



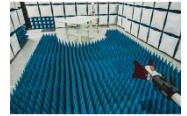
Element Materials Technology

(formerly PCTEST)

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PART 27 MEASUREMENT REPORT

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

5/9/2025 - 7/7/2025

Test Report Issue Date:

8/28/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170039-11.BCG

FCC ID:

BCGA3358

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A3358, A3359

EUT Type:

Tablet Device

FCC Classification:

PCS Licensed Transmitter (PCB)

FCC Rule Part:

27

Test Procedure(s):

ANSI C63.26-2015, TIA-603-E-2016, KDB 971168 D01
v03r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez

Executive Vice President



FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device
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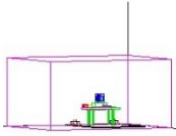
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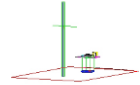
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Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 2 of 257

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PART 27 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [W]	Max. Power [dBm]	
NR Band n77 (PC2) (3450 - 3550MHz)	10 MHz	11/2 BPSK	3455.0 - 3545.0	8.590	4.10	0.568	27.54	8M59G7W
		QPSK	3455.0 - 3545.0	8.559	4.76	0.575	27.60	8M56G7W
		16QAM	3455.0 - 3545.0	8.596	6.00	0.436	26.39	8M60D7W
		64QAM	3455.0 - 3545.0	8.596	6.31	0.379	25.79	8M60D7W
		256QAM	3455.0 - 3545.0	8.592	6.56	0.238	23.77	8M59D7W
	15 MHz	11/2 BPSK	3457.5 - 3542.5	12.912	4.11	0.564	27.52	12M9G7W
		QPSK	3457.5 - 3542.5	13.600	4.95	0.571	27.56	13M6G7W
		16QAM	3457.5 - 3542.5	13.601	5.83	0.452	26.55	13M6D7W
		64QAM	3457.5 - 3542.5	13.607	6.55	0.366	25.64	13M6D7W
		256QAM	3457.5 - 3542.5	13.609	6.56	0.232	23.65	13M6D7W
	20 MHz	11/2 BPSK	3460.0 - 3540.0	17.970	4.13	0.565	27.52	18M0G7W
		QPSK	3460.0 - 3540.0	18.237	4.91	0.565	27.52	18M2G7W
		16QAM	3460.0 - 3540.0	18.200	5.81	0.442	26.46	18M2D7W
		64QAM	3460.0 - 3540.0	18.302	6.41	0.360	25.56	18M3D7W
		256QAM	3460.0 - 3540.0	18.254	6.65	0.230	23.62	18M3D7W
	25 MHz	11/2 BPSK	3462.5 - 3537.5	22.948	4.09	0.565	27.52	22M9G7W
		QPSK	3462.5 - 3537.5	23.285	5.01	0.557	27.46	23M3G7W
		16QAM	3462.5 - 3537.5	23.279	5.80	0.440	26.44	23M3D7W
		64QAM	3462.5 - 3537.5	23.229	6.28	0.368	25.66	23M2D7W
		256QAM	3462.5 - 3537.5	23.248	6.51	0.231	23.63	23M2D7W
	30 MHz	11/2 BPSK	3465.0 - 3535.0	26.893	4.15	0.565	27.52	26M9G7W
		QPSK	3465.0 - 3535.0	27.851	4.98	0.575	27.59	27M9G7W
		16QAM	3465.0 - 3535.0	27.893	5.80	0.432	26.36	27M9D7W
		64QAM	3465.0 - 3535.0	27.838	6.42	0.361	25.57	27M8D7W
		256QAM	3465.0 - 3535.0	27.936	6.63	0.226	23.53	27M9D7W
	40 MHz	11/2 BPSK	3470.0 - 3530.0	35.763	4.38	0.569	27.55	35M8G7W
		QPSK	3470.0 - 3530.0	37.997	5.14	0.554	27.44	38M0G7W
		16QAM	3470.0 - 3530.0	37.887	5.77	0.440	26.44	37M9D7W
		64QAM	3470.0 - 3530.0	37.904	6.40	0.354	25.49	37M9D7W
		256QAM	3470.0 - 3530.0	37.906	6.54	0.224	23.49	37M9D7W
	50 MHz	11/2 BPSK	3475.0 - 3525.0	45.804	4.38	0.565	27.52	45M8G7W
		QPSK	3475.0 - 3525.0	47.551	5.01	0.540	27.32	47M6G7W
		16QAM	3475.0 - 3525.0	47.652	5.82	0.432	26.36	47M7D7W
		64QAM	3475.0 - 3525.0	47.476	6.43	0.354	25.49	47M5D7W
		256QAM	3475.0 - 3525.0	47.399	6.53	0.221	23.44	47M4D7W
	60 MHz	11/2 BPSK	3480.0 - 3520.0	57.843	4.20	0.559	27.47	57M8G7W
		QPSK	3480.0 - 3520.0	58.028	4.87	0.560	27.48	58M0G7W
		16QAM	3480.0 - 3520.0	57.797	5.82	0.436	26.40	57M8D7W
		64QAM	3480.0 - 3520.0	57.897	6.43	0.342	25.34	57M9D7W
		256QAM	3480.0 - 3520.0	57.929	6.62	0.218	23.39	57M9D7W
	70 MHz	11/2 BPSK	3485.0 - 3515.0	64.256	4.22	0.547	27.38	64M3G7W
		QPSK	3485.0 - 3515.0	67.664	4.84	0.537	27.30	67M7G7W
		16QAM	3485.0 - 3515.0	67.704	5.80	0.458	26.61	67M7D7W
		64QAM	3485.0 - 3515.0	67.650	6.37	0.341	25.32	67M7D7W
		256QAM	3485.0 - 3515.0	67.614	6.65	0.218	23.39	67M6D7W
	80 MHz	11/2 BPSK	3490.0 - 3510.0	77.144	4.66	0.553	27.43	77M1G7W
		QPSK	3490.0 - 3510.0	77.678	5.00	0.559	27.48	77M7G7W
		16QAM	3490.0 - 3510.0	77.556	5.76	0.433	26.37	77M6D7W
		64QAM	3490.0 - 3510.0	77.652	6.34	0.340	25.31	77M7D7W
		256QAM	3490.0 - 3510.0	77.657	6.61	0.218	23.38	77M7D7W
	90 MHz	11/2 BPSK	3495.0 - 3505.0	86.722	4.18	0.547	27.38	86M7G7W
		QPSK	3495.0 - 3505.0	87.452	4.90	0.545	27.36	87M5G7W
		16QAM	3495.0 - 3505.0	87.611	5.79	0.391	25.92	87M6D7W
		64QAM	3495.0 - 3505.0	87.722	6.44	0.313	24.96	87M7D7W
		256QAM	3495.0 - 3505.0	87.601	6.70	0.200	23.01	87M6D7W
	100 MHz	11/2 BPSK	3500	96.277	4.75	0.571	27.57	96M3G7W
		QPSK	3500	97.542	5.00	0.558	27.47	97M5G7W
		16QAM	3500	97.529	5.80	0.449	26.52	97M5D7W
		64QAM	3500	97.480	6.37	0.351	25.45	97M5D7W
		256QAM	3500	97.465	6.70	0.201	23.03	97M5D7W

EUT Overview

FCC ID: BCGA3358		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 3 of 257

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [W]	Max. Power [dBm]	
NR Band n77 (PC3) (3450 - 3550MHz)	10 MHz	TT/2 BPSK	3455.0 - 3545.0	8.590	4.10	0.384	25.85	8M59G7W
		QPSK	3455.0 - 3545.0	8.559	4.76	0.381	25.81	8M56G7W
		16QAM	3455.0 - 3545.0	8.596	6.00	0.294	24.68	8M60D7W
		64QAM	3455.0 - 3545.0	8.596	6.31	0.254	24.05	8M60D7W
		256QAM	3455.0 - 3545.0	8.592	6.56	0.159	22.02	8M59D7W
	15 MHz	TT/2 BPSK	3457.5 - 3542.5	12.912	4.11	0.378	25.78	12M9G7W
		QPSK	3457.5 - 3542.5	13.600	4.95	0.380	25.80	13M6G7W
		16QAM	3457.5 - 3542.5	13.601	5.83	0.293	24.67	13M6D7W
		64QAM	3457.5 - 3542.5	13.607	6.55	0.239	23.78	13M6D7W
		256QAM	3457.5 - 3542.5	13.609	6.56	0.155	21.90	13M6D7W
	20 MHz	TT/2 BPSK	3460.0 - 3540.0	17.970	4.13	0.384	25.85	18M0G7W
		QPSK	3460.0 - 3540.0	18.237	4.91	0.388	25.89	18M2G7W
		16QAM	3460.0 - 3540.0	18.200	5.81	0.300	24.77	18M2D7W
		64QAM	3460.0 - 3540.0	18.302	6.41	0.242	23.83	18M3D7W
		256QAM	3460.0 - 3540.0	18.254	6.65	0.154	21.89	18M3D7W
	25 MHz	TT/2 BPSK	3462.5 - 3537.5	22.948	4.09	0.384	25.84	22M9G7W
		QPSK	3462.5 - 3537.5	23.285	5.01	0.373	25.72	23M3G7W
		16QAM	3462.5 - 3537.5	23.279	5.80	0.290	24.62	23M3D7W
		64QAM	3462.5 - 3537.5	23.229	6.28	0.246	23.91	23M2D7W
		256QAM	3462.5 - 3537.5	23.248	6.51	0.158	21.98	23M2D7W
	30MHz	TT/2 BPSK	3465.0 - 3535.0	26.893	4.15	0.391	25.92	26M9G7W
		QPSK	3465.0 - 3535.0	27.851	4.98	0.389	25.90	27M9G7W
		16QAM	3465.0 - 3535.0	27.893	5.80	0.310	24.91	27M9D7W
		64QAM	3465.0 - 3535.0	27.838	6.42	0.243	23.86	27M8D7W
		256QAM	3465.0 - 3535.0	27.936	6.63	0.154	21.88	27M9D7W
	40 MHz	TT/2 BPSK	3470.0 - 3530.0	35.763	4.38	0.384	25.84	35M8G7W
		QPSK	3470.0 - 3530.0	37.997	5.14	0.402	26.04	38M0G7W
		16QAM	3470.0 - 3530.0	37.887	5.77	0.305	24.84	37M9D7W
		64QAM	3470.0 - 3530.0	37.904	6.40	0.250	23.98	37M9D7W
		256QAM	3470.0 - 3530.0	37.906	6.54	0.156	21.94	37M9D7W
	50 MHz	TT/2 BPSK	3475.0 - 3525.0	45.804	4.38	0.384	25.85	45M8G7W
		QPSK	3475.0 - 3525.0	47.551	5.01	0.372	25.71	47M6G7W
		16QAM	3475.0 - 3525.0	47.652	5.82	0.300	24.77	47M7D7W
		64QAM	3475.0 - 3525.0	47.476	6.43	0.244	23.88	47M5D7W
		256QAM	3475.0 - 3525.0	47.399	6.53	0.157	21.97	47M4D7W
	60 MHz	TT/2 BPSK	3480.0 - 3520.0	57.843	4.20	0.380	25.80	57M8G7W
		QPSK	3480.0 - 3520.0	58.028	4.87	0.385	25.85	58M0G7W
		16QAM	3480.0 - 3520.0	57.797	5.82	0.295	24.70	57M8D7W
		64QAM	3480.0 - 3520.0	57.897	6.43	0.239	23.79	57M9D7W
		256QAM	3480.0 - 3520.0	57.929	6.62	0.150	21.76	57M9D7W
	70 MHz	TT/2 BPSK	3485.0 - 3515.0	64.256	4.22	0.369	25.67	64M3G7W
		QPSK	3485.0 - 3515.0	67.664	4.84	0.369	25.67	67M7G7W
		16QAM	3485.0 - 3515.0	67.704	5.80	0.284	24.53	67M7D7W
		64QAM	3485.0 - 3515.0	67.650	6.37	0.239	23.79	67M7D7W
		256QAM	3485.0 - 3515.0	67.614	6.65	0.153	21.85	67M6D7W
	80 MHz	TT/2 BPSK	3490.0 - 3510.0	77.144	4.66	0.384	25.84	77M1G7W
		QPSK	3490.0 - 3510.0	77.678	5.00	0.385	25.85	77M7G7W
		16QAM	3490.0 - 3510.0	77.556	5.76	0.290	24.62	77M6D7W
		64QAM	3490.0 - 3510.0	77.652	6.34	0.240	23.80	77M7D7W
		256QAM	3490.0 - 3510.0	77.657	6.61	0.150	21.77	77M7D7W
	90 MHz	TT/2 BPSK	3495.0 - 3505.0	86.722	4.18	0.375	25.74	86M7G7W
		QPSK	3495.0 - 3505.0	87.452	4.90	0.375	25.74	87M5G7W
		16QAM	3495.0 - 3505.0	87.611	5.79	0.289	24.61	87M6D7W
		64QAM	3495.0 - 3505.0	87.722	6.44	0.242	23.84	87M7D7W
		256QAM	3495.0 - 3505.0	87.601	6.70	0.152	21.82	87M6D7W
	100 MHz	TT/2 BPSK	3500	96.277	4.75	0.380	25.80	96M3G7W
		QPSK	3500	97.542	5.00	0.386	25.87	97M5G7W
		16QAM	3500	97.529	5.80	0.290	24.62	97M5D7W
		64QAM	3500	97.480	6.37	0.239	23.79	97M5D7W
		256QAM	3500	97.465	6.70	0.153	21.85	97M5D7W

EUT Overview

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Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 4 of 257

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [W]	Max. Power [dBm]	
NR Band n77 (PC2) (3700 - 3980MHz)	10 MHz	TT/2 BPSK	3705.0 - 3975.0	8.536	4.09	0.538	27.30	8M54G7W
		QPSK	3705.0 - 3975.0	8.558	4.71	0.538	27.31	8M56G7W
		16QAM	3705.0 - 3975.0	8.642	5.91	0.411	26.13	8M64D7W
		64QAM	3705.0 - 3975.0	8.517	6.26	0.351	25.46	8M52D7W
		256QAM	3705.0 - 3975.0	8.588	6.57	0.222	23.45	8M59D7W
	15 MHz	TT/2 BPSK	3707.5 - 3972.5	12.927	4.17	0.536	27.30	12M9G7W
		QPSK	3707.5 - 3972.5	13.580	4.95	0.534	27.28	13M6G7W
		16QAM	3707.5 - 3972.5	13.627	5.83	0.430	26.33	13M6D7W
		64QAM	3707.5 - 3972.5	13.544	6.51	0.344	25.37	13M5D7W
		256QAM	3707.5 - 3972.5	13.630	6.59	0.220	23.42	13M6D7W
	20 MHz	TT/2 BPSK	3710.0 - 3970.0	17.886	4.26	0.543	27.35	17M9G7W
		QPSK	3710.0 - 3970.0	18.221	4.99	0.538	27.31	18M2G7W
		16QAM	3710.0 - 3970.0	18.203	5.85	0.439	26.42	18M2D7W
		64QAM	3710.0 - 3970.0	18.297	6.39	0.344	25.37	18M3D7W
		256QAM	3710.0 - 3970.0	18.303	6.72	0.224	23.51	18M3D7W
	25MHz	TT/2 BPSK	3712.5 - 3967.5	22.938	4.28	0.556	27.45	22M9G7W
		QPSK	3712.5 - 3967.5	23.243	5.12	0.546	27.37	23M2G7W
		16QAM	3712.5 - 3967.5	23.273	5.89	0.422	26.25	23M3D7W
		64QAM	3712.5 - 3967.5	23.210	6.35	0.358	25.54	23M2D7W
		256QAM	3712.5 - 3967.5	23.279	6.58	0.226	23.54	23M3D7W
	30MHz	TT/2 BPSK	3715.0 - 3965.0	26.831	4.41	0.552	27.42	26M8G7W
		QPSK	3715.0 - 3965.0	27.940	5.13	0.562	27.49	27M9G7W
		16QAM	3715.0 - 3965.0	27.931	5.91	0.439	26.42	27M9D7W
		64QAM	3715.0 - 3965.0	27.899	6.52	0.355	25.50	27M9D7W
		256QAM	3715.0 - 3965.0	27.903	6.70	0.219	23.41	27M9D7W
	40 MHz	TT/2 BPSK	3720.0 - 3960.0	35.787	4.60	0.560	27.48	35M8G7W
		QPSK	3720.0 - 3960.0	37.984	5.27	0.556	27.45	38M0G7W
		16QAM	3720.0 - 3960.0	37.977	5.91	0.423	26.26	38M0D7W
		64QAM	3720.0 - 3960.0	37.950	6.46	0.352	25.47	38M0D7W
		256QAM	3720.0 - 3960.0	37.998	6.58	0.223	23.48	38M0D7W
	50 MHz	TT/2 BPSK	3725.0 - 3955.0	45.621	4.56	0.575	27.59	45M6G7W
		QPSK	3725.0 - 3955.0	47.509	5.02	0.554	27.44	47M5G7W
		16QAM	3725.0 - 3955.0	47.609	5.94	0.423	26.27	47M6D7W
		64QAM	3725.0 - 3955.0	47.543	6.46	0.361	25.58	47M5D7W
		256QAM	3725.0 - 3955.0	47.605	6.51	0.225	23.52	47M6D7W
	60 MHz	TT/2 BPSK	3730.0 - 3950.0	58.078	3.93	0.555	27.45	58M1G7W
		QPSK	3730.0 - 3950.0	58.052	4.58	0.553	27.43	58M1G7W
		16QAM	3730.0 - 3950.0	57.816	5.89	0.447	26.50	57M8D7W
		64QAM	3730.0 - 3950.0	57.931	6.24	0.351	25.45	57M9D7W
		256QAM	3730.0 - 3950.0	57.996	6.51	0.220	23.43	58M0D7W
	70 MHz	TT/2 BPSK	3735.0 - 3945.0	64.273	3.92	0.549	27.39	64M3G7W
		QPSK	3735.0 - 3945.0	67.602	4.67	0.540	27.32	67M6G7W
		16QAM	3735.0 - 3945.0	67.699	5.90	0.433	26.37	67M7D7W
		64QAM	3735.0 - 3945.0	67.447	6.22	0.348	25.42	67M4D7W
		256QAM	3735.0 - 3945.0	67.686	6.48	0.220	23.43	67M7D7W
	80 MHz	TT/2 BPSK	3740.0 - 3940.0	77.354	4.72	0.558	27.46	77M4G7W
		QPSK	3740.0 - 3940.0	77.614	4.82	0.554	27.43	77M6G7W
		16QAM	3740.0 - 3940.0	77.664	6.07	0.439	26.42	77M7D7W
		64QAM	3740.0 - 3940.0	77.815	6.22	0.355	25.50	77M8D7W
		256QAM	3740.0 - 3940.0	77.698	6.56	0.223	23.47	77M7D7W
	90 MHz	TT/2 BPSK	3745.0 - 3935.0	87.152	4.22	0.552	27.42	87M2G7W
		QPSK	3745.0 - 3935.0	87.878	5.04	0.552	27.42	87M9G7W
		16QAM	3745.0 - 3935.0	87.608	6.31	0.423	26.26	87M6D7W
		64QAM	3745.0 - 3935.0	87.996	6.62	0.348	25.41	88M0D7W
		256QAM	3745.0 - 3935.0	87.557	6.66	0.221	23.44	87M6D7W
	100 MHz	TT/2 BPSK	3750.0 - 3930.0	96.307	4.16	0.554	27.44	96M3G7W
		QPSK	3750.0 - 3930.0	97.466	5.35	0.555	27.45	97M5G7W
		16QAM	3750.0 - 3930.0	97.529	6.51	0.415	26.18	97M5D7W
		64QAM	3750.0 - 3930.0	97.729	6.74	0.353	25.48	97M7D7W
		256QAM	3750.0 - 3930.0	97.736	6.81	0.221	23.44	97M7D7W

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [W]	Max. Power [dBm]	
NR Band n77 (PC3) (3700 - 3980MHz)	10 MHz	TT/2 BPSK	3705.0 - 3975.0	8.536	4.09	0.363	25.60	8M54G7W
		QPSK	3705.0 - 3975.0	8.558	4.71	0.360	25.56	8M56G7W
		16QAM	3705.0 - 3975.0	8.642	5.91	0.279	24.46	8M64D7W
		64QAM	3705.0 - 3975.0	8.517	6.26	0.234	23.70	8M52D7W
		256QAM	3705.0 - 3975.0	8.588	6.57	0.148	21.70	8M59D7W
	15 MHz	TT/2 BPSK	3707.5 - 3972.5	12.927	4.17	0.357	25.52	12M9G7W
		QPSK	3707.5 - 3972.5	13.580	4.95	0.372	25.71	13M6G7W
		16QAM	3707.5 - 3972.5	13.627	5.83	0.270	24.31	13M6D7W
		64QAM	3707.5 - 3972.5	13.544	6.51	0.227	23.57	13M5D7W
		256QAM	3707.5 - 3972.5	13.630	6.59	0.145	21.63	13M6D7W
	20 MHz	TT/2 BPSK	3710.0 - 3970.0	17.886	4.26	0.360	25.56	17M9G7W
		QPSK	3710.0 - 3970.0	18.221	4.99	0.355	25.50	18M2G7W
		16QAM	3710.0 - 3970.0	18.203	5.85	0.273	24.37	18M2D7W
		64QAM	3710.0 - 3970.0	18.297	6.39	0.229	23.60	18M3D7W
		256QAM	3710.0 - 3970.0	18.303	6.72	0.146	21.65	18M3D7W
	25MHz	TT/2 BPSK	3712.5 - 3967.5	22.938	4.28	0.364	25.61	22M9G7W
		QPSK	3712.5 - 3967.5	23.243	5.12	0.355	25.50	23M2G7W
		16QAM	3712.5 - 3967.5	23.273	5.89	0.283	24.51	23M3D7W
		64QAM	3712.5 - 3967.5	23.210	6.35	0.235	23.70	23M2D7W
		256QAM	3712.5 - 3967.5	23.279	6.58	0.148	21.69	23M3D7W
	30MHz	TT/2 BPSK	3715.0 - 3965.0	26.831	4.41	0.360	25.56	26M8G7W
		QPSK	3715.0 - 3965.0	27.940	5.13	0.361	25.58	27M9G7W
		16QAM	3715.0 - 3965.0	27.931	5.91	0.284	24.53	27M9D7W
		64QAM	3715.0 - 3965.0	27.899	6.52	0.230	23.61	27M9D7W
		256QAM	3715.0 - 3965.0	27.903	6.70	0.144	21.58	27M9D7W
	40 MHz	TT/2 BPSK	3720.0 - 3960.0	35.787	4.60	0.362	25.59	35M8G7W
		QPSK	3720.0 - 3960.0	37.984	5.27	0.366	25.64	38M0G7W
		16QAM	3720.0 - 3960.0	37.977	5.91	0.285	24.55	38M0D7W
		64QAM	3720.0 - 3960.0	37.950	6.46	0.231	23.64	38M0D7W
		256QAM	3720.0 - 3960.0	37.998	6.58	0.147	21.68	38M0D7W
	50 MHz	TT/2 BPSK	3725.0 - 3955.0	45.621	4.56	0.362	25.59	45M6G7W
		QPSK	3725.0 - 3955.0	47.509	5.02	0.359	25.55	47M5G7W
		16QAM	3725.0 - 3955.0	47.609	5.94	0.275	24.40	47M6D7W
		64QAM	3725.0 - 3955.0	47.543	6.46	0.232	23.66	47M5D7W
		256QAM	3725.0 - 3955.0	47.605	6.51	0.147	21.67	47M6D7W
	60 MHz	TT/2 BPSK	3730.0 - 3950.0	58.078	3.93	0.364	25.62	58M1G7W
		QPSK	3730.0 - 3950.0	58.052	4.58	0.360	25.57	58M1G7W
		16QAM	3730.0 - 3950.0	57.816	5.89	0.283	24.51	57M8D7W
		64QAM	3730.0 - 3950.0	57.931	6.24	0.225	23.53	57M9D7W
		256QAM	3730.0 - 3950.0	57.996	6.51	0.142	21.52	58M0D7W
	70 MHz	TT/2 BPSK	3735.0 - 3945.0	64.273	3.92	0.357	25.53	64M3G7W
		QPSK	3735.0 - 3945.0	67.602	4.67	0.365	25.63	67M6G7W
		16QAM	3735.0 - 3945.0	67.699	5.90	0.266	24.25	67M7D7W
		64QAM	3735.0 - 3945.0	67.447	6.22	0.226	23.55	67M4D7W
		256QAM	3735.0 - 3945.0	67.686	6.48	0.142	21.53	67M7D7W
	80 MHz	TT/2 BPSK	3740.0 - 3940.0	77.354	4.72	0.362	25.58	77M4G7W
		QPSK	3740.0 - 3940.0	77.614	4.82	0.354	25.49	77M6G7W
		16QAM	3740.0 - 3940.0	77.664	6.07	0.275	24.39	77M7D7W
		64QAM	3740.0 - 3940.0	77.815	6.22	0.228	23.57	77M8D7W
		256QAM	3740.0 - 3940.0	77.698	6.56	0.142	21.54	77M7D7W
	90 MHz	TT/2 BPSK	3745.0 - 3935.0	87.152	4.22	0.358	25.54	87M2G7W
		QPSK	3745.0 - 3935.0	87.878	5.04	0.363	25.60	87M9G7W
		16QAM	3745.0 - 3935.0	87.608	6.31	0.271	24.34	87M6D7W
		64QAM	3745.0 - 3935.0	87.996	6.62	0.223	23.48	88M0D7W
		256QAM	3745.0 - 3935.0	87.557	6.66	0.142	21.51	87M6D7W
	100 MHz	TT/2 BPSK	3750.0 - 3930.0	96.307	4.16	0.358	25.54	96M3G7W
		QPSK	3750.0 - 3930.0	97.466	5.35	0.341	25.33	97M5G7W
		16QAM	3750.0 - 3930.0	97.529	6.51	0.274	24.38	97M5D7W
		64QAM	3750.0 - 3930.0	97.729	6.74	0.227	23.56	97M7D7W
		256QAM	3750.0 - 3930.0	97.736	6.81	0.143	21.56	97M7D7W

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID:BCGA3358**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 27.

Test Device Serial No.: PR2VX0967D, VD46R476X4, TH090R54C9, H9HHG4000900000X4G, H9HHG40009S0000X4G

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), WPT

This device supports BT Beamforming

This device supports channel puncturing and channel bandwidth reduction.

This device supports simultaneous transmission operations, which allows for multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be	LB	MB/HB	UHB
Ant 4a	Config 1	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 2	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 3	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 4	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 5	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 4a	Config 6	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 4a	Config 7	✗	✗	✓	✗	✗	✓	✗	✗	✗
Ant 2a	Config 8	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 9	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 10	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 11	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 12	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 2a	Config 13	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 2a	Config 14	✗	✗	✓	✗	✗	✓	✗	✗	✗

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst case configuration was found to be Config 1 and reported in RF Bluetooth and RF UNII OFDM test reports.

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2.3 Antenna Description

The following antenna gains provided by the manufacturer were used for testing.

Band	Antenna Gain [dBi]			
	Antenna 3	Antenna 1	Antenna 4b	Antenna 2b
NR Band n77 (Sub 1)	0.1	-0.7	0.5	-2.5
NR Band n77 (Sub 2)	0.1	0.8	-1.5	-4.1

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	A246C	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-3. Test Support Equipment

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.26 2015, TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel were reported.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.6 Software and Firmware

The test was conducted with firmware version 23A256 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the documents titled “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015 and TIA-603-E-2016) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:

$$E_{[\text{dB}\mu\text{V/m}]} = \text{Measured amplitude level}_{[\text{dBm}]} + 107 + \text{Cable Loss}_{[\text{dB}]} + \text{Antenna Factor}_{[\text{dB/m}]}$$

And

$$\text{EIRP}_{[\text{dBm}]} = E_{[\text{dB}\mu\text{V/m}]} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

Radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015 and TIA-603-E-2016.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	2.07
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz-1GHz)	4.85
Radiated Disturbance (1-18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	00240109
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted RF Cable *	6/10/2025	Annual	6/10/2026	-
Fairview Microwave	M2CP1122-10	30MHz-40GHz Conducted Coupler *	6/10/2025	Annual	6/10/2026	1946
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	9/5/2024	Annual	9/5/2025	MY61320121
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	11/21/2024	Annual	11/21/2025	104093
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	9/20/2024	Annual	9/20/2025	102327
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/30/2023	Annual	10/2/2025	191707
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

Table 5-1. Test Equipment

Notes:

1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
2. * denotes passive equipment that have been internally verified/calibrated.

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6.0 SAMPLE CALCULATIONS

Emission Designator

$\pi/2$ BPSK / QPSK Modulation

Emission Designator = 8M62G7W

BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination of Any

QAM Modulation

Emission Designator = 8M45D7W

BW = 8.45 MHz

D = Amplitude/Angle Modulated

7 = Quantized/Digital Info

W = Combination of Any

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm $- (-24.80) = 50.3$ dBc.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3358
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	N/A	N/A	Section 7.2
	Conducted Band Edge / Spurious Emissions (NR Band n77 - 3450-3550MHz)	2.1051, 27.53(n)(2)	-13 dBm at Band Edge and for all out-of-band emissions	PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (NR Band n77 - 3700-3980MHz)	2.1051, 27.53(l)(2)		PASS	Sections 7.3, 7.4
	Peak-Average Ratio (NR Band n77 - 3450-3550MHz)	27.50(k)(4)	< 13 dB	PASS	Sections 7.5
	Peak-Average Ratio (NR Band n77 - 3700-3980MHz)	27.50(j)(4)		PASS	Sections 7.5
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Equivalent Isotropic Radiated Power (NR Band n77 - 3450-3550MHz)	27.50(k)(3)	< 1 Watts max. EIRP	PASS	Section 7.6
	Equivalent Isotropic Radiated Power (NR Band n77 - 3700-3980MHz)	27.50(j)(3)		PASS	Section 7.6
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block	PASS	Section 7.8
RADIATED	Radiated Spurious Emissions (NR Band n77 - 3450-3550MHz)	2.1051, 27.53(n)(2)	-13 dBm for all out-of-band emissions	PASS	Section 7.7
	Radiated Spurious Emissions (NR Band n77 - 3700-3980MHz)	2.1051, 27.53(l)(2)		PASS	Section 7.7

Table 7-1. Summary of Test Results

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Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
4. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized was Element EMC Software Tool EMC Software Tool v1.1.
5. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.

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7.2 Occupied Bandwidth

§2.1049

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

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

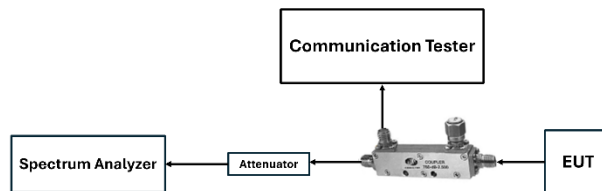


Figure 7-1. LTE Test Instrument & Measurement Setup

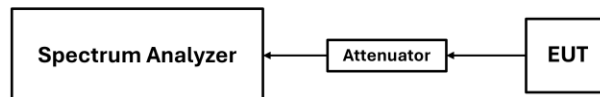


Figure 7-2. FR1 Test Instrument & Measurement Setup

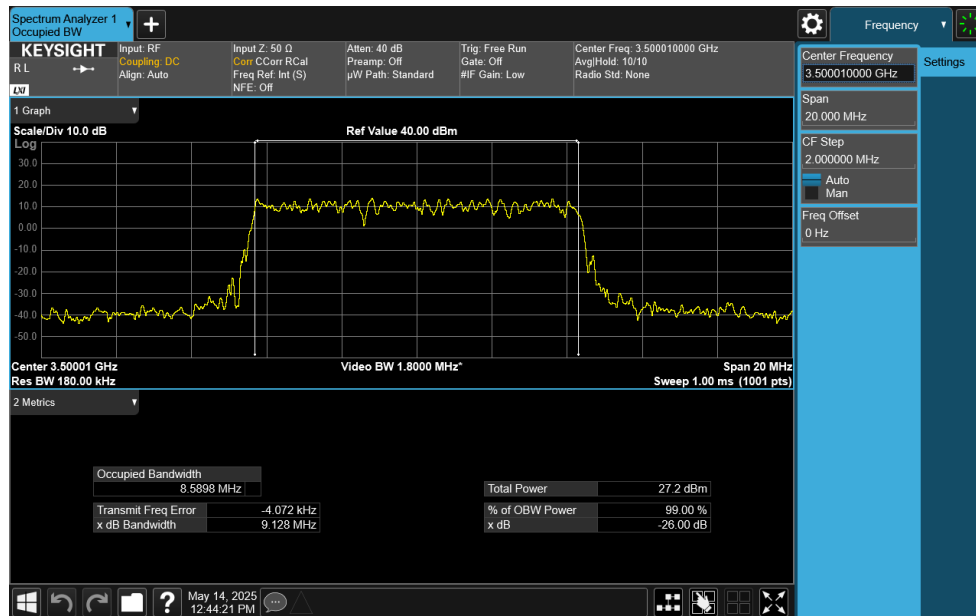
Test Notes

1. 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.

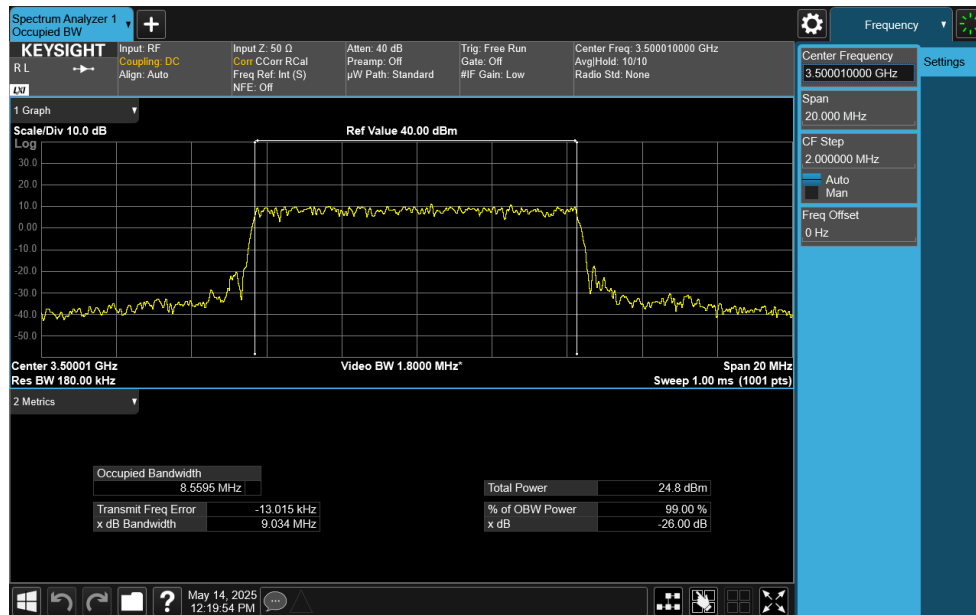
FCC ID: BCGA3358		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n77 DoD-Band



Plot 7-1. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

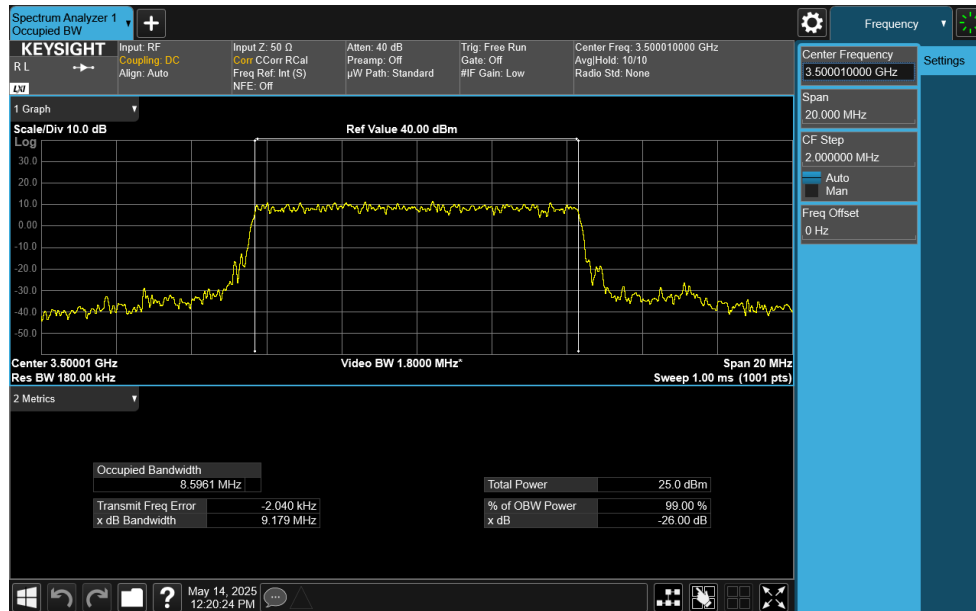


Plot 7-2. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM QPSK - Full RB)

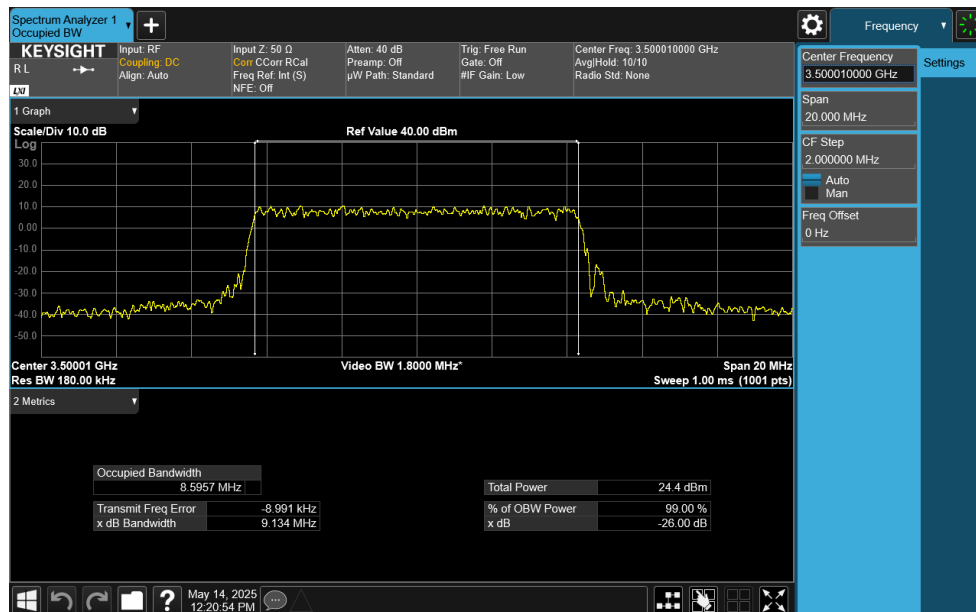
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-3. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 16-QAM - Full RB)



Plot 7-4. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 64-QAM - Full RB)

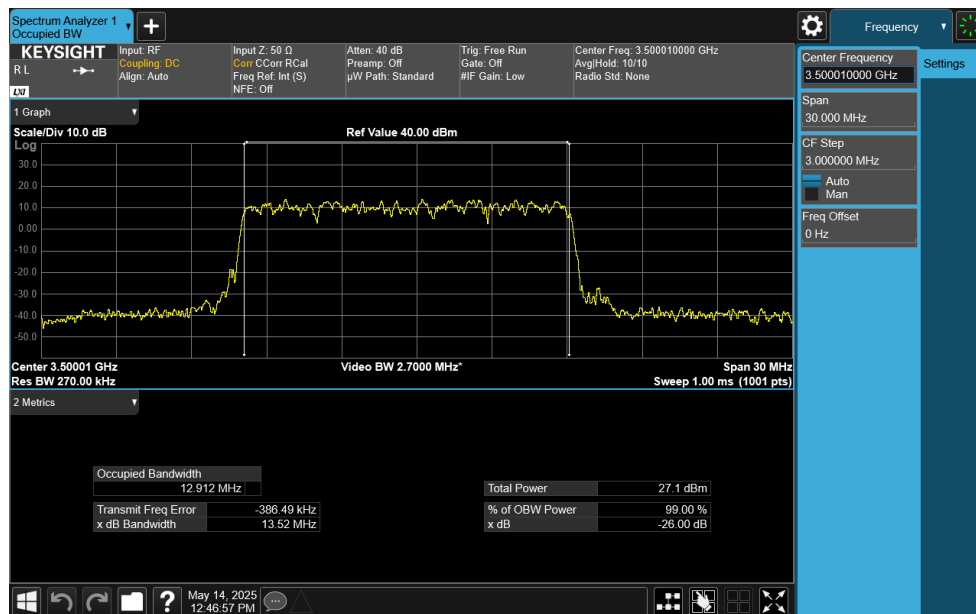
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-5. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 256-QAM - Full RB)

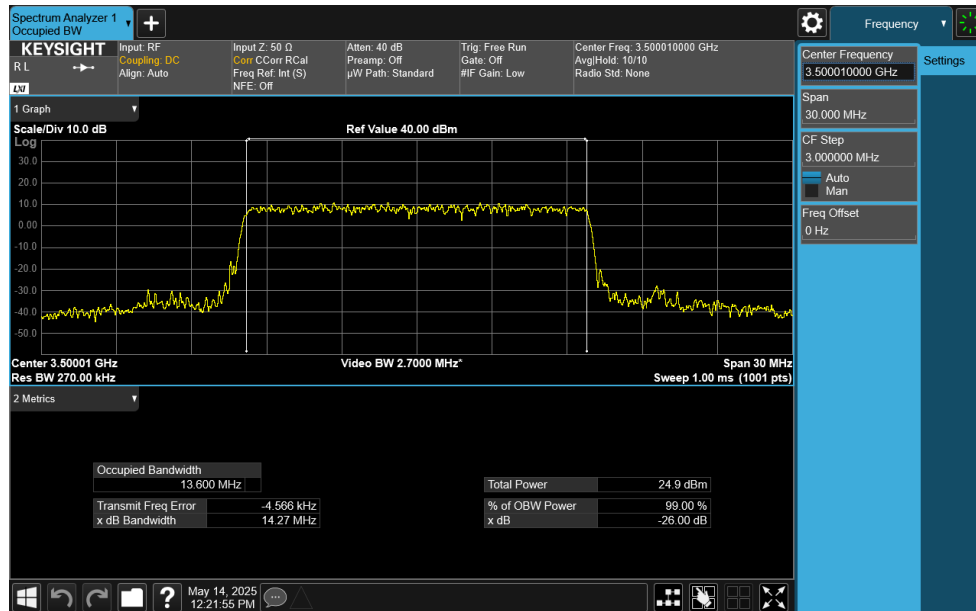


Plot 7-6. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

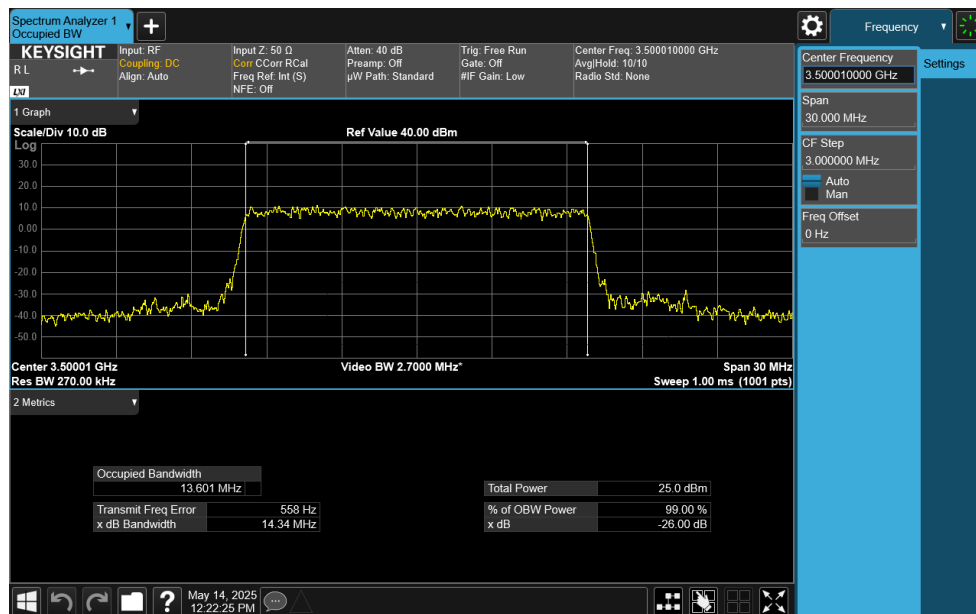
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-7. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM QPSK - Full RB)

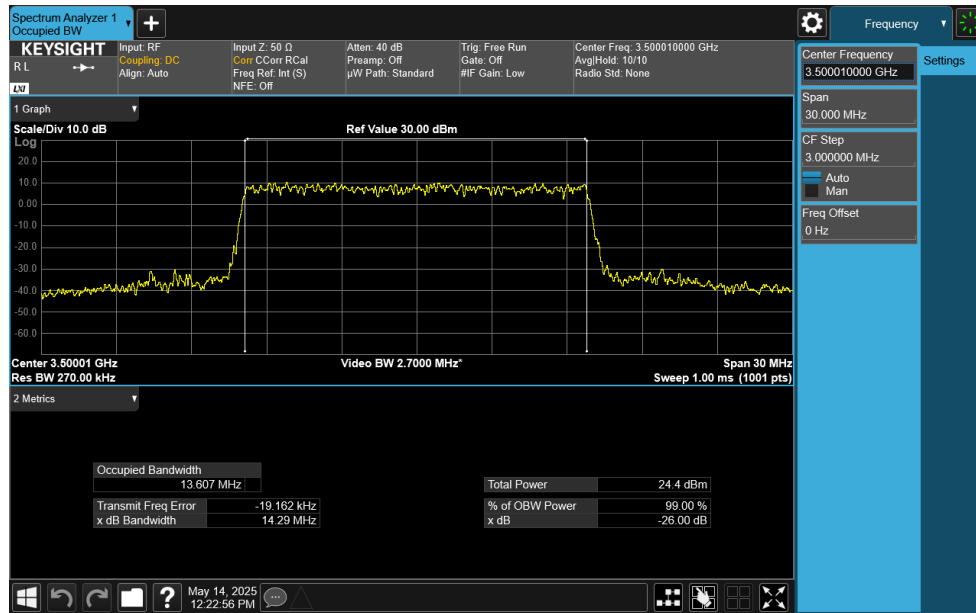


Plot 7-8. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 16-QAM - Full RB)

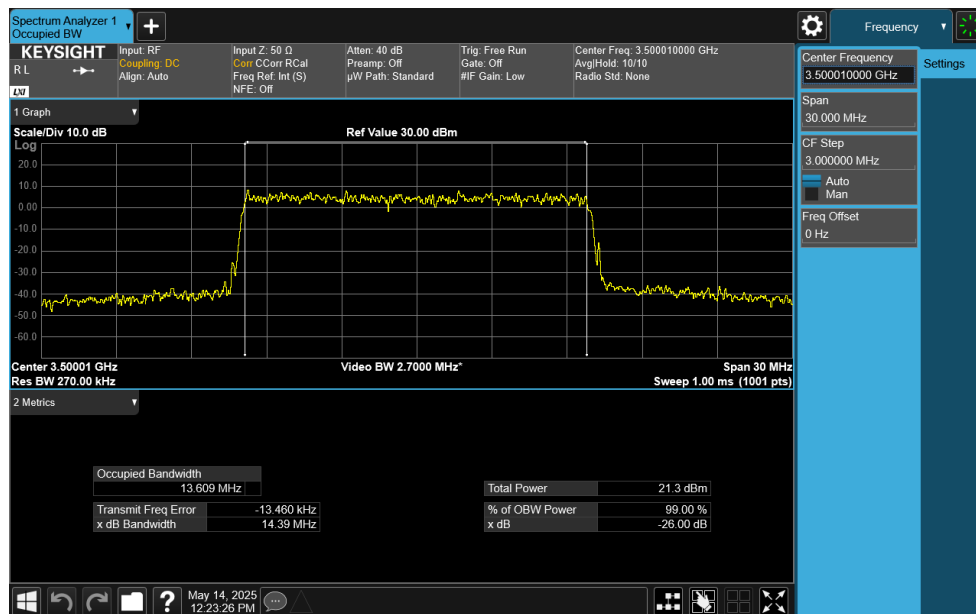
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-9. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 64-QAM - Full RB)

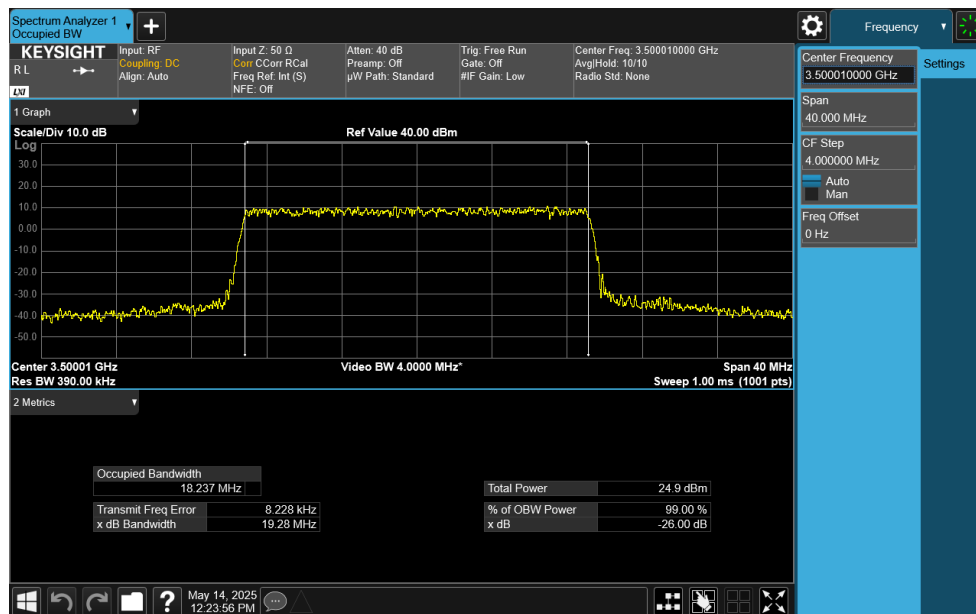
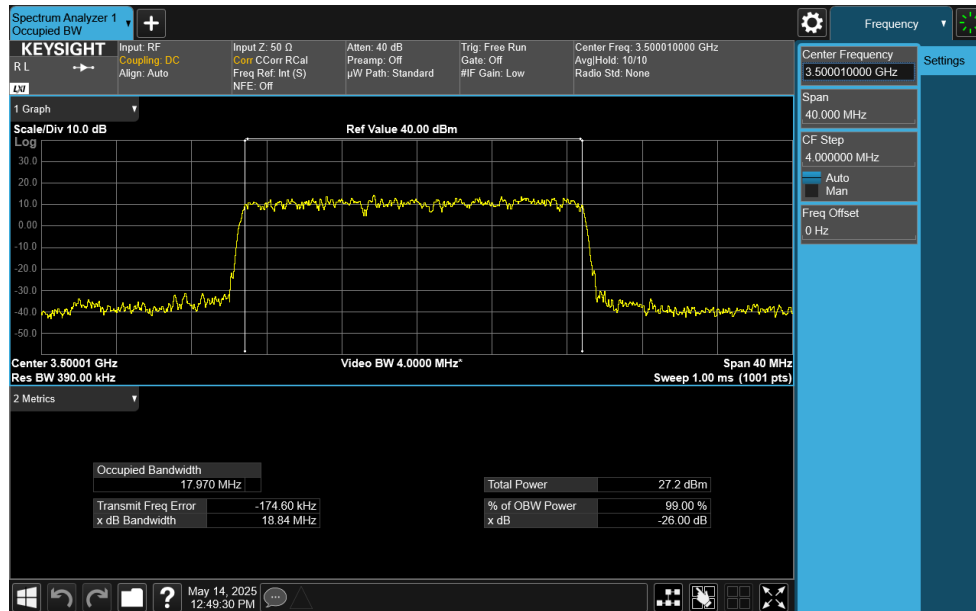


Plot 7-10. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 256-QAM - Full RB)

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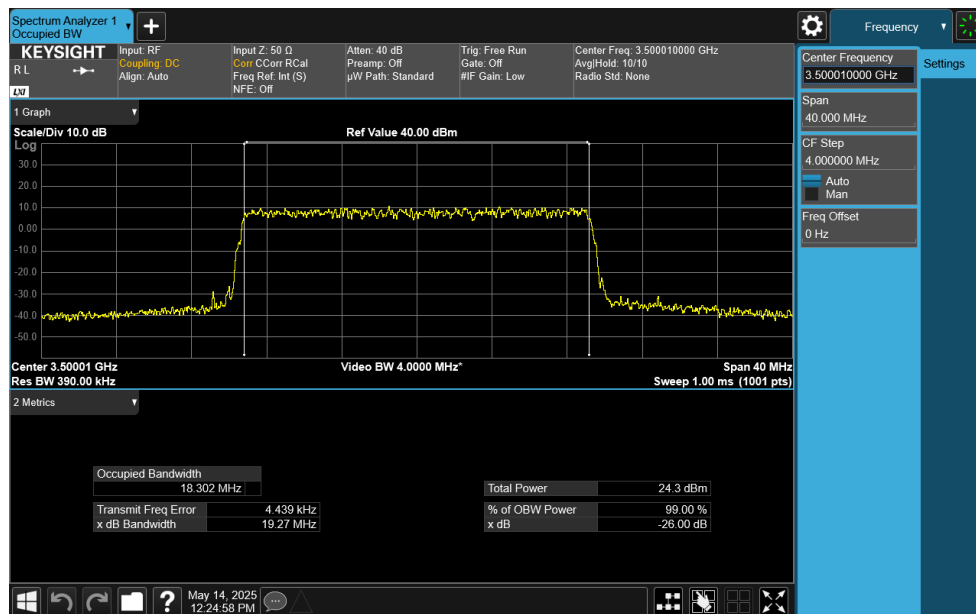
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 16-QAM - Full RB)

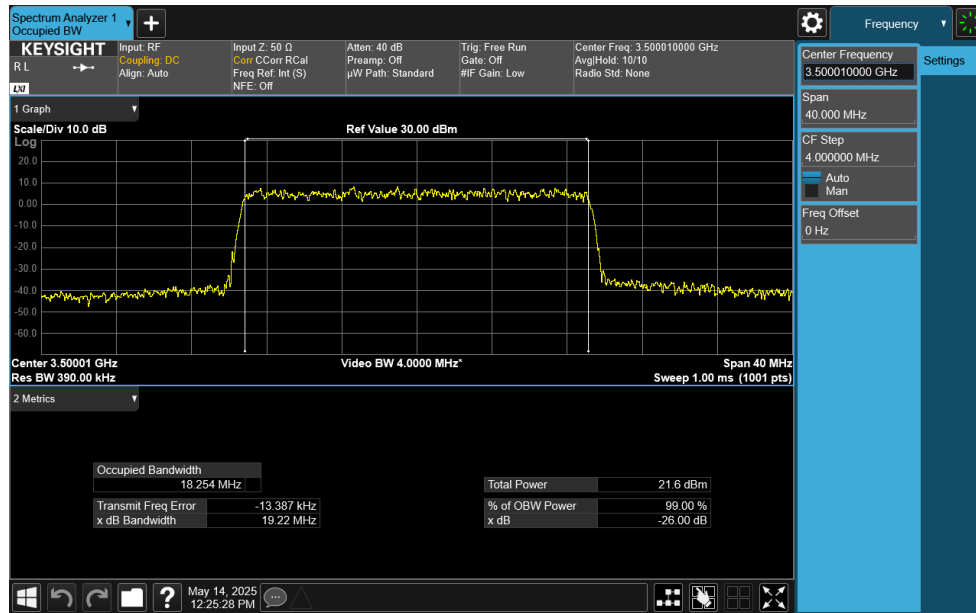


Plot 7-14. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 64-QAM - Full RB)

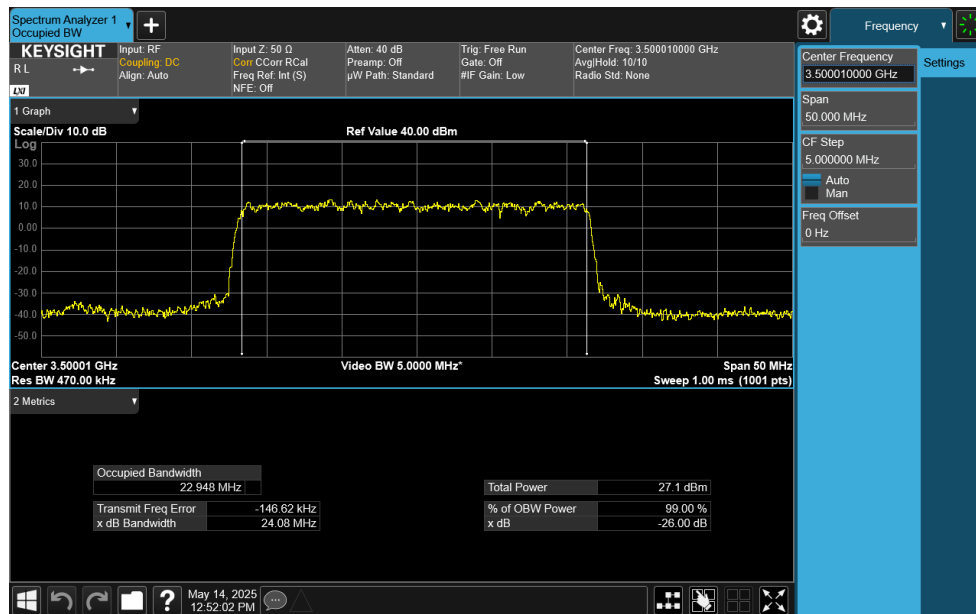
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-15. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 256-QAM - Full RB)

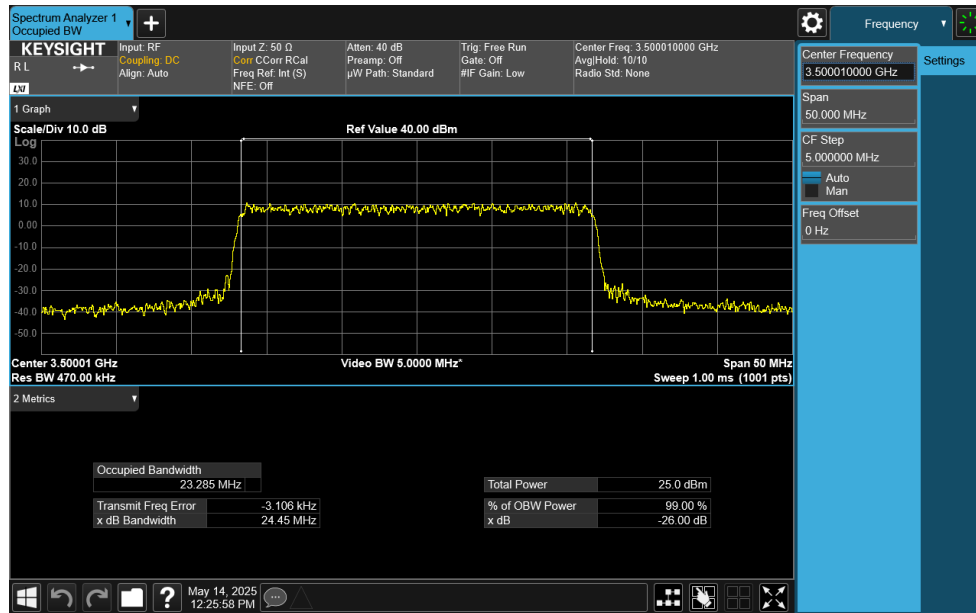


Plot 7-16. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

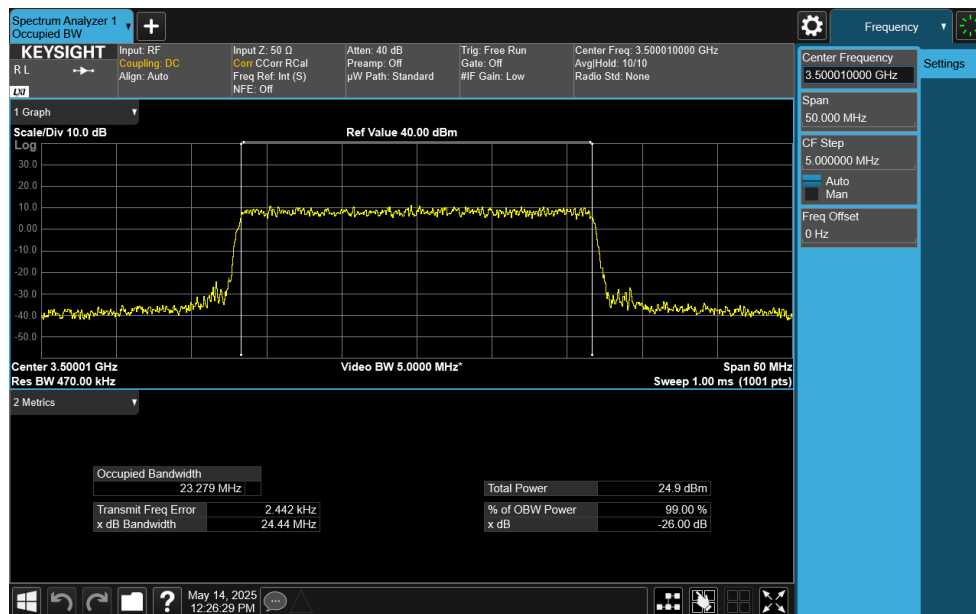
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-17. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM QPSK - Full RB)

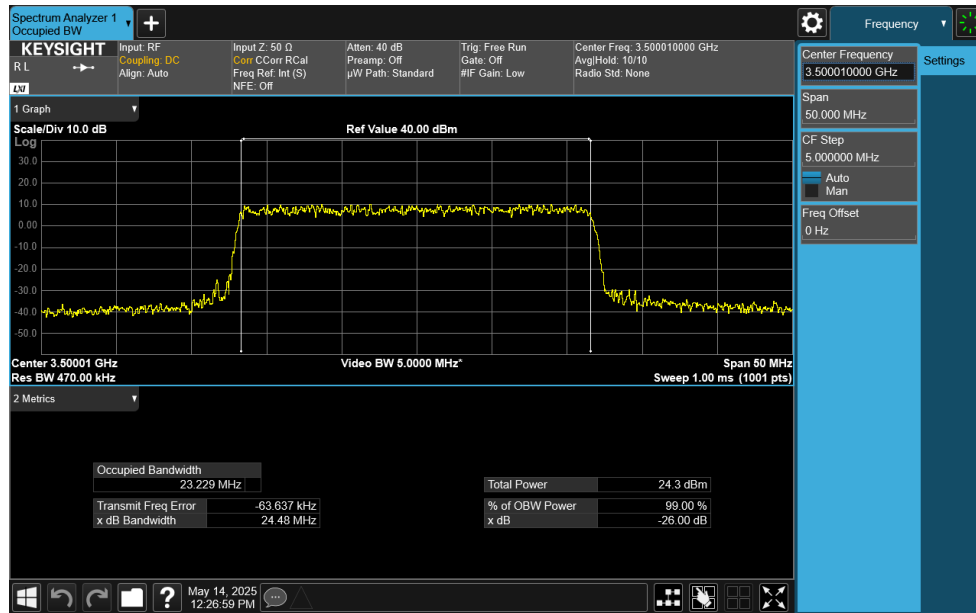


Plot 7-18. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 16-QAM - Full RB)

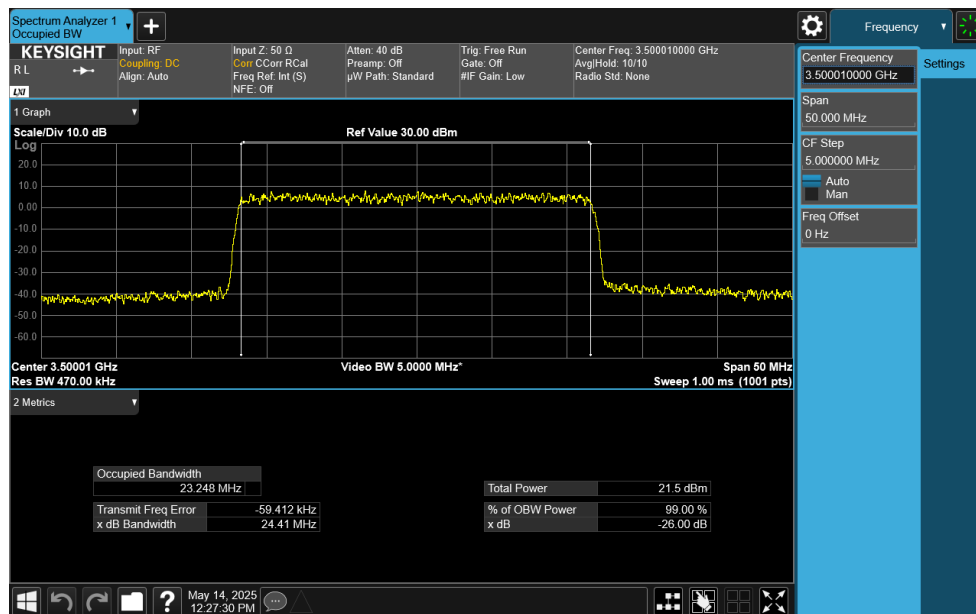
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-19. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 64-QAM - Full RB)

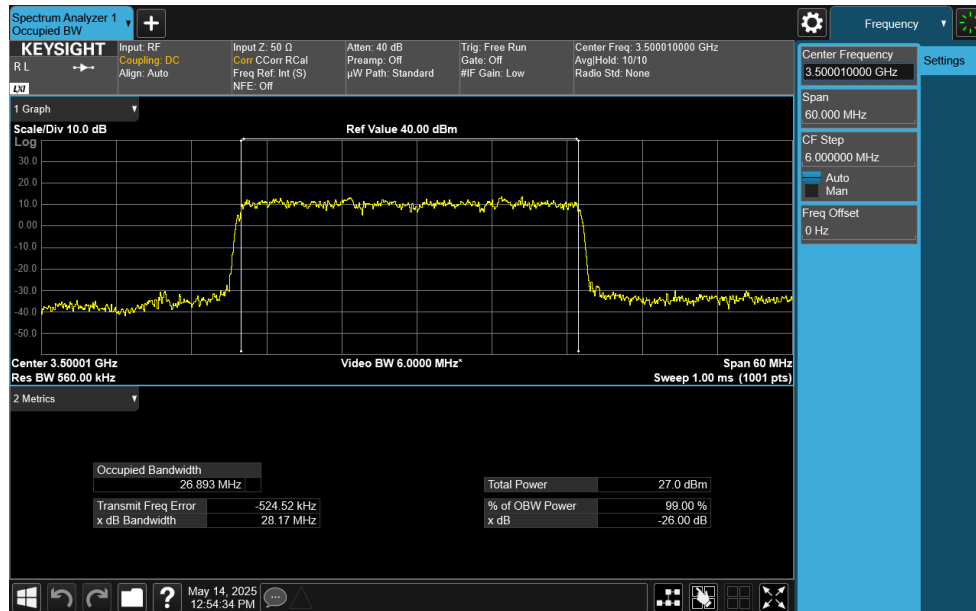


Plot 7-20. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 256-QAM - Full RB)

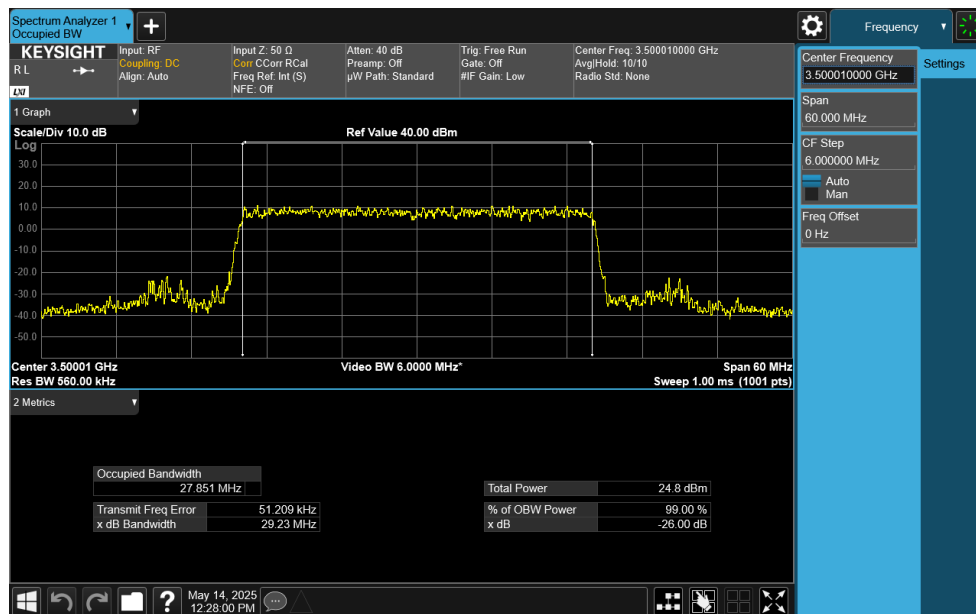
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-21. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

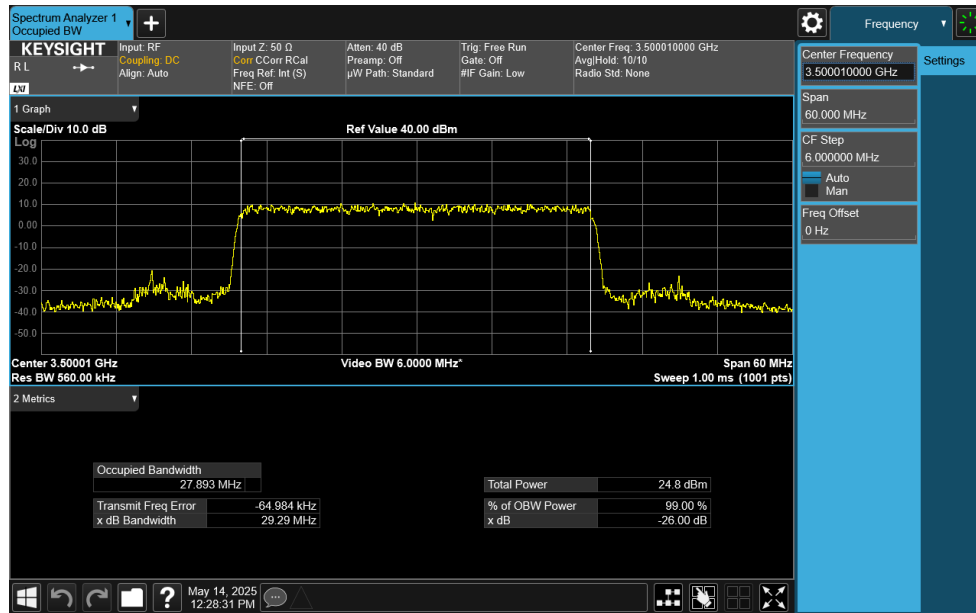


Plot 7-22. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM QPSK - Full RB)

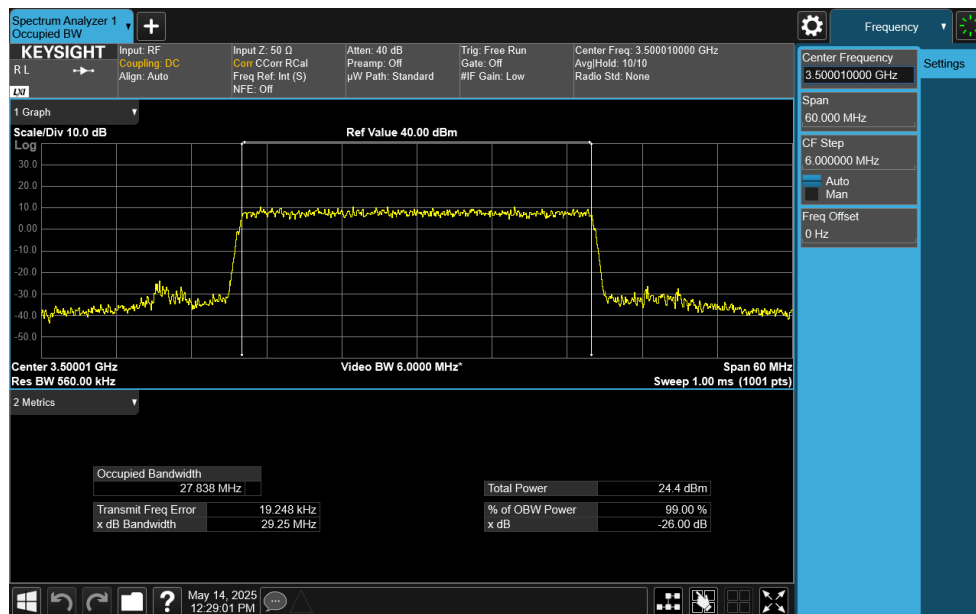
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-23. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 16-QAM - Full RB)



Plot 7-24. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 64-QAM - Full RB)

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Plot 7-25. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 256-QAM - Full RB)

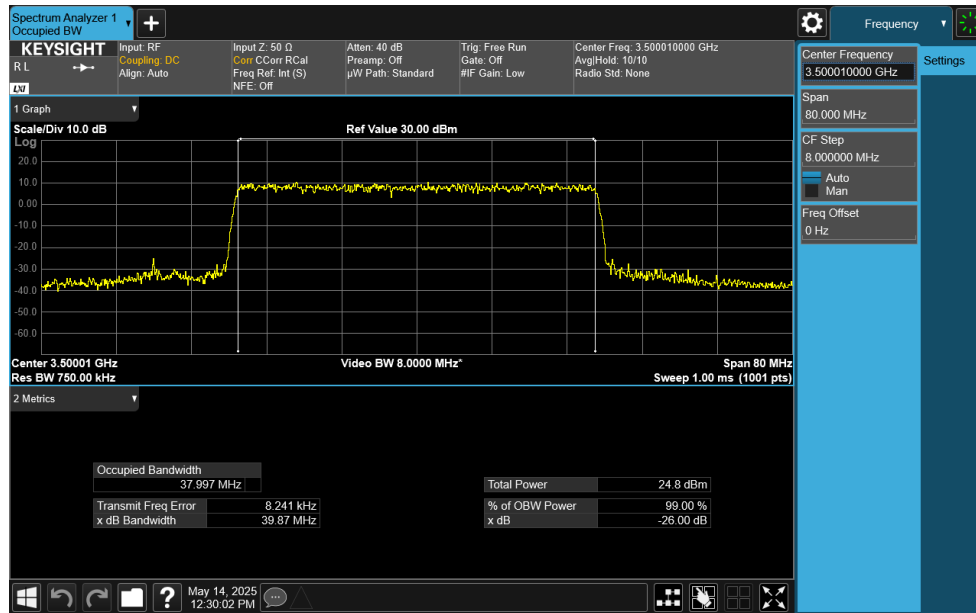


Plot 7-26. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

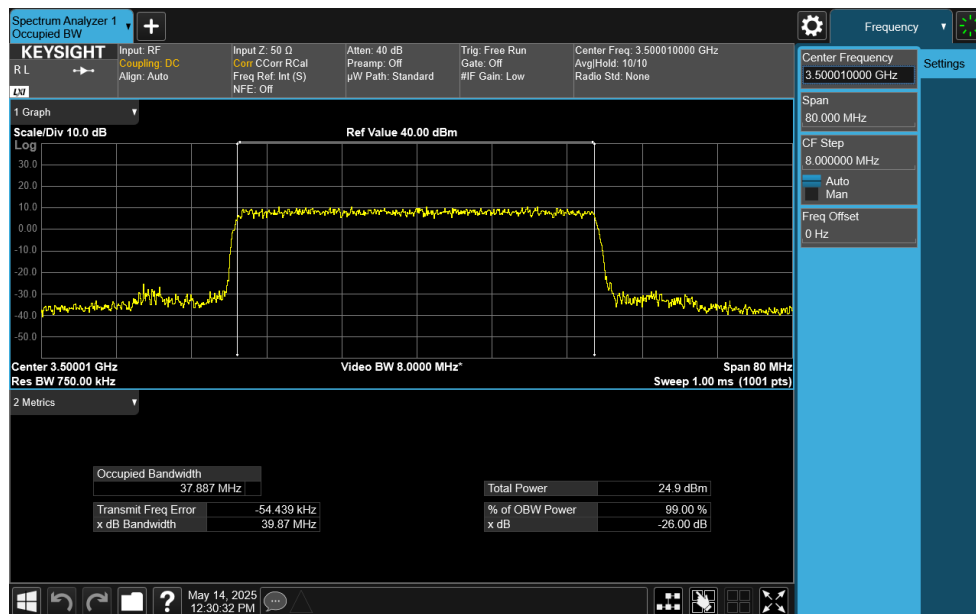
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-27. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM QPSK - Full RB)

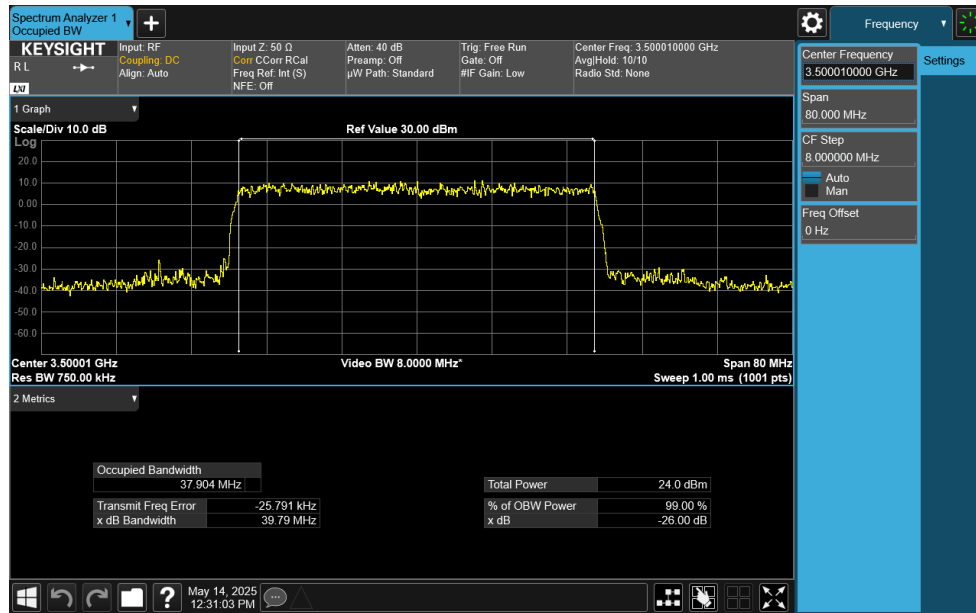


Plot 7-28. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 16-QAM - Full RB)

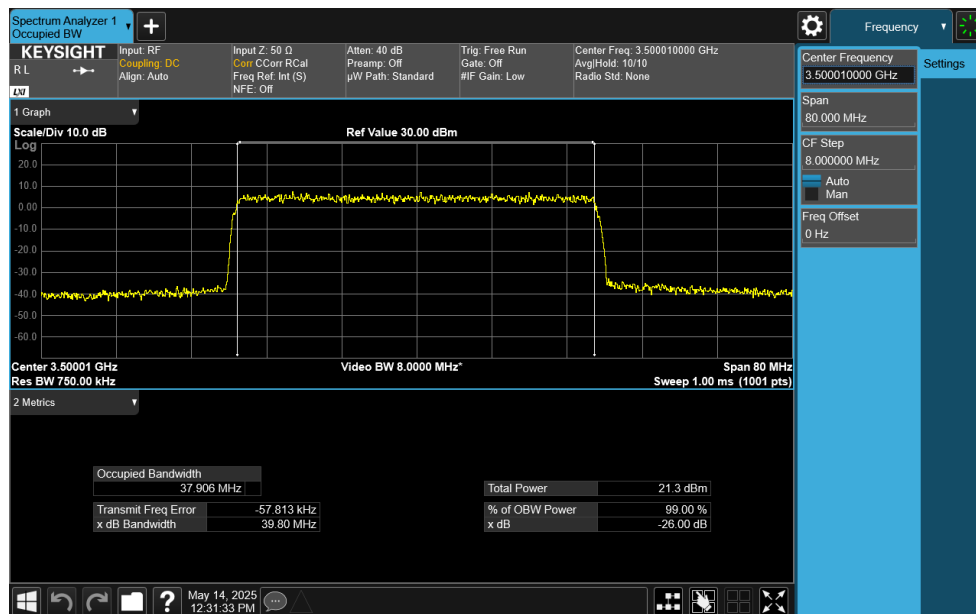
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 30 of 257

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Plot 7-29. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 64-QAM - Full RB)

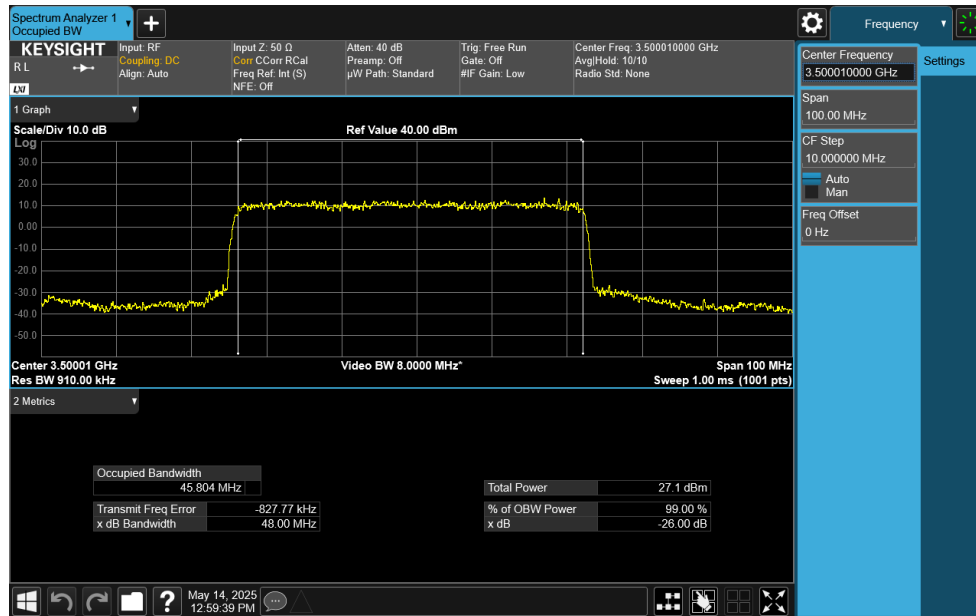


Plot 7-30. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 256-QAM - Full RB)

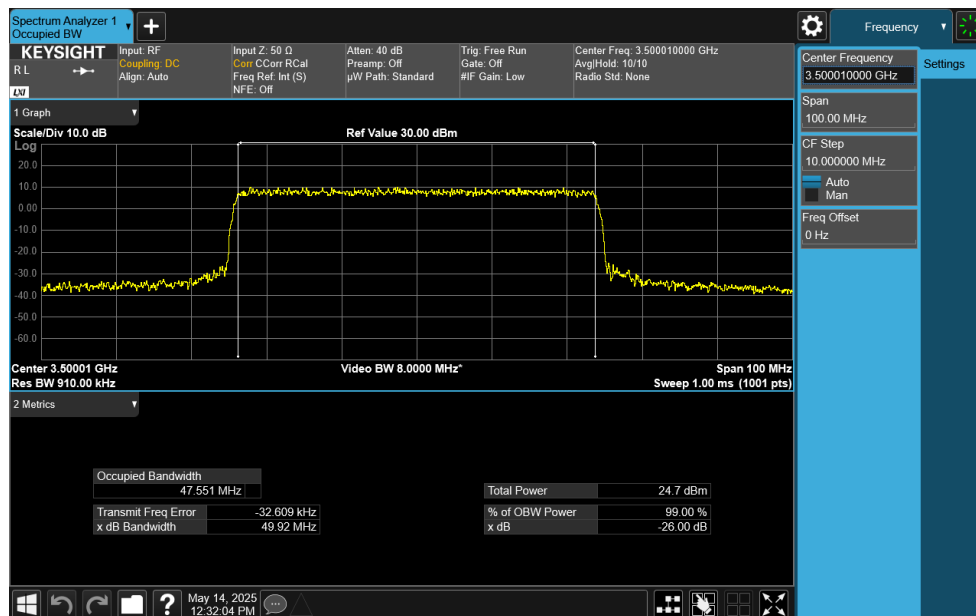
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 31 of 257

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Plot 7-31. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-32. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM QPSK - Full RB)

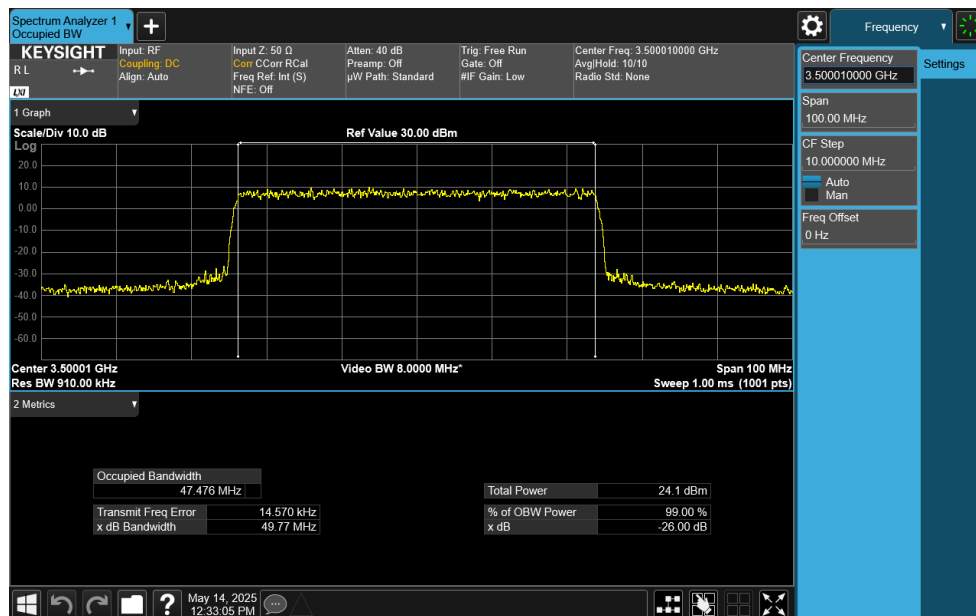
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 32 of 257

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Plot 7-33. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 16-QAM - Full RB)

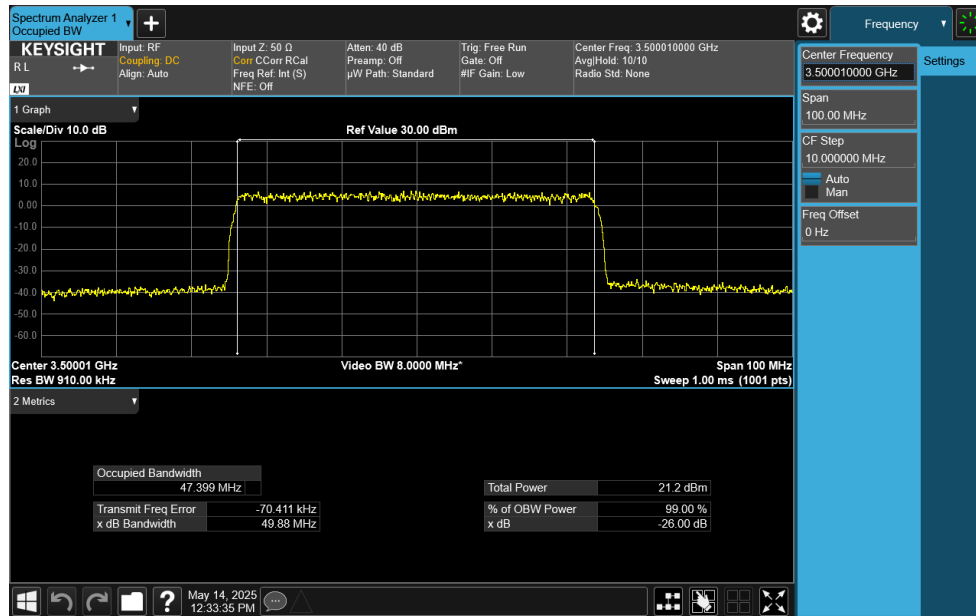


Plot 7-34. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 64-QAM - Full RB)

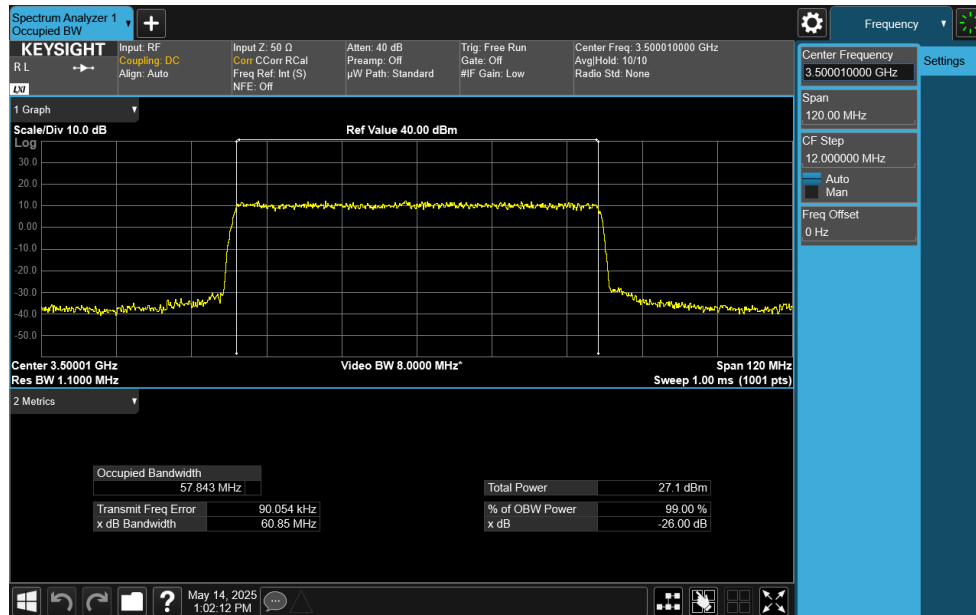
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 33 of 257

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Plot 7-35. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 256-QAM - Full RB)

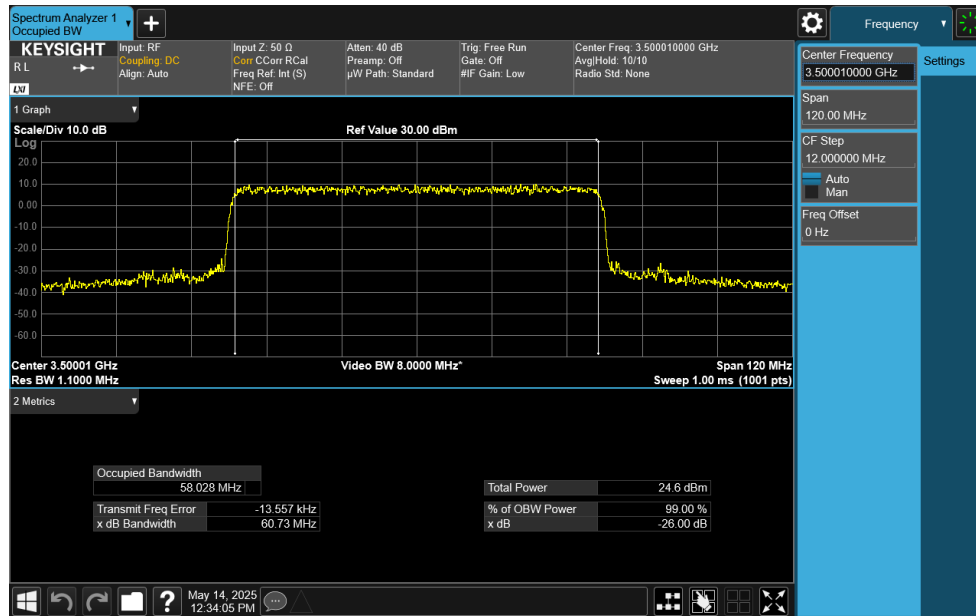


Plot 7-36. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

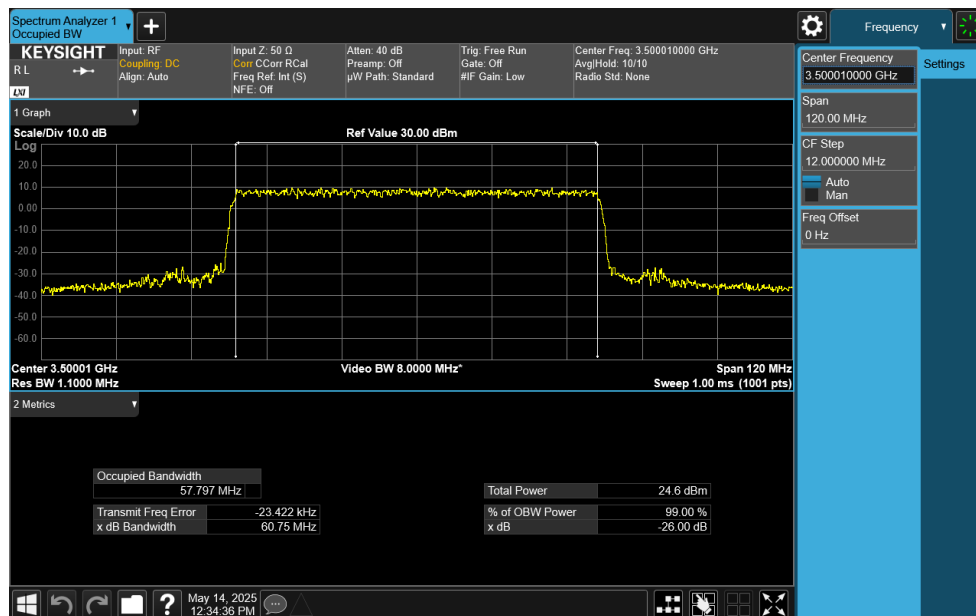
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 34 of 257

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Plot 7-37. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM QPSK - Full RB)

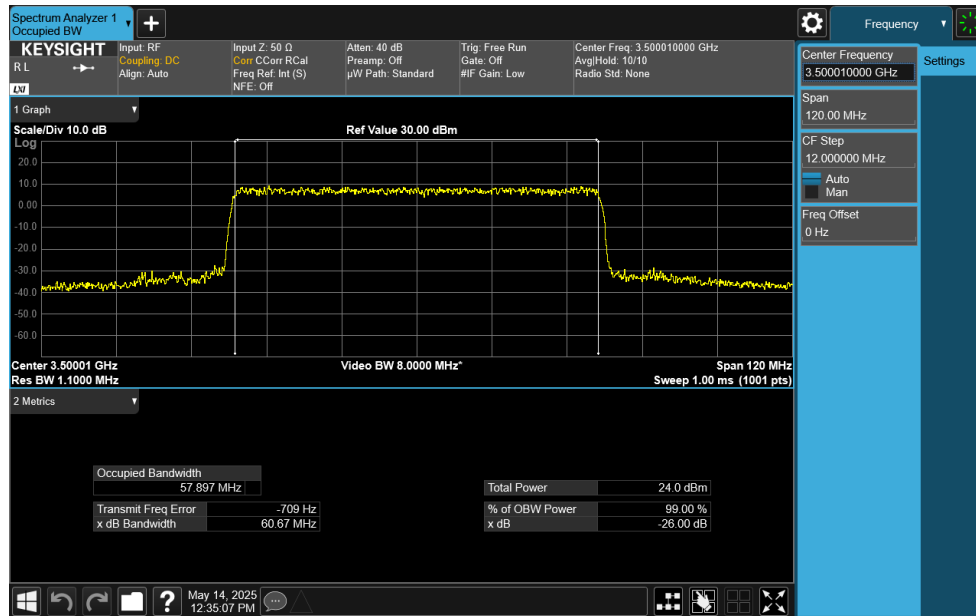


Plot 7-38. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 16-QAM - Full RB)

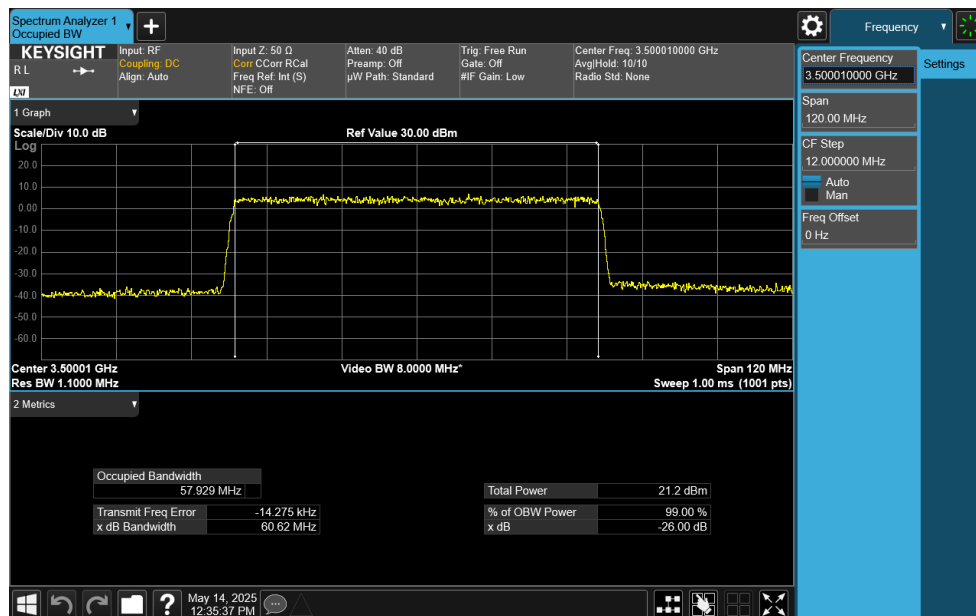
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 35 of 257

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Plot 7-39. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 64-QAM - Full RB)

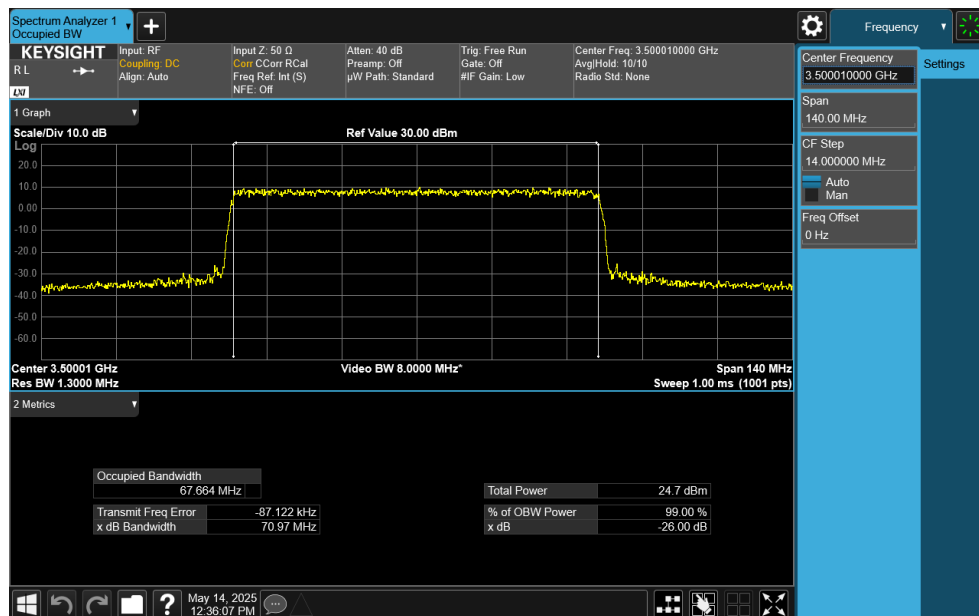
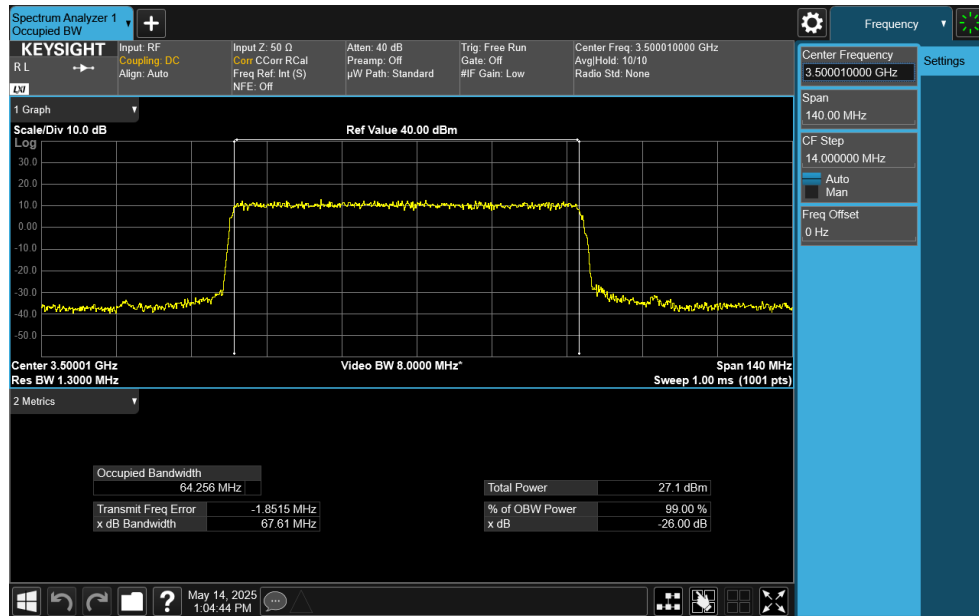


Plot 7-40. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device
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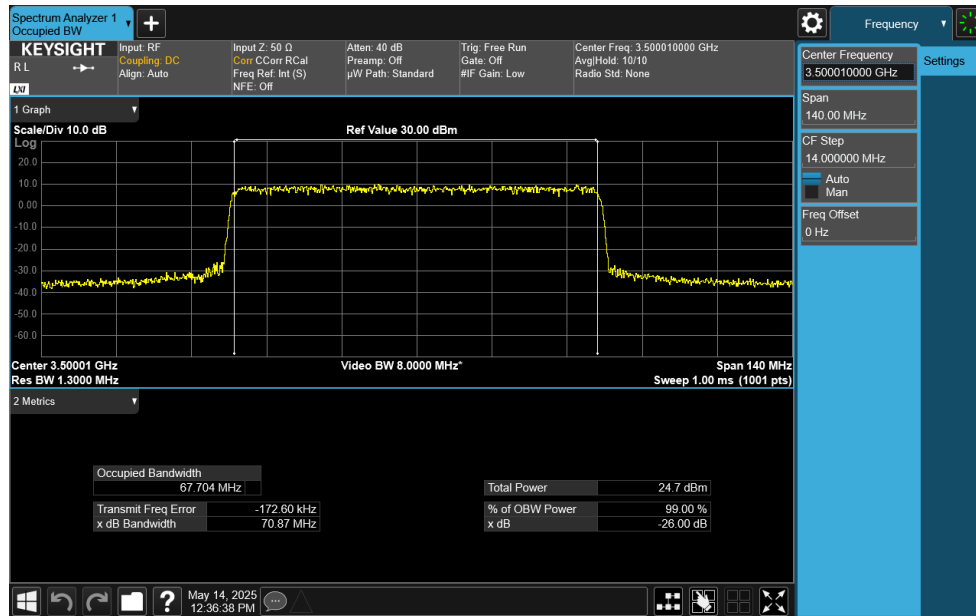
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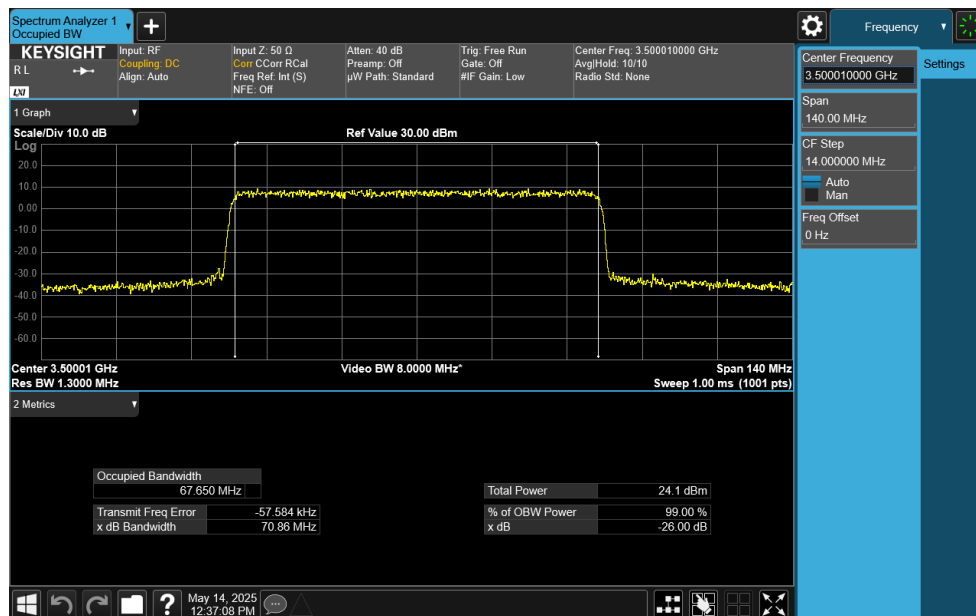
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device
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Plot 7-43. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 16-QAM - Full RB)

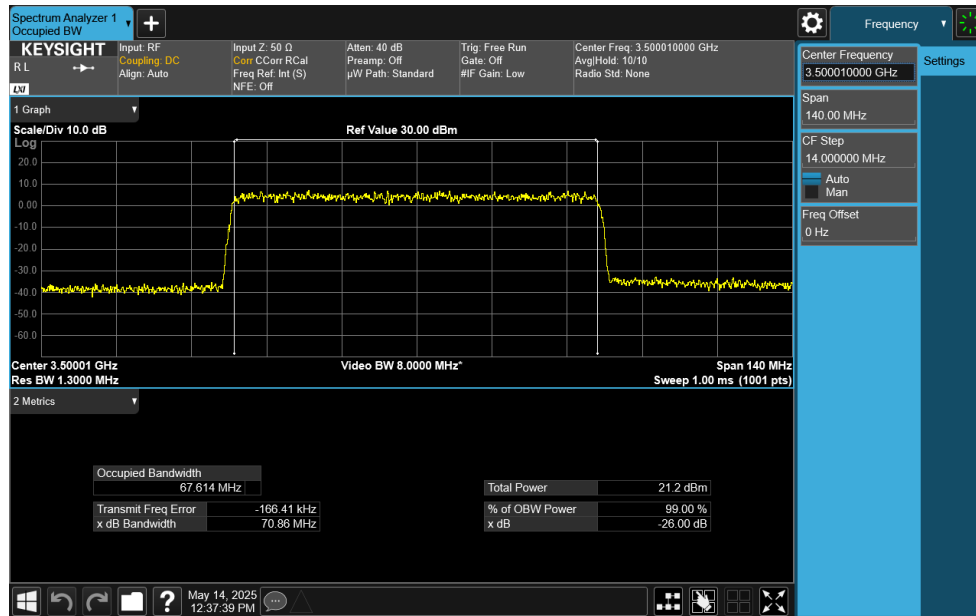


Plot 7-44. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 64-QAM - Full RB)

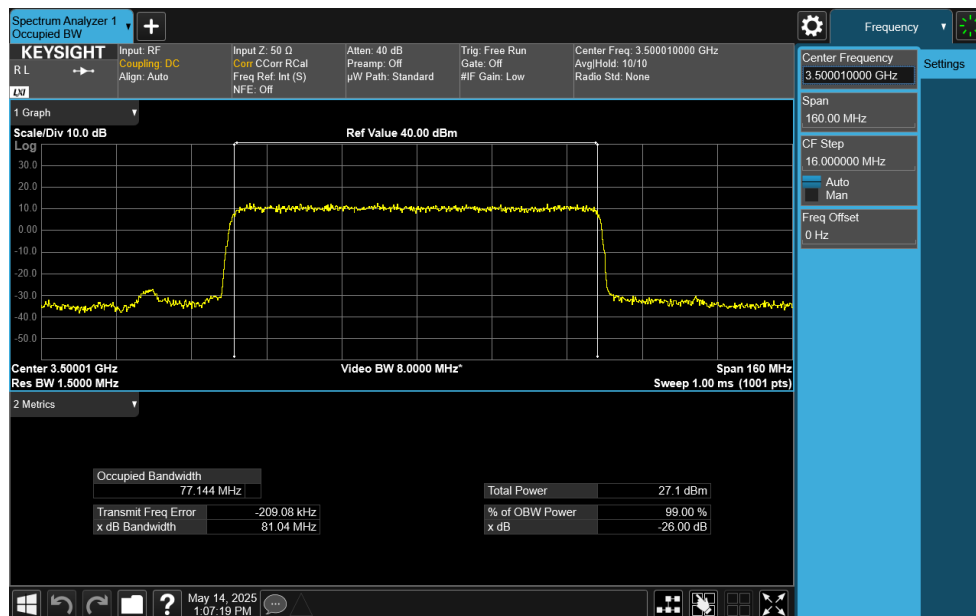
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 38 of 257

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Plot 7-45. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 256-QAM - Full RB)

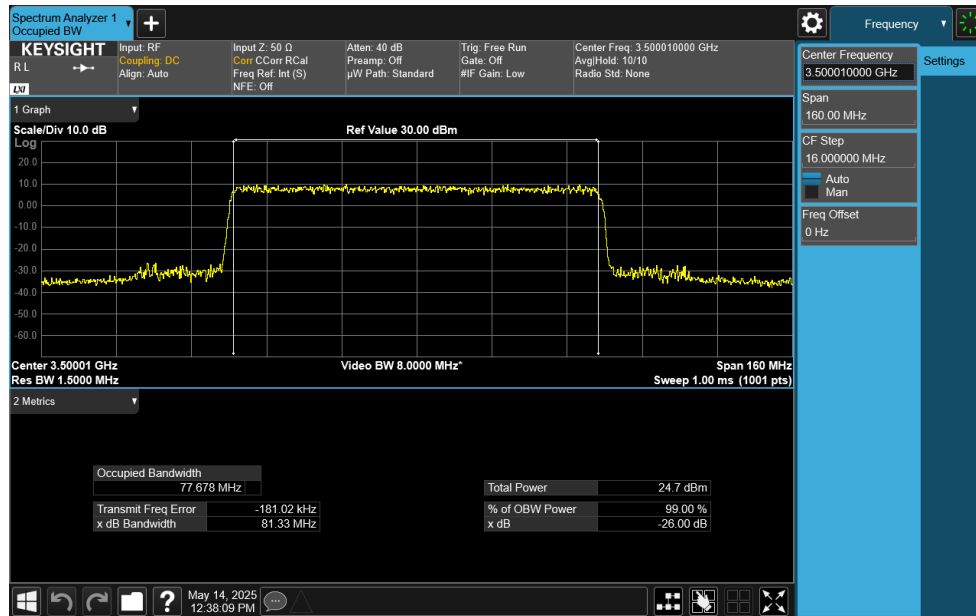


Plot 7-46. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

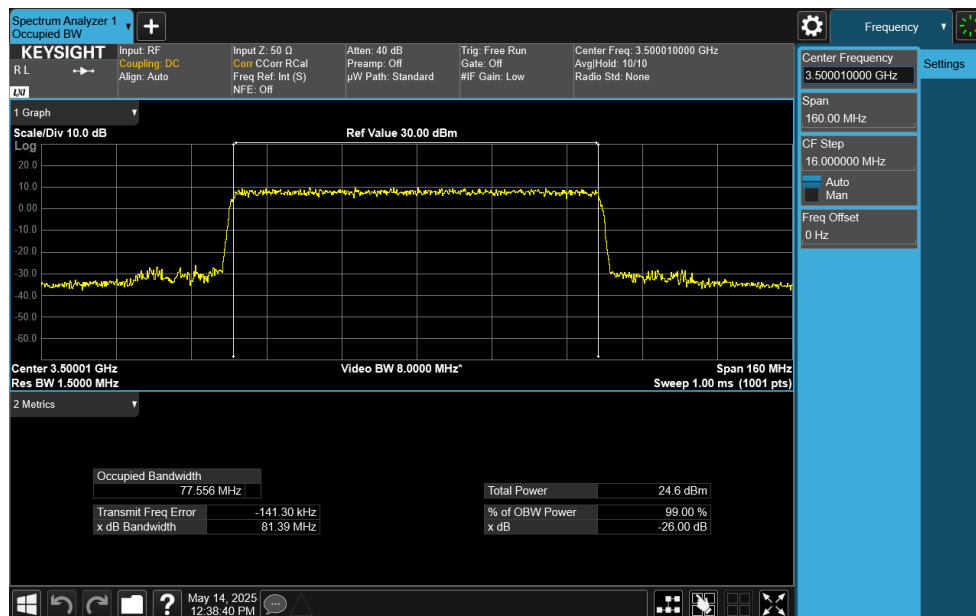
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device
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Plot 7-47. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM QPSK - Full RB)

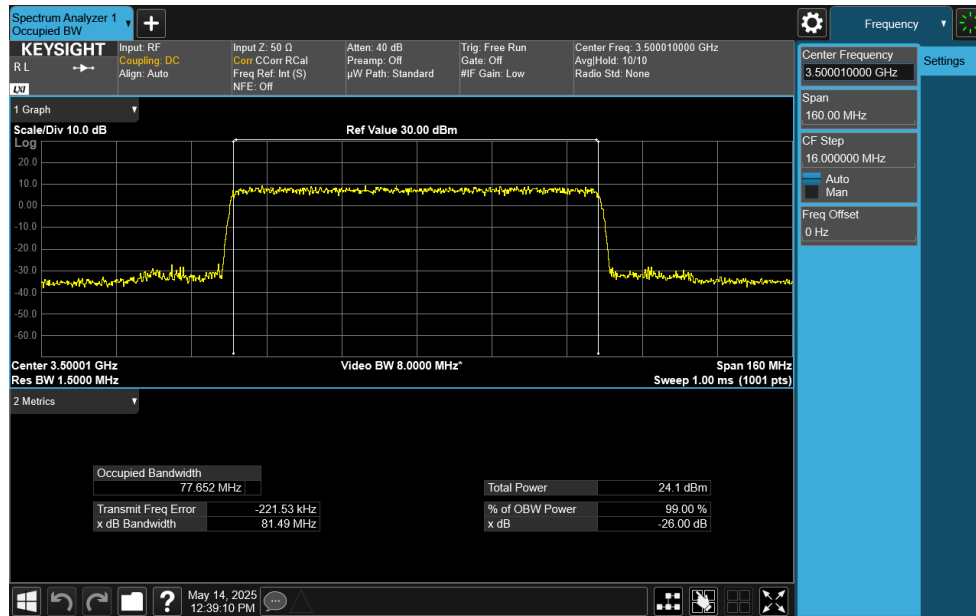


Plot 7-48. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 16-QAM - Full RB)

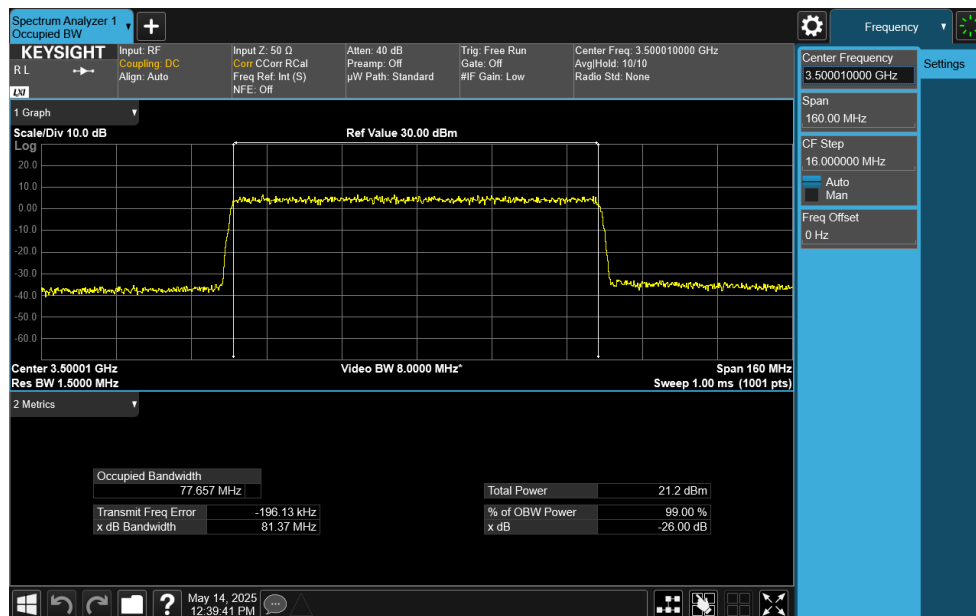
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 40 of 257

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Plot 7-49. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 64-QAM - Full RB)

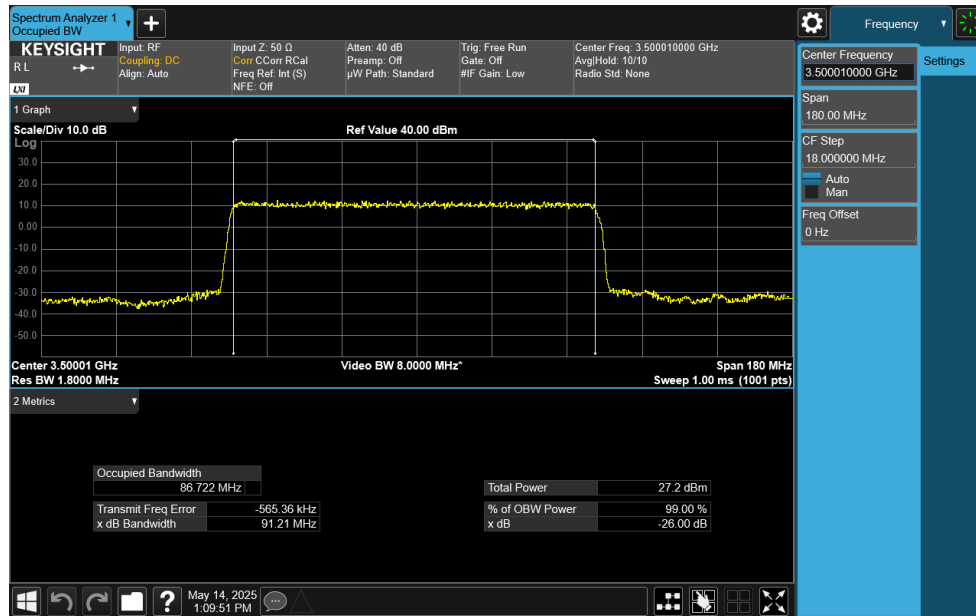


Plot 7-50. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 256-QAM - Full RB)

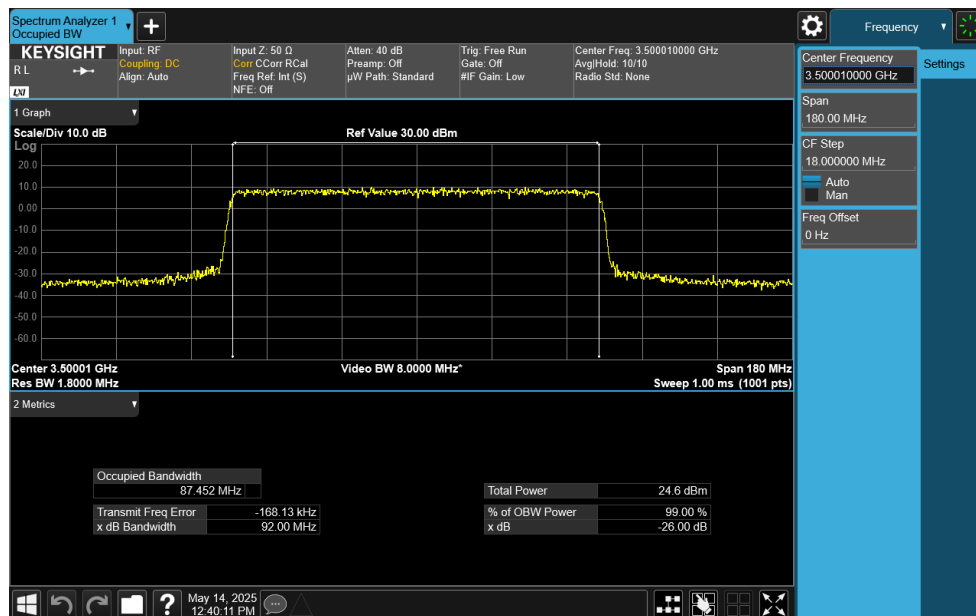
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-51. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

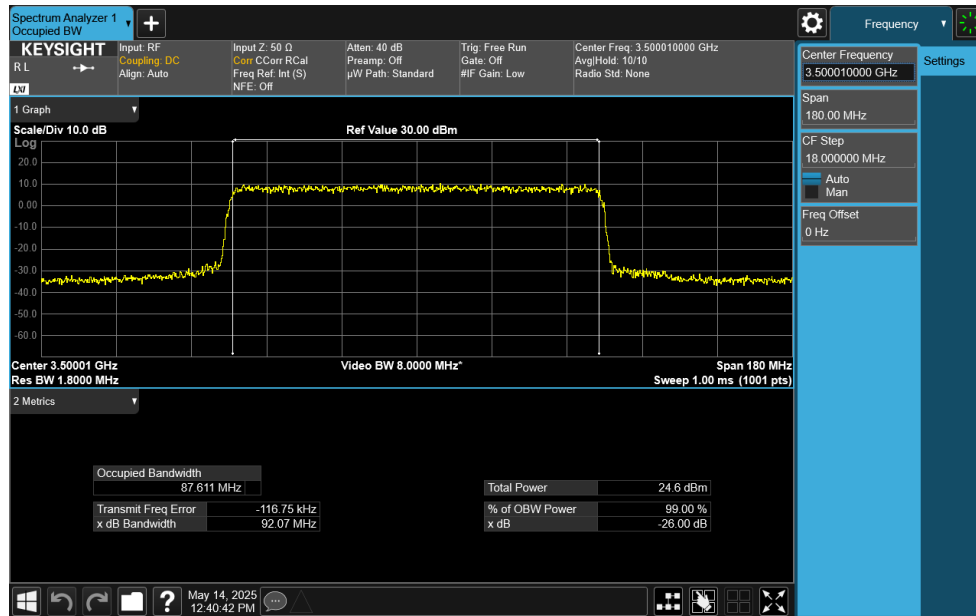


Plot 7-52. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM QPSK - Full RB)

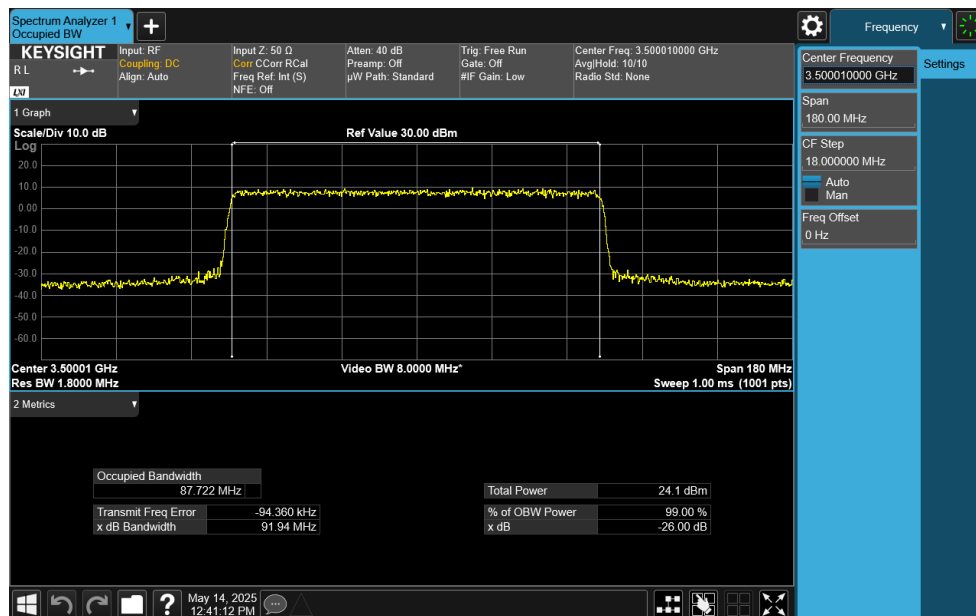
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-53. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 16-QAM - Full RB)

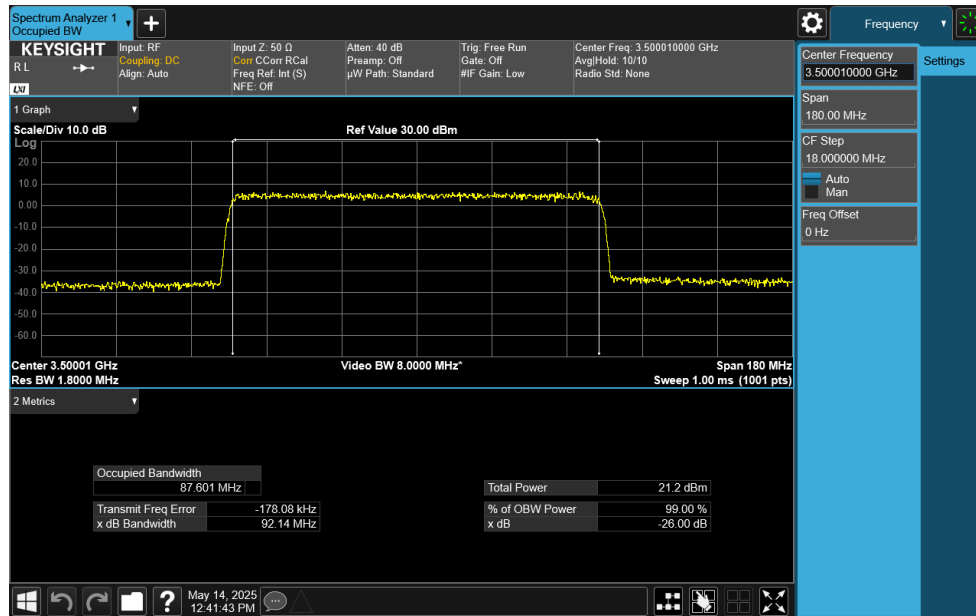


Plot 7-54. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 43 of 257

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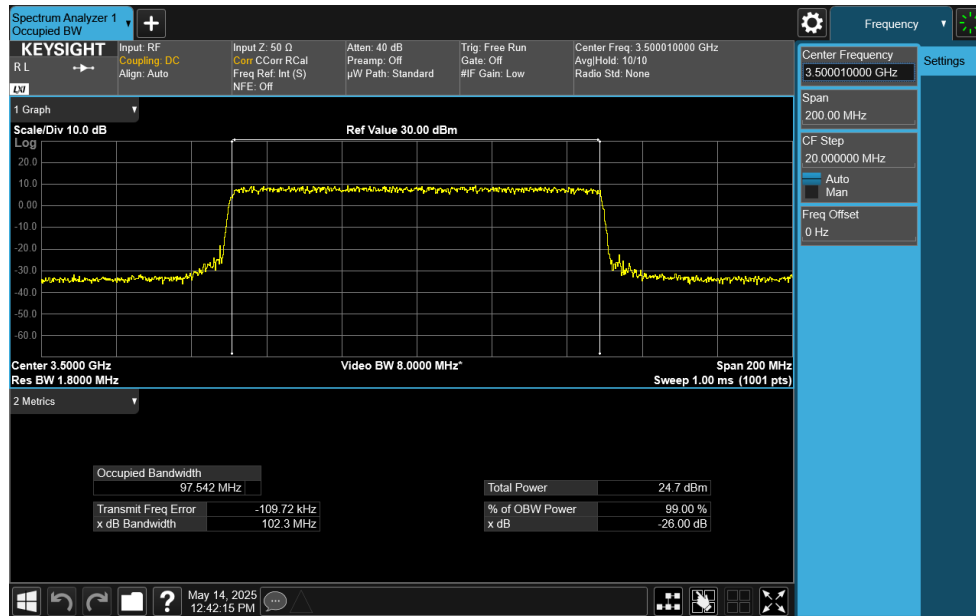
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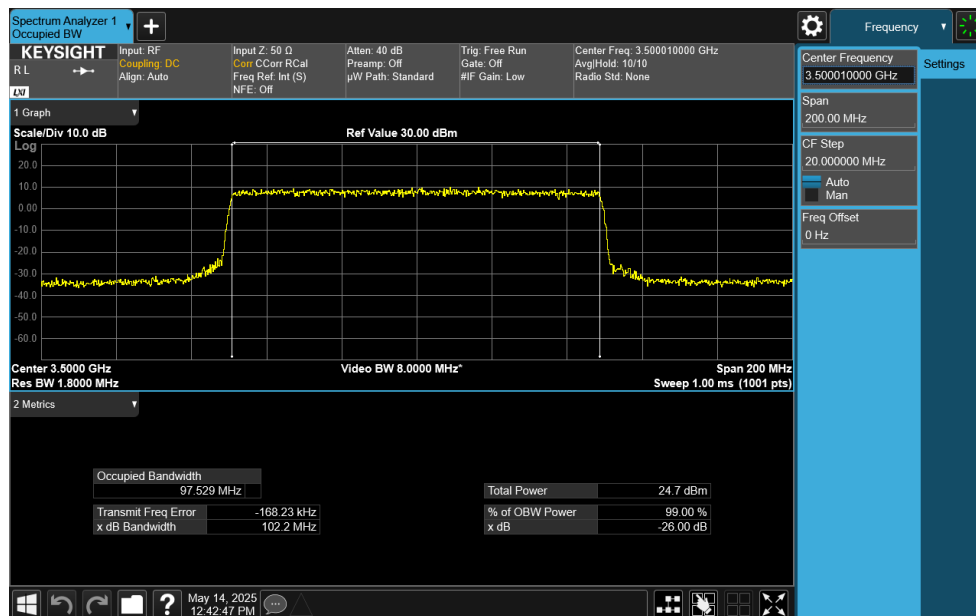
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device
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Plot 7-57. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM QPSK - Full RB)

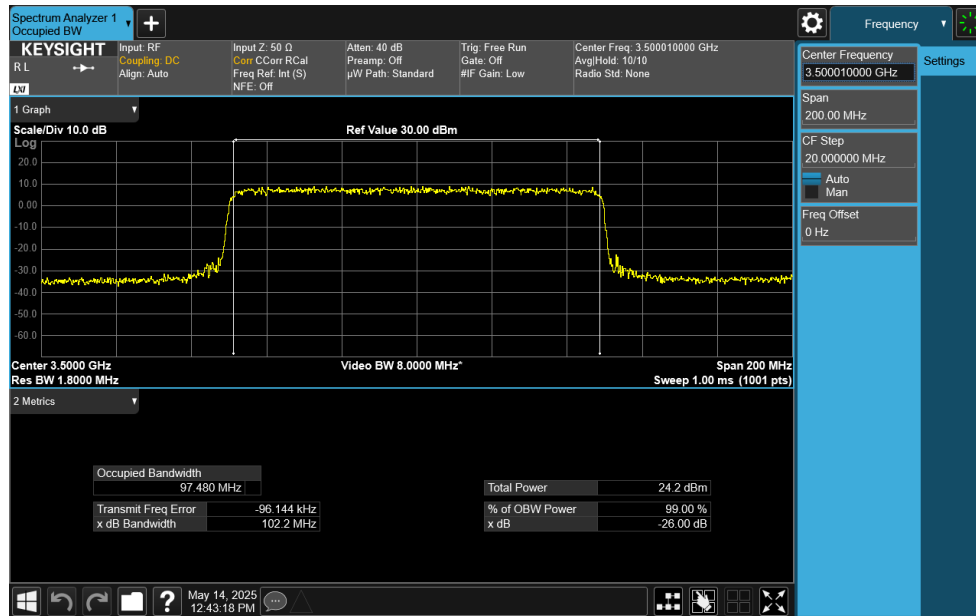


Plot 7-58. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 16-QAM - Full RB)

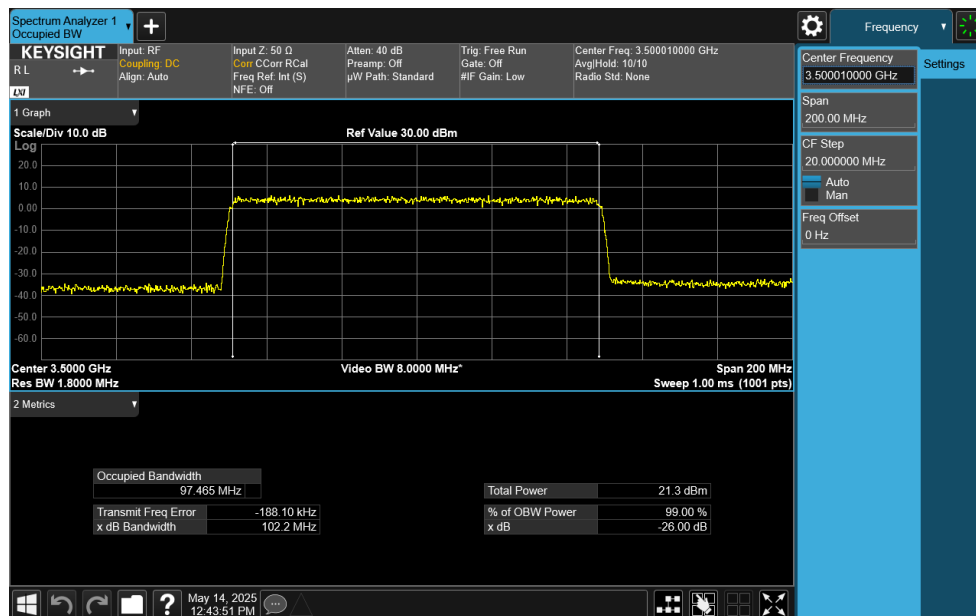
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 45 of 257

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Plot 7-59. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 64-QAM - Full RB)



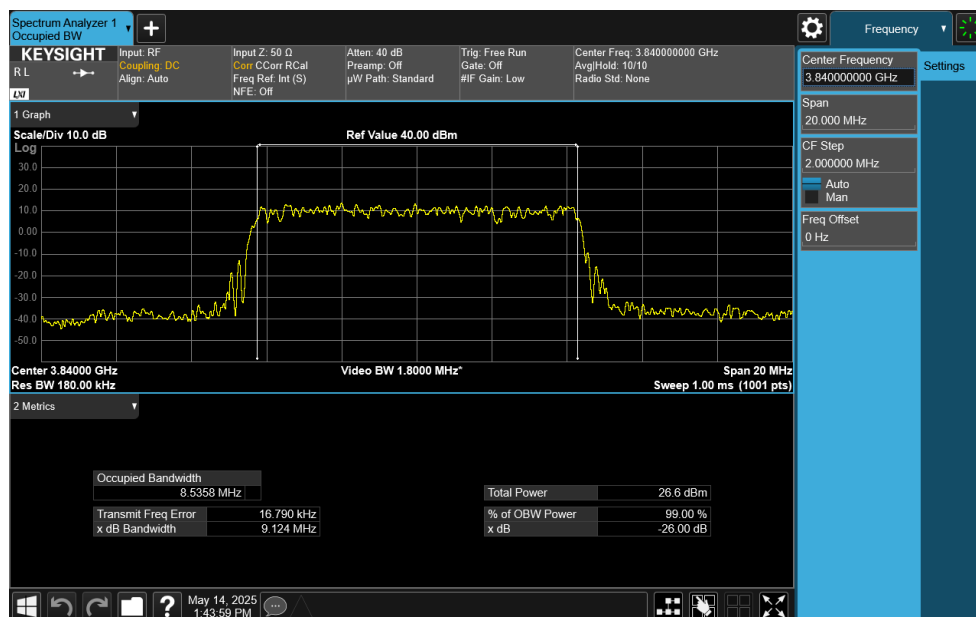
Plot 7-60. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n77 C-Band



Plot 7-61. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

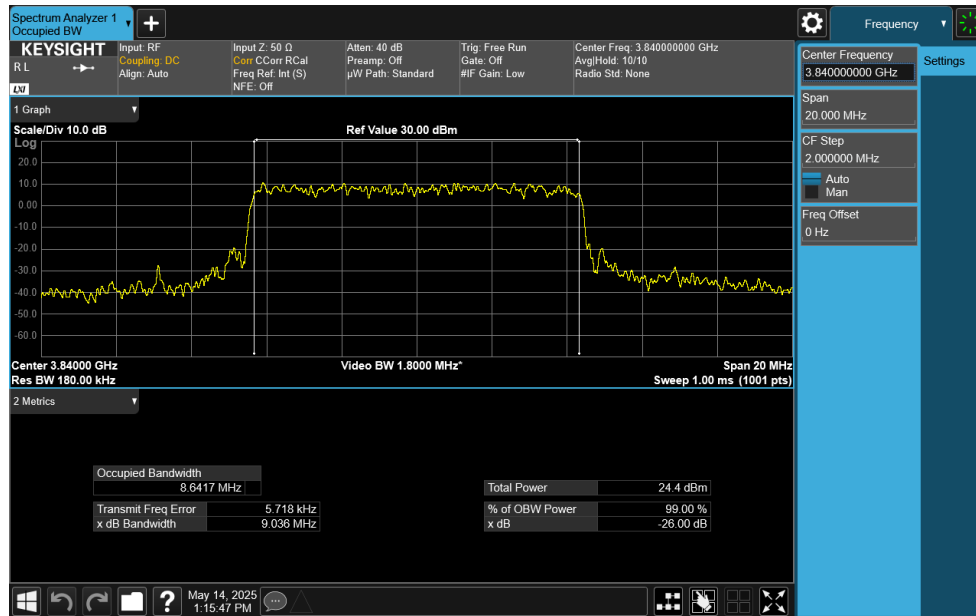


Plot 7-62. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-63. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 16-QAM - Full RB)

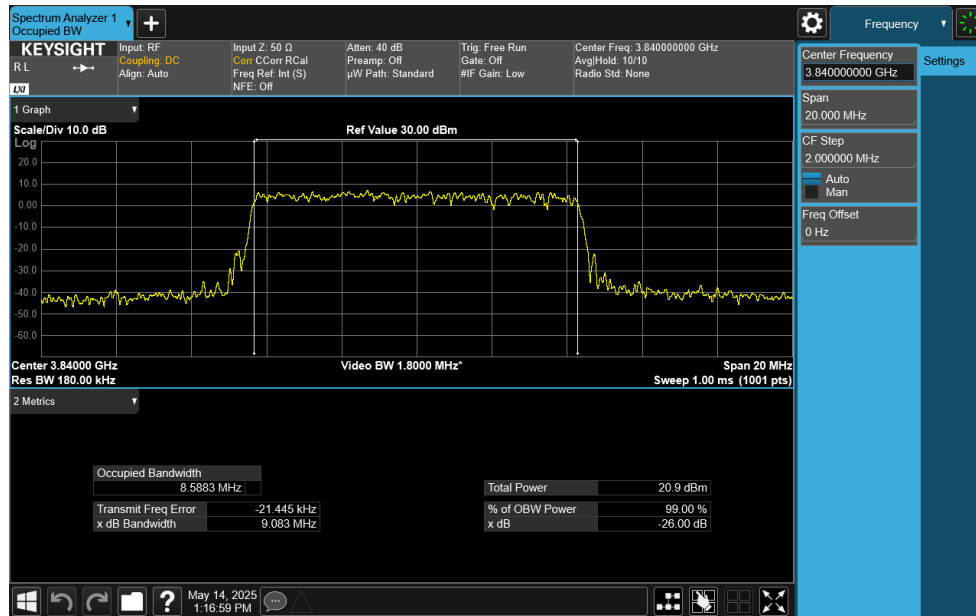


Plot 7-64. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 64-QAM - Full RB)

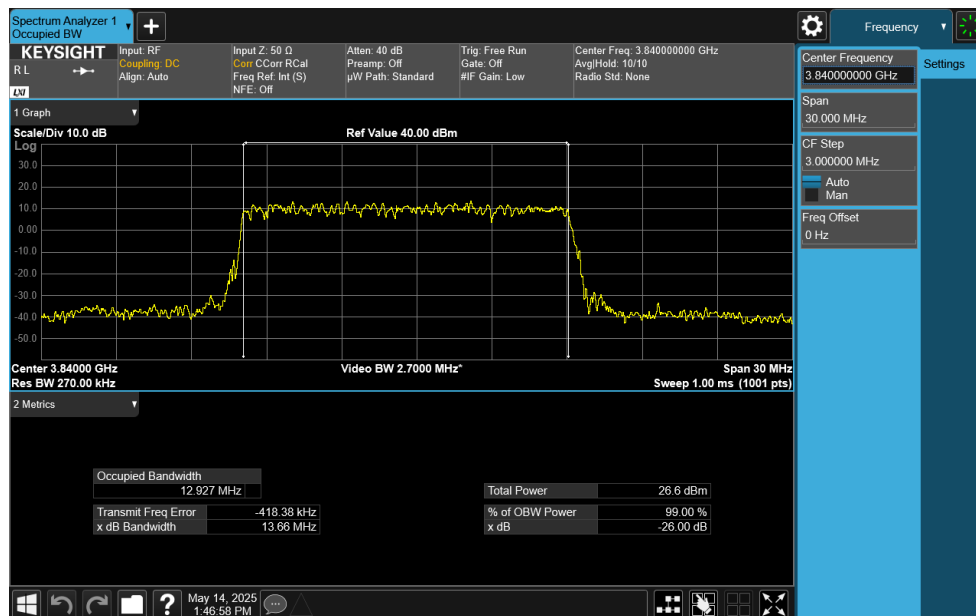
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 48 of 257

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Plot 7-65. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 256-QAM - Full RB)

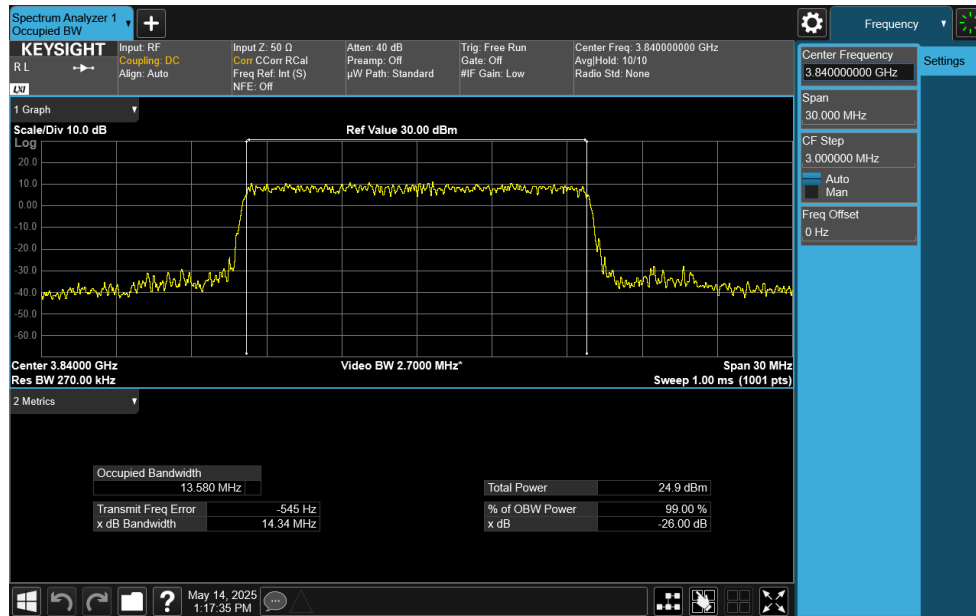


Plot 7-66. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

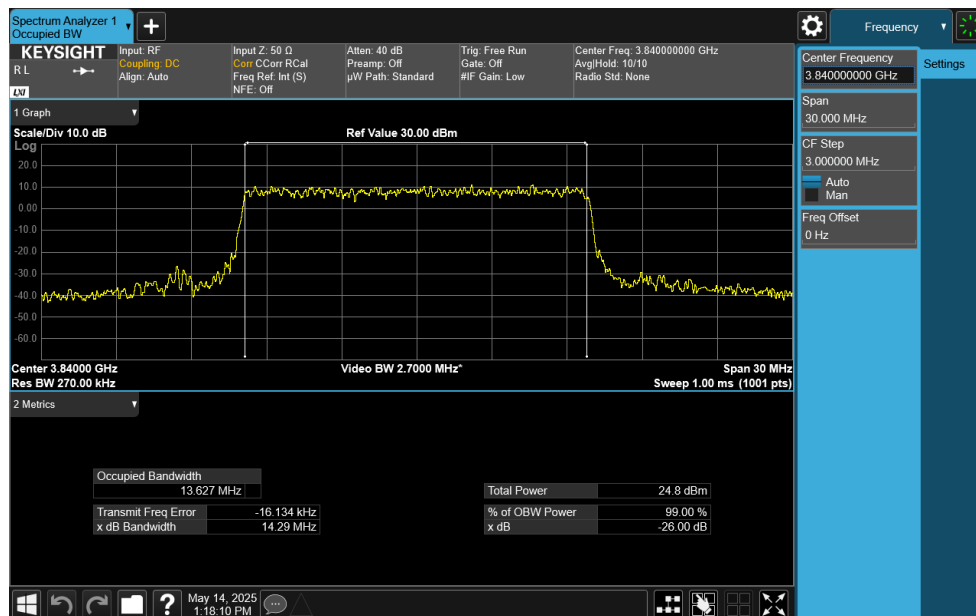
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-67. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM QPSK - Full RB)

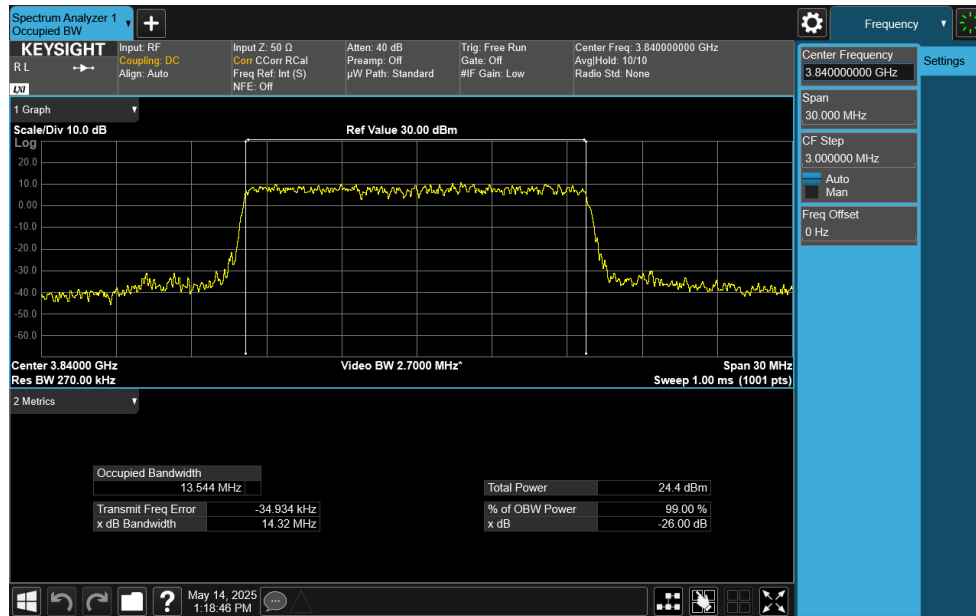


Plot 7-68. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 16-QAM - Full RB)

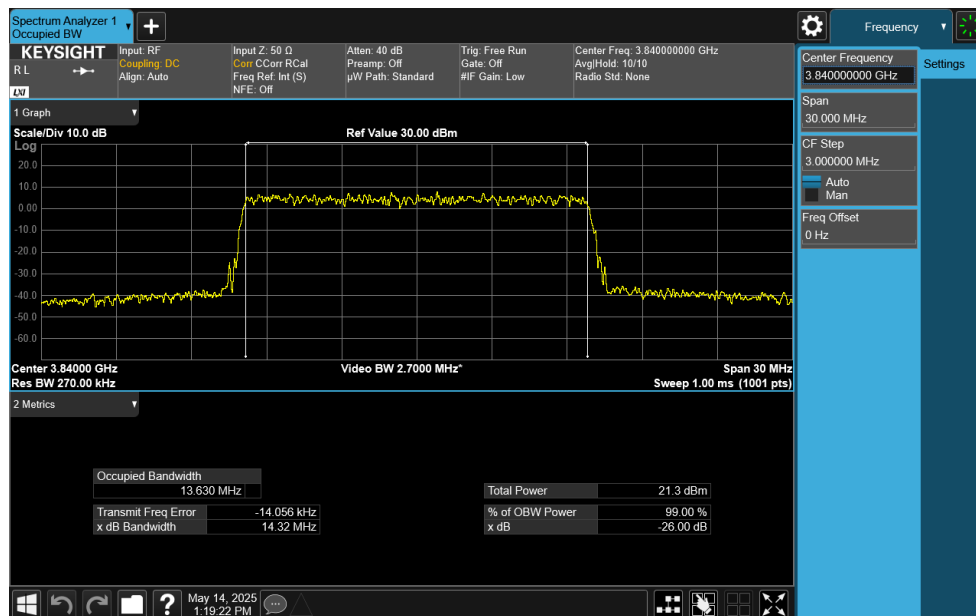
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 50 of 257

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Plot 7-69. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 64-QAM - Full RB)

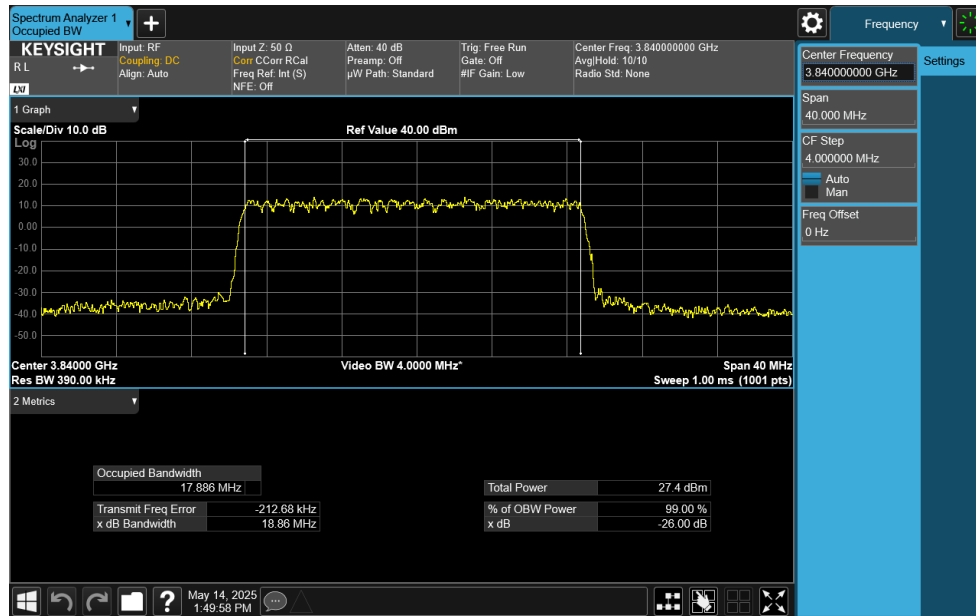


Plot 7-70. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 256-QAM - Full RB)

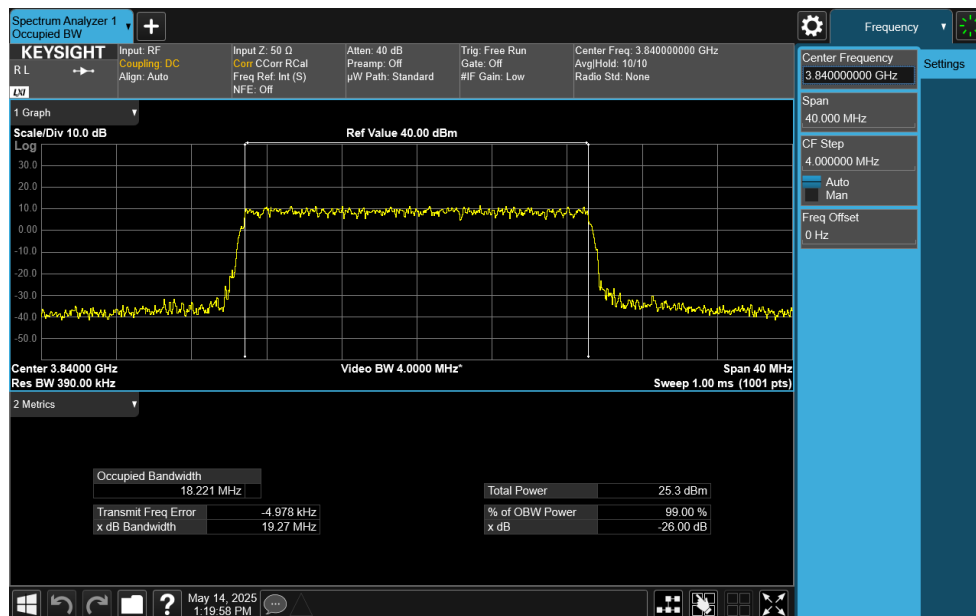
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

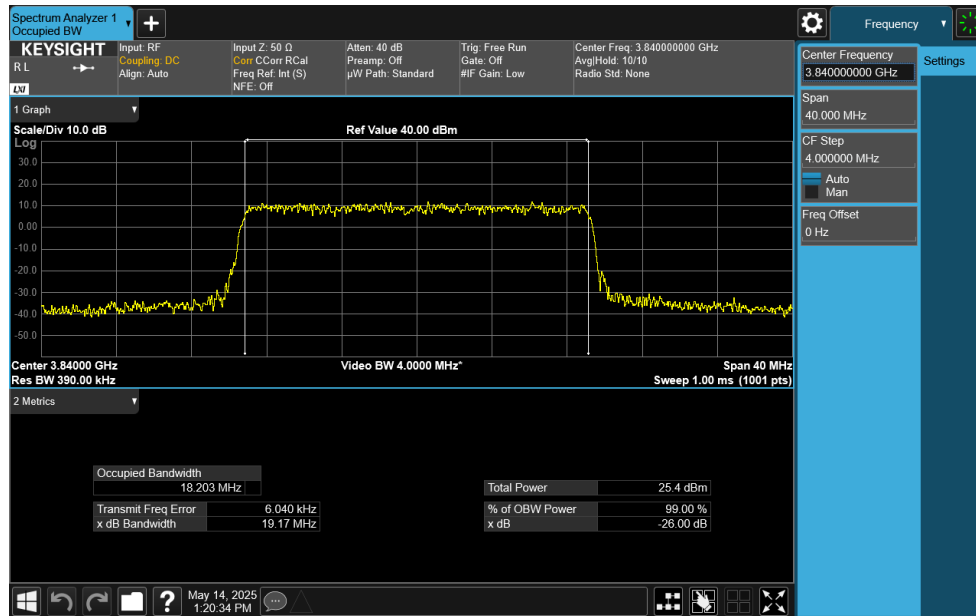


Plot 7-72. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM QPSK - Full RB)

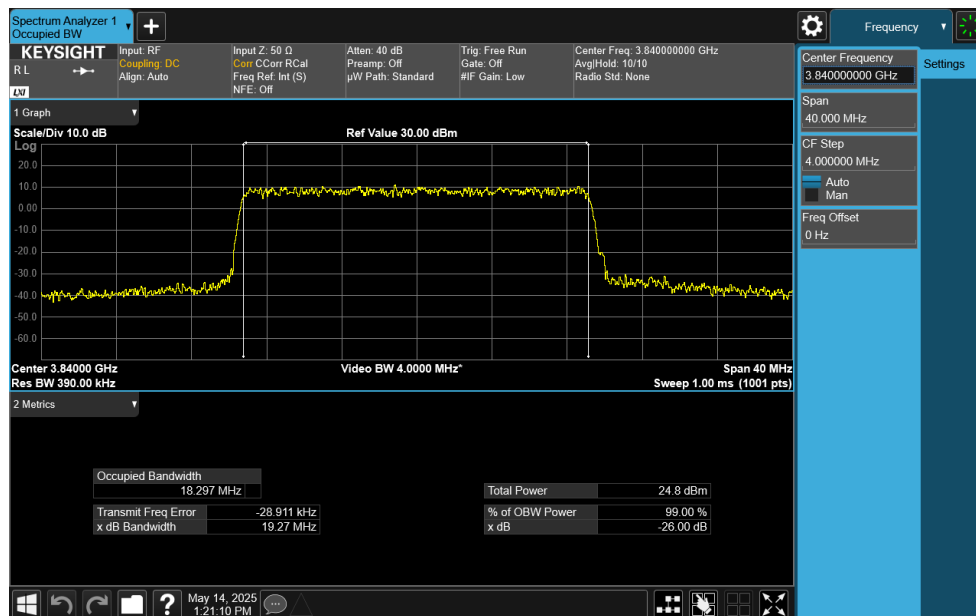
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 52 of 257

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Plot 7-73. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM 16-QAM - Full RB)

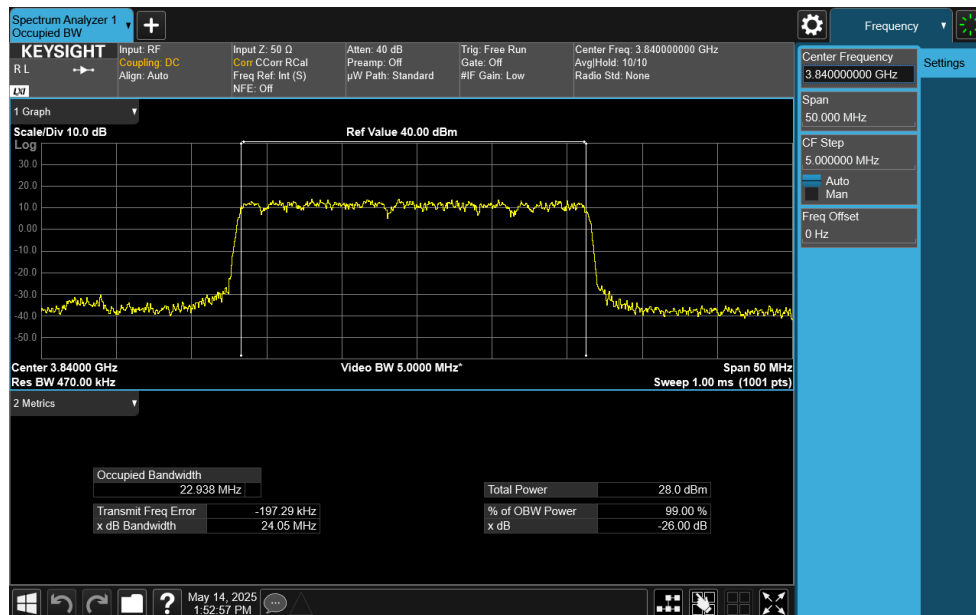
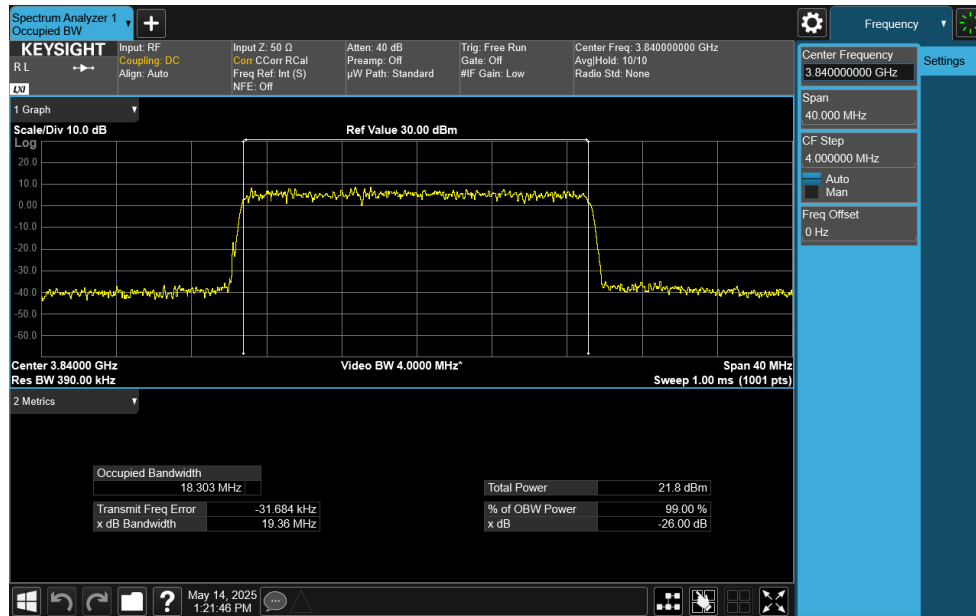


Plot 7-74. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM 64-QAM - Full RB)

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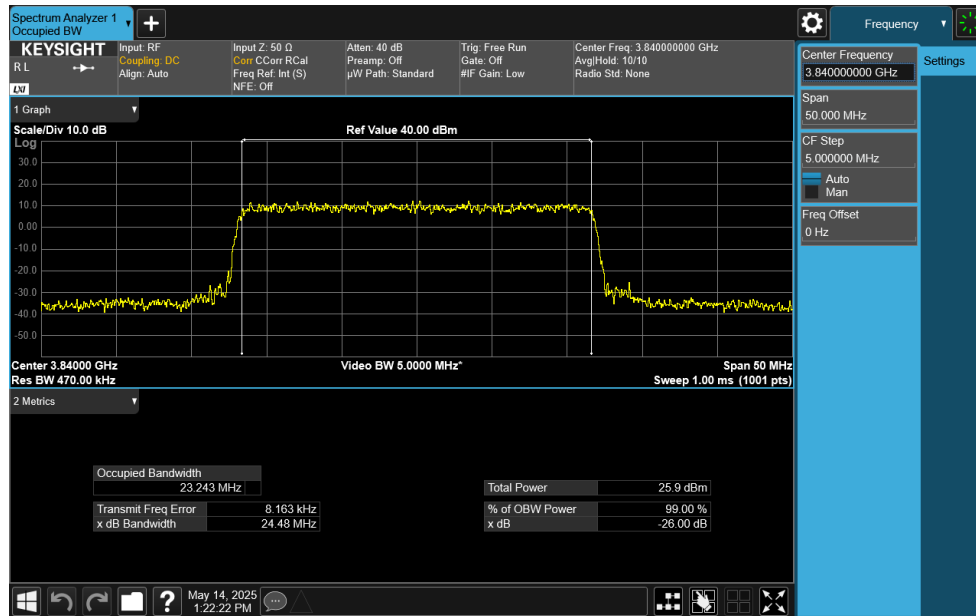
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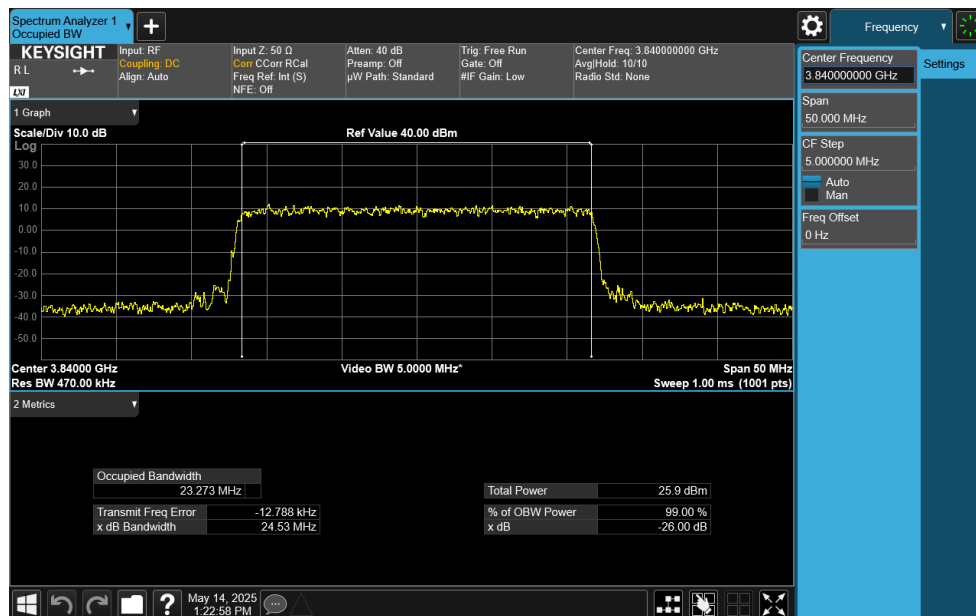
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 54 of 257

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Plot 7-77. Occupied Bandwidth Plot (NR Band n77 C-Band - 25MHz CP-OFDM QPSK - Full RB)

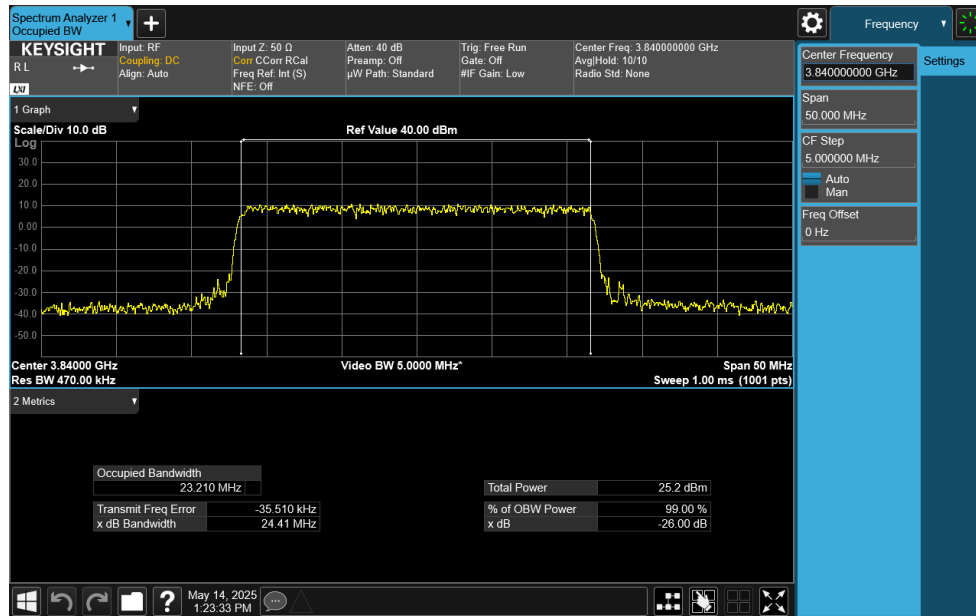


Plot 7-78. Occupied Bandwidth Plot (NR Band n77 C-Band - 25MHz CP-OFDM 16-QAM - Full RB)

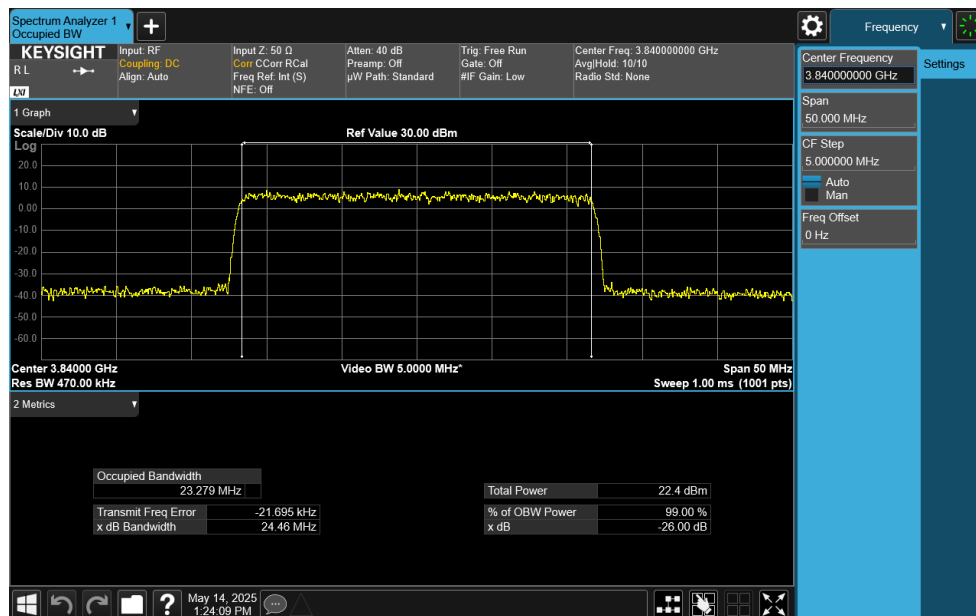
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 55 of 257

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Plot 7-79. Occupied Bandwidth Plot (NR Band n77 C-Band - 25MHz CP-OFDM 64-QAM - Full RB)

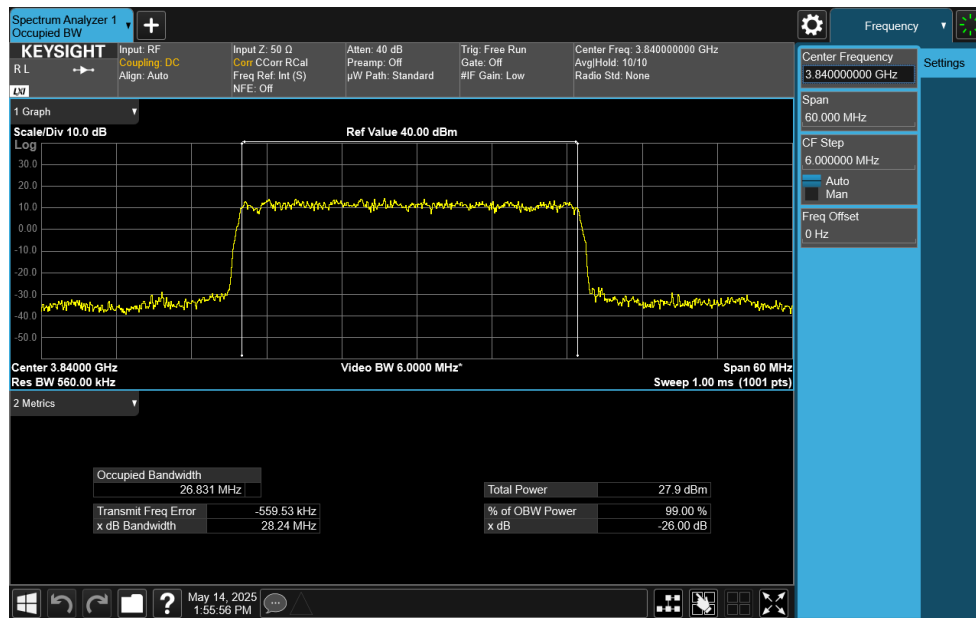


Plot 7-80. Occupied Bandwidth Plot (NR Band n77 C-Band - 25MHz CP-OFDM 256-QAM - Full RB)

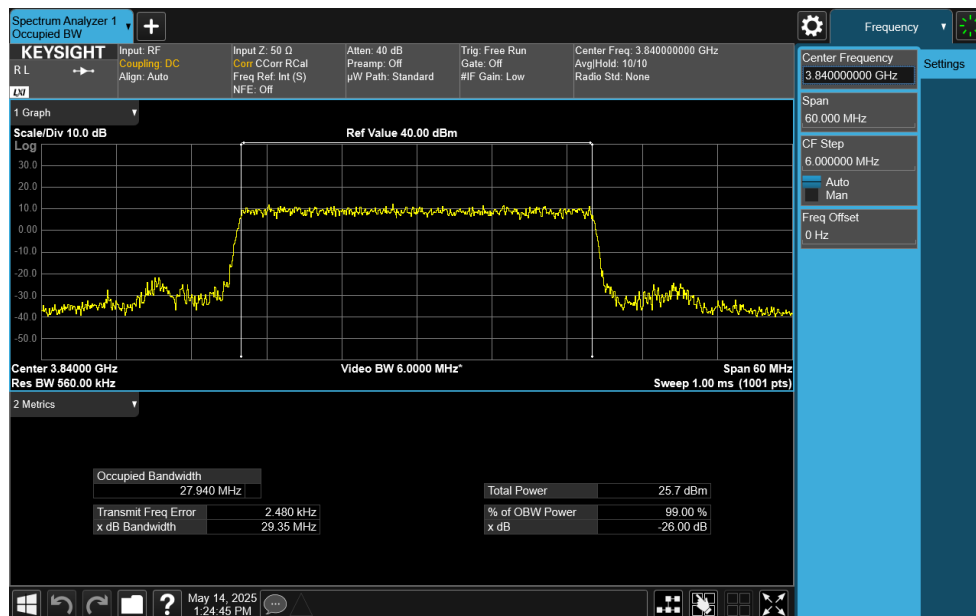
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-11.BCG	Test Dates: 5/9/2025 - 7/7/2025	EUT Type: Tablet Device	Page 56 of 257

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Plot 7-81. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

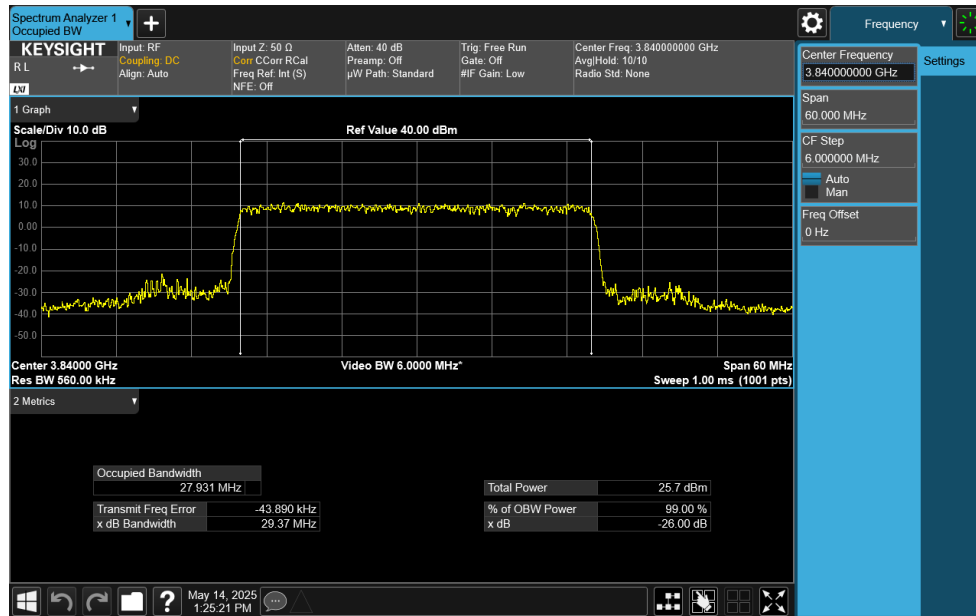


Plot 7-82. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM QPSK - Full RB)

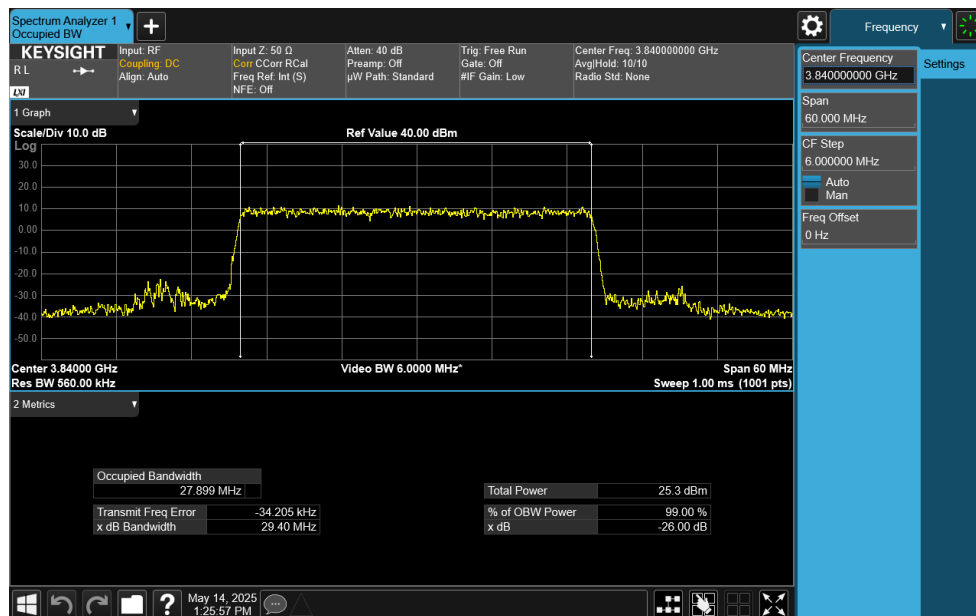
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-83. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 16-QAM - Full RB)

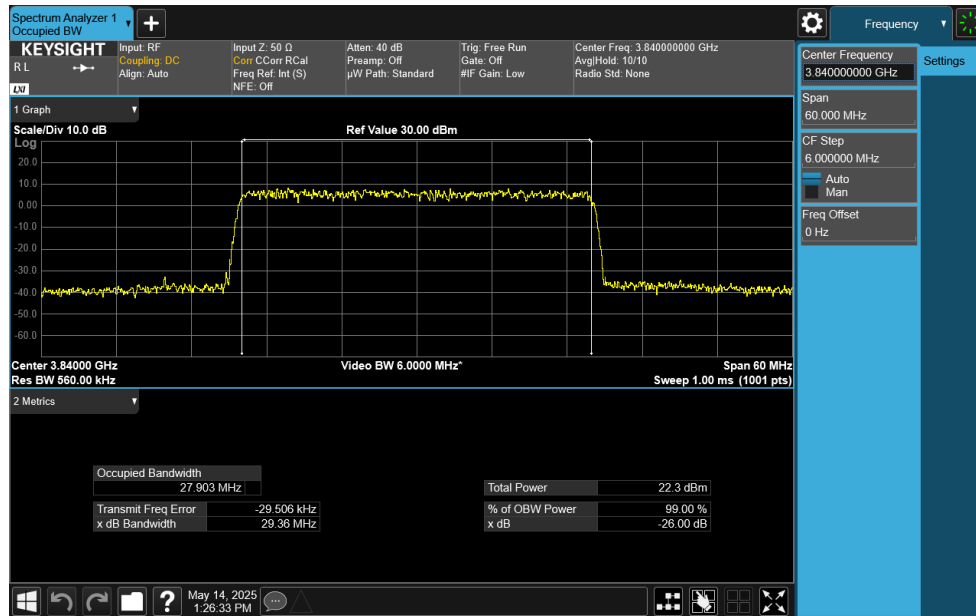


Plot 7-84. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 64-QAM - Full RB)

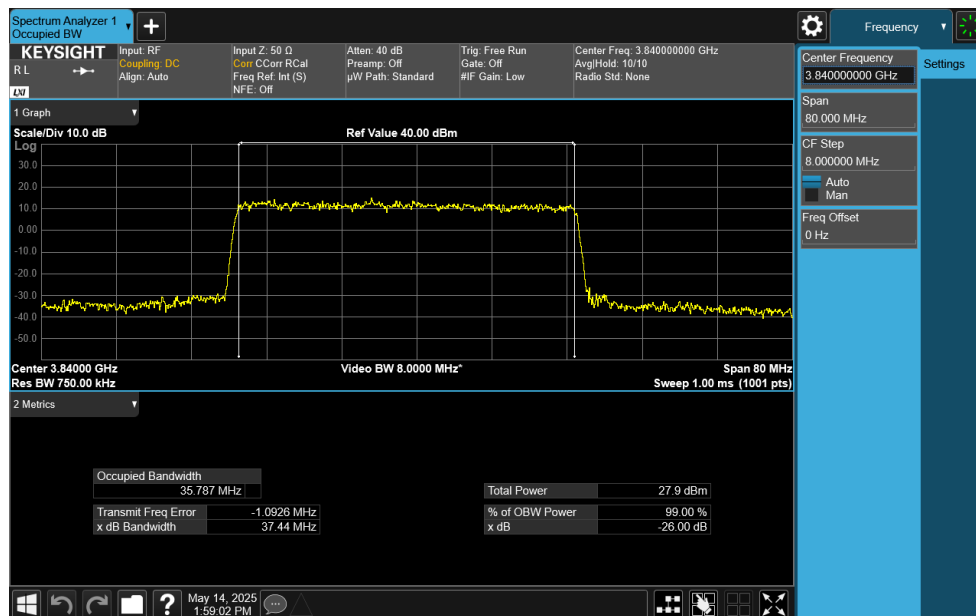
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-85. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 256-QAM - Full RB)

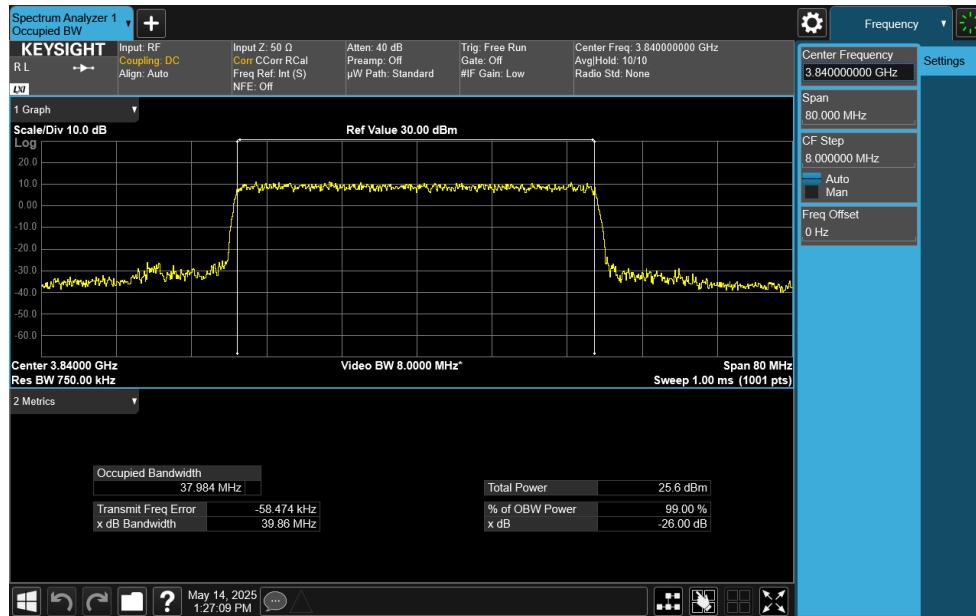


Plot 7-86. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

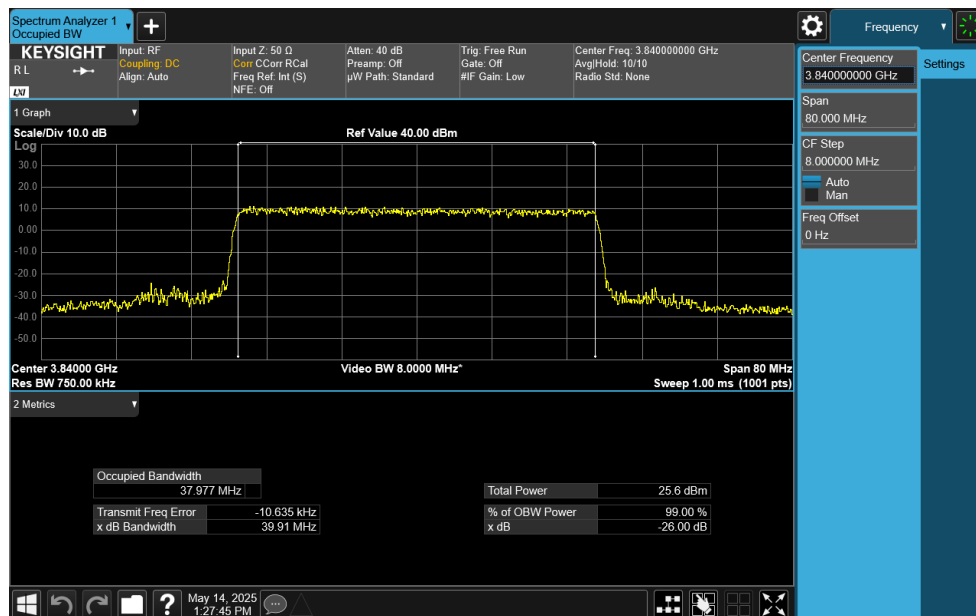
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-87. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM QPSK - Full RB)

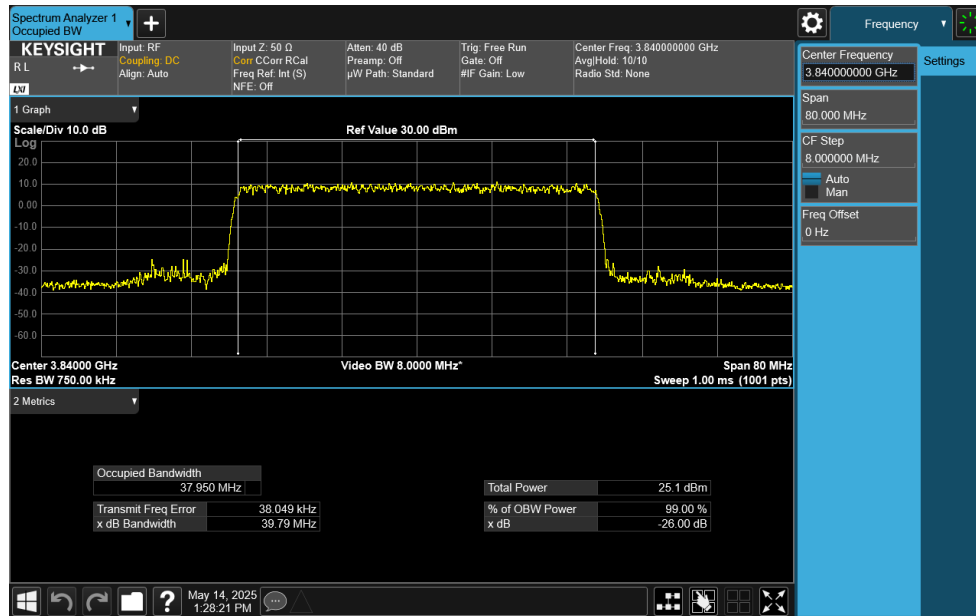


Plot 7-88. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 16-QAM - Full RB)

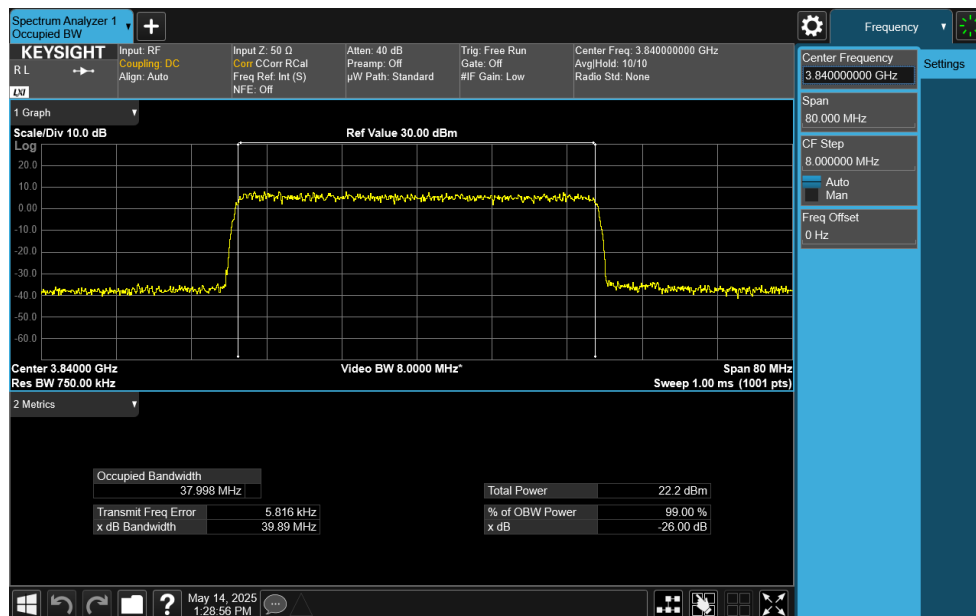
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-89. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 64-QAM - Full RB)



Plot 7-90. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 256-QAM - Full RB)

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