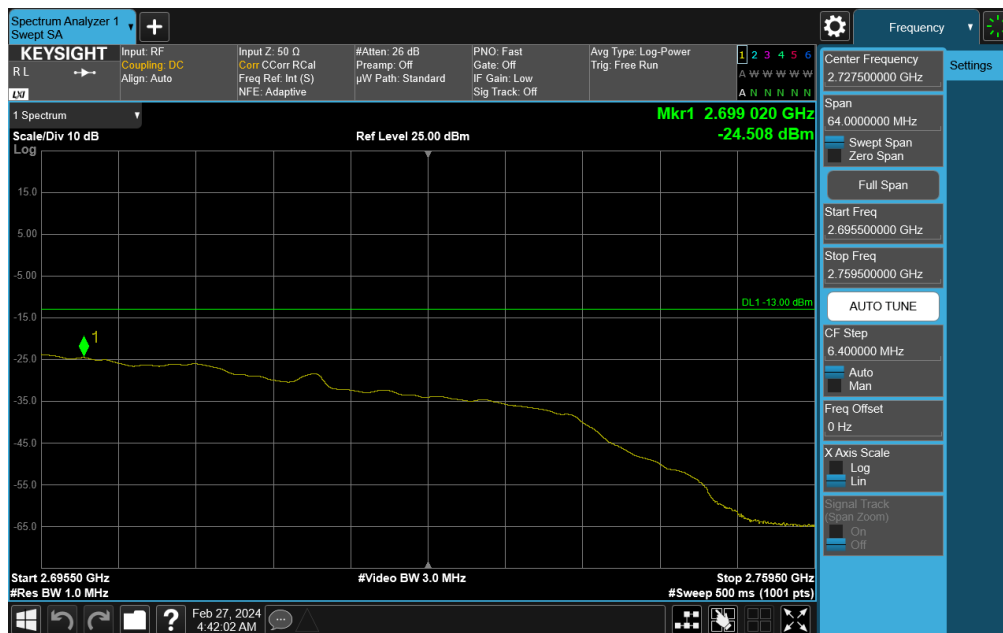
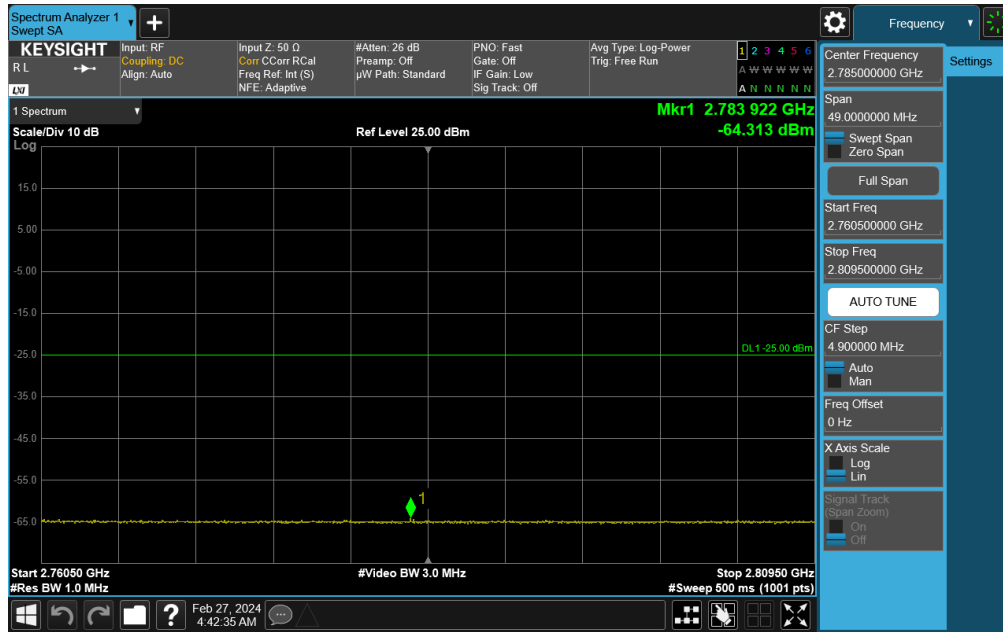


Plot 7-826. Upper Band Edge Plot (NR Band n41 - 70MHz DFT-s-OFDM QPSK – Full RB)

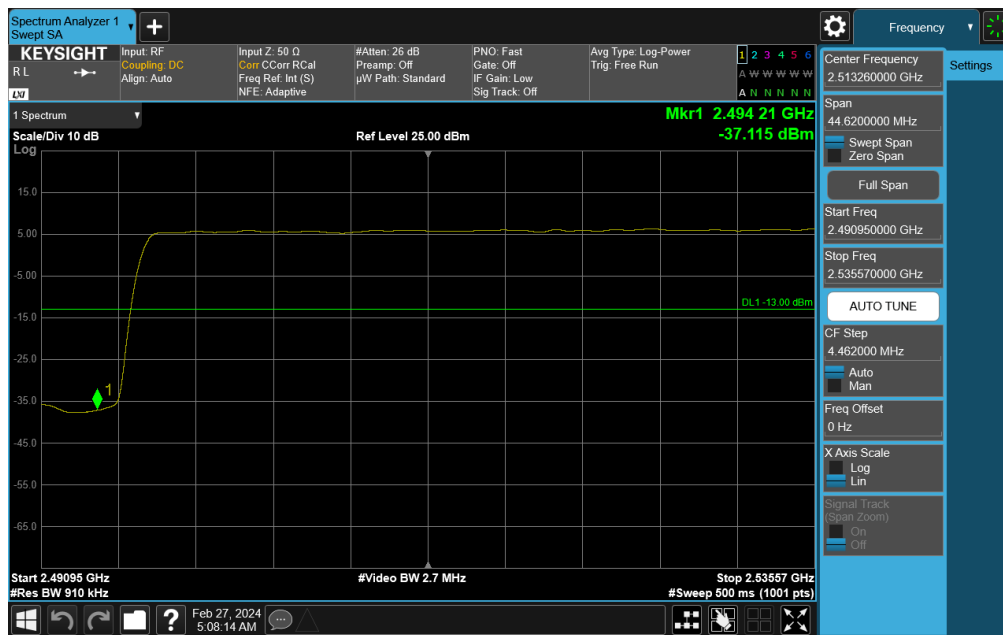


Plot 7-827. Upper Band Edge Plot (NR Band n41 - 70MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 439 of 569

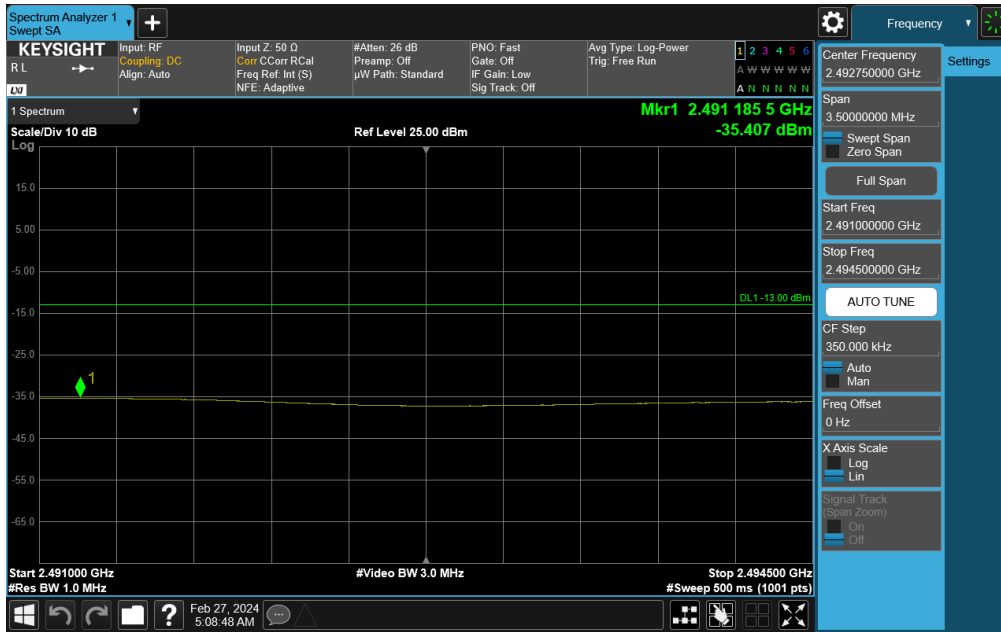


Plot 7-828. Upper Band Edge Plot (NR Band n41 - 70MHz DFT-s-OFDM QPSK – Full RB)

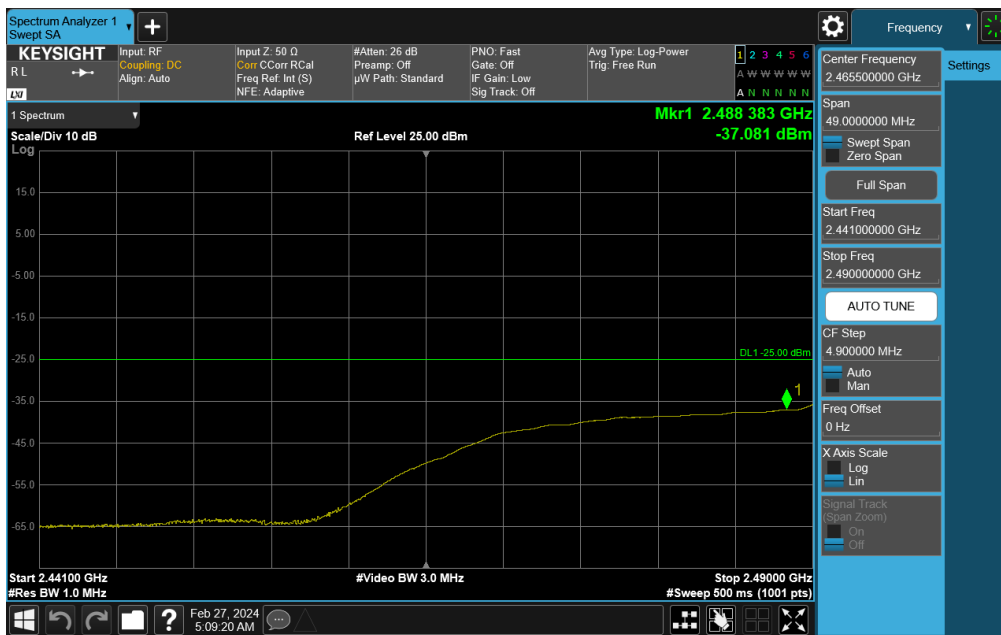


Plot 7-829. Lower Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 440 of 569

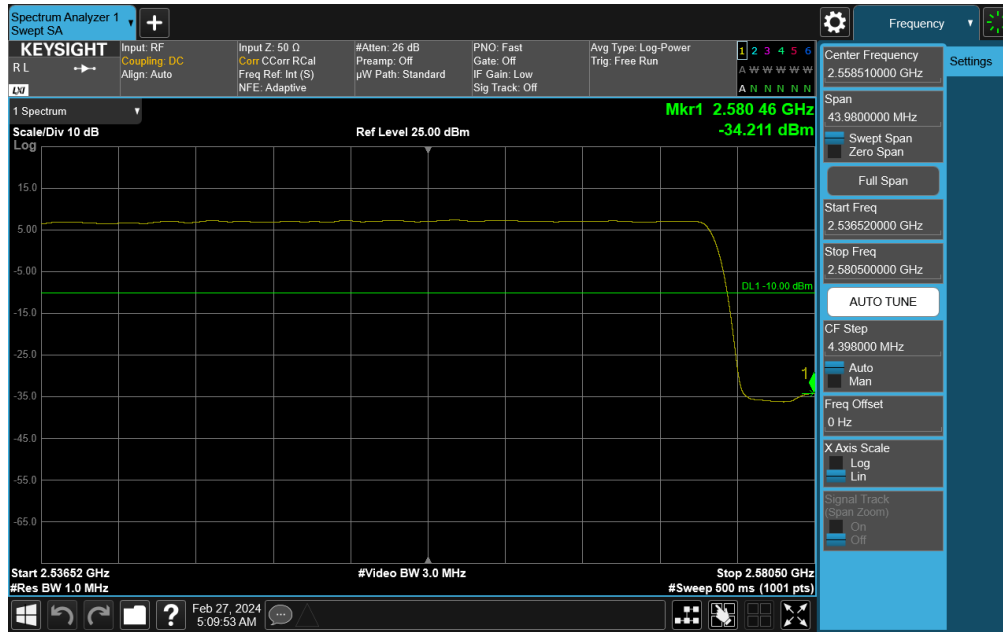


Plot 7-830. Lower Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

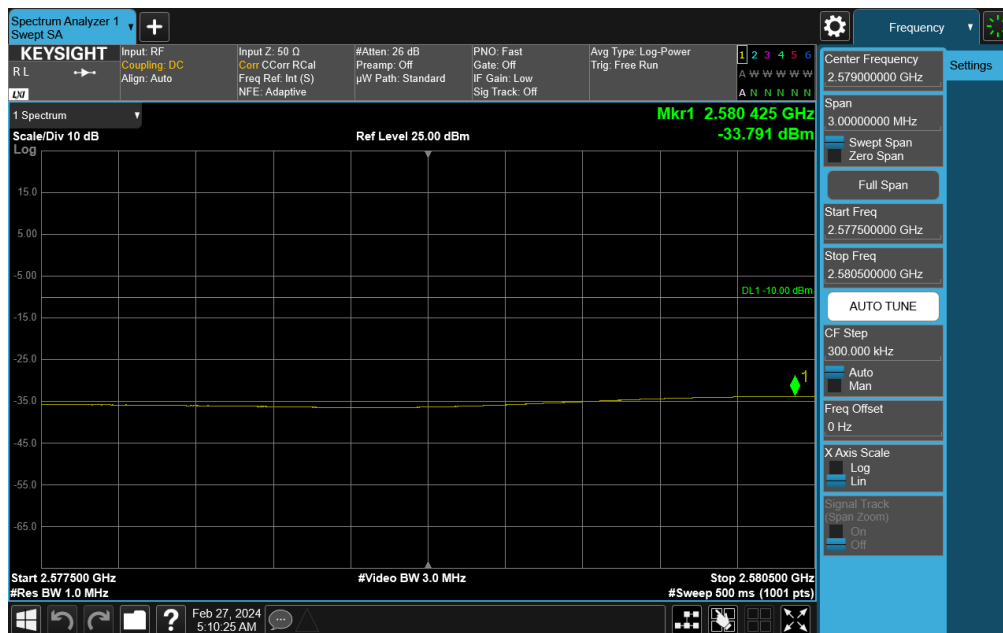


Plot 7-831. Lower Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 441 of 569

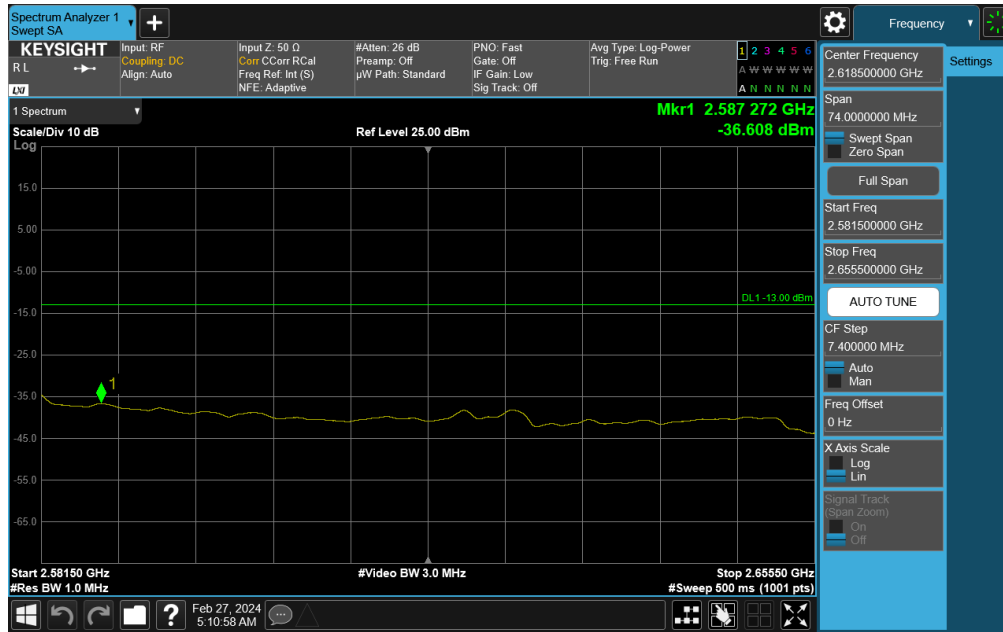


Plot 7-832. Lower Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

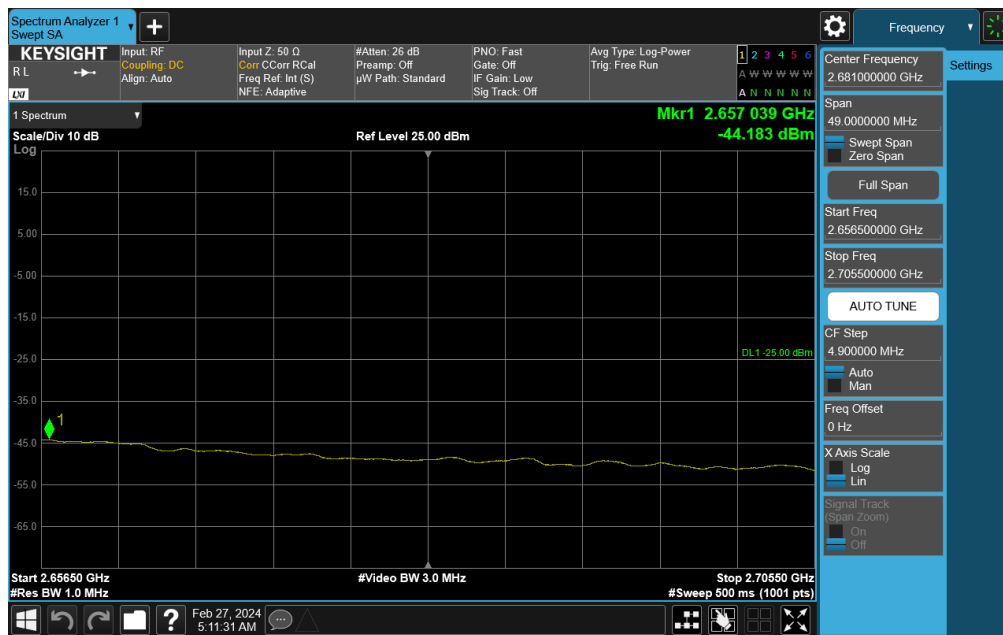


Plot 7-833. Lower Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 442 of 569

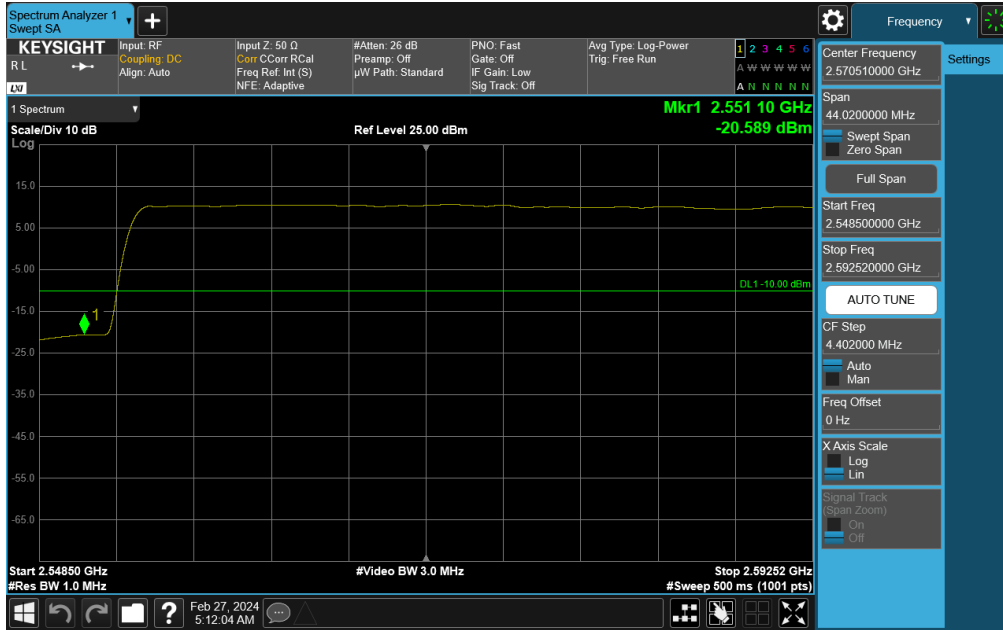


Plot 7-834. Lower Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

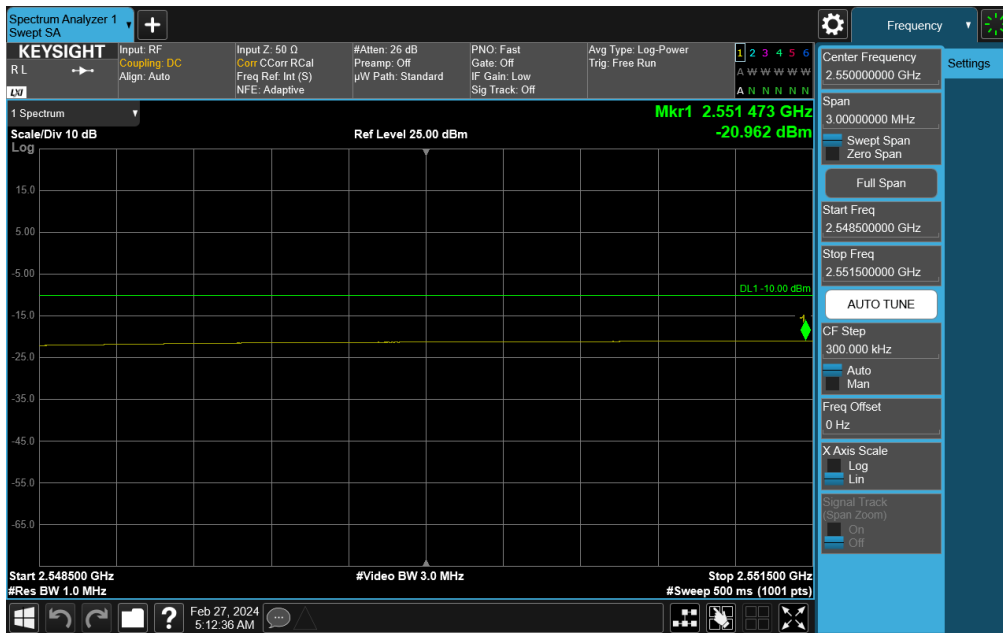


Plot 7-835. Lower Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 443 of 569

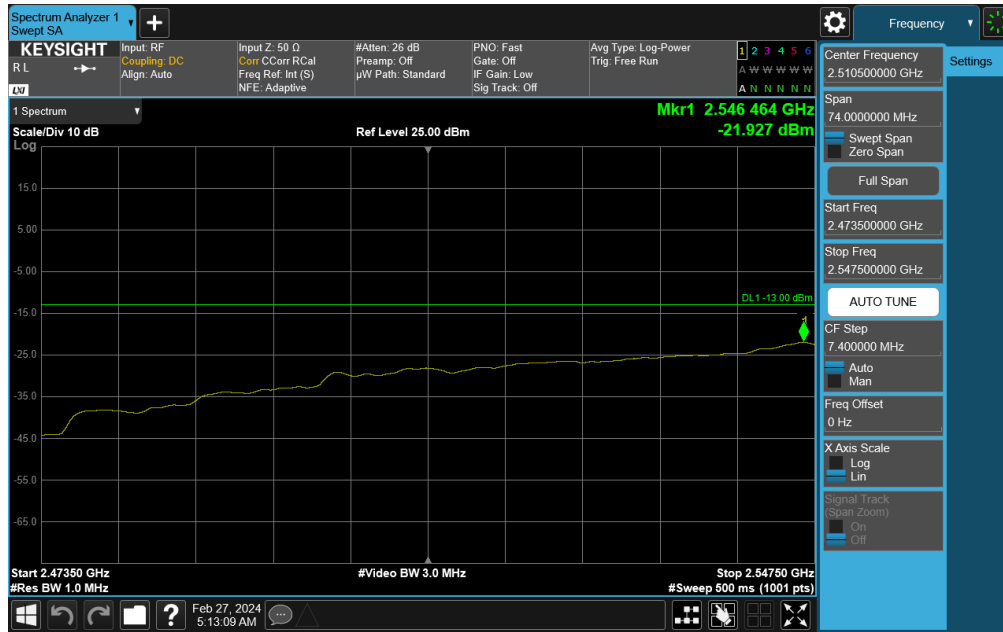


Plot 7-836. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

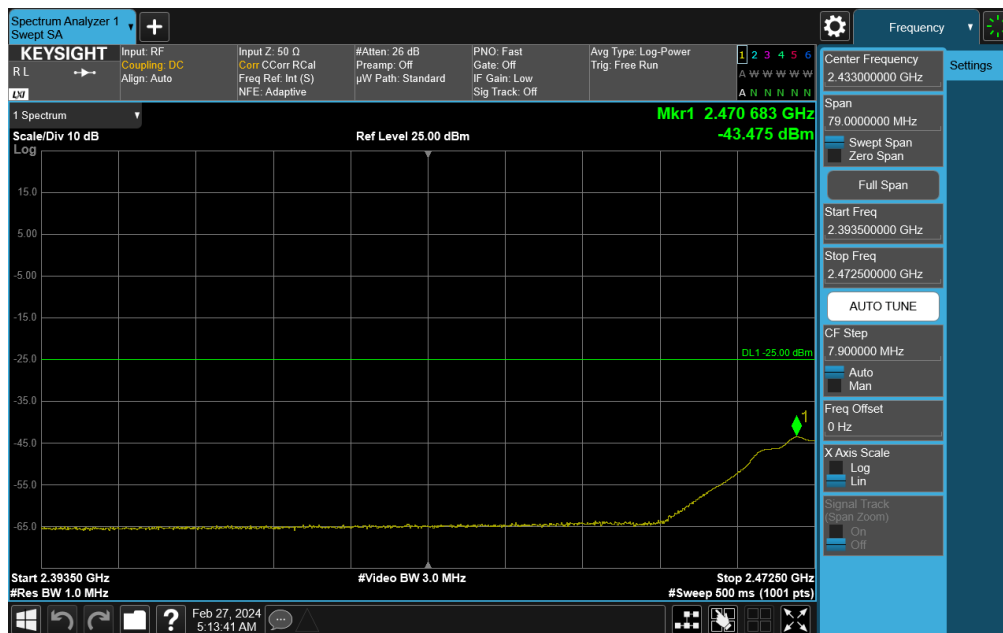


Plot 7-837. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 444 of 569

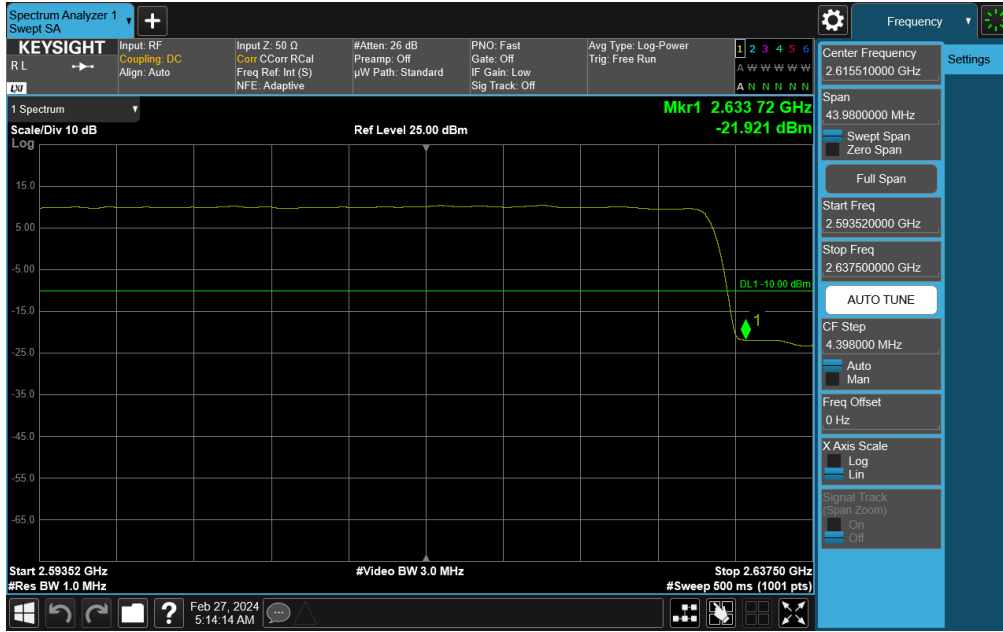


Plot 7-838. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

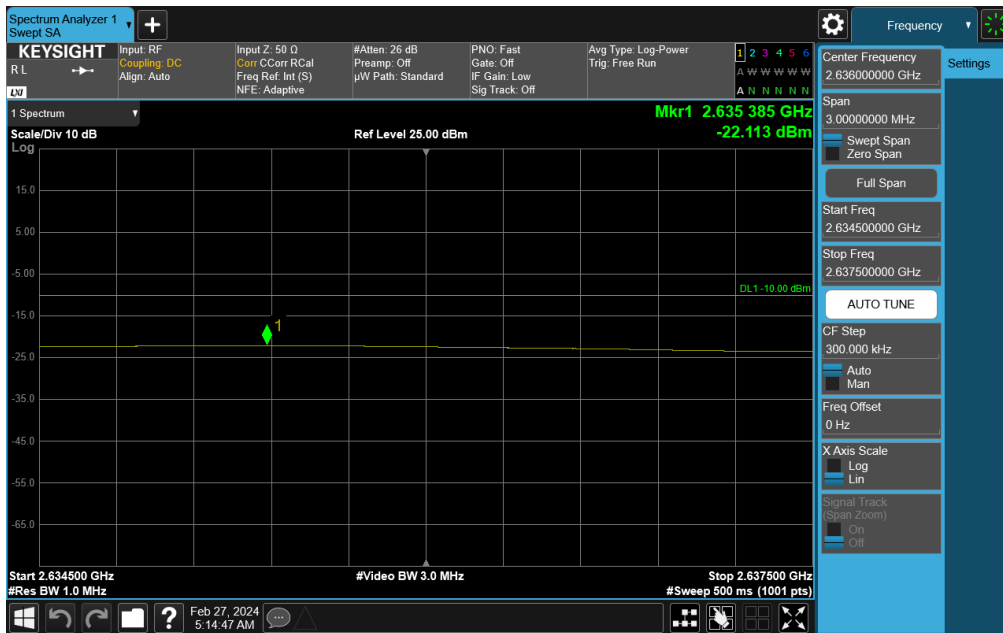


Plot 7-839. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 445 of 569

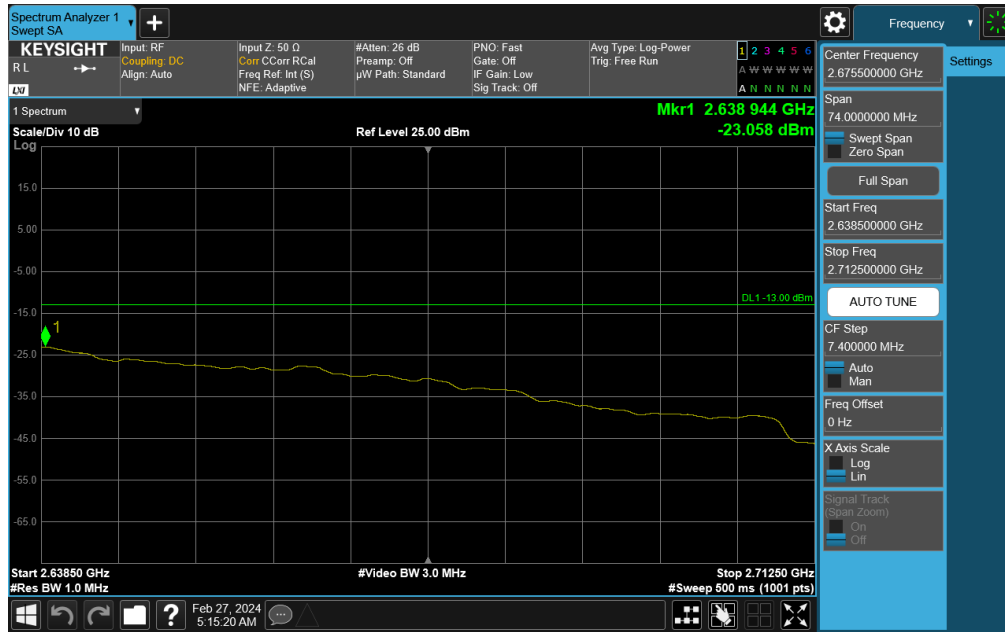


Plot 7-840. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

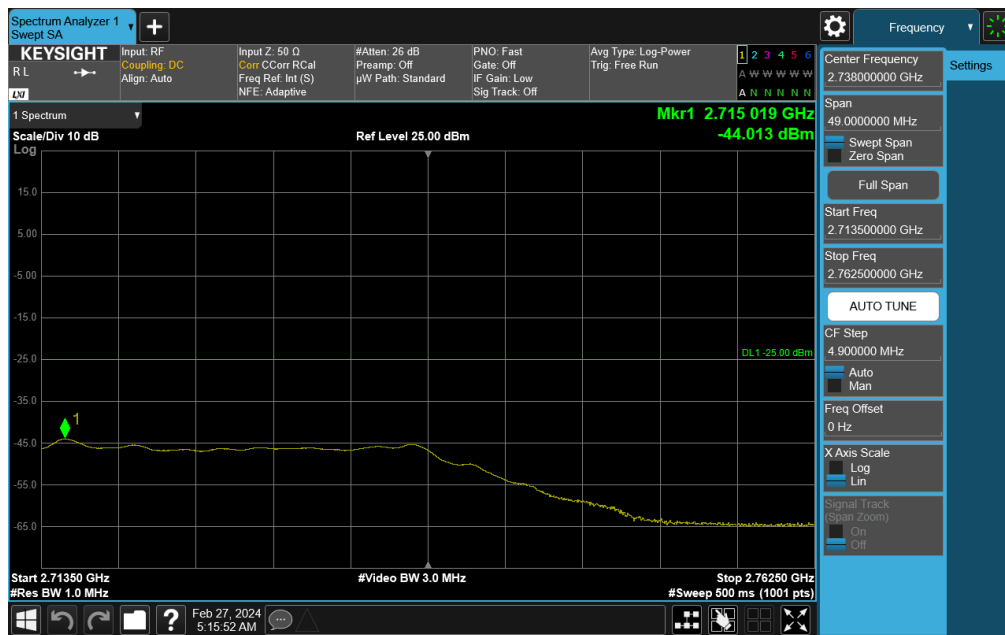


Plot 7-841. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 446 of 569

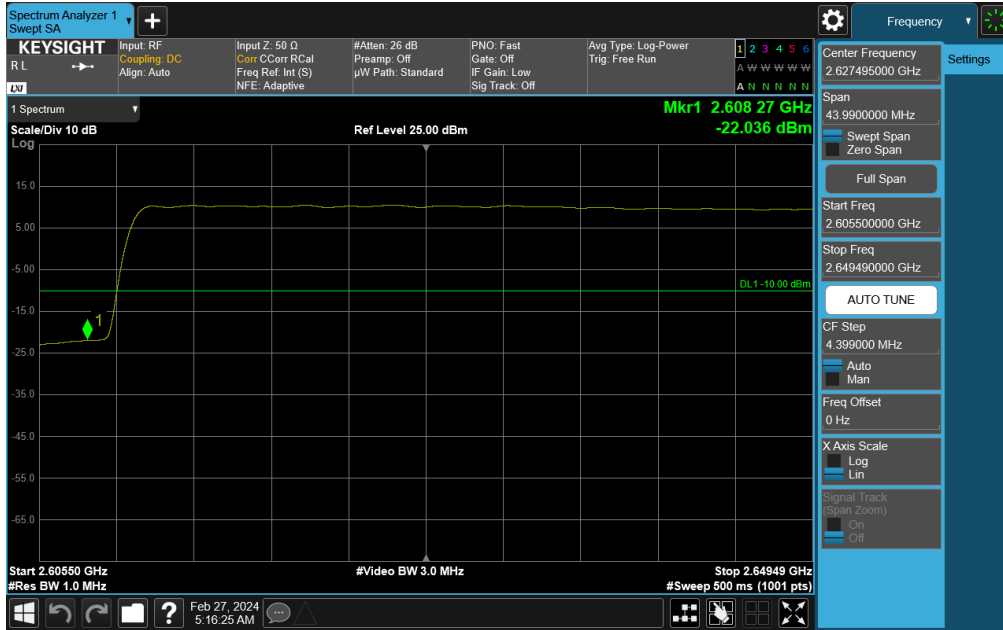


Plot 7-842. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

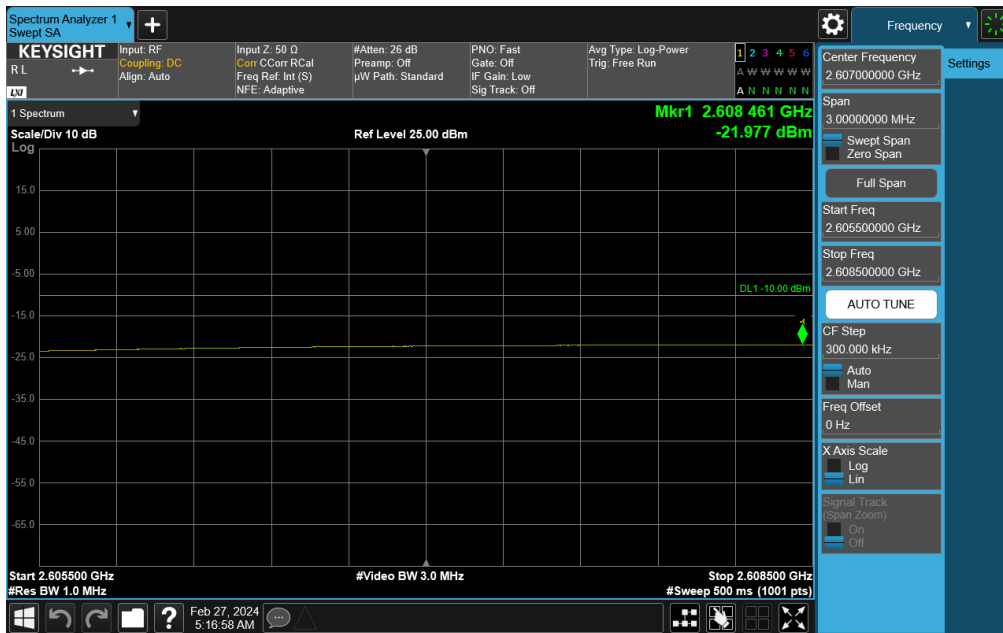


Plot 7-843. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 447 of 569

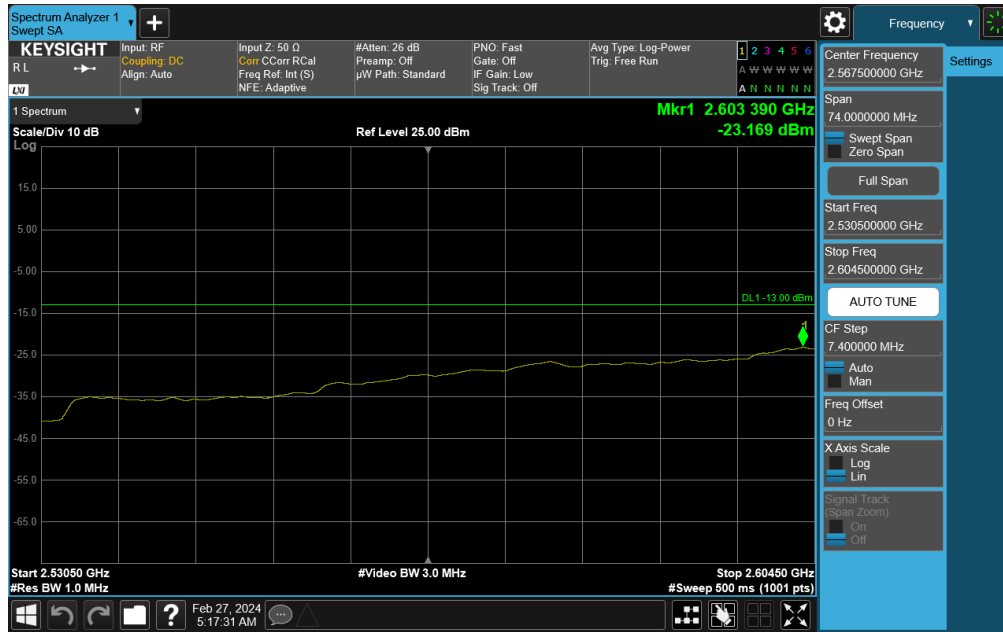


Plot 7-844. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

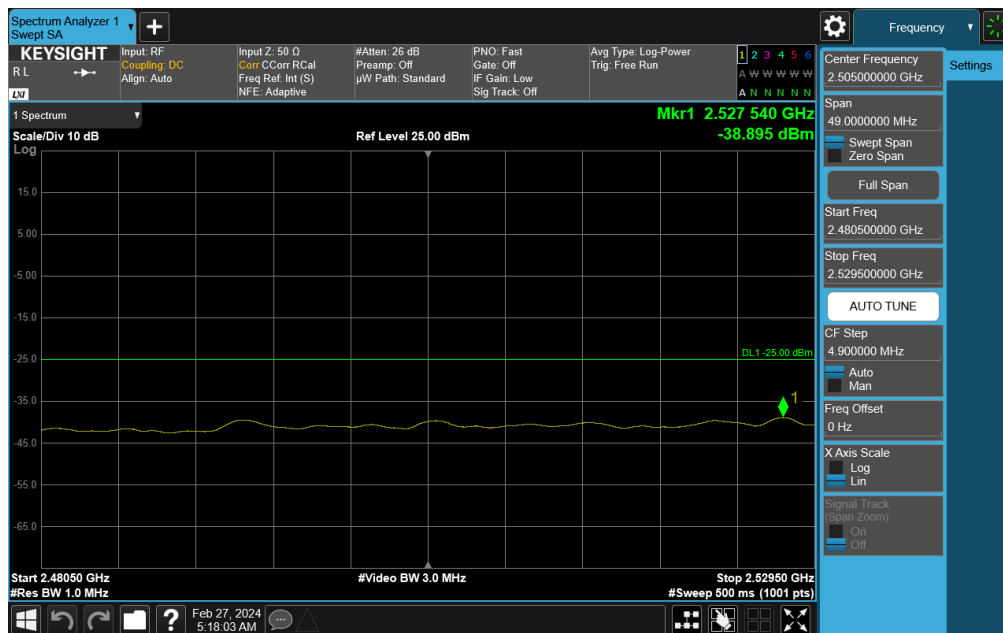


Plot 7-845. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 448 of 569

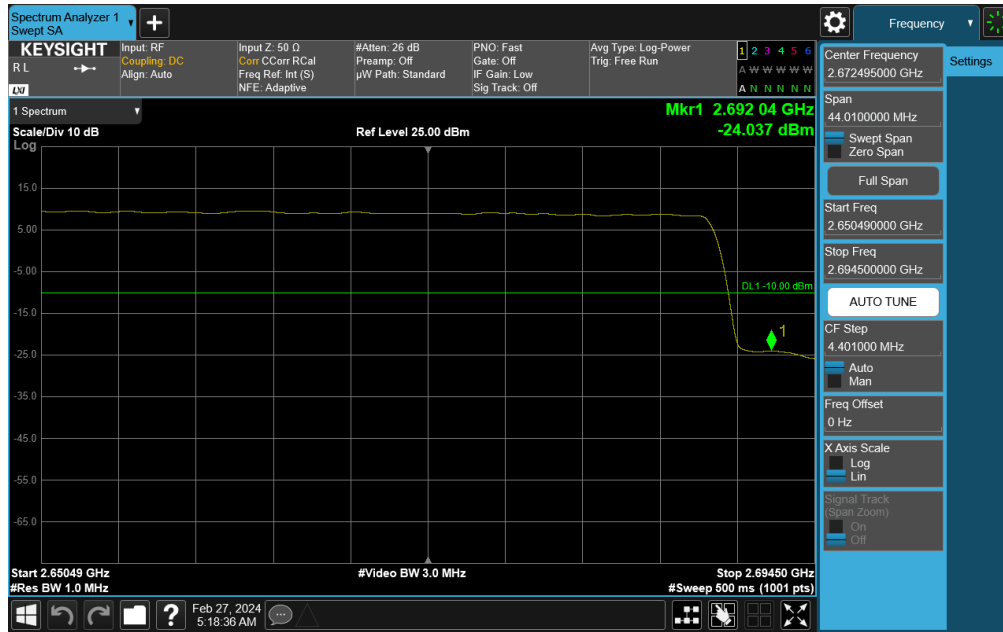


Plot 7-846. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

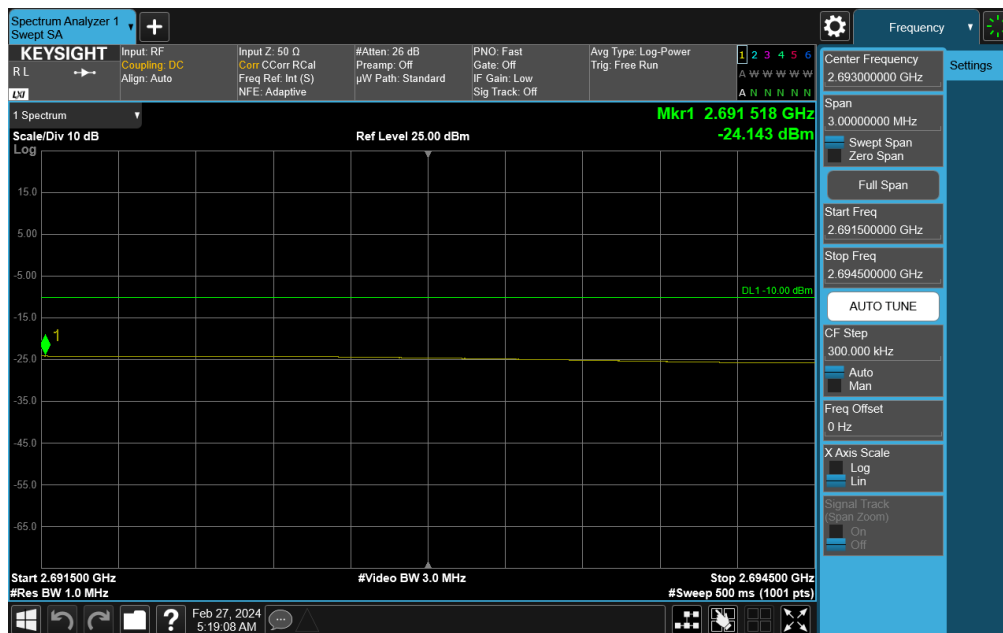


Plot 7-847. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 449 of 569

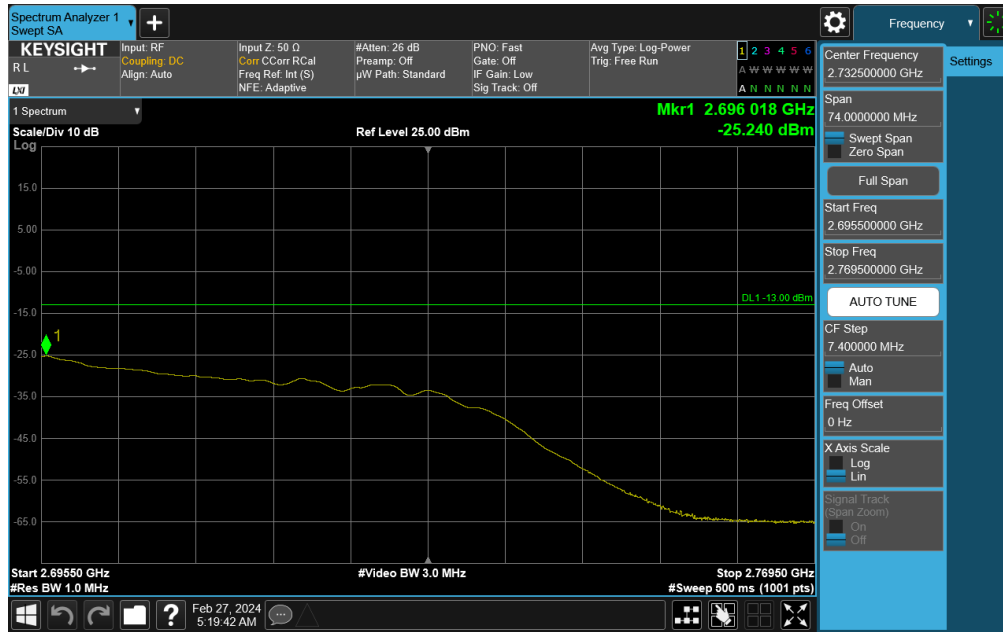


Plot 7-848. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

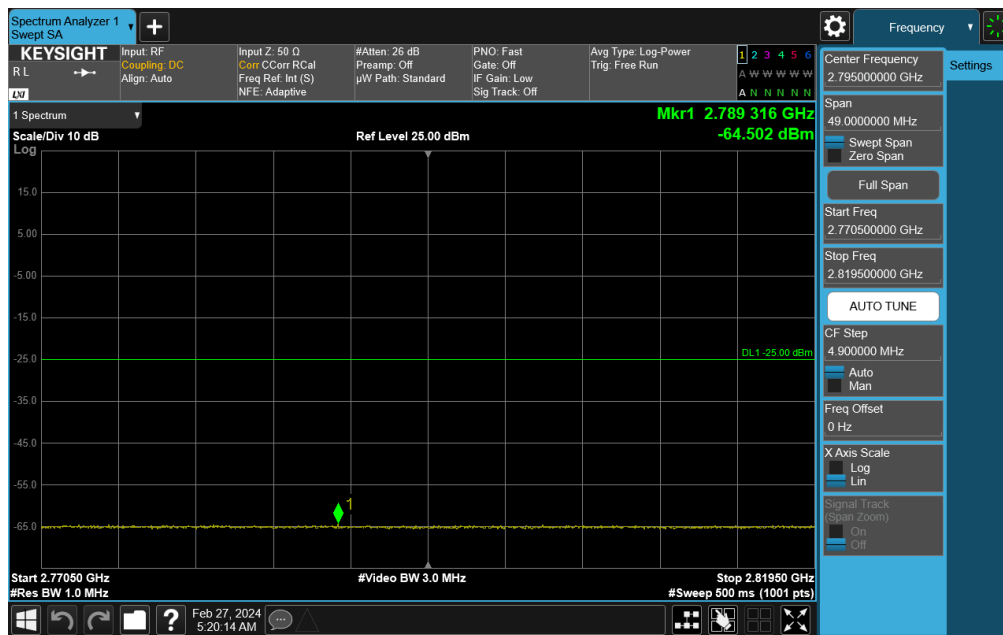


Plot 7-849. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 450 of 569

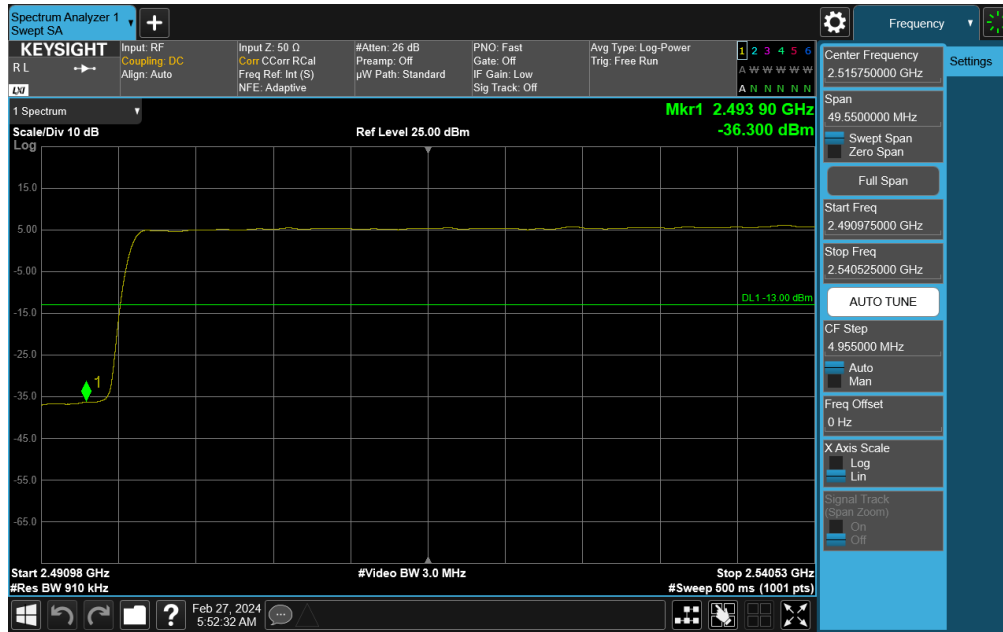


Plot 7-850. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

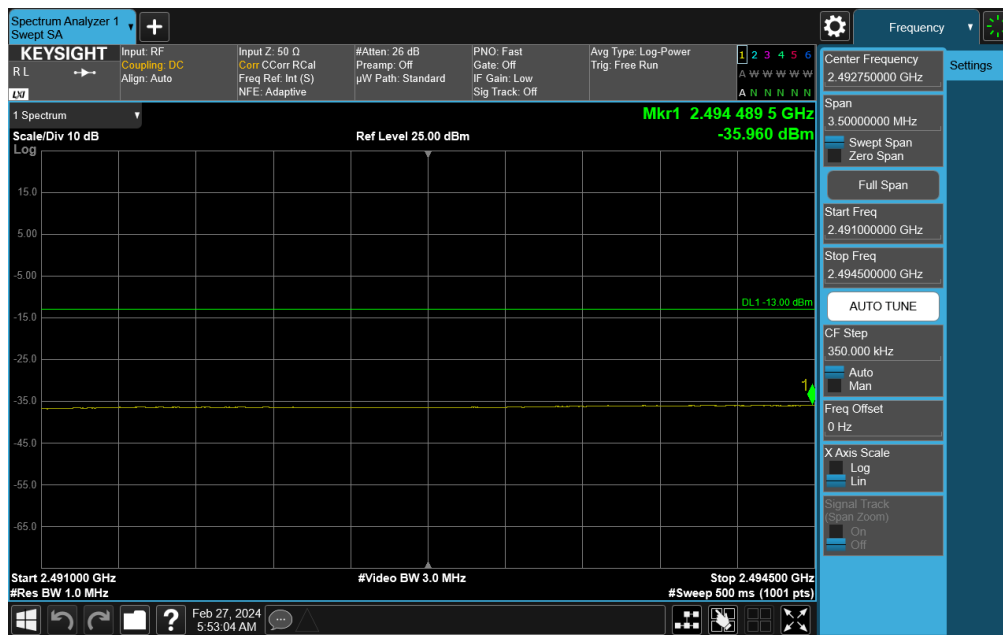


Plot 7-851. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 451 of 569

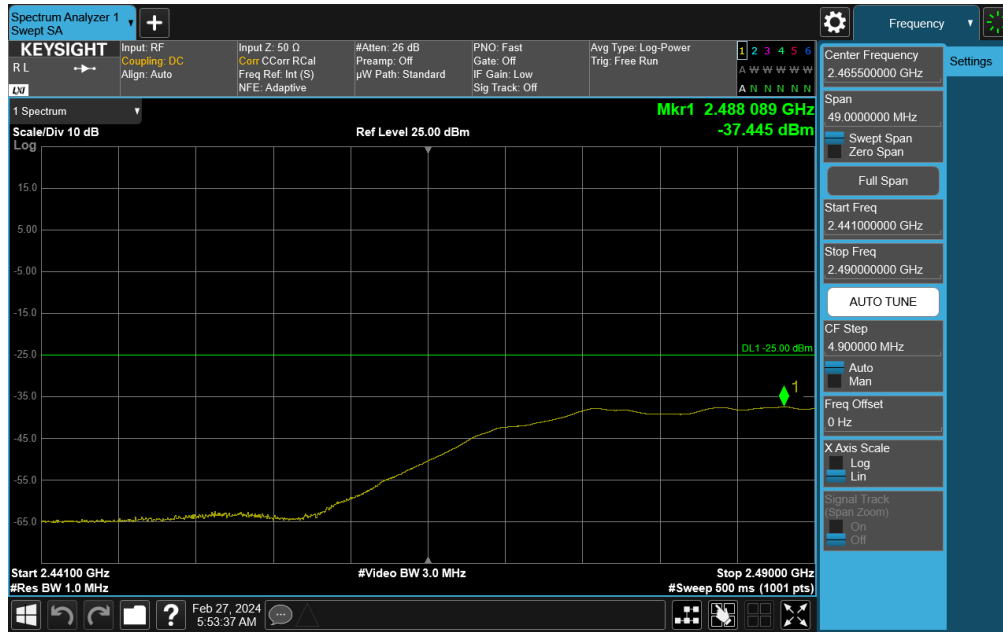


Plot 7-852. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

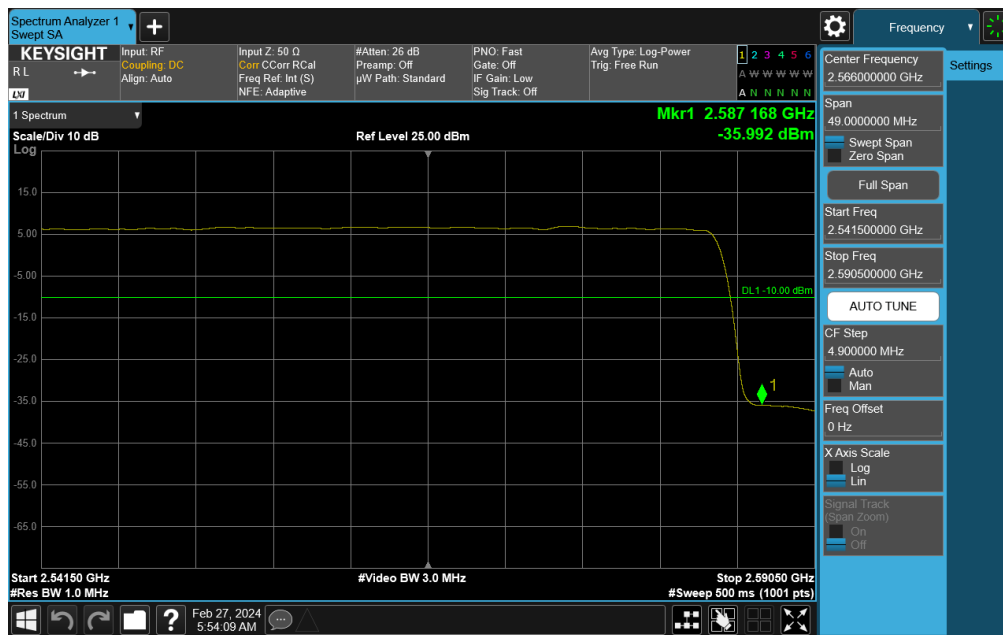


Plot 7-853. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 452 of 569

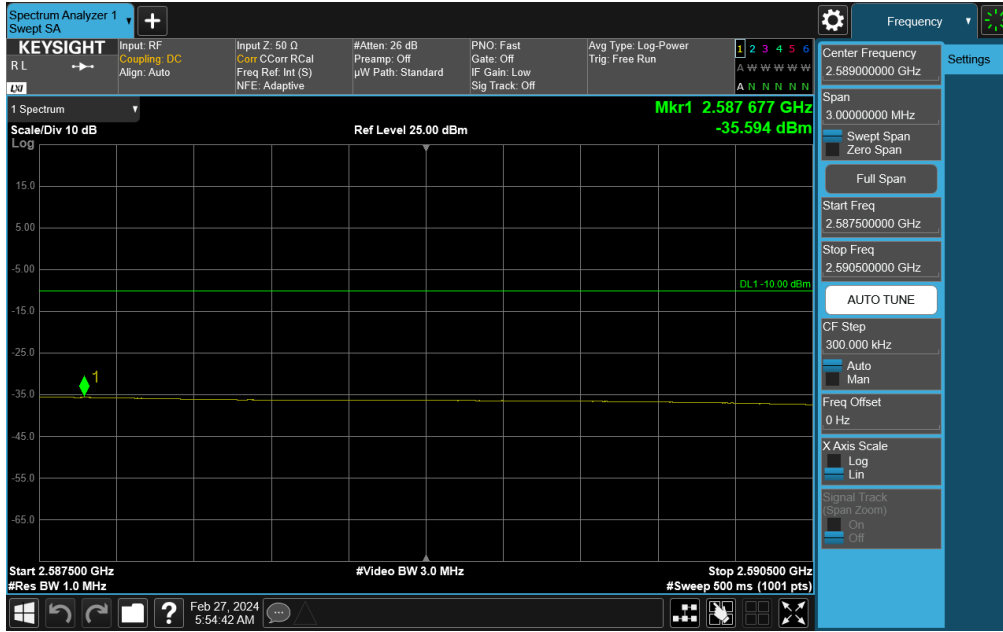


Plot 7-854. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

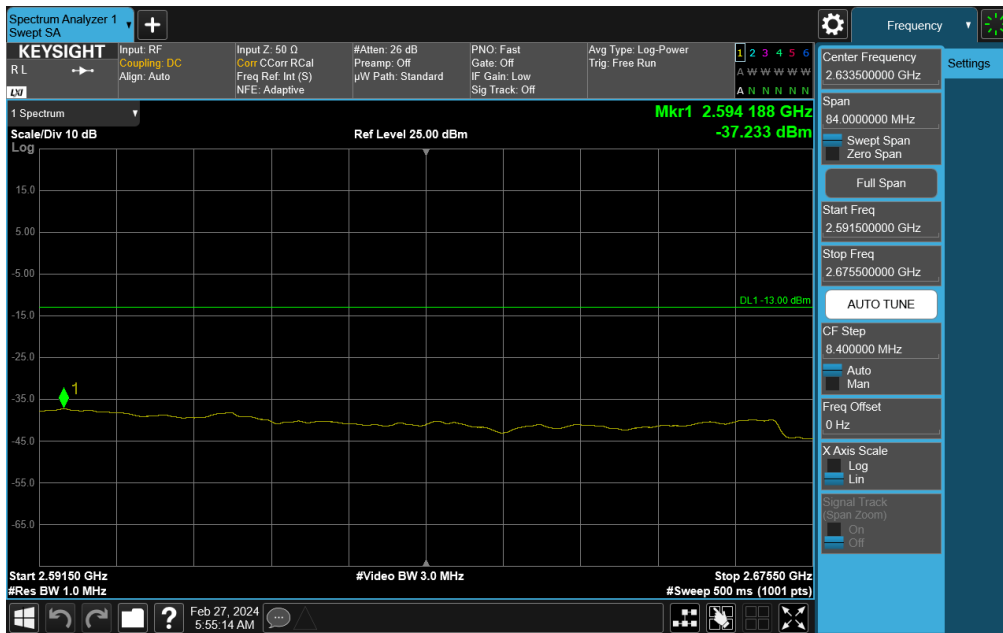


Plot 7-855. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 453 of 569

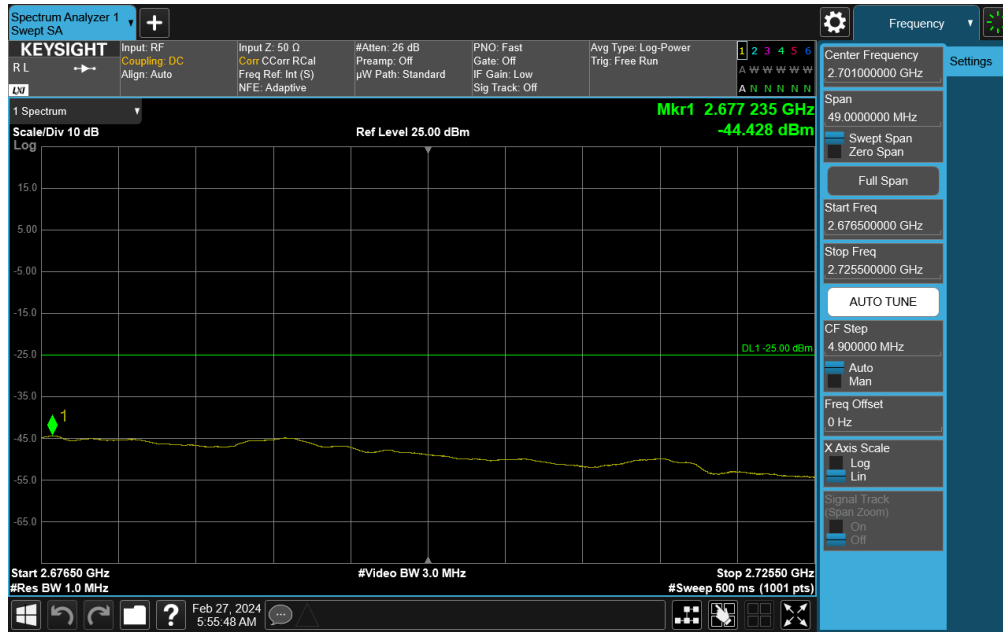


Plot 7-856. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

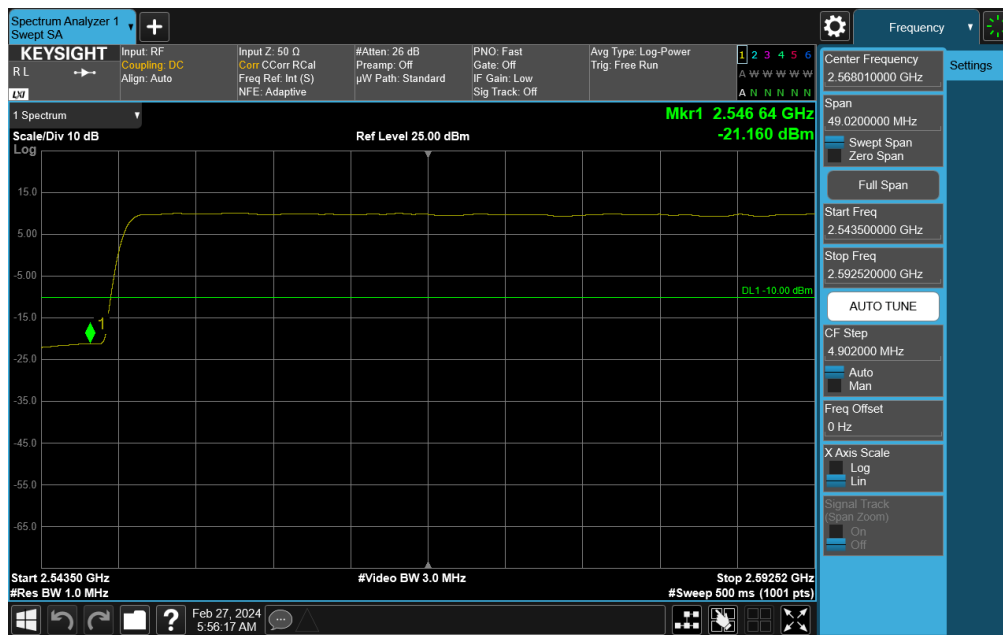


Plot 7-857. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 454 of 569

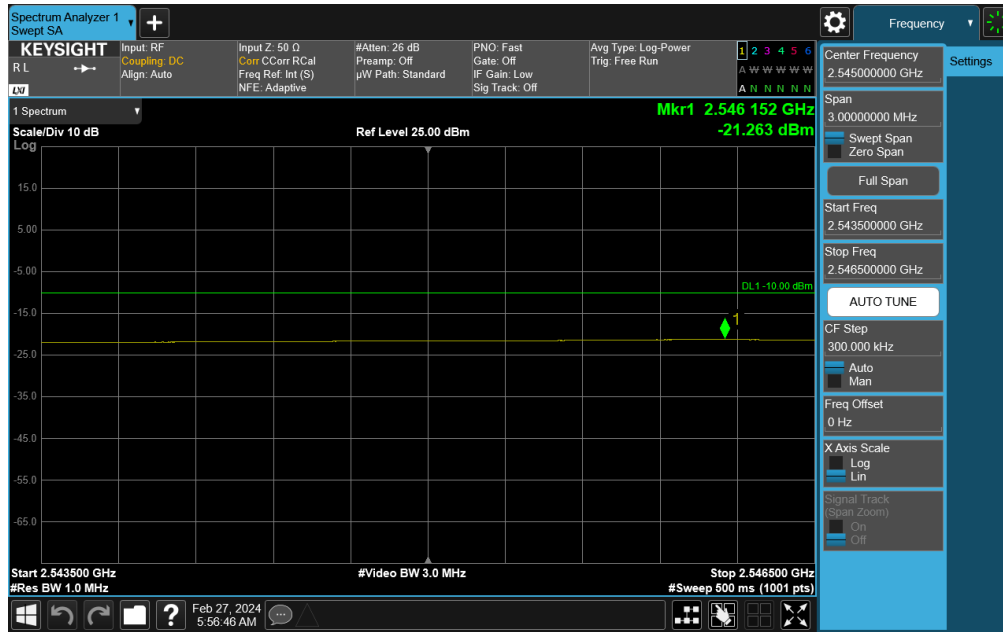


Plot 7-858. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

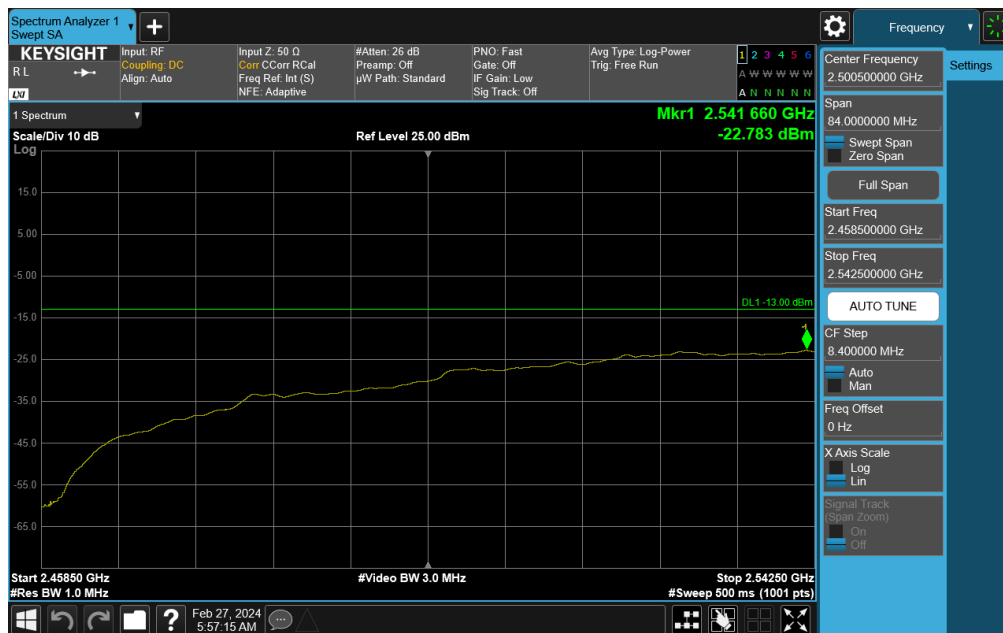


Plot 7-859. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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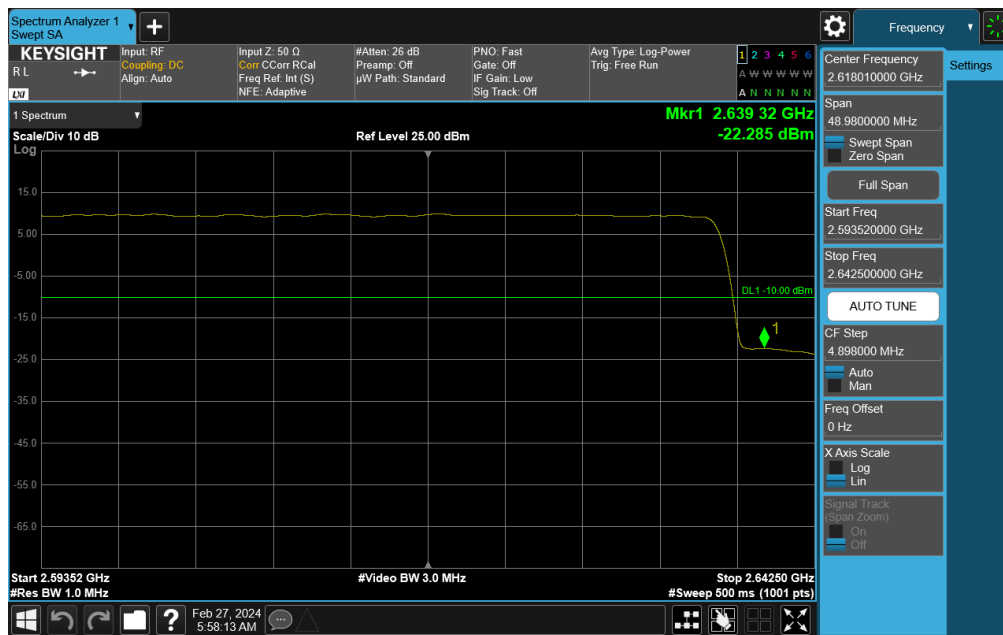
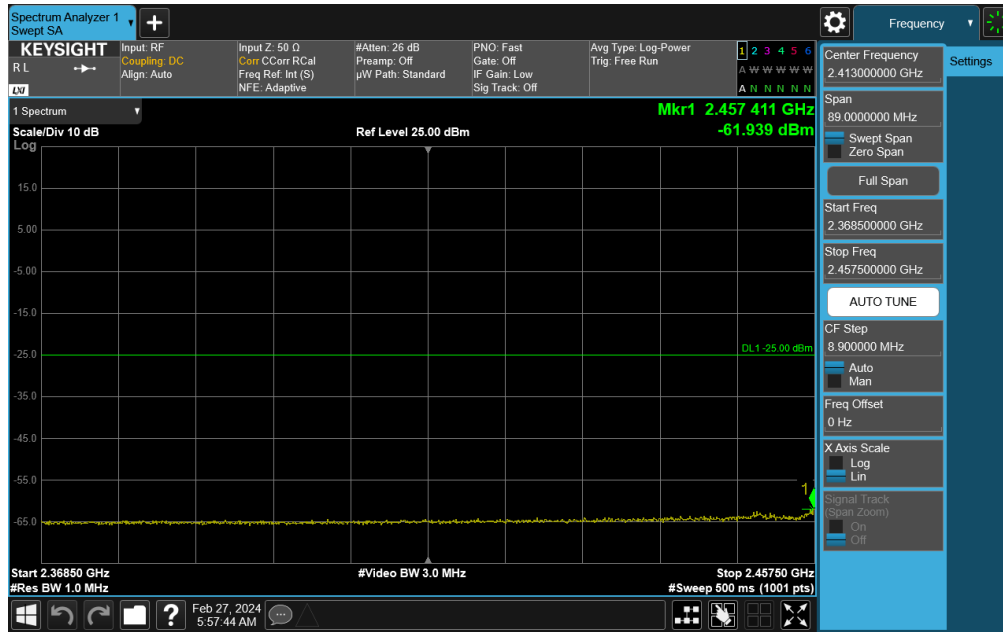


Plot 7-860. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

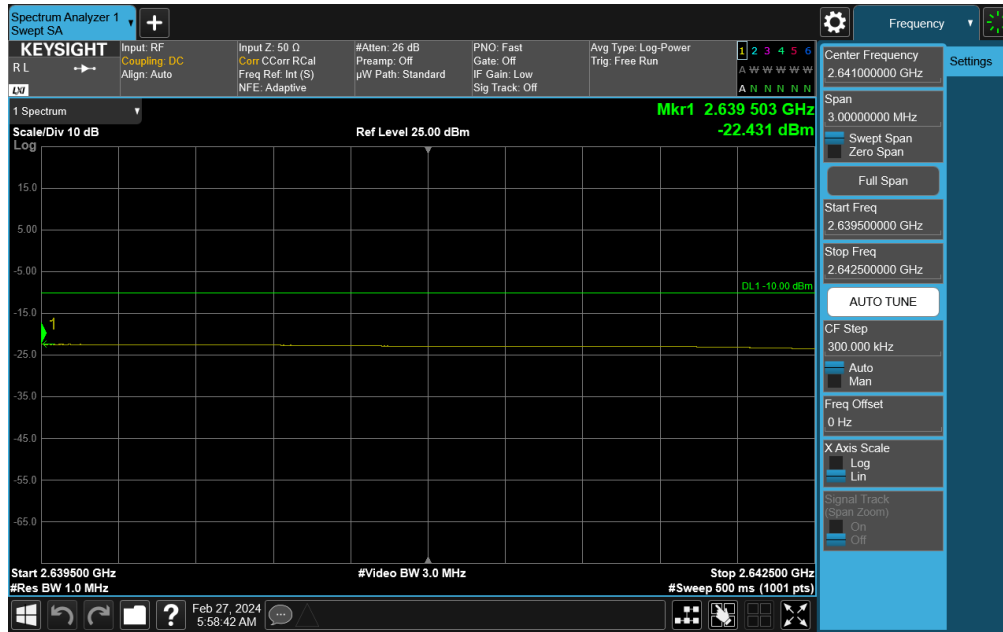


Plot 7-861. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

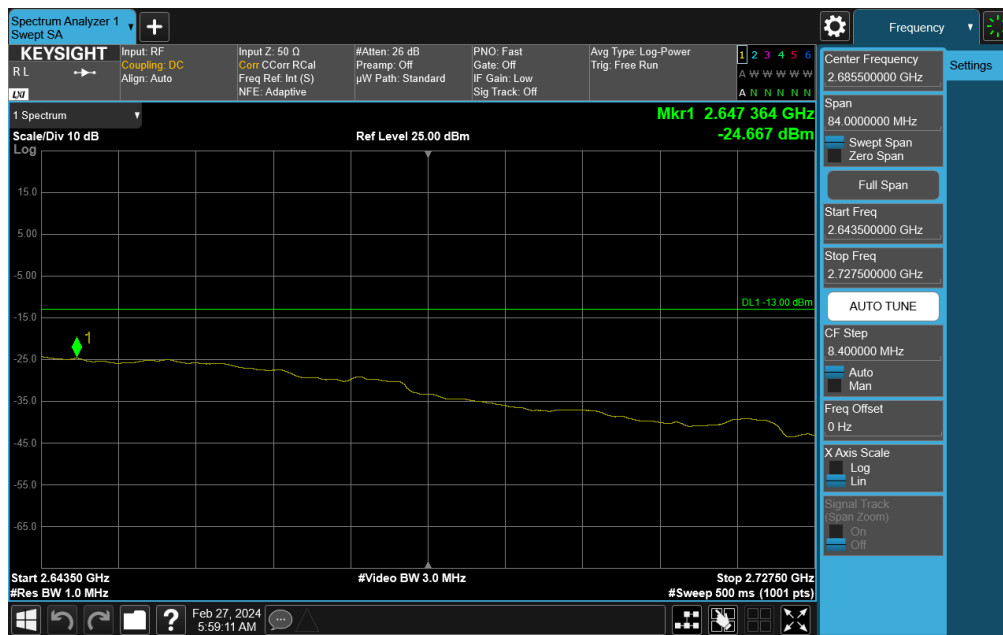
FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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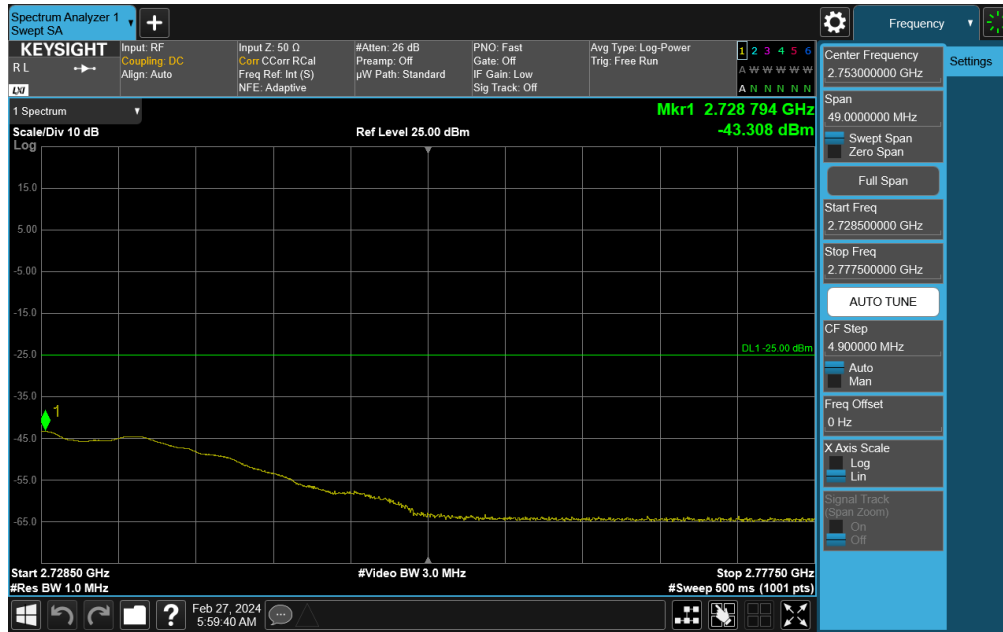


Plot 7-864. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

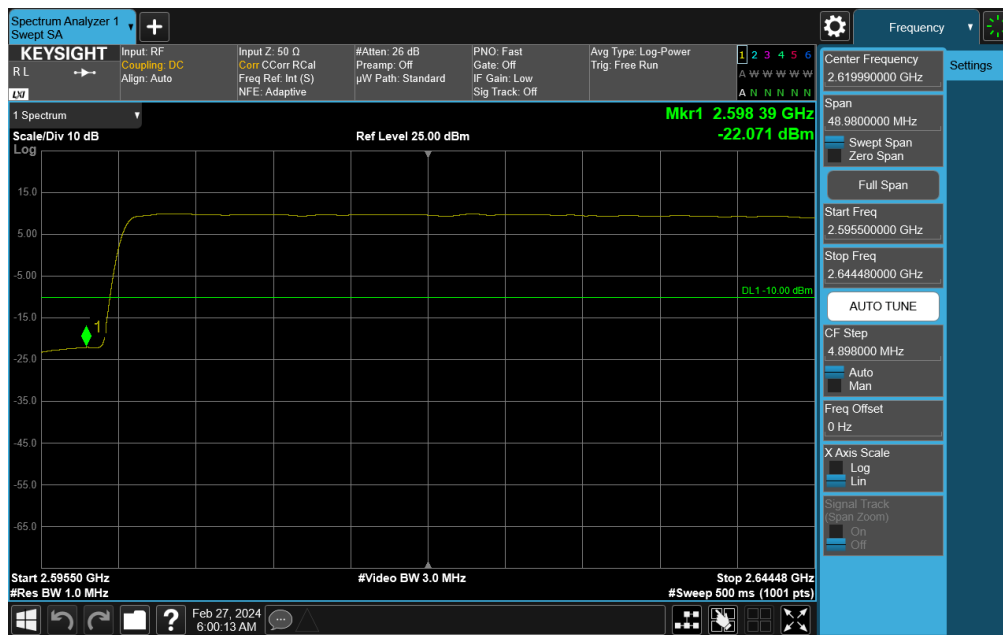


Plot 7-865. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device
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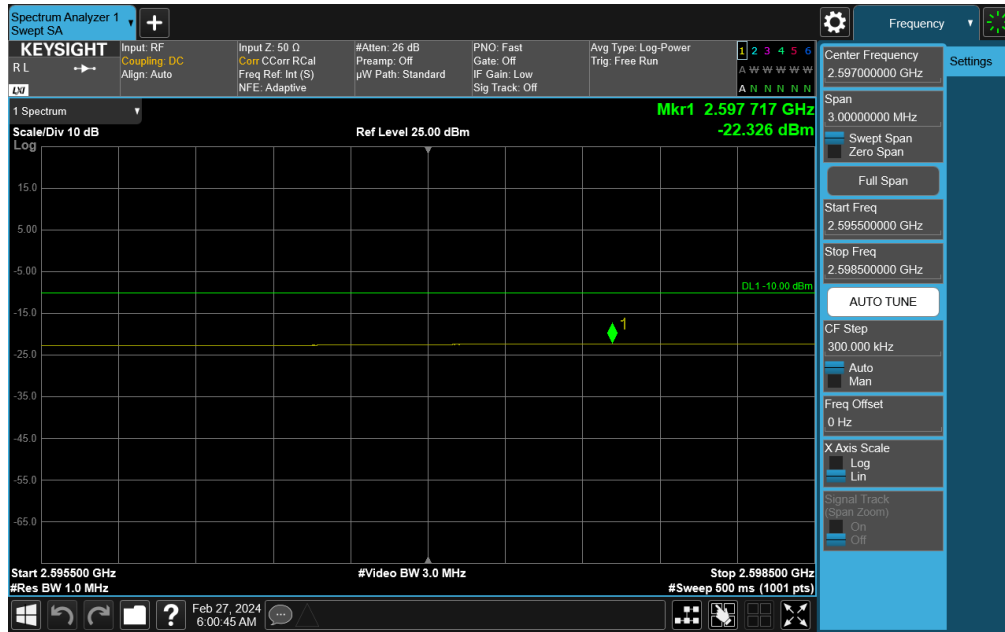


Plot 7-866. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

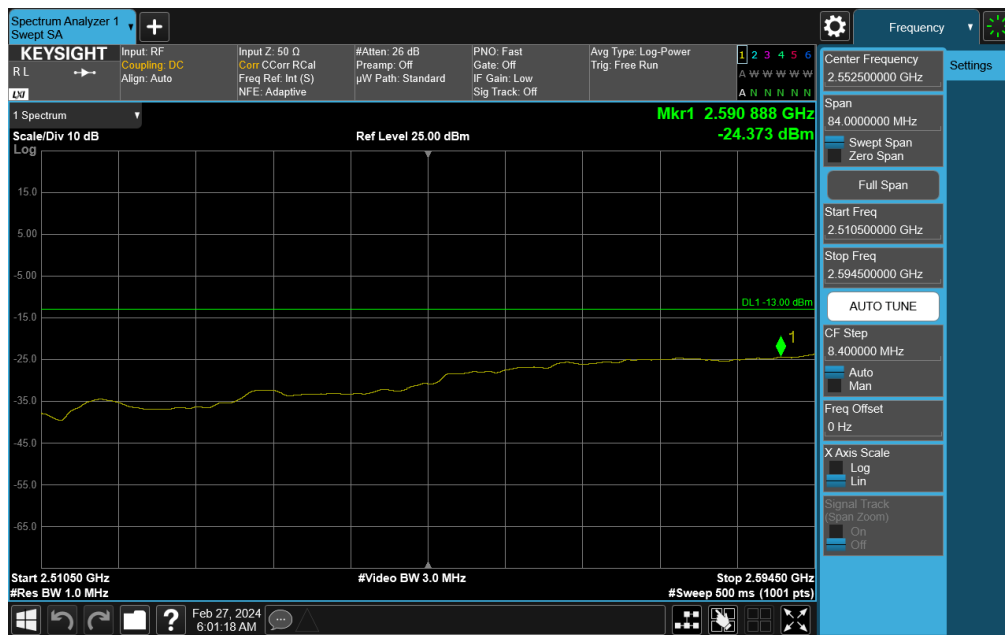


Plot 7-867. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 459 of 569

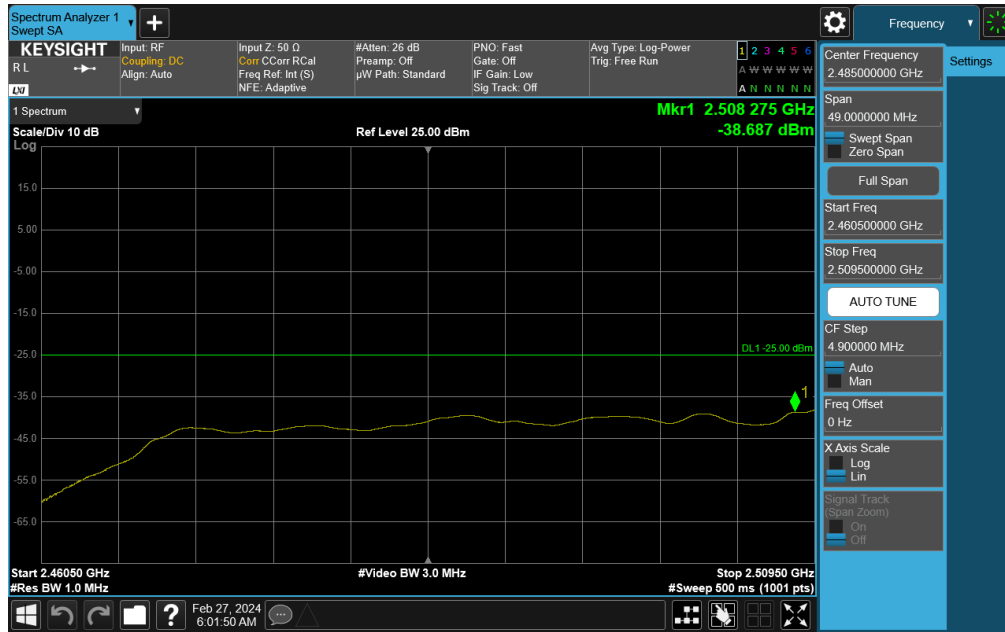


Plot 7-868. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

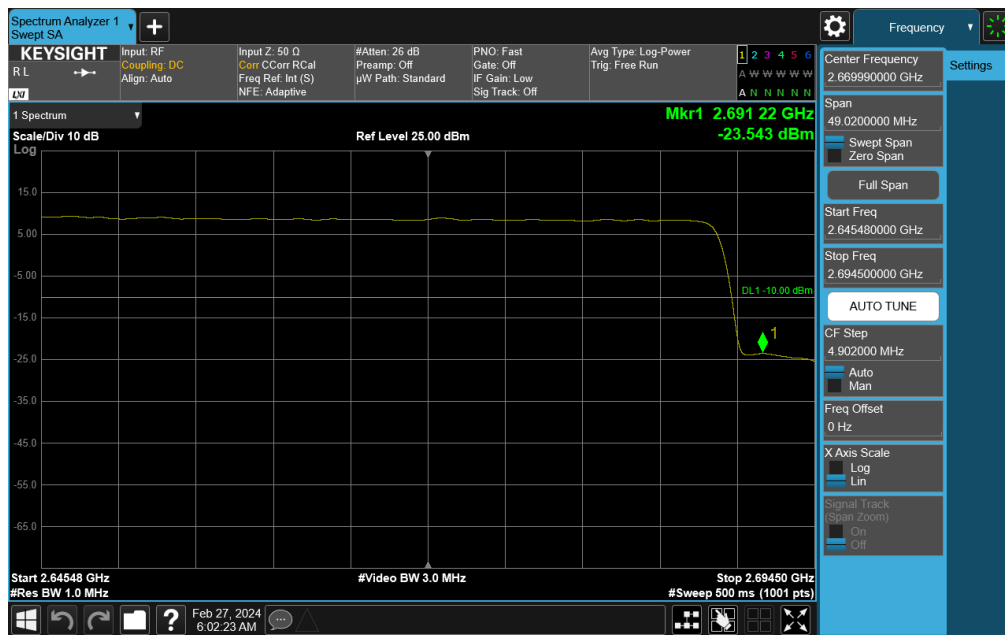


Plot 7-869. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 460 of 569

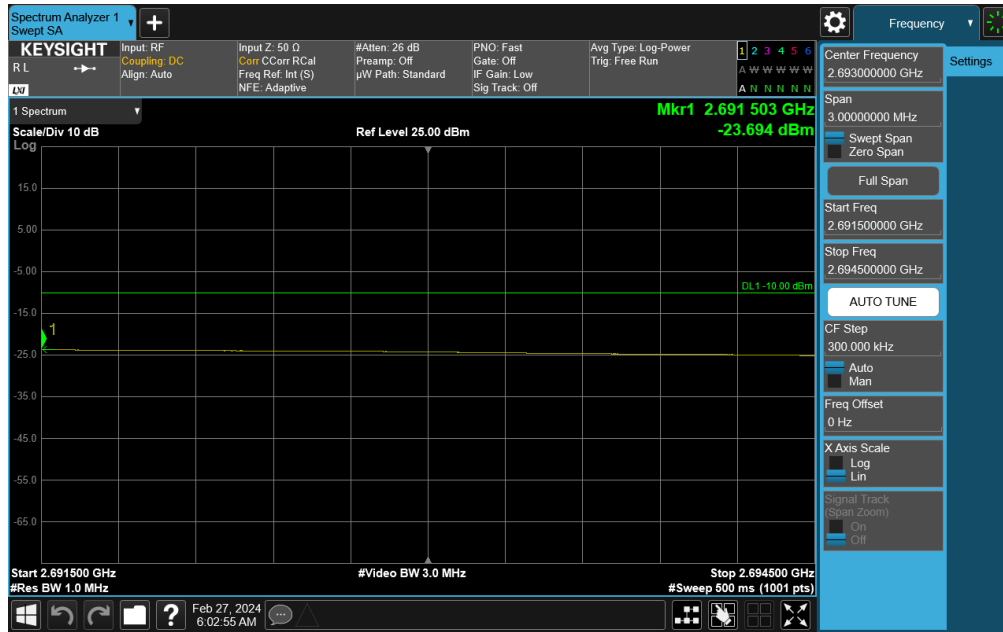


Plot 7-870. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

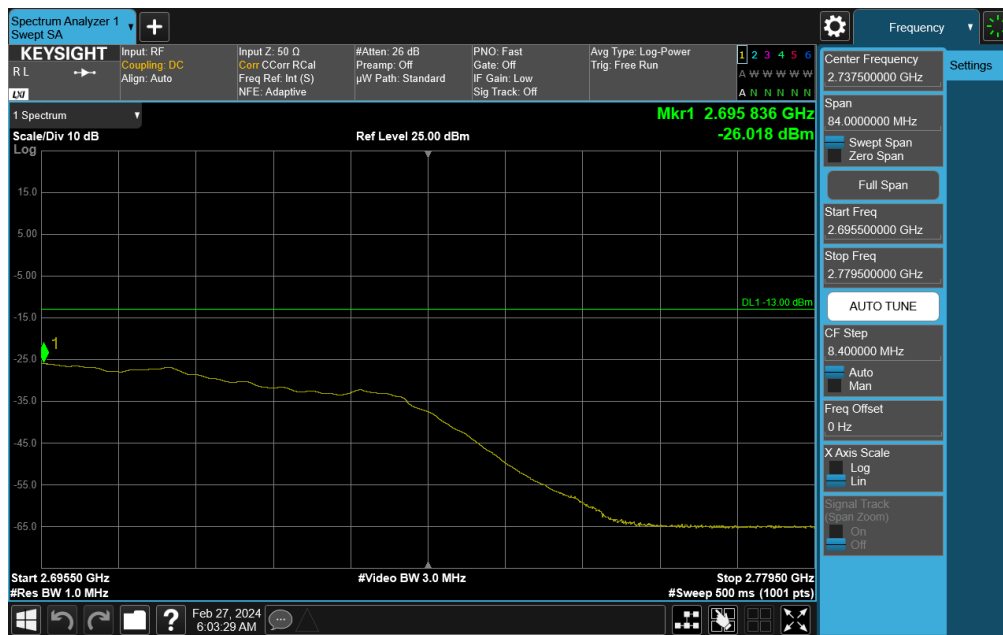


Plot 7-871. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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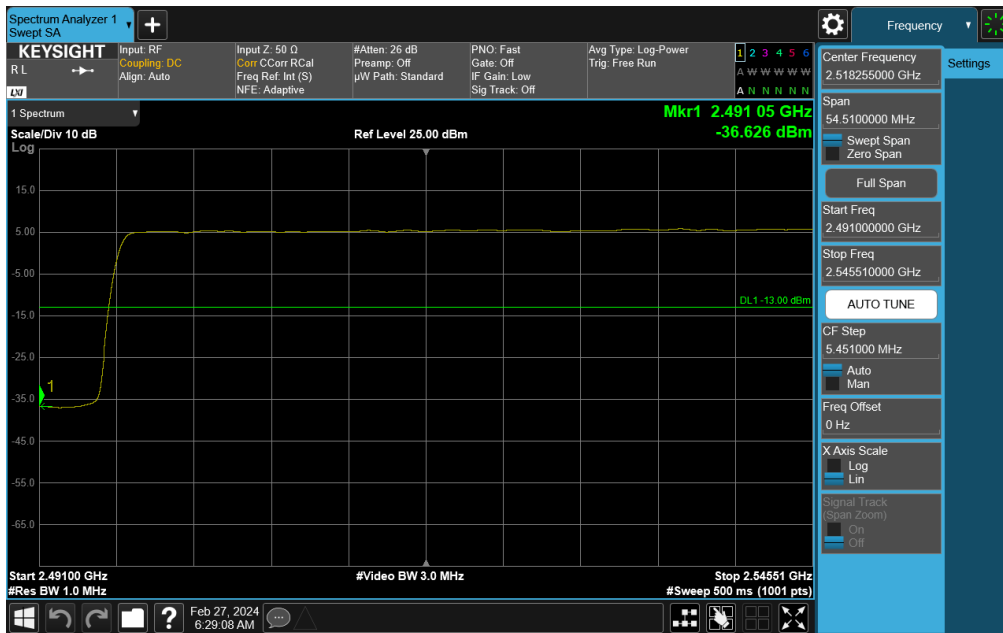
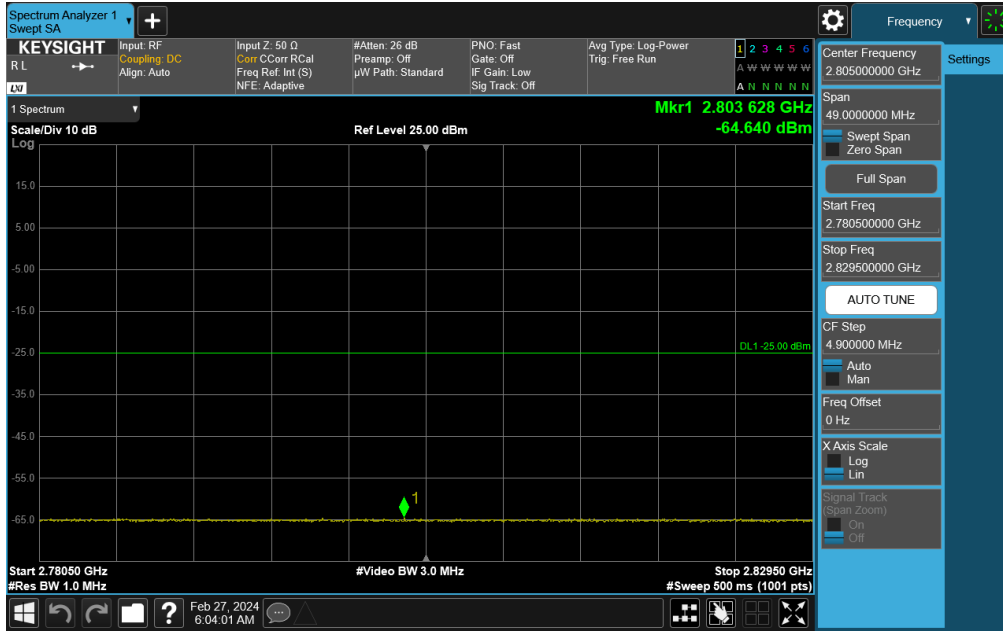


Plot 7-872. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

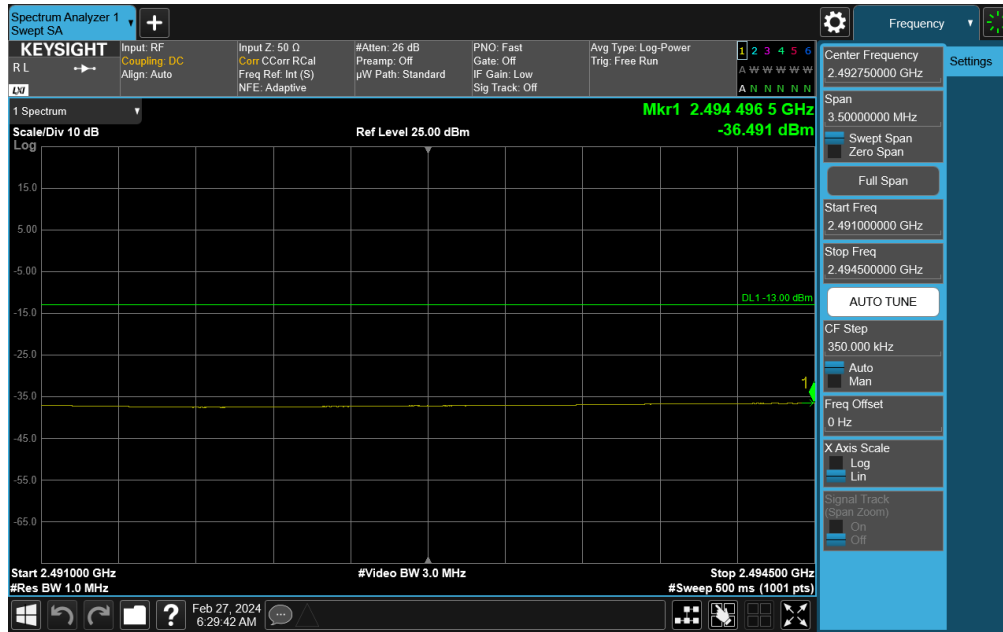


Plot 7-873. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)

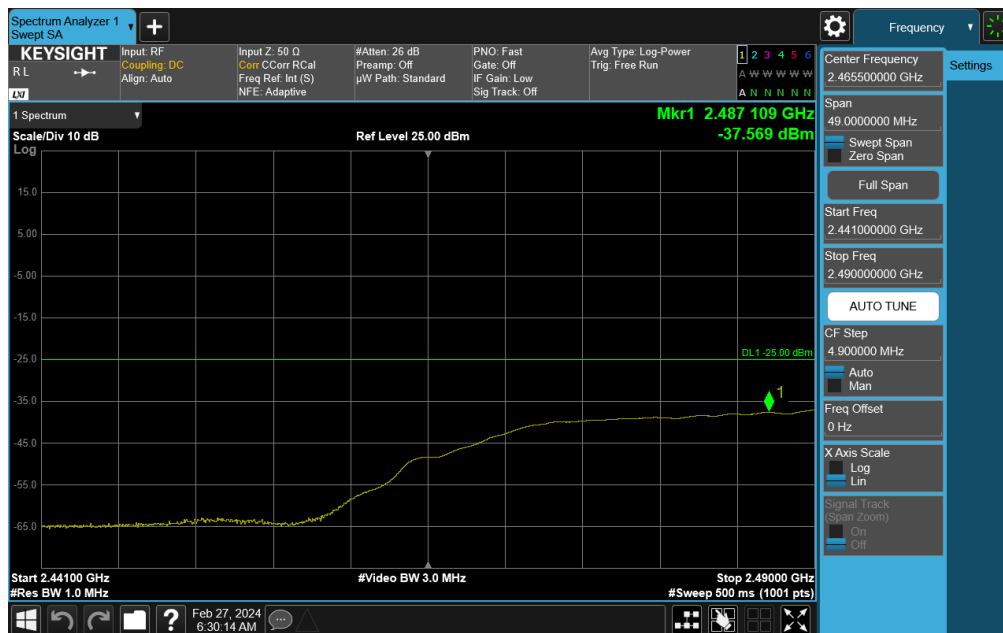
FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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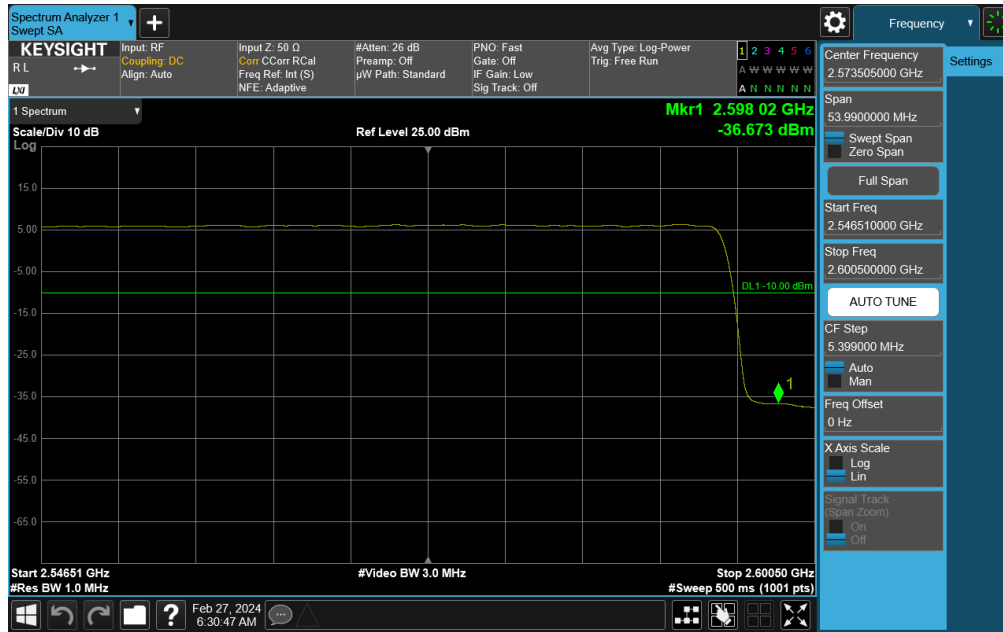


Plot 7-876. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

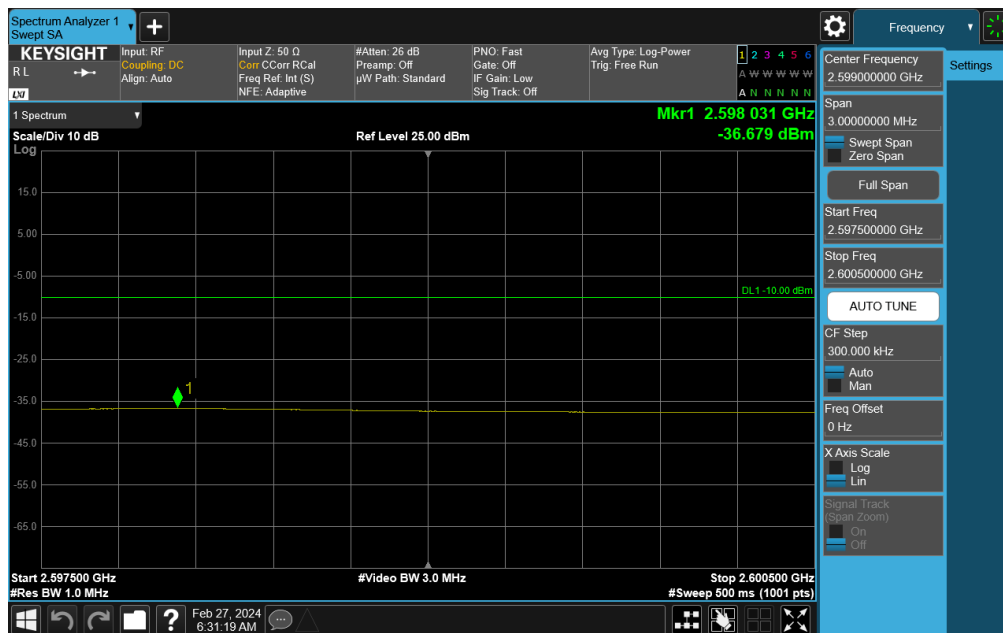


Plot 7-877. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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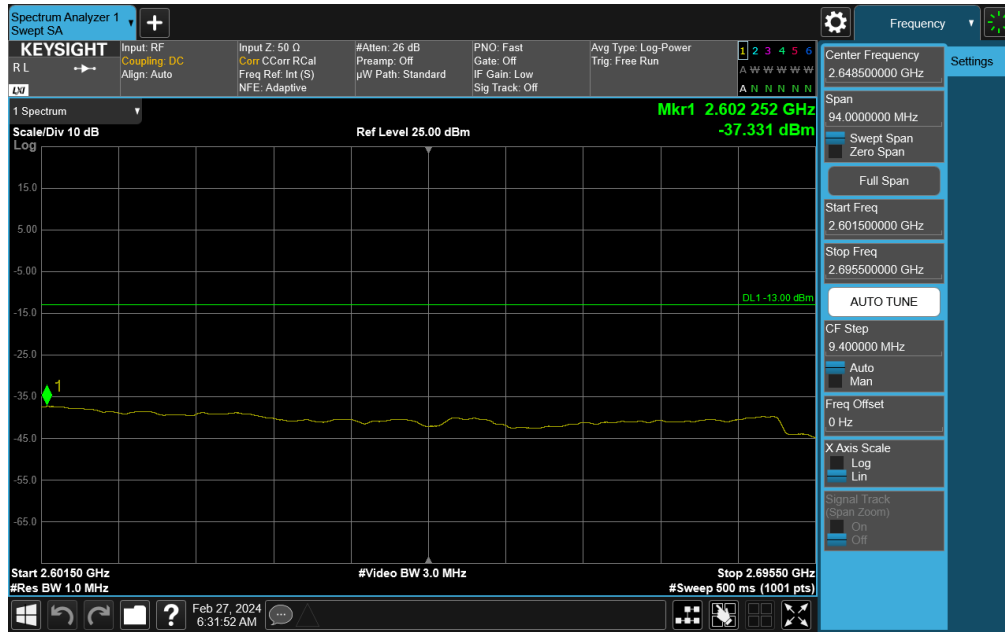


Plot 7-878. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

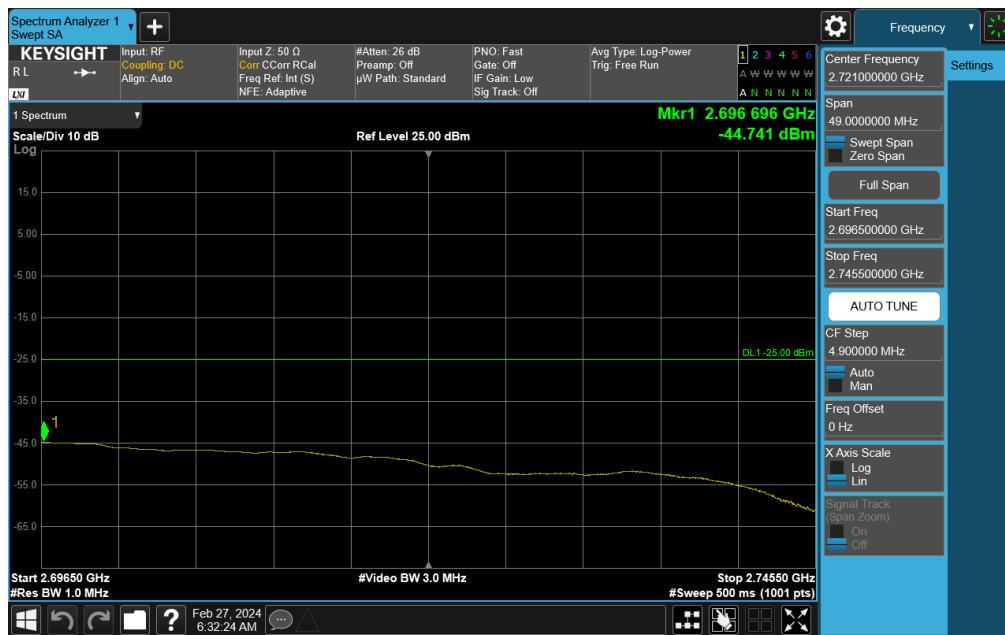


Plot 7-879. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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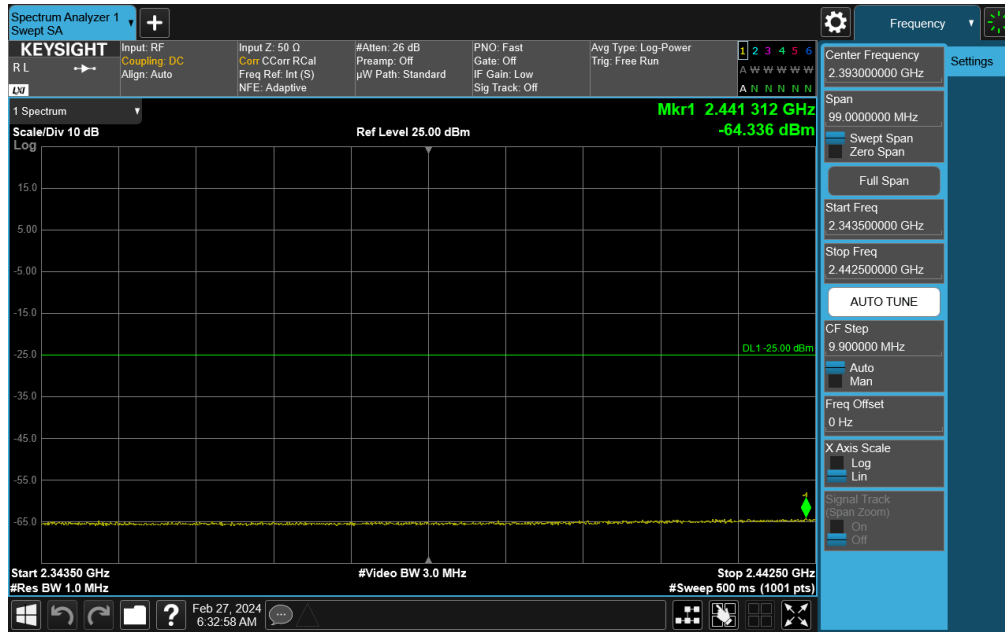


Plot 7-880. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

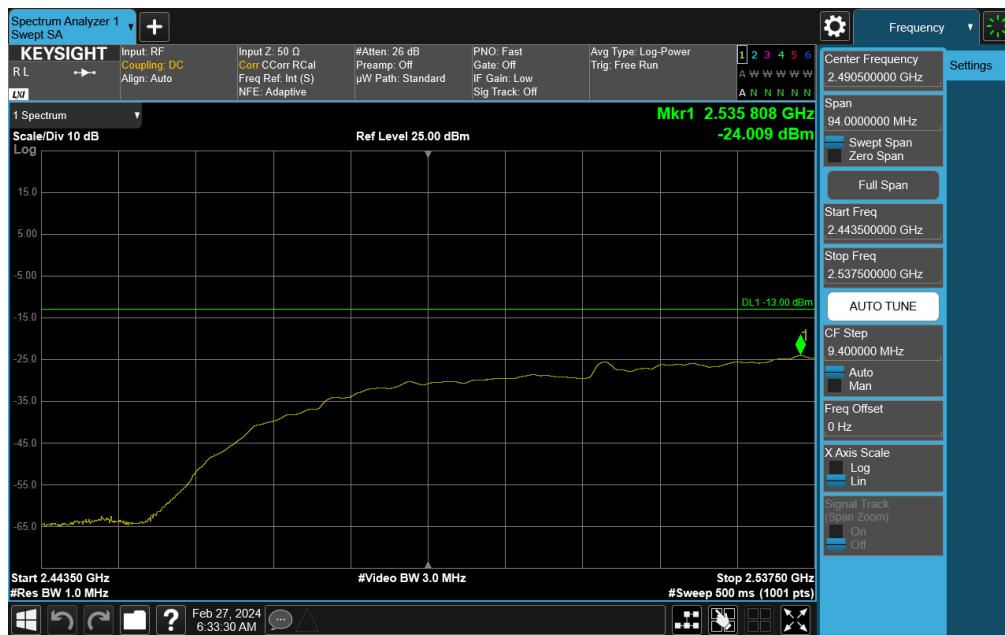


Plot 7-881. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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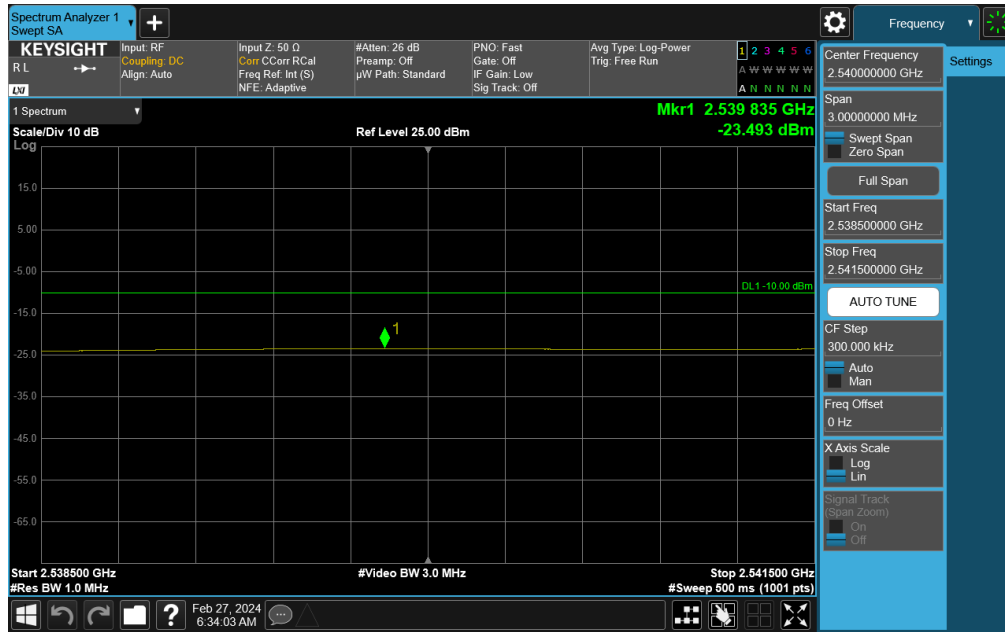


Plot 7-882. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

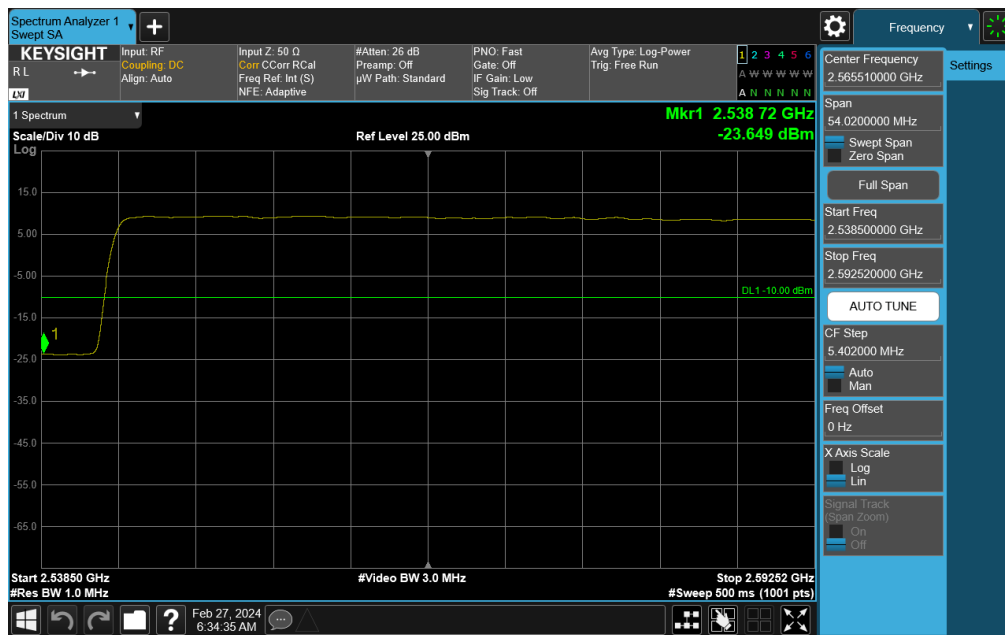


Plot 7-883. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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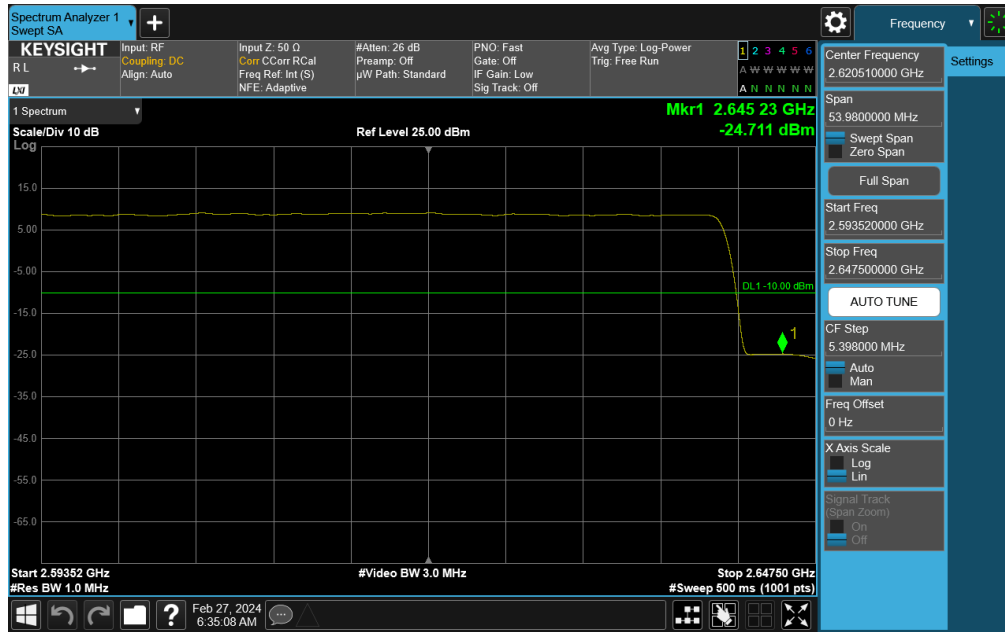


Plot 7-884. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

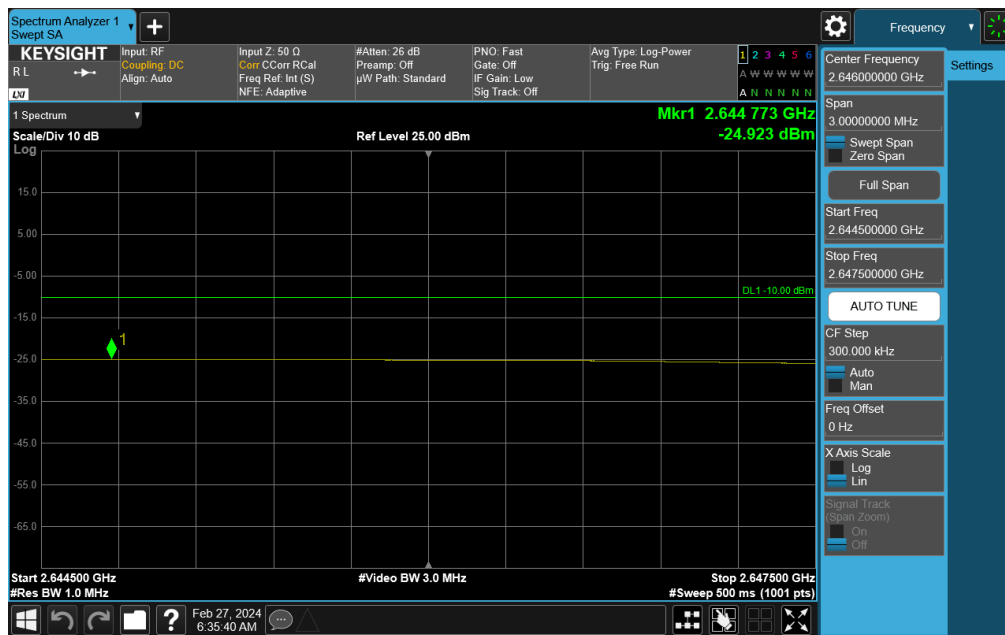


Plot 7-885. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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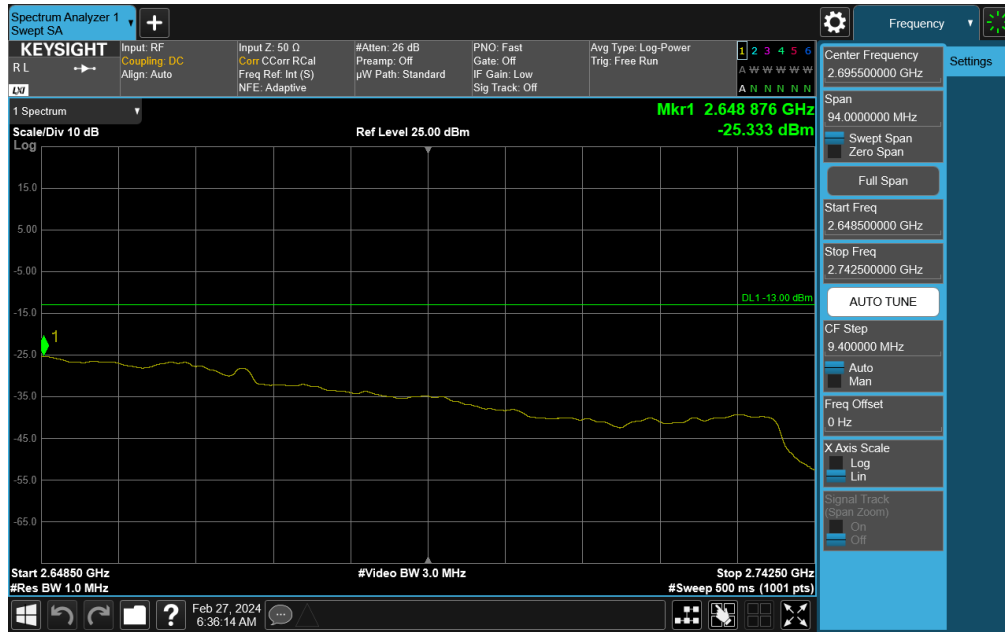


Plot 7-886. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

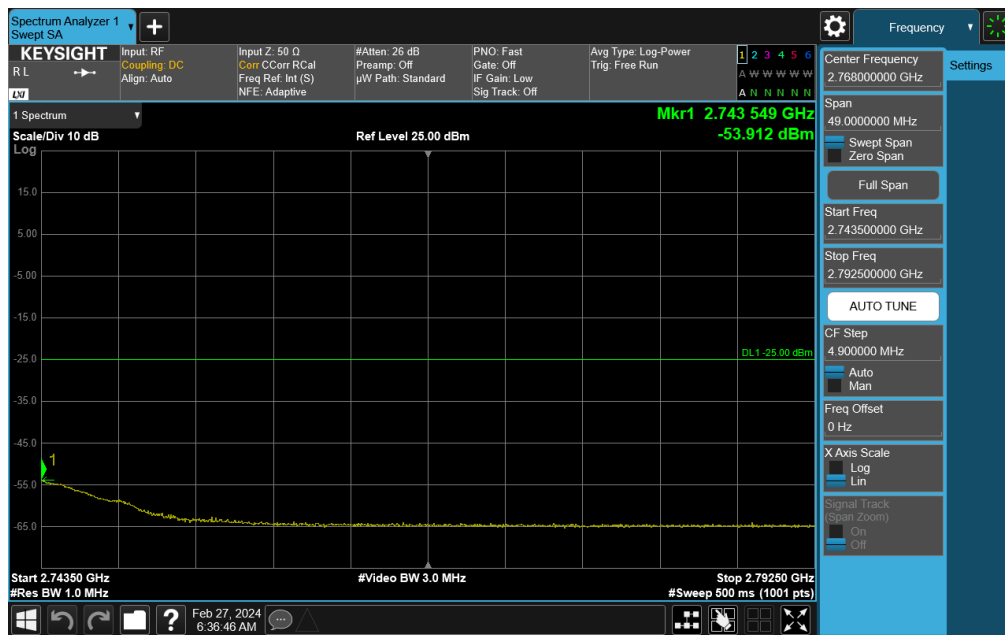


Plot 7-887. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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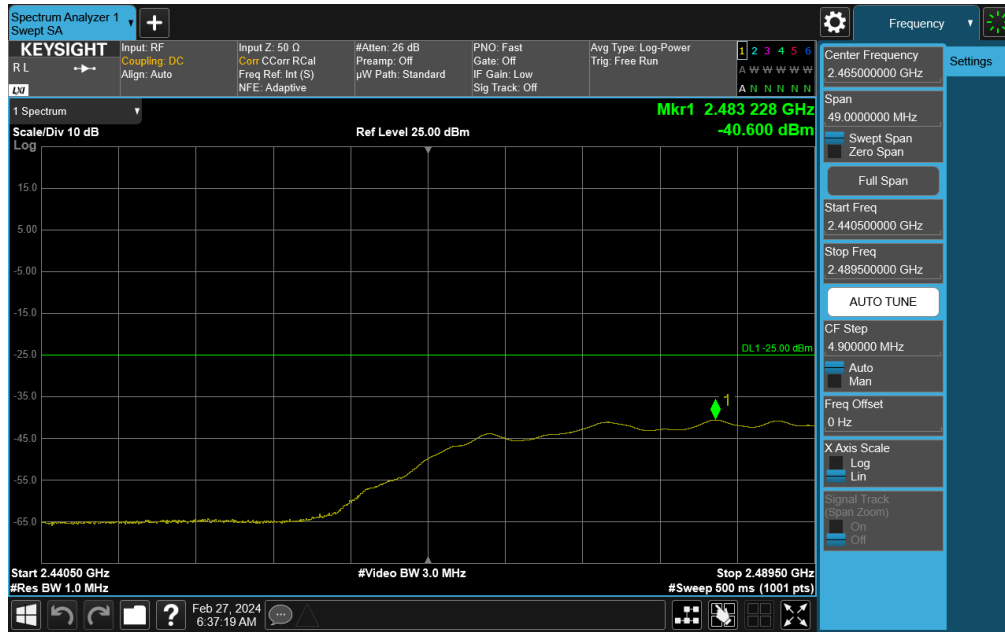


Plot 7-888. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

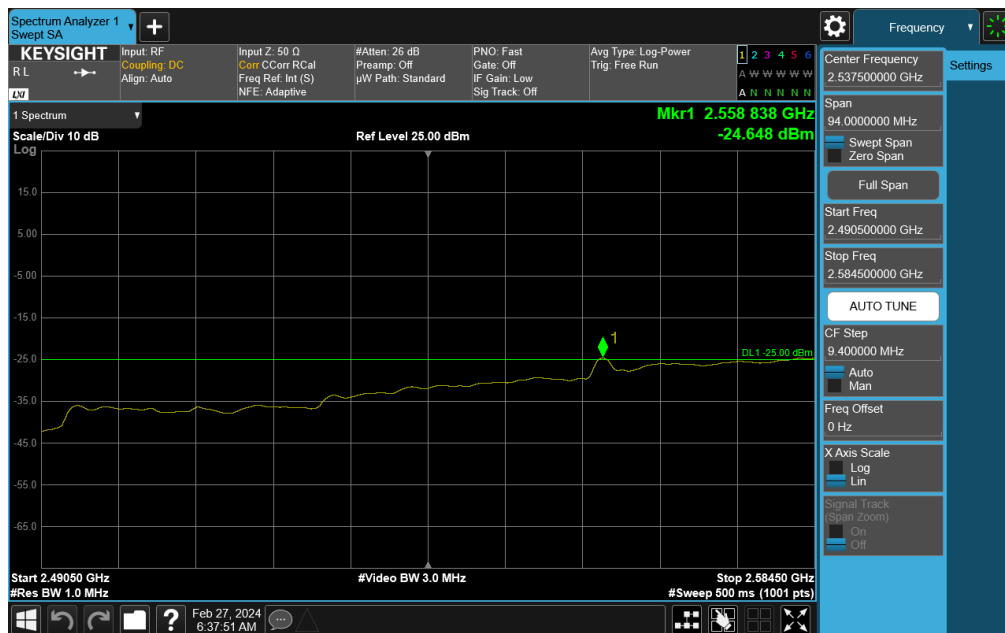


Plot 7-889. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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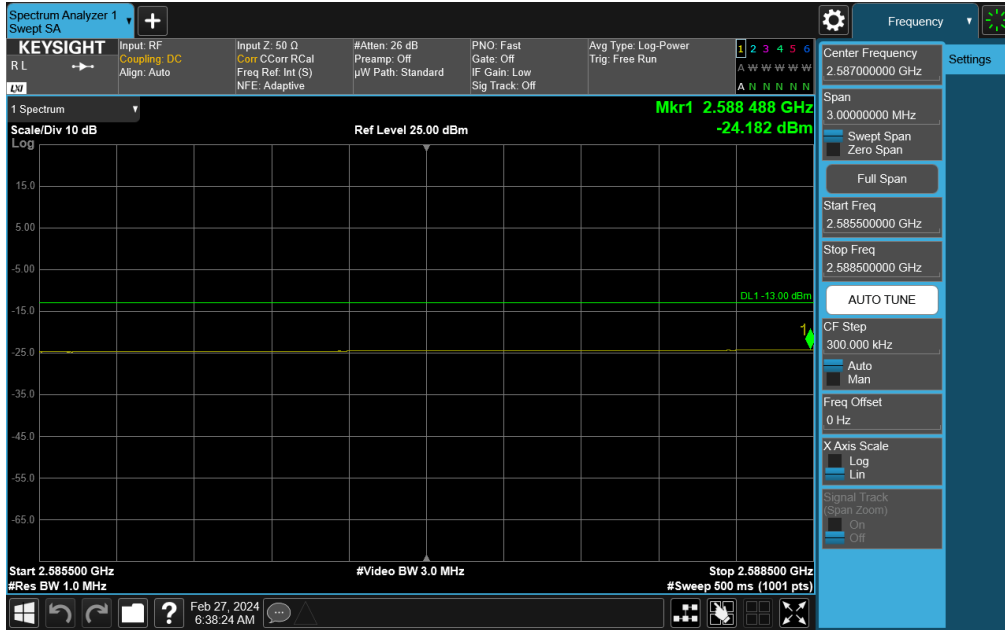


Plot 7-890. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

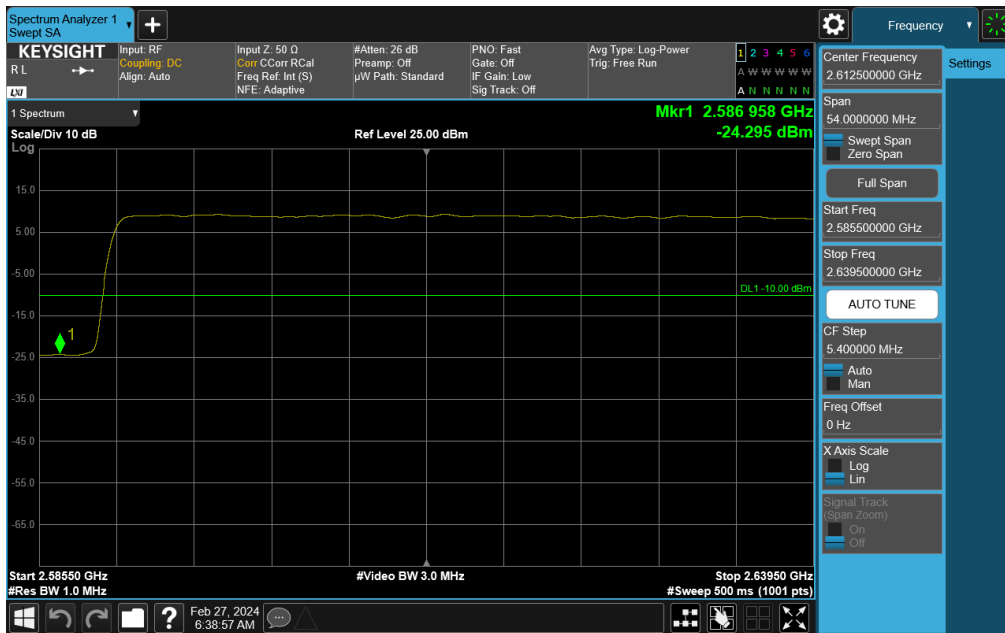


Plot 7-891. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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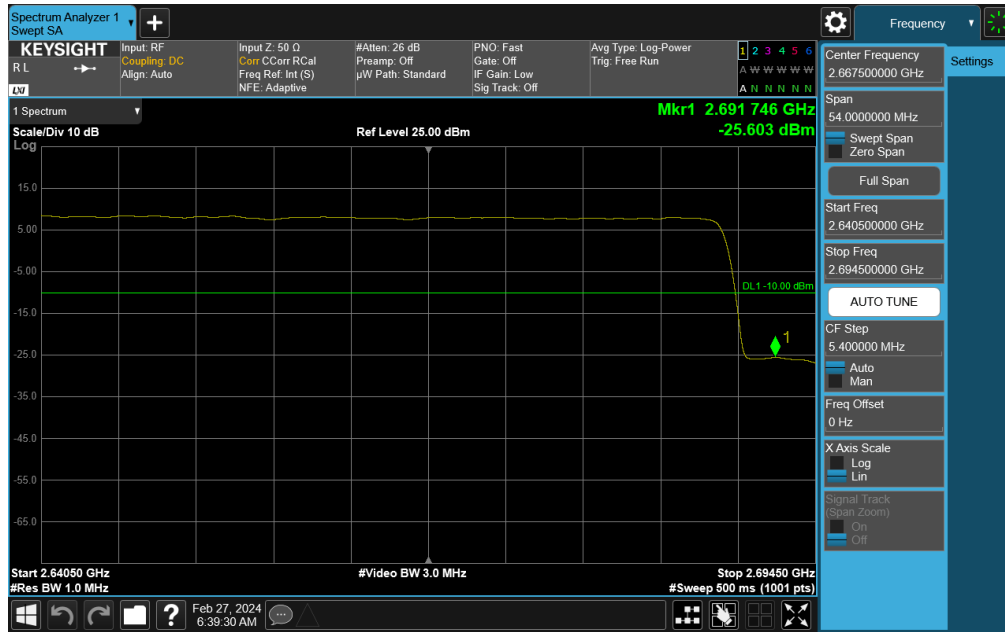


Plot 7-892. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

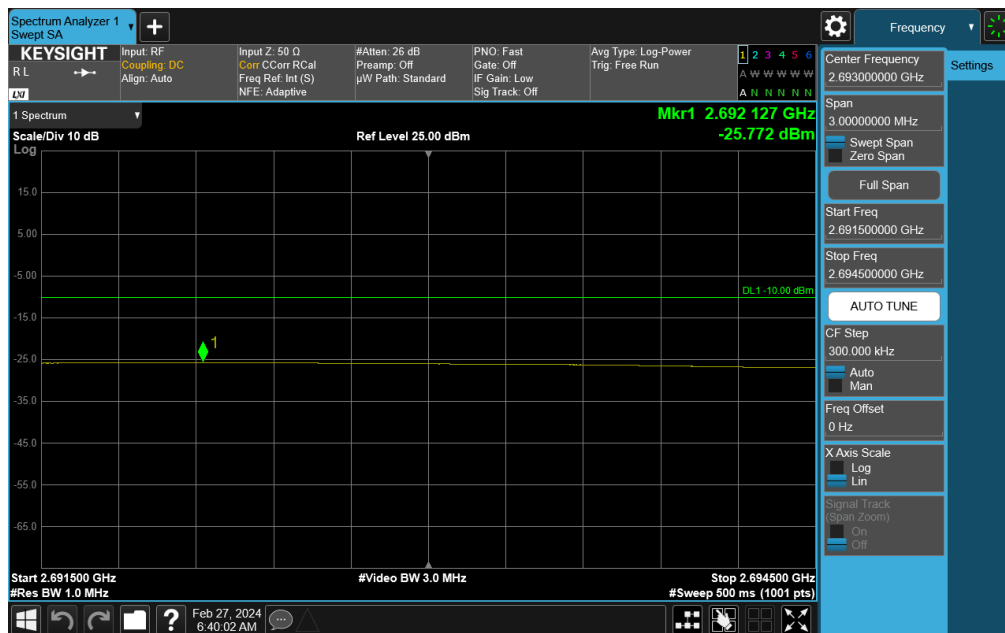


Plot 7-893. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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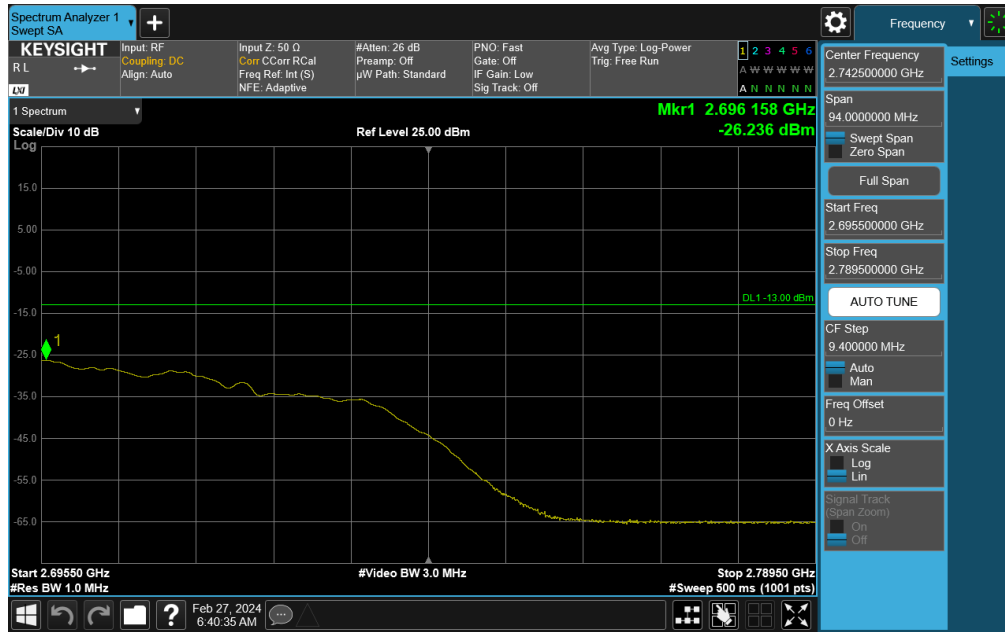


Plot 7-894. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

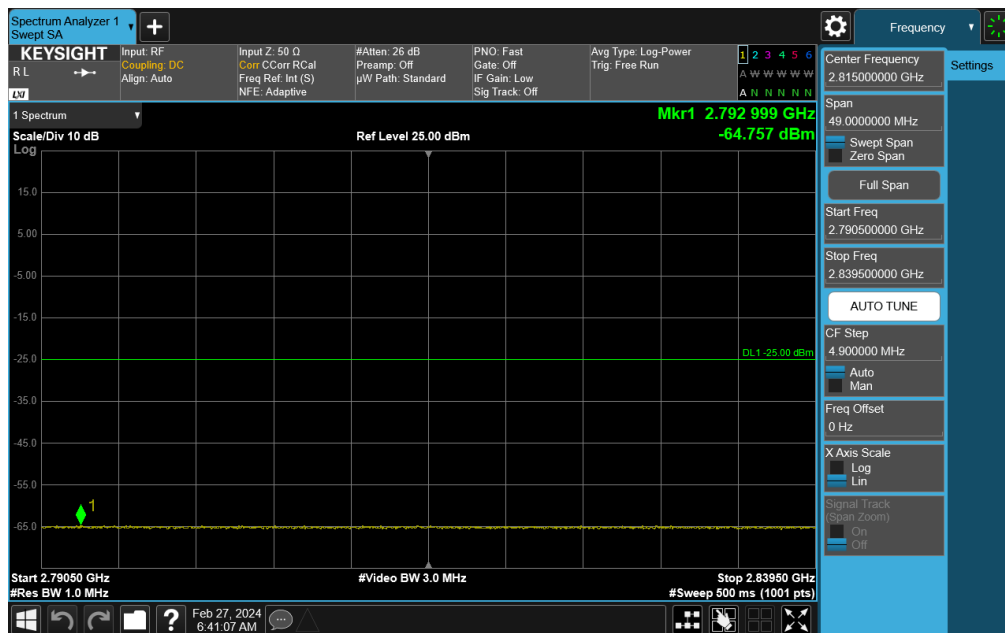


Plot 7-895. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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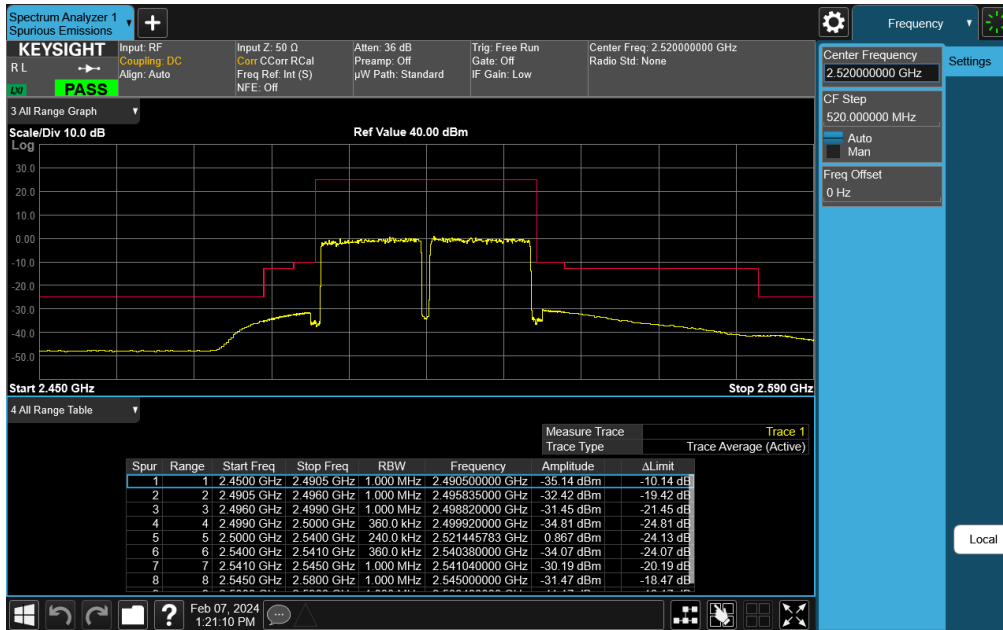
Plot 7-896. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



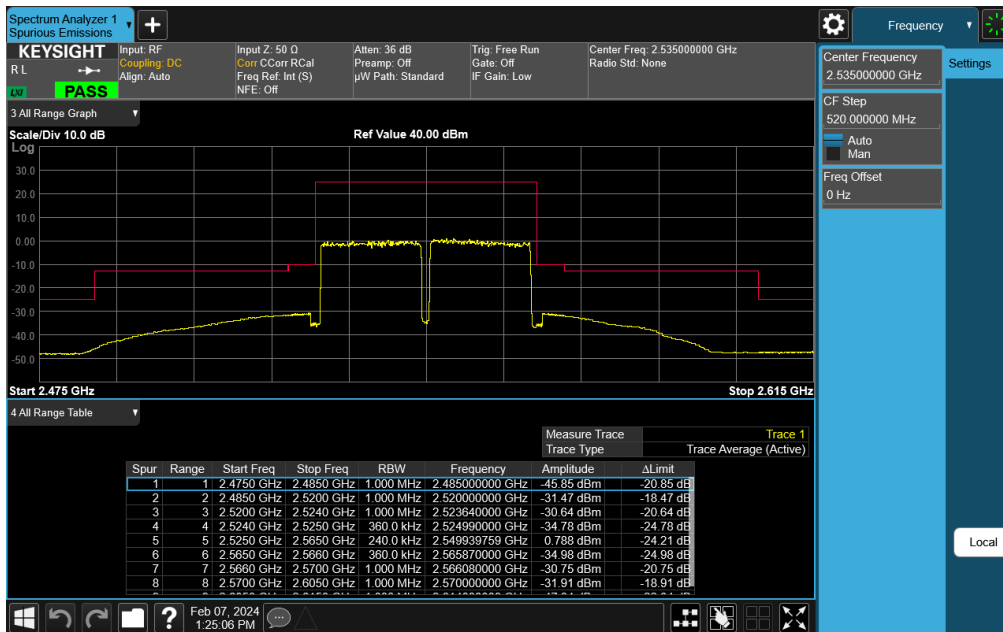
Plot 7-897. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - LTE Band 7

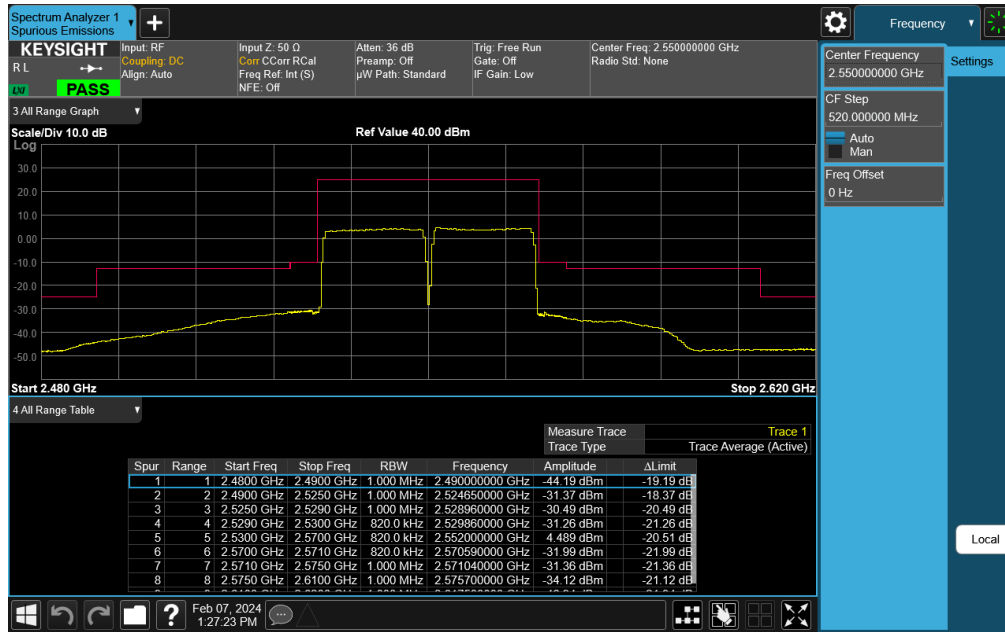


Plot 7-898. Lower ACP Plot (ULCA LTE Band 7 – (20+20)MHz QPSK - Full RB)



Plot 7-899. Middle ACP Plot (ULCA LTE Band 7 – (20+20)MHz QPSK - Full RB)

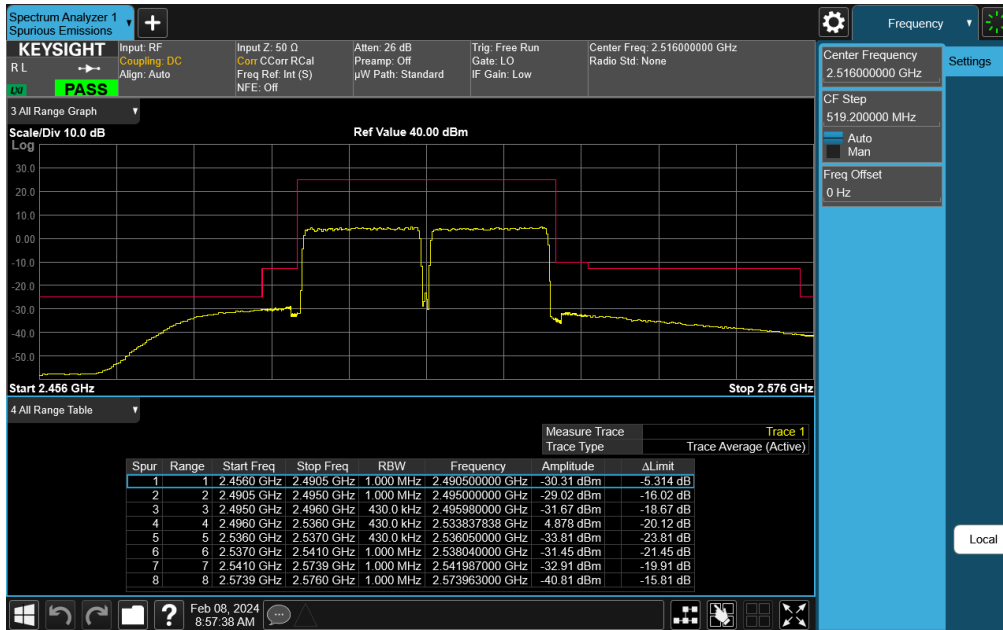
FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device
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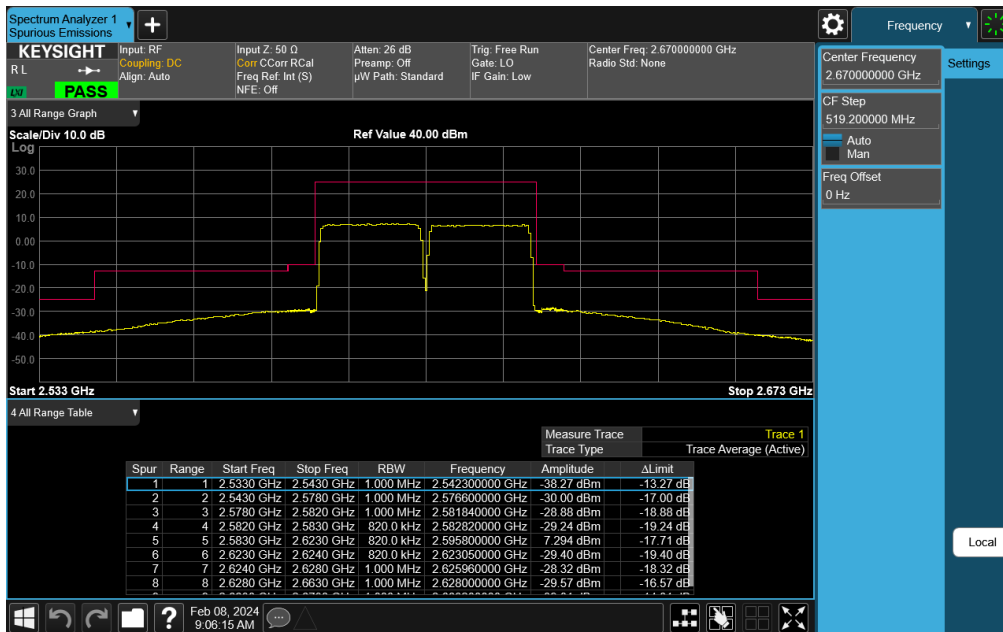
Plot 7-900. Upper ACP Plot (ULCA LTE Band 7 – (20+20)MHz QPSK - Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA - LTE Band 41

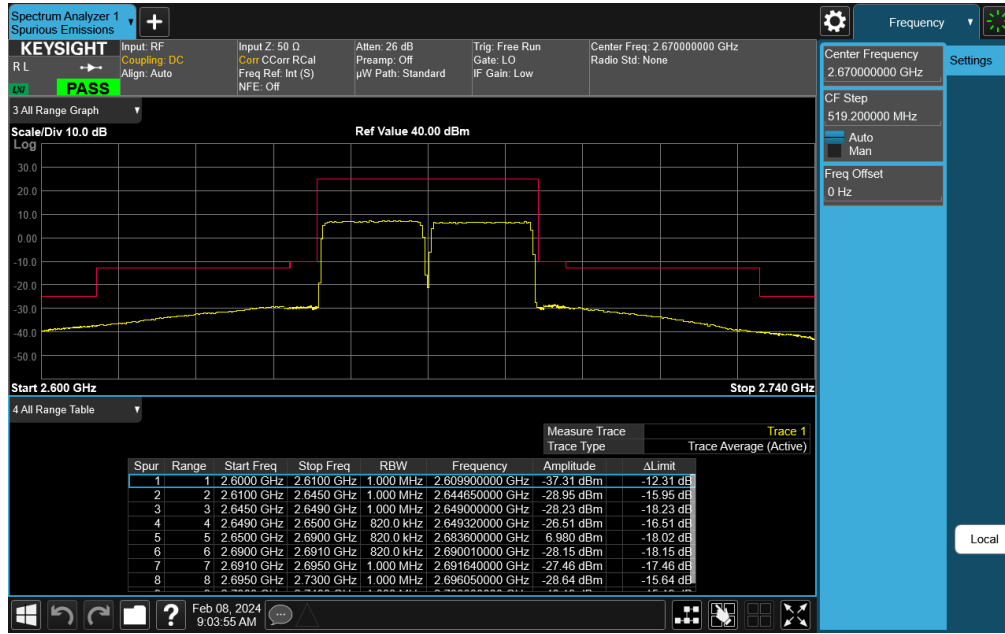


Plot 7-901. Lower ACP Plot (ULCA LTE Band 41 – (20+20)MHz QPSK - Full RB)



Plot 7-902. Middle ACP Plot (ULCA LTE Band 41 – (20+20)MHz QPSK - Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-903. Upper ACP Plot (ULCA LTE Band 41 – (20+20)MHz QPSK - Full RB)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.5 Additional Maximum Power Reduction (A-MPR)

§2.1046

Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. 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. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03

Test Setup

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

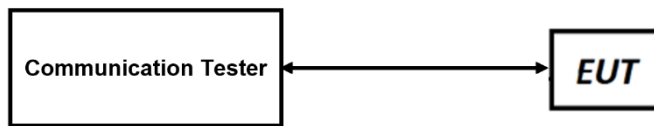



Figure 7-4. Conducted Power Measurement Setup

Test Notes

None.

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Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	RB Size	RB Offset	A-MPR [dB]	Modulation	MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]
1	01	312	530	5	39675	2498.5	1	0	3	QPSK	0	26.14	24.7	1.44
										16-QAM	1	24.45	23.7	0.75
										64-QAM	2	23.19	22.7	0.49
										256-QAM	4	21.28	20.7	0.58
2				5	39675	2498.5	1	9	0	QPSK	0	28.47	27.7	0.77
										16-QAM	1	27.16	26.7	0.46
										64-QAM	2	27.30	25.7	1.60
										256-QAM	4	24.75	23.7	1.05
3				10	39700	2501	1	0	5	QPSK	0	23.46	22.7	0.76
										16-QAM	1	23.45	21.7	1.75
										64-QAM	2	22.46	20.7	1.76
										256-QAM	4	19.76	18.7	1.06
4				10	39700	2501	20	0	2	QPSK	0	26.28	25.7	0.58
										16-QAM	1	25.47	24.7	0.77
										64-QAM	2	24.30	23.7	0.60
										256-QAM	4	22.28	21.7	0.58
5	10	39700	2501	50	0	3	QPSK	0	25.21	24.7	0.51			
							16-QAM	1	24.27	23.7	0.57			
							64-QAM	2	23.20	22.7	0.50			
							256-QAM	4	21.34	20.7	0.64			
6	10	39700	2501	25	20	1	QPSK	0	27.14	26.7	0.44			
							16-QAM	1	26.26	25.7	0.56			
							64-QAM	2	25.31	24.7	0.61			
							256-QAM	4	23.37	22.7	0.67			
7	10	39700	2501	1	36	0	QPSK	0	28.51	27.7	0.81			
							16-QAM	1	27.36	26.7	0.66			
							64-QAM	2	27.88	25.7	2.18			
							256-QAM	4	24.68	23.7	0.98			
8	15	39725	2503.5	1	0	5	QPSK	0	23.34	22.7	0.64			
							16-QAM	1	22.46	21.7	0.76			
							64-QAM	2	21.42	20.7	0.72			
							256-QAM	4	19.49	18.7	0.79			
9	15	39725	2503.5	20	0	2	QPSK	0	26.18	25.7	0.48			
							16-QAM	1	25.18	24.7	0.48			
							64-QAM	2	24.27	23.7	0.57			
							256-QAM	4	22.27	21.7	0.57			
10	15	39725	2503.5	75	0	4	QPSK	0	24.26	23.7	0.56			
							16-QAM	1	23.29	22.7	0.59			
							64-QAM	2	22.13	21.7	0.43			
							256-QAM	4	20.22	19.7	0.52			
11	15	39725	2503.5	50	15	3	QPSK	0	25.04	24.7	0.34			
							16-QAM	1	24.08	23.7	0.38			
							64-QAM	2	23.22	22.7	0.52			
							256-QAM	4	21.03	20.7	0.33			
12	15	39725	2503.5	1	60	0	QPSK	0	28.60	27.7	0.90			
							16-QAM	1	28.02	26.7	1.32			
							64-QAM	2	27.30	25.7	1.60			
							256-QAM	4	24.52	23.7	0.82			
13	20	39750	2506	1	0	5	QPSK	0	23.25	22.7	0.55			
							16-QAM	1	23.44	21.7	1.74			
							64-QAM	2	21.45	20.7	0.75			
							256-QAM	4	19.33	18.7	0.63			
14	20	39750	2506	20	0	2	QPSK	0	26.00	25.7	0.30			
							16-QAM	1	24.97	24.7	0.27			
							64-QAM	2	24.03	23.7	0.33			
							256-QAM	4	22.06	21.7	0.36			
15	20	39750	2506	100	0	4	QPSK	0	24.18	23.7	0.48			
							16-QAM	1	23.11	22.7	0.41			
							64-QAM	2	22.12	21.7	0.42			
							256-QAM	4	20.20	19.7	0.50			
16	20	39750	2506	75	24	3	QPSK	0	25.09	24.7	0.39			
							16-QAM	1	24.30	23.7	0.60			
							64-QAM	2	23.05	22.7	0.35			
							256-QAM	4	21.07	20.7	0.37			
17	20	39750	2506	1	77	0	QPSK	0	28.60	27.7	0.90			
							16-QAM	1	28.40	26.7	1.70			
							64-QAM	2	27.47	25.7	1.77			
							256-QAM	4	24.35	23.7	0.65			
18	01	311	490	5	39675	2498.5	1	0	3	QPSK	0	25.43	24.7	0.73
										16-QAM	1	24.19	23.7	0.49
										64-QAM	2	24.53	22.7	1.83
										256-QAM	4	21.46	20.7	0.76
19	01	001	01	5	39675	2498.5	1	0	0	QPSK	0	28.52	27.7	0.82
										16-QAM	1	28.13	26.7	1.43
										64-QAM	2	27.84	25.7	2.14
										256-QAM	4	24.47	23.7	0.77

Table 7-2. A-MPR Conducted Power Measurements

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7.6 Radiated Power (EIRP)

§27.50(a)(3), §27.50(h)(2)

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 – Section 5.2.5.5

Test Settings

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

$$EIRP = P_{Meas} - LC + GT$$

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as P_{Meas} , typically dBW or dBm)

P_{Meas} = 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.

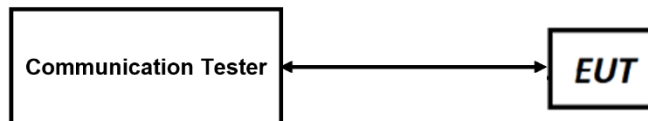




Figure 7-5. EIRP Measurement Setup

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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT 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. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
5. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and 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.
7. For ULCA, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz.

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7.6.1 Antenna 4b - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	-0.90	1 / 12	24.40	23.50	0.224	23.98	-0.48
		2310.0	-0.90	1 / 0	24.36	23.46	0.222	23.98	-0.52
		2312.5	-0.90	1 / 0	24.38	23.48	0.223	23.98	-0.50
	16-QAM	2307.5	-0.90	1 / 12	23.39	22.49	0.177	23.98	-1.49
	64-QAM	2310.0	-0.90	1 / 12	22.35	21.45	0.140	23.98	-2.53
	256-QAM	2310.0	-0.90	1 / 12	19.47	18.57	0.072	23.98	-5.41
10 MHz	QPSK	2310.0	-0.90	1 / 0	24.16	23.26	0.212	23.98	-0.72
	16-QAM	2310.0	-0.90	1 / 49	23.37	22.47	0.177	23.98	-1.51
	64-QAM	2310.0	-0.90	1 / 49	22.40	21.50	0.141	23.98	-2.48
	256-QAM	2310.0	-0.90	1 / 0	19.38	18.48	0.070	23.98	-5.50

Table 7-3. Antenna 4b EIRP Data (LTE Band 30)


FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-0.50	1 / 0	25.30	24.80	0.302	33.01	-8.21
		2535.0	-0.50	1 / 24	24.99	24.49	0.281	33.01	-8.52
		2567.5	-0.50	1 / 0	25.01	24.51	0.282	33.01	-8.50
	16-QAM	2535.0	-0.50	1 / 0	24.20	23.70	0.234	33.01	-9.31
	64-QAM	2567.5	-0.50	1 / 0	23.20	22.70	0.186	33.01	-10.31
	256-QAM	2502.5	-0.50	1 / 24	20.40	19.90	0.098	33.01	-13.11
10 MHz	QPSK	2505.0	-0.50	1 / 25	25.30	24.80	0.302	33.01	-8.21
		2535.0	-0.50	1 / 49	25.07	24.57	0.286	33.01	-8.44
		2565.0	-0.50	1 / 0	25.30	24.80	0.302	33.01	-8.21
	16-QAM	2565.0	-0.50	1 / 49	24.28	23.78	0.239	33.01	-9.23
	64-QAM	2565.0	-0.50	1 / 25	23.27	22.77	0.189	33.01	-10.24
	256-QAM	2565.0	-0.50	1 / 0	20.40	19.90	0.098	33.01	-13.11
15 MHz	QPSK	2507.5	-0.50	1 / 37	25.30	24.80	0.302	33.01	-8.21
		2535.0	-0.50	1 / 37	25.18	24.68	0.294	33.01	-8.33
		2562.5	-0.50	1 / 0	25.05	24.55	0.285	33.01	-8.46
	16-QAM	2562.5	-0.50	1 / 37	24.31	23.81	0.240	33.01	-9.20
	64-QAM	2507.5	-0.50	1 / 0	23.32	22.82	0.191	33.01	-10.19
	256-QAM	2562.5	-0.50	1 / 37	20.34	19.84	0.096	33.01	-13.17
20 MHz	QPSK	2510.0	-0.50	1 / 50	25.22	24.72	0.296	33.01	-8.29
		2535.0	-0.50	1 / 99	25.30	24.80	0.302	33.01	-8.21
		2560.0	-0.50	1 / 50	25.27	24.77	0.300	33.01	-8.24
	16-QAM	2560.0	-0.50	1 / 99	24.29	23.79	0.239	33.01	-9.22
	64-QAM	2535.0	-0.50	1 / 99	23.27	22.77	0.189	33.01	-10.24
	256-QAM	2560.0	-0.50	1 / 50	20.38	19.88	0.097	33.01	-13.13


Table 7-4. Antenna 4b EIRP Data (LTE Band 7)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 484 of 569

LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-0.20	1 / 0	27.19	26.99	0.500	33.01	-6.02
		2593.0	-0.20	1 / 12	27.01	26.81	0.480	33.01	-6.20
		2687.5	-0.20	1 / 0	27.12	26.92	0.492	33.01	-6.09
	16-QAM	2687.5	-0.20	1 / 24	26.32	26.12	0.409	33.01	-6.89
	64-QAM	2593.0	-0.20	1 / 12	25.26	25.06	0.321	33.01	-7.95
256-QAM	2498.5	-0.20	1 / 24	22.41	22.21	0.166	33.01	-10.80	
10 MHz	QPSK	2501.0	-0.20	1 / 49	27.10	26.90	0.490	33.01	-6.11
		2593.0	-0.20	1 / 25	27.13	26.93	0.493	33.01	-6.08
		2685.0	-0.20	1 / 25	27.30	27.10	0.513	33.01	-5.91
	16-QAM	2501.0	-0.20	1 / 49	26.27	26.07	0.405	33.01	-6.94
	64-QAM	2593.0	-0.20	1 / 49	25.28	25.08	0.322	33.01	-7.93
256-QAM	2685.0	-0.20	1 / 49	22.30	22.10	0.162	33.01	-10.91	
15 MHz	QPSK	2503.5	-0.20	1 / 74	27.14	26.94	0.494	33.01	-6.07
		2593.0	-0.20	1 / 37	27.27	27.07	0.509	33.01	-5.94
		2682.5	-0.20	1 / 37	27.14	26.94	0.494	33.01	-6.07
	16-QAM	2682.5	-0.20	1 / 74	26.34	26.14	0.411	33.01	-6.87
	64-QAM	2593.0	-0.20	1 / 0	25.29	25.09	0.323	33.01	-7.92
256-QAM	2593.0	-0.20	1 / 74	22.41	22.21	0.166	33.01	-10.80	
20 MHz	QPSK	2506.0	-0.20	1 / 0	27.03	26.83	0.482	33.01	-6.18
		2593.0	-0.20	1 / 0	27.04	26.84	0.483	33.01	-6.17
		2680.0	-0.20	1 / 0	27.10	26.90	0.490	33.01	-6.11
	16-QAM	2593.0	-0.20	1 / 99	26.23	26.03	0.401	33.01	-6.98
	64-QAM	2506.0	-0.20	1 / 50	25.38	25.18	0.330	33.01	-7.83
256-QAM	2680.0	-0.20	1 / 50	22.32	22.12	0.163	33.01	-10.89	


Table 7-5. Antenna 4b EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 485 of 569

LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-0.20	1 / 24	25.63	25.43	0.349	33.01	-7.58
		2593.0	-0.20	1 / 24	25.69	25.49	0.354	33.01	-7.52
		2687.5	-0.20	1 / 0	25.47	25.27	0.337	33.01	-7.74
	16-QAM	2687.5	-0.20	1 / 12	24.65	24.45	0.279	33.01	-8.56
	64-QAM	2593.0	-0.20	1 / 12	23.66	23.46	0.222	33.01	-9.55
256-QAM	2593.0	-0.20	1 / 12	20.78	20.58	0.114	33.01	-12.43	
10 MHz	QPSK	2501.0	-0.20	1 / 0	25.66	25.46	0.352	33.01	-7.55
		2593.0	-0.20	1 / 0	25.70	25.50	0.355	33.01	-7.51
		2685.0	-0.20	1 / 25	25.42	25.22	0.333	33.01	-7.79
	16-QAM	2685.0	-0.20	1 / 25	24.68	24.48	0.281	33.01	-8.53
	64-QAM	2685.0	-0.20	1 / 0	23.66	23.46	0.222	33.01	-9.55
256-QAM	2501.0	-0.20	1 / 49	20.81	20.61	0.115	33.01	-12.40	
15 MHz	QPSK	2503.5	-0.20	1 / 37	25.67	25.47	0.352	33.01	-7.54
		2593.0	-0.20	1 / 74	25.70	25.50	0.355	33.01	-7.51
		2682.5	-0.20	1 / 37	25.45	25.25	0.335	33.01	-7.76
	16-QAM	2593.0	-0.20	1 / 74	24.67	24.47	0.280	33.01	-8.54
	64-QAM	2682.5	-0.20	1 / 0	23.71	23.51	0.224	33.01	-9.50
256-QAM	2503.5	-0.20	1 / 37	20.74	20.54	0.113	33.01	-12.47	
20 MHz	QPSK	2506.0	-0.20	1 / 99	25.65	25.45	0.351	33.01	-7.56
		2593.0	-0.20	1 / 50	25.70	25.50	0.355	33.01	-7.51
		2680.0	-0.20	1 / 50	25.54	25.34	0.342	33.01	-7.67
	16-QAM	2506.0	-0.20	1 / 0	24.69	24.49	0.281	33.01	-8.52
	64-QAM	2680.0	-0.20	1 / 50	23.59	23.39	0.218	33.01	-9.62
256-QAM	2506.0	-0.20	1 / 50	20.73	20.53	0.113	33.01	-12.48	


Table 7-6. Antenna 4b EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 486 of 569

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	-0.90	1 / 12	24.30	23.40	0.219	23.98	-0.58
		2310.0	-0.90	1 / 12	24.27	23.37	0.217	23.98	-0.61
		2312.5	-0.90	1 / 12	24.40	23.50	0.224	23.98	-0.48
	QPSK	2307.5	-0.90	1 / 12	24.35	23.45	0.221	23.98	-0.53
		2310.0	-0.90	1 / 12	24.33	23.43	0.220	23.98	-0.55
		2312.5	-0.90	1 / 12	24.35	23.45	0.221	23.98	-0.53
	16-QAM	2310.0	-0.90	1 / 12	23.38	22.48	0.177	23.98	-1.50
	64-QAM	2310.0	-0.90	1 / 12	22.40	21.50	0.141	23.98	-2.48
	256-QAM	2307.5	-0.90	1 / 12	19.40	18.50	0.071	23.98	-5.48
10 MHz	π/2 BPSK	2310.0	-0.90	1 / 25	24.29	23.39	0.218	23.98	-0.59
	QPSK	2310.0	-0.90	1 / 25	24.36	23.46	0.222	23.98	-0.52
	16-QAM	2310.0	-0.90	1 / 25	23.45	22.55	0.180	23.98	-1.43
	64-QAM	2310.0	-0.90	1 / 25	22.32	21.42	0.139	23.98	-2.56
	256-QAM	2310.0	-0.90	1 / 25	19.54	18.64	0.073	23.98	-5.34

Table 7-7. Antenna 4b EIRP Data (NR Band n30)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 487 of 569

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dB]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
5 MHz	π/2 BPSK	2502.5	-0.50	1 / 12	25.02	24.52	0.283	33.01	-8.49	
		2535.0	-0.50	1 / 1	25.29	24.79	0.301	33.01	-8.22	
		2567.5	-0.50	1 / 1	25.30	24.80	0.302	33.01	-8.21	
	QPSK	2502.5	-0.50	1 / 12	25.22	24.72	0.296	33.01	-8.29	
		2535.0	-0.50	1 / 23	25.30	24.80	0.302	33.01	-8.21	
		2567.5	-0.50	1 / 12	25.22	24.72	0.296	33.01	-8.29	
		2535.0	-0.50	1 / 12	24.28	23.78	0.239	33.01	-9.23	
		2502.5	-0.50	1 / 12	23.22	22.72	0.187	33.01	-10.29	
256-QAM	2567.5	-0.50	1 / 23	20.40	19.90	0.098	33.01	-13.11		
10 MHz	π/2 BPSK	2505.0	-0.50	1 / 25	25.24	24.74	0.298	33.01	-8.27	
		2535.0	-0.50	1 / 1	25.23	24.73	0.297	33.01	-8.28	
		2565.0	-0.50	1 / 25	25.16	24.66	0.292	33.01	-8.35	
	QPSK	2505.0	-0.50	1 / 50	25.09	24.59	0.288	33.01	-8.42	
		2535.0	-0.50	1 / 50	25.30	24.80	0.302	33.01	-8.21	
		2565.0	-0.50	1 / 50	25.20	24.70	0.295	33.01	-8.31	
		16-QAM	2565.0	-0.50	1 / 50	24.28	23.78	0.239	33.01	-9.23
		64-QAM	2505.0	-0.50	1 / 25	23.20	22.70	0.186	33.01	-10.31
		256-QAM	2505.0	-0.50	1 / 25	20.40	19.90	0.098	33.01	-13.11
15 MHz	π/2 BPSK	2507.5	-0.50	1 / 77	25.11	24.61	0.289	33.01	-8.40	
		2535.0	-0.50	1 / 77	25.20	24.70	0.295	33.01	-8.31	
		2562.5	-0.50	1 / 1	25.16	24.66	0.292	33.01	-8.35	
	QPSK	2507.5	-0.50	1 / 1	25.20	24.70	0.295	33.01	-8.31	
		2535.0	-0.50	1 / 77	25.30	24.80	0.302	33.01	-8.21	
		2562.5	-0.50	1 / 37	25.27	24.77	0.300	33.01	-8.24	
		16-QAM	2562.5	-0.50	1 / 1	24.23	23.73	0.236	33.01	-9.28
		64-QAM	2507.5	-0.50	1 / 37	23.27	22.77	0.189	33.01	-10.24
		256-QAM	2507.5	-0.50	1 / 37	20.30	19.80	0.095	33.01	-13.21
20 MHz	π/2 BPSK	2510.0	-0.50	1 / 104	25.30	24.80	0.302	33.01	-8.21	
		2535.0	-0.50	1 / 104	25.28	24.78	0.301	33.01	-8.23	
		2560.0	-0.50	1 / 50	25.27	24.77	0.300	33.01	-8.24	
	QPSK	2510.0	-0.50	1 / 104	25.24	24.74	0.298	33.01	-8.27	
		2535.0	-0.50	1 / 50	25.26	24.76	0.299	33.01	-8.25	
		2560.0	-0.50	1 / 104	25.29	24.79	0.301	33.01	-8.22	
		16-QAM	2560.0	-0.50	1 / 104	24.30	23.80	0.240	33.01	-9.21
		64-QAM	2535.0	-0.50	1 / 50	23.25	22.75	0.188	33.01	-10.26
		256-QAM	2535.0	-0.50	1 / 104	20.33	19.83	0.096	33.01	-13.18
25 MHz	π/2 BPSK	2512.5	-0.50	1 / 131	25.24	24.74	0.298	33.01	-8.27	
		2535.0	-0.50	1 / 1	25.30	24.80	0.302	33.01	-8.21	
		2557.5	-0.50	1 / 1	25.28	24.78	0.301	33.01	-8.23	
	QPSK	2512.5	-0.50	1 / 131	25.26	24.76	0.299	33.01	-8.25	
		2535.0	-0.50	1 / 1	25.06	24.56	0.286	33.01	-8.45	
		2557.5	-0.50	1 / 66	25.27	24.77	0.300	33.01	-8.24	
		16-QAM	2557.5	-0.50	1 / 1	24.29	23.79	0.239	33.01	-9.22
		64-QAM	2557.5	-0.50	1 / 66	23.25	22.75	0.188	33.01	-10.26
		256-QAM	2557.5	-0.50	1 / 131	20.37	19.87	0.097	33.01	-13.14
30 MHz	π/2 BPSK	2515.0	-0.50	1 / 1	25.22	24.72	0.296	33.01	-8.29	
		2535.0	-0.50	1 / 1	25.28	24.78	0.301	33.01	-8.23	
		2555.0	-0.50	1 / 158	25.22	24.72	0.296	33.01	-8.29	
	QPSK	2515.0	-0.50	1 / 158	25.00	24.50	0.282	33.01	-8.51	
		2535.0	-0.50	1 / 158	25.30	24.80	0.302	33.01	-8.21	
		2555.0	-0.50	1 / 158	25.28	24.78	0.301	33.01	-8.23	
		16-QAM	2555.0	-0.50	1 / 158	24.32	23.82	0.241	33.01	-9.19
		64-QAM	2555.0	-0.50	1 / 158	23.32	22.82	0.191	33.01	-10.19
		256-QAM	2535.0	-0.50	1 / 80	20.36	19.86	0.097	33.01	-13.15
35 MHz	π/2 BPSK	2517.5	-0.50	1 / 1	25.11	24.61	0.289	33.01	-8.40	
		2535.0	-0.50	1 / 186	25.28	24.78	0.301	33.01	-8.23	
		2552.5	-0.50	1 / 186	25.17	24.67	0.293	33.01	-8.34	
	QPSK	2517.5	-0.50	1 / 93	25.27	24.77	0.300	33.01	-8.24	
		2535.0	-0.50	1 / 1	25.22	24.72	0.296	33.01	-8.29	
		2552.5	-0.50	1 / 186	25.30	24.80	0.302	33.01	-8.21	
		16-QAM	2552.5	-0.50	1 / 93	24.32	23.82	0.241	33.01	-9.19
		64-QAM	2535.0	-0.50	1 / 186	23.29	22.79	0.190	33.01	-10.22
		256-QAM	2552.5	-0.50	1 / 186	20.35	19.85	0.097	33.01	-13.16
40 MHz	π/2 BPSK	2520.0	-0.50	1 / 1	25.24	24.74	0.298	33.01	-8.27	
		2535.0	-0.50	1 / 214	25.26	24.76	0.299	33.01	-8.25	
		2550.0	-0.50	1 / 1	25.29	24.79	0.301	33.01	-8.22	
	QPSK	2520.0	-0.50	1 / 1	25.21	24.71	0.296	33.01	-8.30	
		2535.0	-0.50	1 / 108	25.30	24.80	0.302	33.01	-8.21	
		2550.0	-0.50	1 / 108	25.19	24.69	0.294	33.01	-8.32	
		16-QAM	2535.0	-0.50	1 / 214	24.24	23.74	0.237	33.01	-9.27
		64-QAM	2535.0	-0.50	1 / 1	23.20	22.70	0.186	33.01	-10.31
		256-QAM	2550.0	-0.50	1 / 1	20.35	19.85	0.097	33.01	-13.16

Table 7-8. Antenna 4b EIRP Data (NR Band n7)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device
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ULCA – Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	25.30	-0.50	24.80	0.302	33.01	-8.21
				21100	2535.0	1	99		21298	2554.8	1	0	24.82	-0.50	24.32	0.270	33.01	-8.69
				21350	2560.0	1	0		21152	2540.2	1	99	24.90	-0.50	24.40	0.275	33.01	-8.61
			QPSK	20850	2510	100	0	21048	2529.8	100	0	24.32	-0.50	23.82	0.241	33.01	-8.19	
				16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	22.70	-0.50	22.20	0.166	33.01
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	21.77	-0.50	21.27	0.134	33.01	-11.74
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	18.90	-0.50	18.40	0.069	33.01	-14.61

Table 7-11. Antenna 4b EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	27.20	-0.20	27.00	0.501	33.01	-6.01
				39790	2510.0	1	99		39988	2529.8	1	0	26.84	-0.20	26.64	0.461	33.01	-6.37
				40620	2593.0	1	99		40818	2612.8	1	0	27.10	-0.20	26.90	0.490	33.01	-6.11
				41490	2680.0	1	0		41292	2660.2	1	99	27.25	-0.20	27.05	0.507	33.01	-5.96
			QPSK	41490	2680	100	0	QPSK	41292	2660.2	100	0	26.07	-0.20	25.87	0.386	33.01	-7.14
			16-QAM	41490	2680	100	0	16-QAM	41292	2660.2	100	0	24.46	-0.20	24.26	0.267	33.01	-8.75
			64-QAM	41490	2680	100	0	64-QAM	41292	2660.2	100	0	24.26	-0.20	24.06	0.255	33.01	-8.95
			256-QAM	41490	2680	100	0	256-QAM	41292	2660.2	100	0	21.31	-0.20	21.11	0.128	33.01	-11.90

Table 7-12. Antenna 4b EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.65	-0.20	25.45	0.351	33.01	-7.56
				39790	2510.0	1	99		39988	2529.8	1	0	25.51	-0.20	25.31	0.340	33.01	-7.70
				40620	2593.0	1	99		40818	2612.8	1	0	25.50	-0.20	25.30	0.339	33.01	-7.71
				41490	2680.0	1	0		41292	2660.2	1	99	25.37	-0.20	25.17	0.329	33.01	-7.84
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	24.22	-0.20	24.02	0.252	33.01	-8.99
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	22.95	-0.20	22.75	0.188	33.01	-10.26
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	22.37	-0.20	22.17	0.165	33.01	-10.84
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	19.21	-0.20	19.01	0.080	33.01	-14.00

Table 7-13. Antenna 4b EIRP Data (ULCA LTE Band 41 (PC3))


FCC ID: BCGA2837		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.2 Antenna 1 - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	-1.30	1 / 0	22.20	20.90	0.123	23.98	-3.08
		2310.0	-1.30	1 / 24	21.98	20.68	0.117	23.98	-3.30
		2312.5	-1.30	1 / 24	22.06	20.76	0.119	23.98	-3.22
	16-QAM	2307.5	-1.30	1 / 0	21.19	19.89	0.097	23.98	-4.09
	64-QAM	2312.5	-1.30	1 / 0	20.19	18.89	0.077	23.98	-5.09
	256-QAM	2307.5	-1.30	1 / 12	17.30	16.00	0.040	23.98	-7.98
10 MHz	QPSK	2310.0	-1.30	1 / 25	22.20	20.90	0.123	23.98	-3.08
	16-QAM	2310.0	-1.30	1 / 49	20.97	19.67	0.093	23.98	-4.31
	64-QAM	2310.0	-1.30	1 / 49	20.18	18.88	0.077	23.98	-5.10
	256-QAM	2310.0	-1.30	1 / 0	16.99	15.69	0.037	23.98	-8.29


Table 7-14. Antenna 1 EIRP Data (LTE Band 30)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	1.40	1 / 0	22.17	23.57	0.228	33.01	-9.44
		2535.0	1.40	1 / 0	22.20	23.60	0.229	33.01	-9.41
		2567.5	1.40	1 / 12	22.20	23.60	0.229	33.01	-9.41
	16-QAM	2535.0	1.40	1 / 0	21.14	22.54	0.179	33.01	-10.47
	64-QAM	2535.0	1.40	1 / 24	20.20	21.60	0.145	33.01	-11.41
	256-QAM	2502.5	1.40	1 / 0	17.29	18.69	0.074	33.01	-14.32
10 MHz	QPSK	2505.0	1.40	1 / 0	22.20	23.60	0.229	33.01	-9.41
		2535.0	1.40	1 / 0	21.95	23.35	0.216	33.01	-9.66
		2565.0	1.40	1 / 49	22.04	23.44	0.221	33.01	-9.57
	16-QAM	2505.0	1.40	1 / 0	21.10	22.50	0.178	33.01	-10.51
	64-QAM	2535.0	1.40	1 / 25	20.19	21.59	0.144	33.01	-11.42
	256-QAM	2505.0	1.40	1 / 0	17.30	18.70	0.074	33.01	-14.31
15 MHz	QPSK	2507.5	1.40	1 / 0	22.18	23.58	0.228	33.01	-9.43
		2535.0	1.40	1 / 74	22.11	23.51	0.224	33.01	-9.50
		2562.5	1.40	1 / 74	22.16	23.56	0.227	33.01	-9.45
	16-QAM	2507.5	1.40	1 / 74	21.17	22.57	0.181	33.01	-10.44
	64-QAM	2507.5	1.40	1 / 74	20.20	21.60	0.145	33.01	-11.41
	256-QAM	2507.5	1.40	1 / 0	17.29	18.69	0.074	33.01	-14.32
20 MHz	QPSK	2510.0	1.40	1 / 50	22.20	23.60	0.229	33.01	-9.41
		2535.0	1.40	1 / 0	22.15	23.55	0.226	33.01	-9.46
		2560.0	1.40	1 / 50	22.19	23.59	0.229	33.01	-9.42
	16-QAM	2535.0	1.40	1 / 99	21.21	22.61	0.182	33.01	-10.40
	64-QAM	2560.0	1.40	1 / 99	20.20	21.60	0.145	33.01	-11.41
	256-QAM	2535.0	1.40	1 / 50	17.29	18.69	0.074	33.01	-14.32


Table 7-15. Antenna 1 EIRP Data (LTE Band 7)

FCC ID: BCGA2837		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.60	1 / 12	28.70	30.30	1.072	33.01	-2.71
		2593.0	1.60	1 / 0	28.66	30.26	1.062	33.01	-2.75
		2687.5	1.60	1 / 0	28.53	30.13	1.030	33.01	-2.88
	16-QAM	2498.5	1.60	1 / 0	27.68	29.28	0.847	33.01	-3.73
	64-QAM	2593.0	1.60	1 / 0	26.70	28.30	0.676	33.01	-4.71
	256-QAM	2687.5	1.60	1 / 0	23.74	25.34	0.342	33.01	-7.67
10 MHz	QPSK	2501.0	1.60	1 / 25	28.70	30.30	1.072	33.01	-2.71
		2593.0	1.60	1 / 25	28.48	30.08	1.019	33.01	-2.93
		2685.0	1.60	1 / 49	28.53	30.13	1.030	33.01	-2.88
	16-QAM	2501.0	1.60	1 / 25	27.70	29.30	0.851	33.01	-3.71
	64-QAM	2501.0	1.60	1 / 0	26.61	28.21	0.662	33.01	-4.80
	256-QAM	2593.0	1.60	1 / 0	23.73	25.33	0.341	33.01	-7.68
15 MHz	QPSK	2503.5	1.60	1 / 74	28.60	30.20	1.047	33.01	-2.81
		2593.0	1.60	1 / 0	28.62	30.22	1.052	33.01	-2.79
		2682.5	1.60	1 / 74	28.64	30.24	1.057	33.01	-2.77
	16-QAM	2503.5	1.60	1 / 0	27.71	29.31	0.853	33.01	-3.70
	64-QAM	2593.0	1.60	1 / 74	26.69	28.29	0.675	33.01	-4.72
	256-QAM	2682.5	1.60	1 / 0	23.80	25.40	0.347	33.01	-7.61
20 MHz	QPSK	2506.0	1.60	1 / 50	28.59	30.19	1.045	33.01	-2.82
		2593.0	1.60	1 / 50	28.67	30.27	1.064	33.01	-2.74
		2680.0	1.60	1 / 0	28.70	30.30	1.072	33.01	-2.71
	16-QAM	2506.0	1.60	1 / 50	27.71	29.31	0.853	33.01	-3.70
	64-QAM	2593.0	1.60	1 / 50	26.65	28.25	0.668	33.01	-4.76
	256-QAM	2593.0	1.60	1 / 0	23.81	25.41	0.348	33.01	-7.60


Table 7-16. Antenna 1 EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 494 of 569

LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.60	1 / 0	25.61	27.21	0.526	33.01	-5.80
		2593.0	1.60	1 / 24	25.70	27.30	0.537	33.01	-5.71
		2687.5	1.60	1 / 12	25.68	27.28	0.535	33.01	-5.73
	16-QAM	2498.5	1.60	1 / 0	24.64	26.24	0.421	33.01	-6.77
	64-QAM	2498.5	1.60	1 / 12	23.70	25.30	0.339	33.01	-7.71
256-QAM	2498.5	1.60	1 / 24	20.80	22.40	0.174	33.01	-10.61	
10 MHz	QPSK	2501.0	1.60	1 / 0	25.53	27.13	0.516	33.01	-5.88
		2593.0	1.60	1 / 49	25.70	27.30	0.537	33.01	-5.71
		2685.0	1.60	1 / 0	25.65	27.25	0.531	33.01	-5.76
	16-QAM	2501.0	1.60	1 / 49	24.71	26.31	0.428	33.01	-6.70
	64-QAM	2501.0	1.60	1 / 49	23.47	25.07	0.321	33.01	-7.94
256-QAM	2501.0	1.60	1 / 0	20.64	22.24	0.167	33.01	-10.77	
15 MHz	QPSK	2503.5	1.60	1 / 37	25.35	26.95	0.495	33.01	-6.06
		2593.0	1.60	1 / 0	25.49	27.09	0.512	33.01	-5.92
		2682.5	1.60	1 / 74	25.66	27.26	0.532	33.01	-5.75
	16-QAM	2503.5	1.60	1 / 0	24.32	25.92	0.391	33.01	-7.09
	64-QAM	2503.5	1.60	1 / 74	23.65	25.25	0.335	33.01	-7.76
256-QAM	2503.5	1.60	1 / 37	20.60	22.20	0.166	33.01	-10.81	
20 MHz	QPSK	2506.0	1.60	1 / 50	25.53	27.13	0.516	33.01	-5.88
		2593.0	1.60	1 / 0	25.69	27.29	0.536	33.01	-5.72
		2680.0	1.60	1 / 0	25.41	27.01	0.502	33.01	-6.00
	16-QAM	2506.0	1.60	1 / 99	24.65	26.25	0.422	33.01	-6.76
	64-QAM	2506.0	1.60	1 / 50	23.70	25.30	0.339	33.01	-7.71
256-QAM	2506.0	1.60	1 / 50	20.79	22.39	0.173	33.01	-10.62	


Table 7-17. Antenna 1 EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	-1.30	1 / 12	22.06	20.76	0.119	23.98	-3.22
		2310.0	-1.30	1 / 12	22.08	20.78	0.120	23.98	-3.20
		2312.5	-1.30	1 / 12	21.78	20.48	0.112	23.98	-3.50
	QPSK	2307.5	-1.30	1 / 12	22.20	20.90	0.123	23.98	-3.08
		2310.0	-1.30	1 / 12	22.13	20.83	0.121	23.98	-3.15
		2312.5	-1.30	1 / 12	22.14	20.84	0.121	23.98	-3.14
	16-QAM	2312.5	-1.30	1 / 12	21.20	19.90	0.098	23.98	-4.08
64-QAM	2310.0	-1.30	1 / 12	20.12	18.82	0.076	23.98	-5.16	
256-QAM	2307.5	-1.30	1 / 12	17.29	15.99	0.040	23.98	-7.99	
10 MHz	π/2 BPSK	2310.0	-1.30	1 / 25	22.06	20.76	0.119	23.98	-3.22
	QPSK	2310.0	-1.30	1 / 25	22.19	20.89	0.123	23.98	-3.09
	16-QAM	2310.0	-1.30	1 / 25	21.02	19.72	0.094	23.98	-4.26
	64-QAM	2310.0	-1.30	1 / 25	20.20	18.90	0.078	23.98	-5.08
	256-QAM	2310.0	-1.30	1 / 25	16.98	15.68	0.037	23.98	-8.30

Table 7-18. Antenna 1 EIRP Data (NR Band n30)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	1.40	1 / 1	22.20	23.60	0.229	33.01	-9.41
		2535.0	1.40	1 / 23	22.16	23.56	0.227	33.01	-9.45
		2567.5	1.40	1 / 12	22.12	23.52	0.225	33.01	-9.49
	QPSK	2502.5	1.40	1 / 1	22.20	23.60	0.229	33.01	-9.41
		2535.0	1.40	1 / 12	22.09	23.49	0.223	33.01	-9.52
		2567.5	1.40	1 / 1	21.95	23.35	0.216	33.01	-9.66
	16-QAM	2567.5	1.40	1 / 12	21.16	22.56	0.180	33.01	-10.45
	64-QAM	2535.0	1.40	1 / 12	20.14	21.54	0.143	33.01	-11.47
256-QAM	2535.0	1.40	1 / 1	17.32	18.72	0.074	33.01	-14.29	
10 MHz	π/2 BPSK	2505.0	1.40	1 / 1	22.19	23.59	0.229	33.01	-9.42
		2535.0	1.40	1 / 1	22.20	23.60	0.229	33.01	-9.41
		2565.0	1.40	1 / 1	22.11	23.51	0.224	33.01	-9.50
	QPSK	2505.0	1.40	1 / 50	22.06	23.46	0.222	33.01	-9.55
		2535.0	1.40	1 / 25	22.20	23.60	0.229	33.01	-9.41
		2565.0	1.40	1 / 25	22.10	23.50	0.224	33.01	-9.51
	16-QAM	2535.0	1.40	1 / 25	21.06	22.46	0.176	33.01	-10.55
	64-QAM	2535.0	1.40	1 / 1	20.24	21.64	0.146	33.01	-11.37
	256-QAM	2535.0	1.40	1 / 50	17.29	18.69	0.074	33.01	-14.32
	15 MHz	π/2 BPSK	2507.5	1.40	1 / 37	21.81	23.21	0.209	33.01
2535.0			1.40	1 / 37	22.20	23.60	0.229	33.01	-9.41
2562.5			1.40	1 / 37	22.18	23.58	0.228	33.01	-9.43
QPSK		2507.5	1.40	1 / 77	21.98	23.38	0.218	33.01	-9.63
		2535.0	1.40	1 / 37	21.97	23.37	0.217	33.01	-9.64
		2562.5	1.40	1 / 1	22.13	23.53	0.225	33.01	-9.48
16-QAM		2535.0	1.40	1 / 37	21.20	22.60	0.182	33.01	-10.41
64-QAM		2507.5	1.40	1 / 77	20.19	21.59	0.144	33.01	-11.42
256-QAM		2507.5	1.40	1 / 37	17.17	18.57	0.072	33.01	-14.44
20 MHz		π/2 BPSK	2510.0	1.40	1 / 104	22.20	23.60	0.229	33.01
	2535.0		1.40	1 / 1	22.16	23.56	0.227	33.01	-9.45
	2560.0		1.40	1 / 104	21.93	23.33	0.215	33.01	-9.68
	QPSK	2510.0	1.40	1 / 104	21.98	23.38	0.218	33.01	-9.63
		2535.0	1.40	1 / 1	22.07	23.47	0.222	33.01	-9.54
		2560.0	1.40	1 / 104	22.16	23.56	0.227	33.01	-9.45
	16-QAM	2510.0	1.40	1 / 1	21.12	22.52	0.179	33.01	-10.49
	64-QAM	2560.0	1.40	1 / 104	20.17	21.57	0.144	33.01	-11.44
256-QAM	2560.0	1.40	1 / 50	17.25	18.65	0.073	33.01	-14.36	
25 MHz	π/2 BPSK	2512.5	1.40	1 / 131	22.20	23.60	0.229	33.01	-9.41
		2535.0	1.40	1 / 66	21.93	23.33	0.215	33.01	-9.68
		2557.5	1.40	1 / 1	22.17	23.57	0.228	33.01	-9.44
	QPSK	2512.5	1.40	1 / 131	21.99	23.39	0.218	33.01	-9.62
		2535.0	1.40	1 / 131	22.02	23.42	0.220	33.01	-9.59
		2557.5	1.40	1 / 131	21.84	23.24	0.211	33.01	-9.77
	16-QAM	2512.5	1.40	1 / 131	21.20	22.60	0.182	33.01	-10.41
	64-QAM	2535.0	1.40	1 / 131	20.16	21.56	0.143	33.01	-11.45
256-QAM	2512.5	1.40	1 / 1	17.30	18.70	0.074	33.01	-14.31	
30 MHz	π/2 BPSK	2515.0	1.40	1 / 1	22.20	23.60	0.229	33.01	-9.41
		2535.0	1.40	1 / 158	22.04	23.44	0.221	33.01	-9.57
		2555.0	1.40	1 / 1	22.07	23.47	0.222	33.01	-9.54
	QPSK	2515.0	1.40	1 / 1	22.16	23.56	0.227	33.01	-9.45
		2535.0	1.40	1 / 80	22.06	23.46	0.222	33.01	-9.55
		2555.0	1.40	1 / 80	22.02	23.42	0.220	33.01	-9.59
	16-QAM	2535.0	1.40	1 / 1	21.26	22.66	0.185	33.01	-10.35
	64-QAM	2535.0	1.40	1 / 1	20.24	21.64	0.146	33.01	-11.37
256-QAM	2515.0	1.40	1 / 1	17.33	18.73	0.075	33.01	-14.28	
35 MHz	π/2 BPSK	2517.5	1.40	1 / 186	22.07	23.47	0.222	33.01	-9.54
		2535.0	1.40	1 / 1	22.20	23.60	0.229	33.01	-9.41
		2552.5	1.40	1 / 1	22.13	23.53	0.225	33.01	-9.48
	QPSK	2517.5	1.40	1 / 1	22.16	23.56	0.227	33.01	-9.45
		2535.0	1.40	1 / 186	22.20	23.60	0.229	33.01	-9.41
		2552.5	1.40	1 / 186	22.20	23.60	0.229	33.01	-9.41
	16-QAM	2535.0	1.40	1 / 186	21.22	22.62	0.183	33.01	-10.39
	64-QAM	2552.5	1.40	1 / 93	20.20	21.60	0.145	33.01	-11.41
256-QAM	2517.5	1.40	1 / 93	17.29	18.69	0.074	33.01	-14.32	
40 MHz	π/2 BPSK	2520.0	1.40	1 / 108	22.20	23.60	0.229	33.01	-9.41
		2535.0	1.40	1 / 108	22.14	23.54	0.226	33.01	-9.47
		2550.0	1.40	1 / 108	22.15	23.55	0.226	33.01	-9.46
	QPSK	2520.0	1.40	1 / 214	22.10	23.50	0.224	33.01	-9.51
		2535.0	1.40	1 / 1	22.19	23.59	0.229	33.01	-9.42
		2550.0	1.40	1 / 214	22.09	23.49	0.223	33.01	-9.52
	16-QAM	2535.0	1.40	1 / 214	21.12	22.52	0.179	33.01	-10.49
	64-QAM	2550.0	1.40	1 / 1	20.22	21.62	0.145	33.01	-11.39
256-QAM	2535.0	1.40	1 / 108	17.31	18.71	0.074	33.01	-14.30	

Table 7-19. Antenna 1 EIRP Data (NR Band n7)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA – Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	22.02	1.40	23.42	0.220	33.01	-9.59
				21100	2535.0	1	99		21298	2554.8	1	0	22.11	1.40	23.51	0.224	33.01	-9.50
				21350	2560.0	1	0		21152	2540.2	1	99	21.76	1.40	23.16	0.207	33.01	-9.85
			QPSK	21100	2535	100	0	QPSK	21298	2554.8	100	0	20.30	1.40	21.70	0.148	33.01	-11.31
			16-QAM	21100	2535	100	0	16-QAM	21298	2554.8	100	0	19.21	1.40	20.61	0.115	33.01	-12.40
			64-QAM	21100	2535	100	0	64-QAM	21298	2554.8	100	0	18.89	1.40	20.29	0.107	33.01	-12.72
			256-QAM	21100	2535	100	0	256-QAM	21298	2554.8	100	0	15.95	1.40	17.35	0.054	33.01	-15.66

Table 7-22. Antenna 1 EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	28.50	1.60	30.10	1.023	33.01	-2.91
				39790	2510.0	1	99		39988	2529.8	1	0	28.21	1.60	29.81	0.957	33.01	-3.20
				40620	2593.0	1	99		40818	2612.8	1	0	28.70	1.60	30.30	1.072	33.01	-2.71
				41490	2680.0	1	0		41292	2660.2	1	99	28.55	1.60	30.15	1.035	33.01	-2.86
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	27.11	1.60	28.71	0.743	33.01	-4.30
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	26.21	1.60	27.81	0.604	33.01	-5.20
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	25.48	1.60	27.08	0.511	33.01	-5.93
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	22.12	1.60	23.72	0.236	33.01	-9.29

Table 7-23. Antenna 1 EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.31	1.60	26.91	0.491	33.01	-6.10
				39790	2510.0	1	99		39988	2529.8	1	0	25.28	1.60	26.88	0.488	33.01	-6.13
				40620	2593.0	1	99		40818	2612.8	1	0	25.57	1.60	27.17	0.521	33.01	-5.84
				41490	2680.0	1	0		41292	2660.2	1	99	25.42	1.60	27.02	0.504	33.01	-5.99
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	24.54	1.60	26.14	0.411	33.01	-6.87
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	22.92	1.60	24.52	0.283	33.01	-8.49
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	22.29	1.60	23.89	0.245	33.01	-9.12
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	19.72	1.60	21.32	0.136	33.01	-11.69

Table 7-24. Antenna 1 EIRP Data (ULCA LTE Band 41 (PC3))


FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.3 Antenna 3 - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	0.70	1 / 24	22.75	23.45	0.221	23.98	-0.53
		2310.0	0.70	1 / 0	22.65	23.35	0.216	23.98	-0.63
		2312.5	0.70	1 / 24	22.65	23.35	0.216	23.98	-0.63
	16-QAM	2307.5	0.70	1 / 24	21.72	22.42	0.175	23.98	-1.56
	64-QAM	2310.0	0.70	1 / 0	20.80	21.50	0.141	23.98	-2.48
	256-QAM	2312.5	0.70	1 / 24	17.86	18.56	0.072	23.98	-5.42
10 MHz	QPSK	2310.0	0.70	1 / 25	22.67	23.37	0.217	23.98	-0.61
	16-QAM	2310.0	0.70	1 / 0	21.80	22.50	0.178	23.98	-1.48
	64-QAM	2310.0	0.70	1 / 49	20.73	21.43	0.139	23.98	-2.55
	256-QAM	2310.0	0.70	1 / 49	17.87	18.57	0.072	23.98	-5.41


Table 7-25. Antenna 3 EIRP Data (LTE Band 30)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	1.60	1 / 12	25.20	26.80	0.479	33.01	-6.21
		2535.0	1.60	1 / 0	25.09	26.69	0.467	33.01	-6.32
		2567.5	1.60	1 / 0	25.02	26.62	0.459	33.01	-6.39
	16-QAM	2535.0	1.60	1 / 12	24.16	25.76	0.377	33.01	-7.25
	64-QAM	2502.5	1.60	1 / 12	23.17	24.77	0.300	33.01	-8.24
256-QAM	2535.0	1.60	1 / 0	20.22	21.82	0.152	33.01	-11.19	
10 MHz	QPSK	2505.0	1.60	1 / 0	24.92	26.52	0.449	33.01	-6.49
		2535.0	1.60	1 / 25	25.20	26.80	0.479	33.01	-6.21
		2565.0	1.60	1 / 49	25.06	26.66	0.463	33.01	-6.35
	16-QAM	2535.0	1.60	1 / 25	24.11	25.71	0.372	33.01	-7.30
	64-QAM	2535.0	1.60	1 / 25	23.19	24.79	0.301	33.01	-8.22
256-QAM	2565.0	1.60	1 / 49	20.25	21.85	0.153	33.01	-11.16	
15 MHz	QPSK	2507.5	1.60	1 / 0	25.05	26.65	0.462	33.01	-6.36
		2535.0	1.60	1 / 37	25.16	26.76	0.474	33.01	-6.25
		2562.5	1.60	1 / 37	25.05	26.65	0.462	33.01	-6.36
	16-QAM	2562.5	1.60	1 / 37	24.20	25.80	0.380	33.01	-7.21
	64-QAM	2562.5	1.60	1 / 0	23.17	24.77	0.300	33.01	-8.24
256-QAM	2562.5	1.60	1 / 0	20.29	21.89	0.155	33.01	-11.12	
20 MHz	QPSK	2510.0	1.60	1 / 99	25.10	26.70	0.468	33.01	-6.31
		2535.0	1.60	1 / 99	24.94	26.54	0.451	33.01	-6.47
		2560.0	1.60	1 / 99	25.20	26.80	0.479	33.01	-6.21
	16-QAM	2560.0	1.60	1 / 50	24.18	25.78	0.378	33.01	-7.23
	64-QAM	2510.0	1.60	1 / 50	23.20	24.80	0.302	33.01	-8.21
256-QAM	2560.0	1.60	1 / 99	20.29	21.89	0.155	33.01	-11.12	


Table 7-26. Antenna 3 EIRP Data (LTE Band 7)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 502 of 569

LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	0.80	1 / 24	27.20	28.00	0.631	33.01	-5.01
		2593.0	0.80	1 / 0	27.17	27.97	0.627	33.01	-5.04
		2687.5	0.80	1 / 0	27.08	27.88	0.614	33.01	-5.13
	16-QAM	2498.5	0.80	1 / 0	26.28	27.08	0.511	33.01	-5.93
	64-QAM	2687.5	0.80	1 / 12	25.20	26.00	0.398	33.01	-7.01
	256-QAM	2687.5	0.80	1 / 12	22.28	23.08	0.203	33.01	-9.93
10 MHz	QPSK	2501.0	0.80	1 / 25	27.20	28.00	0.631	33.01	-5.01
		2593.0	0.80	1 / 0	27.20	28.00	0.631	33.01	-5.01
		2685.0	0.80	1 / 49	27.15	27.95	0.624	33.01	-5.06
	16-QAM	2593.0	0.80	1 / 25	26.22	27.02	0.504	33.01	-5.99
	64-QAM	2685.0	0.80	1 / 49	25.12	25.92	0.391	33.01	-7.09
	256-QAM	2593.0	0.80	1 / 25	22.34	23.14	0.206	33.01	-9.87
15 MHz	QPSK	2503.5	0.80	1 / 37	27.14	27.94	0.622	33.01	-5.07
		2593.0	0.80	1 / 37	27.20	28.00	0.631	33.01	-5.01
		2682.5	0.80	1 / 0	27.19	27.99	0.630	33.01	-5.02
	16-QAM	2593.0	0.80	1 / 74	26.22	27.02	0.504	33.01	-5.99
	64-QAM	2682.5	0.80	1 / 74	25.19	25.99	0.397	33.01	-7.02
	256-QAM	2682.5	0.80	1 / 74	22.30	23.10	0.204	33.01	-9.91
20 MHz	QPSK	2506.0	0.80	1 / 99	27.20	28.00	0.631	33.01	-5.01
		2593.0	0.80	1 / 50	27.17	27.97	0.627	33.01	-5.04
		2680.0	0.80	1 / 0	27.15	27.95	0.624	33.01	-5.06
	16-QAM	2593.0	0.80	1 / 99	26.15	26.95	0.495	33.01	-6.06
	64-QAM	2593.0	0.80	1 / 50	25.20	26.00	0.398	33.01	-7.01
	256-QAM	2506.0	0.80	1 / 0	22.32	23.12	0.205	33.01	-9.89


Table 7-27. Antenna 3 EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	0.80	1 / 12	25.67	26.47	0.444	33.01	-6.54
		2593.0	0.80	1 / 24	25.68	26.48	0.445	33.01	-6.53
		2687.5	0.80	1 / 24	25.58	25.38	0.345	33.01	-7.63
	16-QAM	2498.5	0.80	1 / 0	24.60	25.40	0.347	33.01	-7.61
	64-QAM	2498.5	0.80	1 / 24	23.66	24.46	0.279	33.01	-8.55
256-QAM	2498.5	0.80	1 / 12	20.72	21.52	0.142	33.01	-11.49	
10 MHz	QPSK	2501.0	0.80	1 / 0	25.70	26.50	0.447	33.01	-6.51
		2593.0	0.80	1 / 25	25.47	26.27	0.424	33.01	-6.74
		2685.0	0.80	1 / 0	25.58	25.38	0.345	33.01	-7.63
	16-QAM	2501.0	0.80	1 / 0	24.52	25.32	0.340	33.01	-7.69
	64-QAM	2501.0	0.80	1 / 0	23.60	24.40	0.275	33.01	-8.61
256-QAM	2501.0	0.80	1 / 49	20.73	21.53	0.142	33.01	-11.48	
15 MHz	QPSK	2503.5	0.80	1 / 37	25.52	26.32	0.429	33.01	-6.69
		2593.0	0.80	1 / 74	25.70	26.50	0.447	33.01	-6.51
		2682.5	0.80	1 / 74	25.63	25.53	0.357	33.01	-7.48
	16-QAM	2503.5	0.80	1 / 0	24.73	25.53	0.357	33.01	-7.48
	64-QAM	2503.5	0.80	1 / 74	23.44	24.24	0.265	33.01	-8.77
256-QAM	2503.5	0.80	1 / 74	20.73	21.53	0.142	33.01	-11.48	
20 MHz	QPSK	2506.0	0.80	1 / 99	25.70	26.50	0.447	33.01	-6.51
		2593.0	0.80	1 / 0	25.44	26.24	0.421	33.01	-6.77
		2680.0	0.80	1 / 50	25.47	25.47	0.352	33.01	-7.54
	16-QAM	2506.0	0.80	1 / 99	24.74	25.54	0.358	33.01	-7.47
	64-QAM	2506.0	0.80	1 / 99	23.42	24.22	0.264	33.01	-8.79
256-QAM	2506.0	0.80	1 / 99	20.67	21.47	0.140	33.01	-11.54	


Table 7-28. Antenna 3 EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 504 of 569

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	0.70	1 / 12	22.80	23.50	0.224	23.98	-0.48
		2310.0	0.70	1 / 12	22.62	23.32	0.215	23.98	-0.66
		2312.5	0.70	1 / 12	22.70	23.40	0.219	23.98	-0.58
	QPSK	2307.5	0.70	1 / 12	22.80	23.50	0.224	23.98	-0.48
		2310.0	0.70	1 / 12	22.70	23.40	0.219	23.98	-0.58
		2312.5	0.70	1 / 12	22.68	23.38	0.218	23.98	-0.60
	16-QAM	2310.0	0.70	1 / 12	21.85	22.55	0.180	23.98	-1.43
64-QAM	2312.5	0.70	1 / 12	20.83	21.53	0.142	23.98	-2.45	
256-QAM	2312.5	0.70	1 / 12	17.99	18.69	0.074	23.98	-5.29	
10 MHz	π/2 BPSK	2310.0	0.70	1 / 25	22.78	23.48	0.223	23.98	-0.50
	QPSK	2310.0	0.70	1 / 25	22.80	23.50	0.224	23.98	-0.48
	16-QAM	2310.0	0.70	1 / 25	21.83	22.53	0.179	23.98	-1.45
	64-QAM	2310.0	0.70	1 / 25	20.82	21.52	0.142	23.98	-2.46
	256-QAM	2310.0	0.70	1 / 25	17.99	18.69	0.074	23.98	-5.29

Table 7-29. Antenna 3 EIRP Data (NR Band n30)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 505 of 569

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dB]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	1.60	1 / 12	25.05	26.65	0.462	33.01	-6.36
		2535.0	1.60	1 / 1	25.18	26.78	0.476	33.01	-6.23
		2567.5	1.60	1 / 12	25.12	26.72	0.470	33.01	-6.29
	QPSK	2502.5	1.60	1 / 1	25.09	26.69	0.467	33.01	-6.32
		2535.0	1.60	1 / 1	25.20	26.80	0.479	33.01	-6.21
		2567.5	1.60	1 / 23	24.92	26.52	0.449	33.01	-6.49
	16-QAM	2535.0	1.60	1 / 23	24.03	25.63	0.366	33.01	-7.38
	64-QAM	2535.0	1.60	1 / 1	23.16	24.76	0.299	33.01	-8.25
	256-QAM	2567.5	1.60	1 / 12	20.29	21.89	0.155	33.01	-11.12
10 MHz	π/2 BPSK	2505.0	1.60	1 / 25	25.18	26.78	0.476	33.01	-6.23
		2535.0	1.60	1 / 25	25.14	26.74	0.472	33.01	-6.27
		2565.0	1.60	1 / 25	25.20	26.80	0.479	33.01	-6.21
	QPSK	2505.0	1.60	1 / 1	25.16	26.76	0.474	33.01	-6.25
		2535.0	1.60	1 / 50	25.19	26.79	0.478	33.01	-6.22
		2565.0	1.60	1 / 25	25.04	26.64	0.461	33.01	-6.37
	16-QAM	2565.0	1.60	1 / 1	24.22	25.82	0.382	33.01	-7.19
	64-QAM	2565.0	1.60	1 / 50	23.21	24.81	0.303	33.01	-8.20
	256-QAM	2535.0	1.60	1 / 1	20.31	21.91	0.155	33.01	-11.10
15 MHz	π/2 BPSK	2507.5	1.60	1 / 37	25.14	26.74	0.472	33.01	-6.27
		2535.0	1.60	1 / 37	25.18	26.78	0.476	33.01	-6.23
		2562.5	1.60	1 / 37	25.04	26.64	0.461	33.01	-6.37
	QPSK	2507.5	1.60	1 / 1	25.05	26.65	0.462	33.01	-6.36
		2535.0	1.60	1 / 77	25.03	26.63	0.460	33.01	-6.38
		2562.5	1.60	1 / 77	25.20	26.80	0.479	33.01	-6.21
	16-QAM	2535.0	1.60	1 / 37	24.14	25.74	0.375	33.01	-7.27
	64-QAM	2507.5	1.60	1 / 37	23.16	24.76	0.299	33.01	-8.25
	256-QAM	2535.0	1.60	1 / 77	20.23	21.83	0.152	33.01	-11.18
20 MHz	π/2 BPSK	2510.0	1.60	1 / 50	25.15	26.75	0.473	33.01	-6.26
		2535.0	1.60	1 / 50	25.12	26.72	0.470	33.01	-6.29
		2560.0	1.60	1 / 1	25.07	26.67	0.465	33.01	-6.34
	QPSK	2510.0	1.60	1 / 50	25.05	26.65	0.462	33.01	-6.36
		2535.0	1.60	1 / 50	25.20	26.80	0.479	33.01	-6.21
		2560.0	1.60	1 / 50	25.19	26.79	0.478	33.01	-6.22
	16-QAM	2510.0	1.60	1 / 1	24.15	25.75	0.376	33.01	-7.26
	64-QAM	2560.0	1.60	1 / 50	23.20	24.80	0.302	33.01	-8.21
	256-QAM	2510.0	1.60	1 / 1	20.30	21.90	0.155	33.01	-11.11
25 MHz	π/2 BPSK	2512.5	1.60	1 / 131	25.12	26.72	0.470	33.01	-6.29
		2535.0	1.60	1 / 1	25.20	26.80	0.479	33.01	-6.21
		2557.5	1.60	1 / 131	25.04	26.64	0.461	33.01	-6.37
	QPSK	2512.5	1.60	1 / 1	24.97	26.57	0.454	33.01	-6.44
		2535.0	1.60	1 / 66	25.03	26.63	0.460	33.01	-6.38
		2557.5	1.60	1 / 131	25.20	26.80	0.479	33.01	-6.21
	16-QAM	2557.5	1.60	1 / 66	24.21	25.81	0.381	33.01	-7.20
	64-QAM	2512.5	1.60	1 / 66	23.26	24.86	0.306	33.01	-8.15
	256-QAM	2512.5	1.60	1 / 66	20.39	21.99	0.158	33.01	-11.02
30 MHz	π/2 BPSK	2515.0	1.60	1 / 1	25.11	26.71	0.469	33.01	-6.30
		2535.0	1.60	1 / 1	25.16	26.76	0.474	33.01	-6.25
		2555.0	1.60	1 / 80	25.01	26.61	0.458	33.01	-6.40
	QPSK	2515.0	1.60	1 / 158	25.20	26.80	0.479	33.01	-6.21
		2535.0	1.60	1 / 1	25.19	26.79	0.478	33.01	-6.22
		2555.0	1.60	1 / 1	25.01	26.61	0.458	33.01	-6.40
	16-QAM	2515.0	1.60	1 / 1	24.20	25.80	0.380	33.01	-7.21
	64-QAM	2555.0	1.60	1 / 158	23.16	24.76	0.299	33.01	-8.25
	256-QAM	2555.0	1.60	1 / 80	20.32	21.92	0.156	33.01	-11.09
35 MHz	π/2 BPSK	2517.5	1.60	1 / 1	25.07	26.67	0.465	33.01	-6.34
		2535.0	1.60	1 / 186	25.05	26.65	0.462	33.01	-6.36
		2552.5	1.60	1 / 93	25.11	26.71	0.469	33.01	-6.30
	QPSK	2517.5	1.60	1 / 186	25.05	26.65	0.462	33.01	-6.36
		2535.0	1.60	1 / 186	25.20	26.80	0.479	33.01	-6.21
		2552.5	1.60	1 / 93	25.20	26.80	0.479	33.01	-6.21
	16-QAM	2552.5	1.60	1 / 186	24.19	25.79	0.379	33.01	-7.22
	64-QAM	2535.0	1.60	1 / 186	23.15	24.75	0.299	33.01	-8.26
	256-QAM	2517.5	1.60	1 / 186	20.29	21.89	0.155	33.01	-11.12
40 MHz	π/2 BPSK	2520.0	1.60	1 / 108	25.18	26.78	0.476	33.01	-6.23
		2535.0	1.60	1 / 214	25.18	26.78	0.476	33.01	-6.23
		2550.0	1.60	1 / 108	25.20	26.80	0.479	33.01	-6.21
	QPSK	2520.0	1.60	1 / 1	25.15	26.75	0.473	33.01	-6.26
		2535.0	1.60	1 / 1	25.18	26.78	0.476	33.01	-6.23
		2550.0	1.60	1 / 108	25.03	26.63	0.460	33.01	-6.38
	16-QAM	2550.0	1.60	1 / 1	24.20	25.80	0.380	33.01	-7.21
	64-QAM	2550.0	1.60	1 / 108	23.19	24.79	0.301	33.01	-8.22
	256-QAM	2535.0	1.60	1 / 214	20.28	21.88	0.154	33.01	-11.13

Table 7-30. Antenna 3 EIRP Data (NR Band n7)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA – Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	24.85	1.60	26.45	0.442	33.01	-6.56
				21100	2535.0	1	99		21298	2554.8	1	0	25.02	1.60	26.62	0.459	33.01	-6.39
				21350	2560.0	1	0		21152	2540.2	1	99	25.20	1.60	26.80	0.479	33.01	-6.21
				21350	2560	100	0		21152	2540.2	100	0	23.41	1.60	25.01	0.317	33.01	-8.00
			16-QAM	21350	2560	100	0	16-QAM	21152	2540.2	100	0	22.57	1.60	24.17	0.261	33.01	-8.94
			64-QAM	21350	2560	100	0	64-QAM	21152	2540.2	100	0	21.82	1.60	23.42	0.220	33.01	-9.59
			256-QAM	21350	2560	100	0	256-QAM	21152	2540.2	100	0	18.58	1.60	20.18	0.104	33.01	-12.83

Table 7-33. Antenna 3 EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	27.13	0.80	27.93	0.621	33.01	-5.08
				39790	2510.0	1	99		39988	2529.8	1	0	26.89	0.80	27.69	0.587	33.01	-5.32
				40620	2593.0	1	99		40818	2612.8	1	0	27.04	0.80	27.84	0.608	33.01	-5.17
				41490	2680.0	1	0		41292	2660.2	1	99	27.01	0.80	27.81	0.604	33.01	-5.20
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	25.48	0.80	26.28	0.425	33.01	-6.73
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	24.52	0.80	25.32	0.340	33.01	-7.69
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	24.08	0.80	24.88	0.308	33.01	-8.13
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	21.01	0.80	21.81	0.152	33.01	-11.20

Table 7-34. Antenna 3 EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.32	0.80	26.12	0.409	33.01	-6.89
				39790	2510.0	1	99		39988	2529.8	1	0	25.70	0.80	26.50	0.447	33.01	-6.51
				40620	2593.0	1	99		40818	2612.8	1	0	25.63	0.80	26.43	0.440	33.01	-6.58
				41490	2680.0	1	0		41292	2660.2	1	99	25.64	0.80	26.44	0.441	33.01	-6.57
			QPSK	39790	2510	100	0	QPSK	39988	2529.8	100	0	24.04	0.80	24.84	0.305	33.01	-8.17
			16-QAM	39790	2510	100	0	16-QAM	39988	2529.8	100	0	22.86	0.80	23.66	0.232	33.01	-9.35
			64-QAM	39790	2510	100	0	64-QAM	39988	2529.8	100	0	22.48	0.80	23.28	0.213	33.01	-9.73
			256-QAM	39790	2510	100	0	256-QAM	39988	2529.8	100	0	19.32	0.80	20.12	0.103	33.01	-12.89

Table 7-35. Antenna 3 EIRP Data (ULCA LTE Band 41 (PC3))


FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.4 Antenna 2b - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	0.10	1 / 24	21.90	22.00	0.158	23.98	-1.98
		2310.0	0.10	1 / 0	22.12	22.22	0.167	23.98	-1.76
		2312.5	0.10	1 / 12	22.20	22.30	0.170	23.98	-1.68
	16-QAM	2310.0	0.10	1 / 12	21.17	21.27	0.134	23.98	-2.71
	64-QAM	2307.5	0.10	1 / 24	20.13	20.23	0.105	23.98	-3.75
	256-QAM	2307.5	0.10	1 / 12	17.32	17.42	0.055	23.98	-6.56
10 MHz	QPSK	2310.0	0.10	1 / 0	22.20	22.30	0.170	23.98	-1.68
	16-QAM	2310.0	0.10	1 / 49	20.95	21.05	0.127	23.98	-2.93
	64-QAM	2310.0	0.10	1 / 0	20.08	20.18	0.104	23.98	-3.80
	256-QAM	2310.0	0.10	1 / 49	17.29	17.39	0.055	23.98	-6.59

Table 7-36. Antenna 2b EIRP Data (LTE Band 30)


FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-1.50	1 / 12	22.05	20.55	0.114	33.01	-12.46
		2535.0	-1.50	1 / 0	22.07	20.57	0.114	33.01	-12.44
		2567.5	-1.50	1 / 0	22.14	20.64	0.116	33.01	-12.37
	16-QAM	2535.0	-1.50	1 / 0	21.13	19.63	0.092	33.01	-13.38
	64-QAM	2567.5	-1.50	1 / 24	20.21	18.71	0.074	33.01	-14.30
256-QAM	2567.5	-1.50	1 / 0	17.29	15.79	0.038	33.01	-17.22	
10 MHz	QPSK	2505.0	-1.50	1 / 49	21.94	20.44	0.111	33.01	-12.57
		2535.0	-1.50	1 / 49	22.18	20.68	0.117	33.01	-12.33
		2565.0	-1.50	1 / 25	22.11	20.61	0.115	33.01	-12.40
	16-QAM	2505.0	-1.50	1 / 49	21.28	19.78	0.095	33.01	-13.23
	64-QAM	2505.0	-1.50	1 / 49	20.30	18.80	0.076	33.01	-14.21
256-QAM	2565.0	-1.50	1 / 49	17.37	15.87	0.039	33.01	-17.14	
15 MHz	QPSK	2507.5	-1.50	1 / 74	22.18	20.68	0.117	33.01	-12.33
		2535.0	-1.50	1 / 74	22.05	20.55	0.114	33.01	-12.46
		2562.5	-1.50	1 / 74	22.10	20.60	0.115	33.01	-12.41
	16-QAM	2535.0	-1.50	1 / 74	21.09	19.59	0.091	33.01	-13.42
	64-QAM	2535.0	-1.50	1 / 0	20.23	18.73	0.075	33.01	-14.28
256-QAM	2562.5	-1.50	1 / 0	17.36	15.86	0.039	33.01	-17.15	
20 MHz	QPSK	2510.0	-1.50	1 / 50	22.20	20.70	0.117	33.01	-12.31
		2535.0	-1.50	1 / 0	22.10	20.60	0.115	33.01	-12.41
		2560.0	-1.50	1 / 99	22.20	20.70	0.117	33.01	-12.31
	16-QAM	2535.0	-1.50	1 / 50	21.16	19.66	0.092	33.01	-13.35
	64-QAM	2560.0	-1.50	1 / 50	20.18	18.68	0.074	33.01	-14.33
256-QAM	2560.0	-1.50	1 / 50	17.24	15.74	0.037	33.01	-17.27	


Table 7-37. Antenna 2b EIRP Data (LTE Band 7)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-2.00	1 / 24	28.17	26.17	0.414	33.01	-6.84
		2593.0	-2.00	1 / 12	28.12	26.12	0.409	33.01	-6.89
		2687.5	-2.00	1 / 0	28.08	26.08	0.406	33.01	-6.93
	16-QAM	2687.5	-2.00	1 / 24	27.20	25.20	0.331	33.01	-7.81
	64-QAM	2498.5	-2.00	1 / 24	26.19	24.19	0.262	33.01	-8.82
	256-QAM	2498.5	-2.00	1 / 12	23.20	21.20	0.132	33.01	-11.81
10 MHz	QPSK	2501.0	-2.00	1 / 0	28.17	26.17	0.414	33.01	-6.84
		2593.0	-2.00	1 / 25	28.04	26.04	0.402	33.01	-6.97
		2685.0	-2.00	1 / 49	28.10	26.10	0.407	33.01	-6.91
	16-QAM	2685.0	-2.00	1 / 25	27.21	25.21	0.332	33.01	-7.80
	64-QAM	2593.0	-2.00	1 / 25	26.16	24.16	0.261	33.01	-8.85
	256-QAM	2501.0	-2.00	1 / 0	23.37	21.37	0.137	33.01	-11.64
15 MHz	QPSK	2503.5	-2.00	1 / 74	28.20	26.20	0.417	33.01	-6.81
		2593.0	-2.00	1 / 0	28.17	26.17	0.414	33.01	-6.84
		2682.5	-2.00	1 / 0	28.06	26.06	0.404	33.01	-6.95
	16-QAM	2682.5	-2.00	1 / 0	27.19	25.19	0.330	33.01	-7.82
	64-QAM	2593.0	-2.00	1 / 37	26.15	24.15	0.260	33.01	-8.86
	256-QAM	2503.5	-2.00	1 / 74	23.21	21.21	0.132	33.01	-11.80
20 MHz	QPSK	2506.0	-2.00	1 / 0	27.98	25.98	0.396	33.01	-7.03
		2593.0	-2.00	1 / 50	28.00	26.00	0.398	33.01	-7.01
		2680.0	-2.00	1 / 99	27.97	25.97	0.395	33.01	-7.04
	16-QAM	2593.0	-2.00	1 / 0	27.16	25.16	0.328	33.01	-7.85
	64-QAM	2680.0	-2.00	1 / 0	26.18	24.18	0.262	33.01	-8.83
	256-QAM	2680.0	-2.00	1 / 99	23.27	21.27	0.134	33.01	-11.74


Table 7-38. Antenna 2b EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-2.00	1 / 24	25.66	23.66	0.232	33.01	-9.35
		2593.0	-2.00	1 / 0	25.62	23.62	0.230	33.01	-9.39
		2687.5	-2.00	1 / 0	25.65	22.65	0.184	33.01	-10.36
	16-QAM	2498.5	-2.00	1 / 24	24.79	22.79	0.190	33.01	-10.22
	64-QAM	2498.5	-2.00	1 / 12	23.66	21.66	0.147	33.01	-11.35
256-QAM	2498.5	-2.00	1 / 0	20.53	18.53	0.071	33.01	-14.48	
10 MHz	QPSK	2501.0	-2.00	1 / 25	25.50	23.50	0.224	33.01	-9.51
		2593.0	-2.00	1 / 25	25.47	23.47	0.222	33.01	-9.54
		2685.0	-2.00	1 / 25	25.39	22.67	0.185	33.01	-10.34
	16-QAM	2501.0	-2.00	1 / 49	24.48	22.48	0.177	33.01	-10.53
	64-QAM	2501.0	-2.00	1 / 25	23.70	21.70	0.148	33.01	-11.31
256-QAM	2501.0	-2.00	1 / 0	20.80	18.80	0.076	33.01	-14.21	
15 MHz	QPSK	2503.5	-2.00	1 / 0	25.67	23.67	0.233	33.01	-9.34
		2593.0	-2.00	1 / 37	25.54	23.54	0.226	33.01	-9.47
		2682.5	-2.00	1 / 0	25.35	22.75	0.188	33.01	-10.26
	16-QAM	2503.5	-2.00	1 / 74	24.47	22.47	0.177	33.01	-10.54
	64-QAM	2503.5	-2.00	1 / 37	23.32	21.32	0.136	33.01	-11.69
256-QAM	2503.5	-2.00	1 / 0	20.80	18.80	0.076	33.01	-14.21	
20 MHz	QPSK	2506.0	-2.00	1 / 50	25.70	23.70	0.234	33.01	-9.31
		2593.0	-2.00	1 / 0	25.69	23.69	0.234	33.01	-9.32
		2680.0	-2.00	1 / 50	25.42	22.67	0.185	33.01	-10.34
	16-QAM	2506.0	-2.00	1 / 0	24.67	22.67	0.185	33.01	-10.34
	64-QAM	2506.0	-2.00	1 / 0	23.62	21.62	0.145	33.01	-11.39
256-QAM	2506.0	-2.00	1 / 99	20.50	18.50	0.071	33.01	-14.51	


Table 7-39. Antenna 2b EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 513 of 569

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	0.10	1 / 12	22.20	22.30	0.170	23.98	-1.68
		2310.0	0.10	1 / 12	22.02	22.12	0.163	23.98	-1.86
		2312.5	0.10	1 / 12	22.18	22.28	0.169	23.98	-1.70
	QPSK	2307.5	0.10	1 / 12	22.19	22.29	0.169	23.98	-1.69
		2310.0	0.10	1 / 12	21.90	22.00	0.158	23.98	-1.98
		2312.5	0.10	1 / 12	22.05	22.15	0.164	23.98	-1.83
	16-QAM	2312.5	0.10	1 / 12	21.20	21.30	0.135	23.98	-2.68
64-QAM	2312.5	0.10	1 / 12	20.19	20.29	0.107	23.98	-3.69	
256-QAM	2312.5	0.10	1 / 12	17.30	17.40	0.055	23.98	-6.58	
10 MHz	π/2 BPSK	2310.0	0.10	1 / 25	21.98	22.08	0.161	23.98	-1.90
	QPSK	2310.0	0.10	1 / 25	22.11	22.21	0.166	23.98	-1.77
	16-QAM	2310.0	0.10	1 / 25	21.14	21.24	0.133	23.98	-2.74
	64-QAM	2310.0	0.10	1 / 25	20.14	20.24	0.106	23.98	-3.74
	256-QAM	2310.0	0.10	1 / 25	17.31	17.41	0.055	23.98	-6.57

Table 7-40. Antenna 2b EIRP Data (NR Band n30)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 514 of 569

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	-1.50	1 / 12	22.03	20.53	0.113	33.01	-12.48
		2535.0	-1.50	1 / 12	22.12	20.62	0.115	33.01	-12.39
		2567.5	-1.50	1 / 1	22.11	20.61	0.115	33.01	-12.40
	QPSK	2502.5	-1.50	1 / 1	22.20	20.70	0.117	33.01	-12.31
		2535.0	-1.50	1 / 1	22.18	20.68	0.117	33.01	-12.33
		2567.5	-1.50	1 / 12	22.08	20.58	0.114	33.01	-12.43
	16-QAM	2502.5	-1.50	1 / 23	21.15	19.65	0.092	33.01	-13.36
	64-QAM	2567.5	-1.50	1 / 23	20.19	18.69	0.074	33.01	-14.32
256-QAM	2502.5	-1.50	1 / 12	17.31	15.81	0.038	33.01	-17.20	
10 MHz	π/2 BPSK	2505.0	-1.50	1 / 1	22.20	20.70	0.117	33.01	-12.31
		2535.0	-1.50	1 / 1	22.15	20.65	0.116	33.01	-12.36
		2565.0	-1.50	1 / 1	22.11	20.61	0.115	33.01	-12.40
	QPSK	2505.0	-1.50	1 / 50	22.19	20.69	0.117	33.01	-12.32
		2535.0	-1.50	1 / 50	21.86	20.36	0.109	33.01	-12.65
		2565.0	-1.50	1 / 50	21.84	20.34	0.108	33.01	-12.67
	16-QAM	2505.0	-1.50	1 / 25	21.19	19.69	0.093	33.01	-13.32
	64-QAM	2565.0	-1.50	1 / 1	20.17	18.67	0.074	33.01	-14.34
256-QAM	2505.0	-1.50	1 / 50	17.25	15.75	0.038	33.01	-17.26	
15 MHz	π/2 BPSK	2507.5	-1.50	1 / 37	22.19	20.69	0.117	33.01	-12.32
		2535.0	-1.50	1 / 77	22.03	20.53	0.113	33.01	-12.48
		2562.5	-1.50	1 / 77	22.17	20.67	0.117	33.01	-12.34
	QPSK	2507.5	-1.50	1 / 37	22.20	20.70	0.117	33.01	-12.31
		2535.0	-1.50	1 / 1	22.17	20.67	0.117	33.01	-12.34
		2562.5	-1.50	1 / 37	22.01	20.51	0.112	33.01	-12.50
	16-QAM	2507.5	-1.50	1 / 37	21.16	19.66	0.092	33.01	-13.35
	64-QAM	2562.5	-1.50	1 / 37	20.18	18.68	0.074	33.01	-14.33
256-QAM	2535.0	-1.50	1 / 1	17.19	15.69	0.037	33.01	-17.32	
20 MHz	π/2 BPSK	2510.0	-1.50	1 / 104	22.20	20.70	0.117	33.01	-12.31
		2535.0	-1.50	1 / 1	22.20	20.70	0.117	33.01	-12.31
		2560.0	-1.50	1 / 1	22.12	20.62	0.115	33.01	-12.39
	QPSK	2510.0	-1.50	1 / 1	22.14	20.64	0.116	33.01	-12.37
		2535.0	-1.50	1 / 50	22.11	20.61	0.115	33.01	-12.40
		2560.0	-1.50	1 / 104	22.11	20.61	0.115	33.01	-12.40
	16-QAM	2535.0	-1.50	1 / 104	21.15	19.65	0.092	33.01	-13.36
	64-QAM	2510.0	-1.50	1 / 1	20.07	18.57	0.072	33.01	-14.44
256-QAM	2560.0	-1.50	1 / 1	17.25	15.75	0.038	33.01	-17.26	
25 MHz	π/2 BPSK	2512.5	-1.50	1 / 1	22.19	20.69	0.117	33.01	-12.32
		2535.0	-1.50	1 / 66	22.17	20.67	0.117	33.01	-12.34
		2557.5	-1.50	1 / 1	21.99	20.49	0.112	33.01	-12.52
	QPSK	2512.5	-1.50	1 / 1	22.05	20.55	0.114	33.01	-12.46
		2535.0	-1.50	1 / 131	22.20	20.70	0.117	33.01	-12.31
		2557.5	-1.50	1 / 1	22.00	20.50	0.112	33.01	-12.51
	16-QAM	2512.5	-1.50	1 / 1	21.19	19.69	0.093	33.01	-13.32
	64-QAM	2567.5	-1.50	1 / 131	20.18	18.68	0.074	33.01	-14.33
256-QAM	2535.0	-1.50	1 / 131	17.31	15.81	0.038	33.01	-17.20	
30 MHz	π/2 BPSK	2515.0	-1.50	1 / 1	22.18	20.68	0.117	33.01	-12.33
		2535.0	-1.50	1 / 80	22.20	20.70	0.117	33.01	-12.31
		2555.0	-1.50	1 / 158	22.09	20.59	0.115	33.01	-12.42
	QPSK	2515.0	-1.50	1 / 1	22.17	20.67	0.117	33.01	-12.34
		2535.0	-1.50	1 / 158	22.10	20.60	0.115	33.01	-12.41
		2555.0	-1.50	1 / 1	22.07	20.57	0.114	33.01	-12.44
	16-QAM	2535.0	-1.50	1 / 80	21.16	19.66	0.092	33.01	-13.35
	64-QAM	2555.0	-1.50	1 / 1	20.12	18.62	0.073	33.01	-14.39
256-QAM	2535.0	-1.50	1 / 1	17.30	15.80	0.038	33.01	-17.21	
35 MHz	π/2 BPSK	2517.5	-1.50	1 / 186	22.11	20.61	0.115	33.01	-12.40
		2535.0	-1.50	1 / 186	21.98	20.48	0.112	33.01	-12.53
		2552.5	-1.50	1 / 1	22.20	20.70	0.117	33.01	-12.31
	QPSK	2517.5	-1.50	1 / 186	22.19	20.69	0.117	33.01	-12.32
		2535.0	-1.50	1 / 186	22.18	20.68	0.117	33.01	-12.33
		2552.5	-1.50	1 / 93	21.87	20.37	0.109	33.01	-12.64
	16-QAM	2535	-1.50	1 / 186	21.11	19.61	0.091	33.01	-13.40
	64-QAM	2535	-1.50	1 / 93	20.15	18.65	0.073	33.01	-14.36
256-QAM	2517.5	-1.50	1 / 186	17.24	15.74	0.037	33.01	-17.27	
40 MHz	π/2 BPSK	2520.0	-1.50	1 / 108	21.91	20.41	0.110	33.01	-12.60
		2535.0	-1.50	1 / 214	22.20	20.70	0.117	33.01	-12.31
		2550.0	-1.50	1 / 214	22.09	20.59	0.115	33.01	-12.42
	QPSK	2520.0	-1.50	1 / 1	22.14	20.64	0.116	33.01	-12.37
		2535.0	-1.50	1 / 1	22.04	20.54	0.113	33.01	-12.47
		2550.0	-1.50	1 / 108	22.15	20.65	0.116	33.01	-12.36
	16-QAM	2535.0	-1.50	1 / 214	21.20	19.70	0.093	33.01	-13.31
	64-QAM	2550.0	-1.50	1 / 108	20.05	18.55	0.072	33.01	-14.46
256-QAM	2520.0	-1.50	1 / 108	17.29	15.79	0.038	33.01	-17.22	


Table 7-41. Antenna 2b EIRP Data (NR Band n7)

FCC ID: BCGA2837		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270068-10-R1.BCG	Test Dates: 10/1/2023 - 04/03/2024	EUT Type: Tablet Device	Page 515 of 569	

NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
10 MHz	1/2 BPSK	2501.0	-2.00	1 / 1	25.70	23.70	0.234	33.01	-9.31	
		2593.0	-2.00	1 / 22	25.66	23.66	0.232	33.01	-9.35	
		2685.0	-2.00	1 / 1	25.70	23.70	0.234	33.01	-9.31	
		2501.0	-2.00	1 / 1	25.64	23.64	0.231	33.01	-9.37	
		2593.0	-2.00	1 / 22	25.36	23.36	0.217	33.01	-9.65	
	QPSK	2685.0	-2.00	1 / 1	25.54	23.54	0.226	33.01	-9.47	
		16-QAM	2685.0	-2.00	1 / 12	24.63	22.63	0.183	33.01	-10.38
		64-QAM	2501.0	-2.00	1 / 1	23.68	21.68	0.147	33.01	-11.33
		256-QAM	2501.0	-2.00	1 / 22	20.78	18.78	0.076	33.01	-14.23
		15 MHz	1/2 BPSK	2503.5	-2.00	1 / 1	25.70	23.70	0.234	33.01
2593.0	-2.00	1 / 36		25.66	23.66	0.232	33.01	-9.35		
2682.5	-2.00	1 / 1		25.70	23.70	0.234	33.01	-9.31		
2503.5	-2.00	1 / 1		25.64	23.64	0.231	33.01	-9.37		
2593.0	-2.00	1 / 36		25.36	23.36	0.217	33.01	-9.65		
QPSK	2682.5	-2.00	1 / 1	25.54	23.54	0.226	33.01	-9.47		
	16-QAM	2682.5	-2.00	1 / 19	24.63	22.63	0.183	33.01	-10.38	
	64-QAM	2503.5	-2.00	1 / 1	23.68	21.68	0.147	33.01	-11.33	
	256-QAM	2503.5	-2.00	1 / 36	20.78	18.78	0.076	33.01	-14.23	
	20 MHz	1/2 BPSK	2506.0	-2.00	1 / 1	25.70	23.70	0.234	33.01	-9.31
2593.0	-2.00		1 / 49	25.66	23.66	0.232	33.01	-9.35		
2680.0	-2.00		1 / 1	25.70	23.70	0.234	33.01	-9.31		
2506.0	-2.00		1 / 1	25.64	23.64	0.231	33.01	-9.37		
2593.0	-2.00		1 / 49	25.36	23.36	0.217	33.01	-9.65		
QPSK	2680.0	-2.00	1 / 1	25.54	23.54	0.226	33.01	-9.47		
	16-QAM	2680.0	-2.00	1 / 25	24.63	22.63	0.183	33.01	-10.38	
	64-QAM	2506.0	-2.00	1 / 1	23.68	21.68	0.147	33.01	-11.33	
	256-QAM	2506.0	-2.00	1 / 49	20.78	18.78	0.076	33.01	-14.23	
	30 MHz	1/2 BPSK	2511.0	-2.00	1 / 1	25.70	23.70	0.234	33.01	-9.31
2593.0	-2.00		1 / 76	25.66	23.66	0.232	33.01	-9.35		
2675.0	-2.00		1 / 1	25.70	23.70	0.234	33.01	-9.31		
2511.0	-2.00		1 / 1	25.64	23.64	0.231	33.01	-9.37		
2593.0	-2.00		1 / 76	25.36	23.36	0.217	33.01	-9.65		
QPSK	2675.0	-2.00	1 / 1	25.54	23.54	0.226	33.01	-9.47		
	16-QAM	2675.0	-2.00	1 / 39	24.63	22.63	0.183	33.01	-10.38	
	64-QAM	2511.0	-2.00	1 / 1	23.68	21.68	0.147	33.01	-11.33	
	256-QAM	2511.0	-2.00	1 / 76	20.78	18.78	0.076	33.01	-14.23	
	40 MHz	1/2 BPSK	2516.0	-2.00	1 / 1	25.70	23.70	0.234	33.01	-9.31
2593.0	-2.00		1 / 104	25.66	23.66	0.232	33.01	-9.35		
2670.0	-2.00		1 / 1	25.70	23.70	0.234	33.01	-9.31		
2516.0	-2.00		1 / 1	25.64	23.64	0.231	33.01	-9.37		
2593.0	-2.00		1 / 104	25.36	23.36	0.217	33.01	-9.65		
QPSK	2670.0	-2.00	1 / 1	25.54	23.54	0.226	33.01	-9.47		
	16-QAM	2670.0	-2.00	1 / 53	24.63	22.63	0.183	33.01	-10.38	
	64-QAM	2516.0	-2.00	1 / 1	23.68	21.68	0.147	33.01	-11.33	
	256-QAM	2516.0	-2.00	1 / 104	20.78	18.78	0.076	33.01	-14.23	
	50 MHz	1/2 BPSK	2521.0	-2.00	1 / 1	25.70	23.70	0.234	33.01	-9.31
2593.0	-2.00		1 / 131	25.66	23.66	0.232	33.01	-9.35		
2665.0	-2.00		1 / 1	25.70	23.70	0.234	33.01	-9.31		
2521.0	-2.00		1 / 1	25.64	23.64	0.231	33.01	-9.37		
2593.0	-2.00		1 / 131	25.36	23.36	0.217	33.01	-9.65		
QPSK	2665.0	-2.00	1 / 1	25.54	23.54	0.226	33.01	-9.47		
	16-QAM	2665.0	-2.00	1 / 66	24.63	22.63	0.183	33.01	-10.38	
	64-QAM	2521.0	-2.00	1 / 1	23.68	21.68	0.147	33.01	-11.33	
	256-QAM	2521.0	-2.00	1 / 131	20.78	18.78	0.076	33.01	-14.23	
	60 MHz	1/2 BPSK	2526.0	-2.00	1 / 81	25.36	23.36	0.217	33.01	-9.65
2593.0	-2.00		1 / 81	25.70	23.70	0.234	33.01	-9.31		
2660.0	-2.00		1 / 81	25.58	23.58	0.228	33.01	-9.43		
2526.0	-2.00		1 / 81	25.24	23.24	0.211	33.01	-9.77		
2593.0	-2.00		1 / 160	25.63	23.63	0.231	33.01	-9.38		
QPSK	2660.0	-2.00	1 / 81	25.70	23.70	0.234	33.01	-9.31		
	16-QAM	2660.0	-2.00	1 / 81	24.73	22.73	0.187	33.01	-10.28	
	64-QAM	2593.0	-2.00	1 / 160	23.70	21.70	0.148	33.01	-11.31	
	256-QAM	2593.0	-2.00	1 / 160	20.73	18.73	0.075	33.01	-14.28	
	70 MHz	1/2 BPSK	2531.0	-2.00	1 / 1	25.62	23.62	0.230	33.01	-9.39
2593.0	-2.00		1 / 90	25.44	23.44	0.221	33.01	-9.57		
2655.0	-2.00		1 / 90	25.68	23.68	0.233	33.01	-9.33		
2531.0	-2.00		1 / 187	25.59	23.59	0.229	33.01	-9.42		
2593.0	-2.00		1 / 1	25.68	23.68	0.233	33.01	-9.33		
QPSK	2655.0	-2.00	1 / 90	25.70	23.70	0.234	33.01	-9.31		
	16-QAM	2655.0	-2.00	1 / 1	24.65	22.65	0.184	33.01	-10.36	
	64-QAM	2655.0	-2.00	1 / 1	23.62	21.62	0.145	33.01	-11.39	
	256-QAM	2531.0	-2.00	1 / 187	20.70	18.70	0.074	33.01	-14.31	
	80 MHz	1/2 BPSK	2536.0	-2.00	1 / 1	25.52	23.52	0.225	33.01	-9.49
2593.0	-2.00		1 / 215	25.66	23.66	0.232	33.01	-9.35		
2650.0	-2.00		1 / 215	25.70	23.70	0.234	33.01	-9.31		
2536.0	-2.00		1 / 215	25.38	23.38	0.218	33.01	-9.63		
2593.0	-2.00		1 / 215	25.64	23.64	0.231	33.01	-9.37		
QPSK	2650.0	-2.00	1 / 108	25.63	23.63	0.231	33.01	-9.38		
	16-QAM	2536.0	-2.00	1 / 1	24.62	22.62	0.183	33.01	-10.39	
	64-QAM	2593.0	-2.00	1 / 108	23.77	21.77	0.150	33.01	-11.24	
	256-QAM	2593.0	-2.00	1 / 215	20.85	18.85	0.077	33.01	-14.16	
	90 MHz	1/2 BPSK	2541.0	-2.00	1 / 1	25.70	23.70	0.234	33.01	-9.31
2593.0	-2.00		1 / 243	25.51	23.51	0.224	33.01	-9.50		
2645.0	-2.00		1 / 1	25.64	23.64	0.231	33.01	-9.37		
2541.0	-2.00		1 / 1	25.60	23.60	0.229	33.01	-9.41		
2593.0	-2.00		1 / 1	25.69	23.69	0.234	33.01	-9.32		
QPSK	2645.0	-2.00	1 / 122	25.69	23.69	0.234	33.01	-9.32		
	16-QAM	2593.0	-2.00	1 / 1	24.70	22.70	0.186	33.01	-10.31	
	64-QAM	2645.0	-2.00	1 / 1	23.70	21.70	0.148	33.01	-11.31	
	256-QAM	2645.0	-2.00	1 / 1	20.75	18.75	0.075	33.01	-14.26	
	100 MHz	1/2 BPSK	2546.0	-2.00	1 / 1	25.70	23.70	0.234	33.01	-9.31
2593.0	-2.00		1 / 271	25.66	23.66	0.232	33.01	-9.35		
2640.0	-2.00		1 / 1	25.70	23.70	0.234	33.01	-9.31		
2546.0	-2.00		1 / 1	25.64	23.64	0.231	33.01	-9.37		
2593.0	-2.00		1 / 271	25.36	23.36	0.217	33.01	-9.65		
QPSK	2640.0	-2.00	1 / 1	25.54	23.54	0.226	33.01	-9.47		
	16-QAM	2640.0	-2.00	1 / 135	24.63	22.63	0.183	33.01	-10.38	
	64-QAM	2546.0	-2.00	1 / 1	23.68	21.68	0.147	33.01	-11.33	
	256-QAM	2546.0	-2.00	1 / 271	20.78	18.78	0.076	33.01	-14.23	

Table 7-43. Antenna 2b EIRP Data (NR Band n41(PC3))

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ULCA – Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	21.81	-1.50	20.31	0.107	33.01	-12.70
				21100	2535.0	1	99		21298	2554.8	1	0	22.20	-1.50	20.70	0.117	33.01	-12.31
				21350	2560.0	1	0		21152	2540.2	1	99	21.91	-1.50	20.41	0.110	33.01	-12.60
			QPSK	21100	2535	100	0	QPSK	21298	2554.8	100	0	20.51	-1.50	19.01	0.080	33.01	-14.00
			16-QAM	21100	2535	100	0	16-QAM	21298	2554.8	100	0	19.73	-1.50	18.23	0.067	33.01	-14.78
			64-QAM	21100	2535	100	0	64-QAM	21298	2554.8	100	0	19.06	-1.50	17.56	0.057	33.01	-15.45
			256-QAM	21100	2535	100	0	256-QAM	21298	2554.8	100	0	16.11	-1.50	14.61	0.029	33.01	-18.40

Table 7-44. Antenna 2b EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	27.74	-2.00	25.74	0.375	33.01	-7.27
				39790	2510.0	1	99		39988	2529.8	1	0	27.72	-2.00	25.72	0.373	33.01	-7.29
				40620	2593.0	1	99		40818	2612.8	1	0	28.18	-2.00	26.18	0.415	33.01	-6.83
				41490	2690.0	1	0		41292	2660.2	1	99	27.84	-2.00	25.84	0.384	33.01	-7.17
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	26.73	-2.00	24.73	0.297	33.01	-8.28
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	25.64	-2.00	23.64	0.231	33.01	-9.37
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	24.66	-2.00	22.66	0.185	33.01	-10.35
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	21.80	-2.00	19.80	0.091	33.01	-13.41

Table 7-45. Antenna 2b EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.22	-2.00	23.22	0.210	33.01	-9.79
				39790	2510.0	1	99		39988	2529.8	1	0	25.67	-2.00	23.67	0.233	33.01	-9.34
				40620	2593.0	1	99		40818	2612.8	1	0	25.70	-2.00	23.70	0.234	33.01	-9.31
				41490	2690.0	1	0		41292	2660.2	1	99	25.52	-2.00	23.52	0.225	33.01	-9.49
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	24.48	-2.00	22.48	0.177	33.01	-10.53
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	22.70	-2.00	20.70	0.117	33.01	-12.31
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	22.43	-2.00	20.43	0.110	33.01	-12.58
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	19.56	-2.00	17.56	0.057	33.01	-15.45

Table 7-46. Antenna 2b EIRP Data (ULCA LTE Band 41 (PC3))

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7.7 Radiated Spurious Emissions

§2.1053, 27.53(a), 27.53(m)

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

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 = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

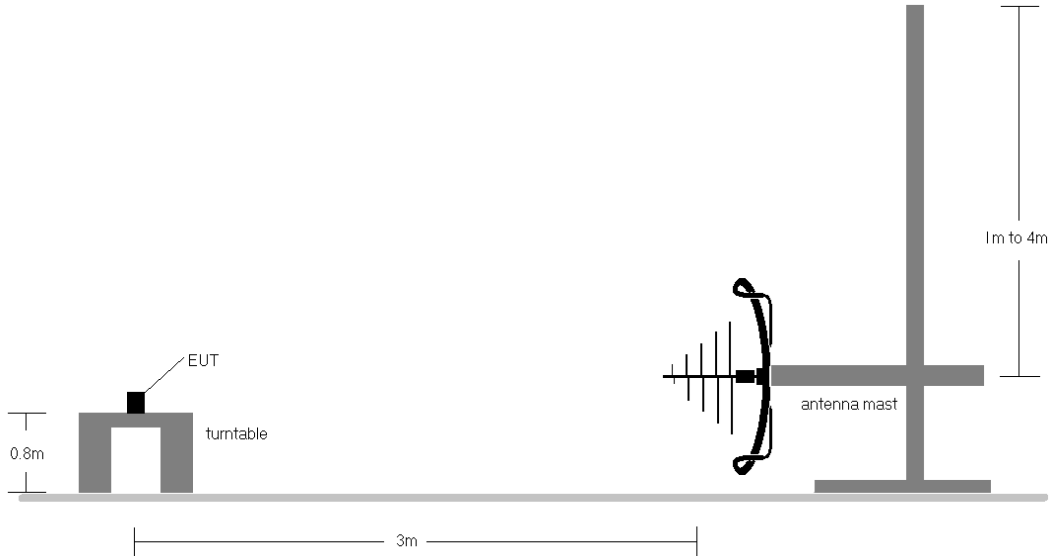


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

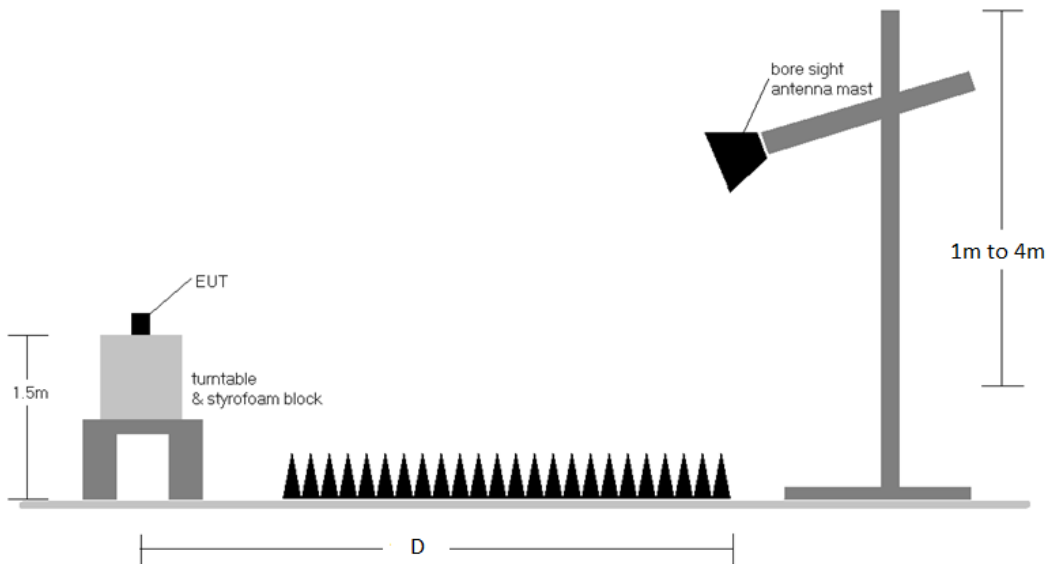




Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - 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 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.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. 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.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. 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.
8. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
9. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.
10. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.
11. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
12. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.
13. For LTE Band 30 pre-scans above 1GHz, 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 trace averaging.

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7.7.1 Antenna 4b Radiated Spurious Emission Measurements

LTE Band 30

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-78.50	4.38	32.89	-62.37	-40.00	-22.37
6937.5	V	-	-	-79.07	8.69	36.61	-58.64	-40.00	-18.64
9250.0	V	-	-	-81.12	9.61	35.49	-59.77	-40.00	-19.77

Table 7-47. Antenna 4b Radiated Spurious Data (LTE Band 30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-78.63	4.36	32.73	-62.53	-40.00	-22.53
6930.0	V	-	-	-79.37	8.84	36.47	-58.79	-40.00	-18.79
9240.0	V	-	-	-81.28	9.70	35.43	-59.83	-40.00	-19.83

Table 7-48. Antenna 4b Radiated Spurious Data (LTE Band 30 – Mid Channel)

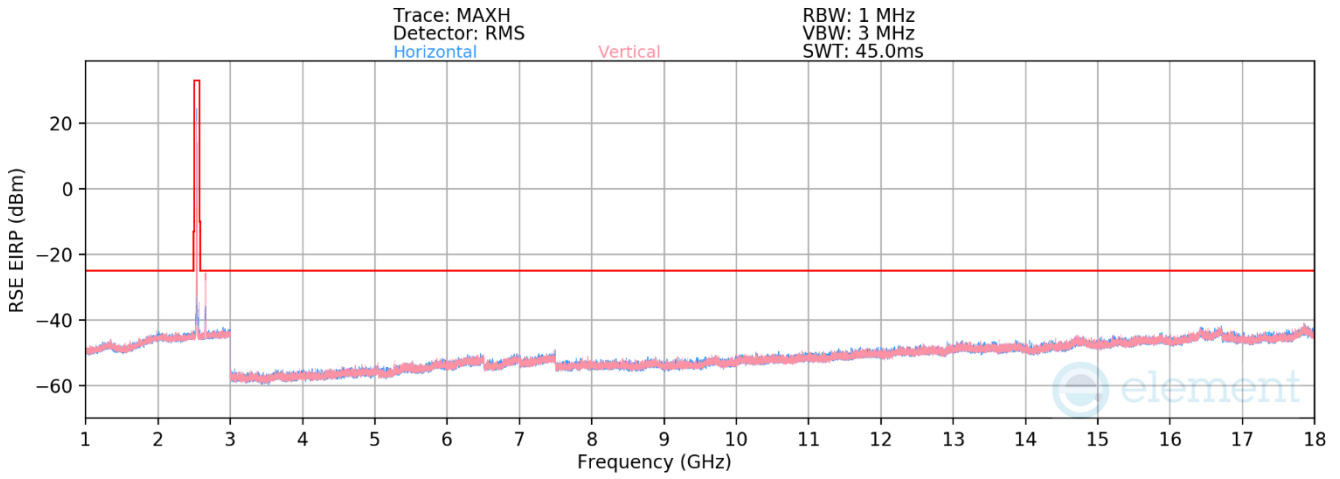
Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	V	-	-	-78.55	4.36	32.81	-62.45	-40.00	-22.45
6937.50	V	-	-	-79.14	8.84	36.70	-58.56	-40.00	-18.56
9250.00	V	-	-	-81.16	9.70	35.55	-59.71	-40.00	-19.71

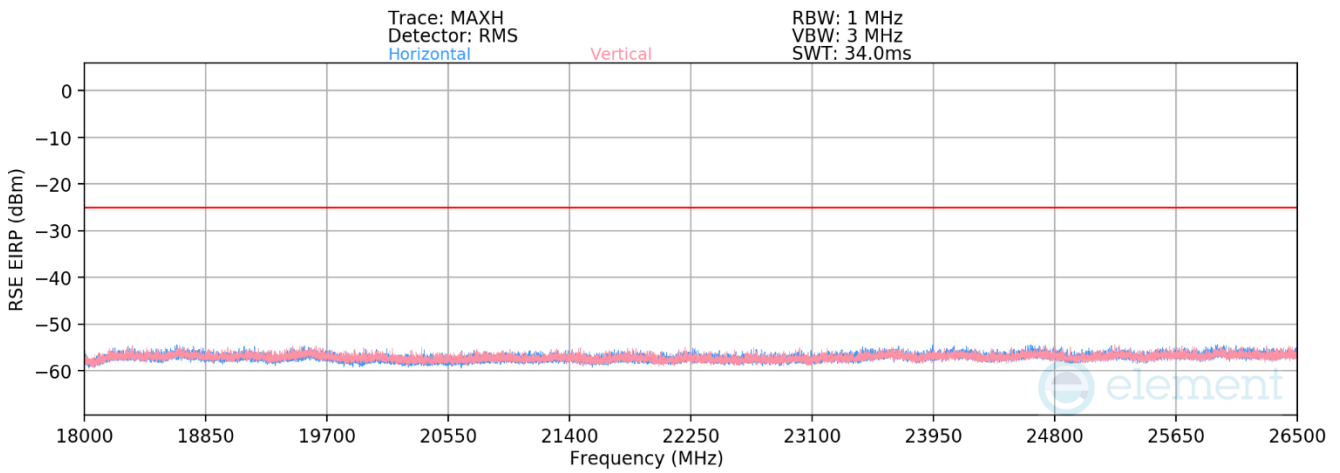
Table 7-49. Antenna 4b Radiated Spurious Data (LTE Band 30 – High Channel)

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LTE Band 7



Plot 7-904. Antenna 4b Radiated Spurious Plot 1GHz – 18GHz (LTE Band 7)



Plot 7-905. Antenna 4b Radiated Spurious Emission above 18GHz (LTE Band 7)

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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-78.74	4.53	32.79	-62.07	-25.00	-37.07
7530.0	V	-	-	-80.35	8.50	35.15	-58.67	-25.00	-33.67
10040.0	V	-	-	-80.87	10.65	36.78	-58.53	-25.00	-33.53

Table 7-50. Antenna 4b Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-78.60	4.82	33.23	-62.11	-25.00	-37.11
7605.0	V	-	-	-80.68	8.74	35.06	-59.60	-25.00	-34.60
10140.0	V	-	-	-81.09	10.70	36.60	-58.60	-25.00	-33.60

Table 7-51. Antenna 4b Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	-	-	-78.84	4.97	33.13	-62.30	-25.00	-37.30
7680.00	V	-	-	-80.88	9.11	35.23	-59.85	-25.00	-34.85
10240.00	V	-	-	-80.74	10.69	36.96	-58.05	-25.00	-33.05

Table 7-52. Antenna 4b Radiated Spurious Data (LTE Band 7 – High Channel)

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LTE Band 41

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-77.44	4.37	33.94	-61.32	-25.00	-36.32
7518.0	V	-	-	-79.76	8.50	35.74	-59.52	-25.00	-34.52
10024.0	V	-	-	-80.15	10.57	37.43	-57.83	-25.00	-32.83

Table 7-53. Antenna 4b Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-77.78	4.70	33.92	-61.34	-25.00	-36.34
7779.0	V	-	-	-80.03	9.40	36.36	-58.90	-25.00	-33.90
10372.0	V	-	-	-79.80	10.49	37.69	-57.57	-25.00	-32.57

Table 7-54. Antenna 4b Radiated Spurious Data (LTE Band 41 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-78.00	5.38	34.38	-60.88	-25.00	-35.88
8040.0	V	-	-	-79.86	9.30	36.44	-58.81	-25.00	-33.81
10720.0	V	-	-	-80.10	11.00	37.90	-57.36	-25.00	-32.36

Table 7-55. Antenna 4b Radiated Spurious Data (LTE Band 41 – High Channel)

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NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-77.62	2.54	31.92	-63.34	-40.00	-23.34
6922.5	V	-	-	-78.67	4.26	32.59	-62.66	-40.00	-22.66
9230.0	V	-	-	-78.05	4.21	33.16	-62.10	-40.00	-22.10

Table 7-56. Antenna 4b Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-77.31	2.54	32.23	-63.03	-40.00	-23.03
6930.0	V	-	-	-78.86	4.26	32.40	-62.86	-40.00	-22.86
9240.0	V	-	-	-78.15	4.26	33.11	-62.15	-40.00	-22.15

Table 7-57. Antenna 4b Radiated Spurious Data (NR Band n30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-77.23	2.47	32.24	-63.02	-40.00	-23.02
6937.5	V	-	-	-78.82	4.26	32.44	-62.81	-40.00	-22.81
9250.0	V	-	-	-78.07	4.22	33.16	-62.10	-40.00	-22.10

Table 7-58. Antenna 4b Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2837	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-78.04	2.48	31.44	-63.81	-25.00	-38.81
7560.0	V	-	-	-78.95	4.46	32.51	-62.74	-25.00	-37.74
10080.0	V	-	-	-78.30	5.51	34.21	-61.05	-25.00	-36.05

Table 7-59. Antenna 4b Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-78.13	2.91	31.78	-63.47	-25.00	-38.47
7605.0	V	-	-	-79.16	4.42	32.25	-63.00	-25.00	-38.00
10140.0	V	-	-	-78.53	5.89	34.36	-60.89	-25.00	-35.89

Table 7-60. Antenna 4b Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-78.02	3.32	32.30	-62.96	-25.00	-37.96
7650.0	V	-	-	-78.61	4.10	32.49	-62.77	-25.00	-37.77
10200.0	V	-	-	-78.62	6.18	34.56	-60.69	-25.00	-35.69

Table 7-61. Antenna 4b Radiated Spurious Data (NR Band n7 – High Channel)

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NR Band n41

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

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]
5092.0	V	-	-	-77.55	5.11	34.56	-60.70	-25.00	-35.70
7638.0	V	-	-	-78.95	9.24	37.29	-57.97	-25.00	-32.97
10184.0	V	-	-	-79.18	10.35	38.16	-57.10	-25.00	-32.10

Table 7-62. Antenna 4b Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136


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]
5186.0	V	-	-	-77.09	4.88	34.79	-60.47	-25.00	-35.47
7779.0	V	-	-	-79.43	9.58	37.15	-58.11	-25.00	-33.11
10372.0	V	-	-	-79.24	9.96	37.72	-57.54	-25.00	-32.54

Table 7-63. Antenna 4b Radiated Spurious Data (NR Band n41 – Mid Channel)

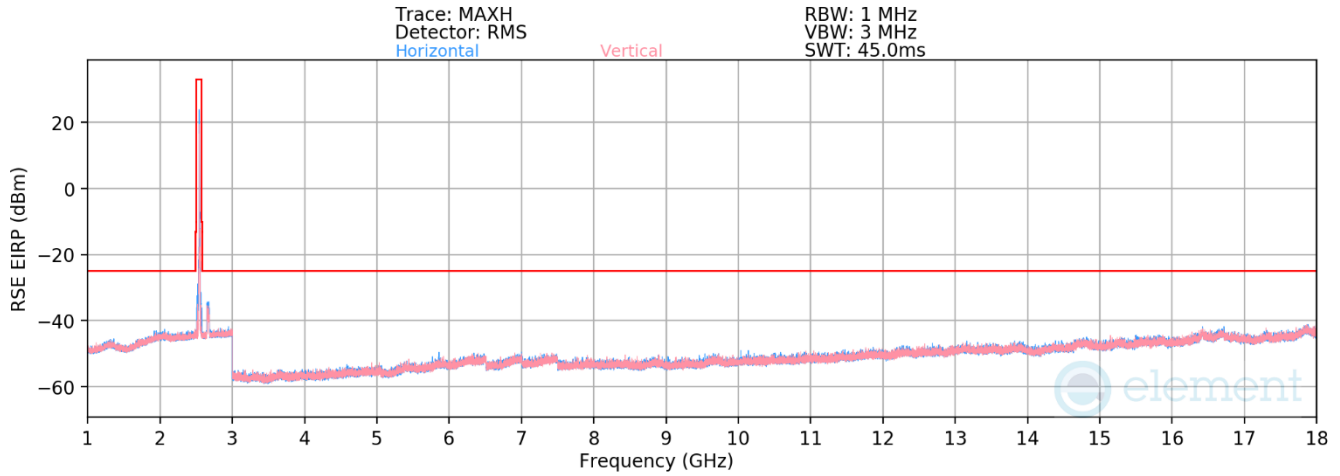
Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

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]
5280.0	V	-	-	-76.95	4.88	34.93	-60.33	-25.00	-35.33
7920.0	V	-	-	-78.83	9.49	37.66	-57.60	-25.00	-32.60
10560.0	V	-	-	-79.23	10.23	38.00	-57.26	-25.00	-32.26

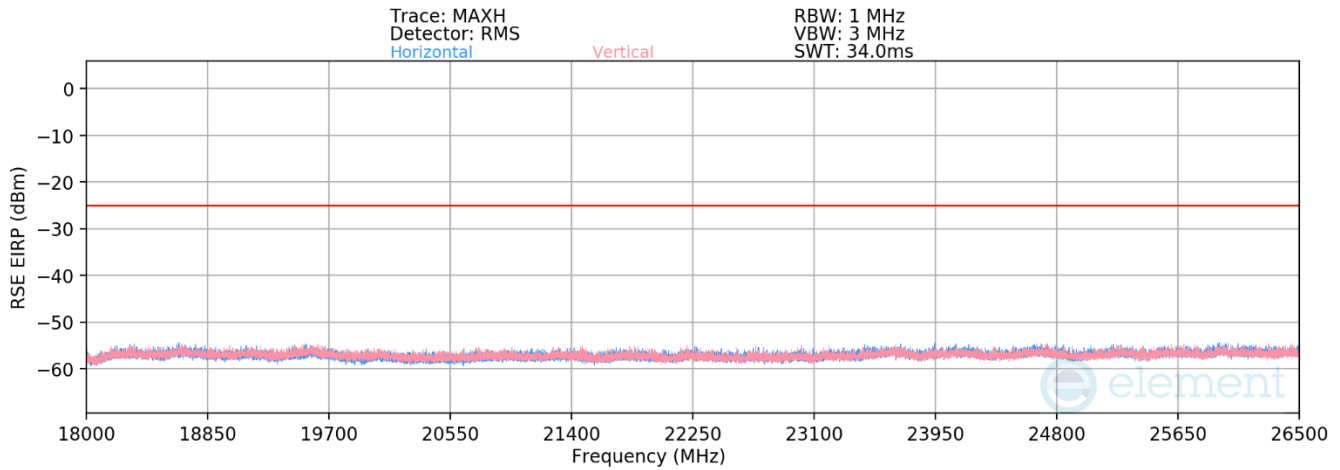
Table 7-64. Antenna 4b Radiated Spurious Data (NR Band n41 – High Channel)

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ULCA - LTE B7



Plot 7-906. Antenna 4b Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE Band 7)



Plot 7-907. Antenna 4b Radiated Spurious Emission above 18GHz (ULCA LTE Band 7)

FCC ID: BCGA2837	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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