

**MEASUREMENT REPORT****FCC PART 15.407 / ISED RSS-247 UNII 802.11a/n/ac/ax(SU)****Applicant Name:**

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

Date of Testing:

10/25/2024 - 1/2/2025

Test Report Issue Date:

1/24/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2410210074-10-R1.BCG

FCC ID:

BCGA3268

IC:

579C-A3268

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3268

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 3

Test Procedure(s):

ANSI C63.10-2020, 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 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2410210074-10-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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



RJ Ortanez
Executive Vice President



FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 1 of 272

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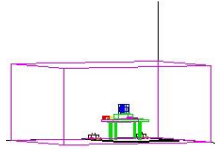
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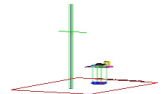
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MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO						CDD/SDM Primary		CDD/SDM Diversity	
				Antenna WF7a		Antenna WF2a		Antenna WF7b		Summed		Summed	
				Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	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	87.902	19.44	88.512	19.47	86.298	19.36	96.605	19.85	98.401	19.93
2A		802.11a/n	5260 - 5320	85.507	19.32	87.297	19.41	88.512	19.47	98.175	19.92	97.724	19.90
2C		802.11a/n	5500 - 5720	88.512	19.47	87.498	19.42	88.308	19.46	99.083	19.96	98.175	19.92
3		802.11a/n	5745 - 5825	89.125	19.50	88.920	19.49	85.901	19.34	176.198	22.46	177.011	22.48
1	40	802.11n	5190 - 5230	86.298	19.36	83.176	19.20	81.470	19.11	169.824	22.30	171.396	22.34
2A		802.11n	5270 - 5310	82.985	19.19	83.368	19.21	88.308	19.46	166.725	22.22	165.959	22.20
2C		802.11n	5510 - 5710	87.096	19.40	88.920	19.49	87.297	19.41	177.011	22.48	174.582	22.42
3		802.11n	5755 - 5795	83.560	19.22	85.901	19.34	88.105	19.45	166.725	22.22	169.824	22.30
1	80	802.11ac	5210	25.823	14.12	28.054	14.48	26.853	14.29	48.978	16.90	48.306	16.84
2A		802.11ac	5290	42.364	16.27	42.658	16.30	43.752	16.41	83.946	19.24	83.753	19.23
2C		802.11ac	5530 - 5690	83.753	19.23	83.946	19.24	87.498	19.42	170.216	22.31	173.780	22.40
3		802.11ac	5775	57.677	17.61	62.951	17.99	58.884	17.70	121.899	20.86	120.226	20.80
1	20	802.11ax (SU)	5180 - 5240	88.920	19.49	85.310	19.31	82.794	19.18	125.893	21.00	123.027	20.90
2A		802.11ax (SU)	5260 - 5320	85.310	19.31	82.604	19.17	85.310	19.31	118.577	20.74	119.950	20.79
2C		802.11ax (SU)	5500 - 5720	87.096	19.40	88.716	19.48	88.105	19.45	122.462	20.88	123.880	20.93
3		802.11ax (SU)	5745 - 5825	86.696	19.38	88.716	19.48	88.920	19.49	173.780	22.40	176.198	22.46
1	40	802.11ax (SU)	5190 - 5230	86.896	19.39	84.918	19.29	83.560	19.22	170.216	22.31	168.655	22.27
2A		802.11ax (SU)	5270 - 5310	85.114	19.30	83.946	19.24	85.901	19.34	172.982	22.38	172.584	22.37
2C		802.11ax (SU)	5510 - 5710	88.716	19.48	87.096	19.40	87.498	19.42	169.434	22.29	169.044	22.28
3		802.11ax (SU)	5755 - 5795	84.333	19.26	86.896	19.39	88.920	19.49	176.198	22.46	176.198	22.46
1	80	802.11ax (SU)	5210	24.434	13.88	24.889	13.96	23.388	13.69	47.973	16.81	50.119	17.00
2A		802.11ax (SU)	5290	34.356	15.36	36.728	15.65	35.156	15.46	72.444	18.60	69.663	18.43
2C		802.11ax (SU)	5530 - 5690	82.035	19.14	88.920	19.49	85.310	19.31	173.380	22.39	172.584	22.37
3		802.11ax (SU)	5775	58.479	17.67	58.076	17.64	58.614	17.68	108.643	20.36	110.662	20.44
1	160	802.11ac	5250	22.182	13.46	20.512	13.12	21.677	13.36	42.073	16.24	41.305	16.16
2C		802.11ac	5570	20.559	13.13	20.654	13.15	19.543	12.91	41.115	16.14	41.210	16.15
1	160	802.11ax (SU)	5250	20.606	13.14	21.232	13.27	21.777	13.38	43.351	16.37	42.855	16.32
2C		802.11ax (SU)	5570	20.184	13.05	20.845	13.19	20.137	13.04	39.174	15.93	38.994	15.91

FCC EUT Overview

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UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO						CDD/SDM Primary		CDD/SDM Diversity	
				Antenna WF7a		Antenna WF2a		Antenna WF7b		Summed		Summed	
				Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	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	61.376	17.88	62.517	17.96	61.094	17.86	61.944	17.92	61.094	17.86
2A		802.11a/n	5260 - 5320	85.507	19.32	87.297	19.41	88.512	19.47	98.175	19.92	97.724	19.90
2C		802.11a/n	5500 - 5700	87.902	19.44	87.498	19.42	88.308	19.46	99.083	19.96	98.175	19.92
3		802.11a/n	5745 - 5825	89.125	19.50	88.920	19.49	85.901	19.34	176.198	22.46	177.011	22.48
1	40	802.11n	5190 - 5230	87.498	19.42	88.308	19.46	86.497	19.37	108.643	20.36	107.152	20.30
2A		802.11n	5270 - 5310	82.985	19.19	83.368	19.21	88.308	19.46	166.725	22.22	165.959	22.20
2C		802.11n	5510 - 5670	83.946	19.24	84.528	19.27	87.297	19.41	177.011	22.48	174.582	22.42
3		802.11n	5755 - 5795	83.560	19.22	85.901	19.34	88.105	19.45	166.725	22.22	169.824	22.30
1	80	802.11ac	5210	27.227	14.35	26.424	14.22	27.606	14.41	48.306	16.84	48.306	16.84
2A		802.11ac	5290	42.364	16.27	42.658	16.30	43.752	16.41	83.946	19.24	83.753	19.23
2C		802.11ac	5530 - 5610	27.669	14.42	27.925	14.46	27.164	14.34	54.954	17.40	54.576	17.37
3		802.11ac	5775	57.677	17.61	62.951	17.99	58.884	17.70	121.899	20.86	120.226	20.80
1	20	802.11ax (SU)	5180 - 5240	79.250	18.99	75.336	18.77	77.983	18.92	77.090	18.87	75.683	18.79
2A		802.11ax (SU)	5260 - 5320	85.310	19.31	82.604	19.17	85.310	19.31	118.577	20.74	119.950	20.79
2C		802.11ax (SU)	5500 - 5700	87.096	19.40	88.716	19.48	88.105	19.45	122.462	20.88	123.880	20.93
3		802.11ax (SU)	5745 - 5825	86.696	19.38	88.716	19.48	88.920	19.49	173.780	22.40	176.198	22.46
1	40	802.11ax (SU)	5190 - 5230	84.918	19.29	88.105	19.45	86.298	19.36	122.462	20.88	119.124	20.76
2A		802.11ax (SU)	5270 - 5310	85.114	19.30	83.946	19.24	85.901	19.34	172.982	22.38	172.584	22.37
2C		802.11ax (SU)	5510 - 5670	83.753	19.23	84.528	19.27	83.176	19.20	169.434	22.29	169.044	22.28
3		802.11ax (SU)	5755 - 5795	84.333	19.26	86.896	19.39	88.920	19.49	176.198	22.46	176.198	22.46
1	80	802.11ax (SU)	5210	23.227	13.66	24.099	13.82	24.774	13.94	49.659	16.96	48.084	16.82
2A		802.11ax (SU)	5290	34.356	15.36	36.728	15.65	35.156	15.46	72.444	18.60	69.663	18.43
2C		802.11ax (SU)	5530 - 5610	26.669	14.26	27.861	14.45	27.102	14.33	46.559	16.68	47.098	16.73
3		802.11ax (SU)	5775	58.479	17.67	58.076	17.64	58.614	17.68	108.643	20.36	110.662	20.44
1	160	802.11ac	5250	21.928	13.41	21.281	13.28	21.281	13.28	42.364	16.27	43.652	16.40
1	160	802.11ax (SU)	5250	21.429	13.31	21.677	13.36	21.727	13.37	43.351	16.37	42.855	16.32

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: BCGA3268** and **IC: 579C-A3268**. The test data contained in this report pertains only to the emissions due to the EUT's UNII 802.11a/n/ac/ax(SU) transmitter.

Test Device Serial No.: CJ2X56PPQJ, X4H6MH769, HN7DY16103, DLXHAC000010000RK4

2.2 Device Capabilities

This device contains the following capabilities:

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

This device supports BT Beamforming

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 / 802.11n / 802.11ac / 802.11ax (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 / 802.11ac / 802.11ax (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 / 802.11ax (80MHz BW) Frequency / Channel Operations

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

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

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Notes:

1. TDWR channels are not supported for ISED.
2. 5GHz NII operation is possible in 20MHz, and 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. 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:

Measured Duty Cycles						
802.11 Mode/Band		Duty Cycle [%]				
		Antenna WF7a	Antenna WF2a	Antenna WF7b	CDD/SDM (Primary)	CDD/SDM (Diversity)
5GHz	a (Low Rate)	98.13	98.13	98.13	98.72	98.72
	a (Mid Rate)	96.89	96.89	96.89	96.76	96.76
	a (High Rate)	93.15	93.15	93.15	92.79	92.79
	n (HT20) (Low Rate)	97.57	97.57	97.57	95.54	95.54
	n (HT20) (Mid Rate)	95.74	95.74	95.74	93.13	93.13
	n (HT20) (High Rate)	94.17	94.17	94.17	93.05	93.05
	ax(SU) (HT20 Low Rate)	97.84	97.84	97.84	96.72	96.72
	ax(SU) (HT20 Mid Rate)	94.62	94.62	94.62	93.61	93.61
	ax(SU) (HT20 High Rate)	93.41	93.41	93.41	93.26	93.26
	n (HT40 Low Rate)	97.70	97.70	97.70	96.14	96.14
	n (HT40 Mid Rate)	96.25	96.25	96.25	94.45	94.45
	n (HT40 High Rate)	95.10	95.10	95.10	90.55	90.55
	ax(SU) (HT40 Low Rate)	97.84	97.84	97.84	97.27	97.27
	ax(SU) (HT40 Mid Rate)	96.32	96.32	96.32	95.52	95.52
	ax(SU) (HT40 High Rate)	91.52	91.52	91.52	93.30	93.30
	ac (HT80 Low Rate)	95.92	95.92	95.92	96.12	96.12
	ac (HT80 Mid Rate)	93.35	93.35	93.35	95.72	95.72
	ac (HT80 High Rate)	92.70	92.70	92.70	92.68	92.68
	ax(SU) (HT80 Low Rate)	97.10	97.10	97.10	95.98	95.98
	ax(SU) (HT80 Mid Rate)	94.21	94.21	94.21	91.29	91.29
	ax(SU) (HT80 High Rate)	91.33	91.33	91.33	88.13	88.13
	ac (HT160 Low Rate)	96.78	96.78	96.78	94.47	94.47
	ac (HT160 Mid Rate)	95.21	95.21	95.21	92.90	92.90
	ac (HT160 High Rate)	89.72	89.72	89.72	92.26	92.26
	ax(SU) (HT160 Low Rate)	95.28	95.28	95.28	95.87	95.87
	ax(SU) (HT160 Mid Rate)	93.71	93.71	93.71	92.88	92.88
	ax(SU) (HT160 High Rate)	90.39	90.39	90.39	87.50	87.50

Table 2-4. Measured Duty Cycles

CDD/SDM Primary = Antenna WF7a + Antenna WF2a

CDD/SDM Diversity = Antenna WF2a + Antenna WF7b

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

WiFi Configurations		SISO			CDD			SDM			STBC		
		Antenna WF7a	Antenna WF2a	Antenna WF7b	Antenna WF7a	Antenna WF2a	Antenna WF7b	Antenna WF7a	Antenna WF2a	Antenna WF7b	Antenna WF7a	Antenna WF2a	Antenna WF2a
5GHz	11a	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗
	11n (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11n (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ac (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ac (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(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

4. 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)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
						20MHz		40MHz		80MHz		160MHz		20MHz				40MHz				80MHz				160MHz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	0.8us GI	0.4us GI	0.8us GI	0.4us GI		0.8us GI	0.4us GI	0.8us GI	0.4us GI	0.8us GI	1.6us GI	3.2us GI	0.8us GI	1.6us GI	3.2us GI	0.8us GI	1.6us GI	3.2us GI	0.8us GI	1.6us GI	3.2us GI	0.8us GI	1.6us GI	3.2us GI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
20MHz	HT	VHT	HE		6	9	12	18	24	36	48	54	72	84	96	108	120	144	168	180	216	252	288	324	360	432	480	576	648	720	864	960	1152	1296	1440	1728	1920	2304	2592	3072	3456	4032	4608	5184	5760	6912	7776	8832	10368	11904	13824	15744	18432	21504	24768	28224	31968	36864	41952	48192	54576	64032	72576	84288	96192	111264	127392	145728	166368	189408	215040	243264	274176	307920	344544	394176	446880	502704	571776	644160	730800	821760	927168	1047040	1181440	1331328	1497792	1680864	1881696	2100288	2347776	2624256	2930784	3268320	3637824	4041280	4479680	4953024	5462208	6007296	6588320	7205280	7858176	8547008	9271872	10033824	10832064	11667504	12540240	13450272	14397600	15382224	16404144	17463360	18560768	19696384	20870208	22082336	23322768	24601600	25918944	27274880	28669408	30103520	31577216	33090504	34643488	36236176	37868576	39540688	41252512	42994144	44775584	46596832	48457888	50358752	52299424	54279888	56290144	58330208	60400080	62499680	64628992	66788016	68976752	71195200	73443552	75721808	78030064	80368320	82736576	85134832	87563088	89921344	92309600	94727856	97176112	99654368	102162624	104699880	107266128	109861376	112485624	115138872	117821120	120532368	123271616	126038864	128834112	131657360	134508608	137387856	140295104	143230352	146193600	149184848	152204096	155241344	158296592	161369840	164461088	167579336	170715584	173879832	177072080	180292328	183539576	186813824	190115072	193443320	196788568	200160816	203559064	206983312	210423560	213889808	217382056	220899304	224431552	227978800	231541048	235118296	238710544	242317792	245940040	249577288	253229536	256896784	260579032	264276280	267988528	271715776	275458024	279215272	282987520	286774768	290576916	294392960	298223904	302069748	305930496	309796144	313676692	317572040	321482188	325397136	329316884	333241332	337170480	341104228	345042576	348985424	352942772	356904520	360870668	364841116	368815864	372794912	376778260	380765808	384757556	388753404	392753352	396757300	400765248	404777196	408793144	412813092	416836940	420864688	424896236	428931684	432971032	436974280	440980428	444989476	448992424	452999272	456999920	460994368	464982616	468964664	472940512	476910160	480873608	484830856	488781904	492726752	496665300	500597548	504523496	508443144	512356492	516263540	520164288	524058636	527946584	531828032	535702980	539571428	543433376	547288824	551137772	554980220	558816168	562645616	566468564	570284912	574094660	577897708	581694056	585483704	589266652	593042800	596812148	600574696	604320344	608059092	611790840	615514588	619231236	622940784	626643232	630338580	634026728	637707676	641381424	645048072	648707520	652359768	655994816	659612664	663213312	666806760	670392908	673971656	677542904	681106652	684662800	688211348	691752296	695285644	698811392	702329440	705829788	709322236	712796784	716253432	719692180	723112928	726515676	729900324	733266872	736615320	739945668	743257916	746551964	749827812	753085460	756324808	759545856	762748504	765932652	769098200	772245148	775373496	778483244	781574392	784646840	787690588	790715636	793722084	796709832	799678880	802629128	805560476	808472924	811366472	814241120	817096768	820933416	824751064	828549712	832329260	836089808	839831356	843553804	847257252	850941700	854607148	858253596	861880944	865489192	869078240	872648088	876198636	879729884	883241732	886734180	890207128	893660576	897094524	900508972	903903920	907279368	910635316	913971764	917288712	920586160	923865008	927124256	930363904	933583952	936784400	939965248	943126496	946268144	949390192	952492640	955575488	958638736	961682384	964706432	967710880	970695728	973660976	976606624	979532672	982439120	985325868	988192916	991030264	993847812	996635460	999393208	1002121056	1004828904	1007516752	1010184600	1012832448	1015360296	1017868144	1020355992	1022823840	1025271688	1027699536	1030107384	1032495232	1034863080	1037210928	1039538776	1041846624	1044134472	1046402320	1048650168	1050878016	1053085864	1055273712	1057441560	1059579408	1061697256	1063795104	1065872952	1067930800	1069968648	1071986496	1073984344	1075962192	1077919940	1079857688	1081775436	1083673184	1085550932	1087408680	1089246428	1091064176	1092861924	1094639672	1096397420	1098135168	1099852916	1101550664	1103228412	1104886160	1106523908	1108141656	1109739404	1111317152	1112874900	1114412648	1115930396	1117428144	1118905892	1120363640	1121791388	1123189136	1124656884	1126094632	1127502380	1128880128	1130227876	1131545624	1132833372	1134091120	1135318868	1136516616	1137684364	1138822112	1139929860	1140997608	1142035356	1143043104	1144020852	1144968600	1145886348	1146774096	1147631844	1148459592	1149257340	1150025088	1150762836	1151470584	1152148332	1152796080	1153413828	1153991576	1154529324	1155037072	1155514820	1155962568	1156380316	1156768064	1157125812	1157453560	1157751308	1158019056	1158256804	1158464552	1158642300	1158790048	1158907796	1158985544	1159033292	1159051040	1159038788	1158996536	1158924284	1158822032	1158689780	1158527528	1158335276	1158112924	1157860572	1157578320	1157266068	1156923816	1156551564	1156149312	1155717060	1155254808	1154762556	1154240304	1153688052	1153105800	1152493548	1151851296	1151179044	1150476792	1149754540	1148992288	1148190036	1147347784	1146465532	1145543280	1144581028	1143578776	1142536524	1141454272	1140332020	1139169768	1137967516	1136725264	1135443012	1134120760	1132758508	1131356256	1129914004	1128431752	1126909500	1125347248	1123744996	1122102744	1120420492	1118698240	1116935988	1115133736	1113291484	1111409232	1109486980	1107524728	1105522476	1103480224	1101397972	1099275720	1097113468	1094911216	1092668964	1090386712	1088064460	1085702208	1083299956	1080857704	1078375452	1075853200	1073290948	1070688696	1068046444	1065364192	1062641940	1059879688	1057077436	1054235184	1051352932	1048430680	1045468428	1042466176	1039423924	1036341672	1033219420	1030057168	1026854916	1023612664	1020330412	1016908160	1013345908	1009743656	1006111404	1002449152	998746900	995004648	991222396	987399144	983534892	979629640	975683388	971696136	967667884	963598632	959488380	955337128	951144876	946911624	942637372	938322120	933965868	929568616	925130364	920651112	916130860	911569608	906977356	902354104	897699852	893014600	888297348	883548096	878766844	873953592	869108340	864231088	859321836	854380584	849407332	844402080	839364828	834295576	829194324	824061072	818895820	813698568	808469316	803208064	797914812	792489560	787032308	781543056	776021804	770468552	764883300	759266048	753616796	747935544	742222292	736477040	730699788	724890536	719059284	713196032	707299780	701370528	695408276	689413024	683384772	677313520	671209268	665071916	658891464	652668912	646404260	640107508	633778656	627416704	621021652	614593400	608132048	601638596	595112044	588552292	581959240	575332788	568672936	561979684	555252932	548492680	541698928	534871676	527910924	520916672	513888920	506827668	499732916	492604664	485442912	478247660	471018908	463756656	456460904	449131652	441768900	434372648	426942896	419479644	411982892	404452640	396888888	389291636	381660884	374096632	366498880	358867628	351202876	343504624	335772872	327997620	320178868	312316616	304410864	296461612	288468860	280432608	272352856	264229604	256062852	247853600	239601848	231307596	222970844	214591592	206169840	197705588	189198836	180749584	172256832	163719580	155137828	146510576	137837824	129119572	120354820	111543568	102684816	93777544	84779668	75680192	66479116	57176440	47772164	38276288	28679812	19082736	9485600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2-6. Supported Data Rates

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5. 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, HDR4/8, LE1/2M	802.15.4	802.11 b/g/n/ax	BDR, HDR4/8	802.11 a/n/ac/ax	802.11 a/ax
Ant WF7b	Config 1	✓	✗	✗	✗	✓	✗
Ant WF7b	Config 2	✓	✗	✗	✗	✗	✓
Ant WF7b	Config 3	✗	✓	✗	✗	✓	✗
Ant WF7b	Config 4	✗	✓	✗	✗	✗	✓
Ant WF7b	Config 5	✗	✗	✓	✓	✗	✗

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.

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

2.3 Antenna Description

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

Frequency [GHz]	Antenna Gain (dBi)		
	Antenna WF7a	Antenna WF2a	Antenna WF7b
5.150 – 5.250	0.9	0.7	0.0
5.250 – 5.350	2.3	1.6	0.3
5.470 – 5.725	2.6	2.2	2.8
5.725 – 5.850	1.7	2.2	1.5

Table 2-8. Highest Antenna Gain

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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2.4 Test Support Equipment

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

Table 2-9. Test Support Equipment List

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020 and KDB 789033 D02 v02r01. ANSI C63.10-2020 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.

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

802.11n HT20/40, 11ax(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(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.

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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 (OFDMA) test result, see separate UNII 802.11ax (OFDMA) report, 1C2410210074-11.BCG.

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

Description	Bluetooth	802.11n 5GHz
Antenna	Antenna WF7b	Antenna WF7b
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 22D20 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) 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	2.07
Line Conducted Disturbance	1.91
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz - 1GHz)	4.85
Radiated Disturbance (1 - 18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Anritsu	ML2495A	Power Meter	7/8/2024	Annual	7/8/2025	1039008
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	3/14/2024	Annual	3/14/2025	T058701-01
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/9/2024	Annual	4/9/2025	00218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Keysight Technology	N9030A	PXA Signal Analyzer	7/11/2024	Annual	7/11/2025	MY49430244
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	3/1/2024	Annual	3/1/2025	102145
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/1/2024	Annual	5/1/2025	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Annual	4/24/2025	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/29/2024	Annual	4/29/2025	00304

Table 6-1. Test Equipment List

Note:

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3268
 IC: 579C-A3268
 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-Gen [6.7]	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.i)	RSS-247 [6.2]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.4
15.407 (a.1.iv), (a.2), (a.3.i)	RSS-247 [6.2]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.5
15.407(h)	RSS-247 [6.3]	Dynamic Frequency Selection	See DFS Test Report	RADIATED	PASS	See DFS Test Report (1C24102100 74-09.BCG)
15.407(b.1), (b.2), (b.3), (b.4)	RSS-247 [6.2]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [6.2])		PASS	Section 7.6
15.205, 15.407(b.1), (b.2), (b.3), (b.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 1.1.1.
- 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 3.1.0.

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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 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 – 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 have been investigated, with tabular data reported for the worst-case data rate. A plot of the mid channel per bandwidth has been included in the report as a representative reference.

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7.2.1 Antenna WF7a 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	n (20MHz)	65/72.2 (MCS7)	17.87	20.79
	5200	40	n (20MHz)	39/43.3 (MCS4)	17.74	20.53
	5240	48	n (20MHz)	65/72.2 (MCS7)	17.85	21.02
	5180	36	ax (SU) (20MHz)	135/143.4 (MCS11)	19.06	21.10
	5200	40	ax (SU) (20MHz)	135/143.4 (MCS11)	19.09	21.14
	5240	48	ax (SU) (20MHz)	135/143.4 (MCS11)	19.02	20.89
	5190	38	n (40MHz)	135/150 (MCS7)	36.52	41.12
	5230	46	n (40MHz)	40/40.5 (MCS2)	36.23	40.83
	5190	38	ax (SU) (40MHz)	271/286 (MCS11)	37.89	41.03
	5230	46	ax (SU) (40MHz)	98/103.2 (MCS4)	37.93	41.39
	5210	42	ac (80MHz)	175.5/195 (MCS4)	75.51	81.20
	5210	42	ax (SU) (80MHz)	567/600.5 (MCS11)	77.02	81.17
Band 1/2	5250	50	ac (160MHz)	175.5/195 (MCS4)	153.90	163.62
	5250	50	ax (SU) (160MHz)	567/600.5 (MCS11)	155.94	164.34
Band 2A	5260	52	n (20MHz)	39/43.3 (MCS4)	17.69	20.76
	5300	60	n (20MHz)	19.5/21.7 (MCS2)	17.69	20.60
	5320	64	n (20MHz)	39/43.3 (MCS4)	17.73	20.72
	5260	52	ax (SU) (20MHz)	49/51.6 (MCS4)	19.01	21.03
	5300	60	ax (SU) (20MHz)	135/143.4 (MCS11)	18.99	20.96
	5320	64	ax (SU) (20MHz)	49/51.6 (MCS4)	19.08	21.33
	5270	54	n (40MHz)	81/90 (MCS4)	36.24	40.69
	5310	62	n (40MHz)	81/90 (MCS4)	36.37	40.80
	5270	54	ax (SU) (40MHz)	98/103.2 (MCS4)	37.91	41.40
	5310	62	ax (SU) (40MHz)	271/286 (MCS11)	37.92	41.06
	5290	58	ac (80MHz)	175.5/195 (MCS4)	75.52	80.62
	5290	58	ax (SU) (80MHz)	567/600.5 (MCS11)	77.07	81.67
Band 2C	5500	100	n (20MHz)	65/72.2 (MCS7)	17.86	20.93
	5580	116	n (20MHz)	39/43.3 (MCS4)	17.72	20.66
	5720	144	n (20MHz)	39/43.3 (MCS4)	17.77	20.69
	5500	100	ax (SU) (20MHz)	135/143.4 (MCS11)	19.00	21.12
	5580	116	ax (SU) (20MHz)	135/143.4 (MCS11)	19.10	21.01
	5720	144	ax (SU) (20MHz)	135/143.4 (MCS11)	19.06	20.96
	5510	102	n (40MHz)	81/90 (MCS4)	36.30	41.09
	5550	110	n (40MHz)	81/90 (MCS4)	36.27	40.81
	5710	142	n (40MHz)	81/90 (MCS4)	36.27	40.58
	5510	102	ax (SU) (40MHz)	271/286 (MCS11)	37.92	41.21
	5550	110	ax (SU) (40MHz)	98/103.2 (MCS4)	37.87	41.19
	5710	142	ax (SU) (40MHz)	49/51.6 (MCS2)	37.95	41.31
	5530	106	ac (80MHz)	390/433.3 (MCS9)	75.92	81.30
	*5610	122	ac (80MHz)	175.5/195 (MCS4)	75.53	81.67
	5690	138	ac (80MHz)	87.8/97.5 (MCS2)	75.46	80.72
	5530	106	ax (SU) (80MHz)	567/600.5 (MCS11)	77.01	81.71
	*5610	122	ax (SU) (80MHz)	567/600.5 (MCS11)	77.11	81.45
	5690	138	ax (SU) (80MHz)	567/600.5 (MCS11)	77.22	81.70
	*5570	114	ac (160MHz)	87.8/97.5 (MCS2)	154.22	164.90
	*5570	114	ax (SU) (160MHz)	567/600.5 (MCS11)	156.22	164.62

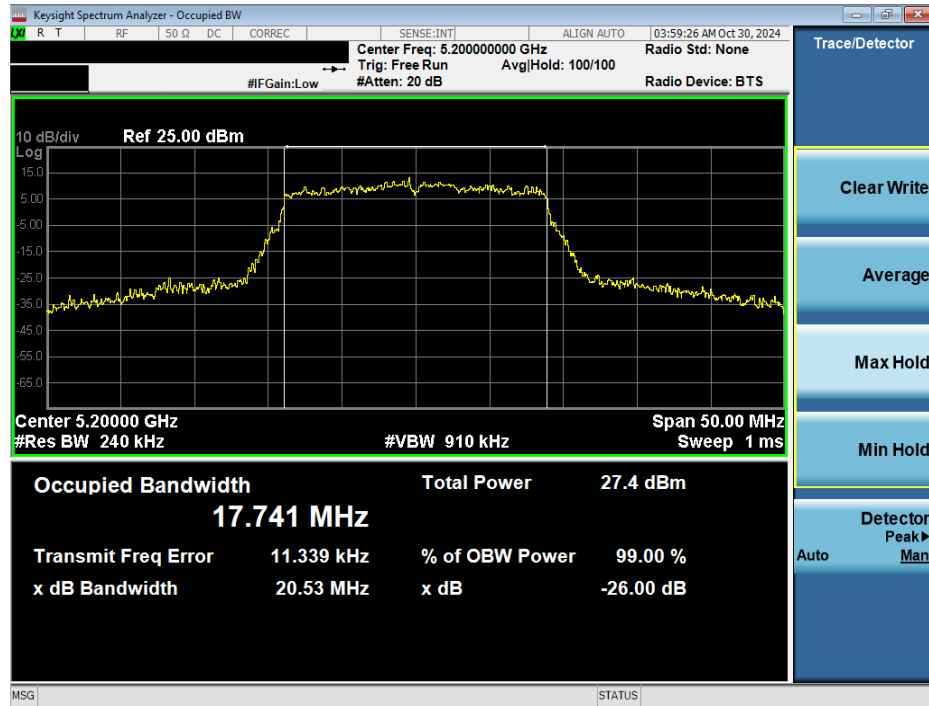
Table 7-2. Conducted Bandwidth Measurements Antenna WF7a

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

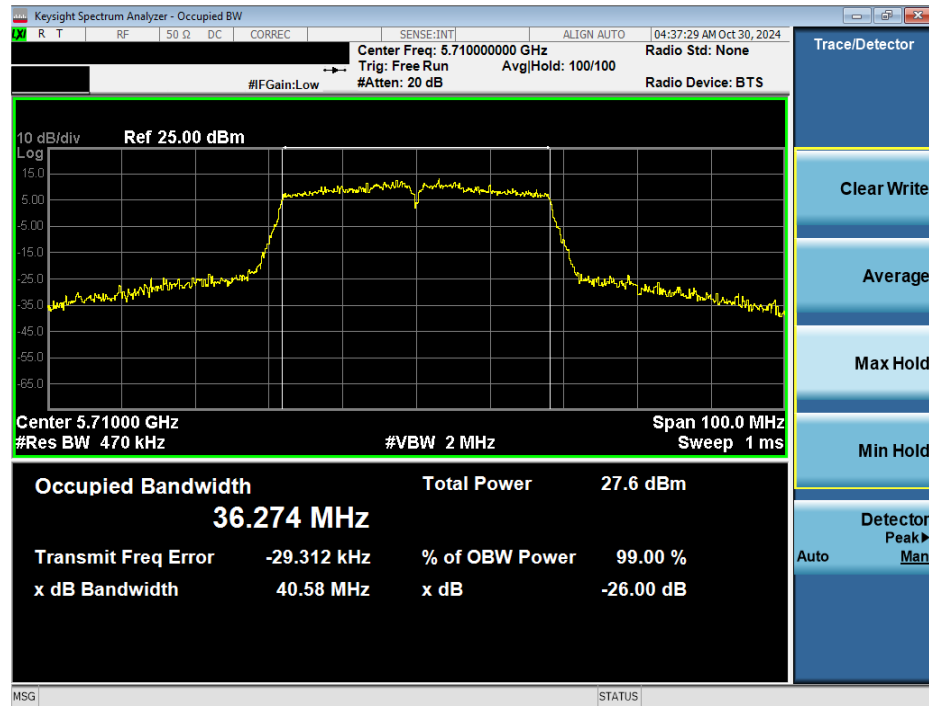
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Plot 7-1. 26dB BW & 99% OBW Antenna WF7a (20MHz BW 802.11n – Ch. 40)

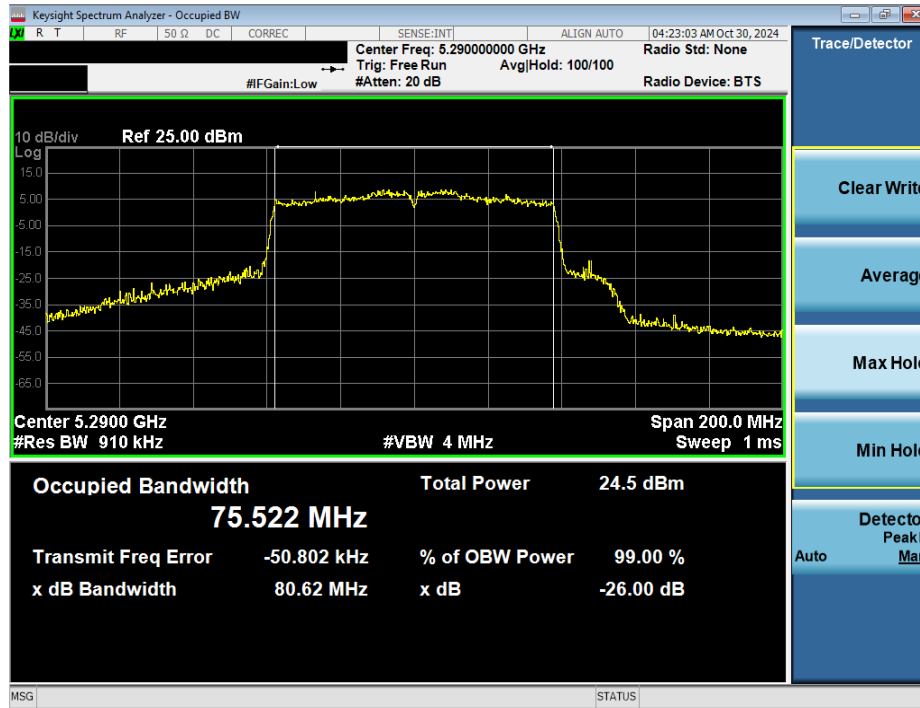


Plot 7-2. 26dB BW & 99% OBW Antenna WF7a (40MHz BW 802.11n – Ch. 142)

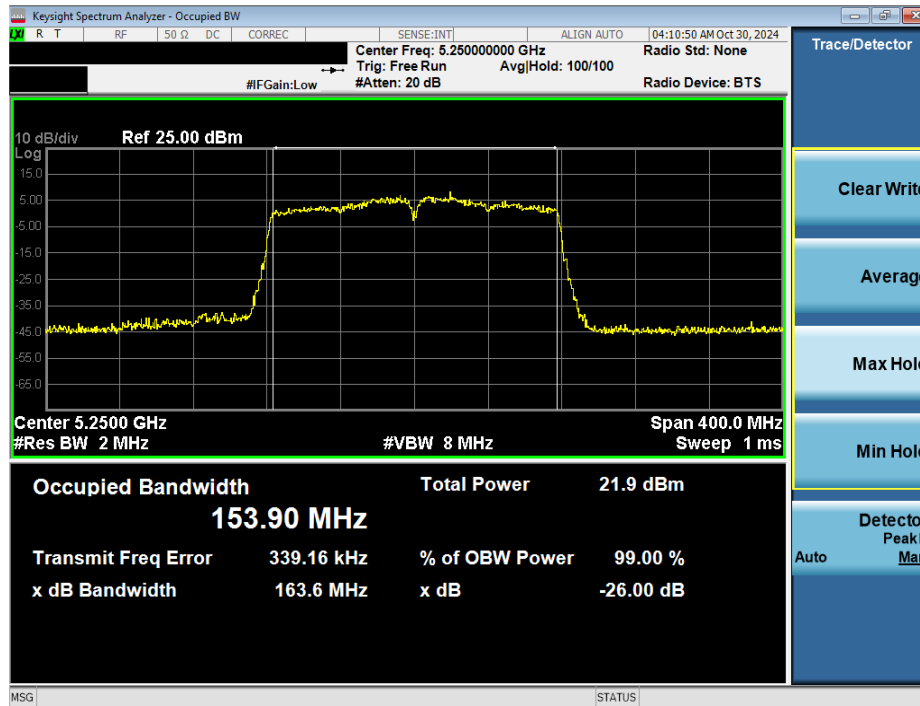
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Plot 7-3. 26dB BW & 99% OBW Antenna WF7a (80MHz BW 802.11ac – Ch. 58)



Plot 7-4. 26dB BW & 99% OBW Antenna WF7a (160MHz BW 802.11ac – Ch. 50)

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7.2.2 Antenna WF2a 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	n (20MHz)	39/43.3 (MCS4)	17.78	20.59
	5200	40	n (20MHz)	39/43.3 (MCS4)	17.73	20.50
	5240	48	n (20MHz)	19.5/21.7 (MCS2)	17.72	20.67
	5180	36	ax (SU) (20MHz)	135/143.4 (MCS11)	19.02	20.98
	5200	40	ax (SU) (20MHz)	135/143.4 (MCS11)	19.03	21.15
	5240	48	ax (SU) (20MHz)	49/51.6 (MCS4)	19.01	21.03
	5190	38	n (40MHz)	81/90 (MCS4)	36.35	40.95
	5230	46	n (40MHz)	40/40.5 (MCS2)	36.31	40.63
	5190	38	ax (SU) (40MHz)	271/286 (MCS11)	37.84	41.51
	5230	46	ax (SU) (40MHz)	271/286 (MCS11)	37.88	41.24
	5210	42	ac (80MHz)	390/433.3 (MCS9)	75.78	80.86
	5210	42	ax (SU) (80MHz)	567/600.5 (MCS11)	76.99	80.85
Band 1/2	5250	50	ac (160MHz)	87.8/97.5 (MCS2)	153.89	162.82
	5250	50	ax (SU) (160MHz)	567/600.5 (MCS11)	155.74	164.70
Band 2A	5260	52	n (20MHz)	39/43.3 (MCS4)	17.73	20.78
	5300	60	n (20MHz)	65/72.2 (MCS7)	17.84	20.94
	5320	64	n (20MHz)	39/43.3 (MCS4)	17.73	21.11
	5260	52	ax (SU) (20MHz)	135/143.4 (MCS11)	19.02	20.97
	5300	60	ax (SU) (20MHz)	49/51.6 (MCS4)	19.02	20.98
	5320	64	ax (SU) (20MHz)	135/143.4 (MCS11)	19.03	21.13
	5270	54	n (40MHz)	81/90 (MCS4)	36.27	40.66
	5310	62	n (40MHz)	135/150 (MCS7)	36.59	41.22
	5270	54	ax (SU) (40MHz)	98/103.2 (MCS4)	37.91	41.10
	5310	62	ax (SU) (40MHz)	271/286 (MCS11)	37.90	41.21
	5290	58	ac (80MHz)	175.5/195 (MCS4)	75.50	80.74
	5290	58	ax (SU) (80MHz)	567/600.5 (MCS11)	77.09	81.42
Band 2C	5500	100	n (20MHz)	65/72.2 (MCS7)	17.81	20.96
	5580	116	n (20MHz)	39/43.3 (MCS4)	17.76	20.66
	5720	144	n (20MHz)	39/43.3 (MCS4)	17.73	20.68
	5500	100	ax (SU) (20MHz)	135/143.4 (MCS11)	19.01	20.94
	5580	116	ax (SU) (20MHz)	49/51.6 (MCS4)	18.99	20.98
	5720	144	ax (SU) (20MHz)	135/143.4 (MCS11)	19.04	21.14
	5510	102	n (40MHz)	81/90 (MCS4)	36.50	41.25
	5550	110	n (40MHz)	40/40.5 (MCS2)	36.28	40.74
	5710	142	n (40MHz)	81/90 (MCS4)	36.33	40.78
	5510	102	ax (SU) (40MHz)	271/286 (MCS11)	37.87	41.23
	5550	110	ax (SU) (40MHz)	98/103.2 (MCS4)	37.95	41.11
	5710	142	ax (SU) (40MHz)	271/286 (MCS11)	37.86	41.00
	5530	106	ac (80MHz)	175.5/195 (MCS4)	75.59	81.73
	*5610	122	ac (80MHz)	175.5/195 (MCS4)	75.53	80.68
	5690	138	ac (80MHz)	87.8/97.5 (MCS2)	75.43	80.79
	5530	106	ax (SU) (80MHz)	567/600.5 (MCS11)	77.05	81.60
	*5610	122	ax (SU) (80MHz)	567/600.5 (MCS11)	77.14	81.48
	5690	138	ax (SU) (80MHz)	204/216.2 (MCS4)	77.22	81.30
	*5570	114	ac (160MHz)	175.5/195 (MCS4)	154.31	163.44
	*5570	114	ax (SU) (160MHz)	567/600.5 (MCS11)	156.07	164.16

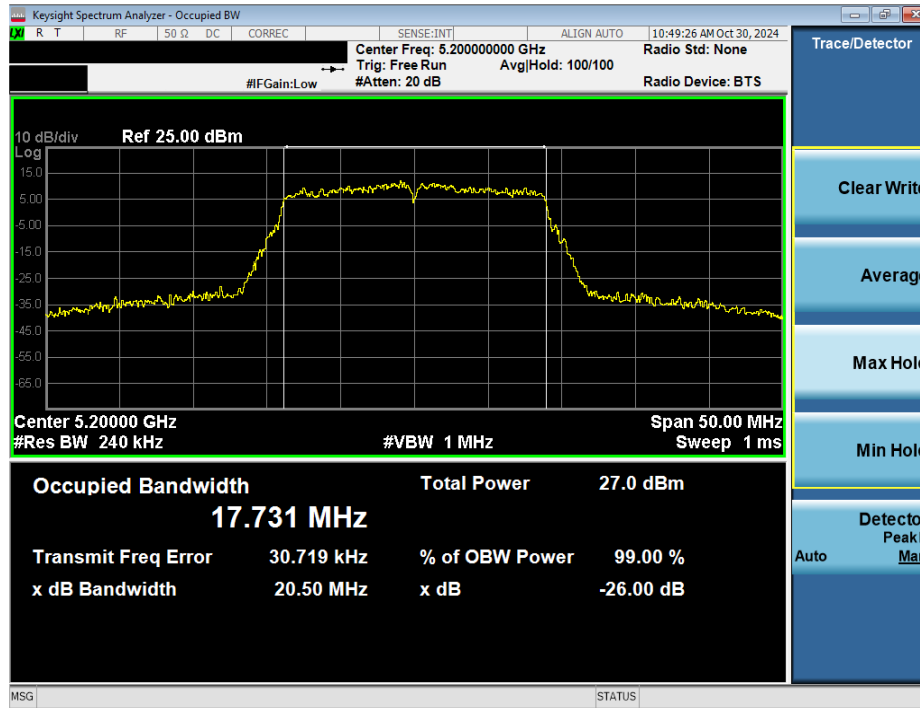
Table 7-3. Conducted Bandwidth Measurements Antenna WF2a

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

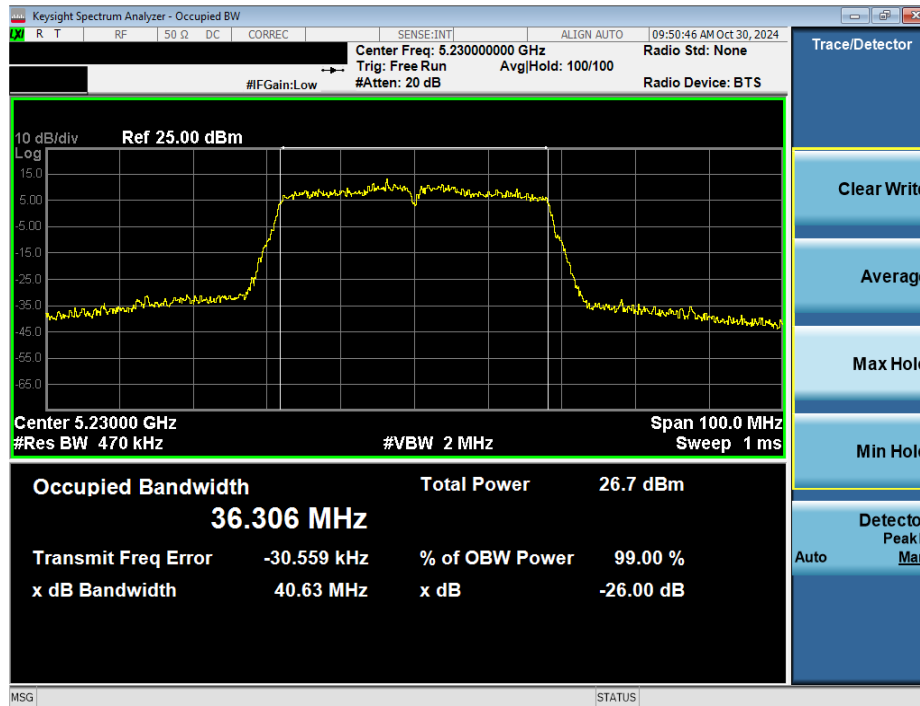
FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 22 of 272

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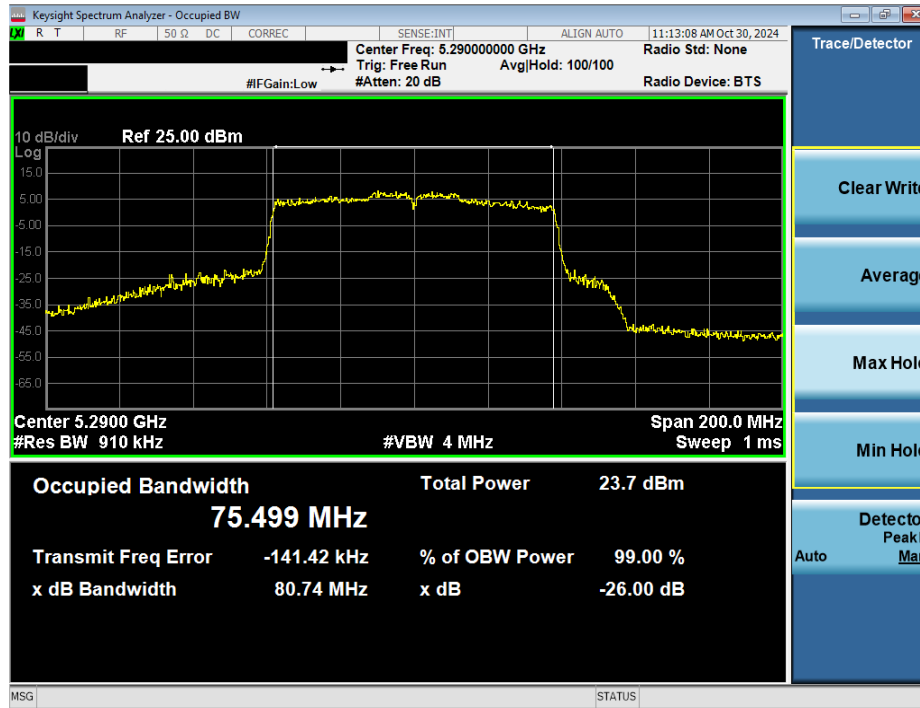


Plot 7-5. 26dB BW & 99% OBW Antenna WF2a (20MHz BW 802.11n – Ch. 40)

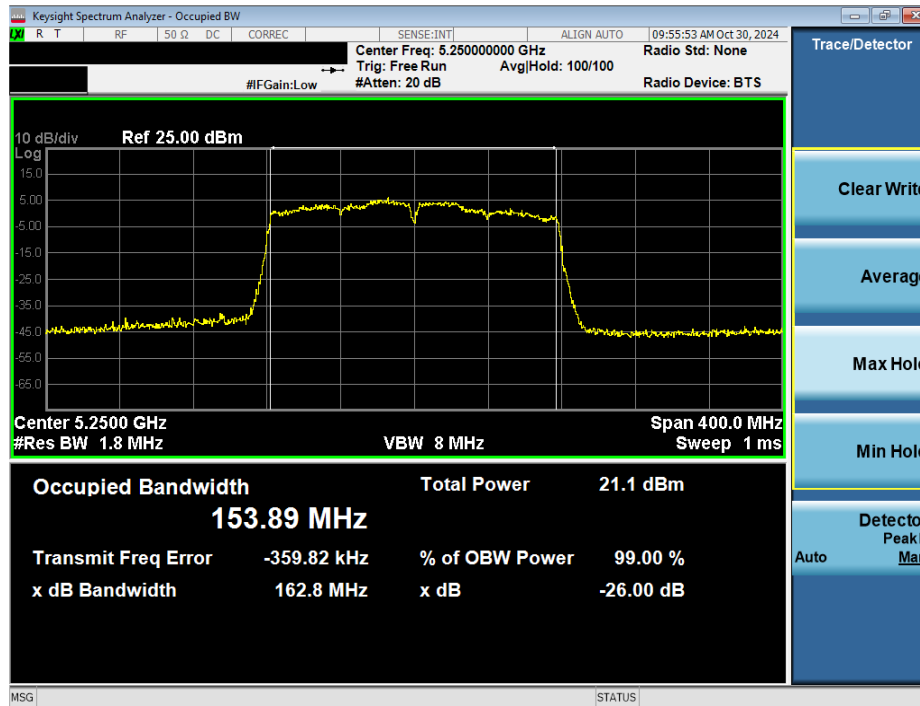


Plot 7-6. 26dB BW & 99% OBW Antenna WF2a (40MHz BW 802.11n – Ch. 46)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-7. 26dB BW & 99% OBW Antenna WF2a (80MHz BW 802.11ac – Ch. 58)



Plot 7-8. 26dB BW & 99% OBW Antenna WF2a (160MHz BW 802.11ac – Ch. 50)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.3 Antenna WF7b 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	n (20MHz)	39/43.3 (MCS4)	17.75	20.93
	5200	40	n (20MHz)	39/43.3 (MCS4)	17.71	20.71
	5240	48	n (20MHz)	39/43.3 (MCS4)	17.72	20.70
	5180	36	ax (SU) (20MHz)	135/143.4 (MCS11)	19.09	21.09
	5200	40	ax (SU) (20MHz)	49/51.6 (MCS4)	19.02	21.12
	5240	48	ax (SU) (20MHz)	135/143.4 (MCS11)	19.06	21.10
	5190	38	n (40MHz)	135/150 (MCS7)	36.39	41.19
	5230	46	n (40MHz)	40/40.5 (MCS2)	36.27	40.95
	5190	38	ax (SU) (40MHz)	271/286 (MCS11)	37.89	40.67
	5230	46	ax (SU) (40MHz)	49/51.6 (MCS2)	37.93	41.14
	5210	42	ac (80MHz)	175.5/195 (MCS4)	75.53	81.31
Band 1/2	5210	42	ax (SU) (80MHz)	567/600.5 (MCS11)	77.04	81.24
	5250	50	ac (160MHz)	87.8/97.5 (MCS2)	154.22	163.63
Band 2A	5250	50	ax (SU) (160MHz)	567/600.5 (MCS11)	156.32	164.84
	5260	52	n (20MHz)	19.5/21.7 (MCS2)	17.69	20.57
	5300	60	n (20MHz)	39/43.3 (MCS4)	17.70	20.70
	5320	64	n (20MHz)	65/72.2 (MCS7)	17.78	20.91
	5260	52	ax (SU) (20MHz)	135/143.4 (MCS11)	19.02	21.14
	5300	60	ax (SU) (20MHz)	24/25.8 (MCS2)	19.03	21.11
	5320	64	ax (SU) (20MHz)	135/143.4 (MCS11)	19.02	21.15
	5270	54	n (40MHz)	40/40.5 (MCS2)	36.22	40.96
	5310	62	n (40MHz)	135/150 (MCS7)	36.45	41.22
	5270	54	ax (SU) (40MHz)	271/286 (MCS11)	37.92	40.81
	5310	62	ax (SU) (40MHz)	271/286 (MCS11)	37.87	41.27
	5290	58	ac (80MHz)	175.5/195 (MCS4)	75.56	81.27
	5290	58	ax (SU) (80MHz)	567/600.5 (MCS11)	77.11	81.30
Band 2C	5500	100	n (20MHz)	39/43.3 (MCS4)	17.78	20.76
	5580	116	n (20MHz)	39/43.3 (MCS4)	17.70	20.66
	5720	144	n (20MHz)	39/43.3 (MCS4)	17.74	20.64
	5500	100	ax (SU) (20MHz)	49/51.6 (MCS4)	19.08	21.10
	5580	116	ax (SU) (20MHz)	135/143.4 (MCS11)	19.07	21.00
	5720	144	ax (SU) (20MHz)	49/51.6 (MCS4)	19.02	20.98
	5510	102	n (40MHz)	81/90 (MCS4)	36.42	40.85
	5550	110	n (40MHz)	40/40.5 (MCS2)	36.45	41.14
	5710	142	n (40MHz)	81/90 (MCS4)	36.32	40.36
	5510	102	ax (SU) (40MHz)	271/286 (MCS11)	37.89	41.18
	5550	110	ax (SU) (40MHz)	98/103.2 (MCS4)	37.97	41.14
	5710	142	ax (SU) (40MHz)	98/103.2 (MCS4)	37.88	41.22
	5530	106	ac (80MHz)	175.5/195 (MCS4)	75.49	81.53
	*5610	122	ac (80MHz)	175.5/195 (MCS4)	75.54	81.02
	5690	138	ac (80MHz)	87.8/97.5 (MCS2)	75.45	80.64
	5530	106	ax (SU) (80MHz)	567/600.5 (MCS11)	77.06	81.54
	*5610	122	ax (SU) (80MHz)	567/600.5 (MCS11)	77.40	81.45
	5690	138	ax (SU) (80MHz)	567/600.5 (MCS11)	77.31	81.30
	*5570	114	ac (160MHz)	175.5/195 (MCS4)	154.10	164.25
	*5570	114	ax (SU) (160MHz)	567/600.5 (MCS11)	156.19	164.89

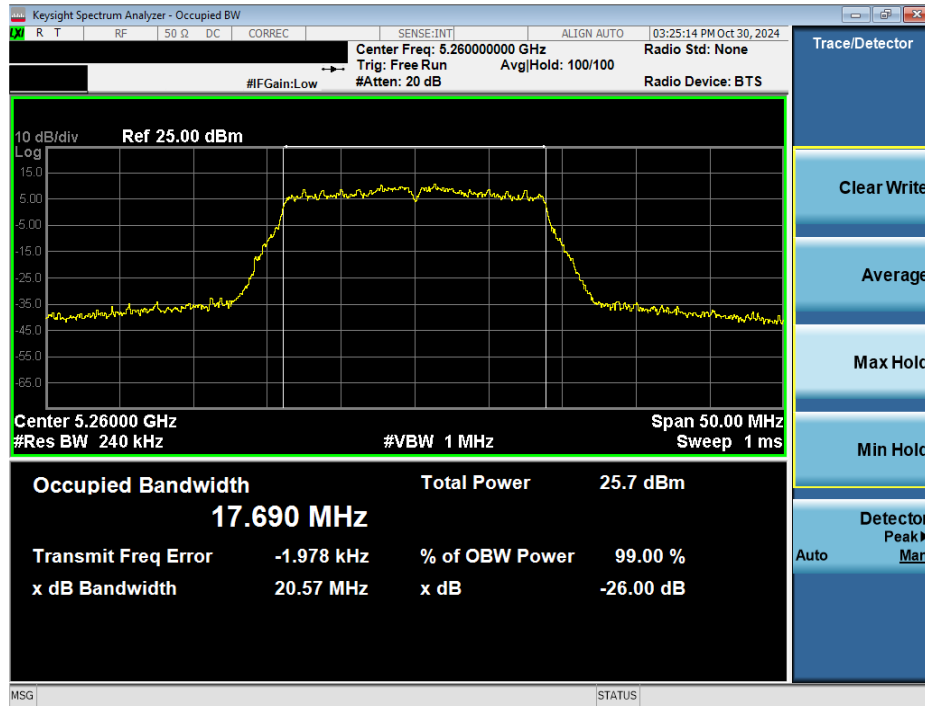
Table 7-4. Conducted Bandwidth Measurements Antenna WF7b

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

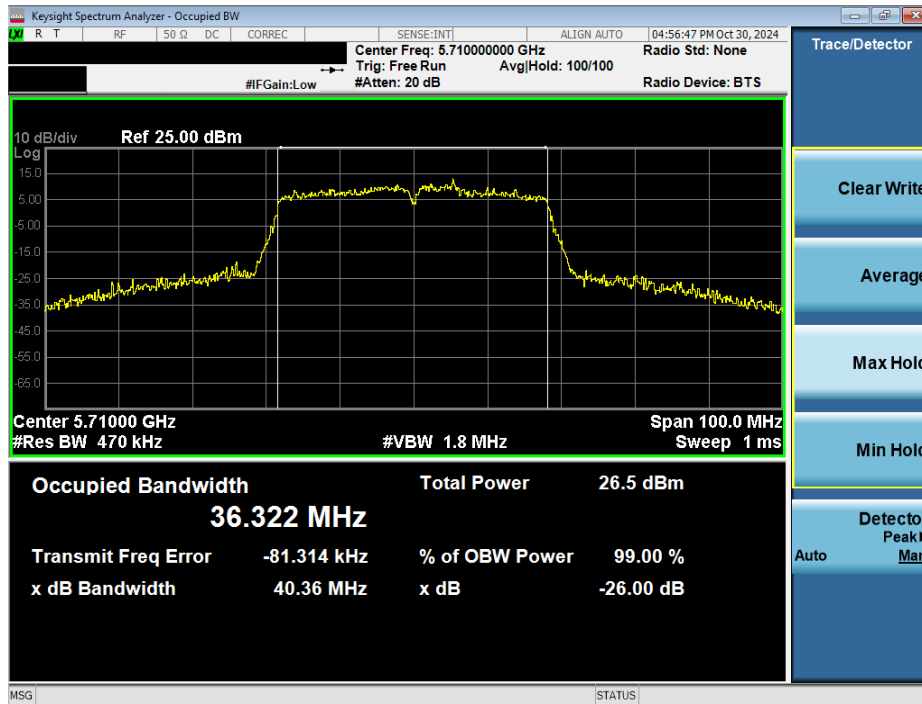
FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 25 of 272

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Plot 7-9. 26dB BW & 99% OBW Antenna WF7b (20MHz BW 802.11n – Ch. 52)

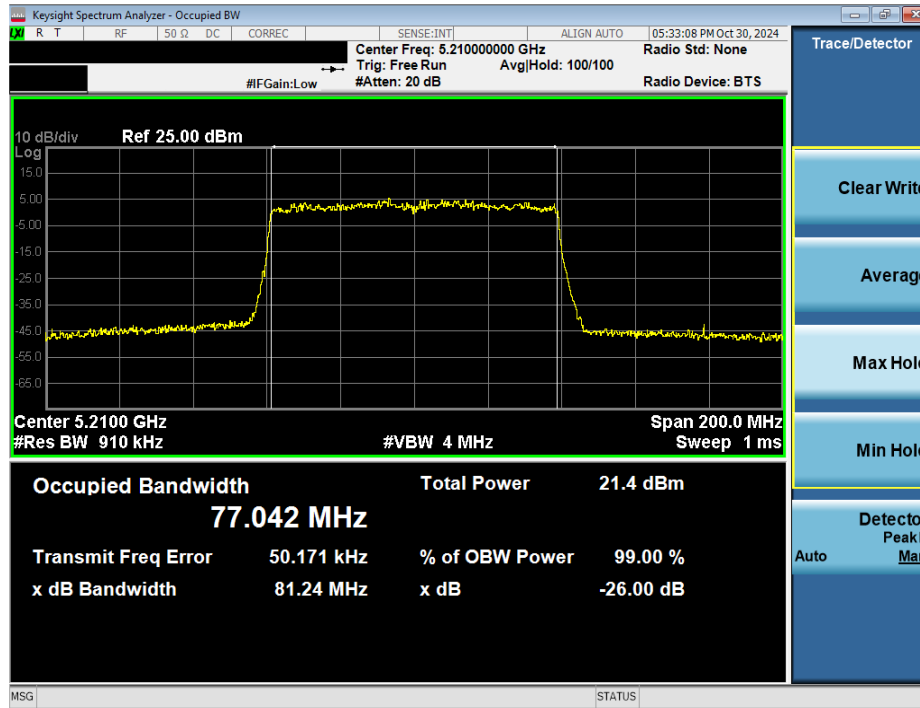


Plot 7-10. 26dB BW & 99% OBW Antenna WF7b (40MHz BW 802.11n – Ch. 142)

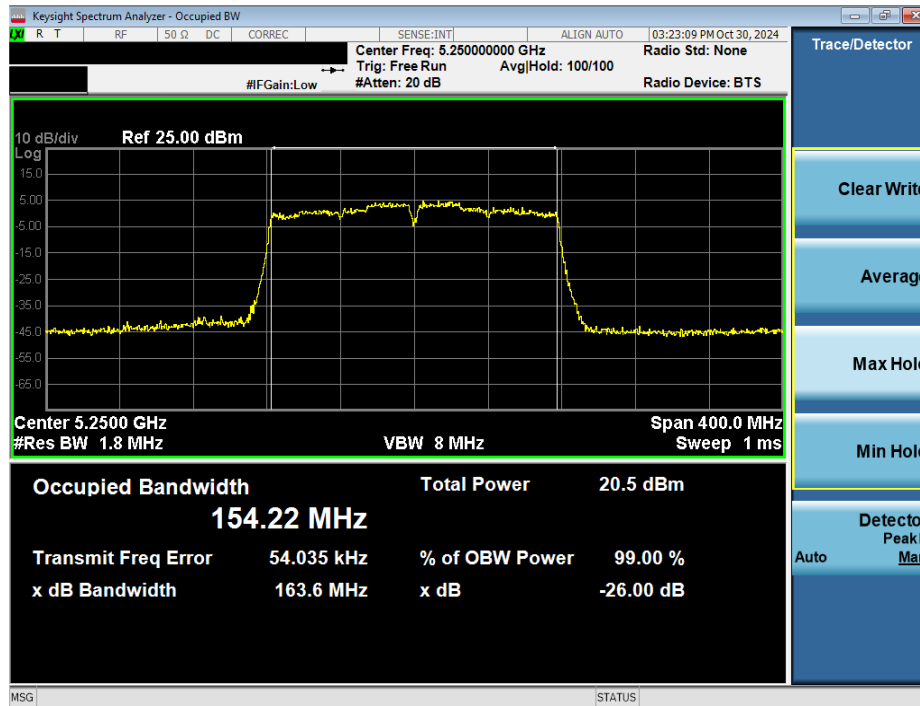
FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 26 of 272

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Plot 7-11. 26dB BW & 99% OBW Antenna WF7b (80MHz BW 802.11ac – Ch. 42)



Plot 7-12. 26dB BW & 99% OBW Antenna WF7b (160MHz BW 802.11ac – Ch. 50)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 27 of 272

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7.3 6dB & 99% Bandwidth Measurement

§2.1049; §15.407 (e); RSS-Gen [6.7]

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 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 – 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 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 = 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 have been investigated, with tabular data reported for the worst-case data rate. Only the worst case plot was reported per bandwidth which corresponds to the narrowest 6dB bandwidth.

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.3.1 Antenna WF7a 6dB & 99% Bandwidth Measurements

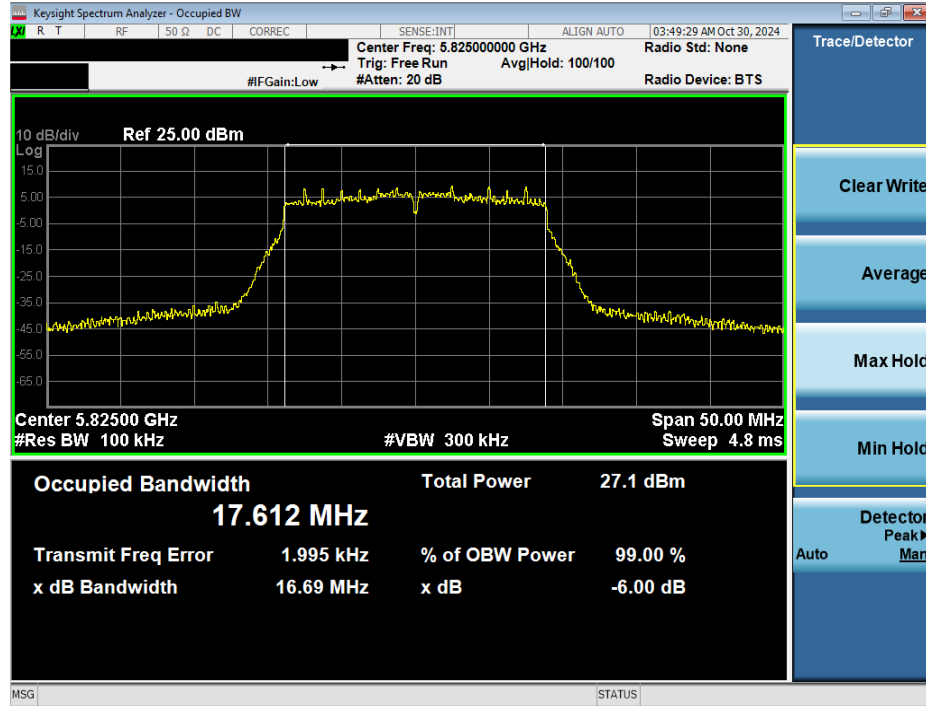
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]
Band 3	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.61	17.15
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.61	17.28
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.61	16.69
	5745	149	ax (SU) (20MHz)	24/25.8 (MCS2)	18.92	18.86
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	18.96	18.97
	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	18.94	18.94
	5755	151	n (40MHz)	40/40.5 (MCS2)	36.03	35.38
	5795	159	n (40MHz)	40/40.5 (MCS2)	36.02	35.43
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	37.80	38.11
	5795	159	ax (SU) (40MHz)	49/51.6 (MCS2)	37.75	38.01
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.32	75.60
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	77.06	77.67

Table 7-5. Conducted Bandwidth Measurements Antenna WF7a

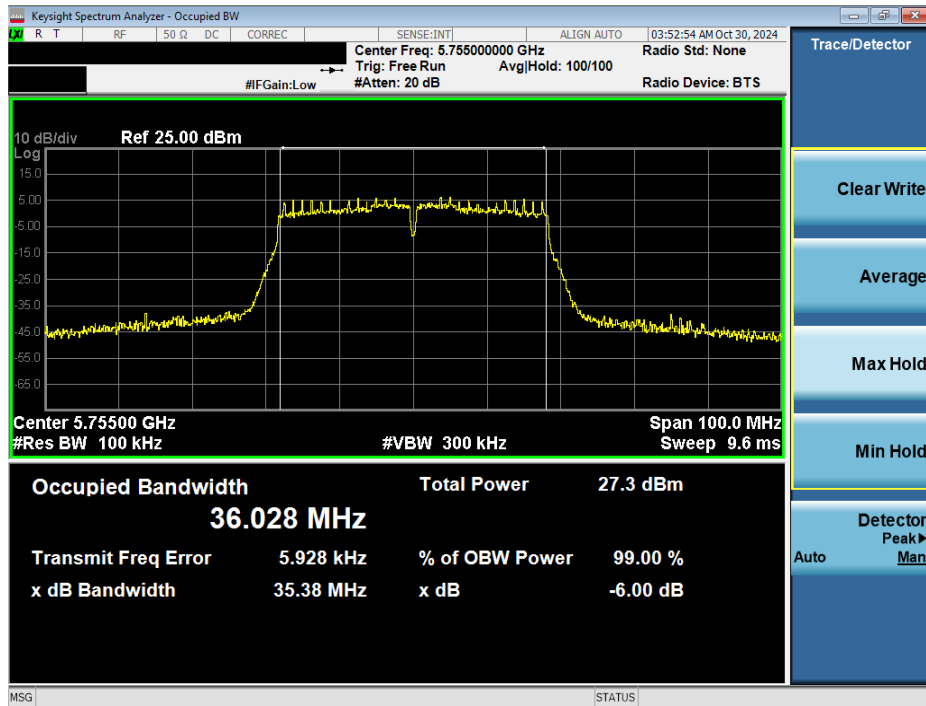
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 29 of 272

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Plot 7-13. 6dB BW & 99% OBW Antenna WF7a (20MHz BW 802.11n – Ch. 165)

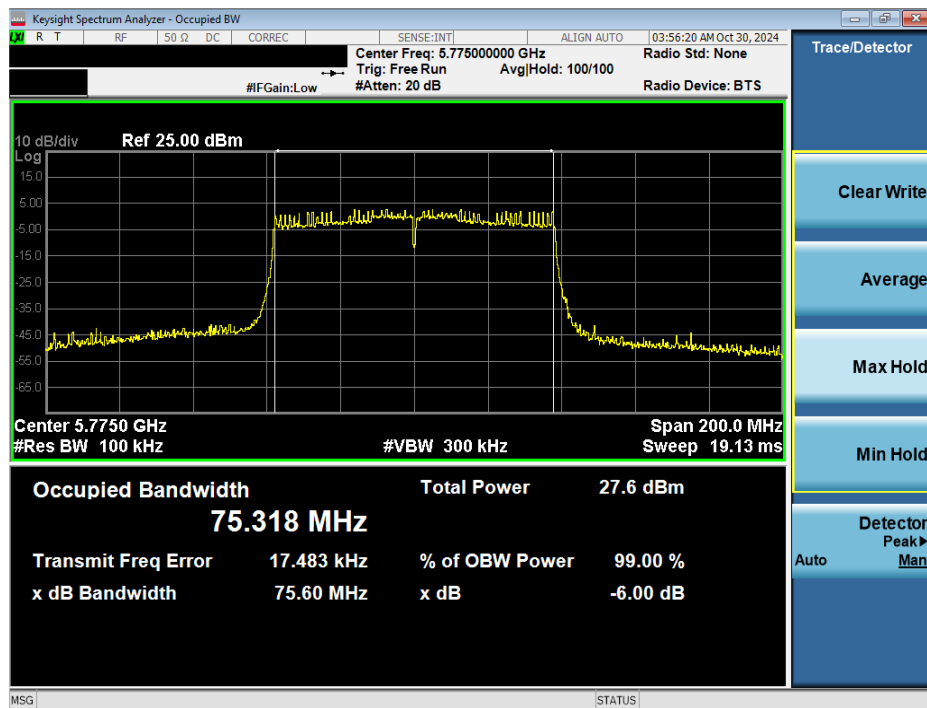


Plot 7-14. 6dB BW & 99% OBW Antenna WF7a (40MHz BW 802.11n – Ch. 151)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-15. 6dB BW & 99% OBW Antenna WF7a (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3.2 Antenna WF2a 6dB & 99% Bandwidth Measurements

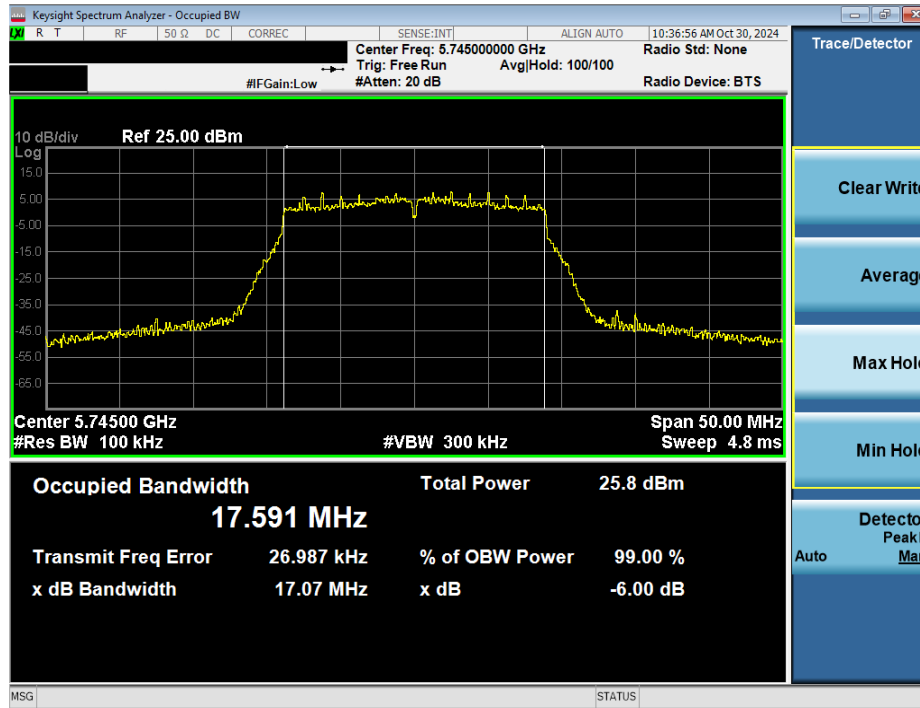
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]
Band 3	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.59	17.07
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.63
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.61	17.31
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	18.93	19.04
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	18.93	18.95
	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	18.93	18.99
	5755	151	n (40MHz)	40/40.5 (MCS2)	35.99	35.50
	5795	159	n (40MHz)	40/40.5 (MCS2)	36.00	35.60
	5755	151	ax (SU) (40MHz)	271/286 (MCS11)	37.83	38.13
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	37.75	38.10
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.32	75.58
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	76.92	77.67

Table 7-6. Conducted Bandwidth Measurements Antenna WF2a

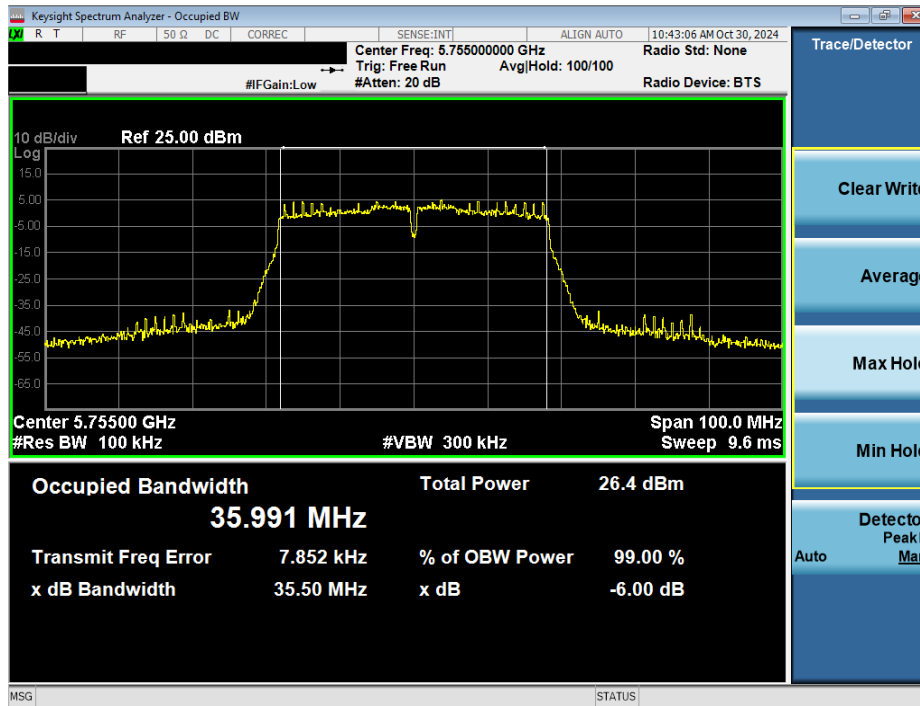
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 32 of 272

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Plot 7-16. 6dB BW & 99% OBW Antenna WF2a (20MHz BW 802.11n – Ch. 149)

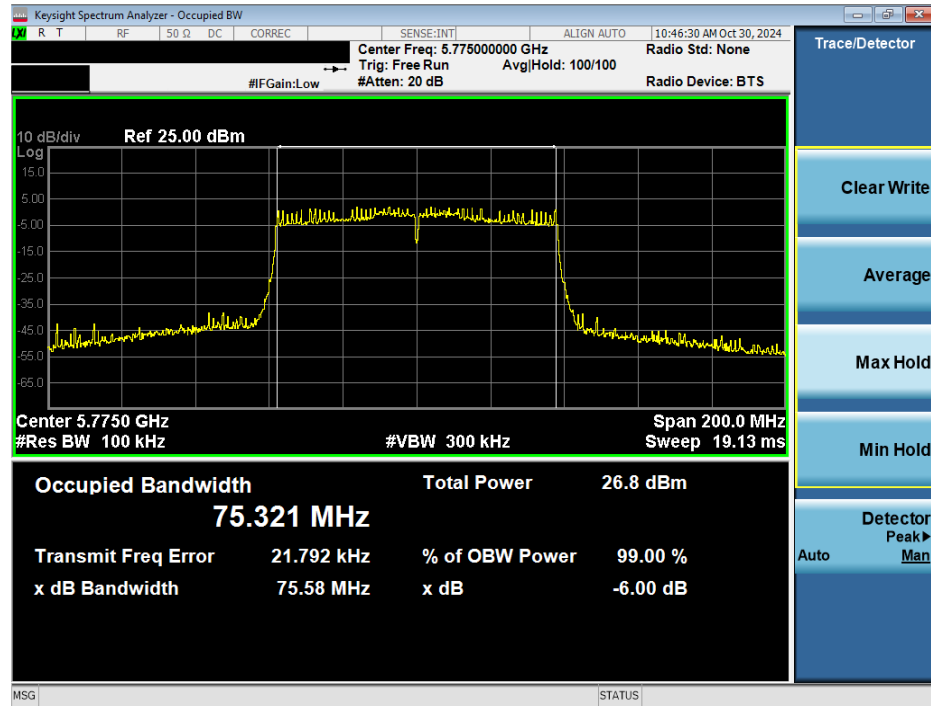


Plot 7-17. 6dB BW & 99% OBW Antenna WF2a (40MHz BW 802.11n – Ch. 151)


FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-18. 6dB BW & 99% OBW Antenna WF2a (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 34 of 272

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7.3.3 Antenna WF7b 6dB & 99% Bandwidth Measurements

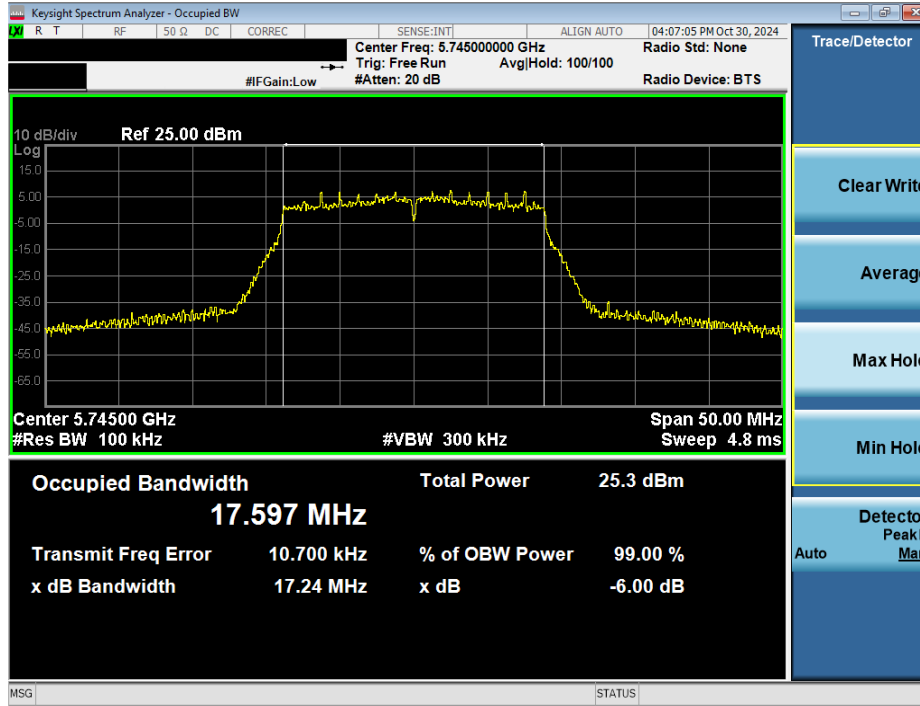
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]
Band 3	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.60	17.24
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.61	17.31
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.29
	5745	149	ax (SU) (20MHz)	24/25.8 (MCS2)	18.94	19.01
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	18.94	19.04
	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.03
	5755	151	n (40MHz)	40/40.5 (MCS2)	36.09	35.49
	5795	159	n (40MHz)	40/40.5 (MCS2)	36.09	35.90
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	37.78	38.10
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	37.78	38.15
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.33	75.60
	5775	155	ax (SU) (80MHz)	567/600.5 (MCS11)	76.89	77.56

Table 7-7. Conducted Bandwidth Measurements Antenna WF7b

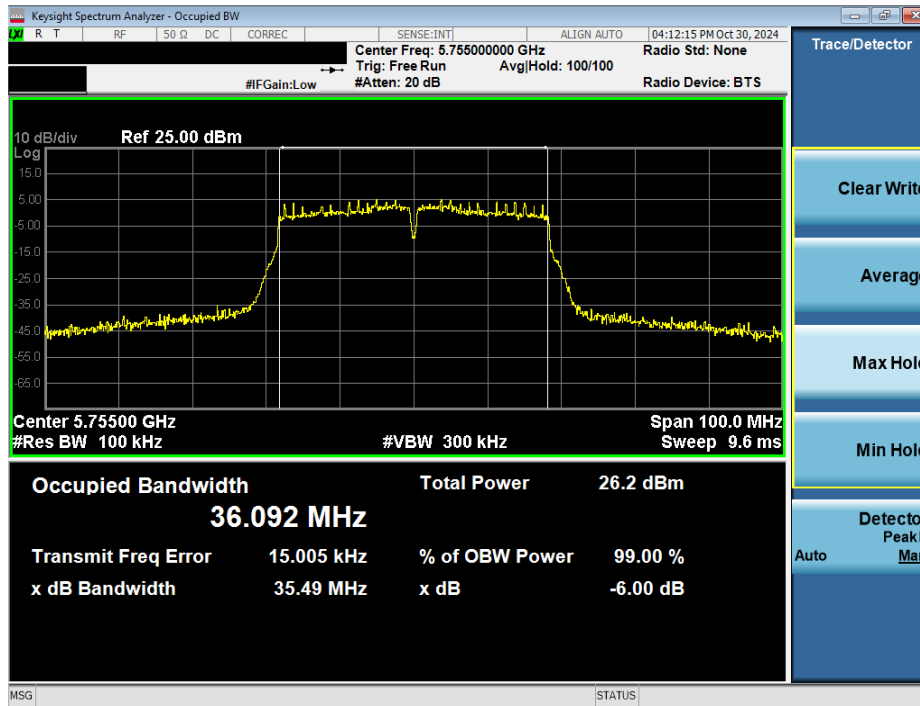
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-19. 6dB BW & 99% OBW Antenna WF7b (20MHz BW 802.11n – Ch. 149)

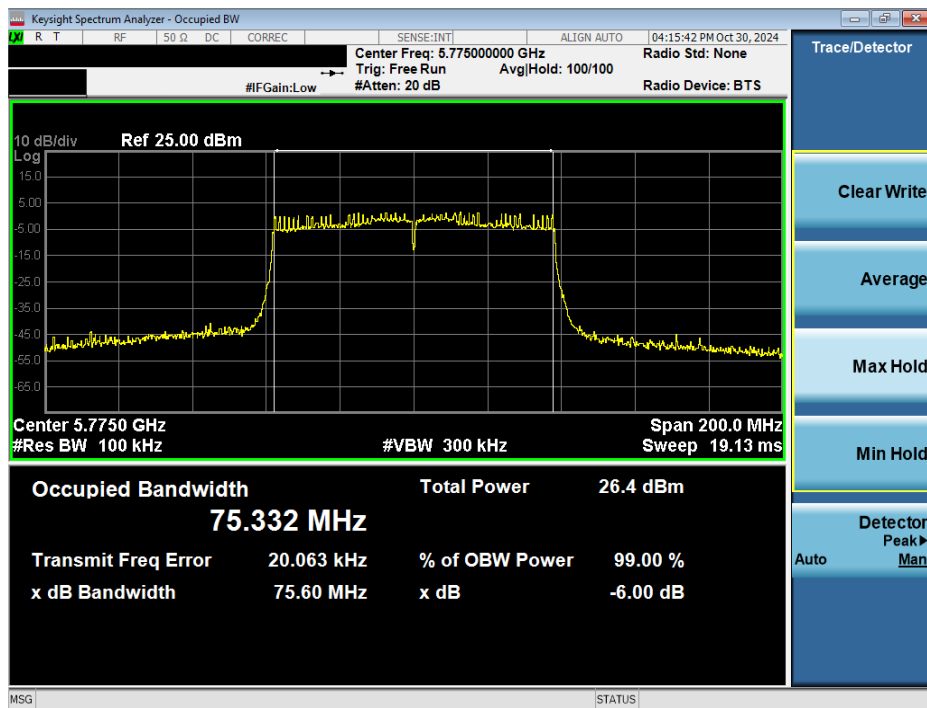


Plot 7-20. 6dB BW & 99% OBW Antenna WF7b (40MHz BW 802.11n – Ch. 151)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-21. 6dB BW & 99% OBW Antenna WF7b (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3268 IC: 579C-A3268		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 [6.2]

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 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 $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(20.57) = 24.13\text{dBm}$. 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 $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(20.64) = 24.15\text{dBm}$. 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 – Section 12.4.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G
ANSI C63.10-2020 – 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

- Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. 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 WF7a Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11a	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	12 (MCS2)	18.52	23.98	-5.46
	5200	40	12 (MCS2)	19.41	23.98	-4.57
	5240	48	12 (MCS2)	19.44	23.98	-4.54
	5260	52	12 (MCS2)	19.19	23.98	-4.79
	5300	60	12 (MCS2)	19.19	23.98	-4.79
	5320	64	12 (MCS2)	19.00	23.98	-4.98
	5500	100	12 (MCS2)	18.69	23.98	-5.29
	5520	104	12 (MCS2)	19.42	23.98	-4.56
	5540	108	12 (MCS2)	19.19	23.98	-4.79
	5580	116	12 (MCS2)	19.31	23.98	-4.67
	5660	132	12 (MCS2)	19.30	23.98	-4.68
	5680	136	12 (MCS2)	19.44	23.98	-4.54
	5700	140	12 (MCS2)	17.69	23.98	-6.29
	5720	144	12 (MCS2)	19.22	23.98	-4.76
	5745	149	12 (MCS2)	19.38	30.00	-10.62
	5785	157	12 (MCS2)	19.50	30.00	-10.50
	5825	165	12 (MCS2)	19.30	30.00	-10.70

Table 7-8. FCC Antenna WF7a 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 39 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11n	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	19.5/21.7 (MCS2)	18.52	23.98	-5.46
	5200	40	19.5/21.7 (MCS2)	19.20	23.98	-4.78
	5240	48	19.5/21.7 (MCS2)	19.33	23.98	-4.65
	5260	52	19.5/21.7 (MCS2)	19.32	23.98	-4.66
	5300	60	19.5/21.7 (MCS2)	19.26	23.98	-4.72
	5320	64	19.5/21.7 (MCS2)	18.75	23.98	-5.23
	5500	100	19.5/21.7 (MCS2)	18.85	23.98	-5.13
	5520	104	19.5/21.7 (MCS2)	19.33	23.98	-4.65
	5540	108	19.5/21.7 (MCS2)	19.48	23.98	-4.50
	5580	116	19.5/21.7 (MCS2)	19.12	23.98	-4.86
	5660	132	19.5/21.7 (MCS2)	19.30	23.98	-4.68
	5680	136	19.5/21.7 (MCS2)	19.35	23.98	-4.63
	5700	140	19.5/21.7 (MCS2)	17.79	23.98	-6.19
	5720	144	19.5/21.7 (MCS2)	19.47	23.98	-4.51
	5745	149	19.5/21.7 (MCS2)	19.17	30.00	-10.83
	5785	157	19.5/21.7 (MCS2)	19.27	30.00	-10.73
	5825	165	19.5/21.7 (MCS2)	19.26	30.00	-10.74

Table 7-9. FCC Antenna WF7a 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	24/25.8 (MCS2)	17.72	23.98	-6.26
	5200	40	24/25.8 (MCS2)	19.49	23.98	-4.49
	5240	48	24/25.8 (MCS2)	19.48	23.98	-4.50
	5260	52	24/25.8 (MCS2)	19.31	23.98	-4.67
	5300	60	24/25.8 (MCS2)	19.22	23.98	-4.76
	5320	64	24/25.8 (MCS2)	18.03	23.98	-5.95
	5500	100	24/25.8 (MCS2)	17.91	23.98	-6.07
	5520	104	24/25.8 (MCS2)	19.40	23.98	-4.58
	5540	108	24/25.8 (MCS2)	19.34	23.98	-4.64
	5580	116	24/25.8 (MCS2)	19.31	23.98	-4.67
	5660	132	24/25.8 (MCS2)	19.26	23.98	-4.72
	5680	136	24/25.8 (MCS2)	19.27	23.98	-4.71
	5700	140	24/25.8 (MCS2)	17.41	23.98	-6.57
	5720	144	24/25.8 (MCS2)	19.19	23.98	-4.79
	5745	149	24/25.8 (MCS2)	19.38	30.00	-10.62
	5785	157	24/25.8 (MCS2)	19.35	30.00	-10.65
	5825	165	24/25.8 (MCS2)	19.26	30.00	-10.74

Table 7-10. FCC Antenna WF7a 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11n	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	40/40.5 (MCS2)	16.27	23.98	-7.71
	5230	46	40/40.5 (MCS2)	19.36	23.98	-4.62
	5270	54	40/40.5 (MCS2)	19.19	23.98	-4.79
	5310	62	40/40.5 (MCS2)	17.25	23.98	-6.73
	5510	102	40/40.5 (MCS2)	15.63	23.98	-8.35
	5550	110	40/40.5 (MCS2)	19.17	23.98	-4.81
	5590	118	40/40.5 (MCS2)	19.39	23.98	-4.59
	5630	126	40/40.5 (MCS2)	19.23	23.98	-4.75
	5670	134	40/40.5 (MCS2)	19.24	23.98	-4.74
	5710	142	40/40.5 (MCS2)	19.40	23.98	-4.58
	5755	151	40/40.5 (MCS2)	19.22	30.00	-10.78
	5795	159	40/40.5 (MCS2)	19.13	30.00	-10.87

Table 7-11. FCC Antenna WF7a 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	49/51.6 (MCS2)	14.61	23.98	-9.37
	5230	46	49/51.6 (MCS2)	19.29	23.98	-4.69
	5270	54	49/51.6 (MCS2)	19.24	23.98	-4.74
	5310	62	49/51.6 (MCS2)	16.75	23.98	-7.23
	5510	102	49/51.6 (MCS2)	15.48	23.98	-8.50
	5550	110	49/51.6 (MCS2)	19.19	23.98	-4.79
	5590	118	49/51.6 (MCS2)	19.46	23.98	-4.52
	5630	126	49/51.6 (MCS2)	19.15	23.98	-4.83
	5670	134	49/51.6 (MCS2)	19.27	23.98	-4.71
	5710	142	49/51.6 (MCS2)	19.40	23.98	-4.58
	5755	151	49/51.6 (MCS2)	19.39	30.00	-10.61
	5795	159	49/51.6 (MCS2)	19.31	30.00	-10.69

Table 7-12. FCC Antenna WF7a 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ac	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	87.8/97.5 (MCS2)	14.12	23.98	-9.86
	5290	58	87.8/97.5 (MCS2)	16.27	23.98	-7.71
	5530	106	87.8/97.5 (MCS2)	14.42	23.98	-9.56
	5610	122	87.8/97.5 (MCS2)	19.23	23.98	-4.75
	5690	138	87.8/97.5 (MCS2)	19.16	23.98	-4.82
	5775	155	87.8/97.5 (MCS2)	17.61	30.00	-12.39

Table 7-13. FCC Antenna WF7a 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	102/108.1 (MCS2)	13.88	23.98	-10.10
	5290	58	102/108.1 (MCS2)	15.36	23.98	-8.62
	5530	106	102/108.1 (MCS2)	14.26	23.98	-9.72
	5610	122	102/108.1 (MCS2)	19.12	23.98	-4.86
	5690	138	102/108.1 (MCS2)	19.14	23.98	-4.84
	5775	155	102/108.1 (MCS2)	17.67	30.00	-12.33

Table 7-14. FCC Antenna WF7a 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac		
	5250	50	175.5/195 (MCS2)	13.46	23.98	-10.52
	5570	114	175.5/195 (MCS2)	13.13	23.98	-10.85

Table 7-15. FCC Antenna WF7a 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ax		
	5250	50	204/216.2 (MCS2)	13.14	23.98	-10.84
	5570	114	204/216.2 (MCS2)	13.05	23.98	-10.93

Table 7-16. FCC Antenna WF7a 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.2 ISED Antenna WF7a Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11a						
	5180	36	12 (MCS2)	17.68	-	-	0.90	18.58	23.01	-4.44
	5200	40	12 (MCS2)	17.88	-	-	0.90	18.78	23.01	-4.23
	5240	48	12 (MCS2)	17.87	-	-	0.90	18.77	23.01	-4.24
	5260	52	12 (MCS2)	19.19	23.98	-4.79	2.30	21.49	30.00	-8.51
	5300	60	12 (MCS2)	19.19	23.98	-4.79	2.30	21.49	30.00	-8.51
	5320	64	12 (MCS2)	19.00	23.98	-4.98	2.30	21.30	30.00	-8.70
	5500	100	12 (MCS2)	18.69	23.98	-5.29	2.60	21.29	30.00	-8.71
	5520	104	12 (MCS2)	19.42	23.98	-4.56	2.60	22.02	30.00	-7.99
	5540	108	12 (MCS2)	19.19	23.98	-4.79	2.60	21.79	30.00	-8.21
	5580	116	12 (MCS2)	19.31	23.98	-4.67	2.60	21.91	30.00	-8.09
	5660	132	12 (MCS2)	19.30	23.98	-4.68	2.60	21.90	30.00	-8.10
	5680	136	12 (MCS2)	19.44	23.98	-4.54	2.60	22.04	30.00	-7.96
	5700	140	12 (MCS2)	17.69	23.98	-6.29	2.60	20.29	30.00	-9.71
	5720	144	12 (MCS2)	19.22	23.98	-4.76	2.60	21.82	30.00	-8.18
	5745	149	12 (MCS2)	19.38	30.00	-10.62	1.70	21.08	-	-
	5785	157	12 (MCS2)	19.50	30.00	-10.50	1.70	21.20	-	-
	5825	165	12 (MCS2)	19.30	30.00	-10.70	1.70	21.00	-	-

Table 7-17. ISED Antenna WF7a 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11n						
	5180	36	19.5/21.7 (MCS2)	17.80	-	-	0.90	18.70	23.01	-4.31
	5200	40	19.5/21.7 (MCS2)	17.83	-	-	0.90	18.73	23.01	-4.28
	5240	48	19.5/21.7 (MCS2)	17.77	-	-	0.90	18.67	23.01	-4.34
	5260	52	19.5/21.7 (MCS2)	19.32	23.98	-4.66	2.30	21.62	30.00	-8.38
	5300	60	19.5/21.7 (MCS2)	19.26	23.98	-4.72	2.30	21.56	30.00	-8.44
	5320	64	19.5/21.7 (MCS2)	18.75	23.98	-5.23	2.30	21.05	30.00	-8.95
	5500	100	19.5/21.7 (MCS2)	18.85	23.98	-5.13	2.60	21.45	30.00	-8.55
	5520	104	19.5/21.7 (MCS2)	19.33	23.98	-4.65	2.60	21.93	30.00	-8.07
	5540	108	19.5/21.7 (MCS2)	19.48	23.98	-4.50	2.60	22.08	30.00	-7.92
	5580	116	19.5/21.7 (MCS2)	19.12	23.98	-4.86	2.60	21.72	30.00	-8.28
	5660	132	19.5/21.7 (MCS2)	19.30	23.98	-4.68	2.60	21.90	30.00	-8.10
	5680	136	19.5/21.7 (MCS2)	19.35	23.98	-4.63	2.60	21.95	30.00	-8.05
	5700	140	19.5/21.7 (MCS2)	17.79	23.98	-6.19	2.60	20.39	30.00	-9.61
	5720	144	19.5/21.7 (MCS2)	19.47	23.98	-4.51	2.60	22.07	30.00	-7.93
	5745	149	19.5/21.7 (MCS2)	19.17	30.00	-10.83	1.70	20.87	-	-
	5785	157	19.5/21.7 (MCS2)	19.27	30.00	-10.73	1.70	20.97	-	-
	5825	165	19.5/21.7 (MCS2)	19.26	30.00	-10.74	1.70	20.96	-	-

Table 7-18. ISED Antenna WF7a 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 44 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5180	36	24/25.8 (MCS2)	17.90	-	-	0.90	18.80	23.01	-4.21
	5200	40	24/25.8 (MCS2)	18.99	-	-	0.90	19.89	23.01	-3.12
	5240	48	24/25.8 (MCS2)	18.77	-	-	0.90	19.67	23.01	-3.35
	5260	52	24/25.8 (MCS2)	19.31	23.98	-4.67	2.30	21.61	30.00	-8.40
	5300	60	24/25.8 (MCS2)	19.22	23.98	-4.76	2.30	21.52	30.00	-8.48
	5320	64	24/25.8 (MCS2)	18.03	23.98	-5.95	2.30	20.33	30.00	-9.68
	5500	100	24/25.8 (MCS2)	17.91	23.98	-6.07	2.60	20.51	30.00	-9.49
	5520	104	24/25.8 (MCS2)	19.40	23.98	-4.58	2.60	22.00	30.00	-8.01
	5540	108	24/25.8 (MCS2)	19.34	23.98	-4.64	2.60	21.94	30.00	-8.06
	5580	116	24/25.8 (MCS2)	19.31	23.98	-4.67	2.60	21.91	30.00	-8.09
	5660	132	24/25.8 (MCS2)	19.26	23.98	-4.72	2.60	21.86	30.00	-8.14
	5680	136	24/25.8 (MCS2)	19.27	23.98	-4.71	2.60	21.87	30.00	-8.13
	5700	140	24/25.8 (MCS2)	17.41	23.98	-6.57	2.60	20.01	30.00	-9.99
	5720	144	24/25.8 (MCS2)	19.19	23.98	-4.79	2.60	21.79	30.00	-8.21
	5745	149	24/25.8 (MCS2)	19.38	30.00	-10.62	1.70	21.08	-	-
	5785	157	24/25.8 (MCS2)	19.35	30.00	-10.65	1.70	21.05	-	-
	5825	165	24/25.8 (MCS2)	19.26	30.00	-10.74	1.70	20.96	-	-

Table 7-19. ISSED Antenna WF7a 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11n						
	5190	38	40/40.5 (MCS2)	16.43	-	-	0.90	17.33	23.01	-5.68
	5230	46	40/40.5 (MCS2)	19.42	-	-	0.90	20.32	23.01	-2.69
	5270	54	40/40.5 (MCS2)	19.19	23.98	-4.79	2.30	21.49	30.00	-8.51
	5310	62	40/40.5 (MCS2)	17.25	23.98	-6.73	2.30	19.55	30.00	-10.45
	5510	102	40/40.5 (MCS2)	15.63	23.98	-8.35	2.60	18.23	30.00	-11.77
	5550	110	40/40.5 (MCS2)	19.17	23.98	-4.81	2.60	21.77	30.00	-8.23
	5670	134	40/40.5 (MCS2)	19.24	23.98	-4.74	2.60	21.84	30.00	-8.16
	5710	142	40/40.5 (MCS2)	19.40	23.98	-4.58	2.60	22.00	30.00	-8.00
	5755	151	40/40.5 (MCS2)	19.22	30.00	-10.78	1.70	20.92	-	-
	5795	159	40/40.5 (MCS2)	19.13	30.00	-10.87	1.70	20.83	-	-

Table 7-20. ISSED Antenna WF7a 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5190	38	49/51.6 (MCS2)	14.88	-	-	0.90	15.78	23.01	-7.23
	5230	46	49/51.6 (MCS2)	19.45	-	-	0.90	20.35	23.01	-2.66
	5270	54	49/51.6 (MCS2)	19.24	23.98	-4.74	2.30	21.54	30.00	-8.46
	5310	62	49/51.6 (MCS2)	16.75	23.98	-7.23	2.30	19.05	30.00	-10.95
	5510	102	49/51.6 (MCS2)	15.48	23.98	-8.50	2.60	18.08	30.00	-11.92
	5550	110	49/51.6 (MCS2)	19.19	23.98	-4.79	2.60	21.79	30.00	-8.21
	5670	134	49/51.6 (MCS2)	19.27	23.98	-4.71	2.60	21.87	30.00	-8.14
	5710	142	49/51.6 (MCS2)	19.40	23.98	-4.58	2.60	22.00	30.00	-8.00
	5755	151	49/51.6 (MCS2)	19.39	30.00	-10.61	1.70	21.09	-	-
	5795	159	49/51.6 (MCS2)	19.31	30.00	-10.69	1.70	21.01	-	-

Table 7-21. ISSED Antenna WF7a 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 45 of 272

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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ac						
	5210	42	87.8/97.5 (MCS2)	14.35	-	-	0.90	15.25	23.01	-7.76
	5290	58	87.8/97.5 (MCS2)	16.27	23.98	-7.71	2.30	18.57	30.00	-11.44
	5530	106	87.8/97.5 (MCS2)	14.42	23.98	-9.56	2.60	17.02	30.00	-12.98
	5690	138	87.8/97.5 (MCS2)	19.16	23.98	-4.82	2.60	21.76	30.00	-8.24
	5775	155	87.8/97.5 (MCS2)	17.61	30.00	-12.39	1.70	19.31	-	-

Table 7-22. ISSED Antenna WF7a 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5210	42	102/108.1 (MCS2)	13.66	-	-	0.90	14.56	23.01	-8.45
	5290	58	102/108.1 (MCS2)	15.36	23.98	-8.62	2.30	17.66	30.00	-12.34
	5530	106	102/108.1 (MCS2)	14.26	23.98	-9.72	2.60	16.86	30.00	-13.14
	5690	138	102/108.1 (MCS2)	19.14	23.98	-4.84	2.60	21.74	30.00	-8.26
	5775	155	102/108.1 (MCS2)	17.67	30.00	-12.33	1.70	19.37	-	-

Table 7-23. ISSED Antenna WF7a 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ac						
	5250	50	175.5/195 (MCS2)	13.41	23.98	-10.57	0.90	14.31	23.01	-8.70

Table 7-24. ISSED Antenna WF7a 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5250	50	204/216.2 (MCS2)	13.31	23.98	-10.67	0.90	14.21	23.01	-8.80

Table 7-25. ISSED Antenna WF7a 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.3 FCC Antenna WF2a Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11a	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	12 (MCS2)	18.37	23.98	-5.61
	5200	40	12 (MCS2)	19.40	23.98	-4.58
	5240	48	12 (MCS2)	19.44	23.98	-4.54
	5260	52	12 (MCS2)	19.41	23.98	-4.57
	5300	60	12 (MCS2)	19.33	23.98	-4.65
	5320	64	12 (MCS2)	18.85	23.98	-5.13
	5500	100	12 (MCS2)	18.72	23.98	-5.26
	5520	104	12 (MCS2)	19.42	23.98	-4.56
	5540	108	12 (MCS2)	19.14	23.98	-4.84
	5580	116	12 (MCS2)	19.37	23.98	-4.61
	5660	132	12 (MCS2)	19.29	23.98	-4.69
	5680	136	12 (MCS2)	19.35	23.98	-4.63
	5700	140	12 (MCS2)	17.95	23.98	-6.03
	5720	144	12 (MCS2)	19.26	23.98	-4.72
	5745	149	12 (MCS2)	19.17	30.00	-10.83
	5785	157	12 (MCS2)	19.25	30.00	-10.75
	5825	165	12 (MCS2)	19.37	30.00	-10.63

Table 7-26. FCC Antenna WF2a 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11n	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	19.5/21.7 (MCS2)	18.41	23.98	-5.57
	5200	40	19.5/21.7 (MCS2)	19.47	23.98	-4.51
	5240	48	19.5/21.7 (MCS2)	19.44	23.98	-4.54
	5260	52	19.5/21.7 (MCS2)	19.33	23.98	-4.65
	5300	60	19.5/21.7 (MCS2)	19.37	23.98	-4.61
	5320	64	19.5/21.7 (MCS2)	18.81	23.98	-5.17
	5500	100	19.5/21.7 (MCS2)	18.74	23.98	-5.24
	5520	104	19.5/21.7 (MCS2)	19.30	23.98	-4.68
	5540	108	19.5/21.7 (MCS2)	19.28	23.98	-4.70
	5580	116	19.5/21.7 (MCS2)	19.10	23.98	-4.88
	5660	132	19.5/21.7 (MCS2)	19.24	23.98	-4.74
	5680	136	19.5/21.7 (MCS2)	19.21	23.98	-4.77
	5700	140	19.5/21.7 (MCS2)	17.67	23.98	-6.31
	5720	144	19.5/21.7 (MCS2)	19.21	23.98	-4.77
	5745	149	19.5/21.7 (MCS2)	19.49	30.00	-10.51
	5785	157	19.5/21.7 (MCS2)	19.47	30.00	-10.53
	5825	165	19.5/21.7 (MCS2)	19.27	30.00	-10.73

Table 7-27. FCC Antenna WF2a 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	24/25.8 (MCS2)	17.96	23.98	-6.02
	5200	40	24/25.8 (MCS2)	19.31	23.98	-4.67
	5240	48	24/25.8 (MCS2)	19.14	23.98	-4.84
	5260	52	24/25.8 (MCS2)	19.17	23.98	-4.81
	5300	60	24/25.8 (MCS2)	19.16	23.98	-4.82
	5320	64	24/25.8 (MCS2)	18.12	23.98	-5.86
	5500	100	24/25.8 (MCS2)	17.81	23.98	-6.17
	5520	104	24/25.8 (MCS2)	19.12	23.98	-4.86
	5540	108	24/25.8 (MCS2)	19.29	23.98	-4.69
	5580	116	24/25.8 (MCS2)	19.13	23.98	-4.85
	5660	132	24/25.8 (MCS2)	19.40	23.98	-4.58
	5680	136	24/25.8 (MCS2)	19.48	23.98	-4.50
	5700	140	24/25.8 (MCS2)	17.42	23.98	-6.56
	5720	144	24/25.8 (MCS2)	19.41	23.98	-4.57
	5745	149	24/25.8 (MCS2)	19.38	30.00	-10.62
	5785	157	24/25.8 (MCS2)	19.48	30.00	-10.52
	5825	165	24/25.8 (MCS2)	19.47	30.00	-10.54

Table 7-28. FCC Antenna WF2a 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11n	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	40/40.5 (MCS2)	16.22	23.98	-7.76
	5230	46	40/40.5 (MCS2)	19.20	23.98	-4.78
	5270	54	40/40.5 (MCS2)	19.21	23.98	-4.77
	5310	62	40/40.5 (MCS2)	17.38	23.98	-6.60
	5510	102	40/40.5 (MCS2)	15.85	23.98	-8.13
	5550	110	40/40.5 (MCS2)	19.14	23.98	-4.84
	5590	118	40/40.5 (MCS2)	19.42	23.98	-4.56
	5630	126	40/40.5 (MCS2)	19.49	23.98	-4.49
	5670	134	40/40.5 (MCS2)	19.27	23.98	-4.71
	5710	142	40/40.5 (MCS2)	19.45	23.98	-4.53
	5755	151	40/40.5 (MCS2)	19.34	30.00	-10.66
	5795	159	40/40.5 (MCS2)	19.28	30.00	-10.72

Table 7-29. FCC Antenna WF2a 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	49/51.6 (MCS2)	14.61	23.98	-9.37
	5230	46	49/51.6 (MCS2)	19.29	23.98	-4.69
	5270	54	49/51.6 (MCS2)	19.24	23.98	-4.74
	5310	62	49/51.6 (MCS2)	16.75	23.98	-7.23
	5510	102	49/51.6 (MCS2)	15.48	23.98	-8.50
	5550	110	49/51.6 (MCS2)	19.19	23.98	-4.79
	5590	118	49/51.6 (MCS2)	19.46	23.98	-4.52
	5630	126	49/51.6 (MCS2)	19.15	23.98	-4.83
	5670	134	49/51.6 (MCS2)	19.27	23.98	-4.71
	5710	142	49/51.6 (MCS2)	19.40	23.98	-4.58
	5755	151	49/51.6 (MCS2)	19.39	30.00	-10.61
	5795	159	49/51.6 (MCS2)	19.31	30.00	-10.69

Table 7-30. FCC Antenna WF2a 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ac	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	87.8/97.5 (MCS2)	14.48	23.98	-9.50
	5290	58	87.8/97.5 (MCS2)	16.30	23.98	-7.68
	5530	106	87.8/97.5 (MCS2)	14.46	23.98	-9.52
	5610	122	87.8/97.5 (MCS2)	19.24	23.98	-4.74
	5690	138	87.8/97.5 (MCS2)	19.12	23.98	-4.86
	5775	155	87.8/97.5 (MCS2)	17.99	30.00	-12.01

Table 7-31. FCC Antenna WF2a 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	102/108.1 (MCS2)	13.96	23.98	-10.02
	5290	58	102/108.1 (MCS2)	15.65	23.98	-8.33
	5530	106	102/108.1 (MCS2)	14.45	23.98	-9.53
	5610	122	102/108.1 (MCS2)	19.31	23.98	-4.67
	5690	138	102/108.1 (MCS2)	19.49	23.98	-4.49
	5775	155	102/108.1 (MCS2)	17.64	30.00	-12.36

Table 7-32. FCC Antenna WF2a 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac		
	5250	50	175.5/195 (MCS2)	13.12	23.98	-10.86
	5570	114	175.5/195 (MCS2)	13.15	23.98	-10.83

Table 7-33. FCC Antenna WF2a 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ax		
	5250	50	204/216.2 (MCS2)	13.27	23.98	-10.71
	5570	114	204/216.2 (MCS2)	13.19	23.98	-10.79

Table 7-34. FCC Antenna WF2a 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.4 ISED Antenna WF2a Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11a						
	5180	36	12 (MCS2)	17.66	-	-	0.70	18.36	23.01	-4.65
	5200	40	12 (MCS2)	17.85	-	-	0.70	18.55	23.01	-4.47
	5240	48	12 (MCS2)	17.82	-	-	0.70	18.52	23.01	-4.49
	5260	52	12 (MCS2)	19.41	23.98	-4.57	1.60	21.01	30.00	-8.99
	5300	60	12 (MCS2)	19.33	23.98	-4.65	1.60	20.93	30.00	-9.07
	5320	64	12 (MCS2)	18.85	23.98	-5.13	1.60	20.45	30.00	-9.55
	5500	100	12 (MCS2)	18.72	23.98	-5.26	2.20	20.92	30.00	-9.08
	5520	104	12 (MCS2)	19.42	23.98	-4.56	2.20	21.62	30.00	-8.38
	5540	108	12 (MCS2)	19.14	23.98	-4.84	2.20	21.34	30.00	-8.66
	5580	116	12 (MCS2)	19.37	23.98	-4.61	2.20	21.57	30.00	-8.43
	5660	132	12 (MCS2)	19.29	23.98	-4.69	2.20	21.49	30.00	-8.51
	5680	136	12 (MCS2)	19.35	23.98	-4.63	2.20	21.55	30.00	-8.45
	5700	140	12 (MCS2)	17.95	23.98	-6.03	2.20	20.15	30.00	-9.85
	5720	144	12 (MCS2)	19.26	23.98	-4.72	2.20	21.46	30.00	-8.54
	5745	149	12 (MCS2)	19.17	30.00	-10.83	2.20	21.37	-	-
	5785	157	12 (MCS2)	19.25	30.00	-10.75	2.20	21.45	-	-
	5825	165	12 (MCS2)	19.37	30.00	-10.63	2.20	21.57	-	-

Table 7-35. ISED Antenna WF2a 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11n						
	5180	36	19.5/21.7 (MCS2)	17.84	-	-	0.70	18.54	23.01	-4.47
	5200	40	19.5/21.7 (MCS2)	17.96	-	-	0.70	18.66	23.01	-4.35
	5240	48	19.5/21.7 (MCS2)	17.83	-	-	0.70	18.53	23.01	-4.48
	5260	52	19.5/21.7 (MCS2)	19.33	23.98	-4.65	1.60	20.93	30.00	-9.07
	5300	60	19.5/21.7 (MCS2)	19.37	23.98	-4.61	1.60	20.97	30.00	-9.03
	5320	64	19.5/21.7 (MCS2)	18.81	23.98	-5.17	1.60	20.41	30.00	-9.59
	5500	100	19.5/21.7 (MCS2)	18.74	23.98	-5.24	2.20	20.94	30.00	-9.06
	5520	104	19.5/21.7 (MCS2)	19.30	23.98	-4.68	2.20	21.50	30.00	-8.50
	5540	108	19.5/21.7 (MCS2)	19.28	23.98	-4.70	2.20	21.48	30.00	-8.52
	5580	116	19.5/21.7 (MCS2)	19.10	23.98	-4.88	2.20	21.30	30.00	-8.70
	5660	132	19.5/21.7 (MCS2)	19.24	23.98	-4.74	2.20	21.44	30.00	-8.56
	5680	136	19.5/21.7 (MCS2)	19.21	23.98	-4.77	2.20	21.41	30.00	-8.59
	5700	140	19.5/21.7 (MCS2)	17.67	23.98	-6.31	2.20	19.87	30.00	-10.14
	5720	144	19.5/21.7 (MCS2)	19.21	23.98	-4.77	2.20	21.41	30.00	-8.59
	5745	149	19.5/21.7 (MCS2)	19.49	30.00	-10.51	2.20	21.69	-	-
	5785	157	19.5/21.7 (MCS2)	19.47	30.00	-10.53	2.20	21.67	-	-
	5825	165	19.5/21.7 (MCS2)	19.27	30.00	-10.73	2.20	21.47	-	-

Table 7-36. ISED Antenna WF2a 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device		Page 52 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5180	36	24/25.8 (MCS2)	17.85	-	-	0.70	18.55	23.01	-4.46
	5200	40	24/25.8 (MCS2)	18.70	-	-	0.70	19.40	23.01	-3.61
	5240	48	24/25.8 (MCS2)	18.77	-	-	0.70	19.47	23.01	-3.54
	5260	52	24/25.8 (MCS2)	19.17	23.98	-4.81	1.60	20.77	30.00	-9.23
	5300	60	24/25.8 (MCS2)	19.16	23.98	-4.82	1.60	20.76	30.00	-9.24
	5320	64	24/25.8 (MCS2)	18.12	23.98	-5.86	1.60	19.72	30.00	-10.28
	5500	100	24/25.8 (MCS2)	17.81	23.98	-6.17	2.20	20.01	30.00	-9.99
	5520	104	24/25.8 (MCS2)	19.12	23.98	-4.86	2.20	21.32	30.00	-8.68
	5540	108	24/25.8 (MCS2)	19.29	23.98	-4.69	2.20	21.49	30.00	-8.51
	5580	116	24/25.8 (MCS2)	19.13	23.98	-4.85	2.20	21.33	30.00	-8.67
	5660	132	24/25.8 (MCS2)	19.40	23.98	-4.58	2.20	21.60	30.00	-8.40
	5680	136	24/25.8 (MCS2)	19.48	23.98	-4.50	2.20	21.68	30.00	-8.32
	5700	140	24/25.8 (MCS2)	17.42	23.98	-6.56	2.20	19.62	30.00	-10.38
	5720	144	24/25.8 (MCS2)	19.41	23.98	-4.57	2.20	21.61	30.00	-8.39
	5745	149	24/25.8 (MCS2)	19.38	30.00	-10.62	2.20	21.58	-	-
	5785	157	24/25.8 (MCS2)	19.48	30.00	-10.52	2.20	21.68	-	-
	5825	165	24/25.8 (MCS2)	19.47	30.00	-10.54	2.20	21.67	-	-

Table 7-37. ISSED Antenna WF2a 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11n						
	5190	38	40/40.5 (MCS2)	16.16	-	-	0.70	16.86	23.01	-6.15
	5230	46	40/40.5 (MCS2)	19.46	-	-	0.70	20.16	23.01	-2.85
	5270	54	40/40.5 (MCS2)	19.21	23.98	-4.77	1.60	20.81	30.00	-9.19
	5310	62	40/40.5 (MCS2)	17.38	23.98	-6.60	1.60	18.98	30.00	-11.02
	5510	102	40/40.5 (MCS2)	15.85	23.98	-8.13	2.20	18.05	30.00	-11.95
	5550	110	40/40.5 (MCS2)	19.14	23.98	-4.84	2.20	21.34	30.00	-8.66
	5670	134	40/40.5 (MCS2)	19.27	23.98	-4.71	2.20	21.47	30.00	-8.53
	5710	142	40/40.5 (MCS2)	19.45	23.98	-4.53	2.20	21.65	30.00	-8.35
	5755	151	40/40.5 (MCS2)	19.34	30.00	-10.66	2.20	21.54	-	-
	5795	159	40/40.5 (MCS2)	19.28	30.00	-10.72	2.20	21.48	-	-

Table 7-38. ISSED Antenna WF2a 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5190	38	49/51.6 (MCS2)	14.88	-	-	0.70	15.58	23.01	-7.43
	5230	46	49/51.6 (MCS2)	19.45	-	-	0.70	20.15	23.01	-2.86
	5270	54	49/51.6 (MCS2)	19.24	23.98	-4.74	1.60	20.84	30.00	-9.16
	5310	62	49/51.6 (MCS2)	16.75	23.98	-7.23	1.60	18.35	30.00	-11.65
	5510	102	49/51.6 (MCS2)	15.48	23.98	-8.50	2.20	17.68	30.00	-12.32
	5550	110	49/51.6 (MCS2)	19.19	23.98	-4.79	2.20	21.39	30.00	-8.61
	5670	134	49/51.6 (MCS2)	19.27	23.98	-4.71	2.20	21.47	30.00	-8.54
	5710	142	49/51.6 (MCS2)	19.40	23.98	-4.58	2.20	21.60	30.00	-8.40
	5755	151	49/51.6 (MCS2)	19.39	30.00	-10.61	2.20	21.59	-	-
	5795	159	49/51.6 (MCS2)	19.31	30.00	-10.69	2.20	21.51	-	-

Table 7-39. ISSED Antenna WF2a 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ac						
	5210	42	87.8/97.5 (MCS2)	14.22	-	-	0.70	14.92	23.01	-8.09
	5290	58	87.8/97.5 (MCS2)	16.30	23.98	-7.68	1.60	17.90	30.00	-12.10
	5530	106	87.8/97.5 (MCS2)	14.46	23.98	-9.52	2.20	16.66	30.00	-13.34
	5690	138	87.8/97.5 (MCS2)	19.12	23.98	-4.86	2.20	21.32	30.00	-8.68
	5775	155	87.8/97.5 (MCS2)	17.99	30.00	-12.01	2.20	20.19	-	-

Table 7-40. ISSED Antenna WF2a 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5210	42	102/108.1 (MCS2)	13.82	-	-	0.70	14.52	23.01	-8.49
	5290	58	102/108.1 (MCS2)	15.65	23.98	-8.33	1.60	17.25	30.00	-12.75
	5530	106	102/108.1 (MCS2)	14.45	23.98	-9.53	2.20	16.65	30.00	-13.35
	5690	138	102/108.1 (MCS2)	19.49	23.98	-4.49	2.20	21.69	30.00	-8.32
	5775	155	102/108.1 (MCS2)	17.64	30.00	-12.36	2.20	19.84	-	-

Table 7-41. ISSED Antenna WF2a 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ac						
	5250	50	175.5/195 (MCS2)	13.28	23.98	-10.70	0.70	13.98	23.01	-9.03

Table 7-42. ISSED Antenna WF2a 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5250	50	204/216.2 (MCS2)	13.36	23.98	-10.62	0.70	14.06	23.01	-8.95

Table 7-43. ISSED Antenna WF2a 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.5 FCC Antenna WF7b Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11a	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	12 (MCS2)	18.64	23.98	-5.34
	5200	40	12 (MCS2)	19.27	23.98	-4.71
	5240	48	12 (MCS2)	19.23	23.98	-4.75
	5260	52	12 (MCS2)	19.15	23.98	-4.83
	5300	60	12 (MCS2)	19.13	23.98	-4.85
	5320	64	12 (MCS2)	18.95	23.98	-5.03
	5500	100	12 (MCS2)	18.90	23.98	-5.08
	5520	104	12 (MCS2)	19.28	23.98	-4.70
	5540	108	12 (MCS2)	19.26	23.98	-4.72
	5580	116	12 (MCS2)	19.22	23.98	-4.76
	5660	132	12 (MCS2)	19.31	23.98	-4.67
	5680	136	12 (MCS2)	19.46	23.98	-4.52
	5700	140	12 (MCS2)	17.78	23.98	-6.20
	5720	144	12 (MCS2)	19.36	23.98	-4.62
	5745	149	12 (MCS2)	19.34	30.00	-10.66
	5785	157	12 (MCS2)	19.32	30.00	-10.68
	5825	165	12 (MCS2)	19.20	30.00	-10.80

Table 7-44. FCC Antenna WF7b 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 55 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n		
	5180	36	19.5/21.7 (MCS2)	18.36	23.98	-5.62
	5200	40	19.5/21.7 (MCS2)	19.36	23.98	-4.62
	5240	48	19.5/21.7 (MCS2)	19.29	23.98	-4.69
	5260	52	19.5/21.7 (MCS2)	19.45	23.98	-4.53
	5300	60	19.5/21.7 (MCS2)	19.47	23.98	-4.51
	5320	64	19.5/21.7 (MCS2)	18.78	23.98	-5.20
	5500	100	19.5/21.7 (MCS2)	18.74	23.98	-5.24
	5520	104	19.5/21.7 (MCS2)	19.22	23.98	-4.76
	5540	108	19.5/21.7 (MCS2)	19.18	23.98	-4.80
	5580	116	19.5/21.7 (MCS2)	19.11	23.98	-4.87
	5660	132	19.5/21.7 (MCS2)	19.36	23.98	-4.62
	5680	136	19.5/21.7 (MCS2)	19.45	23.98	-4.53
	5700	140	19.5/21.7 (MCS2)	17.61	23.98	-6.37
	5720	144	19.5/21.7 (MCS2)	19.44	23.98	-4.54
	5745	149	19.5/21.7 (MCS2)	19.18	30.00	-10.82
	5785	157	19.5/21.7 (MCS2)	19.22	30.00	-10.78
	5825	165	19.5/21.7 (MCS2)	19.31	30.00	-10.69

Table 7-45. FCC Antenna WF7b 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 56 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	24/25.8 (MCS2)	17.73	23.98	-6.25
	5200	40	24/25.8 (MCS2)	19.18	23.98	-4.80
	5240	48	24/25.8 (MCS2)	19.12	23.98	-4.86
	5260	52	24/25.8 (MCS2)	19.24	23.98	-4.74
	5300	60	24/25.8 (MCS2)	19.31	23.98	-4.66
	5320	64	24/25.8 (MCS2)	18.23	23.98	-5.75
	5500	100	24/25.8 (MCS2)	17.99	23.98	-5.99
	5520	104	24/25.8 (MCS2)	19.45	23.98	-4.53
	5540	108	24/25.8 (MCS2)	19.42	23.98	-4.56
	5580	116	24/25.8 (MCS2)	19.33	23.98	-4.65
	5660	132	24/25.8 (MCS2)	19.18	23.98	-4.80
	5680	136	24/25.8 (MCS2)	19.18	23.98	-4.80
	5700	140	24/25.8 (MCS2)	17.50	23.98	-6.48
	5720	144	24/25.8 (MCS2)	19.17	23.98	-4.81
	5745	149	24/25.8 (MCS2)	19.37	30.00	-10.63
	5785	157	24/25.8 (MCS2)	19.46	30.00	-10.54
	5825	165	24/25.8 (MCS2)	19.49	30.00	-10.51

Table 7-46. FCC Antenna WF7b 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11n	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	40/40.5 (MCS2)	16.41	23.98	-7.57
	5230	46	40/40.5 (MCS2)	19.11	23.98	-4.87
	5270	54	40/40.5 (MCS2)	19.46	23.98	-4.52
	5310	62	40/40.5 (MCS2)	17.34	23.98	-6.64
	5510	102	40/40.5 (MCS2)	15.65	23.98	-8.33
	5550	110	40/40.5 (MCS2)	19.17	23.98	-4.81
	5590	118	40/40.5 (MCS2)	19.41	23.98	-4.57
	5630	126	40/40.5 (MCS2)	19.24	23.98	-4.74
	5670	134	40/40.5 (MCS2)	19.41	23.98	-4.57
	5710	142	40/40.5 (MCS2)	19.35	23.98	-4.63
	5755	151	40/40.5 (MCS2)	19.45	23.98	-4.53
	5795	159	40/40.5 (MCS2)	19.33	23.98	-4.65

Table 7-47. FCC Antenna WF7b 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 57 of 272

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	49/51.6 (MCS2)	14.93	23.98	-9.05
	5230	46	49/51.6 (MCS2)	19.22	23.98	-4.75
	5270	54	49/51.6 (MCS2)	19.34	23.98	-4.64
	5310	62	49/51.6 (MCS2)	16.82	23.98	-7.16
	5510	102	49/51.6 (MCS2)	15.43	23.98	-8.55
	5550	110	49/51.6 (MCS2)	19.15	23.98	-4.83
	5590	118	49/51.6 (MCS2)	19.44	23.98	-4.54
	5630	126	49/51.6 (MCS2)	19.33	23.98	-4.65
	5670	134	49/51.6 (MCS2)	19.20	23.98	-4.78
	5710	142	49/51.6 (MCS2)	19.42	23.98	-4.56
	5755	151	49/51.6 (MCS2)	19.49	30.00	-10.51
	5795	159	49/51.6 (MCS2)	19.36	30.00	-10.64

Table 7-48. FCC Antenna WF7b 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ac	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	87.8/97.5 (MCS2)	14.29	23.98	-9.69
	5290	58	87.8/97.5 (MCS2)	16.41	23.98	-7.57
	5530	106	87.8/97.5 (MCS2)	14.34	23.98	-9.64
	5610	122	87.8/97.5 (MCS2)	19.32	23.98	-4.66
	5690	138	87.8/97.5 (MCS2)	19.42	23.98	-4.56
	5775	155	87.8/97.5 (MCS2)	17.70	30.00	-12.30

Table 7-49. FCC Antenna WF7b 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	102/108.1 (MCS2)	13.69	23.98	-10.29
	5290	58	102/108.1 (MCS2)	15.46	23.98	-8.52
	5530	106	102/108.1 (MCS2)	14.33	23.98	-9.65
	5610	122	102/108.1 (MCS2)	19.31	23.98	-4.67
	5690	138	102/108.1 (MCS2)	19.16	23.98	-4.82
	5775	155	102/108.1 (MCS2)	17.68	30.00	-12.32

Table 7-50. FCC Antenna WF7b 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device		Page 58 of 272

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5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac		
	5250	50	175.5/195 (MCS2)	13.36	23.98	-10.62
	5570	114	175.5/195 (MCS2)	12.91	23.98	-11.07

Table 7-51. FCC Antenna WF7b 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ax		
	5250	50	204/216.2 (MCS2)	13.38	23.98	-10.60
	5570	114	204/216.2 (MCS2)	13.04	23.98	-10.94

Table 7-52. FCC Antenna WF7b 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 59 of 272

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7.4.6 ISED Antenna WF7b Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11a						
	5180	36	12 (MCS2)	17.86	-	-	0.00	17.86	23.01	-5.15
	5200	40	12 (MCS2)	17.81	-	-	0.00	17.81	23.01	-5.20
	5240	48	12 (MCS2)	17.80	-	-	0.00	17.80	23.01	-5.21
	5260	52	12 (MCS2)	19.15	23.98	-4.83	0.30	19.45	30.00	-10.56
	5300	60	12 (MCS2)	19.13	23.98	-4.85	0.30	19.43	30.00	-10.57
	5320	64	12 (MCS2)	18.95	23.98	-5.03	0.30	19.25	30.00	-10.75
	5500	100	12 (MCS2)	18.90	23.98	-5.08	2.80	21.70	30.00	-8.30
	5520	104	12 (MCS2)	19.28	23.98	-4.70	2.80	22.08	30.00	-7.92
	5540	108	12 (MCS2)	19.26	23.98	-4.72	2.80	22.06	30.00	-7.94
	5580	116	12 (MCS2)	19.22	23.98	-4.76	2.80	22.02	30.00	-7.98
	5660	132	12 (MCS2)	19.31	23.98	-4.67	2.80	22.11	30.00	-7.89
	5680	136	12 (MCS2)	19.46	23.98	-4.52	2.80	22.26	30.00	-7.75
	5700	140	12 (MCS2)	17.78	23.98	-6.20	2.80	20.58	30.00	-9.43
	5720	144	12 (MCS2)	19.36	23.98	-4.62	2.80	22.16	30.00	-7.84
	5745	149	12 (MCS2)	19.34	30.00	-10.66	1.50	20.84	-	-
	5785	157	12 (MCS2)	19.32	30.00	-10.68	1.50	20.82	-	-
	5825	165	12 (MCS2)	19.20	30.00	-10.80	1.50	20.70	-	-

Table 7-53. ISED Antenna WF7b 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11n						
	5180	36	19.5/21.7 (MCS2)	17.81	-	-	0.00	17.81	23.01	-5.20
	5200	40	19.5/21.7 (MCS2)	17.74	-	-	0.00	17.74	23.01	-5.27
	5240	48	19.5/21.7 (MCS2)	17.71	-	-	0.00	17.71	23.01	-5.30
	5260	52	19.5/21.7 (MCS2)	19.45	23.98	-4.53	0.30	19.75	30.00	-10.25
	5300	60	19.5/21.7 (MCS2)	19.47	23.98	-4.51	0.30	19.77	30.00	-10.23
	5320	64	19.5/21.7 (MCS2)	18.78	23.98	-5.20	0.30	19.08	30.00	-10.92
	5500	100	19.5/21.7 (MCS2)	18.74	23.98	-5.24	2.80	21.54	30.00	-8.46
	5520	104	19.5/21.7 (MCS2)	19.22	23.98	-4.76	2.80	22.02	30.00	-7.98
	5540	108	19.5/21.7 (MCS2)	19.18	23.98	-4.80	2.80	21.98	30.00	-8.02
	5580	116	19.5/21.7 (MCS2)	19.11	23.98	-4.87	2.80	21.91	30.00	-8.09
	5660	132	19.5/21.7 (MCS2)	19.36	23.98	-4.62	2.80	22.16	30.00	-7.85
	5680	136	19.5/21.7 (MCS2)	19.45	23.98	-4.53	2.80	22.25	30.00	-7.75
	5700	140	19.5/21.7 (MCS2)	17.61	23.98	-6.37	2.80	20.41	30.00	-9.59
	5720	144	19.5/21.7 (MCS2)	19.44	23.98	-4.54	2.80	22.24	30.00	-7.76
	5745	149	19.5/21.7 (MCS2)	19.18	30.00	-10.82	1.50	20.68	-	-
	5785	157	19.5/21.7 (MCS2)	19.22	30.00	-10.78	1.50	20.72	-	-
	5825	165	19.5/21.7 (MCS2)	19.31	30.00	-10.69	1.50	20.81	-	-

Table 7-54. ISED Antenna WF7b 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 60 of 272	

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	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	24/25.8 (MCS2)	17.84	-	-	0.00	17.84	23.01	-5.17
	5200	40	24/25.8 (MCS2)	18.85	-	-	0.00	18.85	23.01	-4.16
	5240	48	24/25.8 (MCS2)	18.92	-	-	0.00	18.92	23.01	-4.09
	5260	52	24/25.8 (MCS2)	19.24	23.98	-4.74	0.30	19.54	30.00	-10.46
	5300	60	24/25.8 (MCS2)	19.31	23.98	-4.66	0.30	19.61	30.00	-10.39
	5320	64	24/25.8 (MCS2)	18.23	23.98	-5.75	0.30	18.53	30.00	-11.47
	5500	100	24/25.8 (MCS2)	17.99	23.98	-5.99	2.80	20.79	30.00	-9.21
	5520	104	24/25.8 (MCS2)	19.45	23.98	-4.53	2.80	22.25	30.00	-7.75
	5540	108	24/25.8 (MCS2)	19.42	23.98	-4.56	2.80	22.22	30.00	-7.78
	5580	116	24/25.8 (MCS2)	19.33	23.98	-4.65	2.80	22.13	30.00	-7.87
	5660	132	24/25.8 (MCS2)	19.18	23.98	-4.80	2.80	21.98	30.00	-8.02
	5680	136	24/25.8 (MCS2)	19.18	23.98	-4.80	2.80	21.98	30.00	-8.03
	5700	140	24/25.8 (MCS2)	17.50	23.98	-6.48	2.80	20.30	30.00	-9.70
	5720	144	24/25.8 (MCS2)	19.17	23.98	-4.81	2.80	21.97	30.00	-8.03
	5745	149	24/25.8 (MCS2)	19.37	30.00	-10.63	1.50	20.87	-	-
	5785	157	24/25.8 (MCS2)	19.46	30.00	-10.54	1.50	20.96	-	-
	5825	165	24/25.8 (MCS2)	19.49	30.00	-10.51	1.50	20.99	-	-

Table 7-55. ISSED Antenna WF7b 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11n	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	40/40.5 (MCS2)	16.49	-	-	0.00	16.49	23.01	-6.52
	5230	46	40/40.5 (MCS2)	19.37	-	-	0.00	19.37	23.01	-3.64
	5270	54	40/40.5 (MCS2)	19.46	23.98	-4.52	0.30	19.76	30.00	-10.25
	5310	62	40/40.5 (MCS2)	17.34	23.98	-6.64	0.30	17.64	30.00	-12.36
	5510	102	40/40.5 (MCS2)	15.65	23.98	-8.33	2.80	18.45	30.00	-11.55
	5550	110	40/40.5 (MCS2)	19.17	23.98	-4.81	2.80	21.97	30.00	-8.03
	5670	134	40/40.5 (MCS2)	19.41	23.98	-4.57	2.80	22.21	30.00	-7.79
	5710	142	40/40.5 (MCS2)	19.35	23.98	-4.63	2.80	22.15	30.00	-7.85
	5755	151	40/40.5 (MCS2)	19.45	23.98	-4.53	1.50	20.95	-	-
	5795	159	40/40.5 (MCS2)	19.33	23.98	-4.65	1.50	20.83	-	-

Table 7-56. ISSED Antenna WF7b 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	Conducted Power [dBm] 802.11ax	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	49/51.6 (MCS2)	14.68	-	-	0.00	14.68	23.01	-8.33
	5230	46	49/51.6 (MCS2)	19.36	-	-	0.00	19.36	23.01	-3.66
	5270	54	49/51.6 (MCS2)	19.34	23.98	-4.64	0.30	19.64	30.00	-10.36
	5310	62	49/51.6 (MCS2)	16.82	23.98	-7.16	0.30	17.12	30.00	-12.88
	5510	102	49/51.6 (MCS2)	15.43	23.98	-8.55	2.80	18.23	30.00	-11.78
	5550	110	49/51.6 (MCS2)	19.15	23.98	-4.83	2.80	21.95	30.00	-8.05
	5670	134	49/51.6 (MCS2)	19.20	23.98	-4.78	2.80	22.00	30.00	-8.00
	5710	142	49/51.6 (MCS2)	19.42	23.98	-4.56	2.80	22.22	30.00	-7.78
	5755	151	49/51.6 (MCS2)	19.49	30.00	-10.51	1.50	20.99	-	-
	5795	159	49/51.6 (MCS2)	19.36	30.00	-10.64	1.50	20.86	-	-

Table 7-57. ISSED Antenna WF7b 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device		Page 61 of 272

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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ac						
	5210	42	87.8/97.5 (MCS2)	14.41	-	-	0.00	14.41	23.01	-8.60
	5290	58	87.8/97.5 (MCS2)	16.41	23.98	-7.57	0.30	16.71	30.00	-13.29
	5530	106	87.8/97.5 (MCS2)	14.34	23.98	-9.64	2.80	17.14	30.00	-12.86
	5690	138	87.8/97.5 (MCS2)	19.42	23.98	-4.56	2.80	22.22	30.00	-7.79
	5775	155	87.8/97.5 (MCS2)	17.70	30.00	-12.30	1.50	19.20	-	-

Table 7-58. ISED Antenna WF7b 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5210	42	102/108.1 (MCS2)	13.94	-	-	0.00	13.94	23.01	-9.07
	5290	58	102/108.1 (MCS2)	15.46	23.98	-8.52	0.30	15.76	30.00	-14.25
	5530	106	102/108.1 (MCS2)	14.33	23.98	-9.65	2.80	17.13	30.00	-12.87
	5690	138	102/108.1 (MCS2)	19.16	23.98	-4.82	2.80	21.96	30.00	-8.04
	5775	155	102/108.1 (MCS2)	17.68	30.00	-12.32	1.50	19.18	-	-

Table 7-59. ISED Antenna WF7b 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ac						
	5250	50	175.5/195 (MCS2)	13.28	23.98	-10.70	0.00	13.28	23.01	-9.73

Table 7-60. ISED Antenna WF7b 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Data Rate [Mbps]	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]
				802.11ax						
	5250	50	204/216.2 (MCS2)	13.37	23.98	-10.61	0.00	13.37	23.01	-9.64

Table 7-61. ISED Antenna WF7b 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 62 of 272

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7.4.7 FCC CDD Primary Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5180	36	CDD	12 (MCS2)	16.66	16.78	19.73	23.98	-4.25
	5200	40	CDD	12 (MCS2)	16.81	16.87	19.85	23.98	-4.13
	5240	48	CDD	12 (MCS2)	16.87	16.82	19.85	23.98	-4.13
	5260	52	CDD	12 (MCS2)	16.66	16.80	19.74	23.98	-4.24
	5300	60	CDD	12 (MCS2)	16.66	16.89	19.79	23.98	-4.19
	5320	64	CDD	12 (MCS2)	16.83	16.97	19.91	23.98	-4.07
	5500	100	CDD	12 (MCS2)	16.61	16.85	19.74	23.98	-4.24
	5520	104	CDD	12 (MCS2)	16.62	16.65	19.65	23.98	-4.33
	5580	116	CDD	12 (MCS2)	16.75	16.56	19.67	23.98	-4.31
	5660	132	CDD	12 (MCS2)	16.92	16.87	19.91	23.98	-4.07
	5680	136	CDD	12 (MCS2)	16.86	16.94	19.91	23.98	-4.07
	5700	140	CDD	12 (MCS2)	16.77	16.92	19.86	23.98	-4.12
	5720	144	CDD	12 (MCS2)	16.79	16.80	19.81	23.98	-4.17
	5745	149	CDD	12 (MCS2)	19.33	19.28	22.31	30.00	-7.69
	5785	157	CDD	12 (MCS2)	19.46	19.43	22.46	30.00	-7.54
	5825	165	CDD	12 (MCS2)	19.34	19.28	22.32	30.00	-7.68

Table 7-62. FCC CDD Primary 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5180	36	CDD	39/43.4 (MCS2)	16.62	16.80	19.72	23.98	-4.26
	5200	40	CDD	39/43.4 (MCS2)	16.74	16.82	19.79	23.98	-4.19
	5240	48	CDD	39/43.4 (MCS2)	16.67	16.77	19.73	23.98	-4.25
	5260	52	CDD	39/43.4 (MCS2)	16.96	16.85	19.92	23.98	-4.06
	5300	60	CDD	39/43.4 (MCS2)	16.86	16.85	19.86	23.98	-4.12
	5320	64	CDD	39/43.4 (MCS2)	16.85	16.82	19.84	23.98	-4.14
	5500	100	CDD	39/43.4 (MCS2)	16.96	16.94	19.96	23.98	-4.02
	5520	104	CDD	39/43.4 (MCS2)	16.94	16.85	19.91	23.98	-4.07
	5580	116	CDD	39/43.4 (MCS2)	16.76	16.76	19.77	23.98	-4.21
	5660	132	CDD	39/43.4 (MCS2)	16.71	16.84	19.78	23.98	-4.20
	5680	136	CDD	39/43.4 (MCS2)	16.87	16.73	19.81	23.98	-4.17
	5700	140	CDD	39/43.4 (MCS2)	16.76	16.70	19.74	23.98	-4.24
	5720	144	CDD	39/43.4 (MCS2)	16.90	16.77	19.85	23.98	-4.13
	5745	149	CDD	39/43.4 (MCS2)	19.39	19.46	22.43	30.00	-7.57
	5785	157	CDD	39/43.4 (MCS2)	19.24	19.46	22.36	30.00	-7.64
	5825	165	CDD	39/43.4 (MCS2)	19.32	19.34	22.34	30.00	-7.66

Table 7-63. FCC CDD Primary 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 63 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5180	36	CDD	48/251.6 (MCS2)	16.91	16.97	19.95	23.98	-4.03
	5200	40	CDD	48/251.6 (MCS2)	18.00	17.99	21.00	23.98	-2.98
	5240	48	CDD	48/251.6 (MCS2)	17.71	17.96	20.85	23.98	-3.13
	5260	52	CDD	48/251.6 (MCS2)	17.80	17.61	20.72	23.98	-3.26
	5300	60	CDD	48/251.6 (MCS2)	17.67	17.79	20.74	23.98	-3.24
	5320	64	CDD	48/251.6 (MCS2)	17.68	17.62	20.66	23.98	-3.32
	5500	100	CDD	48/251.6 (MCS2)	16.67	16.78	19.73	23.98	-4.25
	5520	104	CDD	48/251.6 (MCS2)	17.70	17.93	20.83	23.98	-3.15
	5580	116	CDD	48/251.6 (MCS2)	17.89	17.85	20.88	23.98	-3.10
	5660	132	CDD	48/251.6 (MCS2)	17.73	17.87	20.81	23.98	-3.17
	5680	136	CDD	48/251.6 (MCS2)	17.63	17.83	20.75	23.98	-3.23
	5700	140	CDD	48/251.6 (MCS2)	16.42	16.47	19.45	23.98	-4.53
	5720	144	CDD	48/251.6 (MCS2)	17.68	17.79	20.75	23.98	-3.23
	5745	149	CDD	48/251.6 (MCS2)	19.43	19.23	22.34	30.00	-7.66
	5785	157	CDD	48/251.6 (MCS2)	19.28	19.18	22.24	30.00	-7.76
	5825	165	CDD	48/251.6 (MCS2)	19.32	19.46	22.40	30.00	-7.60

Table 7-64. FCC CDD Primary 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5190	38	CDD	80/81 (MCS2)	14.77	14.63	17.71	23.98	-6.27
	5230	46	CDD	80/81 (MCS2)	19.25	19.33	22.30	23.98	-1.68
	5270	54	CDD	80/81 (MCS2)	19.15	19.28	22.22	23.98	-1.76
	5310	62	CDD	80/81 (MCS2)	16.30	16.22	19.27	23.98	-4.71
	5510	102	CDD	80/81 (MCS2)	15.36	15.36	18.37	23.98	-5.61
	5550	110	CDD	80/81 (MCS2)	19.47	19.47	22.48	23.98	-1.50
	5630	126	CDD	80/81 (MCS2)	19.24	19.28	22.27	23.98	-1.71
	5670	134	CDD	80/81 (MCS2)	18.89	18.81	21.86	23.98	-2.12
	5710	142	CDD	80/81 (MCS2)	19.29	19.26	22.28	23.98	-1.70
	5755	151	CDD	80/81 (MCS2)	19.12	19.21	22.18	30.00	-7.82
	5795	159	CDD	80/81 (MCS2)	19.24	19.19	22.22	30.00	-7.78

Table 7-65. FCC CDD Primary 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5190	38	CDD	98/103.2 (MCS2)	13.93	13.94	16.94	23.98	-7.04
	5230	46	CDD	98/103.2 (MCS2)	19.41	19.20	22.31	23.98	-1.67
	5270	54	CDD	98/103.2 (MCS2)	19.28	19.47	22.38	23.98	-1.60
	5310	62	CDD	98/103.2 (MCS2)	15.70	15.60	18.66	23.98	-5.32
	5510	102	CDD	98/103.2 (MCS2)	14.78	14.59	17.70	23.98	-6.28
	5550	110	CDD	98/103.2 (MCS2)	19.26	19.31	22.29	23.98	-1.69
	5630	126	CDD	98/103.2 (MCS2)	19.34	19.15	22.26	23.98	-1.72
	5670	134	CDD	98/103.2 (MCS2)	18.14	18.37	21.27	23.98	-2.71
	5710	142	CDD	98/103.2 (MCS2)	19.24	19.16	22.21	23.98	-1.77
	5755	151	CDD	98/103.2 (MCS2)	19.49	19.41	22.46	30.00	-7.54
	5795	159	CDD	98/103.2 (MCS2)	19.45	19.32	22.40	30.00	-7.60

Table 7-66. FCC CDD Primary 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5210	42	CDD	175.6/195 (MCS2)	13.87	13.92	16.90	23.98	-7.08
	5290	58	CDD	175.6/195 (MCS2)	16.21	16.24	19.24	23.98	-4.74
	5530	106	CDD	175.6/195 (MCS2)	14.32	14.46	17.40	23.98	-6.58
	5610	122	CDD	175.6/195 (MCS2)	19.22	19.38	22.31	23.98	-1.67
	5690	138	CDD	175.6/195 (MCS2)	19.13	19.38	22.27	23.98	-1.71
	5775	155	CDD	175.6/195 (MCS2)	17.76	17.94	20.86	30.00	-9.14

Table 7-67. FCC CDD Primary 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5210	42	CDD	204/216.2 (MCS2)	13.61	13.98	16.81	23.98	-7.17
	5290	58	CDD	204/216.2 (MCS2)	15.72	15.46	18.60	23.98	-5.38
	5530	106	CDD	204/216.2 (MCS2)	13.59	13.76	16.68	23.98	-7.30
	5610	122	CDD	204/216.2 (MCS2)	19.26	19.49	22.39	23.98	-1.59
	5690	138	CDD	204/216.2 (MCS2)	19.31	19.32	22.33	23.98	-1.65
	5775	155	CDD	204/216.2 (MCS2)	17.32	17.38	20.36	30.00	-9.64

Table 7-68. FCC CDD Primary 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5250	50	CDD	351/390 (MCS2)	13.30	13.16	16.24	23.98	-7.74
	5570	114	CDD	351/390 (MCS2)	13.03	13.22	16.14	23.98	-7.84

Table 7-69. FCC CDD Primary 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF7a	Antenna WF2a	Summed		
	5250	50	CDD	408/432.4 (MCS2)	13.43	13.28	16.37	23.98	-7.61
	5570	114	CDD	408/432.4 (MCS2)	12.94	12.90	15.93	23.98	-8.05

Table 7-70. FCC CDD Primary 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.8 ISED CDD Primary/SDM Primary Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5180	36	CDD	12 (MCS2)	11.83	11.78	14.81	-	-	0.90	15.71	23.01	-7.30
	5200	40	CDD	12 (MCS2)	11.82	11.62	14.73	-	-	0.90	15.63	23.01	-7.38
	5240	48	CDD	12 (MCS2)	11.80	11.62	14.72	-	-	0.90	15.62	23.01	-7.39
	5260	52	CDD	12 (MCS2)	16.66	16.80	19.74	23.98	-4.24	2.30	22.04	30.00	-7.96
	5300	60	CDD	12 (MCS2)	16.66	16.89	19.79	23.98	-4.19	2.30	22.09	30.00	-7.91
	5320	64	CDD	12 (MCS2)	16.83	16.97	19.91	23.98	-4.07	2.30	22.21	30.00	-7.79
	5500	100	CDD	12 (MCS2)	16.61	16.85	19.74	23.98	-4.24	2.60	22.34	30.00	-7.66
	5520	104	CDD	12 (MCS2)	16.62	16.65	19.65	23.98	-4.33	2.60	22.25	30.00	-7.75
	5580	116	CDD	12 (MCS2)	16.75	16.56	19.67	23.98	-4.31	2.60	22.27	30.00	-7.73
	5660	132	CDD	12 (MCS2)	16.92	16.87	19.91	23.98	-4.07	2.60	22.51	30.00	-7.49
	5680	136	CDD	12 (MCS2)	16.86	16.94	19.91	23.98	-4.07	2.60	22.51	30.00	-7.49
	5700	140	CDD	12 (MCS2)	16.77	16.92	19.86	23.98	-4.12	2.60	22.46	30.00	-7.54
	5720	144	CDD	12 (MCS2)	16.79	16.80	19.81	23.98	-4.17	2.60	22.41	30.00	-7.59
	5745	149	CDD	12 (MCS2)	19.33	19.28	22.31	30.00	-7.69	2.20	24.51	-	-
	5785	157	CDD	12 (MCS2)	19.46	19.43	22.46	30.00	-7.54	2.20	24.66	-	-
	5825	165	CDD	12 (MCS2)	19.34	19.28	22.32	30.00	-7.68	2.20	24.52	-	-

Table 7-71. ISED CDD Primary 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5180	36	SDM	39/43.4 (MCS2)	14.91	14.81	17.87	-	-	0.80	18.67	23.01	-4.34
	5200	40	SDM	39/43.4 (MCS2)	14.97	14.85	17.92	-	-	0.80	18.72	23.01	-4.29
	5240	48	SDM	39/43.4 (MCS2)	14.75	14.90	17.83	-	-	0.80	18.63	23.01	-4.38
	5260	52	CDD	39/43.4 (MCS2)	16.96	16.85	19.92	23.98	-4.06	2.30	22.22	30.00	-7.78
	5300	60	CDD	39/43.4 (MCS2)	16.86	16.85	19.86	23.98	-4.12	2.30	22.16	30.00	-7.84
	5320	64	CDD	39/43.4 (MCS2)	16.85	16.82	19.84	23.98	-4.14	2.30	22.14	30.00	-7.86
	5500	100	CDD	39/43.4 (MCS2)	16.96	16.94	19.96	23.98	-4.02	2.60	22.56	30.00	-7.44
	5520	104	CDD	39/43.4 (MCS2)	16.94	16.85	19.91	23.98	-4.07	2.60	22.51	30.00	-7.49
	5580	116	CDD	39/43.4 (MCS2)	16.76	16.76	19.77	23.98	-4.21	2.60	22.37	30.00	-7.63
	5660	132	CDD	39/43.4 (MCS2)	16.71	16.84	19.78	23.98	-4.20	2.60	22.38	30.00	-7.62
	5680	136	CDD	39/43.4 (MCS2)	16.87	16.73	19.81	23.98	-4.17	2.60	22.41	30.00	-7.59
	5700	140	CDD	39/43.4 (MCS2)	16.76	16.70	19.74	23.98	-4.24	2.60	22.34	30.00	-7.66
	5720	144	CDD	39/43.4 (MCS2)	16.90	16.77	19.85	23.98	-4.13	2.60	22.45	30.00	-7.55
	5745	149	CDD	39/43.4 (MCS2)	19.39	19.46	22.43	30.00	-7.57	2.20	24.63	-	-
	5785	157	CDD	39/43.4 (MCS2)	19.24	19.46	22.36	30.00	-7.64	2.20	24.56	-	-
	5825	165	CDD	39/43.4 (MCS2)	19.32	19.34	22.34	30.00	-7.66	2.20	24.54	-	-

Table 7-72. ISED CDD/SDM Primary 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 67 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5180	36	SDM	48/251.6 (MCS2)	15.77	15.89	18.84	-	-	0.80	19.64	23.01	-3.37
	5200	40	SDM	48/251.6 (MCS2)	15.90	15.78	18.85	-	-	0.80	19.65	23.01	-3.36
	5240	48	SDM	48/251.6 (MCS2)	15.88	15.84	18.87	-	-	0.80	19.67	23.01	-3.34
	5260	52	CDD	48/251.6 (MCS2)	17.80	17.61	20.72	23.98	-3.26	2.30	23.02	30.00	-6.98
	5300	60	CDD	48/251.6 (MCS2)	17.67	17.79	20.74	23.98	-3.24	2.30	23.04	30.00	-6.96
	5320	64	CDD	48/251.6 (MCS2)	17.68	17.62	20.66	23.98	-3.32	2.30	22.96	30.00	-7.04
	5500	100	CDD	48/251.6 (MCS2)	16.67	16.78	19.73	23.98	-4.25	2.60	22.33	30.00	-7.67
	5520	104	CDD	48/251.6 (MCS2)	17.70	17.93	20.83	23.98	-3.15	2.60	23.43	30.00	-6.57
	5580	116	CDD	48/251.6 (MCS2)	17.89	17.85	20.88	23.98	-3.10	2.60	23.48	30.00	-6.52
	5660	132	CDD	48/251.6 (MCS2)	17.73	17.87	20.81	23.98	-3.17	2.60	23.41	30.00	-6.59
	5680	136	CDD	48/251.6 (MCS2)	17.63	17.83	20.75	23.98	-3.23	2.60	23.35	30.00	-6.65
	5700	140	CDD	48/251.6 (MCS2)	16.42	16.47	19.45	23.98	-4.53	2.60	22.05	30.00	-7.95
	5720	144	CDD	48/251.6 (MCS2)	17.68	17.79	20.75	23.98	-3.23	2.60	23.35	30.00	-6.65
	5745	149	CDD	48/251.6 (MCS2)	19.43	19.23	22.34	30.00	-7.66	2.20	24.54	-	-
	5785	157	CDD	48/251.6 (MCS2)	19.28	19.18	22.24	30.00	-7.76	2.20	24.44	-	-
	5825	165	CDD	48/251.6 (MCS2)	19.32	19.46	22.40	30.00	-7.60	2.20	24.60	-	-

Table 7-73. ISCED CDD/SDM Primary 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5190	38	SDM	80/81 (MCS2)	14.66	14.80	17.74	-	-	0.80	18.54	23.01	-4.47
	5230	46	SDM	80/81 (MCS2)	17.37	17.34	20.36	-	-	0.80	21.16	23.01	-1.85
	5270	54	CDD	80/81 (MCS2)	19.15	19.28	22.22	23.98	-1.76	2.30	24.52	30.00	-5.48
	5310	62	CDD	80/81 (MCS2)	16.30	16.22	19.27	23.98	-4.71	2.30	21.57	30.00	-8.43
	5510	102	CDD	80/81 (MCS2)	15.36	15.36	18.37	23.98	-5.61	2.60	20.97	30.00	-9.03
	5550	110	CDD	80/81 (MCS2)	19.47	19.47	22.48	23.98	-1.50	2.60	25.08	30.00	-4.92
	5670	134	CDD	80/81 (MCS2)	18.89	18.81	21.86	23.98	-2.12	2.60	24.46	30.00	-5.54
	5710	142	CDD	80/81 (MCS2)	19.29	19.26	22.28	23.98	-1.70	2.60	24.88	30.00	-5.12
	5755	151	CDD	80/81 (MCS2)	19.12	19.21	22.18	30.00	-7.82	2.20	24.38	-	-
	5795	159	CDD	80/81 (MCS2)	19.24	19.19	22.22	30.00	-7.78	2.20	24.42	-	-

Table 7-74. ISCED CDD/SDM Primary 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5190	38	CDD	98/103.2 (MCS2)	13.74	13.69	16.72	-	-	0.90	17.62	23.01	-5.39
	5230	46	SDM	98/103.2 (MCS2)	17.97	17.76	20.88	-	-	0.80	21.68	23.01	-1.33
	5270	54	CDD	98/103.2 (MCS2)	19.28	19.47	22.38	23.98	-1.60	2.30	24.68	30.00	-5.32
	5310	62	CDD	98/103.2 (MCS2)	15.70	15.60	18.66	23.98	-5.32	2.30	20.96	30.00	-9.04
	5510	102	CDD	98/103.2 (MCS2)	14.78	14.59	17.70	23.98	-6.28	2.60	20.30	30.00	-9.70
	5550	110	CDD	98/103.2 (MCS2)	19.26	19.31	22.29	23.98	-1.69	2.60	24.89	30.00	-5.11
	5670	134	CDD	98/103.2 (MCS2)	18.14	18.37	21.27	23.98	-2.71	2.60	23.87	30.00	-6.13
	5710	142	CDD	98/103.2 (MCS2)	19.24	19.16	22.21	23.98	-1.77	2.60	24.81	30.00	-5.19
	5755	151	CDD	98/103.2 (MCS2)	19.49	19.41	22.46	30.00	-7.54	2.20	24.66	-	-
	5795	159	CDD	98/103.2 (MCS2)	19.45	19.32	22.40	30.00	-7.60	2.20	24.60	-	-

Table 7-75. ISCED CDD/SDM Primary 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5210	42	CDD	175.6/195 (MCS2)	13.82	13.84	16.84	-	-	0.90	17.74	23.01	-5.27
	5290	58	CDD	175.6/195 (MCS2)	16.21	16.24	19.24	23.98	-4.74	2.30	21.54	30.00	-8.46
	5530	106	CDD	175.6/195 (MCS2)	14.32	14.46	17.40	23.98	-6.58	2.60	20.00	30.00	-10.00
	5690	138	CDD	175.6/195 (MCS2)	19.13	19.38	22.27	23.98	-1.71	2.60	24.87	30.00	-5.13
	5775	155	CDD	175.6/195 (MCS2)	17.76	17.94	20.86	30.00	-9.14	2.20	23.06	-	-

Table 7-76. ISCED CDD Primary 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device		Page 68 of 272

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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5210	42	CDD	204/216.2 (MCS2)	13.92	13.99	16.96	-	-	0.90	17.86	23.01	-5.15
	5290	58	CDD	204/216.2 (MCS2)	15.72	15.46	18.60	23.98	-5.38	2.30	20.90	30.00	-9.10
	5530	106	CDD	204/216.2 (MCS2)	13.59	13.76	16.68	23.98	-7.30	2.60	19.28	30.00	-10.72
	5690	138	CDD	204/216.2 (MCS2)	19.31	19.32	22.33	23.98	-1.65	2.60	24.93	30.00	-5.07
	5775	155	CDD	204/216.2 (MCS2)	17.32	17.38	20.36	30.00	-9.64	2.20	22.56	-	-

Table 7-77. ISED CDD Primary 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5250	50	CDD	351/390 (MCS2)	13.17	13.36	16.27	23.98	-7.71	0.90	17.10	23.01	-5.91

Table 7-78. ISED CDD Primary 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF7a	Antenna WF2a	Summed						
	5250	50	CDD	408/432.4 (MCS2)	13.43	13.28	16.37	23.98	-7.61	0.90	17.27	23.01	-5.74

Table 7-79. ISED CDD Primary 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 69 of 272

7.4.9 FCC CDD Diversity Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5180	36	CDD	12 (MCS2)	16.78	16.78	19.79	23.98	-4.19
	5200	40	CDD	12 (MCS2)	16.87	16.97	19.93	23.98	-4.05
	5240	48	CDD	12 (MCS2)	16.82	16.98	19.91	23.98	-4.07
	5260	52	CDD	12 (MCS2)	16.80	16.81	19.81	23.98	-4.17
	5300	60	CDD	12 (MCS2)	16.89	16.74	19.82	23.98	-4.16
	5320	64	CDD	12 (MCS2)	16.97	16.69	19.84	23.98	-4.14
	5500	100	CDD	12 (MCS2)	16.85	16.88	19.88	23.98	-4.10
	5520	104	CDD	12 (MCS2)	16.65	16.82	19.75	23.98	-4.23
	5540	108	CDD	12 (MCS2)	16.90	16.60	19.77	23.98	-4.21
	5580	116	CDD	12 (MCS2)	16.56	16.80	19.69	23.98	-4.29
	5660	132	CDD	12 (MCS2)	16.87	16.87	19.88	23.98	-4.10
	5680	136	CDD	12 (MCS2)	16.94	16.88	19.92	23.98	-4.06
	5700	140	CDD	12 (MCS2)	16.92	16.62	19.78	23.98	-4.20
	5720	144	CDD	12 (MCS2)	16.80	16.73	19.78	23.98	-4.20
	5745	149	CDD	12 (MCS2)	19.28	19.31	22.31	30.00	-7.69
	5785	157	CDD	12 (MCS2)	19.43	19.50	22.48	30.00	-7.52
	5825	165	CDD	12 (MCS2)	19.28	19.10	22.20	30.00	-7.80

Table 7-80. FCC CDD Diversity 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5180	36	CDD	39/43.4 (MCS2)	16.80	16.89	19.85	23.98	-4.13
	5200	40	CDD	39/43.4 (MCS2)	16.82	16.88	19.86	23.98	-4.12
	5240	48	CDD	39/43.4 (MCS2)	16.77	16.88	19.84	23.98	-4.14
	5260	52	CDD	39/43.4 (MCS2)	16.85	16.92	19.89	23.98	-4.09
	5300	60	CDD	39/43.4 (MCS2)	16.85	16.93	19.90	23.98	-4.08
	5320	64	CDD	39/43.4 (MCS2)	16.82	16.88	19.86	23.98	-4.12
	5500	100	CDD	39/43.4 (MCS2)	16.94	16.66	19.81	23.98	-4.17
	5520	104	CDD	39/43.4 (MCS2)	16.85	16.72	19.79	23.98	-4.19
	5540	108	CDD	39/43.4 (MCS2)	16.83	16.95	19.90	23.98	-4.08
	5580	116	CDD	39/43.4 (MCS2)	16.76	16.82	19.80	23.98	-4.18
	5660	132	CDD	39/43.4 (MCS2)	16.84	16.91	19.88	23.98	-4.10
	5680	136	CDD	39/43.4 (MCS2)	16.73	16.66	19.70	23.98	-4.28
	5700	140	CDD	39/43.4 (MCS2)	16.70	16.65	19.68	23.98	-4.30
	5720	144	CDD	39/43.4 (MCS2)	16.77	16.78	19.79	23.98	-4.19
	5745	149	CDD	39/43.4 (MCS2)	19.46	19.16	22.32	30.00	-7.68
	5785	157	CDD	39/43.4 (MCS2)	19.46	19.20	22.34	30.00	-7.66
	5825	165	CDD	39/43.4 (MCS2)	19.34	19.27	22.31	30.00	-7.69

Table 7-81. FCC CDD Diversity 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 70 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5180	36	CDD	48/251.6 (MCS2)	16.97	16.66	19.83	23.98	-4.15
	5200	40	CDD	48/251.6 (MCS2)	17.99	17.79	20.90	23.98	-3.08
	5240	48	CDD	48/251.6 (MCS2)	17.96	17.81	20.89	23.98	-3.09
	5260	52	CDD	48/251.6 (MCS2)	17.61	17.78	20.71	23.98	-3.27
	5300	60	CDD	48/251.6 (MCS2)	17.79	17.77	20.79	23.98	-3.19
	5320	64	CDD	48/251.6 (MCS2)	17.62	17.70	20.67	23.98	-3.31
	5500	100	CDD	48/251.6 (MCS2)	16.78	16.83	19.81	23.98	-4.17
	5520	104	CDD	48/251.6 (MCS2)	17.93	17.85	20.90	23.98	-3.08
	5540	108	CDD	48/251.6 (MCS2)	17.92	17.75	20.84	23.98	-3.14
	5580	116	CDD	48/251.6 (MCS2)	17.85	17.79	20.83	23.98	-3.15
	5660	132	CDD	48/251.6 (MCS2)	17.87	17.96	20.93	23.98	-3.05
	5680	136	CDD	48/251.6 (MCS2)	17.83	17.95	20.90	23.98	-3.08
	5700	140	CDD	48/251.6 (MCS2)	16.47	16.58	19.54	23.98	-4.44
	5720	144	CDD	48/251.6 (MCS2)	17.79	17.90	20.86	23.98	-3.12
	5745	149	CDD	48/251.6 (MCS2)	19.23	19.36	22.31	30.00	-7.69
	5785	157	CDD	48/251.6 (MCS2)	19.18	19.45	22.33	30.00	-7.67
	5825	165	CDD	48/251.6 (MCS2)	19.46	19.43	22.46	30.00	-7.54

Table 7-82. FCC CDD Diversity 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5190	38	CDD	80/81 (MCS2)	14.63	14.83	17.75	23.98	-6.23
	5230	46	CDD	80/81 (MCS2)	19.33	19.34	22.34	23.98	-1.64
	5270	54	CDD	80/81 (MCS2)	19.28	19.10	22.20	23.98	-1.78
	5310	62	CDD	80/81 (MCS2)	16.22	16.25	19.24	23.98	-4.74
	5510	102	CDD	80/81 (MCS2)	15.36	15.49	18.43	23.98	-5.55
	5550	110	CDD	80/81 (MCS2)	19.47	19.36	22.42	23.98	-1.56
	5630	126	CDD	80/81 (MCS2)	19.28	19.42	22.36	23.98	-1.62
	5670	134	CDD	80/81 (MCS2)	18.81	18.97	21.90	23.98	-2.08
	5710	142	CDD	80/81 (MCS2)	19.26	19.28	22.28	23.98	-1.70
	5755	151	CDD	80/81 (MCS2)	19.21	19.36	22.30	30.00	-7.70
	5795	159	CDD	80/81 (MCS2)	19.19	19.20	22.20	30.00	-7.80

Table 7-83. FCC CDD Diversity 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 71 of 272

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5190	38	CDD	98/103.2 (MCS2)	13.94	13.94	16.95	23.98	-7.03
	5230	46	CDD	98/103.2 (MCS2)	19.20	19.31	22.27	23.98	-1.71
	5270	54	CDD	98/103.2 (MCS2)	19.47	19.26	22.37	23.98	-1.61
	5310	62	CDD	98/103.2 (MCS2)	15.60	15.88	18.75	23.98	-5.23
	5510	102	CDD	98/103.2 (MCS2)	14.59	14.86	17.74	23.98	-6.24
	5550	110	CDD	98/103.2 (MCS2)	19.31	19.23	22.28	23.98	-1.70
	5630	126	CDD	98/103.2 (MCS2)	19.15	19.12	22.15	23.98	-1.83
	5670	134	CDD	98/103.2 (MCS2)	18.37	18.37	21.38	23.98	-2.60
	5710	142	CDD	98/103.2 (MCS2)	19.16	19.18	22.18	23.98	-1.80
	5755	151	CDD	98/103.2 (MCS2)	19.41	19.49	22.46	30.00	-7.54
	5795	159	CDD	98/103.2 (MCS2)	19.32	19.37	22.36	30.00	-7.64

Table 7-84. FCC CDD Diversity 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5210	42	CDD	175.6/195 (MCS2)	13.92	13.74	16.84	23.98	-7.14
	5290	58	CDD	175.6/195 (MCS2)	16.24	16.20	19.23	23.98	-4.75
	5530	106	CDD	175.6/195 (MCS2)	14.46	14.24	17.37	23.98	-6.61
	5610	122	CDD	175.6/195 (MCS2)	19.38	19.40	22.40	23.98	-1.58
	5690	138	CDD	175.6/195 (MCS2)	19.38	19.17	22.29	23.98	-1.69
	5775	155	CDD	175.6/195 (MCS2)	17.94	17.63	20.80	30.00	-9.20

Table 7-85. FCC CDD Diversity 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5210	42	CDD	204/216.2 (MCS2)	13.98	14.00	17.00	23.98	-6.98
	5290	58	CDD	204/216.2 (MCS2)	15.46	15.37	18.43	23.98	-5.55
	5530	106	CDD	204/216.2 (MCS2)	13.76	13.69	16.73	23.98	-7.25
	5610	122	CDD	204/216.2 (MCS2)	19.49	19.23	22.37	23.98	-1.61
	5690	138	CDD	204/216.2 (MCS2)	19.32	19.09	22.22	23.98	-1.76
	5775	155	CDD	204/216.2 (MCS2)	17.38	17.47	20.44	30.00	-9.56

Table 7-86. FCC CDD Diversity 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 72 of 272

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5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5250	50	CDD	351/390 (MCS2)	13.16	13.14	16.16	23.98	-7.82
	5570	114	CDD	351/390 (MCS2)	13.22	13.05	16.15	23.98	-7.83

Table 7-87. FCC CDD Diversity 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna WF2a	Antenna WF7b	Summed		
	5250	50	CDD	408/432.4 (MCS2)	13.28	13.35	16.32	23.98	-7.66
	5570	114	CDD	408/432.4 (MCS2)	12.90	12.89	15.91	23.98	-8.07

Table 7-88. FCC CDD Diversity 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 73 of 272

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7.4.10 ISED CDD Diversity/SDM Diversity Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF2a	Antenna WF7b	Summed						
	5180	36	CDD	12 (MCS2)	11.78	11.76	14.78	-	-	0.70	15.48	23.01	-7.53
	5200	40	CDD	12 (MCS2)	11.62	11.85	14.75	-	-	0.70	15.45	23.01	-7.56
	5240	48	CDD	12 (MCS2)	11.62	11.86	14.75	-	-	0.70	15.45	23.01	-7.56
	5260	52	CDD	12 (MCS2)	16.80	16.81	19.81	23.98	-4.17	1.60	21.41	30.00	-8.59
	5300	60	CDD	12 (MCS2)	16.89	16.74	19.82	23.98	-4.16	1.60	21.42	30.00	-8.58
	5320	64	CDD	12 (MCS2)	16.97	16.69	19.84	23.98	-4.14	1.60	21.44	30.00	-8.56
	5500	100	CDD	12 (MCS2)	16.85	16.88	19.88	23.98	-4.10	2.80	22.68	30.00	-7.32
	5520	104	CDD	12 (MCS2)	16.65	16.82	19.75	23.98	-4.23	2.80	22.55	30.00	-7.45
	5540	108	CDD	12 (MCS2)	16.90	16.60	19.77	23.98	-4.21	2.80	22.57	30.00	-7.43
	5580	116	CDD	12 (MCS2)	16.56	16.80	19.69	23.98	-4.29	2.80	22.49	30.00	-7.51
	5660	132	CDD	12 (MCS2)	16.87	16.87	19.88	23.98	-4.10	2.80	22.68	30.00	-7.32
	5680	136	CDD	12 (MCS2)	16.94	16.88	19.92	23.98	-4.06	2.80	22.72	30.00	-7.28
	5700	140	CDD	12 (MCS2)	16.92	16.62	19.78	23.98	-4.20	2.80	22.58	30.00	-7.42
	5720	144	CDD	12 (MCS2)	16.80	16.73	19.78	23.98	-4.20	2.80	22.58	30.00	-7.42
	5745	149	CDD	12 (MCS2)	19.28	19.31	22.31	30.00	-7.69	2.20	24.51	-	-
	5785	157	CDD	12 (MCS2)	19.43	19.50	22.48	30.00	-7.52	2.20	24.68	-	-
	5825	165	CDD	12 (MCS2)	19.28	19.10	22.20	30.00	-7.80	2.20	24.40	-	-

Table 7-89. ISED CDD Diversity 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF2a	Antenna WF7b	Summed						
	5180	36	SDM	39/43.4 (MCS2)	14.81	14.77	17.80	-	-	0.36	18.16	23.01	-4.85
	5200	40	SDM	39/43.4 (MCS2)	14.85	14.77	17.82	-	-	0.36	18.18	23.01	-4.83
	5240	48	SDM	39/43.4 (MCS2)	14.90	14.80	17.86	-	-	0.36	18.22	23.01	-4.79
	5260	52	CDD	39/43.4 (MCS2)	16.85	16.92	19.89	23.98	-4.09	1.60	21.49	30.00	-8.51
	5300	60	CDD	39/43.4 (MCS2)	16.85	16.93	19.90	23.98	-4.08	1.60	21.50	30.00	-8.50
	5320	64	CDD	39/43.4 (MCS2)	16.82	16.88	19.86	23.98	-4.12	1.60	21.46	30.00	-8.54
	5500	100	CDD	39/43.4 (MCS2)	16.94	16.66	19.81	23.98	-4.17	2.80	22.61	30.00	-7.39
	5520	104	CDD	39/43.4 (MCS2)	16.85	16.72	19.79	23.98	-4.19	2.80	22.59	30.00	-7.41
	5540	108	CDD	39/43.4 (MCS2)	16.83	16.95	19.90	23.98	-4.08	2.80	22.70	30.00	-7.30
	5580	116	CDD	39/43.4 (MCS2)	16.76	16.82	19.80	23.98	-4.18	2.80	22.60	30.00	-7.40
	5660	132	CDD	39/43.4 (MCS2)	16.84	16.91	19.88	23.98	-4.10	2.80	22.68	30.00	-7.32
	5680	136	CDD	39/43.4 (MCS2)	16.73	16.66	19.70	23.98	-4.28	2.80	22.50	30.00	-7.50
	5700	140	CDD	39/43.4 (MCS2)	16.70	16.65	19.68	23.98	-4.30	2.80	22.48	30.00	-7.52
	5720	144	CDD	39/43.4 (MCS2)	16.77	16.78	19.79	23.98	-4.19	2.80	22.59	30.00	-7.41
	5745	149	CDD	39/43.4 (MCS2)	19.46	19.16	22.32	30.00	-7.68	2.20	24.52	-	-
	5785	157	CDD	39/43.4 (MCS2)	19.46	19.20	22.34	30.00	-7.66	2.20	24.54	-	-
	5825	165	CDD	39/43.4 (MCS2)	19.34	19.27	22.31	30.00	-7.69	2.20	24.51	-	-

Table 7-90. ISED CDD/SDM Diversity 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 74 of 272

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF2a	Antenna WF7b	Summed						
	5180	36	SDM	48/251.6 (MCS2)	15.89	15.64	18.77	-	-	0.36	19.13	23.01	-3.88
	5200	40	SDM	48/251.6 (MCS2)	15.78	15.77	18.78	-	-	0.36	19.14	23.01	-3.87
	5240	48	SDM	48/251.6 (MCS2)	15.84	15.73	18.79	-	-	0.36	19.15	23.01	-3.86
	5260	52	CDD	48/251.6 (MCS2)	17.61	17.78	20.71	23.98	-3.27	1.60	22.31	30.00	-7.69
	5300	60	CDD	48/251.6 (MCS2)	17.79	17.77	20.79	23.98	-3.19	1.60	22.39	30.00	-7.61
	5320	64	CDD	48/251.6 (MCS2)	17.62	17.70	20.67	23.98	-3.31	1.60	22.27	30.00	-7.73
	5500	100	CDD	48/251.6 (MCS2)	16.78	16.83	19.81	23.98	-4.17	2.80	22.61	30.00	-7.39
	5520	104	CDD	48/251.6 (MCS2)	17.93	17.85	20.90	23.98	-3.08	2.80	23.70	30.00	-6.30
	5540	108	CDD	48/251.6 (MCS2)	17.92	17.75	20.84	23.98	-3.14	2.80	23.64	30.00	-6.36
	5580	116	CDD	48/251.6 (MCS2)	17.85	17.79	20.83	23.98	-3.15	2.80	23.63	30.00	-6.37
	5660	132	CDD	48/251.6 (MCS2)	17.87	17.96	20.93	23.98	-3.05	2.80	23.73	30.00	-6.27
	5680	136	CDD	48/251.6 (MCS2)	17.83	17.95	20.90	23.98	-3.08	2.80	23.70	30.00	-6.30
	5700	140	CDD	48/251.6 (MCS2)	16.47	16.58	19.54	23.98	-4.44	2.80	22.34	30.00	-7.66
	5720	144	CDD	48/251.6 (MCS2)	17.79	17.90	20.86	23.98	-3.12	2.80	23.66	30.00	-6.34
	5745	149	CDD	48/251.6 (MCS2)	19.23	19.36	22.31	30.00	-7.69	2.20	24.51	-	-
	5785	157	CDD	48/251.6 (MCS2)	19.18	19.45	22.33	30.00	-7.67	2.20	24.53	-	-
	5825	165	CDD	48/251.6 (MCS2)	19.46	19.43	22.46	30.00	-7.54	2.20	24.66	-	-

Table 7-91. ISED CDD/SDM Diversity 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF2a	Antenna WF7b	Summed						
	5190	38	SDM	80/81 (MCS2)	14.80	14.96	17.89	-	-	0.36	18.25	23.01	-4.76
	5230	46	SDM	80/81 (MCS2)	17.34	17.24	20.30	-	-	0.36	20.66	23.01	-2.35
	5270	54	CDD	80/81 (MCS2)	19.28	19.10	22.20	23.98	-1.78	1.60	23.80	30.00	-6.20
	5310	62	CDD	80/81 (MCS2)	16.22	16.25	19.24	23.98	-4.74	1.60	20.84	30.00	-9.16
	5510	102	CDD	80/81 (MCS2)	15.36	15.49	18.43	23.98	-5.55	2.80	21.23	30.00	-8.77
	5550	110	CDD	80/81 (MCS2)	19.47	19.36	22.42	23.98	-1.56	2.80	25.22	30.00	-4.78
	5670	134	CDD	80/81 (MCS2)	18.81	18.97	21.90	23.98	-2.08	2.80	24.70	30.00	-5.30
	5710	142	CDD	80/81 (MCS2)	19.26	19.28	22.28	23.98	-1.70	2.80	25.08	30.00	-4.92
	5755	151	CDD	80/81 (MCS2)	19.21	19.36	22.30	30.00	-7.70	2.20	24.50	-	-
	5795	159	CDD	80/81 (MCS2)	19.19	19.20	22.20	30.00	-7.80	2.20	24.40	-	-

Table 7-92. ISED CDD/SDM Diversity 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF2a	Antenna WF7b	Summed						
	5190	38	CDD	98/103.2 (MCS2)	13.69	13.64	16.67	-	-	0.70	17.37	23.01	-5.64
	5230	46	SDM	98/103.2 (MCS2)	17.76	17.74	20.76	-	-	0.36	21.12	23.01	-1.89
	5270	54	CDD	98/103.2 (MCS2)	19.47	19.26	22.37	23.98	-1.61	1.60	23.97	30.00	-6.03
	5310	62	CDD	98/103.2 (MCS2)	15.60	15.88	18.75	23.98	-5.23	1.60	20.35	30.00	-9.65
	5510	102	CDD	98/103.2 (MCS2)	14.59	14.86	17.74	23.98	-6.24	2.80	20.54	30.00	-9.46
	5550	110	CDD	98/103.2 (MCS2)	19.31	19.23	22.28	23.98	-1.70	2.80	25.08	30.00	-4.92
	5670	134	CDD	98/103.2 (MCS2)	18.37	18.37	21.38	23.98	-2.60	2.80	24.18	30.00	-5.82
	5710	142	CDD	98/103.2 (MCS2)	19.16	19.18	22.18	23.98	-1.80	2.80	24.98	30.00	-5.02
	5755	151	CDD	98/103.2 (MCS2)	19.41	19.49	22.46	30.00	-7.54	2.20	24.66	-	-
	5795	159	CDD	98/103.2 (MCS2)	19.32	19.37	22.36	30.00	-7.64	2.20	24.56	-	-

Table 7-93. ISED CDD/SDM Diversity 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF2a	Antenna WF7b	Summed						
	5210	42	CDD	175.6/195 (MCS2)	13.84	13.82	16.84	-	-	0.70	17.54	23.01	-5.47
	5290	58	CDD	175.6/195 (MCS2)	16.24	16.20	19.23	23.98	-4.75	1.60	20.83	30.00	-9.17
	5530	106	CDD	175.6/195 (MCS2)	14.46	14.24	17.37	23.98	-6.61	2.80	20.17	30.00	-9.83
	5690	138	CDD	175.6/195 (MCS2)	19.38	19.17	22.29	23.98	-1.69	2.80	25.09	30.00	-4.91
	5775	155	CDD	175.6/195 (MCS2)	17.94	17.63	20.80	30.00	-9.20	2.20	23.00	-	-

Table 7-94. ISED CDD Diversity 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 75 of 272

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF2a	Antenna WF7b	Summed						
	5210	42	CDD	204/216.2 (MCS2)	13.99	13.63	16.82	-	-	0.70	17.52	23.01	-5.49
	5290	58	CDD	204/216.2 (MCS2)	15.46	15.37	18.43	23.98	-5.55	1.60	20.03	30.00	-9.97
	5530	106	CDD	204/216.2 (MCS2)	13.76	13.69	16.73	23.98	-7.25	2.80	19.53	30.00	-10.47

Table 7-95. ISED CDD Diversity 80MHz BW 802.11ax (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 WF2a	Antenna WF7b	Summed						
	5250	50	CDD	351/390 (MCS2)	13.36	13.42	16.40	23.98	-7.58	0.70	17.10	23.01	-5.91

Table 7-96. ISED CDD Diversity 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate [Mbps]	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 WF2a	Antenna WF7b	Summed						
	5250	50	CDD	408/432.4 (MCS2)	13.28	13.35	16.32	23.98	-7.66	0.70	17.02	23.01	-5.99

Table 7-97. ISED CDD Diversity 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 76 of 272

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Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna WF7a and Antenna WF2a 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 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 Section 14.6.3, the uncorrelated 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.

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

Sample CDD/SDM Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 14.91 dBm for Antenna WF7a and 14.81 dBm for Antenna WF2a.

$$\text{Antenna WF7a} + \text{Antenna WF2a} = \text{CDD/SDM}$$


$$(14.91 \text{ dBm} + 14.81 \text{ dBm}) = (30.97 \text{ mW} + 30.27 \text{ mW}) = 61.24 \text{ mW} = 17.87 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 17.87 dBm with directional gain of 0.80 dBi.

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

$$17.87 \text{ dBm} + 0.80 \text{ dBi} = 18.67 \text{ dBm}$$

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 [6.2]

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 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2020 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 – Section 12.4.2.2
 KDB 789033 D02 v02r01 – Section F
 ANSI C63.10-2020 – 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 were investigated, and tabular data has been reported. Only the worst-case plot was reported.

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 78 of 272

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7.5.1 Antenna WF7a Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	19.5/21.7 (MCS2)	8.70	11.00	-2.30
	5200	40	n (20MHz)	39/43.3 (MCS4)	9.95	11.00	-1.05
	5240	48	n (20MHz)	39/43.3 (MCS4)	9.61	11.00	-1.39
	5180	36	ax (SU) (20MHz)	24/25.8 (MCS2)	6.78	11.00	-4.22
	5200	40	ax (SU) (20MHz)	135/143.4 (MCS11)	8.60	11.00	-2.41
	5240	48	ax (SU) (20MHz)	135/143.4 (MCS11)	8.57	11.00	-2.43
	5190	38	n (40MHz)	40/40.5 (MCS2)	4.42	11.00	-6.58
	5230	46	n (40MHz)	40/40.5 (MCS2)	7.50	11.00	-3.50
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	1.59	11.00	-9.41
	5230	46	ax (SU) (40MHz)	271/286 (MCS11)	6.66	11.00	-4.35
Band 1/2	5210	42	ac (80MHz)	87.8/97.5 (MCS2)	-0.76	11.00	-11.76
	5210	42	ax (SU) (80MHz)	204/216.2 (MCS4)	-2.21	11.00	-13.21
Band 2A	5250	50	ac (160MHz)	87.8/97.5 (MCS2)	-5.03	11.00	-16.03
	5250	50	ax (SU) (160MHz)	204/216.2 (MCS4)	-5.75	11.00	-16.75
	5260	52	n (20MHz)	19.5/21.7 (MCS2)	9.31	11.00	-1.69
	5300	60	n (20MHz)	19.5/21.7 (MCS2)	9.61	11.00	-1.39
	5320	64	n (20MHz)	19.5/21.7 (MCS2)	8.75	11.00	-2.25
	5260	52	ax (SU) (20MHz)	135/143.4 (MCS11)	8.33	11.00	-2.67
	5300	60	ax (SU) (20MHz)	135/143.4 (MCS11)	8.26	11.00	-2.74
	5320	64	ax (SU) (20MHz)	24/25.8 (MCS2)	6.62	11.00	-4.39
	5270	54	n (40MHz)	81/90 (MCS4)	7.42	11.00	-3.58
	5310	62	n (40MHz)	40/40.5 (MCS2)	4.73	11.00	-6.27
Band 2C	5270	54	ax (SU) (40MHz)	49/51.6 (MCS2)	6.41	11.00	-4.59
	5310	62	ax (SU) (40MHz)	49/51.6 (MCS2)	3.29	11.00	-7.71
	5290	58	ac (80MHz)	87.8/97.5 (MCS2)	0.88	11.00	-10.12
	5290	58	ax (SU) (80MHz)	204/216.2 (MCS4)	-1.10	11.00	-12.10
	5500	100	n (20MHz)	19.5/21.7 (MCS2)	8.99	11.00	-2.01
	5580	116	n (20MHz)	39/43.3 (MCS4)	9.33	11.00	-1.67
	5700	140	n (20MHz)	19.5/21.7 (MCS2)	8.32	11.00	-2.68
	5720	144	n (20MHz)	39/43.3 (MCS4)	10.09	11.00	-0.91
	5500	100	ax (SU) (20MHz)	24/25.8 (MCS2)	6.43	11.00	-4.57
	5580	116	ax (SU) (20MHz)	135/143.4 (MCS11)	8.22	11.00	-2.78
	5700	140	ax (SU) (20MHz)	24/25.8 (MCS2)	6.15	11.00	-4.85
	5720	144	ax (SU) (20MHz)	135/143.4 (MCS11)	8.47	11.00	-2.53
	5510	102	n (40MHz)	40/40.5 (MCS2)	3.62	11.00	-7.38
	5550	110	n (40MHz)	81/90 (MCS4)	7.01	11.00	-3.99
	5670	134	n (40MHz)	40/40.5 (MCS2)	6.41	11.00	-4.59
	5710	142	n (40MHz)	81/90 (MCS4)	7.01	11.00	-3.99
	5510	102	ax (SU) (40MHz)	49/51.6 (MCS2)	2.11	11.00	-8.89
	5550	110	ax (SU) (40MHz)	271/286 (MCS11)	5.92	11.00	-5.08
	5670	134	ax (SU) (40MHz)	49/51.6 (MCS2)	5.19	11.00	-5.81
	5710	142	ax (SU) (40MHz)	271/286 (MCS11)	5.69	11.00	-5.31
	5530	106	ac (80MHz)	87.8/97.5 (MCS2)	-0.66	11.00	-11.66
	*5610	122	ac (80MHz)	175.5/195 (MCS4)	4.07	11.00	-6.93
	5690	138	ac (80MHz)	87.8/97.5 (MCS2)	3.90	11.00	-7.10
	5530	106	ax (SU) (80MHz)	102/108.1 (MCS2)	-2.23	11.00	-13.23
	*5610	122	ax (SU) (80MHz)	204/216.2 (MCS4)	2.41	11.00	-8.59
	5690	138	ax (SU) (80MHz)	567/600.5 (MCS11)	2.81	11.00	-8.19
	*5570	114	ac (160MHz)	175.5/195 (MCS4)	-4.71	11.00	-15.71
	*5570	114	ax (SU) (160MHz)	204/216.2 (MCS4)	-6.19	11.00	-17.19

Table 7-98. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna WF7a

*TDWR channel is not supported for ISED (denoted by a * next to the frequency)

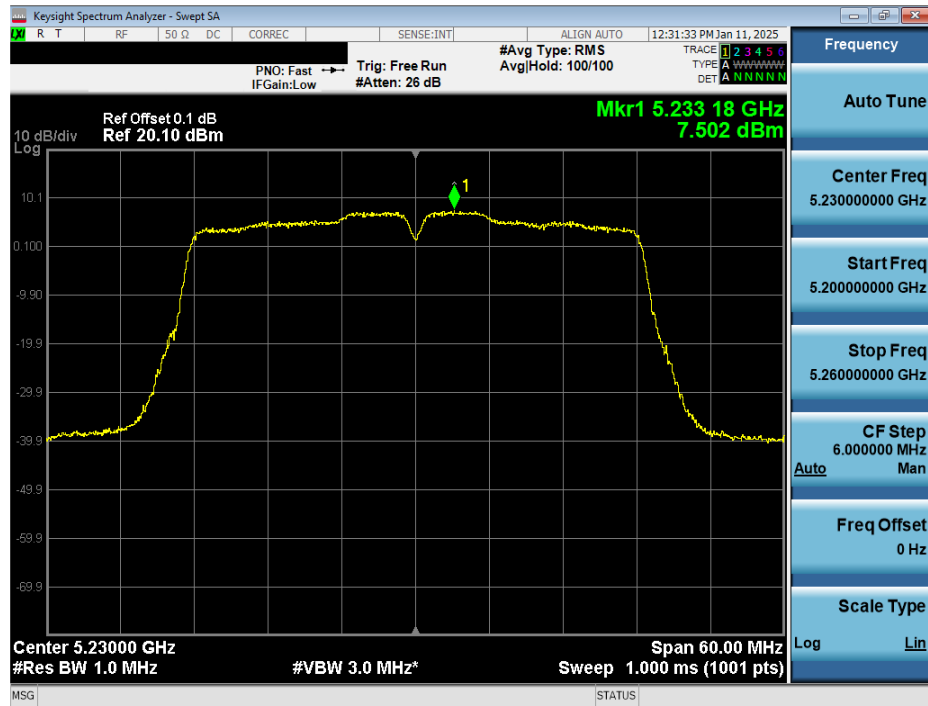
FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 79 of 272

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Plot 7-22. PSD Antenna WF7a (20MHz BW 802.11n – Ch.144)



Plot 7-23. PSD Antenna WF7a (40MHz BW 802.11n – Ch. 46)

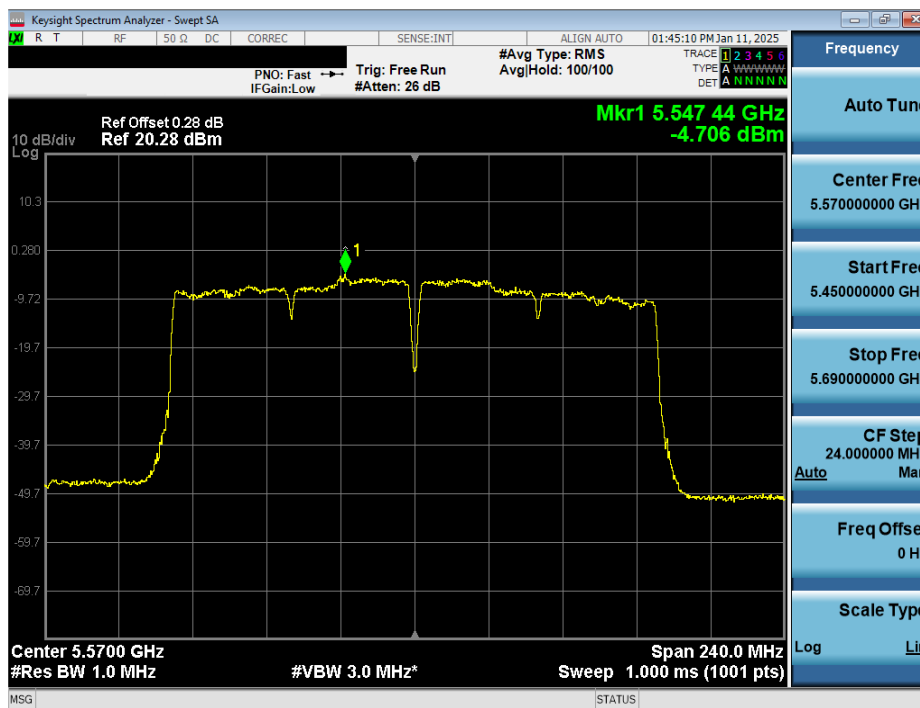
FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 80 of 272

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Plot 7-24. PSD Antenna WF7a (80MHz BW 802.11ac – Ch. 138)



Plot 7-25. PSD Antenna WF7a (160MHz BW 802.11ac – Ch. 114)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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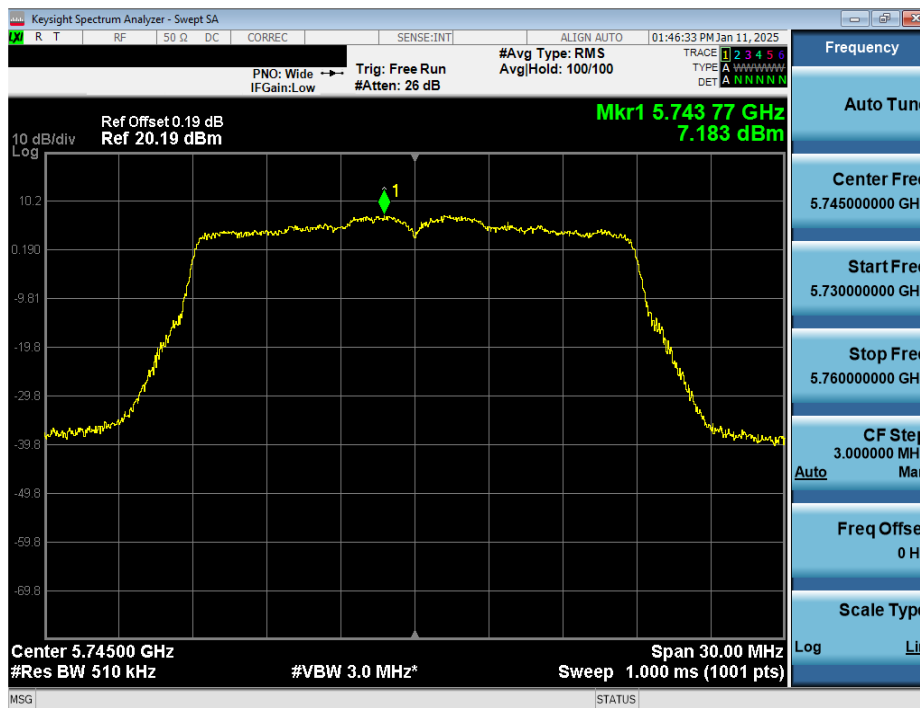
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	39/43.3 (MCS4)	7.18	30.0	-22.82
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	6.67	30.0	-23.33
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	6.77	30.0	-23.23
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	5.84	30.0	-24.16
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	5.60	30.0	-24.40
	5825	165	ax (SU) (20MHz)	135/143.4 (MCS11)	5.76	30.0	-24.25
	5755	151	n (40MHz)	81/90 (MCS4)	4.57	30.0	-25.43
	5795	159	n (40MHz)	81/90 (MCS4)	4.08	30.0	-25.92
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	3.59	30.0	-26.41
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	3.59	30.0	-26.41
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	-0.43	30.0	-30.43
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	-1.44	30.0	-31.44

Table 7-99. Band 3 Power Spectral Density Measurements Antenna WF7a

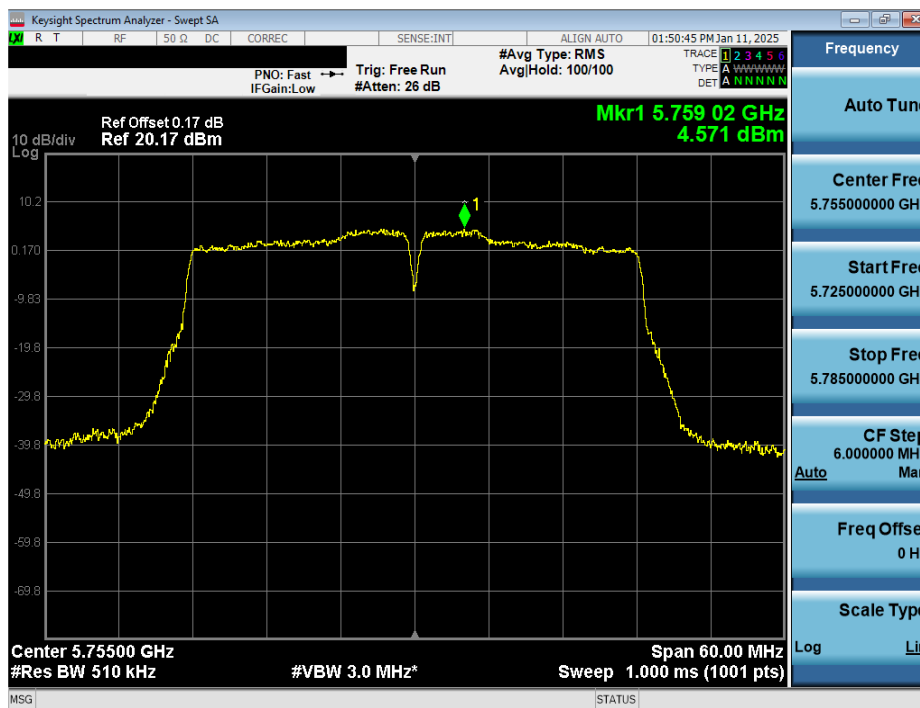
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 82 of 272

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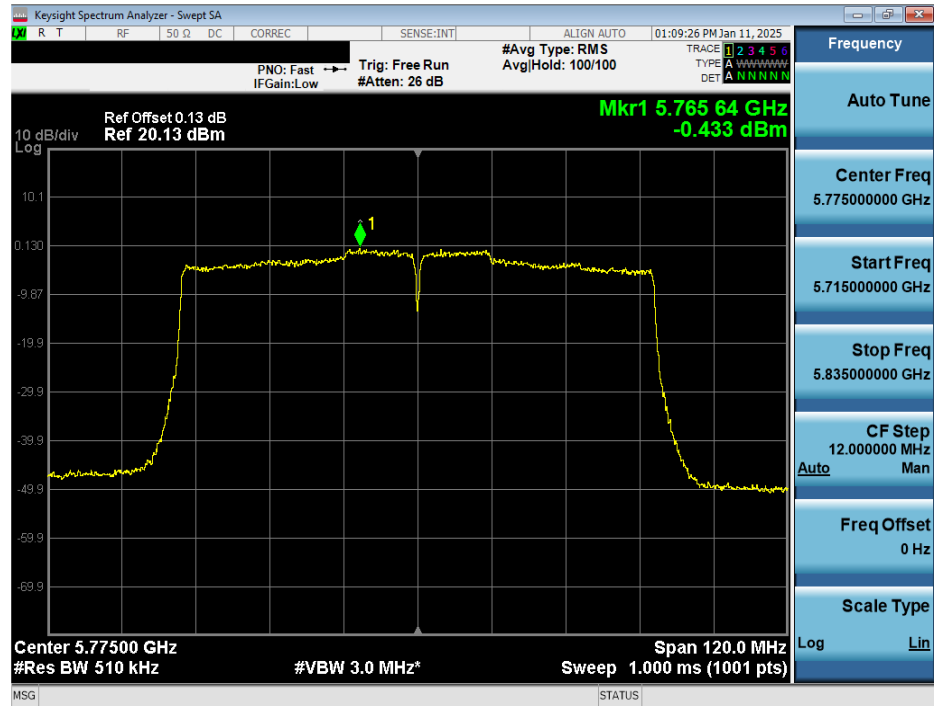


Plot 7-26. PSD Antenna WF7a (20MHz BW 802.11n – Ch. 149)




Plot 7-27. PSD Antenna WF7a (40MHz BW 802.11n – Ch. 151)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 83 of 272



Plot 7-28. PSD Antenna WF7a (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 84 of 272

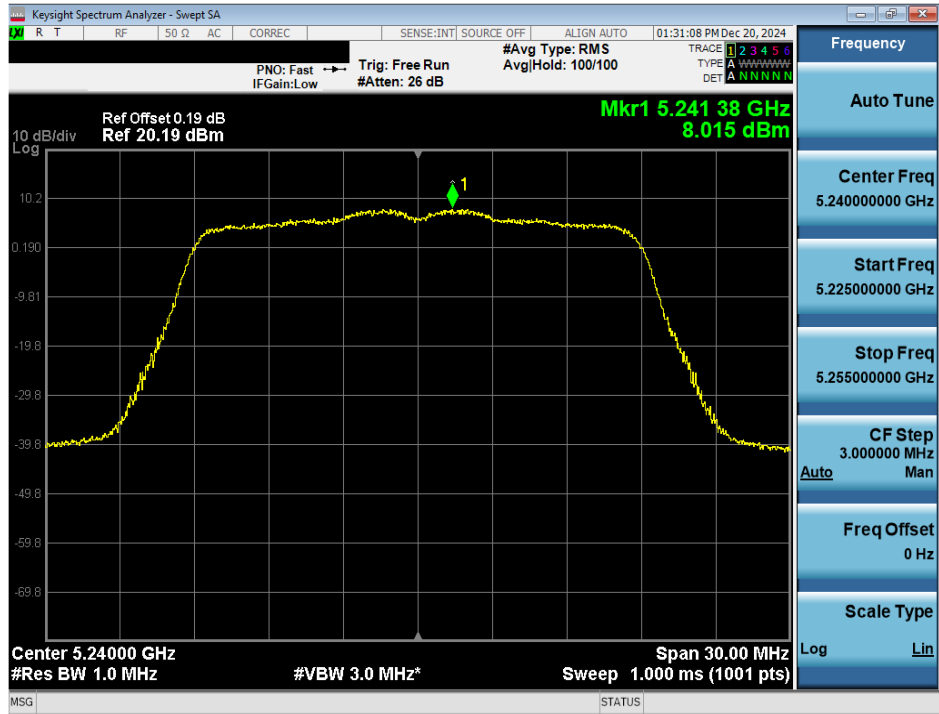
	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	39/43.3 (MCS4)	7.94	0.90	8.84	10.0	-1.16
	5200	40	n (20MHz)	19.5/21.7 (MCS2)	7.74	0.90	8.64	10.0	-1.36
	5240	48	n (20MHz)	39/43.3 (MCS4)	8.02	0.90	8.92	10.0	-1.09
	5180	36	ax (SU) (20MHz)	24/25.8 (MCS2)	6.32	0.90	7.22	10.0	-2.79
	5200	40	ax (SU) (20MHz)	49/51.6 (MCS4)	7.60	0.90	8.50	10.0	-1.50
	5240	48	ax (SU) (20MHz)	49/51.6 (MCS4)	7.48	0.90	8.38	10.0	-1.62
	5190	38	n (40MHz)	40/40.5 (MCS2)	3.18	0.90	4.08	10.0	-5.92
	5230	46	n (40MHz)	81/90 (MCS4)	6.41	0.90	7.31	10.0	-2.69
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	0.35	0.90	1.25	10.0	-8.75
	5230	46	ax (SU) (40MHz)	271/286 (MCS11)	4.95	0.90	5.85	10.0	-4.15
	5210	42	ac (80MHz)	175.5/195 (MCS4)	-2.07	0.90	-1.17	10.0	-11.17
	5210	42	ax (SU) (80MHz)	102/108.1 (MCS2)	-2.75	0.90	-1.85	10.0	-11.85
Band 1/2	5250	50	ac (160MHz)	87.8/97.5 (MCS2)	-5.18	0.90	-4.28	10.0	-14.28
	5250	50	ax (SU) (160MHz)	204/216.2 (MCS4)	-6.46	0.90	-5.56	10.0	-15.56

Table 7-100. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna WF7a

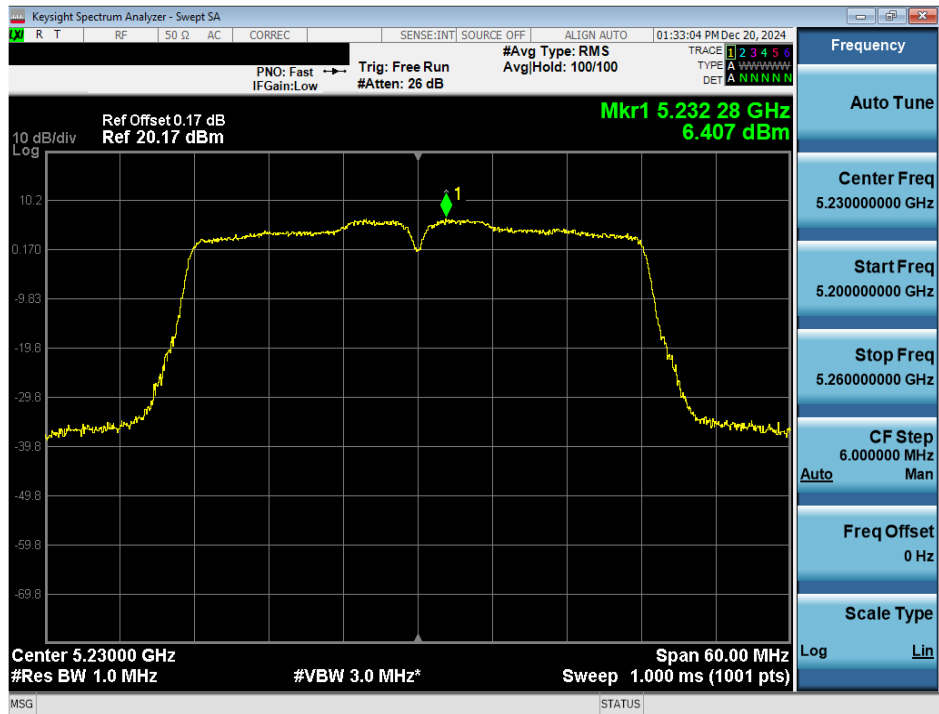
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 85 of 272

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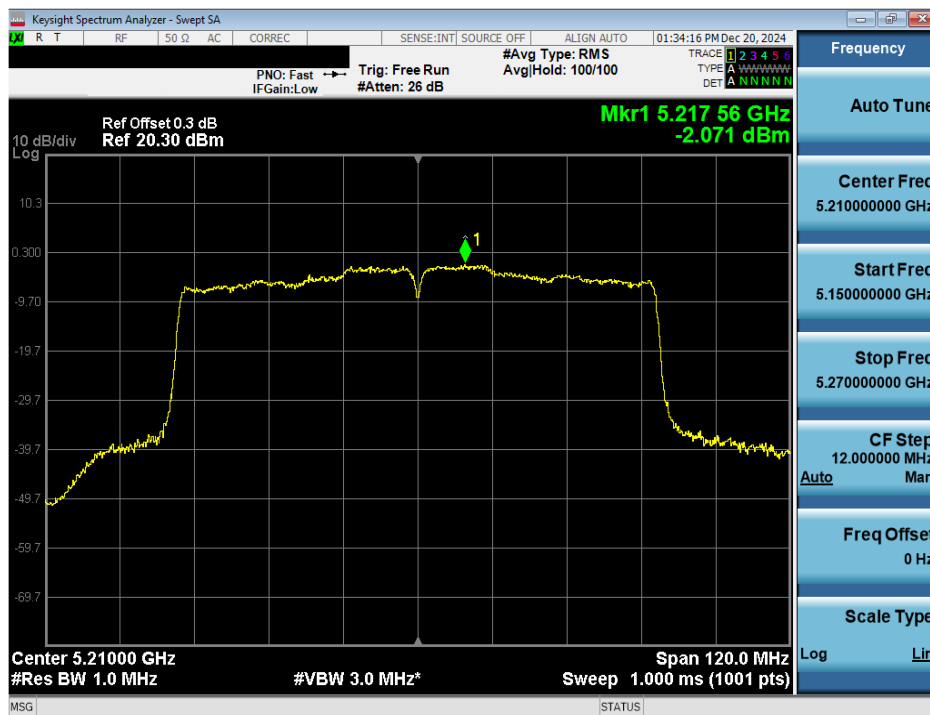


Plot 7-29. ISED PSD Antenna WF7a (20MHz BW 11n – Ch.40)

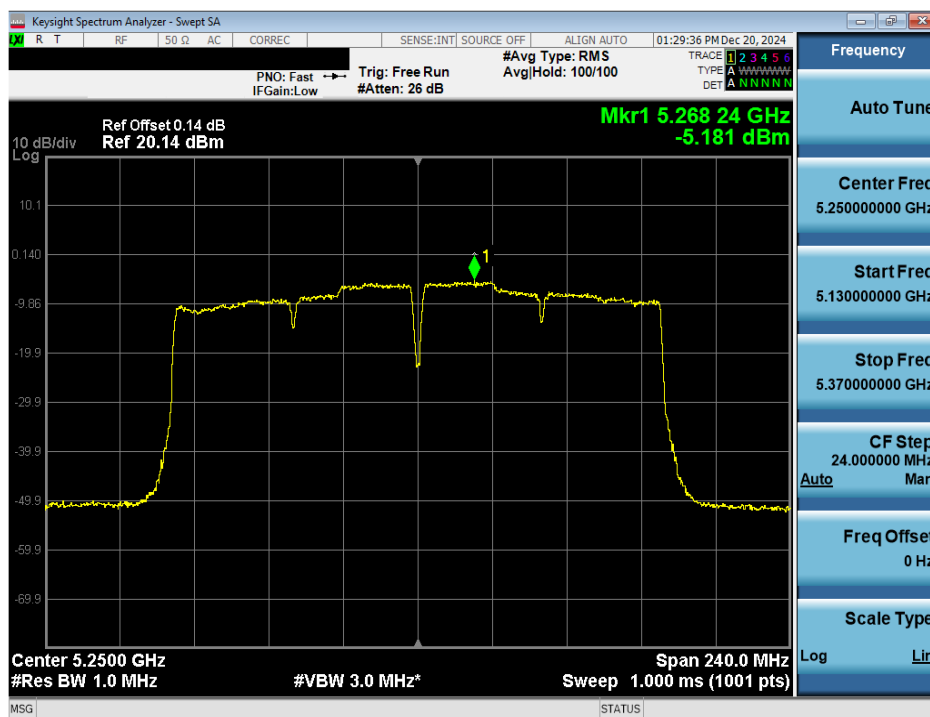


Plot 7-30. ISED PSD Antenna WF7a (40MHz BW 11n – Ch.46)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 86 of 272



Plot 7-31. ISED PSD Antenna WF7a (80MHz BW 11ac – Ch.42)



Plot 7-32. ISED PSD Antenna WF7a (160MHz BW 11ac – Ch.50)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 87 of 272

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7.5.2 Antenna WF2a Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	19.5/21.7 (MCS2)	8.65	11.00	-2.35
	5200	40	n (20MHz)	39/43.3 (MCS4)	10.06	11.00	-0.94
	5240	48	n (20MHz)	39/43.3 (MCS4)	9.83	11.00	-1.17
	5180	36	ax (SU) (20MHz)	24/25.8 (MCS2)	7.17	11.00	-3.83
	5200	40	ax (SU) (20MHz)	135/143.4 (MCS11)	8.85	11.00	-2.16
	5240	48	ax (SU) (20MHz)	135/143.4 (MCS11)	8.46	11.00	-2.54
	5190	38	n (40MHz)	40/40.5 (MCS2)	3.88	11.00	-7.12
	5230	46	n (40MHz)	81/90 (MCS4)	7.16	11.00	-3.84
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	1.24	11.00	-9.76
	5230	46	ax (SU) (40MHz)	271/286 (MCS11)	6.23	11.00	-4.77
	5210	42	ac (80MHz)	87.8/97.5 (MCS2)	-0.62	11.00	-11.62
Band 1/2	5210	42	ax (SU) (80MHz)	102/108.1 (MCS2)	-2.13	11.00	-13.13
	5250	50	ac (160MHz)	175.5/195 (MCS4)	-4.31	11.00	-15.31
Band 2A	5250	50	ax (SU) (160MHz)	204/216.2 (MCS4)	-5.55	11.00	-16.55
	5260	52	n (20MHz)	39/43.3 (MCS4)	9.60	11.00	-1.40
	5300	60	n (20MHz)	19.5/21.7 (MCS2)	9.79	11.00	-1.21
	5320	64	n (20MHz)	19.5/21.7 (MCS2)	8.71	11.00	-2.29
	5260	52	ax (SU) (20MHz)	135/143.4 (MCS11)	8.18	11.00	-2.82
	5300	60	ax (SU) (20MHz)	135/143.4 (MCS11)	8.16	11.00	-2.84
	5320	64	ax (SU) (20MHz)	24/25.8 (MCS2)	6.75	11.00	-4.25
	5270	54	n (40MHz)	81/90 (MCS4)	7.11	11.00	-3.89
	5310	62	n (40MHz)	40/40.5 (MCS2)	4.63	11.00	-6.37
	5270	54	ax (SU) (40MHz)	271/286 (MCS11)	6.28	11.00	-4.72
	5310	62	ax (SU) (40MHz)	49/51.6 (MCS2)	3.02	11.00	-7.98
	5290	58	ac (80MHz)	87.8/97.5 (MCS2)	1.08	11.00	-9.93
	5290	58	ax (SU) (80MHz)	102/108.1 (MCS2)	-0.25	11.00	-11.25
Band 2C	5500	100	n (20MHz)	19.5/21.7 (MCS2)	8.92	11.00	-2.08
	5580	116	n (20MHz)	19.5/21.7 (MCS2)	9.47	11.00	-1.53
	5700	140	n (20MHz)	19.5/21.7 (MCS2)	8.16	11.00	-2.84
	5720	144	n (20MHz)	39/43.3 (MCS4)	9.63	11.00	-1.37
	5500	100	ax (SU) (20MHz)	24/25.8 (MCS2)	6.43	11.00	-4.57
	5580	116	ax (SU) (20MHz)	135/143.4 (MCS11)	8.28	11.00	-2.72
	5700	140	ax (SU) (20MHz)	24/25.8 (MCS2)	6.42	11.00	-4.58
	5720	144	ax (SU) (20MHz)	135/143.4 (MCS11)	8.26	11.00	-2.74
	5510	102	n (40MHz)	40/40.5 (MCS2)	3.58	11.00	-7.42
	5550	110	n (40MHz)	81/90 (MCS4)	7.03	11.00	-3.97
	5670	134	n (40MHz)	40/40.5 (MCS2)	6.66	11.00	-4.34
	5710	142	n (40MHz)	40/40.5 (MCS2)	7.27	11.00	-3.73
	5510	102	ax (SU) (40MHz)	49/51.6 (MCS2)	2.07	11.00	-8.93
	5550	110	ax (SU) (40MHz)	271/286 (MCS11)	6.01	11.00	-4.99
	5670	134	ax (SU) (40MHz)	49/51.6 (MCS2)	5.58	11.00	-5.42
	5710	142	ax (SU) (40MHz)	98/103.2 (MCS4)	5.79	11.00	-5.21
	5530	106	ac (80MHz)	87.8/97.5 (MCS2)	-0.60	11.00	-11.60
	*5610	122	ac (80MHz)	87.8/97.5 (MCS2)	3.92	11.00	-7.08
	5690	138	ac (80MHz)	175.5/195 (MCS4)	4.38	11.00	-6.62
	5530	106	ax (SU) (80MHz)	102/108.1 (MCS2)	-2.24	11.00	-13.24
	*5610	122	ax (SU) (80MHz)	204/216.2 (MCS4)	2.69	11.00	-8.31
	5690	138	ax (SU) (80MHz)	102/108.1 (MCS2)	2.97	11.00	-8.03
	*5570	114	ac (160MHz)	175.5/195 (MCS4)	-5.01	11.00	-16.01
	*5570	114	ax (SU) (160MHz)	102/108.1 (MCS2)	-6.25	11.00	-17.25

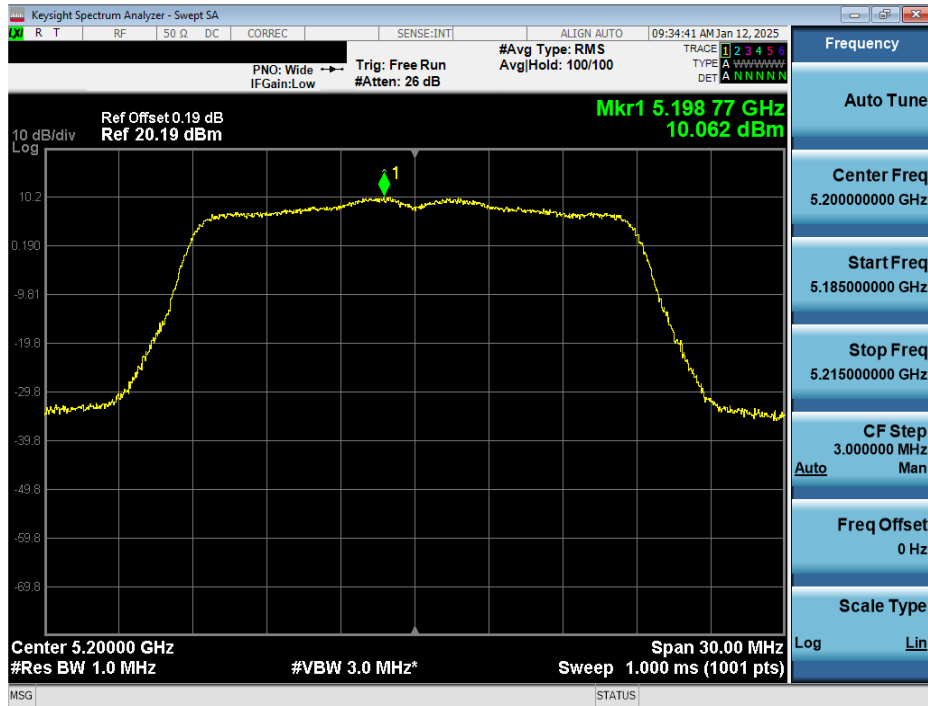
Table 7-101. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna WF2a

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

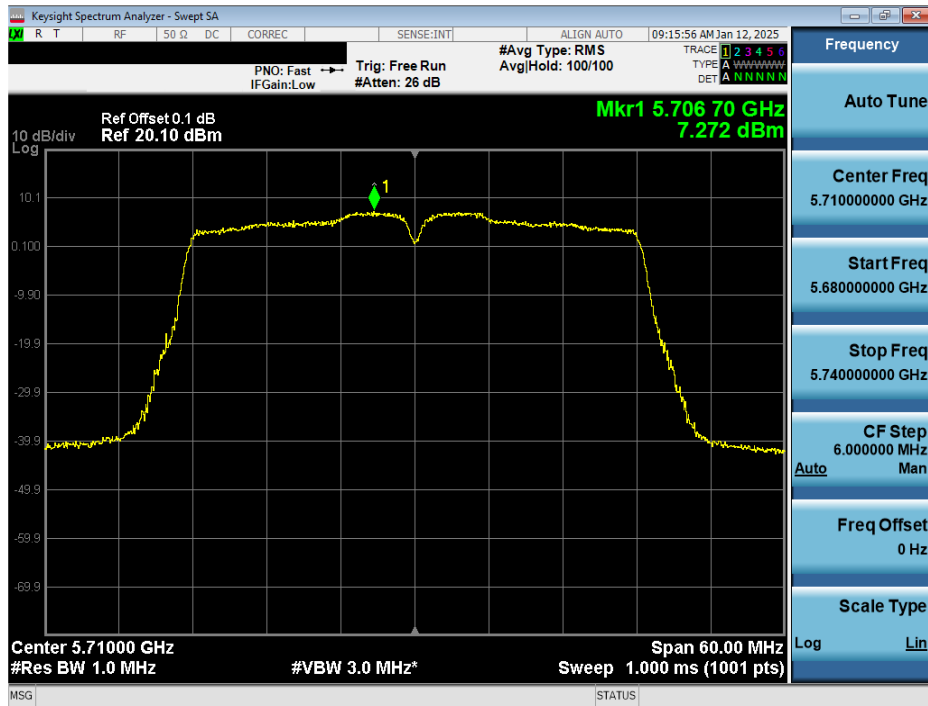
FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 88 of 272

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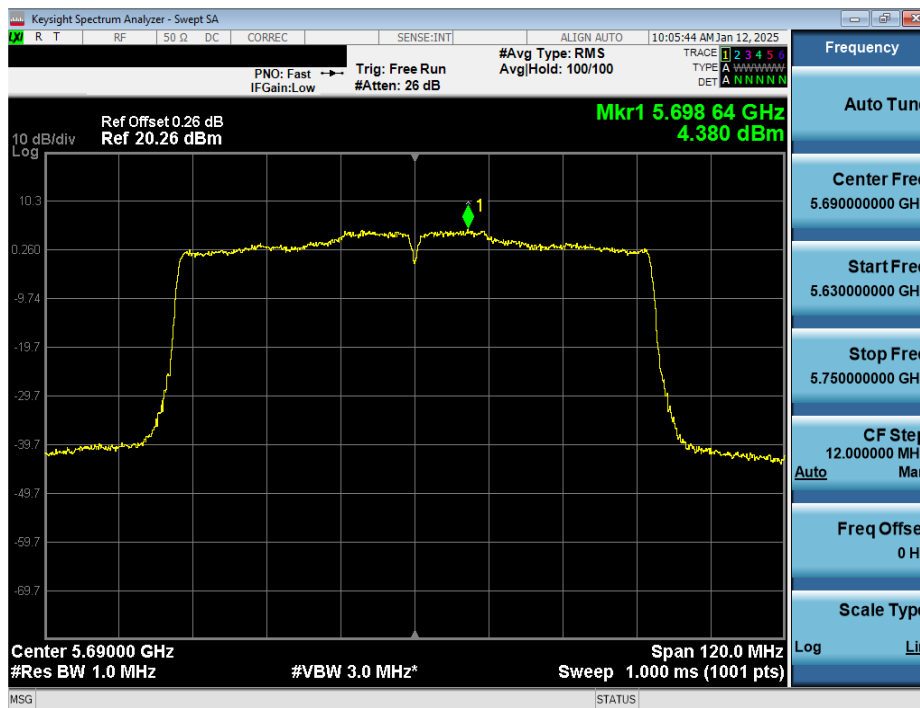


Plot 7-33. PSD Antenna WF2a (20MHz BW 802.11n – Ch.40)

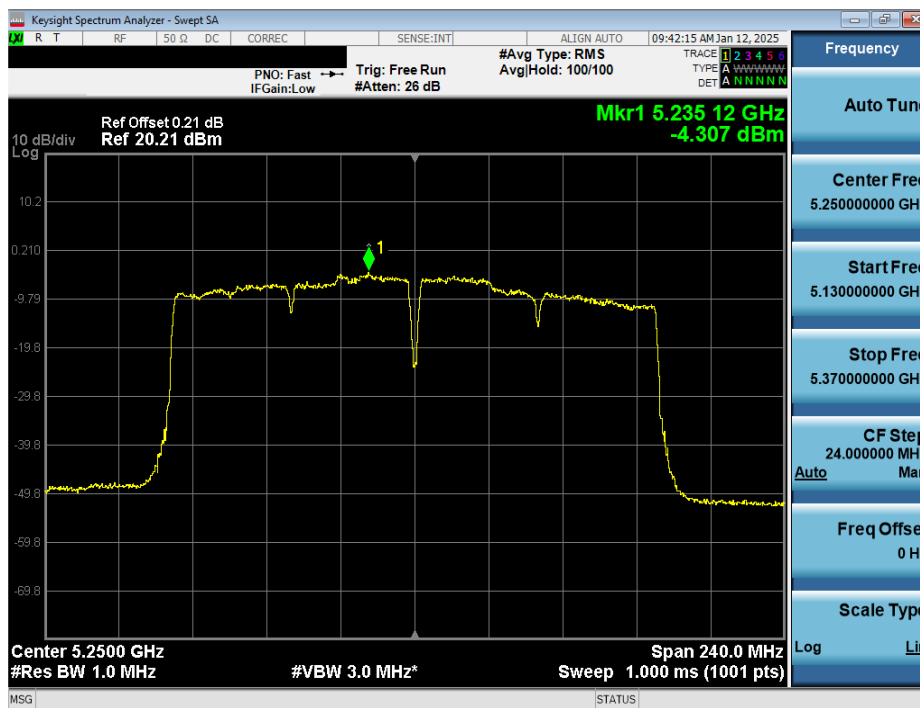


Plot 7-34. PSD Antenna WF2a (40MHz BW 802.11n – Ch. 142)

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 89 of 272



Plot 7-35. PSD Antenna WF2a (80MHz BW 802.11ac – Ch. 138)



Plot 7-36. PSD Antenna WF2a (160MHz BW 802.11ac – Ch. 50)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 90 of 272

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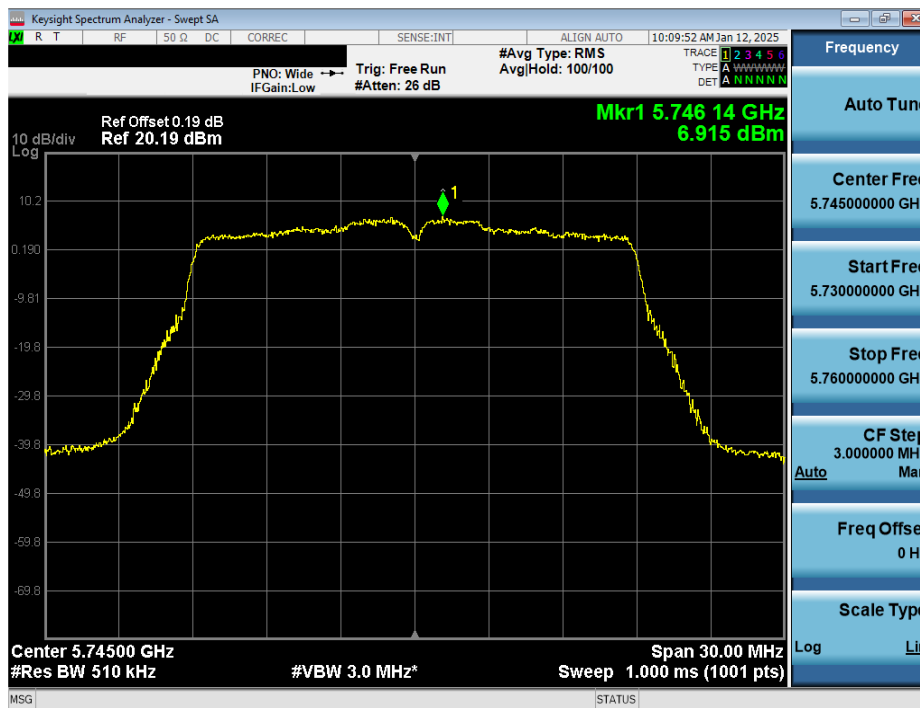
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	39/43.3 (MCS4)	6.92	30.0	-23.09
	5785	157	n (20MHz)	39/43.3 (MCS4)	6.44	30.0	-23.56
	5825	165	n (20MHz)	39/43.3 (MCS4)	6.72	30.0	-23.28
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	5.47	30.0	-24.53
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	5.17	30.0	-24.83
	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	5.19	30.0	-24.81
	5755	151	n (40MHz)	81/90 (MCS4)	4.65	30.0	-25.35
	5795	159	n (40MHz)	81/90 (MCS4)	4.36	30.0	-25.64
	5755	151	ax (SU) (40MHz)	271/286 (MCS11)	3.71	30.0	-26.29
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	2.99	30.0	-27.01
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	-0.07	30.0	-30.07
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	-1.77	30.0	-31.77

Table 7-102. Band 3 Power Spectral Density Measurements Antenna WF2a

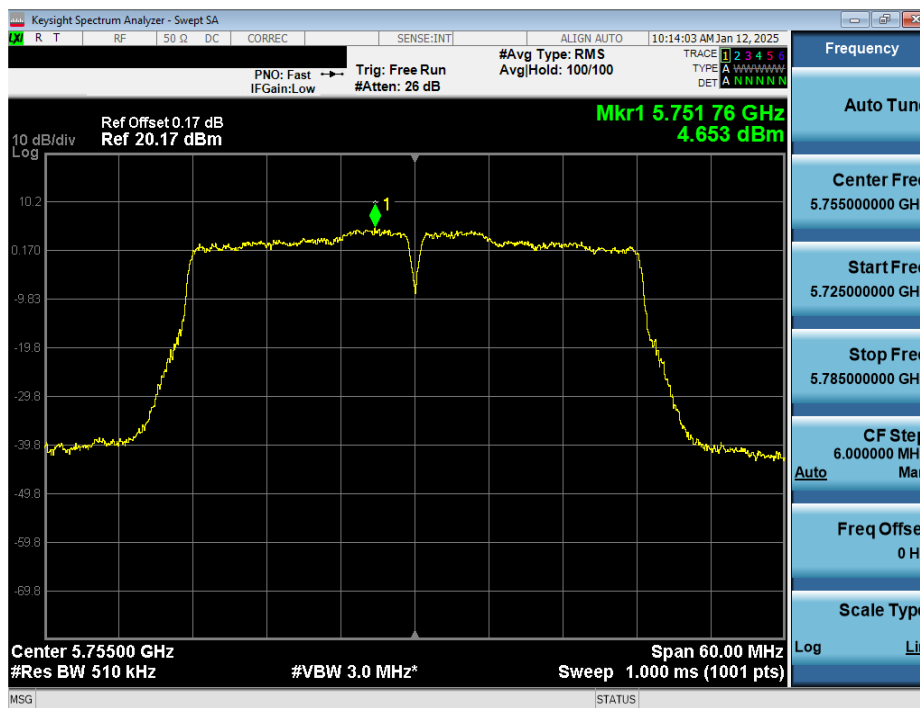
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 91 of 272

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Plot 7-37. PSD Antenna WF2a (20MHz BW 802.11n – Ch. 149)

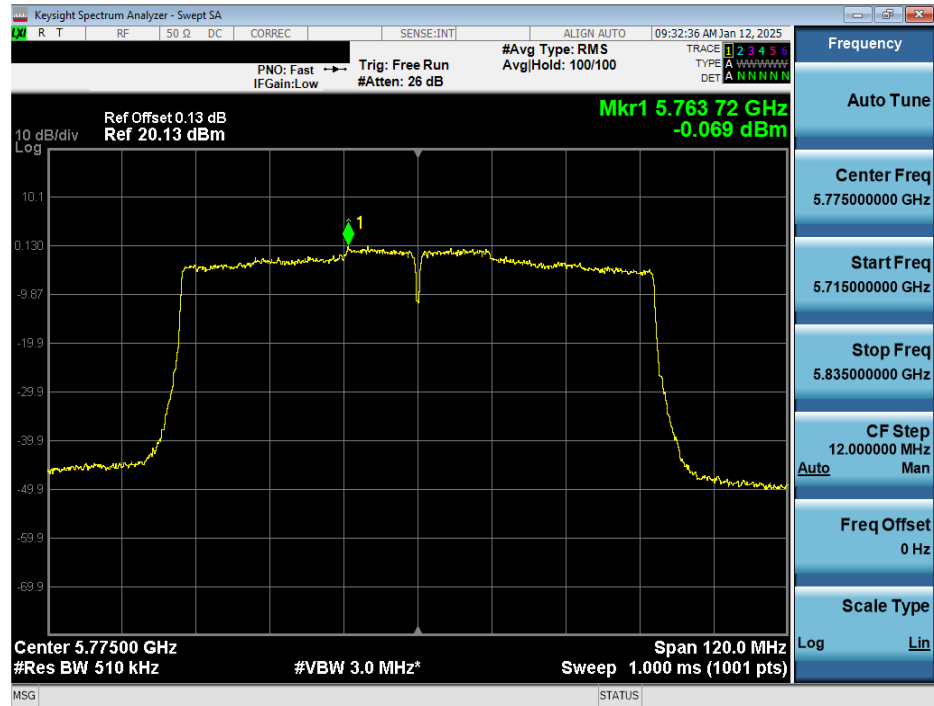


Plot 7-38. PSD Antenna WF2a (40MHz BW 802.11n – Ch. 151)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 92 of 272

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Plot 7-39. PSD Antenna WF2a (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 93 of 272

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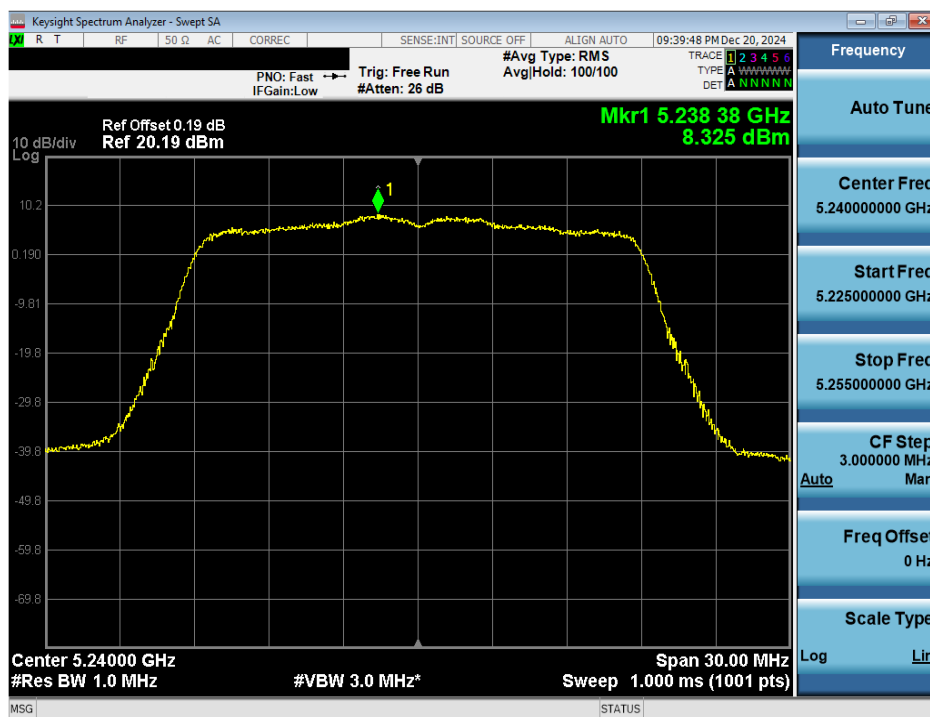
	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	19.5/21.7 (MCS2)	7.81	0.70	8.51	10.0	-1.49
	5200	40	n (20MHz)	19.5/21.7 (MCS2)	7.87	0.70	8.57	10.0	-1.43
	5240	48	n (20MHz)	39/43.3 (MCS4)	8.33	0.70	9.03	10.0	-0.98
	5180	36	ax (SU) (20MHz)	24/25.8 (MCS2)	6.28	0.70	6.98	10.0	-3.02
	5200	40	ax (SU) (20MHz)	135/143.4 (MCS11)	7.70	0.70	8.40	10.0	-1.60
	5240	48	ax (SU) (20MHz)	135/143.4 (MCS11)	7.89	0.70	8.59	10.0	-1.41
	5190	38	n (40MHz)	40/40.5 (MCS2)	3.00	0.70	3.70	10.0	-6.31
	5230	46	n (40MHz)	81/90 (MCS4)	6.76	0.70	7.46	10.0	-2.54
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	0.37	0.70	1.07	10.0	-8.93
	5230	46	ax (SU) (40MHz)	98/103.2 (MCS4)	5.17	0.70	5.87	10.0	-4.13
	5210	42	ac (80MHz)	175.5/195 (MCS4)	-1.56	0.70	-0.86	10.0	-10.86
	5210	42	ax (SU) (80MHz)	102/108.1 (MCS2)	-2.51	0.70	-1.81	10.0	-11.81
Band 1/2	5250	50	ac (160MHz)	175.5/195 (MCS4)	-5.21	0.70	-4.51	10.0	-14.51
	5250	50	ax (SU) (160MHz)	102/108.1 (MCS2)	-6.12	0.70	-5.42	10.0	-15.42

Table 7-103. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna WF2a

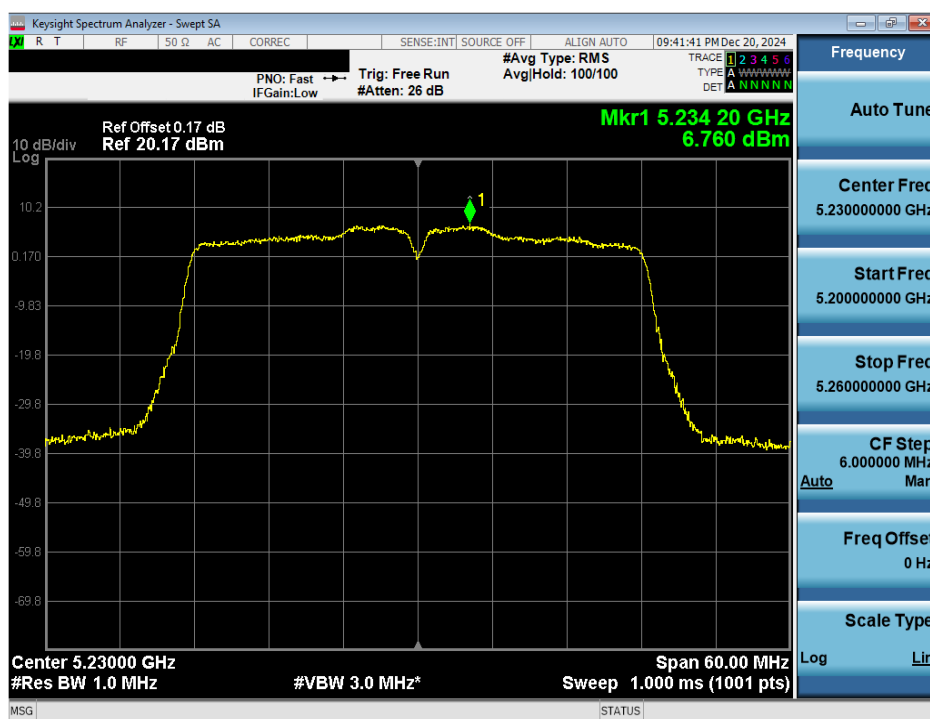
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 94 of 272

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Plot 7-40. ISED PSD Antenna WF2a (20MHz BW 11n – Ch.48)

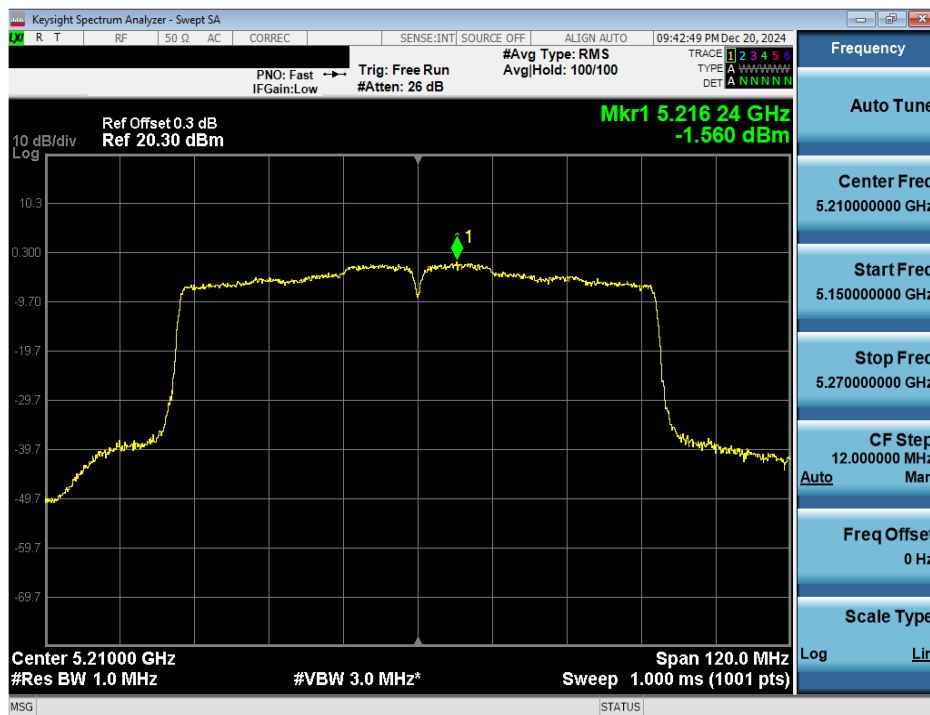


Plot 7-41. ISED PSD Antenna WF2a (40MHz BW 11n – Ch.46)

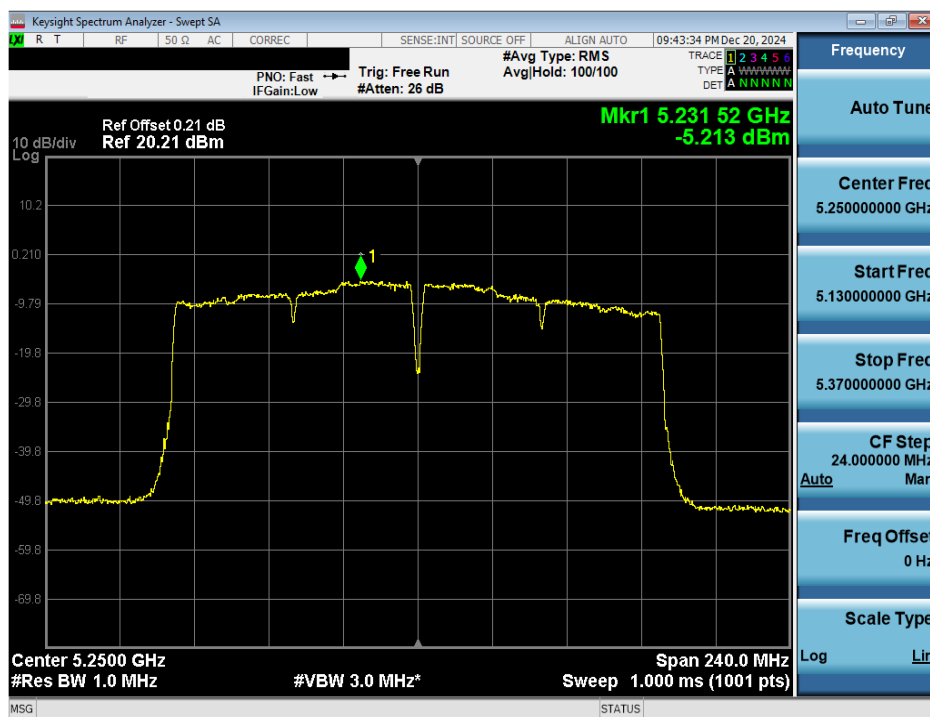
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 95 of 272

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Plot 7-42. ISED PSD Antenna WF2a (80MHz BW 11ac – Ch.42)



Plot 7-43. ISED PSD Antenna WF2a (160MHz BW 11ac – Ch.50)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 96 of 272

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7.5.3 Antenna WF7b Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	19.5/21.7 (MCS2)	8.72	11.00	-2.28
	5200	40	n (20MHz)	39/43.3 (MCS4)	10.10	11.00	-0.90
	5240	48	n (20MHz)	39/43.3 (MCS4)	9.94	11.00	-1.06
	5180	36	ax (SU) (20MHz)	24/25.8 (MCS2)	6.82	11.00	-4.18
	5200	40	ax (SU) (20MHz)	49/51.6 (MCS4)	8.93	11.00	-2.07
	5240	48	ax (SU) (20MHz)	135/143.4 (MCS11)	8.54	11.00	-2.46
	5190	38	n (40MHz)	40/40.5 (MCS2)	4.58	11.00	-6.42
	5230	46	n (40MHz)	81/90 (MCS4)	7.87	11.00	-3.13
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	1.78	11.00	-9.22
	5230	46	ax (SU) (40MHz)	98/103.2 (MCS4)	6.49	11.00	-4.51
Band 1/2	5210	42	ac (80MHz)	87.8/97.5 (MCS2)	-0.28	11.00	-11.28
	5210	42	ax (SU) (80MHz)	204/216.2 (MCS4)	-2.08	11.00	-13.08
Band 2A	5250	50	ac (160MHz)	175.5/195 (MCS4)	-4.59	11.00	-15.59
	5250	50	ax (SU) (160MHz)	102/108.1 (MCS2)	-5.59	11.00	-16.59
	5260	52	n (20MHz)	19.5/21.7 (MCS2)	10.12	11.00	-0.88
	5300	60	n (20MHz)	19.5/21.7 (MCS2)	9.86	11.00	-1.14
	5320	64	n (20MHz)	19.5/21.7 (MCS2)	9.27	11.00	-1.73
	5260	52	ax (SU) (20MHz)	135/143.4 (MCS11)	8.67	11.00	-2.33
	5300	60	ax (SU) (20MHz)	135/143.4 (MCS11)	8.69	11.00	-2.31
	5320	64	ax (SU) (20MHz)	24/25.8 (MCS2)	7.08	11.00	-3.92
	5270	54	n (40MHz)	81/90 (MCS4)	7.61	11.00	-3.39
	5310	62	n (40MHz)	40/40.5 (MCS2)	5.18	11.00	-5.82
Band 2C	5270	54	ax (SU) (40MHz)	98/103.2 (MCS4)	6.26	11.00	-4.74
	5310	62	ax (SU) (40MHz)	49/51.6 (MCS2)	3.37	11.00	-7.63
	5290	58	ac (80MHz)	87.8/97.5 (MCS2)	1.43	11.00	-9.58
	5290	58	ax (SU) (80MHz)	204/216.2 (MCS4)	-0.70	11.00	-11.70
	5500	100	n (20MHz)	19.5/21.7 (MCS2)	9.49	11.00	-1.51
	5580	116	n (20MHz)	39/43.3 (MCS4)	9.60	11.00	-1.40
	5700	140	n (20MHz)	19.5/21.7 (MCS2)	8.44	11.00	-2.56
	5720	144	n (20MHz)	19.5/21.7 (MCS2)	10.08	11.00	-0.92
	5500	100	ax (SU) (20MHz)	24/25.8 (MCS2)	6.96	11.00	-4.04
	5580	116	ax (SU) (20MHz)	135/143.4 (MCS11)	8.38	11.00	-2.62
	5700	140	ax (SU) (20MHz)	24/25.8 (MCS2)	6.76	11.00	-4.24
	5720	144	ax (SU) (20MHz)	135/143.4 (MCS11)	8.74	11.00	-2.26
	5510	102	n (40MHz)	40/40.5 (MCS2)	3.65	11.00	-7.35
	5550	110	n (40MHz)	81/90 (MCS4)	7.40	11.00	-3.60
	5670	134	n (40MHz)	40/40.5 (MCS2)	7.21	11.00	-3.79
	5710	142	n (40MHz)	40/40.5 (MCS2)	7.38	11.00	-3.62
	5510	102	ax (SU) (40MHz)	49/51.6 (MCS2)	2.34	11.00	-8.67
	5550	110	ax (SU) (40MHz)	98/103.2 (MCS4)	6.03	11.00	-4.97
	5670	134	ax (SU) (40MHz)	49/51.6 (MCS2)	5.44	11.00	-5.56
	5710	142	ax (SU) (40MHz)	271/286 (MCS11)	6.29	11.00	-4.71
	5530	106	ac (80MHz)	87.8/97.5 (MCS2)	-0.56	11.00	-11.56
	*5610	122	ac (80MHz)	175.5/195 (MCS4)	3.96	11.00	-7.04
	5690	138	ac (80MHz)	175.5/195 (MCS4)	4.64	11.00	-6.36
	5530	106	ax (SU) (80MHz)	102/108.1 (MCS2)	-1.64	11.00	-12.64
	*5610	122	ax (SU) (80MHz)	204/216.2 (MCS4)	2.70	11.00	-8.30
	5690	138	ax (SU) (80MHz)	204/216.2 (MCS4)	3.18	11.00	-7.82
	*5570	114	ac (160MHz)	175.5/195 (MCS4)	-5.46	11.00	-16.46
	*5570	114	ax (SU) (80MHz)	102/108.1 (MCS2)	-6.36	11.00	-17.36

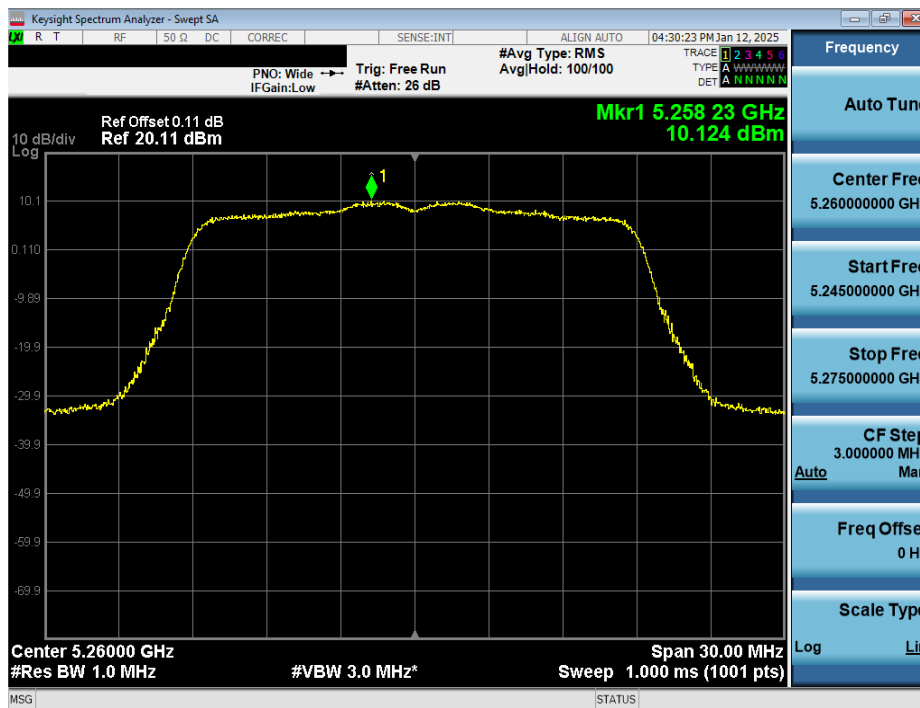
Table 7-104. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna WF7b

*TDWR channel is not supported for ISED (denoted by a * next to the frequency)

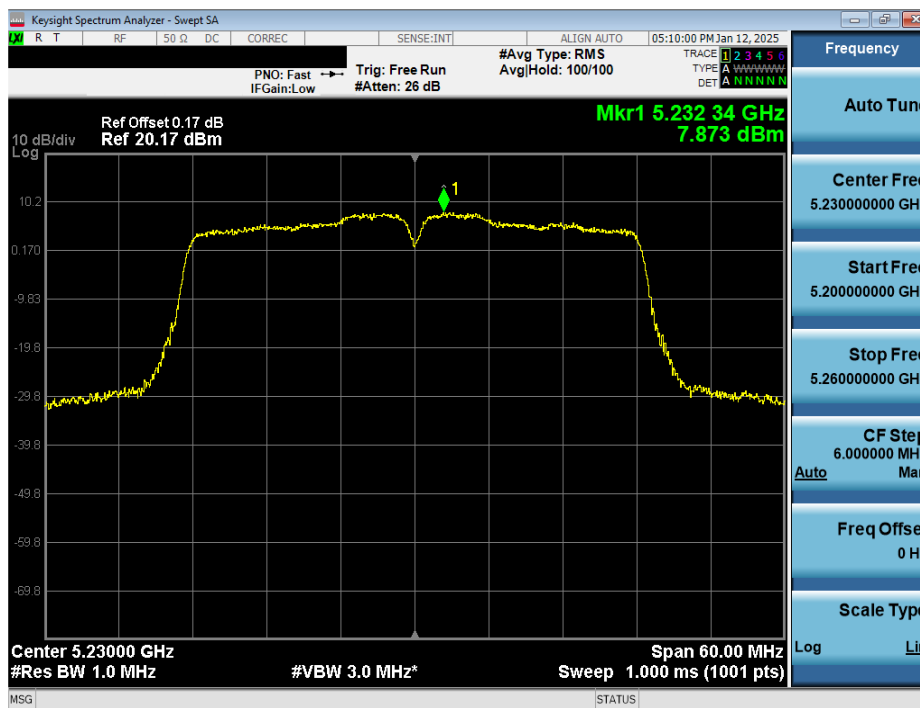
FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 97 of 272

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Plot 7-44. PSD Antenna WF7b (20MHz BW 802.11n – Ch.52)

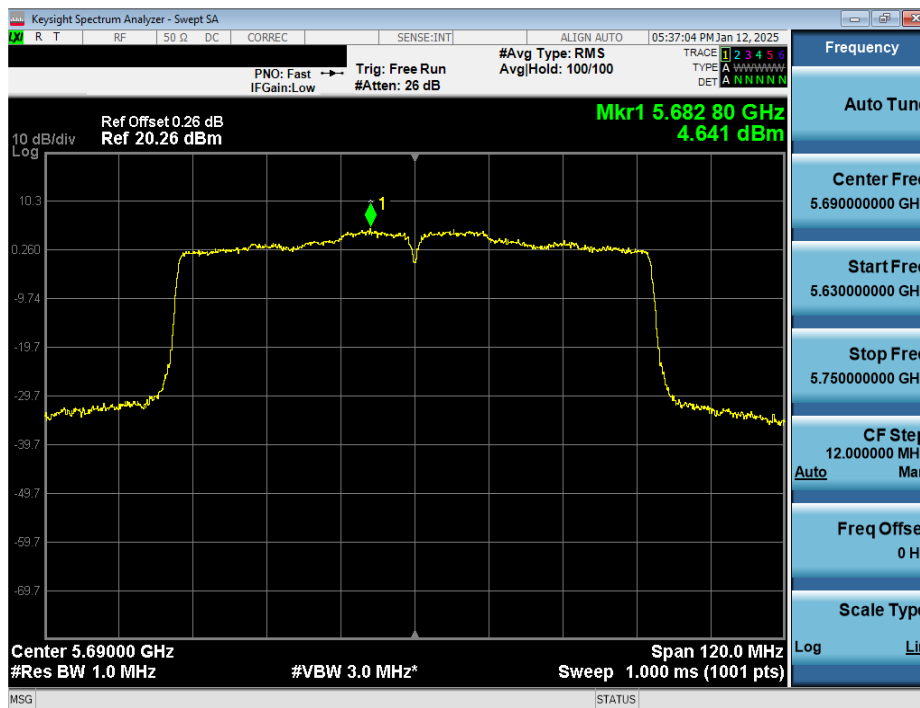


Plot 7-45. PSD Antenna WF7b (40MHz BW 802.11n – Ch. 46)

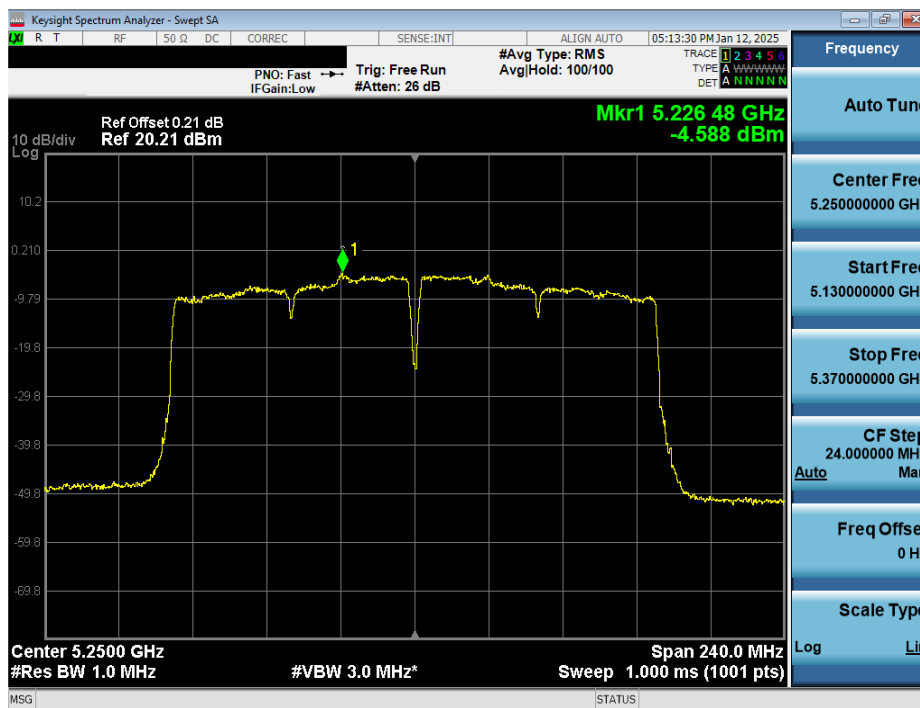
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 98 of 272

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Plot 7-46. PSD Antenna WF7b (80MHz BW 802.11ac – Ch. 138)



Plot 7-47. PSD Antenna WF7b (160MHz BW 802.11ac – Ch. 50)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 99 of 272

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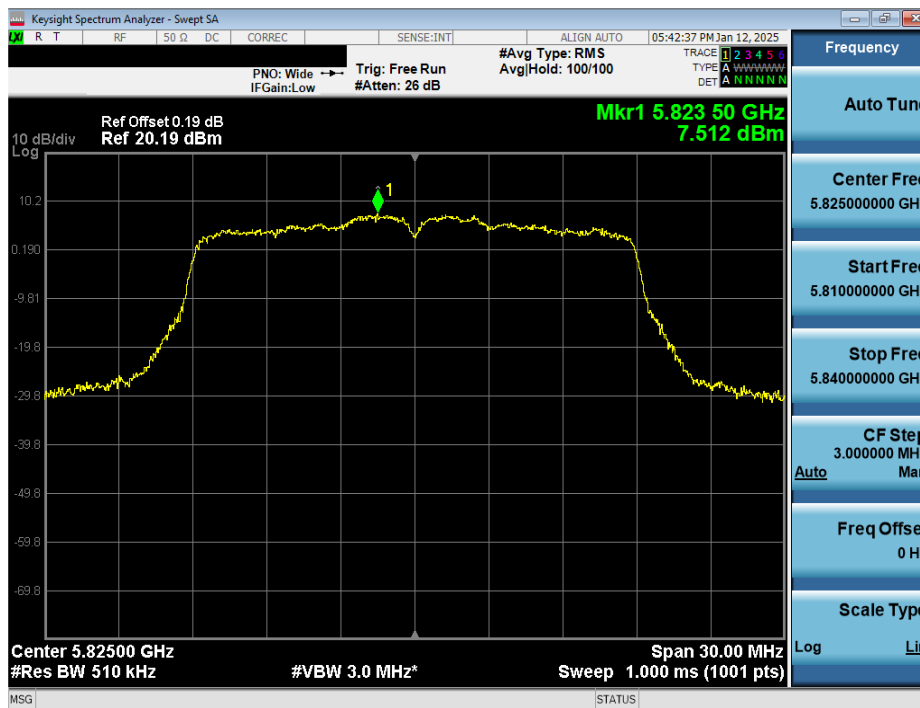
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	39/43.3 (MCS4)	7.43	30.0	-22.57
	5785	157	n (20MHz)	39/43.3 (MCS4)	7.04	30.0	-22.96
	5825	165	n (20MHz)	39/43.3 (MCS4)	7.51	30.0	-22.49
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	6.27	30.0	-23.73
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	5.75	30.0	-24.25
	5825	165	ax (SU) (20MHz)	135/143.4 (MCS11)	6.10	30.0	-23.90
	5755	151	n (40MHz)	40/40.5 (MCS2)	4.82	30.0	-25.18
	5795	159	n (40MHz)	81/90 (MCS4)	4.54	30.0	-25.46
	5755	151	ax (SU) (40MHz)	271/286 (MCS11)	3.79	30.0	-26.22
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	3.57	30.0	-26.43
	5775	155	ac (80MHz)	175.5/195 (MCS4)	0.50	30.0	-29.50
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	-1.57	30.0	-31.57

Table 7-105. Band 3 Power Spectral Density Measurements Antenna WF7b

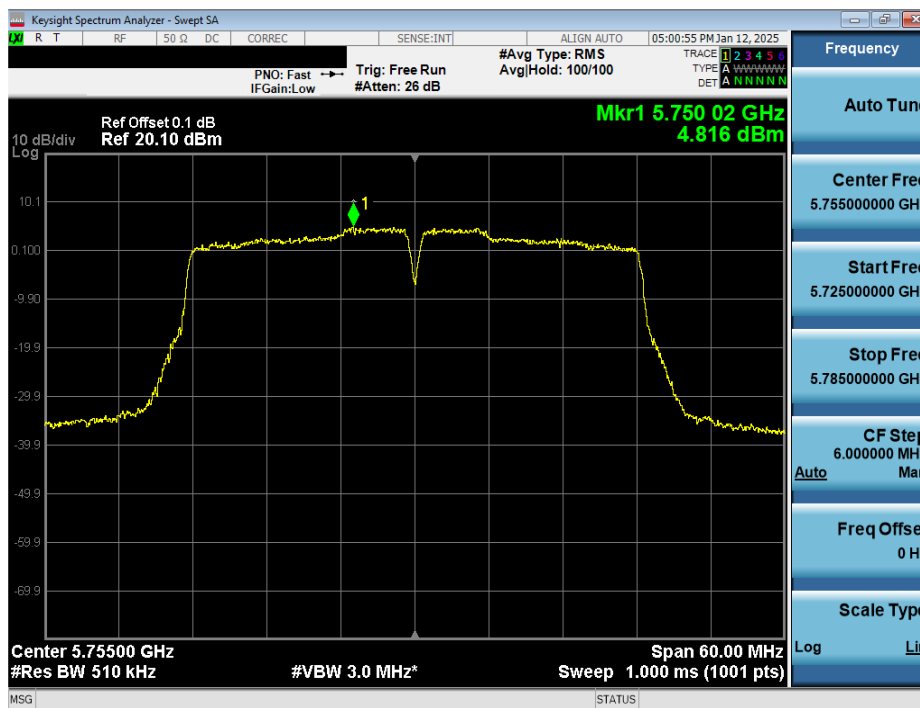
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 100 of 272

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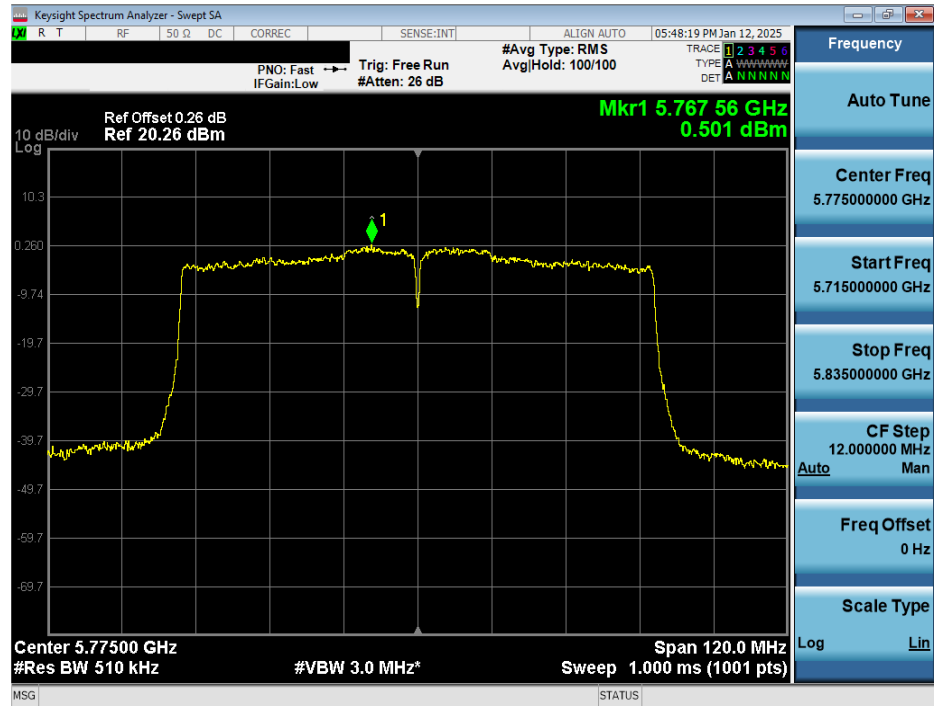



Plot 7-48. PSD Antenna WF7b (20MHz BW 802.11n – Ch. 165)



Plot 7-49. PSD Antenna WF7b (40MHz BW 802.11n – Ch. 151)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 101 of 272



FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 102 of 272

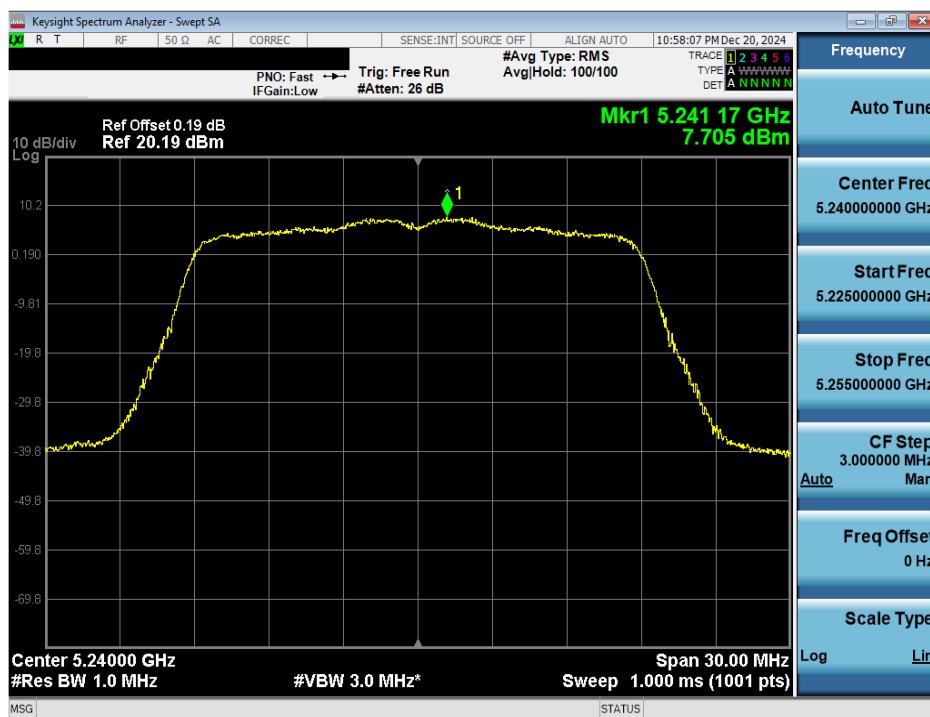
	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	39/43.3 (MCS4)	7.59	0.00	7.59	10.0	-2.41
	5200	40	n (20MHz)	39/43.3 (MCS4)	7.63	0.00	7.63	10.0	-2.37
	5240	48	n (20MHz)	39/43.3 (MCS4)	7.71	0.00	7.71	10.0	-2.30
	5180	36	ax (SU) (20MHz)	24/25.8 (MCS2)	6.03	0.00	6.03	10.0	-3.97
	5200	40	ax (SU) (20MHz)	49/51.6 (MCS4)	7.41	0.00	7.41	10.0	-2.59
	5240	48	ax (SU) (20MHz)	49/51.6 (MCS4)	7.60	0.00	7.60	10.0	-2.40
	5190	38	n (40MHz)	40/40.5 (MCS2)	3.26	0.00	3.26	10.0	-6.74
	5230	46	n (40MHz)	81/90 (MCS4)	6.64	0.00	6.64	10.0	-3.36
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	0.18	0.00	0.18	10.0	-9.82
	5230	46	ax (SU) (40MHz)	271/286 (MCS11)	5.34	0.00	5.34	10.0	-4.66
Band 1/2	5210	42	ac (80MHz)	87.8/97.5 (MCS2)	-2.09	0.00	-2.09	10.0	-12.09
	5210	42	ax (SU) (80MHz)	567/600.5 (MCS11)	-3.14	0.00	-3.14	10.0	-13.14
	5250	50	ac (160MHz)	175.5/195 (MCS4)	-5.64	0.00	-5.64	10.0	-15.64
	5250	50	ax (SU) (160MHz)	204/216.2 (MCS4)	-6.72	0.00	-6.72	10.0	-16.72

Table 7-106. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna WF7b

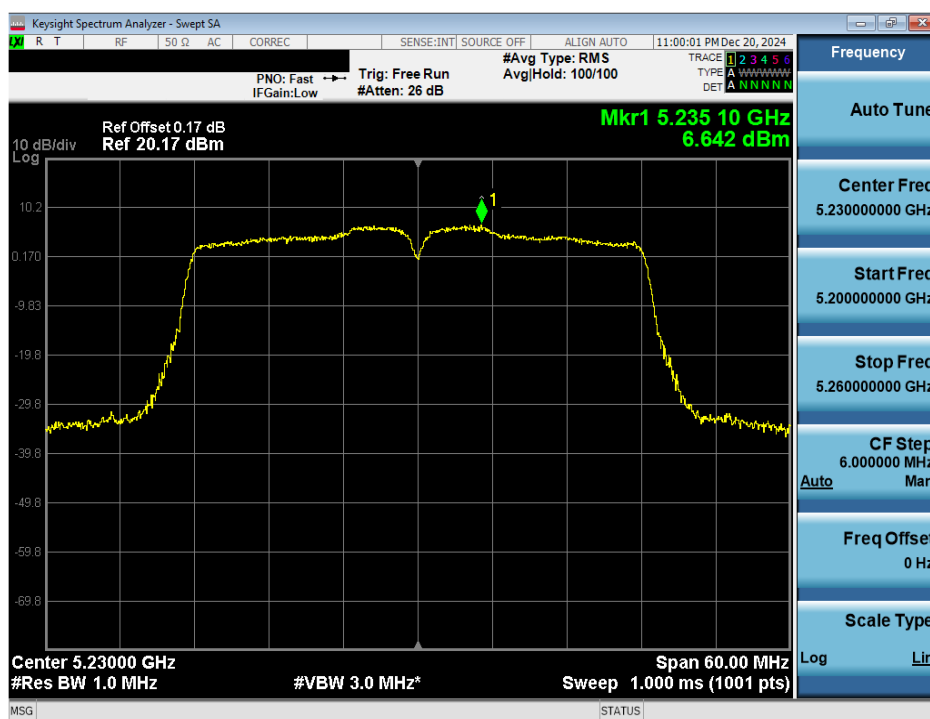
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 103 of 272

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Plot 7-51. ISED PSD Antenna WF7b (20MHz BW 11n – Ch.48)

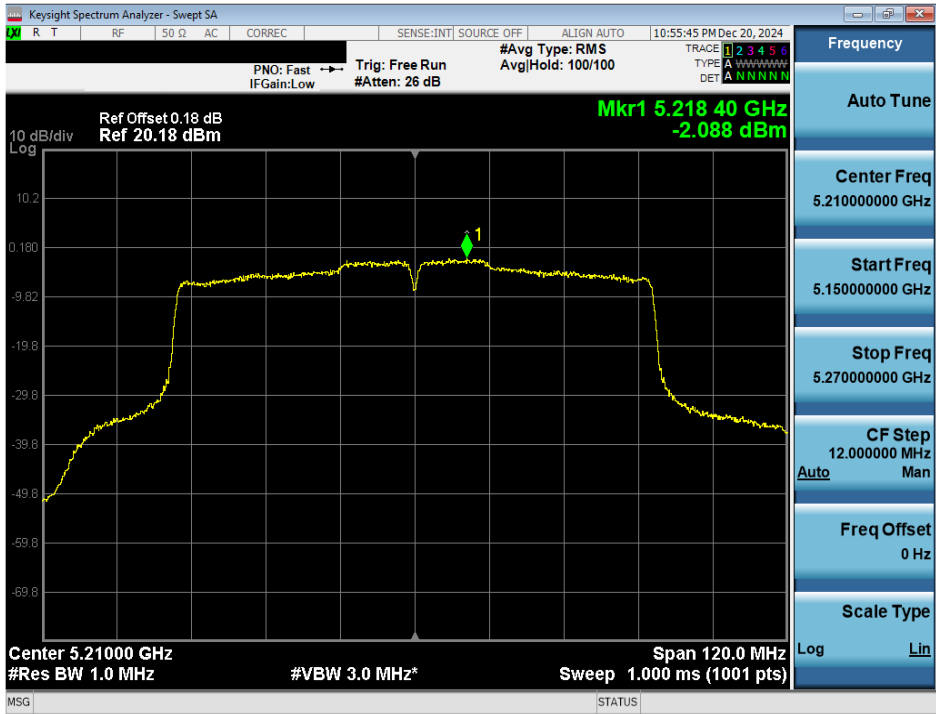


Plot 7-52. ISED PSD Antenna WF7b (40MHz BW 11n – Ch.46)

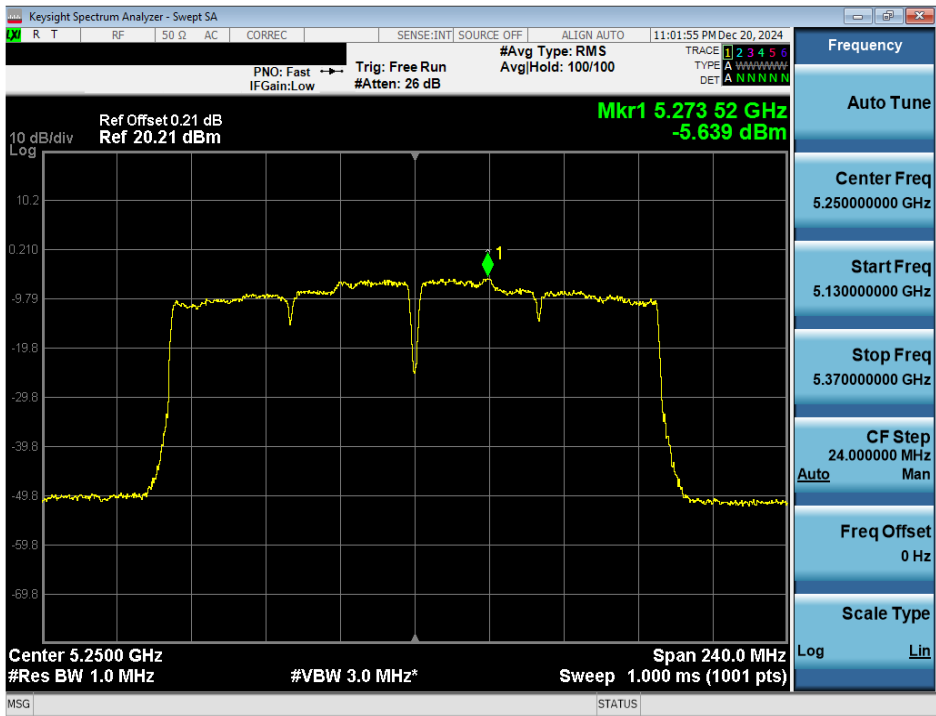
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 104 of 272

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Plot 7-53. ISED PSD Antenna WF7b (80MHz BW 11ac – Ch.42)



Plot 7-54. ISED PSD Antenna WF7b (160MHz BW 11ac – Ch.50)

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 105 of 272

7.5.4 Summed CDD Primary Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Mode	Antenna WF7a Power Density [dBm/MHz]	Antenna WF2a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	78/86.7 (MCS12)	CDD	7.20	7.38	10.30	11.00	-0.70
	5200	40	n (20MHz)	78/86.7 (MCS12)	CDD	7.29	7.69	10.50	11.00	-0.50
	5240	48	n (20MHz)	78/86.7 (MCS12)	CDD	6.95	7.46	10.22	11.00	-0.78
	5180	36	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	5.56	6.22	8.91	11.00	-2.09
	5200	40	ax (SU) (20MHz)	270/286.8 (MCS11)	CDD	6.79	7.21	10.02	11.00	-0.98
	5240	48	ax (SU) (20MHz)	270/286.8 (MCS11)	CDD	6.58	7.10	9.86	11.00	-1.14
	5190	38	n (40MHz)	81/60 (MCS10)	CDD	2.85	2.54	5.71	11.00	-5.29
	5230	46	n (40MHz)	162/180 (MCS12)	CDD	7.13	7.88	10.53	11.00	-0.47
	5190	38	ax (SU) (40MHz)	271/286.8 (MCS11)	CDD	0.20	0.68	3.46	11.00	-7.54
	5230	46	ax (SU) (40MHz)	271/286.8 (MCS11)	CDD	6.01	6.74	9.40	11.00	-1.60
	5210	42	ac (80MHz)	175.5/195 (MCS2)	CDD	-1.32	-0.80	1.96	11.00	-9.04
	5210	42	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	-2.76	-2.21	0.54	11.00	-10.46
Band 1/2	5250	50	ac (160MHz)	175.5/195 (MCS2)	CDD	-5.12	-4.72	-1.91	11.00	-12.91
	5250	50	ax (SU) (160MHz)	204/216.2 (MCS2)	CDD	-6.30	-5.34	-2.78	11.00	-13.78
Band 2A	5260	52	n (20MHz)	78/86.7 (MCS12)	CDD	6.79	7.43	10.13	11.00	-0.87
	5300	60	n (20MHz)	78/86.7 (MCS12)	CDD	7.09	7.53	10.33	11.00	-0.67
	5320	64	n (20MHz)	78/86.7 (MCS12)	CDD	6.89	7.17	10.04	11.00	-0.96
	5260	52	ax (SU) (20MHz)	270/286.8 (MCS11)	CDD	6.55	6.91	9.74	11.00	-1.26
	5300	60	ax (SU) (20MHz)	98/103.2 (MCS4)	CDD	6.66	6.91	9.80	11.00	-1.20
	5320	64	ax (SU) (20MHz)	98/103.2 (MCS4)	CDD	6.59	6.27	9.44	11.00	-1.56
	5270	54	n (40MHz)	162/180 (MCS12)	CDD	7.14	7.74	10.46	11.00	-0.54
	5310	62	n (40MHz)	162/180 (MCS12)	CDD	3.88	4.28	7.09	11.00	-3.91
	5270	54	ax (SU) (40MHz)	271/286.8 (MCS11)	CDD	6.10	6.55	9.34	11.00	-1.66
	5310	62	ax (SU) (40MHz)	98/103.2 (MCS2)	CDD	1.84	2.10	4.98	11.00	-6.02
	5290	58	ac (80MHz)	175.5/195 (MCS2)	CDD	0.71	1.25	4.00	11.00	-7.00
	5290	58	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	-1.09	-0.46	2.25	11.00	-8.75
Band 2C	5500	100	n (20MHz)	78/86.7 (MCS12)	CDD	6.83	7.34	10.10	11.00	-0.90
	5580	116	n (20MHz)	78/86.7 (MCS12)	CDD	7.33	7.23	10.29	11.00	-0.71
	5700	140	n (20MHz)	39/43.3 (MCS10)	CDD	6.77	7.11	9.95	11.00	-1.05
	5720	144	n (20MHz)	78/86.7 (MCS12)	CDD	6.73	7.57	10.18	11.00	-0.82
	5500	100	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	5.25	5.79	8.54	11.00	-2.46
	5580	116	ax (SU) (20MHz)	270/286.8 (MCS11)	CDD	6.88	6.57	9.74	11.00	-1.26
	5700	140	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	5.02	5.72	8.39	11.00	-2.61
	5720	144	ax (SU) (20MHz)	270/286.8 (MCS11)	CDD	6.97	6.84	9.91	11.00	-1.09
	5510	102	n (40MHz)	81/60 (MCS10)	CDD	2.96	3.63	6.32	11.00	-4.68
	5550	110	n (40MHz)	81/60 (MCS10)	CDD	7.01	7.34	10.19	11.00	-0.81
	5670	134	n (40MHz)	81/60 (MCS10)	CDD	6.38	6.80	9.60	11.00	-1.40
	5710	142	n (40MHz)	162/180 (MCS12)	CDD	6.85	7.84	10.39	11.00	-0.61
	5510	102	ax (SU) (40MHz)	98/103.2 (MCS2)	CDD	1.34	1.38	4.37	11.00	-6.63
	5550	110	ax (SU) (40MHz)	271/286.8 (MCS11)	CDD	5.92	6.11	9.03	11.00	-1.97
	5670	134	ax (SU) (40MHz)	98/103.2 (MCS2)	CDD	4.19	5.02	7.63	11.00	-3.37
	5710	142	ax (SU) (40MHz)	271/286.8 (MCS11)	CDD	5.78	6.19	9.00	11.00	-2.00
	5530	106	ac (80MHz)	175.5/195 (MCS2)	CDD	-1.09	-0.70	2.12	11.00	-8.88
	5610	122	ac (80MHz)	175.5/195 (MCS2)	CDD	3.51	3.71	6.62	11.00	-4.38
	5690	138	ac (80MHz)	351/390 (MCS4)	CDD	3.95	4.41	7.20	11.00	-3.80
	5530	106	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	-2.76	-2.41	0.43	11.00	-10.57
	5610	122	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	2.51	3.07	5.81	11.00	-5.19
	5690	138	ax (SU) (80MHz)	1134/1201 (MCS11)	CDD	3.13	3.26	6.21	11.00	-4.79
	5570	114	ac (160MHz)	175.5/195 (MCS2)	CDD	-5.38	-4.65	-1.99	11.00	-12.99
	5570	114	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	-6.38	-6.70	-3.52	11.00	-14.52

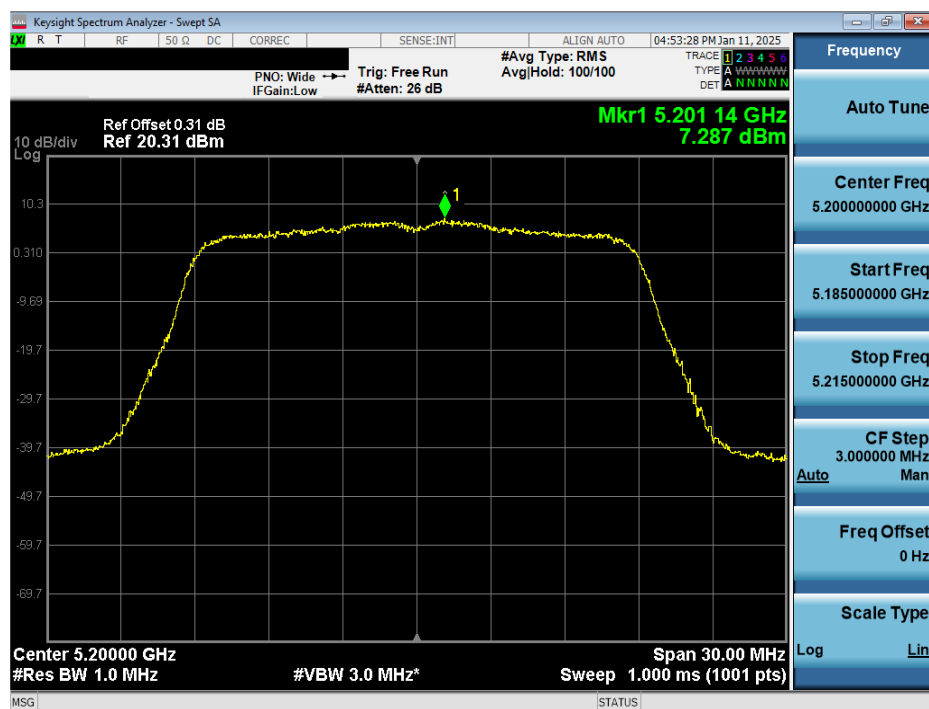
Table 7-107. Bands 1, 2A, 2C CDD Primary Power Spectral Density Measurements

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

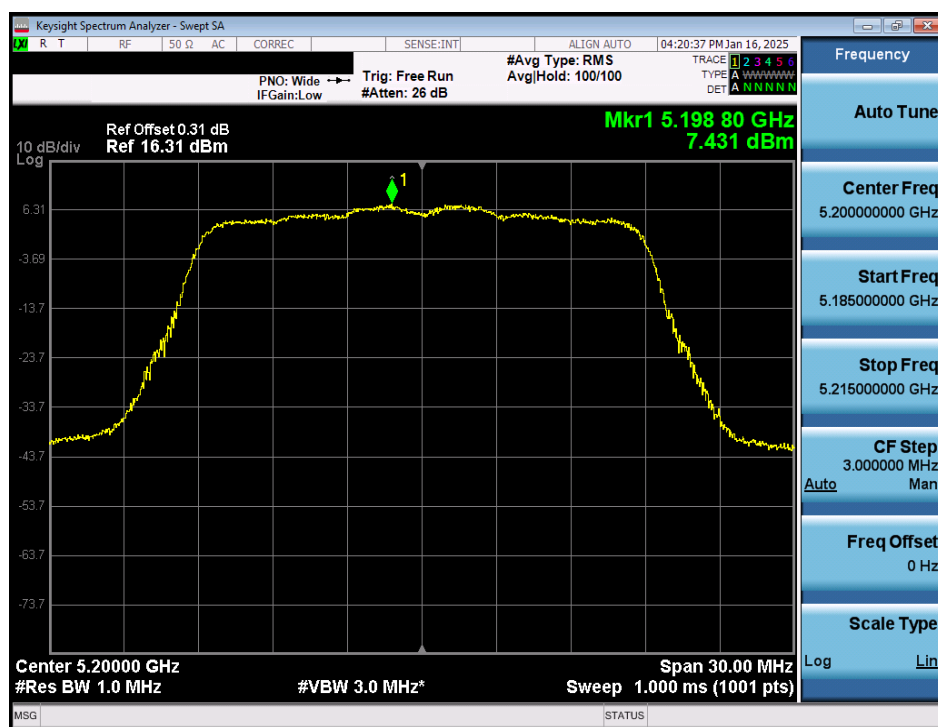
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 106 of 272

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Plot 7-55. PSD CDD Primary Antenna WF7a (20MHz BW 802.11n – Ch. 144)

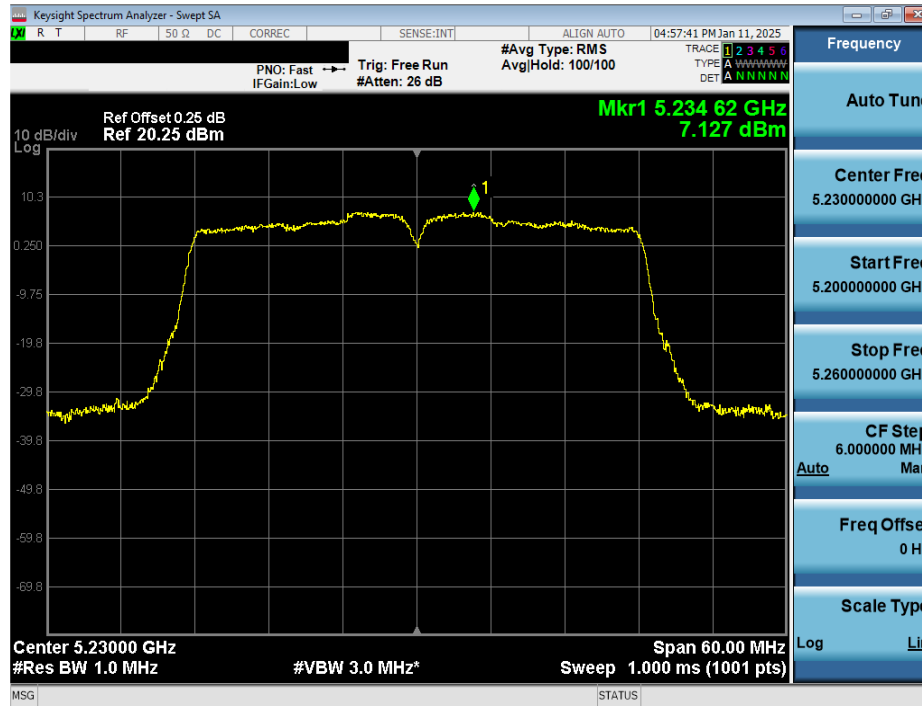


Plot 7-56. PSD CDD Primary Antenna WF2a (20MHz BW 802.11n – Ch. 144)

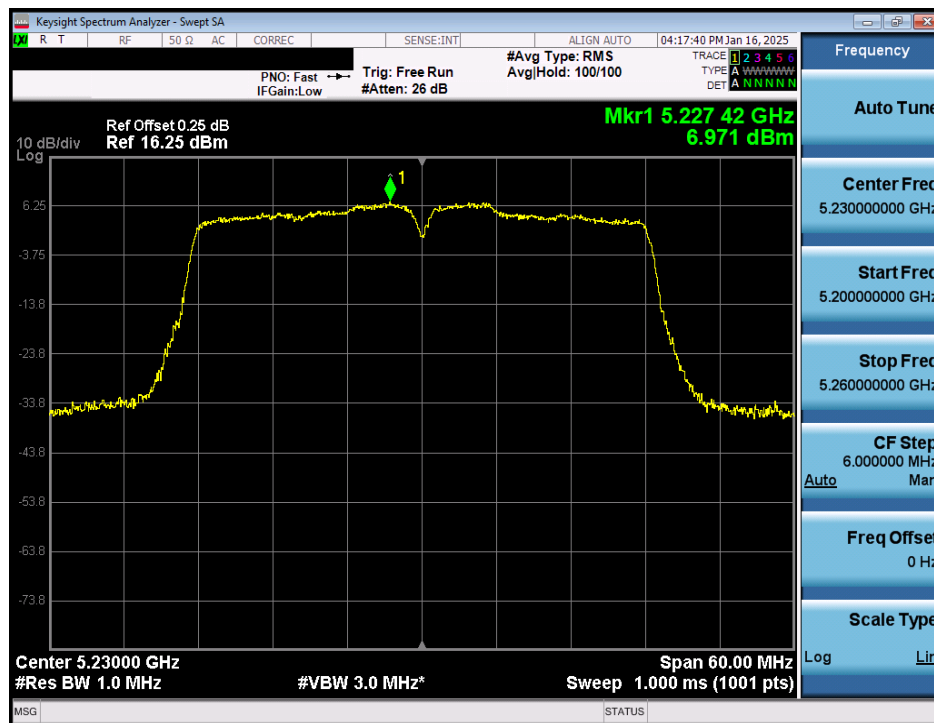
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 107 of 272

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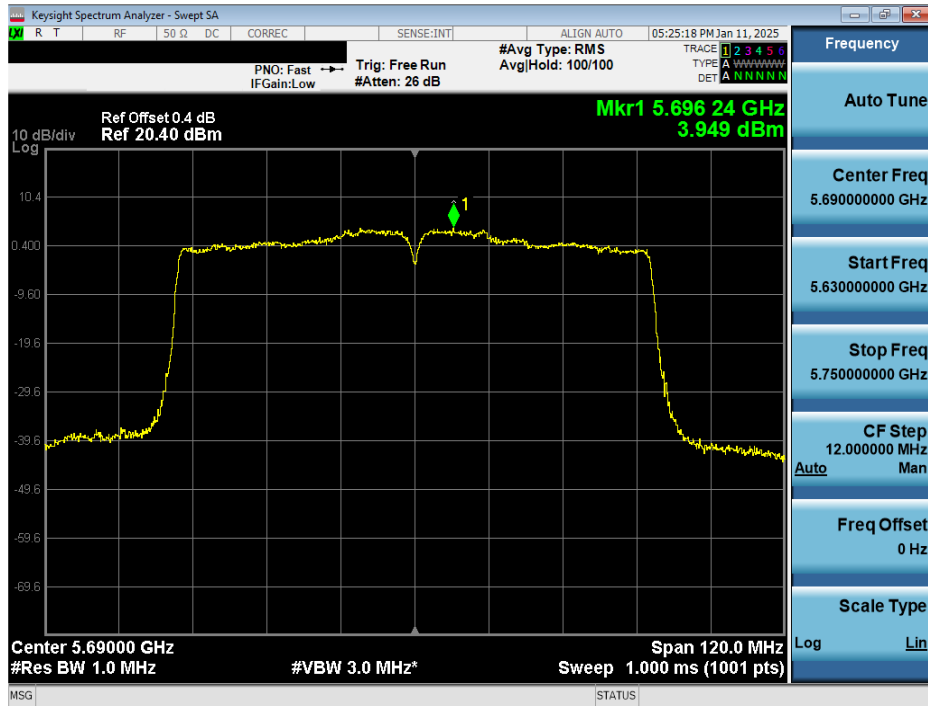


Plot 7-57. PSD CDD Primary Antenna WF7a (40MHz BW 802.11n – Ch. 142)

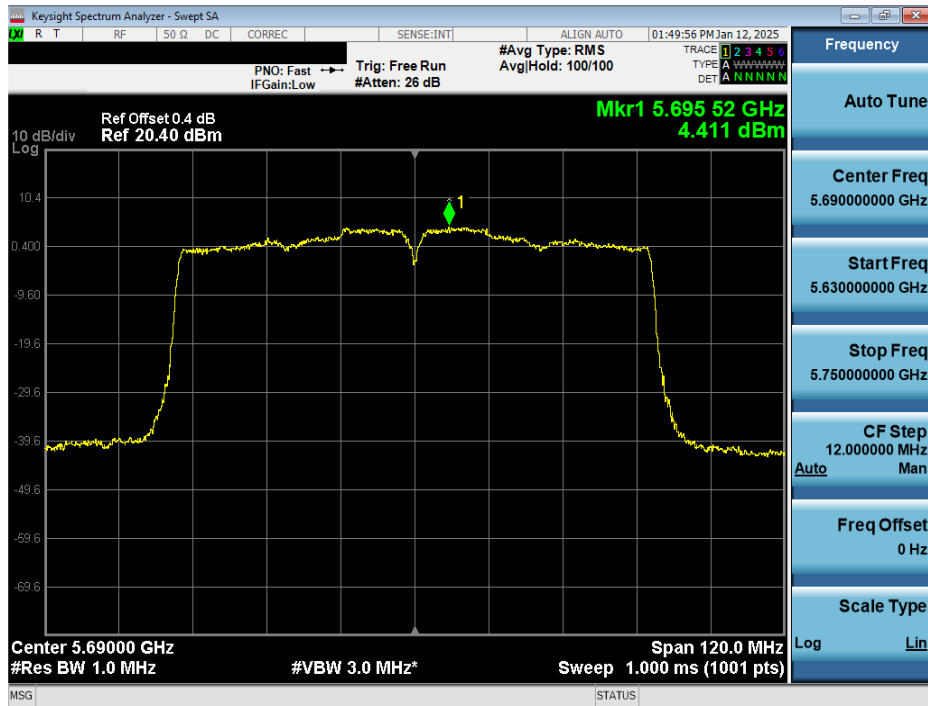


Plot 7-58. PSD CDD Primary Antenna WF2a (40MHz BW 802.11n – Ch. 142)

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 108 of 272

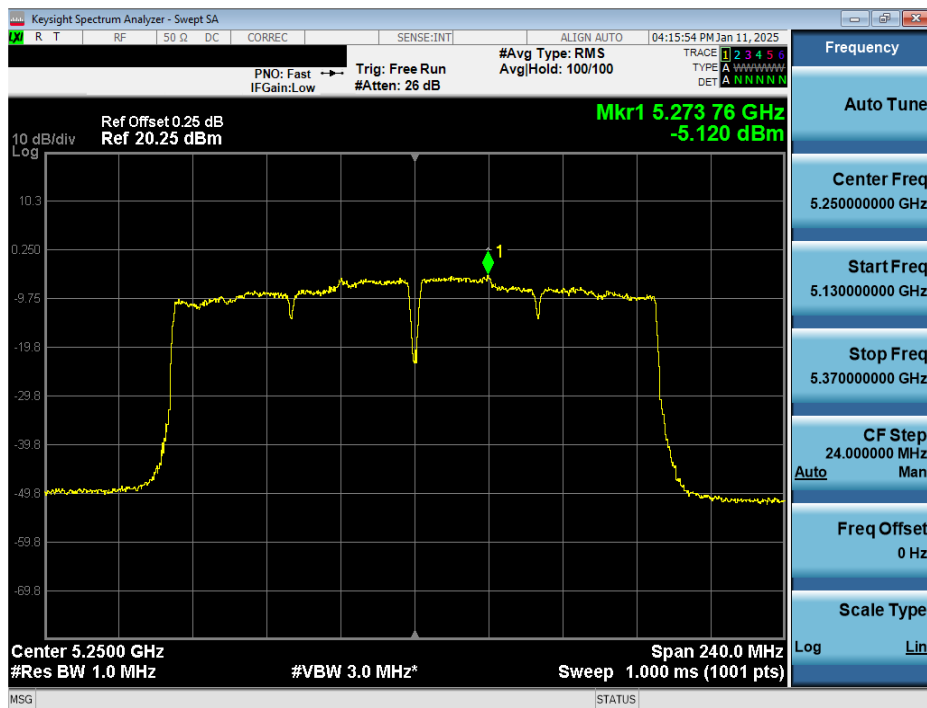


Plot 7-59. PSD CDD Primary Antenna WF7a (80MHz BW 802.11ac – Ch. 138)

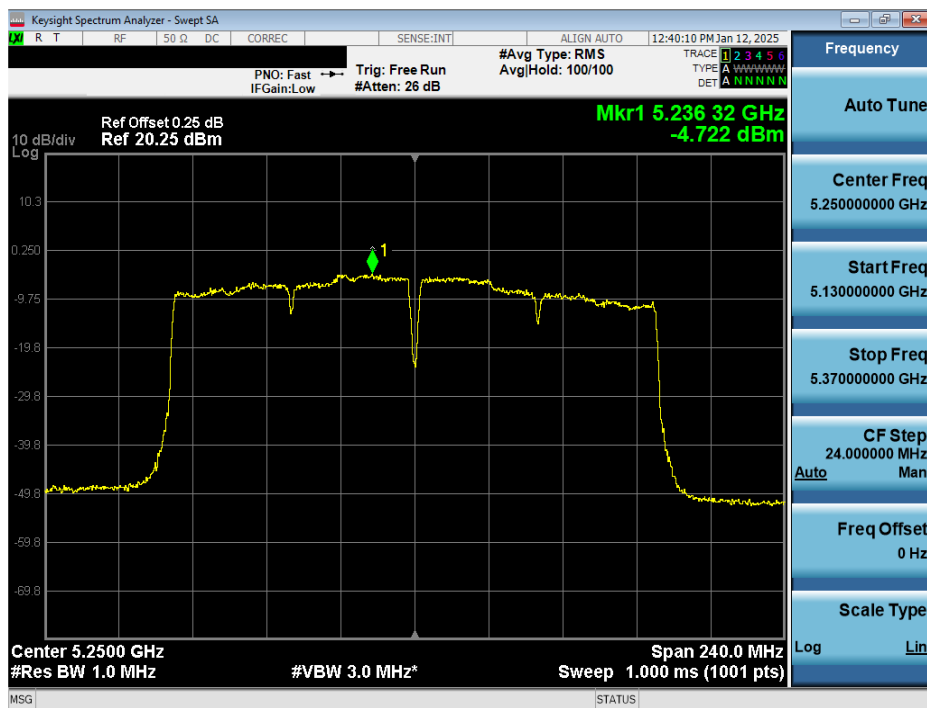


Plot 7-60. PSD CDD Primary Antenna WF2a (80MHz BW 802.11ac – Ch. 138)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 109 of 272



Plot 7-61. PSD CDD Primary Antenna WF7a (160MHz BW 802.11ac – Ch. 50)



Plot 7-62. PSD CDD Primary Antenna WF2a (160MHz BW 802.11ac – Ch. 50)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 110 of 272

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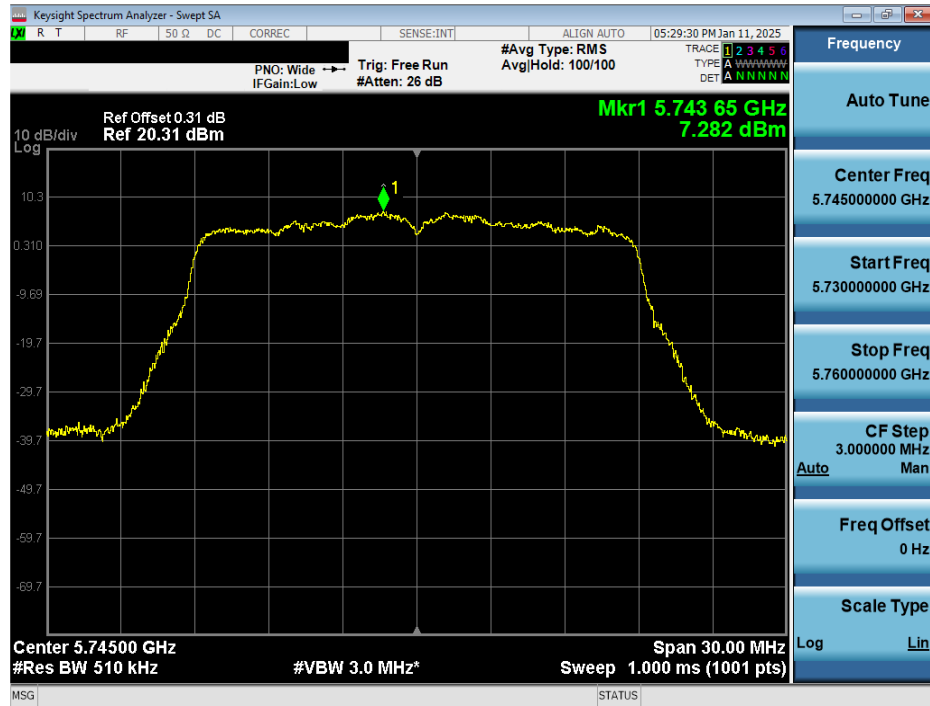
	Frequency [MHz]	Channel	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF7a Power Density [dBm/500kHz]	Antenna WF2a Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	CDD	78/86.7 (MCS12)	7.28	7.18	10.24	30.0	-19.76
	5785	157	n (20MHz)	CDD	78/86.7 (MCS12)	6.76	6.94	9.87	30.0	-20.13
	5825	165	n (20MHz)	CDD	39/43.3 (MCS10)	6.68	7.12	9.91	30.0	-20.09
	5745	149	ax (SU) (20MHz)	CDD	270/286.8 (MCS11)	6.16	5.88	9.03	30.0	-20.97
	5785	157	ax (SU) (20MHz)	CDD	270/286.8 (MCS11)	5.32	5.47	8.41	30.0	-21.59
	5825	165	ax (SU) (20MHz)	CDD	270/286.8 (MCS11)	5.49	5.69	8.60	30.0	-21.40
	5755	151	n (40MHz)	CDD	162/180 (MCS12)	4.59	5.36	8.00	30.0	-22.00
	5795	159	n (40MHz)	CDD	162/180 (MCS12)	3.98	4.54	7.28	30.0	-22.72
	5755	151	ax (SU) (40MHz)	CDD	271/286.8 (MCS11)	3.69	3.86	6.79	30.0	-23.21
	5795	159	ax (SU) (40MHz)	CDD	271/286.8 (MCS11)	3.09	3.45	6.28	30.0	-23.72
	5775	155	ac (80MHz)	CDD	175.5/195 (MCS2)	-0.29	0.38	3.07	30.0	-26.93
	5775	155	ax (SU) (80MHz)	CDD	204/216.2 (MCS2)	-2.33	-1.50	1.12	30.0	-28.88

Table 7-108. Band 3 Power Spectral Density Measurements CDD Primary

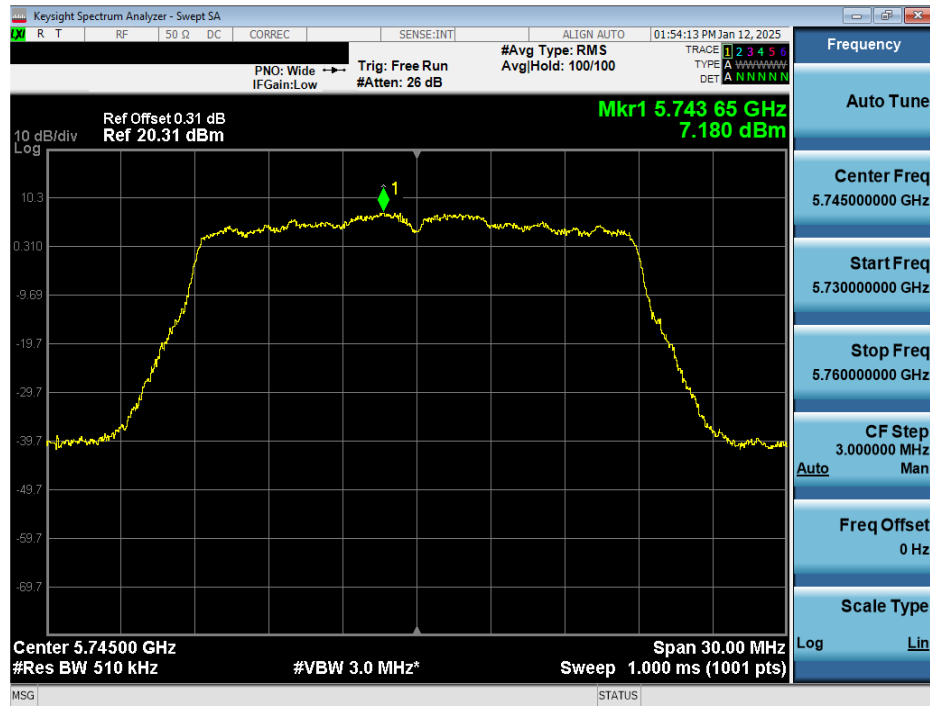
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 111 of 272

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Plot 7-63. PSD CDD Primary Antenna WF7a (20MHz BW 802.11n – Ch. 149)

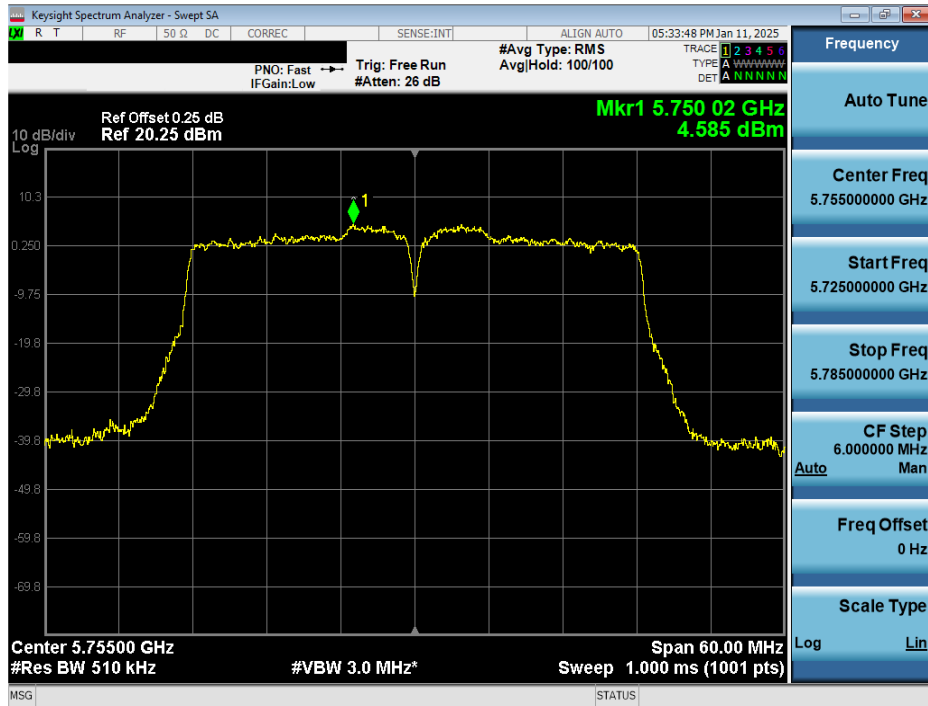


Plot 7-64. PSD CDD Primary Antenna WF2a (20MHz BW 802.11n – Ch. 149)

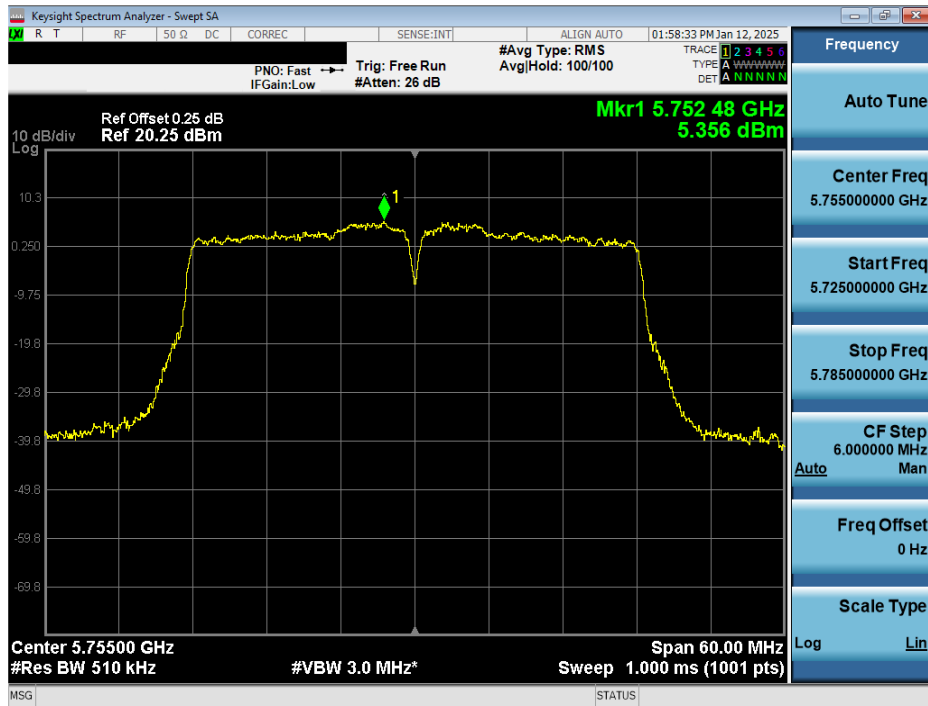
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 112 of 272

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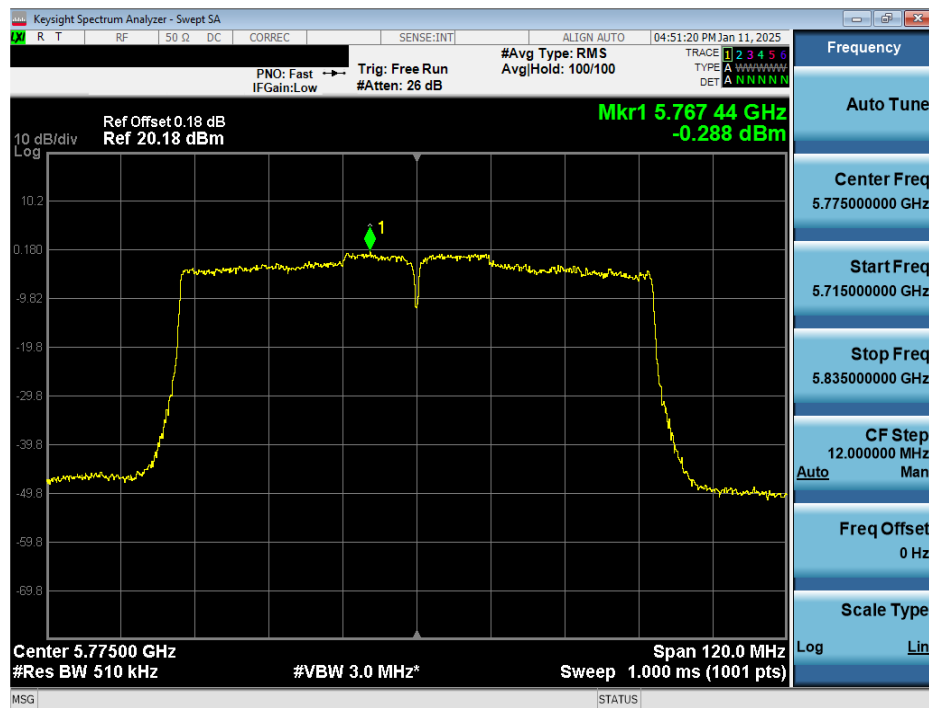


Plot 7-65. PSD CDD Primary Antenna WF7a (40MHz BW 802.11n – Ch. 151)

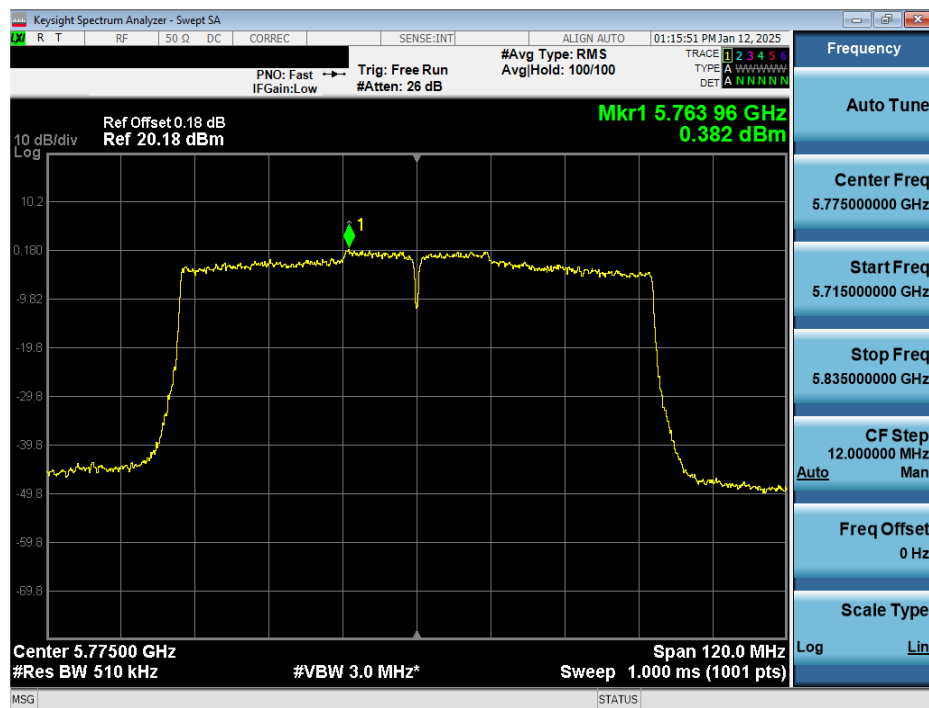


Plot 7-66. PSD CDD Primary Antenna WF2a (40MHz BW 802.11n – Ch. 151)

FCC ID: BCGA3268 IC: 579C-A3268		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 113 of 272



Plot 7-67. PSD CDD Primary Antenna WF7a (80MHz BW 802.11ac – Ch. 155)



Plot 7-68. PSD CDD Primary Antenna WF2a (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 114 of 272

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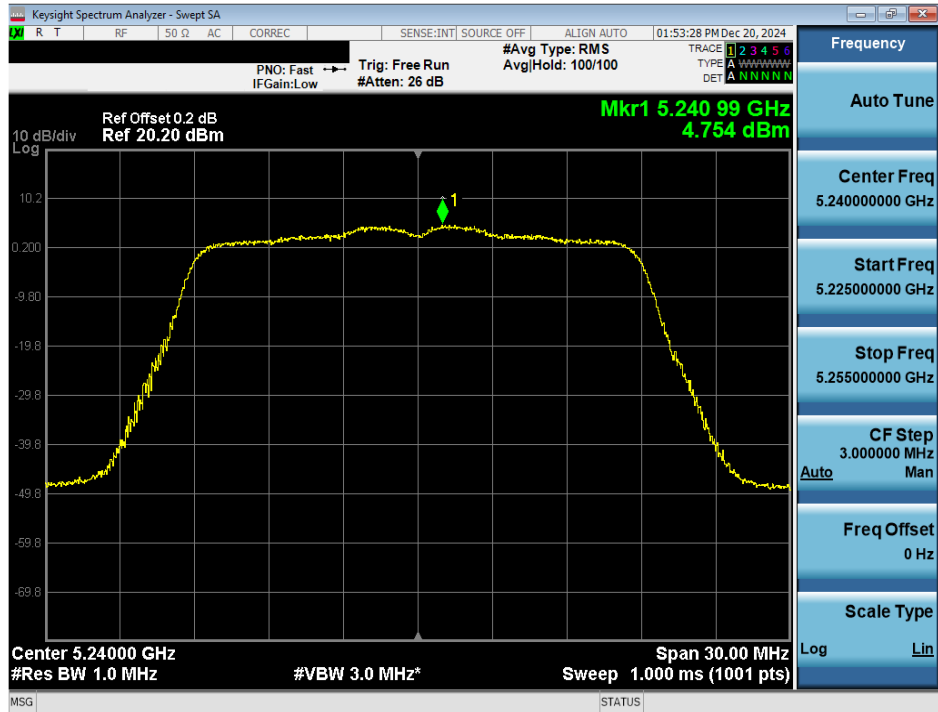
	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF7a Power Density [dBm/MHz]	Antenna WF2a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directioinal Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	SDM	78/86.7 (MCS12)	4.71	5.03	7.88	0.80	8.68	10.0	-1.32
	5200	40	n (20MHz)	SDM	39/43.3 (MCS10)	4.90	4.76	7.84	0.80	8.64	10.0	-1.36
	5240	48	n (20MHz)	SDM	39/43.3 (MCS10)	4.75	5.37	8.08	0.80	8.89	10.0	-1.11
	5180	36	ax (SU) (20MHz)	SDM	98/103.2 (MCS4)	4.60	4.33	7.47	0.80	8.28	10.0	-1.72
	5200	40	ax (SU) (20MHz)	SDM	270/286.8 (MCS11)	4.29	4.79	7.56	0.80	8.36	10.0	-1.64
	5240	48	ax (SU) (20MHz)	SDM	270/286.8 (MCS11)	4.33	4.97	7.67	0.80	8.47	10.0	-1.53
	5190	38	n (40MHz)	SDM	81/60 (MCS10)	1.57	1.53	4.56	0.80	5.36	10.0	-4.64
	5230	46	n (40MHz)	SDM	81/60 (MCS10)	4.35	4.49	7.43	0.80	8.23	10.0	-1.77
	5190	38	ax (SU) (40MHz)	CDD	271/286.8 (MCS11)	-0.72	-0.92	2.19	3.81	6.00	10.0	-4.00
	5230	46	ax (SU) (40MHz)	SDM	271/286.8 (MCS11)	3.68	3.81	6.75	0.80	7.56	10.0	-2.44
	5210	42	ac (80MHz)	CDD	175.5/195 (MCS2)	-2.18	-2.08	0.88	3.81	4.69	10.0	-5.31
	5210	42	ax (SU) (80MHz)	CDD	204/216.2 (MCS2)	-3.20	-3.00	-0.09	3.81	3.72	10.0	-6.28
Band 1/2	5250	50	ac (160MHz)	CDD	175.5/195 (MCS2)	-5.51	-5.27	-2.37	3.81	1.44	10.0	-8.56
	5250	50	ax (SU) (160MHz)	CDD	204/216.2 (MCS2)	-6.50	-6.25	-3.37	3.81	0.44	10.0	-9.56

Table 7-109. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM Primary

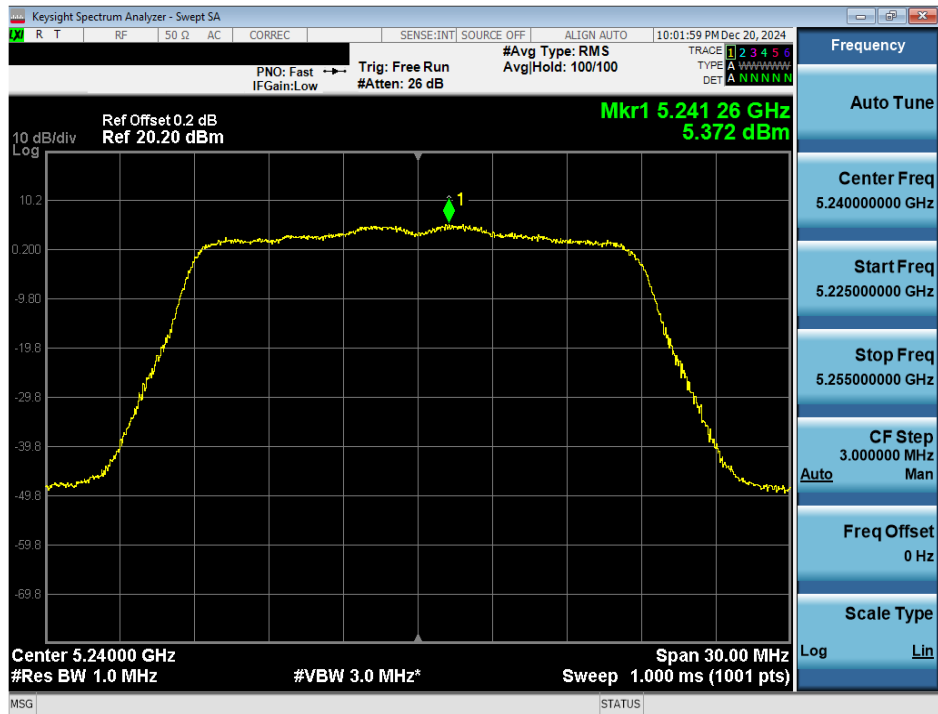
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 115 of 272

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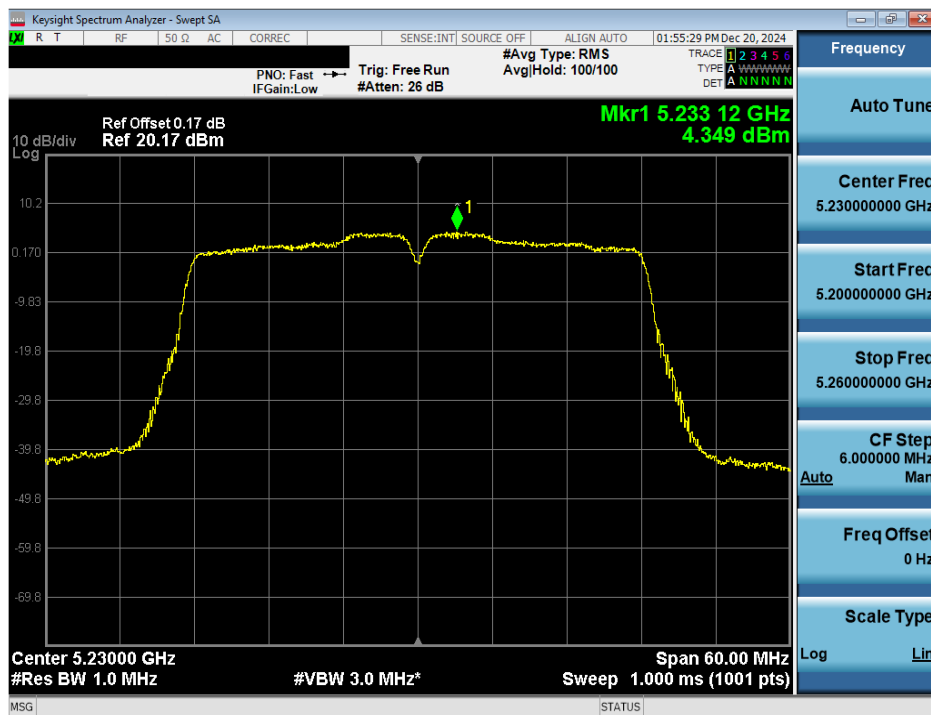


Plot 7-69. ISED PSD SDM Primary Antenna WF7a (20MHz BW 11n – Ch.48)

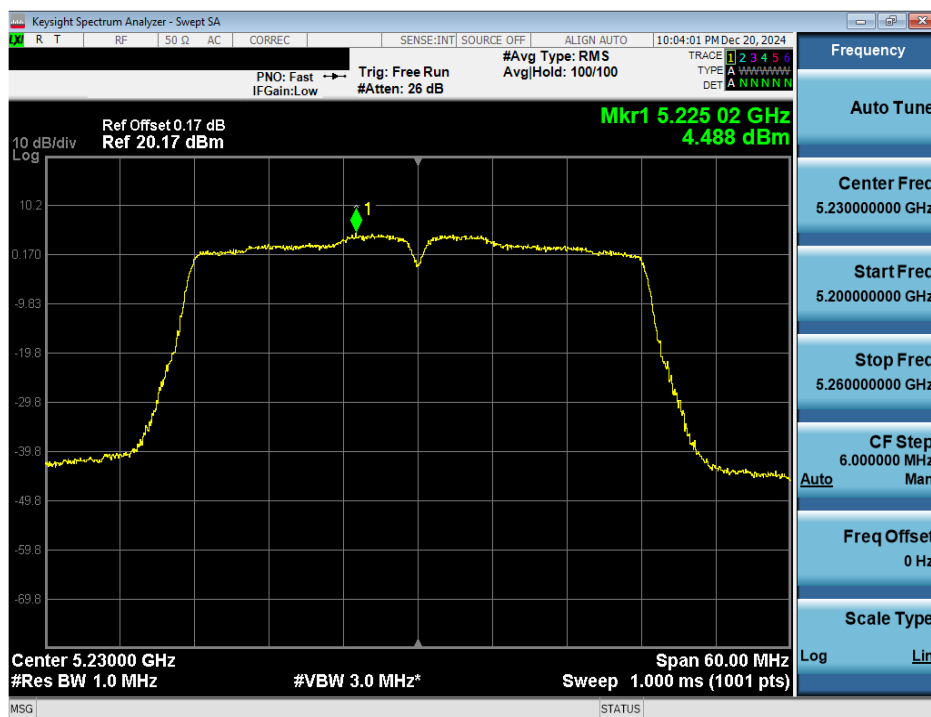


Plot 7-70. ISED PSD SDM Primary Antenna WF2a (20MHz BW 11n – Ch.48)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 116 of 272



Plot 7-71. ISED PSD SDM Primary Antenna WF7a (40MHz BW 11n – Ch.46)

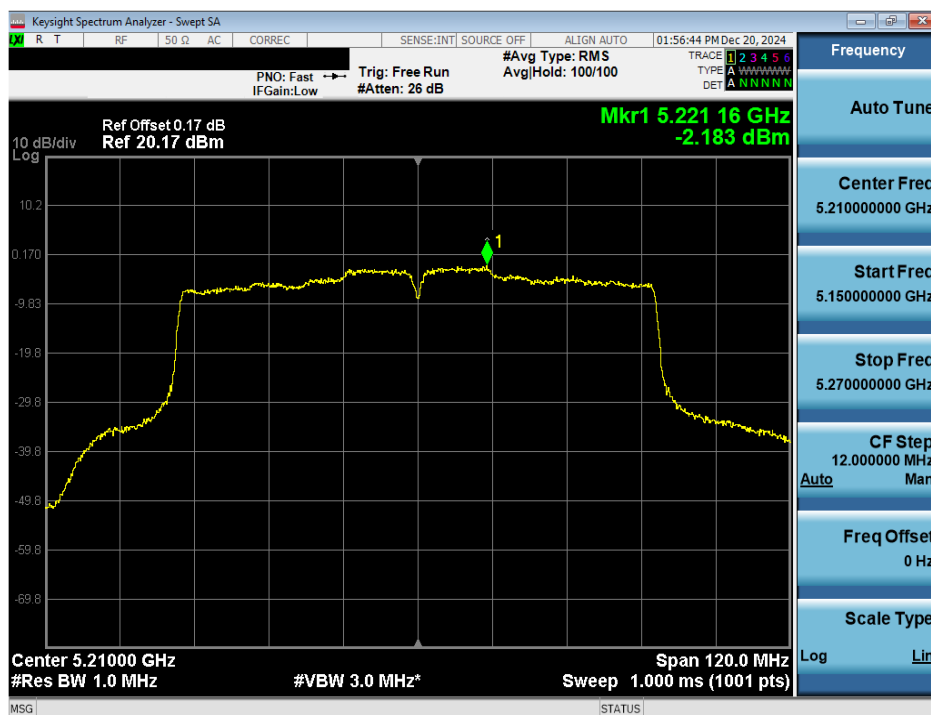


Plot 7-72. ISED PSD SDM Primary Antenna WF2a (40MHz BW 11n – Ch.46)

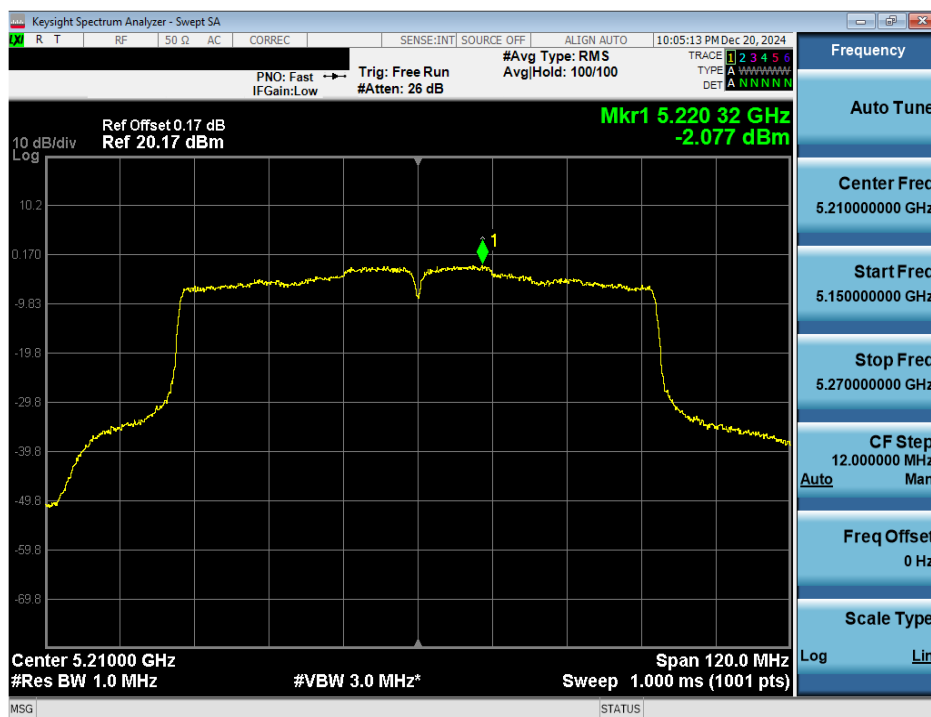
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 117 of 272

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Plot 7-73. ISED PSD SDM Primary Antenna WF7a (80MHz BW 11ac – Ch.42)

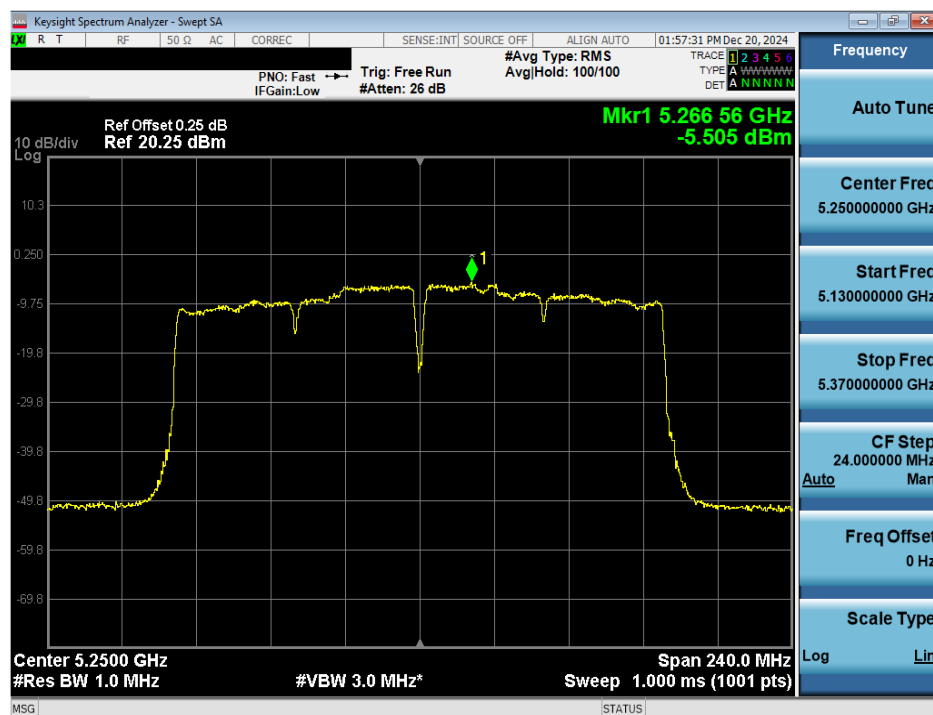


Plot 7-74. ISED PSD SDM Primary Antenna WF2a (80MHz BW 11ac – Ch.42)

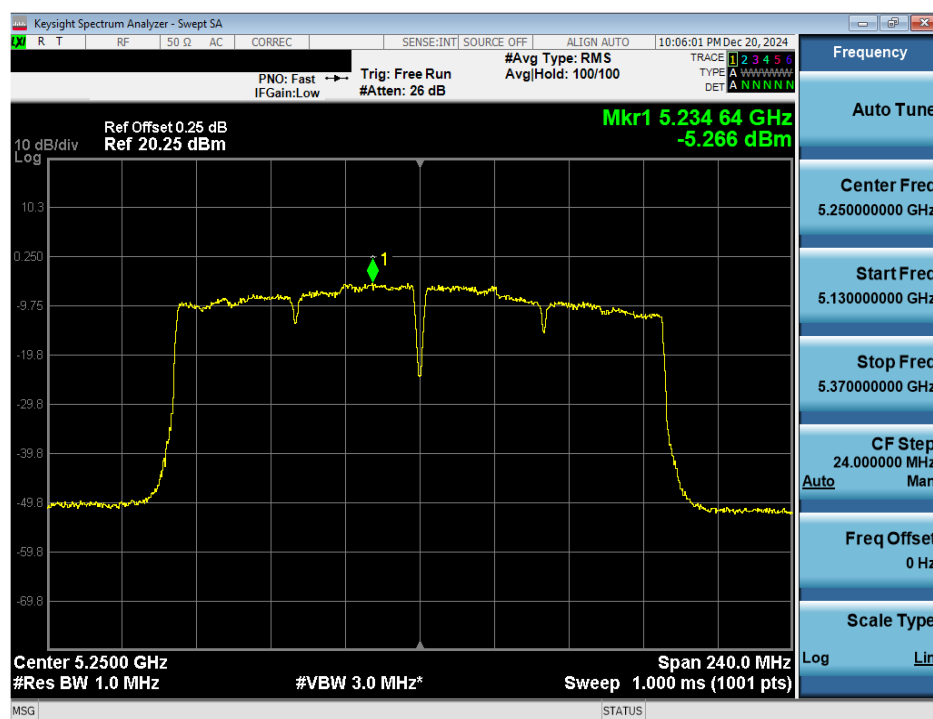
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 118 of 272

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Plot 7-75. ISED PSD SDM Primary Antenna WF7a (160MHz BW 11ac – Ch.50)



Plot 7-76. ISED PSD SDM Primary Antenna WF2a (160MHz BW 11ac – Ch.40)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 119 of 272

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7.5.5 Summed CDD/SDM Diversity Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Mode	Antenna WF2a Power Density [dBm/MHz]	Antenna WF7b Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	78/86.7 (MCS12)	CDD	7.38	7.59	10.49	11.00	-0.51
	5200	40	n (20MHz)	78/86.7 (MCS12)	CDD	7.43	7.48	10.47	11.00	-0.53
	5240	48	n (20MHz)	78/86.7 (MCS12)	CDD	7.46	7.21	10.35	11.00	-0.65
	5180	36	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	6.22	5.89	9.07	11.00	-1.93
	5200	40	ax (SU) (20MHz)	98/103.2 (MCS4)	CDD	7.02	7.06	10.05	11.00	-0.95
	5240	48	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	7.10	6.77	9.95	11.00	-1.05
	5190	38	n (40MHz)	81/60 (MCS10)	CDD	2.54	3.15	5.86	11.00	-5.14
	5230	46	n (40MHz)	81/60 (MCS10)	CDD	7.23	7.57	10.42	11.00	-0.58
	5190	38	ax (SU) (40MHz)	98/103.2 (MCS2)	CDD	0.46	0.95	3.72	11.00	-7.28
	5230	46	ax (SU) (40MHz)	196/206.5 (MCS4)	CDD	6.22	6.62	9.43	11.00	-1.57
	5210	42	ac (80MHz)	175.5/195 (MCS2)	CDD	-0.80	-1.01	2.10	11.00	-8.90
	5210	42	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	-2.21	-2.03	0.89	11.00	-10.11
Band 1/2	5250	50	ac (160MHz)	175.5/195 (MCS2)	CDD	-4.72	-5.10	-1.90	11.00	-12.90
	5250	50	ax (SU) (160MHz)	204/216.2 (MCS2)	CDD	-5.34	-6.01	-2.65	11.00	-13.65
Band 2A	5260	52	n (20MHz)	78/86.7 (MCS12)	CDD	7.43	7.23	10.34	11.00	-0.66
	5300	60	n (20MHz)	78/86.7 (MCS12)	CDD	7.53	6.95	10.26	11.00	-0.74
	5320	64	n (20MHz)	39/43.3 (MCS10)	CDD	6.69	7.44	10.09	11.00	-0.91
	5260	52	ax (SU) (20MHz)	270/286.8 (MCS11)	CDD	6.91	6.27	9.61	11.00	-1.39
	5300	60	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	6.50	6.78	9.65	11.00	-1.35
	5320	64	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	6.53	6.47	9.51	11.00	-1.49
	5270	54	n (40MHz)	81/60 (MCS10)	CDD	7.16	7.30	10.24	11.00	-0.76
	5310	62	n (40MHz)	81/60 (MCS10)	CDD	3.89	4.08	6.99	11.00	-4.01
	5270	54	ax (SU) (40MHz)	271/286.8 (MCS11)	CDD	6.55	5.90	9.24	11.00	-1.76
	5310	62	ax (SU) (40MHz)	98/103.2 (MCS2)	CDD	2.10	2.45	5.29	11.00	-5.71
	5290	58	ac (80MHz)	175.5/195 (MCS2)	CDD	1.25	1.19	4.23	11.00	-6.77
	5290	58	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	-0.46	-0.98	2.30	11.00	-8.70
Band 2C	5500	100	n (20MHz)	78/86.7 (MCS12)	CDD	7.34	6.97	10.17	11.00	-0.83
	5580	116	n (20MHz)	78/86.7 (MCS12)	CDD	7.23	6.98	10.12	11.00	-0.88
	5700	140	n (20MHz)	39/43.3 (MCS10)	CDD	7.11	7.40	10.27	11.00	-0.73
	5720	144	n (20MHz)	78/86.7 (MCS12)	CDD	7.57	7.07	10.34	11.00	-0.66
	5500	100	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	5.79	5.54	8.67	11.00	-2.33
	5580	116	ax (SU) (20MHz)	98/103.2 (MCS4)	CDD	6.57	6.81	9.70	11.00	-1.30
	5700	140	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	5.72	5.77	8.75	11.00	-2.25
	5720	144	ax (SU) (20MHz)	48/51.6 (MCS2)	CDD	6.76	6.84	9.81	11.00	-1.19
	5510	102	n (40MHz)	81/60 (MCS10)	CDD	3.63	3.63	6.64	11.00	-4.36
	5550	110	n (40MHz)	81/60 (MCS10)	CDD	7.34	7.33	10.35	11.00	-0.65
	5670	134	n (40MHz)	81/60 (MCS10)	CDD	6.80	6.56	9.69	11.00	-1.31
	5710	142	n (40MHz)	81/60 (MCS10)	CDD	6.99	7.64	10.34	11.00	-0.66
	5510	102	ax (SU) (40MHz)	98/103.2 (MCS2)	CDD	1.38	2.00	4.71	11.00	-6.29
	5550	110	ax (SU) (40MHz)	271/286.8 (MCS11)	CDD	6.11	5.98	9.05	11.00	-1.95
	5670	134	ax (SU) (40MHz)	98/103.2 (MCS2)	CDD	5.02	4.69	7.87	11.00	-3.13
	5710	142	ax (SU) (40MHz)	271/286.8 (MCS11)	CDD	6.19	5.82	9.02	11.00	-1.98
	5530	106	ac (80MHz)	175.5/195 (MCS2)	CDD	-0.70	-0.63	2.35	11.00	-8.65
	5610	122	ac (80MHz)	175.5/195 (MCS2)	CDD	3.71	4.35	7.05	11.00	-3.95
	5690	138	ac (80MHz)	175.5/195 (MCS2)	CDD	4.46	4.27	7.37	11.00	-3.63
	5530	106	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	-2.41	-2.20	0.71	11.00	-10.29
	5610	122	ax (SU) (80MHz)	204/216.2 (MCS2)	CDD	3.07	2.55	5.82	11.00	-5.18
	5690	138	ax (SU) (80MHz)	408/432.4 (MCS4)	CDD	3.46	2.66	6.09	11.00	-4.91
	5570	114	ac (160MHz)	175.5/195 (MCS2)	CDD	-4.65	-5.39	-1.99	11.00	-12.99
	5570	114	ax (SU) (160MHz)	204/216.2 (MCS2)	CDD	-6.70	-6.67	-3.67	11.00	-14.67

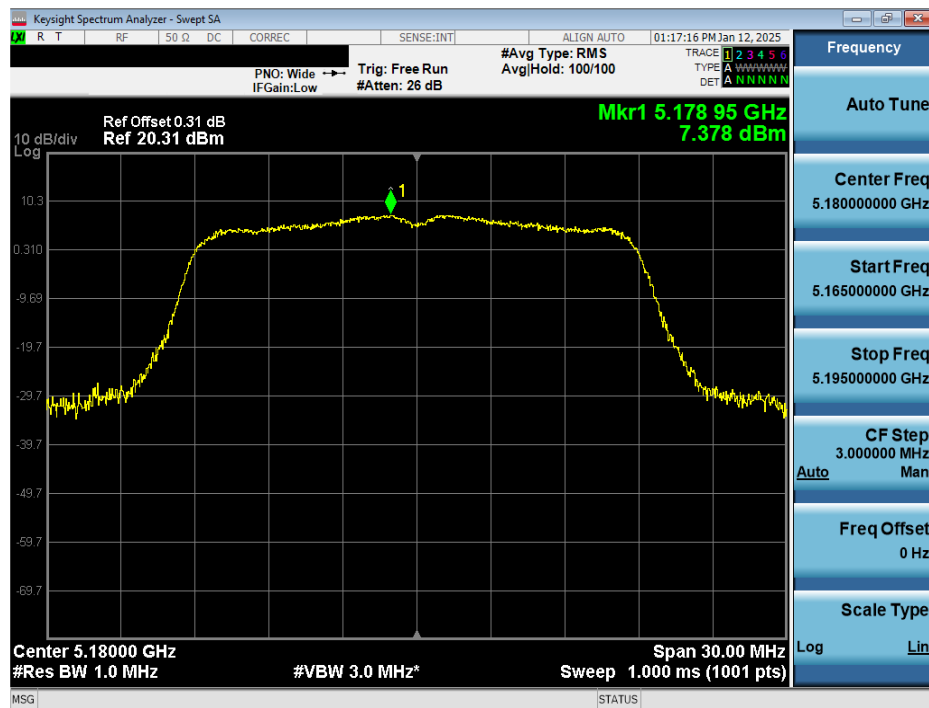
Table 7-110. Bands 1, 2A, 2C CDD Diversity Power Spectral Density Measurements

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

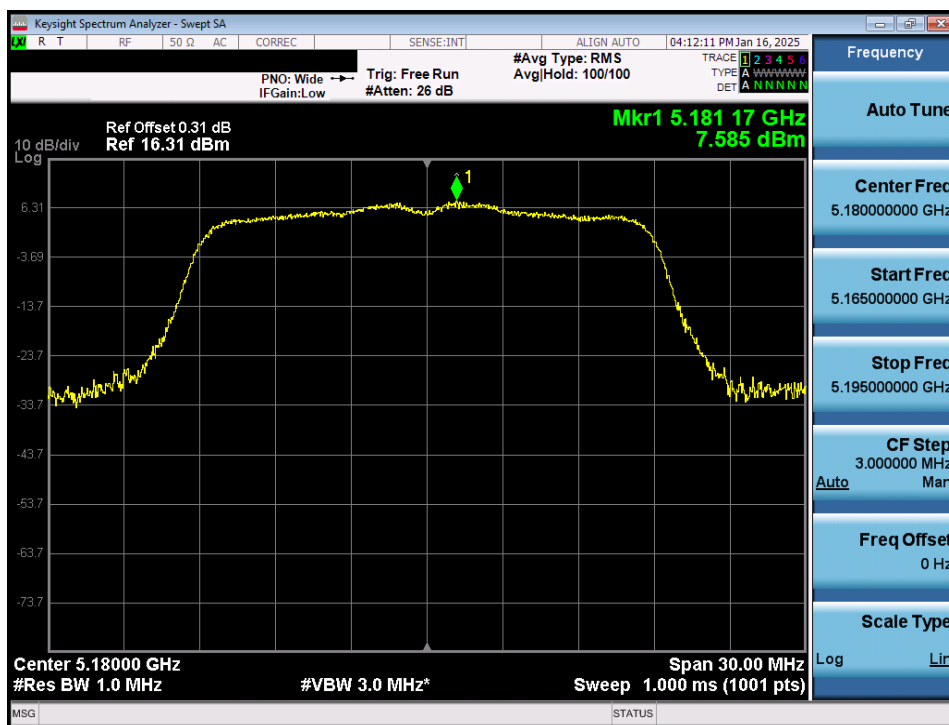
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 120 of 272

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Plot 7-77. PSD CDD Diversity Antenna WF2a (20MHz BW 802.11n – Ch. 36)

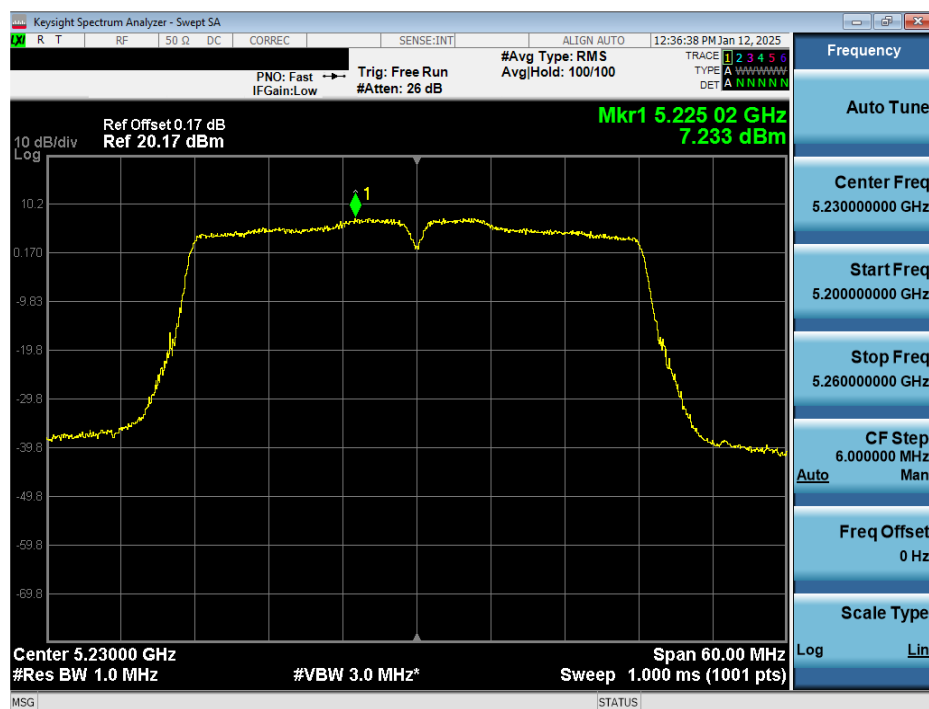


Plot 7-78. PSD CDD Diversity Antenna WF7b (20MHz BW 802.11n – Ch. 36)

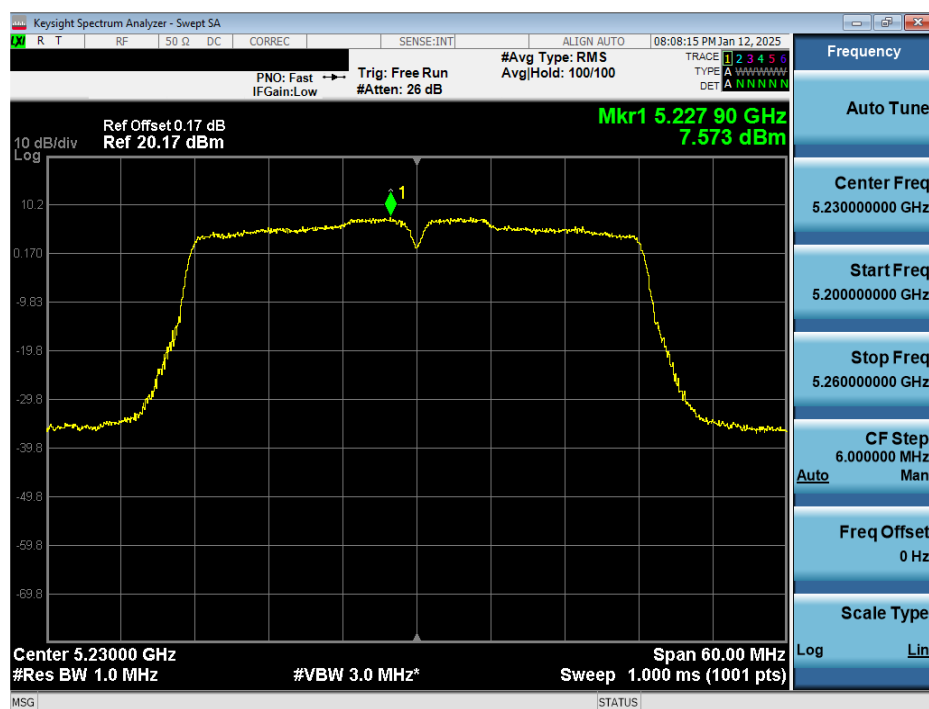
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 121 of 272

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Plot 7-79. PSD CDD Diversity Antenna WF2a (40MHz BW 802.11n – Ch. 46)

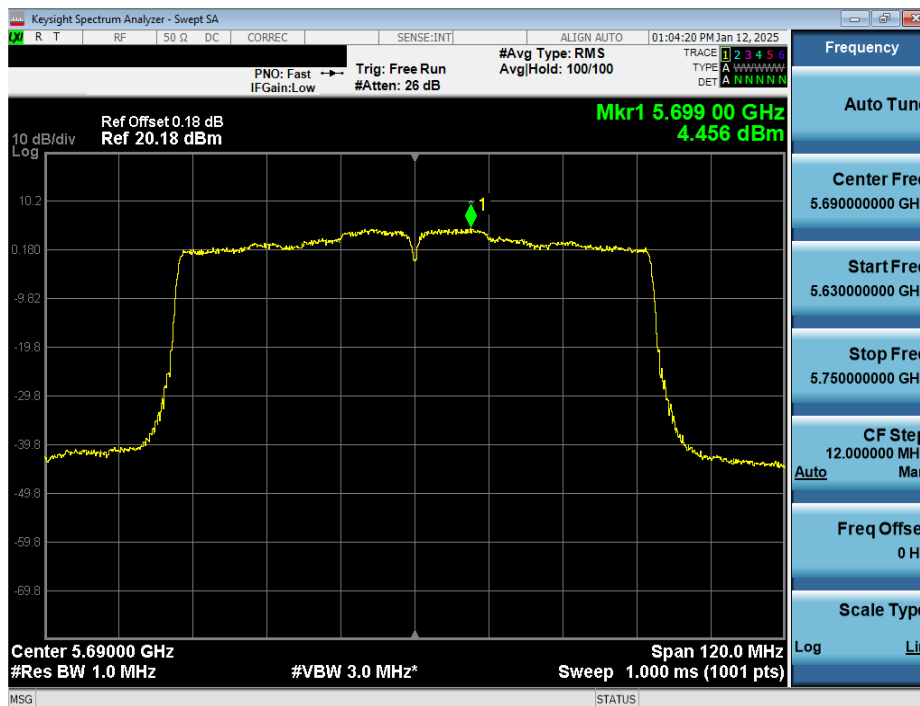


Plot 7-80. PSD CDD Diversity Antenna WF7b (40MHz BW 802.11n – Ch. 46)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 122 of 272

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Plot 7-81. PSD CDD Diversity Antenna WF2a (80MHz BW 802.11ax(SU) – Ch. 138)

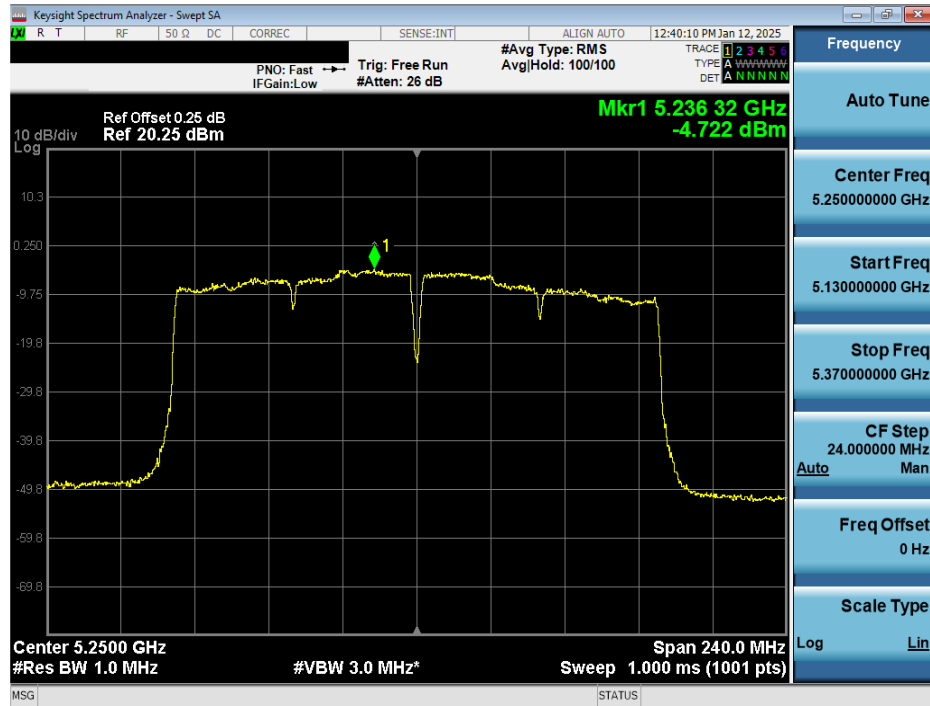


Plot 7-82. PSD CDD Diversity Antenna WF7b (80MHz BW 802.11ax(SU) – Ch. 138)

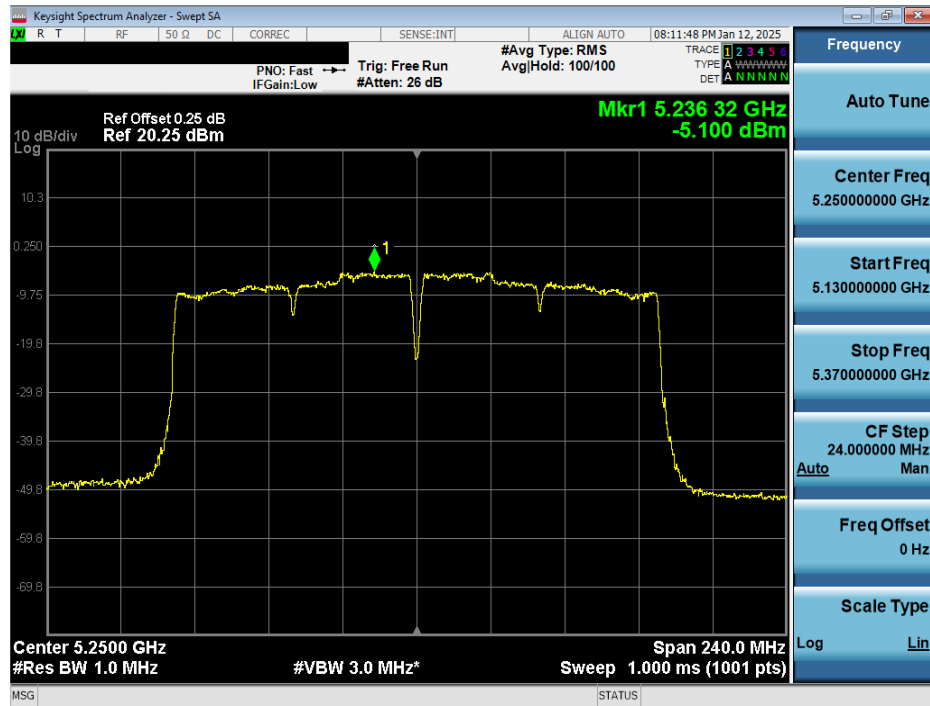
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 123 of 272

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Plot 7-83. PSD CDD Diversity Antenna WF2a (160MHz BW 802.11ac – Ch. 50)



Plot 7-84. PSD CDD Diversity Antenna WF2a (160MHz BW 802.11ac – Ch. 50)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 124 of 272

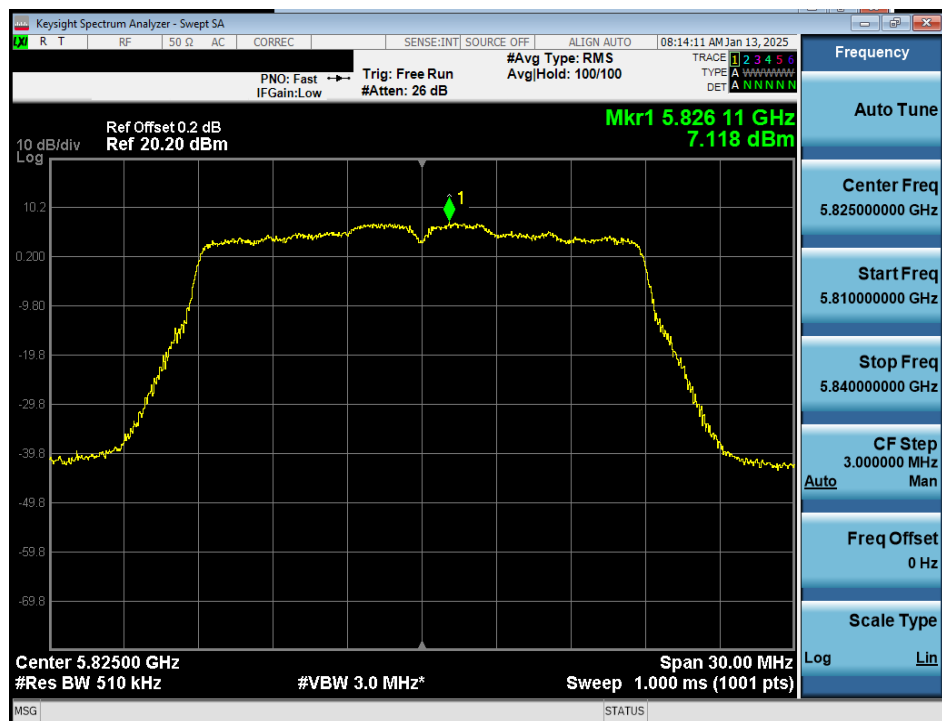
	Frequency [MHz]	Channel	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF2a Power Density [dBm/500kHz]	Antenna WF7b Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	CDD	78/86.7 (MCS12)	7.18	6.85	10.03	30.0	-19.97
	5785	157	n (20MHz)	CDD	78/86.7 (MCS12)	6.94	6.77	9.87	30.0	-20.13
	5825	165	n (20MHz)	CDD	39/43.3 (MCS10)	7.12	6.99	10.07	30.0	-19.93
	5745	149	ax (SU) (20MHz)	CDD	48/51.6 (MCS2)	5.91	6.17	9.05	30.0	-20.95
	5785	157	ax (SU) (20MHz)	CDD	48/51.6 (MCS2)	5.47	5.73	8.61	30.0	-21.39
	5825	165	ax (SU) (20MHz)	CDD	270/286.8 (MCS11)	5.69	5.81	8.76	30.0	-21.24
	5755	151	n (40MHz)	CDD	162/180 (MCS12)	5.36	4.54	7.98	30.0	-22.02
	5795	159	n (40MHz)	CDD	162/180 (MCS12)	4.54	4.50	7.53	30.0	-22.47
	5755	151	ax (SU) (40MHz)	CDD	98/103.2 (MCS2)	3.67	3.71	6.70	30.0	-23.30
	5795	159	ax (SU) (40MHz)	CDD	271/286.8 (MCS11)	3.45	2.94	6.21	30.0	-23.79
	5775	155	ac (80MHz)	CDD	175.5/195 (MCS2)	0.38	-0.36	3.04	30.0	-26.96
	5775	155	ax (SU) (80MHz)	CDD	204/216.2 (MCS2)	-1.50	-1.70	1.41	30.0	-28.59

Table 7-111. Band 3 Power Spectral Density Measurements CDD Diversity

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 125 of 272

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Plot 7-85. PSD CDD Diversity Antenna WF2a (20MHz BW 802.11n – Ch. 165)

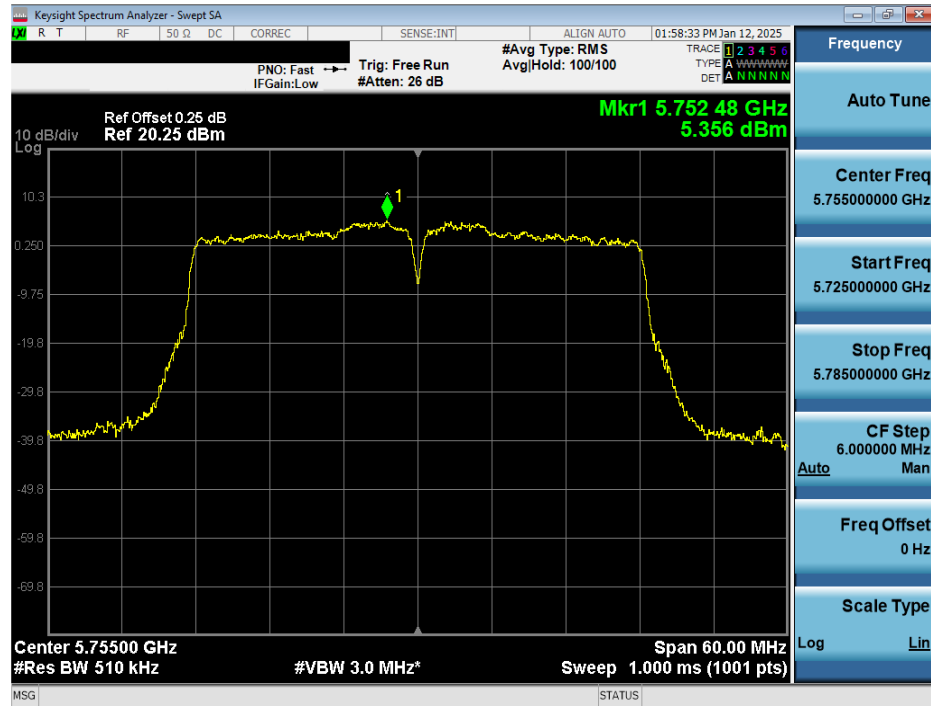


Plot 7-86. PSD CDD Diversity Antenna WF7b (20MHz BW 802.11n – Ch. 165)

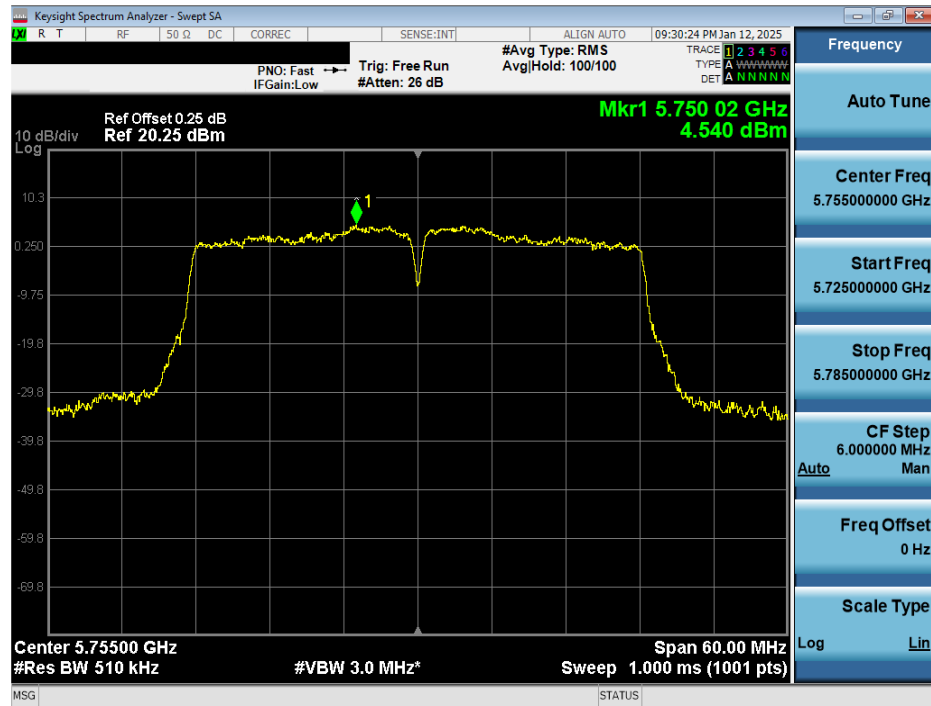
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 126 of 272

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Plot 7-87. PSD CDD Diversity Antenna WF2a (40MHz BW 802.11n – Ch. 159)

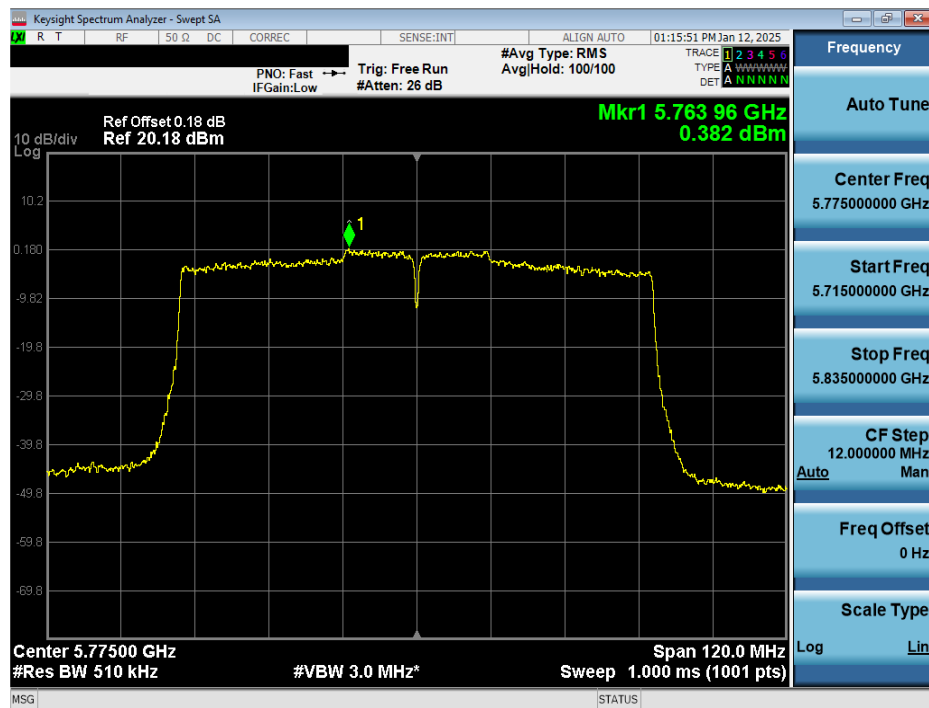


Plot 7-88. PSD CDD Diversity Antenna WF7b (40MHz BW 802.11n – Ch. 159)

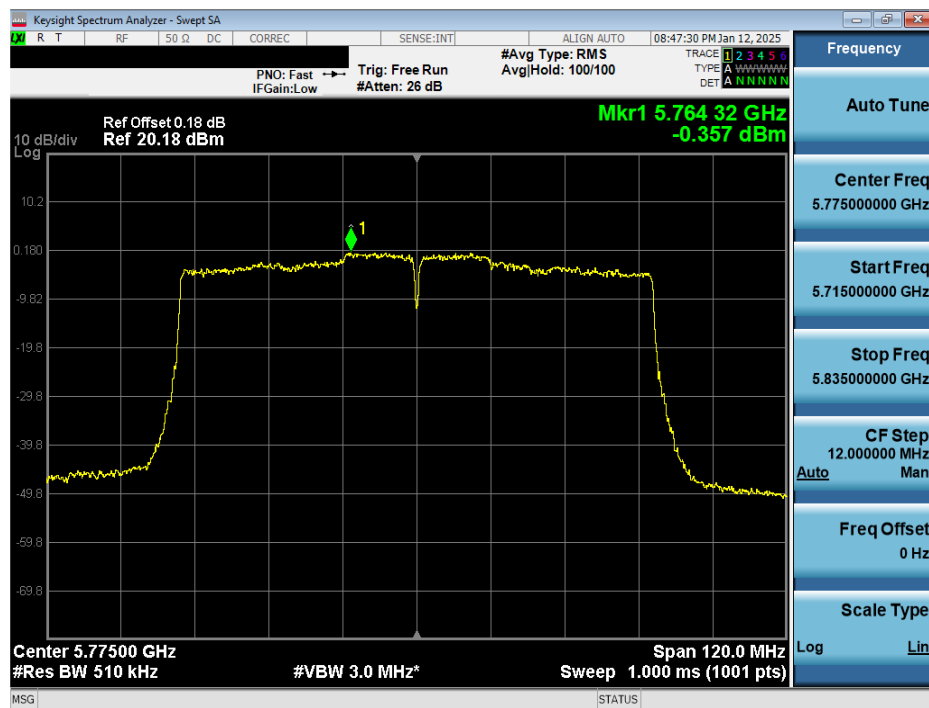
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 127 of 272

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Plot 7-89. PSD CDD Diversity Antenna WF2a (80MHz BW 802.11ac – Ch. 155)



Plot 7-90. PSD CDD Diversity Antenna WF7b (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 128 of 272

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	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF2a Power Density [dBm/MHz]	Antenna WF7b Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directioinal 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	n (20MHz)	SDM	78/86.7 (MCS12)	5.03	4.86	7.96	0.36	8.32	10.0	-1.68
	5200	40	n (20MHz)	SDM	78/86.7 (MCS12)	4.98	4.75	7.88	0.36	8.24	10.0	-1.76
	5240	48	n (20MHz)	SDM	78/86.7 (MCS12)	5.38	5.08	8.24	0.36	8.61	10.0	-1.39
	5180	36	ax (SU) (20MHz)	SDM	270/286.8 (MCS11)	4.35	4.60	7.49	0.36	7.85	10.0	-2.15
	5200	40	ax (SU) (20MHz)	SDM	270/286.8 (MCS11)	4.79	4.39	7.60	0.36	7.97	10.0	-2.03
	5240	48	ax (SU) (20MHz)	SDM	270/286.8 (MCS11)	4.97	4.67	7.83	0.36	8.19	10.0	-1.81
	5190	38	n (40MHz)	SDM	81/60 (MCS10)	1.53	1.80	4.68	0.36	5.04	10.0	-4.96
	5230	46	n (40MHz)	SDM	162/180 (MCS12)	4.29	4.33	7.32	0.36	7.68	10.0	-2.32
	5190	38	ax (SU) (40MHz)	SDM	271/286.8 (MCS11)	-0.92	-0.77	2.17	0.36	2.53	10.0	-7.47
	5230	46	ax (SU) (40MHz)	SDM	271/286.8 (MCS11)	3.81	3.70	6.76	0.36	7.13	10.0	-2.87
	5210	42	ac (80MHz)	SDM	175.5/195 (MCS2)	-2.08	-2.49	0.73	0.36	1.09	10.0	-8.91
	5210	42	ax (SU) (80MHz)	SDM	204/216.2 (MCS2)	-3.00	-3.70	-0.33	0.36	0.04	10.0	-9.96
Band 1/2	5250	50	ac (160MHz)	SDM	175.5/195 (MCS2)	-5.27	-5.61	-2.42	0.36	-2.06	10.0	-12.06
	5250	50	ax (SU) (160MHz)	SDM	204/216.2 (MCS2)	-6.25	-7.14	-3.66	0.36	-3.30	10.0	-13.30

Table 7-112. ISED Band 1 e.i.r.p. Power Spectral Density Measurements SDM Diversity

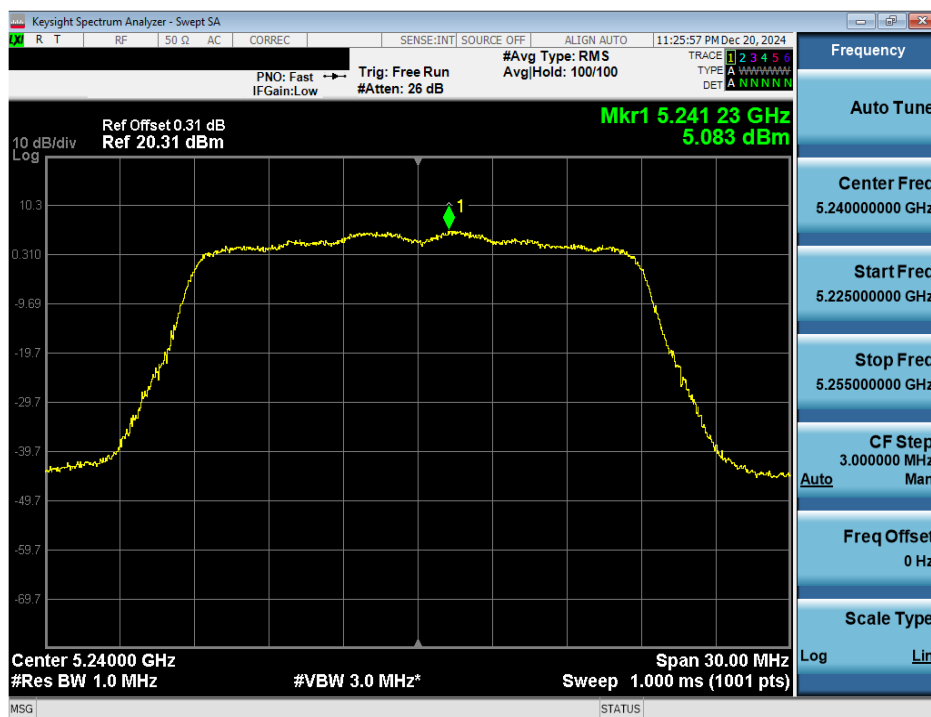
FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 129 of 272

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Plot 7-91. ISED PSD SDM Diversity Antenna WF2a (20MHz BW 11n – Ch.48)

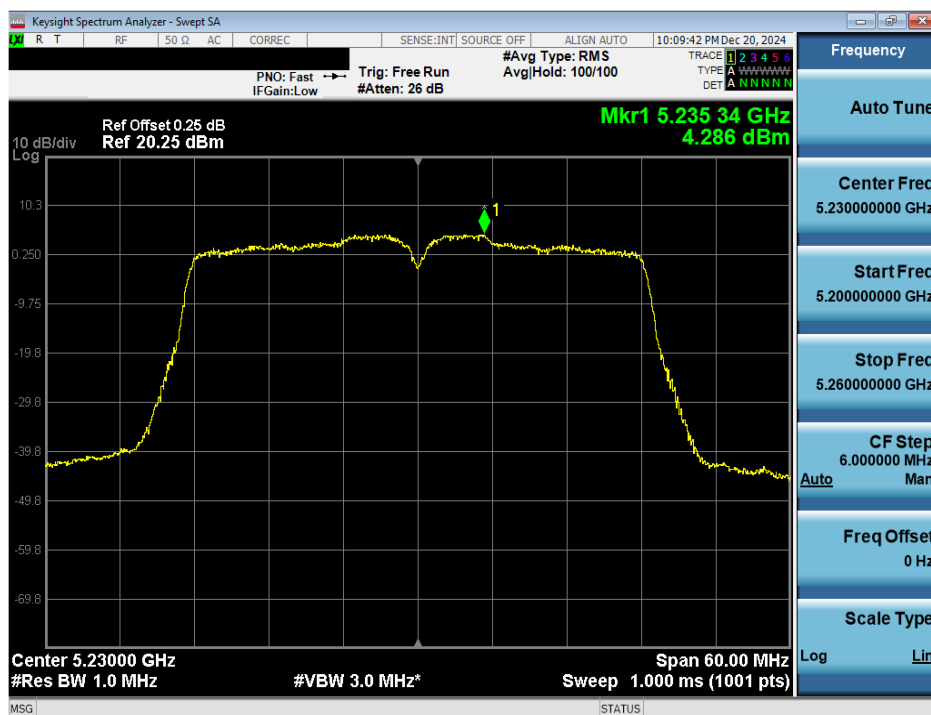


Plot 7-92. ISED PSD SDM Diversity Antenna WF7b (20MHz BW 11n – Ch.48)

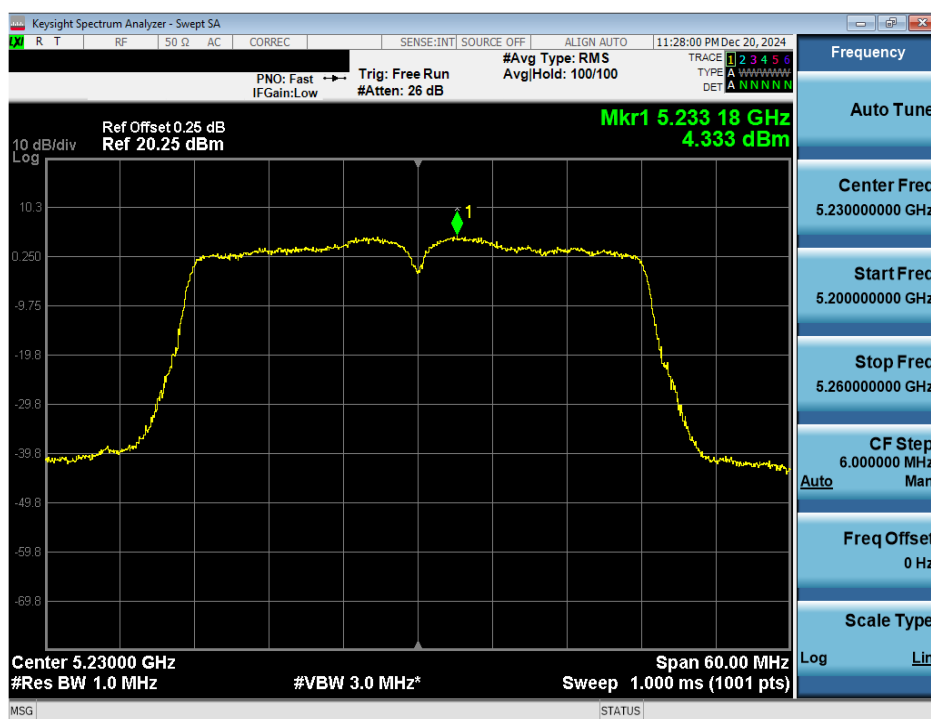
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 130 of 272

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Plot 7-93. ISED PSD SDM Diversity Antenna WF2a (40MHz BW 11n – Ch.46)

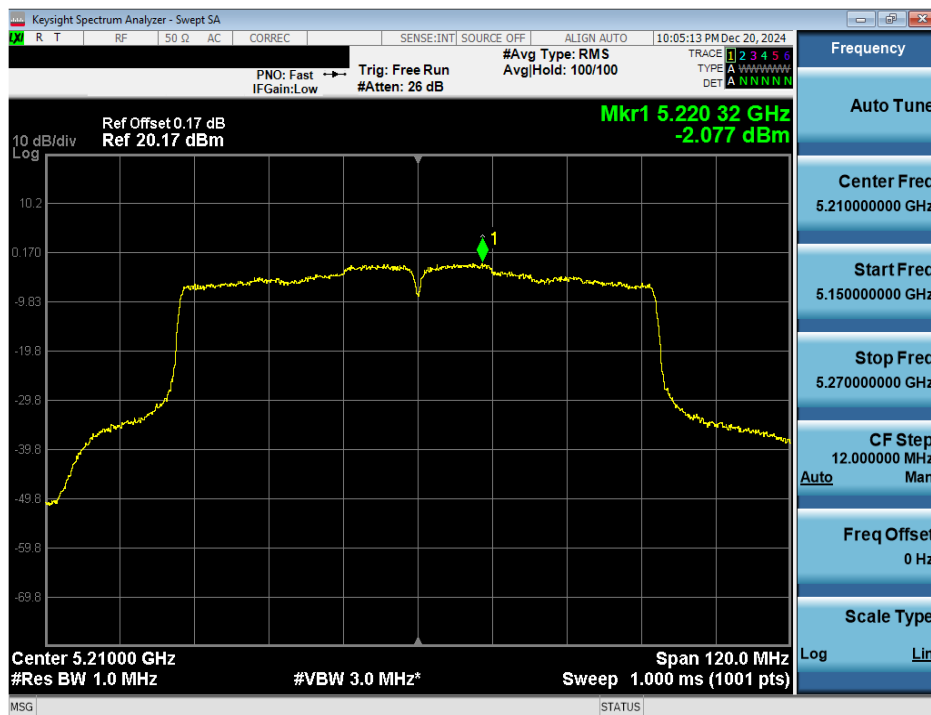


Plot 7-94. ISED PSD SDM Diversity Antenna WF7b (40MHz BW 11n – Ch.46)

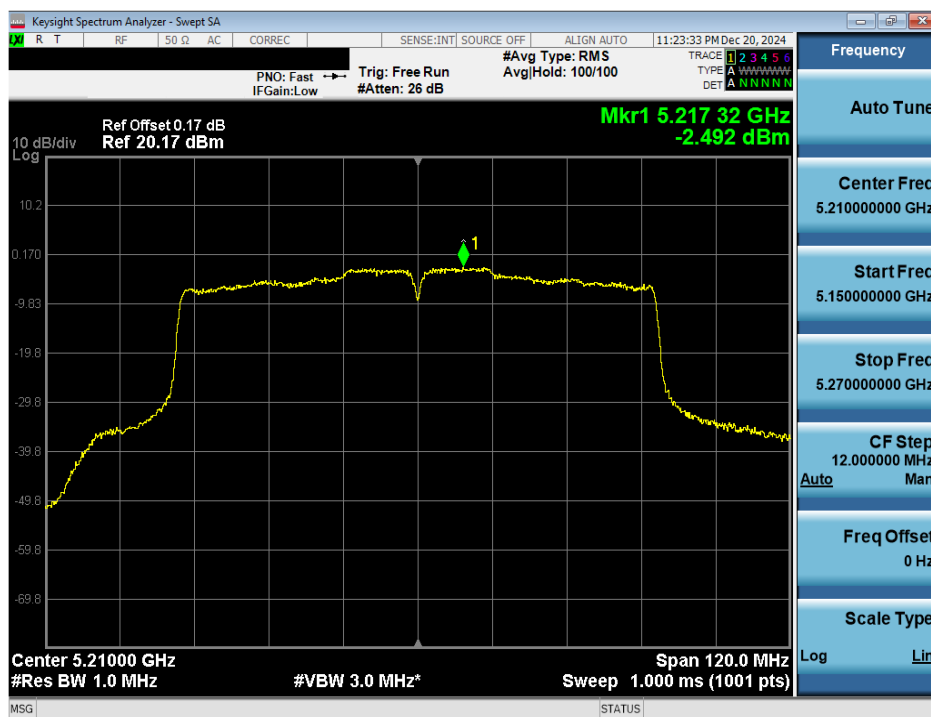
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 131 of 272

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Plot 7-95. ISED PSD SDM Diversity Antenna WF2a (80MHz BW 11ac – Ch.46)

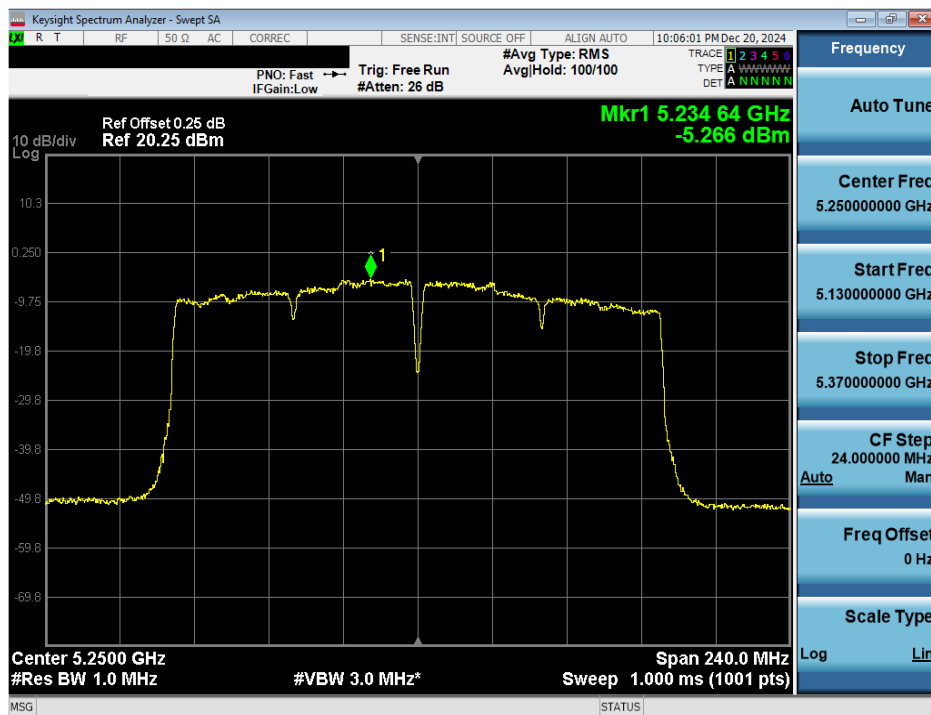


Plot 7-96. ISED PSD SDM Diversity Antenna WF7b (80MHz BW 11ac – Ch.46)

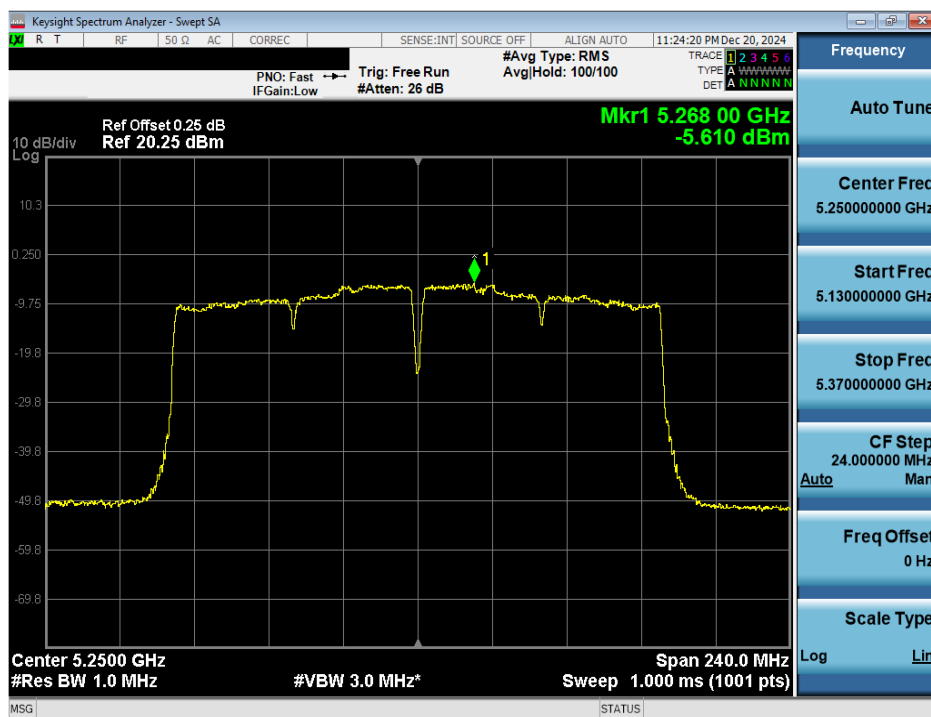
FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 132 of 272

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Plot 7-97. ISED PSD SDM Diversity Antenna WF2a (160MHz BW 11ac – Ch.50)



Plot 7-98. ISED PSD SDM Diversity Antenna WF7b (160MHz BW 11ac – Ch.50)

FCC ID: BCGA3268 IC: 579C-A3268	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna WF2a and Antenna WF2a 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 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.

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

Per ANSI C63.10-2020 Section 14.6.3, the uncorrelated 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.

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

Sample CDD/SDM Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 4.71 dBm for Antenna WF2a and 5.03 dBm for Antenna WF2a.

$$\text{Antenna WF2a} + \text{Antenna WF2a} = \text{CDD/SDM}$$

$$(4.71 \text{ dBm} + 5.03 \text{ dBm}) = (2.96\text{mW} + 3.12 \text{ mW}) = 6.08 \text{ mW} = 7.88 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 7.88 dBm with directional gain of 0.80 dBi.

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

$$7.88 \text{ dBm} + 0.80 \text{ dBi} = 8.68 \text{ dBm}$$

FCC ID: BCGA3268 IC: 579C-A3268	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210074-10-R1.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 134 of 272

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7.6 Radiated Spurious Emissions – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n, 802.11ax(SU) (20MHz BW), 802.11n, 802.11ax(SU) (40MHz BW), 802.11ac, 802.11ax(SU) (80MHz), and 802.11ac, 802.11ax(SU) (160MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-113 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-113. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Sections 12.7.7, 12.7.6

KDB 789033 D02 v02r01 – Section G

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

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

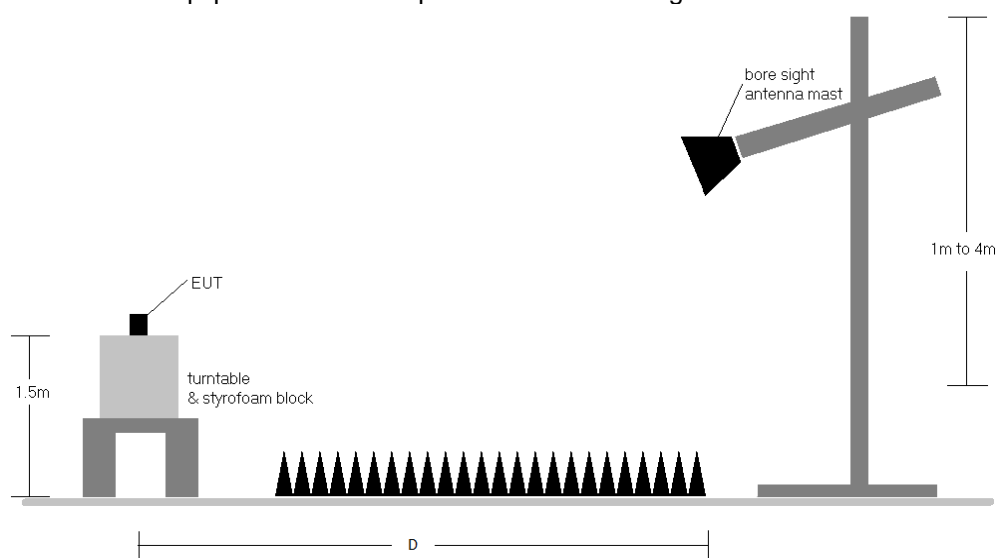



Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-113.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-113. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. All data rates and antenna configurations were investigated and only the worst case is reported.
9. The unit was tested with all possible modes and only the highest emission is reported.
10. The unit was tested at its highest output power.
11. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6.3 to 7.6.23 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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