**MEASUREMENT REPORT****FCC PART 15.407 / ISSED RSS-248 UNII 6GHz 802.11ax/be OFDMA****Applicant Name:**

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

Date of Testing:

9/15/2025 - 12/10/2025

Test Report Issue Date:

1/15/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100081-16-R1.BCG

FCC ID:

BCGA3461

IC:

579C-A3461

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3461

EUT Type:

Tablet Device

Frequency Range:

5955 – 7115MHz

Modulation Type:

OFDMA

FCC Classification:

15E 6GHz Low Power Dual Client (6CD)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-248 Issue 3

Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, KDB 789033 D02 v02r01
KDB 662911 D01 v02r01, KDB 987594 D02 v03
KDB 987594 D03 v03r04, KDB 987594 D04 v03
KDB 987594 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 ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2509100081-16-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 1 of 655

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Revision Summary

Revision	Date	Comments	Revised By
-	12/17/2025	Initial Release	WKR0000007200
R1	01/13/2026	Addressed TCB comments in sections 2.2, 6.0, 7.3, 7.5, and 7.6	WKR007111

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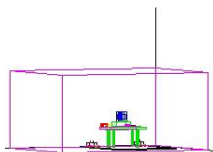
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MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO						CDD/SDM Primary Summed		CDD/SDM Diversity Summed	
				Antenna WF7a		Antenna WF2a		Antenna WF7b		Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)
				Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)				
5	20	802.11be	5955 - 6415	94.783	19.77	113.958	20.57	95.243	19.79	200.447	23.02	197.697	22.96
6		802.11be	6435 - 6515	68.381	18.35	66.151	18.21	59.856	17.77	135.207	21.31	116.413	20.66
7		802.11be	6535 - 6855	93.704	19.72	96.920	19.86	102.898	20.12	186.638	22.71	203.704	23.09
5	40	802.11be	5965 - 6405	95.446	19.80	106.616	20.28	95.749	19.81	205.589	23.13	197.242	22.95
6		802.11be	6445 - 6525	90.223	19.55	87.515	19.42	101.186	20.05	174.582	22.42	200.909	23.03
7		802.11be	6565 - 6845	90.680	19.58	97.442	19.89	97.634	19.90	186.638	22.71	207.491	23.17
5	80	802.11be	5985 - 6385	104.575	20.19	106.459	20.27	102.787	20.12	207.014	23.16	199.526	23.00
6		802.11be	6465	70.055	18.45	72.200	18.59	58.430	17.67	133.045	21.24	116.681	20.67
7		802.11be	6545 - 6805	94.760	19.77	97.349	19.88	103.525	20.15	182.810	22.62	209.894	23.22
5	160	802.11be	6025 - 6345	102.854	20.12	112.474	20.51	104.252	20.18	203.236	23.08	204.174	23.10
6		802.11be	6505	68.921	18.38	72.364	18.60	59.768	17.76	139.959	21.46	117.490	20.70
7		802.11be	6665	95.409	19.80	97.158	19.87	105.973	20.25	184.927	22.67	213.796	23.30

EUT Overview Standard Power

UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO						SDM Primary Summed		SDM Diversity Summed	
				Antenna WF7a		Antenna WF2a		Antenna WF7b		Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)
				Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)				
5	20	802.11ax	5955 - 6415	8.492	9.29	8.750	9.42	8.166	9.12	8.511	9.30	8.472	9.28
6		802.11ax	6435 - 6515	8.375	9.23	8.166	9.12	7.112	8.52	8.035	9.05	7.482	8.74
7		802.11ax	6535 - 6875	7.621	8.82	8.110	9.09	8.185	9.13	7.430	8.71	7.889	8.97
8	40	802.11ax	6895 - 7095	8.433	9.26	8.128	9.10	6.427	8.08	8.017	9.04	7.112	8.52
5		802.11ax	5965 - 6405	16.368	12.14	16.255	12.11	16.106	12.07	16.032	12.05	16.331	12.13
6		802.11ax	6445 - 6525	16.406	12.15	16.672	12.22	16.406	12.15	16.444	12.16	16.444	12.16
7	80	802.11ax	6565 - 6845	14.322	11.56	15.171	11.81	15.922	12.02	14.454	11.60	15.488	11.90
8		802.11ax	6885 - 7085	16.558	12.19	16.482	12.17	13.490	11.30	16.520	12.18	14.521	11.62
5		802.11ax	5985 - 6385	31.333	14.96	31.623	15.00	30.761	14.88	30.690	14.87	30.690	14.87
6	160	802.11ax	6465	30.903	14.90	30.549	14.85	27.227	14.35	31.189	14.94	29.444	14.69
7		802.11ax	6545 - 6865	29.648	14.72	33.497	15.25	31.696	15.01	29.854	14.75	32.211	15.08
8		802.11ax	6945 - 7025	31.477	14.98	31.915	15.04	25.293	14.03	30.479	14.84	27.353	14.37
5	160	802.11ax	6025 - 6345	62.373	17.95	61.944	17.92	60.954	17.85	58.076	17.64	58.105	17.49
6		802.11ax	6505	39.994	16.02	46.238	16.65	34.435	15.37	40.365	16.06	36.559	15.63
7		802.11ax	6665 - 6825	56.624	17.53	61.376	17.88	62.951	17.99	55.976	17.48	59.156	17.72
8		802.11ax	6985	57.943	17.63	58.614	17.68	46.666	16.69	58.749	17.69	52.845	17.23

EUT Overview Low Power Indoor

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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 located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISCED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISCED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISCED Canada as designated by NIST under the U.S. and Canada Mutual Recognition 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: BCGA3461** and **IC: 579C-A3461**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band.

Test Device Serial No.: H4D0365M2C, DR2VJ9M4FX, KVGJJYV1Q9, D76621F7WC, DLXHKM0001L00013YY, DLXHKM0001N00013YY

2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), Narrowband (NB) UNII (5GHz and 6GHz), WPT.

This device supports BT Beamforming

This device supports channel puncturing and channel bandwidth reduction.

Standard Power (SP) mode is supported in U-NII Bands 5 and 7 for FCC and U-NII Bands 5, 6 and 7 for ISSED. Low Power Indoor (LPI) mode is supported in U-NII Bands 5, 6, 7, 8. Throughout report, data of Standard Power mode is denoted as SP while data of Lower Power Indoor mode is denoted as LPI.

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Band 5

Ch.	Frequency (MHz)
1	5955
:	:
45	6175
:	:
93	6415

Band 6

Ch.	Frequency (MHz)
97	6435
:	:
105	6475
:	:
113	6515

Band 7

Ch.	Frequency (MHz)
117	6535
:	:
149	6695
:	:
185	6875

Band 8

Ch.	Frequency (MHz)
189	6895
:	:
209	6995
:	:
233	7115

Table 2-1. 802.11a/ax/be (20MHz) Frequency / Channel Operations

Band 5

Ch.	Frequency (MHz)
3	5965
:	:
43	6165
:	:
91	6405

Band 6

Ch.	Frequency (MHz)
99	6445
:	:
107	6485
:	:
115	6525

Band 7

Ch.	Frequency (MHz)
123	6565
:	:
155	6725
:	:
179	6845

Band 8

Ch.	Frequency (MHz)
187	6885
:	:
211	7005
:	:
227	7085

Table 2-2. 802.11ax/be (40MHz BW) Frequency / Channel Operations

Band 5

Ch.	Frequency (MHz)
7	5985
:	:
39	6145
:	:
87	6385

Band 6

Ch.	Frequency (MHz)
103	6465

Band 7

Ch.	Frequency (MHz)
119	6545
:	:
151	6705
:	:
183	6865

Band 8

Ch.	Frequency (MHz)
199	6945
:	:
215	7025

Table 2-3. 802.11ax/be (80MHz BW) Frequency / Channel Operations

Band 5

Ch.	Frequency (MHz)
15	6025
:	:
47	6185
:	:
79	6345

Band 6

Ch.	Frequency (MHz)
111	6505

Band 7

Ch.	Frequency (MHz)
143	6665
:	:
175	6825

Band 8

Ch.	Frequency (MHz)
207	6985

Table 2-4. 802.11ax/be (160MHz BW) Frequency / Channel Operations

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6GHz NII operation is possible in 20MHz, 40MHz, 80MHz and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B2)b) KDB 789033 D02 v02r01 and ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

802.11 Mode/Band	Antenna WF7a		Antenna WF2a		Antenna WF7b		CDD/SDM Primary		CDD/SDM Diversity	
	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
be(RU) 26T EHT20	97.769	0.098	97.701	0.101	97.949	0.090	97.949	0.090	97.769	0.098
be(RU) 52T EHT20	97.611	0.105	97.904	0.092	97.701	0.101	97.769	0.098	97.769	0.098
be(RU) 106T EHT20	97.949	0.090	98.265	0.076	97.701	0.101	97.701	0.101	97.949	0.090
be(RU) 242T EHT20	97.949	0.090	98.152	0.081	97.701	0.101	97.701	0.101	98.220	0.078
be(RU) 26T EHT40	97.769	0.098	97.949	0.090	97.454	0.112	97.589	0.106	97.611	0.105
be(RU) 52T EHT40	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	97.611	0.105
be(RU) 106T EHT40	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	97.701	0.101
be(RU) 242T EHT40	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	97.769	0.098
be(RU) 484T EHT40	97.611	0.105	97.949	0.090	97.949	0.090	98.107	0.083	98.107	0.083
be(RU) 26T EHT80	97.769	0.098	97.949	0.090	97.701	0.101	97.611	0.105	28.003	5.528
be(RU) 52T EHT80	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	98.017	0.087
be(RU) 106T EHT80	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	97.454	0.112
be(RU) 242T EHT80	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	98.288	0.075
be(RU) 484T EHT80	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	98.288	0.075
be(RU) 996T EHT80	97.454	0.112	97.949	0.090	98.130	0.082	97.769	0.098	97.701	0.101
be(RU) 26T EHT160	97.949	0.090	98.130	0.082	98.265	0.076	97.454	0.112	97.275	0.120
be(RU) 52T EHT160	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	97.679	0.102
be(RU) 106T EHT160	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	98.288	0.075
be(RU) 242T EHT160	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	97.611	0.105
be(RU) 484T EHT160	100.000	0.000	100.000	0.000	100.000	0.000	100.000	0.000	97.949	0.090
be(RU) 996T EHT160	98.107	0.083	98.107	0.083	97.769	0.098	98.107	0.083	97.769	0.098
be(RU) 996x2T EHT160	98.107	0.083	98.107	0.083	97.769	0.098	98.107	0.083	97.769	0.098
be(RU) 78T EHT20	97.701	0.101	98.107	0.083	97.949	0.090	97.769	0.098	97.701	0.101
be(RU) 132T EHT20	97.611	0.105	97.904	0.092	97.432	0.113	97.769	0.098	97.949	0.090
be(RU) 78T EHT40	100.000	0.000	100.000	0.000	100.000	0.000	97.701	0.101	100.000	0.000
be(RU) 132T EHT40	100.000	0.000	100.000	0.000	100.000	0.000	98.017	0.087	100.000	0.000
be(RU) 78T EHT80	100.000	0.000	100.000	0.000	100.000	0.000	97.701	0.101	100.000	0.000
be(RU) 132T EHT80	100.000	0.000	100.000	0.000	100.000	0.000	97.949	0.090	100.000	0.000
be(RU) 726T EHT80	98.130	0.082	98.107	0.083	97.949	0.090	98.130	0.082	97.769	0.098
be(RU) 1480T EHT160	97.949	0.090	98.130	0.082	98.130	0.082	98.107	0.083	97.949	0.090
be(RU) 1722T EHT160	97.454	0.112	97.949	0.090	97.611	0.105	97.769	0.098	97.611	0.105

Table 2-5. Measured Duty Cycles

CDD/SDM Primary = Antenna WF7a + Antenna WF2a

CDD/SDM Diversity = Antenna WF2a + Antenna WF7b

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1. The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO			CDD/SDM			STBC		
		Antenna WF7a	Antenna WF2a	Antenna WF7b	Antenna WF7a	Antenna WF2a	Antenna WF7b	Antenna WF7a	Antenna WF2a	Antenna WF7b
6GHz	11ax/be(RU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(RU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(RU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(RU) (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-6. WIFI Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

STBC = Space-Time Block Coding – 2Tx Function

2. The device supports the following data rates (shown in Mbps):

MCS Index		Spatial Stream	MU-OFDMA (802.11ax/be)																							
			26-tone RU			52-tone RU			106-tone RU			242-tone RU			484-tone RU			996-tone RU			2x996-tone RU					
HE	EHT		0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI			
0	0	1	0.9	0.8	0.8	1.8	1.7	1.5	3.8	3.5	3.2	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3			
1	1	1	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5			
2	2	1	2.6	2.5	2.3	5.3	5	4.5	11.3	10.6	9.6	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8			
3	3	1	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245			
4	4	1	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5			
5	5	1	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490			
6	6	1	7.9	7.5	6.8	15.9	15	13.5	33.8	31.9	28.7	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3			
7	7	1	8.8	8.3	7.5	17.6	16.7	15	37.5	35.4	31.9	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5			
8	8	1	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735			
9	9	1	11.8	11.1	10	23.5	22.2	20	50	47.2	42.5	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7			
10	10	1	13.2	12.5	11.3	26.5	25	22.5	56.3	53.1	47.8	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8			
11	11	1	14.7	13.9	12.5	29.4	27.8	25	62.5	59	53.1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8			
0	0	2	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5			
1	1	2	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245			
2	2	2	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5			
3	3	2	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490			
4	4	2	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735			
5	5	2	14.1	13.3	12	28.2	26.7	24	60	56.7	51	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980			
6	6	2	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5			
7	7	2	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1729.1	1633.3	1470			
8	8	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470			
9	9	2	23.5	22.2	20	47.1	44.4	40	100	94.4	85	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3			
10	10	2	26.5	25	22.5	52.9	50	45	112.5	106.3	95.6	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5			
11	11	2	29.4	27.8	25	58.8	55.6	50	125	118.1	106.3	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7			

Table 2-7. Supported Data Rates

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3. This device supports simultaneous transmission operations, which allows 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
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be
Ant WF7b	Config 1	✓	✗	✗	✗	✓	✗
Ant WF7b	Config 2	✓	✗	✗	✗	✗	✓
Ant WF7b	Config 3	✗	✓	✗	✗	✓	✗
Ant WF7b	Config 4	✗	✓	✗	✗	✗	✓
Ant WF7b	Config 5	✗	✗	✓	✓	✗	✗
Ant WF7b	Config 6	✗	✗	✓	✗	✓	✗
Ant WF7b	Config 7	✗	✗	✓	✗	✗	✓

Table 2-8. 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 5GHz OFDM test reports.

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2.3 Antenna Description

Following antenna gains provided by the manufacturer were used for testing

UNII Band	Frequency [GHz]	Highest Antenna Gain (dBi)			Lowest Antenna Gain (dBi)		
		Antenna WF7a	Antenna WF2a	Antenna WF7b	Antenna WF7a	Antenna WF2a	Antenna WF7b
5	5.955 – 6.105	1.0	1.1	0.5	0.9	0.6	-0.2
	6.105 – 6.265	1.2	0.8	1.2	0.4	0.0	-0.1
	6.265 – 6.425	0.3	-0.3	0.2	0.3	-0.3	0.2
6	6.425 – 6.525	0.5	-0.4	-0.2	0.5	-0.4	-0.2
7	6.525 – 6.875	1.8	0.9	2.3	1.1	-0.2	-2.3
8	6.875 – 7.125	2.2	1.2	1.3	0.4	-0.9	-4.5

Table 2-9. Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNP0M0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXXK1336018XKTR024
3	USB-C Cable	Model:	A2795	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A
6	ASUS ROG Rapture	Model:	GT-BE98 Pro	S/N:	S4IG6M200654J6F

Table 2-10. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, KDB 789033 D02 v02r01 and KDB 987594 D02 v03. ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

There are two vendors of the WiFi/Bluetooth radio modules, variant 1 and variant 2. Both radio modules have the same mechanical outline, same on-board antenna matching circuit, identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. The worst case configuration was found between the two variants. The EUT was also investigated with and without charger.

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.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and the worst cases were reported.

- EUT powered by AC/DC adaptor via USB-C cable with wire charger
- EUT powered by host PC via USB-C cable with wire charger

802.11be-mode test data provided in this report covers 802.11ax as target powers are identical.

For 802.11be-SU test results, see separate UNII 6GHz OFDM report, 1C2509100081-15.BCG.

2.6 Software and Firmware

The test was conducted with firmware version 23D40 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or 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 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.9. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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3.3 Radiated 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. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788, 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.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 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	2.00
Line Conducted Disturbance	1.88
Radiated Disturbance (<30MHz)	4.24
Radiated Disturbance (30MHz - 1GHz)	4.96
Radiated Disturbance (1 - 18GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

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6.0 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 with the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1306009
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1315051
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1339027
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Horn (1-18 GHz)	4/16/2025	Annual	4/16/2026	218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Fairview Microwave	FM2CP1122-10	Directional Coupler *	6/10/2025	Annual	6/10/2026	1946
Keysight Technology	N9040B	UXA Signal Analyzer	9/8/2025	Annual	9/8/2026	MY61320121
Keysight Technology	N9030A	PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
Mini-Circuits	ZN2PD-9G	Power Splitter*	9/16/2025	Annual	9/16/2026	SF456200530
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	11/21/2024	Annual	11/21/2025	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	5/13/2025	Annual	5/13/2026	101867
Rohde & Schwarz	SMW200A	Vector Signal Generator	3/10/2025	Annual	3/10/2026	110589
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2025	Annual	4/24/2026	101364
Rohde & Schwarz	CMX500	Wideband Radio Communication Tester	11/11/2024	Annual	11/11/2025	100298
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	10/8/2025	Annual	10/8/2026	00358

Table 6-1. Test Equipment List

Note:

- 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.
- * denotes passive equipment that have been internally verified/calibrated.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3461
 IC: 579C-A3461
 FCC Classification: 15E 6GHz Low Power Dual Client (6CD)

FCC Part Section(s) / KDB Reference	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049, 15.407(a)(11)	RSS Gen [6.7], RSS-248 [4.4]	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands < 320MHz (5.925 - 7.125GHz)	CONDUCTED	PASS	Section 7.2
15.407(a)(8)	RSS-248 [4.5.3]	Maximum Power Spectral Density	< -1dBm/MHz e.i.r.p. for Low Power Indoor		PASS	Section 7.4
15.407(a)(7)	RSS-248 [4.5.5]		< 17dBm/MHz e.i.r.p. for Standard Power		PASS	
15.407(a)(8)	RSS-248 [4.5.3]	Maximum EIRP	< 24dBm over the frequency band of operation		PASS	Section 7.3
15.407(a)(7)	RSS-248 [4.5.5]		< 30dBm over the frequency band of operation		PASS	
15.407(b)(7)	RSS-248 [4.6.2]	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7) and RSS-248 [4.6.2] b)		PASS	Section 7.5
15.407(d)(6)	RSS-248 [4.7]	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	Section 7.6
15.407(a)(7)	RSS-248 [4.5.5]	Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point	EUT maintains its power level at least 6 dB lower than that of the standard-power access point		PASS	Section 7.10
987594 D02 v03	987594 D02 v03	Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP	EUT maximum power level shall not exceed 30dBm EIRP when connected to Standard Power AP, and 24dBm EIRP when connected to Low Power Indoor AP	RADIATED	PASS	Section 7.11
15.407(b)(6)	RSS-248 [4.6.2]	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band		PASS	Section 7.7
15.205, 15.209	RSS-248 [4.6.2] RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.7, 7.8
15.407(b)(9)	RSS-Gen [8.8]	AC Conducted Emissions (150kHz – 30MHz)	< FCC 15.207 (RSS-Gen [8.8]) limits	LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer 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 and attenuators.
- 4) For conducted 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 "Conducted Automation," Version 1.5.0.
- 5) For radiated testing, 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 3.6.1.
- 6) All radiated measurements were tested at the highest supported power setting per band.
- 7) 802.11be OFDMA testing was performed for all signal tone configurations as specified by the 802.11be standard. Worst case results are determined and reported per the guidance provided at the October 2022 TCB Workshop.

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7.2 26dB & 99% Bandwidth Measurement

§2.1049; §15.407; RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.5.2
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = in the range of 1% to 5% of the emission bandwidth
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold

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

1. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's were reported.
2. Low, mid, and high channels and all antenna configurations were tested and tabular data has been reported. Only worst case bandwidth plots have been reported.

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7.2.1 Antenna WF7a 26dB & 99% Bandwidth Measurements – SP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	26	8	MCS5	18.35	20.09	320	Pass
	6175	45	be (20MHz)	26	0	MCS5	18.52	20.70	320	Pass
	6415	93	be (20MHz)	26	8	MCS5	18.29	20.02	320	Pass
	5965	3	be (40MHz)	26	8	MCS5	18.78	20.63	320	Pass
	6165	43	be (40MHz)	26	0	MCS5	18.30	20.46	320	Pass
	6405	91	be (40MHz)	26	8	MCS5	18.79	20.57	320	Pass
	5985	7	be (80MHz)	26	17	MCS5	18.24	20.22	320	Pass
	6145	39	be (80MHz)	26	0	MCS5	18.28	20.23	320	Pass
	6385	87	be (80MHz)	26	0	MCS5	18.36	20.37	320	Pass
	6025	15	be (160MHz)	26	36-H	MCS5	18.42	20.59	320	Pass
Band 6	6185	47	be (160MHz)	26	0-L	MCS5	18.46	20.67	320	Pass
	6345	79	be (160MHz)	26	0-L	MCS5	18.45	20.87	320	Pass
	6435	97	be (20MHz)	26	8	MCS5	18.37	20.23	320	Pass
	6475	105	be (20MHz)	26	8	MCS5	18.31	20.24	320	Pass
	6515	113	be (20MHz)	26	0	MCS5	18.46	20.13	320	Pass
	6445	99	be (40MHz)	26	8	MCS5	18.71	20.55	320	Pass
	6485	107	be (40MHz)	26	8	MCS5	18.73	20.55	320	Pass
	6525	115	be (40MHz)	26	8	MCS5	18.75	20.44	320	Pass
	6465	103	be (80MHz)	26	36	MCS5	18.30	20.46	320	Pass
	6505	111	be (160MHz)	26	36-L	MCS5	18.42	20.72	320	Pass
Band 7	6535	117	be (20MHz)	26	0	MCS5	18.47	20.30	320	Pass
	6695	149	be (20MHz)	26	0	MCS5	18.51	20.22	320	Pass
	6855	181	be (20MHz)	26	0	MCS5	18.45	20.32	320	Pass
	6565	123	be (40MHz)	26	8	MCS5	18.76	20.63	320	Pass
	6725	155	be (40MHz)	26	8	MCS5	18.72	20.58	320	Pass
	6845	179	be (40MHz)	26	8	MCS5	18.76	20.52	320	Pass
	6545	119	be (80MHz)	26	17	MCS5	18.42	20.17	320	Pass
	6705	151	be (80MHz)	26	36	MCS5	18.36	20.48	320	Pass
	6785	167	be (80MHz)	26	0	MCS5	18.33	20.35	320	Pass
	6665	143	be (160MHz)	26	36-L	MCS5	18.47	20.62	320	Pass

Table 7-2. Conducted Bandwidth Measurements Antenna WF7a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5935	1	be (20MHz)	106+26	82	MCS5	18.16	21.42	320	Pass
	6175	45	be (20MHz)	106+26	82	MCS5	18.17	21.21	320	Pass
	6415	93	be (20MHz)	106+26	82	MCS5	18.18	21.36	320	Pass
	5985	7	be (80MHz)	484+242	92	MCS5	78.02	82.79	320	Pass
	6145	39	be (80MHz)	484+242	92	MCS5	78.17	94.64	320	Pass
	6385	87	be (80MHz)	484+242	92	MCS5	78.30	99.93	320	Pass
	6025	15	be (160MHz)	996+484+242	98-L	MCS5	157.04	223.35	320	Pass
	6185	47	be (160MHz)	996+484+242	98-L	MCS5	157.58	285.26	320	Pass
	6345	79	be (160MHz)	996+484+242	96-L	MCS5	138.44	287.87	320	Pass
	6345	97	be (20MHz)	106+26	82	MCS5	18.16	21.59	320	Pass
Band 6	6475	105	be (20MHz)	106+26	82	MCS5	18.18	21.09	320	Pass
	6515	113	be (20MHz)	106+26	82	MCS5	18.17	21.01	320	Pass
	6465	103	be (80MHz)	484+242	91	MCS5	77.97	82.63	320	Pass
	6505	111	be (160MHz)	996+484+242	99-L	MCS5	157.39	224.56	320	Pass
	6535	117	be (20MHz)	106+26	82	MCS5	18.17	21.25	320	Pass
Band 7	6695	149	be (20MHz)	106+26	82	MCS5	18.16	21.24	320	Pass
	6875	181	be (20MHz)	106+26	82	MCS5	18.21	21.70	320	Pass
	6545	119	be (80MHz)	484+242	92	MCS5	78.08	87.44	320	Pass
	6705	151	be (80MHz)	484+242	91	MCS5	78.23	109.30	320	Pass
	6865	167	be (80MHz)	484+242	92.00	MCS5	78.16	96.02	320	Pass
	6665	143	be (160MHz)	996+484+242	96-L	MCS5	138.11	287.04	320	Pass

Table 7-3. Conducted Bandwidth Measurements Antenna WF7a (MRU)

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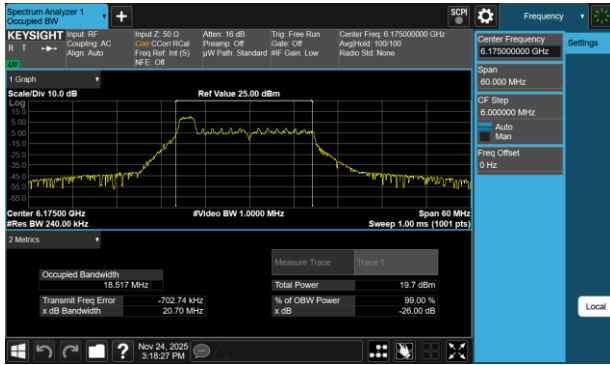
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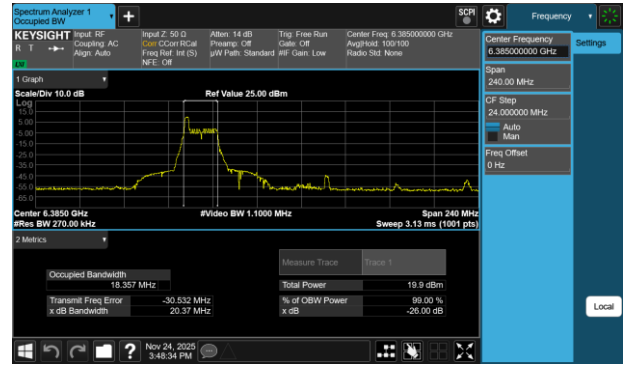
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Mbeimum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	242	61	MCS5	19.31	31.49	320	Pass
	6175	45	be (20MHz)	242	61	MCS5	19.32	31.59	320	Pass
	6415	93	be (20MHz)	242	61	MCS5	19.38	32.12	320	Pass
	5965	3	be (40MHz)	484	65	MCS5	38.64	62.33	320	Pass
	6165	43	be (40MHz)	484	65	MCS5	38.69	62.38	320	Pass
	6405	91	be (40MHz)	484	65	MCS5	38.74	62.72	320	Pass
	5985	7	be (80MHz)	996	67	MCS5	77.87	115.47	320	Pass
	6145	39	be (80MHz)	996	67	MCS5	77.98	110.43	320	Pass
	6385	87	be (80MHz)	996	67	MCS5	77.88	113.82	320	Pass
	6025	15	be (160MHz)	996x2	68	MCS5	156.47	176.53	320	Pass
Band 6	6185	47	be (160MHz)	996x2	68	MCS5	156.54	173.74	320	Pass
	6345	79	be (160MHz)	996x2	68	MCS5	156.69	173.15	320	Pass
	6435	97	be (20MHz)	242	61	MCS5	19.34	31.56	320	Pass
	6475	105	be (20MHz)	242	61	MCS5	19.32	30.28	320	Pass
	6515	113	be (20MHz)	242	61	MCS5	19.36	31.53	320	Pass
	6445	99	be (40MHz)	484	65	MCS5	38.57	61.01	320	Pass
	6485	107	be (40MHz)	484	65	MCS5	38.57	60.19	320	Pass
	6525	115	be (40MHz)	484	65	MCS5	38.57	64.23	320	Pass
	6465	103	be (80MHz)	996	67	MCS5	77.75	106.09	320	Pass
	6505	111	be (160MHz)	996x2	68	MCS5	156.68	168.96	320	Pass
Band 7	6535	117	be (20MHz)	242	61	MCS5	19.30	32.08	320	Pass
	6695	149	be (20MHz)	242	61	MCS5	19.38	32.31	320	Pass
	6855	181	be (20MHz)	242	61	MCS5	19.43	32.10	320	Pass
	6725	155	be (40MHz)	484	65	MCS5	38.51	63.38	320	Pass
	6845	179	be (40MHz)	484	65	MCS5	38.54	63.37	320	Pass
	6545	119	be (80MHz)	996	67	MCS5	77.79	98.97	320	Pass
	6705	151	be (80MHz)	996	67	MCS5	77.71	115.94	320	Pass
	6785	167	be (80MHz)	996	67	MCS5	77.78	115.17	320	Pass
	6665	143	be (160MHz)	996x2	68	MCS5	156.59	175.28	320	Pass

Table 7-4. Conducted Bandwidth Measurements Antenna WF7a (Fully – Loaded RU)

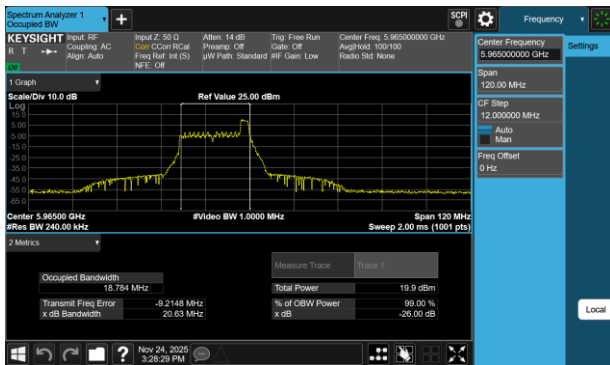
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 21 of 655



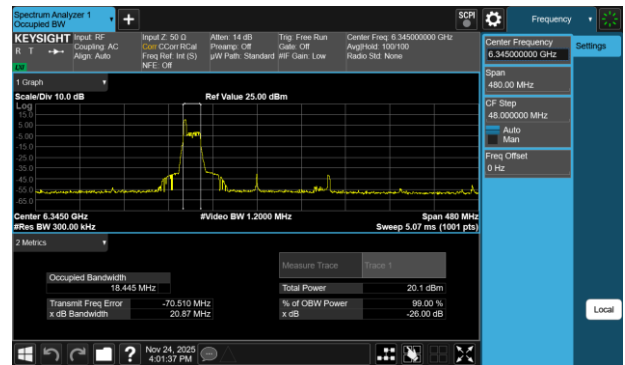
Plot 7-1 26dB BW & 99% OBW Antenna WF7a (20MHz BW 802.11be(RU) RU26 Index0 - Ch.45)



Plot 7-3 26dB BW & 99% OBW Antenna WF7a (80MHz BW 802.11be(RU) RU26 Index0 - Ch.87)

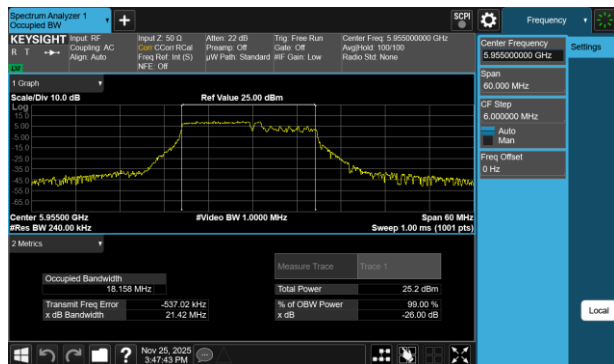


Plot 7-2 26dB BW & 99% OBW Antenna WF7a (40MHz BW 802.11be(RU) RU26 Index8 - Ch.3)

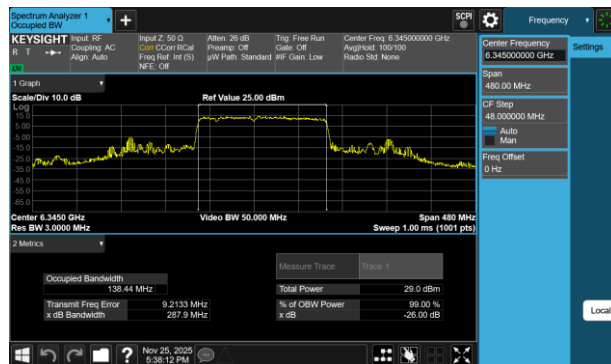


Plot 7-4 26dB BW & 99% OBW Antenna WF7a (160MHz BW 802.11be(RU) RU26 Index0 - Ch.79)

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-5 26dB BW & 99% OBW Antenna WF7a (20MHz BW 802.11be(RU) RU106+26 Index82 - Ch.1)

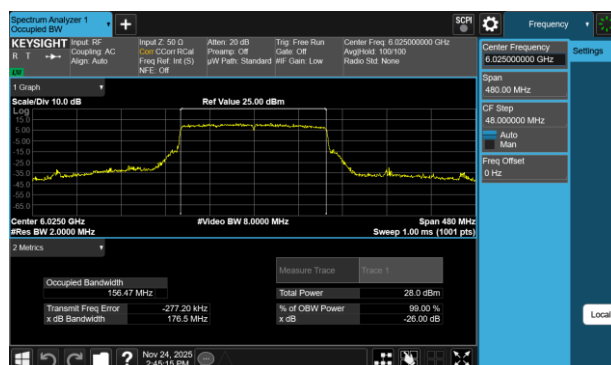
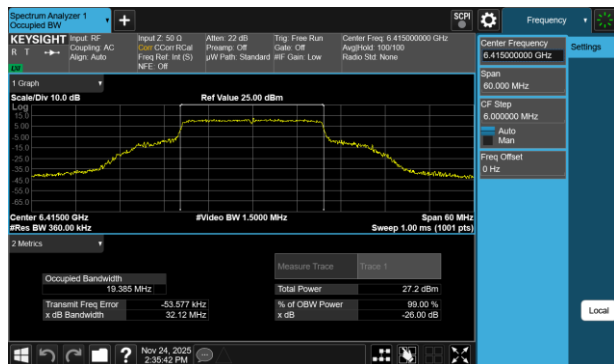


Plot 7-7 26dB BW & 99% OBW Antenna WF7a (160MHz BW 802.11be(RU) RU996+484+242 Index96 - Ch.79)

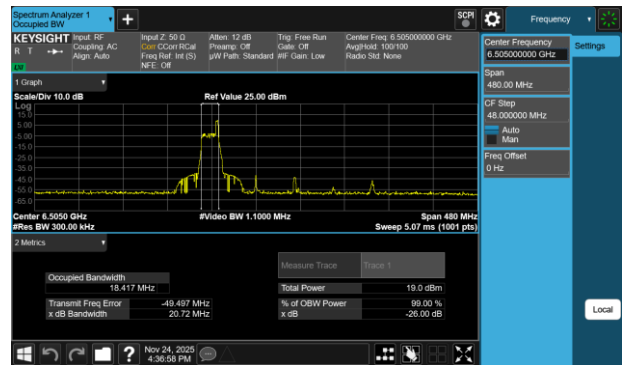
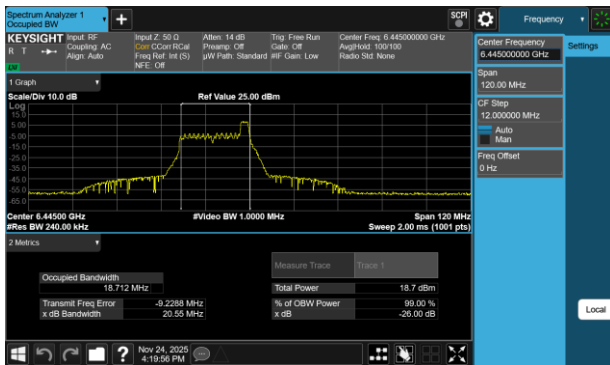
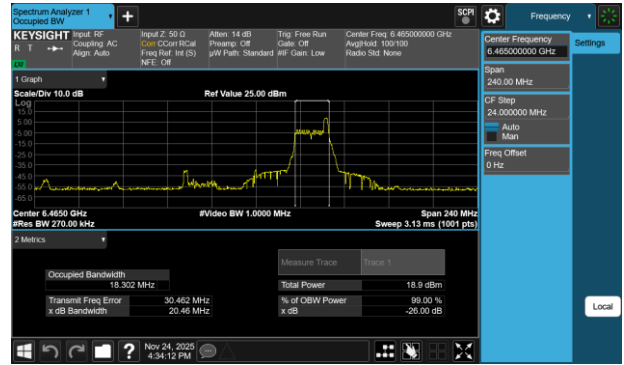
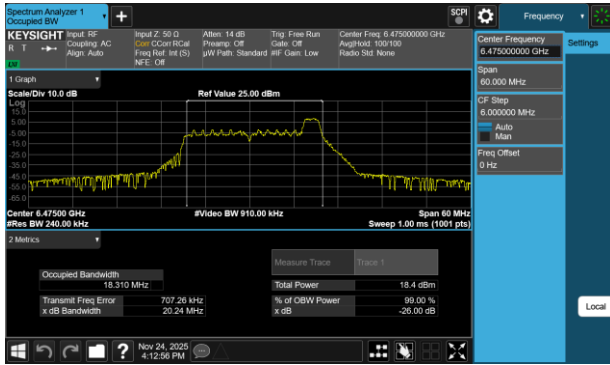


Plot 7-6 26dB BW & 99% OBW Antenna WF7a (80MHz BW 802.11be(RU) RU484+242 Index92 - Ch.87)

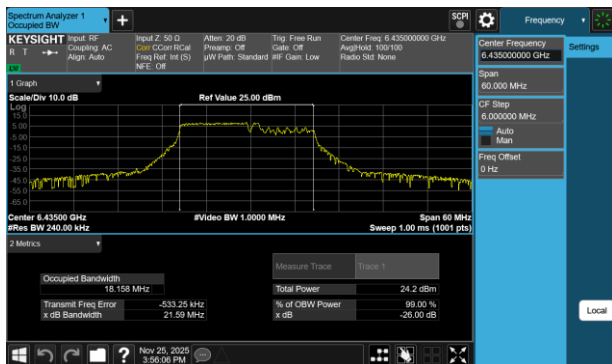
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Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 23 of 655



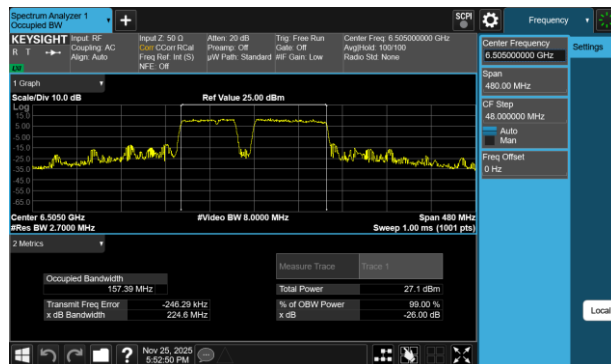
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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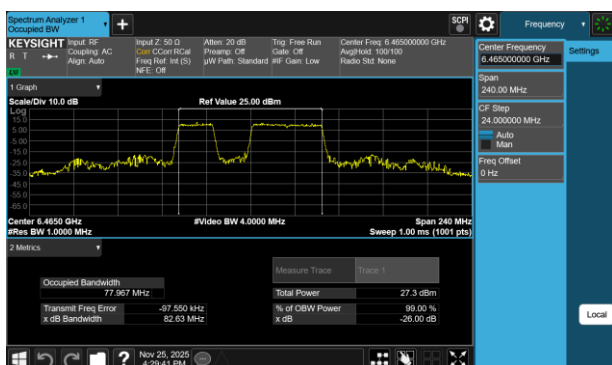
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-16 26dB BW & 99% OBW Antenna WF7a (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.97)



Plot 7-18 26dB BW & 99% OBW Antenna WF7a (160MHz BW
802.11be(RU) RU996+484+242 Index99 - Ch.111)



Plot 7-17 26dB BW & 99% OBW Antenna WF7a (80MHz BW
802.11be(RU) RU484+242 Index91 - Ch.103)

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The screenshot displays the Keysight Spectrum Analyzer 1 interface. The main plot shows a frequency spectrum with a prominent peak at 24.0 MHz. The plot is titled "Spectrum Analyzer 1 Occupied BW". The top status bar indicates the center frequency is 6.70500000 GHz, the span is 240.000 MHz, and the resolution bandwidth is 30.434 MHz. The plot shows a peak at 24.0 MHz with a power level of 16.8 dBm. The plot is titled "Spectrum Analyzer 1 Occupied BW". The top status bar indicates the center frequency is 6.70500000 GHz, the span is 240.000 MHz, and the resolution bandwidth is 30.434 MHz. The plot shows a peak at 24.0 MHz with a power level of 16.8 dBm.

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
Coupling AC
Amp. Auto
Align. Auto

Input Z: 50 Ω
Res. Corr: None
Freq Ref: Int (S)
NFE: Off

Atten: 12 dB
Preamp: Off
pW Plac: Standard
Ref: Gain Low

Center Freq: 6.565000000 GHz
ResBW: 100.100 MHz
Radio Std: None

Center Frequency
6.565000000 GHz

Span
120.0 MHz

CR: Span
12.000000 MHz

Filter
Auto
Median

Freq Offset
0 Hz

Scale/Div 10.0 dBm
Log

Ref Value 25.00 dBm

#Video BW 1.000 MHz

Span 120 MHz

Sweep 1.60 ms (1001 pts)

2 Millers

Occupied Bandwidth
18.762 MHz

Total Power
18.5 dBm

% of OBW Power
99.00 %

Transmit Freq Error
-8.1769 MHz

% dB Bandwidth
20.63 MHz

Measure Trace
Trace 1

Local

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF, Coupling: AC, Noise: Off, Filter: N, Span: 480 MHz, Res: 100 kHz, Freq Ref: Int (S), NFE: Off

Input Z: 50 Ω , Attenu: 14 dB, Trig: Free Run, Center Freq: 6.65500000 GHz
 Res: 100 kHz, Preset: Std, Gain: Off, Resolved: 100/100
 Freq Ref: Int (S), μ W Path: Standard, μ W Gain: Low, Radio Std: None

1 Graph
 Scale/Div: 10.0 dB, Log, Span: 480 MHz
 Center: 6.6550 GHz, μ W Span: 270.0 kHz
 Ref Value: 25.00 dBm, μ W Video BW: 1.1000 MHz
 Sweep: 6.20 ms (1001 pts)

2 Metrics

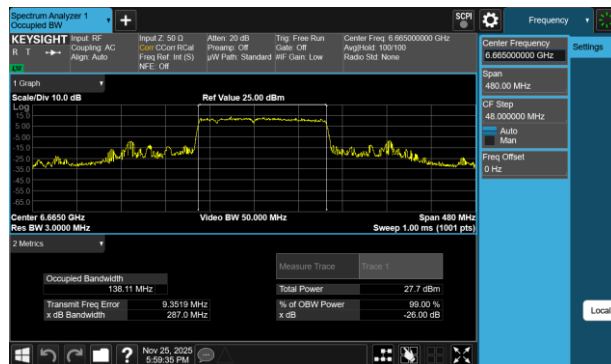
Occupied Bandwidth	Total Power
18.469 MHz	19.0 dBm
Transmit Freq Error	% of OBW Power
-49.501 MHz	99.00 %
% OBW Bandwidth	20.62 MHz
	-20.00 dB

Settings
 Span: 480 MHz
 CR Step: 45.000000 MHz
 Auto: Auto
 Freq Offset: 0 Hz

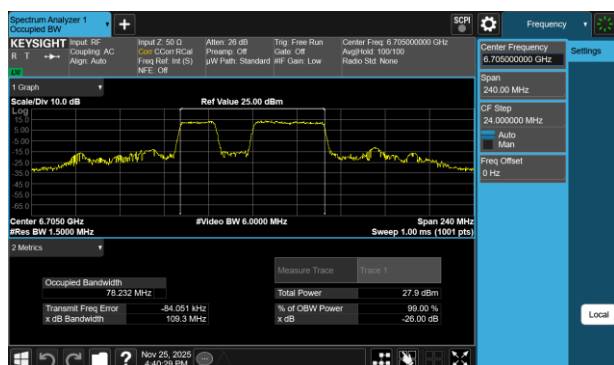
Windows taskbar: Nov 24, 2025 5:18:10 PM



Plot 7-27 26dB BW & 99% OBW Antenna WF7a (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.181)



Plot 7-29 26dB BW & 99% OBW Antenna WF7a (160MHz BW
802.11be(RU) RU996+484+242 Index96 - Ch.143)



Plot 7-28 26dB BW & 99% OBW Antenna WF7a (80MHz BW
802.11be(RU) RU484+242 Index91 - Ch.151)

FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 29 of 655

7.2.2 Antenna WF7a 26dB & 99% Bandwidth Measurements – LPI

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	26	0	MCS5	18.48	20.10	320	Pass
	6175	45	be (20MHz)	26	0	MCS5	18.47	20.49	320	Pass
	6415	93	be (20MHz)	26	0	MCS5	18.41	20.21	320	Pass
	5965	3	be (40MHz)	26	8	MCS5	18.72	20.49	320	Pass
	6165	43	be (40MHz)	26	8	MCS5	18.76	20.31	320	Pass
	6405	91	be (40MHz)	26	8	MCS5	18.78	20.45	320	Pass
	5985	7	be (80MHz)	26	17	MCS5	18.31	20.55	320	Pass
	6145	39	be (80MHz)	26	0	MCS5	18.31	20.50	320	Pass
	6385	87	be (80MHz)	26	36	MCS5	18.44	20.19	320	Pass
	6025	15	be (160MHz)	26	0-L	MCS5	18.54	20.95	320	Pass
Band 6	6185	47	be (160MHz)	26	0-L	MCS5	18.51	20.61	320	Pass
	6345	79	be (160MHz)	26	0-L	MCS5	18.49	20.90	320	Pass
	6435	97	be (20MHz)	26	0	MCS5	18.54	20.43	320	Pass
	6475	105	be (20MHz)	26	0	MCS5	18.45	20.15	320	Pass
	6515	113	be (20MHz)	26	0	MCS5	18.41	20.15	320	Pass
	6445	99	be (40MHz)	26	8	MCS5	18.82	20.66	320	Pass
	6485	107	be (40MHz)	26	0	MCS5	18.22	20.46	320	Pass
	6525	115	be (40MHz)	26	8	MCS5	18.81	20.71	320	Pass
	6465	103	be (80MHz)	26	36	MCS5	18.30	20.35	320	Pass
	6505	111	be (160MHz)	26	36-L	MCS5	18.37	20.79	320	Pass
Band 7	6535	117	be (20MHz)	26	8	MCS5	18.39	20.19	320	Pass
	6695	149	be (20MHz)	26	8	MCS5	18.35	20.34	320	Pass
	6875	185	be (20MHz)	26	0	MCS5	18.52	20.15	320	Pass
	6565	123	be (40MHz)	26	8	MCS5	18.75	20.53	320	Pass
	6725	155	be (40MHz)	26	8	MCS5	18.71	20.39	320	Pass
	6845	179	be (40MHz)	26	8	MCS5	18.77	20.34	320	Pass
	6545	119	be (80MHz)	26	36	MCS5	18.36	20.25	320	Pass
	6705	151	be (80MHz)	26	0	MCS5	18.37	20.71	320	Pass
	6865	183	be (80MHz)	26	0	MCS5	18.28	20.48	320	Pass
	6665	143	be (160MHz)	26	36-L	MCS5	18.37	20.71	320	Pass
Band 8	6825	175	be (160MHz)	26	36-L	MCS5	18.37	20.68	320	Pass
	6895	189	be (20MHz)	26	0	MCS5	18.49	20.38	320	Pass
	6995	209	be (20MHz)	26	8	MCS5	18.40	20.04	320	Pass
	7095	229	be (20MHz)	26	8	MCS5	18.34	20.34	320	Pass
	6885	187	be (40MHz)	26	8	MCS5	18.80	20.39	320	Pass
	7005	211	be (40MHz)	26	8	MCS5	18.79	20.48	320	Pass
	7085	227	be (40MHz)	26	8	MCS5	18.76	20.39	320	Pass
	6945	199	be (80MHz)	26	0	MCS5	18.25	20.39	320	Pass
	7025	215	be (80MHz)	26	0	MCS5	18.33	20.64	320	Pass
	6985	207	be (160MHz)	26	0-L	MCS5	18.32	20.70	320	Pass

Table 7-5. Conducted Bandwidth Measurements Antenna WF7a (RU26)

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 31 of 655

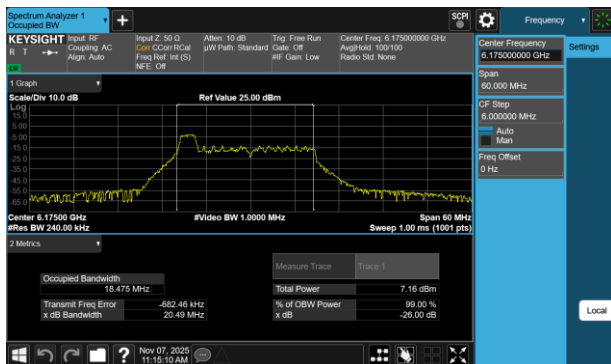
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	106+26	82	MCS5	18.16	21.09	320	Pass
	6175	45	be (20MHz)	106+26	82	MCS5	18.10	21.11	320	Pass
	6415	93	be (20MHz)	106+26	82	MCS5	18.19	21.39	320	Pass
	5985	7	be (80MHz)	484+242	92	MCS5	77.87	82.34	320	Pass
	6145	39	be (80MHz)	484+242	91	MCS5	77.95	82.61	320	Pass
	6385	87	be (80MHz)	484+242	92	MCS5	77.95	82.62	320	Pass
	6025	15	be (160MHz)	996+484+242	97-L	MCS5	156.55	164.62	320	Pass
Band 6	6185	47	be (160MHz)	996+484+242	97-L	MCS5	156.94	164.63	320	Pass
	6345	79	be (160MHz)	996+484+242	98-L	MCS5	157.08	165.21	320	Pass
	6435	97	be (20MHz)	106+26	82	MCS5	18.14	21.05	320	Pass
	6475	105	be (20MHz)	106+26	82	MCS5	18.20	21.75	320	Pass
	6515	113	be (20MHz)	106+26	82	MCS5	18.17	21.33	320	Pass
	6465	103	be (80MHz)	484+242	92	MCS5	77.97	82.48	320	Pass
	6505	111	be (160MHz)	996+484+242	98-L	MCS5	156.77	164.70	320	Pass
Band 7	6535	117	be (20MHz)	106+26	82	MCS5	18.18	20.93	320	Pass
	6695	149	be (20MHz)	106+26	82	MCS5	18.18	21.42	320	Pass
	6875	185	be (20MHz)	106+26	82	MCS5	18.17	21.32	320	Pass
	6545	119	be (80MHz)	484+242	91	MCS5	77.86	82.75	320	Pass
	6705	151	be (80MHz)	484+242	91	MCS5	77.87	82.58	320	Pass
	6865	183	be (80MHz)	484+242	92	MCS5	77.80	82.47	320	Pass
	6665	143	be (160MHz)	996+484+242	99-L	MCS5	156.84	164.73	320	Pass
Band 8	6825	175	be (160MHz)	996+484+242	99-L	MCS5	156.65	164.65	320	Pass
	6895	189	be (20MHz)	106+26	82	MCS5	18.16	21.36	320	Pass
	6995	209	be (20MHz)	106+26	82	MCS5	18.15	21.44	320	Pass
	7095	229	be (20MHz)	106+26	82	MCS5	18.18	21.25	320	Pass
	6945	199	be (80MHz)	484+242	91	MCS5	77.77	82.48	320	Pass
	7025	215	be (80MHz)	484+242	92	MCS5	77.85	82.45	320	Pass
	6985	207	be (160MHz)	996+484+242	97-L	MCS5	156.64	164.73	320	Pass

Table 7-6. Conducted Bandwidth Measurements Antenna WF7a (MRU)

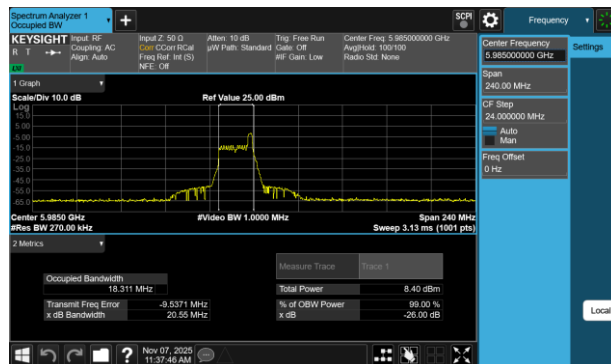
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	242	61	MCS5	19.38	31.60	320	Pass
	6175	45	be (20MHz)	242	61	MCS5	19.35	31.87	320	Pass
	6415	93	be (20MHz)	242	61	MCS5	19.35	31.55	320	Pass
	5965	3	be (40MHz)	484	65	MCS5	38.49	60.66	320	Pass
	6165	43	be (40MHz)	484	65	MCS5	38.55	62.83	320	Pass
	6405	91	be (40MHz)	484	65	MCS5	38.42	62.72	320	Pass
	5985	7	be (80MHz)	996	67	MCS5	77.82	110.61	320	Pass
	6145	39	be (80MHz)	996	67	MCS5	77.92	100.24	320	Pass
	6385	87	be (80MHz)	996	67	MCS5	77.80	112.60	320	Pass
	6025	15	be (160MHz)	996x2	68	MCS5	156.38	175.03	320	Pass
	6185	47	be (160MHz)	996x2	68	MCS5	156.69	172.21	320	Pass
	6345	79	be (160MHz)	996x2	68	MCS5	156.60	174.79	320	Pass
	6435	97	be (20MHz)	242	61	MCS5	19.35	31.50	320	Pass
	6475	105	be (20MHz)	242	61	MCS5	19.36	31.46	320	Pass
Band 6	6515	113	be (20MHz)	242	61	MCS5	19.42	31.83	320	Pass
	6445	99	be (40MHz)	484	65	MCS5	38.61	61.71	320	Pass
	6485	107	be (40MHz)	484	65	MCS5	38.69	62.71	320	Pass
	6525	115	be (40MHz)	484	65	MCS5	38.58	62.59	320	Pass
	6465	103	be (80MHz)	996	67	MCS5	77.67	102.80	320	Pass
	6505	111	be (160MHz)	996x2	68	MCS5	156.50	171.66	320	Pass
	6535	117	be (20MHz)	242	61	MCS5	19.36	31.59	320	Pass
Band 7	6695	149	be (20MHz)	242	61	MCS5	19.33	31.63	320	Pass
	6875	185	be (20MHz)	242	61	MCS5	19.35	31.57	320	Pass
	6725	155	be (40MHz)	484	65	MCS5	38.68	62.94	320	Pass
	6845	179	be (40MHz)	484	65	MCS5	38.72	62.13	320	Pass
	6545	119	be (80MHz)	996	67	MCS5	78.00	109.61	320	Pass
	6705	151	be (80MHz)	996	67	MCS5	77.76	106.22	320	Pass
	6865	183	be (80MHz)	996	67	MCS5	77.82	105.47	320	Pass
	6665	143	be (160MHz)	996x2	68	MCS5	156.67	171.58	320	Pass
	6825	175	be (160MHz)	996x2	68	MCS5	156.42	168.79	320	Pass
	6895	189	be (20MHz)	242	61	MCS5	19.37	31.58	320	Pass
Band 8	6995	209	be (20MHz)	242	61	MCS5	19.36	31.84	320	Pass
	7115	233	be (20MHz)	242	61	MCS5	19.37	32.07	320	Pass
	6885	187	be (40MHz)	484	65	MCS5	38.71	62.22	320	Pass
	7005	211	be (40MHz)	484	65	MCS5	38.54	62.34	320	Pass
	7085	227	be (40MHz)	484	65	MCS5	38.50	60.47	320	Pass
	6945	199	be (80MHz)	996	67	MCS5	77.77	99.88	320	Pass
	7025	215	be (80MHz)	996	67	MCS5	77.79	110.45	320	Pass
	6985	207	be (160MHz)	996x2	68	MCS5	156.55	170.75	320	Pass

Table 7-7. Conducted Bandwidth Measurements Antenna WF7a (Fully – Loaded RU)

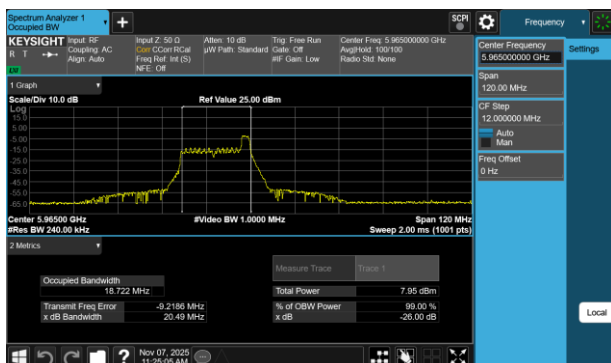
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 32 of 655



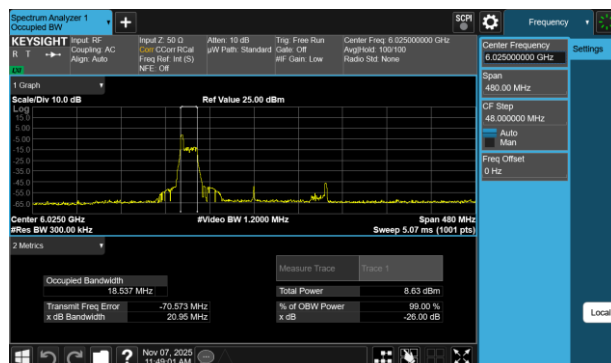
Plot 7-34 26dB BW & 99% OBW Antenna WF7a (20MHz BW
802.11be(RU) RU26 Index0 - Ch.45)



Plot 7-36 26dB BW & 99% OBW Antenna WF7a (80MHz BW
802.11be(RU) RU26 Index17 - Ch.7)



Plot 7-35 26dB BW & 99% OBW Antenna WF7a (40MHz BW
802.11be(RU) RU26 Index8 - Ch.3)

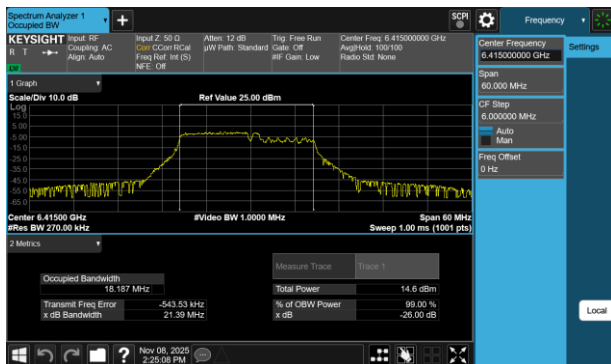


Plot 7-37 26dB BW & 99% OBW Antenna WF7a (160MHz BW
802.11be(RU) RU26 Index0 - Ch.15)

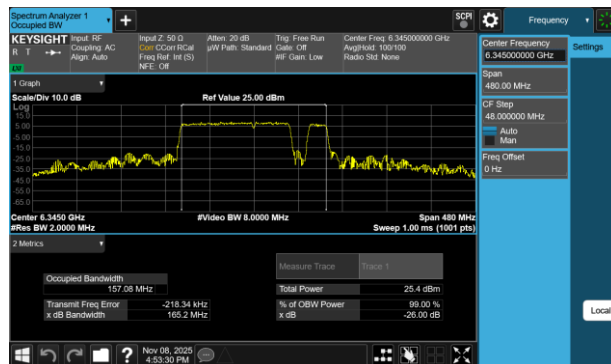
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG			Page 33 of 655

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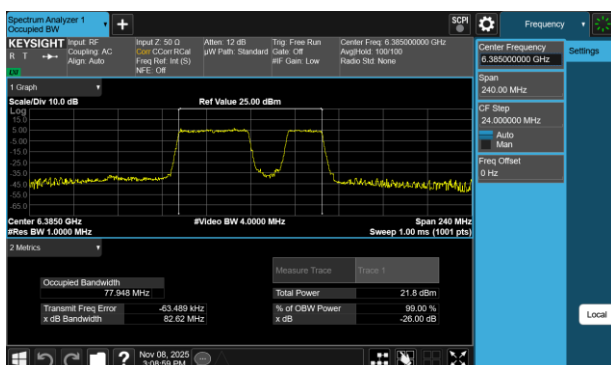
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Plot 7-38 26dB BW & 99% OBW Antenna WF7a (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.93)



Plot 7-40 26dB BW & 99% OBW Antenna WF7a (160MHz BW
802.11be(RU) RU996+484+242 Index98 - Ch.79)



Plot 7-39 26dB BW & 99% OBW Antenna WF7a (80MHz BW
802.11be(RU) RU484+242 Index92 - Ch.87)

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 34 of 655



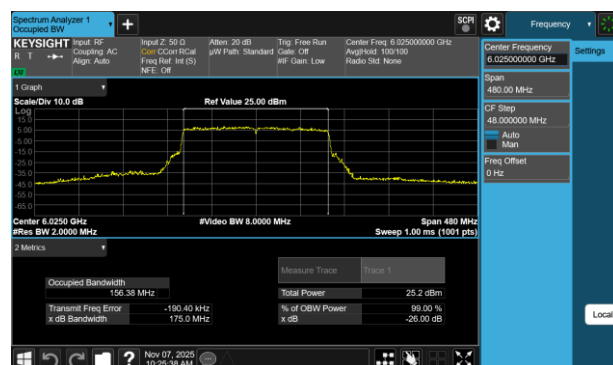
Plot 7-41 26dB BW & 99% OBW Antenna WF7a (20MHz BW
802.11be(RU) RU242 Index61 - Ch.45)



Plot 7-43 26dB BW & 99% OBW Antenna WF7a (80MHz BW
802.11be(RU) RU996 Index67 - Ch.87)



Plot 7-42 26dB BW & 99% OBW Antenna WF7a (40MHz BW
802.11be(RU) RU484 Index65 - Ch.43)

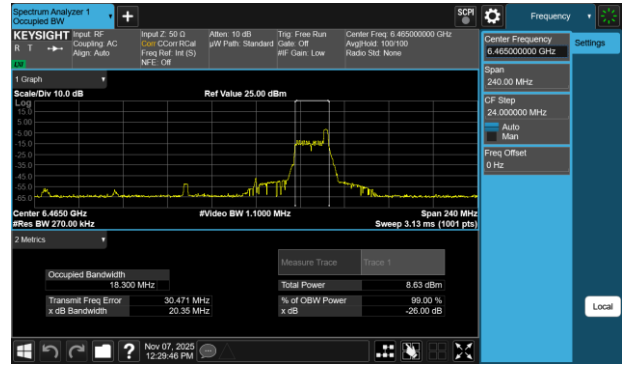


Plot 7-44 26dB BW & 99% OBW Antenna WF7a (160MHz BW
802.11be(RU) RU996X2 Index68 - Ch.15)

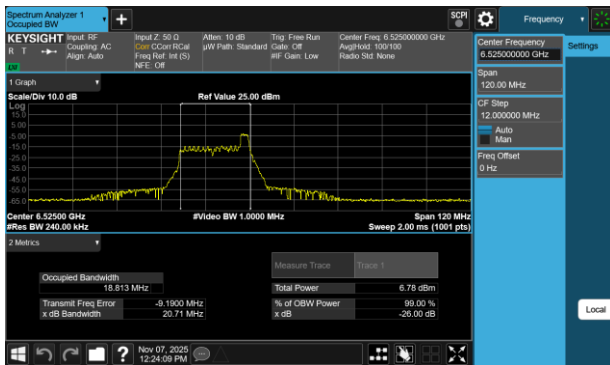
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 35 of 655



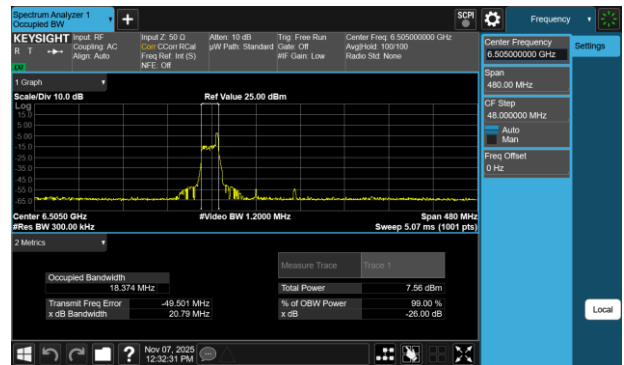
Plot 7-45 26dB BW & 99% OBW Antenna WF7a (20MHz BW 802.11be(RU) RU26 Index0 - Ch.97)



Plot 7-47 26dB BW & 99% OBW Antenna WF7a (80MHz BW 802.11be(RU) RU26 Index36 - Ch.103)



Plot 7-46 26dB BW & 99% OBW Antenna WF7a (40MHz BW 802.11be(RU) RU26 Index8 - Ch.115)

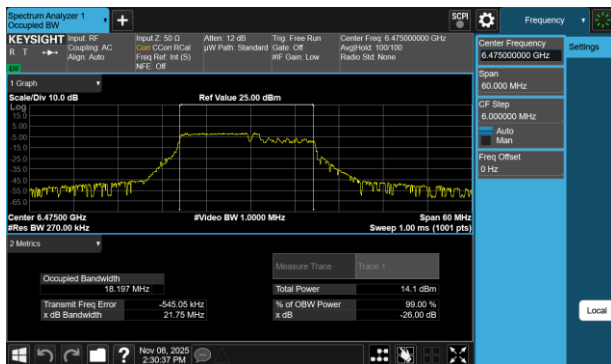


Plot 7-48 26dB BW & 99% OBW Antenna WF7a (160MHz BW 802.11be(RU) RU26 Index17 - Ch.111)

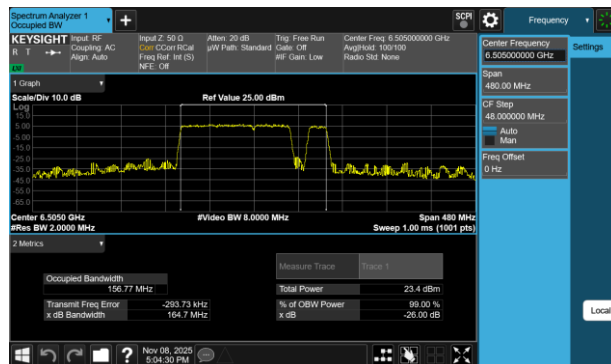
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 36 of 655

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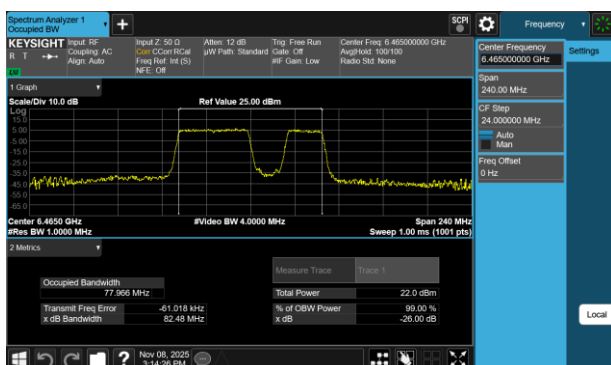
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Plot 7-49 26dB BW & 99% OBW Antenna WF7a (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.105)



Plot 7-51 26dB BW & 99% OBW Antenna WF7a (160MHz BW
802.11be(RU) RU996+484+242 Index98 - Ch.111)



Plot 7-50 26dB BW & 99% OBW Antenna WF7a (80MHz BW
802.11be(RU) RU484+242 Index92 - Ch.103)

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG			Page 37 of 655

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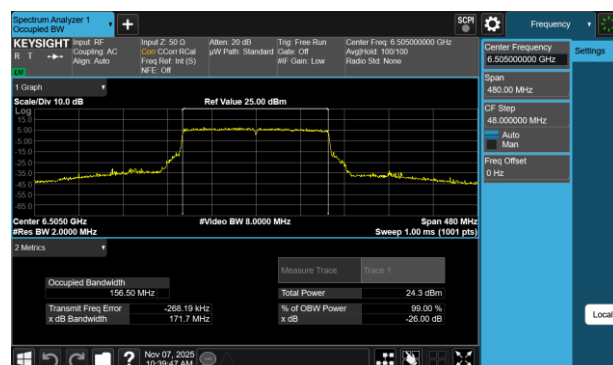
Plot 7-52 26dB BW & 99% OBW Antenna WF7a (20MHz BW
802.11be(RU) RU242 Index61 - Ch.113)



Plot 7-54 26dB BW & 99% OBW Antenna WF7a (80MHz BW
802.11be(RU) RU996 Index67 - Ch.103)

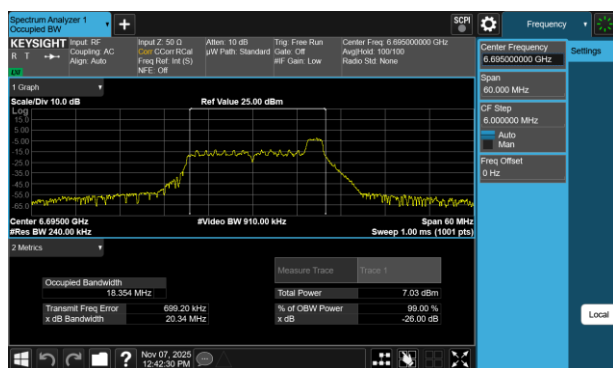


Plot 7-53 26dB BW & 99% OBW Antenna WF7a (40MHz BW
802.11be(RU) RU484 Index65 - Ch.107)

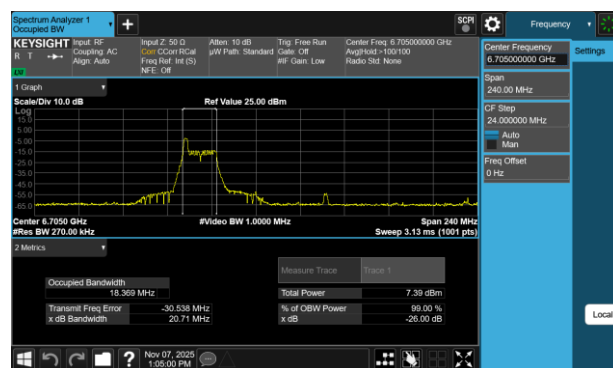


Plot 7-55 26dB BW & 99% OBW Antenna WF7a (160MHz BW
802.11be(RU) RU996X2 Index68 - Ch.111)

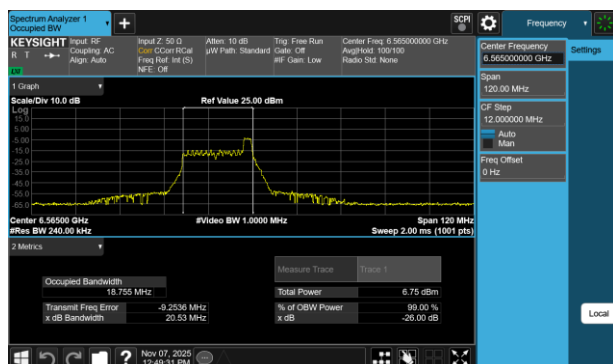
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Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 38 of 655



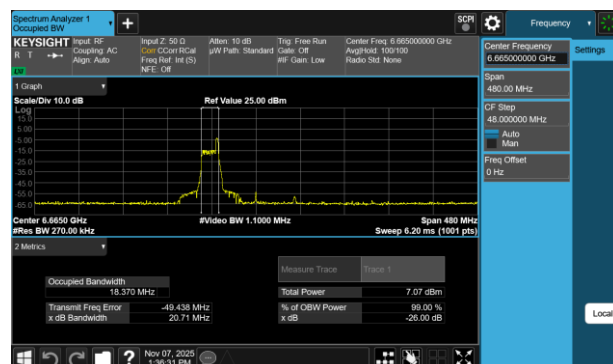
Plot 7-56 26dB BW & 99% OBW Antenna WF7a (20MHz BW 802.11be(RU) RU26 Index8 - Ch.149)



Plot 7-58 26dB BW & 99% OBW Antenna WF7a (80MHz BW 802.11be(RU) RU26 Index0 - Ch.151)

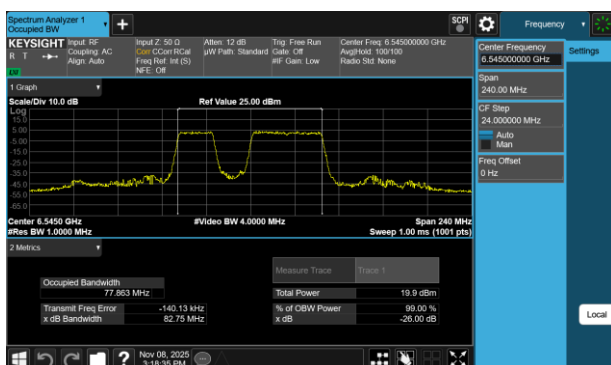
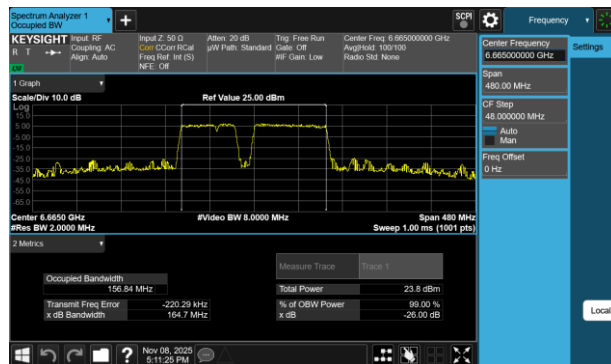
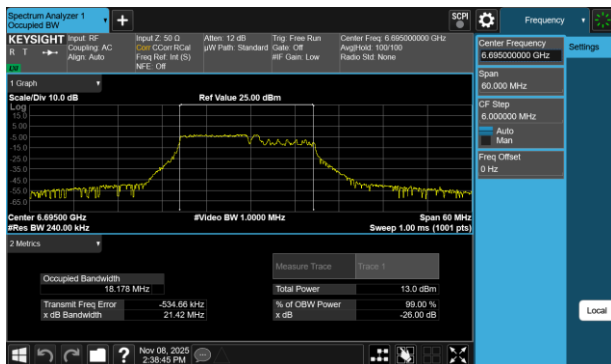


Plot 7-57 26dB BW & 99% OBW Antenna WF7a (40MHz BW 802.11be(RU) RU26 Index8 - Ch.123)

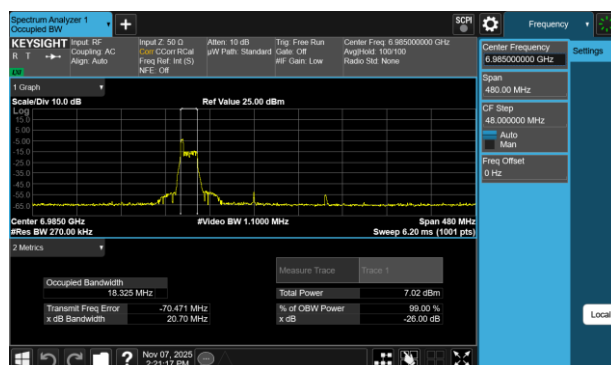
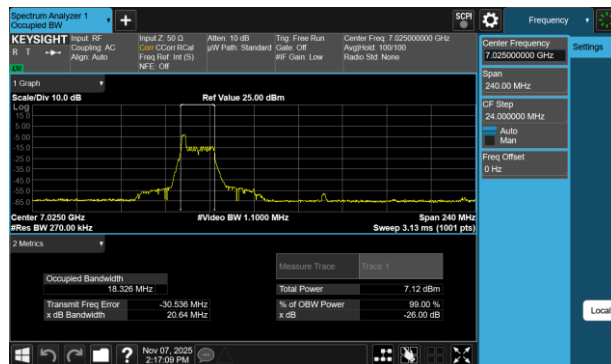
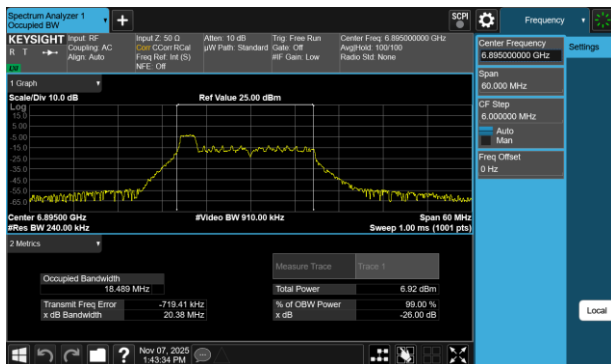


Plot 7-59 26dB BW & 99% OBW Antenna WF7a (160MHz BW 802.11be(RU) RU26 Index17 - Ch.143)

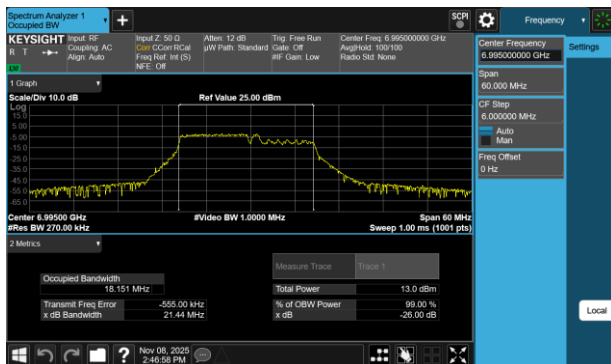
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 39 of 655



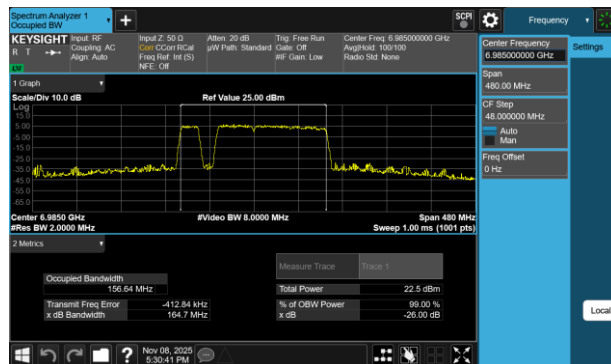
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 40 of 655



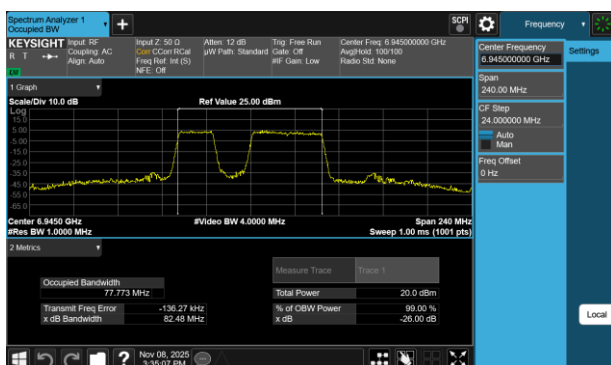
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 42 of 655



Plot 7-71 26dB BW & 99% OBW Antenna WF7a (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.209)

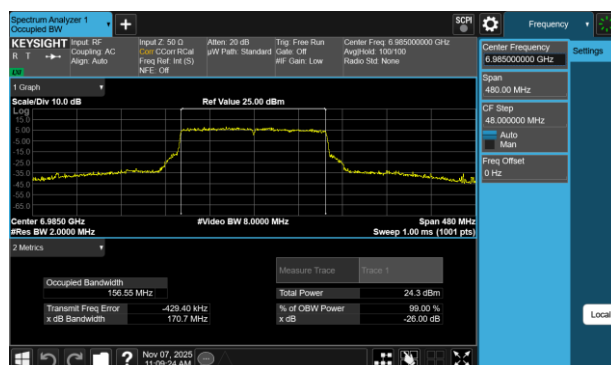
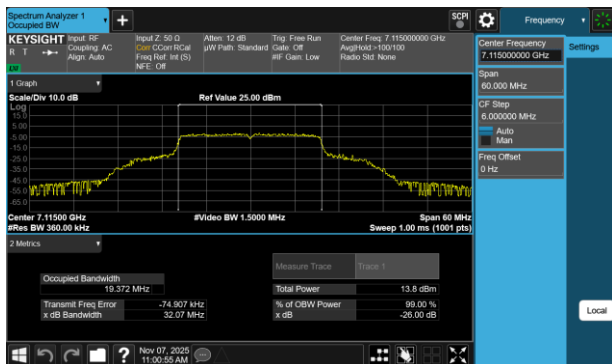


Plot 7-73 26dB BW & 99% OBW Antenna WF7a (160MHz BW
802.11be(RU) RU996+484+242 Index97 - Ch.207)



Plot 7-72 26dB BW & 99% OBW Antenna WF7a (80MHz BW
802.11be(RU) RU484+242 Index91 - Ch.199)

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 43 of 655



FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 44 of 655

7.2.3 Antenna WF2a 26dB & 99% Bandwidth Measurements – SP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	26	0	MCS5	18.44	20.13	320	Pass
	6175	45	be (20MHz)	26	0	MCS5	18.47	20.38	320	Pass
	6415	93	be (20MHz)	26	0	MCS5	18.49	20.05	320	Pass
	5965	3	be (40MHz)	26	8	MCS5	18.76	20.56	320	Pass
	6165	43	be (40MHz)	26	8	MCS5	18.79	20.44	320	Pass
	6405	91	be (40MHz)	26	8	MCS5	18.73	20.56	320	Pass
	5985	7	be (80MHz)	26	36	MCS5	18.35	20.40	320	Pass
	6145	39	be (80MHz)	26	0	MCS5	18.35	20.41	320	Pass
	6385	87	be (80MHz)	26	36	MCS5	18.28	20.35	320	Pass
	6025	15	be (160MHz)	26	0-L	MCS5	18.33	20.75	320	Pass
Band 6	6185	47	be (160MHz)	26	0-L	MCS5	18.45	21.01	320	Pass
	6345	79	be (160MHz)	26	36-H	MCS5	18.54	20.86	320	Pass
	6435	97	be (20MHz)	26	8	MCS5	18.41	20.24	320	Pass
	6475	105	be (20MHz)	26	0	MCS5	18.48	20.36	320	Pass
	6515	113	be (20MHz)	26	0	MCS5	18.51	20.15	320	Pass
	6445	99	be (40MHz)	26	8	MCS5	18.92	20.64	320	Pass
	6485	107	be (40MHz)	26	8	MCS5	18.77	20.60	320	Pass
	6525	115	be (40MHz)	26	8	MCS5	18.71	20.42	320	Pass
	6465	103	be (80MHz)	26	0	MCS5	18.29	20.25	320	Pass
	6505	111	be (160MHz)	26	0-L	MCS5	18.51	20.74	320	Pass
Band 7	6535	117	be (20MHz)	26	0	MCS5	18.47	20.23	320	Pass
	6695	149	be (20MHz)	26	8	MCS5	18.23	20.34	320	Pass
	6855	181	be (20MHz)	26	8	MCS5	18.44	20.33	320	Pass
	6565	123	be (40MHz)	26	8	MCS5	18.69	20.48	320	Pass
	6725	155	be (40MHz)	26	8	MCS5	18.78	20.58	320	Pass
	6845	179	be (40MHz)	26	8	MCS5	18.76	20.61	320	Pass
	6545	119	be (80MHz)	26	0	MCS5	18.43	20.40	320	Pass
	6705	151	be (80MHz)	26	0	MCS5	18.35	20.36	320	Pass
	6785	167	be (80MHz)	26	0	MCS5	18.30	20.49	320	Pass
	6665	143	be (160MHz)	26	0-L	MCS5	18.47	20.58	320	Pass

Table 7-8. Conducted Bandwidth Measurements Antenna WF2a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5935	1	be (20MHz)	106+26	82	MCS5	18.20	21.34	320	Pass
	6175	45	be (20MHz)	106+26	82	MCS5	18.19	21.14	320	Pass
	6415	93	be (20MHz)	106+26	82	MCS5	18.17	21.07	320	Pass
	5985	7	be (80MHz)	484+242	91	MCS5	77.87	82.62	320	Pass
	6145	39	be (80MHz)	484+242	91	MCS5	78.55	126.51	320	Pass
	6385	87	be (80MHz)	484+242	91	MCS5	78.06	82.76	320	Pass
	6025	15	be (160MHz)	996+484+242	96-L	MCS5	138.02	285.38	320	Pass
	6185	47	be (160MHz)	996+484+242	98-L	MCS5	157.18	224.40	320	Pass
	6345	79	be (160MHz)	996+484+242	96-L	MCS5	137.99	284.97	320	Pass
	6345	97	be (20MHz)	106+26	82	MCS5	18.18	21.29	320	Pass
Band 6	6475	105	be (20MHz)	106+26	82	MCS5	18.17	21.40	320	Pass
	6515	113	be (20MHz)	106+26	82	MCS5	18.17	21.24	320	Pass
	6465	103	be (80MHz)	484+242	92	MCS5	78.09	82.69	320	Pass
	6505	111	be (160MHz)	996+484+242	96-L	MCS5	138.63	286.87	320	Pass
	6535	117	be (20MHz)	106+26	82	MCS5	18.19	21.29	320	Pass
Band 7	6695	149	be (20MHz)	106+26	82	MCS5	18.20	21.23	320	Pass
	6875	181	be (20MHz)	106+26	82	MCS5	18.23	21.40	320	Pass
	6545	119	be (80MHz)	484+242	91	MCS5	77.91	82.57	320	Pass
	6705	151	be (80MHz)	484+242	92	MCS5	78.11	94.65	320	Pass
	6865	167	be (80MHz)	484+242	92	MCS5	78.12	94.92	320	Pass
	6665	143	be (160MHz)	996+484+242	96-L	MCS5	137.78	281.82	320	Pass

Table 7-9. Conducted Bandwidth Measurements Antenna WF2a (MRU)

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 45 of 655

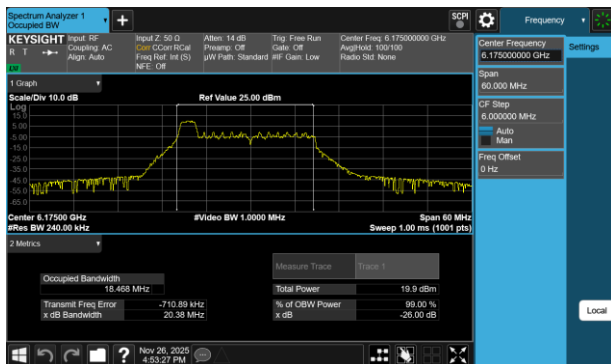
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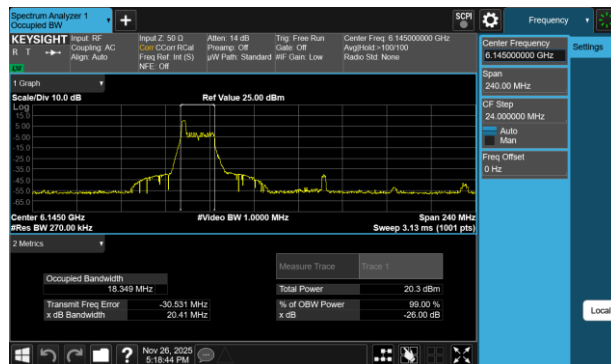
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Mbeimum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	242	61	MCS5	19.31	31.65	320	Pass
	6175	45	be (20MHz)	242	61	MCS5	19.37	31.91	320	Pass
	6415	93	be (20MHz)	242	61	MCS5	19.37	31.56	320	Pass
	5965	3	be (40MHz)	484	65	MCS5	38.64	61.93	320	Pass
	6165	43	be (40MHz)	484	65	MCS5	38.79	62.63	320	Pass
	6405	91	be (40MHz)	484	65	MCS5	38.70	62.69	320	Pass
	5985	7	be (80MHz)	996	67	MCS5	77.87	108.42	320	Pass
	6145	39	be (80MHz)	996	67	MCS5	77.79	114.85	320	Pass
	6385	87	be (80MHz)	996	67	MCS5	77.83	103.32	320	Pass
	6025	15	be (160MHz)	996x2	68	MCS5	156.30	171.63	320	Pass
Band 6	6185	47	be (160MHz)	996x2	68	MCS5	156.39	173.26	320	Pass
	6345	79	be (160MHz)	996x2	68	MCS5	156.66	176.39	320	Pass
	6435	97	be (20MHz)	242	61	MCS5	19.43	31.55	320	Pass
	6475	105	be (20MHz)	242	61	MCS5	19.39	31.52	320	Pass
	6515	113	be (20MHz)	242	61	MCS5	19.35	31.77	320	Pass
	6445	99	be (40MHz)	484	65	MCS5	38.53	61.24	320	Pass
	6485	107	be (40MHz)	484	65	MCS5	38.62	63.88	320	Pass
	6525	115	be (40MHz)	484	65	MCS5	38.74	63.01	320	Pass
	6465	103	be (80MHz)	996	67	MCS5	77.74	102.88	320	Pass
	6505	111	be (160MHz)	996x2	68	MCS5	156.52	180.55	320	Pass
Band 7	6535	117	be (20MHz)	242	61	MCS5	19.45	31.64	320	Pass
	6695	149	be (20MHz)	242	61	MCS5	19.37	31.60	320	Pass
	6855	181	be (20MHz)	242	61	MCS5	19.33	31.68	320	Pass
	6725	155	be (40MHz)	484	65	MCS5	38.72	63.11	320	Pass
	6845	179	be (40MHz)	484	65	MCS5	38.74	64.16	320	Pass
	6545	119	be (80MHz)	996	67	MCS5	77.78	107.06	320	Pass
	6705	151	be (80MHz)	996	67	MCS5	77.70	109.36	320	Pass
	6785	167	be (80MHz)	996	67	MCS5	77.89	112.42	320	Pass
	6665	143	be (160MHz)	996x2	68	MCS5	156.38	176.26	320	Pass

Table 7-10. Conducted Bandwidth Measurements Antenna WF2a (Fully – Loaded RU)

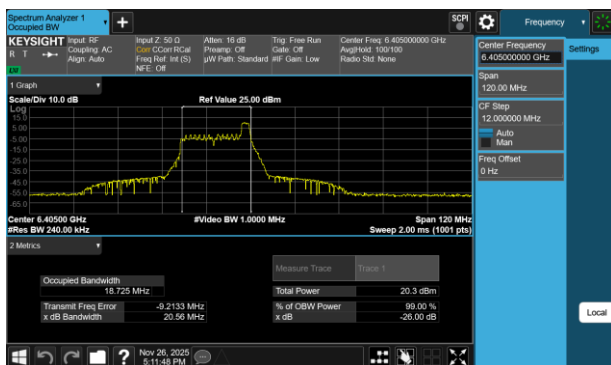
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG	Test Dates: 9/15/2025 - 12/10/2025	EUT Type: Tablet Device	Page 46 of 655



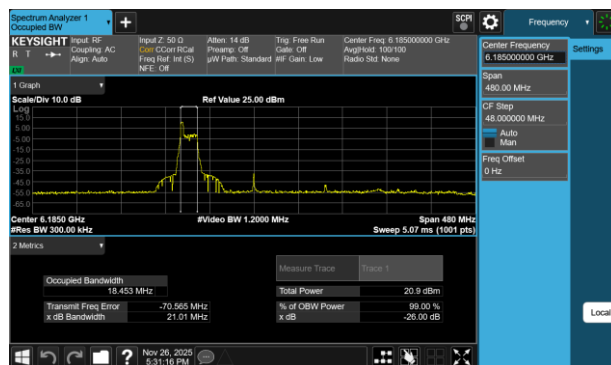
Plot 7-78 26dB BW & 99% OBW Antenna WF2a (20MHz BW 802.11be(RU) RU26 Index0 - Ch.45)



Plot 7-80 26dB BW & 99% OBW Antenna WF2a (80MHz BW 802.11be(RU) RU26 Index0 - Ch.39)



Plot 7-79 26dB BW & 99% OBW Antenna WF2a (40MHz BW 802.11be(RU) RU26 Index8 - Ch.91)

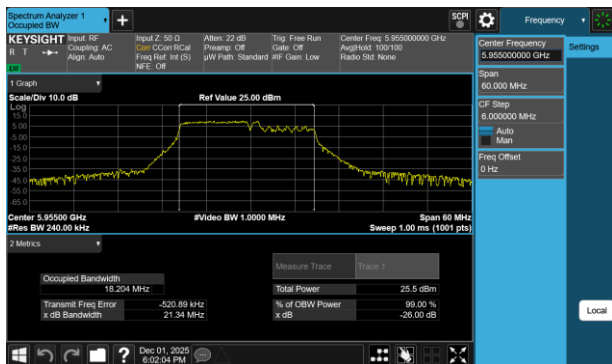


Plot 7-81 26dB BW & 99% OBW Antenna WF2a (160MHz BW 802.11be(RU) RU26 Index0 - Ch.47)

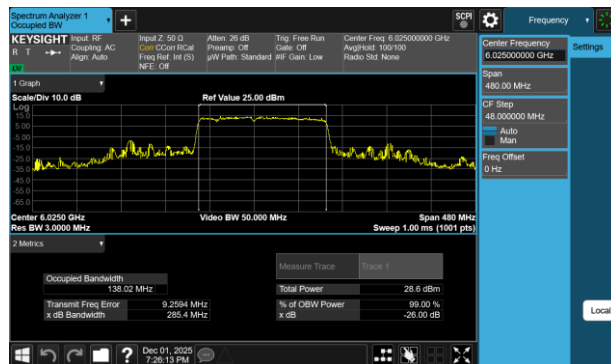
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-16-R1.BCG			Page 47 of 655

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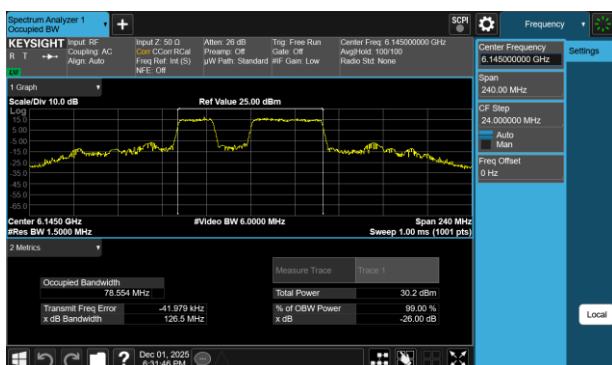
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Plot 7-82 26dB BW & 99% OBW Antenna WF2a (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.1)



Plot 7-84 26dB BW & 99% OBW Antenna WF2a (160MHz BW
802.11be(RU) RU996+484+242 Index96 - Ch.15)



Plot 7-83 26dB BW & 99% OBW Antenna WF2a (80MHz BW
802.11be(RU) RU484+242 Index91 - Ch.39)

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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