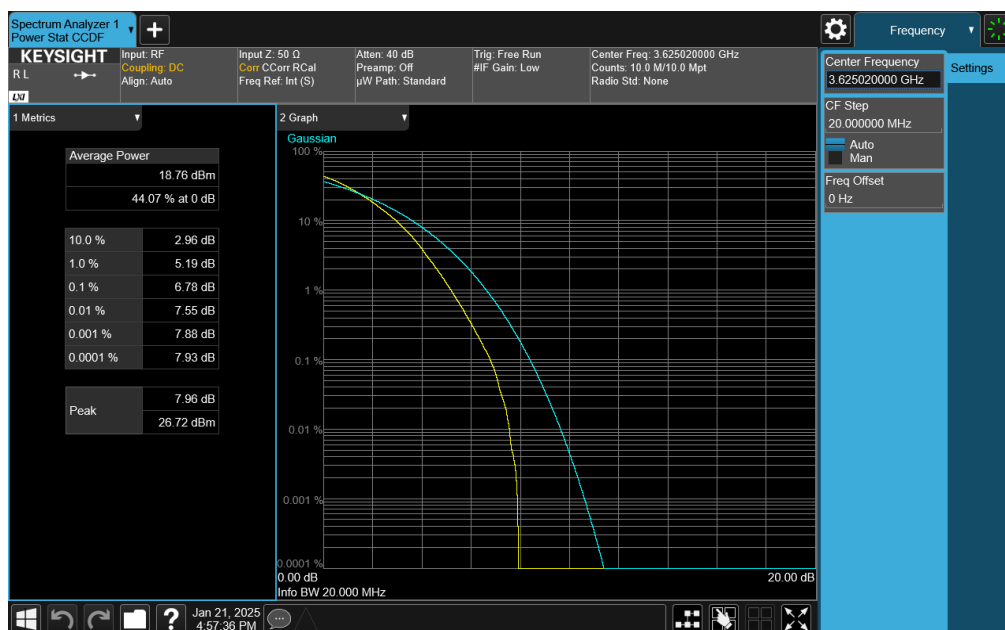


Plot 7-150. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM 64-QAM)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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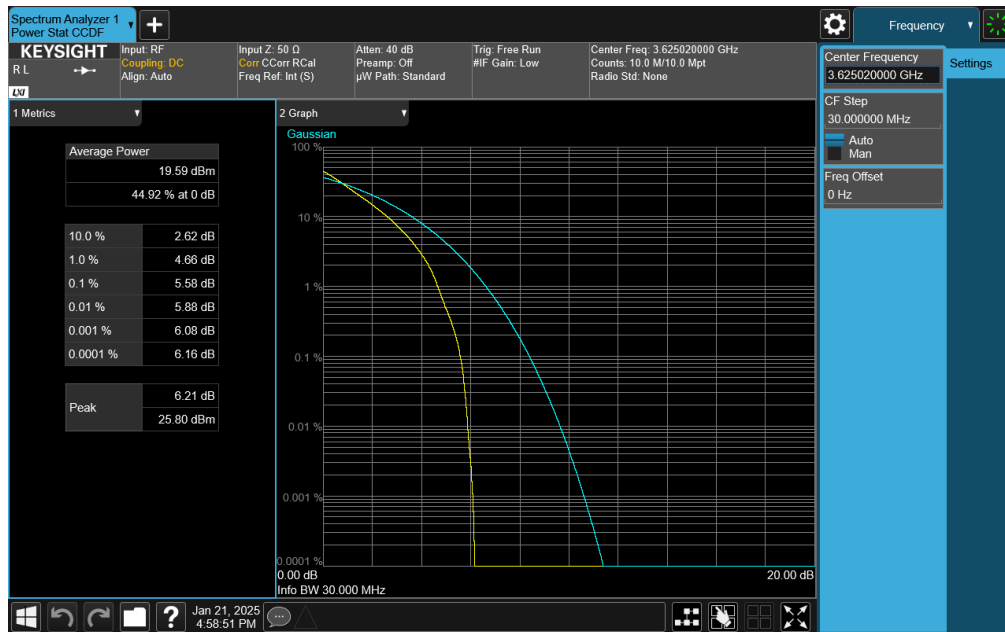
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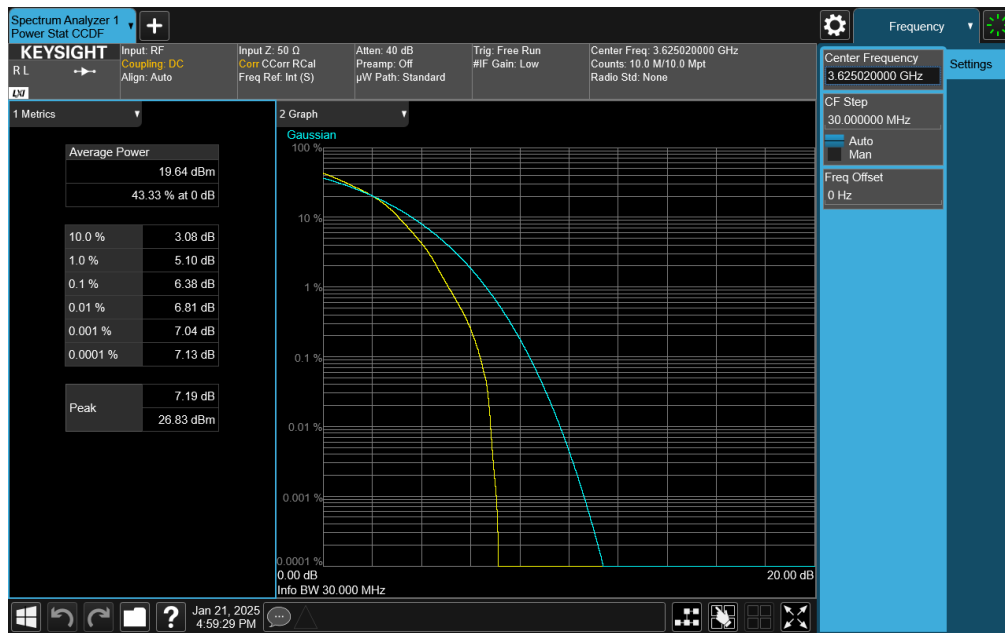
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-153. PAR Plot (NR Band n48 - 30MHz DFT-s-OFDM QPSK)

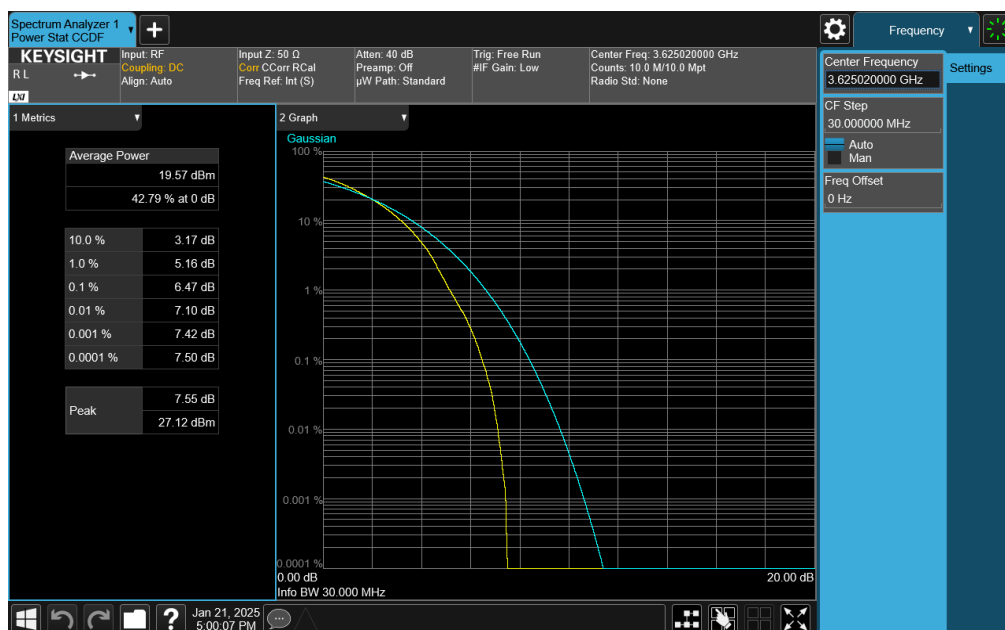


Plot 7-154. PAR Plot (NR Band n48 - 30MHz DFT-s-OFDM 16-QAM)

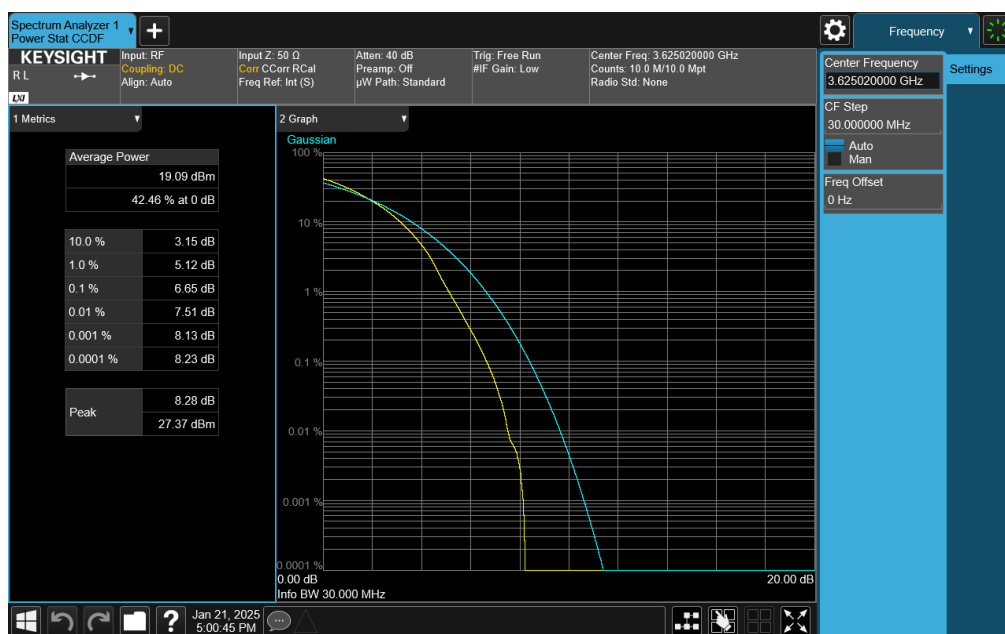
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-155. PAR Plot (NR Band n48 - 30MHz DFT-s-OFDM 64-QAM)

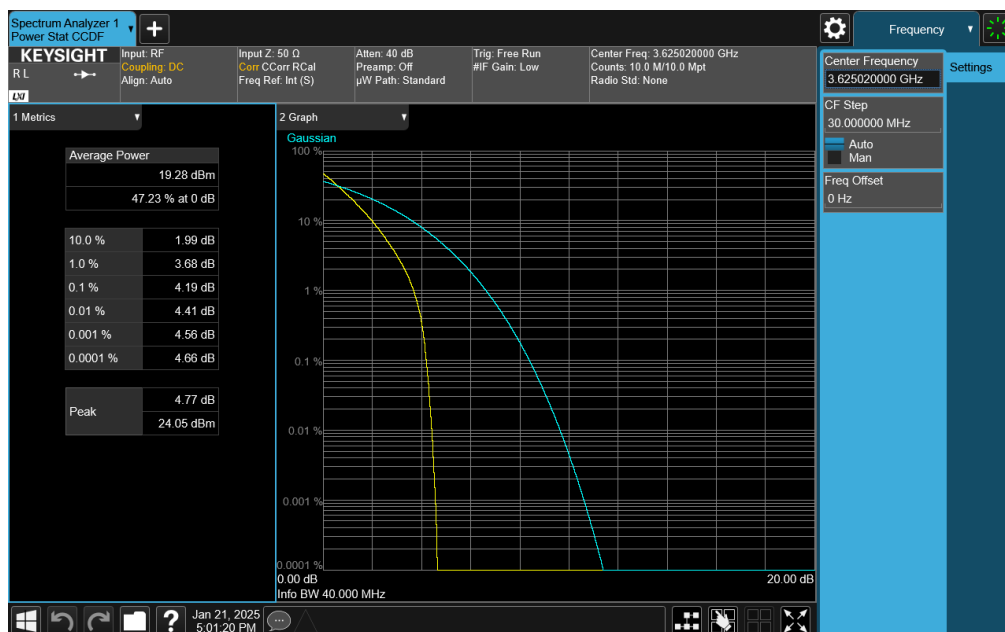


Plot 7-156. PAR Plot (NR Band n48 - 30MHz DFT-s-OFDM 256-QAM)

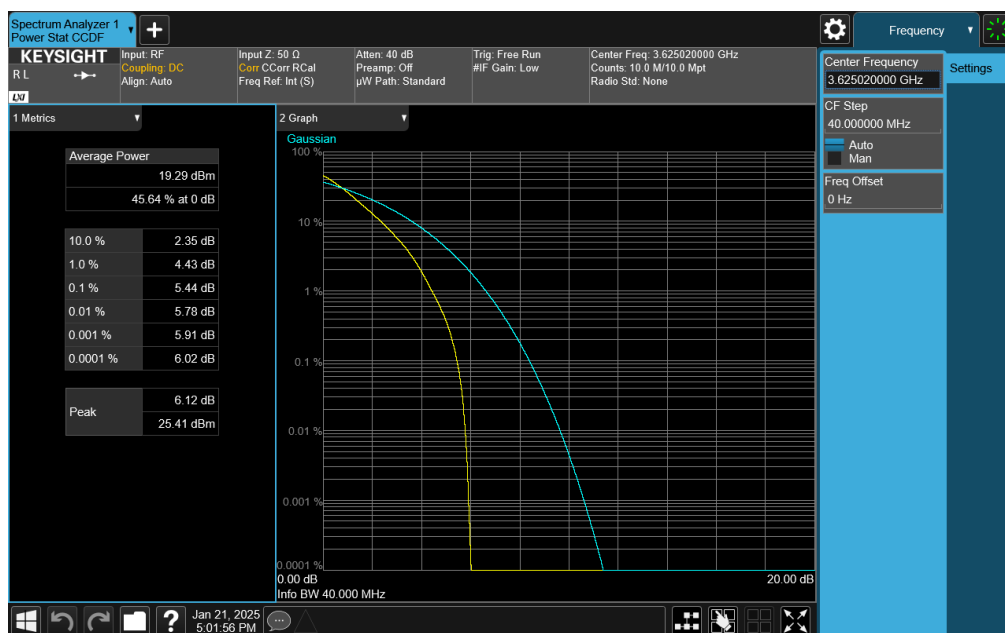
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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Plot 7-157. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM $\pi/2$ BPSK)

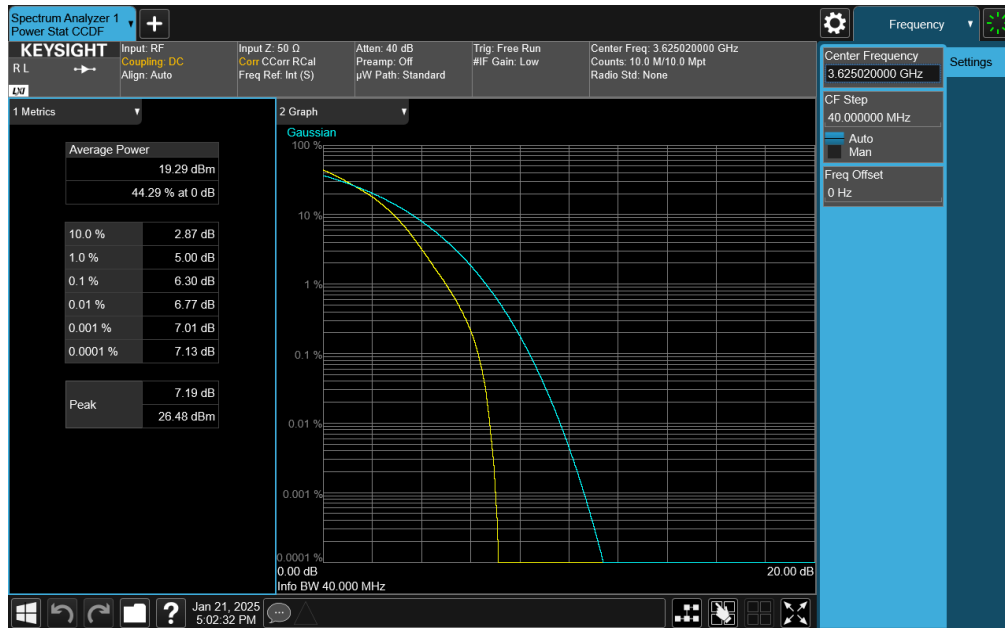


Plot 7-158. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK)

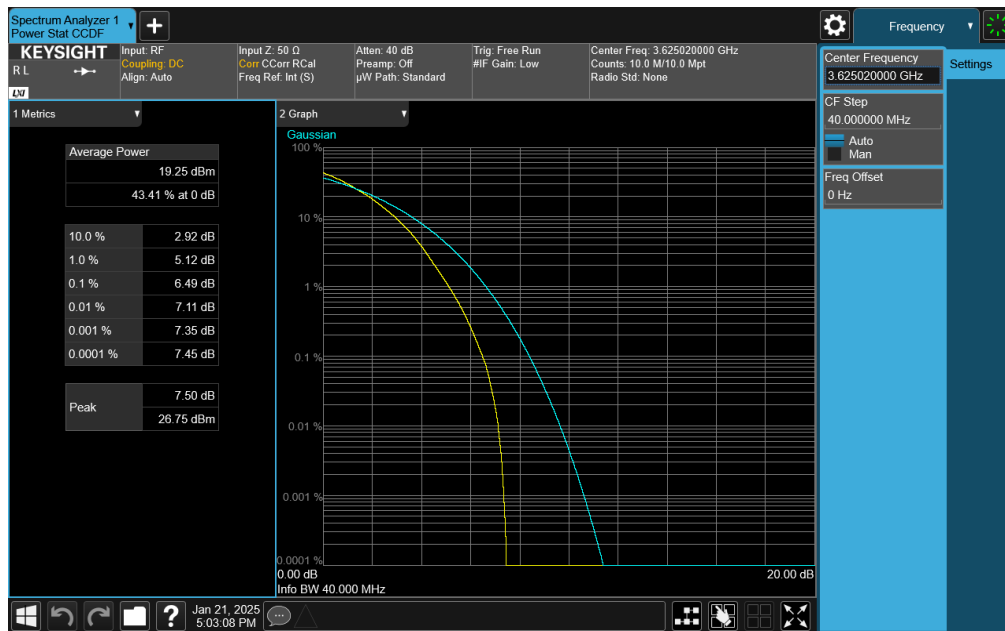
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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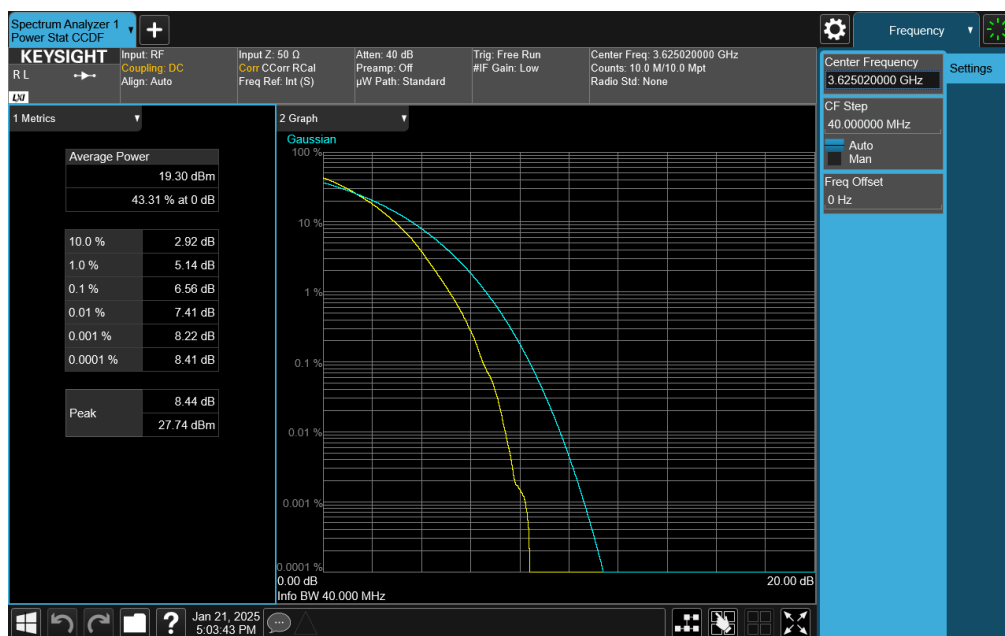


Plot 7-159. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 16-QAM)



Plot 7-160. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 64-QAM)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-161. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 256-QAM)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6 Radiated Power (EIRP)

§96.41(b)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) 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 EIRP from the conducted RF output power measured is:

$$\text{EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

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

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

GT = gain of the transmitting antenna, in dBi (EIRP)

Test Setup

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

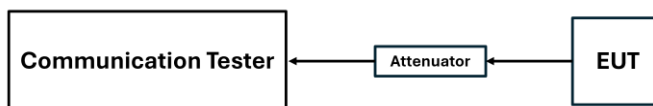


Figure 7-9. LTE EIRP Measurement Setup

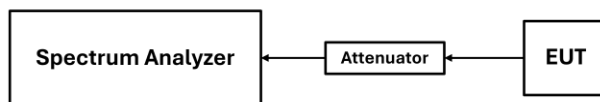


Figure 7-10. FR1 Test Instrument & Measurement Setup

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Test Notes

- 1) The worst case emissions are reported with the modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
- 4) The worst case EIRP shown in this section is found with LTE & NR operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz) and NR FR1 Band 48 (i.e. 10, 15, 20, 30, 40MHz).
- 5) Uplink carrier aggregation for LTE B48 is only supported in this EUT while operating in Power Class 3.
- 6) For ULCA, conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.1 Antenna 3b – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
5 MHz	QPSK	3552.5	3.00	1 / 0	19.46	22.46	0.176	23.00	-0.54
		3625.0	3.00	1 / 24	19.36	22.36	0.172	23.00	-0.64
		3697.5	3.00	1 / 0	19.45	22.45	0.176	23.00	-0.55
	16-QAM	3552.5	3.00	1 / 12	19.08	22.08	0.162	23.00	-0.92
	64-QAM	3625.0	3.00	1 / 12	18.64	21.64	0.146	23.00	-1.36
	256-QAM	3625.0	3.00	1 / 12	18.14	21.14	0.130	23.00	-1.86
10 MHz	QPSK	3555.0	3.00	1 / 25	19.43	22.43	0.175	23.00	-0.57
		3625.0	3.00	1 / 0	19.41	22.41	0.174	23.00	-0.59
		3695.0	3.00	1 / 25	19.28	22.28	0.169	23.00	-0.72
	16-QAM	3555.0	3.00	1 / 25	18.90	21.90	0.155	23.00	-1.10
	64-QAM	3555.0	3.00	1 / 0	18.47	21.47	0.140	23.00	-1.53
	256-QAM	3695.0	3.00	1 / 0	18.11	21.11	0.129	23.00	-1.90
15 MHz	QPSK	3557.5	3.00	1 / 0	19.50	22.50	0.178	23.00	-0.50
		3625.0	3.00	1 / 0	19.45	22.45	0.176	23.00	-0.55
		3692.5	3.00	1 / 0	19.47	22.47	0.177	23.00	-0.53
	16-QAM	3692.5	3.00	1 / 0	19.05	22.05	0.160	23.00	-0.95
	64-QAM	3692.5	3.00	1 / 0	18.60	21.60	0.145	23.00	-1.40
	256-QAM	3692.5	3.00	1 / 0	18.08	21.08	0.128	23.00	-1.92
20 MHz	QPSK	3560.0	3.00	1 / 0	19.49	22.49	0.177	23.00	-0.51
		3625.0	3.00	1 / 0	19.44	22.44	0.176	23.00	-0.56
		3690.0	3.00	1 / 0	19.32	22.32	0.171	23.00	-0.68
	16-QAM	3560.0	3.00	1 / 50	18.99	21.99	0.158	23.00	-1.01
	64-QAM	3690.0	3.00	1 / 50	18.55	21.55	0.143	23.00	-1.45
	256-QAM	3560.0	3.00	1 / 0	18.07	21.07	0.128	23.00	-1.93

Table 7-1. EIRP Data (LTE Band 48)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device	Page 104 of 139

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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
10 MHz	π/2 BPSK	3555.0	3.00	1 / 22	19.43	22.43	0.175	23.00	-0.57
		3625.0	3.00	1 / 1	19.45	22.45	0.176	23.00	-0.55
		3695.0	3.00	1 / 1	19.46	22.46	0.176	23.00	-0.54
	QPSK	3555.0	3.00	1 / 22	19.43	22.43	0.175	23.00	-0.57
		3625.0	3.00	1 / 22	19.45	22.45	0.176	23.00	-0.55
		3695.0	3.00	1 / 12	19.48	22.48	0.177	23.00	-0.52
	16-QAM	3695.0	3.00	1 / 12	19.22	22.22	0.167	23.00	-0.78
	64-QAM	3555.0	3.00	1 / 22	18.86	21.86	0.153	23.00	-1.15
	256-QAM	3695.0	3.00	1 / 12	18.57	21.57	0.144	23.00	-1.43
15 MHz	π/2 BPSK	3557.5	3.00	1 / 18	19.50	22.50	0.178	23.00	-0.50
		3625.0	3.00	1 / 1	19.50	22.50	0.178	23.00	-0.50
		3692.5	3.00	1 / 18	19.43	22.43	0.175	23.00	-0.57
	QPSK	3557.5	3.00	1 / 36	19.36	22.36	0.172	23.00	-0.64
		3625.0	3.00	1 / 18	19.50	22.50	0.178	23.00	-0.50
		3692.5	3.00	1 / 1	19.48	22.48	0.177	23.00	-0.52
	16-QAM	3625.0	3.00	1 / 18	19.22	22.22	0.167	23.00	-0.78
	64-QAM	3625.0	3.00	1 / 18	18.90	21.90	0.155	23.00	-1.11
	256-QAM	3625.0	3.00	1 / 18	18.61	21.61	0.145	23.00	-1.39
20 MHz	π/2 BPSK	3560.0	3.00	1 / 25	19.46	22.46	0.176	23.00	-0.54
		3625.0	3.00	1 / 25	19.40	22.40	0.174	23.00	-0.60
		3690.0	3.00	1 / 49	19.49	22.49	0.177	23.00	-0.51
	QPSK	3560.0	3.00	1 / 1	19.49	22.49	0.177	23.00	-0.52
		3625.0	3.00	1 / 25	19.40	22.40	0.174	23.00	-0.60
		3690.0	3.00	1 / 25	19.50	22.50	0.178	23.00	-0.50
	16-QAM	3560.0	3.00	1 / 1	19.15	22.15	0.164	23.00	-0.85
	64-QAM	3560.0	3.00	1 / 1	18.88	21.88	0.154	23.00	-1.12
	256-QAM	3560.0	3.00	1 / 1	18.55	21.55	0.143	23.00	-1.45
30 MHz	π/2 BPSK	3565.0	3.00	1 / 1	19.49	22.49	0.177	23.00	-0.51
		3625.0	3.00	1 / 36	19.46	22.46	0.176	23.00	-0.54
		3685.0	3.00	1 / 1	19.49	22.49	0.177	23.00	-0.51
	QPSK	3565.0	3.00	1 / 36	19.50	22.50	0.178	23.00	-0.50
		3625.0	3.00	1 / 76	19.43	22.43	0.175	23.00	-0.57
		3685.0	3.00	1 / 76	19.36	22.36	0.172	23.00	-0.64
	16-QAM	3565.0	3.00	1 / 36	19.24	22.24	0.167	23.00	-0.76
	64-QAM	3565.0	3.00	1 / 36	18.91	21.91	0.155	23.00	-1.10
	256-QAM	3565.0	3.00	1 / 36	18.62	21.62	0.145	23.00	-1.38
40 MHz	π/2 BPSK	3570.0	3.00	1 / 1	19.49	22.49	0.178	23.00	-0.51
		3625.0	3.00	1 / 1	19.42	22.42	0.175	23.00	-0.58
		3680.0	3.00	1 / 50	19.41	22.41	0.174	23.00	-0.59
	QPSK	3570.0	3.00	1 / 1	19.45	22.45	0.176	23.00	-0.55
		3625.0	3.00	1 / 1	19.39	22.39	0.174	23.00	-0.61
		3680.0	3.00	1 / 104	19.48	22.48	0.177	23.00	-0.52
	16-QAM	3570.0	3.00	1 / 1	19.18	22.18	0.165	23.00	-0.82
	64-QAM	3680.0	3.00	1 / 50	18.82	21.82	0.152	23.00	-1.18
	256-QAM	3625.0	3.00	1 / 50	18.54	21.54	0.142	23.00	-1.46

Table 7-2. EIRP Data (NR Band n48)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device	Page 105 of 139

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Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]			
			Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]							UL # RB	UL RB Offset	
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55457	3571.7	1	0	19.39	3.00	22.39	0.174	23.00	-0.61	
				55990	3625.0	1	99		56107	3636.7	1	0	19.46	3.00	22.46	0.176	23.00	-0.54	
			16-QAM	56640	3690.0	1	0	56523	3678.3	1	24	19.38	3.00	22.38	0.173	23.00	-0.62		
				55990	3625	100	0	56107	3636.7	100	0	19.16	3.00	22.16	0.165	23.00	-0.84		
				55990	3625	100	0	16-QAM	56107	3636.7	100	0	18.91	3.00	21.91	0.155	23.00	-1.09	
				55990	3625	100	0	16-QAM	56107	3636.7	100	0	18.61	3.00	21.61	0.145	23.00	-1.39	
Max	LTE B48	20MHz + 10MHz	QPSK	55990	3625	100	0	256-QAM	56107	3636.7	100	0	18.39	3.00	21.39	0.138	23.00	-1.61	
				55340	3560.0	1	99	55484	3574.4	1	0	19.48	3.00	22.48	0.177	23.00	-0.52		
			16-QAM	55990	3625.0	1	99	56134	3639.4	1	0	19.32	3.00	22.32	0.170	23.00	-0.68		
				56640	3690.0	1	0	56496	3675.6	1	49	19.29	3.00	22.29	0.169	23.00	-0.71		
				55340	3560	100	0	QPSK	55484	3574.4	100	0	19.21	3.00	22.21	0.166	23.00	-0.79	
				55340	3560	100	0	16-QAM	55484	3574.4	100	0	18.94	3.00	21.94	0.156	23.00	-1.06	
Max	LTE B48	20MHz + 15MHz	QPSK	64-QAM	55340	3560	100	0	64-QAM	55484	3574.4	100	0	18.65	3.00	21.65	0.146	23.00	-1.35
				256-QAM	55340	3560	100	0	256-QAM	55484	3574.4	100	0	18.42	3.00	21.42	0.139	23.00	-1.59
			QPSK	55340	3560.0	1	99	55511	3577.1	1	0	19.50	3.00	22.50	0.178	23.00	-0.50		
				55990	3625.0	1	99	56161	3642.1	1	0	19.49	3.00	22.49	0.178	23.00	-0.51		
				56640	3690.0	1	0	56469	3672.9	1	74	19.43	3.00	22.43	0.175	23.00	-0.57		
				QPSK	55340	3560	100	0	QPSK	55511	3577.1	100	0	19.17	3.00	22.17	0.165	23.00	-0.83
Max	LTE B48	20MHz + 20MHz	QPSK	16-QAM	55340	3560	100	0	16-QAM	55511	3577.1	100	0	18.96	3.00	21.96	0.157	23.00	-1.04
				64-QAM	55340	3560	100	0	64-QAM	55511	3577.1	100	0	18.67	3.00	21.67	0.147	23.00	-1.33
			256-QAM	55340	3560	100	0	256-QAM	55511	3577.1	100	0	18.44	3.00	21.44	0.139	23.00	-1.56	
				55340	3560.0	1	99	55538	3579.8	1	0	19.44	3.00	22.44	0.175	23.00	-0.56		
				55990	3625.0	1	99	56188	3644.8	1	0	19.42	3.00	22.42	0.175	23.00	-0.58		
				56640	3690.0	1	0	56442	3670.2	1	99	19.39	3.00	22.39	0.173	23.00	-0.61		
QPSK	55340	3560	100	0	QPSK	55538	3579.8	100	0	19.21	3.00	22.21	0.166	23.00	-0.79				
	16-QAM	55340	3560	100	0	16-QAM	55538	3579.8	100	0	18.96	3.00	21.96	0.157	23.00	-1.04			
	64-QAM	55340	3560	100	0	64-QAM	55538	3579.8	100	0	18.72	3.00	21.72	0.148	23.00	-1.28			
	256-QAM	55340	3560	100	0	256-QAM	55538	3579.8	100	0	18.50	3.00	21.50	0.141	23.00	-1.50			

Table 7-3. EIRP Data (ULCA LTE Band 48)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device
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7.6.2 Antenna 2a – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
5 MHz	QPSK	3552.5	2.40	1 / 12	20.01	22.41	0.174	23.00	-0.59
		3625.0	2.40	1 / 24	19.92	22.32	0.171	23.00	-0.68
		3697.5	2.40	1 / 0	19.95	22.35	0.172	23.00	-0.65
	16-QAM	3552.5	2.40	1 / 0	19.52	21.92	0.156	23.00	-1.08
	64-QAM	3697.5	2.40	1 / 0	19.09	21.49	0.141	23.00	-1.51
	256-QAM	3697.5	2.40	1 / 0	18.65	21.05	0.127	23.00	-1.96
10 MHz	QPSK	3555.0	2.40	1 / 49	20.07	22.47	0.176	23.00	-0.53
		3625.0	2.40	1 / 0	19.98	22.38	0.173	23.00	-0.62
		3695.0	2.40	1 / 0	20.05	22.45	0.176	23.00	-0.55
	16-QAM	3625.0	2.40	1 / 0	19.58	21.98	0.158	23.00	-1.02
	64-QAM	3555.0	2.40	1 / 0	19.09	21.49	0.141	23.00	-1.52
	256-QAM	3625.0	2.40	1 / 0	18.62	21.02	0.126	23.00	-1.98
15 MHz	QPSK	3557.5	2.40	1 / 37	20.09	22.49	0.178	23.00	-0.51
		3625.0	2.40	1 / 37	19.94	22.34	0.171	23.00	-0.66
		3692.5	2.40	1 / 37	20.00	22.40	0.174	23.00	-0.60
	16-QAM	3692.5	2.40	1 / 37	19.59	21.99	0.158	23.00	-1.02
	64-QAM	3557.5	2.40	1 / 37	19.11	21.51	0.142	23.00	-1.49
	256-QAM	3557.5	2.40	1 / 37	18.68	21.08	0.128	23.00	-1.92
20 MHz	QPSK	3560.0	2.40	1 / 50	20.00	22.40	0.174	23.00	-0.60
		3625.0	2.40	1 / 50	20.05	22.45	0.176	23.00	-0.55
		3690.0	2.40	1 / 50	20.10	22.50	0.178	23.00	-0.50
	16-QAM	3625.0	2.40	1 / 50	19.59	21.99	0.158	23.00	-1.01
	64-QAM	3625.0	2.40	1 / 50	19.15	21.55	0.143	23.00	-1.45
	256-QAM	3690.0	2.40	1 / 50	18.69	21.09	0.128	23.00	-1.92

Table 7-4. EIRP Data (LTE Band 48)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210077-13-R1.BCG	Test Dates: 7/1/2024-12/25/2024	EUT Type: Tablet Device	Page 107 of 139

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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
10 MHz	π/2 BPSK	3555.0	2.40	1 / 12	20.03	22.43	0.175	23.00	-0.57
		3625.0	2.40	1 / 1	20.10	22.50	0.178	23.00	-0.50
		3695.0	2.40	1 / 22	19.85	22.25	0.168	23.00	-0.75
	QPSK	3555.0	2.40	1 / 12	20.08	22.48	0.177	23.00	-0.52
		3625.0	2.40	1 / 1	20.08	22.48	0.177	23.00	-0.52
		3695.0	2.40	1 / 12	20.06	22.46	0.176	23.00	-0.54
	16-QAM	3625.0	2.40	1 / 22	19.79	22.19	0.166	23.00	-0.81
	64-QAM	3695.0	2.40	1 / 12	19.52	21.92	0.156	23.00	-1.08
	256-QAM	3695.0	2.40	1 / 12	19.20	21.60	0.145	23.00	-1.40
15 MHz	π/2 BPSK	3557.5	2.40	1 / 1	19.88	22.28	0.169	23.00	-0.73
		3625.0	2.40	1 / 1	20.09	22.49	0.177	23.00	-0.51
		3692.5	2.40	1 / 36	20.01	22.41	0.174	23.00	-0.59
	QPSK	3557.5	2.40	1 / 18	20.05	22.45	0.176	23.00	-0.55
		3625.0	2.40	1 / 18	20.03	22.43	0.175	23.00	-0.57
		3692.5	2.40	1 / 1	20.07	22.47	0.177	23.00	-0.53
	16-QAM	3557.5	2.40	1 / 18	19.77	22.17	0.165	23.00	-0.83
	64-QAM	3557.5	2.40	1 / 18	19.51	21.91	0.155	23.00	-1.09
	256-QAM	3625.0	2.40	1 / 18	19.20	21.60	0.144	23.00	-1.41
20 MHz	π/2 BPSK	3560.0	2.40	1 / 49	20.09	22.49	0.178	23.00	-0.51
		3625.0	2.40	1 / 49	19.98	22.38	0.173	23.00	-0.62
		3690.0	2.40	1 / 49	20.07	22.47	0.177	23.00	-0.53
	QPSK	3560.0	2.40	1 / 25	20.07	22.47	0.177	23.00	-0.53
		3625.0	2.40	1 / 1	20.09	22.49	0.177	23.00	-0.51
		3690.0	2.40	1 / 1	19.95	22.35	0.172	23.00	-0.66
	16-QAM	3625.0	2.40	1 / 1	19.82	22.22	0.167	23.00	-0.78
	64-QAM	3625.0	2.40	1 / 1	19.56	21.96	0.157	23.00	-1.04
	256-QAM	3625.0	2.40	1 / 1	19.20	21.60	0.145	23.00	-1.40
30 MHz	π/2 BPSK	3565.0	2.40	1 / 1	20.06	22.46	0.176	23.00	-0.54
		3625.0	2.40	1 / 76	19.89	22.29	0.169	23.00	-0.71
		3685.0	2.40	1 / 76	20.03	22.43	0.175	23.00	-0.57
	QPSK	3565.0	2.40	1 / 36	20.05	22.45	0.176	23.00	-0.55
		3625.0	2.40	1 / 1	20.07	22.47	0.177	23.00	-0.53
		3685.0	2.40	1 / 76	20.03	22.43	0.175	23.00	-0.57
	16-QAM	3625.0	2.40	1 / 1	19.80	22.20	0.166	23.00	-0.80
	64-QAM	3625.0	2.40	1 / 1	19.47	21.87	0.154	23.00	-1.13
	256-QAM	3625.0	2.40	1 / 1	19.13	21.53	0.142	23.00	-1.47
40 MHz	π/2 BPSK	3570.0	2.40	1 / 1	20.07	22.47	0.177	23.00	-0.53
		3625.0	2.40	1 / 50	20.07	22.47	0.177	23.00	-0.53
		3680.0	2.40	1 / 104	20.07	22.47	0.177	23.00	-0.53
	QPSK	3570.0	2.40	1 / 50	20.02	22.42	0.175	23.00	-0.58
		3625.0	2.40	1 / 104	20.01	22.41	0.174	23.00	-0.59
		3680.0	2.40	1 / 1	20.03	22.43	0.175	23.00	-0.57
	16-QAM	3680.0	2.40	1 / 1	19.78	22.18	0.165	23.00	-0.83
	64-QAM	3680.0	2.40	1 / 1	19.49	21.89	0.155	23.00	-1.11
	256-QAM	3680.0	2.40	1 / 1	19.16	21.56	0.143	23.00	-1.44

Table 7-5. EIRP Data (NR Band n48)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]			
			Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]							UL # RB	UL RB Offset	
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55457	3571.7	1	0	18.37	2.40	20.77	0.119	23.00	-2.23	
				55990	3625.0	1	99		56107	3636.7	1	0	20.05	2.40	22.45	0.176	23.00	-0.55	
				56640	3690.0	1	0		56523	3678.3	1	24	17.87	2.40	20.27	0.106	23.00	-2.73	
			16-QAM	55990	3625	100	0	QPSK	56107	3636.7	100	0	19.17	2.40	21.57	0.144	23.00	-1.43	
				64-QAM	55990	3625	100	0	16-QAM	56107	3636.7	100	0	18.91	2.40	21.31	0.135	23.00	-1.69
				256-QAM	55990	3625	100	0	64-QAM	56107	3636.7	100	0	18.66	2.40	21.06	0.128	23.00	-1.94
Max	LTE B48	20MHz + 10MHz	QPSK	55340	3560.0	1	99	QPSK	55484	3574.4	1	0	17.30	2.40	19.70	0.093	23.00	-3.30	
				55990	3625.0	1	99		56134	3639.4	1	0	19.97	2.40	22.37	0.173	23.00	-0.63	
				56640	3690.0	1	0		56496	3675.6	1	49	17.37	2.40	19.77	0.095	23.00	-3.23	
			16-QAM	55990	3625	100	0	QPSK	56134	3639.4	100	0	18.72	2.40	21.12	0.129	23.00	-1.89	
				64-QAM	55990	3625	100	0	16-QAM	56134	3639.4	100	0	18.46	2.40	20.86	0.122	23.00	-2.14
				256-QAM	55990	3625	100	0	64-QAM	56134	3639.4	100	0	18.21	2.40	20.61	0.115	23.00	-2.40
Max	LTE B48	20MHz + 15MHz	QPSK	55340	3560.0	1	99	QPSK	55511	3577.1	1	0	17.31	2.40	19.71	0.093	23.00	-3.29	
				55990	3625.0	1	99		56161	3642.1	1	0	20.02	2.40	22.42	0.175	23.00	-0.58	
				56640	3690.0	1	0		56469	3672.9	1	74	17.38	2.40	19.78	0.095	23.00	-3.22	
			16-QAM	55990	3625	100	0	QPSK	56161	3642.1	100	0	18.71	2.40	21.11	0.129	23.00	-1.89	
				64-QAM	55990	3625	100	0	16-QAM	56161	3642.1	100	0	18.44	2.40	20.84	0.121	23.00	-2.16
				256-QAM	55990	3625	100	0	64-QAM	56161	3642.1	100	0	18.23	2.40	20.63	0.116	23.00	-2.37
Max	LTE B48	20MHz + 20MHz	QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	18.86	2.40	21.26	0.134	23.00	-1.74	
				55990	3625.0	1	99		56188	3644.8	1	0	19.95	2.40	22.35	0.172	23.00	-0.65	
				56640	3690.0	1	0		56442	3670.2	1	99	17.28	2.40	19.68	0.093	23.00	-3.32	
			16-QAM	55990	3625	100	0	QPSK	56188	3644.8	100	0	18.69	2.40	21.09	0.129	23.00	-1.91	
				64-QAM	55990	3625	100	0	16-QAM	56188	3644.8	100	0	18.43	2.40	20.83	0.121	23.00	-2.17
				256-QAM	55990	3625	100	0	64-QAM	56188	3644.8	100	0	18.20	2.40	20.60	0.115	23.00	-2.40

Table 7-6. EIRP Data (ULCA LTE Band 48)

FCC ID: BCGA3355		PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.3 Antenna 4 – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
5 MHz	QPSK	3552.5	2.50	1 / 0	19.88	22.38	0.173	23.00	-0.62
		3625.0	2.50	1 / 0	19.98	22.48	0.177	23.00	-0.52
		3697.5	2.50	1 / 12	19.96	22.46	0.176	23.00	-0.54
	16-QAM	3697.5	2.50	1 / 0	19.49	21.99	0.158	23.00	-1.01
	64-QAM	3552.5	2.50	1 / 0	19.02	21.52	0.142	23.00	-1.49
	256-QAM	3697.5	2.50	1 / 12	18.47	20.97	0.125	23.00	-2.03
10 MHz	QPSK	3555.0	2.50	1 / 25	19.94	22.44	0.175	23.00	-0.56
		3625.0	2.50	1 / 0	19.95	22.45	0.176	23.00	-0.55
		3695.0	2.50	1 / 0	19.94	22.44	0.175	23.00	-0.57
	16-QAM	3625.0	2.50	1 / 25	19.47	21.97	0.157	23.00	-1.03
	64-QAM	3555.0	2.50	1 / 25	19.01	21.51	0.141	23.00	-1.50
	256-QAM	3555.0	2.50	1 / 25	18.57	21.07	0.128	23.00	-1.93
15 MHz	QPSK	3557.5	2.50	1 / 0	19.99	22.49	0.178	23.00	-0.51
		3625.0	2.50	1 / 37	19.96	22.46	0.176	23.00	-0.54
		3692.5	2.50	1 / 37	19.86	22.36	0.172	23.00	-0.65
	16-QAM	3557.5	2.50	1 / 0	19.46	21.96	0.157	23.00	-1.04
	64-QAM	3692.5	2.50	1 / 0	18.96	21.46	0.140	23.00	-1.54
	256-QAM	3625.0	2.50	1 / 74	18.51	21.01	0.126	23.00	-1.99
20 MHz	QPSK	3560.0	2.50	1 / 99	19.91	22.41	0.174	23.00	-0.59
		3625.0	2.50	1 / 0	19.86	22.36	0.172	23.00	-0.64
		3690.0	2.50	1 / 50	19.92	22.42	0.175	23.00	-0.58
	16-QAM	3690.0	2.50	1 / 50	19.56	22.06	0.161	23.00	-0.94
	64-QAM	3690.0	2.50	1 / 50	19.07	21.57	0.143	23.00	-1.44
	256-QAM	3560.0	2.50	1 / 50	18.66	21.16	0.131	23.00	-1.84

Table 7-7. EIRP Data (LTE Band 48)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
10 MHz	π/2 BPSK	3555.0	2.50	1 / 22	19.93	22.43	0.175	23.00	-0.57
		3625.0	2.50	1 / 22	19.99	22.49	0.178	23.00	-0.51
		3695.0	2.50	1 / 12	19.96	22.46	0.176	23.00	-0.54
	QPSK	3555.0	2.50	1 / 12	19.94	22.44	0.176	23.00	-0.56
		3625.0	2.50	1 / 22	20.00	22.50	0.178	23.00	-0.50
		3695.0	2.50	1 / 1	19.87	22.37	0.172	23.00	-0.64
	16-QAM	3625.0	2.50	1 / 22	19.72	22.22	0.167	23.00	-0.78
	64-QAM	3625.0	2.50	1 / 1	19.42	21.92	0.156	23.00	-1.08
	256-QAM	3625.0	2.50	1 / 1	19.15	21.65	0.146	23.00	-1.36
15 MHz	π/2 BPSK	3557.5	2.50	1 / 36	19.89	22.39	0.174	23.00	-0.61
		3625.0	2.50	1 / 18	19.99	22.49	0.178	23.00	-0.51
		3692.5	2.50	1 / 18	19.93	22.43	0.175	23.00	-0.57
	QPSK	3557.5	2.50	1 / 18	19.98	22.48	0.177	23.00	-0.52
		3625.0	2.50	1 / 1	19.98	22.48	0.177	23.00	-0.52
		3692.5	2.50	1 / 36	19.86	22.36	0.172	23.00	-0.64
	16-QAM	3625.0	2.50	1 / 36	19.70	22.20	0.166	23.00	-0.80
	64-QAM	3625.0	2.50	1 / 36	19.41	21.91	0.155	23.00	-1.09
	256-QAM	3625.0	2.50	1 / 36	19.16	21.66	0.146	23.00	-1.34
20 MHz	π/2 BPSK	3560.0	2.50	1 / 49	19.94	22.44	0.175	23.00	-0.56
		3625.0	2.50	1 / 25	19.89	22.39	0.173	23.00	-0.61
		3690.0	2.50	1 / 25	19.96	22.46	0.176	23.00	-0.54
	QPSK	3560.0	2.50	1 / 1	19.99	22.49	0.177	23.00	-0.52
		3625.0	2.50	1 / 49	19.89	22.39	0.173	23.00	-0.61
		3690.0	2.50	1 / 1	19.97	22.47	0.176	23.00	-0.54
	16-QAM	3560.0	2.50	1 / 1	19.71	22.21	0.166	23.00	-0.79
	64-QAM	3560.0	2.50	1 / 1	19.35	21.85	0.153	23.00	-1.15
	256-QAM	3690.0	2.50	1 / 1	19.03	21.53	0.142	23.00	-1.47
30 MHz	π/2 BPSK	3565.0	2.50	1 / 36	19.83	22.33	0.171	23.00	-0.67
		3625.0	2.50	1 / 36	20.00	22.50	0.178	23.00	-0.50
		3685.0	2.50	1 / 1	19.83	22.33	0.171	23.00	-0.67
	QPSK	3565.0	2.50	1 / 76	19.89	22.39	0.174	23.00	-0.61
		3625.0	2.50	1 / 1	19.98	22.48	0.177	23.00	-0.52
		3685.0	2.50	1 / 36	19.99	22.49	0.177	23.00	-0.51
	16-QAM	3625.0	2.50	1 / 1	19.72	22.22	0.167	23.00	-0.78
	64-QAM	3685.0	2.50	1 / 36	19.36	21.86	0.154	23.00	-1.14
	256-QAM	3625.0	2.50	1 / 1	19.10	21.60	0.145	23.00	-1.40
40 MHz	π/2 BPSK	3570.0	2.50	1 / 104	19.99	22.49	0.178	23.00	-0.51
		3625.0	2.50	1 / 50	19.95	22.45	0.176	23.00	-0.55
		3680.0	2.50	1 / 104	19.98	22.48	0.177	23.00	-0.52
	QPSK	3570.0	2.50	1 / 50	19.96	22.46	0.176	23.00	-0.55
		3625.0	2.50	1 / 50	19.86	22.36	0.172	23.00	-0.64
		3680.0	2.50	1 / 104	19.91	22.41	0.174	23.00	-0.59
	16-QAM	3680.0	2.50	1 / 104	19.65	22.15	0.164	23.00	-0.85
	64-QAM	3680.0	2.50	1 / 104	19.32	21.82	0.152	23.00	-1.18
	256-QAM	3680.0	2.50	1 / 104	19.03	21.53	0.142	23.00	-1.47

Table 7-8. EIRP Data (NR Band n48)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]			
			Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]							UL # RB	UL RB Offset	
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55457	3571.7	1	0	19.82	2.50	22.32	0.171	23.00	-0.68	
				55990	3625.0	1	99		56107	3636.7	1	0	19.82	2.50	22.32	0.171	23.00	-0.68	
			16-QAM	56640	3690.0	1	0	56523	3678.3	1	24	19.92	2.50	22.42	0.175	23.00	-0.58		
				56640	3690	100	0	56523	3678.3	100	0	19.66	2.50	22.16	0.165	23.00	-0.84		
				64-QAM	56640	3690	100	0	64-QAM	56523	3678.3	100	0	19.41	2.50	21.91	0.155	23.00	-1.09
				256-QAM	56640	3690	100	0	256-QAM	56523	3678.3	100	0	19.11	2.50	21.61	0.145	23.00	-1.39
Max	LTE B48	20MHz + 10MHz	QPSK	55340	3560.0	1	99	QPSK	55484	3574.4	1	0	19.50	2.50	22.00	0.159	23.00	-1.00	
				55990	3625.0	1	99		56134	3639.4	1	0	19.85	2.50	22.35	0.172	23.00	-0.65	
			16-QAM	56640	3690.0	1	0	56496	3675.6	1	49	19.55	2.50	22.05	0.160	23.00	-0.95		
				55990	3625	100	0	56134	3639.4	100	0	19.71	2.50	22.21	0.166	23.00	-0.79		
				64-QAM	55990	3625	100	0	64-QAM	56134	3639.4	100	0	19.47	2.50	21.97	0.157	23.00	-1.03
				256-QAM	55990	3625	100	0	256-QAM	56134	3639.4	100	0	19.25	2.50	21.75	0.150	23.00	-1.25
Max	LTE B48	20MHz + 15MHz	QPSK	55340	3560.0	1	99	QPSK	55511	3577.1	1	0	19.69	2.50	22.19	0.166	23.00	-0.81	
				55990	3625.0	1	99		56161	3642.1	1	0	19.98	2.50	22.48	0.177	23.00	-0.52	
			16-QAM	56640	3690.0	1	0	56469	3672.9	1	74	19.58	2.50	22.08	0.161	23.00	-0.92		
				55990	3625	100	0	56161	3642.1	100	0	19.70	2.50	22.20	0.168	23.00	-0.80		
				64-QAM	55990	3625	100	0	64-QAM	56161	3642.1	100	0	19.48	2.50	21.98	0.158	23.00	-1.02
				256-QAM	55990	3625	100	0	256-QAM	56161	3642.1	100	0	19.22	2.50	21.72	0.148	23.00	-1.28
Max	LTE B48	20MHz + 20MHz	QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	19.96	2.50	22.46	0.176	23.00	-0.54	
				55990	3625.0	1	99		56188	3644.8	1	0	19.81	2.50	22.31	0.170	23.00	-0.69	
			16-QAM	56640	3690.0	1	0	56442	3670.2	1	99	19.63	2.50	22.13	0.163	23.00	-0.87		
				55340	3560	100	0	55538	3579.8	100	0	19.71	2.50	22.21	0.166	23.00	-0.79		
				64-QAM	55340	3560	100	0	64-QAM	55538	3579.8	100	0	19.46	2.50	21.96	0.157	23.00	-1.05
				256-QAM	55340	3560	100	0	256-QAM	55538	3579.8	100	0	19.25	2.50	21.75	0.150	23.00	-1.25

Table 7-9. EIRP Data (ULCA LTE Band 48)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.4 Antenna 1a – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
5 MHz	QPSK	3552.5	1.30	1 / 12	21.09	22.39	0.173	23.00	-0.61
		3625.0	1.30	1 / 24	21.18	22.48	0.177	23.00	-0.52
		3697.5	1.30	1 / 0	21.11	22.41	0.174	23.00	-0.59
	16-QAM	3552.5	1.30	1 / 0	20.74	22.04	0.160	23.00	-0.96
	64-QAM	3625.0	1.30	1 / 12	20.28	21.58	0.144	23.00	-1.42
	256-QAM	3552.5	1.30	1 / 0	19.81	21.11	0.129	23.00	-1.90
10 MHz	QPSK	3555.0	1.30	1 / 0	21.12	22.42	0.175	23.00	-0.58
		3625.0	1.30	1 / 25	21.16	22.46	0.176	23.00	-0.54
		3695.0	1.30	1 / 0	21.09	22.39	0.173	23.00	-0.61
	16-QAM	3695.0	1.30	1 / 0	20.71	22.01	0.159	23.00	-0.99
	64-QAM	3695.0	1.30	1 / 0	20.30	21.60	0.145	23.00	-1.40
	256-QAM	3625.0	1.30	1 / 0	19.93	21.23	0.133	23.00	-1.77
15 MHz	QPSK	3557.5	1.30	1 / 37	21.19	22.49	0.177	23.00	-0.52
		3625.0	1.30	1 / 37	21.12	22.42	0.174	23.00	-0.58
		3692.5	1.30	1 / 37	21.03	22.33	0.171	23.00	-0.67
	16-QAM	3625.0	1.30	1 / 37	20.67	21.97	0.158	23.00	-1.03
	64-QAM	3625.0	1.30	1 / 37	20.10	21.40	0.138	23.00	-1.60
	256-QAM	3625.0	1.30	1 / 37	19.67	20.97	0.125	23.00	-2.03
20 MHz	QPSK	3560.0	1.30	1 / 50	21.11	22.41	0.174	23.00	-0.59
		3625.0	1.30	1 / 50	21.09	22.39	0.174	23.00	-0.61
		3690.0	1.30	1 / 50	20.96	22.26	0.168	23.00	-0.74
	16-QAM	3560.0	1.30	1 / 50	20.61	21.91	0.155	23.00	-1.09
	64-QAM	3690.0	1.30	1 / 50	20.13	21.43	0.139	23.00	-1.57
	256-QAM	3625.0	1.30	1 / 50	19.63	20.93	0.124	23.00	-2.07

Table 7-10. EIRP Data (LTE Band 48)

FCC ID: BCGA3355		PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
10 MHz	π/2 BPSK	3555.0	1.30	1 / 1	21.11	22.41	0.174	23.00	-0.59
		3625.0	1.30	1 / 12	21.16	22.46	0.176	23.00	-0.54
		3695.0	1.30	1 / 1	21.15	22.45	0.176	23.00	-0.56
	QPSK	3555.0	1.30	1 / 12	21.05	22.35	0.172	23.00	-0.65
		3625.0	1.30	1 / 12	21.09	22.39	0.173	23.00	-0.61
		3695.0	1.30	1 / 12	21.15	22.45	0.176	23.00	-0.56
	16-QAM	3695.0	1.30	1 / 12	20.80	22.10	0.162	23.00	-0.90
	64-QAM	3625.0	1.30	1 / 22	20.46	21.76	0.150	23.00	-1.24
	256-QAM	3695.0	1.30	1 / 1	20.20	21.50	0.141	23.00	-1.50
15 MHz	π/2 BPSK	3557.5	1.30	1 / 18	21.20	22.50	0.178	23.00	-0.50
		3625.0	1.30	1 / 1	21.16	22.46	0.176	23.00	-0.54
		3692.5	1.30	1 / 1	21.20	22.50	0.178	23.00	-0.50
	QPSK	3557.5	1.30	1 / 36	21.02	22.32	0.170	23.00	-0.68
		3625.0	1.30	1 / 36	21.08	22.38	0.173	23.00	-0.62
		3692.5	1.30	1 / 18	21.04	22.34	0.171	23.00	-0.66
	16-QAM	3625.0	1.30	1 / 36	20.82	22.12	0.163	23.00	-0.88
	64-QAM	3625.0	1.30	1 / 36	20.50	21.80	0.151	23.00	-1.20
	256-QAM	3692.5	1.30	1 / 18	20.15	21.45	0.140	23.00	-1.55
20 MHz	π/2 BPSK	3560.0	1.30	1 / 1	21.14	22.44	0.175	23.00	-0.56
		3625.0	1.30	1 / 49	21.07	22.37	0.172	23.00	-0.64
		3690.0	1.30	1 / 25	21.19	22.49	0.177	23.00	-0.51
	QPSK	3560.0	1.30	1 / 1	21.18	22.48	0.177	23.00	-0.52
		3625.0	1.30	1 / 49	21.16	22.46	0.176	23.00	-0.54
		3690.0	1.30	1 / 25	21.08	22.38	0.173	23.00	-0.62
	16-QAM	3560.0	1.30	1 / 25	20.88	22.18	0.165	23.00	-0.82
	64-QAM	3560.0	1.30	1 / 25	20.53	21.83	0.152	23.00	-1.18
	256-QAM	3560.0	1.30	1 / 25	20.26	21.56	0.143	23.00	-1.44
30 MHz	π/2 BPSK	3565.0	1.30	1 / 36	21.15	22.45	0.176	23.00	-0.55
		3625.0	1.30	1 / 36	21.20	22.50	0.178	23.00	-0.50
		3685.0	1.30	1 / 76	21.19	22.49	0.177	23.00	-0.52
	QPSK	3565.0	1.30	1 / 36	21.17	22.47	0.177	23.00	-0.53
		3625.0	1.30	1 / 36	21.08	22.38	0.173	23.00	-0.62
		3685.0	1.30	1 / 76	21.18	22.48	0.177	23.00	-0.52
	16-QAM	3565.0	1.30	1 / 36	20.91	22.21	0.166	23.00	-0.79
	64-QAM	3565.0	1.30	1 / 36	20.65	21.95	0.157	23.00	-1.05
	256-QAM	3565.0	1.30	1 / 36	20.39	21.69	0.147	23.00	-1.31
40 MHz	π/2 BPSK	3570.0	1.30	1 / 104	21.17	22.47	0.177	23.00	-0.53
		3625.0	1.30	1 / 104	21.05	22.35	0.172	23.00	-0.65
		3680.0	1.30	1 / 50	21.19	22.49	0.178	23.00	-0.51
	QPSK	3570.0	1.30	1 / 1	21.14	22.44	0.175	23.00	-0.56
		3625.0	1.30	1 / 104	21.17	22.47	0.176	23.00	-0.53
		3680.0	1.30	1 / 104	21.13	22.43	0.175	23.00	-0.57
	16-QAM	3625.0	1.30	1 / 104	20.88	22.18	0.165	23.00	-0.82
	64-QAM	3625.0	1.30	1 / 104	20.61	21.91	0.155	23.00	-1.09
	256-QAM	3570.0	1.30	1 / 1	20.24	21.54	0.143	23.00	-1.46

Table 7-11. EIRP Data (NR Band n48)

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Power State	Band	Bandwidth (PCC + SCC)	Modulation	PCC				Modulation	SCC				ULCA Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
				UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset		UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset						
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55457	3571.7	1	0	18.42	1.30	19.72	0.094	23.00	-3.29
				55990	3625.0	1	99		56107	3636.7	1	0	21.18	1.30	22.48	0.177	23.00	-0.52
			16-QAM	56640	3690.0	1	0	56523	3678.3	1	24	18.00	1.30	19.30	0.085	23.00	-3.70	
				55990	3625	100	0	QPSK	56107	3636.7	100	0	19.22	1.30	20.52	0.113	23.00	-2.49
				55990	3625	100	0	16-QAM	56107	3636.7	100	0	18.93	1.30	20.23	0.106	23.00	-2.77
				64-QAM	55990	3625	100	0	64-QAM	56107	3636.7	100	0	18.71	1.30	20.01	0.100	23.00
Max	LTE B48	20MHz + 10MHz	QPSK	55340	3560.0	1	99	QPSK	55484	3574.4	1	0	17.28	1.30	18.58	0.072	23.00	-4.42
				55990	3625.0	1	99		56134	3639.4	1	0	21.18	1.30	22.48	0.177	23.00	-0.52
			16-QAM	56640	3690.0	1	0	56496	3675.6	1	49	17.44	1.30	18.74	0.075	23.00	-4.26	
				55990	3625	100	0	QPSK	56134	3639.4	100	0	18.66	1.30	19.96	0.099	23.00	-3.04
				55990	3625	100	0	16-QAM	56134	3639.4	100	0	18.36	1.30	19.66	0.093	23.00	-3.34
				64-QAM	55990	3625	100	0	64-QAM	56134	3639.4	100	0	18.07	1.30	19.37	0.086	23.00
Max	LTE B48	20MHz + 15MHz	QPSK	55340	3560.0	1	99	QPSK	55511	3577.1	1	0	17.33	1.30	18.63	0.073	23.00	-4.37
				55990	3625.0	1	99		56161	3642.1	1	0	21.16	1.30	22.46	0.176	23.00	-0.55
			16-QAM	56640	3690.0	1	0	56469	3672.9	1	74	17.33	1.30	18.63	0.073	23.00	-4.37	
				55990	3625	100	0	QPSK	56161	3642.1	100	0	18.69	1.30	19.99	0.100	23.00	-3.01
				55990	3625	100	0	16-QAM	56161	3642.1	100	0	18.40	1.30	19.70	0.093	23.00	-3.30
				64-QAM	55990	3625	100	0	64-QAM	56161	3642.1	100	0	18.20	1.30	19.50	0.089	23.00
Max	LTE B48	20MHz + 20MHz	QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	18.94	1.30	20.24	0.106	23.00	-2.76
				55990	3625.0	1	99		56188	3644.8	1	0	20.99	1.30	22.29	0.169	23.00	-0.71
			16-QAM	56640	3690.0	1	0	56442	3670.2	1	99	17.47	1.30	18.77	0.075	23.00	-4.23	
				55990	3625	100	0	QPSK	56188	3644.8	100	0	18.66	1.30	19.96	0.099	23.00	-3.04
				55990	3625	100	0	16-QAM	56188	3644.8	100	0	18.42	1.30	19.72	0.094	23.00	-3.28
				64-QAM	55990	3625	100	0	64-QAM	56188	3644.8	100	0	18.17	1.30	19.47	0.089	23.00
Max	LTE B48	20MHz + 20MHz	QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	18.94	1.30	20.24	0.106	23.00	-2.76
				55990	3625.0	1	99		56188	3644.8	1	0	20.99	1.30	22.29	0.169	23.00	-0.71
			16-QAM	56640	3690.0	1	0	56442	3670.2	1	99	17.47	1.30	18.77	0.075	23.00	-4.23	
				55990	3625	100	0	QPSK	56188	3644.8	100	0	18.66	1.30	19.96	0.099	23.00	-3.04
				55990	3625	100	0	16-QAM	56188	3644.8	100	0	18.42	1.30	19.72	0.094	23.00	-3.28
				64-QAM	55990	3625	100	0	64-QAM	56188	3644.8	100	0	18.17	1.30	19.47	0.089	23.00

Table 7-12. EIRP Data (ULCA LTE Band 48)

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7.7 Radiated Spurious Emissions

~~§2.1053~~ §96.41(e)

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26-2015

TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize

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Test Setup

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

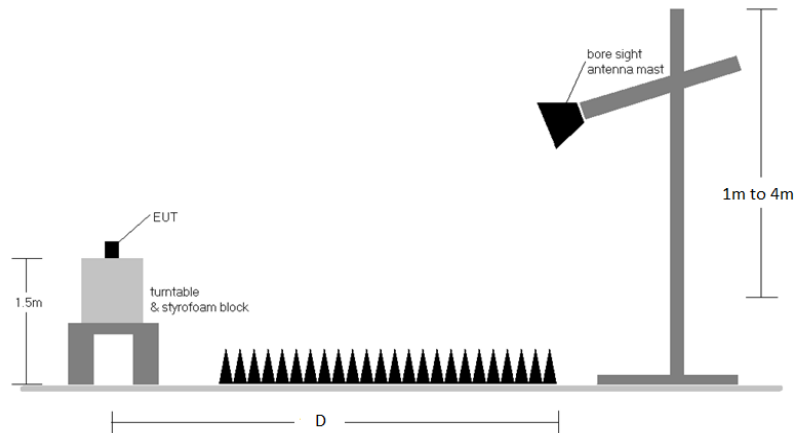


Figure 7-11. Test Instrument & Measurement Setup

Test Notes

- Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below. 1RB config was found and reported as a worst case RB size.
- This unit was tested with its standard battery.
- The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- No significant emissions were found for below 1GHz measurement.
- Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- For pre-scans 1-18GHz, the RBW is set to 1MHz and VBW to 30kHz. For final measurements above 1GHz, the RBW is set to 1MHz and VBW to 3MHz when measuring with an RMS detector and max hold trace.
- Uplink carrier aggregation intra-band radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.

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7.7.1 Antenna 3b Radiated Spurious Emissions Measurements

LTE Band 48

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.68	6.59	34.92	-60.34	-40.00	-20.34
10680.0	H	-	-	-79.61	8.31	35.70	-59.56	-40.00	-19.56
14240.0	H	-	-	-82.47	13.49	38.03	-57.23	-40.00	-17.23
3252.8	H	124	308	-74.25	11.27	44.02	-51.24	-40.00	-11.24
3867.7	V	392	166	-76.12	13.19	44.07	-51.18	-40.00	-11.18

Table 7-13. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.78	6.48	34.70	-60.56	-40.00	-20.56
10875.0	V	-	-	-80.47	9.44	35.97	-59.29	-40.00	-19.29
14500.0	H	-	-	-83.05	13.75	37.71	-57.55	-40.00	-17.55
3326.3	V	339	177	-73.21	11.55	45.34	-49.92	-40.00	-9.92
3686.3	V	308	170	-76.03	12.29	43.26	-51.99	-40.00	-11.99

Table 7-14. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

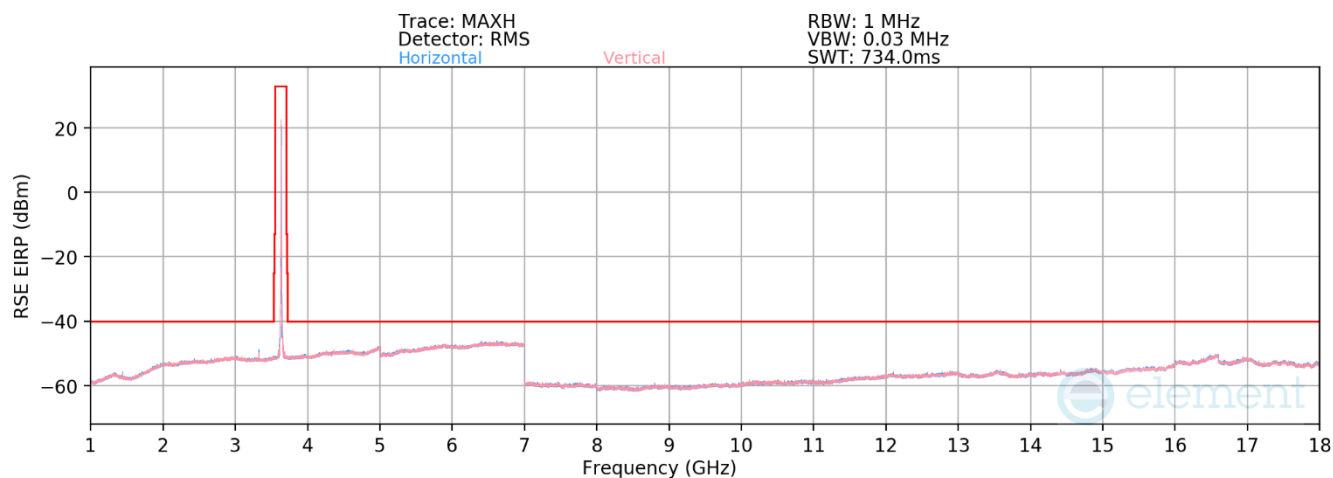
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-78.27	6.05	34.78	-60.48	-40.00	-20.48
11070.0	H	-	-	-80.52	9.02	35.50	-59.76	-40.00	-19.76
14760.0	V	-	-	-83.29	14.84	38.56	-56.70	-40.00	-16.70
3383.0	V	343	168	-72.59	11.50	45.91	-49.35	-40.00	-9.35
3997.1	V	395	152	-76.17	13.42	44.25	-51.01	-40.00	-11.01

Table 7-15. Radiated Spurious Data (LTE Band 48 – High Channel)

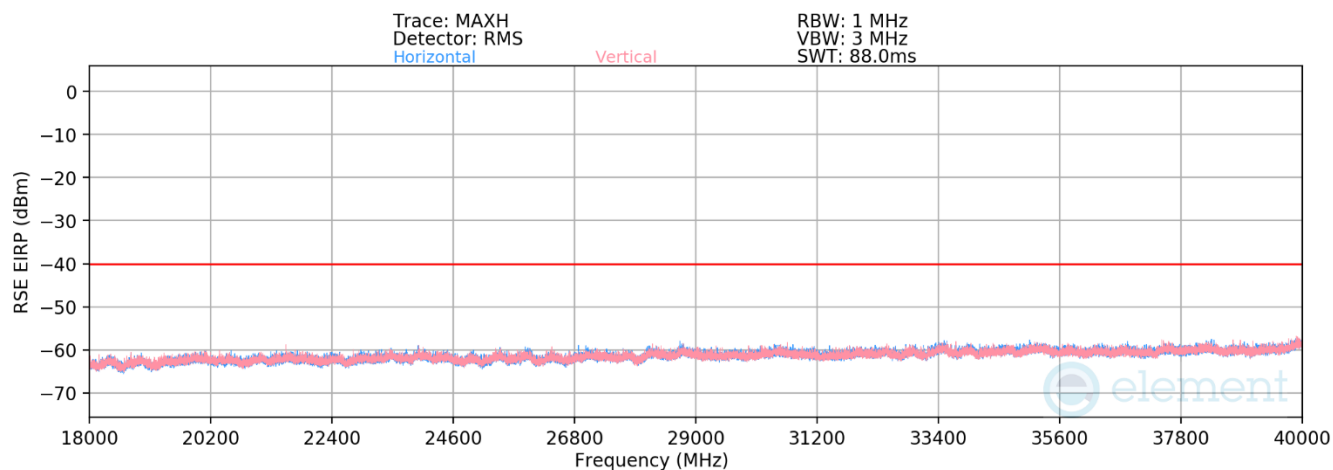
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ULCA LTE Band 48



Plot 7-162. Radiated Spurious Plot 1 – 18GHz (ULCA LTE Band 48)



Plot 7-163. Radiated Spurious Plot 18 – 40GHz (ULCA LTE Band 48)

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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.86	6.59	34.73	-60.52	-40.00	-20.52
10680.0	H	-	-	-80.48	8.64	35.16	-60.10	-40.00	-20.10
14240.0	V	-	-	-82.65	13.56	37.91	-57.34	-40.00	-17.34
3262.0	H	118	308	-73.45	11.33	44.88	-50.38	-40.00	-10.38
3686.0	H	155	14	-72.91	10.01	44.10	-51.16	-40.00	-11.16

Table 7-16. Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.84	6.57	34.73	-60.52	-40.00	-20.52
10875.0	H	-	-	-80.69	9.44	35.75	-59.51	-40.00	-19.51
14500.0	H	-	-	-83.02	13.76	37.73	-57.52	-40.00	-17.52
3326.6	V	327	180	-71.70	9.21	44.51	-50.75	-40.00	-10.75
3941.0	V	260	178	-73.68	15.06	48.38	-46.87	-40.00	-6.87

Table 7-17. Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-78.37	6.05	34.69	-60.57	-40.00	-20.57
11070.0	H	-	-	-80.59	8.99	35.40	-59.86	-40.00	-19.86
14760.0	V	-	-	-83.10	14.57	38.47	-56.79	-40.00	-16.79
3373.4	V	350	173	-70.70	9.10	45.40	-49.86	-40.00	-9.86
3988.0	V	340	149	-74.67	10.51	42.84	-52.42	-40.00	-12.42

Table 7-18. Radiated Spurious Data (ULCA LTE Band 48– High Channel)

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NR Band n48

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.67	6.59	34.93	-60.33	-40.00	-20.33
10680.0	H	-	-	-80.10	8.56	35.46	-59.79	-40.00	-19.79
14240.0	V	-	-	-82.43	13.48	38.05	-57.21	-40.00	-17.21

Table 7-19. Radiated Spurious Data (NR Band n48 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.82	6.48	34.66	-60.59	-40.00	-20.59
10875.0	H	-	-	-80.42	9.25	35.83	-59.43	-40.00	-19.43
14500.0	V	-	-	-83.08	13.70	37.62	-57.64	-40.00	-17.64

Table 7-20. Radiated Spurious Data (NR Band n48 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-78.65	6.24	34.59	-60.67	-40.00	-20.67
11070.0	V	-	-	-80.47	9.01	35.54	-59.72	-40.00	-19.72
14760.0	V	-	-	-82.93	14.37	38.44	-56.82	-40.00	-16.82

Table 7-21. Radiated Spurious Data (NR Band n48 – High Channel)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.2 Antenna 2a Radiated Spurious Emissions Measurements

LTE Band 48

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.81	6.68	34.88	-60.38	-40.00	-20.38
10680.0	H	-	-	-80.13	8.23	35.10	-60.16	-40.00	-20.16
14240.0	V	-	-	-82.96	13.70	37.74	-57.52	-40.00	-17.52
3252.9	V	306	18	-72.32	11.27	45.95	-49.31	-40.00	-9.31
3867.0	V	270	12	-76.05	13.20	44.15	-51.11	-40.00	-11.11

Table 7-22. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-78.81	6.48	34.67	-60.59	-40.00	-20.59
10875.0	H	-	-	-80.34	9.16	35.82	-59.44	-40.00	-19.44
14500.0	H	-	-	-83.33	13.74	37.41	-57.85	-40.00	-17.85
3317.9	V	352	15	-72.83	11.57	45.74	-49.52	-40.00	-9.52
3932.3	V	259	17	-75.66	13.19	44.53	-50.72	-40.00	-10.72

Table 7-23. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-78.48	6.05	34.57	-60.69	-40.00	-20.69
11070.0	V	-	-	-80.53	9.02	35.49	-59.77	-40.00	-19.77
14760.0	V	-	-	-83.41	14.84	38.44	-56.82	-40.00	-16.82
3382.7	V	289	13	-72.55	11.50	45.95	-49.31	-40.00	-9.31
3997.3	V	299	14	-75.00	13.42	45.42	-49.84	-40.00	-9.84

Table 7-24. Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 48

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.80	6.69	34.89	-60.37	-40.00	-20.37
10680.0	V	-	-	-80.27	8.44	35.17	-60.09	-40.00	-20.09
14240.0	H	-	-	-82.50	13.44	37.93	-57.32	-40.00	-17.32
3261.5	V	339	16	-70.53	9.15	45.62	-49.64	-40.00	-9.64
3876.0	V	270	12	-73.99	10.33	43.34	-51.91	-40.00	-11.91

Table 7-25. Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-78.45	6.48	35.03	-60.23	-40.00	-20.23
10875.0	H	-	-	-80.55	9.44	35.88	-59.37	-40.00	-19.37
14500.0	V	-	-	-82.72	13.70	37.98	-57.28	-40.00	-17.28
3326.6	V	356	23	-69.81	9.21	46.40	-48.86	-40.00	-8.86
3940.6	V	374	3	-74.07	10.45	43.38	-51.88	-40.00	-11.88

Table 7-26. Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 99
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-78.44	6.16	34.71	-60.54	-40.00	-20.54
11070.0	H	-	-	-80.67	8.99	35.32	-59.93	-40.00	-19.93
14760.0	H	-	-	-83.17	14.57	38.41	-56.85	-40.00	-16.85
3373.4	V	349	15	-70.24	9.10	45.86	-49.40	-40.00	-9.40
3988.0	V	240	21	-74.68	10.51	42.83	-52.43	-40.00	-12.43

Table 7-27. Radiated Spurious Data (ULCA LTE Band 48– High Channel)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n48

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.63	6.59	34.97	-60.29	-40.00	-20.29
10680.0	V	-	-	-80.02	8.56	35.54	-59.72	-40.00	-19.72
14240.0	V	-	-	-82.46	13.44	37.98	-57.28	-40.00	-17.28

Table 7-28. Radiated Spurious Data (NR Band n48 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-78.78	6.48	34.70	-60.56	-40.00	-20.56
10875.0	V	-	-	-80.31	9.25	35.94	-59.32	-40.00	-19.32
14500.0	V	-	-	-82.78	13.74	37.95	-57.30	-40.00	-17.30

Table 7-29. Radiated Spurious Data (NR Band n48 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-78.55	6.14	34.59	-60.67	-40.00	-20.67
11070.0	V	-	-	-80.22	8.99	35.77	-59.49	-40.00	-19.49
14760.0	H	-	-	-82.89	14.37	38.48	-56.78	-40.00	-16.78

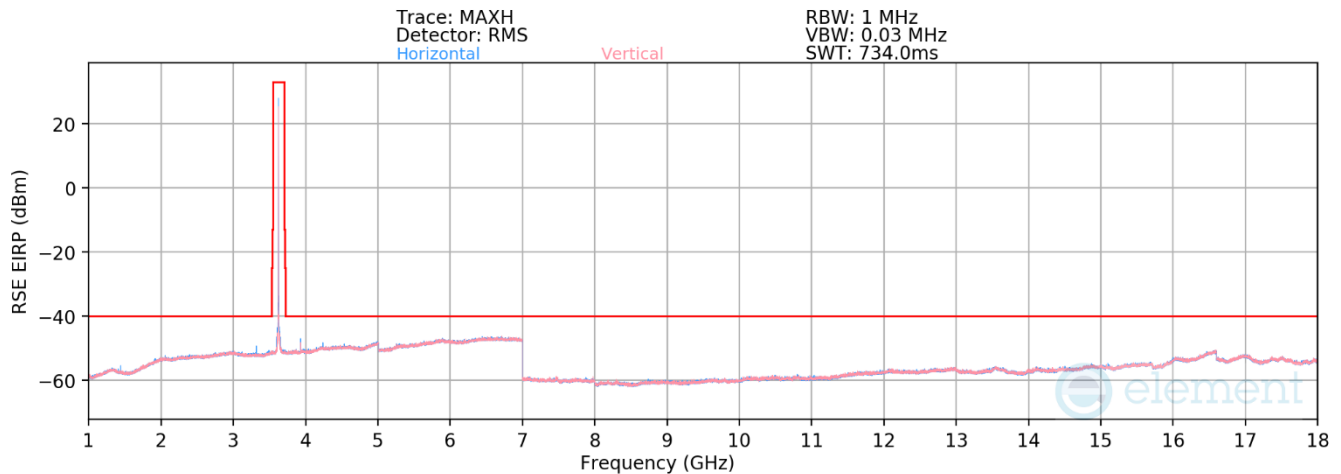
Table 7-30. Radiated Spurious Data (NR Band n48 – High Channel)

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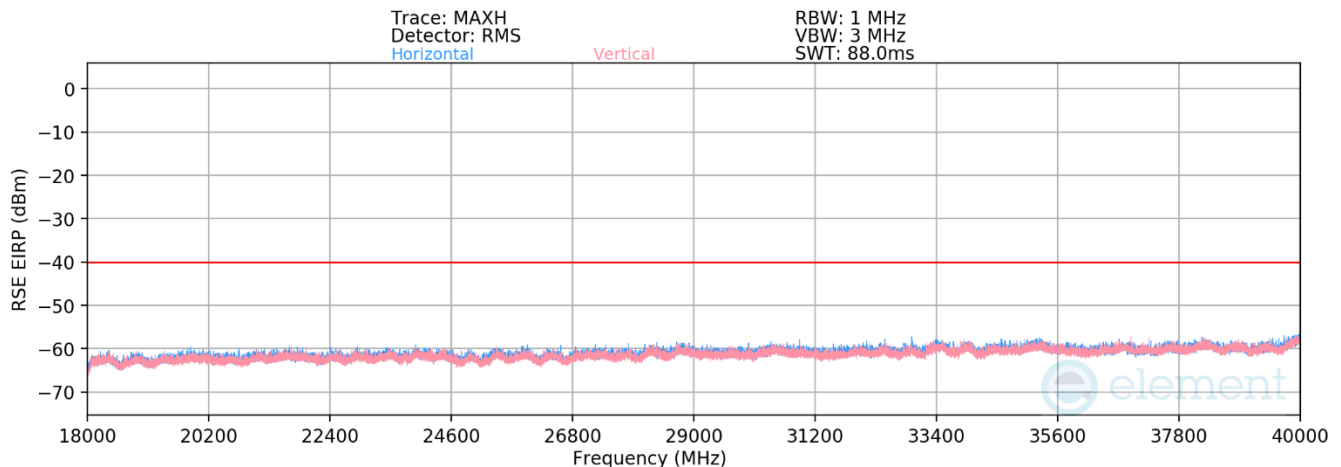
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7.7.3 Antenna 4 Radiated Spurious Emissions Measurements

LTE Band 48



Plot 7-164. Radiated Spurious Plot 1 – 18GHz (LTE Band 48)



Plot 7-165. Radiated Spurious Plot 18 – 40GHz (LTE Band 48)

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Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.87	6.69	34.82	-60.43	-40.00	-20.43
10680.0	V	-	-	-80.42	8.44	35.02	-60.24	-40.00	-20.24
14240.0	H	-	-	-82.87	13.70	37.82	-57.43	-40.00	-17.43
3252.5	V	383	201	-74.36	11.27	43.91	-51.35	-40.00	-11.35
3867.6	V	307	196	-74.87	13.19	45.32	-49.93	-40.00	-9.93

Table 7-31. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.76	6.51	34.75	-60.51	-40.00	-20.51
10875.0	V	-	-	-80.52	9.16	35.63	-59.63	-40.00	-19.63
14500.0	V	-	-	-83.59	13.75	37.16	-58.09	-40.00	-18.09
3318.0	H	107	159	-74.26	11.57	44.31	-50.95	-40.00	-10.95
3932.0	H	120	158	-72.77	13.19	47.42	-47.83	-40.00	-7.83

Table 7-32. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-78.54	6.05	34.51	-60.75	-40.00	-20.75
11070.0	H	-	-	-80.25	8.85	35.60	-59.66	-40.00	-19.66
14760.0	H	-	-	-83.20	14.84	38.64	-56.62	-40.00	-16.62
3383.0	H	148	156	-73.00	11.50	45.50	-49.76	-40.00	-9.76
3997.0	H	110	163	-74.20	13.42	46.22	-49.04	-40.00	-9.04

Table 7-33. Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 48

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.92	6.59	34.67	-60.59	-40.00	-20.59
10680.0	V	-	-	-80.12	8.64	35.53	-59.73	-40.00	-19.73
14240.0	H	-	-	-82.51	13.48	37.97	-57.29	-40.00	-17.29
3261.7	V	269	202	-74.24	9.15	41.91	-53.35	-40.00	-13.35
3876.1	V	312	199	-72.97	10.33	44.36	-50.89	-40.00	-10.89

Table 7-34. Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.82	6.57	34.75	-60.50	-40.00	-20.50
10875.0	V	-	-	-80.45	9.16	35.71	-59.55	-40.00	-19.55
14500.0	V	-	-	-82.75	13.76	38.01	-57.25	-40.00	-17.25
3326.6	V	378	206	-73.28	9.21	42.93	-52.33	-40.00	-12.33
3941.0	V	309	196	-73.35	10.45	44.10	-51.15	-40.00	-11.15

Table 7-35. Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 99
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-78.53	6.14	34.61	-60.65	-40.00	-20.65
11070.0	V	-	-	-80.50	8.99	35.49	-59.77	-40.00	-19.77
14760.0	H	-	-	-82.72	14.37	38.65	-56.61	-40.00	-16.61
3373.4	V	395	209	-71.94	9.10	44.16	-51.10	-40.00	-11.10
3988.0	V	281	176	-74.81	10.51	42.70	-52.56	-40.00	-12.56

Table 7-36. Radiated Spurious Data (ULCA LTE Band 48– High Channel)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT						Approved by: Technical Manager
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NR Band n48

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.66	6.65	34.99	-60.26	-40.00	-20.26
10680.0	H	-	-	-80.27	8.64	35.37	-59.89	-40.00	-19.89
14240.0	V	-	-	-82.78	13.56	37.78	-57.48	-40.00	-17.48

Table 7-37. Radiated Spurious Data (NR Band n48 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-78.72	6.51	34.79	-60.47	-40.00	-20.47
10875.0	H	-	-	-80.43	9.25	35.82	-59.44	-40.00	-19.44
14500.0	V	-	-	-83.32	13.74	37.42	-57.84	-40.00	-17.84

Table 7-38. Radiated Spurious Data (NR Band n48 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-78.52	6.16	34.63	-60.62	-40.00	-20.62
11070.0	V	-	-	-80.43	8.99	35.56	-59.70	-40.00	-19.70
14760.0	H	-	-	-82.91	14.37	38.45	-56.80	-40.00	-16.80

Table 7-39. Radiated Spurious Data (NR Band n48 – High Channel)

FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.4 Antenna 1a Radiated Spurious Emissions Measurements

LTE Band 48

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.84	6.71	34.87	-60.39	-40.00	-20.39
10680.0	V	-	-	-80.01	8.23	35.22	-60.04	-40.00	-20.04
14240.0	V	-	-	-82.90	13.70	37.80	-57.46	-40.00	-17.46
3253.0	H	116	25	-72.61	11.27	45.66	-49.60	-40.00	-9.60
3867.0	H	143	26	-75.02	13.20	45.18	-50.08	-40.00	-10.08

Table 7-40. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.77	6.48	34.71	-60.55	-40.00	-20.55
10875.0	V	-	-	-80.74	9.44	35.69	-59.56	-40.00	-19.56
14500.0	H	-	-	-83.28	13.70	37.42	-57.84	-40.00	-17.84
3318.0	H	111	13	-71.91	11.57	46.66	-49.60	-40.00	-9.60
3932.0	H	139	11	-75.89	13.19	44.30	-50.08	-40.00	-10.08

Table 7-41. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-78.41	6.05	34.65	-60.61	-40.00	-20.61
11070.0	H	-	-	-80.31	8.85	35.54	-59.72	-40.00	-19.72
14760.0	H	-	-	-83.26	14.84	38.58	-56.68	-40.00	-16.68
3383.0	H	101	20	-71.93	11.50	46.57	-48.69	-40.00	-8.69
3997.0	H	128	26	-75.73	13.42	44.69	-50.57	-40.00	-10.57

Table 7-42. Radiated Spurious Data (LTE Band 48 – High Channel)

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ULCA LTE Band 48

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.74	6.59	34.85	-60.41	-40.00	-20.41
10680.0	H	-	-	-80.49	8.56	35.07	-60.19	-40.00	-20.19
14240.0	H	-	-	-82.65	13.44	37.79	-57.47	-40.00	-17.47
3261.7	V	337	341	-73.51	11.33	44.82	-50.44	-40.00	-10.44
3876.5	V	260	355	-76.16	13.17	44.01	-51.25	-40.00	-11.25

Table 7-43. Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-78.86	6.48	34.62	-60.64	-40.00	-20.64
10875.0	V	-	-	-80.51	9.39	35.88	-59.38	-40.00	-19.38
14500.0	V	-	-	-82.89	13.76	37.86	-57.39	-40.00	-17.39
3326.5	V	267	335	-69.65	9.21	46.56	-48.70	-40.00	-8.70
3941.0	V	304	335	-72.74	10.46	44.72	-50.54	-40.00	-10.54

Table 7-44. Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 99
Modulation Signal:	QPSK

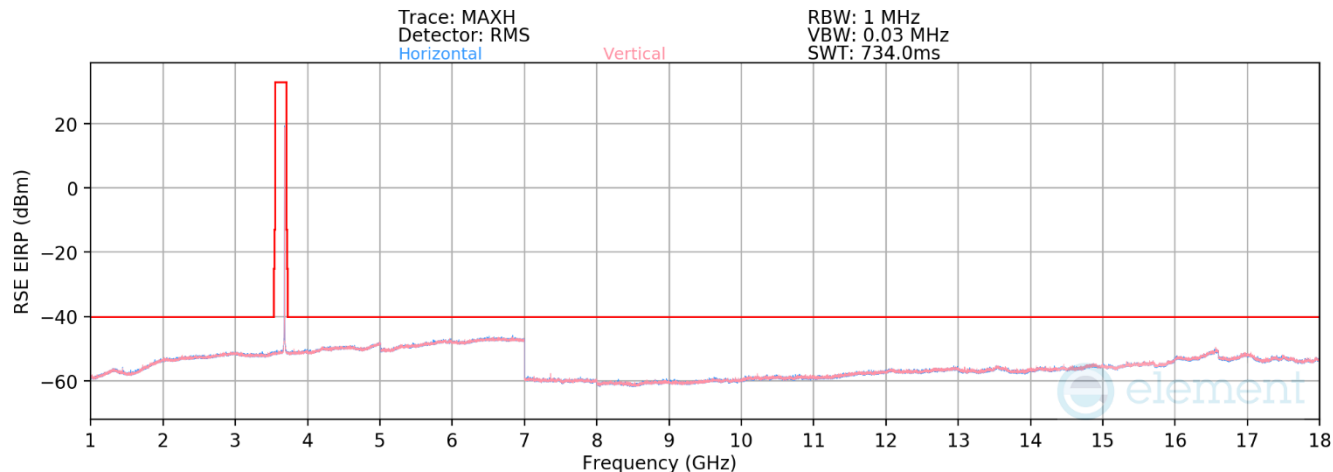
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-78.61	6.16	34.55	-60.71	-40.00	-20.71
11070.0	H	-	-	-80.35	8.99	35.64	-59.62	-40.00	-19.62
14760.0	V	-	-	-83.16	14.37	38.21	-57.05	-40.00	-17.05
3373.4	V	376	337	-70.11	9.16	46.05	-49.21	-40.00	-9.21
3988.0	V	321	336	-73.20	10.39	44.19	-51.07	-40.00	-11.07

Table 7-45. Radiated Spurious Data (ULCA LTE Band 48– High Channel)

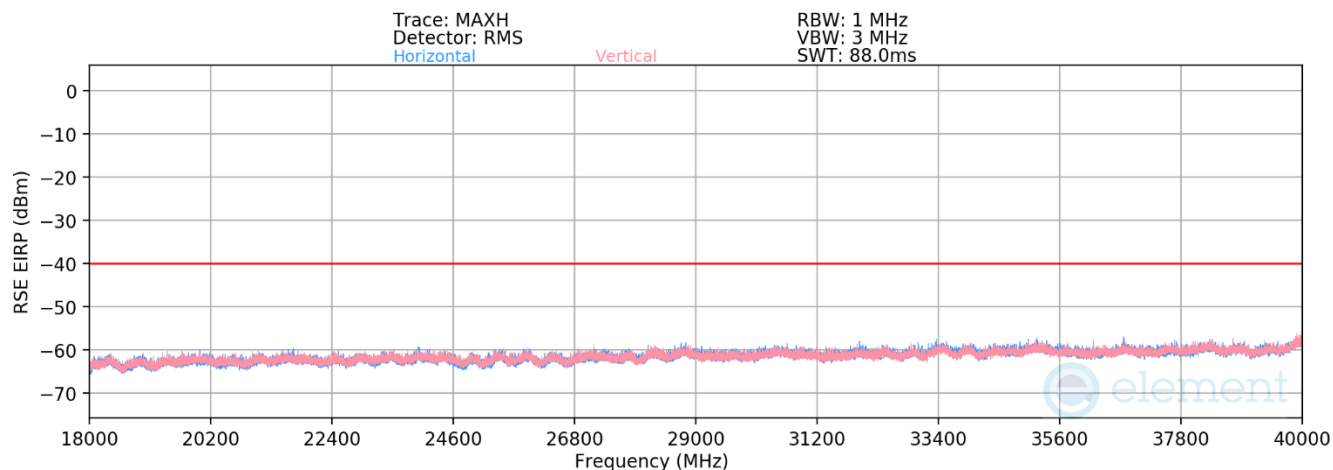
FCC ID: BCGA3355	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n48



Plot 7-166. Radiated Spurious Plot 1 – 18GHz (NR Band n48)



Plot 7-167. Radiated Spurious Plot 18 – 40GHz (NR Band n48)

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Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.44	6.59	35.15	-60.11	-40.00	-20.11
10680.0	V	-	-	-80.26	8.64	35.38	-59.87	-40.00	-19.87
14240.0	V	-	-	-82.52	13.44	37.92	-57.34	-40.00	-17.34

Table 7-46. Radiated Spurious Data (NR Band n48 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.68	6.51	34.83	-60.43	-40.00	-20.43
10875.0	V	-	-	-80.25	9.17	35.92	-59.34	-40.00	-19.34
14500.0	V	-	-	-82.84	13.70	37.85	-57.40	-40.00	-17.40

Table 7-47. Radiated Spurious Data (NR Band n48 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	261	227	-76.31	6.14	36.82	-58.43	-40.00	-18.43
11070.0	V	-	-	-80.54	8.99	35.45	-59.81	-40.00	-19.81
14760.0	H	-	-	-82.96	14.37	38.40	-56.85	-40.00	-16.85

Table 7-48. Radiated Spurious Data (NR Band n48 – High Channel)

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7.8 Frequency Stability / Temperature Variation

§2.1055

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

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

For Part 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

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

Test Setup

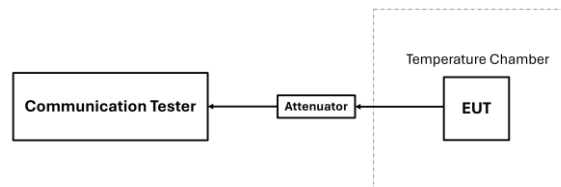


Figure 7-12. LTE Test Instrument & Measurement Setup

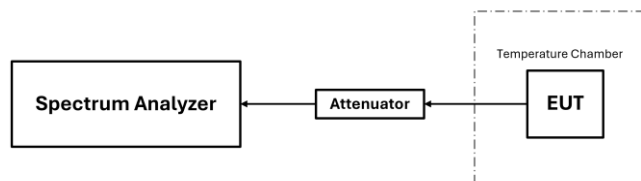


Figure 7-13. FR1 Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 48				
		Operating Band Lower Boundary (GHz)	3.550	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	3.55062243	-0.00062243
		- 20	3.55081373	-0.00081373
		- 10	3.55026501	-0.00026501
		0	3.55074660	-0.00074660
		+ 10	3.55040229	-0.00040229
		+ 20 (Ref)	3.55095428	-0.00095428
		+ 30	3.55025419	-0.00025419
		+ 40	3.55028122	-0.00028122
		+ 50	3.55088692	-0.00088692
Battery Endpoint	3.40	+ 20	3.55030976	-0.00030976

Table 49. LTE Band 48 Lower Boundary Frequency Stability Data

LTE Band 48				
		Operating Band Upper Boundary (GHz)	3.700	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	3.69925044	-0.00074956
		- 20	3.69994482	-0.00005518
		- 10	3.69945359	-0.00054641
		0	3.69923739	-0.00076261
		+ 10	3.69993662	-0.00006338
		+ 20 (Ref)	3.69921342	-0.00078658
		+ 30	3.69983124	-0.00016876
		+ 40	3.69913607	-0.00086393
		+ 50	3.69917522	-0.00082478
Battery Endpoint	3.40	+ 20	3.69928980	-0.00071020

Table 50. LTE Band 48 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n48				
		Operating Band Lower Boundary (GHz)	3.550	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	3.55044678	-0.00044678
		- 20	3.55073391	-0.00073391
		- 10	3.55087497	-0.00087497
		0	3.55079521	-0.00079521
		+ 10	3.55084705	-0.00084705
		+ 20 (Ref)	3.55090884	-0.00090884
		+ 30	3.55064672	-0.00064672
		+ 40	3.55097584	-0.00097584
		+ 50	3.55020750	-0.00020750
Battery Endpoint	3.40	+ 20	3.55098700	-0.00098700

Table 51. NR Band n48 Lower Boundary Frequency Stability Data

NR Band n48				
		Operating Band Upper Boundary (GHz)	3.700	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	3.69975759	-0.00024241
		- 20	3.69900619	-0.00099381
		- 10	3.69997952	-0.00002048
		0	3.69976827	-0.00023173
		+ 10	3.69919195	-0.00080805
		+ 20 (Ref)	3.69997749	-0.00002251
		+ 30	3.69952158	-0.00047842
		+ 40	3.69910723	-0.00089277
		+ 50	3.69904560	-0.00095440
Battery Endpoint	3.40	+ 20	3.69950337	-0.00049663

Table 52. NR Band n48 Upper Boundary Frequency Stability Data

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7.9 End User Device Additional Requirement (CBSD Protocol)

§96.47

Test Overview and Limit

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified CBSDs (AirSpan FCC ID(s): PIDAV1901 and PIDAV1500) as a companion device to show compliance with Part 96.47.

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

Test Procedure Used

KDB 940660 D01 v03

WINNF-TS-0122 v1.0.2

Test Setup/Method

The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification.

1. Run#1:
 - a. Setup WINNF.PT.C.HBT.1 with 3615 – 3635MHz.
 - b. Enable AP service from Ruckus Cloud management.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Ruckus Cloud management and check EUT stop transmission within 10s.
2. Run#2:
 - a. Setup WINNF.PT.C.HBT.1 with 3615MHz – 3635MHz.
 - b. Enable AP service from Ruckus Cloud management.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Ruckus Cloud management and check EUT stop transmission within 10s.

Test Notes

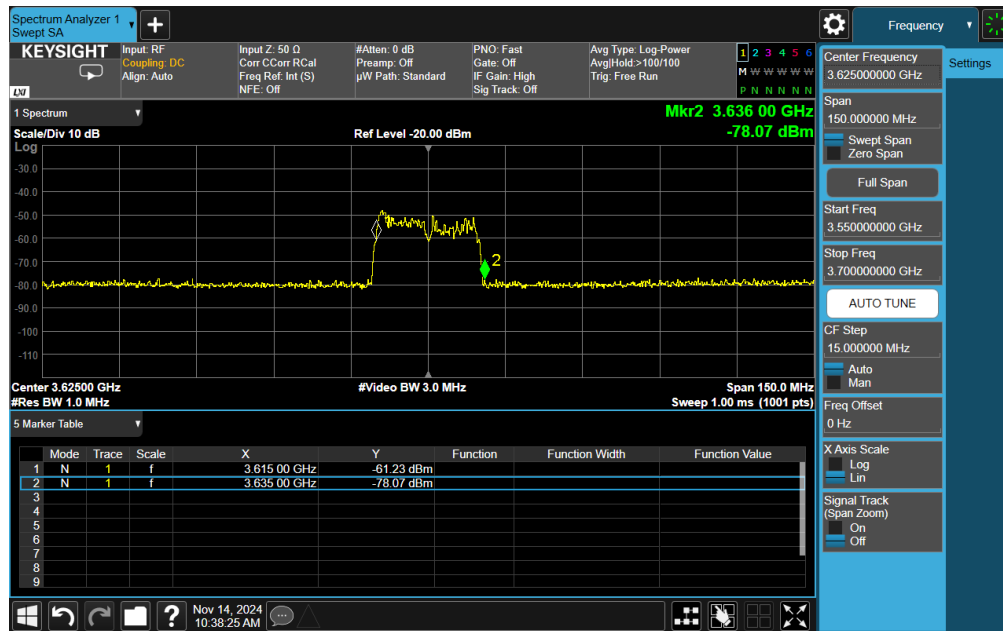
The EUT is an End User Device.

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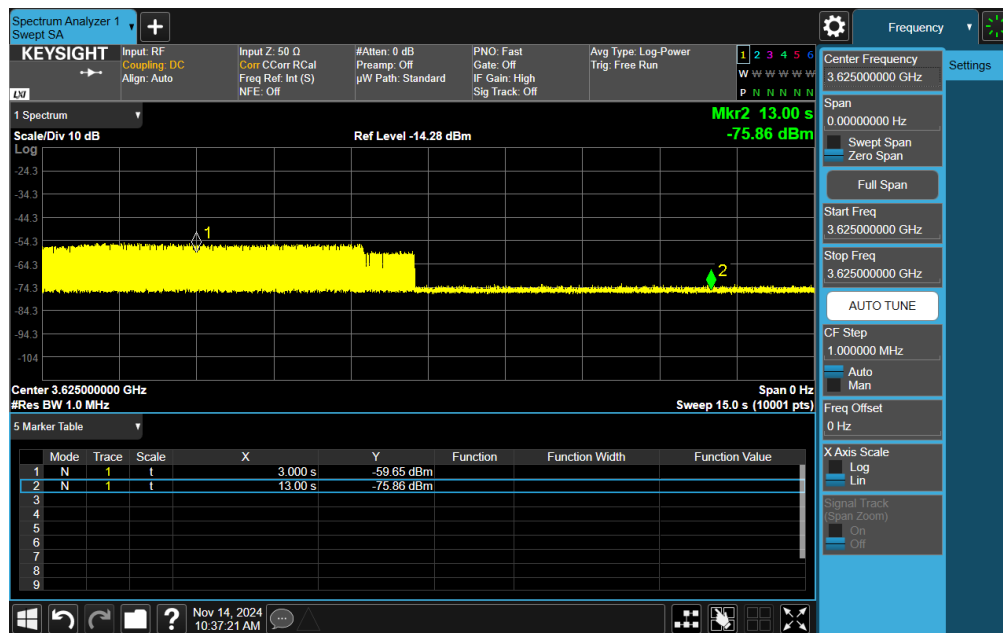
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Run#1 LTE-B48:

- Tx Frequency Set: 3615 – 3635MHz
- MaxEIRP Set: 10dBm/MHz



Plot 7-168. Run#1 End User Device Frequency of Operations



Plot 7-169. Run#1 End User Device Discontinues Operations within 10s

Note:

Marker 1: CBSD sends instructions to discontinue LTE operations.
 Marker 2: 10 seconds elapsed time from CBSD sending instructions to EUT.

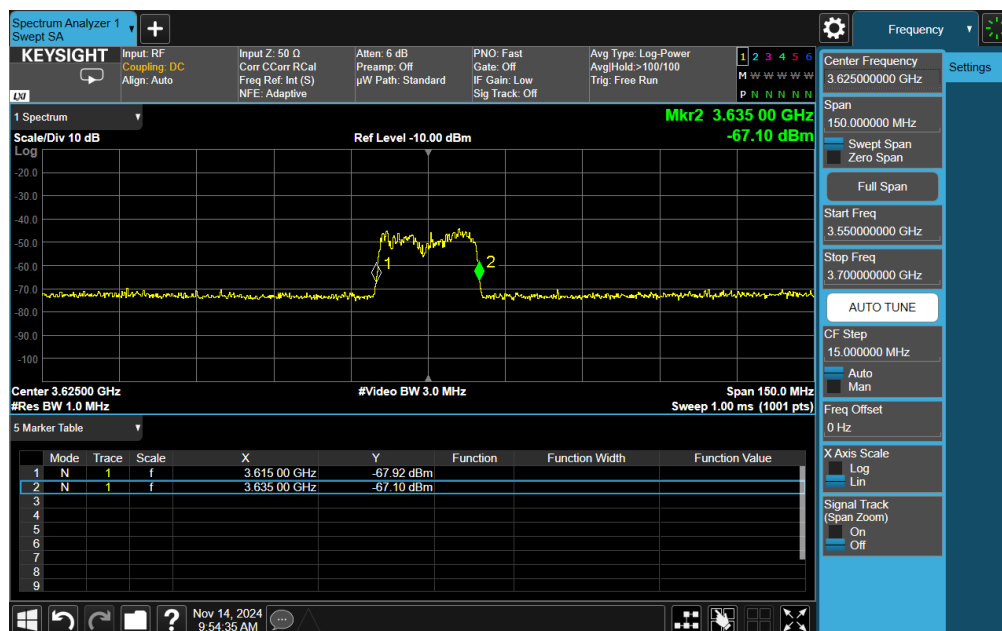
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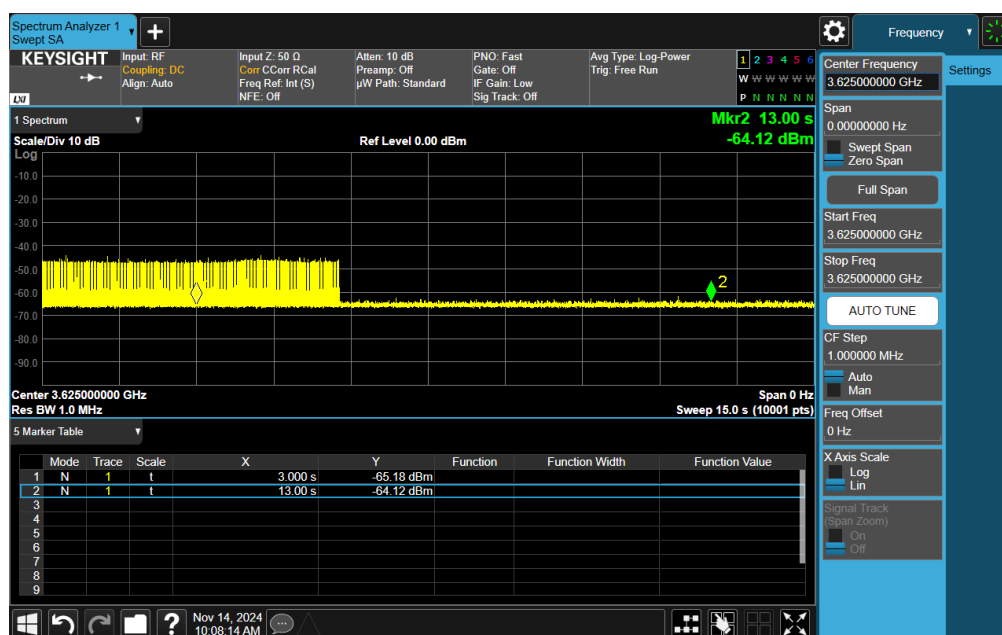
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Run#2 FR1-n48:

- Tx Frequency Set: 3615 – 3635MHz
- MaxEIRP Set: 10dBm/MHz



Plot 7-170. Run#2 End User Device Frequency of Operations



Plot 7-171. Run#2 End User Device Discontinues Operations within 10s

Note:

Marker 1: CBSD sends instructions to discontinue FR1 operations.

Marker 2: 10 seconds elapsed time from CBSD sending instructions to EUT.

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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: BCGA3355** complies with all the End User Device requirements of Part 96 of the FCC Rules.

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