

**PART 24 MEASUREMENT REPORT****Applicant Name:**

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

Date of Testing:

7/1/2024 - 12/26/2024

Test Report Issue Date:

1/19/2025

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2410210075-08.BCG

FCC ID:

BCGA3269

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A3269, A3271

EUT Type:

Tablet Device

FCC Classification:

PCS Licensed Transmitter (PCB)

FCC Rule Part:

24

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: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 1 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

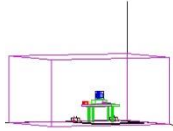
TABLE OF CONTENTS

1.0	INTRODUCTION	5
1.1	Scope	5
1.2	Element Materials Technology Test Location.....	5
1.3	Test Facility / Accreditations.....	5
2.0	PRODUCT INFORMATION.....	6
2.1	Equipment Description	6
2.2	Device Capabilities.....	6
2.3	Antenna Description	7
2.4	Test Support Equipment.....	7
2.5	Test Configuration	7
2.6	Software and Firmware	7
2.7	EMI Suppression Device(s)/Modifications	7
3.0	DESCRIPTION OF TESTS	8
3.1	Evaluation Procedure	8
3.2	Radiated Spurious Emissions	8
4.0	MEASUREMENT UNCERTAINTY	9
5.0	TEST EQUIPMENT CALIBRATION DATA	10
6.0	SAMPLE CALCULATIONS	11
7.0	TEST RESULTS.....	12
7.1	Summary.....	12
7.2	Occupied Bandwidth	13
7.3	Spurious and Harmonic Emissions at Antenna Terminal	48
7.4	Band Edge Emissions at Antenna Terminal	65
7.5	Peak-Average Ratio	117
7.6	Radiated Power (EIRP).....	174
7.7	Radiated Spurious Emissions	196
7.8	Frequency Stability / Temperature Variation	214
8.0	CONCLUSION.....	219

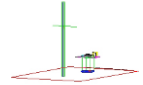
FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 2 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.




PART 24 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]	
WCDMA1900	5 MHz	Spread Spectrum	1852.4 - 1907.6	4.1798	2.91	0.528	27.23	4M18F9W
Band 2	1.4 MHz	QPSK	1850.7 - 1909.3	1.1129	4.96	0.528	27.23	1M11G7W
		16QAM	1850.7 - 1909.3	1.1114	5.77	0.415	26.18	1M11D7W
		64QAM	1850.7 - 1909.3	1.1093	6.45	0.338	25.29	1M11D7W
		256QAM	1850.7 - 1909.3	1.1122	7.14	0.171	22.33	1M11D7W
	3 MHz	QPSK	1851.5 - 1908.5	2.7287	4.65	0.537	27.30	2M73G7W
		16QAM	1851.5 - 1908.5	2.7479	5.68	0.423	26.26	2M75D7W
		64QAM	1851.5 - 1908.5	2.7338	6.43	0.337	25.28	2M73D7W
		256QAM	1851.5 - 1908.5	2.7329	6.65	0.168	22.26	2M73D7W
	5 MHz	QPSK	1852.5 - 1907.5	4.5762	4.86	0.536	27.29	4M58G7W
		16QAM	1852.5 - 1907.5	4.5795	5.82	0.428	26.31	4M58D7W
		64QAM	1852.5 - 1907.5	4.5741	6.43	0.344	25.36	4M57D7W
		256QAM	1852.5 - 1907.5	4.5935	6.65	0.170	22.31	4M59D7W
	10MHz	QPSK	1855 - 1905	9.0999	4.97	0.533	27.27	9M10G7W
		16QAM	1856 - 1905	9.0872	5.87	0.427	26.30	9M09D7W
		64QAM	1857 - 1905	9.0935	6.45	0.338	25.29	9M09D7W
		256QAM	1858 - 1905	9.0958	6.66	0.174	22.41	9M10D7W
	15 MHz	QPSK	1857.5 - 1902.5	13.5760	4.98	0.537	27.30	13M6G7W
		16QAM	1857.5 - 1902.5	13.6229	5.89	0.414	26.17	13M6D7W
		64QAM	1857.5 - 1902.5	13.6066	6.44	0.336	25.26	13M6D7W
		256QAM	1857.5 - 1902.5	13.6044	6.68	0.171	22.34	13M6D7W
	20 MHz	QPSK	1860 - 1900	18.0860	4.88	0.537	27.30	18M1G7W
		16QAM	1860 - 1900	18.0582	5.84	0.427	26.30	18M1D7W
		64QAM	1860 - 1900	18.1127	6.43	0.339	25.30	18M1D7W
		256QAM	1860 - 1900	18.0883	6.63	0.175	22.42	18M1D7W
Band 25	1.4 MHz	QPSK	1850.7 - 1914.3	1.1129	4.98	0.537	27.30	1M11G7W
		16QAM	1850.7 - 1914.3	1.1114	5.78	0.424	26.27	1M11D7W
		64QAM	1850.7 - 1914.3	1.1093	6.46	0.332	25.21	1M11D7W
		256QAM	1850.7 - 1914.3	1.1122	7.16	0.173	22.37	1M11D7W
	3 MHz	QPSK	1851.5 - 1913.5	2.7287	4.66	0.536	27.29	2M73G7W
		16QAM	1851.5 - 1913.5	2.7479	5.71	0.427	26.30	2M75D7W
		64QAM	1851.5 - 1913.5	2.7338	6.46	0.330	25.18	2M73D7W
		256QAM	1851.5 - 1913.5	2.7329	6.71	0.173	22.37	2M73D7W
	5 MHz	QPSK	1852.5 - 1912.5	4.5762	4.87	0.532	27.26	4M58G7W
		16QAM	1852.5 - 1912.5	4.5795	5.87	0.432	26.35	4M58D7W
		64QAM	1852.5 - 1912.5	4.5741	6.46	0.343	25.35	4M57D7W
		256QAM	1852.5 - 1912.5	4.5935	6.71	0.175	22.42	4M59D7W
	10 MHz	QPSK	1855 - 1910	9.0999	4.94	0.535	27.28	9M10G7W
		16QAM	1855 - 1910	9.0872	5.88	0.431	26.34	9M09D7W
		64QAM	1855 - 1910	9.0935	6.47	0.333	25.23	9M09D7W
		256QAM	1855 - 1910	9.0958	6.70	0.174	22.41	9M10D7W
	15 MHz	QPSK	1857.5 - 1907.5	13.5760	4.99	0.524	27.19	13M6G7W
		16QAM	1857.5 - 1907.5	13.6229	5.91	0.412	26.15	13M6D7W
		64QAM	1857.5 - 1907.5	13.6066	6.47	0.339	25.30	13M6D7W
		256QAM	1857.5 - 1907.5	13.6044	6.69	0.171	22.34	13M6D7W
	20 MHz	QPSK	1860 - 1905	18.0860	4.92	0.537	27.30	18M1G7W
		16QAM	1860 - 1905	18.0582	5.85	0.430	26.33	18M1D7W
		64QAM	1860 - 1905	18.1127	6.47	0.340	25.31	18M1D7W
		256QAM	1860 - 1905	18.0883	6.66	0.173	22.37	18M1D7W

EUT Overview


FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 3 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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 n2	5 MHz	$\pi/2$ BPSK	1852.5 - 1907.5	4.4560	3.99	0.528	27.23	4M46G7W
		QPSK	1852.5 - 1907.5	4.4783	5.38	0.537	27.30	4M48G7W
		16QAM	1852.5 - 1907.5	4.4863	6.29	0.410	26.13	4M49D7W
		64QAM	1852.5 - 1907.5	4.4841	6.78	0.337	25.28	4M48D7W
		256QAM	1852.5 - 1907.5	4.4641	6.79	0.172	22.35	4M46D7W
	10 MHz	$\pi/2$ BPSK	1855 - 1905	8.9712	4.25	0.537	27.30	8M97G7W
		QPSK	1855 - 1905	9.3190	5.67	0.530	27.24	9M32G7W
		16QAM	1855 - 1905	9.2851	6.30	0.432	26.35	9M29D7W
		64QAM	1855 - 1905	9.3257	6.63	0.344	25.37	9M33D7W
		256QAM	1855 - 1905	9.3153	6.61	0.171	22.33	9M32D7W
	15 MHz	$\pi/2$ BPSK	1857.5 - 1902.5	13.4609	4.12	0.537	27.30	13M5G7W
		QPSK	1857.5 - 1902.5	14.1980	5.41	0.524	27.19	14M2G7W
		16QAM	1857.5 - 1902.5	14.1391	6.25	0.424	26.27	14M1D7W
		64QAM	1857.5 - 1902.5	14.1491	6.63	0.335	25.25	14M1D7W
		256QAM	1857.5 - 1902.5	14.1451	6.60	0.172	22.35	14M1D7W
	20 MHz	$\pi/2$ BPSK	1860 - 1900	17.9205	4.28	0.535	27.28	17M9G7W
		QPSK	1860 - 1900	18.9311	5.55	0.537	27.30	18M9G7W
		16QAM	1860 - 1900	18.9708	6.34	0.424	26.27	19M0D7W
		64QAM	1860 - 1900	18.9562	6.59	0.339	25.30	19M0D7W
		256QAM	1860 - 1900	18.9916	6.67	0.174	22.41	19M0D7W
NR Band n25	5 MHz	$\pi/2$ BPSK	1852.5 - 1912.5	4.4560	4.01	0.407	26.10	4M46G7W
		QPSK	1852.5 - 1912.5	4.4783	5.36	0.400	26.02	4M48G7W
		16QAM	1852.5 - 1912.5	4.4863	6.44	0.326	25.13	4M49D7W
		64QAM	1852.5 - 1912.5	4.4841	6.80	0.248	23.94	4M48D7W
		256QAM	1852.5 - 1912.5	4.4641	6.57	0.132	21.21	4M46D7W
	10 MHz	$\pi/2$ BPSK	1855 - 1910	8.9712	4.29	0.403	26.05	8M97G7W
		QPSK	1855 - 1910	9.3190	5.60	0.407	26.10	9M32G7W
		16QAM	1855 - 1910	9.2851	6.33	0.312	24.94	9M29D7W
		64QAM	1855 - 1910	9.3257	6.50	0.249	23.97	9M33D7W
		256QAM	1855 - 1910	9.3153	6.71	0.131	21.17	9M32D7W
	15 MHz	$\pi/2$ BPSK	1857.5 - 1907.5	13.4609	4.11	0.402	26.04	13M5G7W
		QPSK	1857.5 - 1907.5	14.1980	5.46	0.407	26.10	14M2G7W
		16QAM	1857.5 - 1907.5	14.1391	6.22	0.324	25.11	14M1D7W
		64QAM	1857.5 - 1907.5	14.1491	6.60	0.253	24.03	14M1D7W
		256QAM	1857.5 - 1907.5	14.1451	6.54	0.130	21.15	14M1D7W
	20 MHz	$\pi/2$ BPSK	1860 - 1905	17.9205	4.26	0.405	26.07	17M9G7W
		QPSK	1860 - 1905	18.9311	5.53	0.407	26.10	18M9G7W
		16QAM	1860 - 1905	18.9708	6.32	0.321	25.06	19M0D7W
		64QAM	1860 - 1905	18.9562	6.64	0.246	23.91	19M0D7W
		256QAM	1860 - 1905	18.9916	6.59	0.132	21.20	19M0D7W
	25 MHz	$\pi/2$ BPSK	1862.5 - 1902.5	22.8960	4.10	0.407	26.10	22M9G7W
		QPSK	1862.5 - 1902.5	23.8607	5.39	0.403	26.05	23M9G7W
		16QAM	1862.5 - 1902.5	23.8336	6.27	0.321	25.07	23M8D7W
		64QAM	1862.5 - 1902.5	23.8536	6.53	0.256	24.09	23M9D7W
		256QAM	1862.5 - 1902.5	23.9033	6.74	0.130	21.15	23M9D7W
	30 MHz	$\pi/2$ BPSK	1865 - 1900	28.6521	4.31	0.404	26.06	28M7G7W
		QPSK	1865 - 1900	28.5438	5.62	0.407	26.10	28M5G7W
		16QAM	1865 - 1900	28.6360	6.43	0.321	25.06	28M6D7W
		64QAM	1865 - 1900	28.6235	6.58	0.256	24.08	28M6D7W
		256QAM	1865 - 1900	28.5636	6.66	0.132	21.19	28M6D7W
	35 MHz	$\pi/2$ BPSK	1867.5 - 1897.5	32.2177	4.41	0.407	26.10	32M2G7W
		QPSK	1867.5 - 1897.5	33.6578	5.66	0.400	26.02	33M7G7W
		16QAM	1867.5 - 1897.5	33.5900	6.42	0.324	25.10	33M6D7W
		64QAM	1867.5 - 1897.5	33.6978	6.64	0.256	24.09	33M7D7W
		256QAM	1867.5 - 1897.5	33.7157	6.57	0.131	21.18	33M7D7W
	40 MHz	$\pi/2$ BPSK	1870 - 1895	38.5537	4.47	0.407	26.10	38M6G7W
		QPSK	1870 - 1895	38.7743	5.62	0.401	26.03	38M8G7W
		16QAM	1870 - 1895	38.6863	6.38	0.322	25.08	38M7D7W
		64QAM	1870 - 1895	38.7048	6.65	0.252	24.01	38M7D7W
		256QAM	1870 - 1895	38.6123	6.60	0.130	21.15	38M6D7W

EUT Overview

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 4 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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).

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 5 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID:BCGA3269**. 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 24.

Test Device Serial No.: RTF5C4W1KX, XD4R967RNY, TJ4463YD19, DLXH57000060000RJY, DLXH570002H0000RJY

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	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, HDR4/8, LE1/2M	802.15.4	802.11 b/g/n/ax	BDR, HDR4/8	802.11 a/n/ac/ax	802.11 a/ax	LB	MB/HB	Ultra High Band
Ant 3b	Config 1	✗	✗	✗	✓	✗	✗	✗	✓	✗
Ant 3b	Config 2	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3b	Config 3	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3a	Config 4	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 3a	Config 5	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 3a	Config 6	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1a	Config 7	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 8	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 9	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1b	Config 10	✗	✗	✗	✓	✗	✗	✗	✓	✗
Ant 1b	Config 11	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 1b	Config 12	✗	✗	✗	✗	✗	✓	✗	✓	✗


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 2 and reported in RF UNII OFDM, and RF FCC Part 27b 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 both connected and disconnected modes, and Wi-Fi (2.4GHz) - Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Bluetooth can simultaneously transmit with IEEE 802.11a/n/ac/ax 5/6 GHz on separate antenna.

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 6 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

2.3 Antenna Description

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

Band	Antenna Gain [dBi]			
	Antenna 4	Antenna 1b	Antenna 3b	Antenna 2
WCDMA 1900	1.6	0.7	0.1	2.4
LTE Band 2/25				
NR Band n2/n25				

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141 Model: A2166	S/N: C02H604EQ05D S/N: C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model: Spartan	S/N: GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: A246C Model: A2305	S/N: DWH80115BK826GV19 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.


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 22D20 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.

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 7 of 219

V2.2 09/07/2023

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.

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 8 of 219


V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 9 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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	180-442A-KF	20dB Nominal Gain Horn Antenna	3/14/2024	Annual	3/14/2025	T058701-01
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/9/2024	Annual	4/9/2025	00218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Fairview Microwave	M2CP1122-10	RF Directional Coupler *	6/10/2024	Annual	6/10/2025	1946
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Rohde & Schwarz	FSW67	Signal and Spectrum Analyzer (2Hz-67GHz)	7/5/2024	Annual	7/5/2025	101366
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	3/1/2024	Annual	3/1/2025	102143
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/1/2024	Annual	5/1/2025	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/27/2023	Annual	12/27/2024	164715
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Annual	4/24/2025	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/29/2024	Annual	4/29/2025	00304

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 has been internally verified/calibrated.

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 10 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

6.0 SAMPLE CALCULATIONS

Emission Designator

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

$\pi/2$ 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.

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 11 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

7.0 TEST RESULTS

7.1 Summary


Company Name: Apple Inc.
 FCC ID: BCGA3269
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): WCDMA/LTE/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	2.1051, 24.238(a)	-13 dBm at Band Edge and for all out-of-band emissions	PASS	Sections 7.3, 7.4
	Peak-Average Ratio	24.232(d)	< 13 dB	PASS	Section 7.5
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Frequency Stability	2.1055, 24.235	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested	PASS	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power	24.232(c)	< 2 Watts max. EIRP	PASS	Section 7.6
RADIATED	Radiated Spurious Emissions	2.1053, 24.238(a)	-13 dBm for all out-of-band emissions	PASS	Section 7.7

Table 7-1. Summary of Test Results

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 ports 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 is 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 3.1.0.

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 12 of 219

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 $\geq 3 \times$ 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

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 13 of 219

V2.2 09/07/2023

Test Setup

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

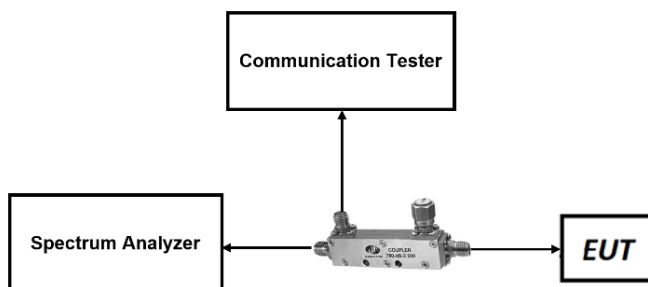


Figure 7-1. LTE Test Instrument & Measurement Setup

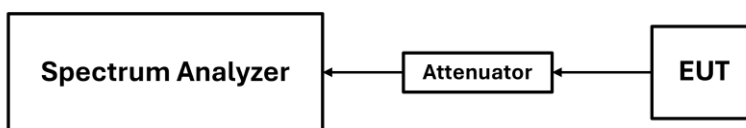



Figure 7-2. FR1 Test Instrument & Measurement Setup

Test Notes

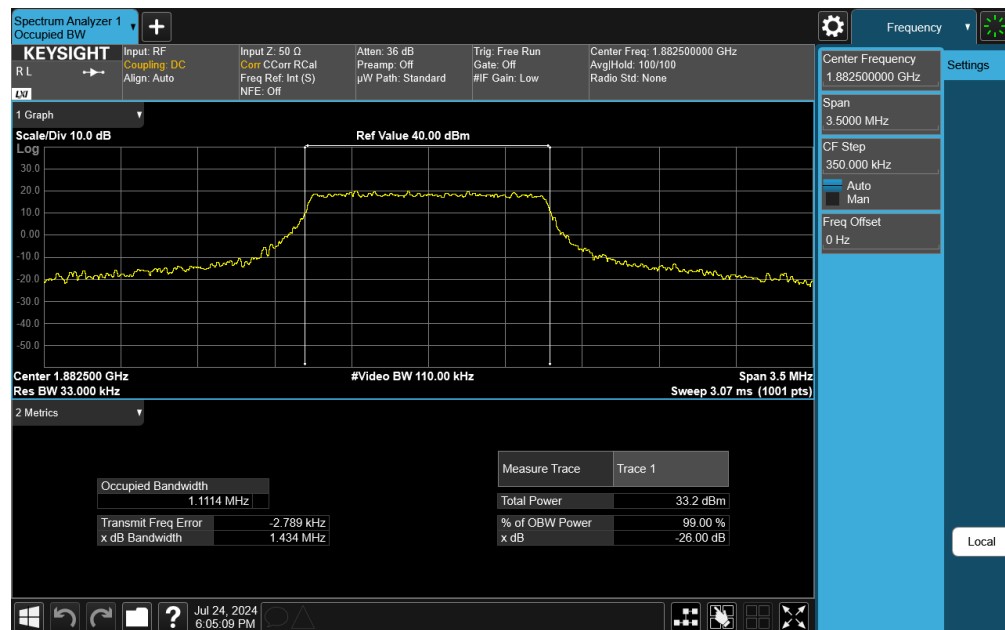
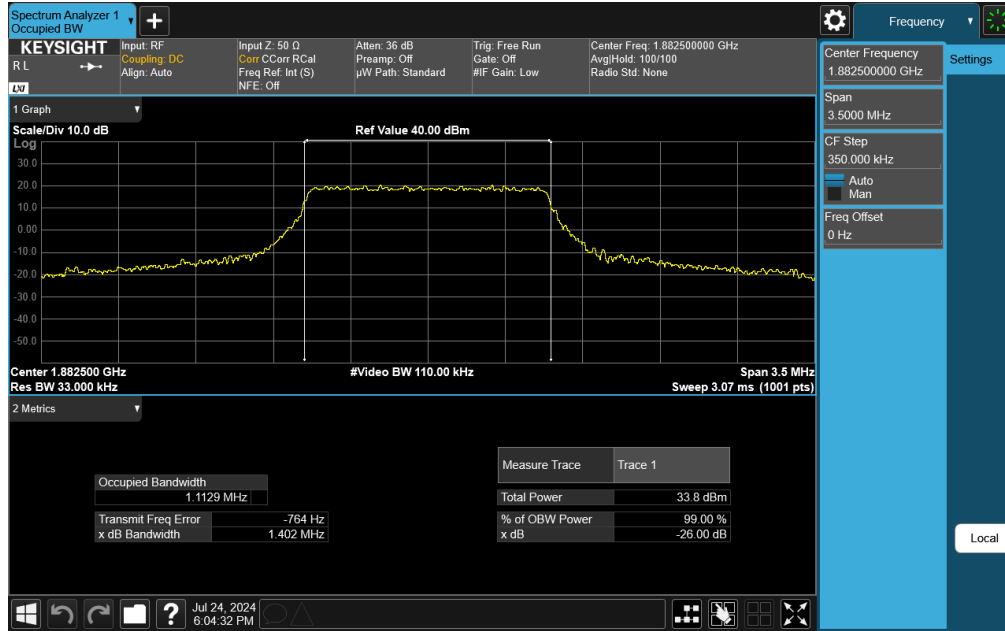
None.


FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 14 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

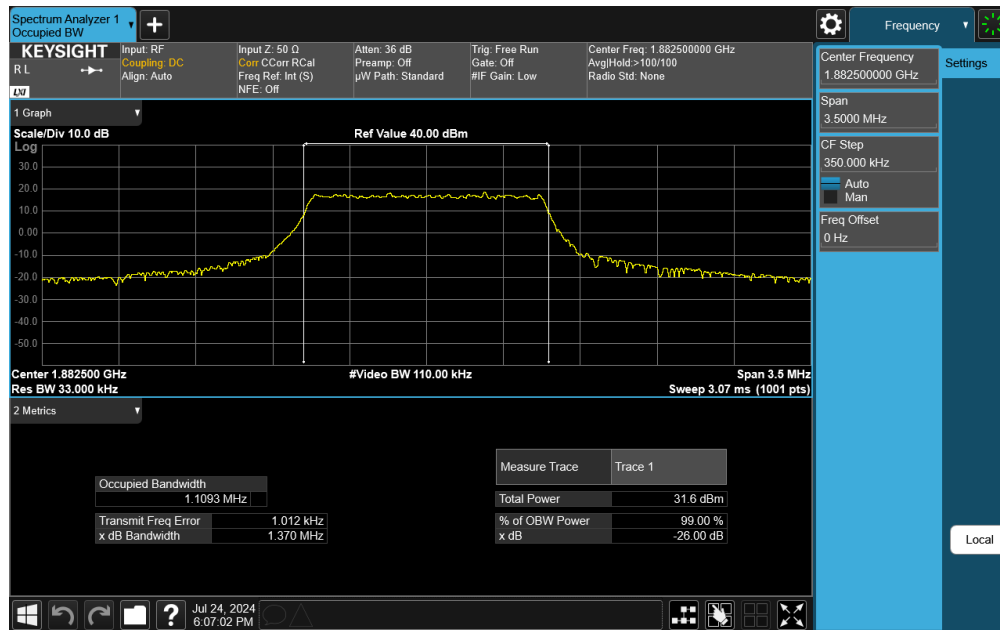
LTE Band 25/2



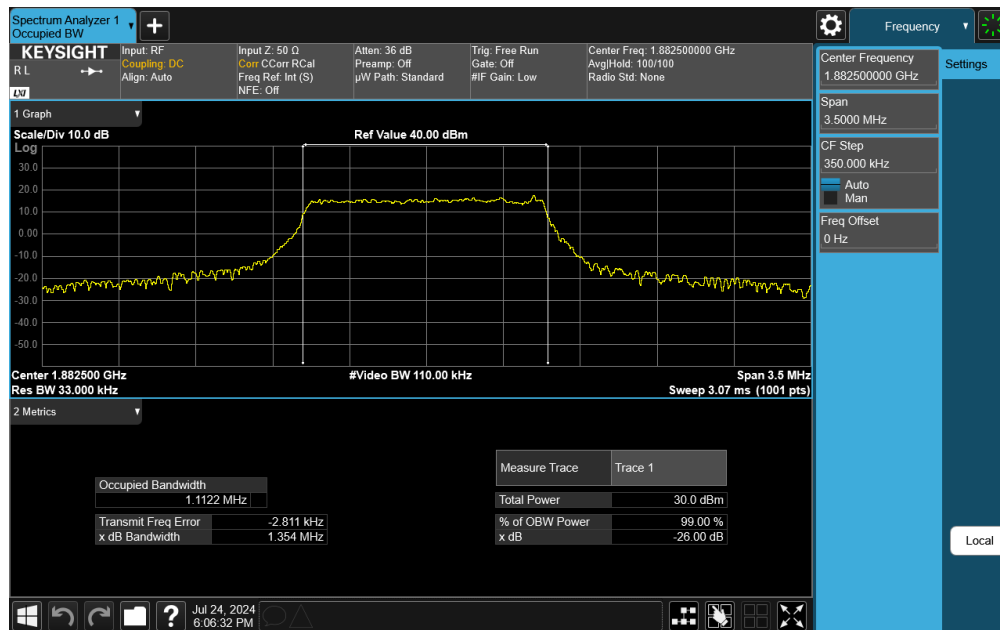
FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 15 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-3. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)

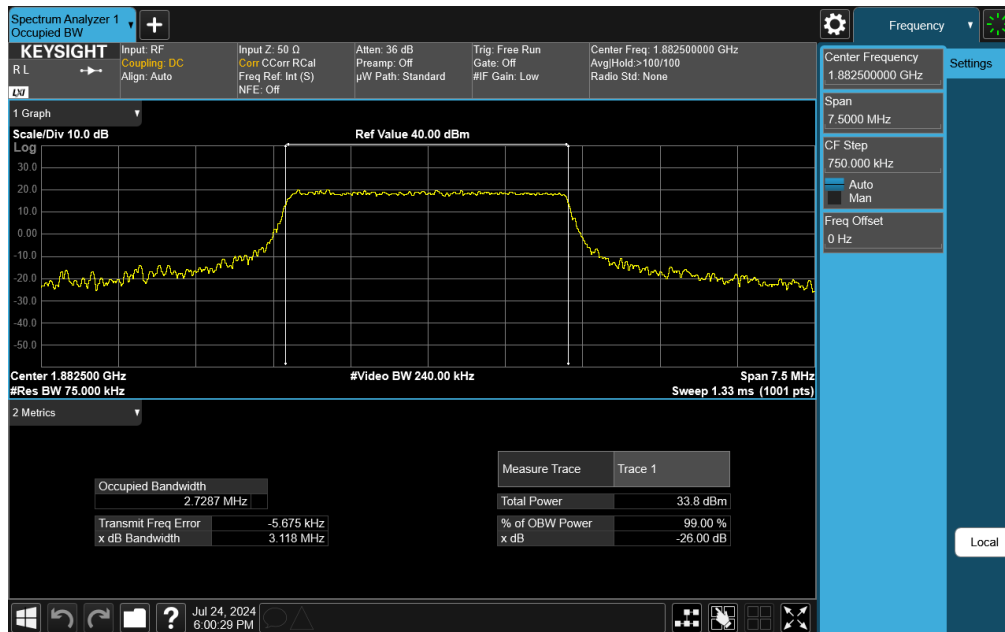


P6.lot 7-4. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB Configuration)

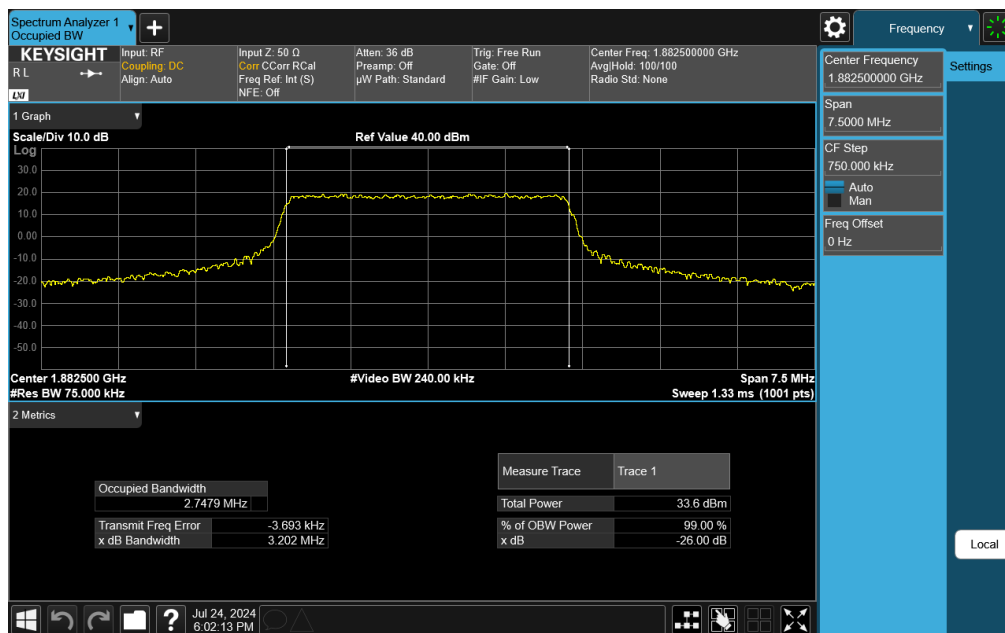
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 16 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-5. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)

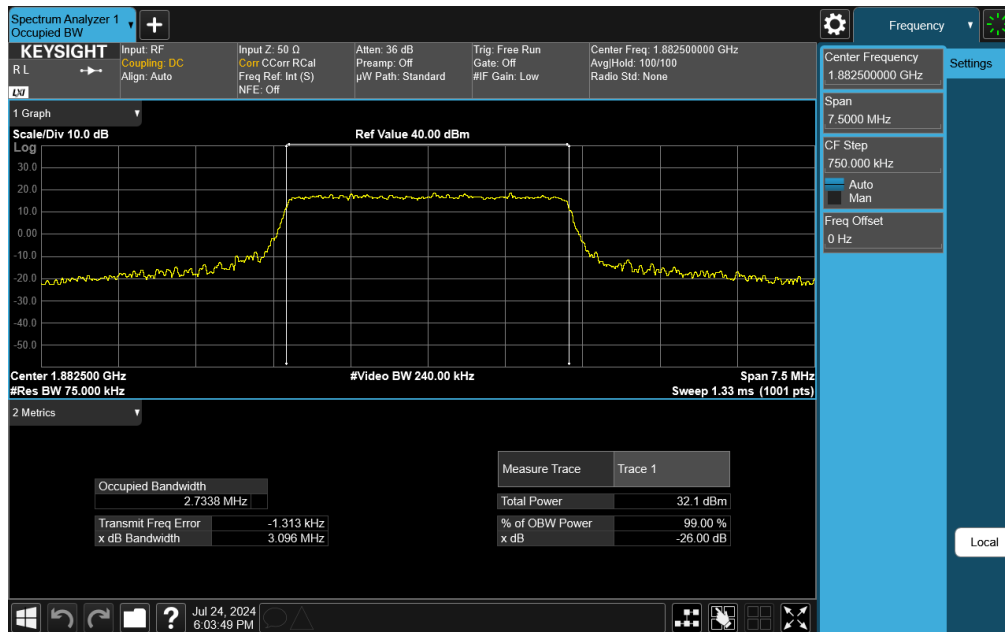


Plot 7-6. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 17 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-7. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 64-QAM - Full RB Configuration)

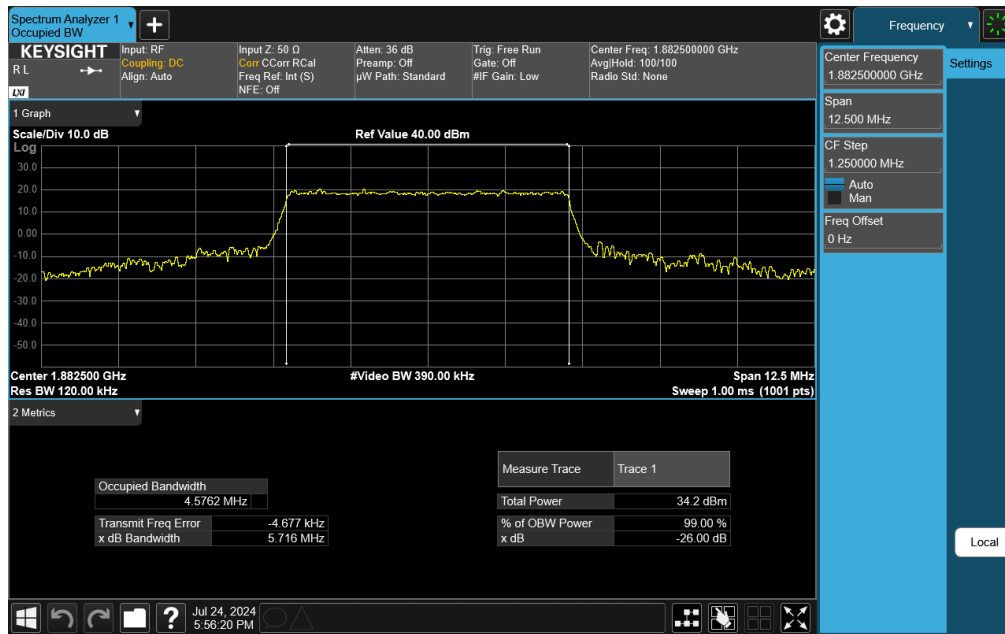


Plot 7-8. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB Configuration)

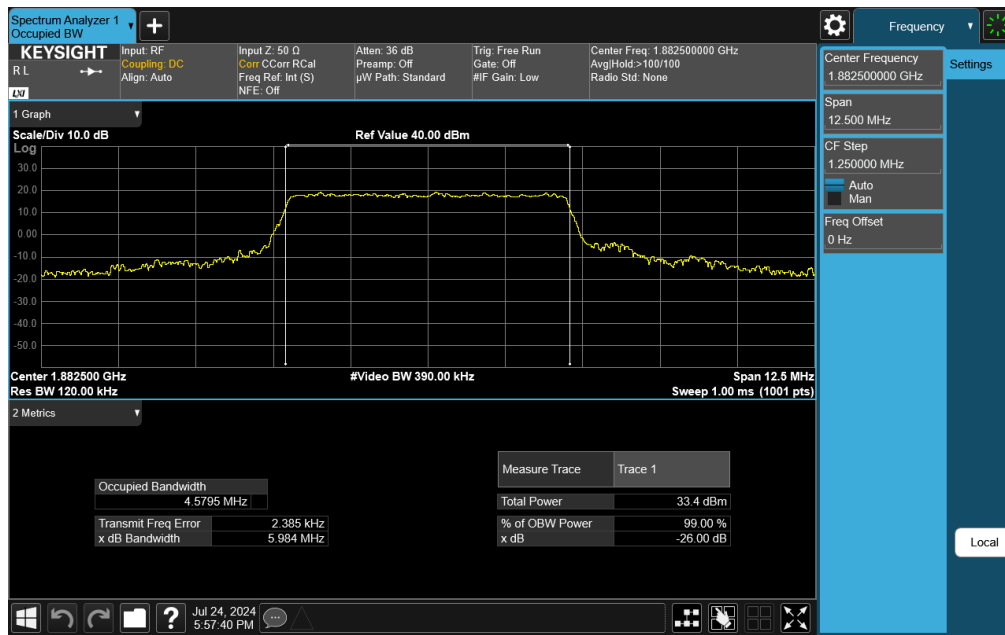
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 18 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-9. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

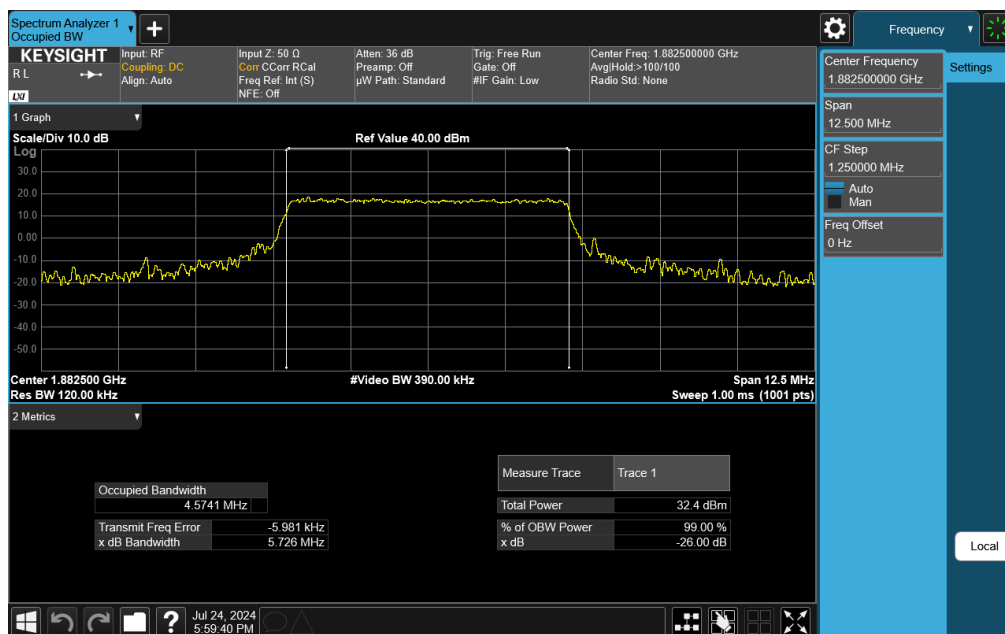


Plot 7-10. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB Configuration)

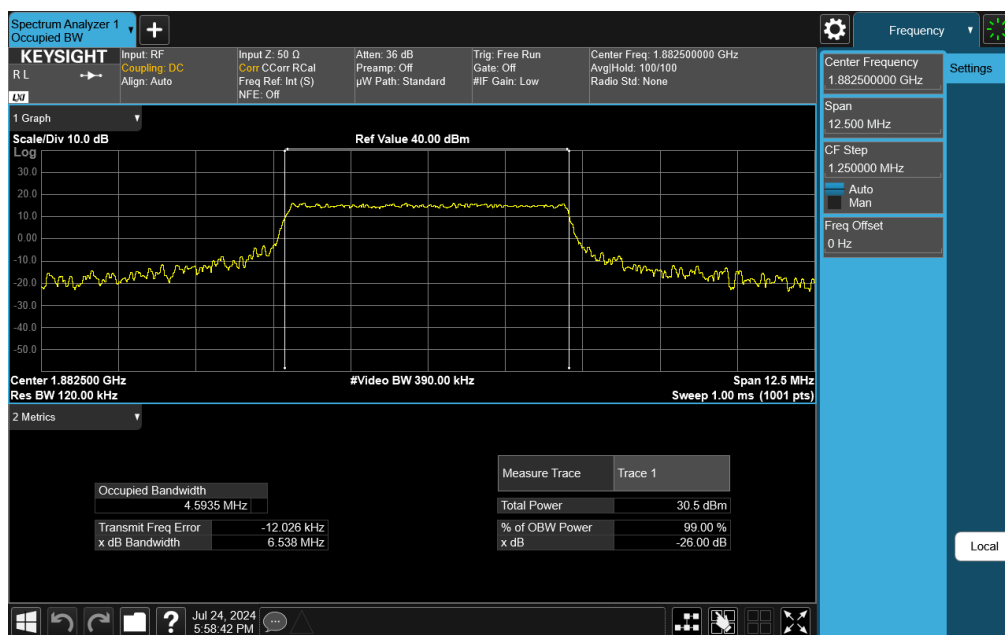
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 19 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-11. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 64-QAM - Full RB Configuration)

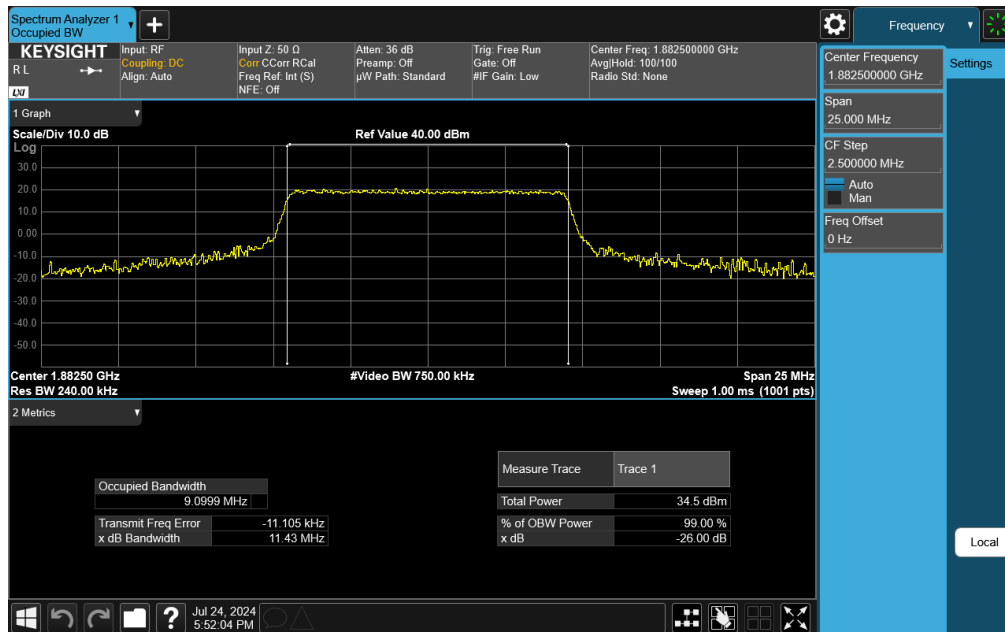


Plot 7-12. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB Configuration)

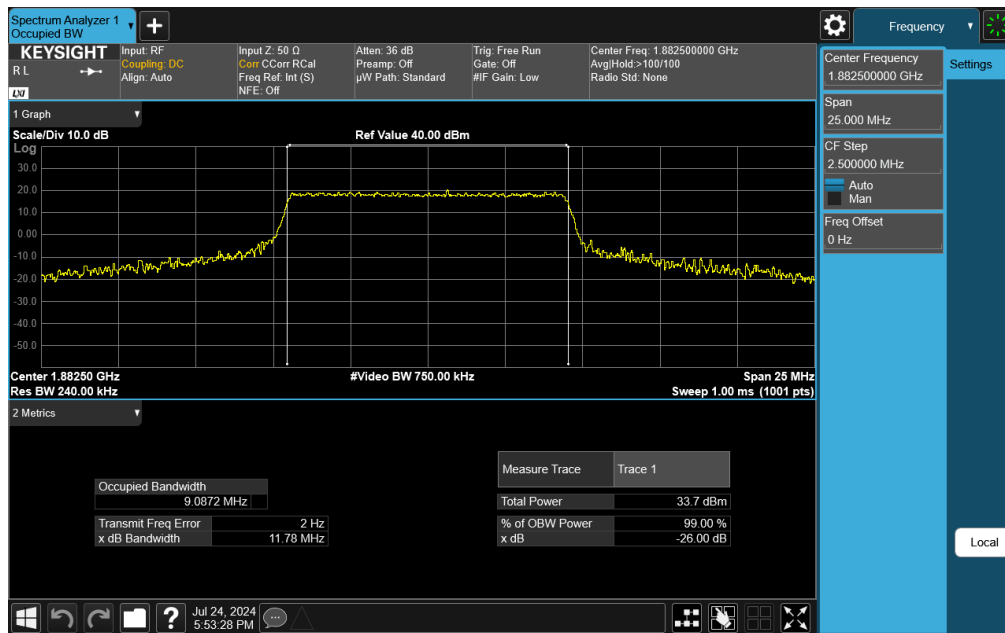
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 20 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-13. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)

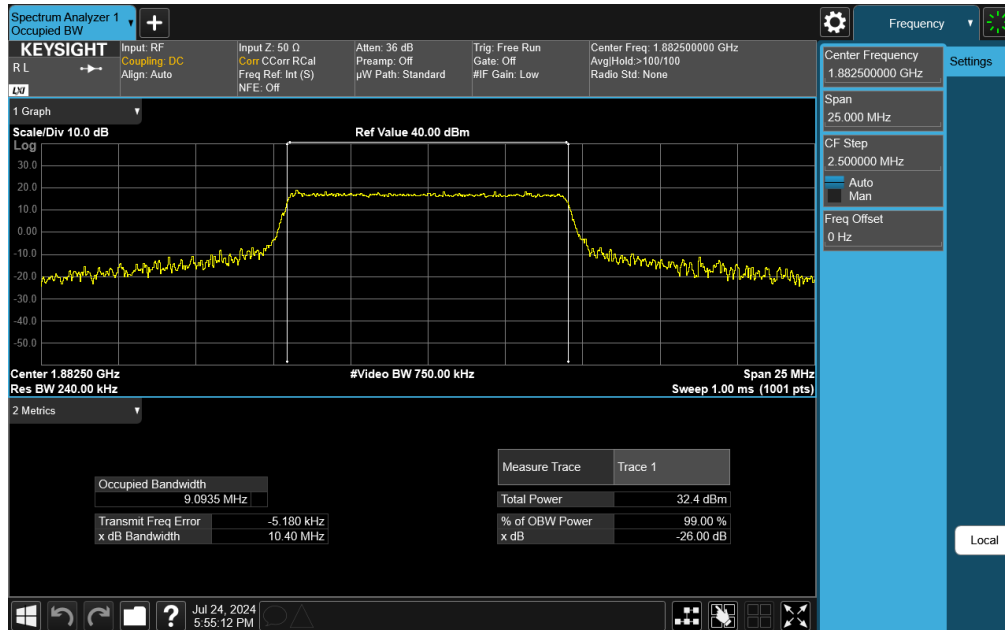


Plot 7-14. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB Configuration)

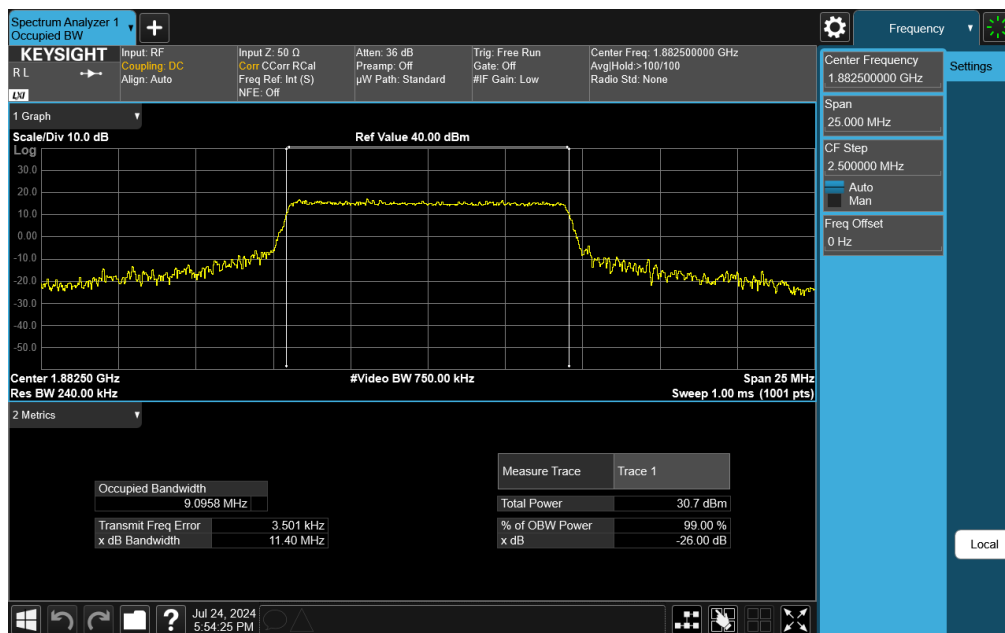
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 21 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

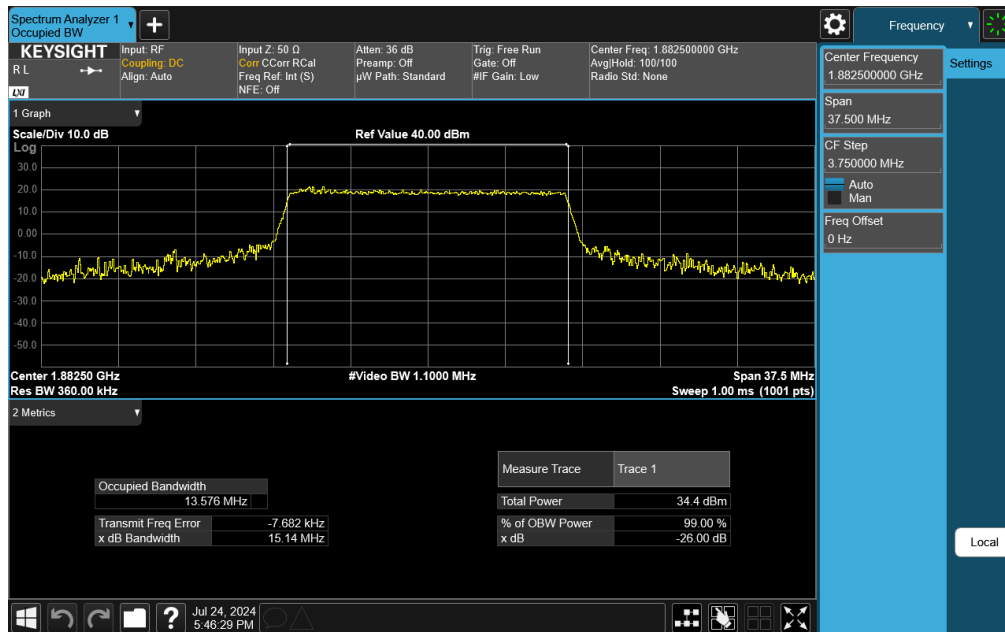


Plot 7-15. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 64-QAM - Full RB Configuration)

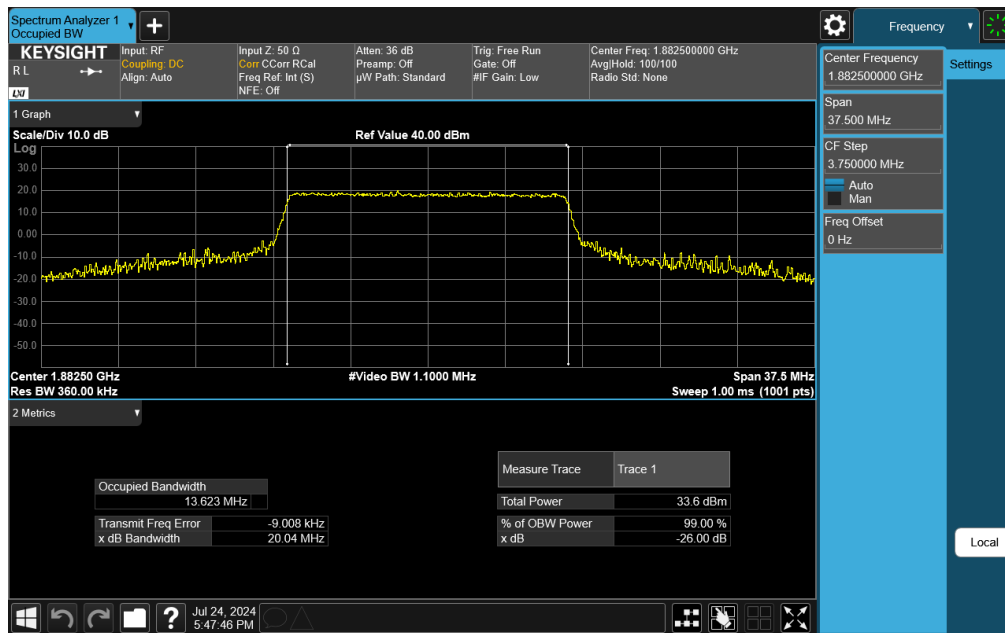


Plot 7-16. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB Configuration)


FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 22 of 219



Plot 7-17. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

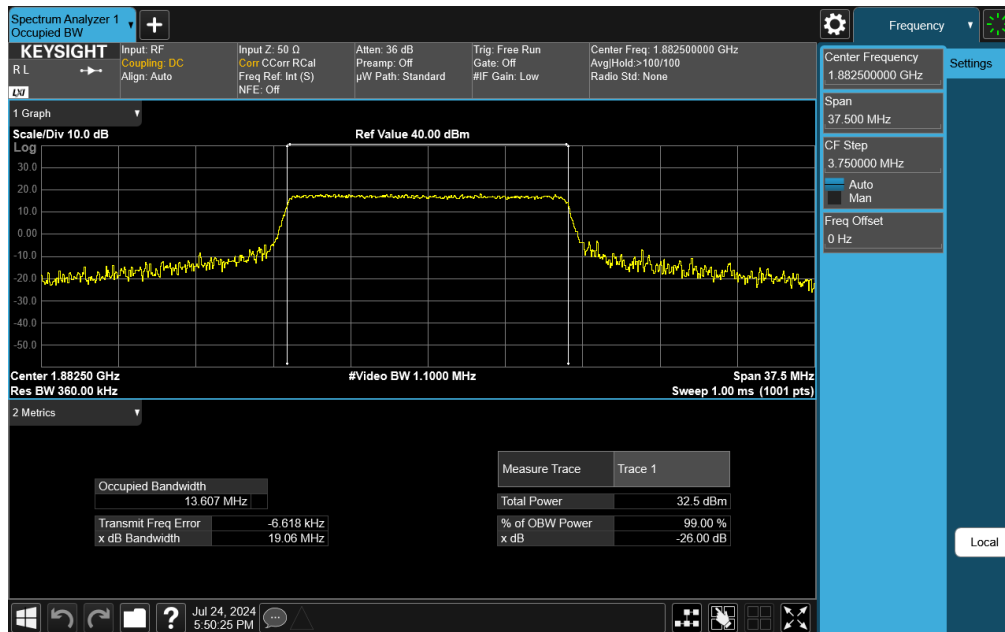


Plot 7-18. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB Configuration)

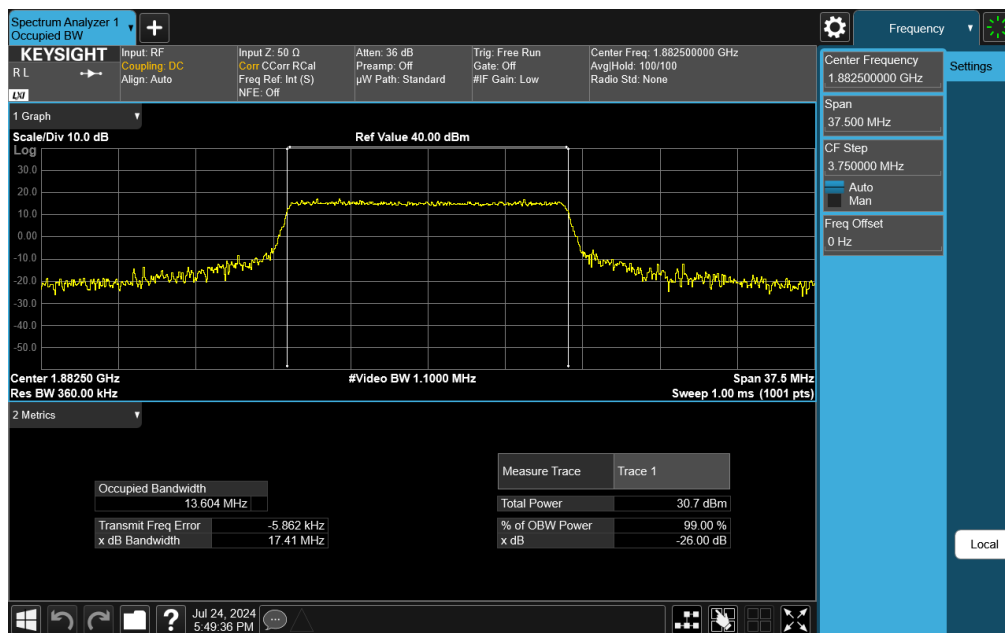
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 23 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-19. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 64-QAM - Full RB Configuration)

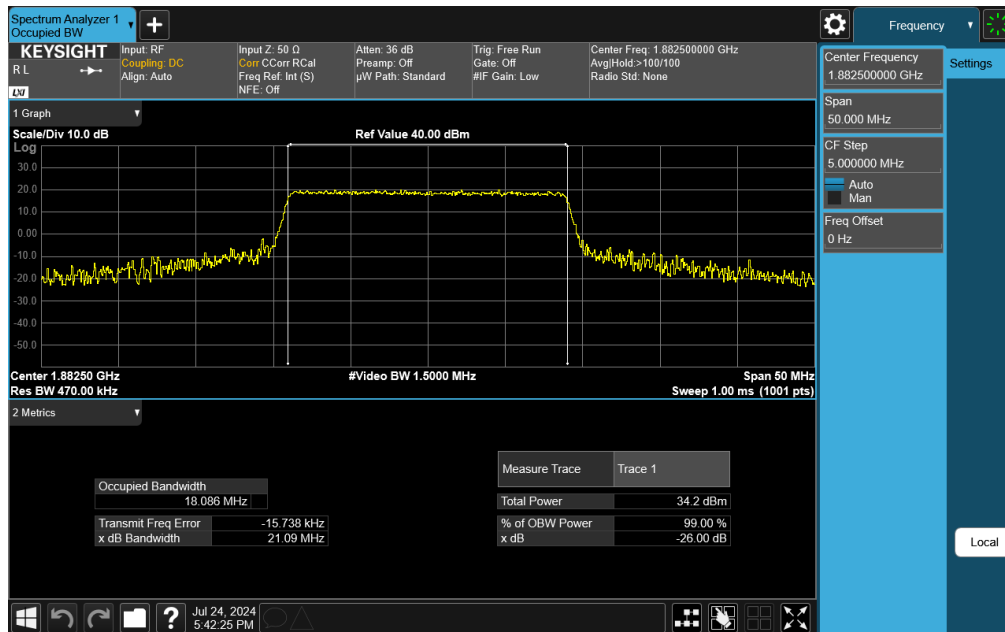


Plot 7-20. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB Configuration)

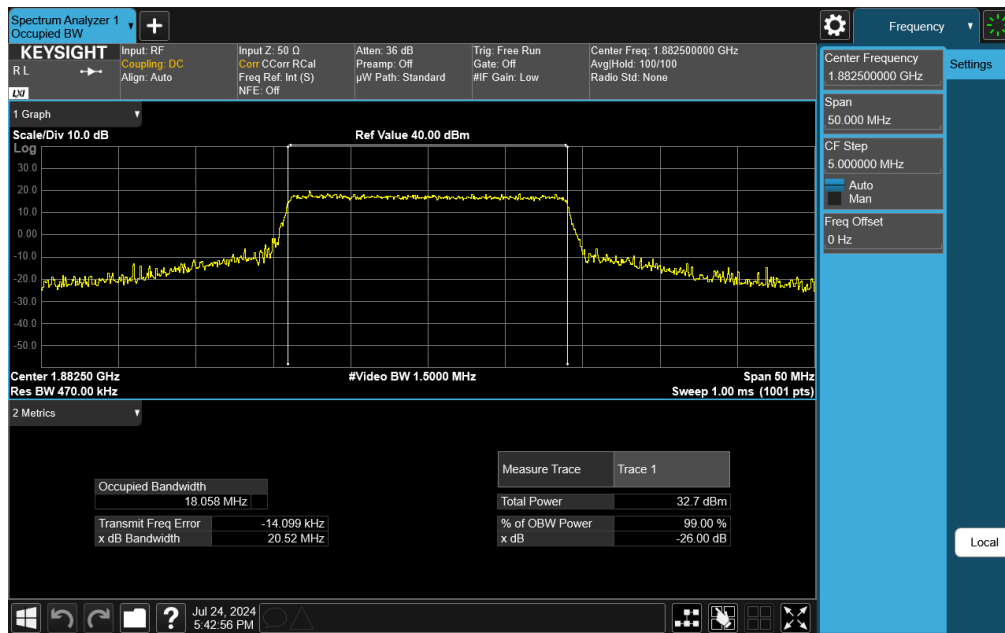
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 24 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-21. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)

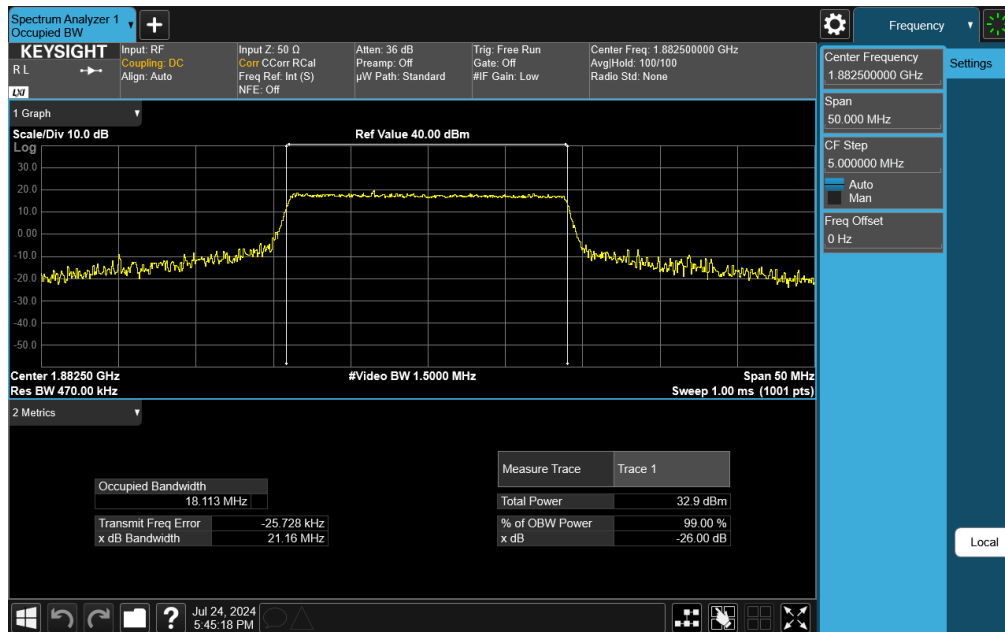


Plot 7-22. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB Configuration)

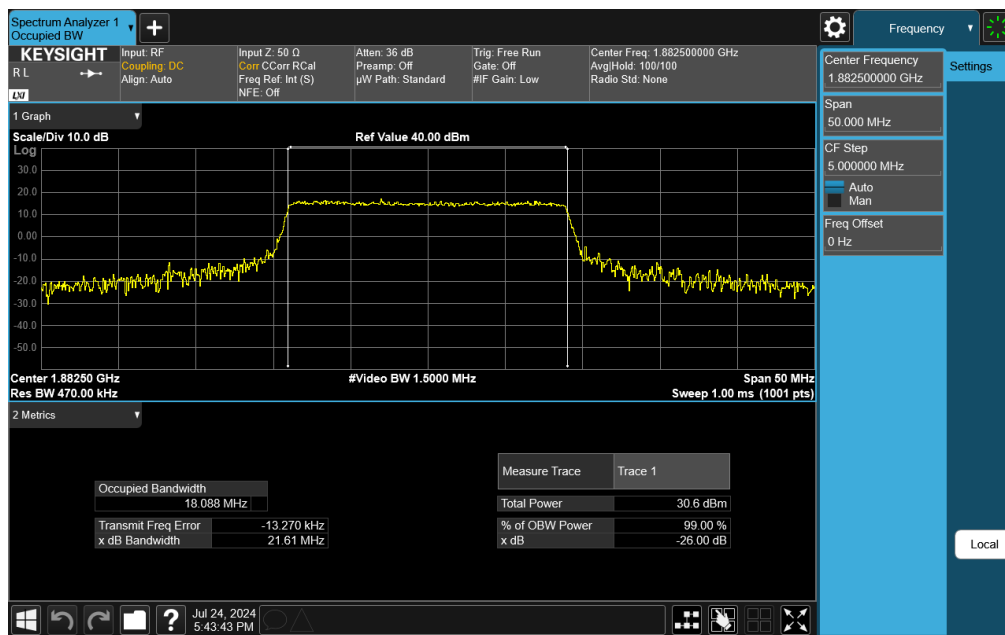
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	Page 25 of 219
	EUT Type: Tablet Device	

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-23. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 64-QAM - Full RB Configuration)



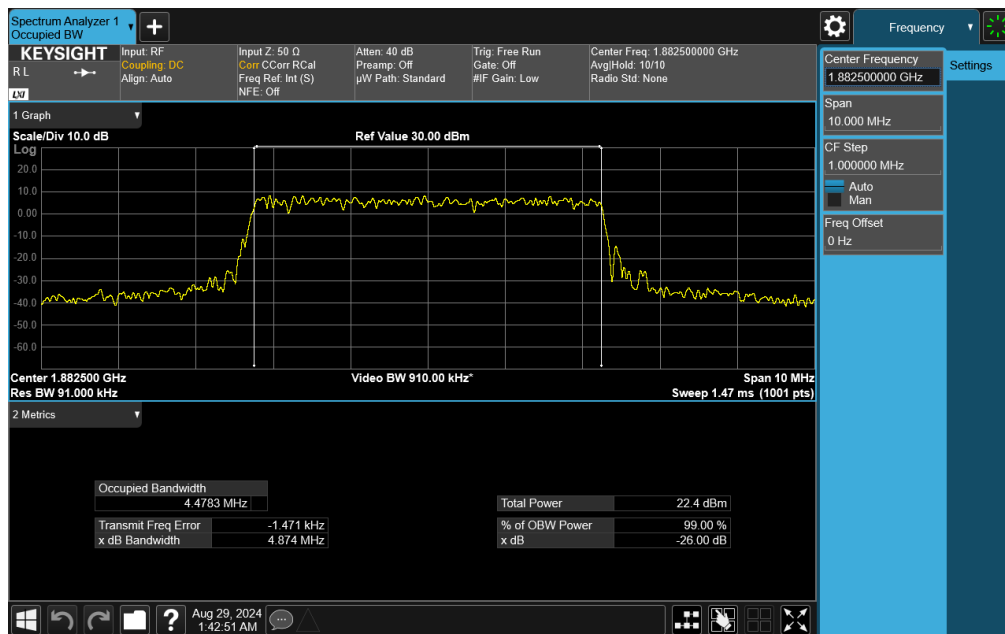
Plot 7-24. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 26 of 219


NR Band n25/n2



Plot 7-25. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

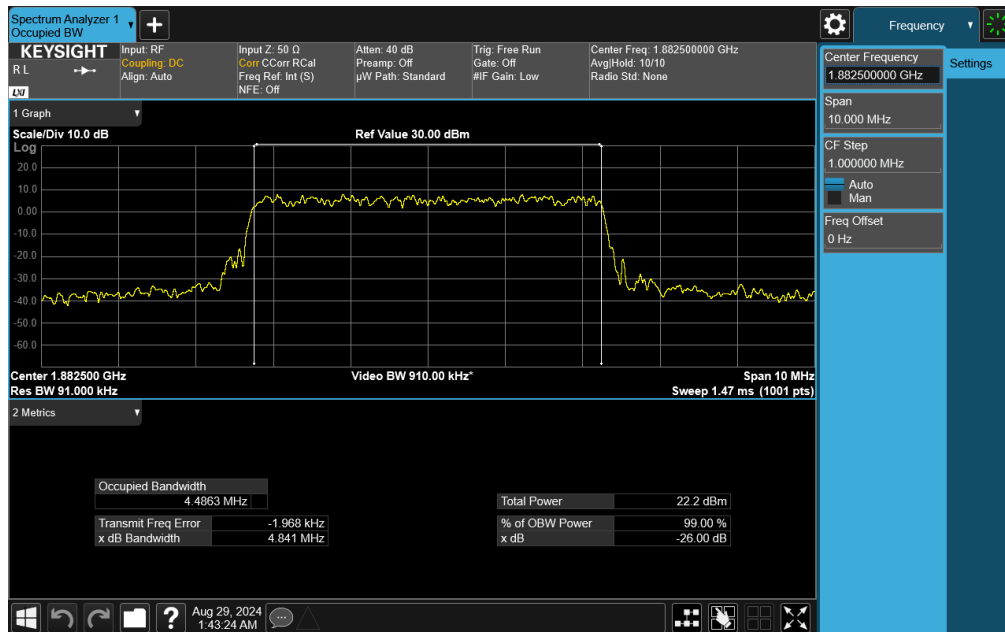


Plot 7-26. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz CP-OFDM QPSK - Full RB)

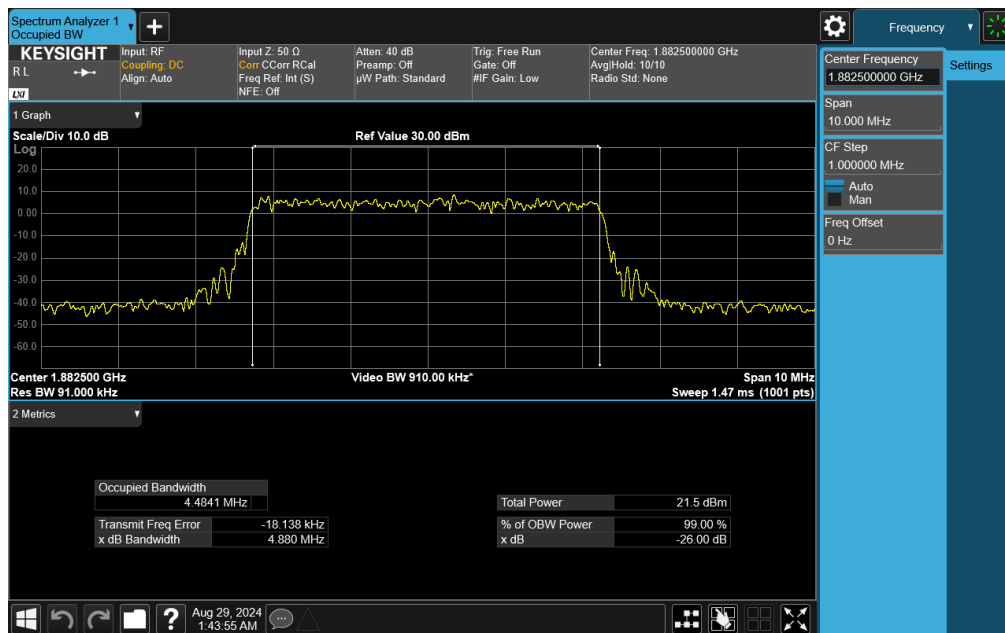
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 27 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-27. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz CP-OFDM 16QAM - Full RB)

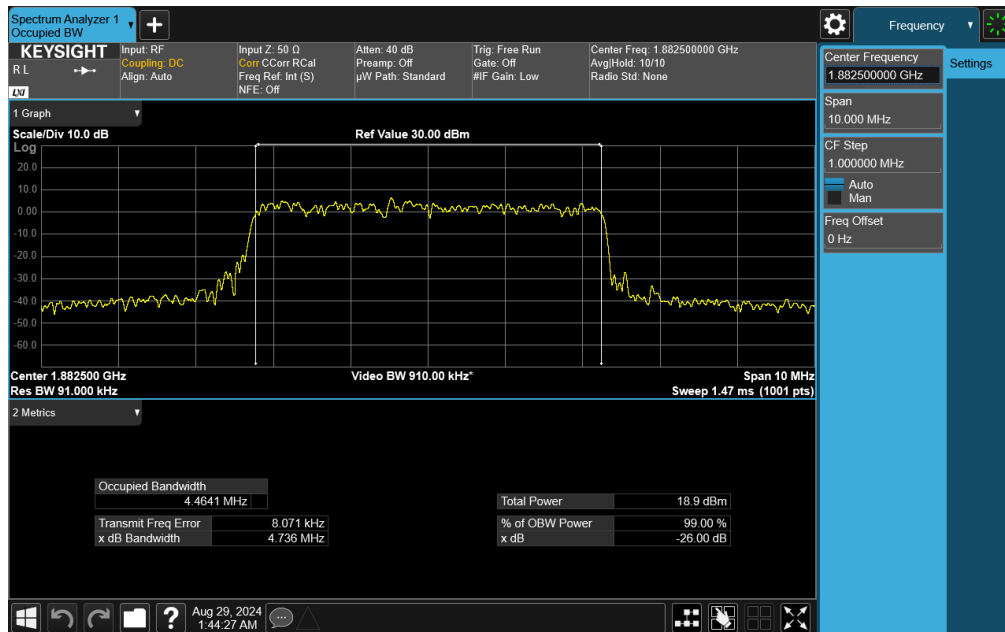


Plot 7-28. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz CP-OFDM 64QAM - Full RB)

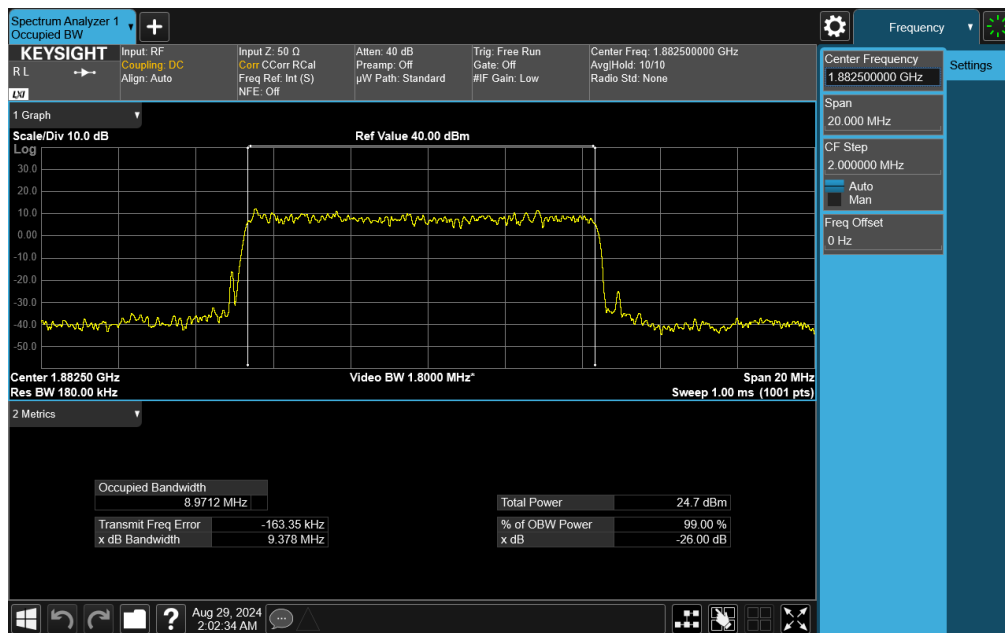
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 28 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-29. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz CP-OFDM 256QAM - Full RB)

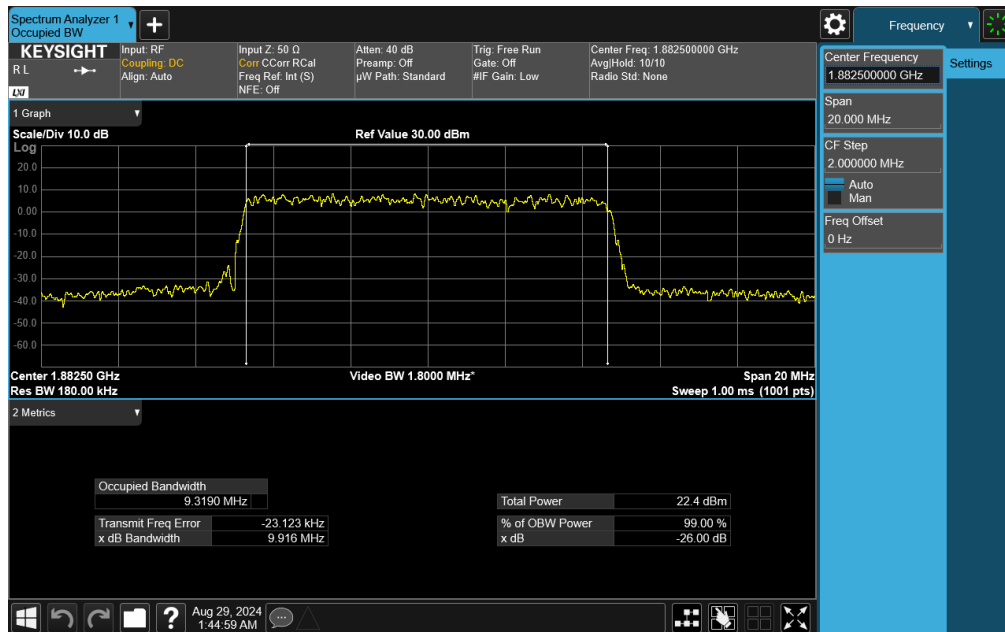


Plot 7-30. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

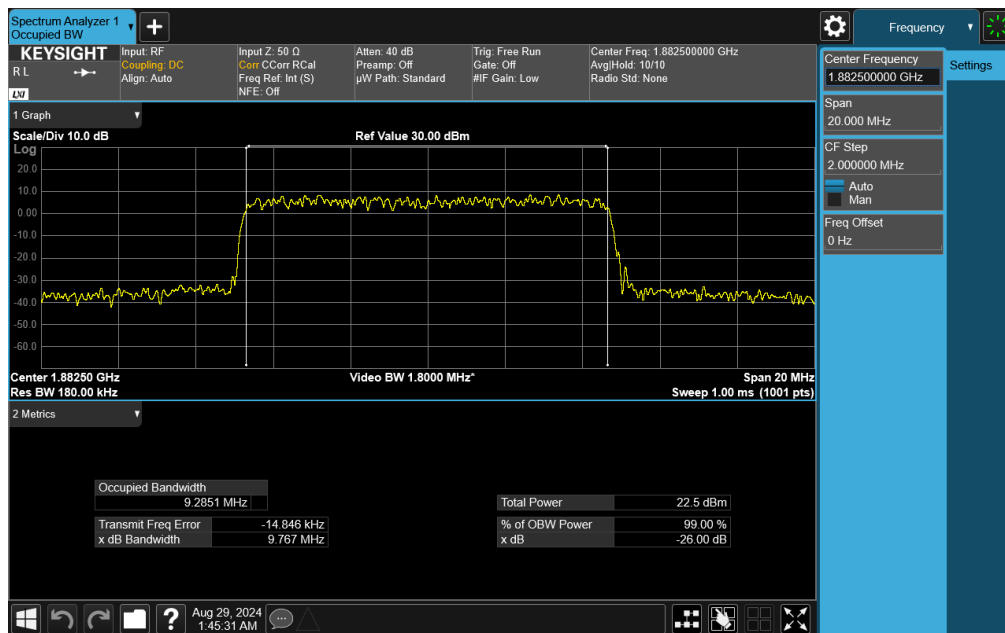
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 29 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-31. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM QPSK - Full RB)



Plot 7-32. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM 16QAM - Full RB)

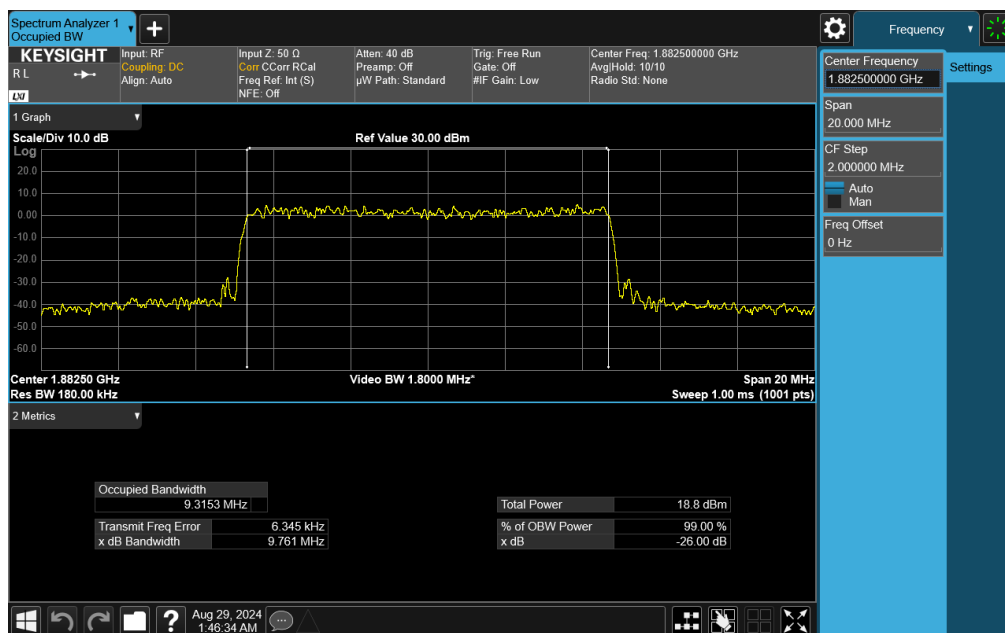
FCC ID: BCGA3269	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 30 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-33. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM 64QAM - Full RB)

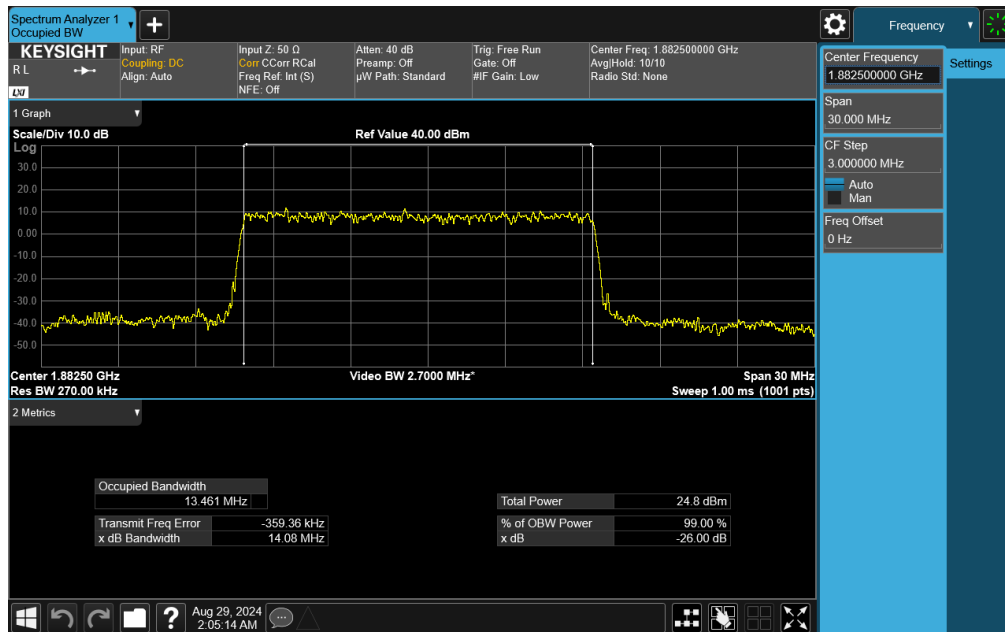


Plot 7-34. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM 256QAM - Full RB)

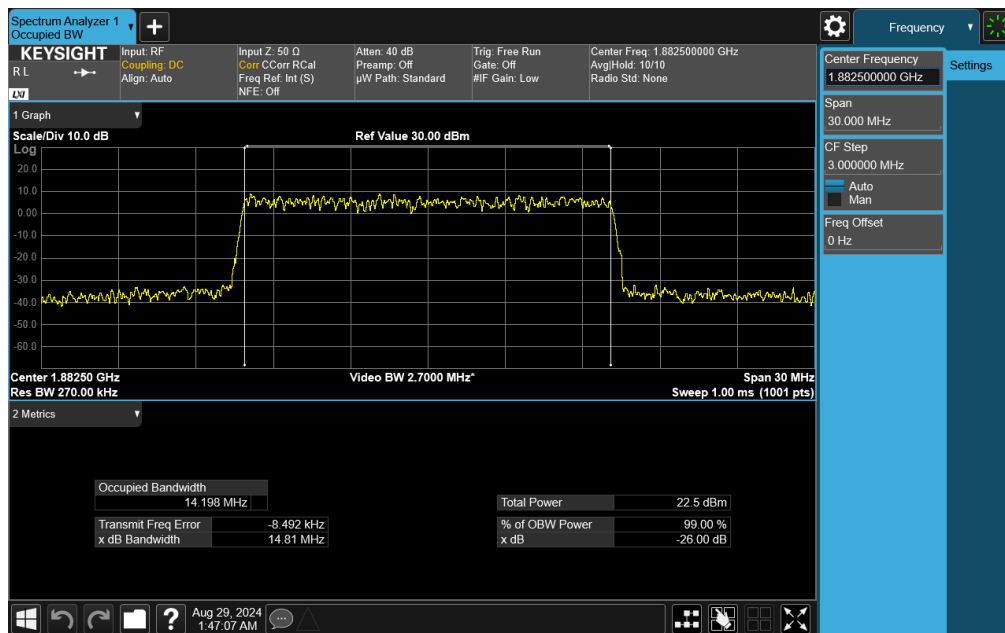
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 31 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-35. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

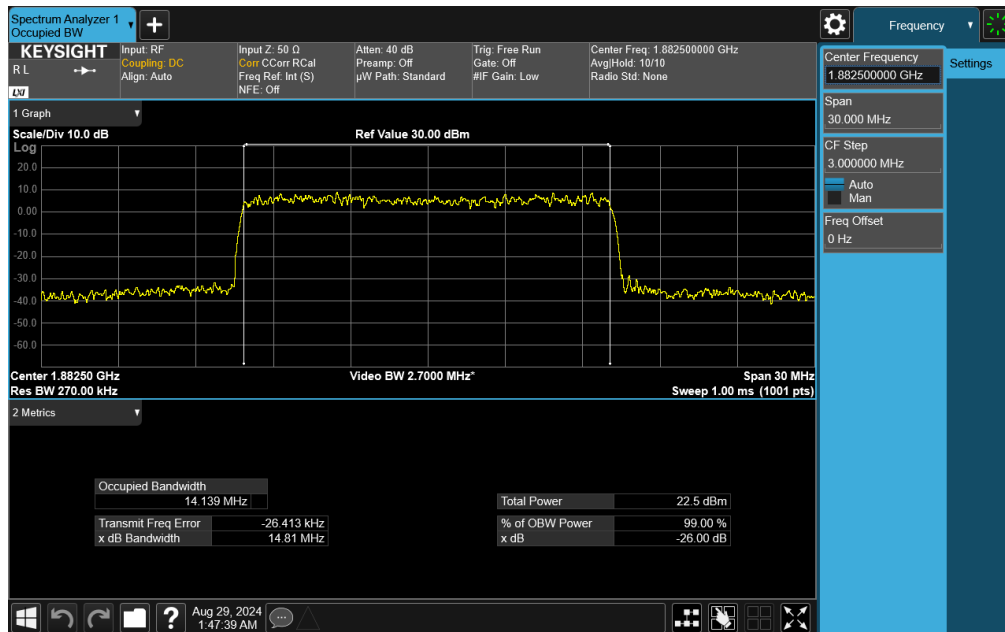


Plot 7-36. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM QPSK - Full RB)

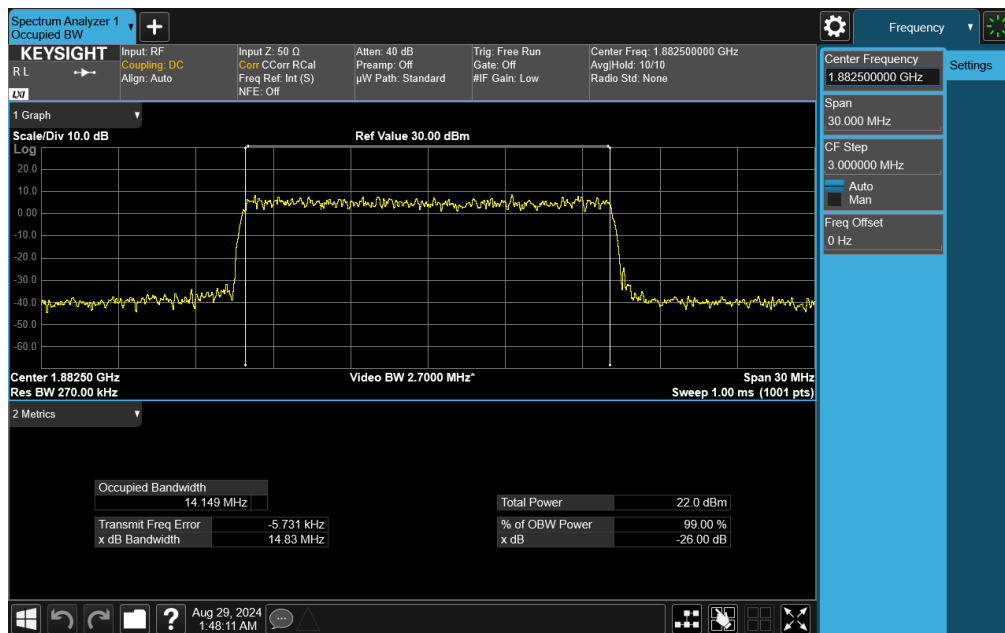
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 32 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

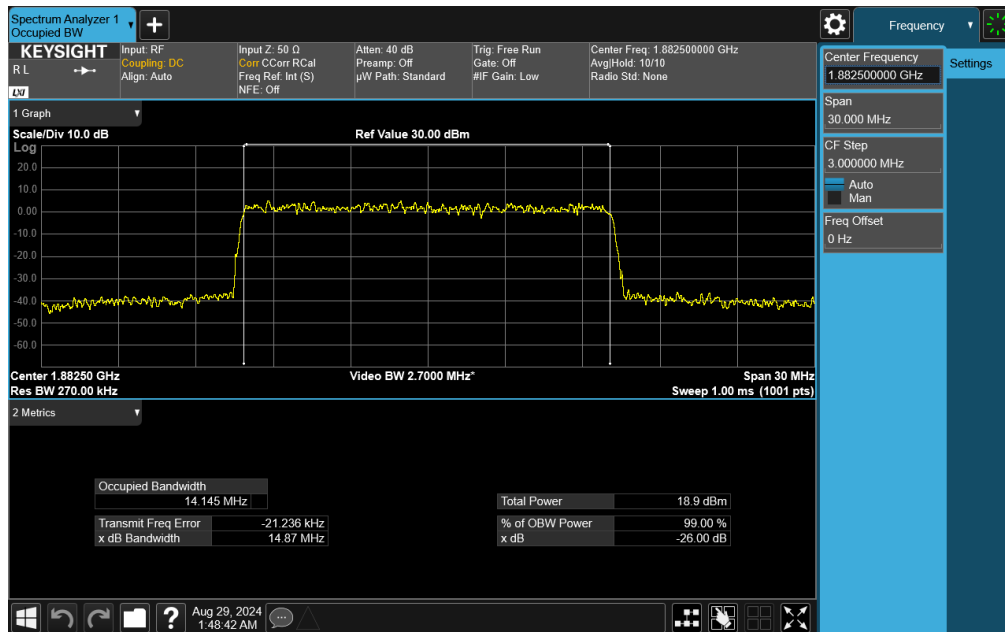


Plot 7-37. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM 16QAM - Full RB)

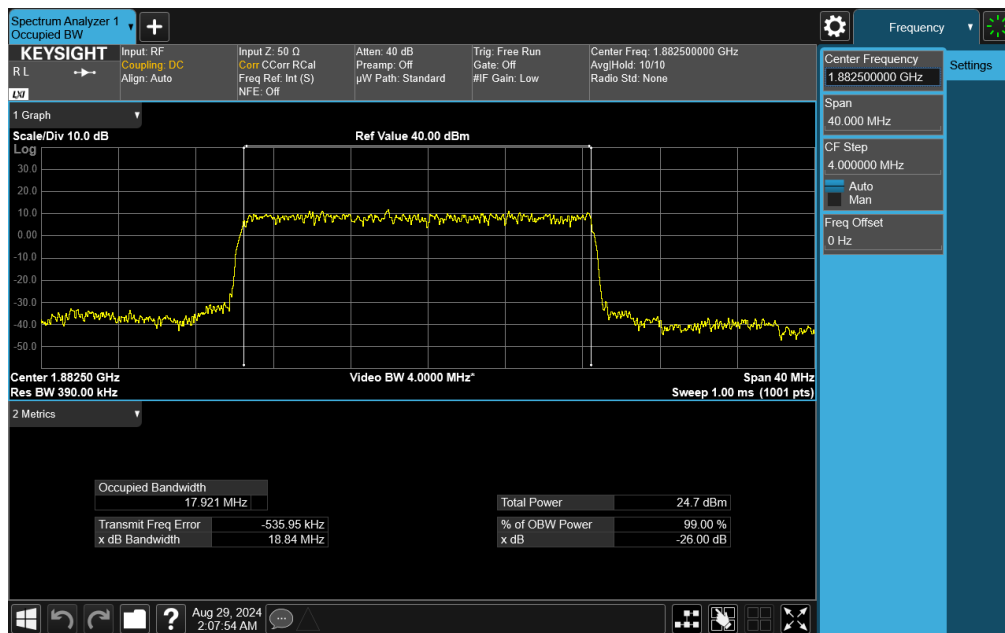


Plot 7-38. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM 64QAM - Full RB)


FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 33 of 219



Plot 7-39. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM 256QAM - Full RB)

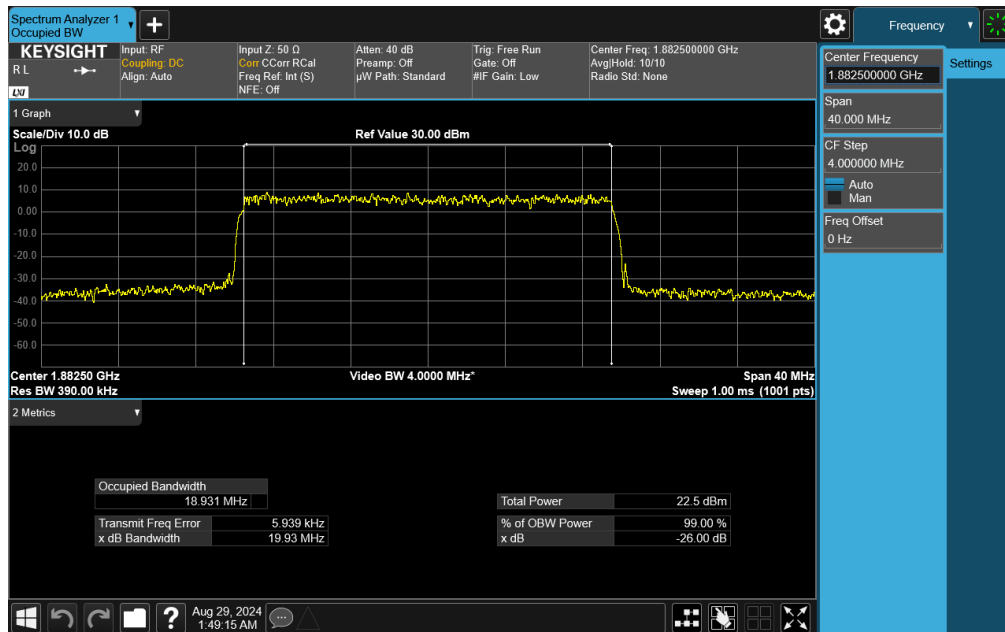


Plot 7-40. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

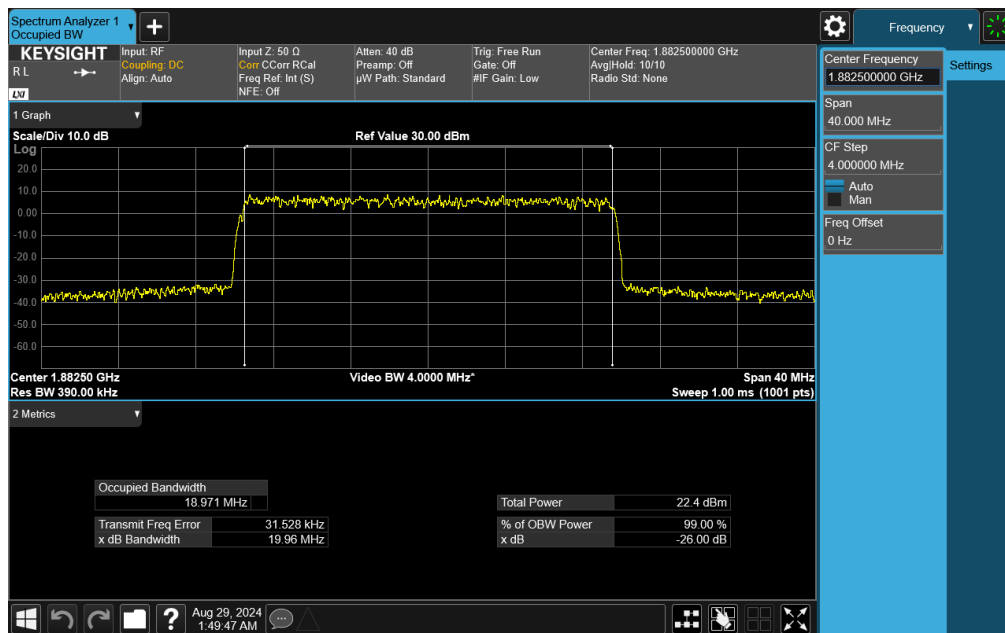
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 34 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-41. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM QPSK - Full RB)

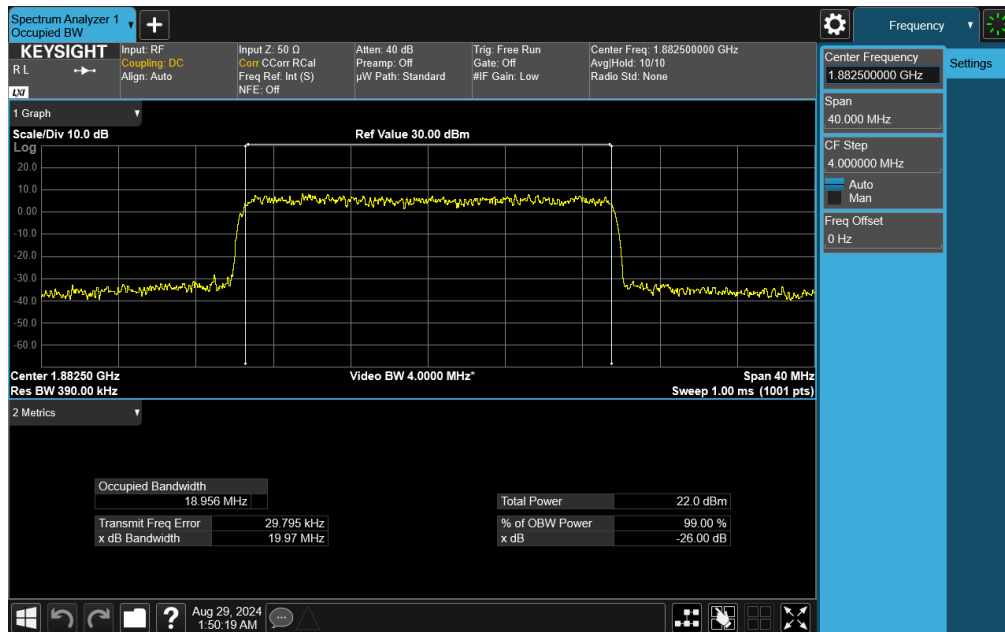


Plot 7-42. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM 16QAM - Full RB)

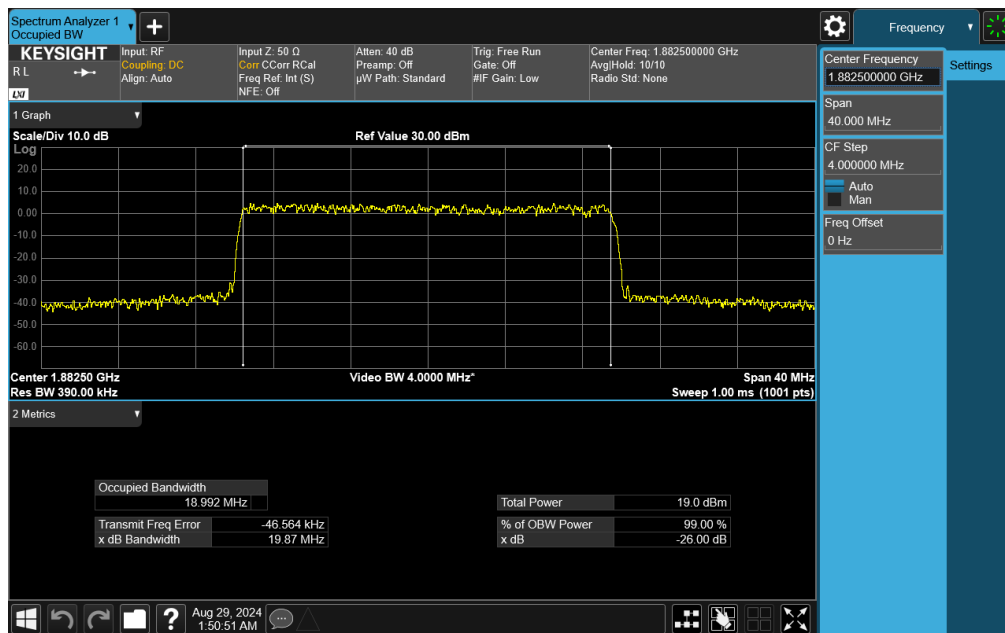
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 35 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-43. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM 64QAM - Full RB)

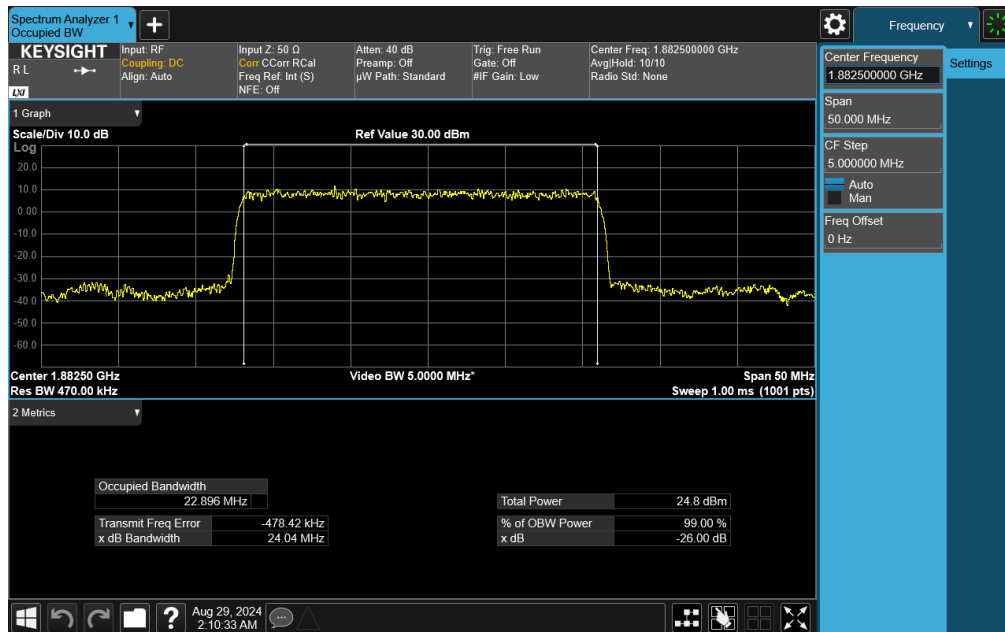


Plot 7-44. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM 256QAM - Full RB)

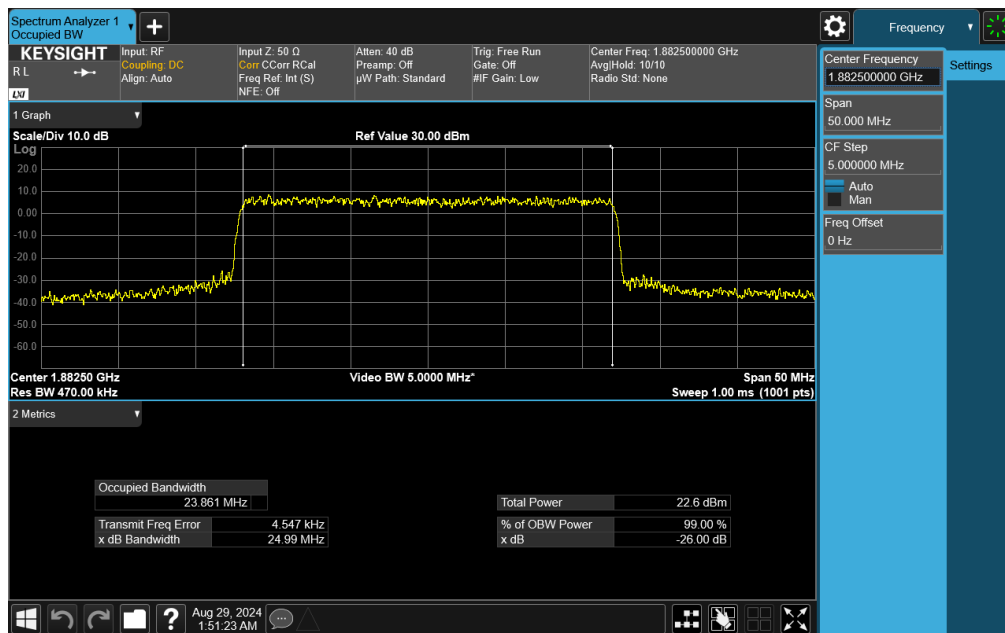
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 36 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-45. Occupied Bandwidth Plot (NR Band n25 - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

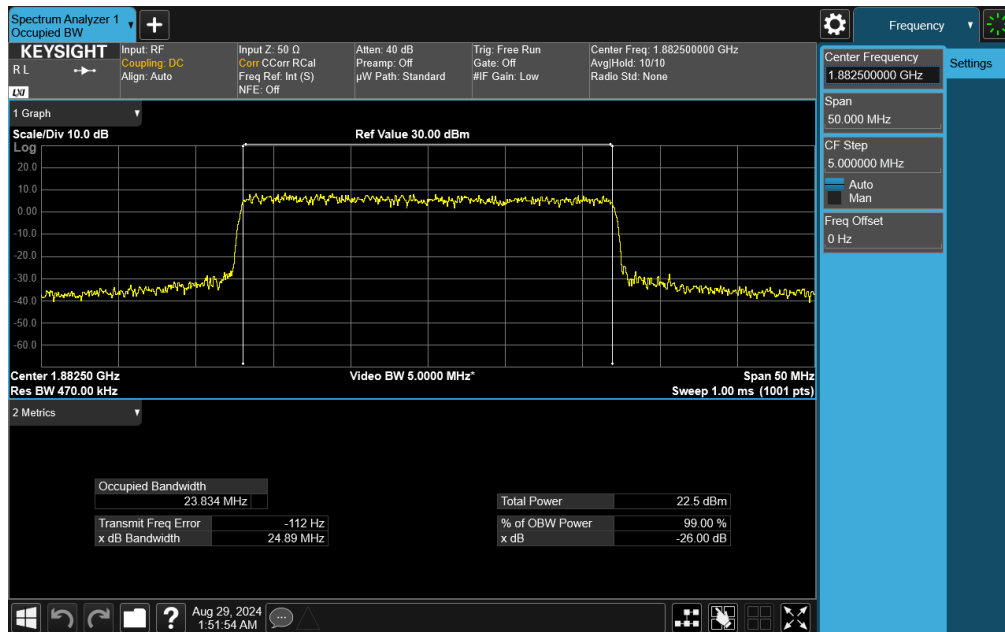


Plot 7-46. Occupied Bandwidth Plot (NR Band n25 - 25MHz CP-OFDM QPSK - Full RB)

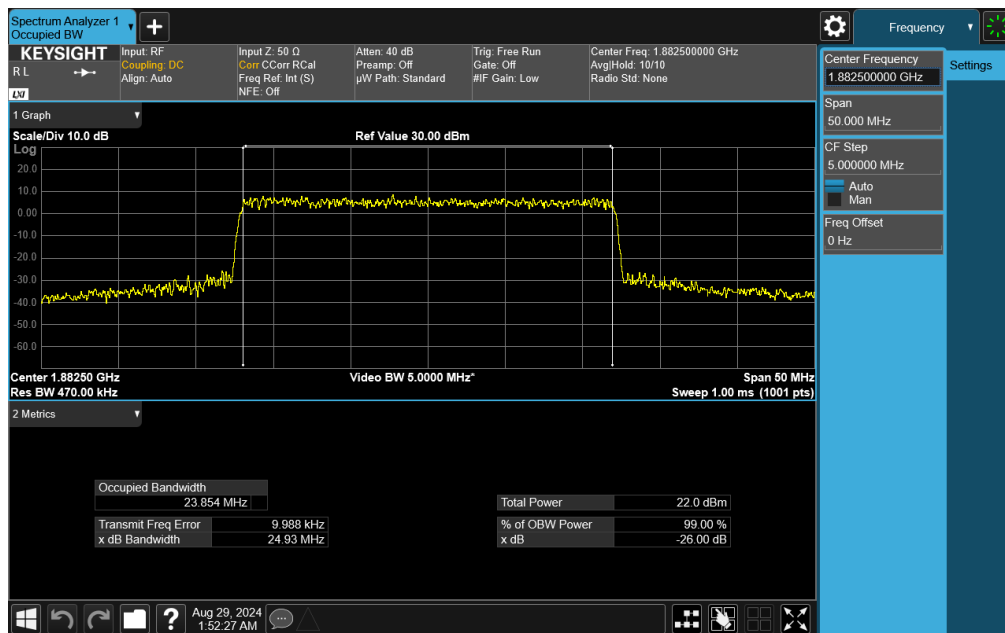
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 37 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-47. Occupied Bandwidth Plot (NR Band n25 - 25MHz CP-OFDM 16QAM - Full RB)

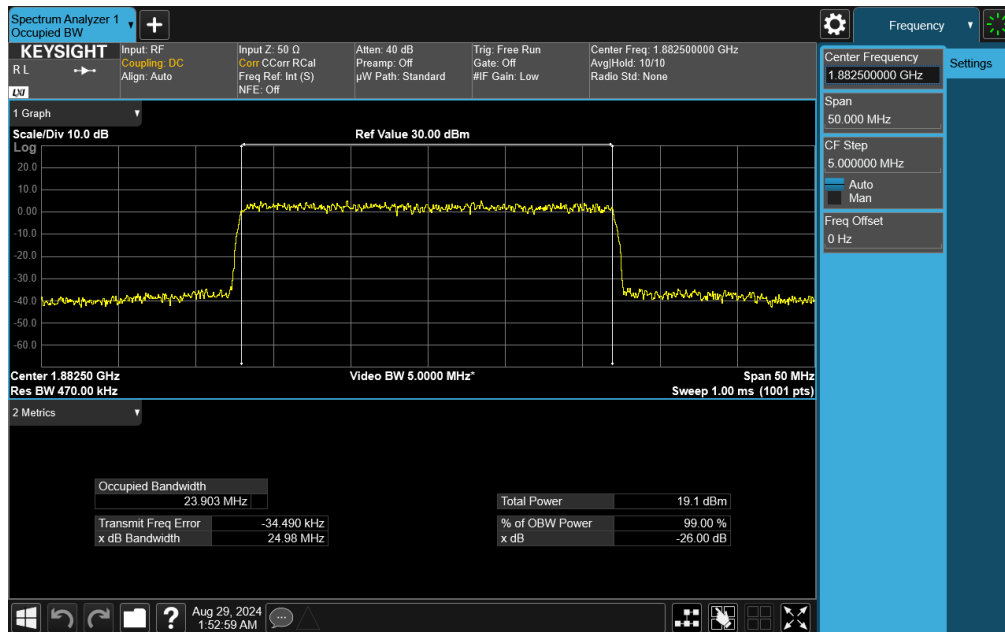


Plot 7-48. Occupied Bandwidth Plot (NR Band n25 - 25MHz CP-OFDM 64QAM - Full RB)

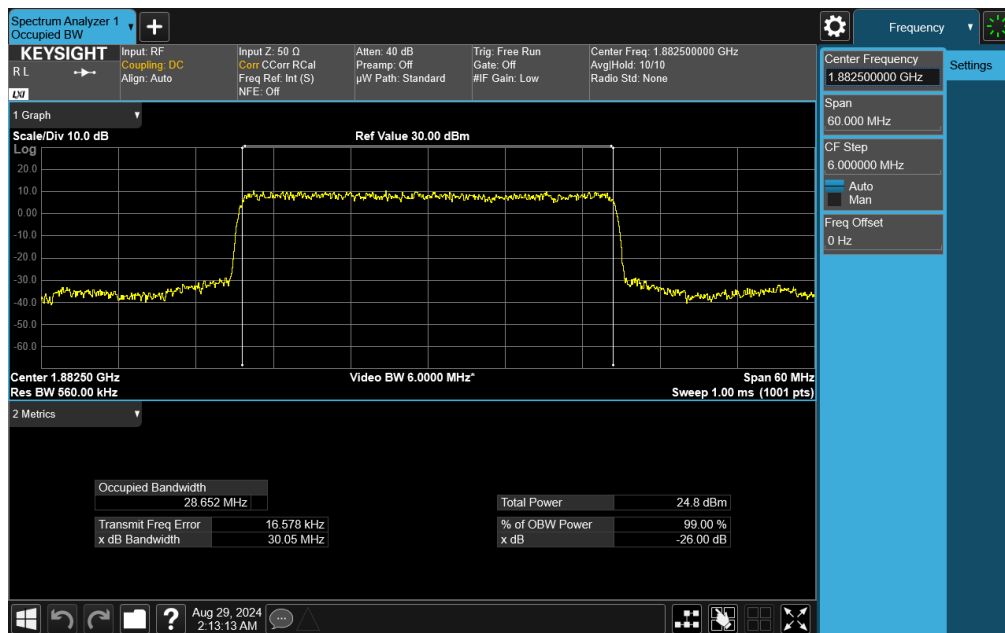
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 38 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-49. Occupied Bandwidth Plot (NR Band n25 - 25MHz CP-OFDM 256QAM - Full RB)

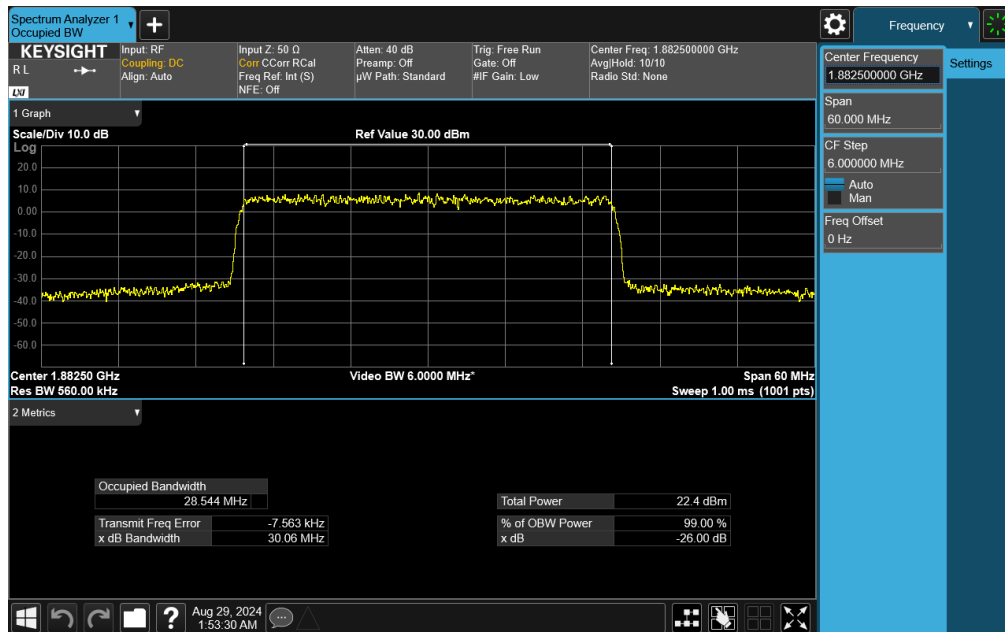


Plot 7-50. Occupied Bandwidth Plot (NR Band n25 - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

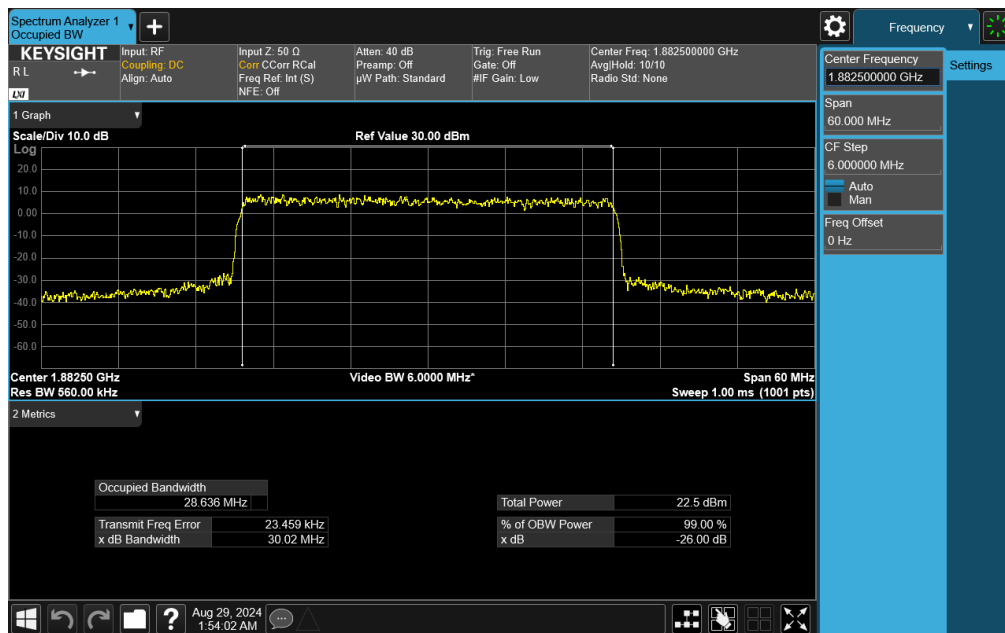
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 39 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-51. Occupied Bandwidth Plot (NR Band n25 - 30MHz CP-OFDM QPSK - Full RB)

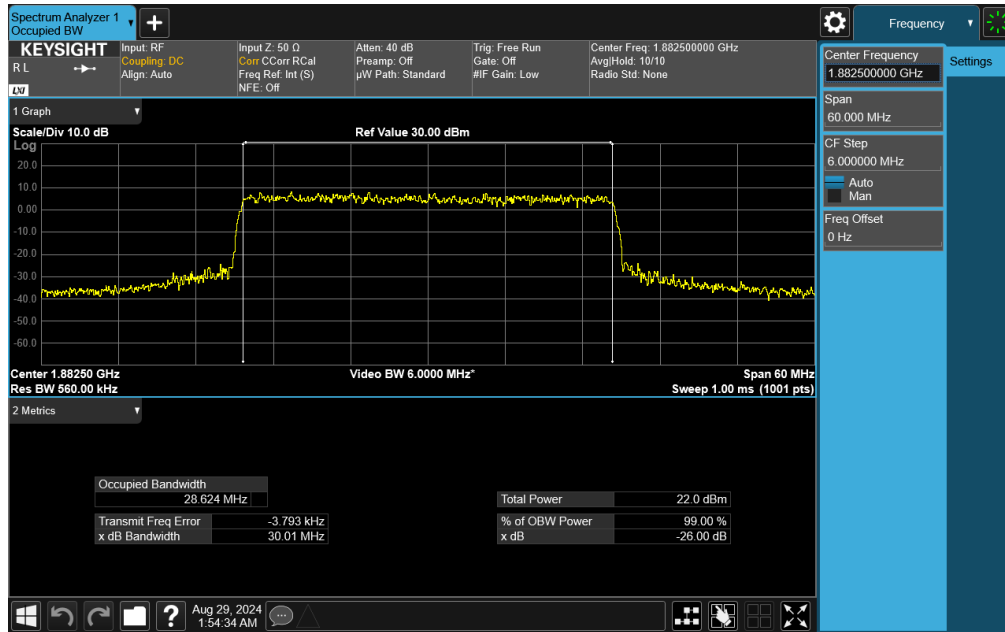


Plot 7-52. Occupied Bandwidth Plot (NR Band n25 - 30MHz CP-OFDM 16QAM - Full RB)

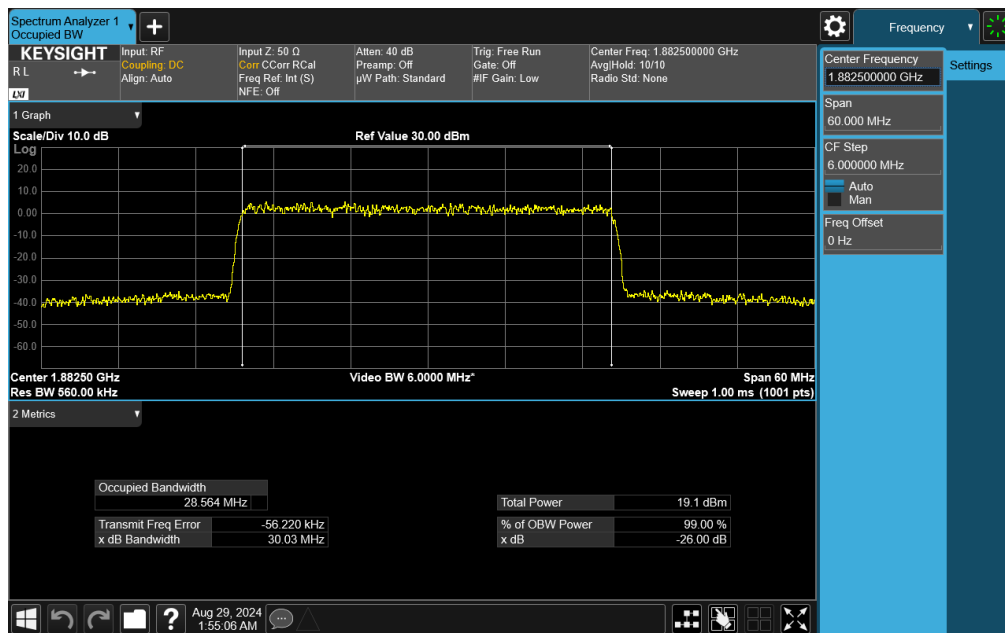
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	Page 40 of 219
	EUT Type: Tablet Device	

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

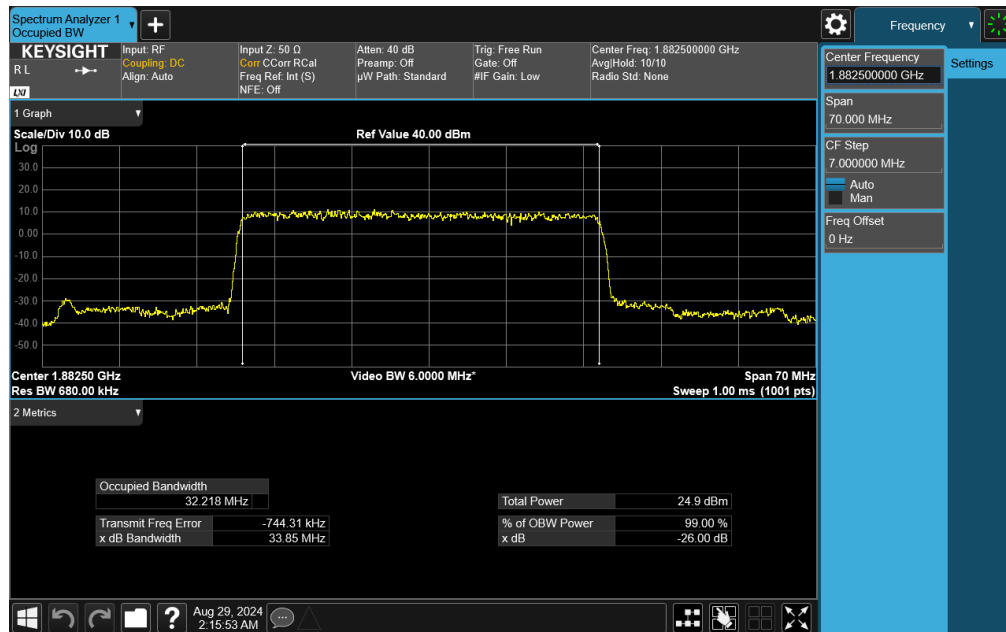


Plot 7-53. Occupied Bandwidth Plot (NR Band n25 - 30MHz CP-OFDM 64QAM - Full RB)

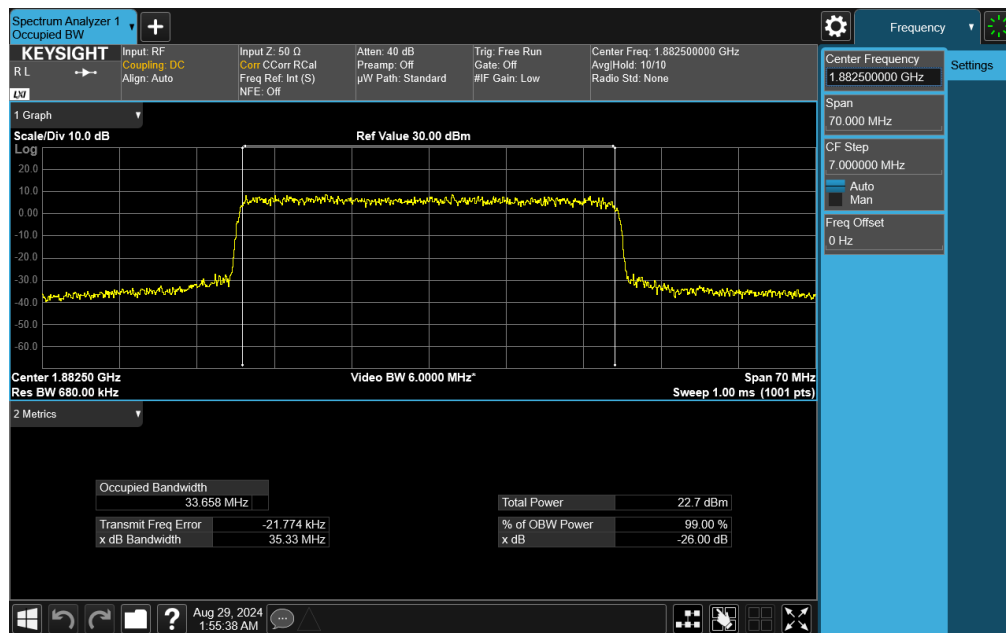


Plot 7-54. Occupied Bandwidth Plot (NR Band n25 - 30MHz CP-OFDM 256QAM - Full RB)


FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 41 of 219

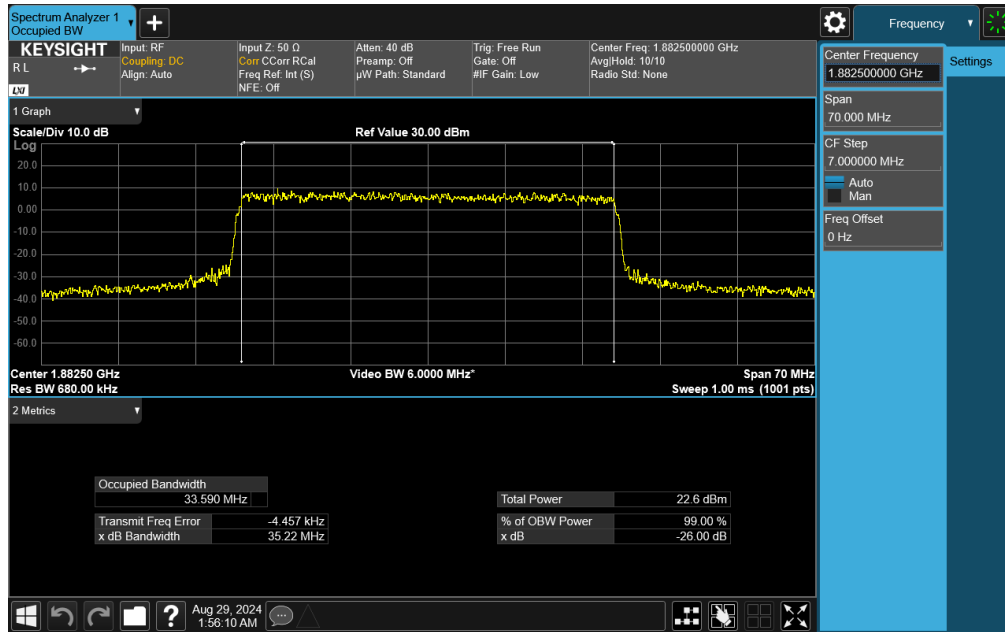


Plot 7-55. Occupied Bandwidth Plot (NR Band n25 - 35MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

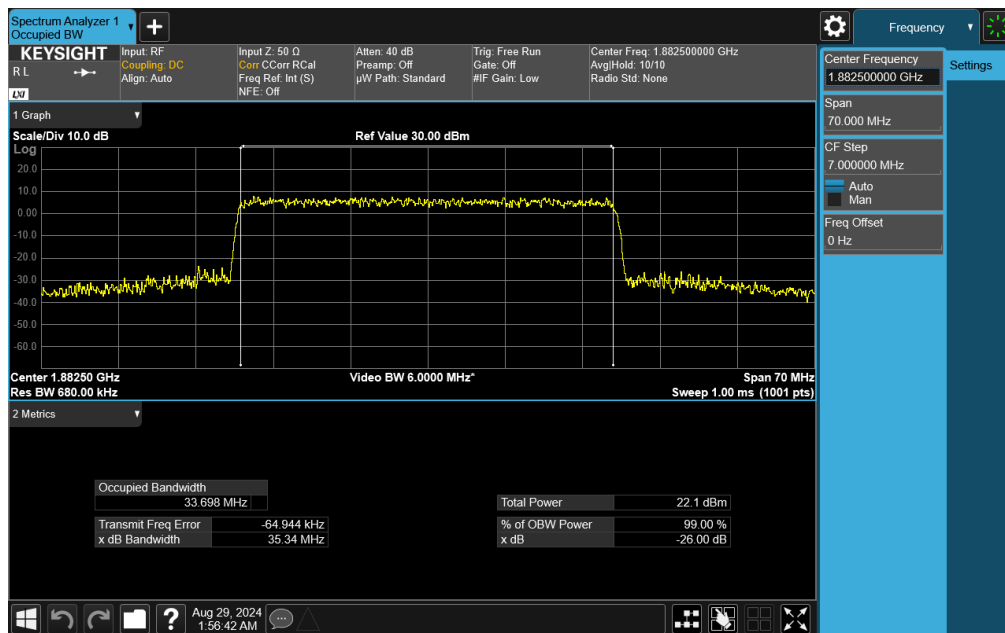


Plot 7-56. Occupied Bandwidth Plot (NR Band n25 - 35MHz CP-OFDM QPSK - Full RB)


FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 42 of 219

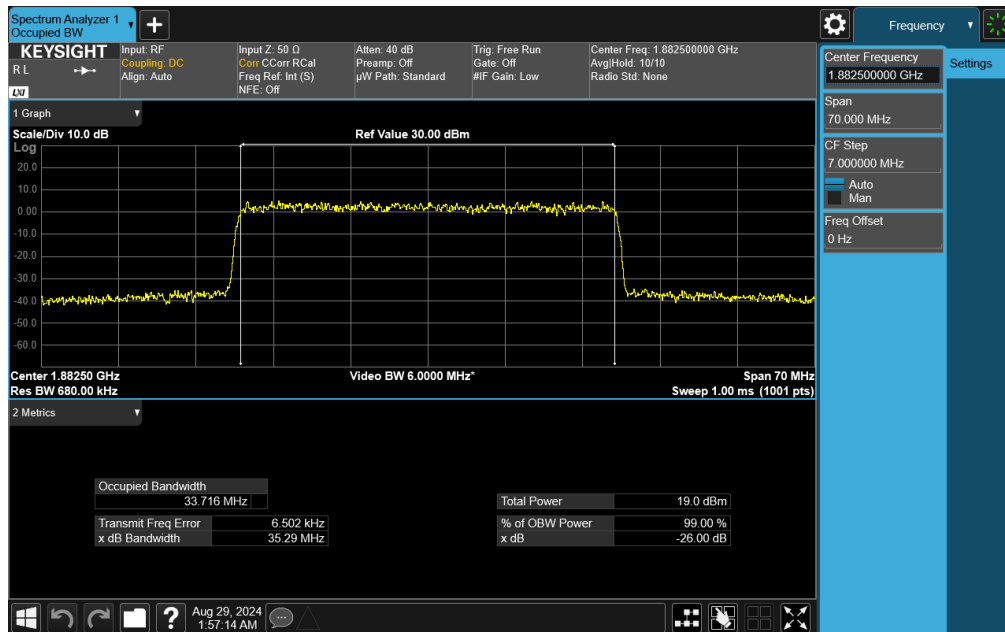


Plot 7-57. Occupied Bandwidth Plot (NR Band n25 - 35MHz CP-OFDM 16QAM - Full RB)

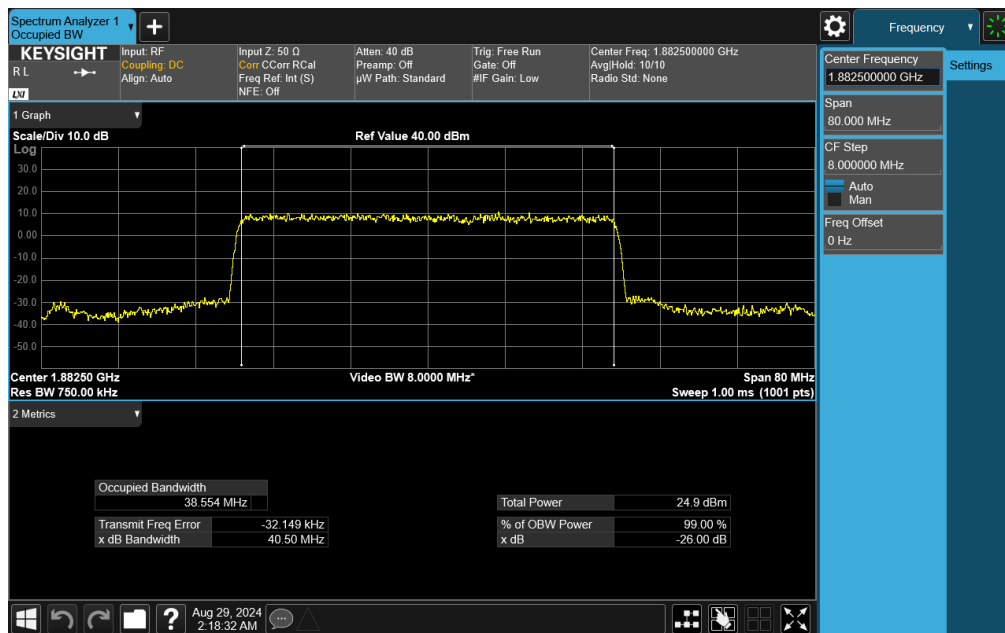


Plot 7-58. Occupied Bandwidth Plot (NR Band n25 - 35MHz CP-OFDM 64QAM - Full RB)


FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 43 of 219



Plot 7-59. Occupied Bandwidth Plot (NR Band n25 - 35MHz CP-OFDM 256QAM - Full RB)

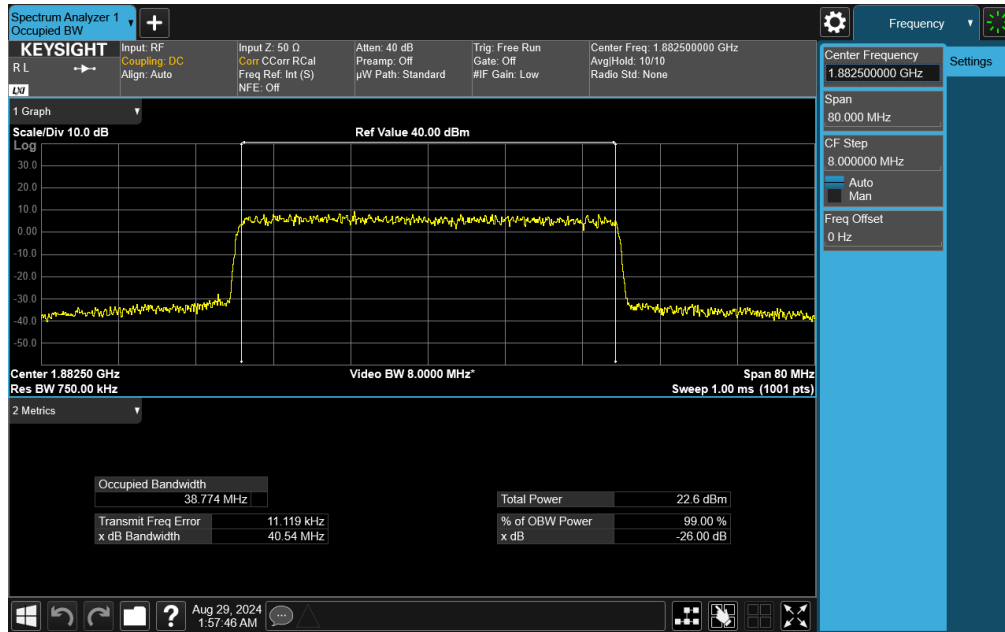


Plot 7-60. Occupied Bandwidth Plot (NR Band n25 - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

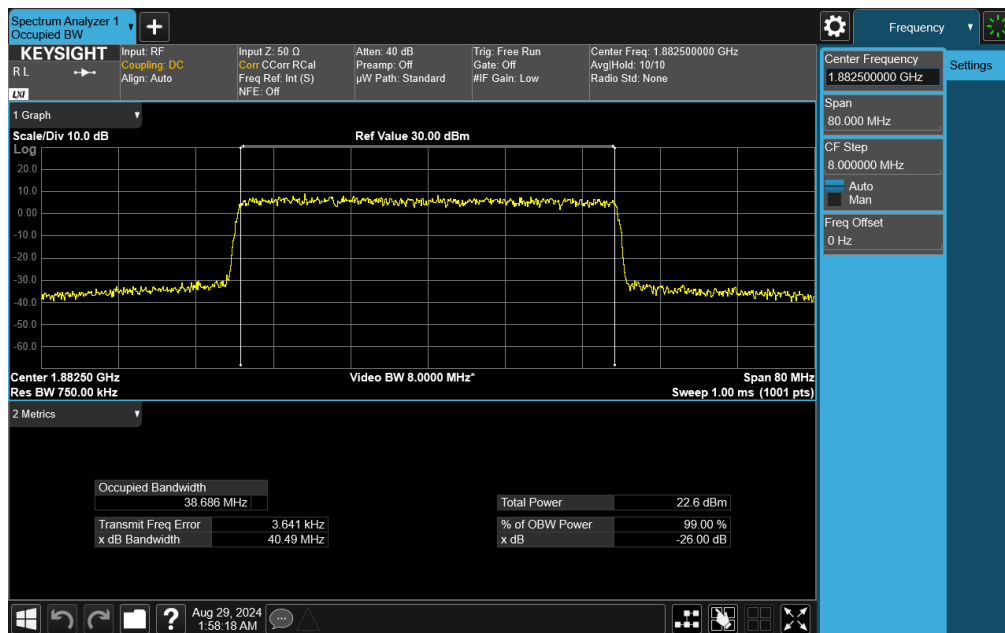
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 44 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

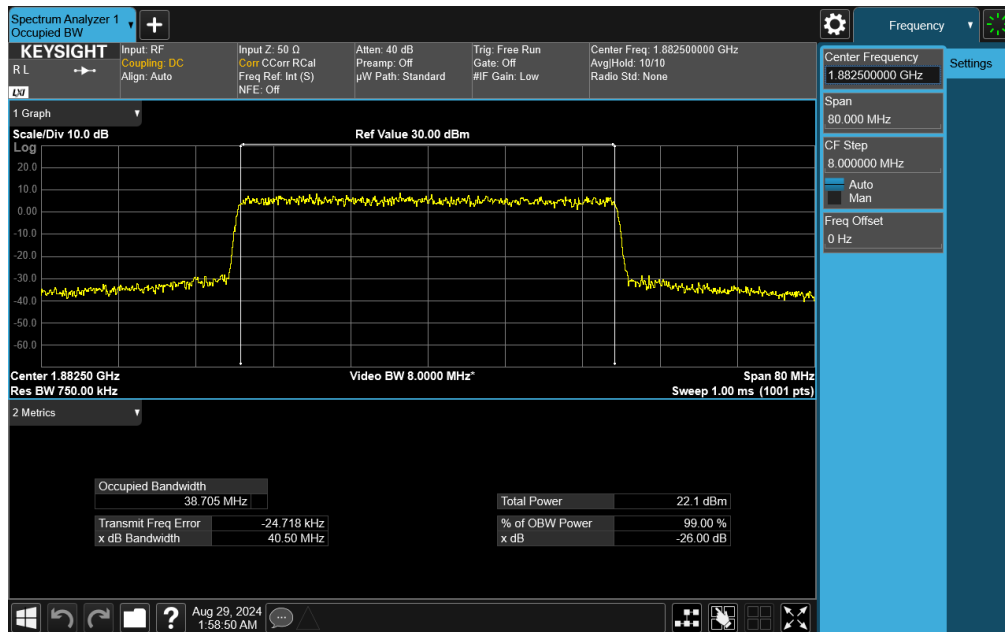


Plot 7-61. Occupied Bandwidth Plot (NR Band n25 - 40MHz CP-OFDM QPSK - Full RB)

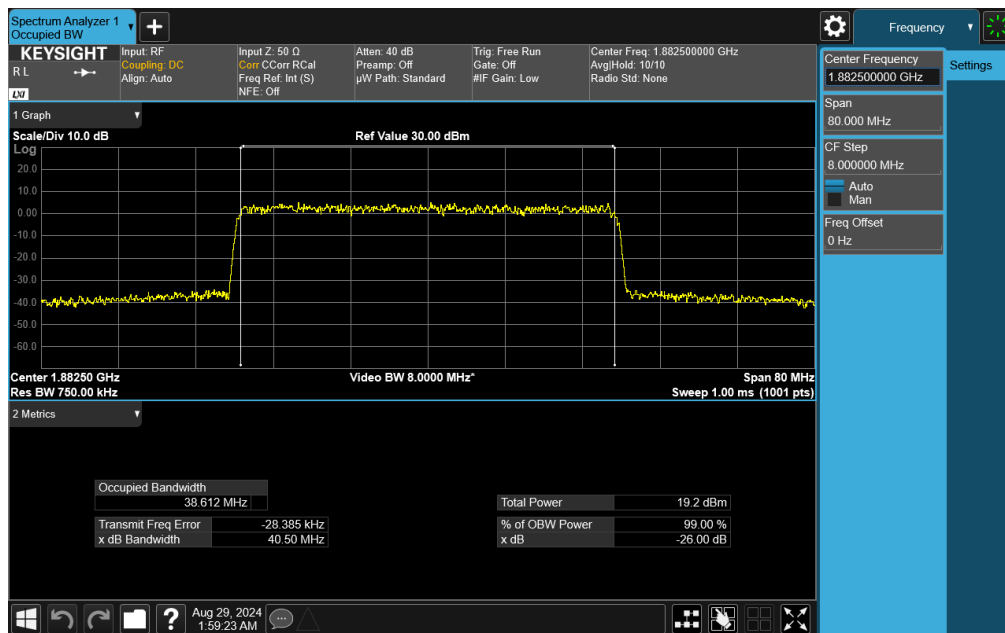


Plot 7-62. Occupied Bandwidth Plot (NR Band n25 - 40MHz CP-OFDM 16QAM - Full RB)


FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 45 of 219



Plot 7-63. Occupied Bandwidth Plot (NR Band n25 - 40MHz CP-OFDM 64QAM - Full RB)



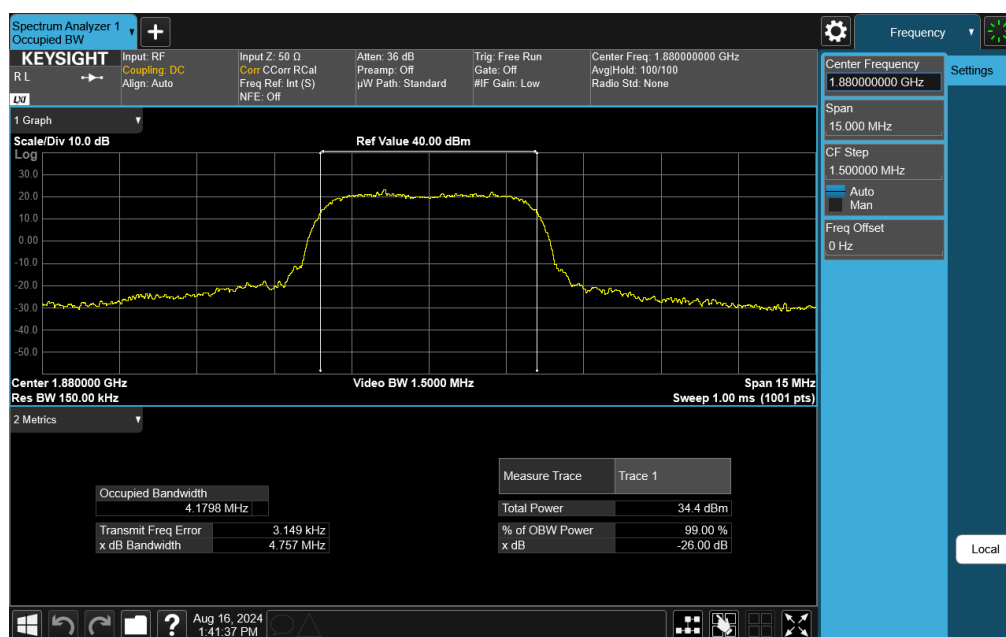
Plot 7-64. Occupied Bandwidth Plot (NR Band n25 - 40MHz CP-OFDM 256QAM - Full RB)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 46 of 219


V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

WCDMA PCS



Plot 7-65. Occupied Bandwidth Plot (WCDMA, Ch. 9400)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 47 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, §24.238(a)

Test Overview and Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates 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. All ports were tested and only the worst case data were reported.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 20GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

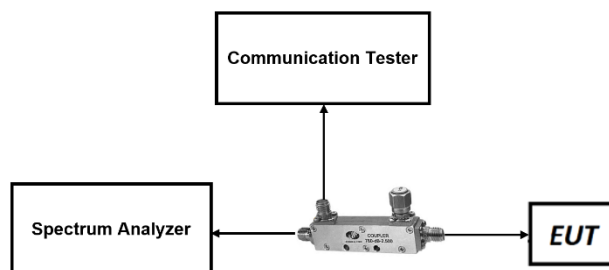


Figure 7-3. LTE Test Instrument & Measurement Setup

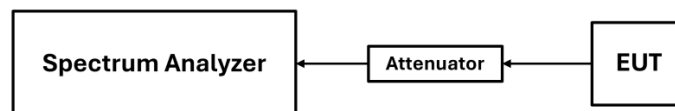




Figure 7-4. FR1 Test Instrument & Measurement Setup

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 48 of 219

V2.2 09/07/2023

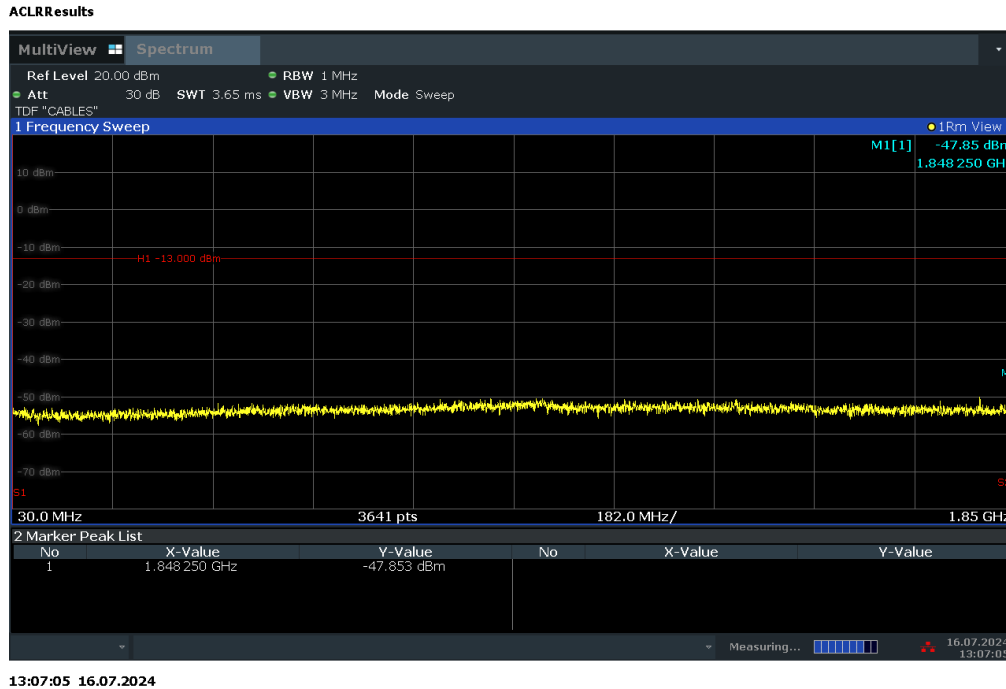
Test Notes

1. Per Part 24, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. 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.
3. NR band n25 overlaps the entire frequency range of NR band 2. Therefore, the conducted emissions data of NR band n25 provided in this report covers NR band n2.

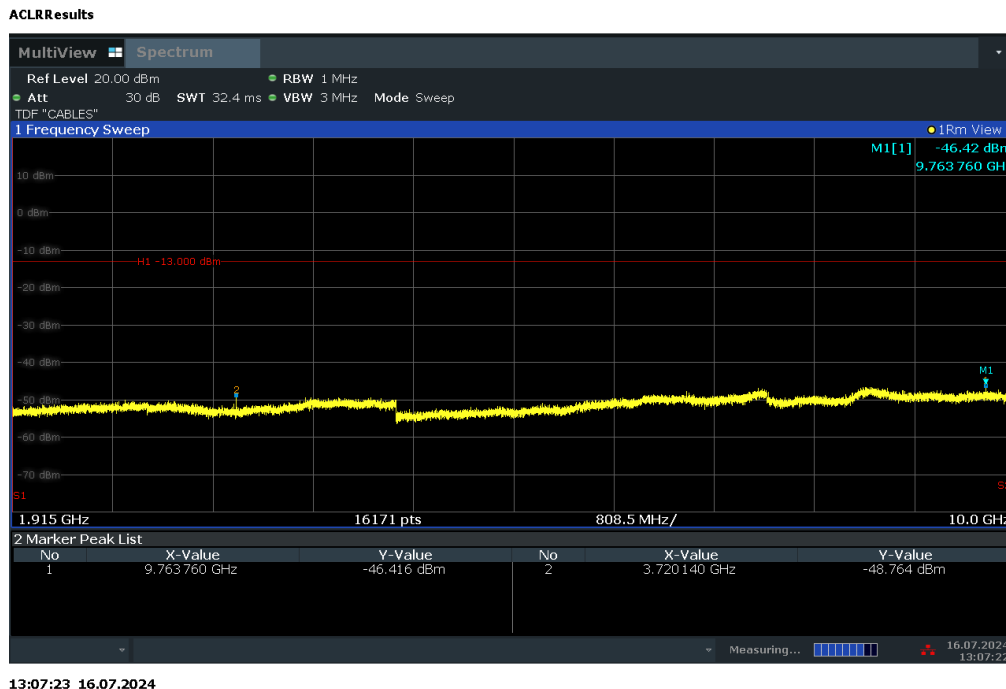
FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 49 of 219

V2.2 09/07/2023


LTE Band 25/2



Plot 7-66. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



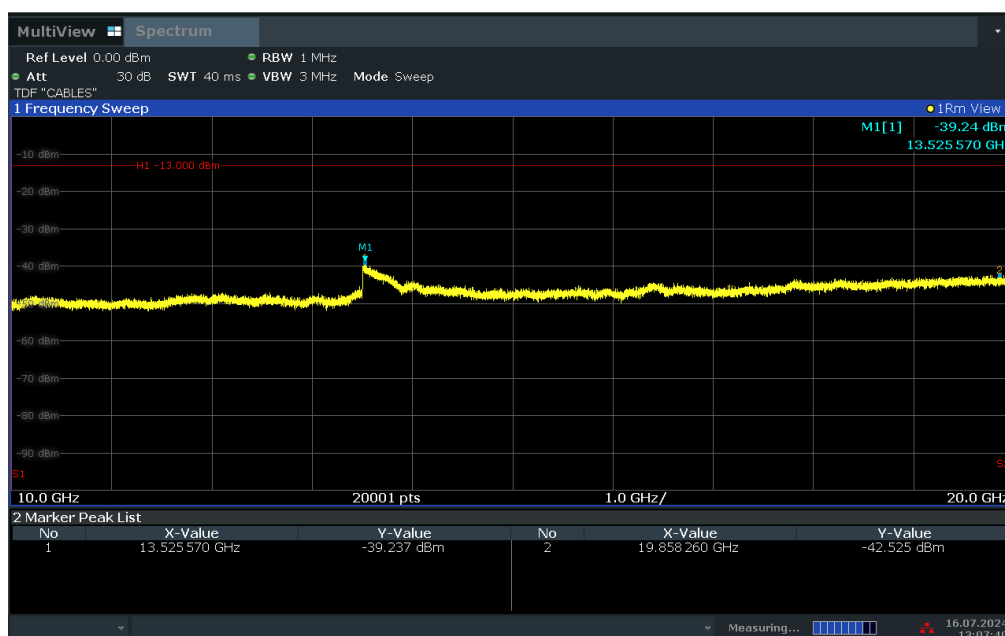
Plot 7-67. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 50 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

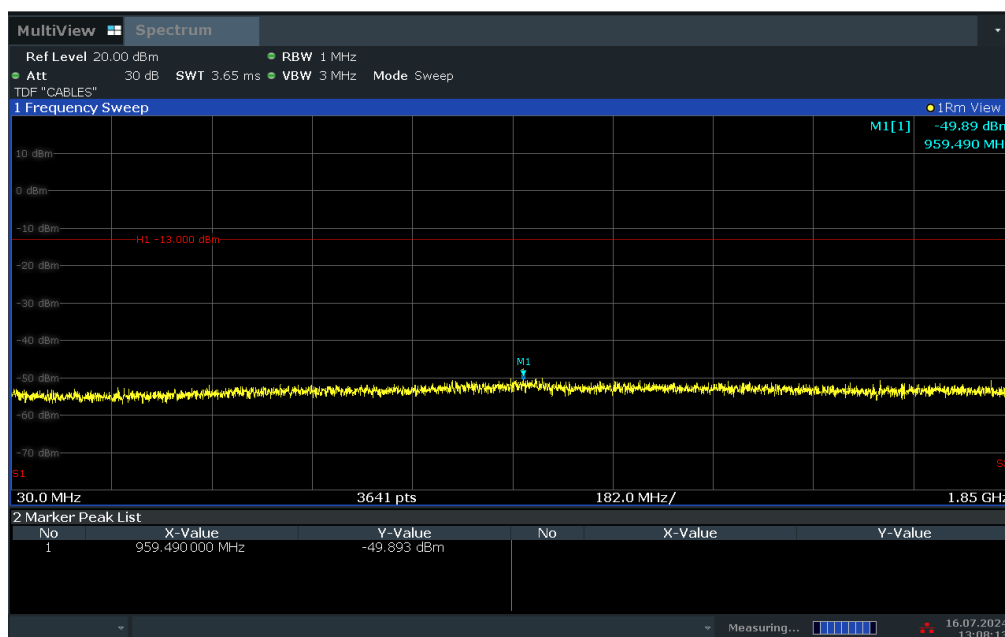
ACLRRResults



13:07:41 16.07.2024


Plot 7-68. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

ACLRRResults



13:08:13 16.07.2024

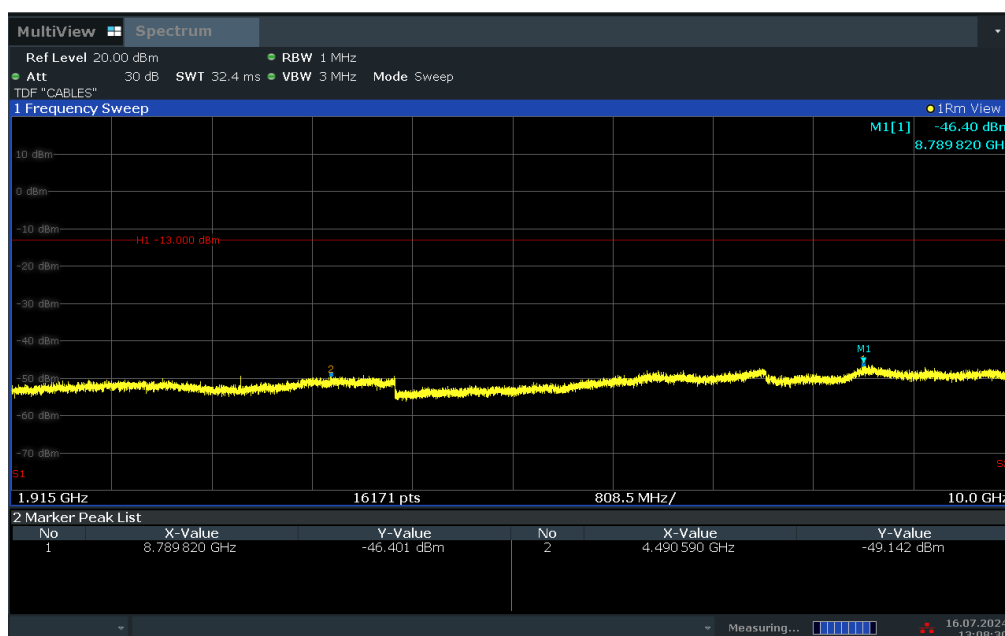
Plot 7-69. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 51 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

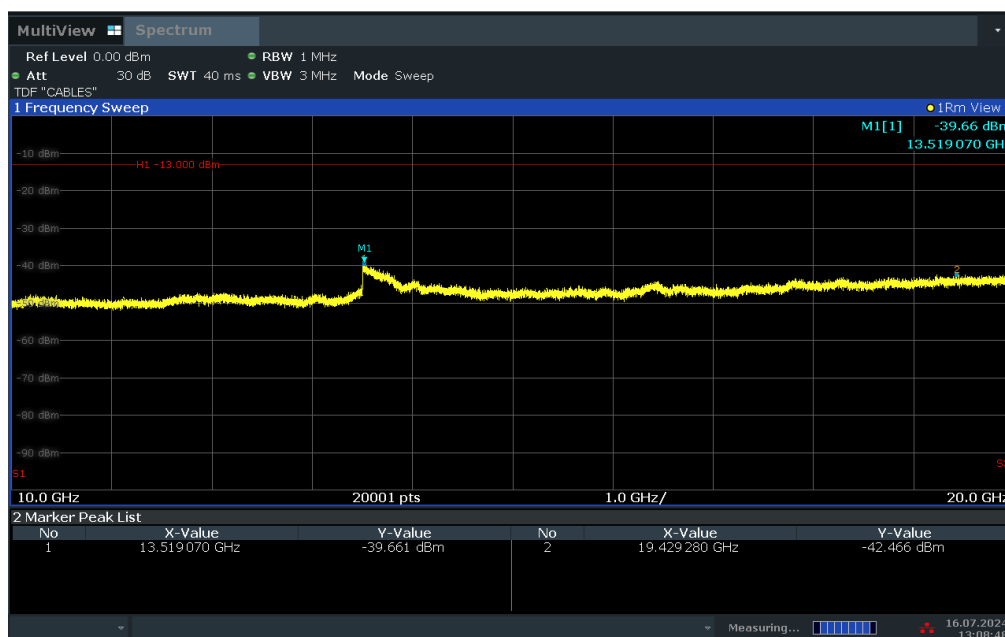
ACLRRResults



13:08:31 16.07.2024


Plot 7-70. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

ACLRRResults



13:08:49 16.07.2024

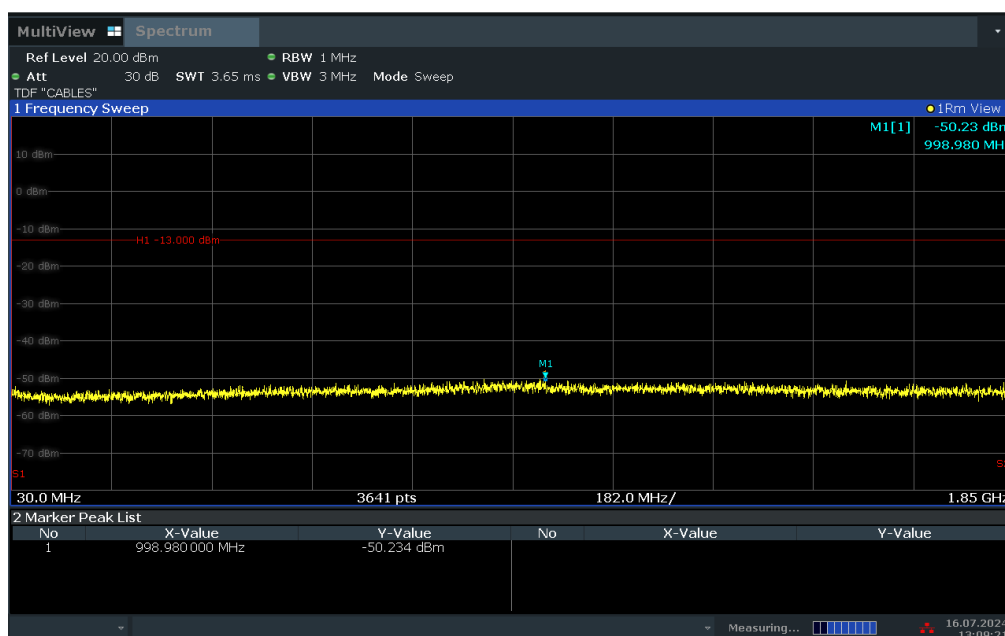
Plot 7-71. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 52 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

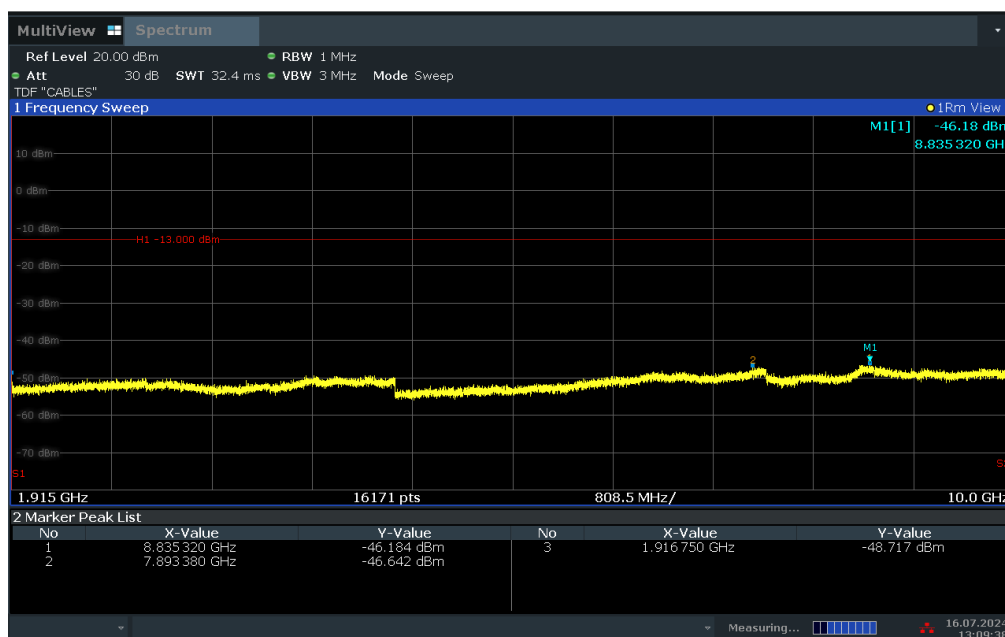
ACLRRResults



13:09:21 16.07.2024


Plot 7-72. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

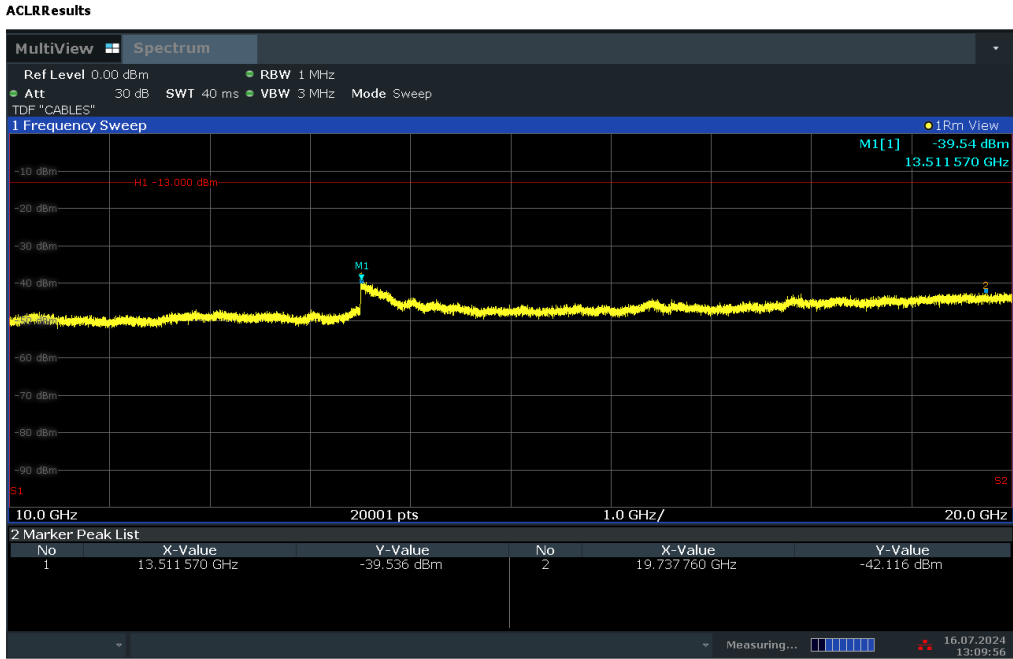
ACLRRResults



13:09:39 16.07.2024


Plot 7-73. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 53 of 219



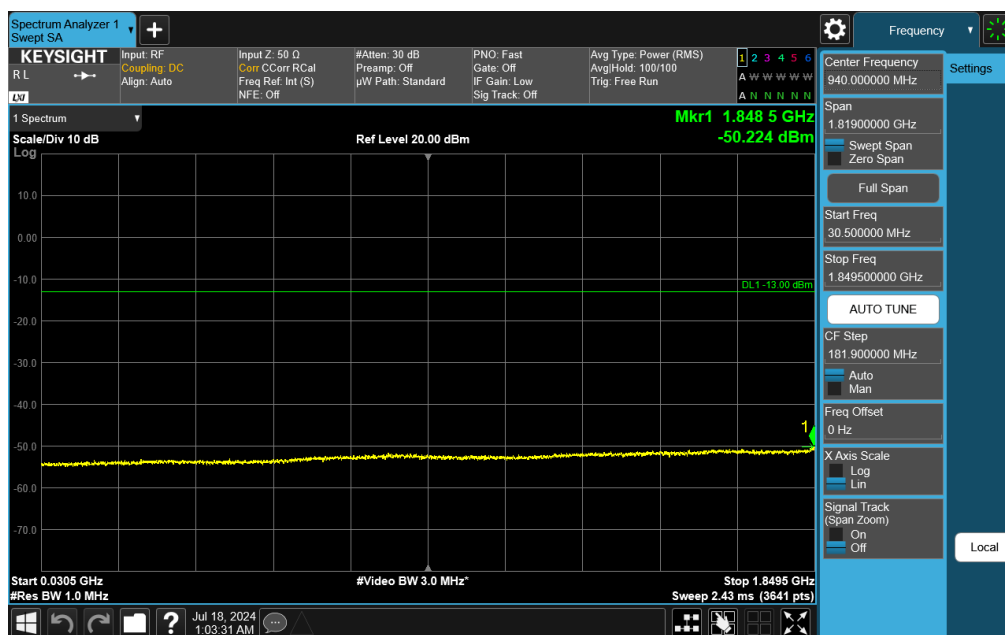
13:09:57 16.07.2024

Plot 7-74. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

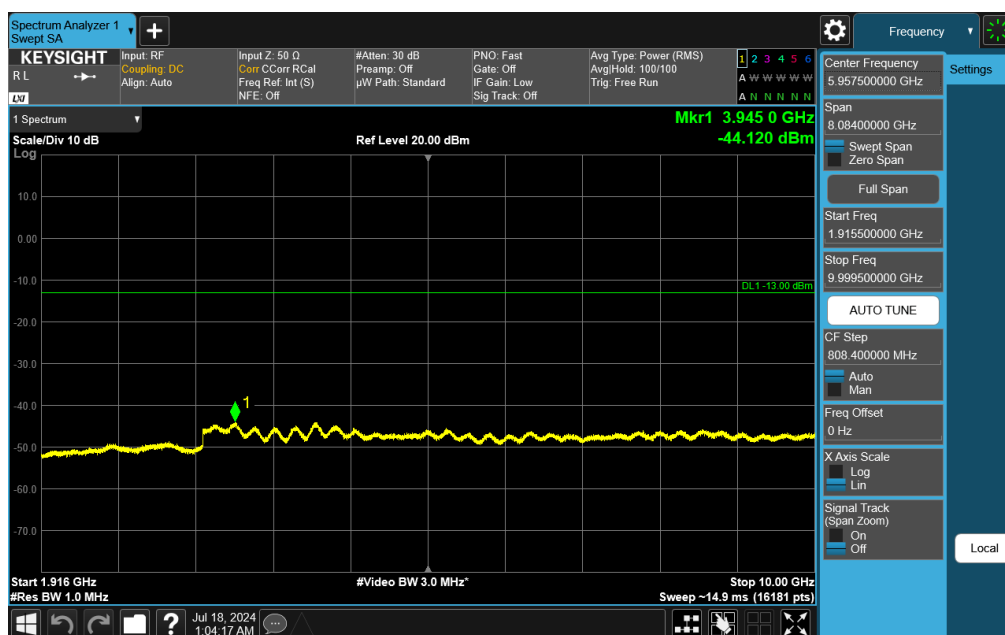
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 54 of 219

V2.2 09/07/2023


NR Band n25/n2



Plot 7-75. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - Low Channel)

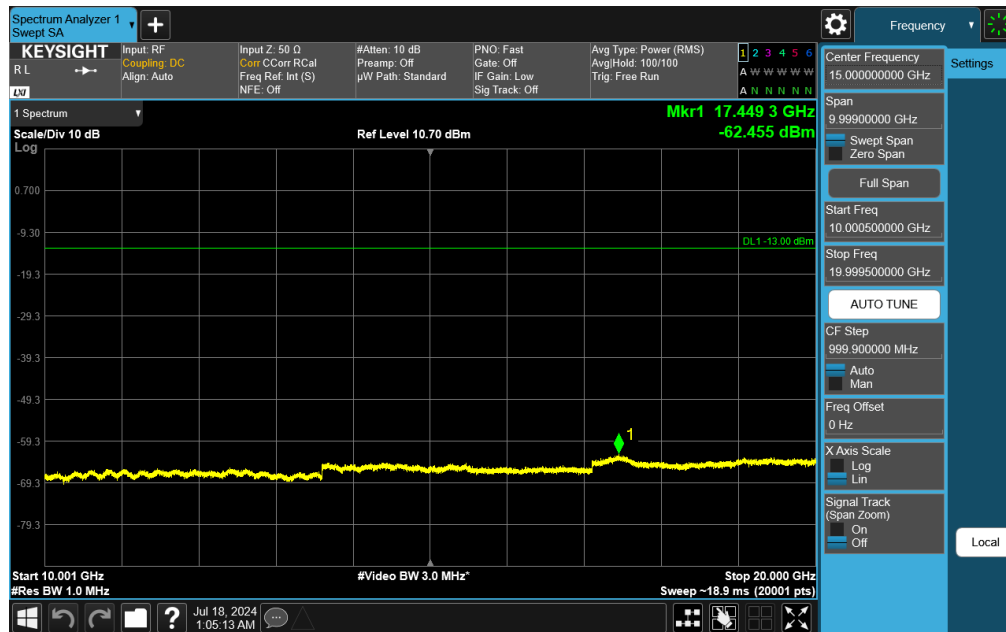


Plot 7-76. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - Low Channel)

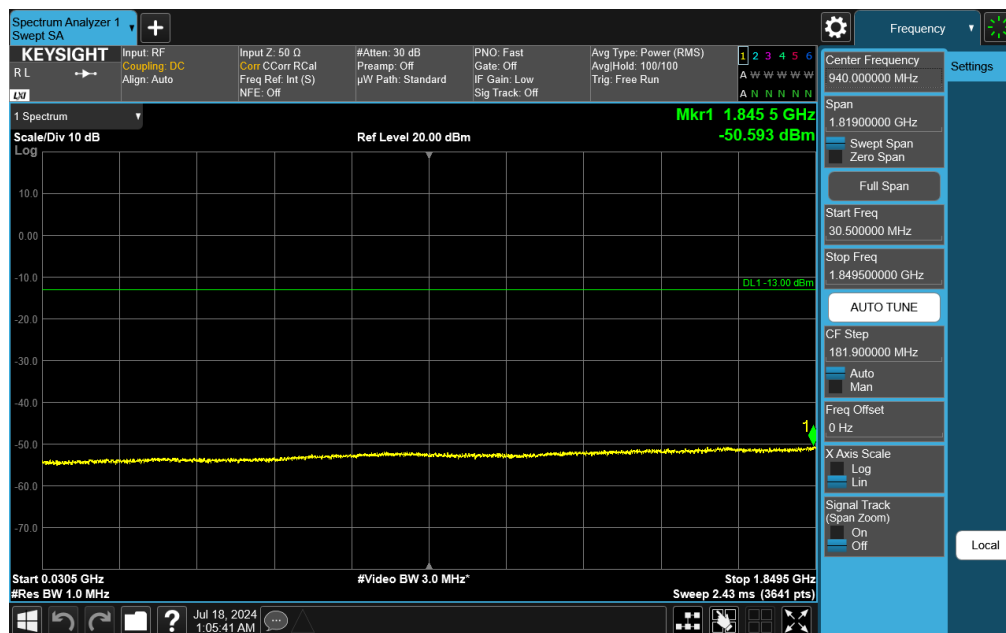
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 55 of 219

V2.2 09/07/2023


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-77. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-78. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 56 of 219

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.