**MEASUREMENT REPORT****FCC PART 15.407 / ISSED RSS-247 UNII 5GHz 802.11a/n/ac/ax/be (OFDM)****Applicant Name:**

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

Date of Testing:

09/15/2025 - 11/14/2025

Test Report Issue Date:

1/15/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100079-13-R6.BCG

FCC ID:

BCGA3459

IC:

579C-A3459

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3459

EUT Type:

Tablet Device

Frequency Range:

5180 – 5825MHz

Modulation Type:

OFDM

FCC Classification:

Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-247 Issue 4

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

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: 1C2509100079-13-R6.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: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Revision Summary

Revision	Date	Comments	Revised By
-	12/2/2025	Initial Release	WKR007077
R1	12/5/2025	Addressed TCB Comments in sections 2.2, 2.3, 2.6, 7.2 to 7.7	WKR017014
R2	12/5/2025	Addressed TCB Comments in sections 2.2, 7.4, & 7.6	WKR017014
R3	12/8/2025	Addressed TCB Comments in sections 2.2, 7.2, and 7.5	WKR007077
R4	12/9/2025	Addressed TCB Comments minor formatting	WKR007077
R5	12/30/2025	Addressed TCB Comments regarding Section 7.6	WKR017014
R6	1/12/2026	Addressed TCB Comments regarding Section 7.2	WKR0000007358

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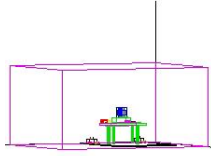
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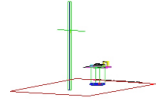
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MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				CDD/SDM	
				Antenna WF8		Antenna WF7a		Summed	
				Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	802.11a/n	5180 - 5240	111.686	20.48	110.917	20.45	133.660	21.26
2A		802.11a/n	5260 - 5320	111.429	20.47	110.154	20.42	132.130	21.21
2C		802.11a/n	5500 - 5720	111.173	20.46	111.944	20.49	129.420	21.12
3		802.11a/n	5745 - 5825	111.173	20.46	111.429	20.47	221.309	23.45
1	40	802.11n	5190 - 5230	104.232	20.18	77.804	18.91	165.196	22.18
2A		802.11n	5270 - 5310	109.901	20.41	104.954	20.21	193.197	22.86
2C		802.11n	5510 - 5710	109.901	20.41	108.393	20.35	196.789	22.94
3		802.11n	5755 - 5795	94.842	19.77	100.462	20.02	188.799	22.76
1	80	802.11ac	5210	24.491	13.89	23.605	13.73	30.903	14.90
2A		802.11ac	5290	35.892	15.55	31.046	14.92	41.020	16.13
2C		802.11ac	5530 - 5690	105.925	20.25	104.713	20.20	184.502	22.66
3		802.11ac	5775	61.518	17.89	64.714	18.11	101.625	20.07
1	20	802.11be (SU)	5180 - 5240	110.917	20.45	111.686	20.48	134.586	21.29
2A		802.11be (SU)	5260 - 5320	112.202	20.50	107.647	20.32	133.968	21.27
2C		802.11be (SU)	5500 - 5720	111.173	20.46	112.202	20.50	136.773	21.36
3		802.11be (SU)	5745 - 5825	109.901	20.41	109.901	20.41	217.771	23.38
1	40	802.11be (SU)	5190 - 5230	105.682	20.24	79.068	18.98	165.196	22.18
2A		802.11be (SU)	5270 - 5310	111.944	20.49	106.170	20.26	165.577	22.19
2C		802.11be (SU)	5510 - 5710	112.202	20.50	108.393	20.35	194.536	22.89
3		802.11be (SU)	5755 - 5795	96.161	19.83	101.625	20.07	191.867	22.83
1	80	802.11be (SU)	5210	21.979	13.42	20.184	13.05	29.992	14.77
2A		802.11be (SU)	5290	36.392	15.61	28.907	14.61	42.364	16.27
2C		802.11be (SU)	5530 - 5690	107.152	20.30	105.925	20.25	190.985	22.81
3		802.11be (SU)	5775	61.944	17.92	65.766	18.18	93.972	19.73
1	160	802.11ac	5250	19.454	12.89	18.836	12.75	27.353	14.37
2C		802.11ac	5570	16.982	12.30	19.724	12.95	26.792	14.28
1	160	802.11be (SU)	5250	19.231	12.84	18.923	12.77	27.102	14.33
2C		802.11be (SU)	5570	15.704	11.96	19.588	12.92	26.485	14.23

FCC EUT Overview

UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				CDD/SDM	
				Antenna WF8		Antenna WF7a		Summed	
				Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	802.11a/n	5180 - 5240	108.893	20.37	55.847	17.47	71.285	18.53
2A		802.11a/n	5260 - 5320	111.429	20.47	110.154	20.42	132.130	21.21
2C		802.11a/n	5500 - 5720	111.173	20.46	111.944	20.49	129.420	21.12
3		802.11a/n	5745 - 5825	111.173	20.46	111.429	20.47	221.309	23.45
1	40	802.11n	5190 - 5230	104.232	20.18	77.804	18.91	106.414	20.27
2A		802.11n	5270 - 5310	109.901	20.41	104.954	20.21	193.197	22.86
2C		802.11n	5510 - 5710	109.901	20.41	108.393	20.35	196.789	22.94
3		802.11n	5755 - 5795	94.842	19.77	100.462	20.02	188.799	22.76
1	80	802.11ac	5210	24.491	13.89	23.605	13.73	30.130	14.79
2A		802.11ac	5290	35.892	15.55	31.046	14.92	41.020	16.13
2C		802.11ac	5530 - 5690	105.925	20.25	104.713	20.20	184.502	22.66
3		802.11ac	5775	61.518	17.89	64.714	18.11	101.625	20.07
1	20	802.11ax (SU)	5180 - 5240	107.895	20.33	57.016	17.56	72.778	18.62
2A		802.11ax (SU)	5260 - 5320	112.202	20.50	107.647	20.32	133.968	21.27
2C		802.11ax (SU)	5500 - 5720	111.173	20.46	112.202	20.50	136.773	21.36
3		802.11ax (SU)	5745 - 5825	109.901	20.41	109.901	20.41	217.771	23.38
1	40	802.11ax (SU)	5190 - 5230	105.682	20.24	79.068	18.98	104.472	20.19
2A		802.11ax (SU)	5270 - 5310	111.944	20.49	106.170	20.26	165.577	22.19
2C		802.11ax (SU)	5510 - 5710	112.202	20.50	108.393	20.35	194.536	22.89
3		802.11ax (SU)	5755 - 5795	96.161	19.83	101.625	20.07	191.867	22.83
1	80	802.11ax (SU)	5210	21.979	13.42	20.184	13.05	29.444	14.69
2A		802.11ax (SU)	5290	36.392	15.61	28.907	14.61	42.364	16.27
2C		802.11ax (SU)	5530 - 5690	107.152	20.30	105.925	20.25	190.985	22.81
3		802.11ax (SU)	5775	61.944	17.92	65.766	18.18	93.972	19.73
1	160	802.11ac	5250	19.454	12.89	18.836	12.75	26.853	14.29
2C		802.11ac	5570	16.982	12.30	19.724	12.95	26.792	14.28
1	160	802.11ax (SU)	5250	19.231	12.84	18.923	12.77	27.102	14.33
2C		802.11ax (SU)	5570	15.704	11.96	19.588	12.92	26.546	14.24

ISED EUT Overview

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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 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 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: BCGA3459** and **IC: 579C-A3459**. The test data contained in this report pertains only to the emissions due to the EUT's UNII 802.11a/n/ac/ax/(SU)/be(SU) transmitter.

Test Device Serial No.: CX7R5JHX6F, DWDQW1HYFT, DLXHHP0001400013YL, DLXHHP0001500013YL

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.

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Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745
:	:	:	:	:	:	:	:
42	5210	56	5280	116	5580	157	5785
:	:	:	:	:	:	:	:
48	5240	64	5320	144	5720	165	5825

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

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755
:	:	:	:	:	:	:	:
46	5230	62	5310	110	5550	159	5795
				:	:		
				142	5710		

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

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775
				:	:		
				138	5690		

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

Band 1/2A		Band 2C	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
50	5250	114	5570

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

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Notes:

- 5GHz 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 B)2)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	Duty Cycle [%]					
	Antenna WF8		Antenna WF7a		CDD/SDM	
	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
a (Low Data Rate)	100.000	-	98.787	0.053	98.378	0.071
a (Mid Data Rate)	100.000	-	98.924	0.047	100.000	-
a (High Data Rate)	98.924	0.047	98.719	0.056	98.719	0.056
n (HT20) (Low Data Rate)	98.583	0.062	98.787	0.053	100.000	-
n (HT20) (Mid Data Rate)	98.469	0.067	100.000	-	100.000	-
n (HT20) (High Data Rate)	98.628	0.060	98.855	0.050	100.000	-
n (HT40) (Low Data Rate)	98.243	0.077	100.000	-	100.000	-
n (HT40) (Mid Data Rate)	98.560	0.063	98.311	0.074	98.560	0.063
n (HT40) (High Data Rate)	98.492	0.066	98.288	0.075	98.992	0.044
ac (VHT80) (Low Data Rate)	98.175	0.080	98.855	0.050	100.000	-
ac (VHT80) (Mid Data Rate)	98.924	0.047	98.992	0.044	98.514	0.065
ac (VHT80) (High Data Rate)	100.000	-	98.764	0.054	98.764	0.054
ac (VHT160) (Low Data Rate)	100.000	-	98.696	0.057	98.901	0.048
ac (VHT160) (Mid Data Rate)	98.628	0.060	98.175	0.080	98.401	0.070
ac (VHT160) (High Data Rate)	98.175	0.080	97.972	0.089	98.175	0.080
be(SU) (EHT20) (Low Data Rate)	98.651	0.059	98.651	0.059	98.992	0.044
be(SU) (EHT20) (Mid Data Rate)	98.288	0.075	98.288	0.075	100.000	0.000
be(SU) (EHT20) (High Data Rate)	98.992	0.044	100.000	-	98.492	0.066
be(SU) (EHT40) (Low Data Rate)	100.000	-	98.288	0.075	100.000	-
be(SU) (EHT40) (Mid Data Rate)	98.855	0.050	100.000	-	98.492	0.066
be(SU) (EHT40) (High Data Rate)	98.311	0.074	98.514	0.065	98.742	0.055
be(SU) (EHT80) (Low Data Rate)	98.424	0.069	98.787	0.053	98.220	0.078
be(SU) (EHT80) (Mid Data Rate)	98.992	0.044	98.288	0.075	98.288	0.075
be(SU) (EHT80) (High Data Rate)	97.926	0.091	100.000	0.000	97.904	0.092
be(SU) (EHT160) (Low Data Rate)	98.969	0.045	98.833	0.051	98.469	0.067
be(SU) (EHT160) (Mid Data Rate)	97.904	0.092	98.946	0.046	98.946	0.046
be(SU) (EHT160) (High Data Rate)	97.972	0.089	97.972	0.089	98.130	0.082

Table 2-4. Measured Duty Cycles

CDD/SDM = Antenna WF8 + Antenna WF7a

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

WiFi Configurations		SISO		CDD		SDM		STBC	
		Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a
5GHz	11a	✓	✓	✓	✓	✗	✗	✗	✗
	11n (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11be(SU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11n (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11be(SU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ac (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11be(SU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ac (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11be(SU) (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-5. 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

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

802.11a	MCS Index				Spatial Stream	OFDM (802.11n/802.11ac)				OFDM (802.11ac)				OFDM (802.11ax/be)											
						20MHz		40MHz		80MHz		160MHz		20MHz				40MHz				80MHz			
	HT	VHT	HE	EHT		0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs 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
6	0	0	0	0	1	8.5	7.2	13.5	15	29.3	32.5	58.5	65	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3
9	1	1	1	1	1	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
12	2	2	2	2	1	19.5	21.7	40.5	45	87.8	97.5	175.5	195	25.8	24.2	21.9	48.8	45.6	41.4	108.1	102.1	91.9	192.4	202.2	183.8
18	3	3	3	3	1	26	28.9	54	60	130	143	234	260	34.4	32.5	29.3	65	60.4	55	136.1	126.1	113.2	288.2	272.2	245
24	4	4	4	4	1	32.5	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
36	5	5	5	5	1	39	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
48	6	6	6	6	1	58.5	65	121.5	135	263.3	292.5	526.5	585	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3
54	7	7	7	7	1	65	72.2	135	150	292.5	325	585	650	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	8	1	-	-	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
-	-	9	9	9	1	-	-	180	200	390	433.3	780	866.7	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	10	1	-	-	-	-	-	-	-	-	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	11	1	-	-	-	-	-	-	-	-	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8
6	8	0	0	0	2	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
9	9	1	1	1	2	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
12	10	2	2	2	2	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
18	11	3	3	3	2	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
24	12	4	4	4	2	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175	432.4	408.3	367.5	864.7	816.7	735
36	13	5	5	5	2	104	115.6	216	240	468	520	936	1040	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980
48	14	6	6	6	2	130	130	243	270	526.5	585	1053	1170	154.9	146.3	131.6	309.7	292.5	263.5	648.5	612.5	551.3	1297.1	1225	1102.5
54	15	7	7	7	2	130	144.4	270	300	585	650	1170	1300	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225
-	-	8	8	8	2	173.3	173.3	324	360	702	780	1430	1560	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470
-	-	9	9	9	2	-	-	360	400	780	866.7	1560	1733.3	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.3	1633.3
-	-	10	10	10	2	-	-	-	-	-	-	-	-	258.1	243.8	219.4	516.8	487.5	438.7	1080.9	1020.8	918.8	2161.8	2041.7	1837.5
-	-	11	11	11	2	-	-	-	-	-	-	-	-	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7

Table 2-6. Supported Data Rates

4. 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 WF8	Config 1	✓	✗	✗	✗	✓	✗
Ant WF8	Config 2	✓	✗	✗	✗	✗	✓
Ant WF8	Config 3	✗	✓	✗	✗	✓	✗
Ant WF8	Config 4	✗	✓	✗	✗	✗	✓
Ant WF8	Config 5	✗	✗	✓	✓	✗	✗
Ant WF8	Config 6	✗	✗	✓	✗	✓	✗
Ant WF8	Config 7	✗	✗	✓	✗	✗	✓

Table 2-7. 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.

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2.3 Antenna Description

Following antenna gains provided by manufacturer were used for the testing.

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna WF8	Antenna WF7a
5.150 – 5.250	-0.2	2.9
5.250 – 5.350	0.9	2.8
5.470 – 5.725	5.0	2.2
5.725 – 5.850	5.3	2.5

Table 2-8. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: Model:	A2141 A2166	S/N: S/N:	C02H604EQ05D C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: Model:	A2795 A2305	S/N: S/N:	DWH80115BK826GV19 C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-9. 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 and KDB 789033 D02 v02r01. 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, and 7.5 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 was reported.

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

For AC line conducted and radiated test below 1GHz, following configuration were investigated and EUT powered by AC/DC was the worst case.

- 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.

802.11n HT20/40, 11ax/be(SU) HE20/40/80/160 and 11ac VHT80/160 2TX CDD/SDM mode test data provided in this report covers 802.11n HT20/40, 11ax/be(SU) HE20/40/80/160 and 802.11ac VHT80/160 2TX STBC mode

802.11ac VHT20 and VHT40 mode are different from 802.11n HT20 and HT40 only in control messages and have the same power settings.

The data rates have been categorized into three groups: low, middle, and high data rates (see Table 2-6). All three groups have been investigated, and only the worst-case data rate has been reported.

For 802.11ax/be (OFDMA) test result, see separate UNII 802.11ax/be (OFDMA) report, 1C2509100079-14-R7.BCG.

All possible simultaneous transmission configurations have been investigated and the worst case config has been reported.

Description	Bluetooth	UNII
Antenna	Antenna WF8	Antenna WF8
Channel	78	36
Operating Frequency (MHz)	2480	5180
Mode/Modulation	GFSK ePA	802.11n

Table 2-10. Worst Case Simultaneous Transmission Configuration

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 7.8. 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)	4.42
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
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
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	-
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY57212015
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	5/13/2025	Annual	5/13/2026	101867
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
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	7/17/2025	Annual	7/17/2026	00302

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: BCGA3459
 IC: 579C-A3459
 FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407	RSS-Gen [6.7]	26dB Bandwidth	N/A	CONDUCTED	N/A	Section 7.2
15.407(e)	RSS-247 [7.3.4.2]	6dB Bandwidth	>500kHz(5725-5850MHz)		PASS	Section 7.3
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2, Section 7.3
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [7.3])		PASS	Section 7.4
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [7.3])		PASS	Section 7.5
15.407(h)	RSS-247 [7.3.6]	Dynamic Frequency Selection	See DFS Test Report	RADIATED	PASS	See DFS Test Report (1C25091000 79-12.BCG)
15.407(b.1), (2), (3), (4)	RSS-247 [7.3.1.3], [7.3.2.3], [7.3.3.3], [7.3.4.4]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [7.3])		PASS	Section 7.6
15.205, 15.407(b.1), (2), (3), (4)	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 7.6, 7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	LINE CONDUCTED	PASS	Section 7.8

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.

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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.

The 26dB bandwidth is used to determine the conducted power limits.

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.

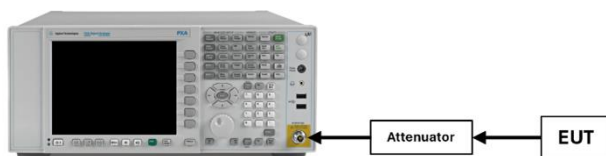


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels (low, mid, and high) were investigated, and tabular data provided. Only worst-case plots for each bandwidth are reported.

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.1 Antenna WF8 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	a	18Mbps	17.89	22.58
	5200	40	a	18Mbps	17.89	22.44
	5240	48	a	18Mbps	17.87	22.67
	5180	36	n (20MHz)	MCS3	17.85	22.00
	5200	40	n (20MHz)	MCS3	17.85	22.19
	5240	48	n (20MHz)	MCS3	17.85	22.02
	5180	36	be (SU) (20MHz)	MCS3	19.04	22.11
	5200	40	be (SU) (20MHz)	MCS3	19.05	22.75
	5240	48	be (SU) (20MHz)	MCS3	19.11	22.63
	5190	38	n (40MHz)	MCS3	36.64	44.67
	5230	46	n (40MHz)	MCS3	36.71	43.91
	5190	38	be (SU) (40MHz)	MCS3	38.08	44.37
	5230	46	be (SU) (40MHz)	MCS3	38.05	44.43
	5210	42	ac (80MHz)	MCS3	76.01	81.28
Band 1/2	5210	42	be (SU) (80MHz)	MCS3	77.54	82.36
	5250	50	ac (160MHz)	MCS0	154.88	167.80
	5250	50	be (SU) (160MHz)	MCS3	156.55	164.39
Band 2A	5260	52	a	18Mbps	17.87	22.42
	5300	60	a	18Mbps	17.90	22.52
	5320	64	a	18Mbps	17.88	22.52
	5260	52	n (20MHz)	MCS3	17.86	22.18
	5300	60	n (20MHz)	MCS3	17.87	21.95
	5320	64	n (20MHz)	MCS3	17.87	22.23
	5260	52	be (SU) (20MHz)	MCS3	19.04	22.41
	5300	60	be (SU) (20MHz)	MCS3	19.06	22.51
	5320	64	be (SU) (20MHz)	MCS3	19.02	22.37
	5270	54	n (40MHz)	MCS3	36.72	43.02
	5310	62	n (40MHz)	MCS3	36.60	43.96
	5270	54	be (SU) (40MHz)	MCS3	38.15	44.76
	5310	62	be (SU) (40MHz)	MCS3	38.04	44.55
	5290	58	ac (80MHz)	MCS3	75.95	81.27
Band 2C	5290	58	be (SU) (80MHz)	MCS3	77.52	82.41
	5500	100	a	18Mbps	17.88	22.36
	5580	116	a	18Mbps	17.88	22.40
	5720	144	a	18Mbps	17.89	22.42
	5500	100	n (20MHz)	MCS3	17.84	21.79
	5580	116	n (20MHz)	MCS3	17.88	22.22
	5720	144	n (20MHz)	MCS3	17.88	22.48
	5500	100	be (SU) (20MHz)	MCS3	19.06	22.12
	5580	116	be (SU) (20MHz)	MCS3	19.04	22.63
	5720	144	be (SU) (20MHz)	MCS3	19.05	22.31
	5510	102	n (40MHz)	MCS3	36.65	43.96
	5550	110	n (40MHz)	MCS3	36.64	43.75
	5710	142	n (40MHz)	MCS3	36.62	43.40
	5510	102	be (SU) (40MHz)	MCS3	38.04	44.54
	5550	110	be (SU) (40MHz)	MCS3	38.08	43.95
	5710	142	be (SU) (40MHz)	MCS3	38.06	43.81
	5530	106	ac (80MHz)	MCS3	75.92	81.31
	5610	122	ac (80MHz)	MCS3	75.94	81.44
	5690	138	ac (80MHz)	MCS3	75.93	81.25
	5530	106	be (SU) (80MHz)	MCS3	77.49	82.40
	5610	122	be (SU) (80MHz)	MCS3	77.56	82.32
	5690	138	be (SU) (80MHz)	MCS3	77.56	82.61
	5570	114	ac (160MHz)	MCS0	155.07	166.40
	5570	114	be (SU) (160MHz)	MCS3	156.56	164.77

Table 7-2. Conducted Bandwidth Measurements Antenna WF8

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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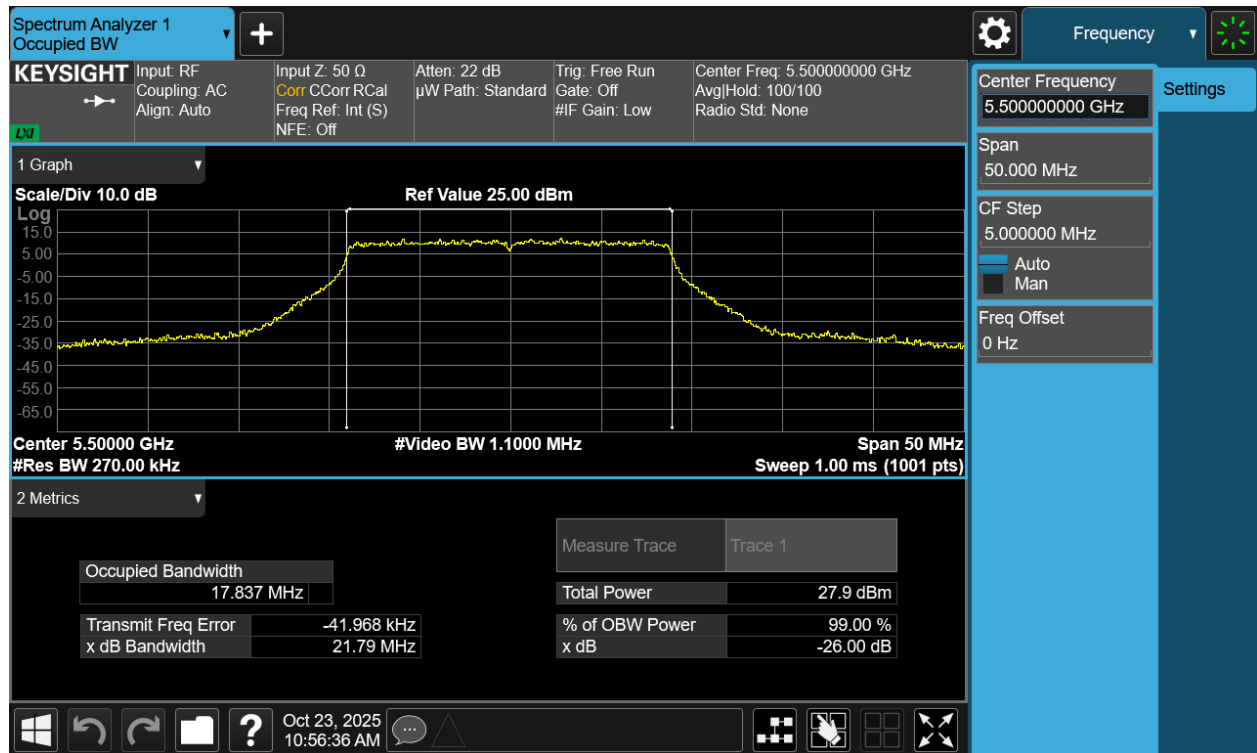
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	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	a	18Mbps	18.40
	5785	157	a	36Mbps	18.43
	5825	165	a	MCS5	18.40
	5745	149	n (20MHz)	MCS5	18.43
	5785	157	n (20MHz)	MCS3	18.33
	5825	165	n (20MHz)	MCS5	19.28
	5745	149	be (SU) (20MHz)	MCS3	19.26
	5785	157	be (SU) (20MHz)	MCS3	19.32
	5825	165	be (SU) (20MHz)	MCS3	19.33
	5755	151	n (40MHz)	MCS0	37.71
	5795	159	n (40MHz)	MCS5	38.76
	5755	151	be (SU) (40MHz)	MCS3	38.67
	5795	159	be (SU) (40MHz)	MCS0	38.74
	5775	155	ac (80MHz)	MCS3	76.32
	5775	155	be (SU) (80MHz)	MCS3	78.03

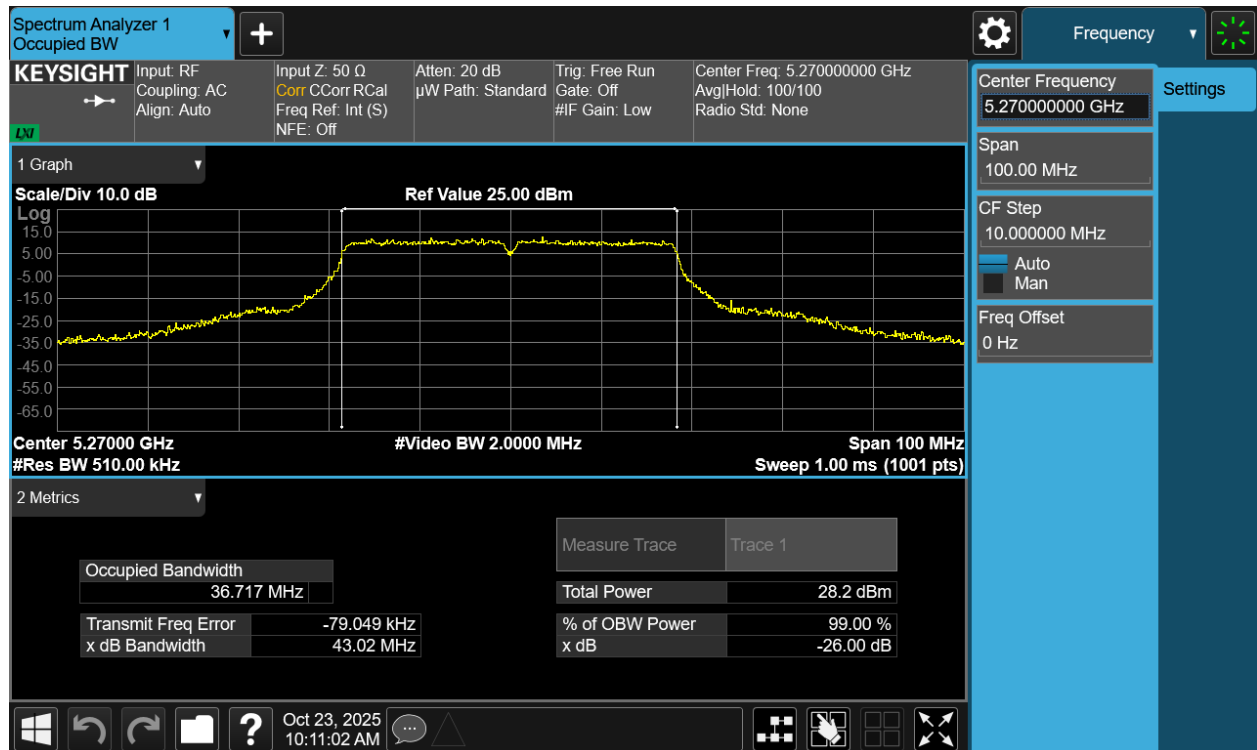
Table 7-3. Conducted Bandwidth Measurements UNII3 Antenna WF8

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1 26dB BW & 99% OBW Antenna WF8 (20MHz BW 802.11n - Ch.100)

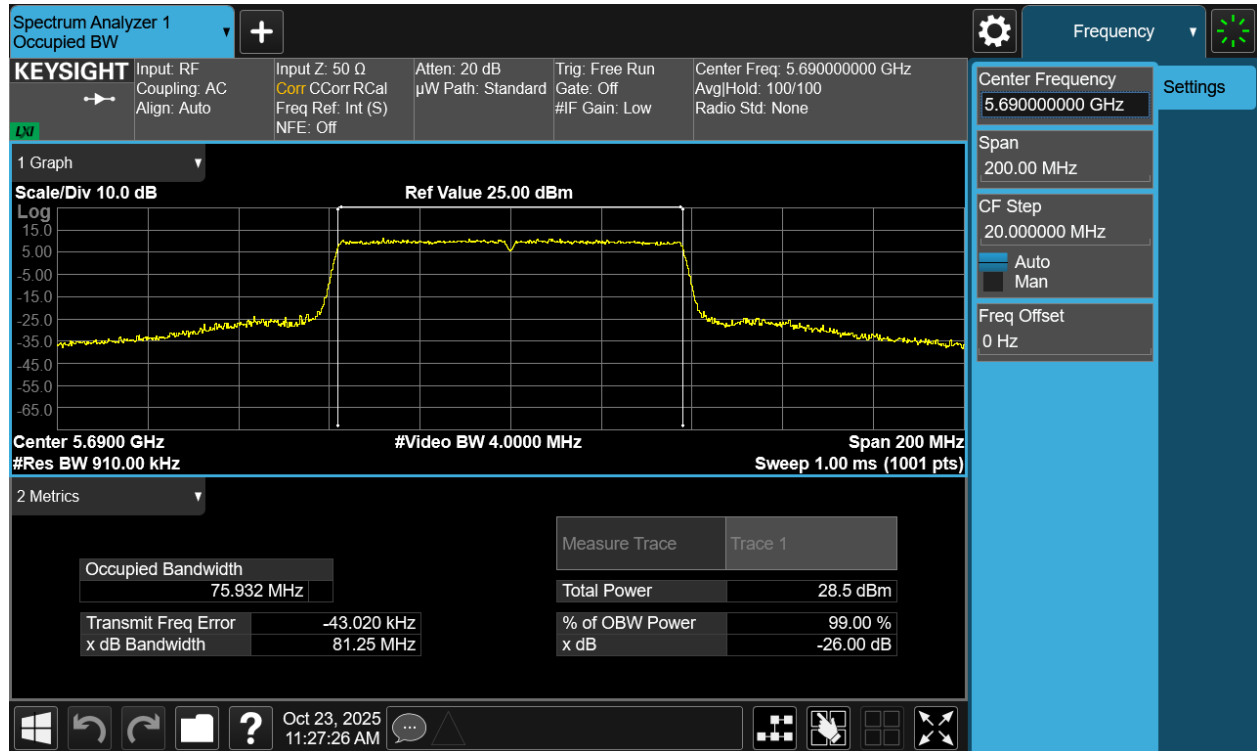


Plot 7-2 26dB BW & 99% OBW Antenna WF8 (40MHz BW 802.11n - Ch.54)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-3 26dB BW & 99% OBW Antenna WF8 (80MHz BW 802.11ac - Ch.138)



Plot 7-4 26dB BW & 99% OBW Antenna WF8 (160MHz BW 802.11be(SU) - Ch.50)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.2 Antenna WF7a 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	a	18Mbps	17.87	22.49
	5200	40	a	18Mbps	17.89	22.72
	5240	48	a	18Mbps	17.87	22.90
	5180	36	n (20MHz)	MCS3	17.86	22.37
	5200	40	n (20MHz)	MCS3	17.88	22.34
	5240	48	n (20MHz)	MCS3	17.85	21.70
	5180	36	be (SU) (20MHz)	MCS3	19.02	22.69
	5200	40	be (SU) (20MHz)	MCS3	19.04	22.30
	5240	48	be (SU) (20MHz)	MCS3	19.06	22.79
	5190	38	n (40MHz)	MCS3	36.64	43.50
	5230	46	n (40MHz)	MCS3	36.65	44.08
	5190	38	be (SU) (40MHz)	MCS3	38.04	44.59
	5230	46	be (SU) (40MHz)	MCS3	38.05	44.46
	5210	42	ac (80MHz)	MCS3	76.02	81.42
	5210	42	be (SU) (80MHz)	MCS3	77.51	82.39
Band 1/2	5250	50	ac (160MHz)	MCS3	154.95	166.93
	5250	50	be (SU) (160MHz)	MCS3	156.43	164.69
Band 2A	5260	52	a	18Mbps	17.90	22.67
	5300	60	a	18Mbps	17.88	22.46
	5320	64	a	18Mbps	17.89	22.72
	5260	52	n (20MHz)	MCS3	17.86	21.56
	5300	60	n (20MHz)	MCS3	17.87	21.80
	5320	64	n (20MHz)	MCS3	17.86	21.87
	5260	52	be (SU) (20MHz)	MCS3	19.03	22.52
	5300	60	be (SU) (20MHz)	MCS3	19.04	22.53
	5320	64	be (SU) (20MHz)	MCS3	19.05	22.56
	5270	54	n (40MHz)	MCS3	36.68	43.66
	5310	62	n (40MHz)	MCS3	36.69	43.80
	5270	54	be (SU) (40MHz)	MCS3	38.09	44.17
	5310	62	be (SU) (40MHz)	MCS3	38.02	44.01
	5290	58	ac (80MHz)	MCS3	75.99	81.17
	5290	58	be (SU) (80MHz)	MCS0	77.81	82.48
Band 2C	5500	100	a	18Mbps	17.90	22.77
	5580	116	a	18Mbps	17.90	22.62
	5720	144	a	18Mbps	17.87	22.70
	5500	100	n (20MHz)	MCS3	17.83	22.03
	5580	116	n (20MHz)	MCS3	17.86	21.82
	5720	144	n (20MHz)	MCS3	17.86	22.35
	5500	100	be (SU) (20MHz)	MCS3	19.04	22.52
	5580	116	be (SU) (20MHz)	MCS3	19.06	22.10
	5720	144	be (SU) (20MHz)	MCS3	19.05	22.91
	5510	102	n (40MHz)	MCS3	36.64	43.96
	5550	110	n (40MHz)	MCS3	36.62	44.02
	5710	142	n (40MHz)	MCS3	36.63	43.84
	5510	102	be (SU) (40MHz)	MCS3	38.09	43.92
	5550	110	be (SU) (40MHz)	MCS3	38.09	44.75
	5710	142	be (SU) (40MHz)	MCS3	38.05	44.52
	5530	106	ac (80MHz)	MCS3	76.00	80.93
	5610	122	ac (80MHz)	MCS3	75.94	81.45
	5690	138	ac (80MHz)	MCS3	75.94	81.00
	5530	106	be (SU) (80MHz)	MCS3	77.54	82.56
	5610	122	be (SU) (80MHz)	MCS0	77.80	82.69
	5690	138	be (SU) (80MHz)	MCS3	77.52	82.65
	5570	114	ac (160MHz)	MCS0	155.10	166.81
	5570	114	be (SU) (160MHz)	MCS3	156.63	164.43

Table 7-4. Conducted Bandwidth Measurements Antenna WF7a

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 24 of 169

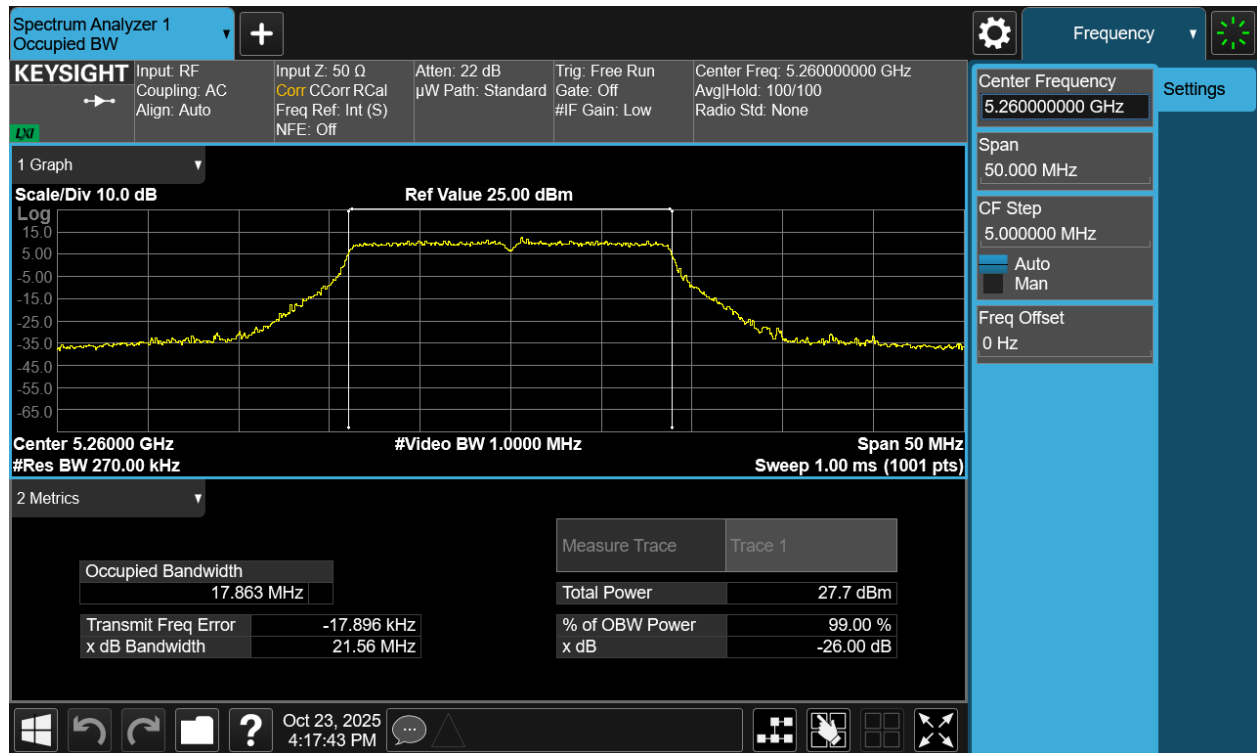
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	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	a	18Mbps	18.43
	5785	157	a	36Mbps	18.43
	5825	165	a	18Mbps	18.42
	5745	149	n (20MHz)	MCS5	18.39
	5785	157	n (20MHz)	MCS5	18.36
	5825	165	n (20MHz)	MCS3	18.41
	5745	149	be (SU) (20MHz)	MCS3	19.28
	5785	157	be (SU) (20MHz)	MCS3	19.28
	5825	165	be (SU) (20MHz)	MCS0	19.32
	5755	151	n (40MHz)	MCS5	37.39
	5795	159	n (40MHz)	MCS3	37.43
	5755	151	be (SU) (40MHz)	MCS3	38.78
	5795	159	be (SU) (40MHz)	MCS0	38.83
	5775	155	ac (80MHz)	MCS3	76.34
	5775	155	be (SU) (80MHz)	MCS3	78.14

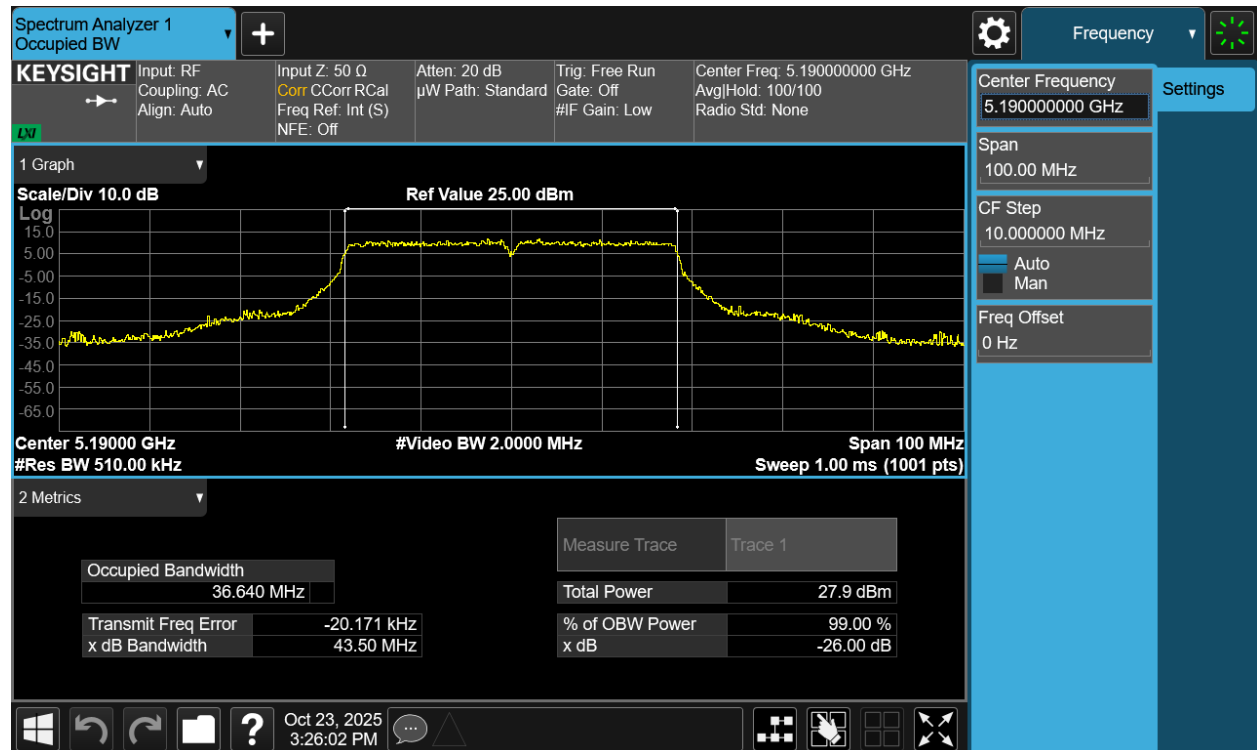
Table 7-5. Conducted Bandwidth Measurements Antenna UNII3 WF7a

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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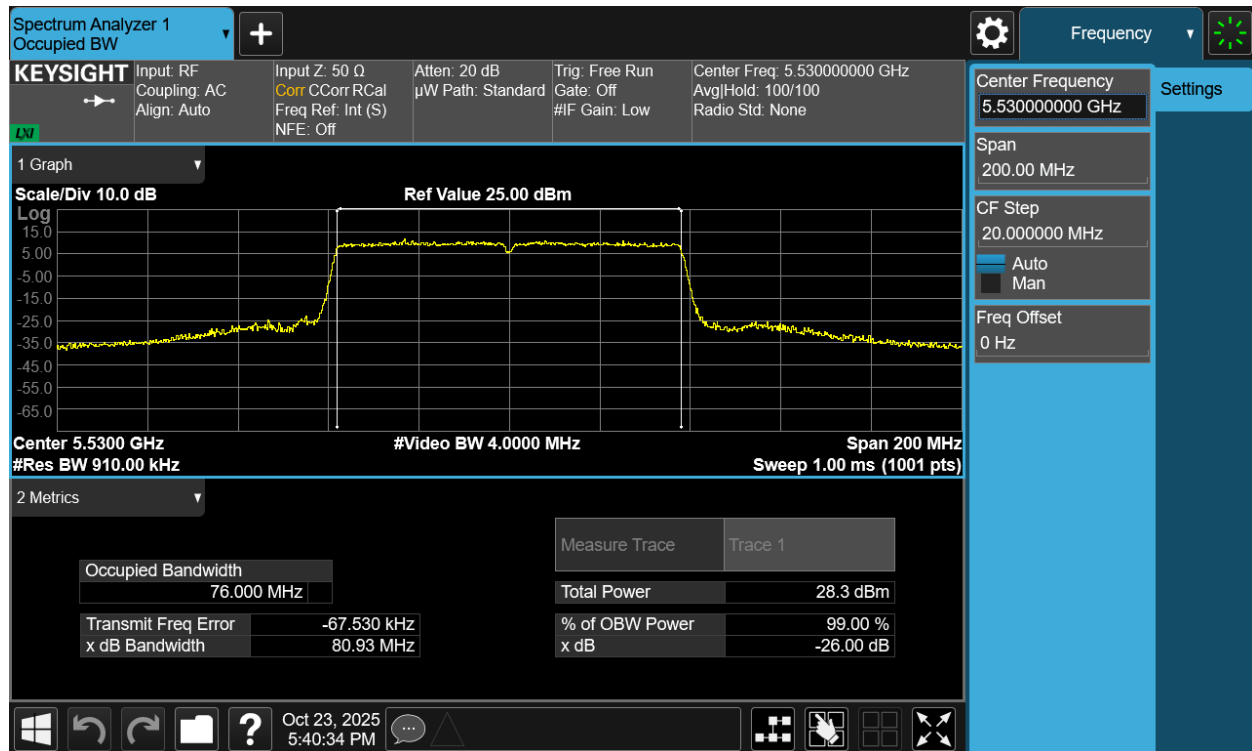


Plot 7-5 26dB BW & 99% OBW Antenna WF7a (20MHz BW 802.11n - Ch.52)

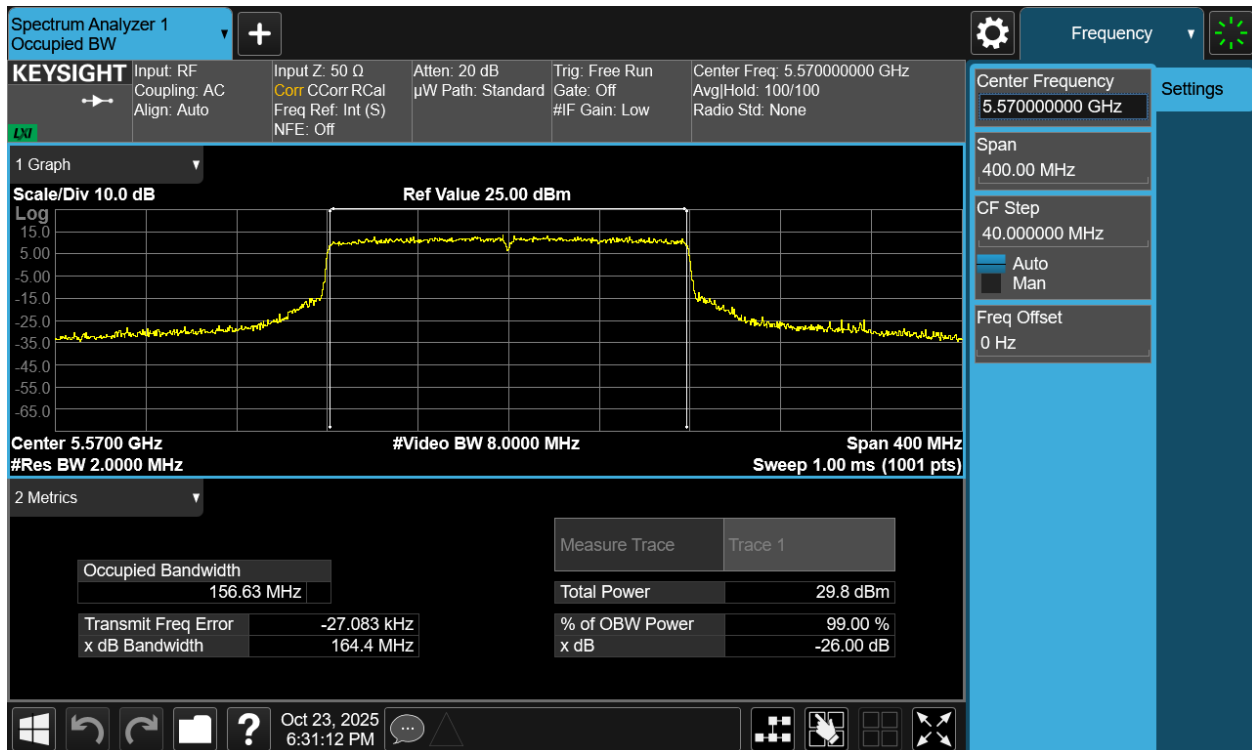


Plot 7-6 26dB BW & 99% OBW Antenna WF7a (40MHz BW 802.11n - Ch.38)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 26 of 169



Plot 7-7 26dB BW & 99% OBW Antenna WF7a (80MHz BW 802.11ac - Ch.106)



Plot 7-8 26dB BW & 99% OBW Antenna WF7a (160MHz BW 802.11be(SU) - Ch.114)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 27 of 169

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7.3 6 dB Bandwidth Measurement

§15.407 (e); RSS-247 [7.3.4.2]

Test Overview and Limit

The bandwidth at 6dB 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 6dB bandwidth.

In the 5.725 – 5.850GHz band, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.5.1
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels (low, mid, and high) were investigated, and tabular data provided. Only worst-case plots for each bandwidth are reported.

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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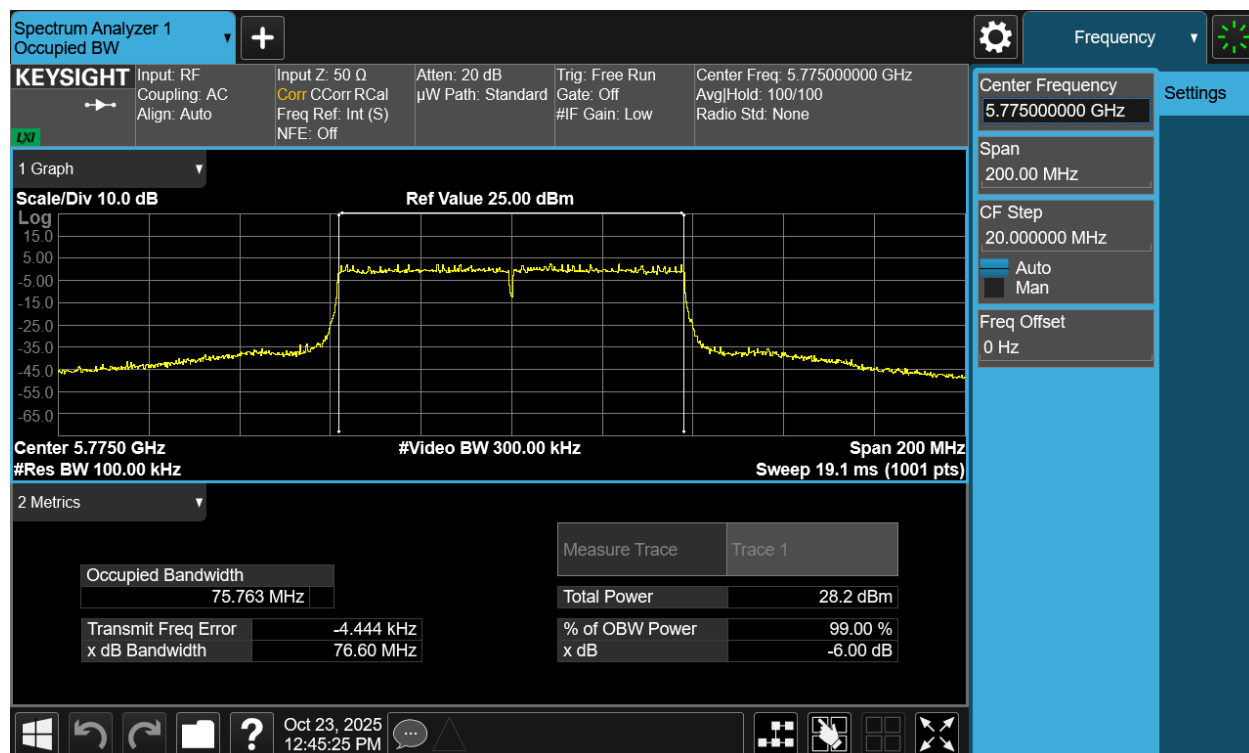
7.3.1 Antenna WF8 6dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	a	18Mbps	17.67	0.50	Pass
	5785	157	a	6Mbps	17.69	0.50	Pass
	5825	165	a	18Mbps	17.66	0.50	Pass
	5745	149	n (20MHz)	MCS0	17.68	0.50	Pass
	5785	157	n (20MHz)	MCS0	17.68	0.50	Pass
	5825	165	n (20MHz)	MCS0	17.67	0.50	Pass
	5745	149	be (SU) (20MHz)	MCS5	19.10	0.50	Pass
	5785	157	be (SU) (20MHz)	MCS3	19.10	0.50	Pass
	5825	165	be (SU) (20MHz)	MCS5	19.09	0.50	Pass
	5755	151	n (40MHz)	MCS0	36.51	0.50	Pass
	5795	159	n (40MHz)	MCS0	36.50	0.50	Pass
	5755	151	be (SU) (40MHz)	MCS5	38.22	0.50	Pass
	5795	159	be (SU) (40MHz)	MCS5	38.25	0.50	Pass
	5775	155	ac (80MHz)	MCS3	76.60	0.50	Pass
	5775	155	be (SU) (80MHz)	MCS5	78.27	0.50	Pass

Table 7-6. Conducted Bandwidth Measurements Antenna WF8

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 29 of 169

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Plot 7-11 6dB OBW Antenna WF8 (80MHz BW 802.11ac - Ch.155)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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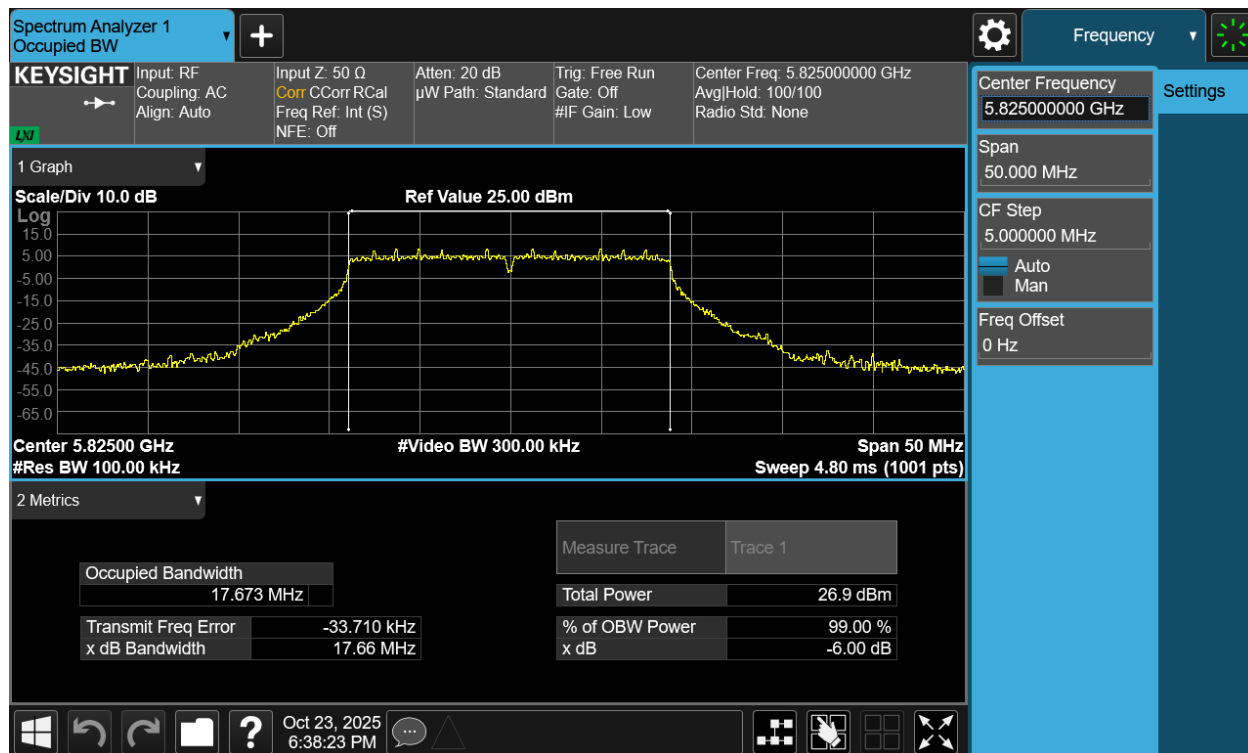
7.3.2 Antenna WF7a 6dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	a	18Mbps	17.67	0.50	Pass
	5785	157	a	18Mbps	17.70	0.50	Pass
	5825	165	a	18Mbps	17.66	0.50	Pass
	5745	149	n (20MHz)	MCS0	17.72	0.50	Pass
	5785	157	n (20MHz)	MCS0	17.68	0.50	Pass
	5825	165	n (20MHz)	MCS0	17.68	0.50	Pass
	5745	149	be (SU) (20MHz)	MCS3	19.07	0.50	Pass
	5785	157	be (SU) (20MHz)	MCS5	19.09	0.50	Pass
	5825	165	be (SU) (20MHz)	MCS3	19.12	0.50	Pass
	5755	151	n (40MHz)	MCS0	36.46	0.50	Pass
	5795	159	n (40MHz)	MCS0	36.46	0.50	Pass
	5755	151	be (SU) (40MHz)	MCS0	38.25	0.50	Pass
	5795	159	be (SU) (40MHz)	MCS3	38.22	0.50	Pass
	5775	155	ac (80MHz)	MCS0	76.60	0.50	Pass
	5775	155	be (SU) (80MHz)	MCS3	78.26	0.50	Pass

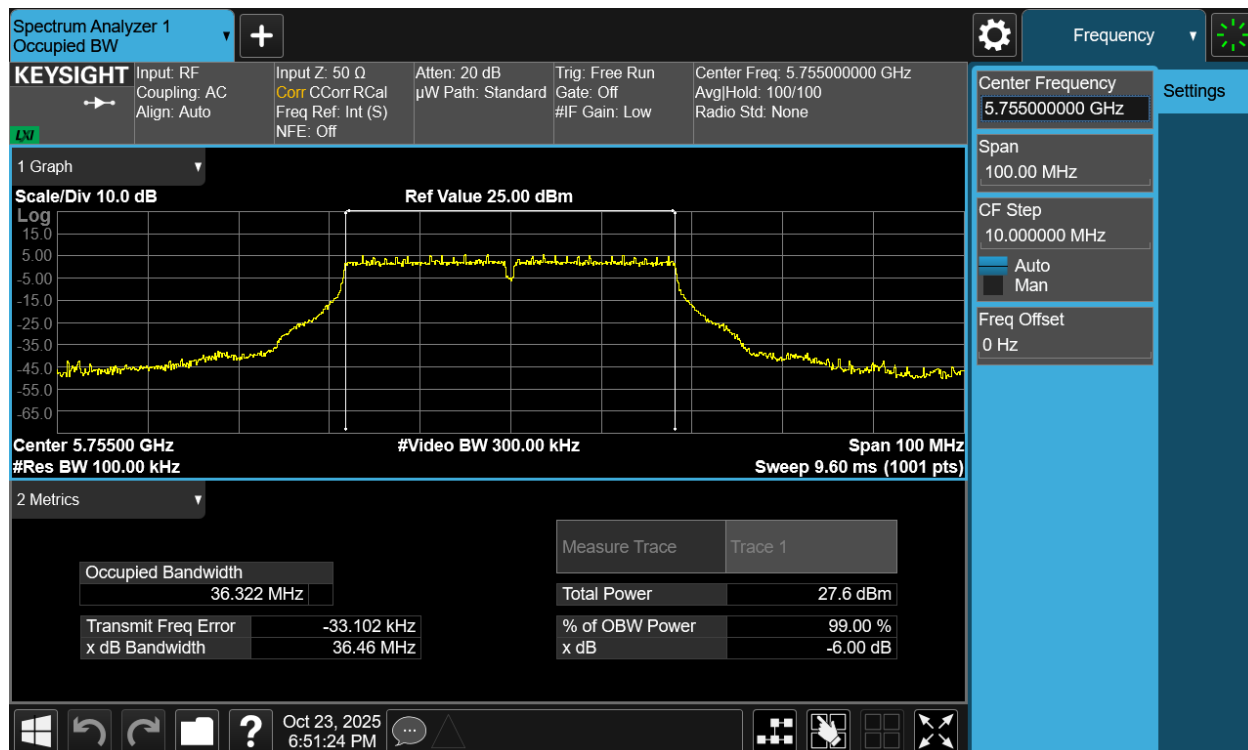
Table 7-7. Conducted Bandwidth Measurements Antenna WF7a

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 32 of 169

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Plot 7-12 6dB OBW Antenna WF7a (20MHz BW 802.11a - Ch.165)

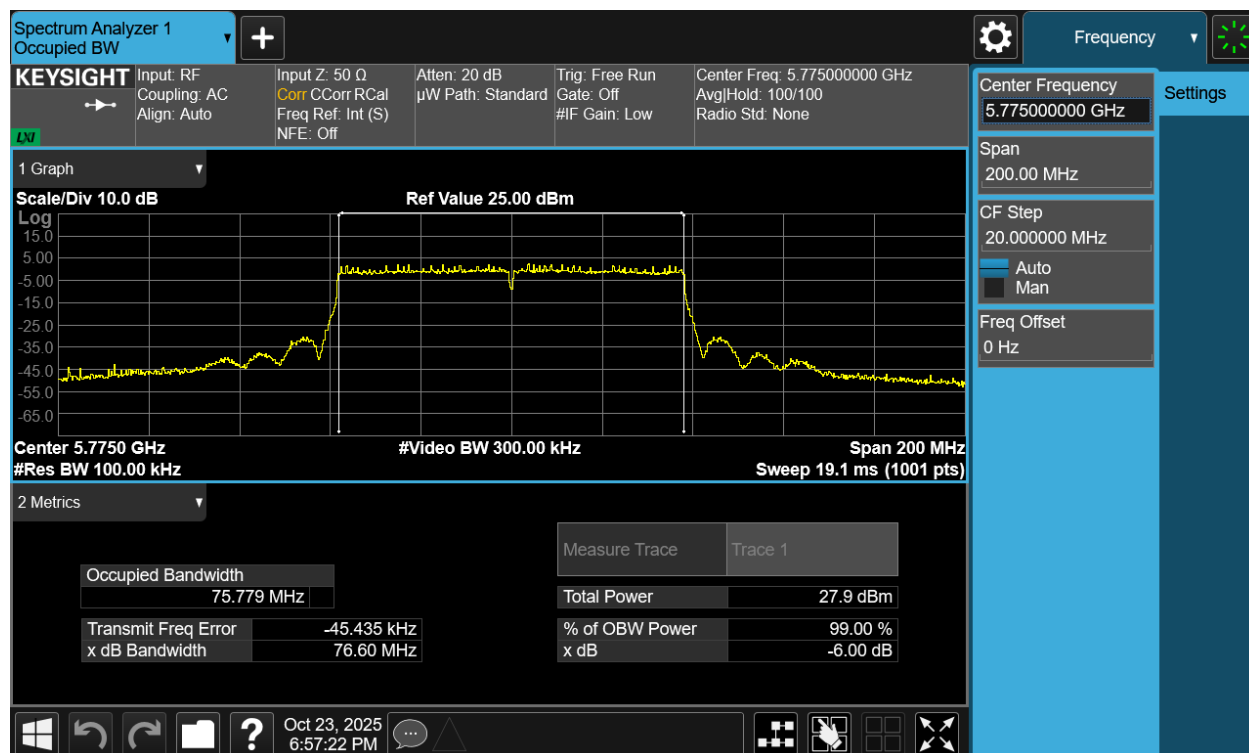


Plot 7-13 6dB OBW Antenna WF7a (40MHz BW 802.11n - Ch.151)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 33 of 169

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Plot 7-14 6dB OBW Antenna WF7a (80MHz BW 802.11ac - Ch.155)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4 Conducted Output Power and Max EIRP Measurement

§15.407(a.1.iv) §15.407(a.2) §15.407(a.3.i); RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter 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. B is the 99% OBW per ISED RSS-247 and 26dB BW is per FCC 15.407.

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or $10 + 10 \log_{10}(B)$, dBm.

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or $11 \text{ dBm} + 10\log_{10}(B)$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10}(B)$, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or $11 \text{ dBm} + 10\log_{10}(B)$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10}(B)$, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 14.4 Measure-and-Sum Technique

KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.

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7.4.1 FCC Antenna WF8 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	6Mbps	18.11	23.98	-5.87
	5200	40	6Mbps	20.47	23.98	-3.51
	5240	48	18Mbps	20.48	23.98	-3.50
	5260	52	18Mbps	20.42	23.98	-3.56
	5300	60	6Mbps	20.46	23.98	-3.52
	5320	64	6Mbps	18.22	23.98	-5.76
	5500	100	6Mbps	16.73	23.98	-7.25
	5520	104	6Mbps	20.46	23.98	-3.52
	5540	108	18Mbps	20.41	23.98	-3.57
	5580	116	18Mbps	20.34	23.98	-3.64
	5660	132	18Mbps	20.38	23.98	-3.60
	5680	136	6Mbps	20.18	23.98	-3.80
	5700	140	18Mbps	15.29	23.98	-8.69
	5720	144	18Mbps	19.96	23.98	-4.02
	5745	149	6Mbps	20.46	30.00	-9.54
	5765	153	18Mbps	20.46	30.00	-9.54
	5785	157	6Mbps	20.32	30.00	-9.68
	5805	161	18Mbps	20.22	30.00	-9.78
	5825	165	18Mbps	20.33	30.00	-9.67

Table 7-8. FCC Antenna WF8 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	MCS0	18.18	23.98	-5.80
	5200	40	MCS3	20.47	23.98	-3.51
	5240	48	MCS0	20.46	23.98	-3.52
	5260	52	MCS0	20.47	23.98	-3.51
	5300	60	MCS0	20.40	23.98	-3.58
	5320	64	MCS0	18.17	23.98	-5.81
	5500	100	MCS0	16.67	23.98	-7.31
	5520	104	MCS0	20.03	23.98	-3.95
	5540	108	MCS3	20.25	23.98	-3.73
	5580	116	MCS0	20.41	23.98	-3.57
	5660	132	MCS0	20.27	23.98	-3.71
	5680	136	MCS0	20.22	23.98	-3.76
	5700	140	MCS0	15.23	23.98	-8.75
	5720	144	MCS0	19.76	23.98	-4.22
	5745	149	MCS0	20.10	30.00	-9.90
	5765	153	MCS0	20.44	30.00	-9.56
	5785	157	MCS0	20.25	30.00	-9.75
	5805	161	MCS0	20.22	30.00	-9.78
	5825	165	MCS3	20.43	30.00	-9.57

Table 7-9. FCC Antenna WF8 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	MCS0	17.42	23.98	-6.56
	5200	40	MCS3	20.45	23.98	-3.53
	5240	48	MCS0	20.44	23.98	-3.54
	5260	52	MCS0	20.50	23.98	-3.48
	5300	60	MCS0	20.43	23.98	-3.55
	5320	64	MCS0	17.45	23.98	-6.53
	5500	100	MCS0	16.68	23.98	-7.30
	5520	104	MCS0	20.29	23.98	-3.69
	5540	108	MCS0	20.30	23.98	-3.68
	5580	116	MCS0	20.46	23.98	-3.52
	5660	132	MCS0	20.25	23.98	-3.72
	5680	136	MCS0	19.98	23.98	-4.00
	5700	140	MCS3	15.21	23.98	-8.77
	5720	144	MCS0	19.84	23.98	-4.14
	5745	149	MCS0	20.41	30.00	-9.59
	5765	153	MCS0	20.39	30.00	-9.61
	5785	157	MCS0	20.25	30.00	-9.75
	5805	161	MCS0	19.94	30.00	-10.06
	5825	165	MCS0	20.17	30.00	-9.83

Table 7-10. FCC Antenna WF8 20MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	MCS0	15.51	23.98	-8.47
	5230	46	MCS0	20.18	23.98	-3.80
	5270	54	MCS3	20.41	23.98	-3.57
	5310	62	MCS0	16.37	23.98	-7.61
	5510	102	MCS3	15.25	23.98	-8.73
	5550	110	MCS0	19.00	23.98	-4.98
	5590	118	MCS3	20.41	23.98	-3.57
	5630	126	MCS0	20.28	23.98	-3.69
	5670	134	MCS0	18.83	23.98	-5.15
	5710	142	MCS3	20.22	23.98	-3.76
	5755	151	MCS3	19.77	30.00	-10.23
	5795	159	MCS3	20.20	30.00	-9.80

Table 7-11. FCC Antenna WF8 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	MCS0	14.02	23.98	-9.96
	5230	46	MCS3	20.24	23.98	-3.74
	5270	54	MCS3	20.49	23.98	-3.49
	5310	62	MCS0	15.47	23.98	-8.51
	5510	102	MCS0	15.36	23.98	-8.62
	5550	110	MCS0	18.59	23.98	-5.39
	5590	118	MCS3	20.24	23.98	-3.74
	5630	126	MCS3	20.42	23.98	-3.56
	5670	134	MCS0	17.93	23.98	-6.05
	5710	142	MCS0	20.50	23.98	-3.48
	5755	151	MCS3	19.83	30.00	-10.17
	5795	159	MCS3	19.72	30.00	-10.28

Table 7-12. FCC Antenna WF8 40MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	MCS0	13.89	23.98	-10.09
	5290	58	MCS0	15.55	23.98	-8.43
	5530	106	MCS0	15.00	23.98	-8.98
	5610	122	MCS0	19.16	23.98	-4.82
	5690	138	MCS0	20.25	23.98	-3.73
	5775	155	MCS0	17.89	30.00	-12.11

Table 7-13. FCC Antenna WF8 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	MCS0	13.42	23.98	-10.56
	5290	58	MCS0	15.61	23.98	-8.37
	5530	106	MCS0	14.29	23.98	-9.69
	5610	122	MCS0	19.31	23.98	-4.67
	5690	138	MCS3	20.30	23.98	-3.68
	5775	155	MCS0	17.92	30.00	-12.08

Table 7-14. FCC Antenna WF8 80MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	MCS0	12.89	23.98	-11.09
	5570	114	MCS0	12.30	23.98	-11.68

Table 7-15. FCC Antenna WF8 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	MCS0	12.84	23.98	-11.14
	5570	114	MCS3	11.50	23.98	-12.48

Table 7-16. FCC Antenna WF8 160MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4.2 ISED Antenna WF8 Conducted Output Power and Max EIRP Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	6Mbps	18.45	-	-	-0.20	18.25	23.01	-4.76
	5200	40	18Mbps	20.34	-	-	-0.20	20.14	23.01	-2.87
	5240	48	18Mbps	20.24	-	-	-0.20	20.04	23.01	-2.97
	5260	52	18Mbps	20.42	23.98	-3.56	0.90	21.32	30.00	-8.68
	5300	60	6Mbps	20.46	23.98	-3.52	0.90	21.36	30.00	-8.64
	5320	64	6Mbps	18.22	23.98	-5.76	0.90	19.12	30.00	-10.88
	5500	100	6Mbps	16.73	23.98	-7.25	5.00	21.73	30.00	-8.27
	5520	104	6Mbps	20.46	23.98	-3.52	5.00	25.46	30.00	-4.54
	5540	108	18Mbps	20.41	23.98	-3.57	5.00	25.41	30.00	-4.59
	5580	116	18Mbps	20.34	23.98	-3.64	5.00	25.34	30.00	-4.66
	5660	132	18Mbps	20.38	23.98	-3.60	5.00	25.38	30.00	-4.62
	5680	136	6Mbps	20.18	23.98	-3.80	5.00	25.18	30.00	-4.82
	5700	140	18Mbps	15.29	23.98	-8.69	5.00	20.29	30.00	-9.71
	5720	144	18Mbps	19.96	23.98	-4.02	5.00	24.96	30.00	-5.04
	5745	149	6Mbps	20.46	30.00	-9.54	5.30	25.76	-	-
	5765	153	18Mbps	20.46	30.00	-9.54	5.30	25.76	-	-
	5785	157	6Mbps	20.32	30.00	-9.68	5.30	25.62	-	-
	5805	161	18Mbps	20.22	30.00	-9.78	5.30	25.52	-	-
	5825	165	18Mbps	20.33	30.00	-9.67	5.30	25.63	-	-

Table 7-17. ISED Antenna WF8 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	MCS0	18.48	-	-	-0.20	18.28	23.01	-4.73
	5200	40	MCS0	20.37	-	-	-0.20	20.17	23.01	-2.84
	5240	48	MCS0	20.26	-	-	-0.20	20.06	23.01	-2.95
	5260	52	MCS0	20.47	23.98	-3.51	0.90	21.37	30.00	-8.63
	5300	60	MCS0	20.40	23.98	-3.58	0.90	21.30	30.00	-8.70
	5320	64	MCS0	18.17	23.98	-5.81	0.90	19.07	30.00	-10.93
	5500	100	MCS0	16.67	23.98	-7.31	5.00	21.67	30.00	-8.33
	5520	104	MCS0	20.03	23.98	-3.95	5.00	25.03	30.00	-4.97
	5540	108	MCS3	20.25	23.98	-3.73	5.00	25.25	30.00	-4.75
	5580	116	MCS0	20.41	23.98	-3.57	5.00	25.41	30.00	-4.59
	5660	132	MCS0	20.27	23.98	-3.71	5.00	25.27	30.00	-4.73
	5680	136	MCS0	20.22	23.98	-3.76	5.00	25.22	30.00	-4.78
	5700	140	MCS0	15.23	23.98	-8.75	5.00	20.23	30.00	-9.77
	5720	144	MCS0	19.76	23.98	-4.22	5.00	24.76	30.00	-5.24
	5745	149	MCS0	20.10	30.00	-9.90	5.30	25.40	-	-
	5765	153	MCS0	20.44	30.00	-9.56	5.30	25.74	-	-
	5785	157	MCS0	20.25	30.00	-9.75	5.30	25.55	-	-
	5805	161	MCS0	20.22	30.00	-9.78	5.30	25.52	-	-
	5825	165	MCS3	20.43	30.00	-9.57	5.30	25.73	-	-

Table 7-18. ISED Antenna WF8 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	MCS0	17.22	-	-	-0.20	17.02	23.01	-5.99
	5200	40	MCS3	20.33	-	-	-0.20	20.13	23.01	-2.88
	5240	48	MCS3	20.22	-	-	-0.20	20.02	23.01	-2.99
	5260	52	MCS0	20.50	23.98	-3.48	0.90	21.40	30.00	-8.60
	5300	60	MCS0	20.43	23.98	-3.55	0.90	21.33	30.00	-8.67
	5320	64	MCS0	17.45	23.98	-6.53	0.90	18.35	30.00	-11.65
	5500	100	MCS0	16.68	23.98	-7.30	5.00	21.68	30.00	-8.32
	5520	104	MCS0	20.29	23.98	-3.69	5.00	25.29	30.00	-4.71
	5540	108	MCS0	20.30	23.98	-3.68	5.00	25.30	30.00	-4.70
	5580	116	MCS0	20.46	23.98	-3.52	5.00	25.46	30.00	-4.54
	5660	132	MCS0	20.25	23.98	-3.72	5.00	25.25	30.00	-4.75
	5680	136	MCS0	19.98	23.98	-4.00	5.00	24.98	30.00	-5.02
	5700	140	MCS3	15.21	23.98	-8.77	5.00	20.21	30.00	-9.79
	5720	144	MCS0	19.84	23.98	-4.14	5.00	24.84	30.00	-5.16
	5745	149	MCS0	20.41	30.00	-9.59	5.30	25.71	-	-
	5765	153	MCS0	20.39	30.00	-9.61	5.30	25.69	-	-
	5785	157	MCS0	20.25	30.00	-9.75	5.30	25.55	-	-
	5805	161	MCS0	19.94	30.00	-10.06	5.30	25.24	-	-
	5825	165	MCS0	20.17	30.00	-9.83	5.30	25.47	-	-

Table 7-19. ISED Antenna WF8 20MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 39 of 169	

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	MCS0	15.51	-	-	-0.20	15.31	23.01	-7.70
	5230	46	MCS3	20.18	-	-	-0.20	19.98	23.01	-3.03
	5270	54	MCS3	20.41	23.98	-3.57	0.90	21.31	30.00	-8.69
	5310	62	MCS0	16.37	23.98	-7.61	0.90	17.27	30.00	-12.73
	5510	102	MCS3	15.25	23.98	-8.73	5.00	20.25	30.00	-9.75
	5550	110	MCS0	19.00	23.98	-4.98	5.00	24.00	30.00	-6.00
	5590	118	MCS3	20.41	23.98	-3.57	5.00	25.41	30.00	-4.59
	5630	126	MCS0	20.28	23.98	-3.69	5.00	25.28	30.00	-4.72
	5670	134	MCS0	18.83	23.98	-5.15	5.00	23.83	30.00	-6.17
	5710	142	MCS3	20.22	23.98	-3.76	5.00	25.22	30.00	-4.78
	5755	151	MCS3	19.77	30.00	-10.23	5.30	25.07	-	-
	5795	159	MCS3	20.20	30.00	-9.80	5.30	25.50	-	-

Table 7-20. ISED Antenna WF8 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	MCS0	14.02	-	-	-0.20	13.82	23.01	-9.19
	5230	46	MCS3	20.24	-	-	-0.20	20.04	23.01	-2.97
	5270	54	MCS3	20.49	23.98	-3.49	0.90	21.39	30.00	-8.61
	5310	62	MCS0	15.47	23.98	-8.51	0.90	16.37	30.00	-13.63
	5510	102	MCS0	15.36	23.98	-8.62	5.00	20.36	30.00	-9.64
	5550	110	MCS0	18.59	23.98	-5.39	5.00	23.59	30.00	-6.41
	5590	118	MCS3	20.24	23.98	-3.74	5.00	25.24	30.00	-4.76
	5630	126	MCS3	20.42	23.98	-3.56	5.00	25.42	30.00	-4.58
	5670	134	MCS0	17.93	23.98	-6.05	5.00	22.93	30.00	-7.07
	5710	142	MCS0	20.50	23.98	-3.48	5.00	25.50	30.00	-4.50
	5755	151	MCS3	19.83	30.00	-10.17	5.30	25.13	-	-
	5795	159	MCS3	19.72	30.00	-10.28	5.30	25.02	-	-

Table 7-21. ISED Antenna WF8 40MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	MCS0	13.89	-	-	-0.20	13.69	23.01	-9.32
	5290	58	MCS0	15.55	23.98	-8.43	0.90	16.45	30.00	-13.55
	5530	106	MCS0	15.00	23.98	-8.98	5.00	20.00	30.00	-10.00
	5610	122	MCS0	19.16	23.98	-4.82	5.00	24.16	30.00	-5.84
	5690	138	MCS0	20.25	23.98	-3.73	5.00	25.25	30.00	-4.75
	5775	155	MCS0	17.89	30.00	-12.11	5.30	23.19	-	-

Table 7-22. ISED Antenna WF8 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	MCS0	13.42	-	-	-0.20	13.22	23.01	-9.79
	5290	58	MCS0	15.61	23.98	-8.37	0.90	16.51	30.00	-13.49
	5530	106	MCS0	14.29	23.98	-9.69	5.00	19.29	30.00	-10.71
	5610	122	MCS0	19.31	23.98	-4.67	5.00	24.31	30.00	-5.69
	5690	138	MCS3	20.30	23.98	-3.68	5.00	25.30	30.00	-4.70
	5775	155	MCS0	17.92	30.00	-12.08	5.30	23.22	-	-

Table 7-23. ISED Antenna WF8 80MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	MCS0	12.89	23.98	-11.09	0.90	13.79	23.01	-9.22
	5570	114	MCS0	12.30	23.98	-11.68	5.00	17.30	30.00	-12.70

Table 7-24. ISED Antenna WF8 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	MCS0	12.84	23.98	-11.14	0.90	13.74	23.01	-9.27
	5570	114	MCS0	11.50	23.98	-12.48	5.00	16.50	30.00	-13.50

Table 7-25. ISED Antenna WF8 160MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 40 of 169	

7.4.3 FCC Antenna WF7a Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	6Mbps	18.16	23.98	-5.82
	5200	40	18Mbps	20.42	23.98	-3.56
	5240	48	18Mbps	20.34	23.98	-3.64
	5260	52	18Mbps	20.42	23.98	-3.56
	5300	60	18Mbps	20.42	23.98	-3.56
	5320	64	6Mbps	18.26	23.98	-5.72
	5500	100	6Mbps	17.70	23.98	-6.28
	5520	104	18Mbps	20.40	23.98	-3.58
	5540	108	18Mbps	20.36	23.98	-3.62
	5580	116	6Mbps	20.47	23.98	-3.51
	5660	132	18Mbps	20.38	23.98	-3.60
	5680	136	6Mbps	20.20	23.98	-3.78
	5700	140	6Mbps	16.73	23.98	-7.25
	5720	144	18Mbps	20.40	23.98	-3.58
	5745	149	6Mbps	20.40	30.00	-9.60
	5765	153	18Mbps	20.47	30.00	-9.53
	5785	157	18Mbps	20.21	30.00	-9.79
	5805	161	18Mbps	20.29	30.00	-9.71
	5825	165	6Mbps	20.27	30.00	-9.73

Table 7-26. FCC Antenna WF7a 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	MCS0	18.17	23.98	-5.81
	5200	40	MCS3	20.45	23.98	-3.53
	5240	48	MCS0	20.44	23.98	-3.54
	5260	52	MCS0	20.23	23.98	-3.75
	5300	60	MCS0	20.31	23.98	-3.67
	5320	64	MCS0	18.24	23.98	-5.74
	5500	100	MCS0	17.68	23.98	-6.30
	5520	104	MCS0	20.49	23.98	-3.49
	5540	108	MCS0	20.48	23.98	-3.50
	5580	116	MCS0	20.44	23.98	-3.54
	5660	132	MCS0	20.28	23.98	-3.70
	5680	136	MCS0	20.48	23.98	-3.50
	5700	140	MCS0	16.73	23.98	-7.24
	5720	144	MCS0	20.29	23.98	-3.69
	5745	149	MCS0	20.43	30.00	-9.57
	5765	153	MCS0	20.38	30.00	-9.62
	5785	157	MCS0	20.03	30.00	-9.97
	5805	161	MCS0	20.22	30.00	-9.78
	5825	165	MCS0	20.27	30.00	-9.73

Table 7-27. FCC Antenna WF7a 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	MCS0	17.22	23.98	-6.76
	5200	40	MCS0	20.48	23.98	-3.50
	5240	48	MCS0	20.45	23.98	-3.53
	5260	52	MCS0	20.27	23.98	-3.71
	5300	60	MCS3	20.32	23.98	-3.66
	5320	64	MCS0	17.22	23.98	-6.76
	5500	100	MCS0	17.38	23.98	-6.60
	5520	104	MCS0	20.43	23.98	-3.55
	5540	108	MCS0	20.44	23.98	-3.54
	5580	116	MCS3	20.43	23.98	-3.55
	5660	132	MCS3	20.50	23.98	-3.48
	5680	136	MCS0	20.40	23.98	-3.58
	5700	140	MCS0	16.71	23.98	-7.27
	5720	144	MCS3	20.28	23.98	-3.70
	5745	149	MCS3	20.41	30.00	-9.59
	5765	153	MCS0	20.34	30.00	-9.66
	5785	157	MCS0	20.28	30.00	-9.72
	5805	161	MCS0	20.21	30.00	-9.80
	5825	165	MCS0	20.24	30.00	-9.76

Table 7-28. FCC Antenna WF7a 20MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	MCS0	15.51	23.98	-8.47
	5230	46	MCS3	18.91	23.98	-5.07
	5270	54	MCS3	20.21	23.98	-3.77
	5310	62	MCS0	16.29	23.98	-7.69
	5510	102	MCS0	15.61	23.98	-8.37
	5550	110	MCS3	20.32	23.98	-3.66
	5590	118	MCS3	20.30	23.98	-3.68
	5630	126	MCS3	20.35	23.98	-3.63
	5670	134	MCS0	18.86	23.98	-5.12
	5710	142	MCS3	20.09	23.98	-3.89
	5755	151	MCS3	20.02	30.00	-9.98
	5795	159	MCS3	20.00	30.00	-10.00

Table 7-29. FCC Antenna WF7a 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 42 of 169

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	MCS0	14.02	23.98	-9.96
	5230	46	MCS3	20.24	23.98	-3.74
	5270	54	MCS3	20.49	23.98	-3.49
	5310	62	MCS0	15.47	23.98	-8.51
	5510	102	MCS0	15.36	23.98	-8.62
	5550	110	MCS0	20.30	23.98	-3.68
	5590	118	MCS3	20.24	23.98	-3.74
	5630	126	MCS3	20.42	23.98	-3.56
	5670	134	MCS0	18.23	23.98	-5.75
	5710	142	MCS0	20.50	23.98	-3.48
	5755	151	MCS3	20.06	30.00	-9.94
	5795	159	MCS3	20.07	30.00	-9.93

Table 7-30. FCC Antenna WF7a 40MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	MCS3	13.73	23.98	-10.24
	5290	58	MCS3	14.92	23.98	-9.06
	5530	106	MCS0	14.71	23.98	-9.27
	5610	122	MCS0	19.86	23.98	-4.12
	5690	138	MCS0	20.20	23.98	-3.78
	5775	155	MCS0	18.11	30.00	-11.89

Table 7-31. FCC Antenna WF7a 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	MCS0	13.05	23.98	-10.93
	5290	58	MCS3	14.61	23.98	-9.37
	5530	106	MCS0	14.23	23.98	-9.75
	5610	122	MCS0	19.96	23.98	-4.02
	5690	138	MCS0	20.25	23.98	-3.73
	5775	155	MCS0	18.18	30.00	-11.82

Table 7-32. FCC Antenna WF7a 80MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	MCS3	12.75	23.98	-11.23
	5570	114	MCS0	12.95	23.98	-11.03

Table 7-33. FCC Antenna WF7a 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	MCS0	12.77	23.98	-11.21
	5570	114	MCS0	12.92	23.98	-11.06

Table 7-34. FCC Antenna WF7a 160MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.4 ISED Antenna WF7a Conducted Output Power Max EIRP Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	6Mbps	16.48	-	-	2.90	19.38	23.01	-3.63
	5200	40	18Mbps	17.38	-	-	2.90	20.28	23.01	-2.73
	5240	48	18Mbps	17.43	-	-	2.90	20.33	23.01	-2.68
	5260	52	18Mbps	20.42	23.98	-3.56	2.80	23.22	30.00	-6.78
	5300	60	18Mbps	20.42	23.98	-3.56	2.80	23.22	30.00	-6.78
	5320	64	6Mbps	18.26	23.98	-5.72	2.80	21.06	30.00	-8.94
	5500	100	6Mbps	17.70	23.98	-6.28	2.20	19.90	30.00	-10.10
	5520	104	18Mbps	20.40	23.98	-3.58	2.20	22.60	30.00	-7.40
	5540	108	18Mbps	20.36	23.98	-3.62	2.20	22.56	30.00	-7.44
	5580	116	6Mbps	20.47	23.98	-3.51	2.20	22.67	30.00	-7.33
	5660	132	18Mbps	20.38	23.98	-3.60	2.20	22.58	30.00	-7.42
	5680	136	6Mbps	20.20	23.98	-3.78	2.20	22.40	30.00	-7.60
	5700	140	6Mbps	16.73	23.98	-7.25	2.20	18.93	30.00	-11.07
	5720	144	18Mbps	20.40	23.98	-3.58	2.20	22.60	30.00	-7.40
	5745	149	6Mbps	20.40	30.00	-9.60	2.50	22.90	-	-
	5765	153	18Mbps	20.47	30.00	-9.53	2.50	22.97	-	-
	5785	157	18Mbps	20.21	30.00	-9.79	2.50	22.71	-	-
	5805	161	18Mbps	20.29	30.00	-9.71	2.50	22.79	-	-
	5825	165	6Mbps	20.27	30.00	-9.73	2.50	22.77	-	-

Table 7-35. ISED Antenna WF7a 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	MCS0	16.46	-	-	2.90	19.36	23.01	-3.65
	5200	40	MCS3	17.37	-	-	2.90	20.27	23.01	-2.74
	5240	48	MCS0	17.47	-	-	2.90	20.37	23.01	-2.64
	5260	52	MCS0	20.23	23.98	-3.75	2.80	23.03	30.00	-6.97
	5300	60	MCS0	20.31	23.98	-3.67	2.80	23.11	30.00	-6.89
	5320	64	MCS0	18.24	23.98	-5.74	2.80	21.04	30.00	-8.96
	5500	100	MCS0	17.68	23.98	-6.30	2.20	19.88	30.00	-10.12
	5520	104	MCS0	20.49	23.98	-3.49	2.20	22.69	30.00	-7.31
	5540	108	MCS0	20.48	23.98	-3.50	2.20	22.68	30.00	-7.32
	5580	116	MCS0	20.44	23.98	-3.54	2.20	22.64	30.00	-7.36
	5660	132	MCS0	20.28	23.98	-3.70	2.20	22.48	30.00	-7.52
	5680	136	MCS0	20.48	23.98	-3.50	2.20	22.68	30.00	-7.32
	5700	140	MCS0	16.73	23.98	-7.24	2.20	18.93	30.00	-11.07
	5720	144	MCS0	20.29	23.98	-3.69	2.20	22.49	30.00	-7.51
	5745	149	MCS0	20.43	30.00	-9.57	2.50	22.93	-	-
	5765	153	MCS0	20.38	30.00	-9.62	2.50	22.88	-	-
	5785	157	MCS0	20.03	30.00	-9.97	2.50	22.53	-	-
	5805	161	MCS0	20.22	30.00	-9.78	2.50	22.72	-	-
	5825	165	MCS0	20.27	30.00	-9.73	2.50	22.77	-	-

Table 7-36. ISED Antenna WF7a 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	MCS0	16.46	-	-	2.90	19.36	23.01	-3.65
	5200	40	MCS3	17.56	-	-	2.90	20.46	23.01	-2.55
	5240	48	MCS3	17.26	-	-	2.90	20.16	23.01	-2.85
	5260	52	MCS0	20.27	23.98	-3.71	2.80	23.07	30.00	-6.93
	5300	60	MCS3	20.32	23.98	-3.66	2.80	23.12	30.00	-6.88
	5320	64	MCS0	17.22	23.98	-6.76	2.80	20.02	30.00	-9.98
	5500	100	MCS0	17.38	23.98	-6.60	2.20	19.58	30.00	-10.42
	5520	104	MCS0	20.43	23.98	-3.55	2.20	22.63	30.00	-7.37
	5540	108	MCS0	20.44	23.98	-3.54	2.20	22.64	30.00	-7.36
	5580	116	MCS3	20.43	23.98	-3.55	2.20	22.63	30.00	-7.37
	5660	132	MCS3	20.50	23.98	-3.48	2.20	22.70	30.00	-7.30
	5680	136	MCS0	20.40	23.98	-3.58	2.20	22.60	30.00	-7.40
	5700	140	MCS0	16.71	23.98	-7.27	2.20	18.91	30.00	-11.09
	5720	144	MCS3	20.28	23.98	-3.70	2.20	22.48	30.00	-7.52
	5745	149	MCS3	20.41	30.00	-9.59	2.50	22.91	-	-
	5765	153	MCS0	20.34	30.00	-9.66	2.50	22.84	-	-
	5785	157	MCS0	20.28	30.00	-9.72	2.50	22.78	-	-
	5805	161	MCS0	20.21	30.00	-9.80	2.50	22.71	-	-
	5825	165	MCS0	20.24	30.00	-9.76	2.50	22.74	-	-

Table 7-37. ISED Antenna WF7a 20MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 45 of 169

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	MCS0	15.51	-	-	2.90	18.41	23.01	-4.60
	5230	46	MCS3	18.91	-	-	2.90	21.81	23.01	-1.20
	5270	54	MCS3	20.21	23.98	-3.77	2.80	23.01	30.00	-6.99
	5310	62	MCS0	16.29	23.98	-7.69	2.80	19.09	30.00	-10.91
	5510	102	MCS0	15.61	23.98	-8.37	2.20	17.81	30.00	-12.19
	5550	110	MCS3	20.32	23.98	-3.66	2.20	22.52	30.00	-7.48
	5590	118	MCS3	20.30	23.98	-3.68	2.20	22.50	30.00	-7.50
	5630	126	MCS3	20.35	23.98	-3.63	2.20	22.55	30.00	-7.45
	5670	134	MCS0	18.86	23.98	-5.12	2.20	21.06	30.00	-8.94
	5710	142	MCS3	20.09	23.98	-3.89	2.20	22.29	30.00	-7.71
	5755	151	MCS3	20.02	30.00	-9.98	2.50	22.52	-	-
	5795	159	MCS3	20.00	30.00	-10.00	2.50	22.50	-	-

Table 7-38. ISED Antenna WF7a 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	MCS0	14.31	-	-	2.90	17.21	23.01	-5.80
	5230	46	MCS3	18.98	-	-	2.90	21.88	23.01	-1.13
	5270	54	MCS3	20.26	23.98	-3.72	2.80	23.06	30.00	-6.94
	5310	62	MCS3	15.45	23.98	-8.53	2.80	18.25	30.00	-11.75
	5510	102	MCS0	15.68	23.98	-8.30	2.20	17.88	30.00	-12.12
	5550	110	MCS0	20.30	23.98	-3.68	2.20	22.50	30.00	-7.50
	5590	118	MCS3	20.35	23.98	-3.63	2.20	22.55	30.00	-7.45
	5630	126	MCS3	20.35	23.98	-3.63	2.20	22.55	30.00	-7.45
	5670	134	MCS0	18.23	23.98	-5.75	2.20	20.43	30.00	-9.57
	5710	142	MCS3	20.19	23.98	-3.79	2.20	22.39	30.00	-7.61
	5755	151	MCS3	20.06	30.00	-9.94	2.50	22.56	-	-
	5795	159	MCS3	20.07	30.00	-9.93	2.50	22.57	-	-

Table 7-39. ISED Antenna WF7a 40MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	MCS3	13.73	-	-	2.90	16.63	23.01	-6.38
	5290	58	MCS3	14.92	23.98	-9.06	2.80	17.72	30.00	-12.28
	5530	106	MCS0	14.71	23.98	-9.27	2.20	16.91	30.00	-13.09
	5610	122	MCS0	19.86	23.98	-4.12	2.20	22.06	30.00	-7.94
	5690	138	MCS0	20.20	23.98	-3.78	2.20	22.40	30.00	-7.60
	5775	155	MCS0	18.11	30.00	-11.89	2.50	20.61	-	-

Table 7-40. ISED Antenna WF7a 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	MCS0	13.05	-	-	2.90	15.95	23.01	-7.06
	5290	58	MCS3	14.61	23.98	-9.37	2.80	17.41	30.00	-12.59
	5530	106	MCS0	14.23	23.98	-9.75	2.20	16.43	30.00	-13.57
	5610	122	MCS0	19.96	23.98	-4.02	2.20	22.16	30.00	-7.84
	5690	138	MCS0	20.25	23.98	-3.73	2.20	22.45	30.00	-7.55
	5775	155	MCS0	18.18	30.00	-11.82	2.50	20.68	-	-

Table 7-41. ISED Antenna WF7a 80MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	MCS3	12.75	23.98	-11.23	2.90	15.65	23.01	-7.36
	5570	114	MCS0	12.95	23.98	-11.03	2.20	15.15	30.00	-14.85

Table 7-42. ISED Antenna WF7a 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	MCS0	12.77	23.98	-11.21	2.90	15.67	23.01	-7.34
	5570	114	MCS0	12.92	23.98	-11.06	2.20	15.12	30.00	-14.88

Table 7-43. ISED Antenna WF7a 160MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 46 of 169	

7.4.5 FCC CDD/SDM Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5180	36	CDD	6Mbps	16.45	16.19	19.33	23.98	-4.65
	5200	40	CDD	6Mbps	17.81	18.06	20.95	23.98	-3.03
	5240	48	CDD	18Mbps	18.18	18.18	21.19	23.98	-2.79
	5260	52	CDD	6Mbps	17.97	17.72	20.86	23.98	-3.12
	5300	60	CDD	18Mbps	18.15	18.19	21.18	23.98	-2.80
	5320	64	CDD	6Mbps	16.73	16.52	19.63	23.98	-4.35
	5500	100	CDD	18Mbps	14.88	14.90	17.90	23.98	-6.08
	5520	104	CDD	18Mbps	17.16	16.96	20.07	23.98	-3.91
	5540	108	CDD	18Mbps	17.43	17.40	20.42	23.98	-3.56
	5580	116	CDD	18Mbps	17.28	17.29	20.29	23.98	-3.69
	5660	132	CDD	18Mbps	17.32	17.24	20.29	23.98	-3.69
	5680	136	CDD	18Mbps	16.47	16.53	19.51	23.98	-4.47
	5700	140	CDD	6Mbps	15.29	15.30	18.30	23.98	-5.68
	5720	144	CDD	18Mbps	17.24	17.36	20.31	23.98	-3.67
	5745	149	CDD	6Mbps	20.46	20.42	23.45	30.00	-6.55
	5785	157	CDD	6Mbps	20.34	20.32	23.34	30.00	-6.66
	5805	161	CDD	18Mbps	20.26	20.24	23.26	30.00	-6.74
	5825	165	CDD	18Mbps	20.33	20.41	23.38	30.00	-6.62

Table 7-44. FCC CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5180	36	CDD	MCS0	16.39	16.40	19.40	23.98	-4.58
	5200	40	CDD	MCS0	18.29	18.20	21.26	23.98	-2.72
	5240	48	CDD	MCS0	18.18	18.10	21.15	23.98	-2.83
	5260	52	CDD	MCS0	18.19	18.20	21.21	23.98	-2.77
	5300	60	CDD	MCS0	18.14	18.21	21.18	23.98	-2.80
	5320	64	CDD	MCS0	16.65	16.92	19.80	23.98	-4.18
	5500	100	CDD	MCS0	14.80	14.76	17.79	23.98	-6.19
	5520	104	SDM	MCS0	17.96	17.90	20.94	23.98	-3.04
	5540	108	SDM	MCS0	17.97	18.14	21.07	23.98	-2.91
	5580	116	SDM	MCS0	18.11	18.10	21.12	23.98	-2.86
	5660	132	SDM	MCS0	18.00	18.13	21.07	23.98	-2.91
	5680	136	SDM	MCS0	17.23	17.30	20.28	23.98	-3.70
	5700	140	CDD	MCS0	15.22	15.20	18.22	23.98	-5.76
	5720	144	CDD	MCS0	17.83	17.95	20.90	23.98	-3.08
	5745	149	CDD	MCS3	20.28	20.02	23.16	30.00	-6.84
	5765	153	CDD	MCS0	20.38	20.32	23.36	30.00	-6.64
	5785	157	CDD	MCS0	20.26	20.26	23.27	30.00	-6.73
	5805	161	CDD	MCS0	20.23	20.14	23.20	30.00	-6.80
	5825	165	CDD	MCS3	20.46	20.03	23.26	30.00	-6.74

Table 7-45. FCC CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 47 of 169

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5180	36	CDD	MCS0	15.42	15.43	18.44	23.98	-5.54
	5200	40	CDD	MCS0	18.32	18.24	21.29	23.98	-2.69
	5240	48	CDD	MCS3	17.91	18.39	21.17	23.98	-2.81
	5260	52	CDD	MCS3	18.27	18.25	21.27	23.98	-2.71
	5300	60	CDD	MCS0	18.16	17.74	20.96	23.98	-3.02
	5320	64	CDD	MCS0	16.45	16.49	19.48	23.98	-4.50
	5500	100	CDD	MCS0	14.76	14.79	17.79	23.98	-6.19
	5520	104	SDM	MCS0	18.09	17.86	20.99	23.98	-2.99
	5540	108	SDM	MCS3	18.22	18.38	21.31	23.98	-2.67
	5580	116	SDM	MCS3	18.39	18.13	21.27	23.98	-2.71
	5660	132	SDM	MCS3	18.30	18.40	21.36	23.98	-2.62
	5680	136	SDM	MCS3	17.48	17.30	20.40	23.98	-3.58
	5700	140	CDD	MCS0	13.99	13.96	16.98	23.98	-7.00
	5720	144	SDM	MCS3	17.85	17.96	20.91	23.98	-3.07
	5745	149	CDD	MCS0	20.39	20.35	23.38	30.00	-6.62
	5765	153	CDD	MCS0	20.41	20.32	23.38	30.00	-6.62
	5785	157	CDD	MCS0	20.26	20.25	23.26	30.00	-6.74
	5805	161	CDD	MCS0	19.97	19.90	22.95	30.00	-7.05
	5825	165	CDD	MCS0	20.16	20.20	23.19	30.00	-6.81

Table 7-46. FCC CDD/SDM 20MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5190	38	CDD	MCS0	14.20	14.48	17.35	23.98	-6.63
	5230	46	CDD	MCS0	19.33	19.02	22.18	23.98	-1.80
	5270	54	CDD	MCS0	19.86	19.84	22.86	23.98	-1.12
	5310	62	CDD	MCS0	15.18	14.96	18.08	23.98	-5.90
	5510	102	CDD	MCS0	14.23	14.05	17.16	23.98	-6.82
	5550	110	CDD	MCS0	18.52	18.66	21.60	23.98	-2.38
	5590	118	SDM	MCS0	19.92	19.94	22.94	23.98	-1.04
	5630	126	CDD	MCS3	19.84	19.75	22.81	23.98	-1.17
	5670	134	CDD	MCS0	17.55	17.85	20.72	23.98	-3.26
	5710	142	CDD	MCS0	19.65	19.79	22.73	23.98	-1.25
	5755	151	CDD	MCS3	19.76	19.73	22.76	30.00	-7.24
	5795	159	CDD	MCS3	20.16	19.95	23.07	30.00	-6.93

Table 7-47. FCC CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5190	38	CDD	MCS0	12.80	12.54	15.68	23.98	-8.30
	5230	46	CDD	MCS0	19.31	19.03	22.18	23.98	-1.80
	5270	54	CDD	MCS0	19.26	19.10	22.19	23.98	-1.79
	5310	62	CDD	MCS0	14.75	14.74	17.75	23.98	-6.23
	5510	102	CDD	MCS0	14.26	14.07	17.18	23.98	-6.80
	5550	110	CDD	MCS0	18.06	18.19	21.13	23.98	-2.85
	5590	118	CDD	MCS0	19.89	19.70	22.81	23.98	-1.17
	5630	126	CDD	MCS3	19.92	19.84	22.89	23.98	-1.09
	5670	134	CDD	MCS0	16.87	16.90	19.89	23.98	-4.09
	5710	142	CDD	MCS3	19.76	19.68	22.73	23.98	-1.25
	5755	151	CDD	MCS3	19.84	19.80	22.83	30.00	-7.17
	5795	159	CDD	MCS3	19.74	19.52	22.64	30.00	-7.36

Table 7-48. FCC CDD 40MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 48 of 169

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5210	42	CDD	MCS0	11.82	11.96	14.90	23.98	-9.08
	5290	58	CDD	MCS0	13.04	13.20	16.13	23.98	-7.85
	5530	106	CDD	MCS0	13.43	13.35	16.40	23.98	-7.58
	5610	122	CDD	MCS0	18.65	18.38	21.53	23.98	-2.45
	5690	138	CDD	MCS0	19.66	19.64	22.66	23.98	-1.32
	5775	155	CDD	MCS0	17.09	17.03	20.07	30.00	-9.93

Table 7-49. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5210	42	CDD	MCS0	11.93	11.59	14.77	23.98	-9.21
	5290	58	CDD	MCS3	13.16	13.35	16.27	23.98	-7.71
	5530	106	CDD	MCS0	12.85	12.73	15.80	23.98	-8.18
	5610	122	CDD	MCS0	17.82	17.54	20.69	23.98	-3.29
	5690	138	CDD	MCS3	19.78	19.81	22.81	23.98	-1.17
	5775	155	CDD	MCS0	16.74	16.70	19.73	30.00	-10.27

Table 7-50. FCC CDD 80MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5250	50	CDD	MCS0	11.42	11.30	14.37	23.98	-9.61
	5570	114	CDD	MCS0	11.07	11.47	14.28	23.98	-9.70

Table 7-51. FCC CDD 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF8	Antenna WF7a	Summed		
	5250	50	CDD	MCS0	11.39	11.26	14.33	23.98	-9.65
	5570	114	CDD	MCS0	11.04	11.40	14.23	23.98	-9.75

Table 7-52. FCC CDD 160MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 49 of 169

7.4.6 ISED CDD/SDM Maximum Conducted Output Power Max EIRP Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5180	36	CDD	6Mbps	11.88	12.03	14.97	-	-	2.90	17.87	23.01	-5.14
	5200	40	CDD	18Mbps	12.65	12.56	15.61	-	-	2.90	18.51	23.01	-4.50
	5240	48	CDD	18Mbps	12.65	12.64	15.66	-	-	2.90	18.56	23.01	-4.45
	5260	52	CDD	6Mbps	17.97	17.72	20.86	23.98	-3.12	2.80	23.66	30.00	-6.34
	5300	60	CDD	18Mbps	18.15	18.19	21.18	23.98	-2.80	2.80	23.98	30.00	-6.02
	5320	64	CDD	6Mbps	16.73	16.52	19.63	23.98	-4.35	2.80	22.43	30.00	-7.57
	5500	100	CDD	18Mbps	14.88	14.90	17.90	23.98	-6.08	5.00	22.90	30.00	-7.10
	5520	104	CDD	18Mbps	17.16	16.96	20.07	23.98	-3.91	5.00	25.07	30.00	-4.93
	5540	108	CDD	18Mbps	17.43	17.40	20.42	23.98	-3.56	5.00	25.42	30.00	-4.58
	5580	116	CDD	18Mbps	17.28	17.29	20.29	23.98	-3.69	5.00	25.29	30.00	-4.71
	5660	132	CDD	18Mbps	17.32	17.24	20.29	23.98	-3.69	5.00	25.29	30.00	-4.71
	5680	136	CDD	18Mbps	16.47	16.53	19.51	23.98	-4.47	5.00	24.51	30.00	-5.49
	5700	140	CDD	6Mbps	15.29	15.30	18.30	23.98	-5.68	5.00	23.30	30.00	-6.70
	5720	144	CDD	18Mbps	17.24	17.36	20.31	23.98	-3.67	5.00	25.31	30.00	-4.69
	5745	149	CDD	6Mbps	20.46	20.42	23.45	30.00	-6.55	5.30	28.75	-	-
	5765	153	CDD	6Mbps	20.47	20.39	23.44	30.00	-6.56	5.30	28.74	-	-
	5785	157	CDD	6Mbps	20.34	20.32	23.34	30.00	-6.66	5.30	28.64	-	-
	5805	161	CDD	18Mbps	20.26	20.24	23.26	30.00	-6.74	5.30	28.56	-	-
	5825	165	CDD	18Mbps	20.33	20.41	23.38	30.00	-6.62	5.30	28.68	-	-

Table 7-53. ISED CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5180	36	SDM	MCS0	14.62	14.71	17.67	-	-	1.62	19.29	23.01	-3.72
	5200	40	SDM	MCS0	15.54	15.49	18.53	-	-	1.62	20.15	23.01	-2.86
	5240	48	SDM	MCS0	15.43	15.43	18.44	-	-	1.62	20.06	23.01	-2.95
	5260	52	CDD	MCS0	18.19	18.20	21.21	23.98	-2.77	2.80	24.01	30.00	-5.99
	5300	60	CDD	MCS0	18.14	18.21	21.18	23.98	-2.80	2.80	23.98	30.00	-6.02
	5320	64	CDD	MCS0	16.65	16.92	19.80	23.98	-4.18	2.80	22.60	30.00	-7.40
	5500	100	CDD	MCS0	14.80	14.76	17.79	23.98	-6.19	5.00	22.79	30.00	-7.21
	5520	104	SDM	MCS0	17.96	17.90	20.94	23.98	-3.04	3.82	24.76	30.00	-5.24
	5540	108	SDM	MCS0	17.97	18.14	21.07	23.98	-2.91	3.82	24.89	30.00	-5.11
	5580	116	SDM	MCS0	18.11	18.10	21.12	23.98	-2.86	3.82	24.94	30.00	-5.06
	5660	132	SDM	MCS0	18.00	18.13	21.07	23.98	-2.91	3.82	24.89	30.00	-5.11
	5680	136	SDM	MCS0	17.23	17.30	20.28	23.98	-3.70	3.82	24.10	30.00	-5.90
	5700	140	CDD	MCS0	15.22	15.20	18.22	23.98	-5.76	5.00	23.22	30.00	-6.78
	5720	144	SDM	MCS0	17.83	17.95	20.90	23.98	-3.08	3.82	24.72	30.00	-5.28
	5745	149	CDD	MCS3	20.28	20.02	23.16	30.00	-6.84	5.30	28.46	-	-
	5765	153	CDD	MCS0	20.38	20.32	23.36	30.00	-6.64	5.30	28.66	-	-
	5785	157	CDD	MCS0	20.26	20.26	23.27	30.00	-6.73	5.30	28.57	-	-
	5805	161	CDD	MCS0	20.23	20.14	23.20	30.00	-6.80	5.30	28.50	-	-
	5825	165	CDD	MCS3	20.46	20.03	23.26	30.00	-6.74	5.30	28.56	-	-

Table 7-54. ISED CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5180	36	SDM	MCS3	14.65	14.75	17.71	-	-	1.62	19.33	23.01	-3.68
	5200	40	SDM	MCS3	15.56	15.51	18.54	-	-	1.62	20.16	23.01	-2.85
	5240	48	SDM	MCS3	15.73	15.49	18.62	-	-	1.62	20.24	23.01	-2.77
	5260	52	CDD	MCS3	18.27	18.25	21.27	23.98	-2.71	2.80	24.07	30.00	-5.93
	5300	60	CDD	MCS0	18.16	17.74	20.96	23.98	-3.02	2.80	23.76	30.00	-6.24
	5320	64	CDD	MCS0	16.45	16.49	19.48	23.98	-4.50	2.80	22.28	30.00	-7.72
	5500	100	CDD	MCS0	14.76	14.79	17.79	23.98	-6.19	5.00	22.79	30.00	-7.21
	5520	104	SDM	MCS0	18.09	17.86	20.99	23.98	-2.99	3.82	24.81	30.00	-5.19
	5540	108	SDM	MCS3	18.22	18.38	21.31	23.98	-2.67	3.82	25.13	30.00	-4.87
	5580	116	SDM	MCS3	18.39	18.13	21.27	23.98	-2.71	3.82	25.09	30.00	-4.91
	5660	132	SDM	MCS3	18.30	18.40	21.36	23.98	-2.62	3.82	25.18	30.00	-4.82
	5680	136	SDM	MCS3	17.48	17.30	20.40	23.98	-3.58	3.82	24.22	30.00	-5.78
	5700	140	CDD	MCS0	13.99	13.96	16.98	23.98	-7.00	5.00	21.98	30.00	-8.02
	5720	144	SDM	MCS3	17.85	17.96	20.91	23.98	-3.07	3.82	24.73	30.00	-5.27
	5745	149	CDD	MCS0	20.39	20.35	23.38	30.00	-6.62	5.30	28.68	-	-
	5765	153	CDD	MCS0	20.41	20.32	23.38	30.00	-6.62	5.30	28.68	-	-
	5785	157	CDD	MCS0	20.26	20.25	23.26	30.00	-6.74	5.30	28.56	-	-
	5805	161	CDD	MCS0	19.97	19.90	22.95	30.00	-7.05	5.30	28.25	-	-
	5825	165	CDD	MCS0	20.16	20.20	23.19	30.00	-6.81	5.30	28.49	-	-

Table 7-55. ISED CDD/SDM 20MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 50 of 169

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5190	38	CDD	MCS0	14.06	14.25	17.16	-	-	2.90	20.06	23.01	-2.95
	5230	46	SDM	MCS3	17.37	17.14	20.27	-	-	1.62	21.89	23.01	-1.12
	5270	54	CDD	MCS0	19.86	19.84	22.86	23.98	-1.12	2.80	25.66	30.00	-4.34
	5310	62	CDD	MCS0	15.18	14.96	18.08	23.98	-5.90	2.80	20.88	30.00	-9.12
	5510	102	CDD	MCS0	14.23	14.05	17.16	23.98	-6.82	5.00	22.16	30.00	-7.84
	5550	110	CDD	MCS0	18.52	18.66	21.60	23.98	-2.38	5.00	26.60	30.00	-3.40
	5590	118	SDM	MCS0	19.92	19.94	22.94	23.98	-1.04	3.82	26.76	30.00	-3.24
	5630	126	CDD	MCS3	19.84	19.75	22.81	23.98	-1.17	5.00	27.81	30.00	-2.19
	5670	134	CDD	MCS0	17.55	17.85	20.72	23.98	-3.26	5.00	25.72	30.00	-4.28
	5710	142	CDD	MCS0	19.65	19.79	22.73	23.98	-1.25	5.00	27.73	30.00	-2.27
	5755	151	CDD	MCS3	19.76	19.73	22.76	30.00	-7.24	5.30	28.06	-	-
	5795	159	CDD	MCS3	20.16	19.95	23.07	30.00	-6.93	5.30	28.37	-	-

Table 7-56. ISED CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5190	38	CDD	MCS3	12.75	12.76	15.77	-	-	2.90	18.67	23.01	-4.34
	5230	46	SDM	MCS0	17.29	17.07	20.19	-	-	1.62	21.81	23.01	-1.20
	5270	54	CDD	MCS0	19.26	19.10	22.19	23.98	-1.79	2.80	24.99	30.00	-5.01
	5310	62	CDD	MCS0	14.75	14.74	17.75	23.98	-6.23	2.80	20.55	30.00	-9.45
	5510	102	CDD	MCS0	14.26	14.07	17.18	23.98	-6.80	5.00	22.18	30.00	-7.82
	5550	110	CDD	MCS0	18.06	18.19	21.13	23.98	-2.85	5.00	26.13	30.00	-3.87
	5590	118	CDD	MCS0	19.89	19.70	22.81	23.98	-1.17	5.00	27.81	30.00	-2.19
	5630	126	CDD	MCS3	19.92	19.84	22.89	23.98	-1.09	5.00	27.89	30.00	-2.11
	5670	134	CDD	MCS0	16.87	16.90	19.89	23.98	-4.09	5.00	24.89	30.00	-5.11
	5710	142	CDD	MCS3	19.76	19.68	22.73	23.98	-1.25	5.00	27.73	30.00	-2.27
	5755	151	CDD	MCS3	19.84	19.80	22.83	30.00	-7.17	5.30	28.13	-	-
	5795	159	CDD	MCS3	19.74	19.52	22.64	30.00	-7.36	5.30	27.94	-	-

Table 7-57. ISED CDD/SDM 40MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5210	42	CDD	MCS0	11.59	11.97	14.79	-	-	2.90	17.69	23.01	-5.32
	5290	58	CDD	MCS0	13.04	13.20	16.13	23.98	-7.85	2.80	18.93	30.00	-11.07
	5530	106	CDD	MCS0	13.43	13.35	16.40	23.98	-7.58	5.00	21.40	30.00	-8.60
	5610	122	CDD	MCS0	18.65	18.38	21.53	23.98	-2.45	5.00	26.53	30.00	-3.47
	5690	138	CDD	MCS0	19.66	19.64	22.66	23.98	-1.32	5.00	27.66	30.00	-2.34
	5775	155	CDD	MCS0	17.09	17.03	20.07	30.00	-9.93	5.30	25.37	-	-

Table 7-58. ISED CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5210	42	CDD	MCS0	11.74	11.62	14.69	-	-	2.90	17.59	23.01	-5.42
	5290	58	CDD	MCS3	13.16	13.35	16.27	23.98	-7.71	2.80	19.07	30.00	-10.93
	5530	106	CDD	MCS0	12.85	12.73	15.80	23.98	-8.18	5.00	20.80	30.00	-9.20
	5610	122	CDD	MCS0	17.82	17.54	20.69	23.98	-3.29	5.00	25.69	30.00	-4.31
	5690	138	CDD	MCS3	19.78	19.81	22.81	23.98	-1.17	5.00	27.81	30.00	-2.19
	5775	155	CDD	MCS0	16.74	16.70	19.73	30.00	-10.27	5.30	25.03	-	-

Table 7-59. ISED CDD 80MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5250	50	CDD	MCS0	11.24	11.32	14.29	23.98	-9.69	2.90	17.19	23.01	-5.82
	5570	114	CDD	MCS0	11.07	11.47	14.28	23.98	-9.70	5.00	19.28	30.00	-10.72

Table 7-60. ISED CDD 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed						
	5250	50	CDD	MCS0	11.39	11.26	14.33	23.98	-9.65	2.90	17.23	23.01	-5.78
	5570	114	CDD	MCS0	11.18	11.28	14.24	23.98	-9.74	5.00	19.24	30.00	-10.76

Table 7-61. ISED CDD 160MHz BW 802.11be (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 51 of 169

Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna WF8 and Antenna WF7a were first measured separately during CDD/SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = G_{ANT} + \text{Array Gain dBi}$$

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample CDD/SDM Calculation:

At 5180MHz in 802.11a (20MHz BW) mode, the average conducted output power was measured to be 11.88 dBm for Antenna WF8 and 12.03 dBm for Antenna WF7a.

$$\text{Antenna WF8} + \text{Antenna WF7a} = \text{CDD/SDM}$$

$$(11.88 \text{ dBm} + 12.03 \text{ dBm}) = (15.417 \text{ mW} + 15.959 \text{ mW}) = 31.376 \text{ mW} = 14.97 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11a (20MHz BW) mode, the average MIMO conducted power was calculated to be 14.97 dBm with directional gain of 2.90 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$14.97 \text{ dBm} + 2.90 \text{ dBi} = 17.87 \text{ dBm}$$

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7.5 Maximum Power Spectral Density

\$15.407(a.1.iv) \$15.407(a.2) \$15.407(a.3.i); RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was 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. Method SA-1, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.

In the 5.15 – 5.25GHz band, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1 MHz band.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.2.2

KDB 789033 D02 v02r01 – Section F

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 14.5.2.2 Measure-and-Sum Technique

KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Set span to encompass the entire 99% OBW of the signal
3. RBW = 1MHz for U-NII 1, U-NII 2A, U-NII 2C; 500kHz for U-NII 3
4. VBW ≥ 3MHz for U-NII 1, U-NII 2A, U-NII 2C; ≥ 3 x RBW for U-NII 3
5. Number of sweep points ≥ 2 x (span/RBW)
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels (low, mid, and high) were investigated, and tabular data provided. Only worst-case plots for each bandwidth are reported.
2. The duty cycle correction factor (DCCF) has been applied as an amplitude offset in the spectrum analyzer to ensure the required correction is accurately reflected in the measured Power Spectral Density (PSD). The offset value is indicated on each PSD plot.

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7.5.1 Antenna WF8 Power Spectral Density Measurements

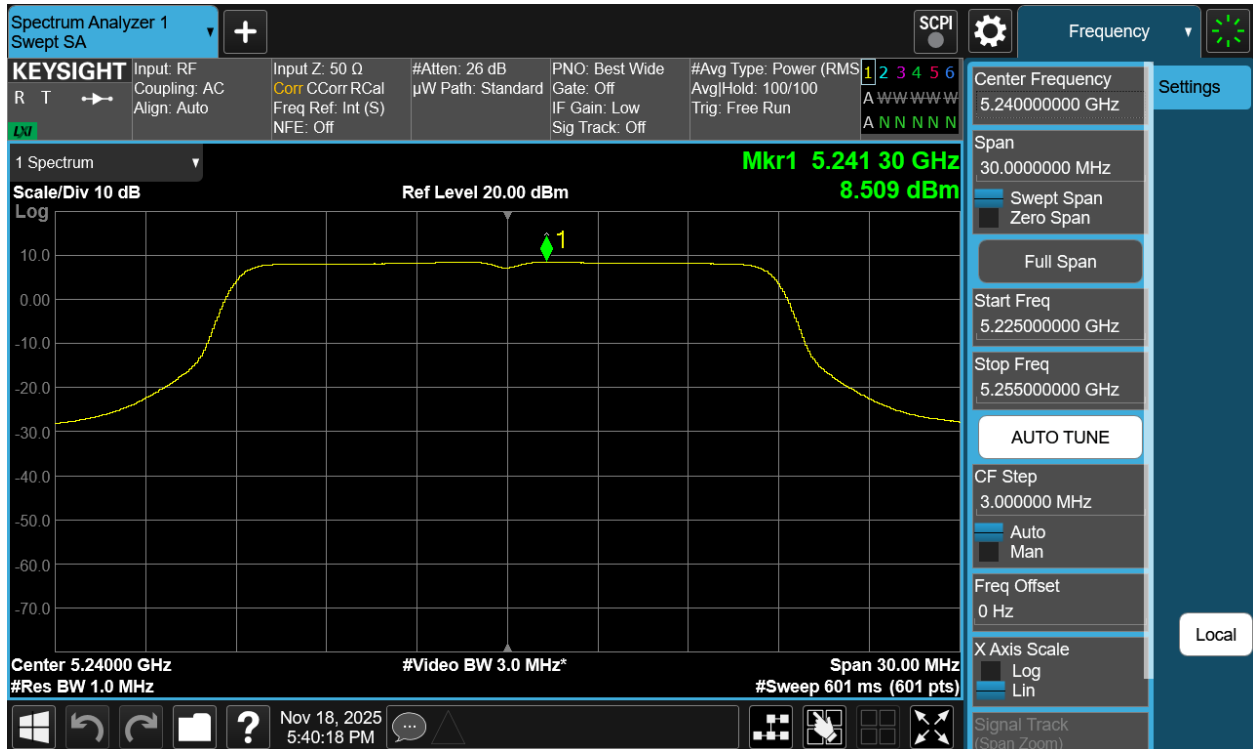
	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6Mbps	5.81	11.00	-5.19
	5200	40	a	36Mbps	8.08	11.00	-2.92
	5240	48	a	18Mbps	8.51	11.00	-2.49
	5180	36	n (20MHz)	MCS0	5.89	11.00	-5.11
	5200	40	n (20MHz)	MCS3	8.09	11.00	-2.91
	5240	48	n (20MHz)	MCS5	8.09	11.00	-2.91
	5180	36	be (SU) (20MHz)	MCS0	4.87	11.00	-6.14
	5200	40	be (SU) (20MHz)	MCS5	7.77	11.00	-3.23
	5240	48	be (SU) (20MHz)	MCS3	7.82	11.00	-3.18
	5190	38	n (40MHz)	MCS0	0.89	11.00	-10.11
	5230	46	n (40MHz)	MCS0	5.25	11.00	-5.75
	5190	38	be (SU) (40MHz)	MCS0	-1.05	11.00	-12.05
	5230	46	be (SU) (40MHz)	MCS3	4.96	11.00	-6.04
	5210	42	ac (80MHz)	MCS0	-4.58	11.00	-15.58
Band 1/2	5210	42	be (SU) (80MHz)	MCS0	-5.37	11.00	-16.37
	5250	50	ac (160MHz)	MCS0	-8.21	11.00	-19.21
Band 2A	5250	50	be (SU) (160MHz)	MCS0	-8.33	11.00	-19.33
	5260	52	a	36Mbps	8.11	11.00	-2.89
	5300	60	a	36Mbps	8.13	11.00	-2.87
	5320	64	a	6Mbps	6.01	11.00	-4.99
	5260	52	n (20MHz)	MCS5	8.12	11.00	-2.88
	5300	60	n (20MHz)	MCS5	8.12	11.00	-2.88
	5320	64	n (20MHz)	MCS0	5.96	11.00	-5.04
	5260	52	be (SU) (20MHz)	MCS0	7.85	11.00	-3.15
	5300	60	be (SU) (20MHz)	MCS5	7.85	11.00	-3.15
	5320	64	be (SU) (20MHz)	MCS0	5.04	11.00	-5.96
	5270	54	n (40MHz)	MCS5	5.27	11.00	-5.73
	5310	62	n (40MHz)	MCS0	1.41	11.00	-9.59
	5270	54	be (SU) (40MHz)	MCS3	5.07	11.00	-5.94
	5310	62	be (SU) (40MHz)	MCS0	0.31	11.00	-10.69
	5290	58	ac (80MHz)	MCS0	-2.71	11.00	-13.71
	5290	58	be (SU) (80MHz)	MCS0	-2.78	11.00	-13.78
Band 2C	5500	100	a	6Mbps	4.55	11.00	-6.45
	5580	116	a	36Mbps	7.99	11.00	-3.01
	5720	144	a	18Mbps	7.92	11.00	-3.08
	5500	100	n (20MHz)	MCS0	4.50	11.00	-6.50
	5580	116	n (20MHz)	MCS5	7.98	11.00	-3.02
	5720	144	n (20MHz)	MCS5	7.46	11.00	-3.54
	5500	100	be (SU) (20MHz)	MCS0	4.26	11.00	-6.74
	5580	116	be (SU) (20MHz)	MCS5	7.70	11.00	-3.31
	5720	144	be (SU) (20MHz)	MCS0	7.19	11.00	-3.81
	5510	102	n (40MHz)	MCS3	0.27	11.00	-10.73
	5550	110	n (40MHz)	MCS0	3.71	11.00	-7.29
	5590	118	n (40MHz)	MCS5	5.18	11.00	-5.82
	5670	134	n (40MHz)	MCS0	3.53	11.00	-7.47
	5710	142	n (40MHz)	MCS5	3.60	11.00	-7.40
	5510	102	be (SU) (40MHz)	MCS0	0.13	11.00	-10.87
	5550	110	be (SU) (40MHz)	MCS0	3.05	11.00	-7.95
	5710	142	be (SU) (40MHz)	MCS0	3.80	11.00	-7.20
	5530	106	ac (80MHz)	MCS0	-3.44	11.00	-14.44
	5610	122	ac (80MHz)	MCS0	0.77	11.00	-10.23
	5690	138	ac (80MHz)	MCS5	1.45	11.00	-9.55
	5530	106	be (SU) (80MHz)	MCS0	-4.28	11.00	-15.28
	5610	122	be (SU) (80MHz)	MCS0	0.73	11.00	-10.27
	5690	138	be (SU) (80MHz)	MCS5	0.78	11.00	-10.22
	5570	114	ac (160MHz)	MCS0	-8.89	11.00	-19.89
	5570	114	be (SU) (160MHz)	MCS3	-9.38	11.00	-20.38

Table 7-62. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna WF8

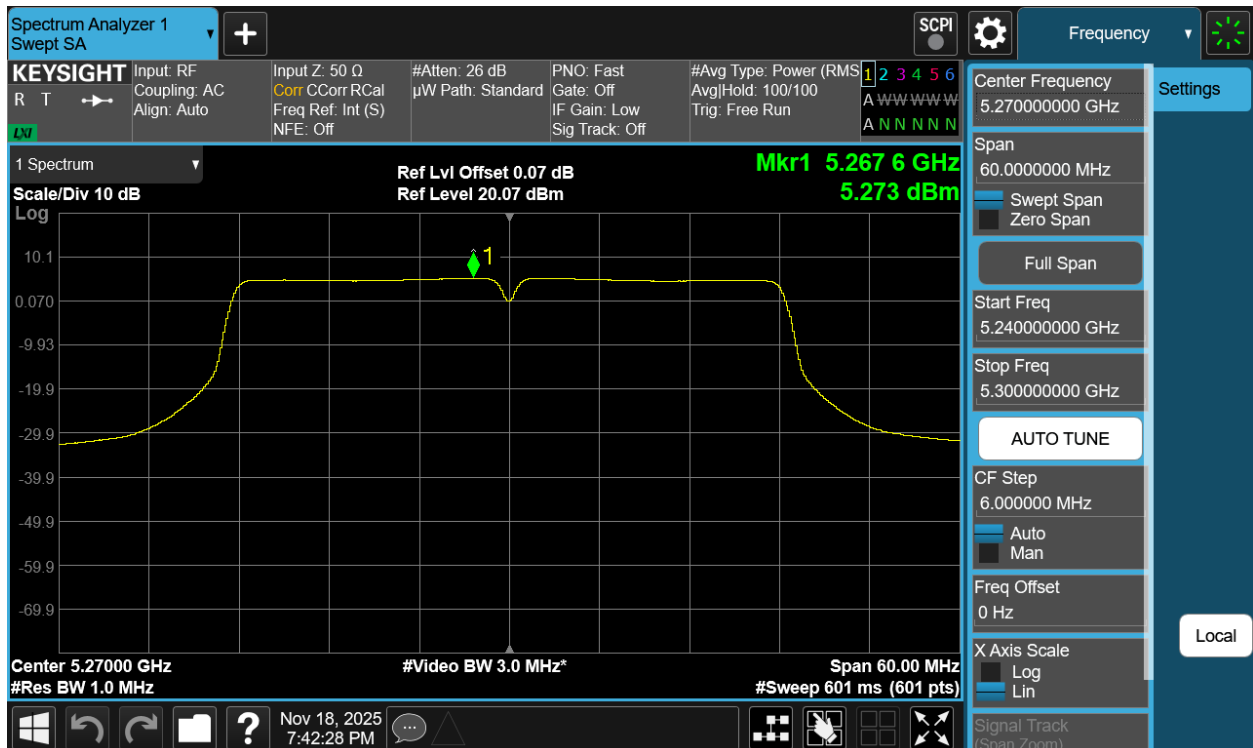
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 54 of 169

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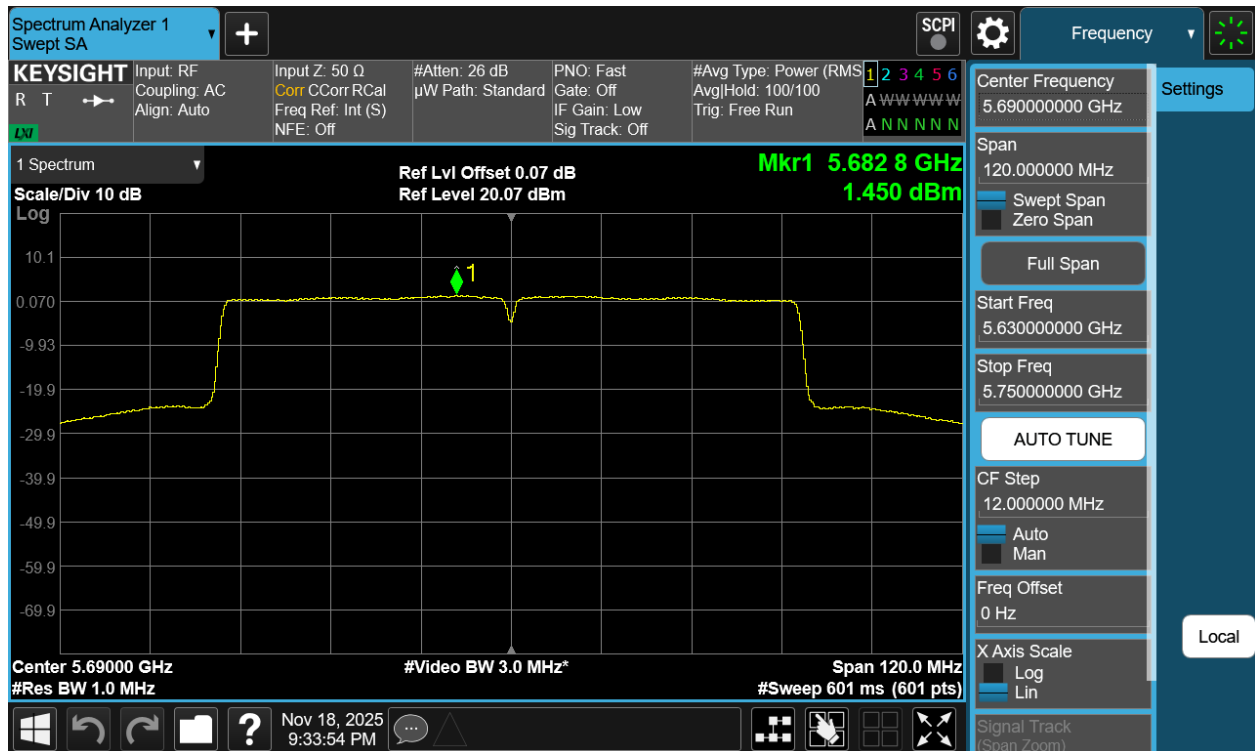


Plot 7-15 PSD Antenna WF8 (20MHz BW 802.11a - Ch.48)



Plot 7-16 PSD Antenna WF8 (40MHz BW 802.11n - Ch.54)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 55 of 169



Plot 7-17 PSD Antenna WF8 (80MHz BW 802.11ac - Ch.138)



Plot 7-18 PSD Antenna WF8 (160MHz BW 802.11ac - Ch.50)

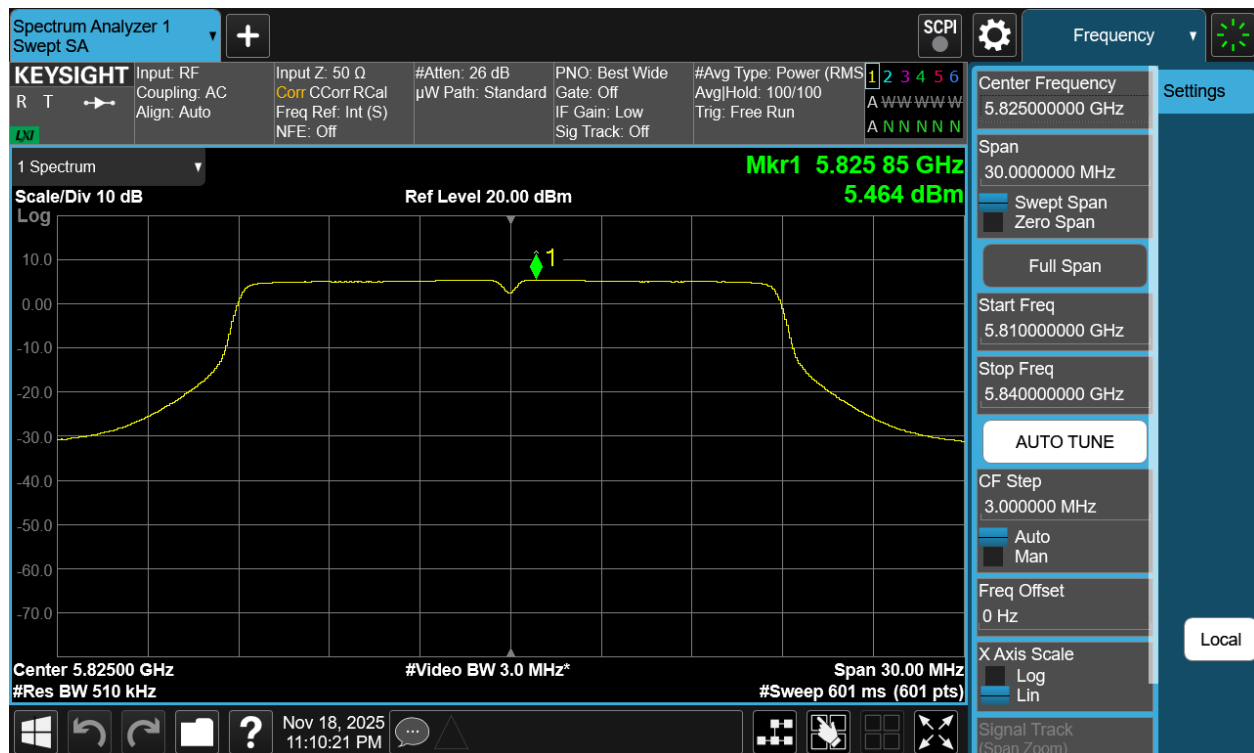
FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 56 of 169

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	18Mbps	5.29	30.0	-24.7
	5785	157	a	18Mbps	5.32	30.0	-24.7
	5825	165	a	36Mbps	5.24	30.0	-24.8
	5745	149	n (20MHz)	MCS3	4.78	30.0	-25.22
	5785	157	n (20MHz)	MCS5	5.10	30.0	-24.90
	5825	165	n (20MHz)	MCS3	5.46	30.0	-24.54
	5745	149	be (SU) (20MHz)	MCS5	4.81	30.0	-25.19
	5785	157	be (SU) (20MHz)	MCS5	4.85	30.0	-25.15
	5825	165	be (SU) (20MHz)	MCS5	4.76	30.0	-25.24
	5755	151	n (40MHz)	MCS5	1.47	30.0	-28.53
	5795	159	n (40MHz)	MCS5	2.01	30.0	-27.99
	5755	151	be (SU) (40MHz)	MCS0	1.28	30.0	-28.72
	5795	159	be (SU) (40MHz)	MCS0	1.30	30.0	-28.70
	5775	155	ac (80MHz)	MCS0	-3.49	30.0	-33.49
	5775	155	be (SU) (80MHz)	MCS0	-3.55	30.0	-33.55

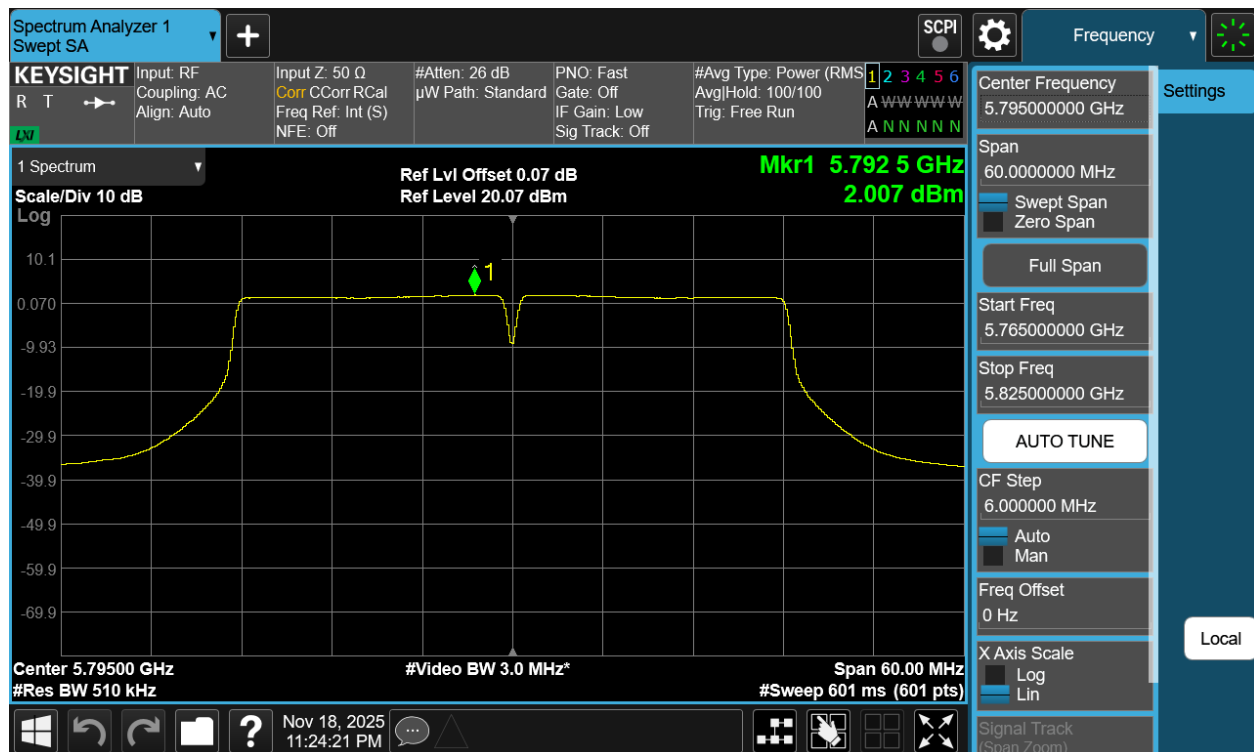
Table 7-63. Band 3 Power Spectral Density Measurements Antenna WF8

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 57 of 169

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Plot 7-19 PSD Antenna WF8 (20MHz BW 802.11n - Ch.165)

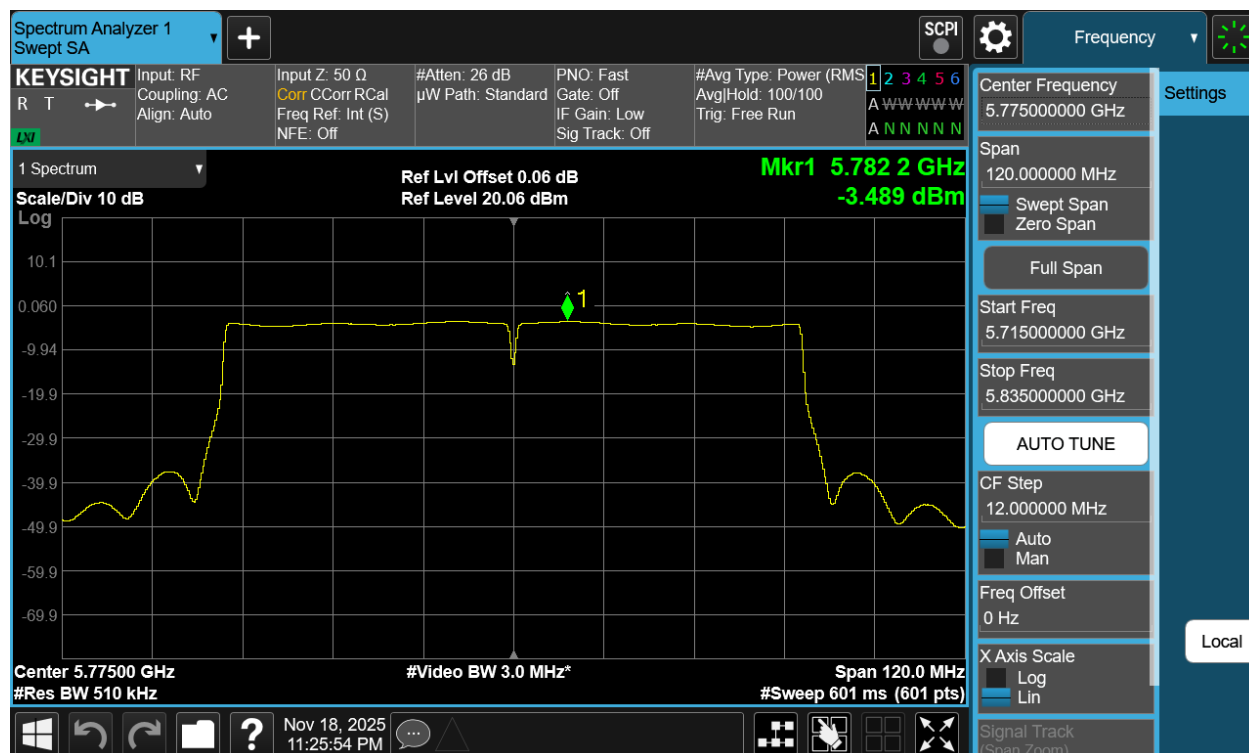


Plot 7-20 PSD Antenna WF8 (40MHz BW 802.11n - Ch.159)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 58 of 169

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Plot 7-21 PSD Antenna WF8 (80MHz BW 802.11ac - Ch.155)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 59 of 169

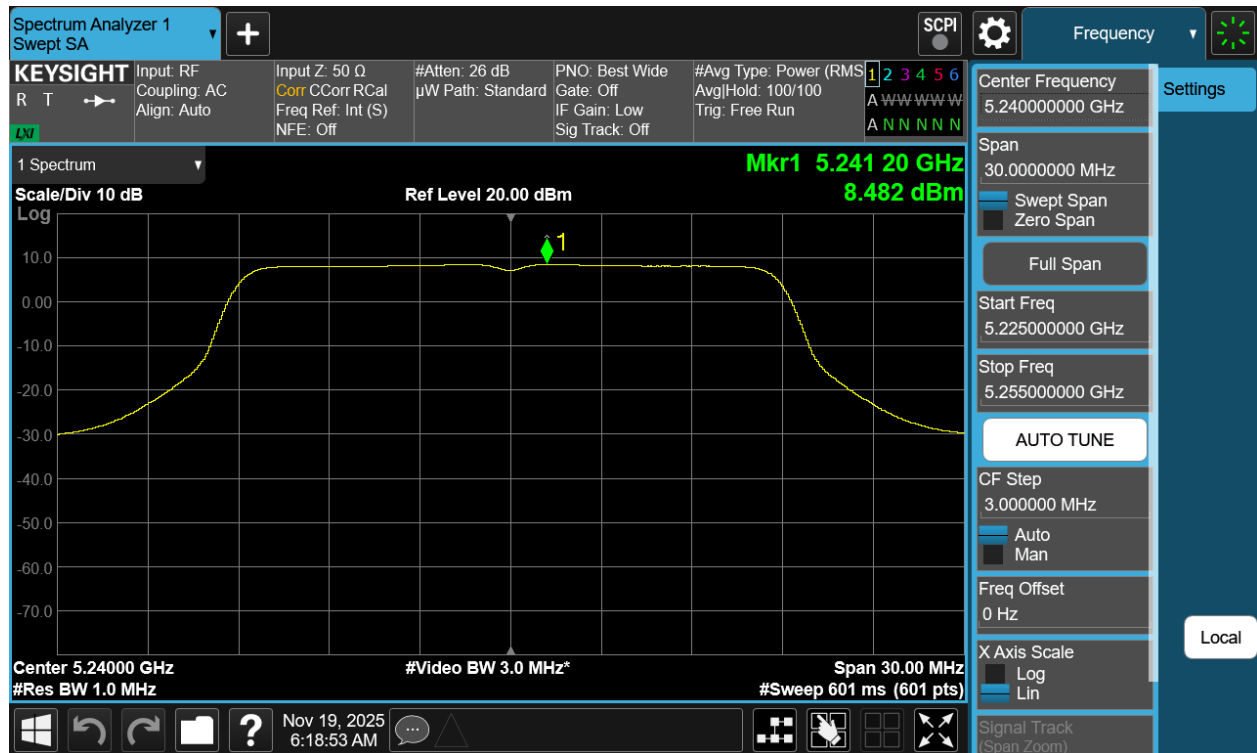
V 11.0 05/2025

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6Mbps	6.29	-0.20	6.09	10.0	-3.91
	5200	40	a	18Mbps	8.47	-0.20	8.27	10.0	-1.73
	5240	48	a	18Mbps	8.48	-0.20	8.28	10.0	-1.72
	5180	36	n (20MHz)	MCS0	6.31	-0.20	6.11	10.0	-3.89
	5200	40	n (20MHz)	MCS3	8.10	-0.20	7.90	10.0	-2.10
	5240	48	n (20MHz)	MCS5	8.09	-0.20	7.89	10.0	-2.11
	5180	36	be (SU) (20MHz)	MCS0	4.84	-0.20	4.64	10.0	-5.36
	5200	40	be (SU) (20MHz)	MCS3	7.85	-0.20	7.65	10.0	-2.35
	5240	48	be (SU) (20MHz)	MCS3	7.87	-0.20	7.67	10.0	-2.33
	5190	38	n (40MHz)	MCS0	0.63	-0.20	0.43	10.0	-9.57
	5230	46	n (40MHz)	MCS0	5.17	-0.20	4.97	10.0	-5.03
	5190	38	be (SU) (40MHz)	MCS0	-1.18	-0.20	-1.38	10.0	-11.38
	5230	46	be (SU) (40MHz)	MCS3	4.92	-0.20	4.72	10.0	-5.28
	5210	42	ac (80MHz)	MCS0	-4.38	-0.20	-4.58	10.0	-14.58
Band 1/2	5210	42	be (SU) (80MHz)	MCS0	-4.92	-0.20	-5.12	10.0	-15.12
	5250	50	ac (160MHz)	MCS0	-7.98	-0.20	-8.18	10.0	-18.18
	5250	50	be (SU) (160MHz)	MCS0	-8.13	-0.20	-8.33	10.0	-18.33

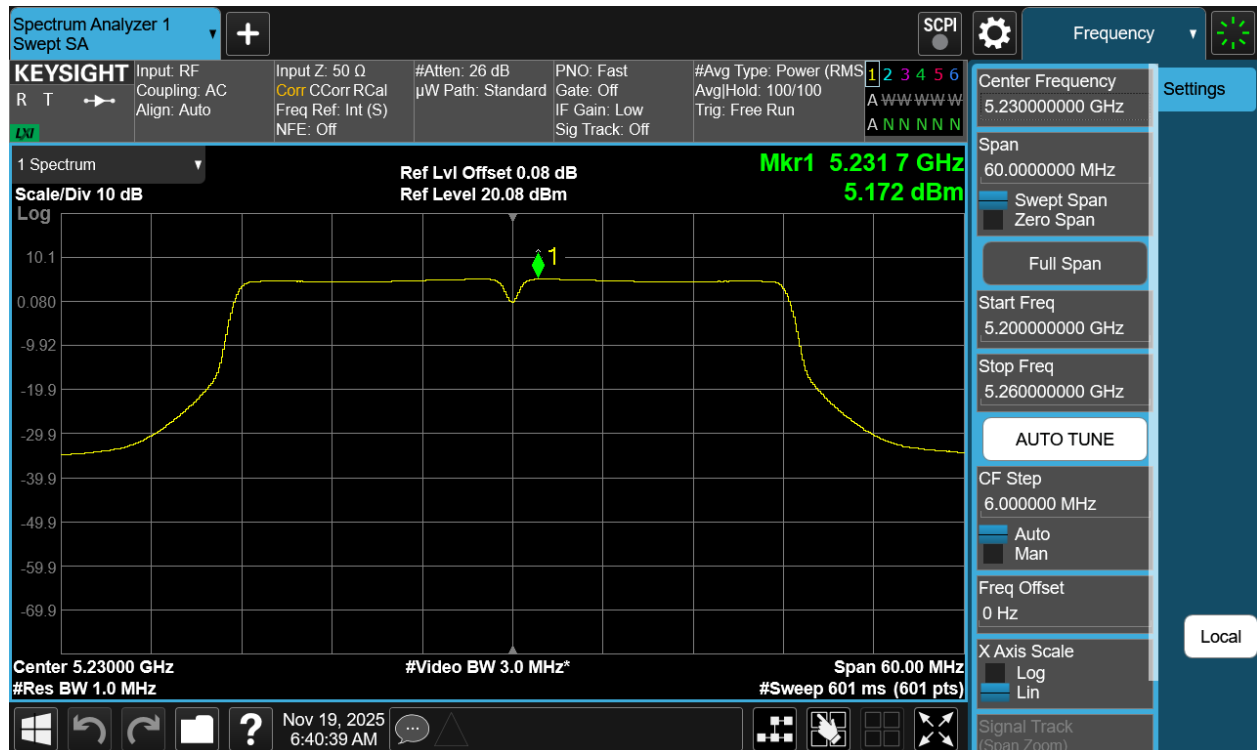
Table 7-64. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna WF8

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-22 PSD Antenna WF8 (20MHz BW 802.11a - Ch.48)

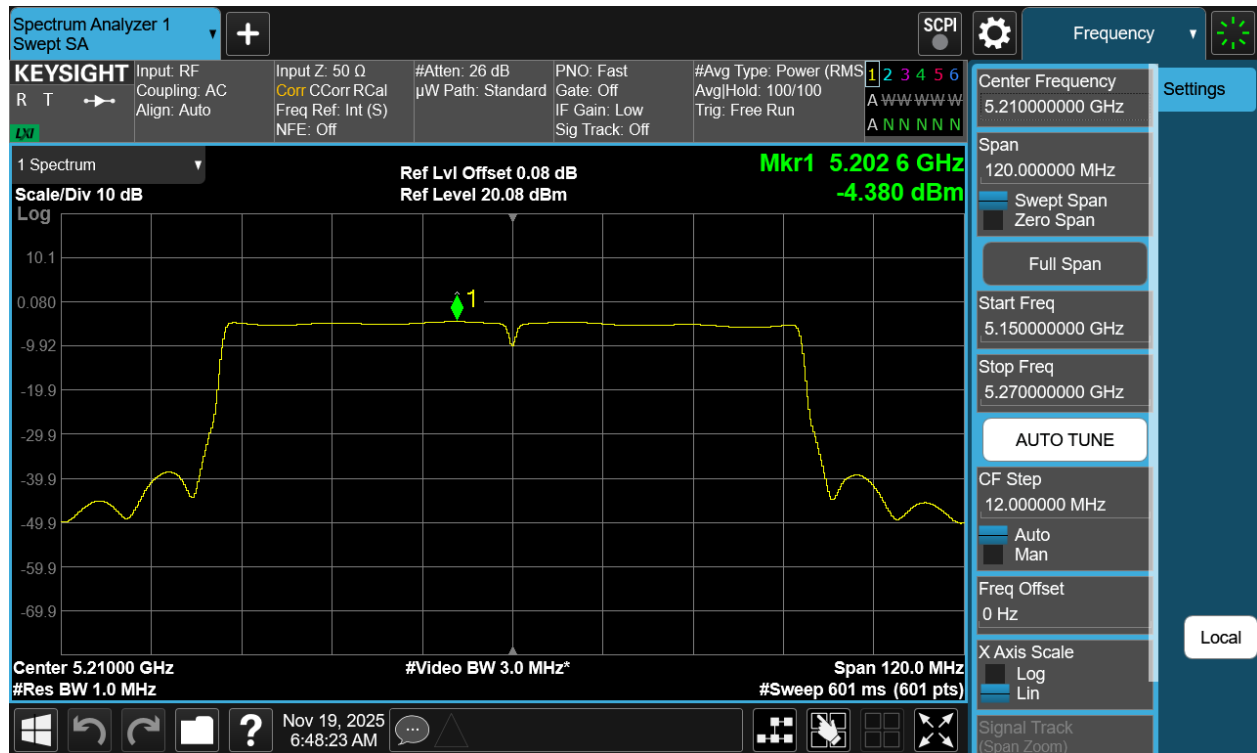


Plot 7-23 PSD Antenna WF8 (40MHz BW 802.11n - Ch.46)

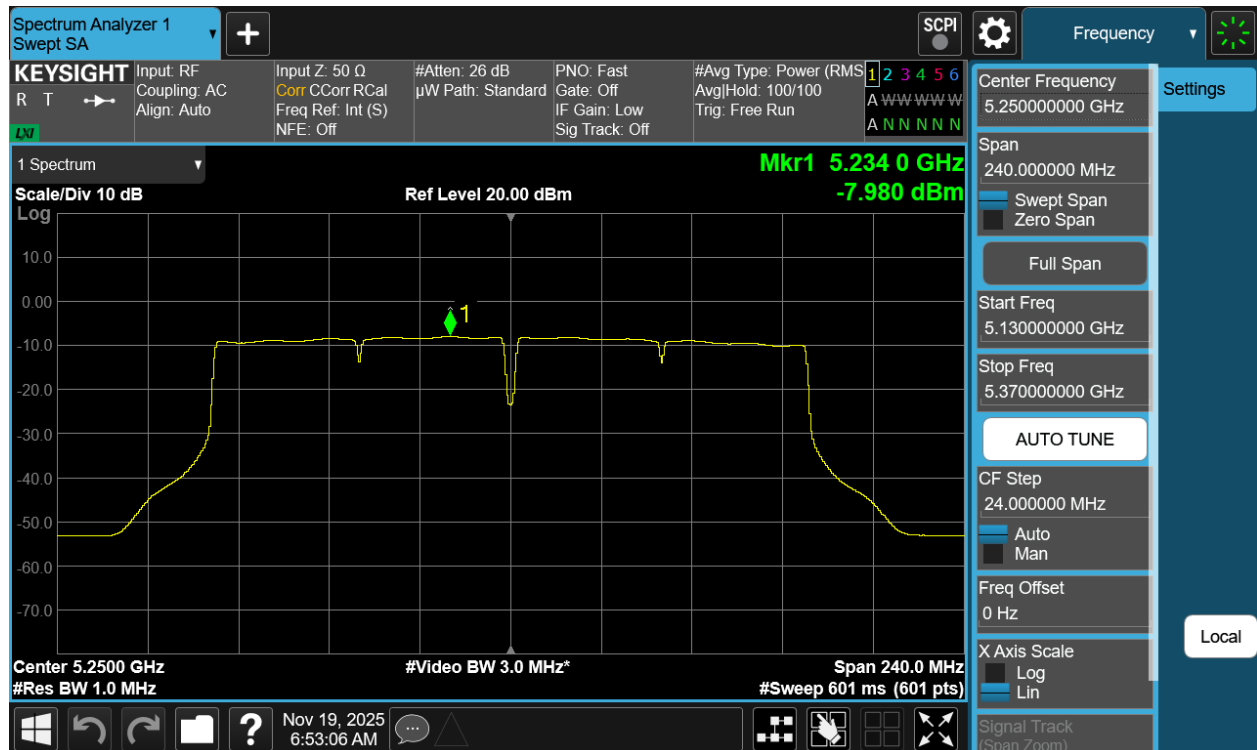
FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 61 of 169

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Plot 7-24 PSD Antenna WF8 (80MHz BW 802.11ac - Ch.42)



Plot 7-25 PSD Antenna WF8 (160MHz BW 802.11ac - Ch.50)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 62 of 169

7.5.2 Antenna WF7a Power Spectral Density Measurements

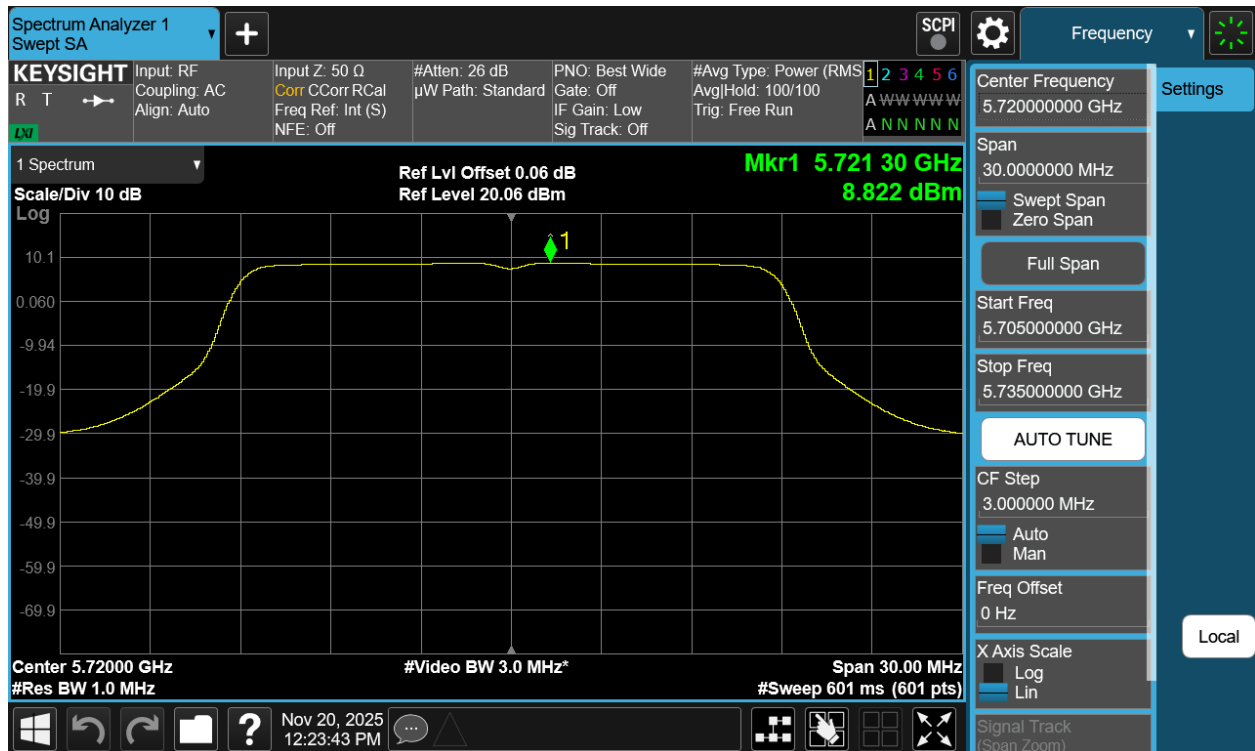
	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6Mbps	6.20	11.00	-4.81
	5200	40	a	36Mbps	8.37	11.00	-2.63
	5240	48	a	36Mbps	8.34	11.00	-2.66
	5180	36	n (20MHz)	MCS0	6.20	11.00	-4.80
	5200	40	n (20MHz)	MCS5	8.41	11.00	-2.59
	5240	48	n (20MHz)	MCS0	8.54	11.00	-2.46
	5180	36	be (SU) (20MHz)	MCS0	4.92	11.00	-6.08
	5200	40	be (SU) (20MHz)	MCS0	8.21	11.00	-2.79
	5240	48	be (SU) (20MHz)	MCS0	8.26	11.00	-2.74
	5190	38	n (40MHz)	MCS0	0.62	11.00	-10.38
	5230	46	n (40MHz)	MCS0	5.38	11.00	-5.62
	5190	38	be (SU) (40MHz)	MCS0	-1.24	11.00	-12.24
	5230	46	be (SU) (40MHz)	MCS0	5.22	11.00	-5.78
	5210	42	ac (80MHz)	MCS3	-4.48	11.00	-15.48
	5210	42	be (SU) (80MHz)	MCS0	-5.23	11.00	-16.23
Band 1/2	5250	50	ac (160MHz)	MCS3	-8.09	11.00	-19.09
	5250	50	be (SU) (160MHz)	MCS0	-8.13	11.00	-19.13
Band 2A	5260	52	a	18Mbps	8.34	11.00	-2.66
	5300	60	a	18Mbps	8.57	11.00	-2.43
	5320	64	a	6Mbps	6.33	11.00	-4.67
	5260	52	n (20MHz)	MCS5	8.14	11.00	-2.86
	5300	60	n (20MHz)	MCS5	8.37	11.00	-2.63
	5320	64	n (20MHz)	MCS0	6.32	11.00	-4.68
	5260	52	be (SU) (20MHz)	MCS3	7.89	11.00	-3.11
	5300	60	be (SU) (20MHz)	MCS3	8.10	11.00	-2.90
	5320	64	be (SU) (20MHz)	MCS0	4.98	11.00	-6.02
	5270	54	n (40MHz)	MCS0	5.00	11.00	-6.01
	5310	62	n (40MHz)	MCS0	1.56	11.00	-9.44
	5270	54	be (SU) (40MHz)	MCS3	4.82	11.00	-6.18
	5310	62	be (SU) (40MHz)	MCS5	0.36	11.00	-10.64
	5290	58	ac (80MHz)	MCS3	-3.22	11.00	-14.22
	5290	58	be (SU) (80MHz)	MCS3	-3.64	11.00	-14.64
Band 2C	5500	100	a	6Mbps	5.67	11.00	-5.33
	5580	116	a	18Mbps	8.21	11.00	-2.79
	5720	144	a	18Mbps	8.82	11.00	-2.18
	5500	100	n (20MHz)	MCS0	5.66	11.00	-5.34
	5580	116	n (20MHz)	MCS5	8.21	11.00	-2.79
	5720	144	n (20MHz)	MCS5	8.35	11.00	-2.65
	5500	100	be (SU) (20MHz)	MCS0	5.07	11.00	-5.94
	5580	116	be (SU) (20MHz)	MCS3	7.99	11.00	-3.01
	5720	144	be (SU) (20MHz)	MCS3	8.08	11.00	-2.92
	5510	102	n (40MHz)	MCS0	0.79	11.00	-10.21
	5550	110	n (40MHz)	MCS0	5.19	11.00	-5.81
	5590	118	n (40MHz)	MCS0	5.21	11.00	-5.79
	5670	134	n (40MHz)	MCS0	3.84	11.00	-7.17
	5710	142	n (40MHz)	MCS0	5.11	11.00	-5.89
	5510	102	be (SU) (40MHz)	MCS0	0.55	11.00	-10.45
	5550	110	be (SU) (40MHz)	MCS3	4.95	11.00	-6.05
	5710	142	be (SU) (40MHz)	MCS3	4.86	11.00	-6.14
	5530	106	ac (80MHz)	MCS0	-3.70	11.00	-14.70
	5610	122	ac (80MHz)	MCS0	1.63	11.00	-9.37
	5690	138	ac (80MHz)	MCS0	1.86	11.00	-9.14
	5530	106	be (SU) (80MHz)	MCS0	-4.21	11.00	-15.21
	5610	122	be (SU) (80MHz)	MCS0	1.60	11.00	-9.40
	5690	138	be (SU) (80MHz)	MCS0	1.82	11.00	-9.18
	5570	114	ac (160MHz)	MCS0	-7.98	11.00	-18.98
	5570	114	be (SU) (160MHz)	MCS0	-8.16	11.00	-19.16

Table 7-65. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna WF7a

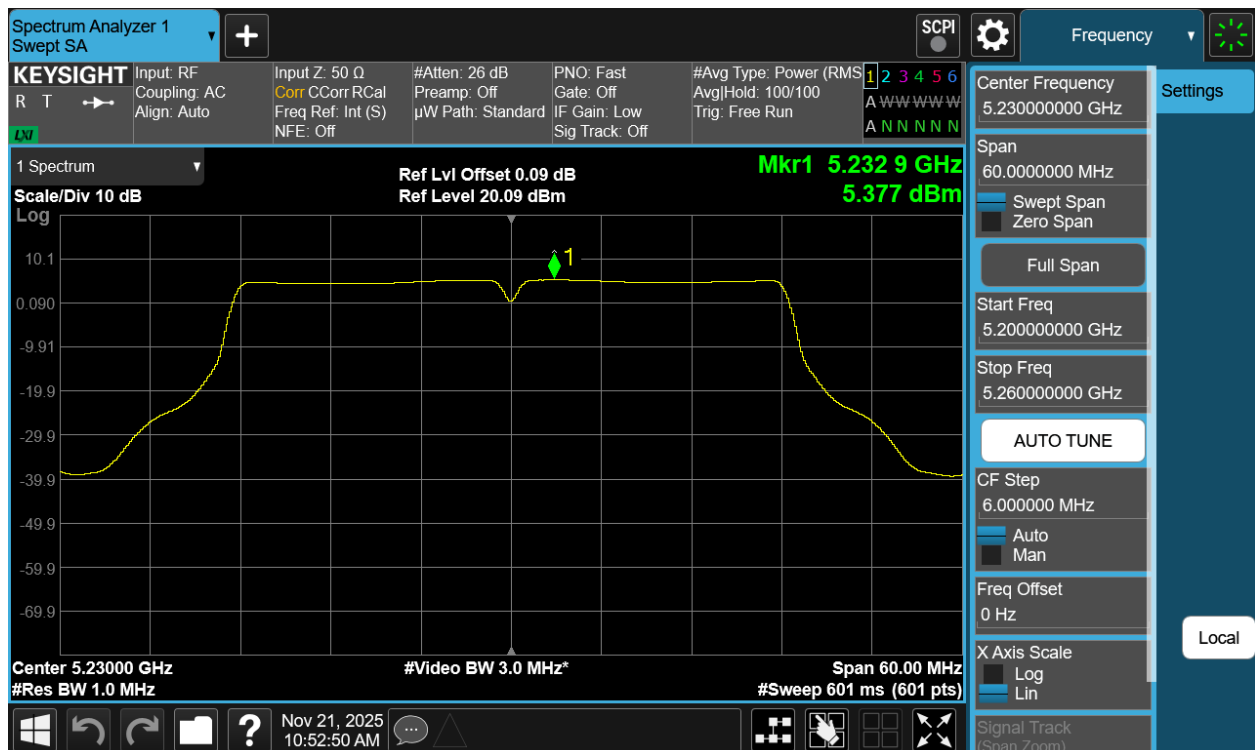
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 63 of 169

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Plot 7-26 PSD Antenna WF7a (20MHz BW 802.11a - Ch.144)

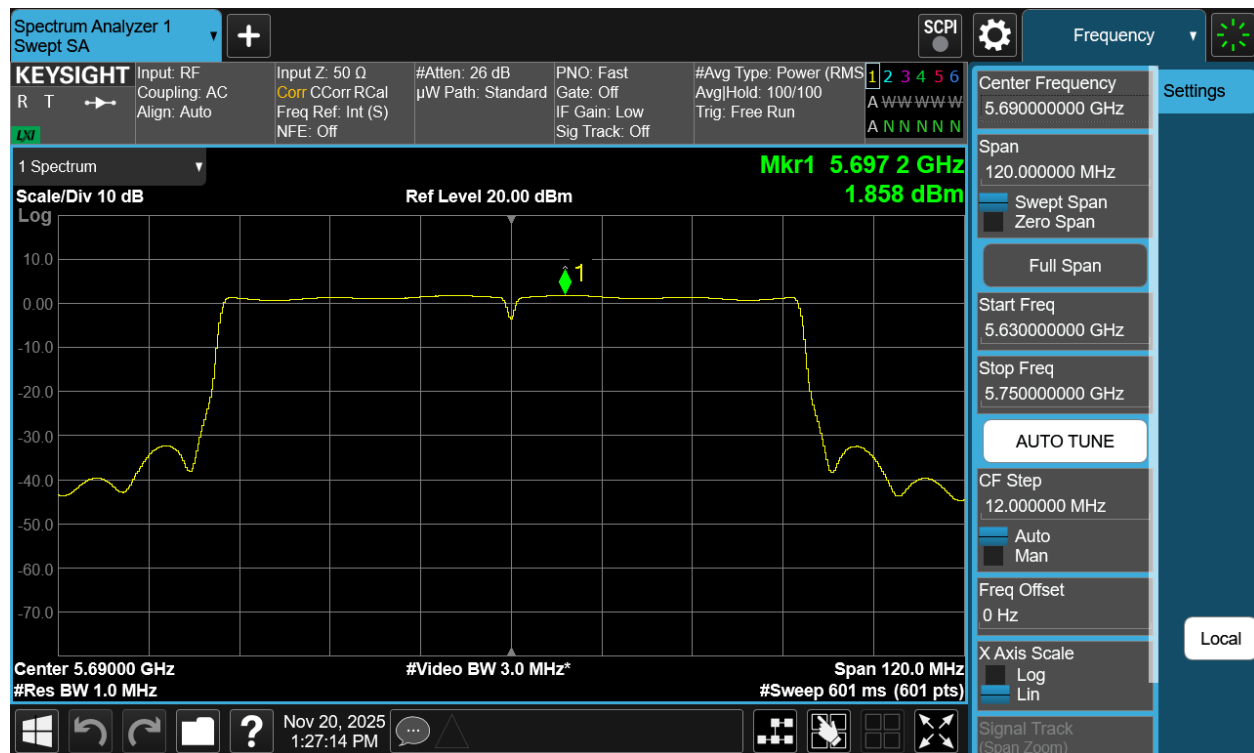


Plot 7-27 PSD Antenna WF7a (40MHz BW 802.11n - Ch.46)

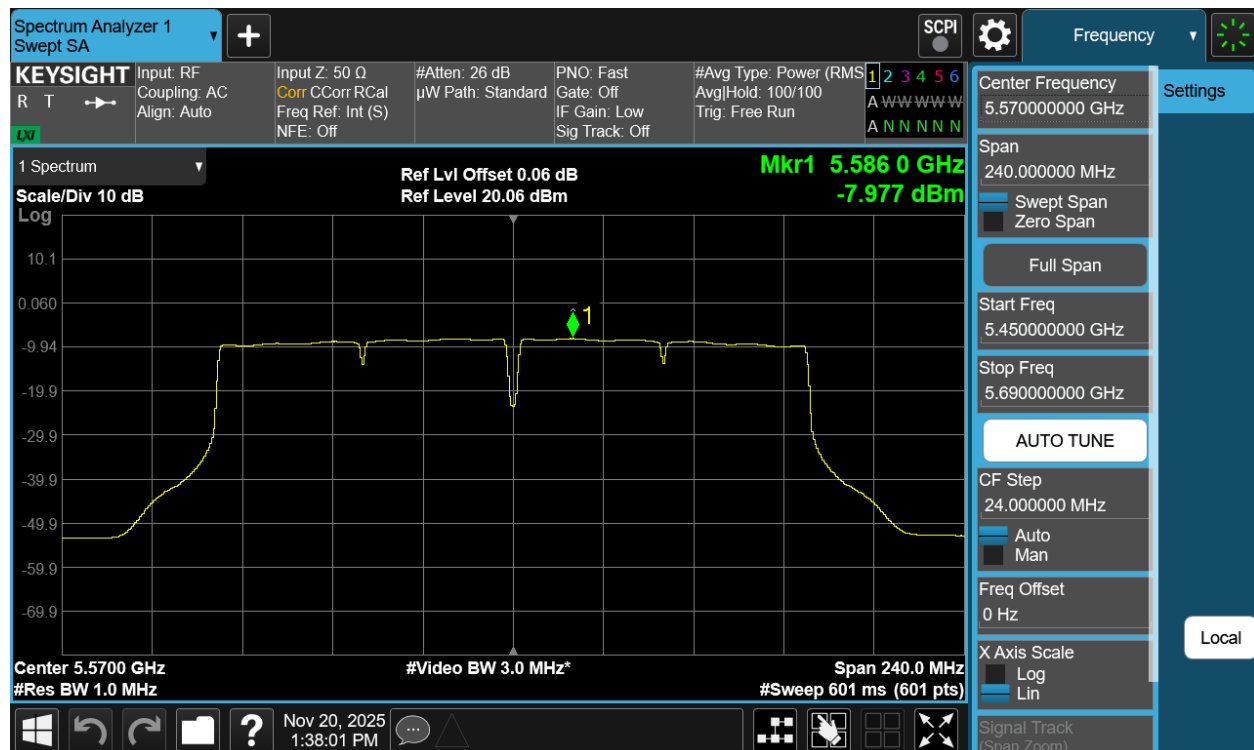
FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 64 of 169

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Plot 7-28 PSD Antenna WF7a (80MHz BW 802.11ac - Ch.138)



Plot 7-29 PSD Antenna WF7a (160MHz BW 802.11ac - Ch.114)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 65 of 169

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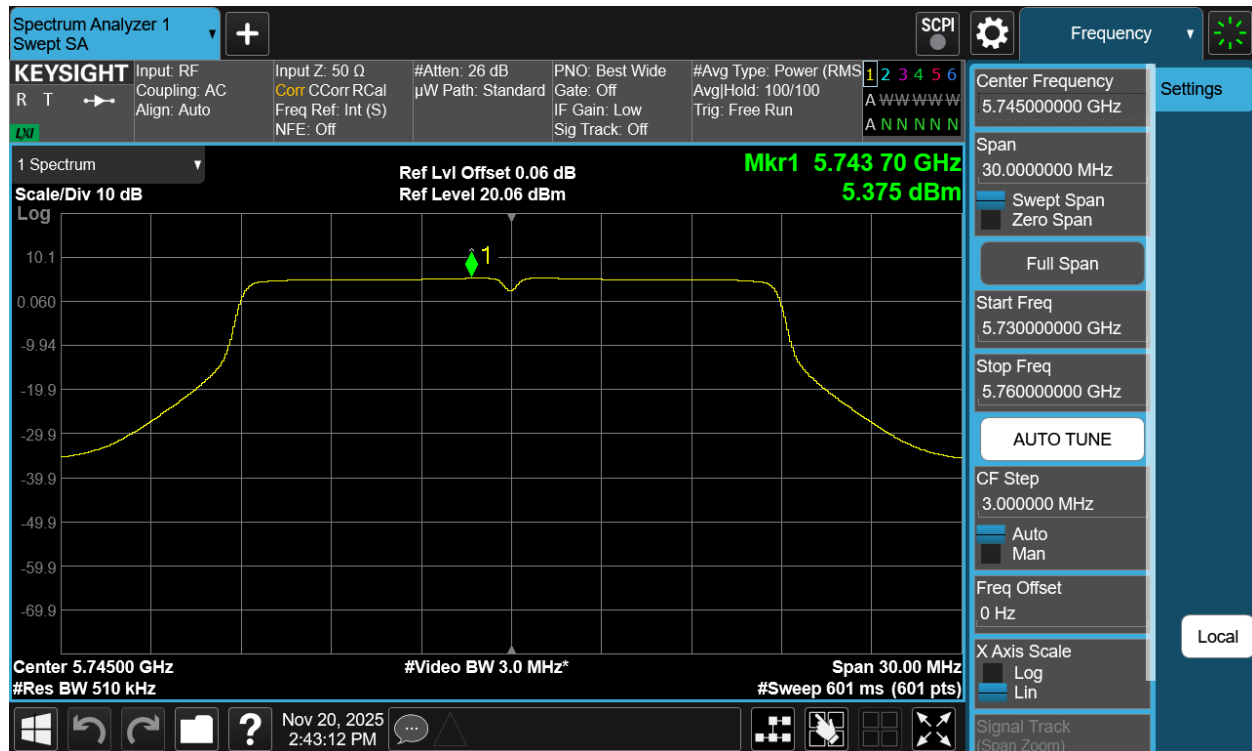
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	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	18Mbps	5.38	30.0	-24.6
	5785	157	a	36Mbps	5.28	30.0	-24.7
	5825	165	a	18Mbps	5.35	30.0	-24.7
	5745	149	n (20MHz)	MCS0	5.36	30.0	-24.64
	5785	157	n (20MHz)	MCS5	5.00	30.0	-25.01
	5825	165	n (20MHz)	MCS5	5.14	30.0	-24.86
	5745	149	be (SU) (20MHz)	MCS3	5.08	30.0	-24.93
	5785	157	be (SU) (20MHz)	MCS3	4.99	30.0	-25.01
	5825	165	be (SU) (20MHz)	MCS3	4.85	30.0	-25.15
	5755	151	n (40MHz)	MCS0	1.90	30.0	-28.10
	5795	159	n (40MHz)	MCS3	1.88	30.0	-28.12
	5755	151	be (SU) (40MHz)	MCS5	1.69	30.0	-28.32
	5795	159	be (SU) (40MHz)	MCS3	1.66	30.0	-28.34
	5775	155	ac (80MHz)	MCS0	-3.18	30.0	-33.18
	5775	155	be (SU) (80MHz)	MCS0	-3.20	30.0	-33.20

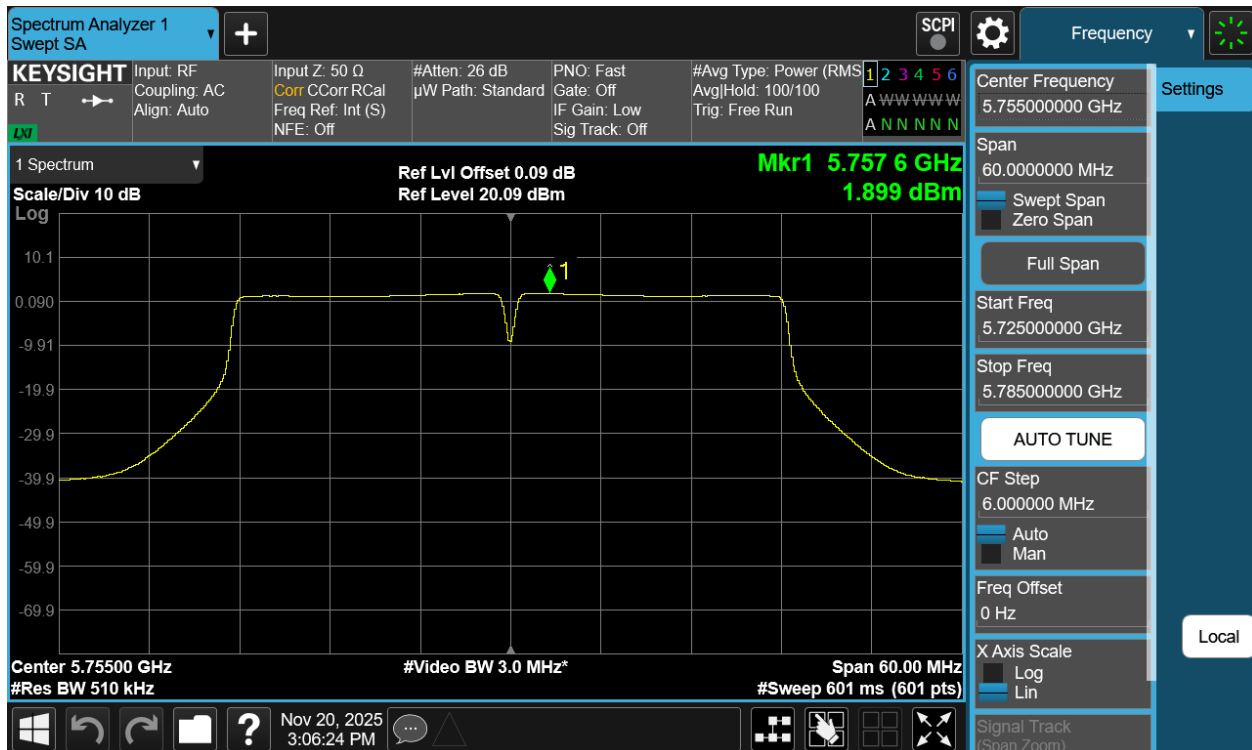
Table 7-66. Band 3 Power Spectral Density Measurements Antenna WF7a

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 66 of 169

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Plot 7-30 PSD Antenna WF7a (20MHz BW 802.11a - Ch.149)



Plot 7-31 PSD Antenna WF7a (40MHz BW 802.11n - Ch.151)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 67 of 169



Plot 7-32 PSD Antenna WF7a (80MHz BW 802.11ac - Ch.155)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 68 of 169

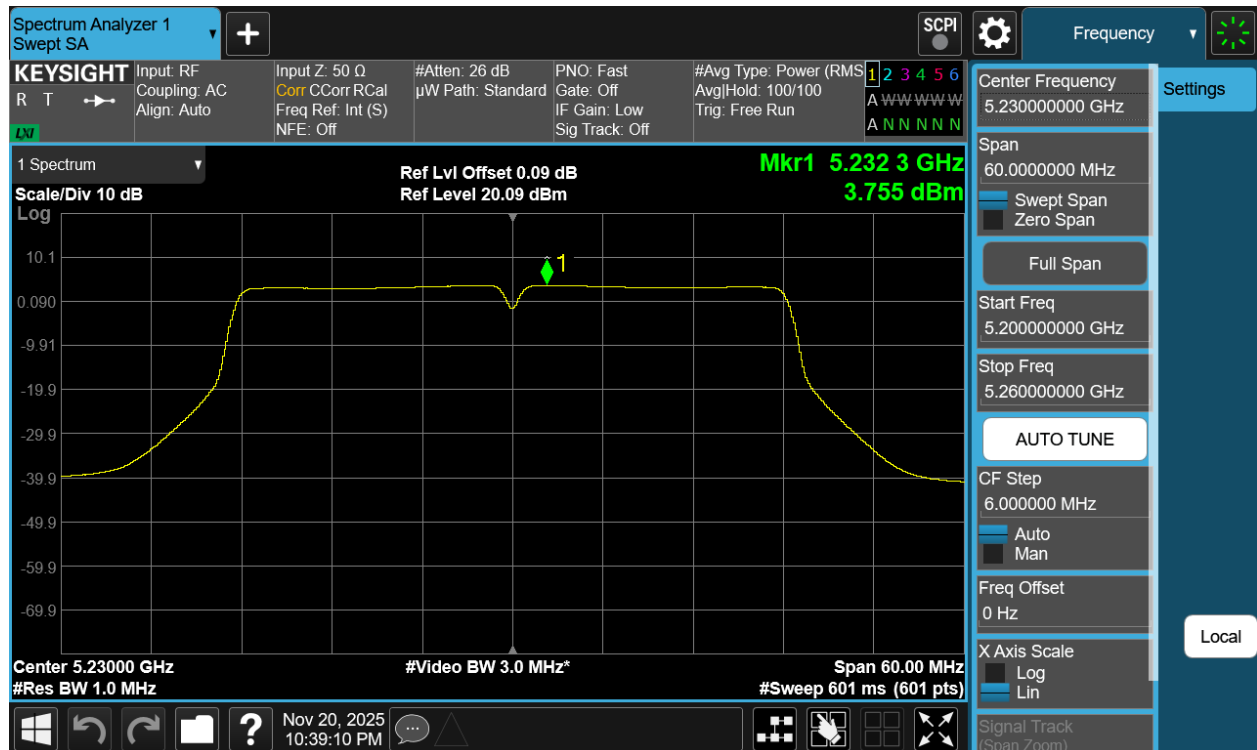
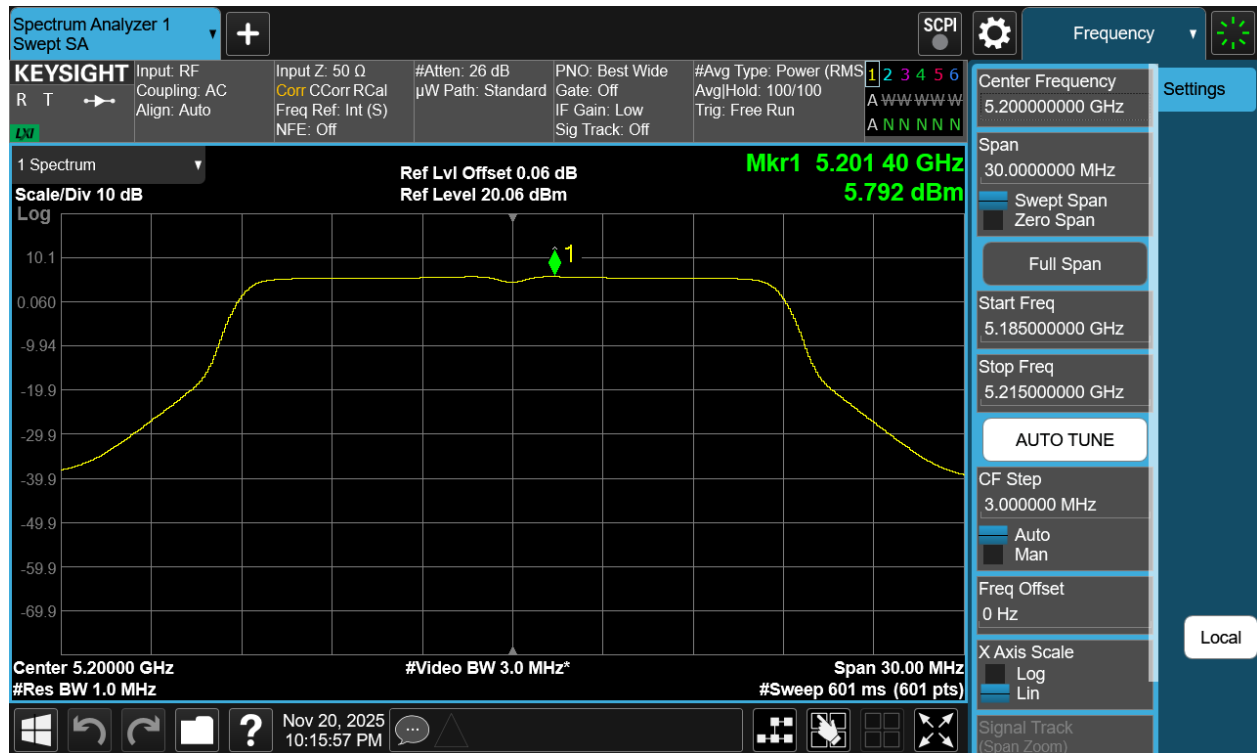
V 11.0 05/2025

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	18Mbps	4.57	2.90	7.47	10.0	-2.53
	5200	40	a	18Mbps	5.79	2.90	8.69	10.0	-1.31
	5240	48	a	18Mbps	5.49	2.90	8.39	10.0	-1.61
	5180	36	n (20MHz)	MCS0	4.31	2.90	7.21	10.0	-2.79
	5200	40	n (20MHz)	MCS3	5.47	2.90	8.37	10.0	-1.63
	5240	48	n (20MHz)	MCS0	5.45	2.90	8.35	10.0	-1.65
	5180	36	be (SU) (20MHz)	MCS3	4.11	2.90	7.01	10.0	-2.99
	5200	40	be (SU) (20MHz)	MCS3	5.23	2.90	8.13	10.0	-1.87
	5240	48	be (SU) (20MHz)	MCS3	4.93	2.90	7.83	10.0	-2.17
	5190	38	n (40MHz)	MCS0	0.62	2.90	3.52	10.0	-6.48
	5230	46	n (40MHz)	MCS0	3.76	2.90	6.66	10.0	-3.35
	5190	38	be (SU) (40MHz)	MCS0	-0.80	2.90	2.10	10.0	-7.90
	5230	46	be (SU) (40MHz)	MCS5	3.57	2.90	6.47	10.0	-3.53
	5210	42	ac (80MHz)	MCS3	-4.57	2.90	-1.67	10.0	-11.67
	5210	42	be (SU) (80MHz)	MCS0	-5.28	2.90	-2.38	10.0	-12.38
Band 1/2	5250	50	ac (160MHz)	MCS3	-8.43	2.90	-5.53	10.0	-15.53
	5250	50	be (SU) (160MHz)	MCS0	-8.45	2.90	-5.55	10.0	-15.55

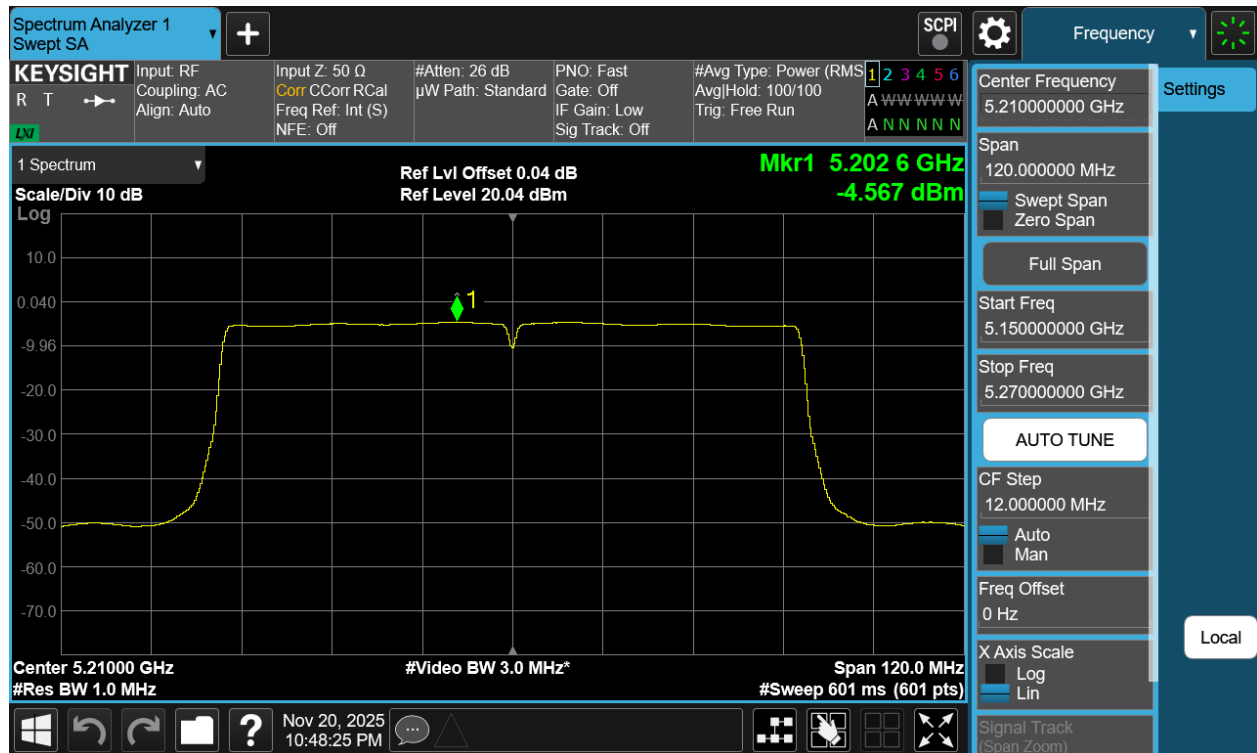
Table 7-67. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna WF7a

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 69 of 169

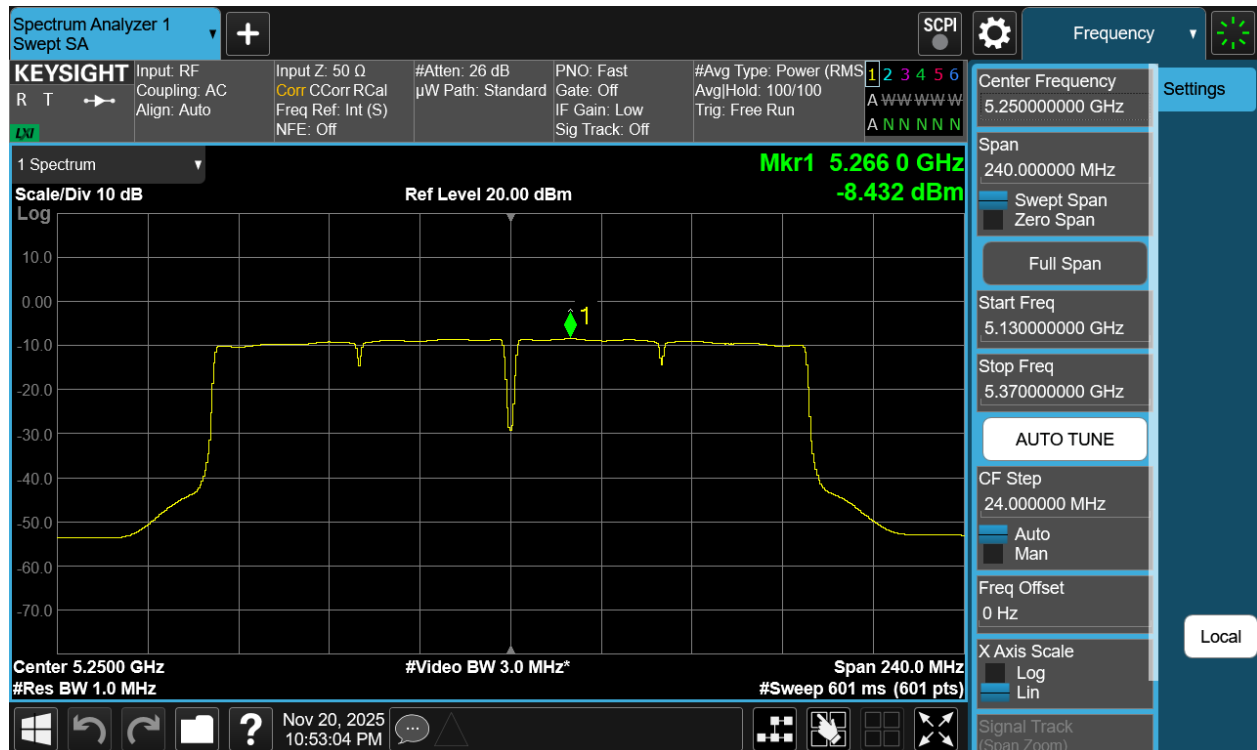
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FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 70 of 169



Plot 7-35 PSD Antenna WF7a (80MHz BW 802.11ac - Ch.42)



Plot 7-36 PSD Antenna WF7a (160MHz BW 802.11ac - Ch.50)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 71 of 169

7.5.3 Summed CDD/SDM Power Spectral Density Measurements

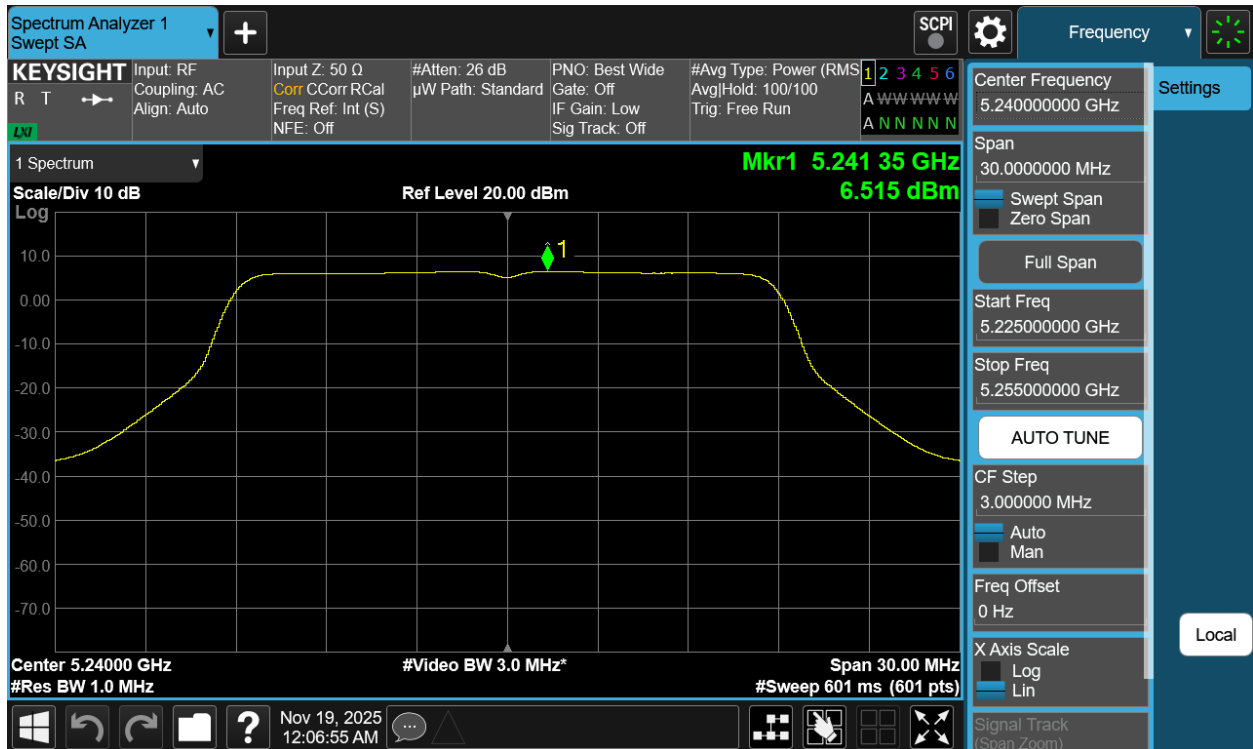
	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate	Antenna WF8 Power Density [dBm/MHz]	Antenna WF7a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	CDD	18Mbps	4.20	4.30	7.26	11.00	-3.74
	5200	40	a	CDD	18Mbps	5.96	6.26	9.12	11.00	-1.88
	5240	48	a	CDD	18Mbps	6.52	6.62	9.58	11.00	-1.42
	5180	36	n (20MHz)	CDD	MCS0	4.21	4.37	7.30	11.00	-3.70
	5200	40	n (20MHz)	CDD	MCS0	5.95	6.32	9.15	11.00	-1.85
	5240	48	n (20MHz)	CDD	MCS0	5.98	6.26	9.13	11.00	-1.87
	5180	36	be (SU) (20MHz)	CDD	MCS0	2.93	3.16	6.06	11.00	-4.94
	5200	40	be (SU) (20MHz)	CDD	MCS5	5.77	5.99	8.89	11.00	-2.11
	5240	48	be (SU) (20MHz)	CDD	MCS3	5.49	6.23	8.89	11.00	-2.11
	5190	38	n (40MHz)	CDD	MCS0	-0.77	-0.36	2.45	11.00	-8.55
	5230	46	n (40MHz)	CDD	MCS0	4.23	3.98	7.12	11.00	-3.88
	5190	38	be (SU) (40MHz)	CDD	MCS0	-2.43	-2.42	0.59	11.00	-10.41
Band 1/2	5230	46	be (SU) (40MHz)	CDD	MCS0	4.03	3.81	6.93	11.00	-4.07
	5210	42	ac (80MHz)	CDD	MCS0	-6.54	-6.14	-3.32	11.00	-14.32
Band 2A	5210	42	be (SU) (80MHz)	CDD	MCS0	-6.50	-6.72	-3.60	11.00	-14.60
	5250	50	ac (160MHz)	CDD	MCS0	-9.57	-9.74	-6.64	11.00	-17.64
	5250	50	be (SU) (160MHz)	CDD	MCS0	-9.69	-9.91	-6.78	11.00	-17.78
	5260	52	a	CDD	36Mbps	6.08	6.16	9.13	11.00	-1.87
	5300	60	a	CDD	18Mbps	6.42	6.35	9.39	11.00	-1.61
	5320	64	a	CDD	6Mbps	4.66	4.51	7.59	11.00	-3.41
	5260	52	n (20MHz)	CDD	MCS5	6.02	6.17	9.10	11.00	-1.90
	5300	60	n (20MHz)	CDD	MCS0	5.95	6.44	9.21	11.00	-1.79
	5320	64	n (20MHz)	CDD	MCS0	4.59	5.05	7.84	11.00	-3.16
	5260	52	be (SU) (20MHz)	CDD	MCS5	5.84	5.90	8.88	11.00	-2.12
	5300	60	be (SU) (20MHz)	CDD	MCS0	5.75	6.12	8.95	11.00	-2.05
	5320	64	be (SU) (20MHz)	CDD	MCS0	4.05	4.25	7.16	11.00	-3.84
	5270	54	n (40MHz)	CDD	MCS0	4.86	4.73	7.80	11.00	-3.20
	5310	62	n (40MHz)	CDD	MCS0	0.26	0.29	3.29	11.00	-7.71
	5270	54	be (SU) (40MHz)	CDD	MCS0	4.09	3.84	6.97	11.00	-4.03
	5310	62	be (SU) (40MHz)	CDD	MCS0	-0.34	-0.13	2.78	11.00	-8.22
	5290	58	ac (80MHz)	CDD	MCS0	-5.21	-4.79	-1.99	11.00	-12.99
	5290	58	be (SU) (80MHz)	CDD	MCS0	-5.15	-4.84	-1.98	11.00	-12.98
Band 2C	5500	100	a	CDD	18Mbps	3.09	3.39	6.25	11.00	-4.75
	5580	116	a	CDD	18Mbps	6.33	6.07	9.21	11.00	-1.79
	5720	144	a	CDD	18Mbps	6.03	6.11	9.08	11.00	-1.92
	5500	100	n (20MHz)	CDD	MCS0	2.60	2.95	5.79	11.00	-5.21
	5580	116	n (20MHz)	CDD	MCS5	5.82	6.12	8.98	11.00	-2.02
	5720	144	n (20MHz)	CDD	MCS5	5.58	6.16	8.89	11.00	-2.11
	5500	100	be (SU) (20MHz)	CDD	MCS0	2.35	2.67	5.52	11.00	-5.48
	5580	116	be (SU) (20MHz)	CDD	MCS5	5.86	5.86	8.87	11.00	-2.13
	5720	144	be (SU) (20MHz)	CDD	MCS5	5.40	5.90	8.67	11.00	-2.33
	5510	102	n (40MHz)	CDD	MCS0	-0.67	-0.79	2.28	11.00	-8.72
	5550	110	n (40MHz)	CDD	MCS0	3.31	3.62	6.48	11.00	-4.52
	5590	118	n (40MHz)	CDD	MCS0	4.67	4.89	7.79	11.00	-3.21
	5670	134	n (40MHz)	CDD	MCS0	2.44	2.86	5.67	11.00	-5.33
	5710	142	n (40MHz)	CDD	MCS0	4.47	4.83	7.66	11.00	-3.34
	5510	102	be (SU) (40MHz)	CDD	MCS0	-0.83	-0.90	2.14	11.00	-8.86
	5550	110	be (SU) (40MHz)	CDD	MCS0	2.66	2.94	5.81	11.00	-5.19
	5710	142	be (SU) (40MHz)	CDD	MCS5	4.33	4.40	7.37	11.00	-3.63
	5530	106	ac (80MHz)	CDD	MCS0	-4.94	-4.85	-1.88	11.00	-12.88
	5610	122	ac (80MHz)	CDD	MCS0	0.31	0.19	3.26	11.00	-7.74
	5690	138	ac (80MHz)	CDD	MCS0	1.37	1.39	4.39	11.00	-6.61
	5530	106	be (SU) (80MHz)	CDD	MCS0	-5.61	-5.59	-2.59	11.00	-13.59
	5610	122	be (SU) (80MHz)	CDD	MCS0	-0.61	-0.81	2.30	11.00	-8.70
	5690	138	be (SU) (80MHz)	CDD	MCS5	1.36	1.36	4.37	11.00	-6.63
	5570	114	ac (160MHz)	CDD	MCS0	-10.09	-9.54	-6.79	11.00	-17.79
	5570	114	be (SU) (160MHz)	CDD	MCS0	-10.19	-9.63	-6.89	11.00	-17.89

Table 7-68. Bands 1, 2A, 2C CDD Power Spectral Density Measurements

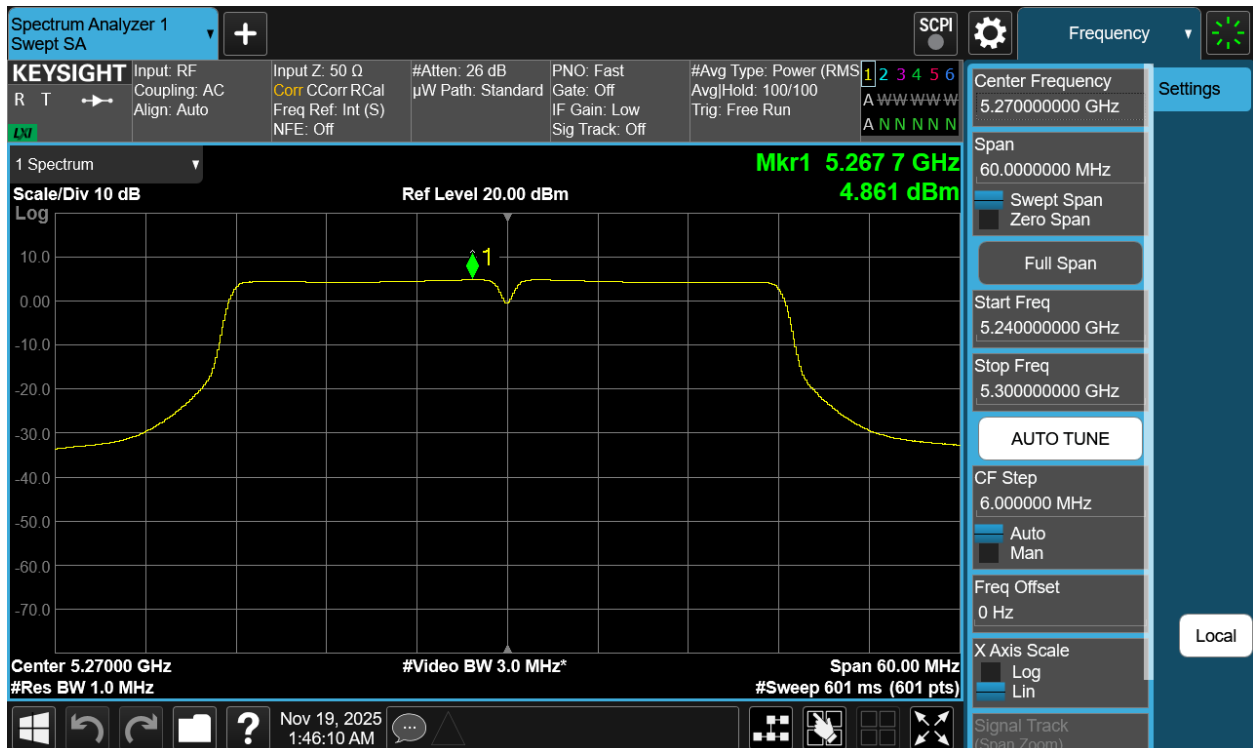
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 72 of 169

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Plot 7-37 PSD CDD Antenna WF8 (20MHz BW 802.11a - Ch.48)

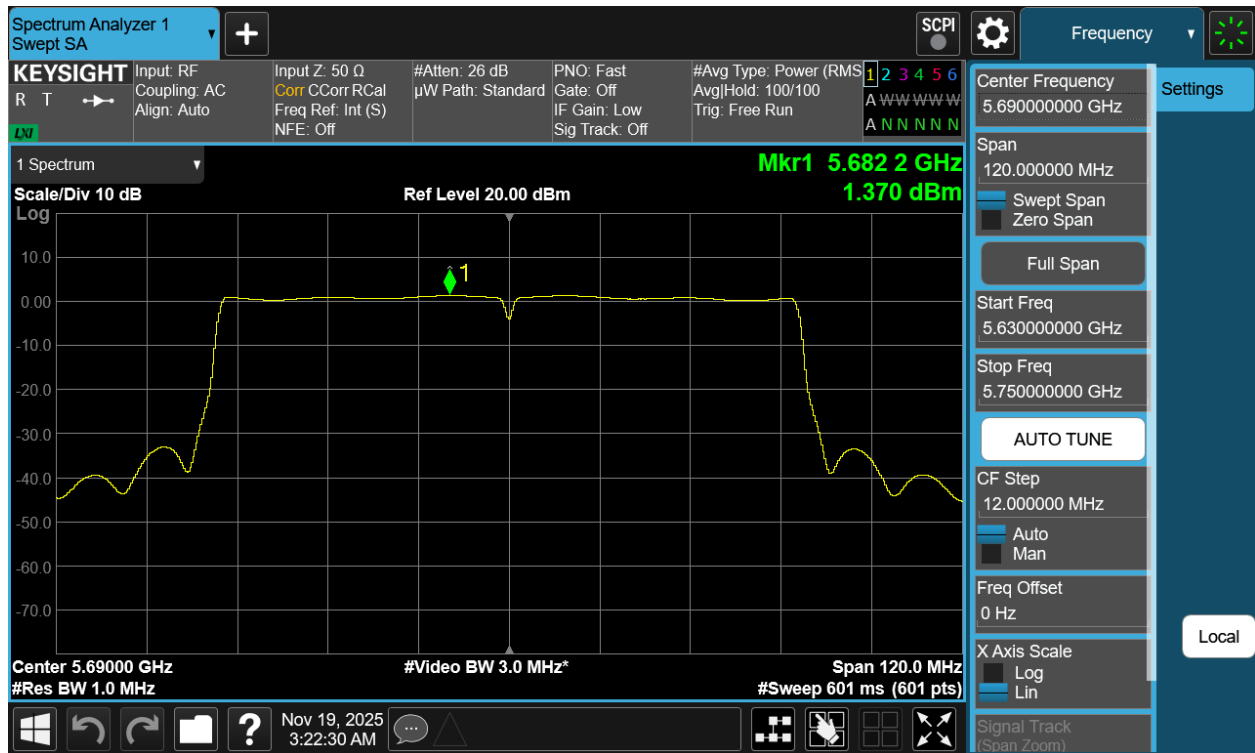


Plot 7-38 PSD CDD Antenna WF8 (40MHz BW 802.11n - Ch.54)

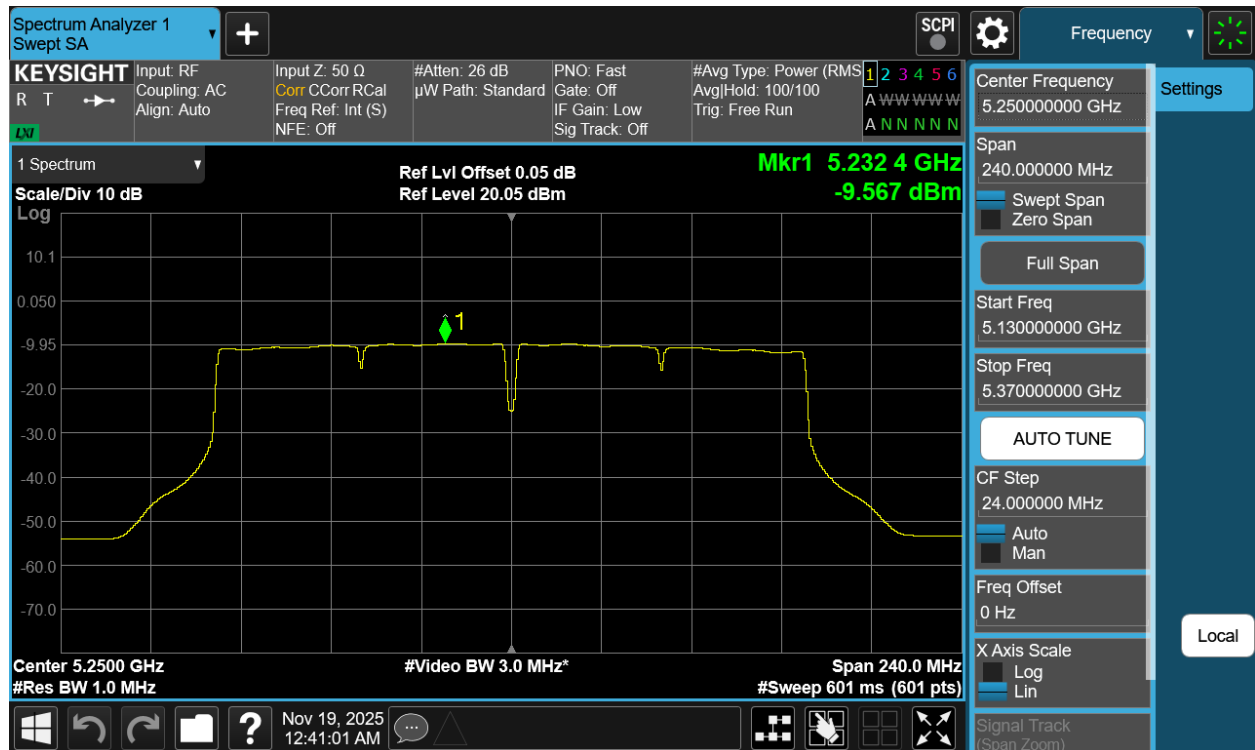
FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 73 of 169

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Plot 7-39 PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch.138)

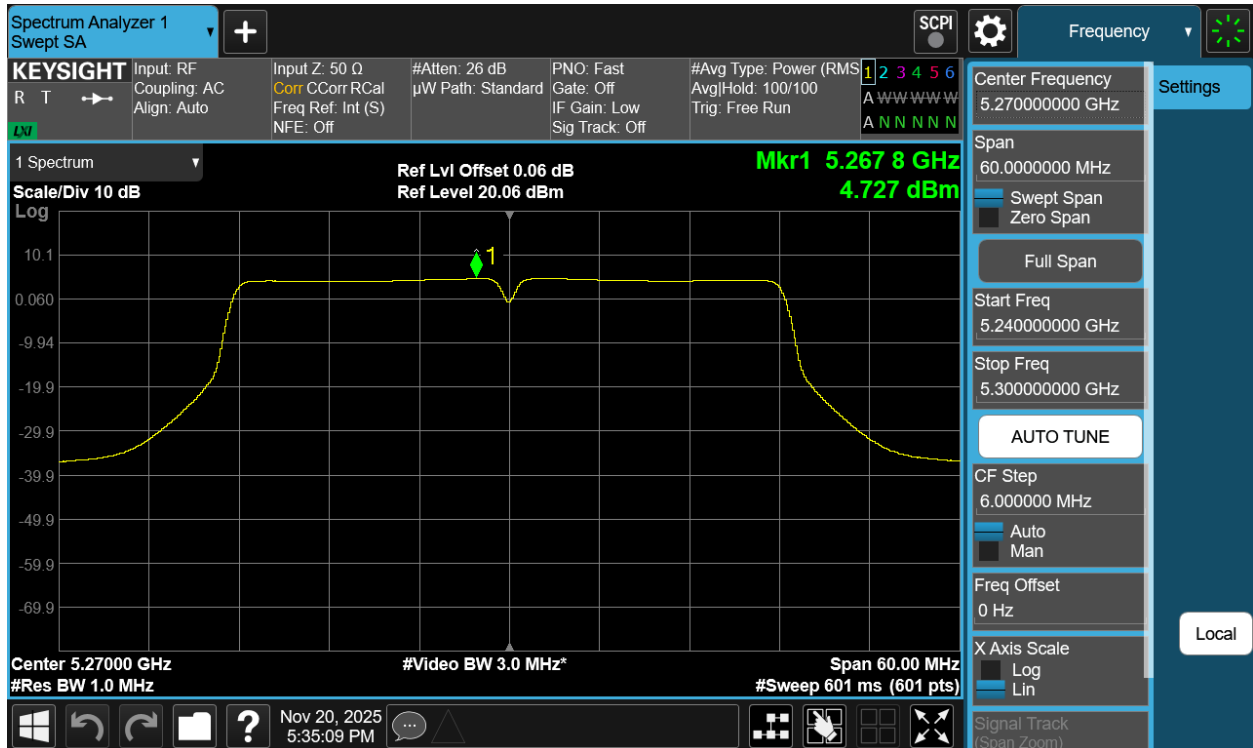


Plot 7-40 PSD CDD Antenna WF8 (160MHz BW 802.11ac - Ch.50)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 74 of 169

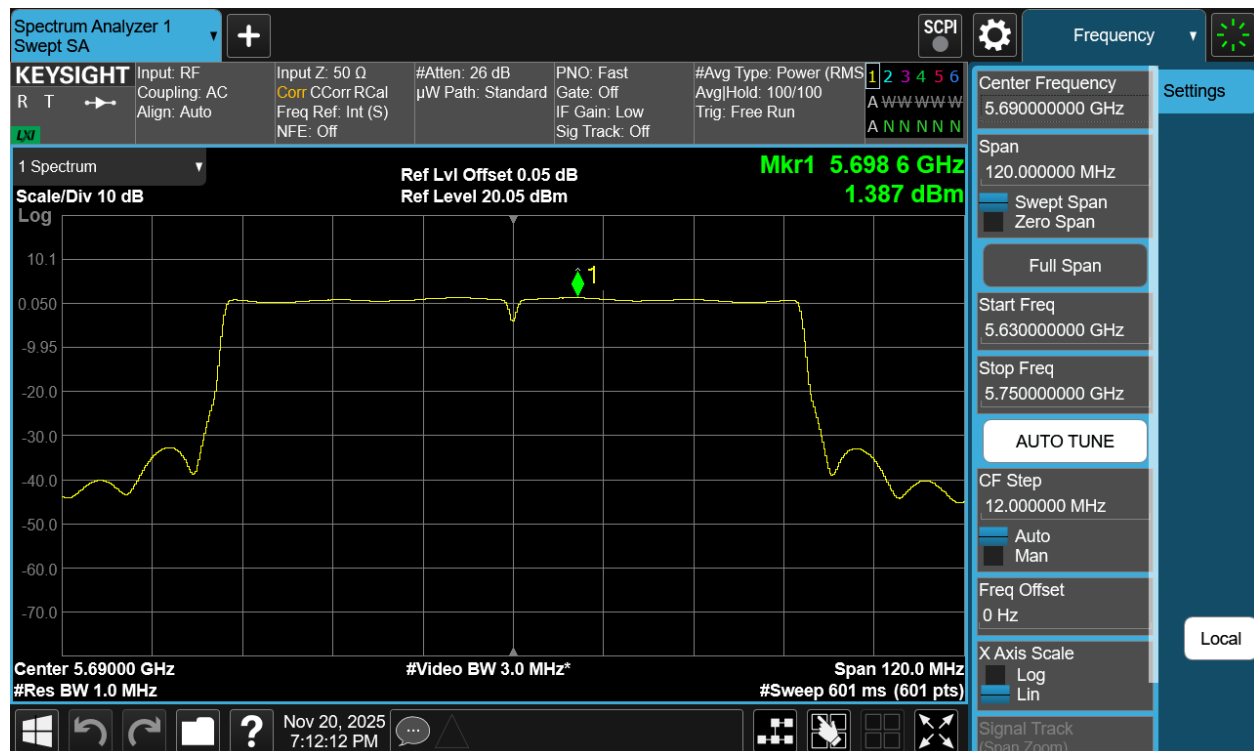


Plot 7-41 PSD CDD Antenna WF7a (20MHz BW 802.11a - Ch.48)

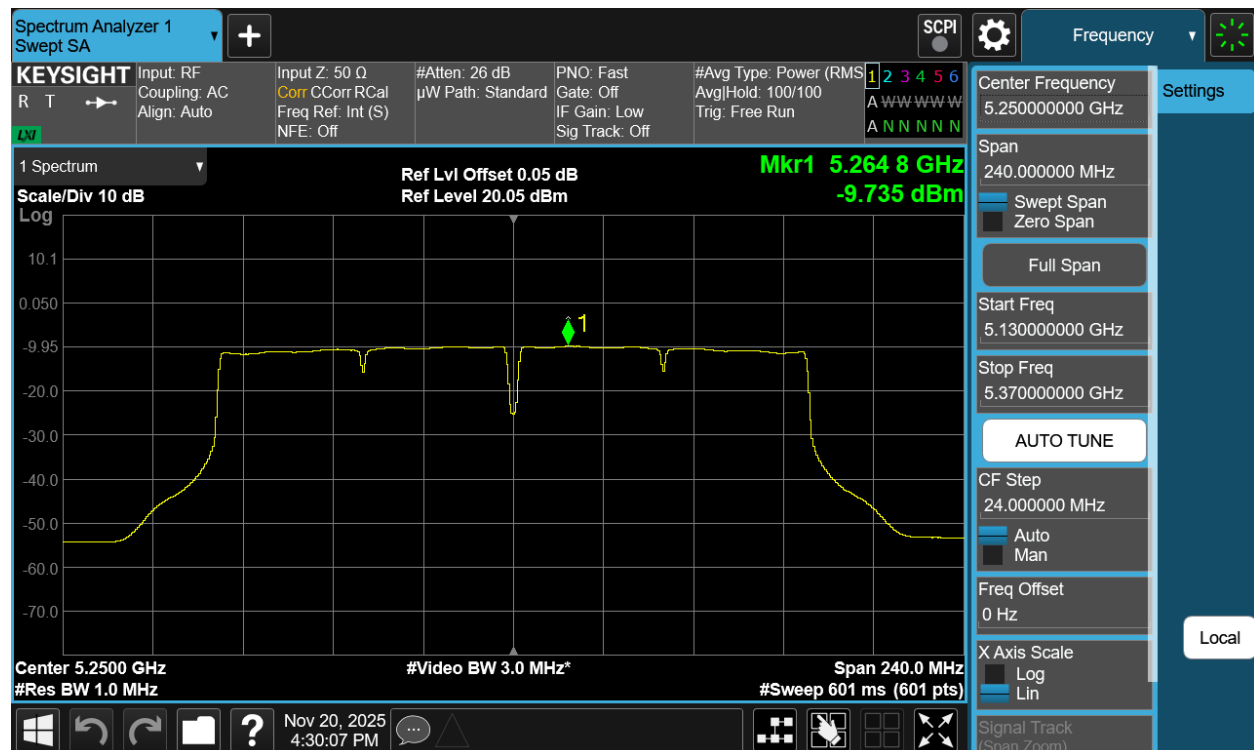


Plot 7-42 PSD CDD Antenna WF7a (40MHz BW 802.11n - Ch.54)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 75 of 169



Plot 7-43 PSD CDD Antenna WF7a (80MHz BW 802.11ac - Ch.138)



Plot 7-44 PSD CDD Antenna WF7a (160MHz BW 802.11ac - Ch.50)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 76 of 169

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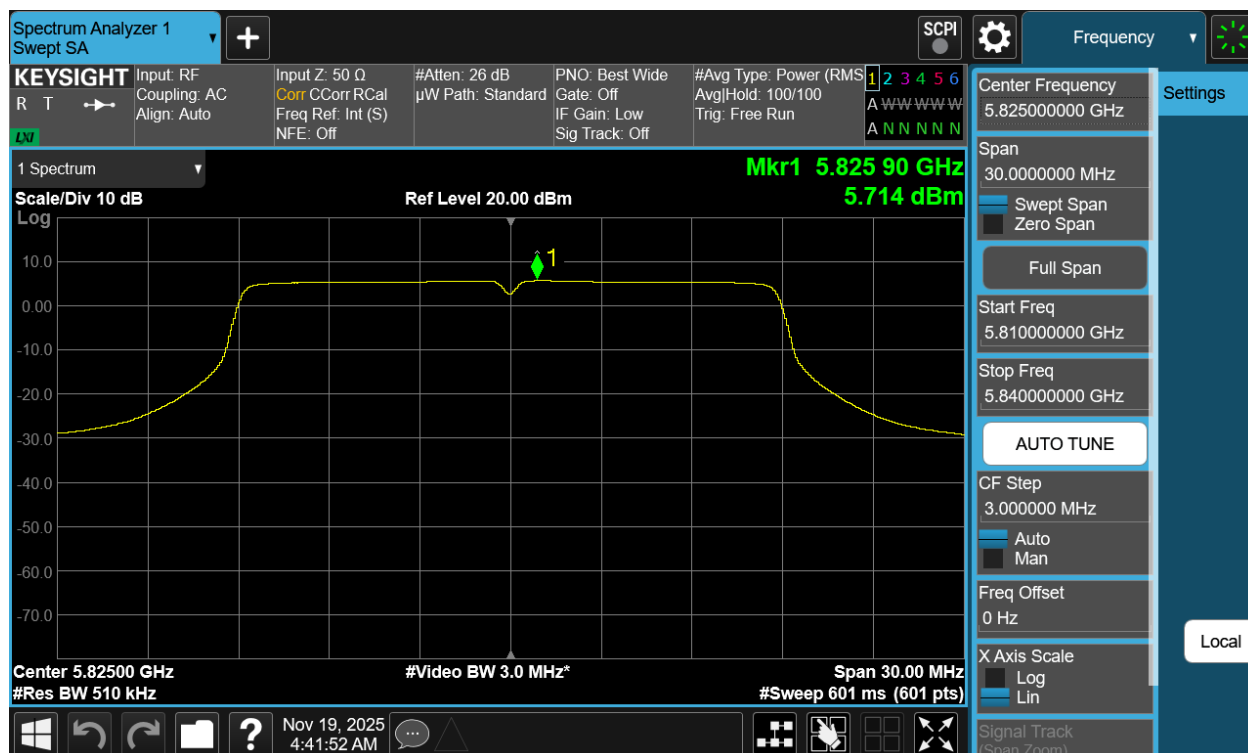
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	Frequency [MHz]	Channel	802.11 MODE	Mode	Data Rate	Antenna WF8 Power Density [dBm/500kHz]	Antenna WF7a Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	CDD	18Mbps	5.11	5.57	8.36	30.0	-21.64
	5785	157	a	CDD	18Mbps	5.12	5.41	8.28	30.0	-21.72
	5825	165	a	CDD	18Mbps	5.71	5.30	8.52	30.0	-21.48
	5745	149	n (20MHz)	CDD	MCS5	5.15	5.15	8.16	30.0	-21.84
	5785	157	n (20MHz)	CDD	MCS0	5.12	5.27	8.21	30.0	-21.79
	5825	165	n (20MHz)	CDD	MCS3	5.53	5.15	8.36	30.0	-21.64
	5745	149	be (SU) (20MHz)	CDD	MCS0	4.90	5.08	8.00	30.0	-22.00
	5785	157	be (SU) (20MHz)	CDD	MCS0	4.91	4.98	7.96	30.0	-22.04
	5825	165	be (SU) (20MHz)	CDD	MCS5	4.92	4.85	7.90	30.0	-22.10
	5755	151	n (40MHz)	CDD	MCS3	1.61	1.58	4.61	30.0	-25.39
	5795	159	n (40MHz)	CDD	MCS3	2.15	1.84	5.01	30.0	-24.99
	5755	151	be (SU) (40MHz)	CDD	MCS5	1.47	1.42	4.46	30.0	-25.54
	5795	159	be (SU) (40MHz)	CDD	MCS5	1.48	1.18	4.34	30.0	-25.66
	5775	155	ac (80MHz)	CDD	MCS0	-4.18	-4.12	-1.14	30.0	-31.14
	5775	155	be (SU) (80MHz)	CDD	MCS0	-4.54	-4.68	-1.60	30.0	-31.60

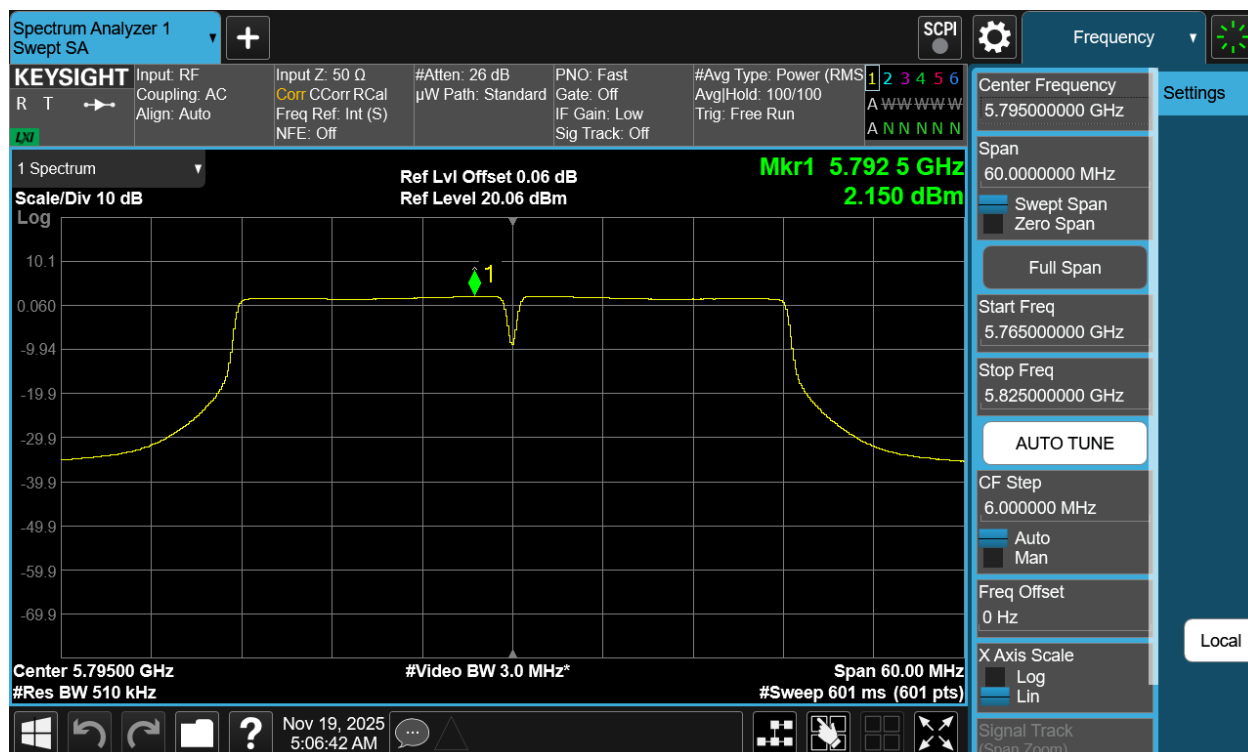
Table 7-69. Band 3 Power Spectral Density Measurements CDD

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 77 of 169

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Plot 7-45 PSD CDD Antenna WF8 (20MHz BW 802.11a - Ch.165)

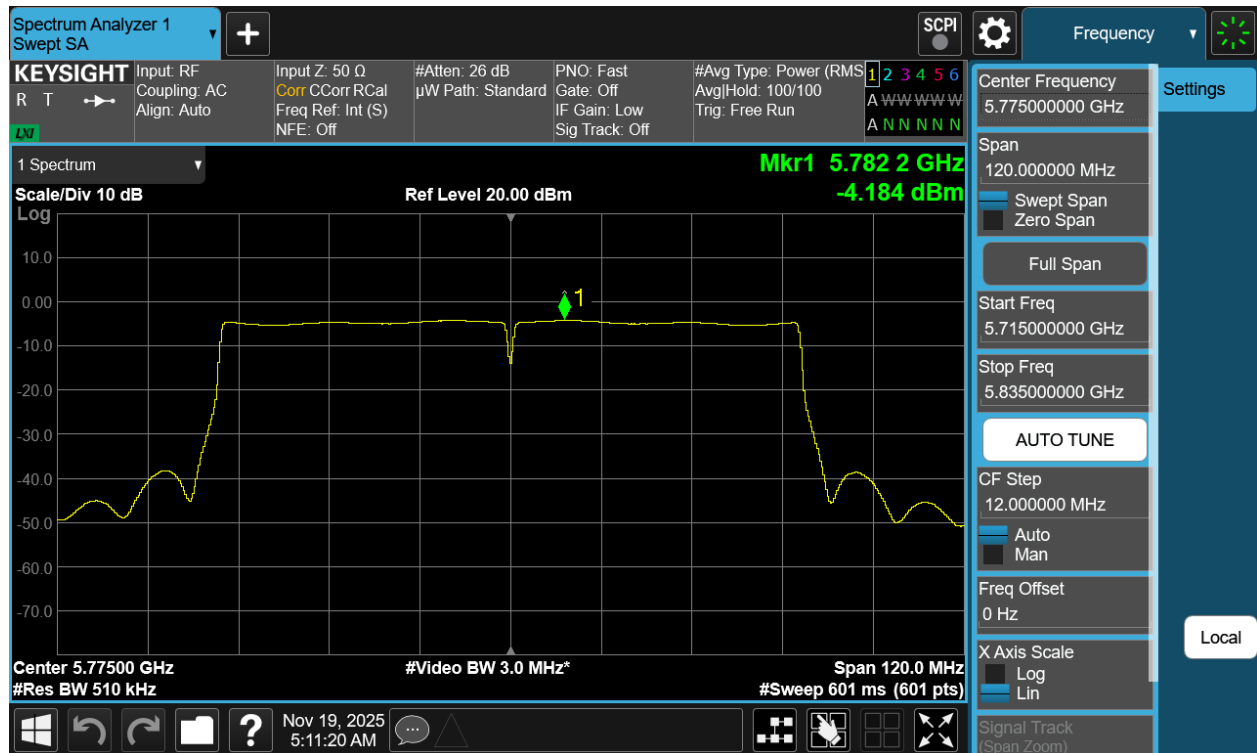


Plot 7-46 PSD CDD Antenna WF8 (40MHz BW 802.11n - Ch.159)

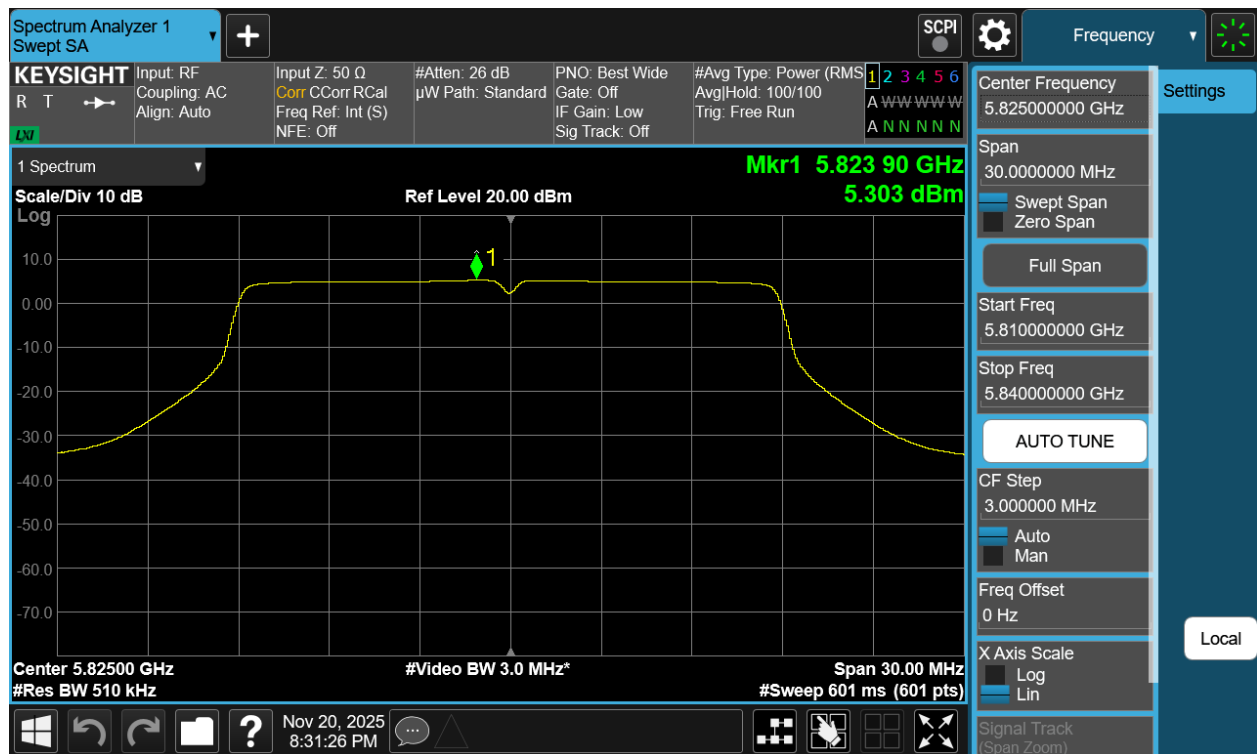
FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 78 of 169

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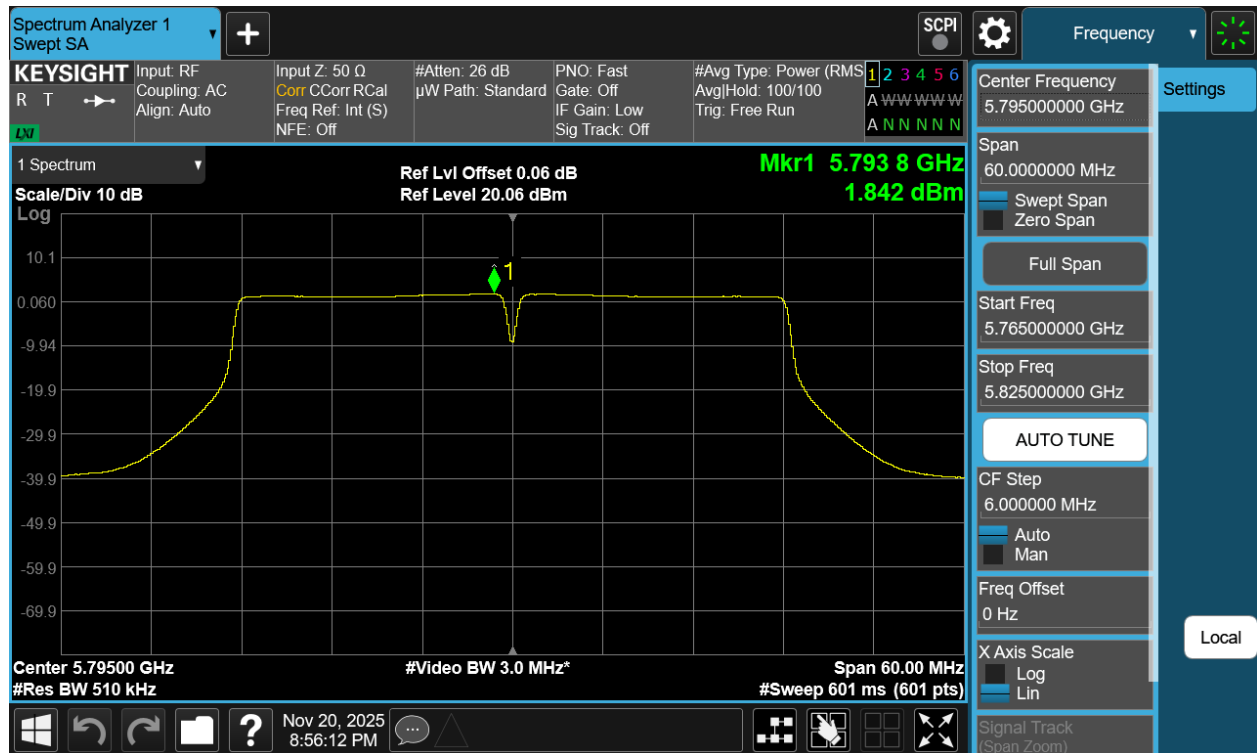


Plot 7-47 PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch.155)

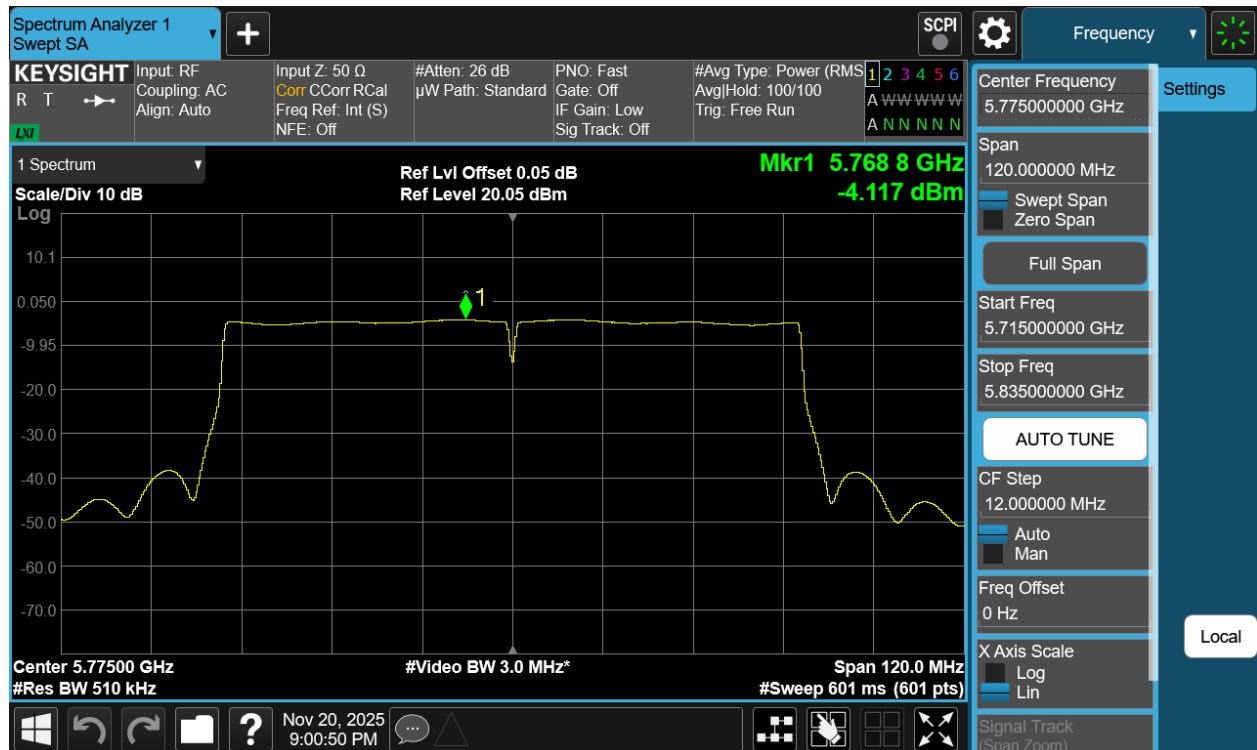


Plot 7-48 PSD CDD Antenna WF7a (20MHz BW 802.11a - Ch.165)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 79 of 169



Plot 7-49 PSD CDD Antenna WF7a (40MHz BW 802.11n - Ch.159)



Plot 7-50 PSD CDD Antenna WF7a (80MHz BW 802.11ac - Ch.155)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 80 of 169

	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate	Antenna WF8 Power Density [dBm/MHz]	Antenna WF7a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directioal Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	SDM	18Mbps	3.00	3.11	6.07	1.62	7.69	10.0	-2.31
	5200	40	a	SDM	18Mbps	3.63	3.98	6.82	1.62	8.44	10.0	-1.56
	5240	48	a	SDM	18Mbps	3.63	3.92	6.78	1.62	8.40	10.0	-1.60
	5180	36	n (20MHz)	SDM	MCS0	2.52	2.65	5.59	1.62	7.22	10.0	-2.78
	5200	40	n (20MHz)	SDM	MCS0	3.35	3.52	6.45	1.62	8.07	10.0	-1.93
	5240	48	n (20MHz)	SDM	MCS5	3.37	3.43	6.41	1.62	8.03	10.0	-1.97
	5180	36	be (SU) (20MHz)	SDM	MCS5	2.33	2.38	5.37	1.62	6.99	10.0	-3.01
	5200	40	be (SU) (20MHz)	SDM	MCS0	3.09	3.26	6.18	1.62	7.80	10.0	-2.20
	5240	48	be (SU) (20MHz)	SDM	MCS0	3.38	3.18	6.29	1.62	7.91	10.0	-2.09
	5190	38	n (40MHz)	CDD	MCS0	-0.94	-0.58	2.25	4.50	6.75	10.0	-3.25
	5230	46	n (40MHz)	SDM	MCS3	2.32	2.02	5.18	1.62	6.81	10.0	-3.19
	5190	38	be (SU) (40MHz)	CDD	MCS0	-2.40	-2.41	0.61	4.50	5.10	10.0	-4.90
	5230	46	be (SU) (40MHz)	SDM	MCS0	2.09	1.90	5.01	1.62	6.63	10.0	-3.37
	5210	42	ac (80MHz)	CDD	MCS0	-6.71	-6.15	-3.41	4.50	1.09	10.0	-8.91
	5210	42	be (SU) (80MHz)	CDD	MCS0	-6.67	-6.71	-3.68	4.50	0.81	10.0	-9.19
Band 1/2	5250	50	ac (160MHz)	CDD	MCS0	-9.70	-9.75	-6.71	4.50	-2.21	10.0	-12.21
	5250	50	be (SU) (160MHz)	CDD	MCS0	-9.84	-9.90	-6.86	4.50	-2.36	10.0	-12.36

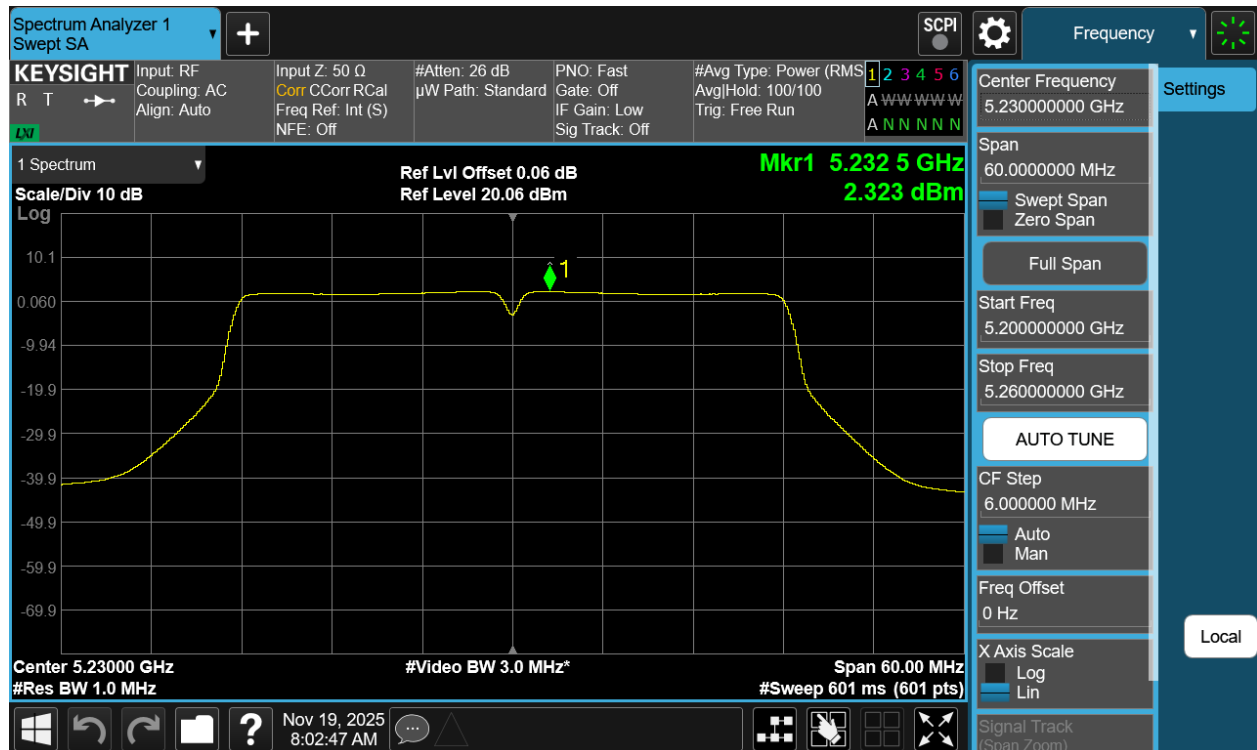
Table 7-70. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 81 of 169

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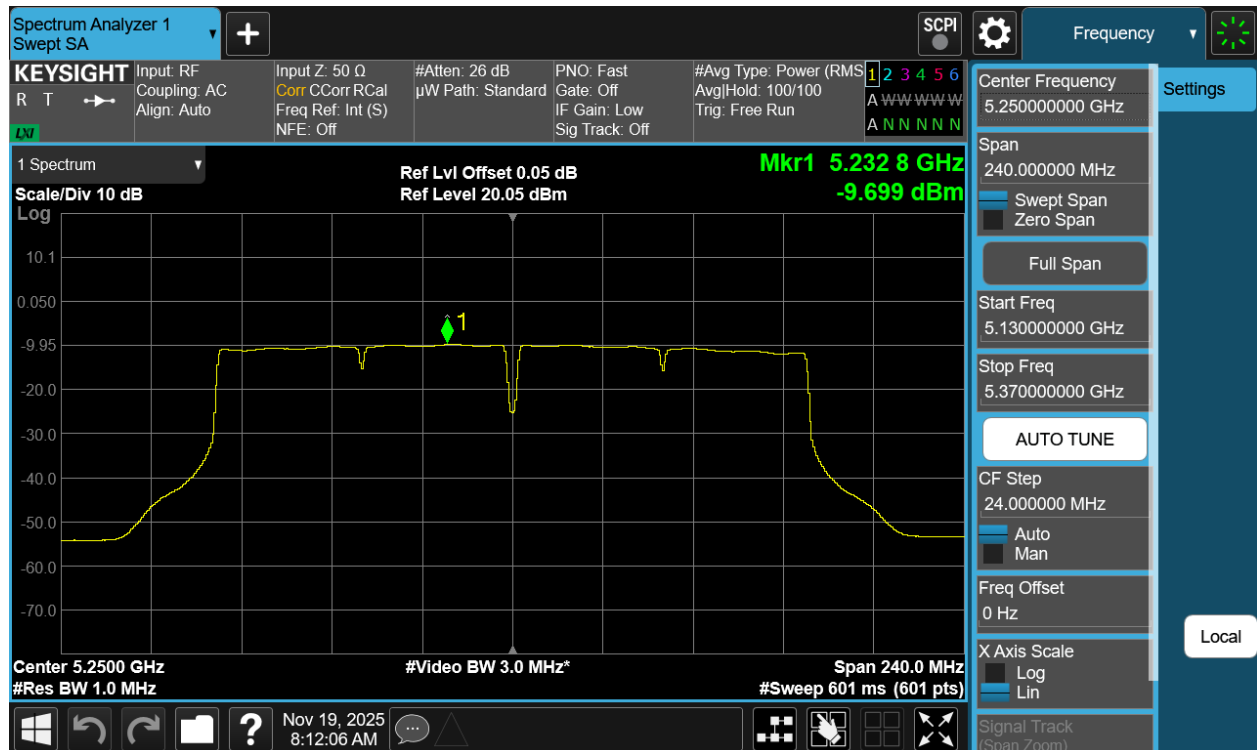
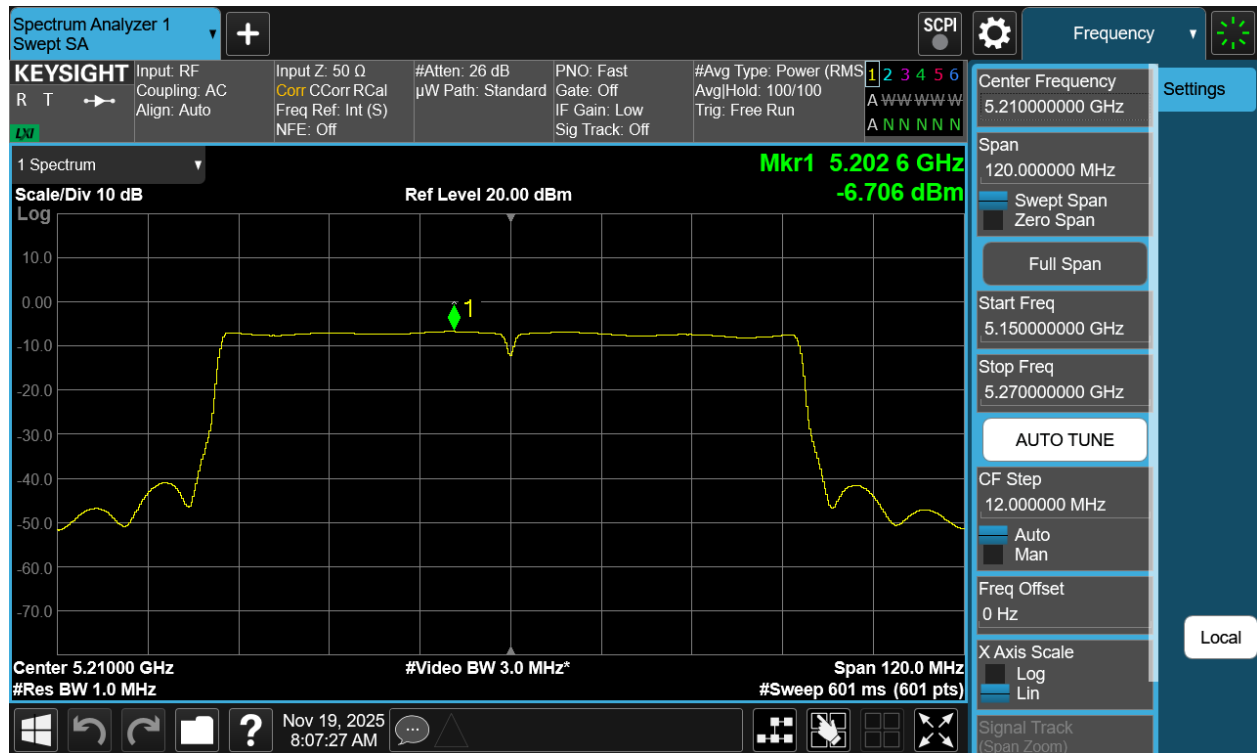


Plot 7-51 PSD SDM Antenna WF8 (20MHz BW 802.11a - Ch.40)

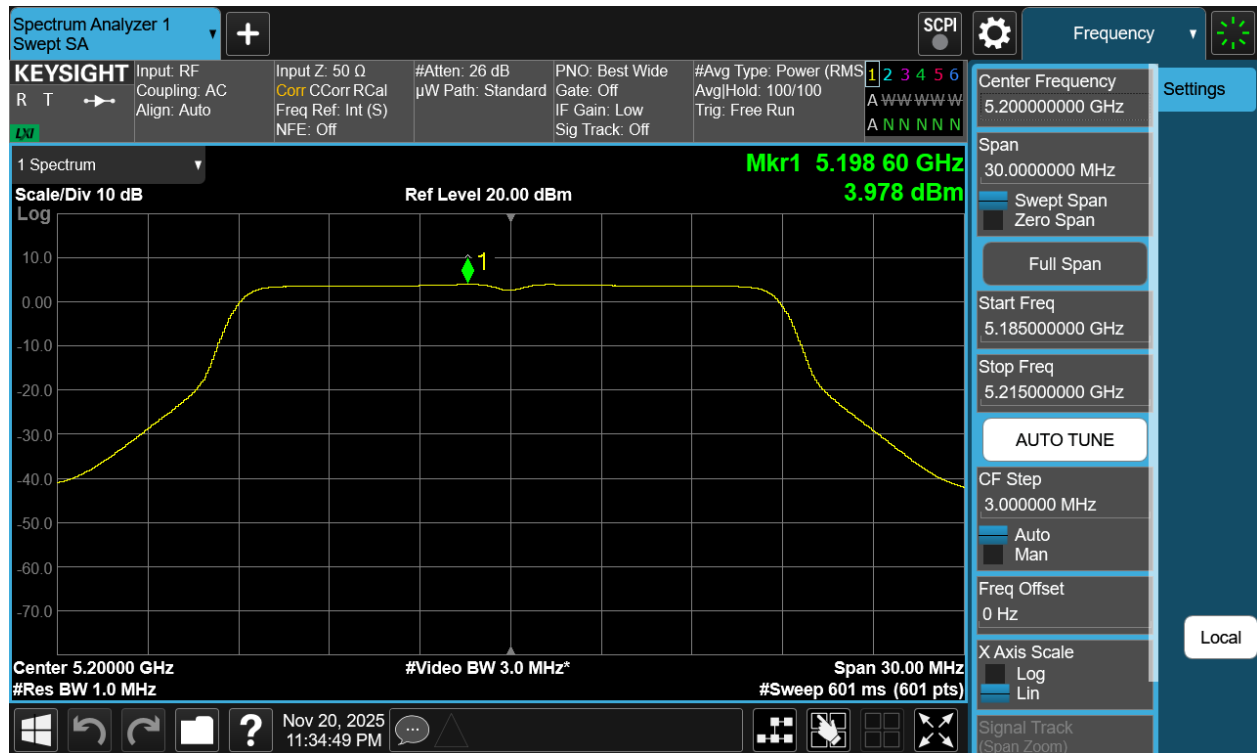


Plot 7-52 PSD SDM Antenna WF8 (40MHz BW 802.11n - Ch.46)

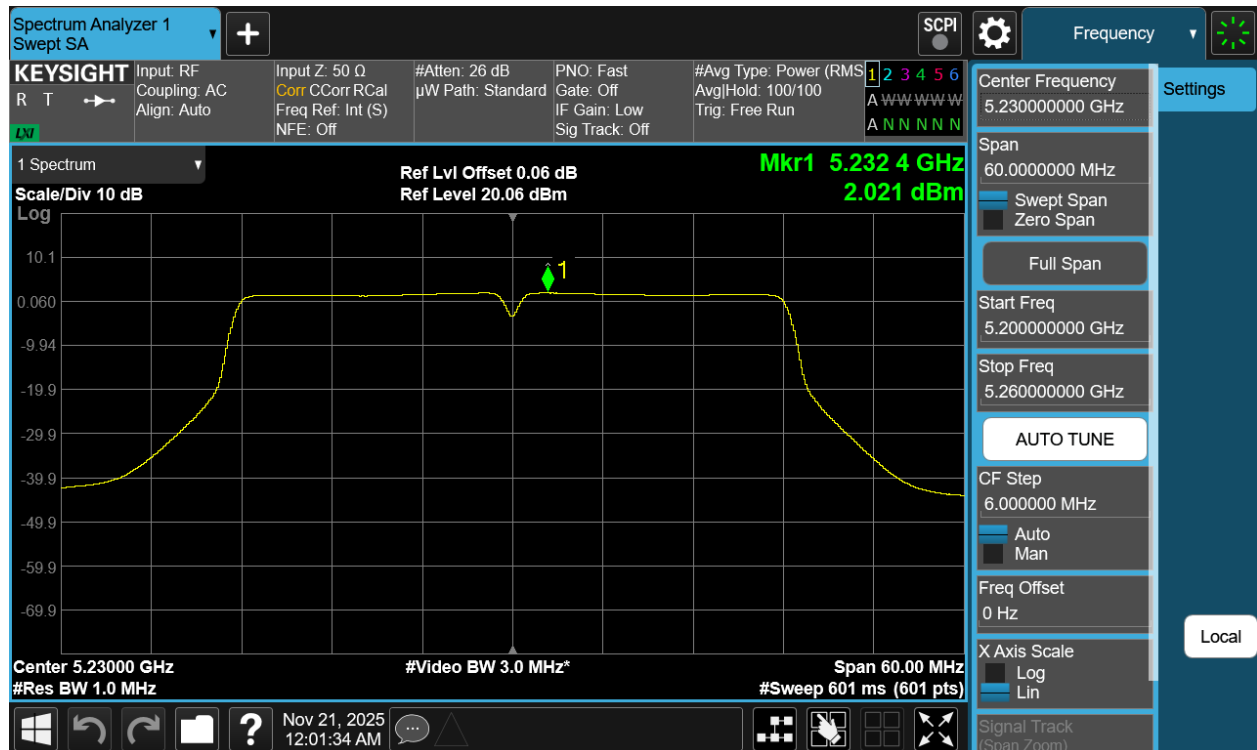
FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 82 of 169



FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 83 of 169



Plot 7-55 PSD SDM Antenna WF7a (20MHz BW 802.11a - Ch.40)



Plot 7-56 PSD SDM Antenna WF7a (40MHz BW 802.11n - Ch.46)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-13-R6.BCG	Test Dates: 09/15/2025 - 11/14/2025	EUT Type: Tablet Device	Page 84 of 169