**MEASUREMENT REPORT****FCC PART 15.407 / ISCED RSS-248 UNII 802.11ax OFDMA WIFI 6E****Applicant Name:**

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

Date of Testing:

10/25/2024 - 1/13/2025

Test Report Issue Date:

2/12/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2410210072-15-R2.BCG

FCC ID:

BCGA3266

IC:

579C-A3266

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3266

EUT Type:

Tablet Device

Frequency Range:

6115 – 6415MHz & 6535 – 6855MHz

Modulation Type:

OFDMA

FCC Classification:

15E 6GHz Very Low Power Device (6VL)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-248 Issue 3

Test Procedure(s):

ANSI C63.10-2020, KDB 789033 D02 v02r01

KDB 662911 D01 v02r01, KDB 987594 D02 v03

KDB 987594 D03 v03, KDB 987594 D04 v03

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: 1C2410210072-15-R2.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: BCGA3266 IC: 579C-A3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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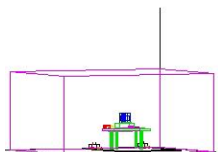
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MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				SDM	
				Antenna WF8		Antenna WF7a		Summed	
				Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)
5	20	802.11ax	6115 - 6415	3.589	5.55	3.027	4.81	3.715	5.70
7		802.11ax	6535 - 6855	2.259	3.54	2.944	4.69	3.083	4.89
5	40	802.11ax	6125 - 6405	7.362	8.67	5.781	7.62	7.362	8.67
7		802.11ax	6565 - 6845	4.457	6.49	5.998	7.78	6.067	7.83
5	80	802.11ax	6145 - 6385	12.972	11.13	2.477	3.94	13.646	11.35
7		802.11ax	6625 - 6785	8.035	9.05	10.641	10.27	10.864	10.36
5	160	802.11ax	6185 - 6345	22.233	13.47	19.011	12.79	23.174	13.65
7		802.11ax	6665	13.964	11.45	18.323	12.63	19.770	12.96

EUT Overview - VLP Power

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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: BCGA3266** and **IC: 579C-A3266**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band.

Test Device Serial No.: GK905D9C95, WR52XQW2NN, Q402QNQ6HR, C3RR4NXP6J, VQDMXWXDC4, D6X2747Q24, DLX9Z0000D0000RMA

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

Very Low Power (VLP) mode is supported for U-NII Bands 5 and 7. VLP channels below 6105 MHz in the UNII-5 band are disabled in the US and its territories.

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Band 5

Ch.	Frequency (MHz)
33	6115
:	:
61	6255
:	:
93	6415

Band 7

Ch.	Frequency (MHz)
117	6535
:	:
149	6695
:	:
181	6855

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

Band 5

Ch.	Frequency (MHz)
35	6125
:	:
59	6245
:	:
91	6405

Band 7

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

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

Band 5

Ch.	Frequency (MHz)
39	6145
:	:
55	6225
:	:
87	6385

Band 7

Ch.	Frequency (MHz)
135	6625
:	:
151	6705
:	:
167	6785

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

Band 5

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

Band 7

Ch.	Frequency (MHz)
143	6665

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

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Notes:

- 6GHz NII operation is possible in 20MHz, 40MHz, 80MHz and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 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		Antenna WF8		Antenna WF7a		SDM	
		Duty Cycle [%]	Radiated DCCF [dB]	Duty Cycle [%]	Radiated DCCF [dB]	Duty Cycle [%]	Radiated DCCF [dB]
6GHz	11ax(RU106) (20MHz)	93.28	0.30	93.24	0.30	N/A	N/A
	11ax(RU242) (20MHz)	93.91	0.27	93.89	0.27	95.81	0.19
	11ax(RU106) (40MHz)	93.00	0.32	92.96	0.32	N/A	N/A
	11ax(RU242) (40MHz)	94.36	0.25	94.41	0.25	95.21	0.21
	11ax(RU484) (40MHz)	94.82	0.23	94.75	0.23	94.17	0.26
	11ax(RU106) (80MHz)	91.05	0.41	91.01	0.41	N/A	N/A
	11ax(RU242) (80MHz)	93.73	0.28	93.69	0.28	91.10	0.41
	11ax(RU996) (80MHz)	91.22	0.40	91.20	0.40	91.50	0.39
	11ax(RU106) (160MHz)	93.82	0.28	93.78	0.28	N/A	N/A
	11ax(RU242) (160MHz)	93.50	0.29	93.45	0.29	90.55	0.43
	11ax(RU996x2) (160MHz)	92.51	0.34	92.47	0.34	88.94	0.51

Table 2-5. Measured Duty Cycles

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

WiFi Configurations		SISO		CDD		SDM		STBC	
		Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a
6GHz	11ax(RU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(RU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(RU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(RU) (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-6. WIFI Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

STBC = Space-Time Block Coding – 2Tx Function

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

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

Table 2-7. Supported Data Rates

4. This device supports simultaneous transmission operations, which allows multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz
		BDR, EDR, 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 WF8	Config 1	✓	✗	✗	✗	✓	✗
Ant WF8	Config 2	✓	✗	✗	✗	✗	✓
Ant WF8	Config 3	✗	✓	✗	✗	✓	✗
Ant WF8	Config 4	✗	✓	✗	✗	✗	✓
Ant WF8	Config 5	✗	✗	✓	✓	✗	✗

Table 2-8. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 1 and reported in RF Bluetooth and RF UNII OFDM test reports.

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.

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2.3 Antenna Description

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

UNII Band	Tx Frequency (MHz)	Highest Antenna Gain (dBi)		Lowest Antenna Gain (dBi)	
		Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a
5	6115-6415	4.30	3.50	2.10	2.70
7	6535-6855	2.10	3.30	0.20	1.10

Table 2-9. Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNP0M0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	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
6	Tablet Device	Model:	A3268	S/N:	PR2XPWVM2K

Table 2-10. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020, KDB 789033 D02 v02r01 and KDB 987594 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

For 802.11ax-SU test results, see separate UNII 6E OFDM report, 1C2410210072-14-R2.BCG.

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

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

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

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

3.4 Environmental Conditions

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

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	2.07
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	FMCA1975-36	30MHz-40GHz Conducted Cable *	6/10/2024	Annual	6/10/2025	-
Fairview Microwave	FM2CP1122-10	Directional Coupler *	6/10/2024	Annual	6/10/2025	1946
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
Mini-Circuits	ZN2PD-9G	Power Splitter*	8/16/2024	Annual	8/16/2025	SF456200530
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	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Annual	4/24/2025	101364
Rohde & Schwarz	SMW200A	Vector Signal Generator	4/4/2024	Annual	4/4/2025	109456
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/29/2024	Annual	4/29/2025	00304

Table 6-1. Test Equipment List

Note:

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3266
 IC: 579C-A3266
 FCC Classification: 15E 6GHz Very Low Power Device (6VL)

FCC Part Section(s) / KDB Reference	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049, 15.407(a)(11)	RSS-Gen [6.7], RSS-248 [4.4]	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands < 320MHz (5.925 - 7.125GHz)	CONDUCTED	PASS	Section 7.2
15.407(a)(9)	RSS-248 [4.5.6]	Maximum Power Spectral Density	< -5dBm/MHz e.i.r.p for Very Low Power		PASS	Section 7.4
15.407(a)(9)	RSS-248 [4.5.6]	Maximum Radiated Output Power	< 14dBm over the frequency band of operation for Very Low Power		PASS	Section 7.3
15.407(b)(7)	RSS-248 [4.6.2]	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7) and RSS-248 [4.6.2] b)		PASS	Section 7.5
15.407(d)(6)	RSS-248 [4.7]	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	Section 7.5.1
15.407(d.10)	RSS-248[4.6]	Transmit Power Control	EUT must employ a TPC mechanism to operate 6dB below the maximum EIRP PSD value of -5 dBm/MHz		PASS	See UNII 6e OFDM Report(1C241021 0072-14-R2.BCG)
15.407(b)(6)	RSS-248 [4.7.2]	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	RADIATED	PASS	Section 7.7
15.205, 15.209	RSS-248 [4.6.2] RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.7, 7.8
15.407(b)(9)	RSS-Gen [8.8]	AC Conducted Emissions (150kHz – 30MHz)	< FCC 15.207 (RSS-Gen [8.8]) limits	LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among the 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.
- 6) All radiated measurements were tested at the highest supported power setting per band.

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7.2 26dB & 99% Bandwidth Measurement

§2.1049, §15.407; RSS-Gen [6.7], RSS-248 [4.4]

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.

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

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7.2.1 Antenna WF8 26dB & 99% Bandwidth Measurements – VLP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6275	65	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.23	20.17	320	Pass
	6275	65	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.33	20.90	320	Pass
	6335	77	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.25	20.26	320	Pass
	6335	77	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.36	20.77	320	Pass
	6415	93	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.22	20.12	320	Pass
	6415	93	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.37	20.73	320	Pass
	6125	35	ax (40MHz)	242	61	121.9/143.4 (MCS11)	19.51	29.06	320	Pass
	6125	35	ax (40MHz)	242	62	121.9/143.4 (MCS11)	19.35	27.10	320	Pass
	6245	59	ax (40MHz)	242	61	121.9/143.4 (MCS11)	19.54	30.11	320	Pass
	6245	59	ax (40MHz)	242	62	121.9/143.4 (MCS11)	19.46	27.93	320	Pass
	6405	91	ax (40MHz)	106	53	53.1/62.5 (MCS11)	17.89	20.81	320	Pass
	6405	91	ax (40MHz)	106	54	53.1/62.5 (MCS11)	19.45	24.62	320	Pass
	6405	91	ax (40MHz)	106	56	53.1/62.5 (MCS11)	18.16	21.74	320	Pass
	6145	39	ax (80MHz)	242	61	121.9/143.4 (MCS11)	20.79	29.60	320	Pass
	6145	39	ax (80MHz)	242	62	121.9/143.4 (MCS11)	37.80	49.06	320	Pass
	6145	39	ax (80MHz)	242	64	121.9/143.4 (MCS11)	20.63	30.73	320	Pass
	6225	55	ax (80MHz)	242	61	121.9/143.4 (MCS11)	20.46	28.25	320	Pass
	6225	55	ax (80MHz)	242	62	121.9/143.4 (MCS11)	37.92	50.82	320	Pass
	6225	55	ax (80MHz)	242	64	121.9/143.4 (MCS11)	21.51	32.80	320	Pass
	6385	87	ax (80MHz)	106	53	53.1/62.5 (MCS11)	17.89	20.61	320	Pass
	6385	87	ax (80MHz)	106	56	53.1/62.5 (MCS11)	19.86	28.69	320	Pass
	6385	87	ax (80MHz)	106	60	53.1/62.5 (MCS11)	18.32	22.97	320	Pass
	6185	47 (L)	ax (160MHz)	242	61	121.9/143.4 (MCS11)	22.77	30.22	320	Pass
	6185		ax (160MHz)	242	64	121.9/143.4 (MCS11)	24.20	39.77	320	Pass
	6185	47 (U)	ax (160MHz)	242	64	121.9/143.4 (MCS11)	23.47	31.51	320	Pass
	6345	79 (L)	ax (160MHz)	106	53	53.1/62.5 (MCS11)	18.74	23.36	320	Pass
	6345		ax (160MHz)	106	56	53.1/62.5 (MCS11)	21.07	29.13	320	Pass
	6345	79 (U)	ax (160MHz)	106	60	53.1/62.5 (MCS11)	21.88	26.14	320	Pass
Band 7	6535	117	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.24	20.16	320	Pass
	6535	117	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.35	20.84	320	Pass
	6695	149	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.21	20.02	320	Pass
	6695	149	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.39	20.79	320	Pass
	6855	181	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.23	20.17	320	Pass
	6855	181	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.37	20.86	320	Pass
	6565	123	ax (40MHz)	106	53	53.1/62.5 (MCS11)	17.91	20.97	320	Pass
	6565	123	ax (40MHz)	106	54	53.1/62.5 (MCS11)	19.24	25.18	320	Pass
	6565	123	ax (40MHz)	106	56	53.1/62.5 (MCS11)	18.15	21.99	320	Pass
	6725	155	ax (40MHz)	106	53	53.1/62.5 (MCS11)	17.91	21.03	320	Pass
	6725	155	ax (40MHz)	106	54	53.1/62.5 (MCS11)	19.53	24.92	320	Pass
	6725	155	ax (40MHz)	106	56	53.1/62.5 (MCS11)	18.15	22.06	320	Pass
	6845	179	ax (40MHz)	106	53	53.1/62.5 (MCS11)	17.89	21.19	320	Pass
	6845	179	ax (40MHz)	106	54	53.1/62.5 (MCS11)	19.41	25.54	320	Pass
	6845	179	ax (40MHz)	106	56	53.1/62.5 (MCS11)	18.15	21.95	320	Pass
	6625	135	ax (80MHz)	106	53	53.1/62.5 (MCS11)	17.98	20.57	320	Pass
	6625	135	ax (80MHz)	106	56	53.1/62.5 (MCS11)	20.46	28.32	320	Pass
	6625	135	ax (80MHz)	106	60	53.1/62.5 (MCS11)	18.19	22.45	320	Pass
	6705	151	ax (80MHz)	106	53	53.1/62.5 (MCS11)	17.90	20.83	320	Pass
	6705	151	ax (80MHz)	106	56	53.1/62.5 (MCS11)	20.20	28.62	320	Pass
	6705	151	ax (80MHz)	106	60	53.1/62.5 (MCS11)	18.19	22.14	320	Pass
	6785	167	ax (80MHz)	106	53	53.1/62.5 (MCS11)	17.95	20.45	320	Pass
	6785	167	ax (80MHz)	106	56	53.1/62.5 (MCS11)	20.12	27.82	320	Pass
	6785	167	ax (80MHz)	106	60	53.1/62.5 (MCS11)	18.16	22.57	320	Pass
	6665	143 (L)	ax (160MHz)	106	53	53.1/62.5 (MCS11)	18.78	23.52	320	Pass
	6665		ax (160MHz)	106	60	53.1/62.5 (MCS11)	21.22	25.90	320	Pass
	6665	143 (U)	ax (160MHz)	106	60	53.1/62.5 (MCS11)	20.41	24.74	320	Pass

Table 7-2. Conducted Bandwidth Measurements Antenna WF8 (RU106/242)

FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 18 of 148

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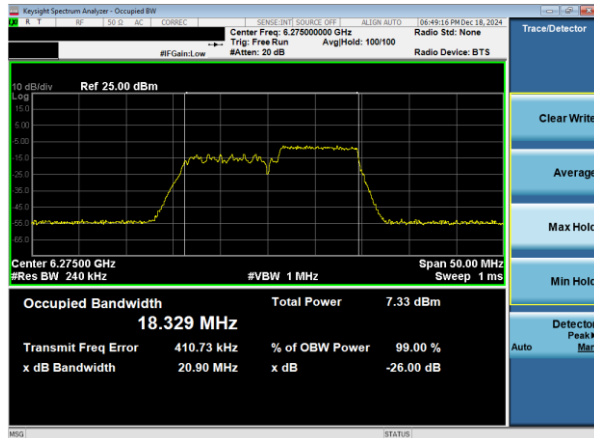
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6115	33	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.22	320	Pass
	6255	61	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.15	320	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	21.19	320	Pass
	6125	35	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	41.42	320	Pass
	6245	59	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.97	41.12	320	Pass
	6405	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.97	41.16	320	Pass
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.26	82.69	320	Pass
	6225	55	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.19	82.86	320	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.21	83.14	320	Pass
Band 7	6185	47	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.21	166.31	320	Pass
	6345	79	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.20	166.25	320	Pass
	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.28	320	Pass
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.01	21.16	320	Pass
	6855	181	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.03	320	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.95	41.33	320	Pass
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.98	41.21	320	Pass
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.90	41.43	320	Pass
	6625	135	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.43	82.74	320	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.38	82.60	320	Pass
	6785	167	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.18	82.72	320	Pass
	6665	143	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.31	166.29	320	Pass

Table 7-3. Conducted Bandwidth Measurements Antenna WF8 (Fully – Loaded RU)

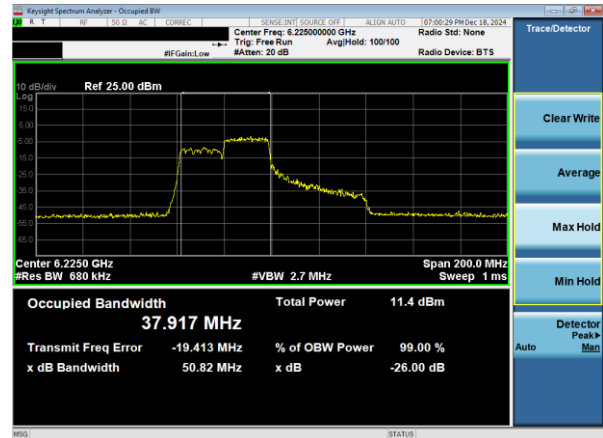
FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 19 of 148

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Plot 7-1. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax RU106 (UNII Band 5) – Ch. 65)



Plot 7-3. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax RU106 (UNII Band 5) – Ch. 62)



Plot 7-2. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax RU242 (UNII Band 5) – Ch. 59)

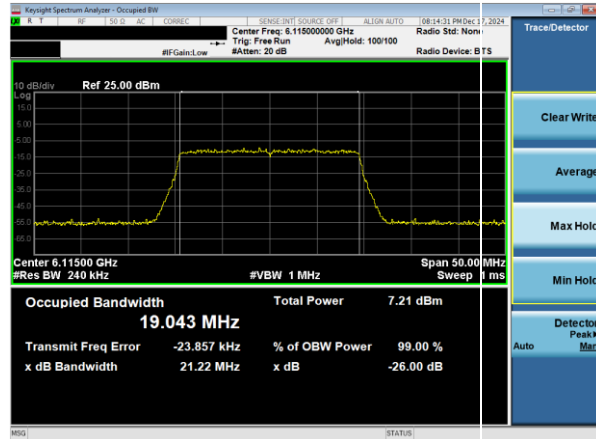


Plot 7-4. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax RU242 (UNII Band 5) – Ch. 47)

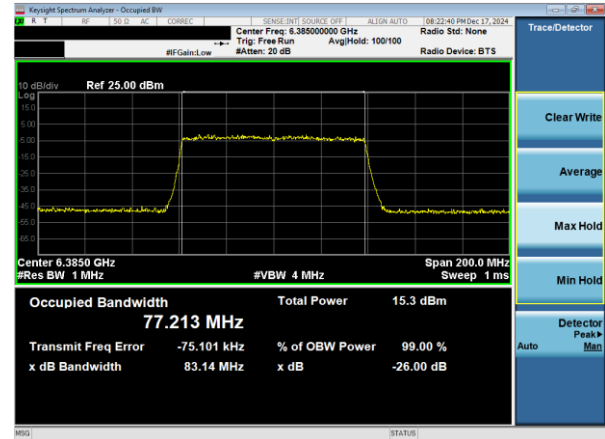
FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 20 of 148

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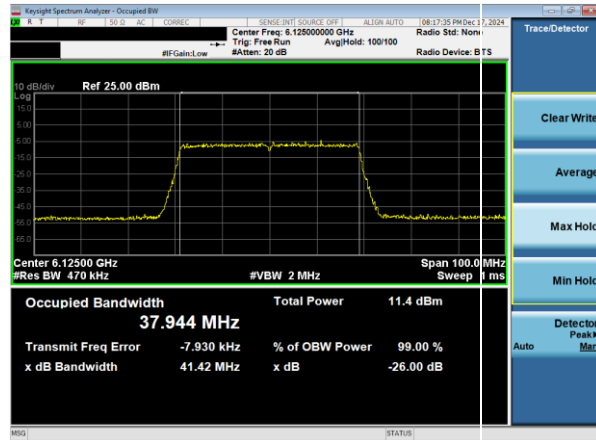
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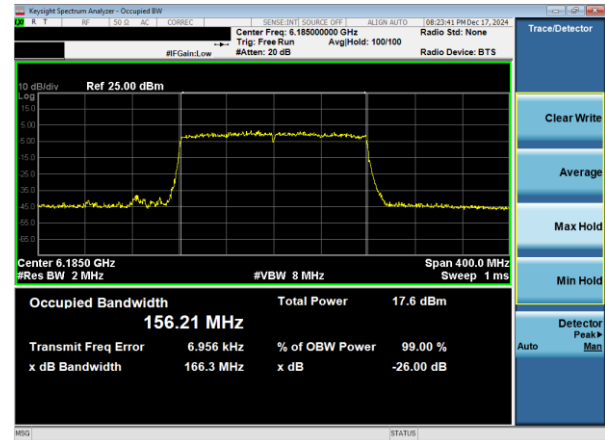
Plot 7-5. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 33)



Plot 7-7. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



Plot 7-6. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 35)

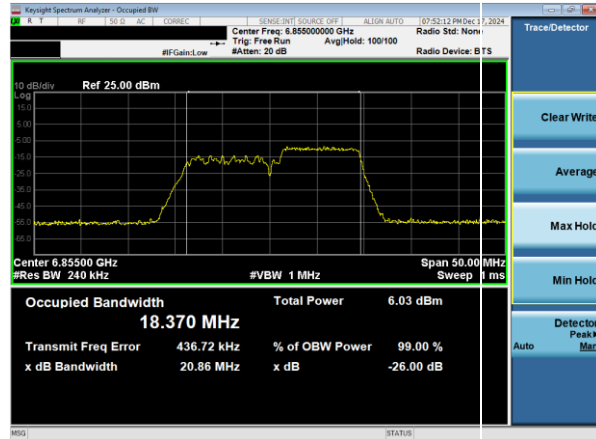


Plot 7-8. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)

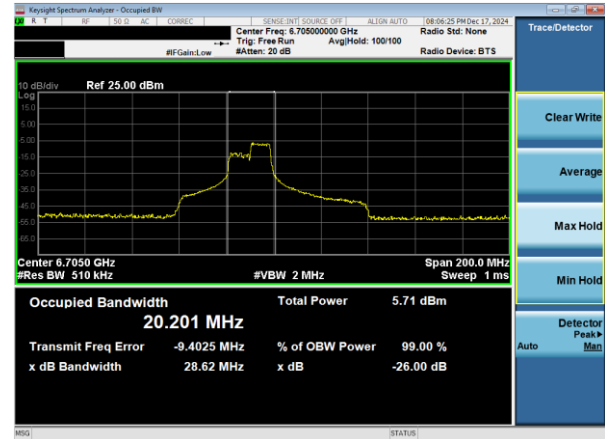
FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 21 of 148

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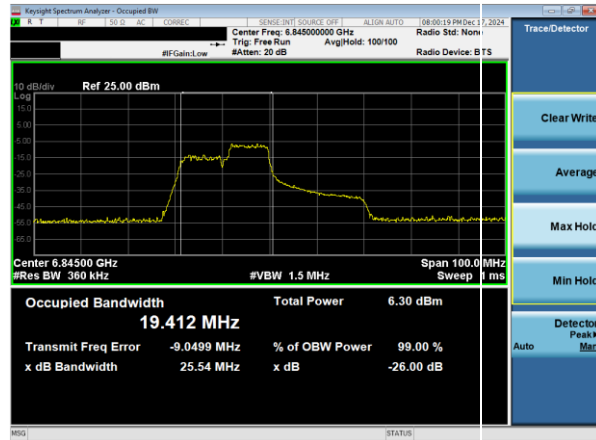
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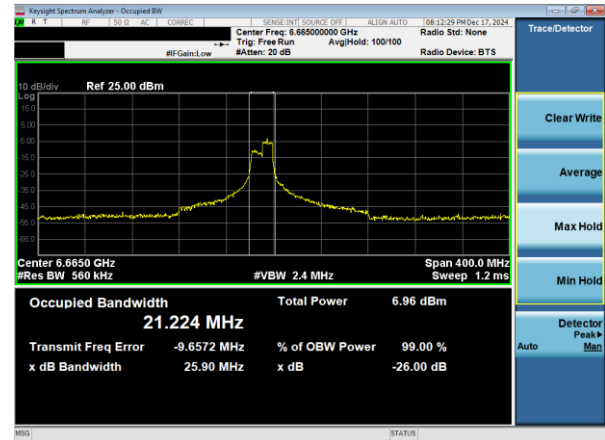
Plot 7-9. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax RU106 (UNII Band 7) – Ch. 181)



Plot 7-11. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax RU106 (UNII Band 7) – Ch. 151)



Plot 7-10. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax RU106 (UNII Band 7) – Ch. 179)



Plot 7-12. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax RU106 (UNII Band 7) – Ch. 143)

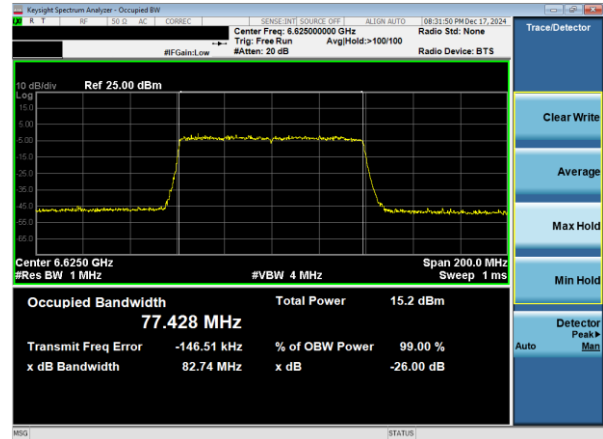
FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 22 of 148

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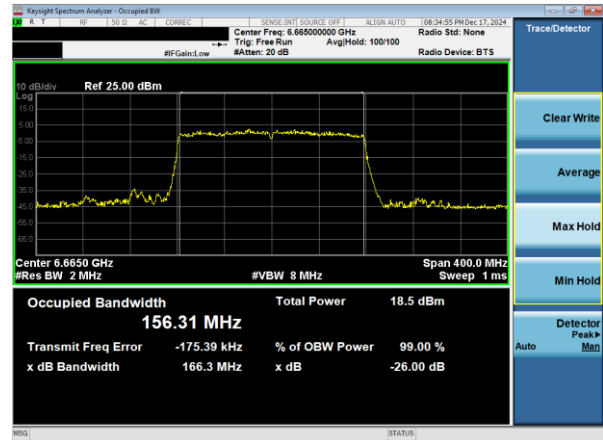
Plot 7-13. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 117)



Plot 7-15. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 135)



Plot 7-14. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



Plot 7-16. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)

FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.2 Antenna WF7a 26dB & 99% Bandwidth Measurements – VLP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6275	65	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.24	20.10	320	Pass
	6275	65	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.38	20.91	320	Pass
	6335	77	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.23	20.12	320	Pass
	6335	77	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.36	20.77	320	Pass
	6415	93	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.22	20.14	320	Pass
	6415	93	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.35	20.89	320	Pass
	6125	35	ax (40MHz)	242	61	121.9/143.4 (MCS11)	19.53	30.19	320	Pass
	6125	35	ax (40MHz)	242	62	121.9/143.4 (MCS11)	19.49	27.77	320	Pass
	6245	59	ax (40MHz)	242	61	121.9/143.4 (MCS11)	19.68	27.90	320	Pass
	6245	59	ax (40MHz)	242	62	121.9/143.4 (MCS11)	19.54	29.11	320	Pass
	6405	91	ax (40MHz)	106	53	53.1/62.5 (MCS11)	17.91	21.17	320	Pass
	6405	91	ax (40MHz)	106	54	53.1/62.5 (MCS11)	19.47	24.85	320	Pass
	6405	91	ax (40MHz)	106	56	53.1/62.5 (MCS11)	18.14	21.81	320	Pass
	6145	39	ax (80MHz)	242	61	121.9/143.4 (MCS11)	20.89	30.69	320	Pass
	6145	39	ax (80MHz)	242	62	121.9/143.4 (MCS11)	38.55	49.59	320	Pass
	6145	39	ax (80MHz)	242	64	121.9/143.4 (MCS11)	20.79	29.49	320	Pass
	6225	55	ax (80MHz)	242	61	121.9/143.4 (MCS11)	20.09	28.60	320	Pass
	6225	55	ax (80MHz)	242	62	121.9/143.4 (MCS11)	37.86	50.95	320	Pass
	6225	55	ax (80MHz)	242	64	121.9/143.4 (MCS11)	20.48	28.95	320	Pass
	6385	87	ax (80MHz)	106	53	53.1/62.5 (MCS11)	17.97	20.81	320	Pass
	6385	87	ax (80MHz)	106	56	53.1/62.5 (MCS11)	20.25	28.95	320	Pass
	6385	87	ax (80MHz)	106	60	53.1/62.5 (MCS11)	18.22	22.56	320	Pass
	6185	47 (L)	ax (160MHz)	242	61	121.9/143.4 (MCS11)	22.07	30.76	320	Pass
	6185		ax (160MHz)	242	64	121.9/143.4 (MCS11)	25.92	41.25	320	Pass
	6185	47 (U)	ax (160MHz)	242	64	121.9/143.4 (MCS11)	23.59	30.45	320	Pass
	6345	79 (L)	ax (160MHz)	106	53	53.1/62.5 (MCS11)	18.70	23.70	320	Pass
	6345		ax (160MHz)	106	56	53.1/62.5 (MCS11)	21.84	31.19	320	Pass
	6345	79 (U)	ax (160MHz)	106	60	53.1/62.5 (MCS11)	21.13	26.23	320	Pass
Band 7	6535	117	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.23	20.09	320	Pass
	6535	117	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.37	20.81	320	Pass
	6695	149	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.21	20.16	320	Pass
	6695	149	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.38	20.88	320	Pass
	6855	181	ax (20MHz)	106	53	53.1/62.5 (MCS11)	18.22	20.26	320	Pass
	6855	181	ax (20MHz)	106	54	53.1/62.5 (MCS11)	18.36	20.88	320	Pass
	6565	123	ax (40MHz)	106	53	53.1/62.5 (MCS11)	17.87	21.01	320	Pass
	6565	123	ax (40MHz)	106	54	53.1/62.5 (MCS11)	19.32	24.42	320	Pass
	6565	123	ax (40MHz)	106	56	53.1/62.5 (MCS11)	18.19	22.20	320	Pass
	6725	155	ax (40MHz)	106	53	53.1/62.5 (MCS11)	17.87	21.22	320	Pass
	6725	155	ax (40MHz)	106	54	53.1/62.5 (MCS11)	19.53	25.10	320	Pass
	6725	155	ax (40MHz)	106	56	53.1/62.5 (MCS11)	18.13	21.47	320	Pass
	6845	179	ax (40MHz)	106	53	53.1/62.5 (MCS11)	17.90	21.18	320	Pass
	6845	179	ax (40MHz)	106	54	53.1/62.5 (MCS11)	19.56	25.97	320	Pass
	6845	179	ax (40MHz)	106	56	53.1/62.5 (MCS11)	18.18	22.55	320	Pass
	6625	135	ax (80MHz)	106	53	53.1/62.5 (MCS11)	17.94	20.99	320	Pass
	6625	135	ax (80MHz)	106	56	53.1/62.5 (MCS11)	20.55	28.26	320	Pass
	6625	135	ax (80MHz)	106	60	53.1/62.5 (MCS11)	18.10	22.07	320	Pass
	6705	151	ax (80MHz)	106	53	53.1/62.5 (MCS11)	17.91	20.93	320	Pass
	6705	151	ax (80MHz)	106	56	53.1/62.5 (MCS11)	20.17	28.51	320	Pass
	6705	151	ax (80MHz)	106	60	53.1/62.5 (MCS11)	18.23	23.01	320	Pass
	6785	167	ax (80MHz)	106	53	53.1/62.5 (MCS11)	17.89	20.55	320	Pass
	6785	167	ax (80MHz)	106	56	53.1/62.5 (MCS11)	20.18	26.68	320	Pass
	6785	167	ax (80MHz)	106	60	53.1/62.5 (MCS11)	18.15	21.96	320	Pass
	6665	143 (L)	ax (160MHz)	106	53	53.1/62.5 (MCS11)	18.75	24.28	320	Pass
	6665		ax (160MHz)	106	60	53.1/62.5 (MCS11)	20.55	29.55	320	Pass
	6665	143 (U)	ax (160MHz)	106	60	53.1/62.5 (MCS11)	20.07	24.64	320	Pass

Table 7-4. Conducted Bandwidth Measurements Antenna WF7a (RU106/242)

FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 24 of 148

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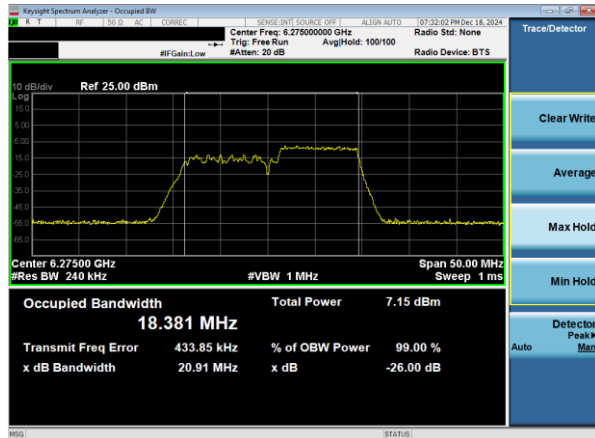
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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6115	33	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.18	320	Pass
	6255	61	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.24	320	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.02	21.19	320	Pass
	6125	35	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.98	41.34	320	Pass
	6245	59	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.93	41.37	320	Pass
	6405	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.93	41.03	320	Pass
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.23	82.77	320	Pass
	6225	55	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.15	82.72	320	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.24	83.02	320	Pass
	6185	47	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.23	166.40	320	Pass
Band 7	6345	79	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.27	165.84	320	Pass
	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.27	320	Pass
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.22	320	Pass
	6855	181	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.19	320	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.97	41.34	320	Pass
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.96	41.50	320	Pass
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	41.77	320	Pass
	6625	135	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.35	82.82	320	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.36	82.61	320	Pass
	6785	167	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.28	82.28	320	Pass
	6665	143	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.30	166.94	320	Pass

Table 7-5. Conducted Bandwidth Measurements Antenna WF7a (Fully – Loaded RU)

FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 25 of 148

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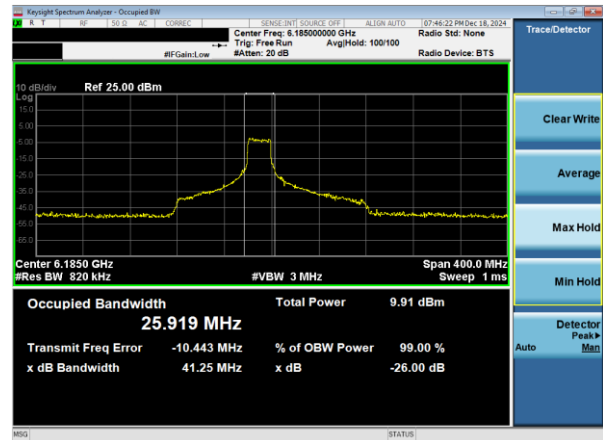
Plot 7-17. 26dB & 99% Bandwidth Plot Antenna WF7a (20MHz 802.11ax RU106 (UNII Band 5) – Ch. 65)



Plot 7-19. 26dB & 99% Bandwidth Plot Antenna WF7a (80MHz 802.11ax RU242 (UNII Band 5) – Ch. 55)



Plot 7-18. 26dB & 99% Bandwidth Plot Antenna WF7a (40MHz 802.11ax RU242 (UNII Band 5) – Ch. 35)

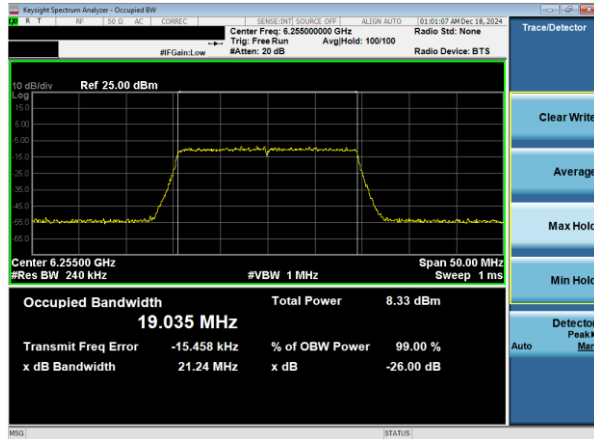


Plot 7-20. 26dB & 99% Bandwidth Plot Antenna WF7a (160MHz 802.11ax RU242 (UNII Band 5) – Ch. 47)

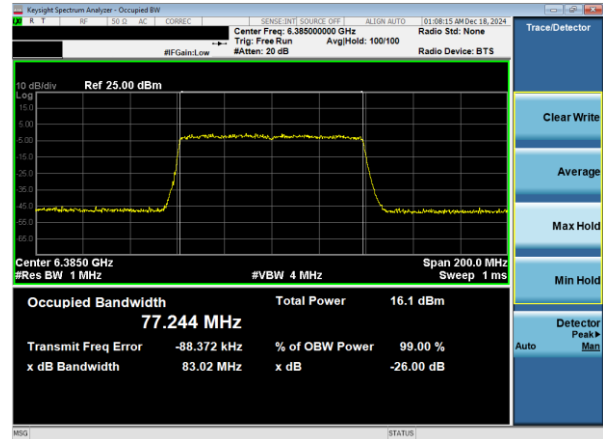
FCC ID: BCGA3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 26 of 148

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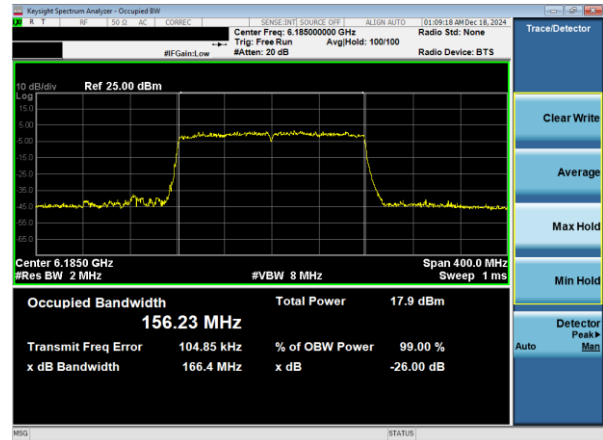
Plot 7-21. 26dB & 99% Bandwidth Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 181)



Plot 7-23. 26dB & 99% Bandwidth Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



Plot 7-22. 26dB & 99% Bandwidth Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 59)

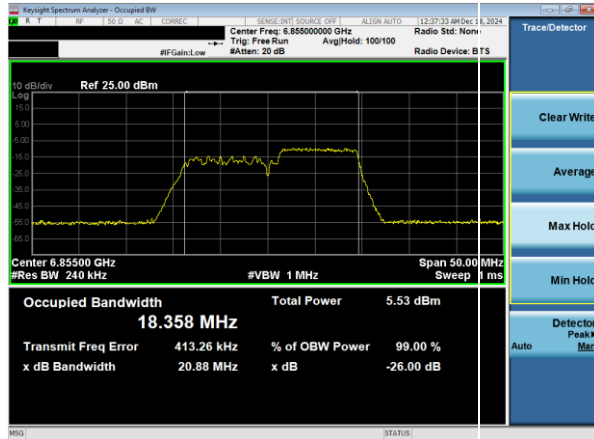


Plot 7-24. 26dB & 99% Bandwidth Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)

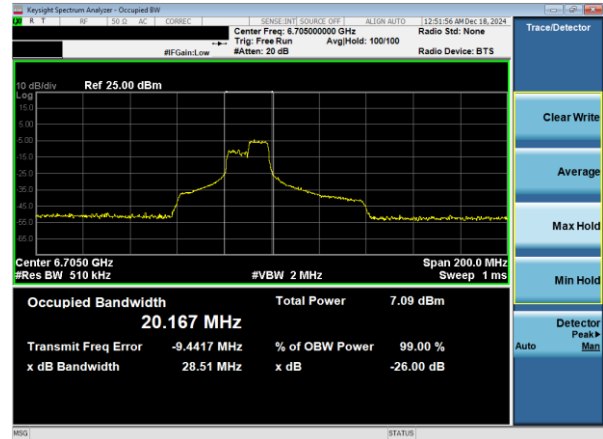
FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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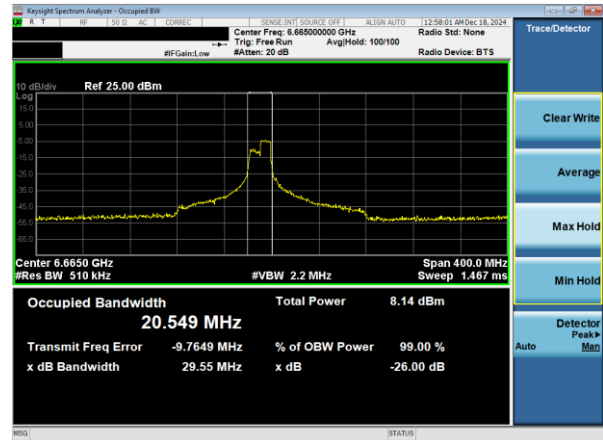
Plot 7-25. 26dB & 99% Bandwidth Plot Antenna WF7a (20MHz 802.11ax RU106 (UNII Band 7) – Ch. 181)



Plot 7-27. 26dB & 99% Bandwidth Plot Antenna WF7a (80MHz 802.11ax RU106 (UNII Band 7) – Ch. 151)



Plot 7-26. 26dB & 99% Bandwidth Plot Antenna WF7a (40MHz 802.11ax RU106 (UNII Band 7) – Ch. 179)

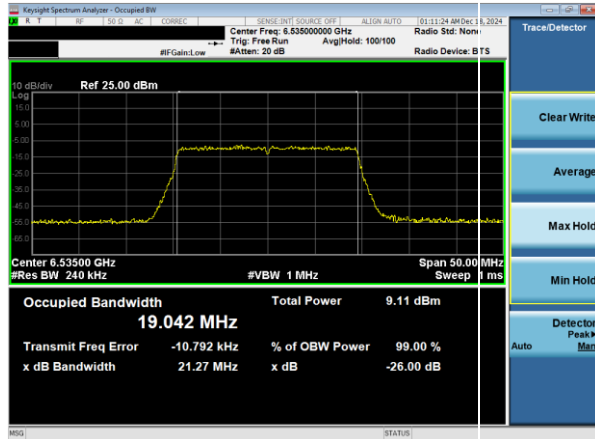


Plot 7-28. 26dB & 99% Bandwidth Plot Antenna WF7a (160MHz 802.11ax RU106 (UNII Band 7) – Ch. 143)

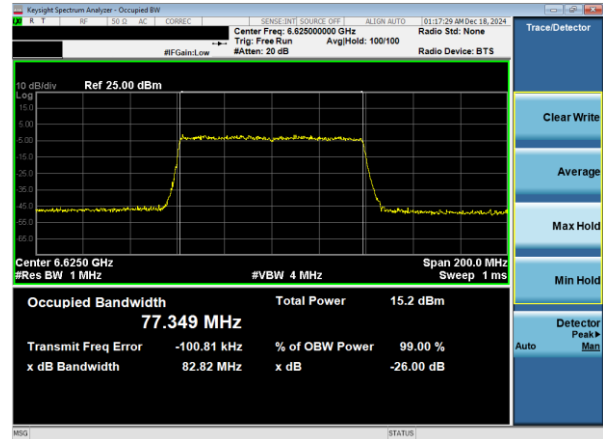
FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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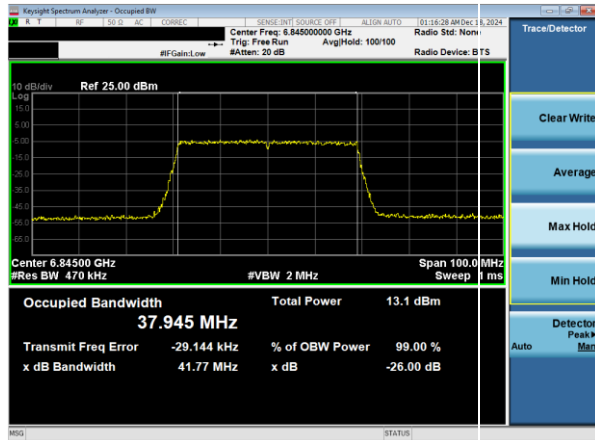
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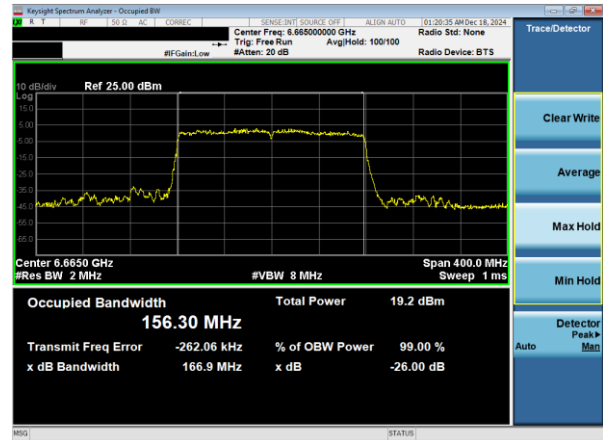
Plot 7-29. 26dB & 99% Bandwidth Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 117)



Plot 7-31. 26dB & 99% Bandwidth Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 135)



Plot 7-30. 26dB & 99% Bandwidth Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



Plot 7-32. 26dB & 99% Bandwidth Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)

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7.3 Conducted Output Power and Max EIRP Measurement

§15.407(a)(9), RSS-248[4.5.6]

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.

In the 5.925 – 7.125GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 14dBm for Very Low Power (VLP) devices

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E3)b) Method PM-G
ANSI C63.10-2020 – Section 14.4 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E1) 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 7-2. Test Instrument & Measurement Setup

Test Notes

All RU's were investigated and only the worse case partially-loaded and fully-loaded RU's were reported.

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7.3.1 Antenna WF8 Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6275	65	AVG	106	53	53.1/62.5 (MCS11)	-2.20	4.30	2.10	14.00	-11.90
			AVG	106	54	53.1/62.5 (MCS11)	-2.16	4.30	2.14	14.00	-11.86
	6335	77	AVG	106	53	53.1/62.5 (MCS11)	-2.16	4.30	2.14	14.00	-11.86
			AVG	106	54	53.1/62.5 (MCS11)	-2.16	4.30	2.14	14.00	-11.86
	6415	93	AVG	106	53	53.1/62.5 (MCS11)	-2.04	4.30	2.26	14.00	-11.74
			AVG	106	54	53.1/62.5 (MCS11)	-2.08	4.30	2.22	14.00	-11.78
	6535	117	AVG	106	53	53.1/62.5 (MCS11)	-2.00	2.10	0.10	14.00	-13.90
			AVG	106	54	53.1/62.5 (MCS11)	-2.01	2.10	0.09	14.00	-13.91
	6695	149	AVG	106	53	53.1/62.5 (MCS11)	-2.16	2.10	-0.05	14.00	-14.06
			AVG	106	54	53.1/62.5 (MCS11)	-2.15	2.10	-0.05	14.00	-14.05
	6855	181	AVG	106	53	53.1/62.5 (MCS11)	-2.00	2.10	0.10	14.00	-13.90
			AVG	106	54	53.1/62.5 (MCS11)	-2.04	2.10	0.06	14.00	-13.94

Table 7-6. Antenna WF8 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6405	91	AVG	106	53	53.1/62.5 (MCS11)	-2.12	4.30	2.19	14.00	-11.82
			AVG	106	54	53.1/62.5 (MCS11)	-2.38	4.30	1.92	14.00	-12.08
			AVG	106	56	53.1/62.5 (MCS11)	-2.34	4.30	1.96	14.00	-12.04
	6565	123	AVG	106	53	53.1/62.5 (MCS11)	-2.06	2.10	0.04	14.00	-13.96
			AVG	106	54	53.1/62.5 (MCS11)	-2.37	2.10	-0.27	14.00	-14.27
			AVG	106	56	53.1/62.5 (MCS11)	-2.24	2.10	-0.14	14.00	-14.14
	6725	155	AVG	106	53	53.1/62.5 (MCS11)	-2.14	2.10	-0.04	14.00	-14.04
			AVG	106	54	53.1/62.5 (MCS11)	-2.17	2.10	-0.07	14.00	-14.07
			AVG	106	56	53.1/62.5 (MCS11)	-2.21	2.10	-0.11	14.00	-14.11
	6845	179	AVG	106	53	53.1/62.5 (MCS11)	-2.18	2.10	-0.08	14.00	-14.08
			AVG	106	54	53.1/62.5 (MCS11)	-2.22	2.10	-0.12	14.00	-14.12
			AVG	106	56	53.1/62.5 (MCS11)	-2.28	2.10	-0.18	14.00	-14.18

Table 7-7. Antenna WF8 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	AVG	242	61	121.9/143.4 (MCS11)	0.30	4.30	4.60	14.00	-9.40
			AVG	242	62	121.9/143.4 (MCS11)	0.38	4.30	4.68	14.00	-9.32
			AVG	242	64	121.9/143.4 (MCS11)	0.48	4.30	4.78	14.00	-9.22
	6225	55	AVG	242	61	121.9/143.4 (MCS11)	0.40	4.30	4.70	14.00	-9.30
			AVG	242	62	121.9/143.4 (MCS11)	0.45	4.30	4.75	14.00	-9.25
			AVG	242	64	121.9/143.4 (MCS11)	0.49	4.30	4.79	14.00	-9.21
	6385	87	AVG	106	53	53.1/62.5 (MCS11)	-2.33	4.30	1.97	14.00	-12.03
			AVG	106	56	53.1/62.5 (MCS11)	-2.28	4.30	2.02	14.00	-11.98
			AVG	106	60	53.1/62.5 (MCS11)	-2.31	4.30	2.00	14.00	-12.01
	6625	135	AVG	106	53	53.1/62.5 (MCS11)	-2.30	2.10	-0.20	14.00	-14.20
			AVG	106	56	53.1/62.5 (MCS11)	-2.21	2.10	-0.11	14.00	-14.11
			AVG	106	60	53.1/62.5 (MCS11)	-2.17	2.10	-0.07	14.00	-14.07
	6705	151	AVG	106	53	53.1/62.5 (MCS11)	-2.31	2.10	-0.21	14.00	-14.21
			AVG	106	56	53.1/62.5 (MCS11)	-2.29	2.10	-0.19	14.00	-14.19
			AVG	106	60	53.1/62.5 (MCS11)	-2.03	2.10	0.07	14.00	-13.93
	6785	167	AVG	106	53	53.1/62.5 (MCS11)	-2.14	2.10	-0.04	14.00	-14.04
			AVG	106	56	53.1/62.5 (MCS11)	-2.05	2.10	0.06	14.00	-13.95
			AVG	106	60	53.1/62.5 (MCS11)	-2.08	2.10	0.02	14.00	-13.98

Table 7-8. Antenna WF8 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

FCC ID: BCGA3266			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47 (L)	AVG	242	61	121.9/143.4 (MCS11)	0.46	4.30	4.76	14.00	-9.24
			AVG	242	64	121.9/143.4 (MCS11)	0.41	4.30	4.71	14.00	-9.29
		47 (U)	AVG	242	64	121.9/143.4 (MCS11)	0.13	4.30	4.43	14.00	-9.58
	6345	79 (L)	AVG	106	53	53.1/62.5 (MCS11)	-2.09	4.30	2.21	14.00	-11.79
			AVG	106	60	53.1/62.5 (MCS11)	-2.17	4.30	2.14	14.00	-11.87
		79 (U)	AVG	106	60	53.1/62.5 (MCS11)	-2.16	4.30	2.15	14.00	-11.86
	6665	143 (L)	AVG	106	53	53.1/62.5 (MCS11)	-2.05	2.10	0.05	14.00	-13.95
			AVG	106	60	53.1/62.5 (MCS11)	-2.04	2.10	0.06	14.00	-13.94
		143 (U)	AVG	106	60	53.1/62.5 (MCS11)	-2.16	2.10	-0.06	14.00	-14.06

Table 7-9. Antenna WF8 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6125	35	AVG	242	61	121.9/143.4 (MCS11)	0.30	4.30	4.60	14.00	-9.40
			AVG	242	62	121.9/143.4 (MCS11)	0.35	4.30	4.65	14.00	-9.35
	6245	59	AVG	242	61	121.9/143.4 (MCS11)	0.28	4.30	4.58	14.00	-9.42
			AVG	242	62	121.9/143.4 (MCS11)	0.20	4.30	4.50	14.00	-9.50
	6405	91	AVG	242	61	121.9/143.4 (MCS11)	1.25	4.30	5.55	14.00	-8.45
			AVG	242	62	121.9/143.4 (MCS11)	1.17	4.30	5.47	14.00	-8.53
	6565	123	AVG	242	61	121.9/143.4 (MCS11)	1.33	2.10	3.43	14.00	-10.57
			AVG	242	62	121.9/143.4 (MCS11)	1.17	2.10	3.27	14.00	-10.73
	6725	155	AVG	242	61	121.9/143.4 (MCS11)	1.23	2.10	3.33	14.00	-10.67
			AVG	242	62	121.9/143.4 (MCS11)	1.46	2.10	3.56	14.00	-10.44
	6845	179	AVG	242	61	121.9/143.4 (MCS11)	1.23	2.10	3.33	14.00	-10.67
			AVG	242	62	121.9/143.4 (MCS11)	1.43	2.10	3.53	14.00	-10.47

Table 7-10. Antenna WF8 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially Loaded RU's)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	AVG	484	65	243.8/286.8 (MCS11)	3.48	4.30	7.78	14.00	-6.22
			AVG	484	66	243.8/286.8 (MCS11)	3.47	4.30	7.77	14.00	-6.23
	6225	55	AVG	484	65	243.8/286.8 (MCS11)	3.24	4.30	7.54	14.00	-6.46
			AVG	484	66	243.8/286.8 (MCS11)	3.26	4.30	7.56	14.00	-6.44
	6385	87	AVG	484	65	243.8/286.8 (MCS11)	4.34	4.30	8.64	14.00	-5.36
			AVG	484	66	243.8/286.8 (MCS11)	4.32	4.30	8.62	14.00	-5.39
	6625	135	AVG	484	65	243.8/286.8 (MCS11)	4.23	2.10	6.33	14.00	-7.67
			AVG	484	66	243.8/286.8 (MCS11)	4.23	2.10	6.33	14.00	-7.68
	6705	151	AVG	484	65	243.8/286.8 (MCS11)	4.27	2.10	6.37	14.00	-7.63
			AVG	484	66	243.8/286.8 (MCS11)	4.29	2.10	6.39	14.00	-7.61
	6785	167	AVG	484	65	243.8/286.8 (MCS11)	4.28	2.10	6.38	14.00	-7.62
			AVG	484	66	243.8/286.8 (MCS11)	4.27	2.10	6.37	14.00	-7.63

Table 7-11. Antenna WF8 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially Loaded RU's)

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47 (L)	AVG	996	67	510.4/600.5 (MCS11)	5.74	4.30	10.04	14.00	-3.97
		47 (U)	AVG	996	67	510.4/600.5 (MCS11)	5.70	4.30	10.00	14.00	-4.00
	6345	79 (L)	AVG	996	67	510.4/600.5 (MCS11)	6.78	4.30	11.08	14.00	-2.92
		79 (U)	AVG	996	67	510.4/600.5 (MCS11)	6.75	4.30	11.05	14.00	-2.95
	6665	143 (L)	AVG	996	67	510.4/600.5 (MCS11)	6.79	2.10	8.89	14.00	-5.11
		143 (U)	AVG	996	67	510.4/600.5 (MCS11)	6.85	2.10	8.95	14.00	-5.05

Table 7-12. Antenna WF8 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially Loaded RU's)

FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6115	33	AVG	242	61	121.9/143.4 (MCS11)	0.39	4.30	4.69	14.00	-9.31
	6255	61	AVG	242	61	121.9/143.4 (MCS11)	0.34	4.30	4.64	14.00	-9.36
	6415	93	AVG	242	61	121.9/143.4 (MCS11)	1.25	4.30	5.55	14.00	-8.45
	6535	117	AVG	242	61	121.9/143.4 (MCS11)	1.29	2.10	3.39	14.00	-10.61
	6695	149	AVG	242	61	121.9/143.4 (MCS11)	1.27	2.10	3.37	14.00	-10.63
	6855	181	AVG	242	61	121.9/143.4 (MCS11)	1.44	2.10	3.54	14.00	-10.46

Table 7-13. Antenna WF8 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6125	35	AVG	484	65	243.8/286.8 (MCS11)	3.14	4.30	7.44	14.00	-6.57
	6245	59	AVG	484	65	243.8/286.8 (MCS11)	3.18	4.30	7.48	14.00	-6.52
	6405	91	AVG	484	65	243.8/286.8 (MCS11)	4.37	4.30	8.67	14.00	-5.33
	6565	123	AVG	484	65	243.8/286.8 (MCS11)	4.21	2.10	6.31	14.00	-7.69
	6725	155	AVG	484	65	243.8/286.8 (MCS11)	4.16	2.10	6.26	14.00	-7.74
	6845	179	AVG	484	65	243.8/286.8 (MCS11)	4.39	2.10	6.49	14.00	-7.51

Table 7-14. Antenna WF8 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	AVG	996	67	510.4/600.5 (MCS11)	5.62	4.30	9.92	14.00	-4.08
	6225	55	AVG	996	67	510.4/600.5 (MCS11)	5.68	4.30	9.98	14.00	-4.02
	6385	87	AVG	996	67	510.4/600.5 (MCS11)	6.83	4.30	11.13	14.00	-2.87
	6625	135	AVG	996	67	510.4/600.5 (MCS11)	6.95	2.10	9.05	14.00	-4.95
	6705	151	AVG	996	67	510.4/600.5 (MCS11)	6.80	2.10	8.90	14.00	-5.10
	6785	167	AVG	996	67	510.4/600.5 (MCS11)	6.83	2.10	8.93	14.00	-5.07

Table 7-15. Antenna WF8 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47	AVG	996x2	68	1020.8/1201 (MCS11)	8.50	4.30	12.80	14.00	-1.21
	6345	79	AVG	996x2	68	1020.8/1201 (MCS11)	9.17	4.30	13.47	14.00	-0.54
	6665	143	AVG	996x2	68	1020.8/1201 (MCS11)	9.35	2.10	11.45	14.00	-2.55

Table 7-16. Antenna WF8 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 34 of 148

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7.3.2 Antenna WF7a Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6275	65	AVG	106	53	53.1/62.5 (MCS11)	-2.07	3.50	1.43	14.00	-12.57
			AVG	106	54	53.1/62.5 (MCS11)	-2.10	3.50	1.40	14.00	-12.60
	6335	77	AVG	106	53	53.1/62.5 (MCS11)	-2.02	3.50	1.48	14.00	-12.52
			AVG	106	54	53.1/62.5 (MCS11)	-2.10	3.50	1.40	14.00	-12.60
	6415	93	AVG	106	53	53.1/62.5 (MCS11)	-2.15	3.50	1.35	14.00	-12.65
			AVG	106	54	53.1/62.5 (MCS11)	-2.13	3.50	1.37	14.00	-12.63
	6535	117	AVG	106	53	53.1/62.5 (MCS11)	-2.00	3.30	1.30	14.00	-12.70
			AVG	106	54	53.1/62.5 (MCS11)	-2.25	3.30	1.05	14.00	-12.95
	6695	149	AVG	106	53	53.1/62.5 (MCS11)	-2.03	3.30	1.27	14.00	-12.73
			AVG	106	54	53.1/62.5 (MCS11)	-2.21	3.30	1.09	14.00	-12.91
	6855	181	AVG	106	53	53.1/62.5 (MCS11)	-2.28	3.30	1.02	14.00	-12.98
			AVG	106	54	53.1/62.5 (MCS11)	-2.32	3.30	0.98	14.00	-13.02

Table 7-17. Antenna WF7a 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6405	91	AVG	106	53	53.1/62.5 (MCS11)	-2.36	3.50	1.14	14.00	-12.86
			AVG	106	54	53.1/62.5 (MCS11)	-2.23	3.50	1.27	14.00	-12.73
			AVG	106	56	53.1/62.5 (MCS11)	-2.17	3.50	1.33	14.00	-12.67
	6565	123	AVG	106	53	53.1/62.5 (MCS11)	-2.11	3.30	1.19	14.00	-12.81
			AVG	106	54	53.1/62.5 (MCS11)	-2.38	3.30	0.92	14.00	-13.08
			AVG	106	56	53.1/62.5 (MCS11)	-2.13	3.30	1.17	14.00	-12.83
	6725	155	AVG	106	53	53.1/62.5 (MCS11)	-2.09	3.30	1.21	14.00	-12.79
			AVG	106	54	53.1/62.5 (MCS11)	-2.09	3.30	1.21	14.00	-12.79
			AVG	106	56	53.1/62.5 (MCS11)	-2.29	3.30	1.01	14.00	-12.99
	6845	179	AVG	106	53	53.1/62.5 (MCS11)	-2.13	3.30	1.17	14.00	-12.83
			AVG	106	54	53.1/62.5 (MCS11)	-2.14	3.30	1.16	14.00	-12.84
			AVG	106	56	53.1/62.5 (MCS11)	-2.27	3.30	1.03	14.00	-12.97

Table 7-18. Antenna WF7a 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	AVG	242	61	121.9/143.4 (MCS11)	0.40	3.50	3.90	14.00	-10.10
			AVG	242	62	121.9/143.4 (MCS11)	0.32	3.50	3.82	14.00	-10.18
			AVG	242	64	121.9/143.4 (MCS11)	0.44	3.50	3.94	14.00	-10.06
	6225	55	AVG	242	61	121.9/143.4 (MCS11)	0.31	3.50	3.81	14.00	-10.19
			AVG	242	62	121.9/143.4 (MCS11)	0.14	3.50	3.64	14.00	-10.37
			AVG	242	64	121.9/143.4 (MCS11)	0.29	3.50	3.79	14.00	-10.21
	6385	87	AVG	106	53	53.1/62.5 (MCS11)	-2.26	3.50	1.24	14.00	-12.76
			AVG	106	56	53.1/62.5 (MCS11)	-2.22	3.50	1.28	14.00	-12.72
			AVG	106	60	53.1/62.5 (MCS11)	-2.28	3.50	1.22	14.00	-12.78
	6625	135	AVG	106	53	53.1/62.5 (MCS11)	-2.38	3.30	0.92	14.00	-13.08
			AVG	106	56	53.1/62.5 (MCS11)	-2.09	3.30	1.21	14.00	-12.79
			AVG	106	60	53.1/62.5 (MCS11)	-2.20	3.30	1.10	14.00	-12.90
	6705	151	AVG	106	53	53.1/62.5 (MCS11)	-2.34	3.30	0.96	14.00	-13.04
			AVG	106	56	53.1/62.5 (MCS11)	-2.07	3.30	1.23	14.00	-12.77
			AVG	106	60	53.1/62.5 (MCS11)	-2.22	3.30	1.08	14.00	-12.92
	6785	167	AVG	106	53	53.1/62.5 (MCS11)	-2.28	3.30	1.02	14.00	-12.98
			AVG	106	56	53.1/62.5 (MCS11)	-2.10	3.30	1.20	14.00	-12.80
			AVG	106	60	53.1/62.5 (MCS11)	-2.04	3.30	1.26	14.00	-12.74

Table 7-19. Antenna WF7a 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

FCC ID: BCGA3266			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47 (L)	AVG	242	61	121.9/143.4 (MCS11)	0.17	3.50	3.67	14.00	-10.33
			AVG	242	64	121.9/143.4 (MCS11)	0.16	3.50	3.66	14.00	-10.34
		47 (U)	AVG	242	64	121.9/143.4 (MCS11)	0.24	3.50	3.74	14.00	-10.26
	6345	79 (L)	AVG	106	53	53.1/62.5 (MCS11)	-2.09	3.50	1.41	14.00	-12.59
			AVG	106	60	53.1/62.5 (MCS11)	-2.14	3.50	1.36	14.00	-12.64
		79 (U)	AVG	106	60	53.1/62.5 (MCS11)	-2.38	3.50	1.12	14.00	-12.88
	6665	143 (L)	AVG	106	53	53.1/62.5 (MCS11)	-2.20	3.30	1.10	14.00	-12.90
			AVG	106	60	53.1/62.5 (MCS11)	-2.25	3.30	1.05	14.00	-12.95
		143 (U)	AVG	106	60	53.1/62.5 (MCS11)	-2.23	3.30	1.07	14.00	-12.93

Table 7-20. Antenna WF7a 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 36 of 148

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6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6125	35	AVG	242	61	121.9/143.4 (MCS11)	0.39	3.50	3.89	14.00	-10.12
			AVG	242	62	121.9/143.4 (MCS11)	0.23	3.50	3.73	14.00	-10.27
	6245	59	AVG	242	61	121.9/143.4 (MCS11)	0.18	3.50	3.68	14.00	-10.32
			AVG	242	62	121.9/143.4 (MCS11)	0.14	3.50	3.64	14.00	-10.37
	6405	91	AVG	242	61	121.9/143.4 (MCS11)	1.48	3.50	4.98	14.00	-9.02
			AVG	242	62	121.9/143.4 (MCS11)	1.22	3.50	4.72	14.00	-9.28
	6565	123	AVG	242	61	121.9/143.4 (MCS11)	1.38	3.30	4.68	14.00	-9.32
			AVG	242	62	121.9/143.4 (MCS11)	1.23	3.30	4.53	14.00	-9.47
	6725	155	AVG	242	61	121.9/143.4 (MCS11)	1.27	3.30	4.57	14.00	-9.43
			AVG	242	62	121.9/143.4 (MCS11)	1.40	3.30	4.70	14.00	-9.30
	6845	179	AVG	242	61	121.9/143.4 (MCS11)	1.38	3.30	4.68	14.00	-9.32
			AVG	242	62	121.9/143.4 (MCS11)	1.12	3.30	4.42	14.00	-9.58

Table 7-21. Antenna WF7a 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially Loaded RU's)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	AVG	484	65	243.8/286.8 (MCS11)	3.34	3.50	6.84	14.00	-7.16
			AVG	484	66	243.8/286.8 (MCS11)	3.37	3.50	6.87	14.00	-7.14
	6225	55	AVG	484	65	243.8/286.8 (MCS11)	3.28	3.50	6.78	14.00	-7.22
			AVG	484	66	243.8/286.8 (MCS11)	3.31	3.50	6.81	14.00	-7.19
	6385	87	AVG	484	65	243.8/286.8 (MCS11)	4.28	3.50	7.78	14.00	-6.22
			AVG	484	66	243.8/286.8 (MCS11)	4.17	3.50	7.67	14.00	-6.33
	6625	135	AVG	484	65	243.8/286.8 (MCS11)	4.22	3.30	7.52	14.00	-6.49
			AVG	484	66	243.8/286.8 (MCS11)	4.22	3.30	7.52	14.00	-6.48
	6705	151	AVG	484	65	243.8/286.8 (MCS11)	4.38	3.30	7.68	14.00	-6.32
			AVG	484	66	243.8/286.8 (MCS11)	4.40	3.30	7.70	14.00	-6.31
	6785	167	AVG	484	65	243.8/286.8 (MCS11)	4.36	3.30	7.66	14.00	-6.34
			AVG	484	66	243.8/286.8 (MCS11)	4.35	3.30	7.65	14.00	-6.35

Table 7-22. Antenna WF7a 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially Loaded RU's)

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47 (L)	AVG	996	67	510.4/600.5 (MCS11)	5.86	3.50	9.36	14.00	-4.64
		47 (U)	AVG	996	67	510.4/600.5 (MCS11)	5.95	3.50	9.45	14.00	-4.55
	6345	79 (L)	AVG	996	67	510.4/600.5 (MCS11)	6.86	3.50	10.36	14.00	-3.64
		79 (U)	AVG	996	67	510.4/600.5 (MCS11)	6.85	3.50	10.35	14.00	-3.65
	6665	143 (L)	AVG	996	67	510.4/600.5 (MCS11)	6.72	3.30	10.02	14.00	-3.98
		143 (U)	AVG	996	67	510.4/600.5 (MCS11)	6.90	3.30	10.20	14.00	-3.80

Table 7-23. Antenna WF7a 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially Loaded RU's)

FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6115	33	AVG	242	61	121.9/143.4 (MCS11)	0.48	3.50	3.98	14.00	-10.02
	6255	61	AVG	242	61	121.9/143.4 (MCS11)	0.18	3.50	3.68	14.00	-10.32
	6415	93	AVG	242	61	121.9/143.4 (MCS11)	1.31	3.50	4.81	14.00	-9.19
	6535	117	AVG	242	61	121.9/143.4 (MCS11)	1.20	3.30	4.50	14.00	-9.50
	6695	149	AVG	242	61	121.9/143.4 (MCS11)	1.28	3.30	4.58	14.00	-9.42
	6855	181	AVG	242	61	121.9/143.4 (MCS11)	1.39	3.30	4.69	14.00	-9.31

Table 7-24. Antenna WF7a 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6125	35	AVG	484	65	243.8/286.8 (MCS11)	3.49	3.50	6.99	14.00	-7.01
	6245	59	AVG	484	65	243.8/286.8 (MCS11)	3.25	3.50	6.75	14.00	-7.25
	6405	91	AVG	484	65	243.8/286.8 (MCS11)	4.12	3.50	7.62	14.00	-6.38
	6565	123	AVG	484	65	243.8/286.8 (MCS11)	4.44	3.30	7.74	14.00	-6.26
	6725	155	AVG	484	65	243.8/286.8 (MCS11)	4.36	3.30	7.66	14.00	-6.34
	6845	179	AVG	484	65	243.8/286.8 (MCS11)	4.48	3.30	7.78	14.00	-6.22

Table 7-25. Antenna WF7a 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	AVG	996	67	510.4/600.5 (MCS11)	5.95	3.50	9.45	14.00	-4.55
	6225	55	AVG	996	67	510.4/600.5 (MCS11)	5.91	3.50	9.41	14.00	-4.59
	6385	87	AVG	996	67	510.4/600.5 (MCS11)	6.89	3.50	10.39	14.00	-3.61
	6625	135	AVG	996	67	510.4/600.5 (MCS11)	6.72	3.30	10.02	14.00	-3.98
	6705	151	AVG	996	67	510.4/600.5 (MCS11)	6.71	3.30	10.01	14.00	-3.99
	6785	167	AVG	996	67	510.4/600.5 (MCS11)	6.97	3.30	10.27	14.00	-3.73

Table 7-26. Antenna WF7a 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47	AVG	996x2	68	1020.8/1201 (MCS11)	8.17	3.50	11.67	14.00	-2.33
	6345	79	AVG	996x2	68	1020.8/1201 (MCS11)	9.29	3.50	12.79	14.00	-1.21
	6665	143	AVG	996x2	68	1020.8/1201 (MCS11)	9.33	3.30	12.63	14.00	-1.37

Table 7-27. Antenna WF7a 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3.3 SDM Conducted Output Power Measurements – VLP

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6125	35	SDM	AVG	242	61	243.8/286.8 (MCS11)	-2.16	-2.10	0.88	3.92	4.80	14.00	-9.20
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-2.12	-1.99	0.96	3.92	4.88	14.00	-9.12
	6245	59	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.83	-1.80	1.19	3.92	5.11	14.00	-8.89
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-1.84	-1.84	1.17	3.92	5.09	14.00	-8.91
	6405	91	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.10	-1.00	1.96	3.92	5.88	14.00	-8.12
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-1.18	-1.10	1.88	3.92	5.80	14.00	-8.20
	6565	123	SDM	AVG	242	61	243.8/286.8 (MCS11)	-0.95	-1.00	2.04	2.74	4.78	14.00	-9.22
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-1.08	-1.19	1.88	2.74	4.62	14.00	-9.38
	6725	155	SDM	AVG	242	61	243.8/286.8 (MCS11)	-0.99	-0.89	2.07	2.74	4.81	14.00	-9.19
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-0.95	-1.05	2.01	2.74	4.75	14.00	-9.25
	6845	179	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.01	-1.15	1.94	2.74	4.68	14.00	-9.32
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-0.92	-0.98	2.06	2.74	4.80	14.00	-9.20

Table 7-28. SDM 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Partially Loaded RU's)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6145	39	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.87	-1.99	1.08	3.92	5.00	14.00	-9.00
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-1.93	-1.92	1.09	3.92	5.01	14.00	-8.99
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-1.80	-1.98	1.13	3.92	5.05	14.00	-8.95
	6225	55	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.87	-1.80	1.18	3.92	5.10	14.00	-8.90
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-1.88	-1.93	1.11	3.92	5.03	14.00	-8.97
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-2.07	-1.93	1.01	3.92	4.93	14.00	-9.07
	6385	87	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.21	-1.05	1.88	3.92	5.80	14.00	-8.20
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-1.07	-1.30	1.83	3.92	5.75	14.00	-8.25
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-1.32	-1.11	1.80	3.92	5.72	14.00	-8.28
	6625	135	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.00	-1.00	2.01	2.74	4.75	14.00	-9.25
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-0.79	-0.95	2.14	2.74	4.88	14.00	-9.12
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-1.04	-1.01	1.99	2.74	4.73	14.00	-9.27
	6705	151	SDM	AVG	242	61	243.8/286.8 (MCS11)	-0.98	-0.88	2.08	2.74	4.82	14.00	-9.18
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-1.10	-0.98	1.97	2.74	4.71	14.00	-9.29
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-0.93	-0.98	2.06	2.74	4.80	14.00	-9.20
	6785	167	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.20	-0.95	1.93	2.74	4.67	14.00	-9.33
			SDM	AVG	242	62	243.8/286.8 (MCS11)	-1.07	-0.75	2.10	2.74	4.84	14.00	-9.16
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-1.14	-1.12	1.88	2.74	4.62	14.00	-9.38

Table 7-29. SDM 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6145	39	SDM	AVG	484	65	487.5/573.5 (MCS11)	1.02	1.04	4.04	3.92	7.96	14.00	-6.04
			SDM	AVG	484	66	487.5/573.5 (MCS11)	1.05	0.98	4.03	3.92	7.95	14.00	-6.05
	6225	55	SDM	AVG	484	65	487.5/573.5 (MCS11)	0.96	1.06	4.02	3.92	7.94	14.00	-6.06
			SDM	AVG	484	66	487.5/573.5 (MCS11)	1.12	1.22	4.18	3.92	8.10	14.00	-5.90
	6385	87	SDM	AVG	484	65	487.5/573.5 (MCS11)	1.74	1.69	4.72	3.92	8.64	14.00	-5.36
			SDM	AVG	484	66	487.5/573.5 (MCS11)	1.85	1.82	4.85	3.92	8.77	14.00	-5.23
	6625	135	SDM	AVG	484	65	487.5/573.5 (MCS11)	2.20	1.91	5.06	2.74	7.80	14.00	-6.20
			SDM	AVG	484	66	487.5/573.5 (MCS11)	1.87	2.08	4.99	2.74	7.73	14.00	-6.27
	6705	151	SDM	AVG	484	65	487.5/573.5 (MCS11)	2.05	2.22	5.14	2.74	7.88	14.00	-6.12
			SDM	AVG	484	66	487.5/573.5 (MCS11)	1.78	2.22	5.02	2.74	7.76	14.00	-6.24
	6785	167	SDM	AVG	484	65	487.5/573.5 (MCS11)	2.09	2.10	5.11	2.74	7.85	14.00	-6.15
			SDM	AVG	484	66	487.5/573.5 (MCS11)	2.08	2.16	5.13	2.74	7.87	14.00	-6.13

Table 7-30. SDM 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Partially Loaded RU's)

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6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6185	47 (L)	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.83	-2.15	1.03	3.92	4.95	14.00	-9.05
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-1.76	-2.07	1.10	3.92	5.02	14.00	-8.98
	6345	47 (U)	SDM	AVG	242	64	243.8/286.8 (MCS11)	-1.76	-2.04	1.11	3.92	5.03	14.00	-8.97
			SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.38	-1.21	1.72	3.92	5.64	14.00	-8.36
	6665	79 (L)	SDM	AVG	242	64	243.8/286.8 (MCS11)	-1.06	-1.18	1.89	3.92	5.81	14.00	-8.19
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-1.14	-1.00	1.94	3.92	5.86	14.00	-8.14
		143 (L)	SDM	AVG	242	61	243.8/286.8 (MCS11)	-0.97	-0.83	2.11	2.74	4.85	14.00	-9.15
			SDM	AVG	242	64	243.8/286.8 (MCS11)	-0.93	-0.78	2.15	2.74	4.89	14.00	-9.11
		143 (U)	SDM	AVG	242	64	243.8/286.8 (MCS11)	-0.89	-0.93	2.10	2.74	4.84	14.00	-9.16

Table 7-31. SDM 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6185	47 (L)	SDM	AVG	996	67	1020.8/1201 (MCS11)	3.44	3.58	6.52	3.92	10.44	14.00	-3.56
			SDM	AVG	996	67	1020.8/1201 (MCS11)	3.43	3.62	6.54	3.92	10.46	14.00	-3.54
	6345	79 (L)	SDM	AVG	996	67	1020.8/1201 (MCS11)	4.19	4.47	7.34	3.92	11.26	14.00	-2.74
			SDM	AVG	996	67	1020.8/1201 (MCS11)	4.18	4.46	7.33	3.92	11.25	14.00	-2.75
	6665	143 (L)	SDM	AVG	996	67	1020.8/1201 (MCS11)	4.48	4.65	7.58	2.74	10.32	14.00	-3.68
			SDM	AVG	996	67	1020.8/1201 (MCS11)	4.48	4.65	7.58	2.74	10.32	14.00	-3.68
		143 (U)	SDM	AVG	996	67	1020.8/1201 (MCS11)	4.48	4.65	7.58	2.74	10.32	14.00	-3.68
			SDM	AVG	996	67	1020.8/1201 (MCS11)	4.48	4.65	7.58	2.74	10.32	14.00	-3.68

Table 7-32. SDM 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially Loaded RU's)

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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6115	33	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.91	-2.12	1.00	3.92	4.92	14.00	-9.08
	6255	61	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.85	-2.02	1.08	3.92	5.00	14.00	-9.00
	6415	93	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.21	-1.26	1.78	3.92	5.70	14.00	-8.30
	6535	117	SDM	AVG	242	61	243.8/286.8 (MCS11)	-0.93	-0.79	2.15	2.74	4.89	14.00	-9.11
	6695	149	SDM	AVG	242	61	243.8/286.8 (MCS11)	-1.00	-0.84	2.09	2.74	4.83	14.00	-9.17
	6855	181	SDM	AVG	242	61	243.8/286.8 (MCS11)	-0.84	-1.06	2.06	2.74	4.80	14.00	-9.20

Table 7-33. SDM 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6125	35	SDM	AVG	484	65	487.5/573.5 (MCS11)	1.17	1.07	4.13	3.92	8.05	14.00	-5.95
	6245	59	SDM	AVG	484	65	487.5/573.5 (MCS11)	0.94	0.97	3.97	3.92	7.89	14.00	-6.11
	6405	91	SDM	AVG	484	65	487.5/573.5 (MCS11)	1.77	1.70	4.75	3.92	8.67	14.00	-5.33
	6565	123	SDM	AVG	484	65	487.5/573.5 (MCS11)	2.18	1.91	5.06	2.74	7.80	14.00	-6.20
	6725	155	SDM	AVG	484	65	487.5/573.5 (MCS11)	1.98	1.99	5.00	2.74	7.74	14.00	-6.26
	6845	179	SDM	AVG	484	65	487.5/573.5 (MCS11)	2.17	2.00	5.09	2.74	7.83	14.00	-6.17

Table 7-34. SDM 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6145	39	SDM	AVG	996	67	1020.8/1201 (MCS11)	3.54	3.61	6.59	3.92	10.51	14.00	-3.49
	6225	55	SDM	AVG	996	67	1020.8/1201 (MCS11)	3.72	3.51	6.62	3.92	10.54	14.00	-3.46
	6385	87	SDM	AVG	996	67	1020.8/1201 (MCS11)	4.37	4.46	7.43	3.92	11.35	14.00	-2.65
	6625	135	SDM	AVG	996	67	1020.8/1201 (MCS11)	4.75	4.47	7.62	2.74	10.36	14.00	-3.64
	6705	151	SDM	AVG	996	67	1020.8/1201 (MCS11)	4.64	4.53	7.59	2.74	10.33	14.00	-3.67
	6785	167	SDM	AVG	996	67	1020.8/1201 (MCS11)	4.48	4.48	7.49	2.74	10.23	14.00	-3.77

Table 7-35. SDM 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna WF8	Antenna WF7a	Summed				
	6185	47	SDM	AVG	996x2	68	2041.6/2402 (MCS11)	6.19	6.01	9.11	3.92	13.03	14.00	-0.97
	6345	79	SDM	AVG	996x2	68	2041.6/2402 (MCS11)	6.61	6.81	9.73	3.92	13.65	14.00	-0.35
	6665	143	SDM	AVG	996x2	68	2041.6/2402 (MCS11)	7.21	7.21	10.22	2.74	12.96	14.00	-1.04

Table 7-36. SDM 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

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Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna WF8 and Antenna WF7a were first measured separately during 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 14.4.3, 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 14.4.3, 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 SDM Calculation:

At 6115MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be -1.91 dBm for Antenna WF8 and -2.12 dBm for Antenna WF7a.

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

$$(-1.91 \text{ dBm} + -2.12 \text{ dBm}) = (0.644 \text{ mW} + 0.614 \text{ mW}) = 1.26 \text{ mW} = 1.00 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 6115MHz in 802.11ax (20MHz BW) mode, the average MIMO conducted power was calculated to be 1 dBm with directional gain of 3.92 dBi.

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

$$1.00 \text{ dBm} + 3.92 \text{ dBi} = 4.92 \text{ dBm}$$

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7.4 Maximum Power Spectral Density

§15.407(a)(9), RSS-248 [4.5.6]

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 5.925 – 6.425GHz & 6.525 – 6875GHz bands, the maximum permissible power spectral density must not exceed - 5dBm e.i.r.p. in any 1-megahertz band for Very Low Power operating modes.

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
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span/RBW})$
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 7-3. Test Instrument & Measurement Setup

Test Notes

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

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7.4.1 Antenna WF8 Power Spectral Density Measurements – VLP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6275	65	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-10.35	4.30	-6.05	-5	-1.05
	6275	65	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-9.89	4.30	-5.59	-5	-0.59
	6335	77	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-10.03	4.30	-5.73	-5	-0.73
	6335	77	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-9.86	4.30	-5.56	-5	-0.56
	6415	93	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-10.77	4.30	-6.47	-5	-1.47
	6415	93	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-10.56	4.30	-6.26	-5	-1.26
	6125	35	ax (40MHz)	242	61	121.9/143.4 (MCS11)	-11.02	4.30	-6.72	-5	-1.72
	6125	35	ax (40MHz)	242	62	121.9/143.4 (MCS11)	-10.90	4.30	-6.60	-5	-1.60
	6245	59	ax (40MHz)	242	61	121.9/143.4 (MCS11)	-11.08	4.30	-6.78	-5	-1.78
	6245	59	ax (40MHz)	242	62	121.9/143.4 (MCS11)	-10.69	4.30	-6.39	-5	-1.39
	6405	91	ax (40MHz)	106	53	53.1/62.5 (MCS11)	-10.99	4.30	-6.69	-5	-1.69
	6405	91	ax (40MHz)	106	54	53.1/62.5 (MCS11)	-11.54	4.30	-7.24	-5	-2.24
	6405	91	ax (40MHz)	106	56	53.1/62.5 (MCS11)	-10.53	4.30	-6.23	-5	-1.23
	6145	39	ax (80MHz)	242	61	121.9/143.4 (MCS11)	-11.36	4.30	-7.06	-5	-2.06
	6145	39	ax (80MHz)	242	62	121.9/143.4 (MCS11)	-11.35	4.30	-7.05	-5	-2.05
	6145	39	ax (80MHz)	242	64	121.9/143.4 (MCS11)	-10.69	4.30	-6.39	-5	-1.39
	6225	55	ax (80MHz)	242	61	121.9/143.4 (MCS11)	-10.94	4.30	-6.64	-5	-1.64
	6225	55	ax (80MHz)	242	62	121.9/143.4 (MCS11)	-11.23	4.30	-6.93	-5	-1.93
	6225	55	ax (80MHz)	242	64	121.9/143.4 (MCS11)	-10.51	4.30	-6.21	-5	-1.21
	6385	87	ax (80MHz)	106	53	53.1/62.5 (MCS11)	-11.47	4.30	-7.17	-5	-2.17
	6385	87	ax (80MHz)	106	56	53.1/62.5 (MCS11)	-11.42	4.30	-7.12	-5	-2.12
	6385	87	ax (80MHz)	106	60	53.1/62.5 (MCS11)	-12.52	4.30	-8.22	-5	-3.22
	6185	47 (L)	ax (160MHz)	242	61	121.9/143.4 (MCS11)	-10.96	4.30	-6.66	-5	-1.66
	6185		ax (160MHz)	242	64	121.9/143.4 (MCS11)	-10.82	4.30	-6.52	-5	-1.52
	6185	47 (U)	ax (160MHz)	242	64	121.9/143.4 (MCS11)	-10.94	4.30	-6.64	-5	-1.64
	6345	79 (L)	ax (160MHz)	106	53	53.1/62.5 (MCS11)	-10.85	4.30	-6.55	-5	-1.55
	6345		ax (160MHz)	106	60	53.1/62.5 (MCS11)	-11.20	4.30	-6.90	-5	-1.90
	6345	79 (U)	ax (160MHz)	106	60	53.1/62.5 (MCS11)	-11.21	4.30	-6.91	-5	-1.91
Band 7	6535	117	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-11.10	2.10	-9.00	-5	-4.00
	6535	117	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-11.34	2.10	-9.24	-5	-4.24
	6695	149	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-11.30	2.10	-9.20	-5	-4.20
	6695	149	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-11.33	2.10	-9.23	-5	-4.23
	6855	181	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-11.22	2.10	-9.12	-5	-4.12
	6855	181	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-11.38	2.10	-9.28	-5	-4.28
	6565	123	ax (40MHz)	106	53	53.1/62.5 (MCS11)	-11.67	2.10	-9.57	-5	-4.57
	6565	123	ax (40MHz)	106	54	53.1/62.5 (MCS11)	-11.79	2.10	-9.69	-5	-4.69
	6565	123	ax (40MHz)	106	56	53.1/62.5 (MCS11)	-11.93	2.10	-9.83	-5	-4.83
	6725	155	ax (40MHz)	106	53	53.1/62.5 (MCS11)	-11.18	2.10	-9.08	-5	-4.08
	6725	155	ax (40MHz)	106	54	53.1/62.5 (MCS11)	-11.45	2.10	-9.35	-5	-4.35
	6725	155	ax (40MHz)	106	56	53.1/62.5 (MCS11)	-11.24	2.10	-9.14	-5	-4.14
	6845	179	ax (40MHz)	106	53	53.1/62.5 (MCS11)	-11.82	2.10	-9.72	-5	-4.72
	6845	179	ax (40MHz)	106	54	53.1/62.5 (MCS11)	-11.65	2.10	-9.55	-5	-4.55
	6845	179	ax (40MHz)	106	56	53.1/62.5 (MCS11)	-11.66	2.10	-9.56	-5	-4.56
	6625	135	ax (80MHz)	106	53	53.1/62.5 (MCS11)	-11.65	2.10	-9.55	-5	-4.55
	6625	135	ax (80MHz)	106	56	53.1/62.5 (MCS11)	-11.36	2.10	-9.26	-5	-4.26
	6625	135	ax (80MHz)	106	60	53.1/62.5 (MCS11)	-11.49	2.10	-9.39	-5	-4.39
	6705	151	ax (80MHz)	106	53	53.1/62.5 (MCS11)	-11.16	2.10	-9.06	-5	-4.06
	6705	151	ax (80MHz)	106	56	53.1/62.5 (MCS11)	-11.72	2.10	-9.62	-5	-4.62
	6705	151	ax (80MHz)	106	60	53.1/62.5 (MCS11)	-11.21	2.10	-9.11	-5	-4.11
	6785	167	ax (80MHz)	106	53	53.1/62.5 (MCS11)	-11.78	2.10	-9.68	-5	-4.68
	6785	167	ax (80MHz)	106	56	53.1/62.5 (MCS11)	-11.97	2.10	-9.87	-5	-4.87
	6785	167	ax (80MHz)	106	60	53.1/62.5 (MCS11)	-11.66	2.10	-9.56	-5	-4.56
	6665	143 (L)	ax (160MHz)	106	53	53.1/62.5 (MCS11)	-11.10	2.10	-9.00	-5	-4.00
	6665		ax (160MHz)	106	60	53.1/62.5 (MCS11)	-12.35	2.10	-10.25	-5	-5.25
	6665	143 (U)	ax (160MHz)	106	60	53.1/62.5 (MCS11)	-11.27	2.10	-9.17	-5	-4.17

Table 7-37. Power Spectral Density Measurements Antenna WF8 (RU106/242)

FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 44 of 148

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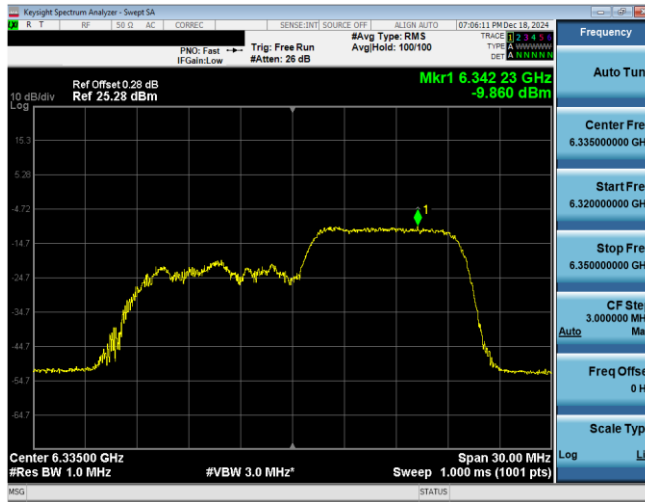
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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-12.60	4.30	-8.30	-5	-3.30
	6255	61	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-12.01	4.30	-7.71	-5	-2.71
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-10.87	4.30	-6.57	-5	-1.57
	6125	35	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-12.07	4.30	-7.77	-5	-2.77
	6245	59	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-11.83	4.30	-7.53	-5	-2.53
	6405	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-10.54	4.30	-6.24	-5	-1.24
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-12.18	4.30	-7.88	-5	-2.88
	6225	55	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-12.23	4.30	-7.93	-5	-2.93
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-10.52	4.30	-6.22	-5	-1.22
	6185	47	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-12.11	4.30	-7.81	-5	-2.81
Band 7	6345	79	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-11.31	4.30	-7.01	-5	-2.01
	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-10.83	2.10	-8.73	-5	-3.73
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-11.16	2.10	-9.06	-5	-4.06
	6855	181	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-10.98	2.10	-8.88	-5	-3.88
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-10.86	2.10	-8.76	-5	-3.76
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-11.16	2.10	-9.06	-5	-4.06
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-10.68	2.10	-8.58	-5	-3.58
	6625	135	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-11.78	2.10	-9.68	-5	-4.68
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-11.31	2.10	-9.21	-5	-4.21
	6785	167	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-11.75	2.10	-9.65	-5	-4.65
	6665	143	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-11.87	2.10	-9.77	-5	-4.77

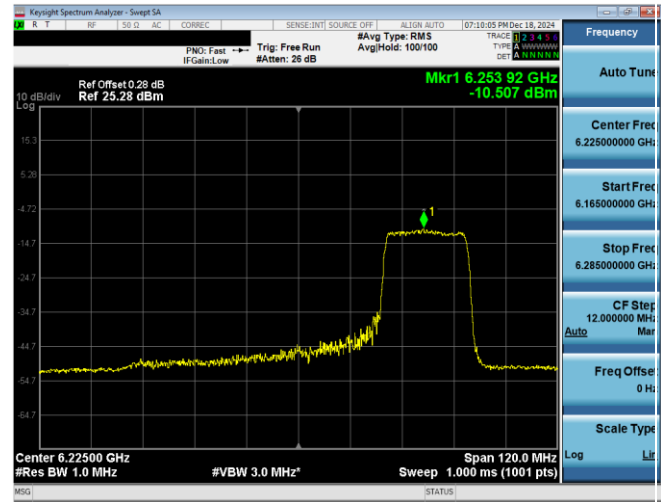
Table 7-38. Power Spectral Density Measurements Antenna WF8 (Fully – Loaded RU)

FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 45 of 148

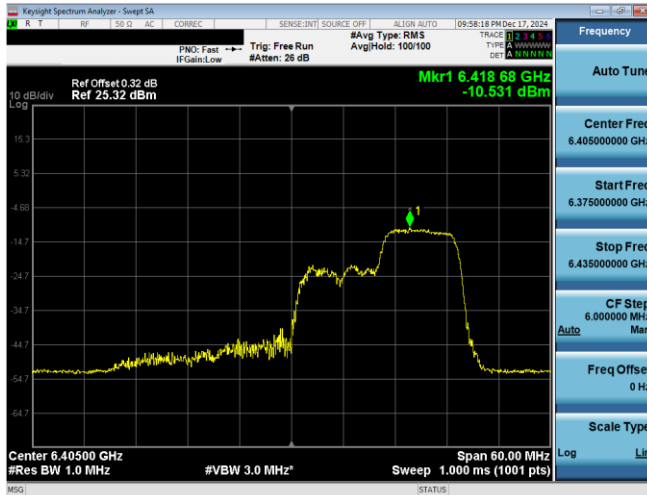
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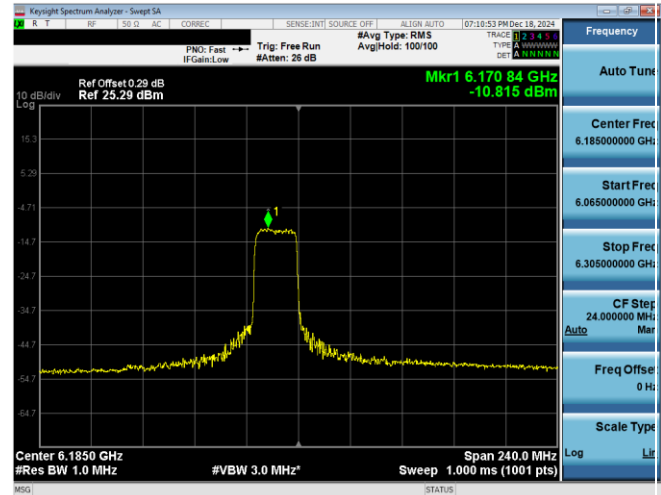
Plot 7-33. PSD Plot Antenna WF8 (20MHz 802.11ax RU106 (UNII Band 5) – Ch. 77)



Plot 7-35. PSD Plot Antenna WF8 (80MHz 802.11ax RU106 (UNII Band 5) – Ch. 55)



Plot 7-34. PSD Plot Antenna WF8 (40MHz 802.11ax RU106 (UNII Band 5) – Ch. 91)

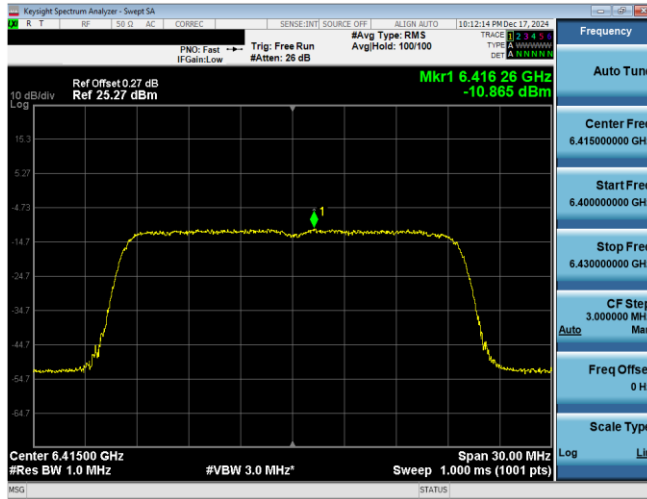


Plot 7-36. PSD Plot Antenna WF8 (160MHz 802.11ax RU242 (UNII Band 5) – Ch. 47)

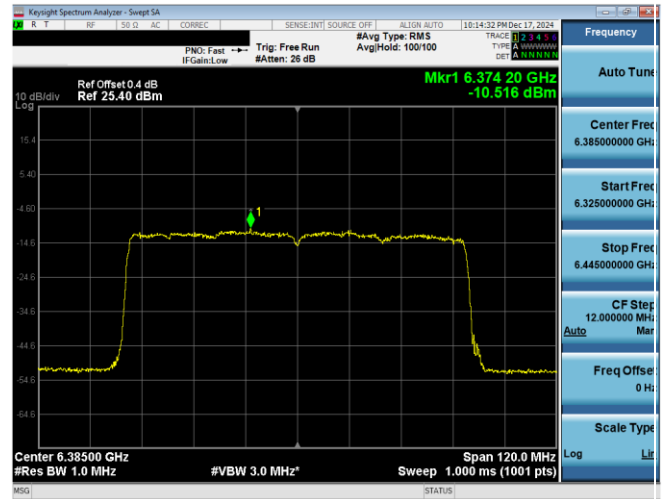
FCC ID: BCGA3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 46 of 148

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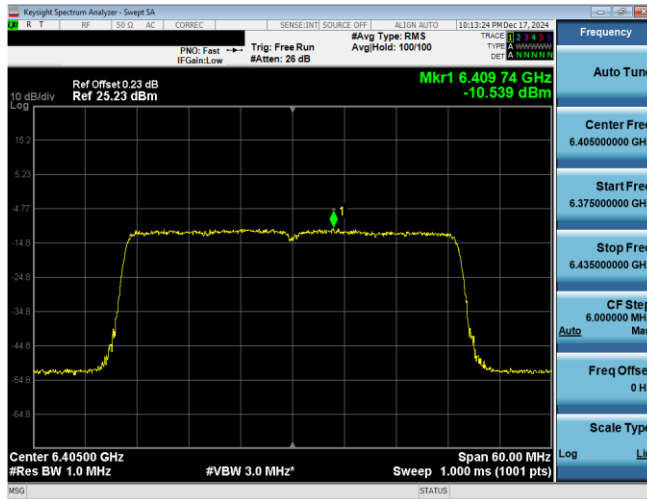
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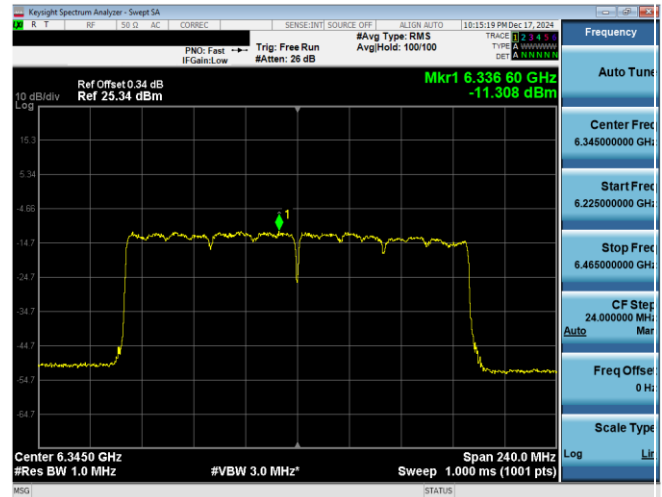
Plot 7-37. PSD Plot Antenna WF8 (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 93)



Plot 7-39. PSD Plot Antenna WF8 (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



Plot 7-38. PSD Plot Antenna WF8 (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 91)

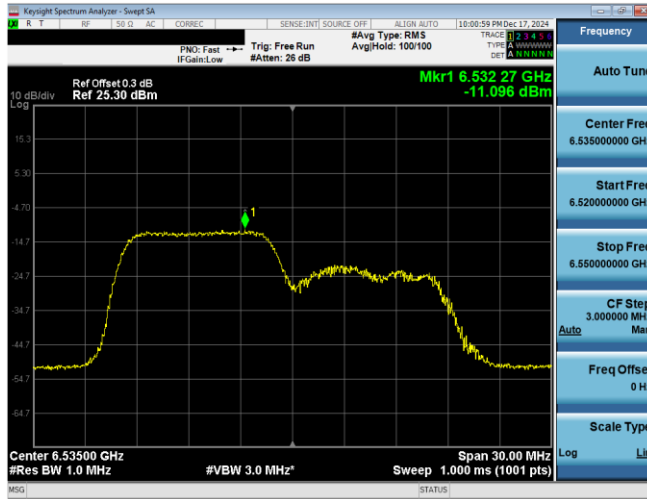


Plot 7-40. PSD Plot Antenna WF8 (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)

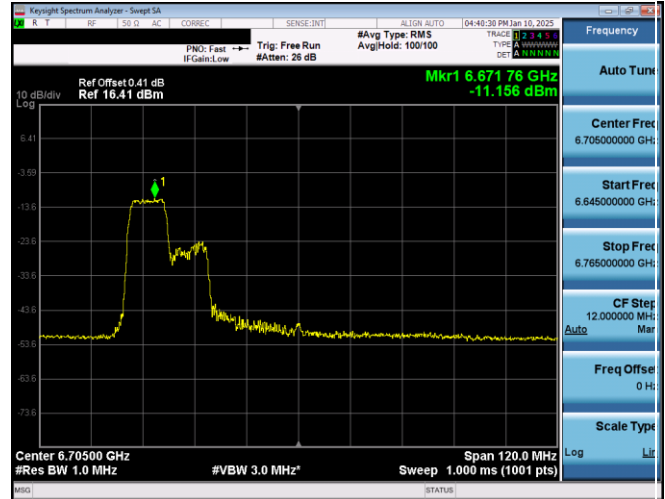
FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 47 of 148

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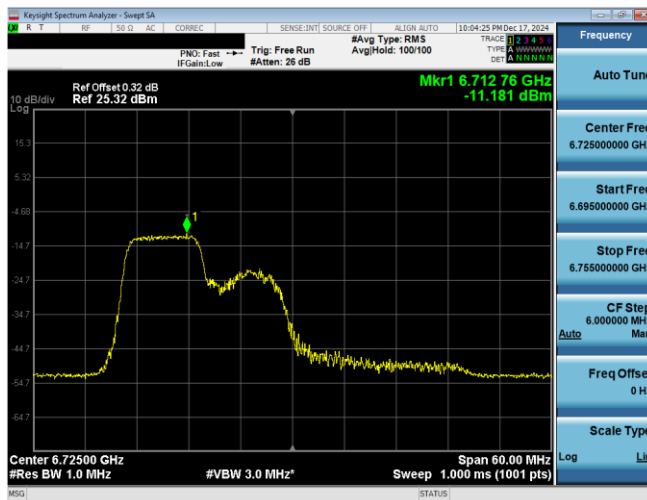
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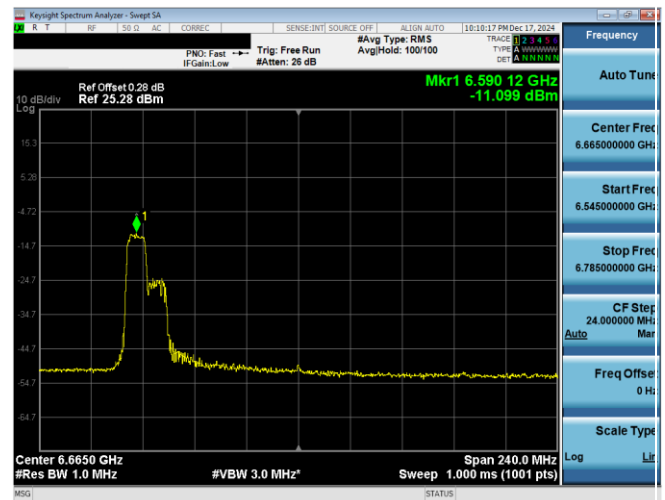
Plot 7-41. PSD Plot Antenna WF8 (20MHz 802.11ax RU106 (UNII Band 7) – Ch. 117)



Plot 7-43. PSD Plot Antenna WF8 (80MHz 802.11ax RU106 (UNII Band 7) – Ch. 151)



Plot 7-42. PSD Plot Antenna WF8 (40MHz 802.11ax RU106 (UNII Band 7) – Ch. 155)

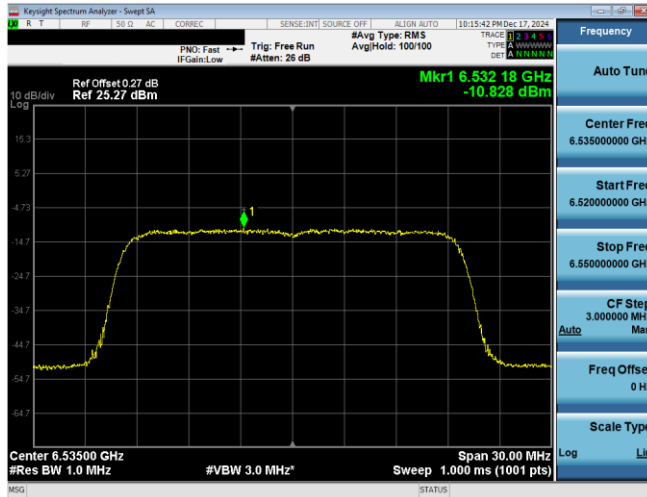


Plot 7-44. PSD Plot Antenna WF8 (160MHz 802.11ax RU106 (UNII Band 7) – Ch. 143)

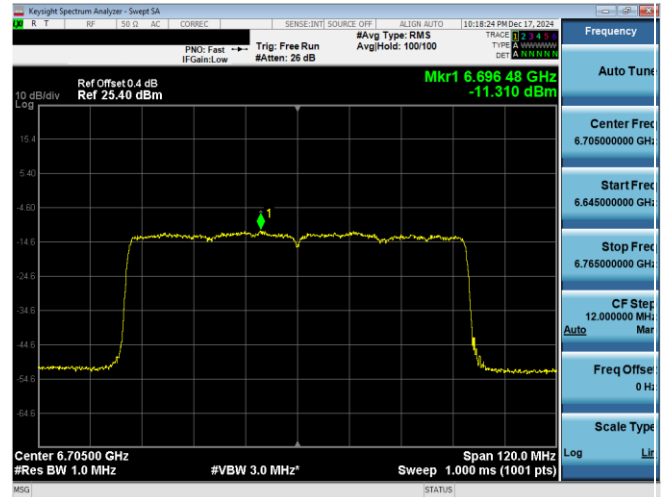
FCC ID: BCGA3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 48 of 148

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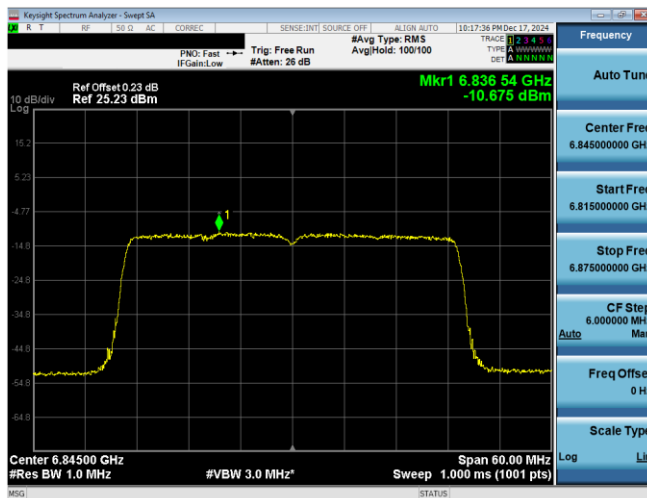
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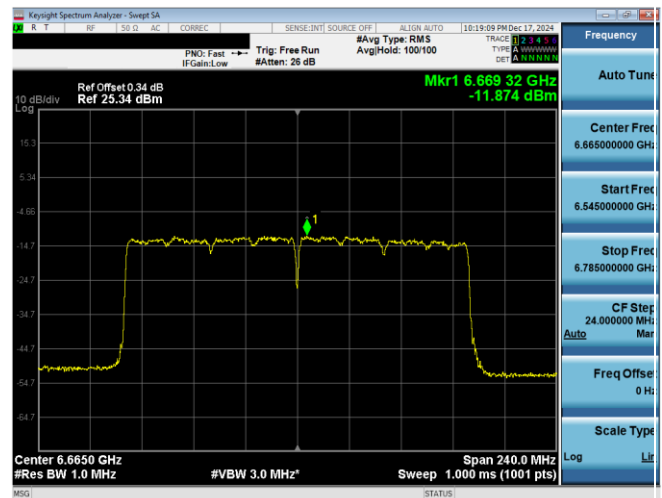
Plot 7-45. PSD Plot Antenna WF8 (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 117)



Plot 7-47. PSD Plot Antenna WF8 (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 151)



Plot 7-46. PSD Plot Antenna WF8 (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



Plot 7-48. PSD Plot Antenna WF8 (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)

FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 49 of 148

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7.4.2 Antenna WF7a Power Spectral Density Measurements – VLP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6275	65	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-10.30	3.50	-6.80	-5	-1.80
	6275	65	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-10.44	3.50	-6.94	-5	-1.94
	6335	77	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-10.37	3.50	-6.87	-5	-1.87
	6335	77	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-10.28	3.50	-6.78	-5	-1.78
	6415	93	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-10.94	3.50	-7.44	-5	-2.44
	6415	93	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-11.44	3.50	-7.94	-5	-2.94
	6125	35	ax (40MHz)	242	61	121.9/143.4 (MCS11)	-11.09	3.50	-7.59	-5	-2.59
	6125	35	ax (40MHz)	242	62	121.9/143.4 (MCS11)	-11.06	3.50	-7.56	-5	-2.56
	6245	59	ax (40MHz)	242	61	121.9/143.4 (MCS11)	-10.73	3.50	-7.23	-5	-2.23
	6245	59	ax (40MHz)	242	62	121.9/143.4 (MCS11)	-10.71	3.50	-7.21	-5	-2.21
	6405	91	ax (40MHz)	106	53	53.1/62.5 (MCS11)	-11.10	3.50	-7.60	-5	-2.60
	6405	91	ax (40MHz)	106	54	53.1/62.5 (MCS11)	-10.99	3.50	-7.49	-5	-2.49
	6405	91	ax (40MHz)	106	56	53.1/62.5 (MCS11)	-11.60	3.50	-8.10	-5	-3.10
	6145	39	ax (80MHz)	242	61	121.9/143.4 (MCS11)	-11.12	3.50	-7.62	-5	-2.62
	6145	39	ax (80MHz)	242	62	121.9/143.4 (MCS11)	-11.14	3.50	-7.64	-5	-2.64
	6145	39	ax (80MHz)	242	64	121.9/143.4 (MCS11)	-10.41	3.50	-6.91	-5	-1.91
	6225	55	ax (80MHz)	242	61	121.9/143.4 (MCS11)	-11.02	3.50	-7.52	-5	-2.52
	6225	55	ax (80MHz)	242	62	121.9/143.4 (MCS11)	-11.16	3.50	-7.66	-5	-2.66
	6225	55	ax (80MHz)	242	64	121.9/143.4 (MCS11)	-10.84	3.50	-7.34	-5	-2.34
	6385	87	ax (80MHz)	106	53	53.1/62.5 (MCS11)	-11.26	3.50	-7.76	-5	-2.76
	6385	87	ax (80MHz)	106	56	53.1/62.5 (MCS11)	-11.30	3.50	-7.80	-5	-2.80
	6385	87	ax (80MHz)	106	60	53.1/62.5 (MCS11)	-11.58	3.50	-8.08	-5	-3.08
	6185	47 (L)	ax (160MHz)	242	61	121.9/143.4 (MCS11)	-11.32	3.50	-7.82	-5	-2.82
	6185		ax (160MHz)	242	64	121.9/143.4 (MCS11)	-11.20	3.50	-7.70	-5	-2.70
	6185	47 (U)	ax (160MHz)	242	64	121.9/143.4 (MCS11)	-10.78	3.50	-7.28	-5	-2.28
	6345	79 (L)	ax (160MHz)	106	53	53.1/62.5 (MCS11)	-10.76	3.50	-7.26	-5	-2.26
	6345		ax (160MHz)	106	60	53.1/62.5 (MCS11)	-11.36	3.50	-7.86	-5	-2.86
	6345	79 (U)	ax (160MHz)	106	60	53.1/62.5 (MCS11)	-11.96	3.50	-8.46	-5	-3.46
Band 7	6535	117	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-10.34	3.30	-7.04	-5	-2.04
	6535	117	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-10.84	3.30	-7.54	-5	-2.54
	6695	149	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-10.21	3.30	-6.91	-5	-1.91
	6695	149	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-10.21	3.30	-6.91	-5	-1.91
	6855	181	ax (20MHz)	106	53	53.1/62.5 (MCS11)	-11.33	3.30	-8.03	-5	-3.03
	6855	181	ax (20MHz)	106	54	53.1/62.5 (MCS11)	-11.66	3.30	-8.36	-5	-3.36
	6565	123	ax (40MHz)	106	53	53.1/62.5 (MCS11)	-10.86	3.30	-7.56	-5	-2.56
	6565	123	ax (40MHz)	106	54	53.1/62.5 (MCS11)	-10.76	3.30	-7.46	-5	-2.46
	6565	123	ax (40MHz)	106	56	53.1/62.5 (MCS11)	-10.99	3.30	-7.69	-5	-2.69
	6725	155	ax (40MHz)	106	53	53.1/62.5 (MCS11)	-10.85	3.30	-7.55	-5	-2.55
	6725	155	ax (40MHz)	106	54	53.1/62.5 (MCS11)	-10.88	3.30	-7.58	-5	-2.58
	6725	155	ax (40MHz)	106	56	53.1/62.5 (MCS11)	-10.69	3.30	-7.39	-5	-2.39
	6845	179	ax (40MHz)	106	53	53.1/62.5 (MCS11)	-10.99	3.30	-7.69	-5	-2.69
	6845	179	ax (40MHz)	106	54	53.1/62.5 (MCS11)	-10.88	3.30	-7.58	-5	-2.58
	6845	179	ax (40MHz)	106	56	53.1/62.5 (MCS11)	-10.87	3.30	-7.57	-5	-2.57
	6625	135	ax (80MHz)	106	53	53.1/62.5 (MCS11)	-10.33	3.30	-7.03	-5	-2.03
	6625	135	ax (80MHz)	106	56	53.1/62.5 (MCS11)	-11.00	3.30	-7.70	-5	-2.70
	6625	135	ax (80MHz)	106	60	53.1/62.5 (MCS11)	-10.70	3.30	-7.40	-5	-2.40
	6705	151	ax (80MHz)	106	53	53.1/62.5 (MCS11)	-10.27	3.30	-6.97	-5	-1.97
	6705	151	ax (80MHz)	106	56	53.1/62.5 (MCS11)	-10.68	3.30	-7.38	-5	-2.38
	6705	151	ax (80MHz)	106	60	53.1/62.5 (MCS11)	-10.44	3.30	-7.14	-5	-2.14
	6785	167	ax (80MHz)	106	53	53.1/62.5 (MCS11)	-11.42	3.30	-8.12	-5	-3.12
	6785	167	ax (80MHz)	106	56	53.1/62.5 (MCS11)	-12.06	3.30	-8.76	-5	-3.76
	6785	167	ax (80MHz)	106	60	53.1/62.5 (MCS11)	-10.94	3.30	-7.64	-5	-2.64
	6665	143 (L)	ax (160MHz)	106	53	53.1/62.5 (MCS11)	-11.12	3.30	-7.82	-5	-2.82
	6665		ax (160MHz)	106	60	53.1/62.5 (MCS11)	-11.44	3.30	-8.14	-5	-3.14
	6665	143 (U)	ax (160MHz)	106	60	53.1/62.5 (MCS11)	-10.98	3.30	-7.68	-5	-2.68

Table 7-39. Power Spectral Density Measurements Antenna WF7a (RU106/242)

FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 50 of 148

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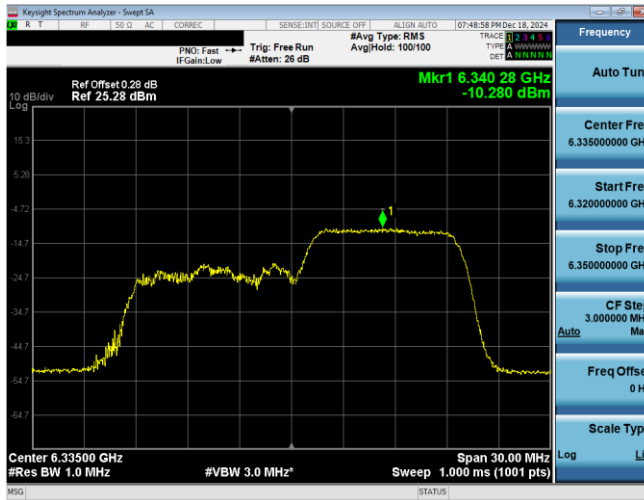
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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-11.58	3.50	-8.08	-5	-3.08
	6255	61	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-11.12	3.50	-7.62	-5	-2.62
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-10.47	3.50	-6.97	-5	-1.97
	6125	35	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-11.63	3.50	-8.13	-5	-3.13
	6245	59	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-11.77	3.50	-8.27	-5	-3.27
	6405	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-10.78	3.50	-7.28	-5	-2.28
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-11.66	3.50	-8.16	-5	-3.16
	6225	55	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-11.81	3.50	-8.31	-5	-3.31
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-10.39	3.50	-6.89	-5	-1.89
Band 7	6185	47	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-12.06	3.50	-8.56	-5	-3.56
	6345	79	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-11.16	3.50	-7.66	-5	-2.66
	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-11.17	3.30	-7.87	-5	-2.87
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-9.72	3.30	-6.42	-5	-1.42
	6855	181	ax (20MHz)	242	61	121.9/143.4 (MCS11)	-11.17	3.30	-7.87	-5	-2.87
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-10.30	3.30	-7.00	-5	-2.00
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-10.45	3.30	-7.15	-5	-2.15
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-9.99	3.30	-6.69	-5	-1.69
	6625	135	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-11.54	3.30	-8.24	-5	-3.24
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-10.90	3.30	-7.60	-5	-2.60
	6785	167	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-10.87	3.30	-7.57	-5	-2.57
	6665	143	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-11.18	3.30	-7.88	-5	-2.88

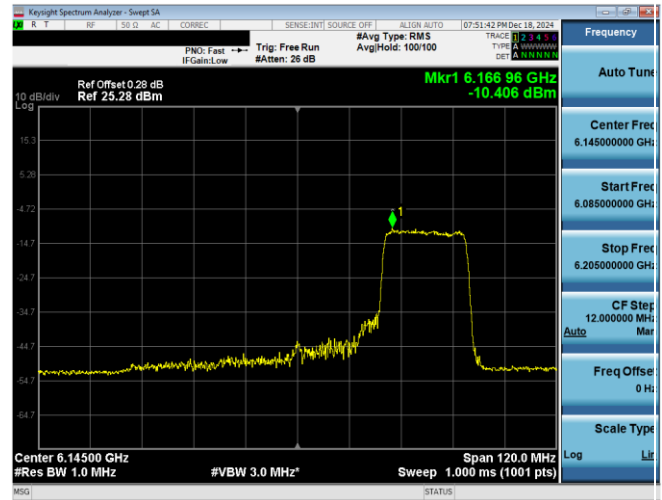
Table 7-40. Power Spectral Density Measurements Antenna WF7a (Fully – Loaded RU)

FCC ID: BCGA3266	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 51 of 148

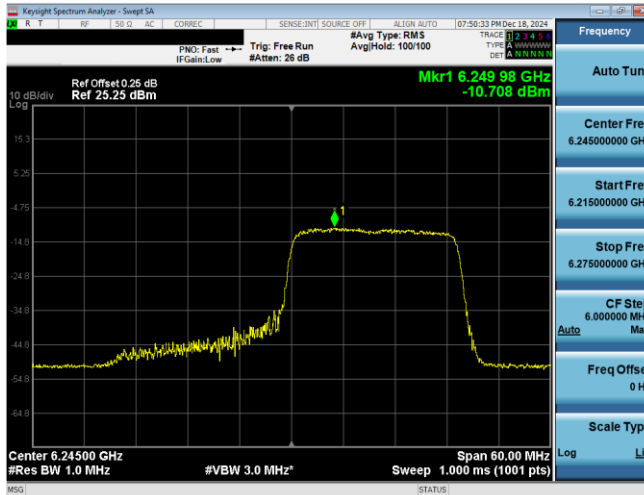
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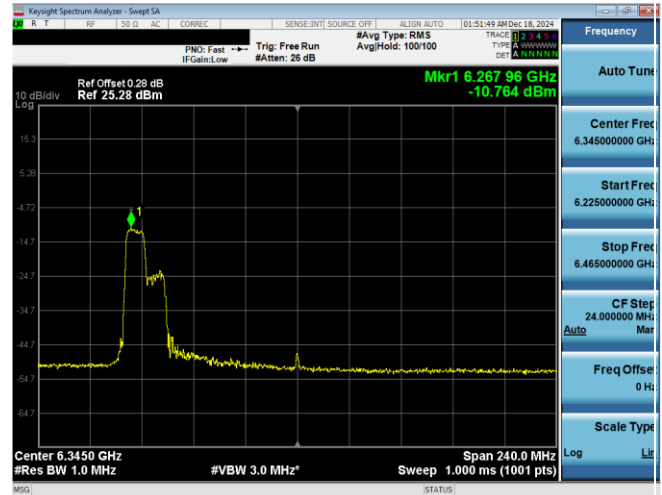
Plot 7-49. PSD Plot Antenna WF7a (20MHz 802.11ax RU106 (UNII Band 5) – Ch. 77)



Plot 7-51. PSD Plot Antenna WF7a (80MHz 802.11ax RU242 (UNII Band 5) – Ch. 39)



Plot 7-50. PSD Plot Antenna WF7a (40MHz 802.11ax RU242 (UNII Band 5) – Ch. 59)

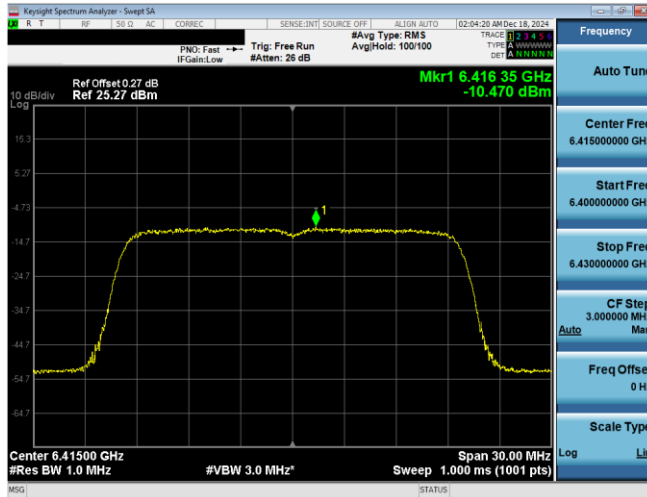


Plot 7-52. PSD Plot Antenna WF7a (160MHz 802.11ax RU106 (UNII Band 5) – Ch. 79)

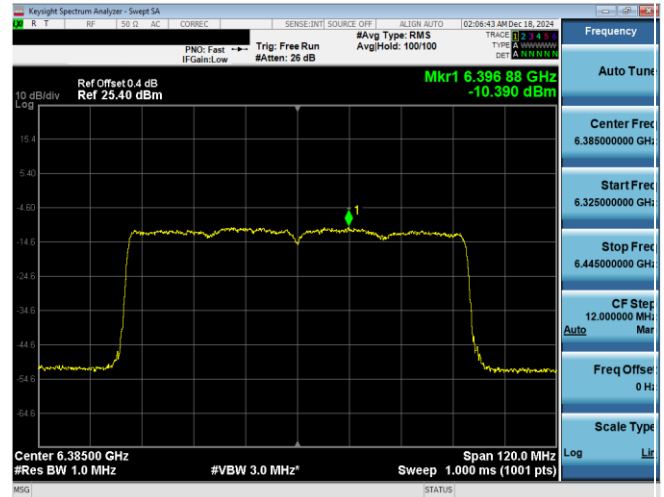
FCC ID: BCGA3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 52 of 148

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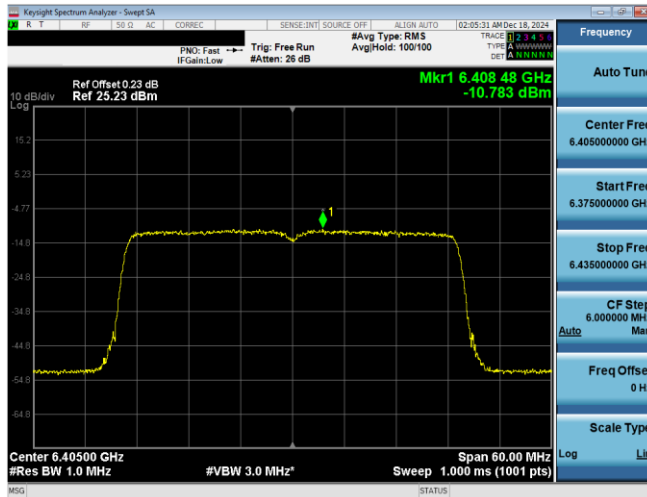
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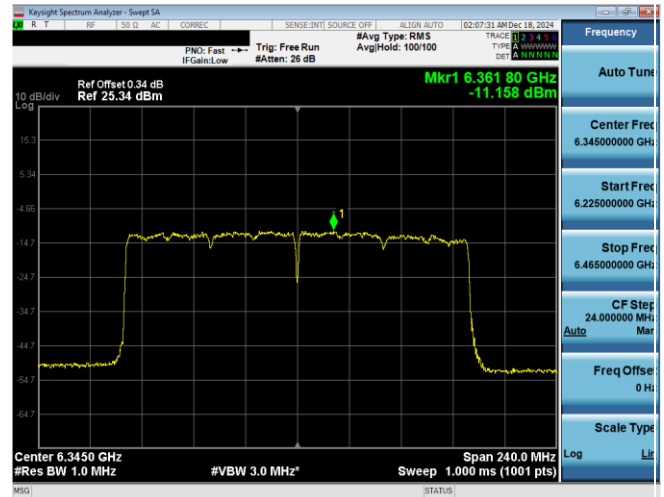
Plot 7-53. PSD Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 93)



Plot 7-55. PSD Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



Plot 7-54. PSD Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 91)

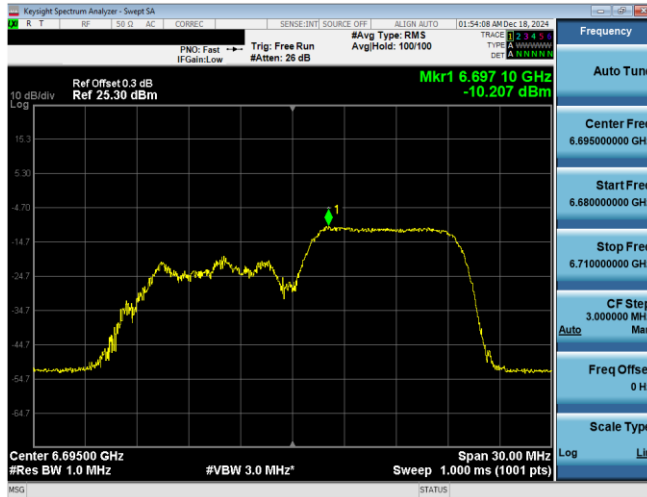


Plot 7-56. PSD Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)

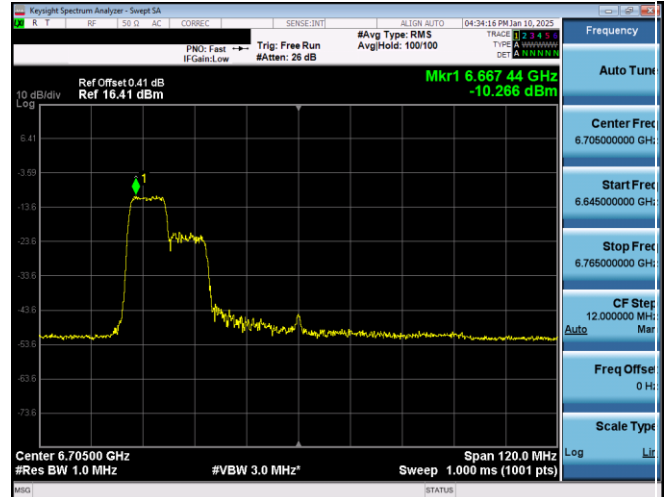
FCC ID: BCGA3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 53 of 148

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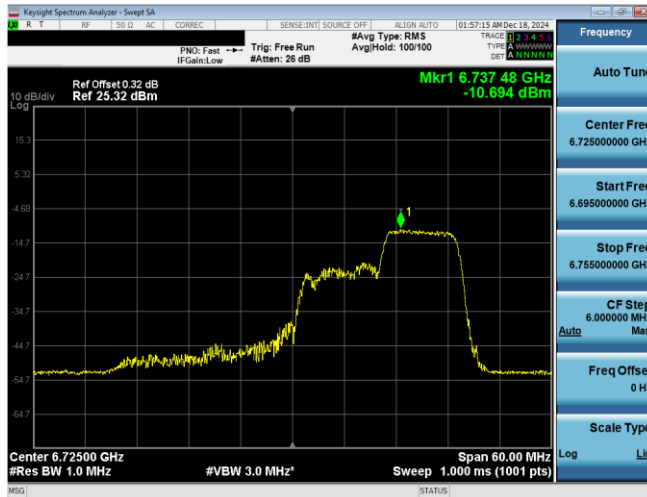
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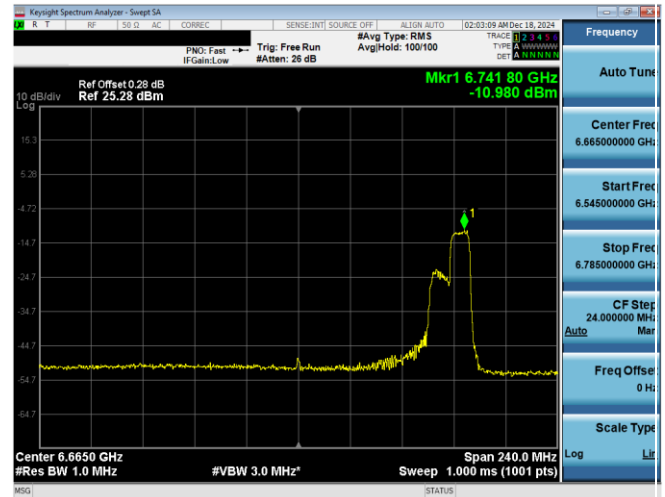
Plot 7-57. PSD Plot Antenna WF7a (20MHz 802.11ax RU106 (UNII Band 7) - Ch. 149)



Plot 7-59. PSD Plot Antenna WF7a (80MHz 802.11ax RU106 (UNII Band 7) - Ch. 151)



Plot 7-58. PSD Plot Antenna WF7a (40MHz 802.11ax RU106 (UNII Band 7) - Ch. 155)

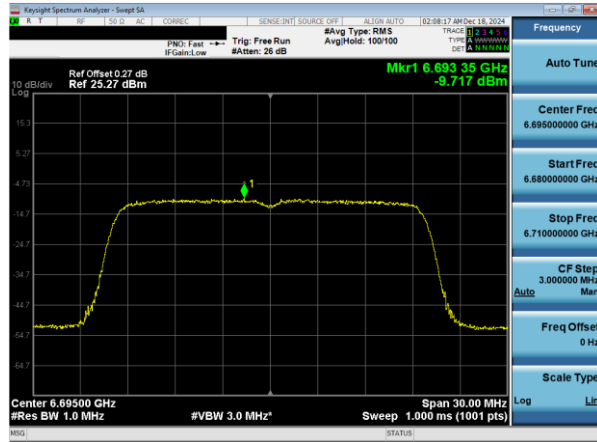


Plot 7-60. PSD Plot Antenna WF7a (160MHz 802.11ax RU106 (UNII Band 7) - Ch. 143)

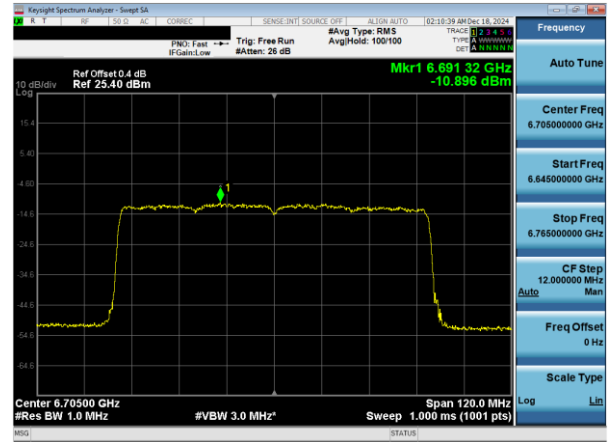
FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 54 of 148

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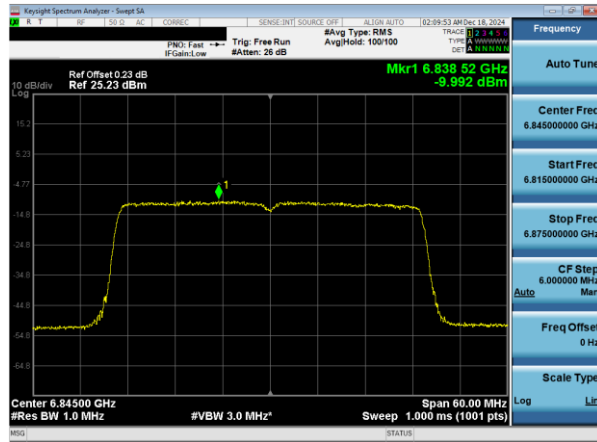
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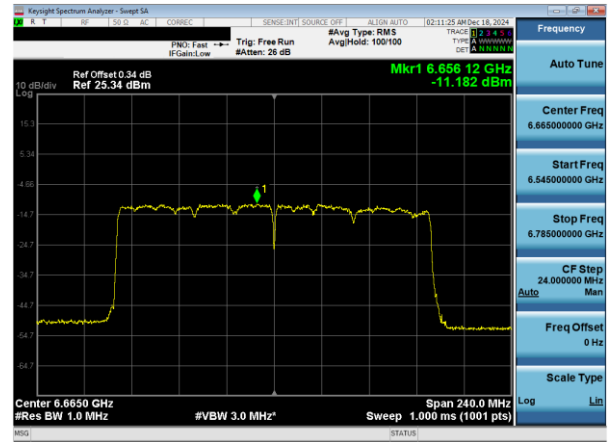
Plot 7-61. PSD Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 149)



Plot 7-63. PSD Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 151)



Plot 7-62. PSD Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



Plot 7-64. PSD Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)

FCC ID: BCGA3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 55 of 148

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7.4.3 SDM Power Spectral Density Measurements – VLP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Mode	Data Rate [Mbps]	Antenna 8 Power Density [dBm/MHz]	Antenna 7a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6125	35	ax (40MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.96	-13.69	-10.81	3.92	-6.89	-5	-1.89
	6125	35	ax (40MHz)	242	62	SDM	243.8/286.8 (MCS11)	-14.04	-13.74	-10.88	3.92	-6.96	-5	-1.96
	6245	59	ax (40MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.88	-13.41	-10.63	3.92	-6.71	-5	-1.71
	6245	59	ax (40MHz)	242	62	SDM	243.8/286.8 (MCS11)	-14.00	-13.57	-10.77	3.92	-6.85	-5	-1.85
	6405	91	ax (40MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.26	-13.30	-10.27	3.92	-6.35	-5	-1.35
	6405	91	ax (40MHz)	242	62	SDM	243.8/286.8 (MCS11)	-13.37	-13.38	-10.36	3.92	-6.44	-5	-1.44
	6145	39	ax (80MHz)	242	61	SDM	243.8/286.8 (MCS11)	-14.64	-14.38	-11.50	3.92	-7.58	-5	-2.58
	6145	39	ax (80MHz)	242	62	SDM	243.8/286.8 (MCS11)	-14.94	-14.61	-11.76	3.92	-7.84	-5	-2.84
	6145	39	ax (80MHz)	242	64	SDM	243.8/286.8 (MCS11)	-14.46	-14.07	-11.25	3.92	-7.33	-5	-2.33
	6225	55	ax (80MHz)	242	61	SDM	243.8/286.8 (MCS11)	-14.37	-13.98	-11.16	3.92	-7.24	-5	-2.24
	6225	55	ax (80MHz)	242	62	SDM	243.8/286.8 (MCS11)	-15.14	-14.58	-11.84	3.92	-7.92	-5	-2.92
	6225	55	ax (80MHz)	242	64	SDM	243.8/286.8 (MCS11)	-15.19	-14.16	-11.64	3.92	-7.72	-5	-2.72
	6385	87	ax (80MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.78	-13.22	-10.48	3.92	-6.56	-5	-1.56
	6385	87	ax (80MHz)	242	62	SDM	243.8/286.8 (MCS11)	-14.51	-13.52	-10.97	3.92	-7.05	-5	-2.05
	6385	87	ax (80MHz)	242	64	SDM	243.8/286.8 (MCS11)	-14.45	-13.19	-10.77	3.92	-6.85	-5	-1.85
	6185	47 (L)	ax (160MHz)	242	61	SDM	243.8/286.8 (MCS11)	-14.21	-14.53	-11.35	3.92	-7.43	-5	-2.43
	6185		ax (160MHz)	242	64	SDM	243.8/286.8 (MCS11)	-14.32	-13.67	-10.97	3.92	-7.06	-5	-2.06
	6185	47 (U)	ax (160MHz)	242	64	SDM	243.8/286.8 (MCS11)	-13.42	-13.24	-10.32	3.92	-6.40	-5	-1.40
	6345	79 (L)	ax (160MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.59	-13.63	-10.60	3.92	-6.68	-5	-1.68
	6345		ax (160MHz)	242	64	SDM	243.8/286.8 (MCS11)	-13.66	-13.25	-10.44	3.92	-6.52	-5	-1.52
	6345	79 (U)	ax (160MHz)	242	64	SDM	243.8/286.8 (MCS11)	-13.57	-12.66	-10.08	3.92	-6.16	-5	-1.16
Band 7	6565	123	ax (40MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.40	-13.14	-10.25	2.74	-7.51	-5	-2.51
	6565	123	ax (40MHz)	242	62	SDM	243.8/286.8 (MCS11)	-12.77	-13.10	-9.92	2.74	-7.18	-5	-2.18
	6725	155	ax (40MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.55	-13.07	-10.30	2.74	-7.55	-5	-2.55
	6725	155	ax (40MHz)	242	62	SDM	243.8/286.8 (MCS11)	-13.32	-12.82	-10.05	2.74	-7.31	-5	-2.31
	6845	179	ax (40MHz)	242	61	SDM	243.8/286.8 (MCS11)	-12.94	-12.84	-9.88	2.74	-7.14	-5	-2.14
	6845	179	ax (40MHz)	242	62	SDM	243.8/286.8 (MCS11)	-13.68	-12.43	-10.00	2.74	-7.26	-5	-2.26
	6625	135	ax (80MHz)	242	61	SDM	243.8/286.8 (MCS11)	-14.51	-13.62	-11.03	2.74	-8.29	-5	-3.29
	6625	135	ax (80MHz)	242	62	SDM	243.8/286.8 (MCS11)	-14.09	-14.15	-11.11	2.74	-8.37	-5	-3.37
	6625	135	ax (80MHz)	242	64	SDM	243.8/286.8 (MCS11)	-14.05	-13.08	-10.53	2.74	-7.79	-5	-2.79
	6705	151	ax (80MHz)	242	61	SDM	243.8/286.8 (MCS11)	-14.08	-13.12	-10.56	2.74	-7.82	-5	-2.82
	6705	151	ax (80MHz)	242	62	SDM	243.8/286.8 (MCS11)	-14.09	-13.86	-10.96	2.74	-8.22	-5	-3.22
	6705	151	ax (80MHz)	242	64	SDM	243.8/286.8 (MCS11)	-13.84	-13.37	-10.59	2.74	-7.85	-5	-2.85
	6785	167	ax (80MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.35	-13.44	-10.39	2.74	-7.64	-5	-2.64
	6785	167	ax (80MHz)	242	62	SDM	243.8/286.8 (MCS11)	-14.02	-13.18	-10.57	2.74	-7.83	-5	-2.83
	6785	167	ax (80MHz)	242	64	SDM	243.8/286.8 (MCS11)	-13.50	-13.32	-10.40	2.74	-7.66	-5	-2.66
	6665	143 (L)	ax (160MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.43	-13.49	-10.45	2.74	-7.71	-5	-2.71
	6665		ax (160MHz)	242	64	SDM	243.8/286.8 (MCS11)	-14.02	-13.16	-10.56	2.74	-7.82	-5	-2.82
	6665	143 (U)	ax (160MHz)	242	64	SDM	243.8/286.8 (MCS11)	-13.29	-12.87	-10.06	2.74	-7.32	-5	-2.32

Table 7-41. Power Spectral Density Measurements SDM (Partially-Loaded RU)

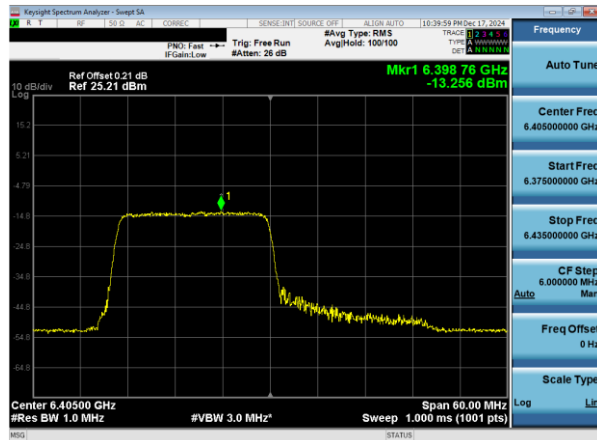
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Mode	Data Rate [Mbps]	Antenna 8 Power Density [dBm/MHz]	Antenna 7a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	-14.75	-14.34	-11.53	3.92	-7.61	-5	-2.61
	6255	61	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.62	-14.50	-11.03	3.92	-7.11	-5	-2.11
	6415	93	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.20	-13.51	-10.34	3.92	-6.43	-5	-1.43
	6125	35	ax (40MHz)	484	65	SDM	487.5/573.5 (MCS11)	-13.64	-14.52	-11.05	3.92	-7.13	-5	-2.13
	6245	59	ax (40MHz)	484	65	SDM	487.5/573.5 (MCS11)	-13.44	-13.67	-10.54	3.92	-6.62	-5	-1.62
	6405	91	ax (40MHz)	484	65	SDM	487.5/573.5 (MCS11)	-12.85	-13.35	-10.08	3.92	-6.16	-5	-1.16
	6145	39	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	-14.23	-13.65	-10.92	3.92	-7.00	-5	-2.00
	6225	55	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	-14.24	-13.90	-11.06	3.92	-7.14	-5	-2.14
	6385	87	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	-13.72	-13.22	-10.46	3.92	-6.54	-5	-1.54
	6185	47	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	-14.03	-13.96	-10.98	3.92	-7.06	-5	-2.06
	6345	79	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	-14.01	-13.53	-10.75	3.92	-6.83	-5	-1.83
	6535	117	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	-12.87	-13.20	-10.02	2.74	-7.28	-5	-2.28
Band 7	6695	149	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	-12.86	-12.09	-9.45	2.74	-6.71	-5	-1.71
	6855	181	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	-13.29	-13.31	-10.29	2.74	-7.55	-5	-2.55
	6565	123	ax (40MHz)	484	65	SDM	487.5/573.5 (MCS11)	-12.94	-13.20	-10.06	2.74	-7.31	-5	-2.31
	6725	155	ax (40MHz)	484	65	SDM	487.5/573.5 (MCS11)	-12.92	-12.92	-9.91	2.74	-7.17	-5	-2.17
	6845	179	ax (40MHz)	484	65	SDM	487.5/573.5 (MCS11)	-13.01	-12.83	-9.91	2.74	-7.17	-5	-2.17
	6625	135	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	-14.02	-13.88	-10.94	2.74	-8.20	-5	-3.20
	6705	151	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	-13.44	-13.24	-10.33	2.74	-7.58	-5	-2.58
	6785	167	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	-13.99	-13.35	-10.64	2.74	-7.90	-5	-2.90
	6665	143	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	-13.91	-13.21	-10.54	2.74	-7.79	-5	-2.79

Table 7-42. Power Spectral Density Measurements SDM (Fully-loaded RU)

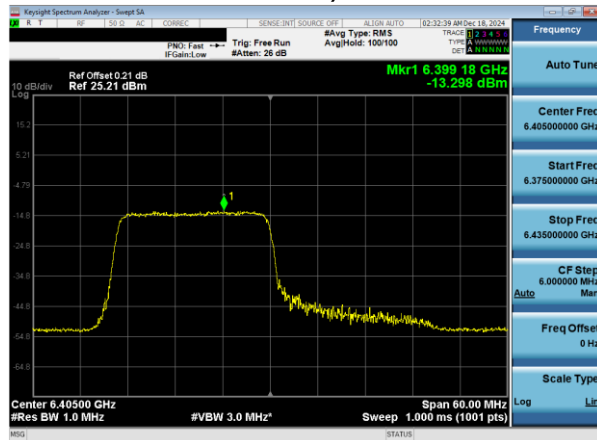
FCC ID: BCGA3266		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 56 of 148

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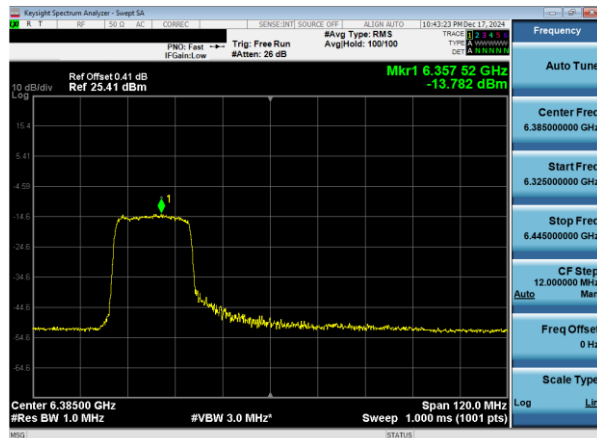
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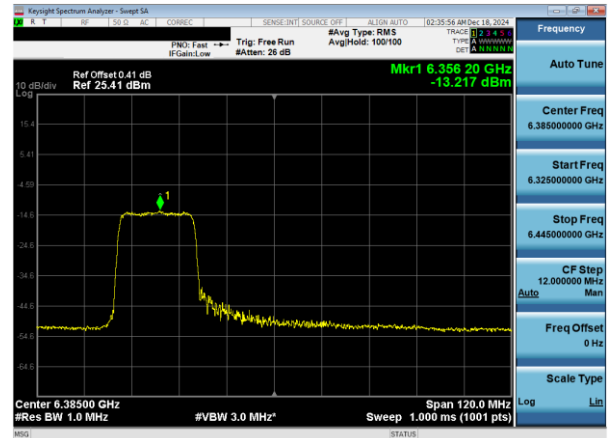
Plot 7-65. PSD Plot Antenna WF8 (40MHz 802.11ax RU242 (UNII Band 5) – Ch. 91)



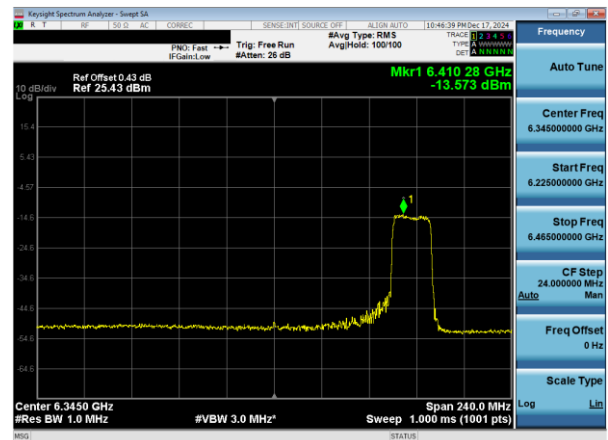
Plot 7-66. PSD Plot Antenna WF7a (40MHz 802.11ax RU242 (UNII Band 5) – Ch. 91)



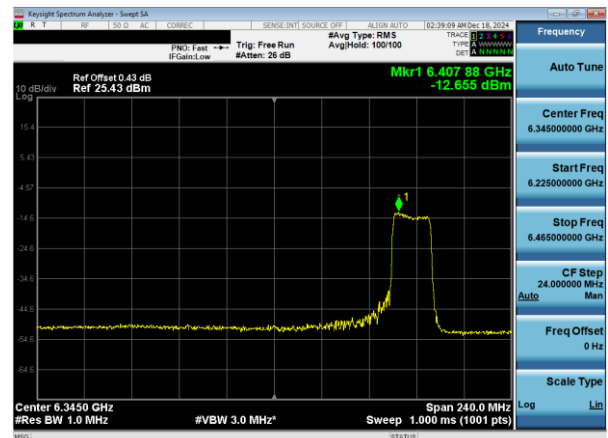
Plot 7-67. PSD Plot Antenna WF8 (80MHz 802.11ax RU242 (UNII Band 5) – Ch. 87)



Plot 7-68. PSD Plot Antenna WF7a (80MHz 802.11ax RU106 (UNII Band 5) – Ch. 87)



Plot 7-69. PSD Plot Antenna WF8 (160MHz 802.11ax RU242 (UNII Band 5) – Ch. 79)



Plot 7-70. PSD Plot Antenna WF7a (160MHz 802.11ax RU242 (UNII Band 5) – Ch. 79)

FCC ID: BCGA3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210072-15-R2.BCG	Test Dates: 10/25/2024 - 1/13/2025	EUT Type: Tablet Device	Page 57 of 148

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