



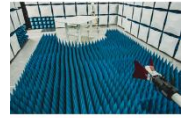
# Element Materials Technology

(formerly PCTEST)

18855 Adams Court, Morgan Hill, CA 95037 USA

Tel. 410.290.6652 / Fax 410.290.6654

<http://www.element.com>



## PART 27 MEASUREMENT REPORT

**Applicant Name:**

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

**Date of Testing:**

10/1/2023 - 3/20/2024

**Test Report Issue Date:**

4/3/2024

**Test Site/Location:**

Element Materials Technology, Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2311270070-11.BCG

**FCC ID:**

**BCGA2926**

**Applicant Name:**

**Apple Inc.**

**Application Type:**

Certification

**Model:**

A2926, A3007

**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

**Prepared by:** WKR0000006193

**Reviewed by:** WKR0000005805




<b>FCC ID:</b> BCGA2926	<b>element</b>	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270070-11.BCG	<b>Test Dates:</b> 10/1/2023 - 3/20/2024	<b>EUT Type:</b> Tablet Device	Page 1 of 265

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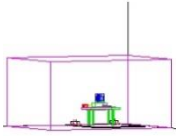
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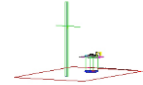
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [W]	Max. Power [dBm]	
NR Band n77 (PC2) (3450 - 3550MHz)	10 MHz	$\pi/2$ BPSK	3455.0 - 3545.0	8.540	4.14	0.486	26.87	8M54G7W
		QPSK	3455.0 - 3545.0	8.969	5.55	0.490	26.90	8M97G7W
		16QAM	3455.0 - 3545.0	8.968	6.42	0.390	25.91	8M97D7W
		64QAM	3455.0 - 3545.0	8.950	6.51	0.311	24.93	8M95D7W
	15 MHz	256QAM	3455.0 - 3545.0	8.991	6.54	0.158	21.98	8M99D7W
		$\pi/2$ BPSK	3457.5 - 3542.5	12.909	4.13	0.490	26.90	12M9G7W
		QPSK	3457.5 - 3542.5	13.604	5.52	0.471	26.73	13M6G7W
		16QAM	3457.5 - 3542.5	13.630	6.32	0.380	25.80	13M6D7W
	20 MHz	64QAM	3457.5 - 3542.5	13.628	6.62	0.312	24.94	13M6D7W
		256QAM	3457.5 - 3542.5	13.674	6.50	0.161	22.06	13M7D7W
		$\pi/2$ BPSK	3460.0 - 3540.0	17.951	4.04	0.490	26.90	18M0G7W
		QPSK	3460.0 - 3540.0	18.333	5.46	0.488	26.88	18M3G7W
	30MHz	16QAM	3460.0 - 3540.0	18.255	6.19	0.388	25.89	18M3D7W
		64QAM	3460.0 - 3540.0	18.248	6.59	0.310	24.91	18M2D7W
		256QAM	3460.0 - 3540.0	18.253	6.79	0.159	22.02	18M3D7W
		$\pi/2$ BPSK	3465.0 - 3535.0	26.945	4.15	0.489	26.89	26M9G7W
	40 MHz	QPSK	3465.0 - 3535.0	27.992	5.53	0.490	26.90	28M0G7W
		16QAM	3465.0 - 3535.0	27.960	6.30	0.390	25.91	28M0D7W
		64QAM	3465.0 - 3535.0	27.901	6.64	0.303	24.82	27M9D7W
		256QAM	3465.0 - 3535.0	27.968	6.87	0.158	22.00	28M0D7W
	50 MHz	$\pi/2$ BPSK	3470.0 - 3530.0	35.809	4.08	0.485	26.86	35M8G7W
		QPSK	3470.0 - 3530.0	37.940	5.47	0.490	26.90	37M9G7W
		16QAM	3470.0 - 3530.0	37.995	6.41	0.392	25.93	38M0D7W
		64QAM	3470.0 - 3530.0	37.805	6.61	0.310	24.92	37M8D7W
	60 MHz	256QAM	3470.0 - 3530.0	37.931	6.70	0.156	21.94	37M9D7W
		$\pi/2$ BPSK	3475.0 - 3525.0	45.774	3.88	0.490	26.90	45M8G7W
		QPSK	3475.0 - 3525.0	47.601	5.32	0.479	26.80	47M6G7W
		16QAM	3475.0 - 3525.0	47.485	6.13	0.382	25.82	47M5D7W
	70 MHz	64QAM	3475.0 - 3525.0	47.563	6.51	0.310	24.91	47M6D7W
		256QAM	3475.0 - 3525.0	47.529	6.68	0.155	21.90	47M5D7W
		$\pi/2$ BPSK	3480.0 - 3520.0	57.992	3.98	0.490	26.90	58M0G7W
		QPSK	3480.0 - 3520.0	57.960	5.34	0.485	26.86	58M0G7W
	80 MHz	16QAM	3480.0 - 3520.0	57.828	6.26	0.390	25.91	57M8D7W
		64QAM	3480.0 - 3520.0	57.897	6.57	0.308	24.89	57M9D7W
		256QAM	3480.0 - 3520.0	58.018	6.68	0.155	21.89	58M0D7W
		$\pi/2$ BPSK	3485.0 - 3515.0	64.313	4.37	0.490	26.90	64M3G7W
	90 MHz	QPSK	3485.0 - 3515.0	67.596	5.69	0.489	26.89	67M6G7W
		16QAM	3485.0 - 3515.0	67.634	6.45	0.381	25.81	67M6D7W
		64QAM	3485.0 - 3515.0	67.603	6.65	0.304	24.83	67M6D7W
		256QAM	3485.0 - 3515.0	67.635	6.59	0.157	21.96	67M6D7W
	100 MHz	$\pi/2$ BPSK	3490.0 - 3510.0	77.241	4.00	0.490	26.90	77M2G7W
		QPSK	3490.0 - 3510.0	77.551	5.35	0.489	26.89	77M6G7W
		16QAM	3490.0 - 3510.0	77.697	6.21	0.376	25.75	77M7D7W
		64QAM	3490.0 - 3510.0	77.814	6.51	0.306	24.86	77M8D7W
	90 MHz	256QAM	3490.0 - 3510.0	77.504	6.66	0.156	21.94	77M5D7W
		$\pi/2$ BPSK	3495.0 - 3505.0	86.947	3.93	0.488	26.88	86M9G7W
		QPSK	3495.0 - 3505.0	87.797	5.38	0.490	26.90	87M8G7W
		16QAM	3495.0 - 3505.0	87.913	6.25	0.388	25.89	87M9D7W
100 MHz	64QAM	3495.0 - 3505.0	87.462	6.56	0.309	24.90	87M5D7W	
	256QAM	3495.0 - 3505.0	87.809	6.65	0.158	22.00	87M8D7W	
	$\pi/2$ BPSK	3500	96.518	4.09	0.473	26.75	96M5G7W	
	QPSK	3500	97.559	5.44	0.470	26.72	97M6G7W	
100 MHz	16QAM	3500	97.752	6.33	0.378	25.77	97M8D7W	
	64QAM	3500	97.598	6.55	0.307	24.87	97M6D7W	
	256QAM	3500	97.675	6.69	0.154	21.87	97M7D7W	

## EUT Overview

FCC ID: BCGA2926		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device	Page 3 of 265

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	$\pi/2$ BPSK	3455.0 - 3545.0	8.540	4.14	0.321	25.06	8M54G7W
		QPSK	3455.0 - 3545.0	8.969	5.55	0.324	25.10	8M97G7W
		16QAM	3455.0 - 3545.0	8.968	6.42	0.257	24.10	8M97D7W
		64QAM	3455.0 - 3545.0	8.950	6.51	0.204	23.09	8M95D7W
		256QAM	3455.0 - 3545.0	8.991	6.54	0.104	20.19	8M99D7W
	15 MHz	$\pi/2$ BPSK	3457.5 - 3542.5	12.909	4.13	0.324	25.10	12M9G7W
		QPSK	3457.5 - 3542.5	13.604	5.52	0.316	25.00	13M6G7W
		16QAM	3457.5 - 3542.5	13.630	6.32	0.255	24.06	13M6D7W
		64QAM	3457.5 - 3542.5	13.628	6.62	0.204	23.09	13M6D7W
		256QAM	3457.5 - 3542.5	13.674	6.50	0.104	20.17	13M7D7W
	20 MHz	$\pi/2$ BPSK	3460.0 - 3540.0	17.951	4.04	0.324	25.10	18M0G7W
		QPSK	3460.0 - 3540.0	18.333	5.46	0.322	25.08	18M3G7W
		16QAM	3460.0 - 3540.0	18.255	6.19	0.254	24.04	18M3D7W
		64QAM	3460.0 - 3540.0	18.248	6.59	0.201	23.03	18M2D7W
		256QAM	3460.0 - 3540.0	18.253	6.79	0.103	20.13	18M3D7W
	30MHz	$\pi/2$ BPSK	3465.0 - 3535.0	26.945	4.15	0.324	25.10	26M9G7W
		QPSK	3465.0 - 3535.0	27.992	5.53	0.324	25.10	28M0G7W
		16QAM	3465.0 - 3535.0	27.960	6.30	0.256	24.08	28M0D7W
		64QAM	3465.0 - 3535.0	27.901	6.64	0.203	23.07	27M9D7W
		256QAM	3465.0 - 3535.0	27.968	6.87	0.104	20.15	28M0D7W
	40 MHz	$\pi/2$ BPSK	3470.0 - 3530.0	35.809	4.08	0.324	25.10	35M8G7W
		QPSK	3470.0 - 3530.0	37.940	5.47	0.316	25.00	37M9G7W
		16QAM	3470.0 - 3530.0	37.995	6.41	0.257	24.10	38M0D7W
		64QAM	3470.0 - 3530.0	37.805	6.61	0.206	23.14	37M8D7W
		256QAM	3470.0 - 3530.0	37.931	6.70	0.103	20.12	37M9D7W
	50 MHz	$\pi/2$ BPSK	3475.0 - 3525.0	45.774	3.88	0.324	25.10	45M8G7W
		QPSK	3475.0 - 3525.0	47.601	5.32	0.324	25.10	47M6G7W
		16QAM	3475.0 - 3525.0	47.485	6.13	0.254	24.05	47M5D7W
		64QAM	3475.0 - 3525.0	47.563	6.51	0.200	23.00	47M6D7W
		256QAM	3475.0 - 3525.0	47.529	6.68	0.105	20.20	47M5D7W
	60 MHz	$\pi/2$ BPSK	3480.0 - 3520.0	57.992	3.98	0.324	25.10	58M0G7W
		QPSK	3480.0 - 3520.0	57.960	5.34	0.321	25.06	58M0G7W
		16QAM	3480.0 - 3520.0	57.828	6.26	0.258	24.11	57M8D7W
		64QAM	3480.0 - 3520.0	57.897	6.57	0.201	23.04	57M9D7W
		256QAM	3480.0 - 3520.0	58.018	6.68	0.102	20.09	58M0D7W
	70 MHz	$\pi/2$ BPSK	3485.0 - 3515.0	64.313	4.37	0.324	25.10	64M3G7W
		QPSK	3485.0 - 3515.0	67.596	5.69	0.318	25.03	67M6G7W
		16QAM	3485.0 - 3515.0	67.634	6.45	0.259	24.13	67M6D7W
		64QAM	3485.0 - 3515.0	67.603	6.65	0.206	23.14	67M6D7W
		256QAM	3485.0 - 3515.0	67.635	6.59	0.106	20.24	67M6D7W
	80 MHz	$\pi/2$ BPSK	3490.0 - 3510.0	77.241	4.00	0.324	25.10	77M2G7W
		QPSK	3490.0 - 3510.0	77.551	5.35	0.322	25.08	77M6G7W
		16QAM	3490.0 - 3510.0	77.697	6.21	0.254	24.04	77M7D7W
		64QAM	3490.0 - 3510.0	77.814	6.51	0.202	23.05	77M8D7W
		256QAM	3490.0 - 3510.0	77.504	6.66	0.105	20.20	77M5D7W
	90 MHz	$\pi/2$ BPSK	3495.0 - 3505.0	86.947	3.93	0.320	25.05	86M9G7W
		QPSK	3495.0 - 3505.0	87.797	5.38	0.324	25.10	87M8G7W
		16QAM	3495.0 - 3505.0	87.913	6.25	0.256	24.09	87M9D7W
		64QAM	3495.0 - 3505.0	87.462	6.56	0.205	23.11	87M5D7W
		256QAM	3495.0 - 3505.0	87.809	6.65	0.103	20.13	87M8D7W
	100 MHz	$\pi/2$ BPSK	3500	96.518	4.09	0.318	25.02	96M5G7W
		QPSK	3500	97.559	5.44	0.321	25.06	97M6G7W
		16QAM	3500	97.752	6.33	0.260	24.15	97M8D7W
		64QAM	3500	97.598	6.55	0.200	23.02	97M6D7W
		256QAM	3500	97.675	6.69	0.106	20.25	97M7D7W

### EUT Overview

FCC ID: BCGA2926	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device
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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	$\pi/2$ BPSK	3705.0 - 3975.0	8.641	4.20	0.500	26.99	8M64G7W
		QPSK	3705.0 - 3975.0	8.602	5.50	0.525	27.20	8M60G7W
		16QAM	3705.0 - 3975.0	8.615	6.18	0.406	26.08	8M62D7W
		64QAM	3705.0 - 3975.0	8.569	6.46	0.328	25.16	8M57D7W
		256QAM	3705.0 - 3975.0	8.625	6.56	0.168	22.25	8M62D7W
	15 MHz	$\pi/2$ BPSK	3707.5 - 3972.5	12.847	4.19	0.525	27.20	12M8G7W
		QPSK	3707.5 - 3972.5	13.629	5.31	0.519	27.15	13M6G7W
		16QAM	3707.5 - 3972.5	13.564	6.20	0.417	26.20	13M6D7W
		64QAM	3707.5 - 3972.5	13.579	6.39	0.327	25.15	13M6D7W
		256QAM	3707.5 - 3972.5	13.574	6.53	0.169	22.29	13M6D7W
	20 MHz	$\pi/2$ BPSK	3710.0 - 3970.0	17.906	4.13	0.521	27.17	17M9G7W
		QPSK	3710.0 - 3970.0	18.209	5.23	0.525	27.20	18M2G7W
		16QAM	3710.0 - 3970.0	18.241	6.06	0.419	26.22	18M2D7W
		64QAM	3710.0 - 3970.0	18.330	6.41	0.330	25.19	18M3D7W
		256QAM	3710.0 - 3970.0	18.240	6.45	0.169	22.29	18M2D7W
	30MHz	$\pi/2$ BPSK	3715.0 - 3965.0	26.961	4.27	0.515	27.12	27M0G7W
		QPSK	3715.0 - 3965.0	28.002	5.07	0.525	27.20	28M0G7W
		16QAM	3715.0 - 3965.0	27.946	6.03	0.415	26.18	27M9D7W
		64QAM	3715.0 - 3965.0	27.918	6.27	0.331	25.20	27M9D7W
		256QAM	3715.0 - 3965.0	27.924	6.36	0.169	22.28	27M9D7W
	40 MHz	$\pi/2$ BPSK	3720.0 - 3960.0	35.908	4.26	0.525	27.20	35M9G7W
		QPSK	3720.0 - 3960.0	37.927	4.93	0.520	27.16	37M9G7W
		16QAM	3720.0 - 3960.0	37.920	6.01	0.418	26.21	37M9D7W
		64QAM	3720.0 - 3960.0	37.979	6.26	0.328	25.16	38M0D7W
		256QAM	3720.0 - 3960.0	37.919	6.51	0.166	22.21	37M9D7W
	50 MHz	$\pi/2$ BPSK	3725.0 - 3955.0	45.885	3.87	0.525	27.20	45M9G7W
		QPSK	3725.0 - 3955.0	47.611	5.27	0.524	27.19	47M6G7W
		16QAM	3725.0 - 3955.0	47.513	6.05	0.418	26.21	47M5D7W
		64QAM	3725.0 - 3955.0	47.569	6.45	0.329	25.17	47M6D7W
		256QAM	3725.0 - 3955.0	47.594	6.66	0.172	22.35	47M6D7W
	60 MHz	$\pi/2$ BPSK	3730.0 - 3950.0	57.856	3.94	0.522	27.18	57M9G7W
		QPSK	3730.0 - 3950.0	57.950	5.29	0.525	27.20	57M9G7W
		16QAM	3730.0 - 3950.0	57.938	6.22	0.419	26.22	57M9D7W
		64QAM	3730.0 - 3950.0	57.886	6.51	0.333	25.22	57M9D7W
		256QAM	3730.0 - 3950.0	58.018	6.67	0.167	22.24	58M0D7W
	70 MHz	$\pi/2$ BPSK	3735.0 - 3945.0	64.461	4.33	0.511	27.08	64M5G7W
		QPSK	3735.0 - 3945.0	67.517	5.64	0.525	27.20	67M5G7W
		16QAM	3735.0 - 3945.0	67.752	6.35	0.415	26.18	67M8D7W
		64QAM	3735.0 - 3945.0	67.616	6.55	0.330	25.19	67M6D7W
		256QAM	3735.0 - 3945.0	67.659	6.62	0.168	22.26	67M7D7W
	80 MHz	$\pi/2$ BPSK	3740.0 - 3940.0	77.394	3.97	0.524	27.19	77M4G7W
		QPSK	3740.0 - 3940.0	77.755	5.31	0.525	27.20	77M8G7W
		16QAM	3740.0 - 3940.0	77.801	6.14	0.420	26.23	77M8D7W
		64QAM	3740.0 - 3940.0	77.740	6.45	0.333	25.23	77M7D7W
		256QAM	3740.0 - 3940.0	77.735	6.71	0.170	22.30	77M7D7W
	90 MHz	$\pi/2$ BPSK	3745.0 - 3935.0	86.982	3.98	0.522	27.18	87M0G7W
		QPSK	3745.0 - 3935.0	87.722	5.33	0.525	27.20	87M7G7W
		16QAM	3745.0 - 3935.0	87.729	6.16	0.414	26.17	87M7D7W
		64QAM	3745.0 - 3935.0	87.943	6.46	0.330	25.18	87M9D7W
		256QAM	3745.0 - 3935.0	87.714	6.53	0.166	22.21	87M7D7W
	100 MHz	$\pi/2$ BPSK	3750.0 - 3930.0	96.690	4.07	0.525	27.20	96M7G7W
		QPSK	3750.0 - 3930.0	97.720	5.36	0.519	27.15	97M7G7W
		16QAM	3750.0 - 3930.0	97.711	6.21	0.417	26.20	97M7D7W
		64QAM	3750.0 - 3930.0	97.911	6.43	0.327	25.15	97M9D7W
		256QAM	3750.0 - 3930.0	97.670	6.57	0.168	22.25	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	$\pi/2$ BPSK	3705.0 - 3975.0	8.641	4.20	0.355	25.50	8M64G7W
		QPSK	3705.0 - 3975.0	8.602	5.50	0.352	25.46	8M60G7W
		16QAM	3705.0 - 3975.0	8.615	6.18	0.282	24.50	8M62D7W
		64QAM	3705.0 - 3975.0	8.569	6.46	0.222	23.46	8M57D7W
	256QAM	3705.0 - 3975.0	8.625	6.56	0.115	20.59	8M62D7W	
	15 MHz	$\pi/2$ BPSK	3707.5 - 3972.5	12.847	4.19	0.347	25.40	12M8G7W
		QPSK	3707.5 - 3972.5	13.629	5.31	0.355	25.50	13M6G7W
		16QAM	3707.5 - 3972.5	13.564	6.20	0.281	24.49	13M6D7W
		64QAM	3707.5 - 3972.5	13.579	6.39	0.219	23.41	13M6D7W
	256QAM	3707.5 - 3972.5	13.574	6.53	0.115	20.60	13M6D7W	
	20 MHz	$\pi/2$ BPSK	3710.0 - 3970.0	17.906	4.13	0.355	25.50	17M9G7W
		QPSK	3710.0 - 3970.0	18.209	5.23	0.353	25.48	18M2G7W
		16QAM	3710.0 - 3970.0	18.241	6.06	0.279	24.45	18M2D7W
		64QAM	3710.0 - 3970.0	18.330	6.41	0.222	23.46	18M3D7W
	256QAM	3710.0 - 3970.0	18.240	6.45	0.114	20.57	18M2D7W	
	30MHz	$\pi/2$ BPSK	3715.0 - 3965.0	26.961	4.27	0.355	25.50	27M0G7W
		QPSK	3715.0 - 3965.0	28.002	5.07	0.349	25.43	28M0G7W
		16QAM	3715.0 - 3965.0	27.946	6.03	0.283	24.52	27M9D7W
		64QAM	3715.0 - 3965.0	27.918	6.27	0.225	23.52	27M9D7W
	256QAM	3715.0 - 3965.0	27.924	6.36	0.115	20.61	27M9D7W	
	40 MHz	$\pi/2$ BPSK	3720.0 - 3960.0	35.908	4.26	0.355	25.50	35M9G7W
		QPSK	3720.0 - 3960.0	37.927	4.93	0.353	25.48	37M9G7W
		16QAM	3720.0 - 3960.0	37.920	6.01	0.281	24.48	37M9D7W
		64QAM	3720.0 - 3960.0	37.979	6.26	0.223	23.48	38M0D7W
	256QAM	3720.0 - 3960.0	37.919	6.51	0.114	20.57	37M9D7W	
	50 MHz	$\pi/2$ BPSK	3725.0 - 3955.0	45.885	3.87	0.352	25.46	45M9G7W
		QPSK	3725.0 - 3955.0	47.611	5.27	0.355	25.50	47M6G7W
		16QAM	3725.0 - 3955.0	47.513	6.05	0.284	24.53	47M5D7W
		64QAM	3725.0 - 3955.0	47.569	6.45	0.221	23.45	47M6D7W
	256QAM	3725.0 - 3955.0	47.594	6.66	0.115	20.61	47M6D7W	
	60 MHz	$\pi/2$ BPSK	3730.0 - 3950.0	57.856	3.94	0.355	25.50	57M9G7W
		QPSK	3730.0 - 3950.0	57.950	5.29	0.355	25.50	57M9G7W
		16QAM	3730.0 - 3950.0	57.938	6.22	0.279	24.46	57M9D7W
		64QAM	3730.0 - 3950.0	57.886	6.51	0.224	23.50	57M9D7W
	256QAM	3730.0 - 3950.0	58.018	6.67	0.115	20.59	58M0D7W	
	70 MHz	$\pi/2$ BPSK	3735.0 - 3945.0	64.461	4.33	0.355	25.50	64M5G7W
		QPSK	3735.0 - 3945.0	67.517	5.64	0.348	25.42	67M5G7W
		16QAM	3735.0 - 3945.0	67.752	6.35	0.279	24.45	67M8D7W
		64QAM	3735.0 - 3945.0	67.616	6.55	0.224	23.50	67M6D7W
	256QAM	3735.0 - 3945.0	67.659	6.62	0.112	20.51	67M7D7W	
	80 MHz	$\pi/2$ BPSK	3740.0 - 3940.0	77.394	3.97	0.355	25.50	77M4G7W
		QPSK	3740.0 - 3940.0	77.755	5.31	0.352	25.46	77M8G7W
		16QAM	3740.0 - 3940.0	77.801	6.14	0.280	24.47	77M8D7W
		64QAM	3740.0 - 3940.0	77.740	6.45	0.223	23.48	77M7D7W
	256QAM	3740.0 - 3940.0	77.735	6.71	0.115	20.60	77M7D7W	
	90 MHz	$\pi/2$ BPSK	3745.0 - 3935.0	86.982	3.98	0.347	25.40	87M0G7W
		QPSK	3745.0 - 3935.0	87.722	5.33	0.355	25.50	87M7G7W
		16QAM	3745.0 - 3935.0	87.729	6.16	0.279	24.45	87M7D7W
		64QAM	3745.0 - 3935.0	87.943	6.46	0.217	23.36	87M9D7W
	256QAM	3745.0 - 3935.0	87.714	6.53	0.115	20.60	87M7D7W	
	100 MHz	$\pi/2$ BPSK	3750.0 - 3930.0	96.690	4.07	0.354	25.49	96M7G7W
		QPSK	3750.0 - 3930.0	97.720	5.36	0.355	25.50	97M7G7W
		16QAM	3750.0 - 3930.0	97.711	6.21	0.280	24.47	97M7D7W
		64QAM	3750.0 - 3930.0	97.911	6.43	0.217	23.37	97M9D7W
	256QAM	3750.0 - 3930.0	97.670	6.57	0.115	20.61	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 Materials Technology 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:BCGA2926**. 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.:** HJ5C9VR4GL, K73QQTXQ6R, YP672PW96X, DLXGY40006P000063B, DLXGY400085000063B

### 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 WLAN, 802.11a/n/ac/ax UNII, 802.11a/ax WIFI 6E, 802.15.4, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), NB UNII (1x, HDR4, HDR8), WPT

This device supports BT Beamforming

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	Wifi 2GHz	Bluetooth	Thread	Wifi 5GHz	Wifi 6GHz	NB UNII	LTE/FR1 NR	
		802.11 b/g/n/ax	BDR, EDR, HDR4/8, LE1/2M	802.15.4	802.11 a/n/ac/ax	802.11 a/ax	BDR, HDR4/8	MB/HB	UHB
2a	Config 1	X	✓	X	✓	X	X	X	X
2a	Config 2	X	✓	X	X	✓	X	X	X
2a	Config 3	✓	X	X	X	X	✓	X	X
2a	Config 4	X	X	✓	✓	X	X	X	X
2a	Config 5	X	X	✓	X	✓	X	X	X
4a	Config 6	X	✓	X	✓	X	X	X	X
4a	Config 7	X	✓	X	X	✓	X	X	X
4a	Config 8	✓	X	X	X	X	✓	X	X
4a	Config 9	X	X	✓	✓	X	X	X	X
4a	Config 10	X	X	✓	X	✓	X	X	X


**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.

Specific 2.4GHz Wi-Fi antenna that can only transmit simultaneously with 2.4GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4GHz) in connected mode and Wi-Fi (2.4GHz) - Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. For BT (2.4GHz) in disconnected mode and Wi-Fi (2.4GHz) - BT will be using iPA only and Wi-Fi max power will not exceed minimum of (SAR max cap, Reg max cap) power. Bluetooth can simultaneously transmit with IEEE 802.11a/n/ac/ax 5/6 GHz on separate antenna.

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## 2.3 Antenna Description

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

Band	Antenna Gain [dBi]			
	Antenna 3	Antenna 1	Antenna 4b	Antenna 2b
NR Band n77 (Sub 1)	-0.6	1.5	-2.9	-3.0
NR Band n77 (Sub 2)	-0.3	-0.1	-0.2	-1.0

**Table 2-2. Highest Antenna Gain**

## 2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: Model:	A2141 A2166	S/N: S/N:	C02H604EQ05D C4H042705ZNP M0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: Model:	A246C A2305	S/N: S/N:	DWH80115BK826GV19 C4H95160004PF4F4V
4	DC Power Supply	Model:	KPS3010D	S/N:	N/A
5	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW

**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.


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 21E8197 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:

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


And

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

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)	4.59

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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
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	6/21/2023	Annual	6/21/2024	MY49430244
ESPEC	SU-241	Tabletop Temperature Chamber	11/17/2023	Annual	11/17/2024	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	3/30/2023	Annual	3/30/2024	00218555
Keysight Technology	N9040B	UXA Signal Analyzer	11/5/2023	Annual	11/5/2024	MY57213068
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/31/2023	Annual	8/31/2024	100052
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/11/2023	Annual	5/11/2024	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	6/6/2023	Annual	6/6/2024	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	6/22/2023	Annual	6/22/2024	102356
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/30/2023	Annual	11/30/2024	161616
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/27/2023	Annual	12/27/2024	164715
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/2/2023	Annual	6/2/2024	100050
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/1/2023	Annual	5/1/2024	100519
Rohde & Schwarz	FSW43	Signal Analyzer (2Hz-43.5GHz)	7/13/2023	Annual	7/13/2024	101261
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/17/2023	Annual	4/17/2024	00304

**Table 5-1. Test Equipment**

**Notes:**

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.

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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: BCGA2926  
 FCC Classification: PCS Licensed Transmitter (PCB)  
 Mode(s): NR


Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
<b>CONDUCTED</b>	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
<b>RADIATED</b>	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 v1.1.

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V2.2 09/07/2023



## 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

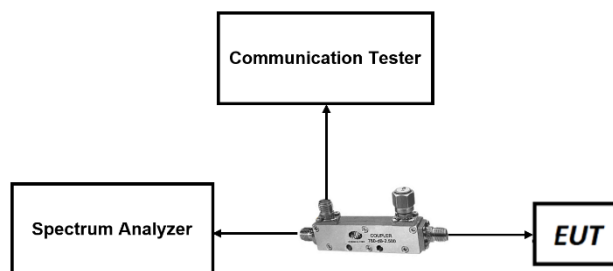
KDB 971168 D01 v03r01 – Section 4.2

#### 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 x 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. Test Instrument & Measurement Setup**

#### Test Notes

None.

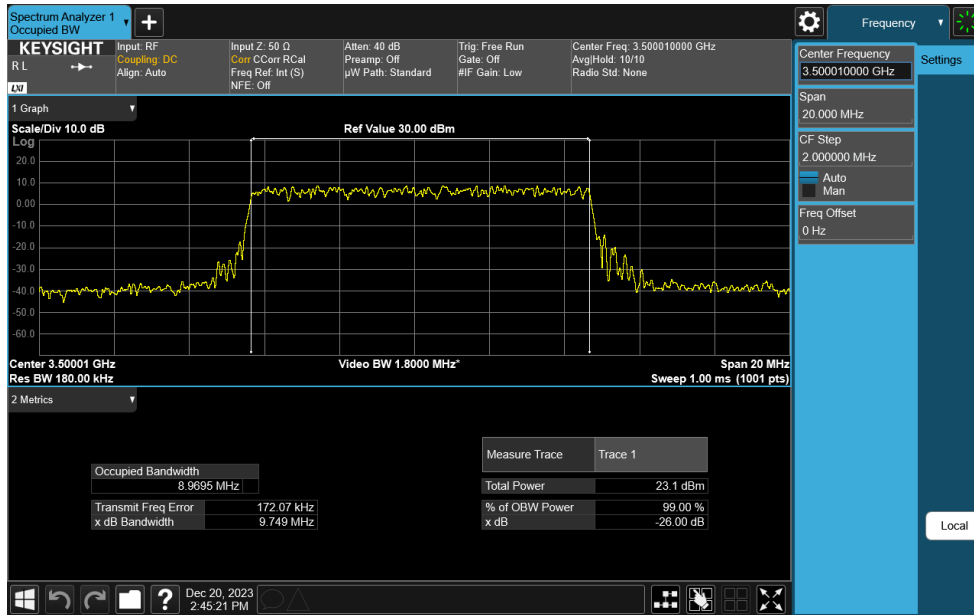
FCC ID: BCGA2926	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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# NR Band n77 DoD-Band

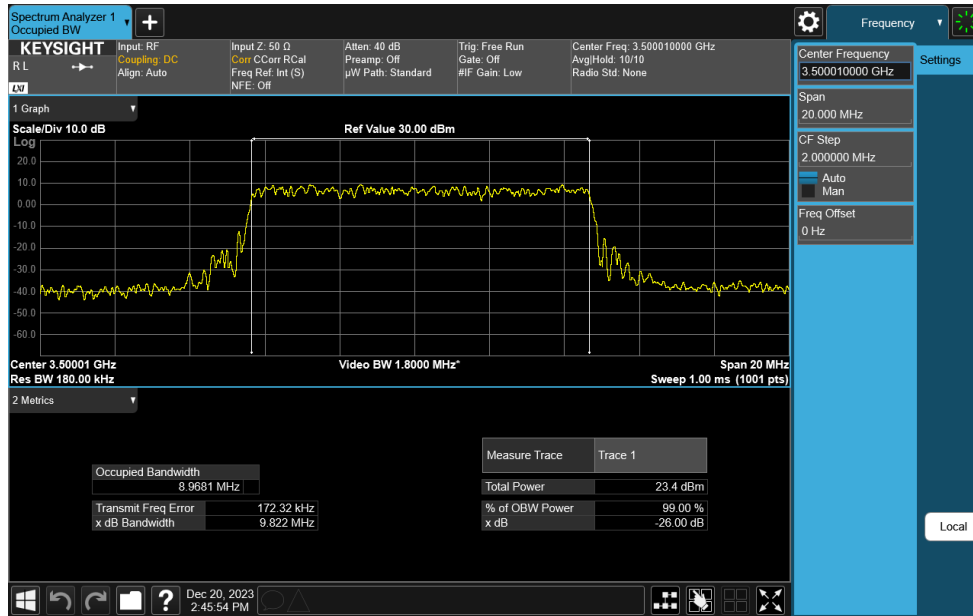


Plot 7-1. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



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

FCC ID: BCGA2926	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)

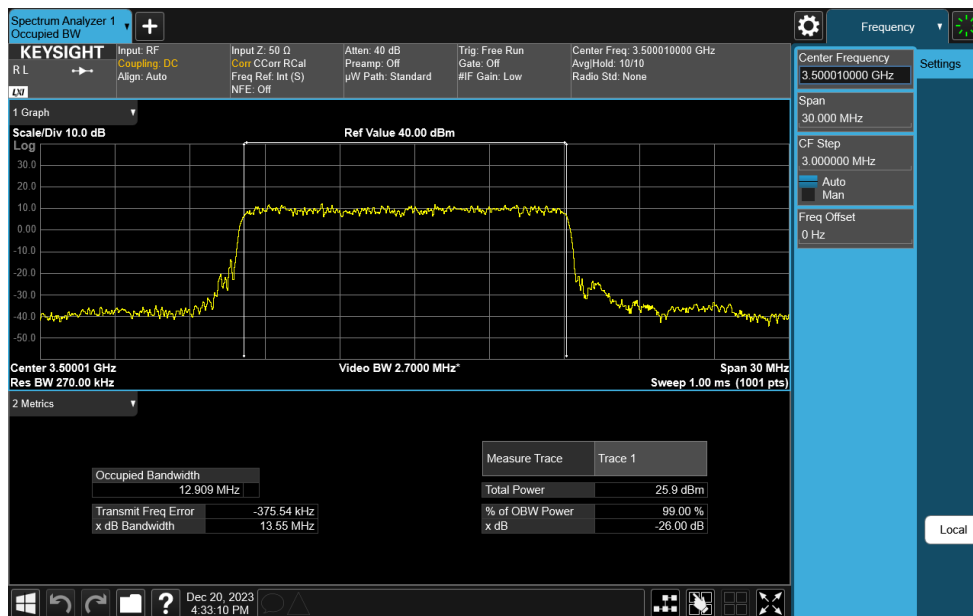


Plot 7-4. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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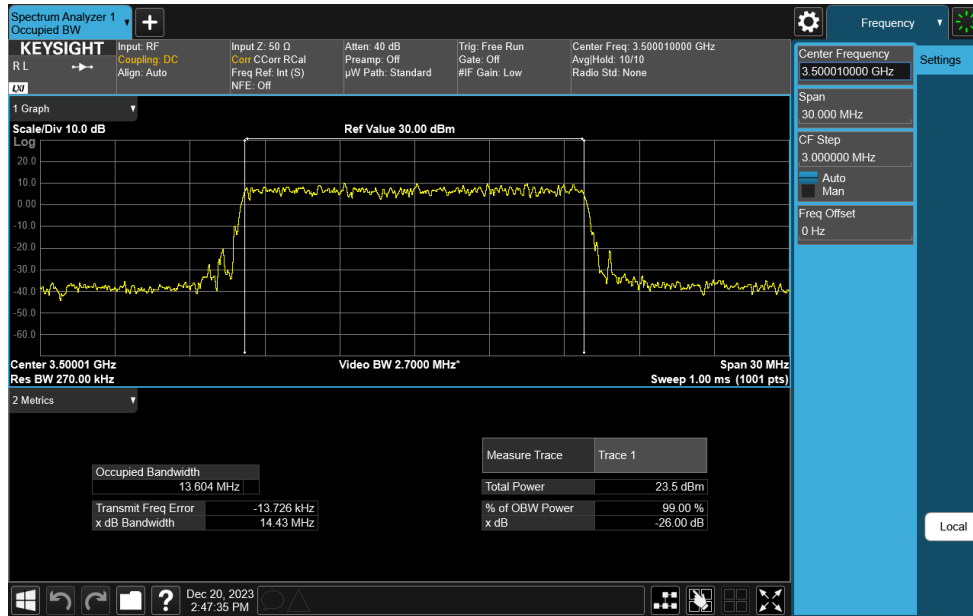


**Plot 7-5. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 256-QAM - Full RB)**

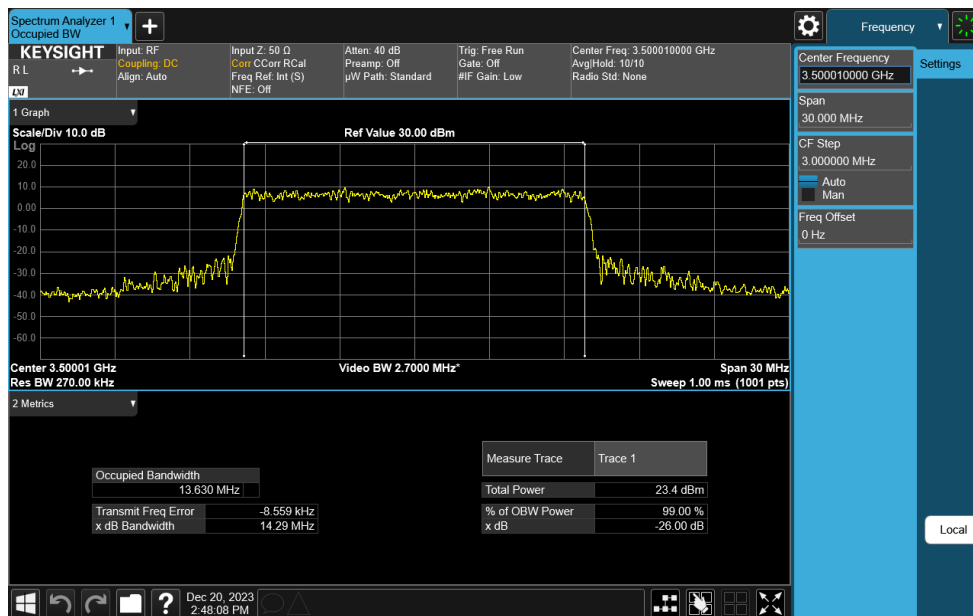


**Plot 7-6. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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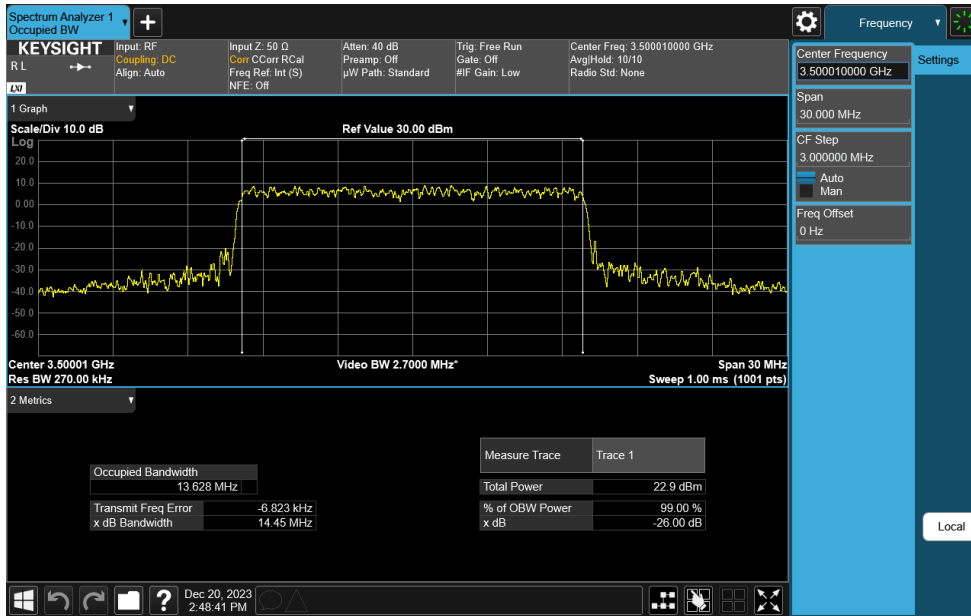


Plot 7-7. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM QPSK - Full RB)

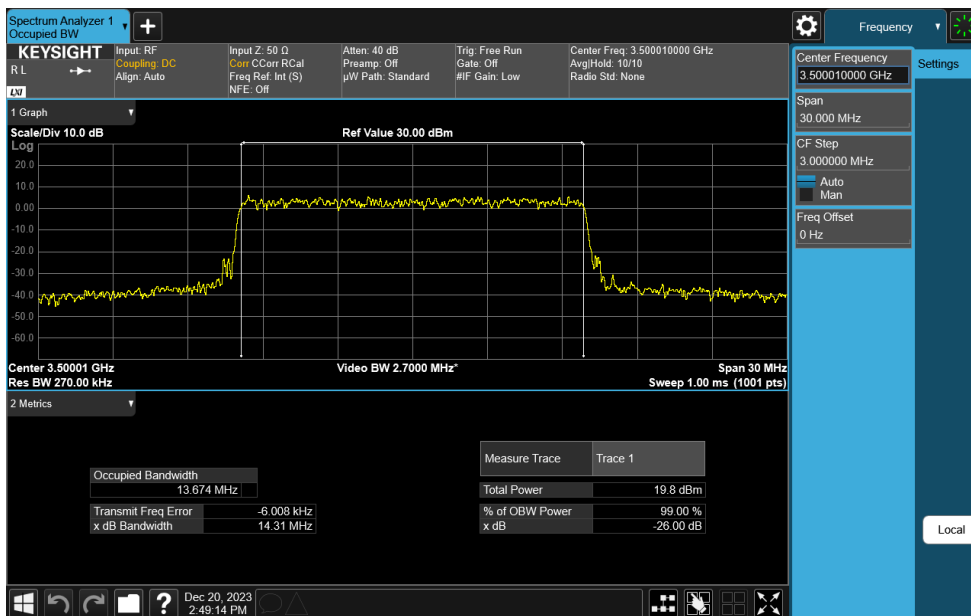


Plot 7-8. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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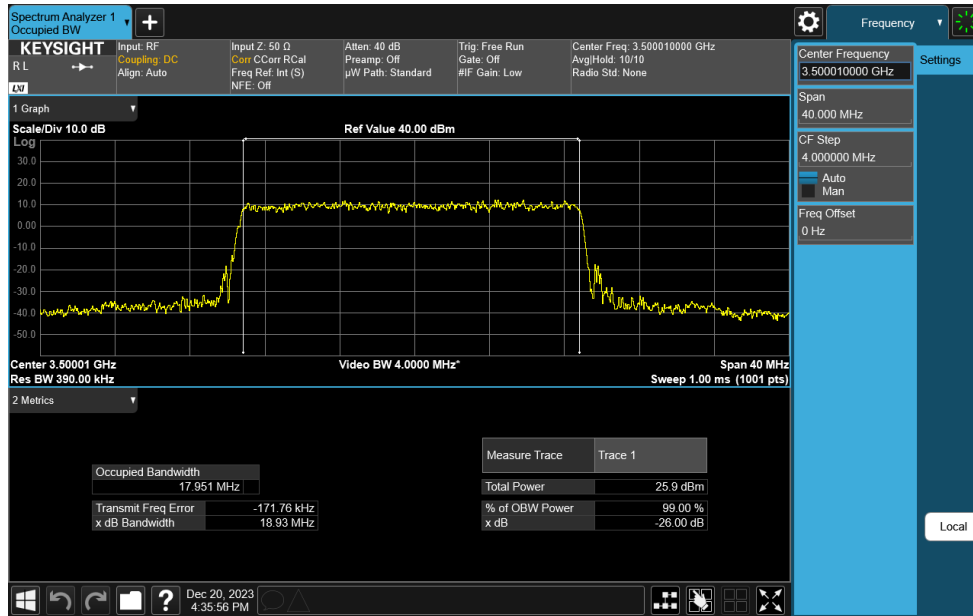


Plot 7-9. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 64-QAM - Full RB)

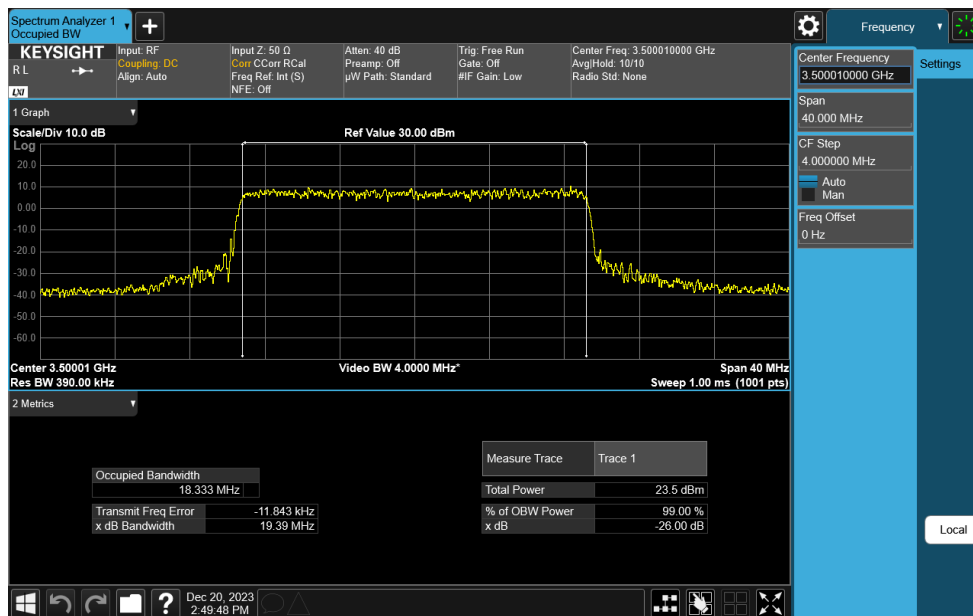


Plot 7-10. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-11. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-12. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	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)**

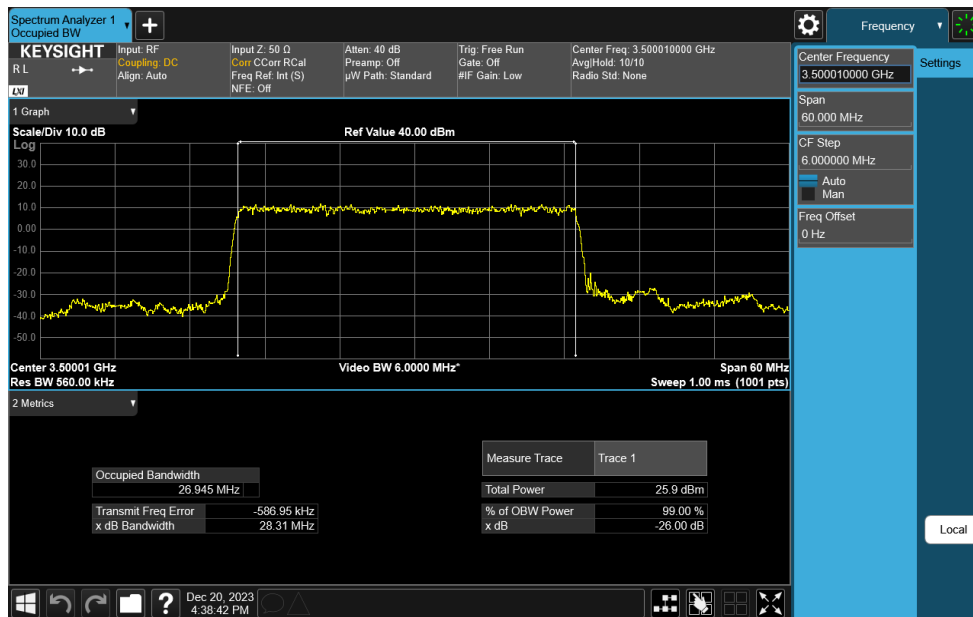


**Plot 7-14. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 64-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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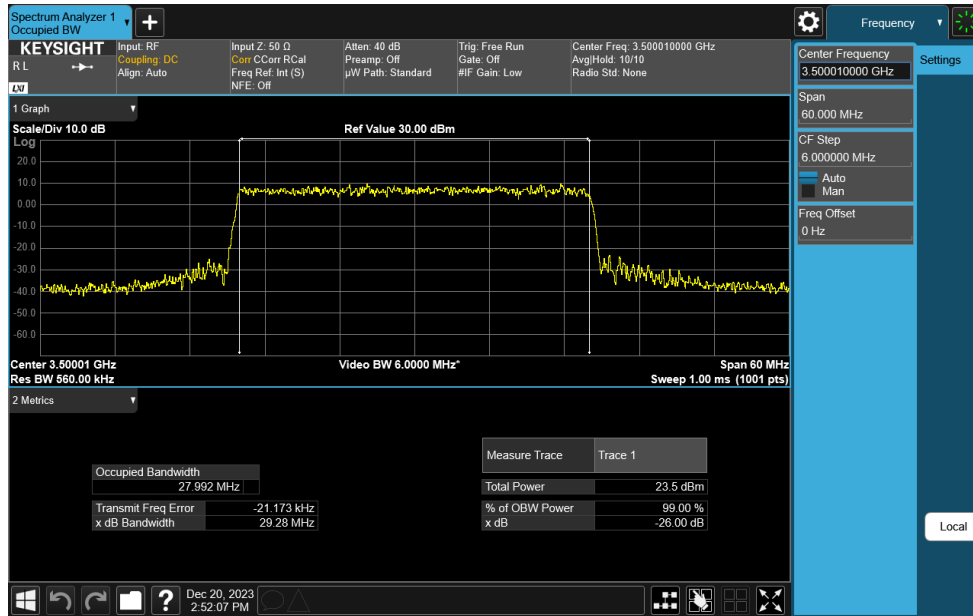


**Plot 7-15. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 256-QAM - Full RB)**

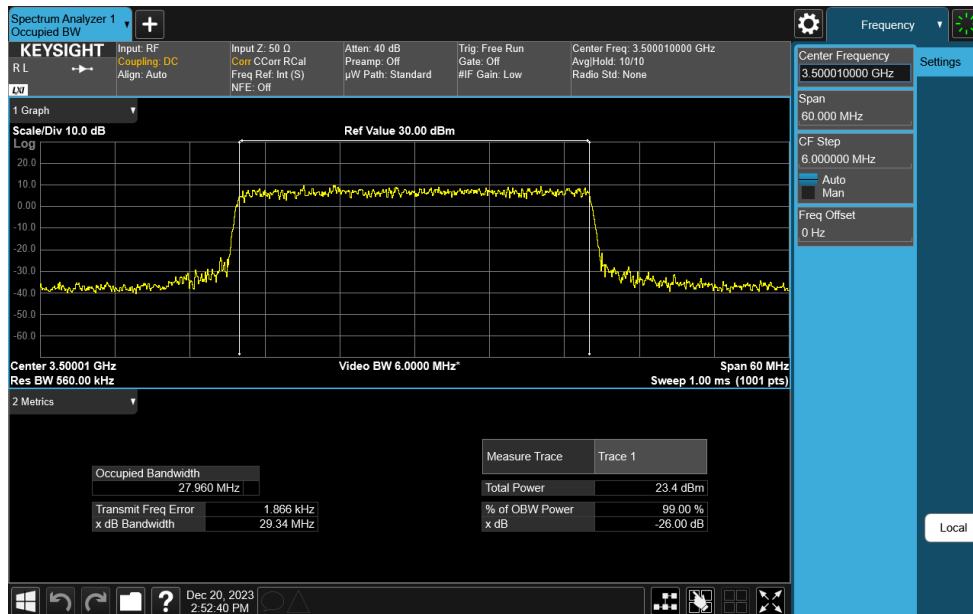


**Plot 7-16. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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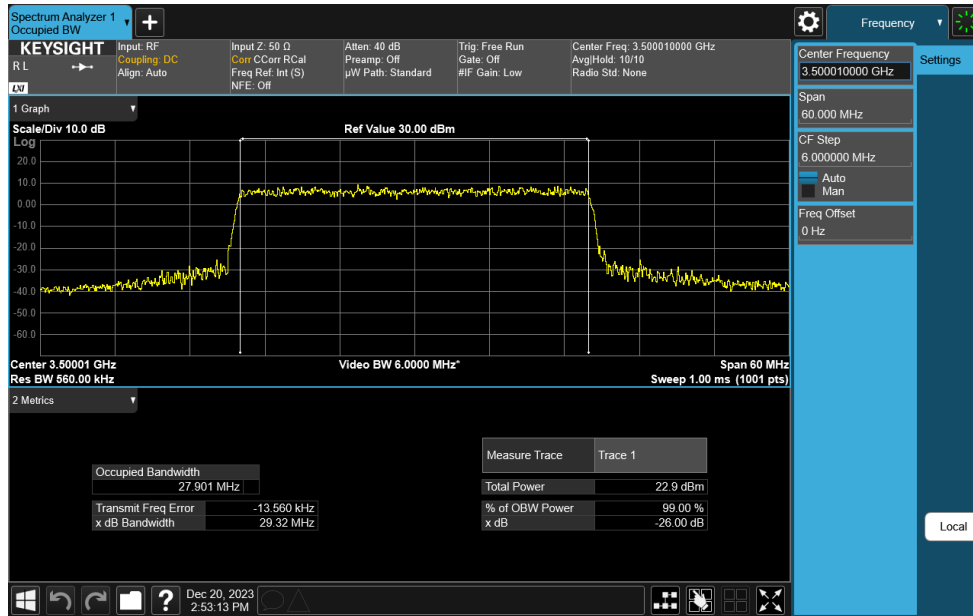


Plot 7-17. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM QPSK - Full RB)

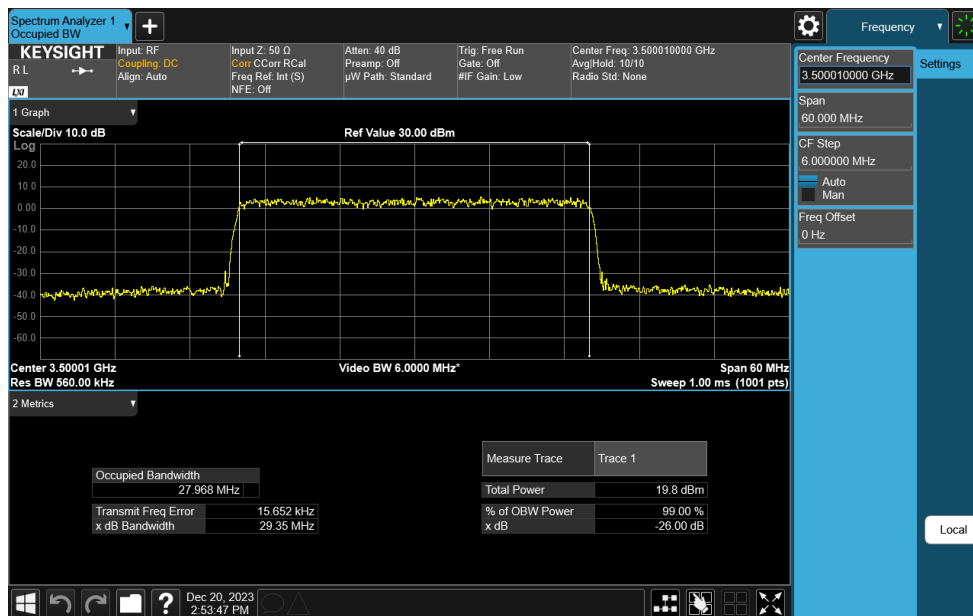


Plot 7-18. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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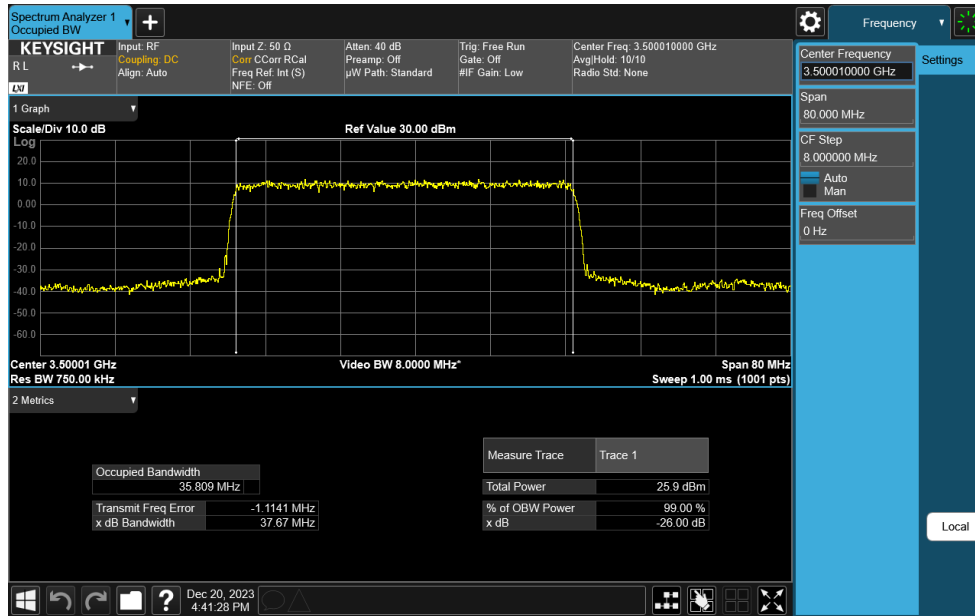


**Plot 7-19. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 64-QAM - Full RB)**

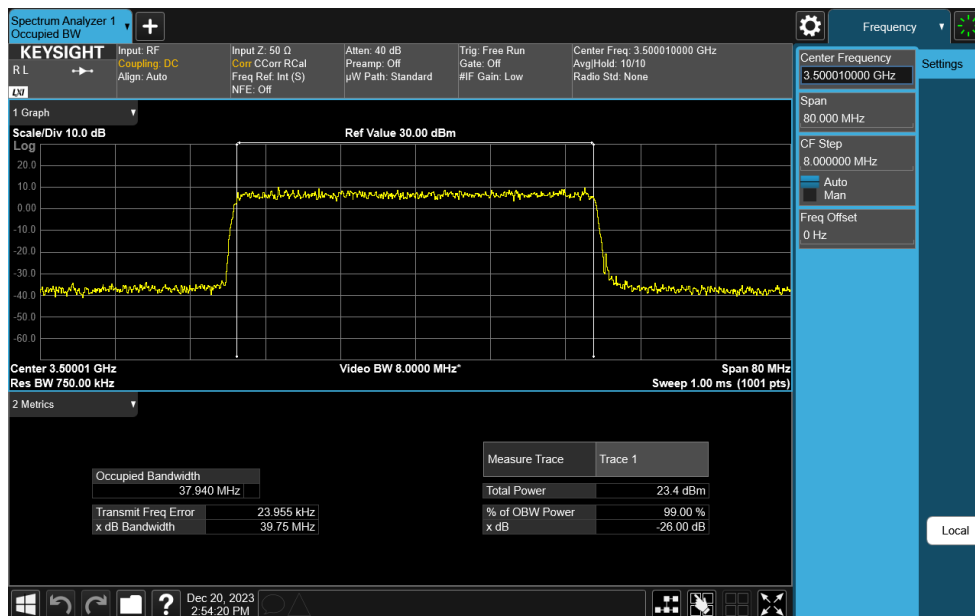


**Plot 7-20. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device
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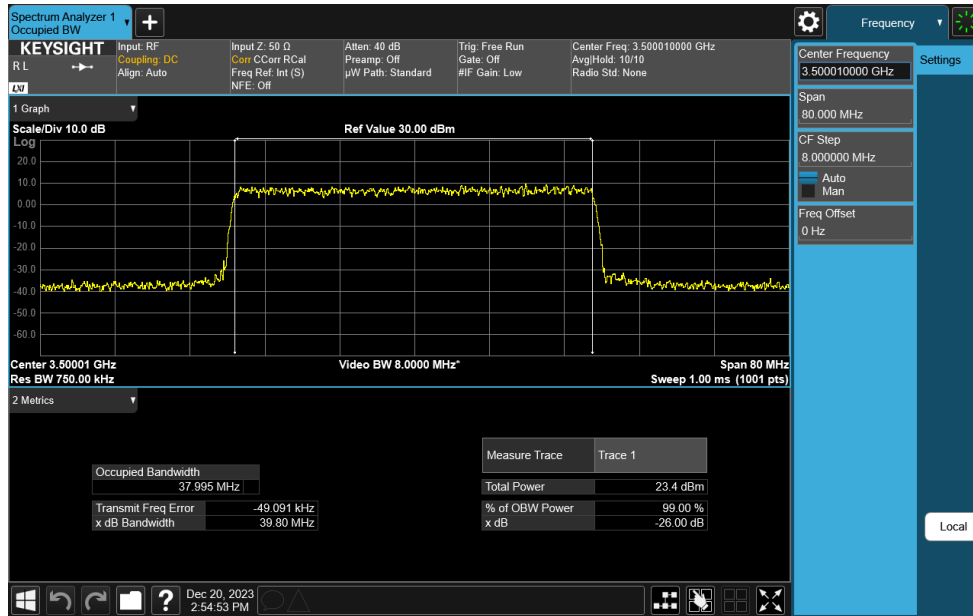


Plot 7-21. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

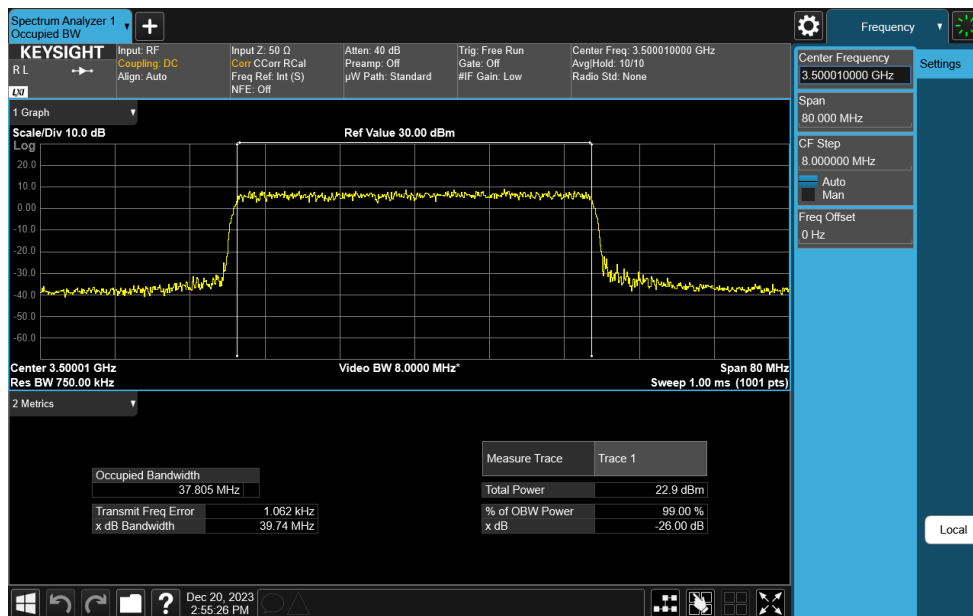


Plot 7-22. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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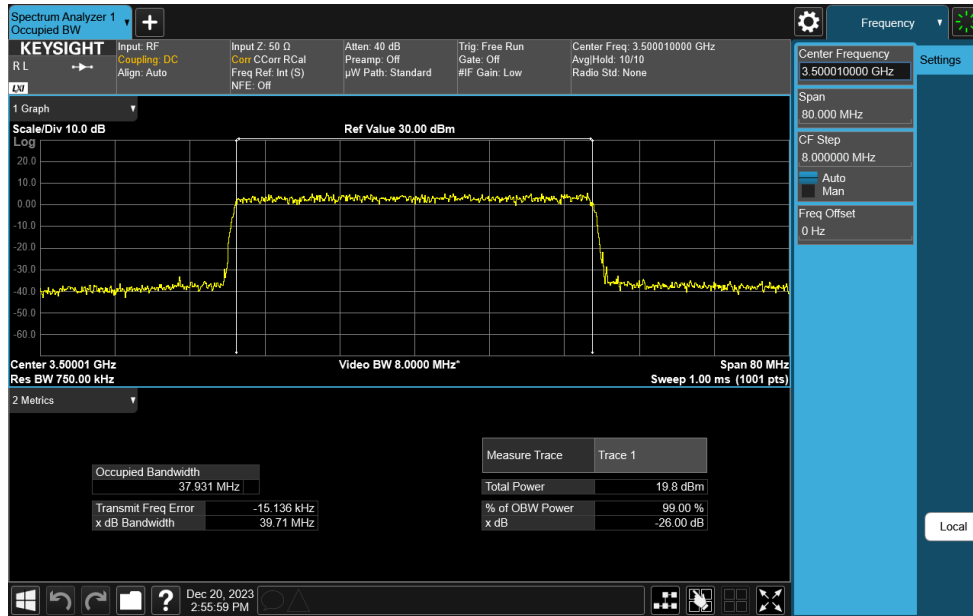


Plot 7-23. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 16-QAM - Full RB)

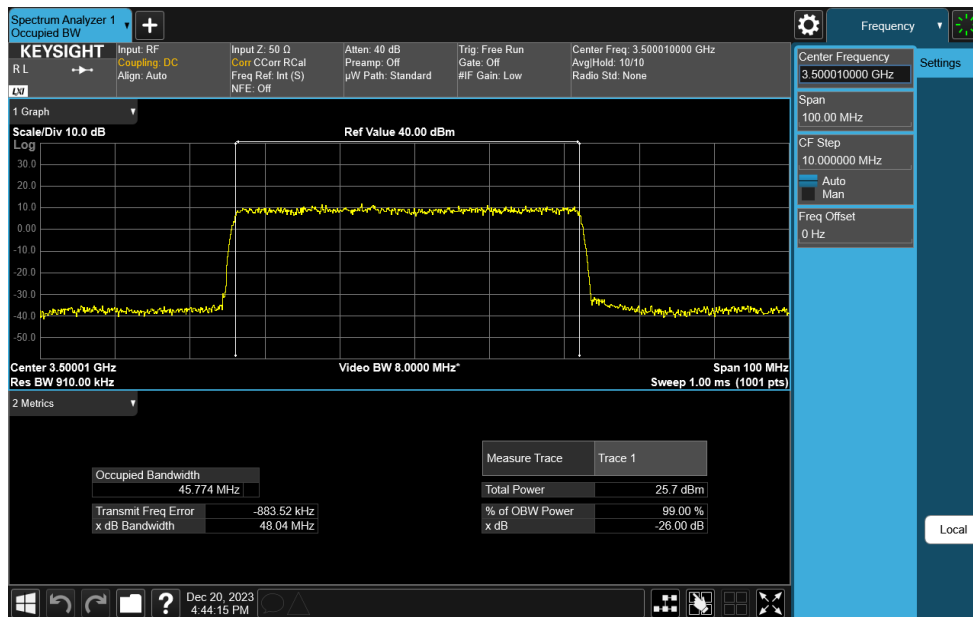


Plot 7-24. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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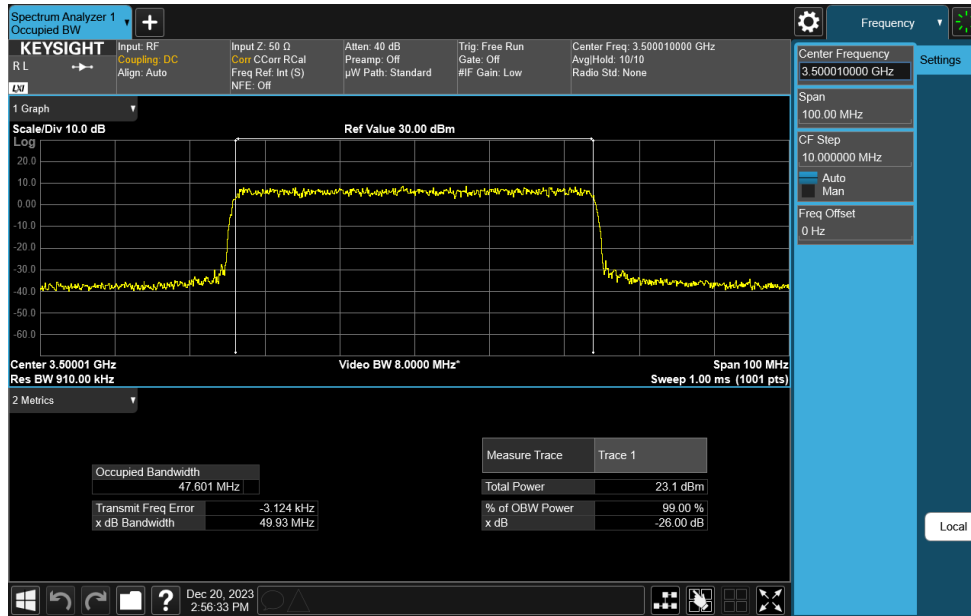
Plot 7-25. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 256-QAM - Full RB)



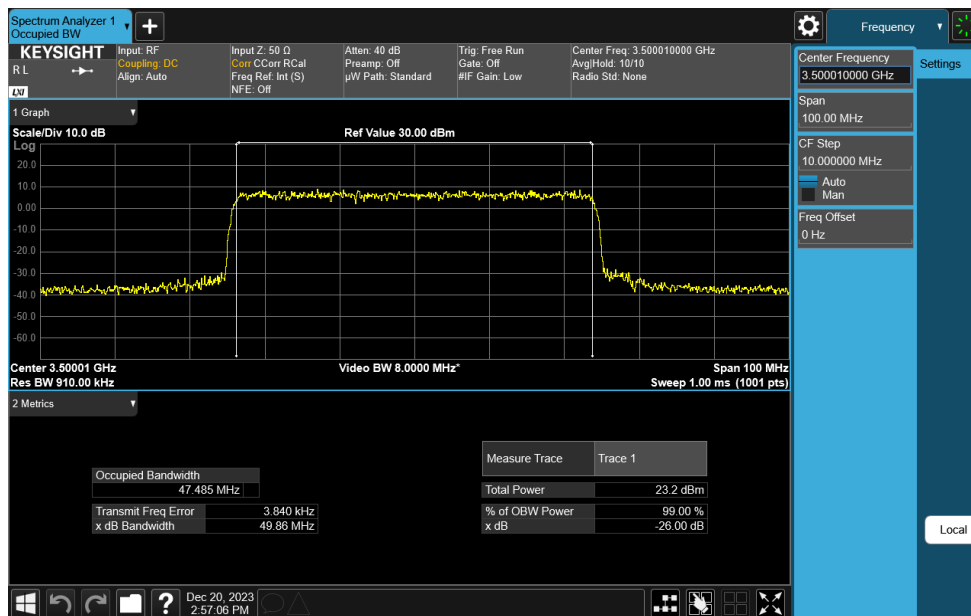
Plot 7-26. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device
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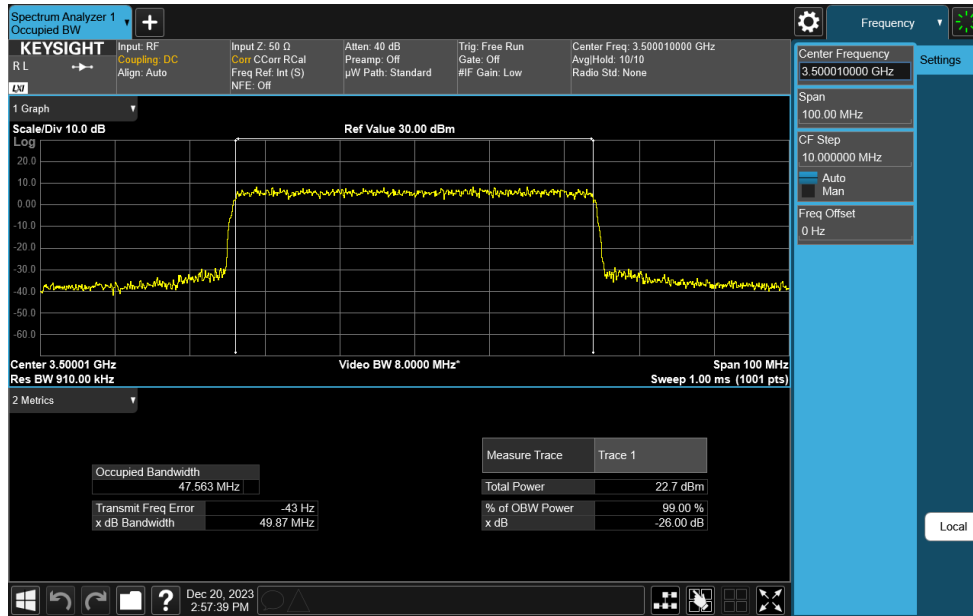


Plot 7-27. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM QPSK - Full RB)

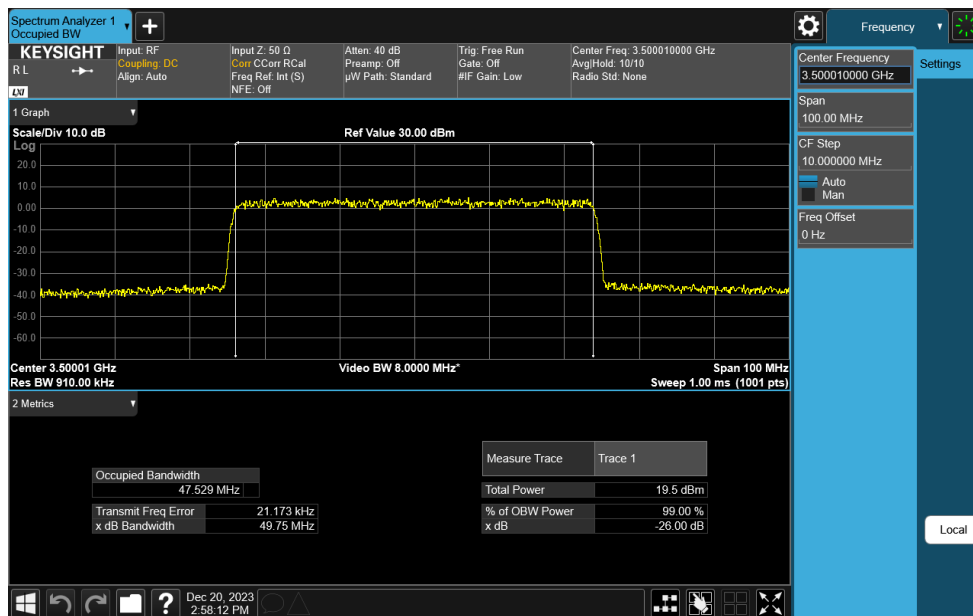


Plot 7-28. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device
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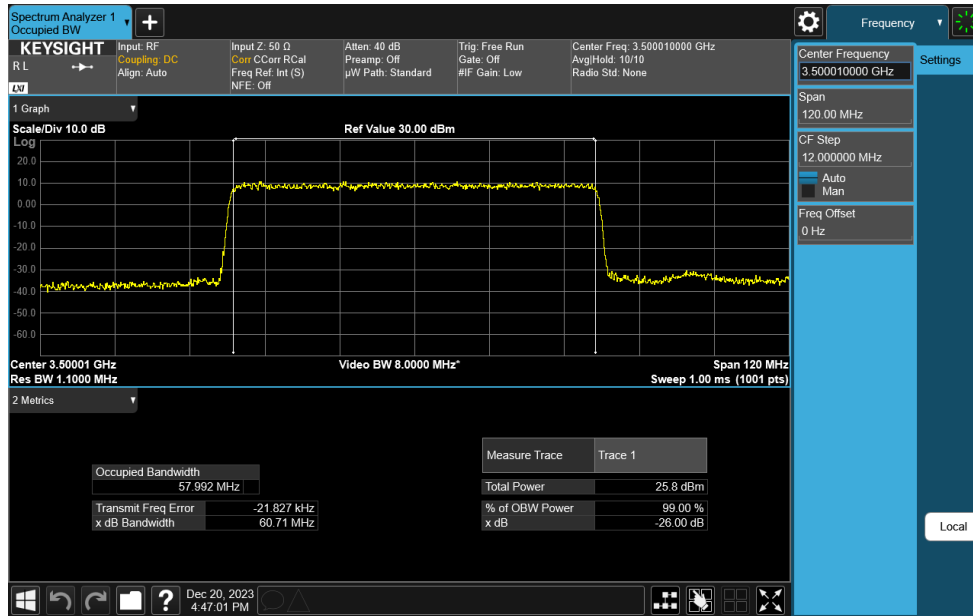


**Plot 7-29. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 64-QAM - Full RB)**

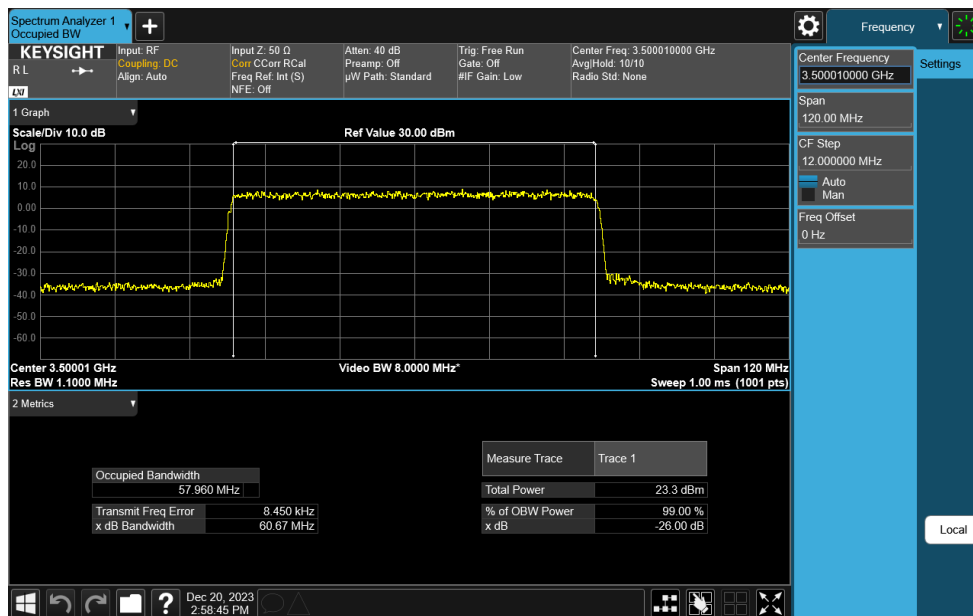


**Plot 7-30. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-31. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

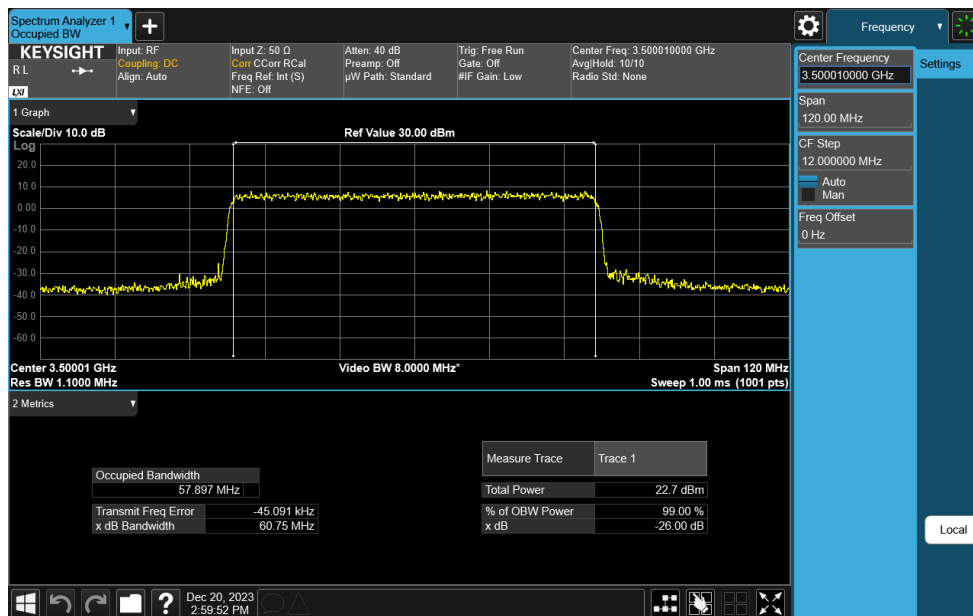


Plot 7-32. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device
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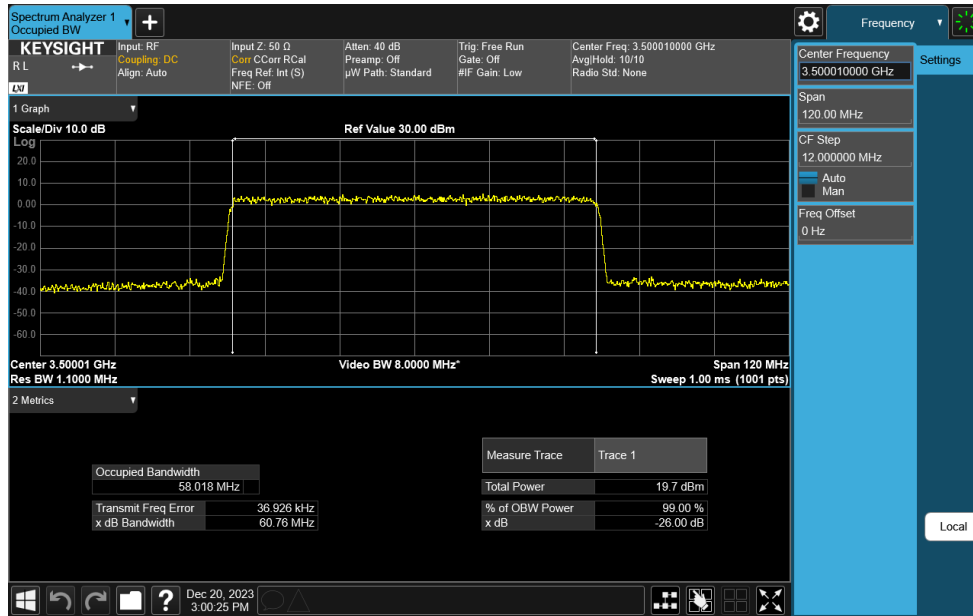


**Plot 7-33. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 16-QAM - Full RB)**

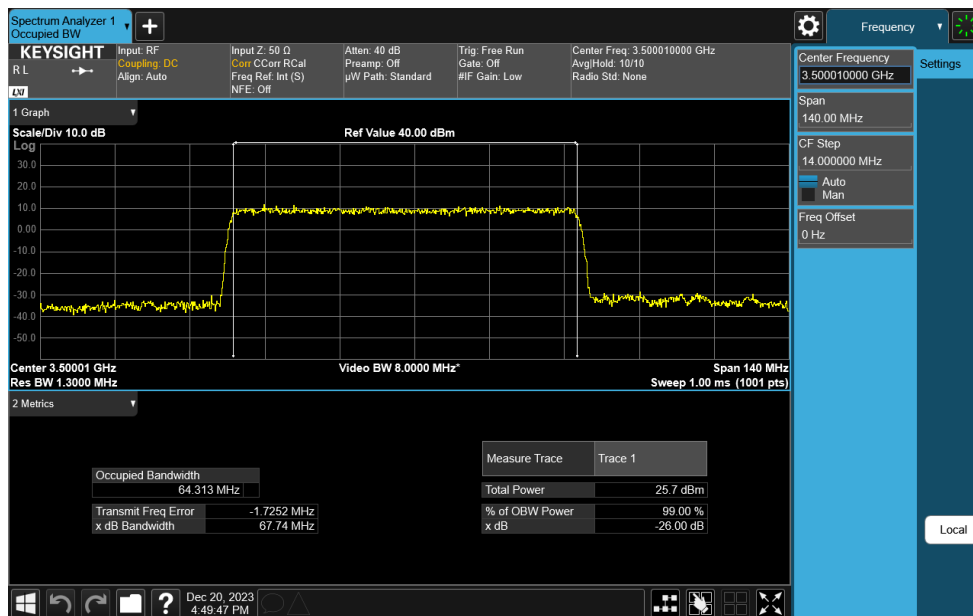


**Plot 7-34. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 64-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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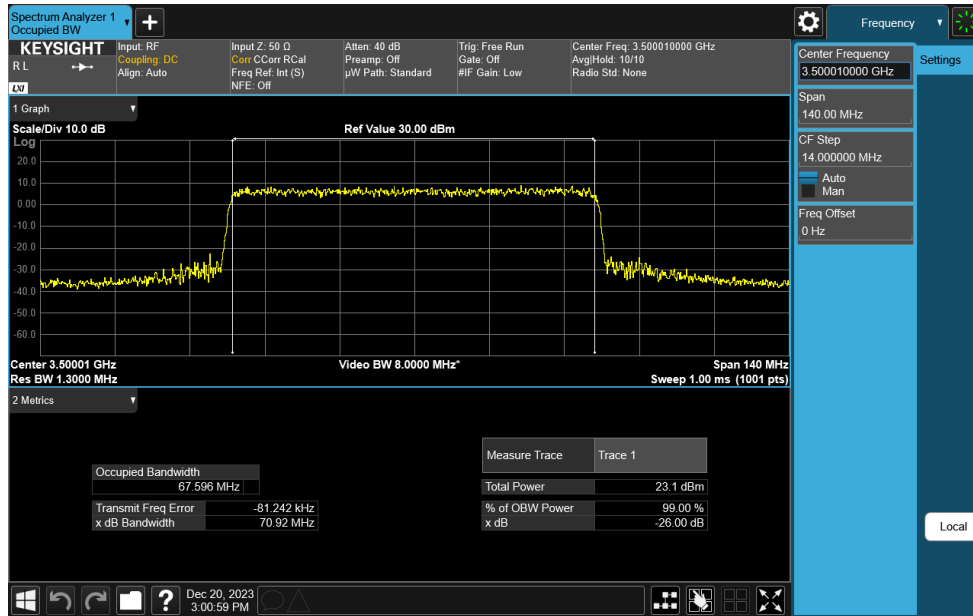


**Plot 7-35. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 256-QAM - Full RB)**

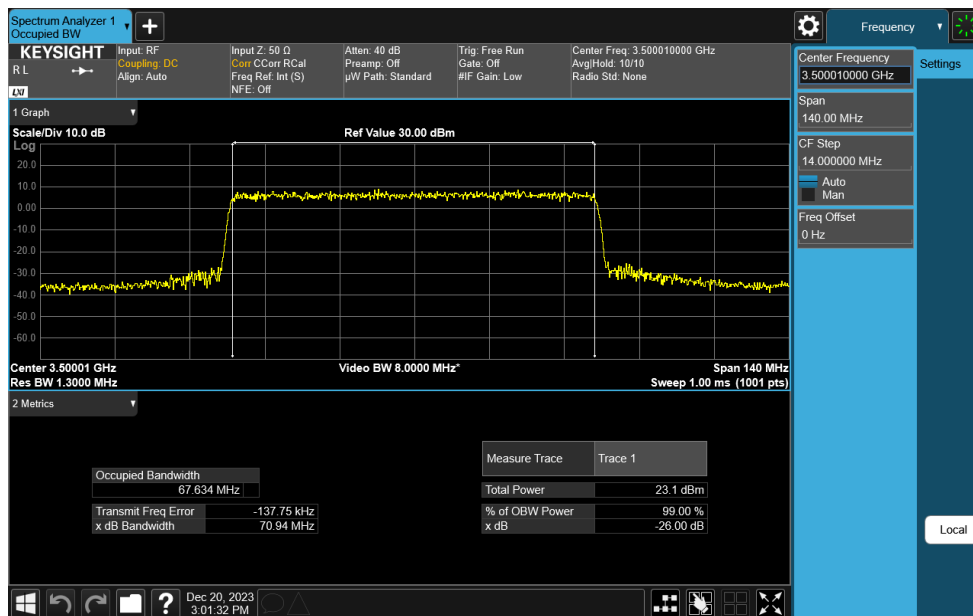


**Plot 7-36. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device
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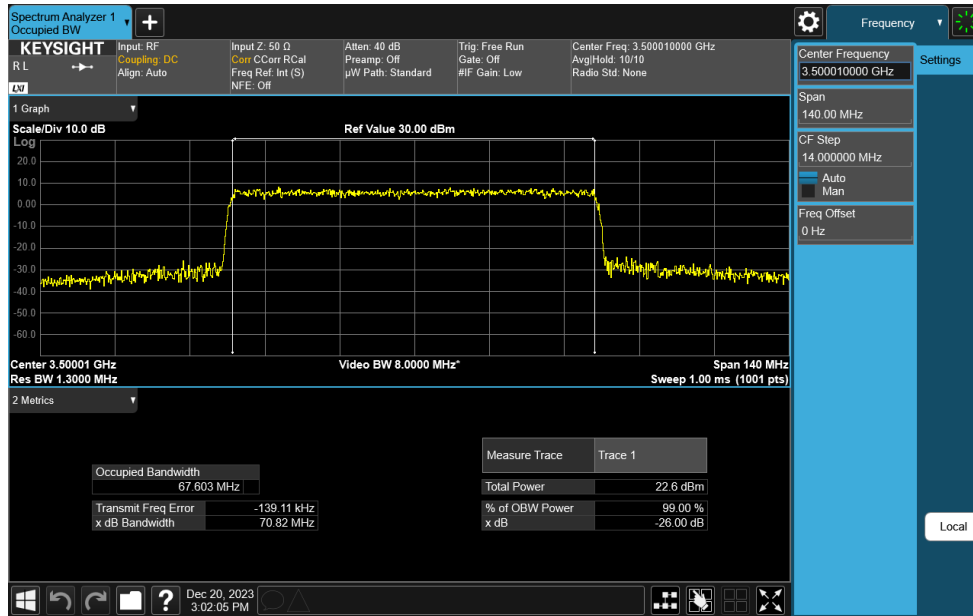


Plot 7-37. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM QPSK - Full RB)

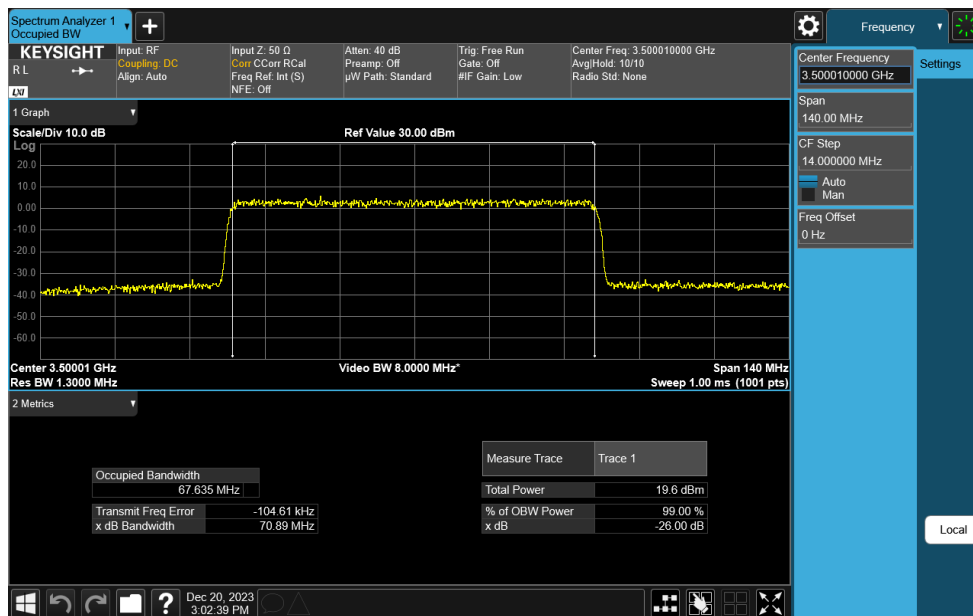


Plot 7-38. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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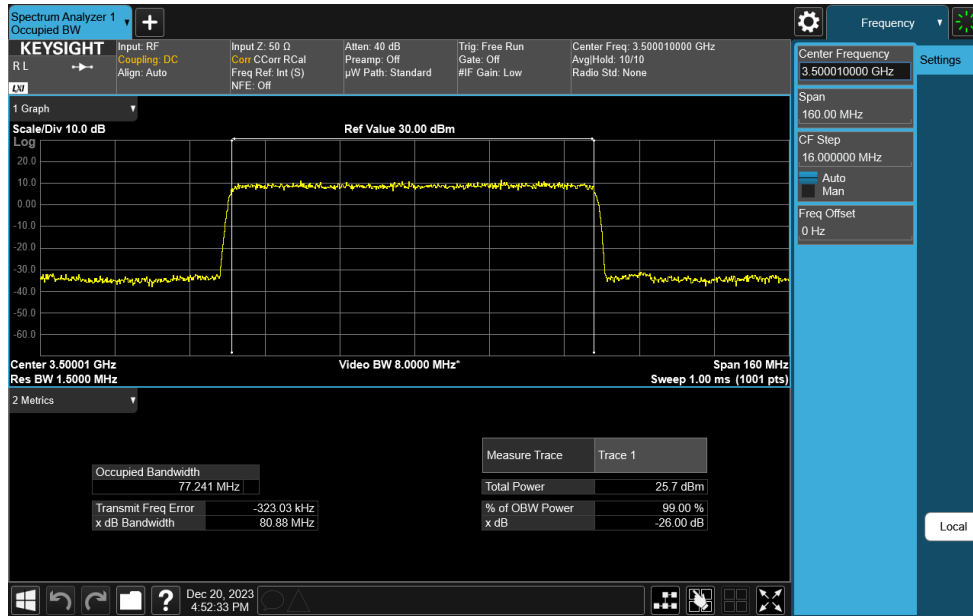
**Plot 7-39. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 64-QAM - Full RB)**



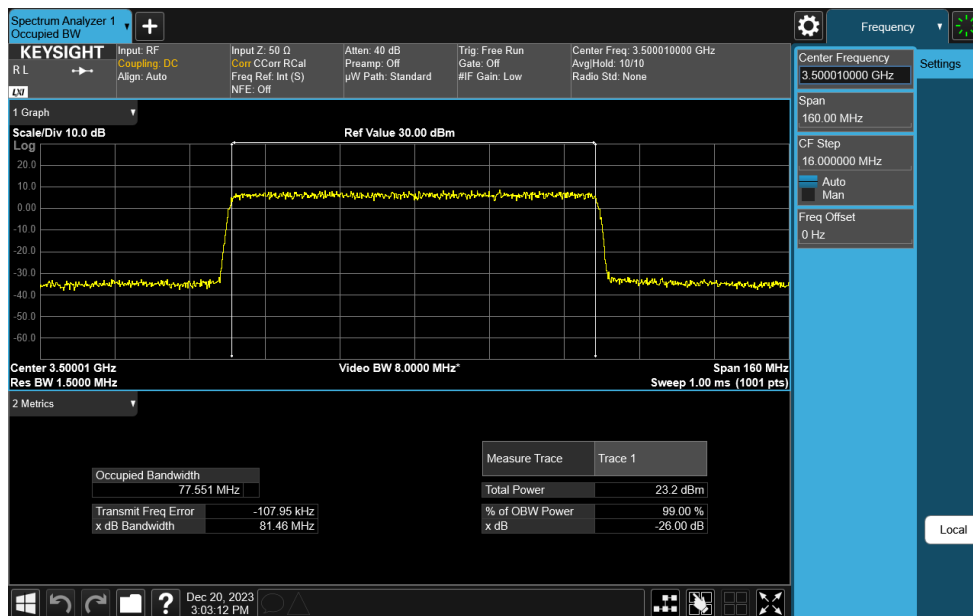
**Plot 7-40. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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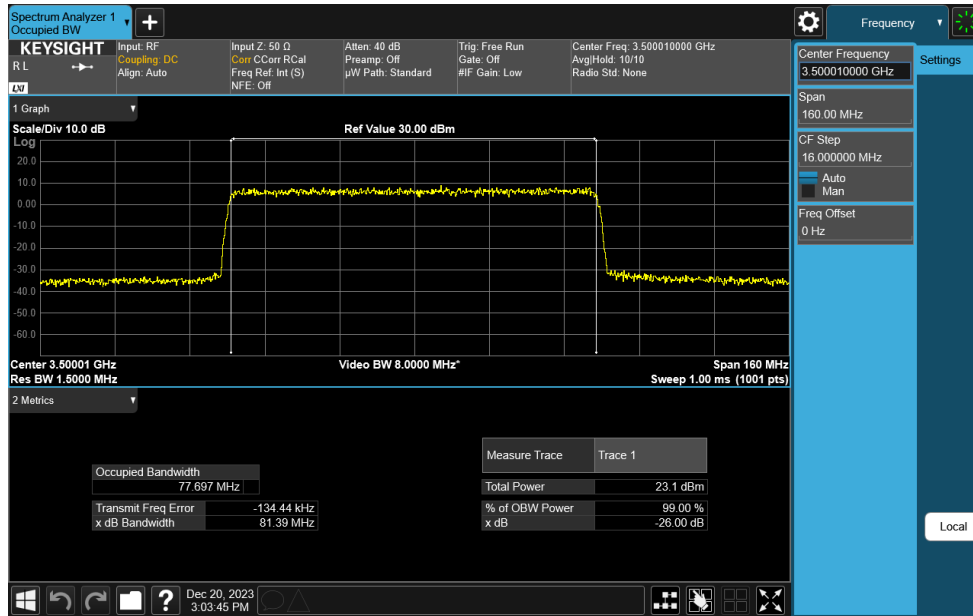


Plot 7-41. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

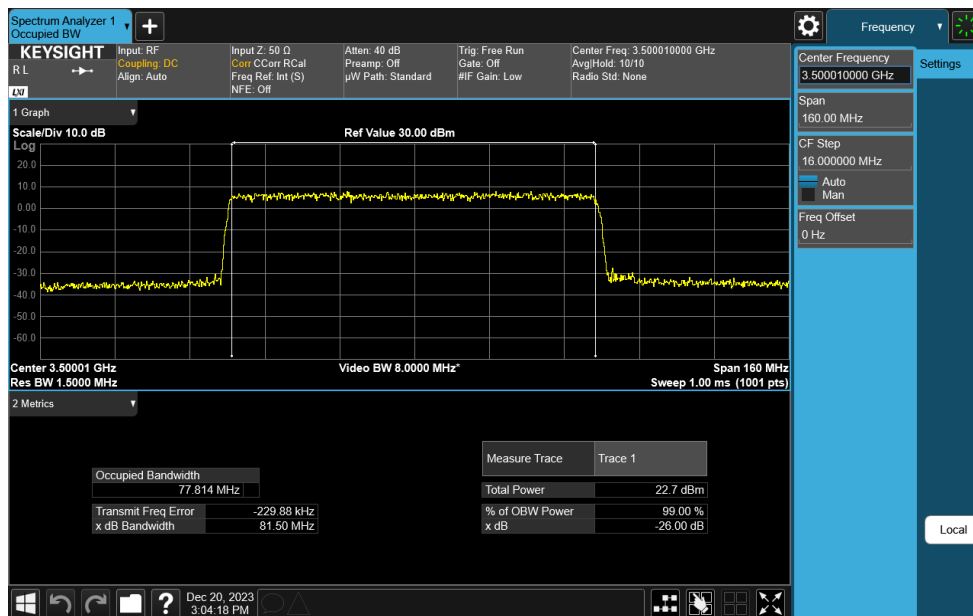


Plot 7-42. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device
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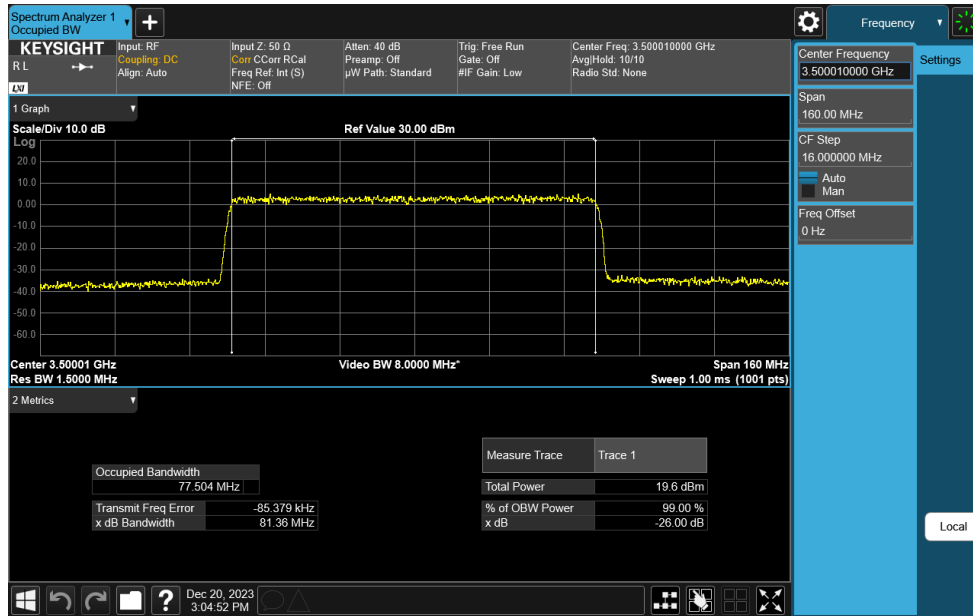


**Plot 7-43. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 16-QAM - Full RB)**

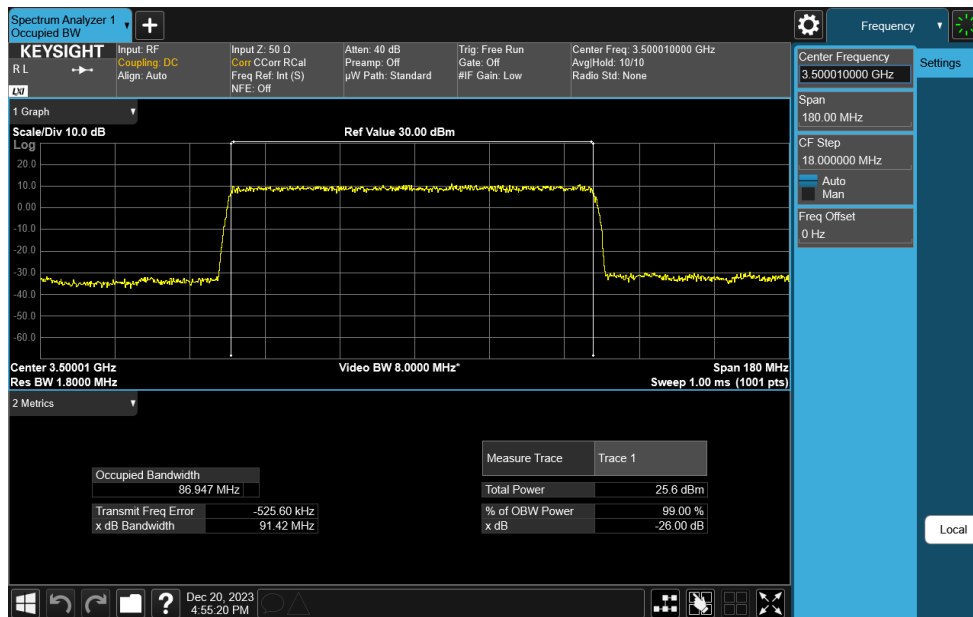


**Plot 7-44. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 64-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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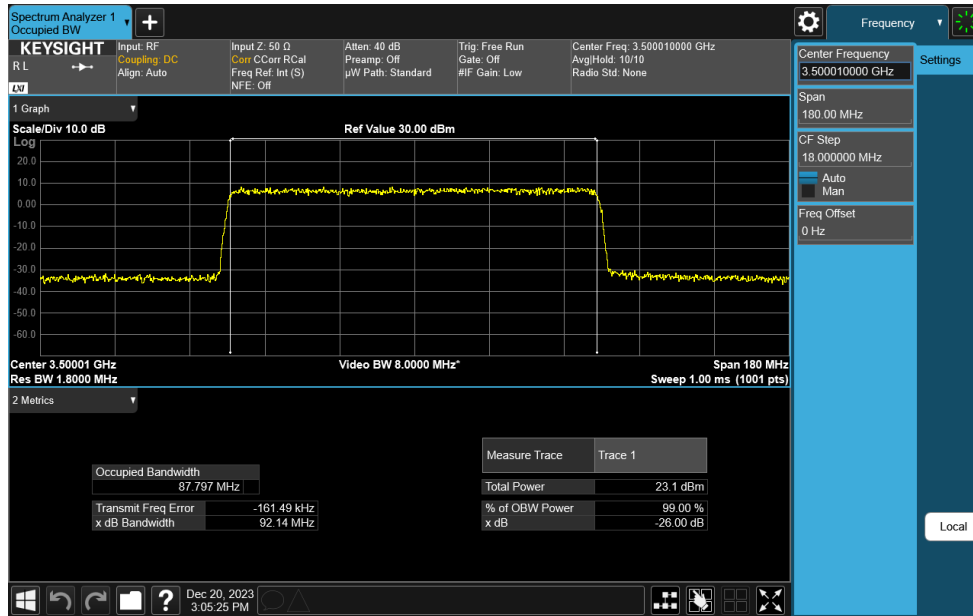


**Plot 7-45. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 256-QAM - Full RB)**

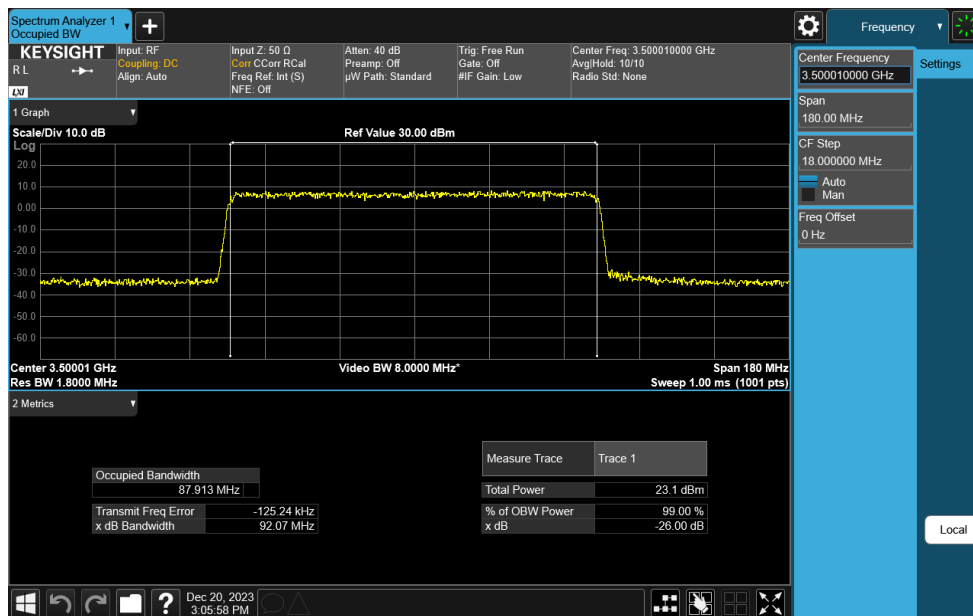


**Plot 7-46. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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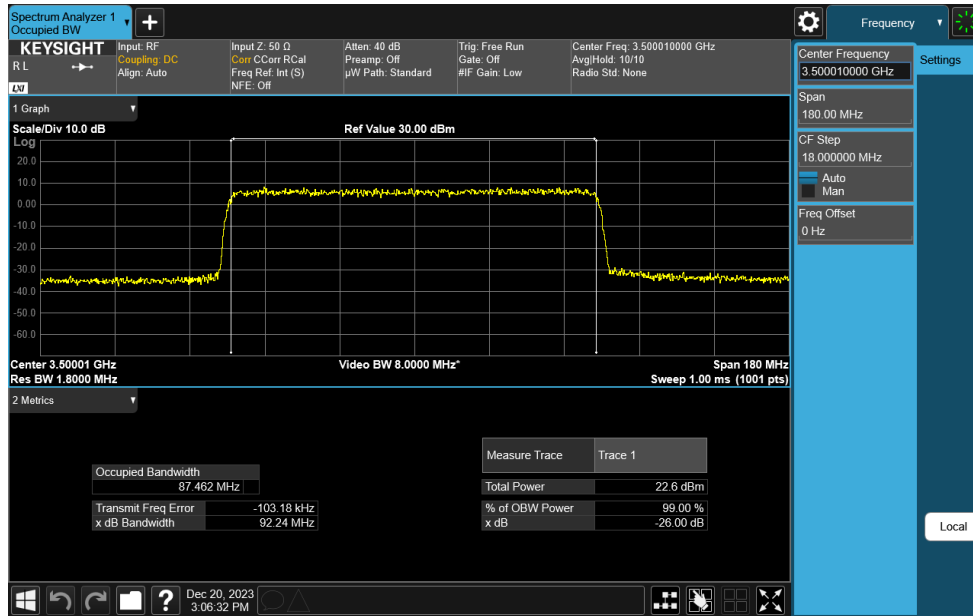


Plot 7-47. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM QPSK - Full RB)

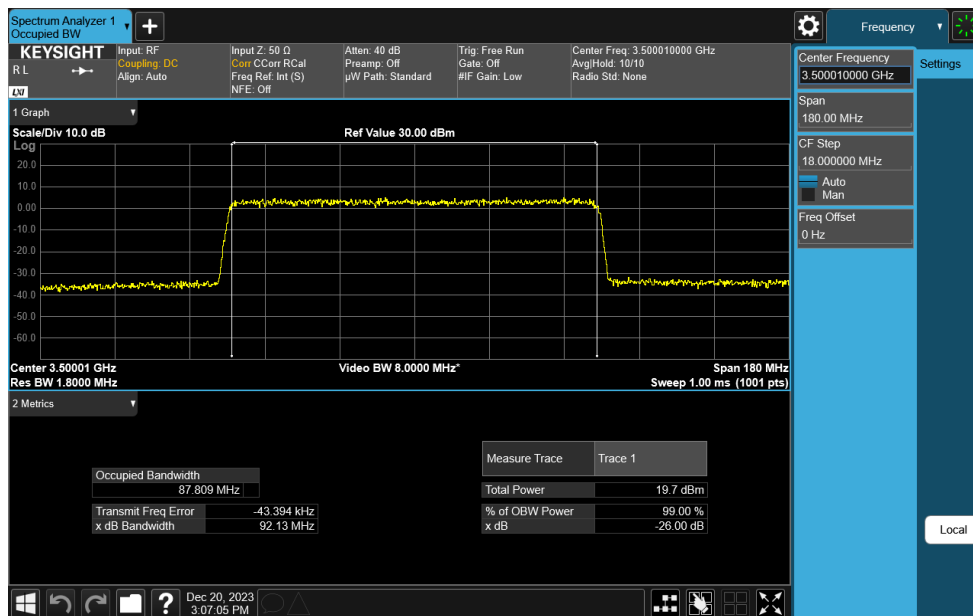


Plot 7-48. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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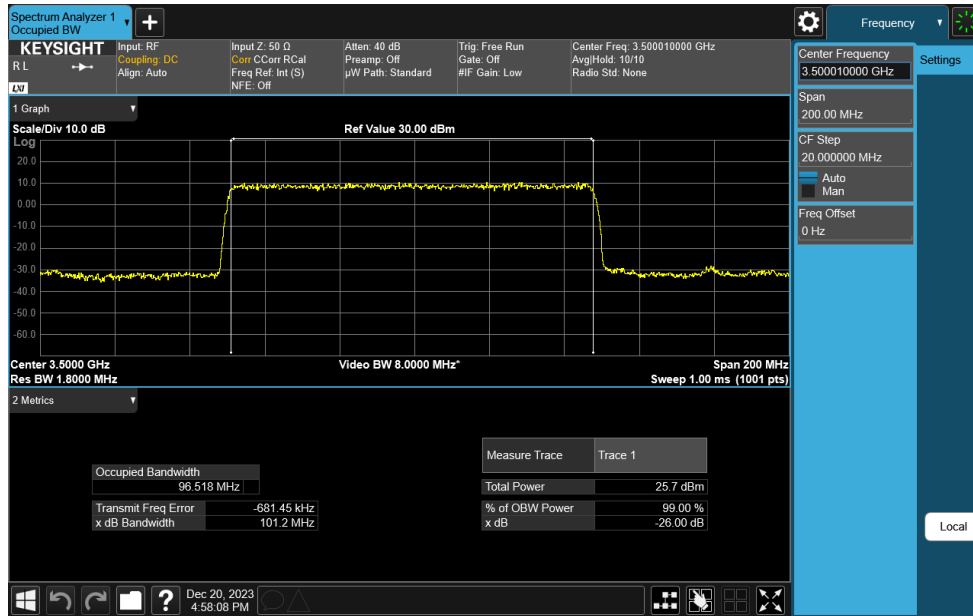


**Plot 7-49. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 64-QAM - Full RB)**

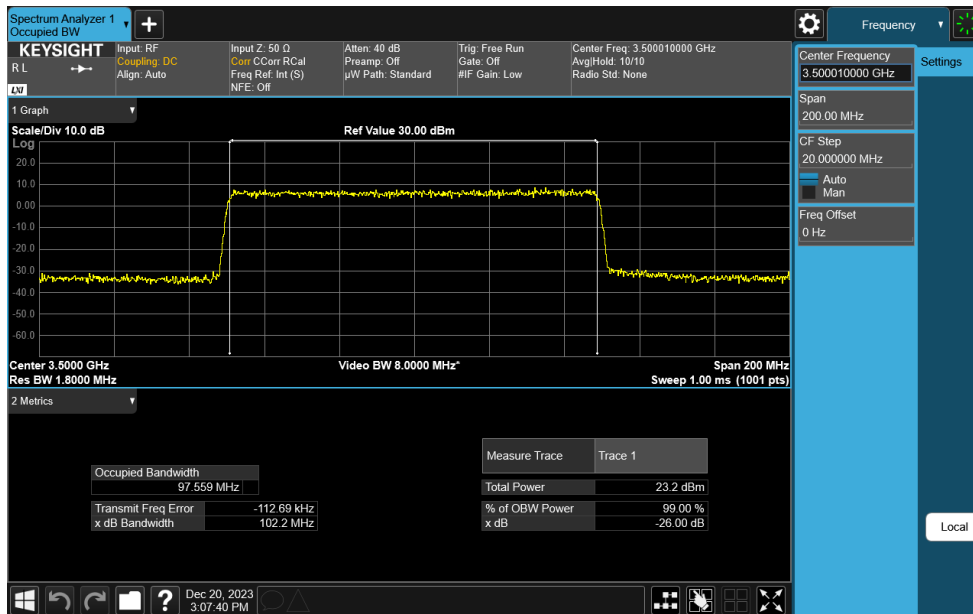


**Plot 7-50. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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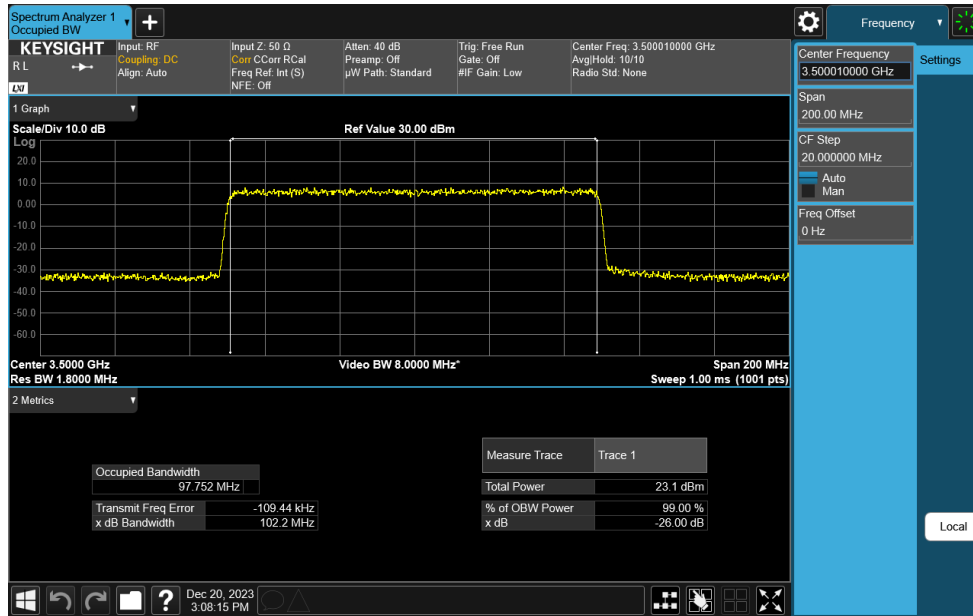


Plot 7-51. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

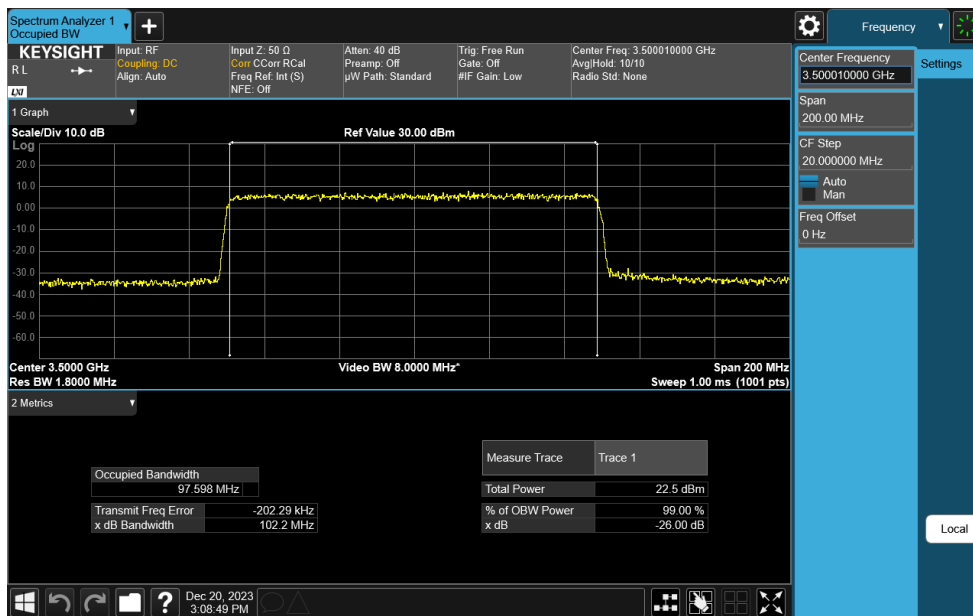


Plot 7-52. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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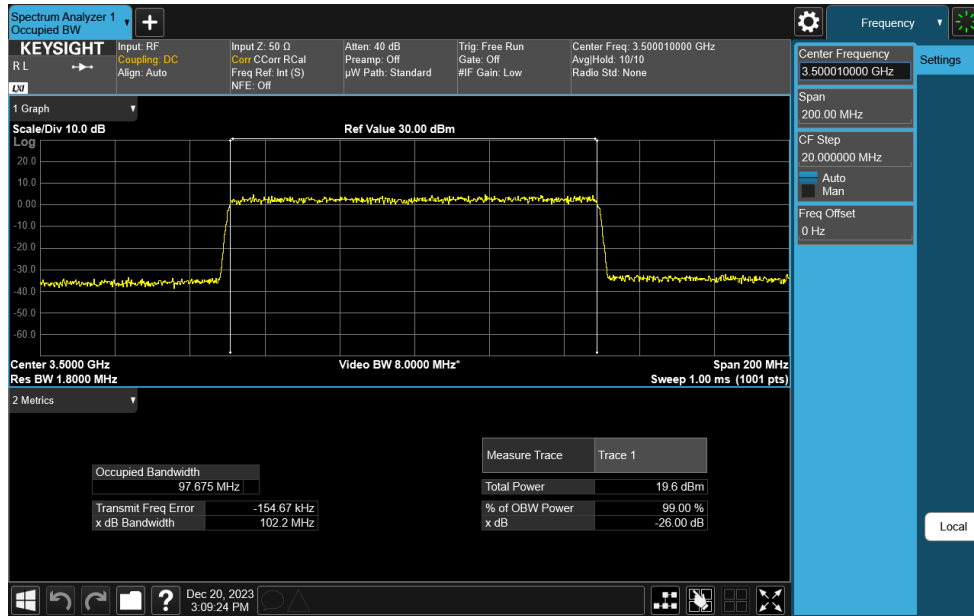


**Plot 7-53. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 16-QAM - Full RB)**



**Plot 7-54. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 64-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270070-11.BCG	Test Dates: 10/1/2023 - 3/20/2024	EUT Type: Tablet Device
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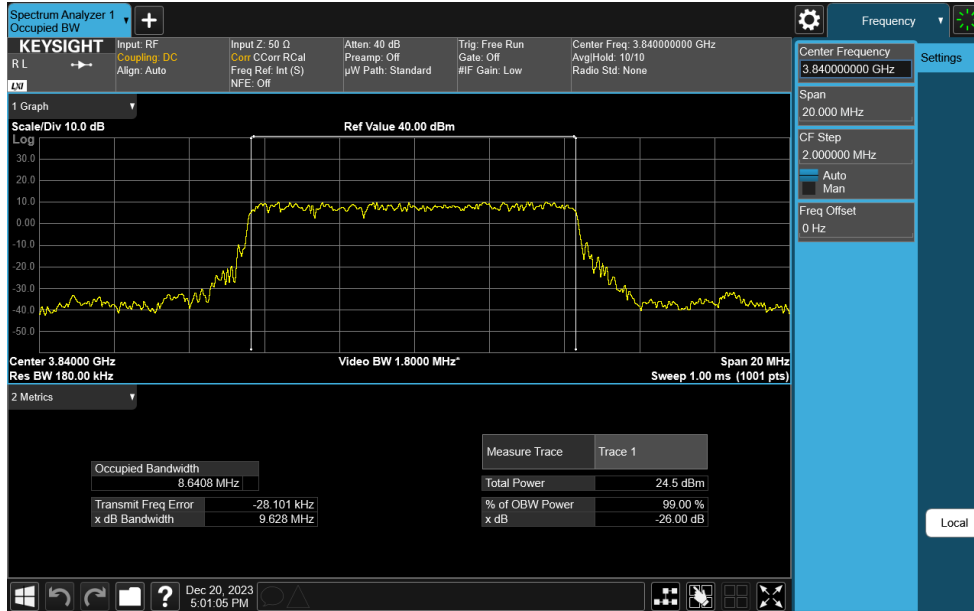


Plot 7-55. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 256-QAM - Full RB)

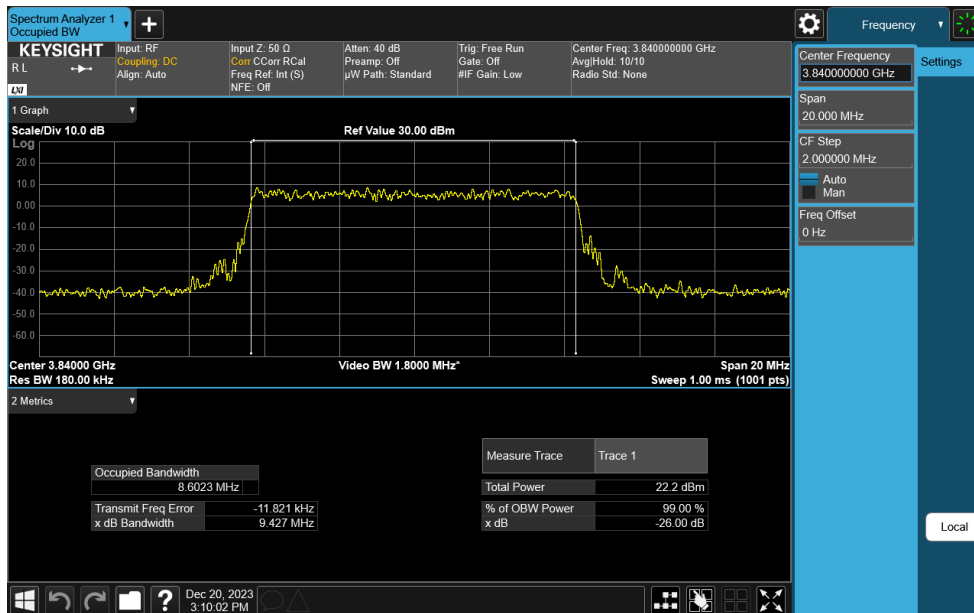
FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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	EUT Type: Tablet Device	



# NR Band n77 C-Band

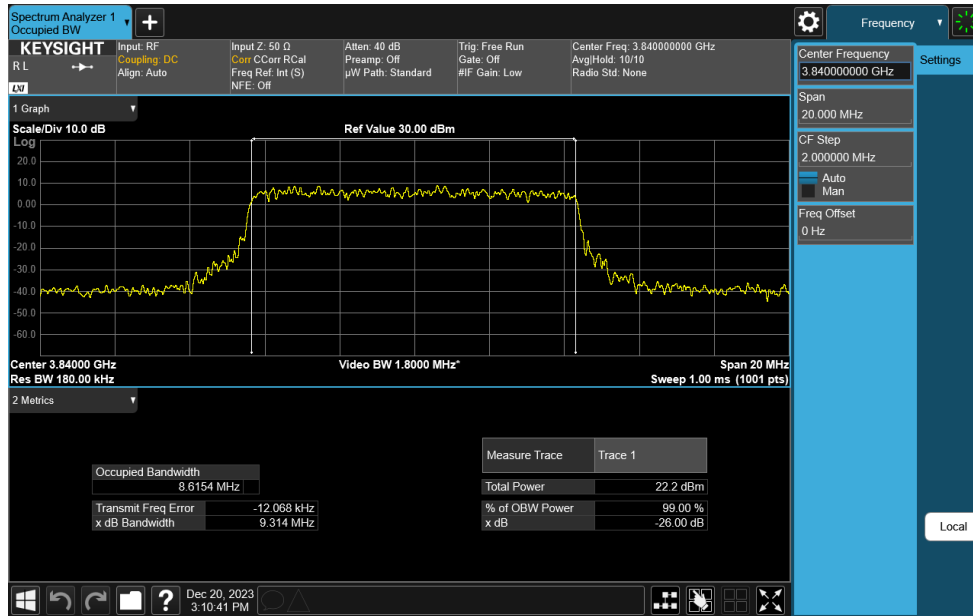


Plot 7-56. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

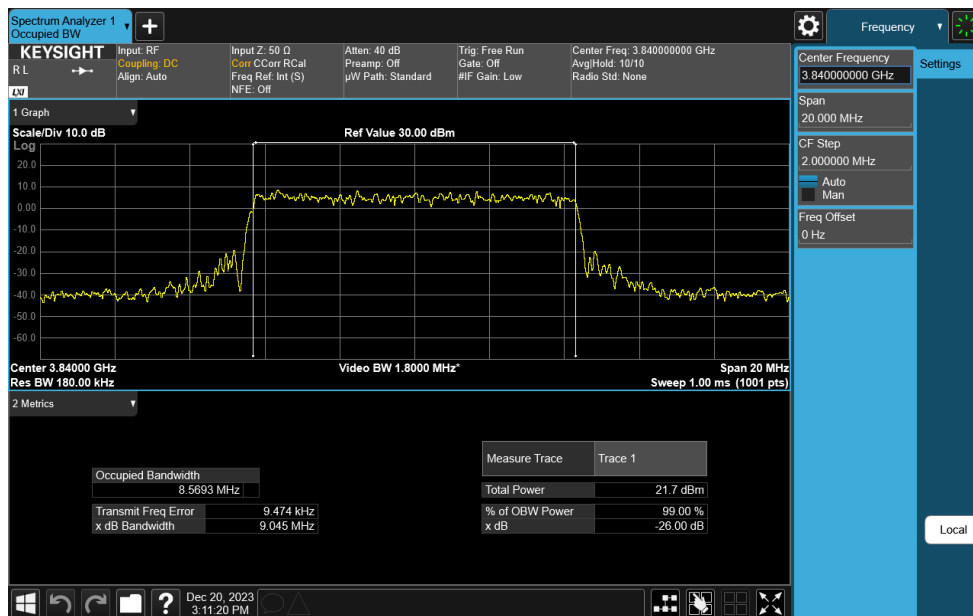


Plot 7-57. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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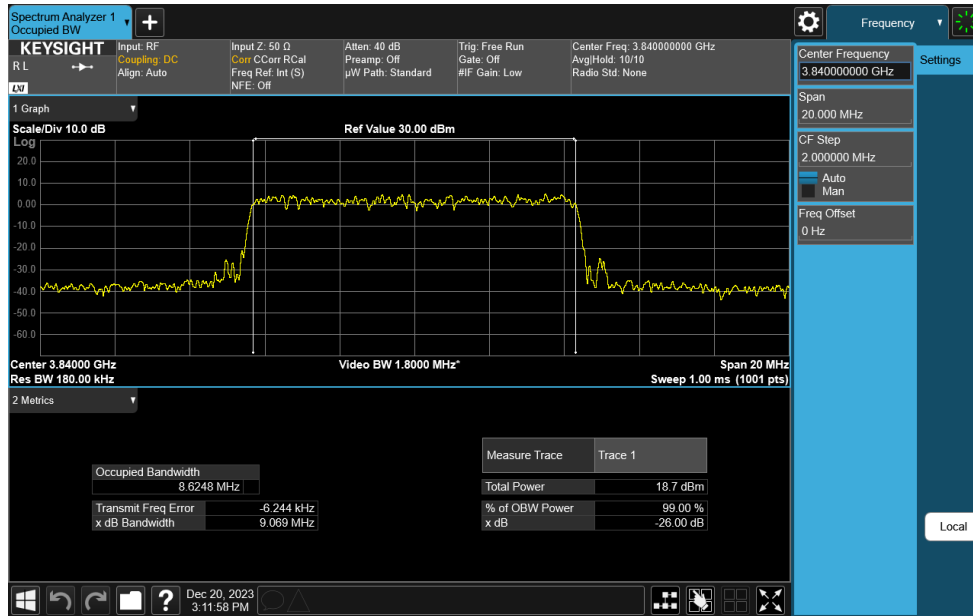


**Plot 7-58. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 16-QAM - Full RB)**

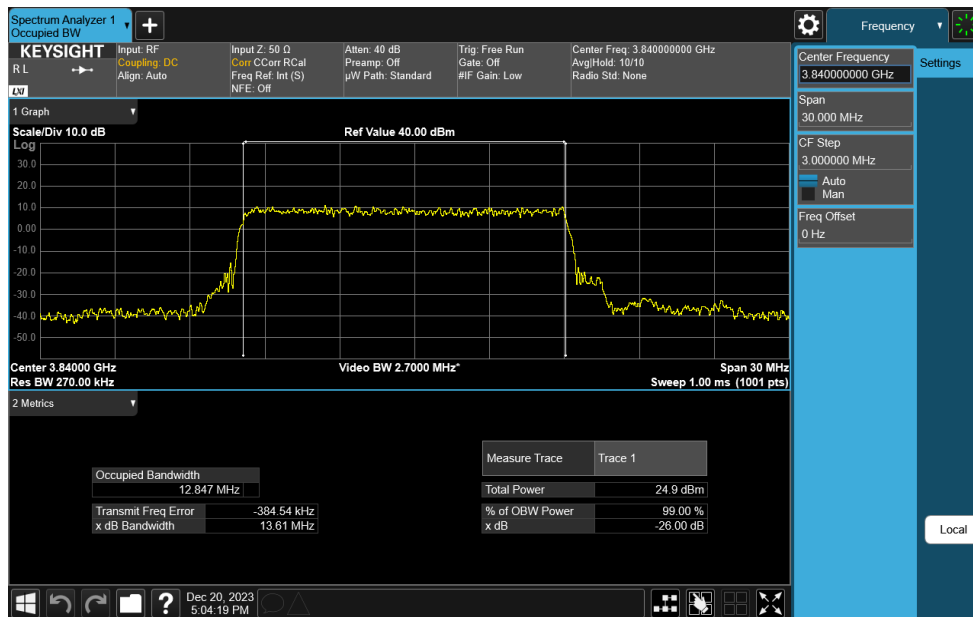


**Plot 7-59. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 64-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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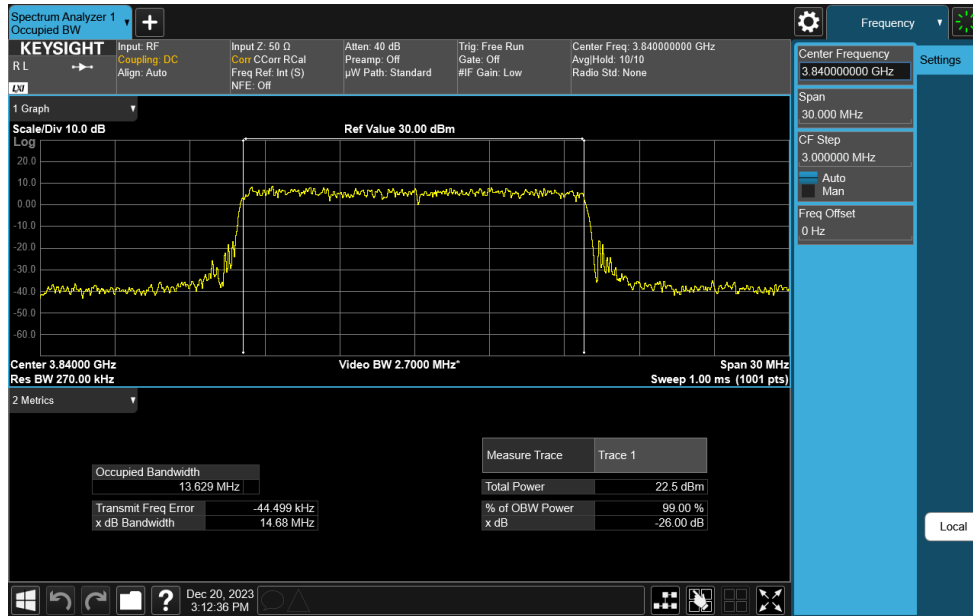


**Plot 7-60. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 256-QAM - Full RB)**

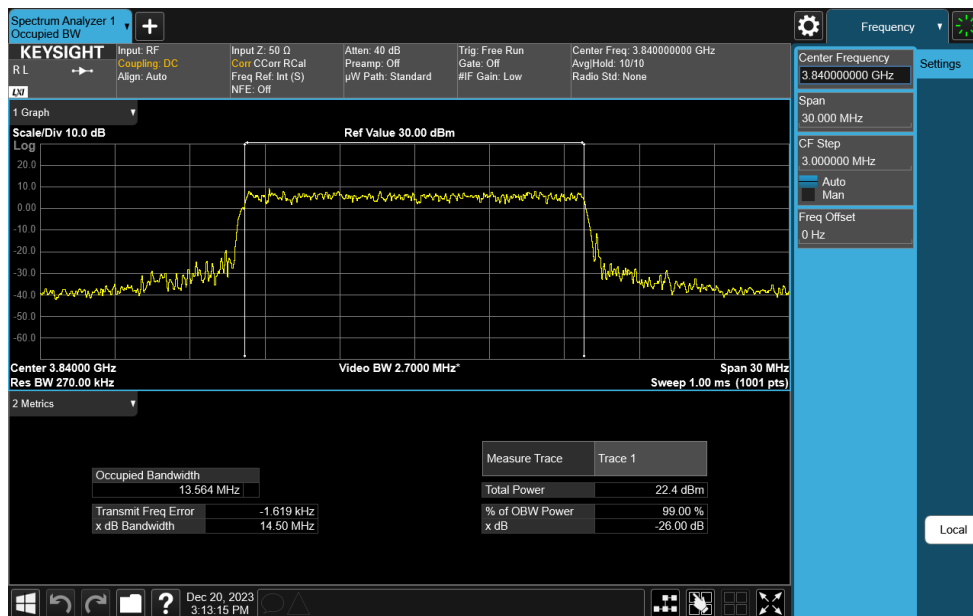


**Plot 7-61. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz DFT-s-OFDM π/2 BPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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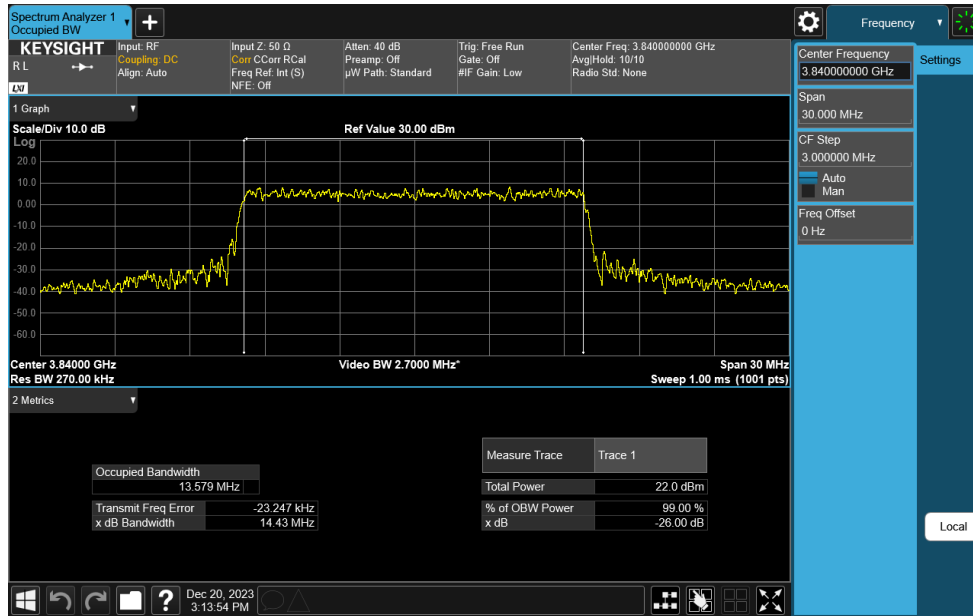


Plot 7-62. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM QPSK - Full RB)

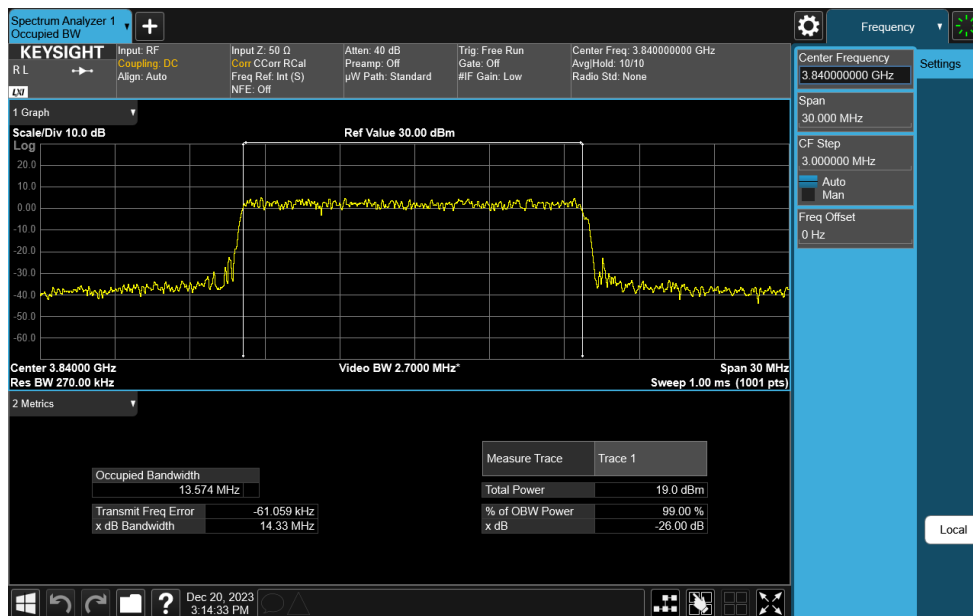


Plot 7-63. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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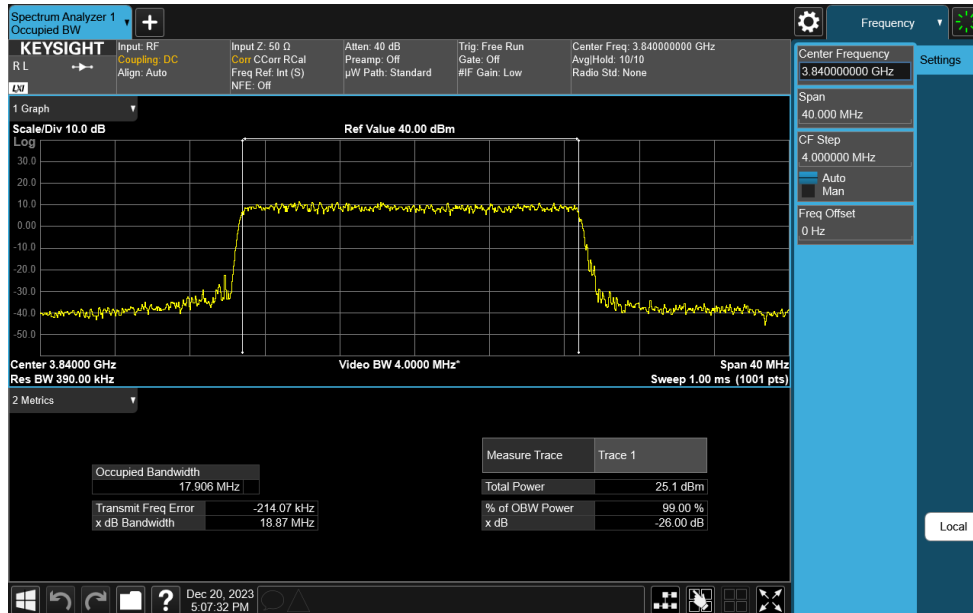


**Plot 7-64. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 64-QAM - Full RB)**

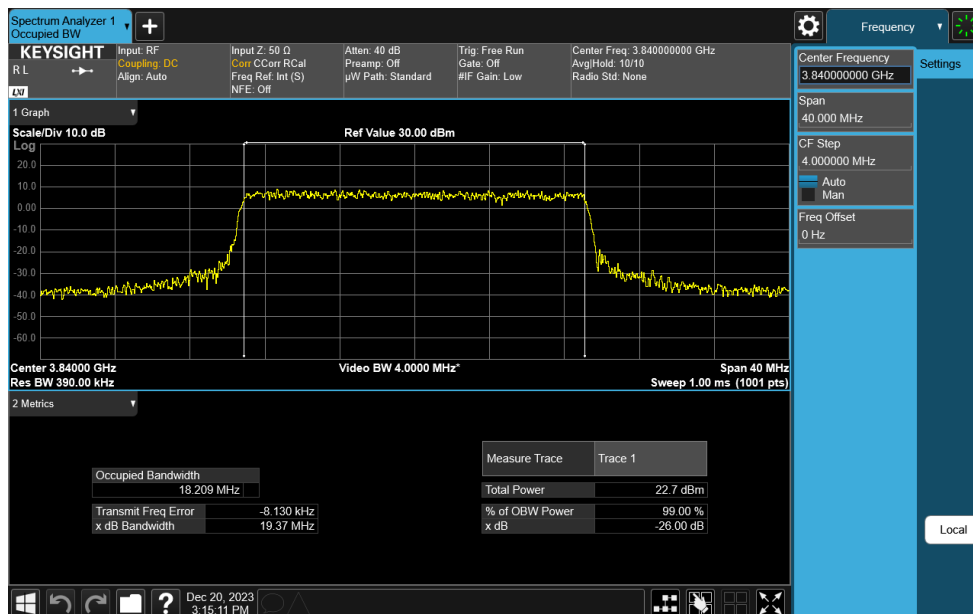


**Plot 7-65. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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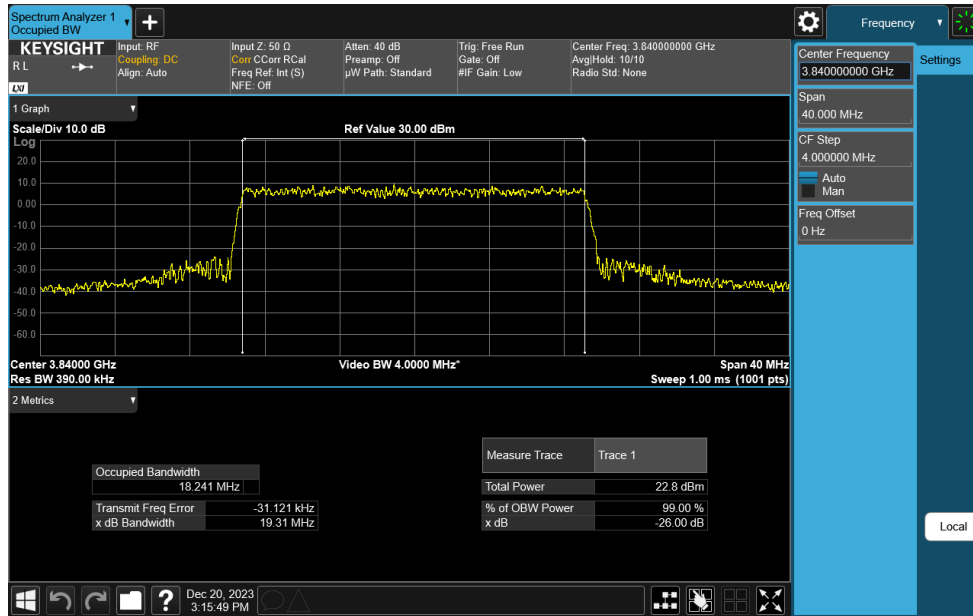


**Plot 7-66. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)**

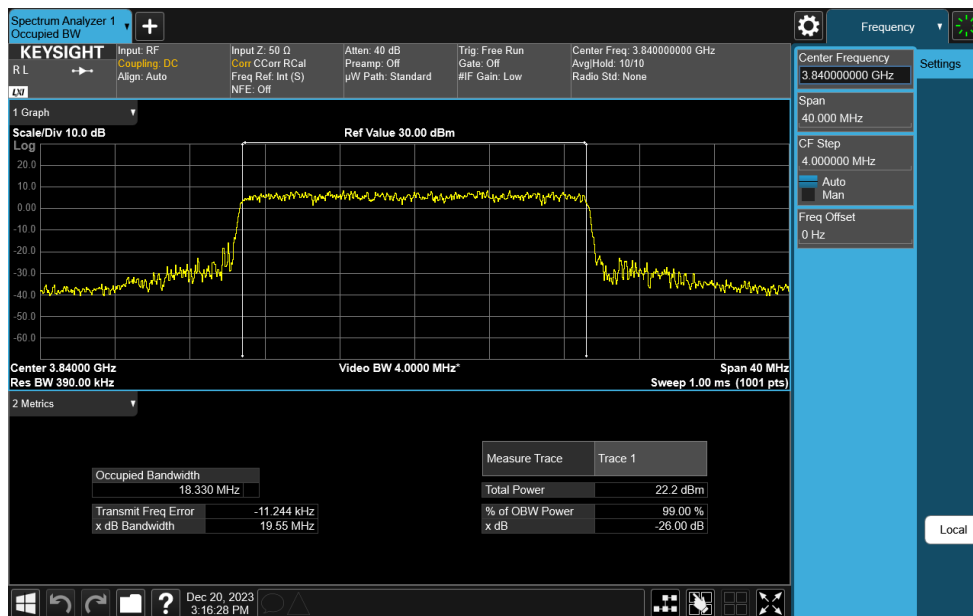


**Plot 7-67. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM QPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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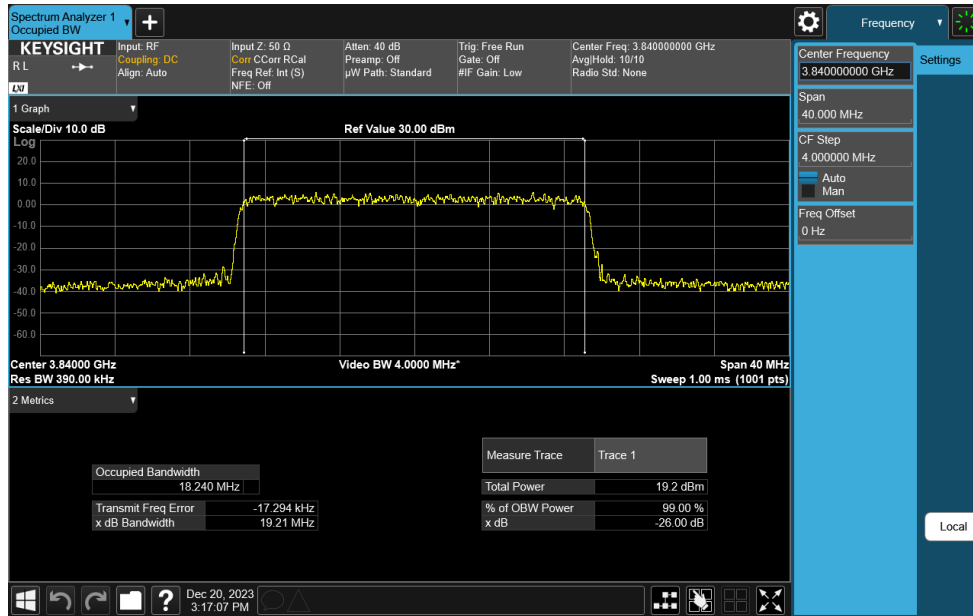


Plot 7-68. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM 16-QAM - Full RB)

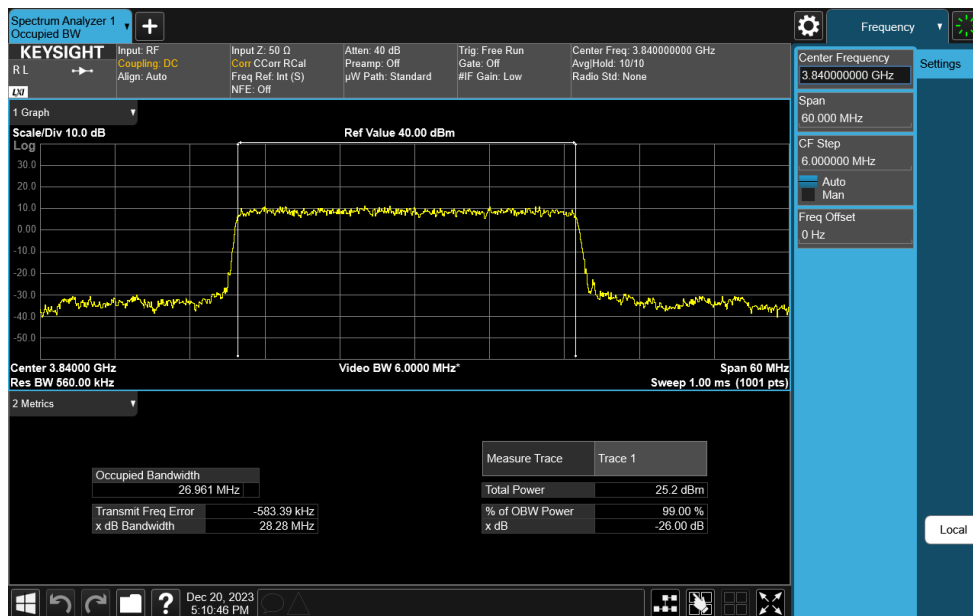


Plot 7-69. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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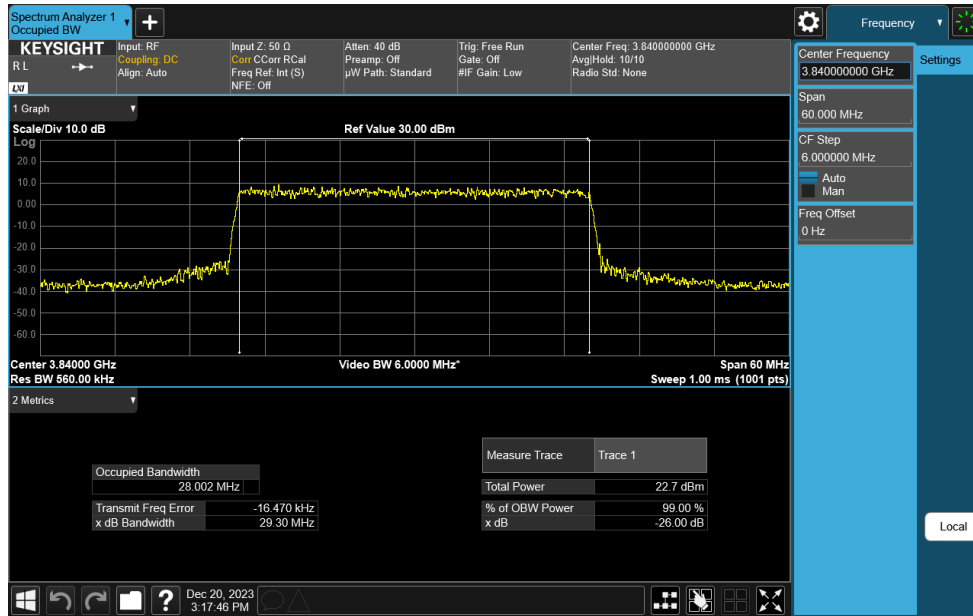
**Plot 7-70. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM 256-QAM - Full RB)**



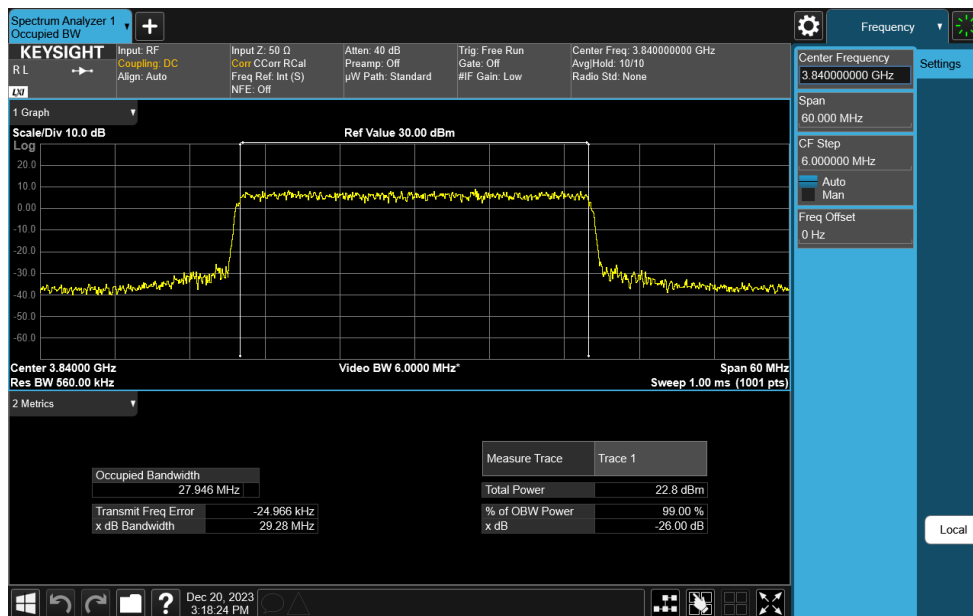
**Plot 7-71. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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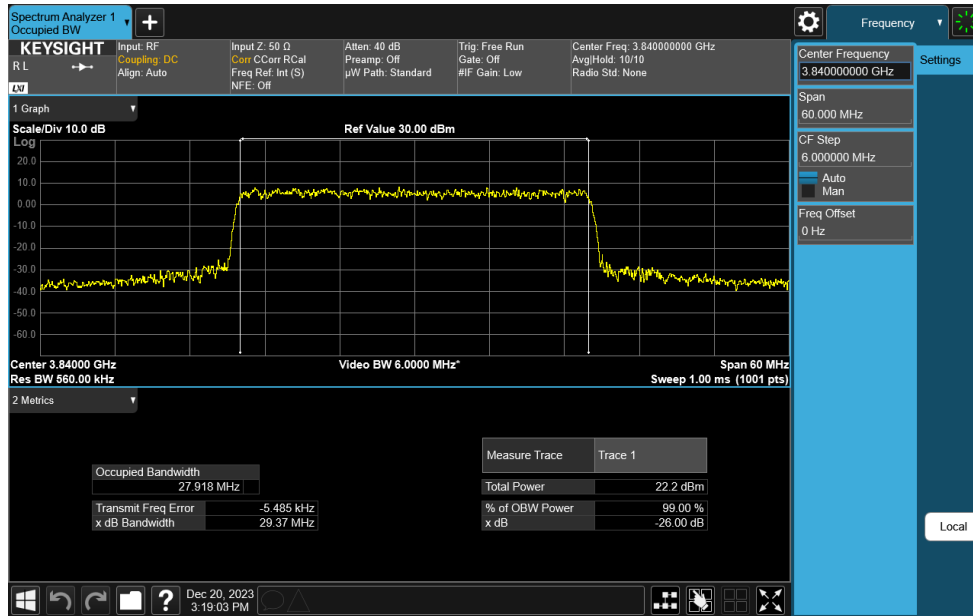


**Plot 7-72. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM QPSK - Full RB)**

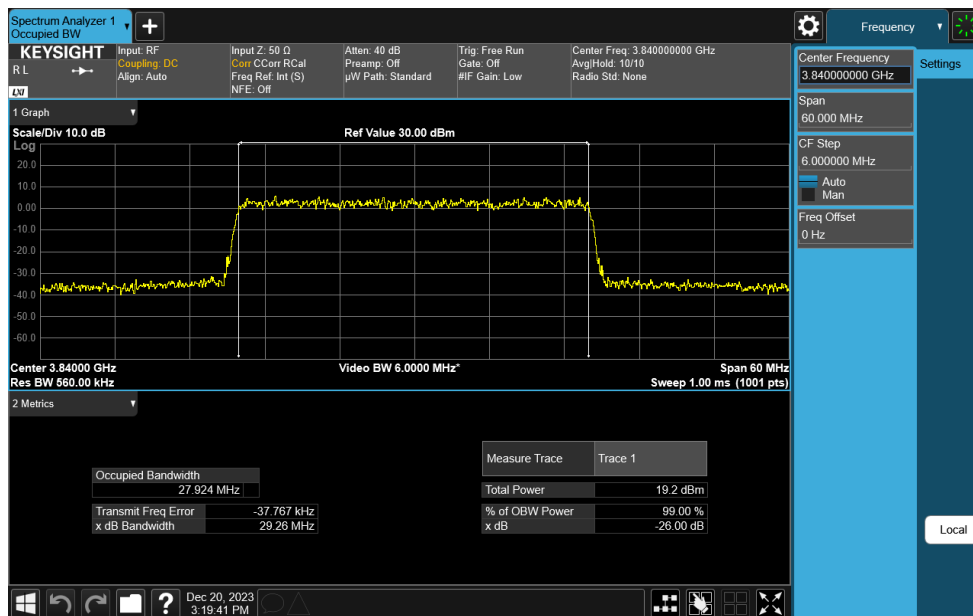


**Plot 7-73. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 16-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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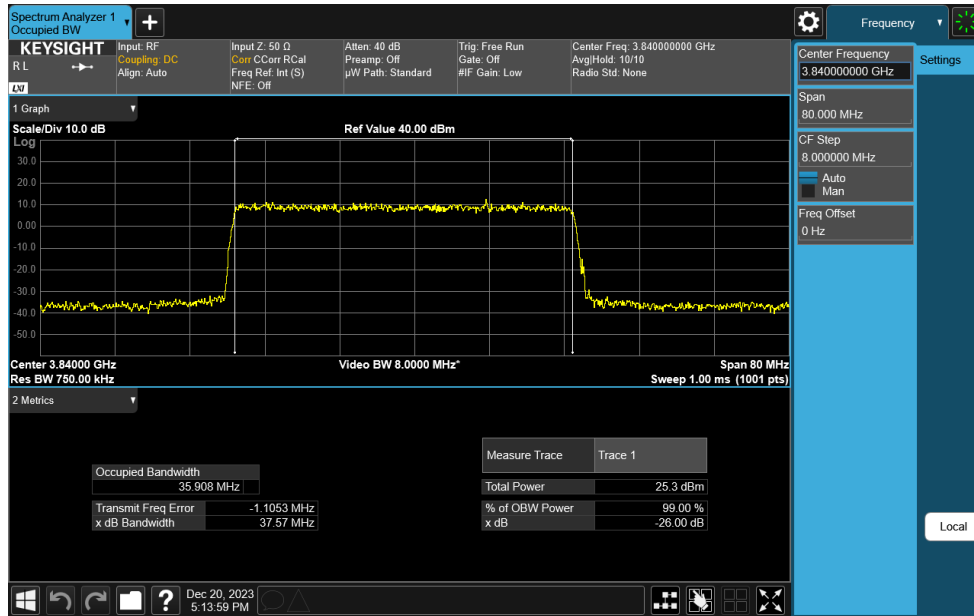


Plot 7-74. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 64-QAM - Full RB)

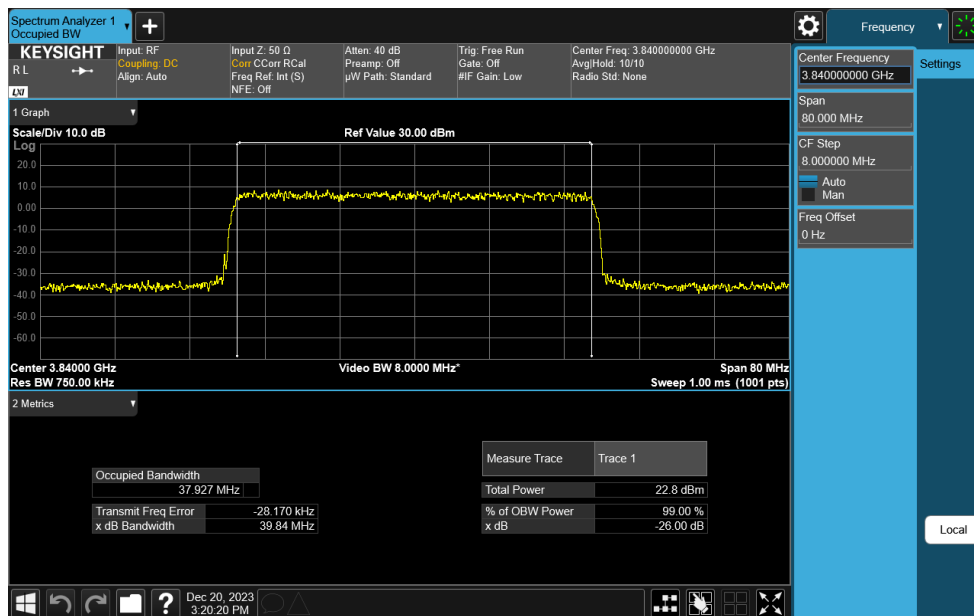


Plot 7-75. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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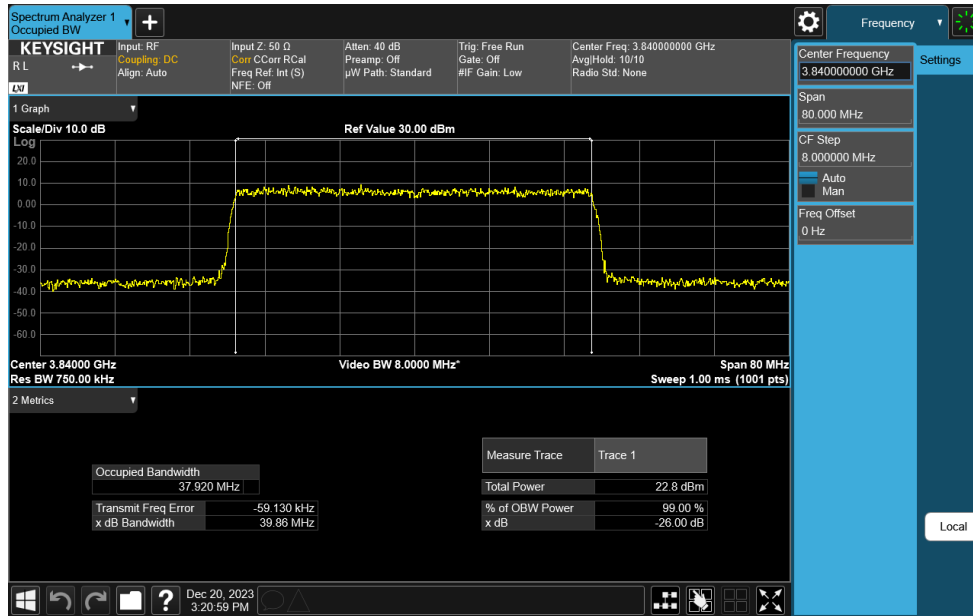


Plot 7-76. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

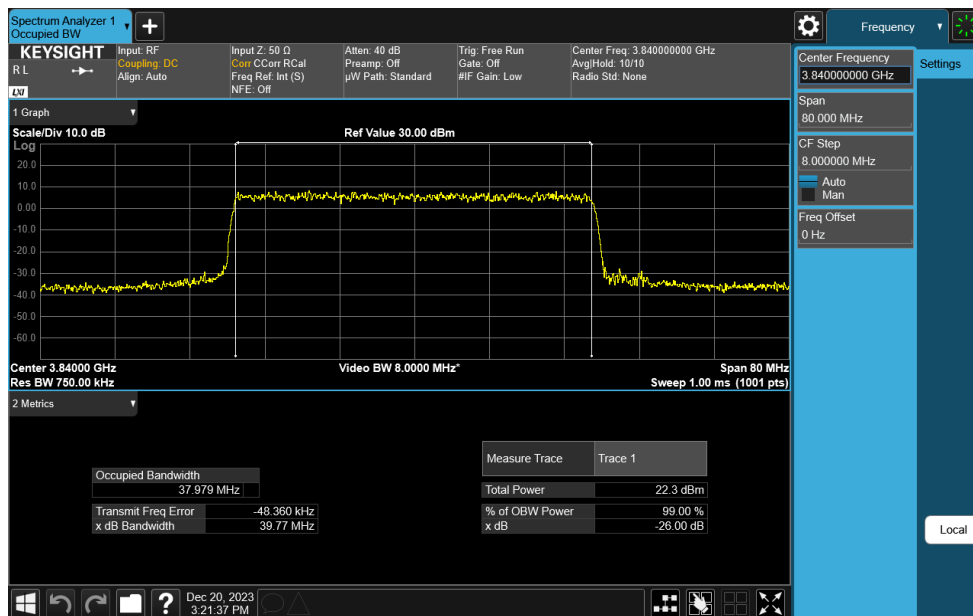


Plot 7-77. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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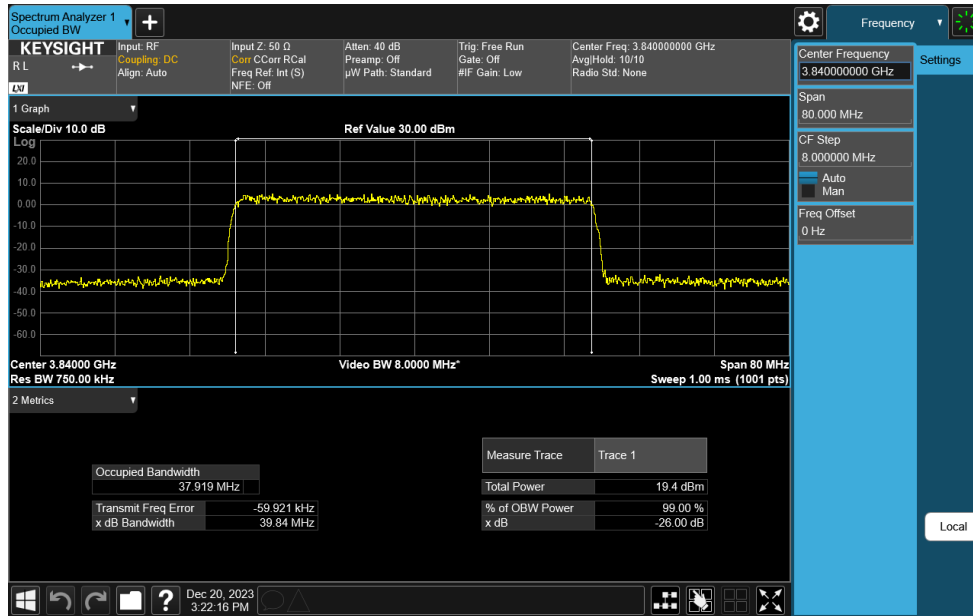


Plot 7-78. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 16-QAM - Full RB)

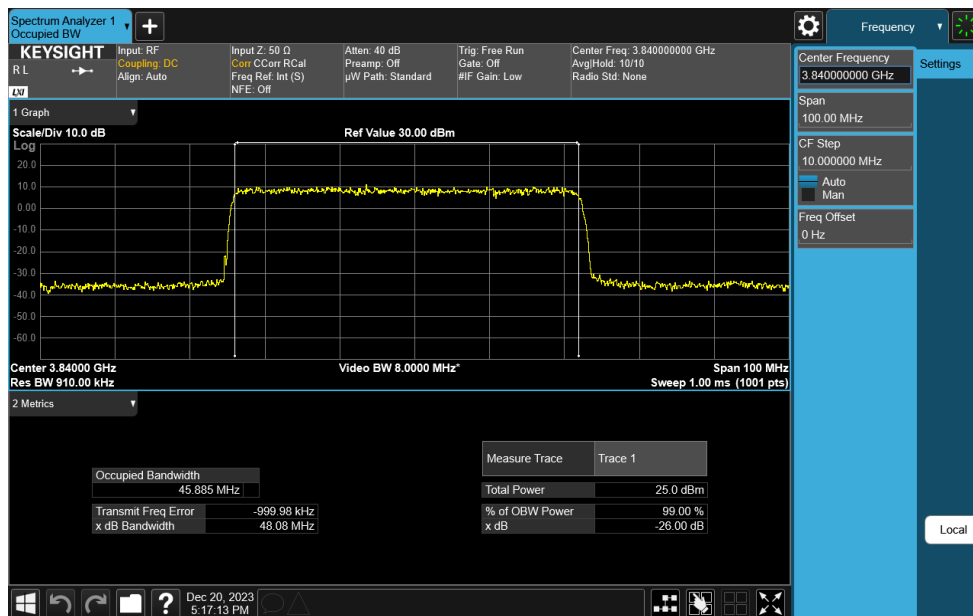


Plot 7-79. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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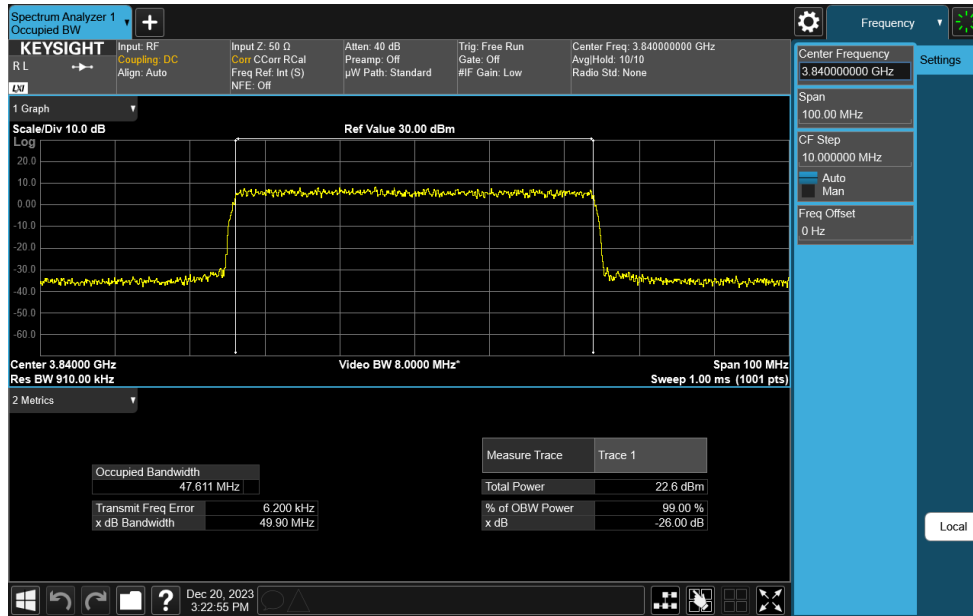


**Plot 7-80. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 256-QAM - Full RB)**

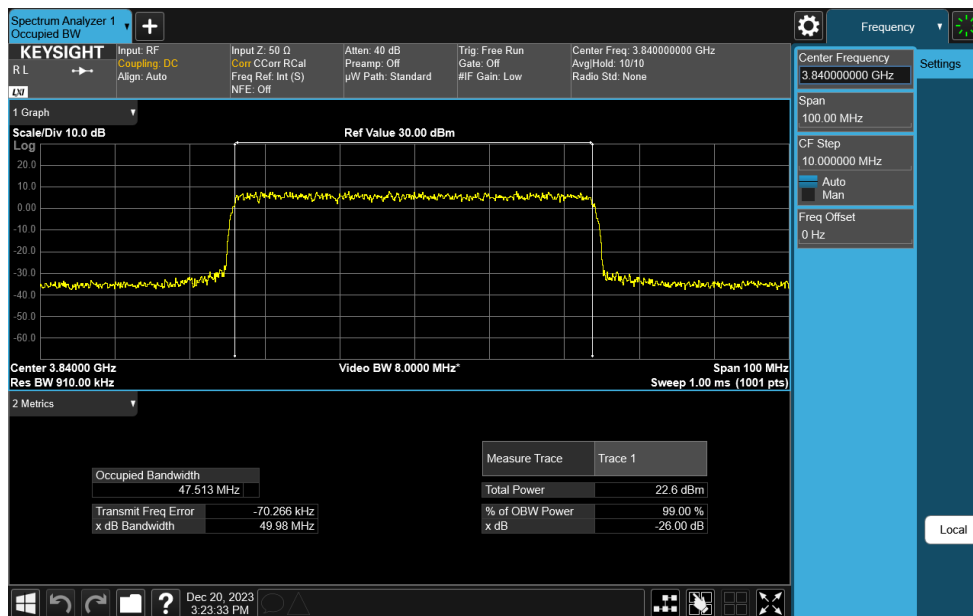


**Plot 7-81. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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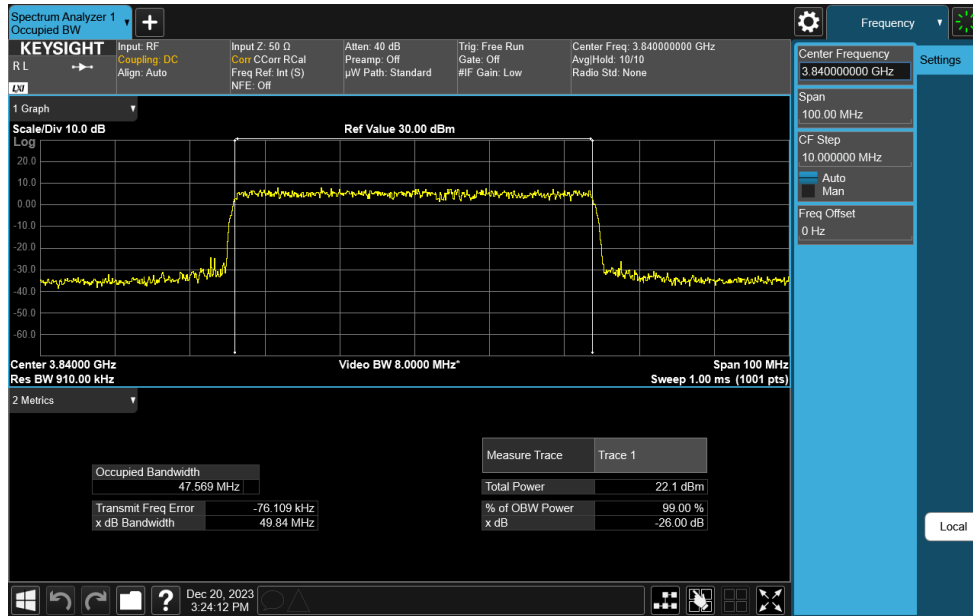


Plot 7-82. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz CP-OFDM QPSK - Full RB)

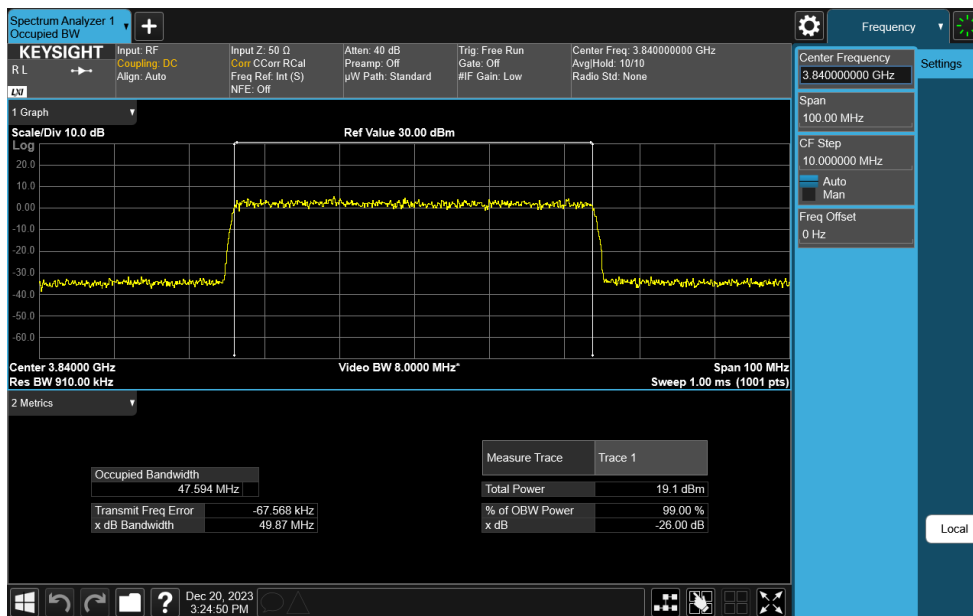


Plot 7-83. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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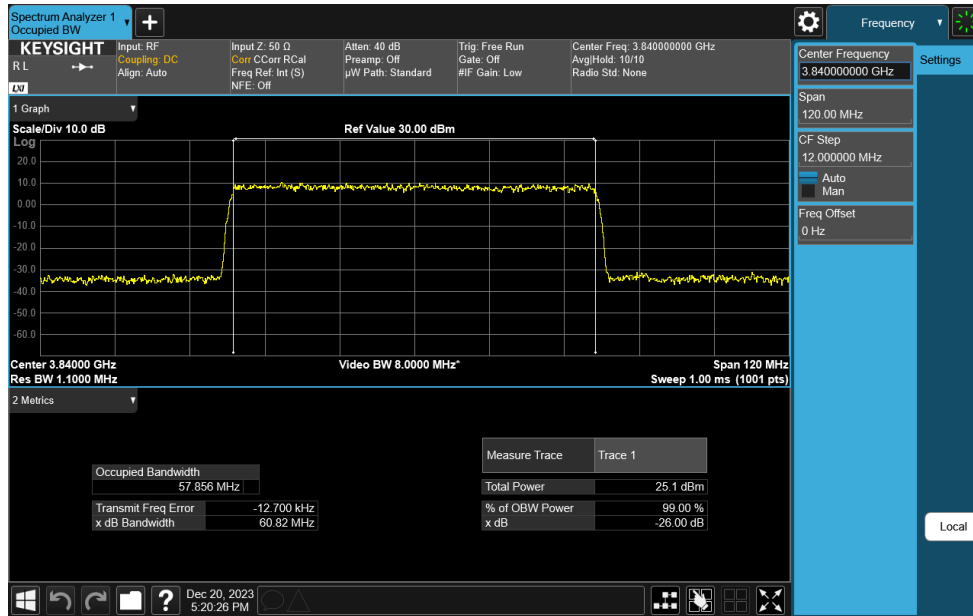


Plot 7-84. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz CP-OFDM 64-QAM - Full RB)

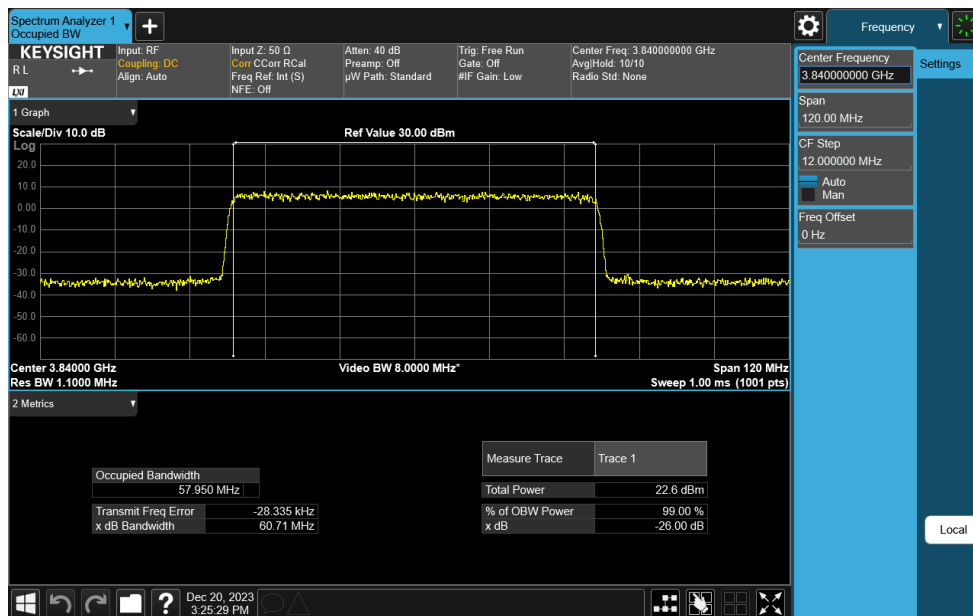


Plot 7-85. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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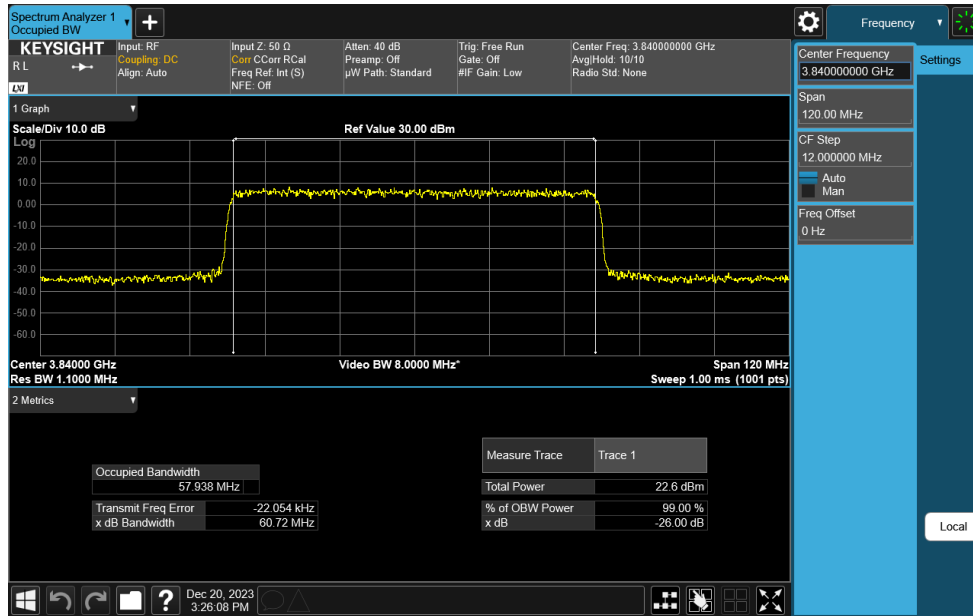
Plot 7-86. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



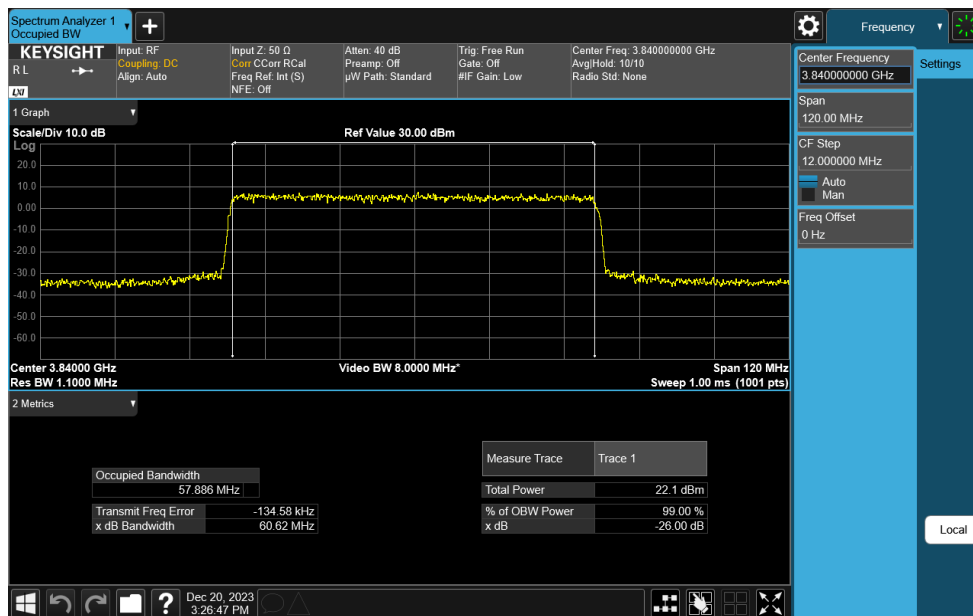
Plot 7-87. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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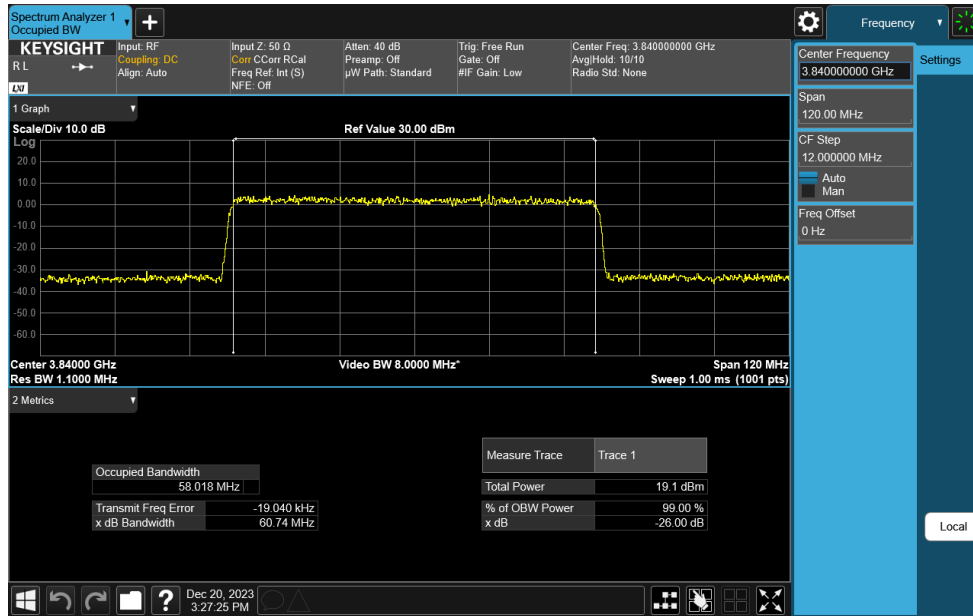


**Plot 7-88. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz CP-OFDM 16-QAM - Full RB)**

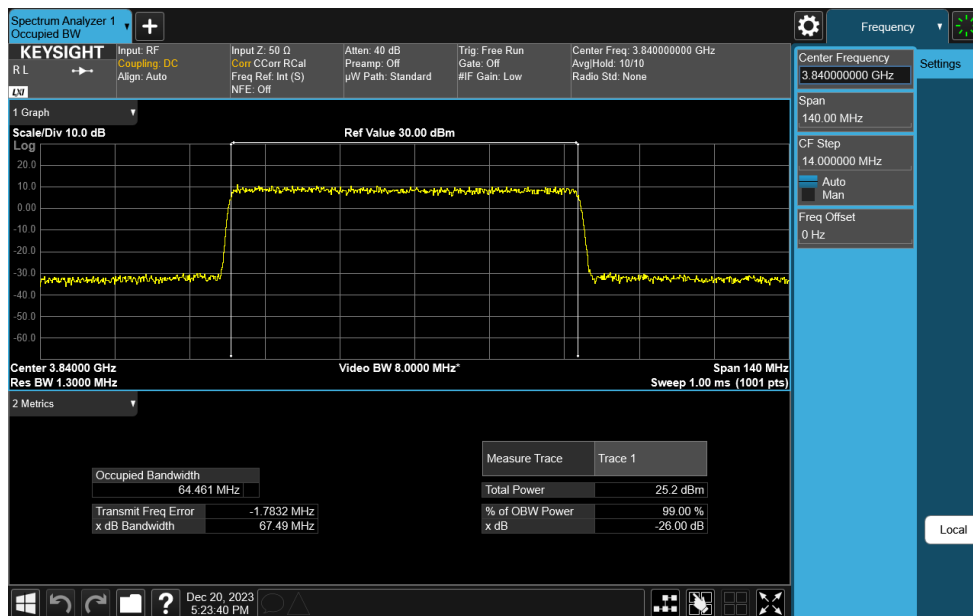


**Plot 7-89. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz CP-OFDM 64-QAM - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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**Plot 7-90. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz CP-OFDM 256-QAM - Full RB)**



**Plot 7-91. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz DFT-s-OFDM π/2 BPSK - Full RB)**

FCC ID: BCGA2926	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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