

**MEASUREMENT REPORT****FCC PART 15.407 / ISSED RSS-247 UNII 802.11ax (OFDMA)****Applicant Name:**

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

Date of Testing:

10/25/2024 - 1/14/2025

Test Report Issue Date:

1/25/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2410210076-10-R1.BCG

FCC ID:	BCGA3354
IC:	579C-A3354
APPLICANT:	Apple Inc.

Application Type:

Certification

Model/HVIN:

A3354

EUT Type:

Tablet Device

Frequency Range:

5180 – 5825MHz

Modulation Type:

OFDMA

FCC Classification:

Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-247 Issue 3

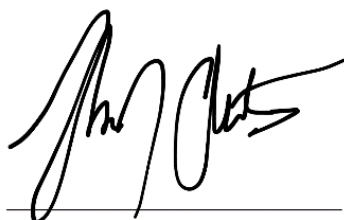
Test Procedure(s):

ANSI C63.10-2020, KDB 789033 D02 v02r01,
KDB 662911 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2020 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2410210076-10-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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




RJ Ortanez

Executive Vice President




CERT #2041.02

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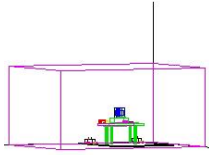
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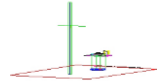
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MEASUREMENT REPORT




UNII Band	Channel Bandwidth (MHz)	Tx Frequency (MHz)	SISO				CDD/SDM	
			Antenna WF7a		Antenna WF8		Summed	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	5180 - 5240	72.611	18.61	76.208	18.82	122.180	20.87
2A		5260 - 5320	71.121	18.52	76.913	18.86	119.674	20.78
2C		5500 - 5720	79.250	18.99	78.886	18.97	122.462	20.88
3		5745 - 5825	77.804	18.91	77.983	18.92	155.239	21.91
1	40	5190 - 5230	71.614	18.55	78.343	18.94	123.595	20.92
2A		5270 - 5310	70.469	18.48	74.302	18.71	113.763	20.56
2C		5510 - 5710	73.961	18.69	79.433	19.00	147.571	21.69
3		5755 - 5795	79.068	18.98	79.433	19.00	150.661	21.78
1	80	5210	29.923	14.76	30.479	14.84	53.951	17.32
2A		5290	34.514	15.38	34.119	15.33	49.317	16.93
2C		5530 - 5690	74.645	18.73	77.804	18.91	146.555	21.66
3		5775	43.451	16.38	43.853	16.42	81.283	19.10

FCC EUT Overview

UNII Band	Channel Bandwidth (MHz)	Tx Frequency (MHz)	SISO				CDD/SDM	
			Antenna WF7a		Antenna WF8		Summed	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	5180 - 5240	34.674	15.40	35.156	15.46	38.019	15.80
2A		5260 - 5320	71.121	18.52	76.913	18.86	119.674	20.78
2C		5500 - 5720	79.250	18.99	78.886	18.97	120.781	20.82
3		5745 - 5825	77.804	18.91	77.983	18.92	155.239	21.91
1	40	5190 - 5230	51.168	17.09	55.590	17.45	59.566	17.75
2A		5270 - 5310	70.469	18.48	74.302	18.71	113.763	20.56
2C		5510 - 5710	72.611	18.61	76.033	18.81	147.571	21.69
3		5755 - 5795	79.068	18.98	79.433	19.00	150.661	21.78
1	80	5210	30.903	14.90	30.200	14.80	54.828	17.39
2A		5290	34.514	15.38	34.119	15.33	49.317	16.93
2C		5530 - 5690	74.645	18.73	77.804	18.91	146.555	21.66
3		5775	43.451	16.38	43.853	16.42	81.283	19.10

ISED EUT Overview

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.


1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3354** and **IC: 579C-A3354**. The test data contained in this report pertains only to the emissions due to the EUT's UNII 802.11ax - RU transmitter.

Test Device Serial No.: LCM6C3J3GN, C5G6DF4TJX, X7WY7H45F6, J0V7G4XLJ6, H9HHAD0006G0000VYN

2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE1M, LE2M).

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


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

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

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

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

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

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Notes:

1. TDWR channels are not supported for ISED.
2. 5GHz NII operation is possible in 20MHz, 40MHz, 80MHz, and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of KDB 789033 D02 v02r01 and ANSI C63.10-2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Measured Duty Cycles				
802.11 Mode/Band		Duty Cycle [%]		
		Antenna WF7a	Antenna WF8	CDD/SDM
5GHz	ax(RU) 26T HE20	98.81	98.71	98.52
	ax(RU) 242T HE20	98.17	98.05	98.05
	ax(RU) 26T HE40	99.06	98.71	98.79
	ax(RU) 484T HE40	96.46	96.49	96.49
	ax(RU) 26T HE80	98.71	98.65	98.6
	ax(RU) 996T HE80	94.08	94.18	93.18

Table 2-4. Measured Duty Cycles

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

3. The device employs CDD/SDM technology. Below are the possible configurations.

WiFi Configurations		SISO		CDD		SDM		STBC	
		Antenna WF7a	Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a	Antenna WF8	Antenna WF7a	Antenna WF8
5GHz	11ax (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-5. WIFI Configurations


✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

CDD = Cyclic Delay Diversity – 2Tx Function

SDM = Spatial Diversity Multiplexing – CDD/SDM function

STBC = Space-Time Block Coding – 2Tx Function

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4. 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		
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	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

Table 2-6. Supported Data Rates

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

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	WLAN	WIFI 5GHz
		BDR, EDR, LE1/2M	802.11 b/g/n/ax	802.11 a/n/ac/ax
Ant WF8	Config 1	✓	✗	✓
Ant WF8	Config 2	✗	✓	✓
*Ant WF8	Config 3	✗	✓	✗
*Ant W7a		✗	✗	✓

Table 2-7. Simultaneous Transmission Configurations


✓ = Support; ✗ = Not Support

* = SDB enabled

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 GHz on separate antenna.

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2.3 Antenna Description

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


Frequency [GHz]	Antenna Gain (dBi)	
	Antenna WF7a	Antenna WF8
5.150 – 5.250	4.1	3.4
5.250 – 5.350	4.8	4.6
5.470 – 5.725	4.6	5.1
5.725 – 5.850	4.6	4.9

Table 2-8. Highest Antenna Gain

2.4 Test Support Equipment

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

Table 2-9. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020 and KDB 789033 D02 v02r01. ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, and 7.5 for antenna port conducted emissions test setups.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel.

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

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

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

802.11ax-RU HE20/40/80 2TX CDD/SDM mode test data provided in this report covers 802.11ax-RU HE20/40/80 2TX STBC mode.


For 802.11a/n/ac/ax-SU test results, see separate UNII report, 1C2410210076-09.BCG.

2.6 Software and Firmware

The test was conducted with firmware version 22D8 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None


3.2 AC Line Conducted Emissions

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

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

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

Line conducted emissions test results are shown in Section 7.8. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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3.3 Radiated Emissions

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


Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

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

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

3.4 Environmental Conditions

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

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4.0 ANTENNA REQUIREMENTS


Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The EUT complies with the requirement of §15.203.


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5.0 MEASUREMENT UNCERTAINTY

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

Contribution	Expanded Uncertainty (\pm dB)
Conducted Bench Top Measurements	2.07
Line Conducted Disturbance	1.91
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz - 1GHz)	4.85
Radiated Disturbance (1 - 18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

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6.0 TEST EQUIPMENT CALIBRATION DATA


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

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

Table 6-1. Test Equipment List

Note:

- 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: BCGA3354
IC: 579C-A3354
FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407	RSS-Gen [6.7]	26dB Bandwidth	N/A	CONDUCTED	N/A	Section 7.2
15.407(e)	RSS-Gen [6.7]	6dB Bandwidth	>500kHz(5725-5850MHz)		PASS	Section 7.3
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2, 7.3
15.407 (a.1.iv), (a.2), (a.3.i)	RSS-247 [6.2]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.4
15.407 (a.1.iv), (a.2), (a.3.i)	RSS-247 [6.2]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.5
15.407(h)	RSS-247 [6.3]	Dynamic Frequency Selection	See DFS Test Report	RADIATED	PASS	See DFS Test Report (1C241021007 6-08.BCG)
15.407(b.1), (b.2), (b.3), (b.4)	RSS-247 [6.2]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [6.2])		PASS	Section 7.6
15.205, 15.407(b.1), (b.2), (b.3), (b.4)	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.6, 7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	AC LINE CONDUCTED	PASS	Section 7.8

Table 7-1. Summary of Test Results

Notes:

- All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 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.
- 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.
- 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.
- 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.
- Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
- 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
- Only one RU index could be selected at a time so no contiguous or non-contiguous RU's were considered for testing.

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7.2 26dB & 99% Bandwidth Measurement

\$2.1049; \$15.407; RSS-Gen [6.7]

Test Overview and Limit

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

The 26dB bandwidth is used to determine the conducted power limits, for ISED the 99% OBW is used.

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.

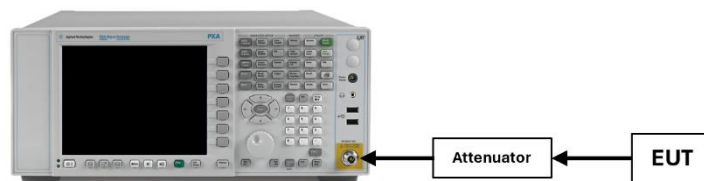



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. All antenna configs were investigated and only the worst case is 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 channel bandwidth plots have been reported.


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7.2.1 Antenna WF7a 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	16.26	17.85
				26	4	12.5/14.7 (MCS11)	16.33	17.40
				26	8	12.5/14.7 (MCS11)	16.32	17.85
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	17.10	18.50
				26	4	12.5/14.7 (MCS11)	15.79	17.31
				26	8	12.5/14.7 (MCS11)	18.37	19.72
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	17.86	19.41
				26	4	12.5/14.7 (MCS11)	12.89	16.29
				26	8	12.5/14.7 (MCS11)	17.61	18.74
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.36	18.62
				26	8	12.5/14.7 (MCS11)	19.47	21.38
				26	17	12.5/14.7 (MCS11)	17.58	18.84
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.42	18.68
				26	8	12.5/14.7 (MCS11)	18.54	19.89
				26	17	12.5/14.7 (MCS11)	17.37	18.41
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	17.84	19.37
				26	18	12.5/14.7 (MCS11)	31.56	32.74
				26	36	12.5/14.7 (MCS11)	17.56	18.93

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


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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]
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	17.99	19.55
				52	38	25/29.4 (MCS11)	16.26	18.03
				52	40	25/29.4 (MCS11)	18.29	20.20
	5280	60	ax (20MHz)	52	37	25/29.4 (MCS11)	18.14	19.85
				52	38	25/29.4 (MCS11)	16.59	18.00
				52	40	25/29.4 (MCS11)	17.48	19.02
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	18.23	20.06
				52	38	25/29.4 (MCS11)	15.71	16.43
				52	40	25/29.4 (MCS11)	17.00	20.07
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	17.11	18.20
				52	40	25/29.4 (MCS11)	19.10	22.15
				52	44	25/29.4 (MCS11)	16.77	17.88
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	17.19	18.93
				52	40	25/29.4 (MCS11)	19.11	22.16
				52	44	25/29.4 (MCS11)	16.73	17.75
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	14.38	15.53
				52	44	25/29.4 (MCS11)	16.71	19.64
				52	52	25/29.4 (MCS11)	17.52	19.10
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	18.23	19.84
				52	38	25/29.4 (MCS11)	15.51	17.68
				52	40	25/29.4 (MCS11)	16.12	17.88
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	17.02	18.81
				52	38	25/29.4 (MCS11)	16.37	18.39
				52	40	25/29.4 (MCS11)	16.07	19.74
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	17.71	19.59
				52	38	25/29.4 (MCS11)	16.77	17.86
				52	40	25/29.4 (MCS11)	17.22	18.70
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	17.42	18.86
				52	40	25/29.4 (MCS11)	18.16	21.35
				52	44	25/29.4 (MCS11)	17.17	18.23
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	17.62	18.58
				52	40	25/29.4 (MCS11)	18.50	21.91
				52	44	25/29.4 (MCS11)	17.02	18.04
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	17.53	18.80
				52	40	25/29.4 (MCS11)	18.08	21.11
				52	44	25/29.4 (MCS11)	17.47	18.66
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	16.35	19.50
				52	44	25/29.4 (MCS11)	18.35	21.19
				52	52	25/29.4 (MCS11)	11.87	13.05
	*5610	122	ax (80MHz)	52	37	25/29.4 (MCS11)	15.14	18.73
				52	44	25/29.4 (MCS11)	18.10	21.82
				52	52	25/29.4 (MCS11)	17.44	19.23
	5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	14.52	15.61
				52	44	25/29.4 (MCS11)	18.08	21.26
				52	52	25/29.4 (MCS11)	16.77	17.86

Table 7-3. Conducted BW Measurements Antenna WF7a (RU52)

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

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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]
Band 1	5180	36	ax (20MHz)	242	61	135/143.4 (MCS11)	19.10	22.34
	5200	40	ax (20MHz)	242	61	135/143.4 (MCS11)	19.06	22.34
	5240	48	ax (20MHz)	242	61	135/143.4 (MCS11)	19.11	21.83
	5190	38	ax (40MHz)	484	65	271/286.8 (MCS11)	37.92	39.88
	5230	46	ax (40MHz)	484	65	271/286.8 (MCS11)	37.94	39.83
	5210	42	ax (80MHz)	996	67	567/600.5 (MCS11)	77.60	80.41
Band 2A	5260	52	ax (20MHz)	242	61	135/143.4 (MCS11)	19.12	22.68
	5280	60	ax (20MHz)	242	61	135/143.4 (MCS11)	19.08	22.88
	5320	64	ax (20MHz)	242	61	135/143.4 (MCS11)	19.08	21.69
	5270	54	ax (40MHz)	484	65	271/286.8 (MCS11)	37.91	39.83
	5310	62	ax (40MHz)	484	65	271/286.8 (MCS11)	37.93	39.85
	5290	58	ax (80MHz)	996	67	567/600.5 (MCS11)	77.62	80.59
Band 2C	5500	100	ax (20MHz)	242	61	135/143.4 (MCS11)	19.08	22.00
	5580	116	ax (20MHz)	242	61	135/143.4 (MCS11)	19.10	22.47
	5720	144	ax (20MHz)	242	61	135/143.4 (MCS11)	19.15	22.11
	5510	102	ax (40MHz)	484	65	271/286.8 (MCS11)	37.94	39.88
	5550	110	ax (40MHz)	484	65	271/286.8 (MCS11)	37.94	39.85
	5710	142	ax (40MHz)	484	65	271/286.8 (MCS11)	37.93	39.69
	5530	106	ax (80MHz)	996	67	567/600.5 (MCS11)	77.49	80.64
	*5610	122	ax (80MHz)	996	67	567/600.5 (MCS11)	77.54	80.67
	5690	138	ax (80MHz)	996	67	567/600.5 (MCS11)	77.46	80.44

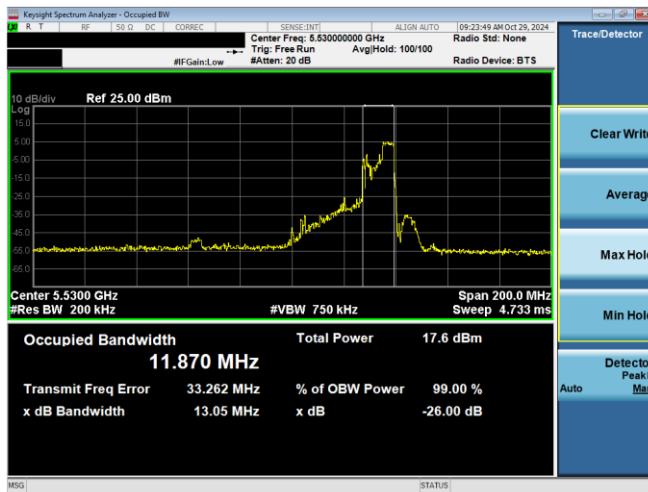
Table 7-4. Conducted BW Measurements Antenna WF7a (Fully – loaded RU)

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

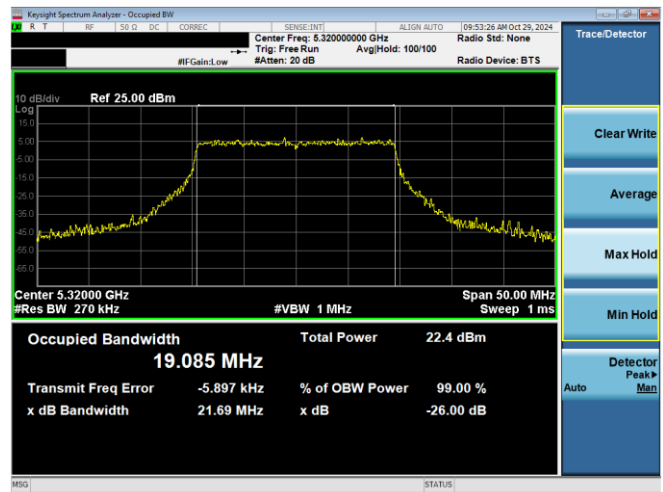
FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 19 of 172

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Plot 7-1. 26dB BW & 99% OBW Antenna WF7a (20MHz BW 11ax Index 52 – RU52 – Ch.106)



Plot 7-2. 26dB BW & 99% OBW Antenna WF7a (20MHz BW 11ax– RU242 – Ch.64)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.2.3 Antenna WF8 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	16.26	17.84
				26	4	12.5/14.7 (MCS11)	15.53	16.76
				26	8	12.5/14.7 (MCS11)	18.00	19.34
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	15.52	19.70
				26	4	12.5/14.7 (MCS11)	16.82	17.67
				26	8	12.5/14.7 (MCS11)	18.26	19.96
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.38	20.20
				26	4	12.5/14.7 (MCS11)	15.24	16.09
				26	8	12.5/14.7 (MCS11)	18.36	19.75
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.26	18.48
				26	8	12.5/14.7 (MCS11)	19.36	21.12
				26	17	12.5/14.7 (MCS11)	17.11	18.82
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	15.85	17.10
				26	8	12.5/14.7 (MCS11)	19.64	21.07
				26	17	12.5/14.7 (MCS11)	17.31	18.44
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	17.90	18.92
				26	18	12.5/14.7 (MCS11)	31.04	32.47
				26	36	12.5/14.7 (MCS11)	17.71	18.95

Table 7-5. Conducted BW Measurements Antenna WF8 (RU26)


FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 21 of 172

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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]
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	18.22	20.13
				52	38	25/29.4 (MCS11)	15.43	17.98
				52	40	25/29.4 (MCS11)	16.22	18.08
	5280	60	ax (20MHz)	52	37	25/29.4 (MCS11)	17.66	20.44
				52	38	25/29.4 (MCS11)	16.85	17.82
				52	40	25/29.4 (MCS11)	13.54	15.12
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	18.21	19.76
				52	38	25/29.4 (MCS11)	15.15	16.25
				52	40	25/29.4 (MCS11)	17.18	19.97
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	17.16	18.82
				52	40	25/29.4 (MCS11)	18.26	20.48
				52	44	25/29.4 (MCS11)	17.55	18.80
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	16.96	18.78
				52	40	25/29.4 (MCS11)	18.80	21.38
				52	44	25/29.4 (MCS11)	16.72	18.34
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	17.42	18.68
				52	44	25/29.4 (MCS11)	18.61	21.10
				52	52	25/29.4 (MCS11)	15.62	16.73
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	15.99	17.51
				52	38	25/29.4 (MCS11)	14.84	16.39
				52	40	25/29.4 (MCS11)	17.48	19.05
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	17.63	19.54
				52	38	25/29.4 (MCS11)	16.62	17.98
				52	40	25/29.4 (MCS11)	16.01	18.21
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	17.84	20.01
				52	38	25/29.4 (MCS11)	16.75	17.93
				52	40	25/29.4 (MCS11)	17.22	18.77
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	17.61	18.69
				52	40	25/29.4 (MCS11)	17.99	20.25
				52	44	25/29.4 (MCS11)	17.08	18.24
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	17.19	18.16
				52	40	25/29.4 (MCS11)	18.68	21.91
				52	44	25/29.4 (MCS11)	17.18	18.35
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	13.79	14.90
				52	40	25/29.4 (MCS11)	18.46	20.86
				52	44	25/29.4 (MCS11)	16.67	17.71
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	15.59	16.88
				52	44	25/29.4 (MCS11)	13.58	16.28
				52	52	25/29.4 (MCS11)	17.64	19.02
	*5610	122	ax (80MHz)	52	37	25/29.4 (MCS11)	17.72	18.79
				52	44	25/29.4 (MCS11)	18.32	21.29
				52	52	25/29.4 (MCS11)	14.31	15.19
	5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	17.88	19.12
				52	44	25/29.4 (MCS11)	18.06	20.90
				52	52	25/29.4 (MCS11)	17.01	19.17

Table 7-6. Conducted BW Measurements Antenna WF8 (RU52)

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

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 22 of 172


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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]
Band 1	5180	36	ax (20MHz)	242	61	135/143.4 (MCS11)	19.08	21.86
	5200	40	ax (20MHz)	242	61	135/143.4 (MCS11)	19.10	22.10
	5240	48	ax (20MHz)	242	61	135/143.4 (MCS11)	19.07	21.86
	5190	38	ax (40MHz)	484	65	271/286.8 (MCS11)	37.92	39.94
	5230	46	ax (40MHz)	484	65	271/286.8 (MCS11)	37.93	39.70
	5210	42	ax (80MHz)	996	67	567/600.5 (MCS11)	77.51	80.59
Band 2A	5260	52	ax (20MHz)	242	61	135/143.4 (MCS11)	19.10	22.73
	5280	60	ax (20MHz)	242	61	135/143.4 (MCS11)	19.10	22.39
	5320	64	ax (20MHz)	242	61	135/143.4 (MCS11)	19.12	22.88
	5270	54	ax (40MHz)	484	65	271/286.8 (MCS11)	37.88	39.73
	5310	62	ax (40MHz)	484	65	271/286.8 (MCS11)	37.94	39.83
	5290	58	ax (80MHz)	996	67	567/600.5 (MCS11)	77.48	80.60
Band 2C	5500	100	ax (20MHz)	242	61	135/143.4 (MCS11)	19.12	22.73
	5580	116	ax (20MHz)	242	61	135/143.4 (MCS11)	19.10	22.14
	5720	144	ax (20MHz)	242	61	135/143.4 (MCS11)	19.16	22.65
	5510	102	ax (40MHz)	484	65	271/286.8 (MCS11)	37.93	39.86
	5550	110	ax (40MHz)	484	65	271/286.8 (MCS11)	37.93	39.78
	5710	142	ax (40MHz)	484	65	271/286.8 (MCS11)	37.93	39.95
	5530	106	ax (80MHz)	996	67	567/600.5 (MCS11)	77.55	80.69
	*5610	122	ax (80MHz)	996	67	567/600.5 (MCS11)	77.57	80.57
	5690	138	ax (80MHz)	996	67	567/600.5 (MCS11)	77.60	80.93

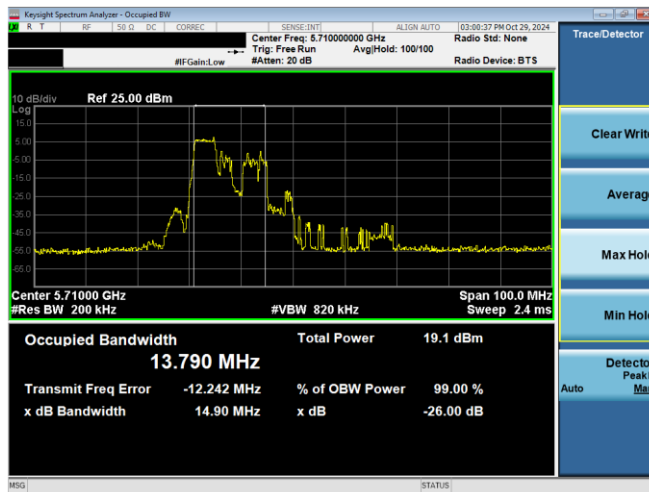
Table 7-7. Conducted BW Measurements Antenna WF8 (Fully – loaded RU)

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

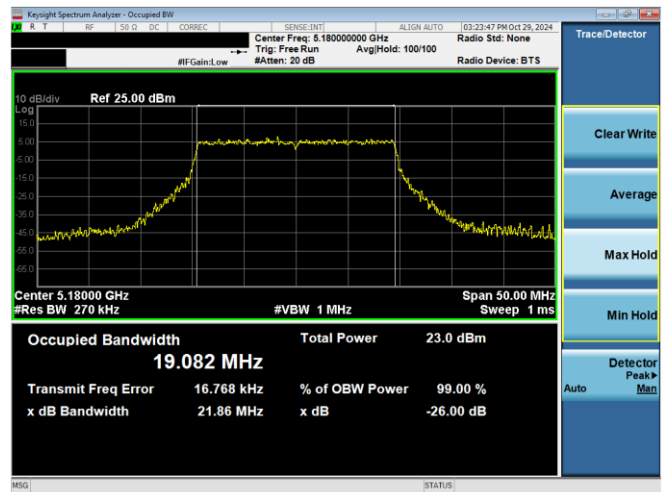
FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 23 of 172

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Plot 7-3. 26dB BW & 99% OBW Antenna WF8 (40MHz BW 11ax Index 37 – RU52– Ch.142)



Plot 7-4. 26dB BW & 99% OBW Antenna WF8 (20MHz BW 11ax– RU242 – Ch.36)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3 6dB & 99% Bandwidth Measurement

§2.1049; §15.407 (e); RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

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

Test Procedure Used

ANSI C63.10-2020 – Section 12.5.1

KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

Test Setup

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

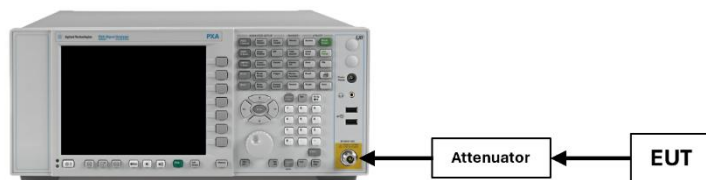


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. All antenna configurations were investigated and only the worst case is 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 plots have been reported.

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.3.1 Antenna WF7a 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	17.89	2.06	0.50	Pass
				26	4	12.5/14.7 (MCS11)	16.48	2.63	0.50	Pass
				26	8	12.5/14.7 (MCS11)	17.26	2.07	0.50	Pass
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	17.97	2.11	0.50	Pass
				26	4	12.5/14.7 (MCS11)	15.80	2.68	0.50	Pass
				26	8	12.5/14.7 (MCS11)	17.63	2.13	0.50	Pass
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.24	2.08	0.50	Pass
				26	4	12.5/14.7 (MCS11)	15.39	2.65	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.14	2.08	0.50	Pass
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.38	2.13	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.03	2.14	0.50	Pass
				26	17	12.5/14.7 (MCS11)	17.54	2.18	0.50	Pass
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	16.16	2.12	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.90	2.13	0.50	Pass
				26	17	12.5/14.7 (MCS11)	16.91	2.16	0.50	Pass
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	16.98	2.29	0.50	Pass
				26	18	12.5/14.7 (MCS11)	35.47	2.73	0.50	Pass
				26	36	12.5/14.7 (MCS11)	17.88	2.28	0.50	Pass

Table 7-8. Conducted Bandwidth Measurements Antenna WF7a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	242	61	135/143.4 (MCS11)	19.01	19.14	0.50	Pass
	5785	157	ax (20MHz)	242	61	135/143.4 (MCS11)	19.01	19.13	0.50	Pass
	5825	165	ax (20MHz)	242	61	135/143.4 (MCS11)	19.03	19.17	0.50	Pass
	5755	151	ax (40MHz)	484	65	271/286.8 (MCS11)	37.88	38.23	0.50	Pass
	5795	159	ax (40MHz)	484	65	271/286.8 (MCS11)	37.89	38.22	0.50	Pass
	5775	155	ax (80MHz)	996	67	567/600.5 (MCS11)	77.32	78.20	0.50	Pass

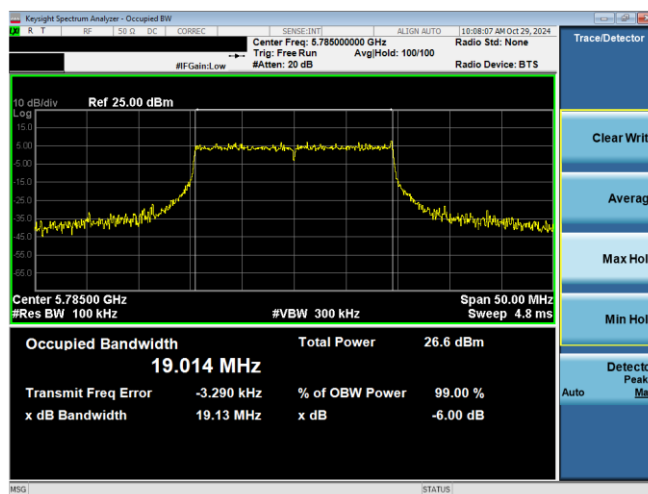
Table 7-9. Conducted Bandwidth Measurements Antenna WF7a (Fully- loaded RU)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-5. 6dB BW & 99% OBW Antenna WF7a (20MHz BW 11ax Index 0 – RU26 – Ch.149)



Plot 7-6. 6dB BW & 99% OBW Antenna WF7a (20MHz BW 11ax– RU242 – Ch.157)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.3.2 Antenna WF8 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	17.81	2.10	0.50	Pass
				26	4	12.5/14.7 (MCS11)	15.63	2.67	0.50	Pass
				26	8	12.5/14.7 (MCS11)	17.99	2.07	0.50	Pass
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	17.39	2.09	0.50	Pass
				26	4	12.5/14.7 (MCS11)	16.43	2.61	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.03	2.10	0.50	Pass
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.15	2.13	0.50	Pass
				26	4	12.5/14.7 (MCS11)	15.52	2.67	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.10	2.14	0.50	Pass
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.27	2.06	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.96	2.17	0.50	Pass
				26	17	12.5/14.7 (MCS11)	17.36	2.14	0.50	Pass
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.21	2.17	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.38	2.17	0.50	Pass
				26	17	12.5/14.7 (MCS11)	17.38	2.16	0.50	Pass
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	17.39	2.26	0.50	Pass
				26	18	12.5/14.7 (MCS11)	34.02	2.89	0.50	Pass
				26	36	12.5/14.7 (MCS11)	17.02	2.22	0.50	Pass

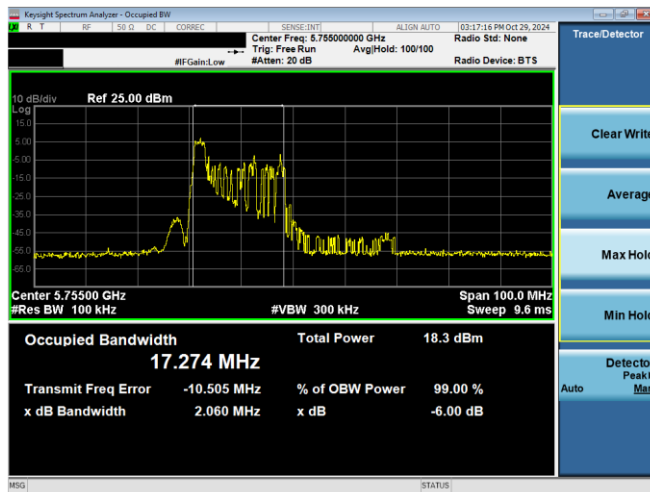
Table 7-10. Conducted Bandwidth Measurements Antenna WF8 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	242	61	135/143.4 (MCS11)	19.03	19.16	0.50	Pass
	5785	157	ax (20MHz)	242	61	135/143.4 (MCS11)	19.02	19.12	0.50	Pass
	5825	165	ax (20MHz)	242	61	135/143.4 (MCS11)	19.02	19.16	0.50	Pass
	5755	151	ax (40MHz)	484	65	271/286.8 (MCS11)	37.84	38.24	0.50	Pass
	5795	159	ax (40MHz)	484	65	271/286.8 (MCS11)	37.90	38.19	0.50	Pass
	5775	155	ax (80MHz)	996	67	567/600.5 (MCS11)	77.43	78.24	0.50	Pass

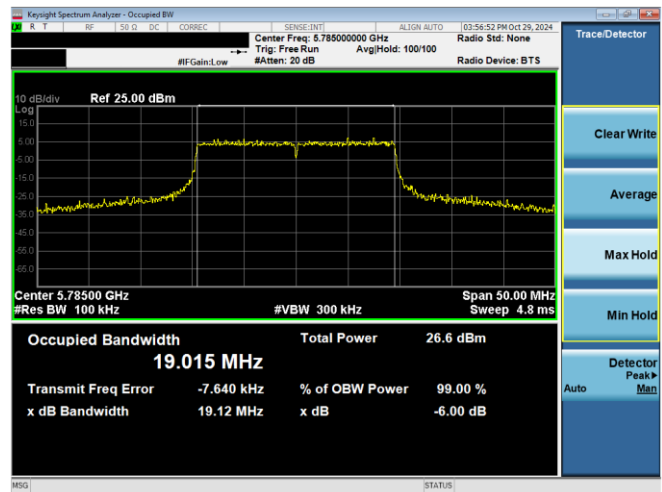
Table 7-11. Conducted Bandwidth Measurements Antenna WF8 (Fully- loaded RU)

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Plot 7-7. 6dB BW & 99% OBW Antenna WF8 (40MHz BW 11ax Index 0 – RU26 – Ch.151)



Plot 7-8. 6dB BW & 99% OBW Antenna WF8 (20MHz BW 11ax– RU242 – Ch.157)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.4 Conducted Output Power and Max EIRP Measurement

§15.407(a.1.iv) §15.407(a.2) §15.407(a.3.i); RSS-247 [6.2]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. B is the 99% OBW per ISSED RSS-247 and 26dB BW is per FCC 15.407.

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

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

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

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

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G
ANSI C63.10-2020 – Section 14.4 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

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

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
2. All RU's were investigated, RU 26 and fully-loaded RU were reported.
3. Additionally, the highest power among partially-loaded RU's was reported.
4. The "-" shown in the following power tables are used to denote N/A.
5. For 802.11ax, the worst case data rate was found to be MCS11.

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7.4.1 FCC Antenna WF7a Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	26	0	12.5/14.7 (MCS11)	9.55	23.98	-14.43
			26	4	12.5/14.7 (MCS11)	9.95	23.98	-14.03
			26	8	12.5/14.7 (MCS11)	9.59	23.98	-14.39
	5200	40	26	0	12.5/14.7 (MCS11)	9.56	23.98	-14.42
			26	4	12.5/14.7 (MCS11)	9.53	23.98	-14.45
			26	8	12.5/14.7 (MCS11)	9.62	23.98	-14.36
	5240	48	26	0	12.5/14.7 (MCS11)	9.60	23.98	-14.38
			26	4	12.5/14.7 (MCS11)	9.53	23.98	-14.45
			26	8	12.5/14.7 (MCS11)	9.65	23.98	-14.33
	5745	149	26	0	12.5/14.7 (MCS11)	10.00	30.00	-20.01
			26	4	12.5/14.7 (MCS11)	9.92	30.00	-20.08
			26	8	12.5/14.7 (MCS11)	9.98	30.00	-20.02
	5785	157	26	0	12.5/14.7 (MCS11)	9.62	30.00	-20.39
			26	4	12.5/14.7 (MCS11)	9.95	30.00	-20.05
			26	8	12.5/14.7 (MCS11)	10.00	30.00	-20.00
	5825	165	26	0	12.5/14.7 (MCS11)	9.64	30.00	-20.36
			26	4	12.5/14.7 (MCS11)	9.95	30.00	-20.06
			26	8	12.5/14.7 (MCS11)	9.93	30.00	-20.07

Table 7-12. FCC Antenna WF7a 20MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	26	0	12.5/14.7 (MCS11)	9.55	23.98	-14.43
			26	8	12.5/14.7 (MCS11)	9.91	23.98	-14.07
			26	17	12.5/14.7 (MCS11)	9.75	23.98	-14.23
	5230	46	26	0	12.5/14.7 (MCS11)	9.62	23.98	-14.36
			26	8	12.5/14.7 (MCS11)	9.93	23.98	-14.05
			26	17	12.5/14.7 (MCS11)	9.75	23.98	-14.23
	5755	151	26	0	12.5/14.7 (MCS11)	9.64	30.00	-20.36
			26	8	12.5/14.7 (MCS11)	9.85	30.00	-20.15
			26	17	12.5/14.7 (MCS11)	9.66	30.00	-20.34
	5795	159	26	0	12.5/14.7 (MCS11)	9.66	30.00	-20.34
			26	8	12.5/14.7 (MCS11)	9.78	30.00	-20.22
			26	17	12.5/14.7 (MCS11)	9.65	30.00	-20.35

Table 7-13. FCC Antenna WF7a 40MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	26	0	12.5/14.7 (MCS11)	9.95	23.98	-14.03
			26	18	12.5/14.7 (MCS11)	9.99	23.98	-13.99
			26	36	12.5/14.7 (MCS11)	9.64	23.98	-14.34
	5775	155	26	0	12.5/14.7 (MCS11)	9.53	30.00	-20.47
			26	18	12.5/14.7 (MCS11)	9.94	30.00	-20.06
			26	36	12.5/14.7 (MCS11)	9.99	30.00	-20.01

Table 7-14. FCC Antenna WF7a 80MHz BW (UNII) Maximum Conducted Output Power (RU26)

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7.4.2 ISED Antenna WF7a Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	26	0	12.5/14.7 (MCS11)	5.54	-	-	4.10	9.64	21.72	-12.07
			26	4	12.5/14.7 (MCS11)	5.98	-	-	4.10	10.08	21.72	-11.64
			26	8	12.5/14.7 (MCS11)	5.77	-	-	4.10	9.87	21.72	-11.85
	5200	40	26	0	12.5/14.7 (MCS11)	5.55	-	-	4.10	9.65	21.72	-12.07
			26	4	12.5/14.7 (MCS11)	5.60	-	-	4.10	9.70	21.72	-12.02
			26	8	12.5/14.7 (MCS11)	5.64	-	-	4.10	9.74	21.72	-11.98
	5240	48	26	0	12.5/14.7 (MCS11)	5.54	-	-	4.10	9.64	21.72	-12.08
			26	4	12.5/14.7 (MCS11)	5.55	-	-	4.10	9.65	21.72	-12.07
			26	8	12.5/14.7 (MCS11)	5.70	-	-	4.10	9.80	21.72	-11.92
	5745	149	26	0	12.5/14.7 (MCS11)	10.00	30.00	-20.01	4.60	14.60	-	-
			26	4	12.5/14.7 (MCS11)	9.92	30.00	-20.08	4.60	14.52	-	-
			26	8	12.5/14.7 (MCS11)	9.98	30.00	-20.02	4.60	14.58	-	-
	5785	157	26	0	12.5/14.7 (MCS11)	9.62	30.00	-20.39	4.60	14.22	-	-
			26	4	12.5/14.7 (MCS11)	9.95	30.00	-20.05	4.60	14.55	-	-
			26	8	12.5/14.7 (MCS11)	10.00	30.00	-20.00	4.60	14.60	-	-
	5825	165	26	0	12.5/14.7 (MCS11)	9.64	30.00	-20.36	4.60	14.24	-	-
			26	4	12.5/14.7 (MCS11)	9.95	30.00	-20.06	4.60	14.55	-	-
			26	8	12.5/14.7 (MCS11)	9.93	30.00	-20.07	4.60	14.53	-	-

Table 7-15. ISED Antenna WF7a 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	26	0	12.5/14.7 (MCS11)	5.74	-	-	4.10	9.84	21.72	-11.88
			26	8	12.5/14.7 (MCS11)	5.71	-	-	4.10	9.81	21.72	-11.91
			26	17	12.5/14.7 (MCS11)	5.85	-	-	4.10	9.95	21.72	-11.76
	5230	46	26	0	12.5/14.7 (MCS11)	5.64	-	-	4.10	9.74	21.72	-11.98
			26	8	12.5/14.7 (MCS11)	5.98	-	-	4.10	10.08	21.72	-11.64
			26	17	12.5/14.7 (MCS11)	5.77	-	-	4.10	9.87	21.72	-11.85
	5755	151	26	0	12.5/14.7 (MCS11)	9.64	30.00	-20.36	4.60	14.24	-	-
			26	8	12.5/14.7 (MCS11)	9.85	30.00	-20.15	4.60	14.45	-	-
			26	17	12.5/14.7 (MCS11)	9.66	30.00	-20.34	4.60	14.26	-	-
	5795	159	26	0	12.5/14.7 (MCS11)	9.66	30.00	-20.34	4.60	14.26	-	-
			26	8	12.5/14.7 (MCS11)	9.78	30.00	-20.22	4.60	14.38	-	-
			26	17	12.5/14.7 (MCS11)	9.65	30.00	-20.35	4.60	14.25	-	-

Table 7-16. ISED Antenna WF7a 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	26	0	12.5/14.7 (MCS11)	5.56	-	-	4.10	9.66	21.72	-12.06
			26	18	12.5/14.7 (MCS11)	5.95	-	-	4.10	10.05	21.72	-11.67
			26	36	12.5/14.7 (MCS11)	5.65	-	-	4.10	9.75	21.72	-11.96
	5775	155	26	0	12.5/14.7 (MCS11)	9.53	30.00	-20.47	4.60	14.13	-	-
			26	18	12.5/14.7 (MCS11)	9.94	30.00	-20.06	4.60	14.54	-	-
			26	36	12.5/14.7 (MCS11)	9.99	30.00	-20.01	4.60	14.59	-	-

Table 7-17. ISED Antenna WF7a 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.4.3 FCC Antenna WF7a Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5260	52	52	37	25/29.4 (MCS11)	10.69	22.80	-12.10
			52	39	25/29.4 (MCS11)	10.58	22.80	-12.22
			52	40	25/29.4 (MCS11)	10.82	22.80	-11.98
	5300	60	52	37	25/29.4 (MCS11)	10.91	22.80	-11.89
			52	39	25/29.4 (MCS11)	10.89	22.80	-11.91
			52	40	25/29.4 (MCS11)	10.55	22.80	-12.25
	5320	64	52	37	25/29.4 (MCS11)	10.95	22.80	-11.85
			52	39	25/29.4 (MCS11)	10.91	22.80	-11.89
			52	40	25/29.4 (MCS11)	10.51	22.80	-12.29
	5500	100	52	37	25/29.4 (MCS11)	10.97	22.16	-11.18
			52	39	25/29.4 (MCS11)	10.96	22.16	-11.20
			52	40	25/29.4 (MCS11)	10.51	22.16	-11.64
	5580	116	52	37	25/29.4 (MCS11)	10.77	22.16	-11.39
			52	39	25/29.4 (MCS11)	10.74	22.16	-11.42
			52	40	25/29.4 (MCS11)	10.75	22.16	-11.40
	5720	144	52	37	25/29.4 (MCS11)	10.60	22.16	-11.55
			52	39	25/29.4 (MCS11)	10.57	22.16	-11.59
			52	40	25/29.4 (MCS11)	10.64	22.16	-11.52

Table 7-18. FCC Antenna WF7a 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5270	54	52	37	25/29.4 (MCS11)	10.65	22.80	-12.15
			52	40	25/29.4 (MCS11)	10.55	22.80	-12.25
			52	44	25/29.4 (MCS11)	10.93	22.80	-11.87
	5310	62	52	37	25/29.4 (MCS11)	10.98	22.80	-11.82
			52	40	25/29.4 (MCS11)	10.78	22.80	-12.02
			52	44	25/29.4 (MCS11)	10.64	22.80	-12.16
	5510	102	52	37	25/29.4 (MCS11)	10.97	22.16	-11.18
			52	40	25/29.4 (MCS11)	10.88	22.16	-11.27
			52	44	25/29.4 (MCS11)	10.63	22.16	-11.52
	5550	110	52	37	25/29.4 (MCS11)	10.99	22.16	-11.17
			52	40	25/29.4 (MCS11)	10.85	22.16	-11.31
			52	44	25/29.4 (MCS11)	10.55	22.16	-11.60
	5710	142	52	37	25/29.4 (MCS11)	10.59	22.16	-11.57
			52	40	25/29.4 (MCS11)	10.95	22.16	-11.21
			52	44	25/29.4 (MCS11)	10.71	22.16	-11.45

Table 7-19. FCC Antenna WF7a 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5290	58	52	37	25/29.4 (MCS11)	9.60	22.80	-13.20
			52	44	25/29.4 (MCS11)	9.57	22.80	-13.23
			52	52	25/29.4 (MCS11)	9.89	22.80	-12.91
	5530	106	52	37	25/29.4 (MCS11)	9.48	22.16	-12.68
			52	44	25/29.4 (MCS11)	9.39	22.16	-12.77
			52	52	25/29.4 (MCS11)	9.48	22.16	-12.68
	5610	122	52	37	25/29.4 (MCS11)	10.79	22.16	-11.37
			52	44	25/29.4 (MCS11)	10.63	22.16	-11.53
			52	52	25/29.4 (MCS11)	10.83	22.16	-11.33
	5690	138	52	37	25/29.4 (MCS11)	10.80	22.16	-11.36
			52	44	25/29.4 (MCS11)	10.69	22.16	-11.47
			52	52	25/29.4 (MCS11)	10.93	22.16	-11.23

Table 7-20. FCC Antenna WF7a 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.4.4 ISED Antenna WF7a Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5260	52	52	37	25/29.4 (MCS11)	10.69	22.80	-12.10	4.80	15.49	28.80	-13.30
			52	39	25/29.4 (MCS11)	10.58	22.80	-12.22	4.80	15.38	28.80	-13.42
			52	40	25/29.4 (MCS11)	10.82	22.80	-11.98	4.80	15.62	28.80	-13.18
	5300	60	52	37	25/29.4 (MCS11)	10.91	22.80	-11.89	4.80	15.71	28.80	-13.09
			52	39	25/29.4 (MCS11)	10.89	22.80	-11.91	4.80	15.69	28.80	-13.11
			52	40	25/29.4 (MCS11)	10.55	22.80	-12.25	4.80	15.35	28.80	-13.45
	5320	64	52	37	25/29.4 (MCS11)	10.95	22.80	-11.85	4.80	15.75	28.80	-13.05
			52	39	25/29.4 (MCS11)	10.91	22.80	-11.89	4.80	15.71	28.80	-13.09
			52	40	25/29.4 (MCS11)	10.51	22.80	-12.29	4.80	15.31	28.80	-13.49
	5500	100	52	37	25/29.4 (MCS11)	10.97	22.16	-11.18	4.60	15.57	28.16	-12.58
			52	39	25/29.4 (MCS11)	10.96	22.16	-11.20	4.60	15.56	28.16	-12.60
			52	40	25/29.4 (MCS11)	10.51	22.16	-11.64	4.60	15.11	28.16	-13.04
	5580	116	52	37	25/29.4 (MCS11)	10.77	22.16	-11.39	4.60	15.37	28.16	-12.79
			52	39	25/29.4 (MCS11)	10.74	22.16	-11.42	4.60	15.34	28.16	-12.82
			52	40	25/29.4 (MCS11)	10.75	22.16	-11.40	4.60	15.35	28.16	-12.80
	5720	144	52	37	25/29.4 (MCS11)	10.60	22.16	-11.55	4.60	15.20	28.16	-12.95
			52	39	25/29.4 (MCS11)	10.57	22.16	-11.59	4.60	15.17	28.16	-12.99
			52	40	25/29.4 (MCS11)	10.64	22.16	-11.52	4.60	15.24	28.16	-12.92

Table 7-21. ISED Antenna WF7a 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5270	54	52	37	25/29.4 (MCS11)	10.65	22.80	-12.15	4.80	15.45	28.80	-13.35
			52	40	25/29.4 (MCS11)	10.55	22.80	-12.25	4.80	15.35	28.80	-13.45
			52	44	25/29.4 (MCS11)	10.93	22.80	-11.87	4.80	15.73	28.80	-13.07
	5310	62	52	37	25/29.4 (MCS11)	10.98	22.80	-11.82	4.80	15.78	28.80	-13.02
			52	40	25/29.4 (MCS11)	10.78	22.80	-12.02	4.80	15.58	28.80	-13.22
			52	44	25/29.4 (MCS11)	10.64	22.80	-12.16	4.80	15.44	28.80	-13.36
	5510	102	52	37	25/29.4 (MCS11)	10.97	22.16	-11.18	4.60	15.57	28.16	-12.58
			52	40	25/29.4 (MCS11)	10.88	22.16	-11.27	4.60	15.48	28.16	-12.67
			52	44	25/29.4 (MCS11)	10.63	22.16	-11.52	4.60	15.23	28.16	-12.92
	5550	110	52	37	25/29.4 (MCS11)	10.99	22.16	-11.17	4.60	15.59	28.16	-12.57
			52	40	25/29.4 (MCS11)	10.85	22.16	-11.31	4.60	15.45	28.16	-12.71
			52	44	25/29.4 (MCS11)	10.55	22.16	-11.60	4.60	15.15	28.16	-13.00
	5710	142	52	37	25/29.4 (MCS11)	10.59	22.16	-11.57	4.60	15.19	28.16	-12.97
			52	40	25/29.4 (MCS11)	10.95	22.16	-11.21	4.60	15.55	28.16	-12.61
			52	44	25/29.4 (MCS11)	10.71	22.16	-11.45	4.60	15.31	28.16	-12.85

Table 7-22. ISED Antenna WF7a 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5290	58	52	37	25/29.4 (MCS11)	9.60	22.80	-13.20	4.80	14.40	28.80	-14.40
			52	44	25/29.4 (MCS11)	9.57	22.80	-13.23	4.80	14.37	28.80	-14.43
			52	52	25/29.4 (MCS11)	9.89	22.80	-12.91	4.80	14.69	28.80	-14.11
	5530	106	52	37	25/29.4 (MCS11)	9.48	22.16	-12.68	4.60	14.08	28.16	-14.08
			52	44	25/29.4 (MCS11)	9.39	22.16	-12.77	4.60	13.99	28.16	-14.17
			52	52	25/29.4 (MCS11)	9.48	22.16	-12.68	4.60	14.08	28.16	-14.08
	5690	138	52	37	25/29.4 (MCS11)	10.80	22.16	-11.36	4.60	15.40	28.16	-12.76
			52	44	25/29.4 (MCS11)	10.69	22.16	-11.47	4.60	15.29	28.16	-12.87
			52	52	25/29.4 (MCS11)	10.93	22.16	-11.23	4.60	15.53	28.16	-12.63

Table 7-23. ISED Antenna WF7a 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 35 of 172

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7.4.5 FCC Antenna WF7a Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	106	53	53.1/62.5 (MCS11)	11.70	23.98	-12.28
			106	54	53.1/62.5 (MCS11)	11.73	23.98	-12.25
	5200	40	106	53	53.1/62.5 (MCS11)	11.77	23.98	-12.21
			106	54	53.1/62.5 (MCS11)	11.77	23.98	-12.21
	5240	48	106	53	53.1/62.5 (MCS11)	11.82	23.98	-12.16
			106	54	53.1/62.5 (MCS11)	11.79	23.98	-12.19
	5260	52	106	53	53.1/62.5 (MCS11)	11.76	22.80	-11.03
			106	54	53.1/62.5 (MCS11)	11.89	22.80	-10.91
	5300	60	106	53	53.1/62.5 (MCS11)	11.57	22.80	-11.23
			106	54	53.1/62.5 (MCS11)	11.68	22.80	-11.12
	5320	64	106	53	53.1/62.5 (MCS11)	11.60	22.80	-11.20
			106	54	53.1/62.5 (MCS11)	11.67	22.80	-11.13
	5500	100	106	53	53.1/62.5 (MCS11)	11.59	22.16	-10.56
			106	54	53.1/62.5 (MCS11)	11.69	22.16	-10.47
	5580	116	106	53	53.1/62.5 (MCS11)	11.90	22.16	-10.25
			106	54	53.1/62.5 (MCS11)	11.91	22.16	-10.25
	5720	144	106	53	53.1/62.5 (MCS11)	11.75	22.16	-10.41
			106	54	53.1/62.5 (MCS11)	11.80	22.16	-10.35
	5745	149	106	53	53.1/62.5 (MCS11)	11.69	30.00	-18.31
			106	54	53.1/62.5 (MCS11)	11.68	30.00	-18.32
	5785	157	106	53	53.1/62.5 (MCS11)	11.72	30.00	-18.28
			106	54	53.1/62.5 (MCS11)	11.71	30.00	-18.29
	5825	165	106	53	53.1/62.5 (MCS11)	11.70	30.00	-18.30
			106	54	53.1/62.5 (MCS11)	11.60	30.00	-18.40

Table 7-24. FCC Antenna WF7a 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 36 of 172

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	242	61	121.9/143.4 (MCS11)	14.98	23.98	-9.00
			242	62	121.9/143.4 (MCS11)	14.54	23.98	-9.44
	5230	46	242	61	121.9/143.4 (MCS11)	18.47	23.98	-5.51
			242	62	121.9/143.4 (MCS11)	18.55	23.98	-5.43
	5270	54	242	61	121.9/143.4 (MCS11)	18.46	22.80	-4.34
			242	62	121.9/143.4 (MCS11)	18.48	22.80	-4.32
	5310	62	242	61	121.9/143.4 (MCS11)	15.26	22.80	-7.54
			242	62	121.9/143.4 (MCS11)	15.34	22.80	-7.45
	5510	102	242	61	121.9/143.4 (MCS11)	14.45	22.16	-7.70
			242	62	121.9/143.4 (MCS11)	14.43	22.16	-7.73
	5550	110	242	61	121.9/143.4 (MCS11)	17.80	22.16	-4.36
			242	62	121.9/143.4 (MCS11)	17.81	22.16	-4.35
	5590	118	242	61	121.9/143.4 (MCS11)	18.57	22.16	-3.59
			242	62	121.9/143.4 (MCS11)	18.62	22.16	-3.54
	5630	126	242	61	121.9/143.4 (MCS11)	18.56	22.16	-3.59
			242	62	121.9/143.4 (MCS11)	18.63	22.16	-3.53
	5670	134	242	61	121.9/143.4 (MCS11)	15.12	22.16	-7.04
			242	62	121.9/143.4 (MCS11)	15.18	22.16	-6.97
	5710	142	242	61	121.9/143.4 (MCS11)	12.68	22.16	-9.48
			242	62	121.9/143.4 (MCS11)	12.59	22.16	-9.57
	5755	151	242	61	121.9/143.4 (MCS11)	18.83	30.00	-11.17
			242	62	121.9/143.4 (MCS11)	18.77	30.00	-11.23
	5795	159	242	61	121.9/143.4 (MCS11)	18.79	30.00	-11.21
			242	62	121.9/143.4 (MCS11)	18.87	30.00	-11.13

Table 7-25. FCC Antenna WF7a 40MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	242	61	121.9/143.4 (MCS11)	14.65	23.98	-9.33
			242	62	121.9/143.4 (MCS11)	14.69	23.98	-9.29
			242	64	121.9/143.4 (MCS11)	14.76	23.98	-9.22
	5290	58	242	61	121.9/143.4 (MCS11)	15.27	22.80	-7.52
			242	62	121.9/143.4 (MCS11)	15.33	22.80	-7.47
			242	64	121.9/143.4 (MCS11)	15.38	22.80	-7.42
	5530	106	242	61	121.9/143.4 (MCS11)	14.14	22.16	-8.02
			242	62	121.9/143.4 (MCS11)	14.11	22.16	-8.04
			242	64	121.9/143.4 (MCS11)	14.09	22.16	-8.07
	5610	122	484	65	243.8/286.8 (MCS11)	17.68	22.16	-4.48
			484	66	243.8/286.8 (MCS11)	17.63	22.16	-4.53
			484	65	243.8/286.8 (MCS11)	13.67	22.16	-8.49
	5690	138	484	66	243.8/286.8 (MCS11)	13.55	22.16	-8.61
			484	65	243.8/286.8 (MCS11)	16.38	30.00	-13.62
			484	66	243.8/286.8 (MCS11)	16.37	30.00	-13.63

Table 7-26. FCC Antenna WF7a 80MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 37 of 172

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7.4.6 ISED Antenna WF7a Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	106	53	53.1/62.5 (MCS11)	11.52	-	-	4.10	15.62	21.72	-6.10
			106	54	53.1/62.5 (MCS11)	11.69	-	-	4.10	15.79	21.72	-5.93
	5200	40	106	53	53.1/62.5 (MCS11)	11.56	-	-	4.10	15.66	21.72	-6.06
			106	54	53.1/62.5 (MCS11)	11.61	-	-	4.10	15.71	21.72	-6.01
	5240	48	106	53	53.1/62.5 (MCS11)	11.61	-	-	4.10	15.71	21.72	-6.01
			106	54	53.1/62.5 (MCS11)	11.62	-	-	4.10	15.72	21.72	-6.00
	5260	52	106	53	53.1/62.5 (MCS11)	11.76	22.80	-11.03	4.80	16.56	28.80	-12.23
			106	54	53.1/62.5 (MCS11)	11.89	22.80	-10.91	4.80	16.69	28.80	-12.11
	5300	60	106	53	53.1/62.5 (MCS11)	11.57	22.80	-11.23	4.80	16.37	28.80	-12.43
			106	54	53.1/62.5 (MCS11)	11.68	22.80	-11.12	4.80	16.48	28.80	-12.32
	5320	64	106	53	53.1/62.5 (MCS11)	11.60	22.80	-11.20	4.80	16.40	28.80	-12.40
			106	54	53.1/62.5 (MCS11)	11.67	22.80	-11.13	4.80	16.47	28.80	-12.33
	5500	100	106	53	53.1/62.5 (MCS11)	11.59	22.16	-10.56	4.60	16.19	28.16	-11.96
			106	54	53.1/62.5 (MCS11)	11.69	22.16	-10.47	4.60	16.29	28.16	-11.87
	5580	116	106	53	53.1/62.5 (MCS11)	11.90	22.16	-10.25	4.60	16.50	28.16	-11.65
			106	54	53.1/62.5 (MCS11)	11.91	22.16	-10.25	4.60	16.51	28.16	-11.65
	5720	144	106	53	53.1/62.5 (MCS11)	11.75	22.16	-10.41	4.60	16.35	28.16	-11.81
			106	54	53.1/62.5 (MCS11)	11.80	22.16	-10.35	4.60	16.40	28.16	-11.75
	5745	149	106	53	53.1/62.5 (MCS11)	11.69	30.00	-18.31	4.60	16.29	-	-
			106	54	53.1/62.5 (MCS11)	11.68	30.00	-18.32	4.60	16.28	-	-
	5785	157	106	53	53.1/62.5 (MCS11)	11.72	30.00	-18.28	4.60	16.32	-	-
			106	54	53.1/62.5 (MCS11)	11.71	30.00	-18.29	4.60	16.31	-	-
	5825	165	106	53	53.1/62.5 (MCS11)	11.70	30.00	-18.30	4.60	16.30	-	-
			106	54	53.1/62.5 (MCS11)	11.60	30.00	-18.40	4.60	16.20	-	-

Table 7-27. ISED Antenna WF7a 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	242	61	121.9/143.4 (MCS11)	14.91	-	-	4.10	19.01	21.72	-2.71
			242	62	121.9/143.4 (MCS11)	14.93	-	-	4.10	19.03	21.72	-2.69
	5230	46	242	61	121.9/143.4 (MCS11)	15.43	-	-	4.10	19.53	21.72	-2.19
			242	62	121.9/143.4 (MCS11)	15.45	-	-	4.10	19.55	21.72	-2.16
	5270	54	242	61	121.9/143.4 (MCS11)	18.46	22.80	-4.34	4.80	23.26	28.80	-5.54
			242	62	121.9/143.4 (MCS11)	18.48	22.80	-4.32	4.80	23.28	28.80	-5.52
	5310	62	242	61	121.9/143.4 (MCS11)	15.26	22.80	-7.54	4.80	20.06	28.80	-8.74
			242	62	121.9/143.4 (MCS11)	15.34	22.80	-7.45	4.80	20.14	28.80	-8.65
	5510	102	242	61	121.9/143.4 (MCS11)	14.45	22.16	-7.70	4.60	19.05	28.16	-9.10
			242	62	121.9/143.4 (MCS11)	14.43	22.16	-7.73	4.60	19.03	28.16	-9.13
	5550	110	242	61	121.9/143.4 (MCS11)	17.80	22.16	-4.36	4.60	22.40	28.16	-5.76
			242	62	121.9/143.4 (MCS11)	17.81	22.16	-4.35	4.60	22.41	28.16	-5.75
	5670	134	242	61	121.9/143.4 (MCS11)	15.12	22.16	-7.04	4.60	19.72	28.16	-8.44
			242	62	121.9/143.4 (MCS11)	15.18	22.16	-6.97	4.60	19.78	28.16	-8.37
	5710	142	242	61	121.9/143.4 (MCS11)	12.68	22.16	-9.48	4.60	17.28	28.16	-10.88
			242	62	121.9/143.4 (MCS11)	12.59	22.16	-9.57	4.60	17.19	28.16	-10.97
	5755	151	242	61	121.9/143.4 (MCS11)	18.83	30.00	-11.17	4.60	23.43	-	-
			242	62	121.9/143.4 (MCS11)	18.77	30.00	-11.23	4.60	23.37	-	-
	5795	159	242	61	121.9/143.4 (MCS11)	18.79	30.00	-11.21	4.60	23.39	-	-
			242	62	121.9/143.4 (MCS11)	18.87	30.00	-11.13	4.60	23.47	-	-

Table 7-28. ISED Antenna WF7a 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 38 of 172

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	242	61	121.9/143.4 (MCS11)	14.89	-	-	4.10	18.99	21.72	-2.73
			242	62	121.9/143.4 (MCS11)	14.90	-	-	4.10	19.00	21.72	-2.72
			242	64	121.9/143.4 (MCS11)	14.70	-	-	4.10	18.80	21.72	-2.92
	5290	58	242	61	121.9/143.4 (MCS11)	15.27	22.80	-7.52	4.80	20.07	28.80	-8.72
			242	62	121.9/143.4 (MCS11)	15.33	22.80	-7.47	4.80	20.13	28.80	-8.67
			242	64	121.9/143.4 (MCS11)	15.38	22.80	-7.42	4.80	20.18	28.80	-8.62
	5530	106	242	61	121.9/143.4 (MCS11)	14.14	22.16	-8.02	4.60	18.74	28.16	-9.42
			242	62	121.9/143.4 (MCS11)	14.11	22.16	-8.04	4.60	18.71	28.16	-9.44
			242	64	121.9/143.4 (MCS11)	14.09	22.16	-8.07	4.60	18.69	28.16	-9.47
	5690	138	484	65	243.8/286.8 (MCS11)	13.67	22.16	-8.49	4.60	18.27	28.16	-9.89
			484	66	243.8/286.8 (MCS11)	13.55	22.16	-8.61	4.60	18.15	28.16	-10.01
	5775	155	484	65	243.8/286.8 (MCS11)	16.38	30.00	-13.62	4.60	20.98	-	-
			484	66	243.8/286.8 (MCS11)	16.37	30.00	-13.63	4.60	20.97	-	-
			484	66	243.8/286.8 (MCS11)	16.37	30.00	-13.63	4.60	20.97	-	-

Table 7-29. ISED Antenna WF7a 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 39 of 172

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7.4.7 FCC Antenna WF7a Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	242	61	121.9/143.4 (MCS11)	14.84	23.98	-9.14
	5200	40	242	61	121.9/143.4 (MCS11)	17.91	23.98	-6.07
	5240	48	242	61	121.9/143.4 (MCS11)	18.61	23.98	-5.37
	5260	52	242	61	121.9/143.4 (MCS11)	18.52	22.80	-4.28
	5300	60	242	61	121.9/143.4 (MCS11)	17.87	22.80	-4.93
	5320	64	242	61	121.9/143.4 (MCS11)	15.30	22.80	-7.50
	5500	100	242	61	121.9/143.4 (MCS11)	14.34	22.16	-7.82
	5520	104	242	61	121.9/143.4 (MCS11)	15.54	22.16	-6.61
	5540	108	242	61	121.9/143.4 (MCS11)	17.54	22.16	-4.62
	5560	112	242	61	121.9/143.4 (MCS11)	18.64	22.16	-3.52
	5580	116	242	61	121.9/143.4 (MCS11)	18.56	22.16	-3.60
	5640	128	242	61	121.9/143.4 (MCS11)	18.60	22.16	-3.56
	5660	132	242	61	121.9/143.4 (MCS11)	17.83	22.16	-4.33
	5680	136	242	61	121.9/143.4 (MCS11)	15.35	22.16	-6.80
	5700	140	242	61	121.9/143.4 (MCS11)	12.54	22.16	-9.62
	5720	144	242	61	121.9/143.4 (MCS11)	18.99	22.16	-3.17
	5745	149	242	61	121.9/143.4 (MCS11)	18.77	30.00	-11.24
	5785	157	242	61	121.9/143.4 (MCS11)	18.83	30.00	-11.17
	5825	165	242	61	121.9/143.4 (MCS11)	18.91	30.00	-11.09

Table 7-30. FCC Antenna WF7a 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	484	65	243.8/286.8 (MCS11)	13.89	23.98	-10.09
	5230	46	484	65	243.8/286.8 (MCS11)	17.51	23.98	-6.47
	5270	54	484	65	243.8/286.8 (MCS11)	17.11	22.80	-5.69
	5310	62	484	65	243.8/286.8 (MCS11)	12.28	22.80	-10.52
	5510	102	484	65	243.8/286.8 (MCS11)	11.89	22.16	-10.27
	5550	110	484	65	243.8/286.8 (MCS11)	16.42	22.16	-5.74
	5590	118	484	65	243.8/286.8 (MCS11)	18.69	22.16	-3.47
	5630	126	484	65	243.8/286.8 (MCS11)	17.86	22.16	-4.30
	5670	134	484	65	243.8/286.8 (MCS11)	13.67	22.16	-8.49
	5710	142	484	65	243.8/286.8 (MCS11)	18.61	22.16	-3.55
	5755	151	484	65	243.8/286.8 (MCS11)	16.83	30.00	-13.17
	5795	159	484	65	243.8/286.8 (MCS11)	18.98	30.00	-11.02

Table 7-31. FCC Antenna WF7a 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	996	67	510.4/600.5 (MCS11)	11.40	23.98	-12.58
	5290	58	996	67	510.4/600.5 (MCS11)	9.63	22.80	-13.17
	5530	106	996	67	510.4/600.5 (MCS11)	9.36	22.16	-12.80
	5610	122	996	67	510.4/600.5 (MCS11)	15.05	22.16	-7.10
	5690	138	996	67	510.4/600.5 (MCS11)	18.73	22.16	-3.43
	5775	155	996	67	510.4/600.5 (MCS11)	14.85	30.00	-15.15

Table 7-32. FCC Antenna WF7a 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3354 IC: 579C-A3354			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device		Page 40 of 172

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7.4.8 ISED Antenna WF7a Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	242	61	121.9/143.4 (MCS11)	14.90	-	-	4.10	19.00	21.72	-2.72
	5200	40	242	61	121.9/143.4 (MCS11)	15.40	-	-	4.10	19.50	21.72	-2.22
	5240	48	242	61	121.9/143.4 (MCS11)	15.01	-	-	4.10	19.11	21.72	-2.61
	5260	52	242	61	121.9/143.4 (MCS11)	18.52	22.80	-4.28	4.80	23.32	28.80	-5.48
	5300	60	242	61	121.9/143.4 (MCS11)	17.87	22.80	-4.93	4.80	22.67	28.80	-6.13
	5320	64	242	61	121.9/143.4 (MCS11)	15.30	22.80	-7.50	4.80	20.10	28.80	-8.70
	5500	100	242	61	121.9/143.4 (MCS11)	14.34	22.16	-7.82	4.60	18.94	28.16	-9.22
	5520	104	242	61	121.9/143.4 (MCS11)	15.54	22.16	-6.61	4.60	20.14	28.16	-8.01
	5540	108	242	61	121.9/143.4 (MCS11)	17.54	22.16	-4.62	4.60	22.14	28.16	-6.02
	5560	112	242	61	121.9/143.4 (MCS11)	18.64	22.16	-3.52	4.60	23.24	28.16	-4.92
	5580	116	242	61	121.9/143.4 (MCS11)	18.56	22.16	-3.60	4.60	23.16	28.16	-5.00
	5660	132	242	61	121.9/143.4 (MCS11)	17.83	22.16	-4.33	4.60	22.43	28.16	-5.73
	5680	136	242	61	121.9/143.4 (MCS11)	15.35	22.16	-6.80	4.60	19.95	28.16	-8.20
	5700	140	242	61	121.9/143.4 (MCS11)	12.54	22.16	-9.62	4.60	17.14	28.16	-11.02
	5720	144	242	61	121.9/143.4 (MCS11)	18.99	22.16	-3.17	4.60	23.59	28.16	-4.57
	5745	149	242	61	121.9/143.4 (MCS11)	18.77	30.00	-11.24	4.60	23.37	-	-
	5785	157	242	61	121.9/143.4 (MCS11)	18.83	30.00	-11.17	4.60	23.43	-	-
	5825	165	242	61	121.9/143.4 (MCS11)	18.91	30.00	-11.09	4.60	23.51	-	-

Table 7-33. ISED Antenna WF7a 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	484	65	243.8/286.8 (MCS11)	13.99	-	-	4.10	18.09	21.72	-3.63
	5230	46	484	65	243.8/286.8 (MCS11)	17.09	-	-	4.10	21.19	21.72	-0.53
	5270	54	484	65	243.8/286.8 (MCS11)	17.11	22.80	-5.69	4.80	21.91	28.80	-6.89
	5310	62	484	65	243.8/286.8 (MCS11)	12.28	22.80	-10.52	4.80	17.08	28.80	-11.72
	5510	102	484	65	243.8/286.8 (MCS11)	11.89	22.16	-10.27	4.60	16.49	28.16	-11.67
	5550	110	484	65	243.8/286.8 (MCS11)	16.42	22.16	-5.74	4.60	21.02	28.16	-7.14
	5670	134	484	65	243.8/286.8 (MCS11)	13.67	22.16	-8.49	4.60	18.27	28.16	-9.89
	5710	142	484	65	243.8/286.8 (MCS11)	18.61	22.16	-3.55	4.60	23.21	28.16	-4.95
	5755	151	484	65	243.8/286.8 (MCS11)	16.83	30.00	-13.17	4.60	21.43	-	-
	5795	159	484	65	243.8/286.8 (MCS11)	18.98	30.00	-11.02	4.60	23.58	-	-

Table 7-34. ISED Antenna WF7a 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	996	67	510.4/600.5 (MCS11)	11.48	-	-	4.10	15.58	21.72	-6.14
	5290	58	996	67	510.4/600.5 (MCS11)	9.63	22.80	-13.17	4.80	14.43	28.80	-14.37
	5530	106	996	67	510.4/600.5 (MCS11)	9.36	22.16	-12.80	4.60	13.96	28.16	-14.20
	5690	138	996	67	510.4/600.5 (MCS11)	18.73	22.16	-3.43	4.60	23.33	28.16	-4.83
	5775	155	996	67	510.4/600.5 (MCS11)	14.85	30.00	-15.15	4.60	19.45	-	-

Table 7-35. ISED Antenna WF7a 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 41 of 172

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7.4.9 FCC Antenna WF8 Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	26	0	12.5/14.7 (MCS11)	9.61	23.98	-14.37
			26	4	12.5/14.7 (MCS11)	9.98	23.98	-14.00
			26	8	12.5/14.7 (MCS11)	9.95	23.98	-14.03
	5200	40	26	0	12.5/14.7 (MCS11)	9.59	23.98	-14.39
			26	4	12.5/14.7 (MCS11)	9.51	23.98	-14.47
			26	8	12.5/14.7 (MCS11)	9.57	23.98	-14.41
	5240	48	26	0	12.5/14.7 (MCS11)	9.99	23.98	-13.99
			26	4	12.5/14.7 (MCS11)	9.94	23.98	-14.04
			26	8	12.5/14.7 (MCS11)	9.55	23.98	-14.43
	5745	149	26	0	12.5/14.7 (MCS11)	9.72	30.00	-20.28
			26	4	12.5/14.7 (MCS11)	9.68	30.00	-20.32
			26	8	12.5/14.7 (MCS11)	9.85	30.00	-20.15
	5785	157	26	0	12.5/14.7 (MCS11)	9.75	30.00	-20.25
			26	4	12.5/14.7 (MCS11)	9.76	30.00	-20.24
			26	8	12.5/14.7 (MCS11)	9.92	30.00	-20.08
	5825	165	26	0	12.5/14.7 (MCS11)	9.59	30.00	-20.42
			26	4	12.5/14.7 (MCS11)	9.54	30.00	-20.46
			26	8	12.5/14.7 (MCS11)	9.72	30.00	-20.29

Table 7-36. FCC Antenna WF8 20MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	26	0	12.5/14.7 (MCS11)	9.64	23.98	-14.34
			26	8	12.5/14.7 (MCS11)	9.78	23.98	-14.20
			26	17	12.5/14.7 (MCS11)	9.74	23.98	-14.24
	5230	46	26	0	12.5/14.7 (MCS11)	9.83	23.98	-14.15
			26	8	12.5/14.7 (MCS11)	9.86	23.98	-14.12
			26	17	12.5/14.7 (MCS11)	9.59	23.98	-14.39
	5755	151	26	0	12.5/14.7 (MCS11)	9.74	30.00	-20.27
			26	8	12.5/14.7 (MCS11)	9.65	30.00	-20.35
			26	17	12.5/14.7 (MCS11)	9.93	30.00	-20.07
	5795	159	26	0	12.5/14.7 (MCS11)	9.84	30.00	-20.16
			26	8	12.5/14.7 (MCS11)	9.77	30.00	-20.23
			26	17	12.5/14.7 (MCS11)	9.97	30.00	-20.03

Table 7-37. FCC Antenna WF8 40MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	26	0	12.5/14.7 (MCS11)	9.99	23.98	-13.99
			26	18	12.5/14.7 (MCS11)	9.52	23.98	-14.46
			26	36	12.5/14.7 (MCS11)	9.77	23.98	-14.21
	5775	155	26	0	12.5/14.7 (MCS11)	9.76	30.00	-20.24
			26	18	12.5/14.7 (MCS11)	9.70	30.00	-20.30
			26	36	12.5/14.7 (MCS11)	9.91	30.00	-20.09

Table 7-38. FCC Antenna WF8 80MHz BW (UNII) Maximum Conducted Output Power (RU26)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 42 of 172

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7.4.10 ISED Antenna WF8 Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	26	0	12.5/14.7 (MCS11)	5.98	-	-	3.40	9.38	21.72	-12.34
			26	4	12.5/14.7 (MCS11)	5.95	-	-	3.40	9.35	21.72	-12.37
			26	8	12.5/14.7 (MCS11)	5.84	-	-	3.40	9.24	21.72	-12.48
	5200	40	26	0	12.5/14.7 (MCS11)	5.62	-	-	3.40	9.02	21.72	-12.70
			26	4	12.5/14.7 (MCS11)	5.89	-	-	3.40	9.29	21.72	-12.43
			26	8	12.5/14.7 (MCS11)	5.56	-	-	3.40	8.96	21.72	-12.76
	5240	48	26	0	12.5/14.7 (MCS11)	5.79	-	-	3.40	9.19	21.72	-12.53
			26	4	12.5/14.7 (MCS11)	5.95	-	-	3.40	9.35	21.72	-12.36
			26	8	12.5/14.7 (MCS11)	5.50	-	-	3.40	8.90	21.72	-12.82
	5745	149	26	0	12.5/14.7 (MCS11)	9.72	30.00	-20.28	4.90	14.62	-	-
			26	4	12.5/14.7 (MCS11)	9.68	30.00	-20.32	4.90	14.58	-	-
			26	8	12.5/14.7 (MCS11)	9.85	30.00	-20.15	4.90	14.75	-	-
	5785	157	26	0	12.5/14.7 (MCS11)	9.75	30.00	-20.25	4.90	14.65	-	-
			26	4	12.5/14.7 (MCS11)	9.76	30.00	-20.24	4.90	14.66	-	-
			26	8	12.5/14.7 (MCS11)	9.92	30.00	-20.08	4.90	14.82	-	-
	5825	165	26	0	12.5/14.7 (MCS11)	9.59	30.00	-20.42	4.90	14.49	-	-
			26	4	12.5/14.7 (MCS11)	9.54	30.00	-20.46	4.90	14.44	-	-
			26	8	12.5/14.7 (MCS11)	9.72	30.00	-20.29	4.90	14.62	-	-

Table 7-39. ISED Antenna WF8 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	26	0	12.5/14.7 (MCS11)	5.52	-	-	3.40	8.92	21.72	-12.80
			26	8	12.5/14.7 (MCS11)	5.77	-	-	3.40	9.17	21.72	-12.55
			26	17	12.5/14.7 (MCS11)	5.61	-	-	3.40	9.01	21.72	-12.71
	5230	46	26	0	12.5/14.7 (MCS11)	5.74	-	-	3.40	9.14	21.72	-12.58
			26	8	12.5/14.7 (MCS11)	5.93	-	-	3.40	9.33	21.72	-12.39
			26	17	12.5/14.7 (MCS11)	5.63	-	-	3.40	9.03	21.72	-12.69
	5755	151	26	0	12.5/14.7 (MCS11)	9.74	30.00	-20.27	4.90	14.64	-	-
			26	8	12.5/14.7 (MCS11)	9.65	30.00	-20.35	4.90	14.55	-	-
			26	17	12.5/14.7 (MCS11)	9.93	30.00	-20.07	4.90	14.83	-	-
	5795	159	26	0	12.5/14.7 (MCS11)	9.84	30.00	-20.16	4.90	14.74	-	-
			26	8	12.5/14.7 (MCS11)	9.77	30.00	-20.23	4.90	14.67	-	-
			26	17	12.5/14.7 (MCS11)	9.97	30.00	-20.03	4.90	14.87	-	-

Table 7-40. ISED Antenna WF8 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	26	0	12.5/14.7 (MCS11)	5.91	-	-	3.40	9.31	21.72	-12.41
			26	18	12.5/14.7 (MCS11)	5.91	-	-	3.40	9.31	21.72	-12.41
			26	36	12.5/14.7 (MCS11)	5.68	-	-	3.40	9.08	21.72	-12.64
	5775	155	26	0	12.5/14.7 (MCS11)	9.76	30.00	-20.24	4.90	14.66	-	-
			26	18	12.5/14.7 (MCS11)	9.70	30.00	-20.30	4.90	14.60	-	-
			26	36	12.5/14.7 (MCS11)	9.91	30.00	-20.09	4.90	14.81	-	-

Table 7-41. ISED Antenna WF8 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.4.11 FCC Antenna WF8 Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5260	52	52	37	25/29.4 (MCS11)	10.93	22.80	-11.87
			52	39	25/29.4 (MCS11)	10.96	22.80	-11.84
			52	40	25/29.4 (MCS11)	10.64	22.80	-12.15
	5300	60	52	37	25/29.4 (MCS11)	10.63	22.80	-12.17
			52	39	25/29.4 (MCS11)	10.57	22.80	-12.23
			52	40	25/29.4 (MCS11)	10.75	22.80	-12.05
	5320	64	52	37	25/29.4 (MCS11)	10.62	22.80	-12.18
			52	39	25/29.4 (MCS11)	10.71	22.80	-12.09
			52	40	25/29.4 (MCS11)	10.79	22.80	-12.01
	5500	100	52	37	25/29.4 (MCS11)	10.72	22.16	-11.44
			52	39	25/29.4 (MCS11)	10.63	22.16	-11.53
			52	40	25/29.4 (MCS11)	10.55	22.16	-11.61
	5580	116	52	37	25/29.4 (MCS11)	10.91	22.16	-11.25
			52	39	25/29.4 (MCS11)	10.86	22.16	-11.30
			52	40	25/29.4 (MCS11)	10.94	22.16	-11.21
	5720	144	52	37	25/29.4 (MCS11)	10.95	22.16	-11.21
			52	39	25/29.4 (MCS11)	10.92	22.16	-11.23
			52	40	25/29.4 (MCS11)	10.96	22.16	-11.20

Table 7-42. FCC Antenna WF8 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5270	54	52	37	25/29.4 (MCS11)	11.00	22.80	-11.80
			52	40	25/29.4 (MCS11)	10.81	22.80	-11.99
			52	44	25/29.4 (MCS11)	10.62	22.80	-12.18
	5310	62	52	37	25/29.4 (MCS11)	10.68	22.80	-12.12
			52	40	25/29.4 (MCS11)	10.97	22.80	-11.82
			52	44	25/29.4 (MCS11)	10.88	22.80	-11.92
	5510	102	52	37	25/29.4 (MCS11)	10.78	22.16	-11.38
			52	40	25/29.4 (MCS11)	10.75	22.16	-11.40
			52	44	25/29.4 (MCS11)	10.69	22.16	-11.47
	5550	110	52	37	25/29.4 (MCS11)	10.95	22.16	-11.21
			52	40	25/29.4 (MCS11)	10.65	22.16	-11.51
			52	44	25/29.4 (MCS11)	10.90	22.16	-11.26
	5710	142	52	37	25/29.4 (MCS11)	10.99	22.16	-11.17
			52	40	25/29.4 (MCS11)	10.78	22.16	-11.38
			52	44	25/29.4 (MCS11)	10.98	22.16	-11.17

Table 7-43. FCC Antenna WF8 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5290	58	52	37	25/29.4 (MCS11)	9.94	22.80	-12.85
			52	44	25/29.4 (MCS11)	9.99	22.80	-12.81
			52	52	25/29.4 (MCS11)	9.77	22.80	-13.03
	5530	106	52	37	25/29.4 (MCS11)	9.25	22.16	-12.90
			52	44	25/29.4 (MCS11)	9.49	22.16	-12.67
			52	52	25/29.4 (MCS11)	9.10	22.16	-13.05
	5610	122	52	37	25/29.4 (MCS11)	10.96	22.16	-11.20
			52	44	25/29.4 (MCS11)	10.73	22.16	-11.43
			52	52	25/29.4 (MCS11)	10.53	22.16	-11.63
	5690	138	52	37	25/29.4 (MCS11)	10.73	22.16	-11.43
			52	44	25/29.4 (MCS11)	10.53	22.16	-11.63
			52	52	25/29.4 (MCS11)	10.73	22.16	-11.42

Table 7-44. FCC Antenna WF8 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.4.12 ISED Antenna WF8 Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5260	52	52	37	25/29.4 (MCS11)	10.93	22.80	-11.87	4.60	15.53	28.80	-13.27
			52	39	25/29.4 (MCS11)	10.96	22.80	-11.84	4.60	15.56	28.80	-13.24
			52	40	25/29.4 (MCS11)	10.64	22.80	-12.15	4.60	15.24	28.80	-13.55
	5300	60	52	37	25/29.4 (MCS11)	10.63	22.80	-12.17	4.60	15.23	28.80	-13.57
			52	39	25/29.4 (MCS11)	10.57	22.80	-12.23	4.60	15.17	28.80	-13.63
			52	40	25/29.4 (MCS11)	10.75	22.80	-12.05	4.60	15.35	28.80	-13.45
	5320	64	52	37	25/29.4 (MCS11)	10.62	22.80	-12.18	4.60	15.22	28.80	-13.58
			52	39	25/29.4 (MCS11)	10.71	22.80	-12.09	4.60	15.31	28.80	-13.49
			52	40	25/29.4 (MCS11)	10.79	22.80	-12.01	4.60	15.39	28.80	-13.41
	5500	100	52	37	25/29.4 (MCS11)	10.72	22.16	-11.44	5.10	15.82	28.16	-12.34
			52	39	25/29.4 (MCS11)	10.63	22.16	-11.53	5.10	15.73	28.16	-12.43
			52	40	25/29.4 (MCS11)	10.55	22.16	-11.61	5.10	15.65	28.16	-12.51
	5580	116	52	37	25/29.4 (MCS11)	10.91	22.16	-11.25	5.10	16.01	28.16	-12.15
			52	39	25/29.4 (MCS11)	10.86	22.16	-11.30	5.10	15.96	28.16	-12.20
			52	40	25/29.4 (MCS11)	10.94	22.16	-11.21	5.10	16.04	28.16	-12.11
	5720	144	52	37	25/29.4 (MCS11)	10.95	22.16	-11.21	5.10	16.05	28.16	-12.11
			52	39	25/29.4 (MCS11)	10.92	22.16	-11.23	5.10	16.02	28.16	-12.13
			52	40	25/29.4 (MCS11)	10.96	22.16	-11.20	5.10	16.06	28.16	-12.10

Table 7-45. ISED Antenna WF8 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5270	54	52	37	25/29.4 (MCS11)	11.00	22.80	-11.80	4.60	15.60	28.80	-13.20
			52	40	25/29.4 (MCS11)	10.81	22.80	-11.99	4.60	15.41	28.80	-13.39
			52	44	25/29.4 (MCS11)	10.62	22.80	-12.18	4.60	15.22	28.80	-13.58
	5310	62	52	37	25/29.4 (MCS11)	10.68	22.80	-12.12	4.60	15.28	28.80	-13.52
			52	40	25/29.4 (MCS11)	10.97	22.80	-11.82	4.60	15.57	28.80	-13.22
			52	44	25/29.4 (MCS11)	10.88	22.80	-11.92	4.60	15.48	28.80	-13.32
	5510	102	52	37	25/29.4 (MCS11)	10.78	22.16	-11.38	5.10	15.88	28.16	-12.28
			52	40	25/29.4 (MCS11)	10.75	22.16	-11.40	5.10	15.85	28.16	-12.30
			52	44	25/29.4 (MCS11)	10.69	22.16	-11.47	5.10	15.79	28.16	-12.37
	5550	110	52	37	25/29.4 (MCS11)	10.95	22.16	-11.21	5.10	16.05	28.16	-12.11
			52	40	25/29.4 (MCS11)	10.65	22.16	-11.51	5.10	15.75	28.16	-12.41
			52	44	25/29.4 (MCS11)	10.90	22.16	-11.26	5.10	16.00	28.16	-12.16
	5710	142	52	37	25/29.4 (MCS11)	10.99	22.16	-11.17	5.10	16.09	28.16	-12.07
			52	40	25/29.4 (MCS11)	10.78	22.16	-11.38	5.10	15.88	28.16	-12.28
			52	44	25/29.4 (MCS11)	10.98	22.16	-11.17	5.10	16.08	28.16	-12.07

Table 7-46. ISED Antenna WF8 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5290	58	52	37	25/29.4 (MCS11)	9.94	22.80	-12.85	4.60	14.54	28.80	-14.25
			52	44	25/29.4 (MCS11)	9.99	22.80	-12.81	4.60	14.59	28.80	-14.21
			52	52	25/29.4 (MCS11)	9.77	22.80	-13.03	4.60	14.37	28.80	-14.43
	5530	106	52	37	25/29.4 (MCS11)	9.25	22.16	-12.90	5.10	14.35	28.16	-13.80
			52	44	25/29.4 (MCS11)	9.49	22.16	-12.67	5.10	14.59	28.16	-13.57
			52	52	25/29.4 (MCS11)	9.10	22.16	-13.05	5.10	14.20	28.16	-13.95
	5690	138	52	37	25/29.4 (MCS11)	10.73	22.16	-11.43	5.10	15.83	28.16	-12.33
			52	44	25/29.4 (MCS11)	10.53	22.16	-11.63	5.10	15.63	28.16	-12.53
			52	52	25/29.4 (MCS11)	10.73	22.16	-11.42	5.10	15.83	28.16	-12.32

Table 7-47. ISED Antenna WF8 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.4.13 FCC Antenna WF8 Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	106	53	53.1/62.5 (MCS11)	11.99	23.98	-11.99
			106	54	53.1/62.5 (MCS11)	11.62	23.98	-12.36
	5200	40	106	53	53.1/62.5 (MCS11)	11.72	23.98	-12.26
			106	54	53.1/62.5 (MCS11)	11.70	23.98	-12.28
	5240	48	106	53	53.1/62.5 (MCS11)	11.63	23.98	-12.35
			106	54	53.1/62.5 (MCS11)	11.71	23.98	-12.27
	5260	52	106	53	53.1/62.5 (MCS11)	11.80	22.80	-11.00
			106	54	53.1/62.5 (MCS11)	11.96	22.80	-10.84
	5300	60	106	53	53.1/62.5 (MCS11)	11.90	22.80	-10.90
			106	54	53.1/62.5 (MCS11)	11.48	22.80	-11.31
	5320	64	106	53	53.1/62.5 (MCS11)	11.94	22.80	-10.86
			106	54	53.1/62.5 (MCS11)	11.54	22.80	-11.25
	5500	100	106	53	53.1/62.5 (MCS11)	11.94	22.16	-10.21
			106	54	53.1/62.5 (MCS11)	11.77	22.16	-10.39
	5580	116	106	53	53.1/62.5 (MCS11)	11.61	22.16	-10.55
			106	54	53.1/62.5 (MCS11)	11.64	22.16	-10.51
	5720	144	106	53	53.1/62.5 (MCS11)	11.58	22.16	-10.57
			106	54	53.1/62.5 (MCS11)	11.58	22.16	-10.57
	5745	149	106	53	53.1/62.5 (MCS11)	11.86	30.00	-18.14
			106	54	53.1/62.5 (MCS11)	11.95	30.00	-18.05
	5785	157	106	53	53.1/62.5 (MCS11)	11.88	30.00	-18.12
			106	54	53.1/62.5 (MCS11)	11.98	30.00	-18.02
	5825	165	106	53	53.1/62.5 (MCS11)	11.84	30.00	-18.16
			106	54	53.1/62.5 (MCS11)	11.94	30.00	-18.06

Table 7-48. FCC Antenna WF8 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	242	61	121.9/143.4 (MCS11)	14.67	23.98	-9.31
			242	62	121.9/143.4 (MCS11)	14.72	23.98	-9.26
	5230	46	242	61	121.9/143.4 (MCS11)	18.94	23.98	-5.04
			242	62	121.9/143.4 (MCS11)	18.60	23.98	-5.38
	5270	54	242	61	121.9/143.4 (MCS11)	18.62	22.80	-4.17
			242	62	121.9/143.4 (MCS11)	18.71	22.80	-4.09
	5310	62	242	61	121.9/143.4 (MCS11)	15.23	22.80	-7.56
			242	62	121.9/143.4 (MCS11)	15.26	22.80	-7.54
	5510	102	242	61	121.9/143.4 (MCS11)	14.48	22.16	-7.67
			242	62	121.9/143.4 (MCS11)	14.48	22.16	-7.67
	5550	110	242	61	121.9/143.4 (MCS11)	17.76	22.16	-4.40
			242	62	121.9/143.4 (MCS11)	17.81	22.16	-4.35
	5590	118	242	61	121.9/143.4 (MCS11)	18.87	22.16	-3.28
			242	62	121.9/143.4 (MCS11)	18.88	22.16	-3.28
	5630	126	242	61	121.9/143.4 (MCS11)	18.54	22.16	-3.62
			242	62	121.9/143.4 (MCS11)	18.90	22.16	-3.26
	5670	134	242	61	121.9/143.4 (MCS11)	15.07	22.16	-7.09
			242	62	121.9/143.4 (MCS11)	15.03	22.16	-7.13
	5710	142	242	61	121.9/143.4 (MCS11)	12.79	22.16	-9.37
			242	62	121.9/143.4 (MCS11)	12.98	22.16	-9.18
	5755	151	242	61	121.9/143.4 (MCS11)	18.73	30.00	-11.27
			242	62	121.9/143.4 (MCS11)	18.96	30.00	-11.04
	5795	159	242	61	121.9/143.4 (MCS11)	19.00	30.00	-11.00
			242	62	121.9/143.4 (MCS11)	18.96	30.00	-11.04

Table 7-49. FCC Antenna WF8 40MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	242	61	121.9/143.4 (MCS11)	14.72	23.98	-9.26
			242	62	121.9/143.4 (MCS11)	14.72	23.98	-9.26
			242	64	121.9/143.4 (MCS11)	14.84	23.98	-9.14
	5290	58	242	61	121.9/143.4 (MCS11)	15.22	22.80	-7.57
			242	62	121.9/143.4 (MCS11)	15.31	22.80	-7.49
			242	64	121.9/143.4 (MCS11)	15.33	22.80	-7.46
	5530	106	242	61	121.9/143.4 (MCS11)	14.23	22.16	-7.93
			242	62	121.9/143.4 (MCS11)	14.12	22.16	-8.04
			242	64	121.9/143.4 (MCS11)	14.22	22.16	-7.93
	5610	122	484	65	243.8/286.8 (MCS11)	17.97	22.16	-4.18
			484	66	243.8/286.8 (MCS11)	17.97	22.16	-4.19
			484	65	243.8/286.8 (MCS11)	13.87	22.16	-8.29
	5690	138	484	66	243.8/286.8 (MCS11)	13.77	22.16	-8.39
			484	65	243.8/286.8 (MCS11)	16.37	30.00	-13.63
			484	66	243.8/286.8 (MCS11)	16.42	30.00	-13.58

Table 7-50. FCC Antenna WF8 80MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 48 of 172

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7.4.14 ISED Antenna WF8 Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	106	53	53.1/62.5 (MCS11)	11.51	-	-	3.40	14.91	21.72	-6.80
			106	54	53.1/62.5 (MCS11)	11.99	-	-	3.40	15.39	21.72	-6.33
	5200	40	106	53	53.1/62.5 (MCS11)	11.62	-	-	3.40	15.02	21.72	-6.70
			106	54	53.1/62.5 (MCS11)	11.59	-	-	3.40	14.99	21.72	-6.73
	5240	48	106	53	53.1/62.5 (MCS11)	11.97	-	-	3.40	15.37	21.72	-6.35
			106	54	53.1/62.5 (MCS11)	11.55	-	-	3.40	14.95	21.72	-6.77
	5260	52	106	53	53.1/62.5 (MCS11)	11.80	22.80	-11.00	4.60	16.40	28.80	-12.40
			106	54	53.1/62.5 (MCS11)	11.96	22.80	-10.84	4.60	16.56	28.80	-12.24
	5300	60	106	53	53.1/62.5 (MCS11)	11.90	22.80	-10.90	4.60	16.50	28.80	-12.30
			106	54	53.1/62.5 (MCS11)	11.48	22.80	-11.31	4.60	16.08	28.80	-12.71
	5320	64	106	53	53.1/62.5 (MCS11)	11.94	22.80	-10.86	4.60	16.54	28.80	-12.26
			106	54	53.1/62.5 (MCS11)	11.54	22.80	-11.25	4.60	16.14	28.80	-12.65
	5500	100	106	53	53.1/62.5 (MCS11)	11.94	22.16	-10.21	5.10	17.04	28.16	-11.11
			106	54	53.1/62.5 (MCS11)	11.77	22.16	-10.39	5.10	16.87	28.16	-11.29
	5580	116	106	53	53.1/62.5 (MCS11)	11.61	22.16	-10.55	5.10	16.71	28.16	-11.45
			106	54	53.1/62.5 (MCS11)	11.64	22.16	-10.51	5.10	16.74	28.16	-11.41
	5720	144	106	53	53.1/62.5 (MCS11)	11.58	22.16	-10.57	5.10	16.68	28.16	-11.47
			106	54	53.1/62.5 (MCS11)	11.58	22.16	-10.57	5.10	16.68	28.16	-11.47
	5745	149	106	53	53.1/62.5 (MCS11)	11.86	30.00	-18.14	4.90	16.76	-	-
			106	54	53.1/62.5 (MCS11)	11.95	30.00	-18.05	4.90	16.85	-	-
	5785	157	106	53	53.1/62.5 (MCS11)	11.88	30.00	-18.12	4.90	16.78	-	-
			106	54	53.1/62.5 (MCS11)	11.98	30.00	-18.02	4.90	16.88	-	-
	5825	165	106	53	53.1/62.5 (MCS11)	11.84	30.00	-18.16	4.90	16.74	-	-
			106	54	53.1/62.5 (MCS11)	11.94	30.00	-18.06	4.90	16.84	-	-

Table 7-51. ISED Antenna WF8 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	242	61	121.9/143.4 (MCS11)	14.80	-	-	3.40	18.20	21.72	-3.52
			242	62	121.9/143.4 (MCS11)	14.92	-	-	3.40	18.32	21.72	-3.40
	5230	46	242	61	121.9/143.4 (MCS11)	15.24	-	-	3.40	18.64	21.72	-3.08
			242	62	121.9/143.4 (MCS11)	15.34	-	-	3.40	18.74	21.72	-2.98
	5270	54	242	61	121.9/143.4 (MCS11)	18.62	22.80	-4.17	4.60	23.22	28.80	-5.57
			242	62	121.9/143.4 (MCS11)	18.71	22.80	-4.09	4.60	23.31	28.80	-5.49
	5310	62	242	61	121.9/143.4 (MCS11)	15.23	22.80	-7.56	4.60	19.83	28.80	-8.96
			242	62	121.9/143.4 (MCS11)	15.26	22.80	-7.54	4.60	19.86	28.80	-8.94
	5510	102	242	61	121.9/143.4 (MCS11)	14.48	22.16	-7.67	5.10	19.58	28.16	-8.57
			242	62	121.9/143.4 (MCS11)	14.48	22.16	-7.67	5.10	19.58	28.16	-8.57
	5550	110	242	61	121.9/143.4 (MCS11)	17.76	22.16	-4.40	5.10	22.86	28.16	-5.30
			242	62	121.9/143.4 (MCS11)	17.81	22.16	-4.35	5.10	22.91	28.16	-5.25
	5670	134	242	61	121.9/143.4 (MCS11)	15.07	22.16	-7.09	5.10	20.17	28.16	-7.99
			242	62	121.9/143.4 (MCS11)	15.03	22.16	-7.13	5.10	20.13	28.16	-8.03
	5710	142	242	61	121.9/143.4 (MCS11)	12.79	22.16	-9.37	5.10	17.89	28.16	-10.27
			242	62	121.9/143.4 (MCS11)	12.98	22.16	-9.18	5.10	18.08	28.16	-10.08
	5755	151	242	61	121.9/143.4 (MCS11)	18.73	30.00	-11.27	4.90	23.63	-	-
			242	62	121.9/143.4 (MCS11)	18.96	30.00	-11.04	4.90	23.86	-	-
	5795	159	242	61	121.9/143.4 (MCS11)	19.00	30.00	-11.00	4.90	23.90	-	-
			242	62	121.9/143.4 (MCS11)	18.96	30.00	-11.04	4.90	23.86	-	-

Table 7-52. ISED Antenna WF8 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 49 of 172

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	242	61	121.9/143.4 (MCS11)	14.77	-	-	3.40	18.17	21.72	-3.55
			242	62	121.9/143.4 (MCS11)	14.69	-	-	3.40	18.09	21.72	-3.63
			242	64	121.9/143.4 (MCS11)	14.80	-	-	3.40	18.20	21.72	-3.52
	5290	58	242	61	121.9/143.4 (MCS11)	15.22	22.80	-7.57	4.60	19.82	28.80	-8.97
			242	62	121.9/143.4 (MCS11)	15.31	22.80	-7.49	4.60	19.91	28.80	-8.89
			242	64	121.9/143.4 (MCS11)	15.33	22.80	-7.46	4.60	19.93	28.80	-8.86
	5530	106	242	61	121.9/143.4 (MCS11)	14.23	22.16	-7.93	5.10	19.33	28.16	-8.83
			242	62	121.9/143.4 (MCS11)	14.12	22.16	-8.04	5.10	19.22	28.16	-8.94
			242	64	121.9/143.4 (MCS11)	14.22	22.16	-7.93	5.10	19.32	28.16	-8.83
	5690	138	484	65	243.8/286.8 (MCS11)	13.87	22.16	-8.29	5.10	18.97	28.16	-9.19
			484	66	243.8/286.8 (MCS11)	13.77	22.16	-8.39	5.10	18.87	28.16	-9.29
	5775	155	484	65	243.8/286.8 (MCS11)	16.37	30.00	-13.63	4.90	21.27	-	-
			484	66	243.8/286.8 (MCS11)	16.42	30.00	-13.58	4.90	21.32	-	-
			484	66	243.8/286.8 (MCS11)	16.42	30.00	-13.58	4.90	21.32	-	-

Table 7-53. ISSED Antenna WF8 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 50 of 172

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7.4.15 FCC Antenna WF8 Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	242	61	121.9/143.4 (MCS11)	14.79	23.98	-9.19
	5200	40	242	61	121.9/143.4 (MCS11)	17.91	23.98	-6.07
	5240	48	242	61	121.9/143.4 (MCS11)	18.82	23.98	-5.16
	5260	52	242	61	121.9/143.4 (MCS11)	18.86	22.80	-3.94
	5300	60	242	61	121.9/143.4 (MCS11)	17.97	22.80	-4.83
	5320	64	242	61	121.9/143.4 (MCS11)	15.05	22.80	-7.75
	5500	100	242	61	121.9/143.4 (MCS11)	14.43	22.16	-7.73
	5520	104	242	61	121.9/143.4 (MCS11)	15.65	22.16	-6.51
	5540	108	242	61	121.9/143.4 (MCS11)	17.89	22.16	-4.26
	5560	112	242	61	121.9/143.4 (MCS11)	18.97	22.16	-3.19
	5580	116	242	61	121.9/143.4 (MCS11)	18.83	22.16	-3.33
	5640	128	242	61	121.9/143.4 (MCS11)	18.56	22.16	-3.60
	5660	132	242	61	121.9/143.4 (MCS11)	17.88	22.16	-4.28
	5680	136	242	61	121.9/143.4 (MCS11)	15.25	22.16	-6.91
	5700	140	242	61	121.9/143.4 (MCS11)	12.82	22.16	-9.33
	5720	144	242	61	121.9/143.4 (MCS11)	18.72	22.16	-3.44
	5745	149	242	61	121.9/143.4 (MCS11)	18.92	30.00	-11.08
	5785	157	242	61	121.9/143.4 (MCS11)	18.68	30.00	-11.32
	5825	165	242	61	121.9/143.4 (MCS11)	18.78	30.00	-11.23

Table 7-54. FCC Antenna WF8 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	484	65	243.8/286.8 (MCS11)	13.91	23.98	-10.07
	5230	46	484	65	243.8/286.8 (MCS11)	17.96	23.98	-6.02
	5270	54	484	65	243.8/286.8 (MCS11)	17.48	22.80	-5.32
	5310	62	484	65	243.8/286.8 (MCS11)	12.08	22.80	-10.71
	5510	102	484	65	243.8/286.8 (MCS11)	11.99	22.16	-10.16
	5550	110	484	65	243.8/286.8 (MCS11)	16.30	22.16	-5.86
	5590	118	484	65	243.8/286.8 (MCS11)	19.00	22.16	-3.16
	5630	126	484	65	243.8/286.8 (MCS11)	17.53	22.16	-4.63
	5670	134	484	65	243.8/286.8 (MCS11)	13.60	22.16	-8.55
	5710	142	484	65	243.8/286.8 (MCS11)	18.81	22.16	-3.35
	5755	151	484	65	243.8/286.8 (MCS11)	16.84	30.00	-13.16
	5795	159	484	65	243.8/286.8 (MCS11)	18.55	30.00	-11.45

Table 7-55. FCC Antenna WF8 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	996	67	510.4/600.5 (MCS11)	11.47	23.98	-12.51
	5290	58	996	67	510.4/600.5 (MCS11)	9.93	22.80	-12.87
	5530	106	996	67	510.4/600.5 (MCS11)	9.46	22.16	-12.69
	5610	122	996	67	510.4/600.5 (MCS11)	15.31	22.16	-6.85
	5690	138	996	67	510.4/600.5 (MCS11)	18.91	22.16	-3.25
	5775	155	996	67	510.4/600.5 (MCS11)	14.79	30.00	-15.21

Table 7-56. FCC Antenna WF8 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.4.16 ISED Antenna WF8 Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	242	61	121.9/143.4 (MCS11)	14.83	-	-	3.40	18.23	21.72	-3.49
	5200	40	242	61	121.9/143.4 (MCS11)	15.46	-	-	3.40	18.86	21.72	-2.86
	5240	48	242	61	121.9/143.4 (MCS11)	15.34	-	-	3.40	18.74	21.72	-2.98
	5260	52	242	61	121.9/143.4 (MCS11)	18.86	22.80	-3.94	4.60	23.46	28.80	-5.34
	5300	60	242	61	121.9/143.4 (MCS11)	17.97	22.80	-4.83	4.60	22.57	28.80	-6.23
	5320	64	242	61	121.9/143.4 (MCS11)	15.05	22.80	-7.75	4.60	19.65	28.80	-9.15
	5500	100	242	61	121.9/143.4 (MCS11)	14.43	22.16	-7.73	5.10	19.53	28.16	-8.63
	5520	104	242	61	121.9/143.4 (MCS11)	15.65	22.16	-6.51	5.10	20.75	28.16	-7.41
	5540	108	242	61	121.9/143.4 (MCS11)	17.89	22.16	-4.26	5.10	22.99	28.16	-5.16
	5580	116	242	61	121.9/143.4 (MCS11)	18.97	22.16	-3.19	5.10	24.07	28.16	-4.09
	5580	116	242	61	121.9/143.4 (MCS11)	18.83	22.16	-3.33	5.10	23.93	28.16	-4.23
	5660	132	242	61	121.9/143.4 (MCS11)	17.88	22.16	-4.28	5.10	22.98	28.16	-5.18
	5680	136	242	61	121.9/143.4 (MCS11)	15.25	22.16	-6.91	5.10	20.35	28.16	-7.81
	5700	140	242	61	121.9/143.4 (MCS11)	12.82	22.16	-9.33	5.10	17.92	28.16	-10.23
	5720	144	242	61	121.9/143.4 (MCS11)	18.72	22.16	-3.44	5.10	23.82	28.16	-4.34
	5745	149	242	61	121.9/143.4 (MCS11)	18.92	30.00	-11.08	4.90	23.82	-	-
	5785	157	242	61	121.9/143.4 (MCS11)	18.68	30.00	-11.32	4.90	23.58	-	-
	5825	165	242	61	121.9/143.4 (MCS11)	18.78	30.00	-11.23	4.90	23.68	-	-

Table 7-57. ISED Antenna WF8 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	484	65	243.8/286.8 (MCS11)	13.95	-	-	3.40	17.35	21.72	-4.37
	5230	46	484	65	243.8/286.8 (MCS11)	17.45	-	-	3.40	20.85	21.72	-0.87
	5270	54	484	65	243.8/286.8 (MCS11)	17.48	22.80	-5.32	4.60	22.08	28.80	-6.72
	5310	62	484	65	243.8/286.8 (MCS11)	12.08	22.80	-10.71	4.60	16.68	28.80	-12.11
	5510	102	484	65	243.8/286.8 (MCS11)	11.99	22.16	-10.16	5.10	17.09	28.16	-11.06
	5550	110	484	65	243.8/286.8 (MCS11)	16.30	22.16	-5.86	5.10	21.40	28.16	-6.76
	5670	134	484	65	243.8/286.8 (MCS11)	13.60	22.16	-8.55	5.10	18.70	28.16	-9.45
	5710	142	484	65	243.8/286.8 (MCS11)	18.81	22.16	-3.35	5.10	23.91	28.16	-4.25
	5755	151	484	65	243.8/286.8 (MCS11)	16.84	30.00	-13.16	4.90	21.74	-	-
	5795	159	484	65	243.8/286.8 (MCS11)	18.55	30.00	-11.45	4.90	23.45	-	-

Table 7-58. ISED Antenna WF8 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	996	67	510.4/600.5 (MCS11)	11.06	-	-	3.40	14.46	21.72	-7.25
	5290	58	996	67	510.4/600.5 (MCS11)	9.93	22.80	-12.87	4.60	14.53	28.80	-14.27
	5530	106	996	67	510.4/600.5 (MCS11)	9.46	22.16	-12.69	5.10	14.56	28.16	-13.59
	5690	138	996	67	510.4/600.5 (MCS11)	18.91	22.16	-3.25	5.10	24.01	28.16	-4.15
	5775	155	996	67	510.4/600.5 (MCS11)	14.79	30.00	-15.21	4.90	19.69	-	-

Table 7-59. ISED Antenna WF8 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.4.17 FCC CDD/SDM Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit	Conducted Power Margin
							Antenna WF7a	Antenna WF8	Summed	[dBm]	[dB]
	5180	36	SDM	26	0	25/29.4 (MCS11)	8.49	8.13	11.32	23.98	-12.66
			SDM	26	4	25/29.4 (MCS11)	8.50	8.04	11.28	23.98	-12.70
			SDM	26	8	25/29.4 (MCS11)	8.13	8.17	11.16	23.98	-12.82
	5200	40	SDM	26	0	25/29.4 (MCS11)	8.02	8.22	11.13	23.98	-12.85
			SDM	26	4	25/29.4 (MCS11)	8.48	8.12	11.31	23.98	-12.67
			SDM	26	8	25/29.4 (MCS11)	8.10	8.17	11.14	23.98	-12.84
	5240	48	SDM	26	0	25/29.4 (MCS11)	8.23	8.03	11.14	23.98	-12.84
			SDM	26	4	25/29.4 (MCS11)	8.21	8.03	11.13	23.98	-12.85
SDM			26	8	25/29.4 (MCS11)	8.18	8.15	11.18	23.98	-12.80	
5745	149	CDD	26	0	25/29.4 (MCS11)	9.93	9.73	12.84	30.00	-17.16	
		CDD	26	4	25/29.4 (MCS11)	9.84	9.61	12.74	30.00	-17.26	
		CDD	26	8	25/29.4 (MCS11)	9.94	9.80	12.88	30.00	-17.12	
5785	157	CDD	26	0	25/29.4 (MCS11)	9.51	9.77	12.65	30.00	-17.35	
		CDD	26	4	25/29.4 (MCS11)	9.93	9.87	12.91	30.00	-17.09	
		CDD	26	8	25/29.4 (MCS11)	9.53	9.91	12.73	30.00	-17.27	
5825	165	CDD	26	0	25/29.4 (MCS11)	9.55	9.90	12.74	30.00	-17.26	
		CDD	26	4	25/29.4 (MCS11)	9.86	9.97	12.92	30.00	-17.08	
		CDD	26	8	25/29.4 (MCS11)	9.88	9.66	12.78	30.00	-17.22	

Table 7-60. FCC CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
	5190	38	SDM	26	0	25/29.4 (MCS11)	8.11	8.15	11.14	23.98	-12.84
			SDM	26	8	25/29.4 (MCS11)	8.38	8.29	11.34	23.98	-12.64
			SDM	26	17	25/29.4 (MCS11)	8.28	8.32	11.31	23.98	-12.67
	5230	46	SDM	26	0	25/29.4 (MCS11)	8.21	8.40	11.32	23.98	-12.66
			SDM	26	8	25/29.4 (MCS11)	8.41	8.42	11.42	23.98	-12.56
			SDM	26	17	25/29.4 (MCS11)	8.36	8.19	11.29	23.98	-12.69
	5755	151	CDD	26	0	25/29.4 (MCS11)	9.60	9.78	12.70	30.00	-17.30
			CDD	26	8	25/29.4 (MCS11)	9.68	9.71	12.70	30.00	-17.30
CDD			26	17	25/29.4 (MCS11)	9.63	9.84	12.75	30.00	-17.25	
5795	159	CDD	26	0	25/29.4 (MCS11)	9.68	9.83	12.77	30.00	-17.23	
		CDD	26	8	25/29.4 (MCS11)	9.74	9.67	12.71	30.00	-17.29	
		CDD	26	17	25/29.4 (MCS11)	9.59	9.96	12.79	30.00	-17.21	

Table 7-61. FCC CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
	5210	42	SDM	26	0	25/29.4 (MCS11)	8.45	8.50	11.48	23.98	-12.50
			SDM	26	18	25/29.4 (MCS11)	8.02	8.12	11.08	23.98	-12.90
			SDM	26	36	25/29.4 (MCS11)	8.13	8.30	11.23	23.98	-12.75
	5775	155	CDD	26	0	25/29.4 (MCS11)	9.96	9.78	12.88	30.00	-17.12
			CDD	26	18	25/29.4 (MCS11)	9.88	9.70	12.80	30.00	-17.20
			CDD	26	36	25/29.4 (MCS11)	9.95	9.92	12.95	30.00	-17.05

Table 7-62. FCC CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power (RU26)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 53 of 172

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7.4.18 ISED CDD/SDM Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5180	36	SDM	26	0	25/29.4 (MCS11)	3.45	3.19	6.33	-	-	3.76	10.09	21.72	-11.62
			SDM	26	4	25/29.4 (MCS11)	3.24	3.06	6.16	-	-	3.76	9.92	21.72	-11.79
			SDM	26	8	25/29.4 (MCS11)	3.24	3.27	6.26	-	-	3.76	10.02	21.72	-11.69
	5200	40	SDM	26	0	25/29.4 (MCS11)	3.38	3.25	6.32	-	-	3.76	10.08	21.72	-11.63
			SDM	26	4	25/29.4 (MCS11)	3.31	3.17	6.25	-	-	3.76	10.01	21.72	-11.70
			SDM	26	8	25/29.4 (MCS11)	3.16	3.20	6.19	-	-	3.76	9.95	21.72	-11.76
	5240	48	SDM	26	0	25/29.4 (MCS11)	3.26	3.46	6.37	-	-	3.76	10.13	21.72	-11.58
			SDM	26	4	25/29.4 (MCS11)	3.09	3.08	6.09	-	-	3.76	9.85	21.72	-11.86
			SDM	26	8	25/29.4 (MCS11)	3.33	3.45	6.40	-	-	3.76	10.16	21.72	-11.55
	5745	149	CDD	26	0	25/29.4 (MCS11)	9.93	9.73	12.84	30.00	-17.16	4.90	17.74	-	-
			CDD	26	4	25/29.4 (MCS11)	9.84	9.61	12.74	30.00	-17.26	4.90	17.64	-	-
			CDD	26	8	25/29.4 (MCS11)	9.94	9.80	12.88	30.00	-17.12	4.90	17.78	-	-
	5785	157	CDD	26	0	25/29.4 (MCS11)	9.51	9.77	12.65	30.00	-17.35	4.90	17.55	-	-
			CDD	26	4	25/29.4 (MCS11)	9.93	9.87	12.91	30.00	-17.09	4.90	17.81	-	-
			CDD	26	8	25/29.4 (MCS11)	9.53	9.91	12.73	30.00	-17.27	4.90	17.63	-	-
	5825	165	CDD	26	0	25/29.4 (MCS11)	9.55	9.90	12.74	30.00	-17.26	4.90	17.64	-	-
			CDD	26	4	25/29.4 (MCS11)	9.86	9.97	12.92	30.00	-17.08	4.90	17.82	-	-
			CDD	26	8	25/29.4 (MCS11)	9.88	9.66	12.78	30.00	-17.22	4.90	17.68	-	-

Table 7-63. ISED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5190	38	SDM	26	0	25/29.4 (MCS11)	3.42	3.23	6.33	-	-	3.76	10.09	21.72	-11.62
			SDM	26	8	25/29.4 (MCS11)	3.45	3.42	6.45	-	-	3.76	10.21	21.72	-11.50
			SDM	26	17	25/29.4 (MCS11)	3.17	3.34	6.27	-	-	3.76	10.03	21.72	-11.68
	5230	46	SDM	26	0	25/29.4 (MCS11)	3.30	3.21	6.26	-	-	3.76	10.02	21.72	-11.69
			SDM	26	8	25/29.4 (MCS11)	3.23	3.17	6.21	-	-	3.76	9.97	21.72	-11.74
			SDM	26	17	25/29.4 (MCS11)	3.31	3.49	6.41	-	-	3.76	10.17	21.72	-11.54
	5755	151	CDD	26	0	25/29.4 (MCS11)	9.60	9.78	12.70	30.00	-17.30	4.90	17.60	-	-
			CDD	26	8	25/29.4 (MCS11)	9.68	9.71	12.70	30.00	-17.30	4.90	17.60	-	-
			CDD	26	17	25/29.4 (MCS11)	9.63	9.84	12.75	30.00	-17.25	4.90	17.65	-	-
	5795	159	CDD	26	0	25/29.4 (MCS11)	9.68	9.83	12.77	30.00	-17.23	4.90	17.67	-	-
			CDD	26	8	25/29.4 (MCS11)	9.74	9.67	12.71	30.00	-17.29	4.90	17.61	-	-
			CDD	26	17	25/29.4 (MCS11)	9.59	9.96	12.79	30.00	-17.21	4.90	17.69	-	-

Table 7-64. ISED CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5210	42	SDM	26	0	25/29.4 (MCS11)	3.06	3.19	6.13	-	-	3.76	9.89	21.72	-11.82
			SDM	26	18	25/29.4 (MCS11)	3.08	3.16	6.13	-	-	3.76	9.89	21.72	-11.82
			SDM	26	36	25/29.4 (MCS11)	3.24	3.31	6.28	-	-	3.76	10.04	21.72	-11.67
	5775	155	CDD	26	0	25/29.4 (MCS11)	9.96	9.78	12.88	30.00	-17.12	4.90	17.78	-	-
			CDD	26	18	25/29.4 (MCS11)	9.88	9.70	12.80	30.00	-17.20	4.90	17.70	-	-
			CDD	26	36	25/29.4 (MCS11)	9.95	9.92	12.95	30.00	-17.05	4.90	17.85	-	-

Table 7-65. ISED CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 54 of 172

7.4.19 FCC CDD/SDM Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
5260	52		SDM	52	37	50/58.8 (MCS11)	10.64	10.93	13.80	22.80	-9.00
			SDM	52	39	50/58.8 (MCS11)	10.67	10.54	13.62	22.80	-9.18
			SDM	52	40	50/58.8 (MCS11)	10.76	10.69	13.74	22.80	-9.06
5300	60		SDM	52	37	50/58.8 (MCS11)	10.95	10.68	13.83	22.80	-8.97
			SDM	52	39	50/58.8 (MCS11)	10.90	10.64	13.78	22.80	-9.02
			SDM	52	40	50/58.8 (MCS11)	10.56	10.85	13.71	22.80	-9.09
5320	64		SDM	52	37	50/58.8 (MCS11)	10.95	10.73	13.85	22.80	-8.95
			SDM	52	39	50/58.8 (MCS11)	10.96	10.78	13.88	22.80	-8.92
			SDM	52	40	50/58.8 (MCS11)	10.99	10.91	13.96	22.80	-8.84
5500	100		SDM	52	37	50/58.8 (MCS11)	10.51	10.75	13.64	22.16	-8.52
			SDM	52	39	50/58.8 (MCS11)	11.00	10.68	13.85	22.16	-8.31
			SDM	52	40	50/58.8 (MCS11)	10.56	10.58	13.58	22.16	-8.58
5580	116		SDM	52	37	50/58.8 (MCS11)	10.77	10.93	13.86	22.16	-8.30
			SDM	52	39	50/58.8 (MCS11)	10.85	10.97	13.82	22.16	-8.34
			SDM	52	40	50/58.8 (MCS11)	10.85	10.93	13.90	22.16	-8.26
5720	144		SDM	52	37	50/58.8 (MCS11)	10.61	10.98	13.81	22.16	-8.35
			SDM	52	39	50/58.8 (MCS11)	10.52	10.84	13.69	22.16	-8.47
			SDM	52	40	50/58.8 (MCS11)	10.60	10.52	13.57	22.16	-8.59

Table 7-66. FCC SDM 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
5270	54		SDM	52	37	50/58.8 (MCS11)	10.64	10.56	13.61	22.80	-9.19
			SDM	52	40	50/58.8 (MCS11)	10.56	10.60	13.59	22.80	-9.21
			SDM	52	44	50/58.8 (MCS11)	10.79	10.70	13.75	22.80	-9.05
5310	62		SDM	52	37	50/58.8 (MCS11)	10.95	10.75	13.86	22.80	-8.94
			SDM	52	40	50/58.8 (MCS11)	10.81	10.58	13.70	22.80	-9.10
			SDM	52	44	50/58.8 (MCS11)	10.62	10.99	13.82	22.80	-8.98
5510	102		SDM	52	37	50/58.8 (MCS11)	10.42	10.38	13.41	22.16	-8.75
			SDM	52	40	50/58.8 (MCS11)	10.42	10.46	13.45	22.16	-8.71
			SDM	52	44	50/58.8 (MCS11)	10.11	10.33	13.23	22.16	-8.93
5550	110		SDM	52	37	50/58.8 (MCS11)	10.60	10.56	13.59	22.16	-8.57
			SDM	52	40	50/58.8 (MCS11)	10.90	10.76	13.84	22.16	-8.32
			SDM	52	44	50/58.8 (MCS11)	10.61	11.00	13.82	22.16	-8.34
5710	142		SDM	52	37	50/58.8 (MCS11)	10.66	10.96	13.82	22.16	-8.34
			SDM	52	40	50/58.8 (MCS11)	10.97	10.82	13.90	22.16	-8.26
			SDM	52	44	50/58.8 (MCS11)	10.61	10.96	13.79	22.16	-8.37

Table 7-67. FCC SDM 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
5290	58		CDD	52	37	50/58.8 (MCS11)	8.60	8.52	11.57	22.80	-11.23
			CDD	52	44	50/58.8 (MCS11)	8.55	8.55	11.56	22.80	-11.24
			CDD	52	52	50/58.8 (MCS11)	8.80	8.90	11.86	22.80	-10.94
5530	106		CDD	52	37	50/58.8 (MCS11)	7.12	7.31	10.23	22.16	-11.93
			CDD	52	44	50/58.8 (MCS11)	7.42	7.47	10.45	22.16	-11.71
			CDD	52	52	50/58.8 (MCS11)	7.47	7.17	10.33	22.16	-11.83
5610	122		SDM	52	37	50/58.8 (MCS11)	10.85	10.92	13.90	22.16	-8.26
			SDM	52	44	50/58.8 (MCS11)	10.66	10.76	13.72	22.16	-8.44
			SDM	52	52	50/58.8 (MCS11)	10.89	10.53	13.72	22.16	-8.44
5690	138		SDM	52	37	50/58.8 (MCS11)	10.76	10.74	13.76	22.16	-8.40
			SDM	52	44	50/58.8 (MCS11)	10.71	10.65	13.69	22.16	-8.47
			SDM	52	52	50/58.8 (MCS11)	10.87	10.80	13.85	22.16	-8.31

Table 7-68. FCC CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 55 of 172

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7.4.20 ISED CDD/SDM Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5260	52	SDM	52	37	50/58.8 (MCS11)	10.64	10.93	13.80	22.80	-9.00	4.70	18.50	28.80	-10.29
			SDM	52	39	50/58.8 (MCS11)	10.67	10.54	13.62	22.80	-9.18	4.70	18.32	28.80	-10.47
			SDM	52	40	50/58.8 (MCS11)	10.76	10.69	13.74	22.80	-9.06	4.70	18.44	28.80	-10.35
	5300	60	SDM	52	37	50/58.8 (MCS11)	10.95	10.68	13.83	22.80	-8.97	4.70	18.53	28.80	-10.26
			SDM	52	39	50/58.8 (MCS11)	10.90	10.64	13.78	22.80	-9.02	4.70	18.48	28.80	-10.31
			SDM	52	40	50/58.8 (MCS11)	10.56	10.85	13.71	22.80	-9.09	4.70	18.41	28.80	-10.38
	5320	64	SDM	52	37	50/58.8 (MCS11)	10.95	10.73	13.85	22.80	-8.95	4.70	18.55	28.80	-10.24
			SDM	52	39	50/58.8 (MCS11)	10.96	10.78	13.88	22.80	-8.92	4.70	18.58	28.80	-10.21
			SDM	52	40	50/58.8 (MCS11)	10.99	10.91	13.96	22.80	-8.84	4.70	18.66	28.80	-10.13
	5500	100	SDM	52	37	50/58.8 (MCS11)	10.51	10.75	13.64	22.16	-8.52	4.86	18.50	28.16	-9.66
			SDM	52	39	50/58.8 (MCS11)	11.00	10.68	13.85	22.16	-8.31	4.86	18.71	28.16	-9.45
			SDM	52	40	50/58.8 (MCS11)	10.56	10.58	13.58	22.16	-8.58	4.86	18.44	28.16	-9.72
	5580	116	SDM	52	37	50/58.8 (MCS11)	10.77	10.93	13.86	22.16	-8.30	4.86	18.72	28.16	-9.44
			SDM	52	39	50/58.8 (MCS11)	10.65	10.97	13.82	22.16	-8.34	4.86	18.68	28.16	-9.48
			SDM	52	40	50/58.8 (MCS11)	10.85	10.93	13.90	22.16	-8.26	4.86	18.76	28.16	-9.40
	5720	144	SDM	52	37	50/58.8 (MCS11)	10.61	10.98	13.81	22.16	-8.35	4.86	18.67	28.16	-9.49
			SDM	52	39	50/58.8 (MCS11)	10.52	10.84	13.69	22.16	-8.47	4.86	18.55	28.16	-9.61
			SDM	52	40	50/58.8 (MCS11)	10.60	10.52	13.57	22.16	-8.59	4.86	18.43	28.16	-9.73

Table 7-69. ISED SDM 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5270	54	SDM	52	37	50/58.8 (MCS11)	10.64	10.56	13.61	22.80	-9.19	4.70	18.31	28.80	-10.48
			SDM	52	40	50/58.8 (MCS11)	10.56	10.60	13.59	22.80	-9.21	4.70	18.29	28.80	-10.50
			SDM	52	44	50/58.8 (MCS11)	10.79	10.70	13.75	22.80	-9.05	4.70	18.45	28.80	-10.34
	5310	62	SDM	52	37	50/58.8 (MCS11)	10.95	10.75	13.86	22.80	-8.94	4.70	18.56	28.80	-10.23
			SDM	52	40	50/58.8 (MCS11)	10.81	10.58	13.70	22.80	-9.10	4.70	18.40	28.80	-10.39
			SDM	52	44	50/58.8 (MCS11)	10.62	10.99	13.82	22.80	-8.98	4.70	18.52	28.80	-10.27
	5510	102	SDM	52	37	50/58.8 (MCS11)	10.42	10.38	13.41	22.16	-8.75	4.86	18.27	28.16	-9.89
			SDM	52	40	50/58.8 (MCS11)	10.42	10.46	13.45	22.16	-8.71	4.86	18.31	28.16	-9.85
			SDM	52	44	50/58.8 (MCS11)	10.11	10.33	13.23	22.16	-8.93	4.86	18.09	28.16	-10.07
	5550	110	SDM	52	37	50/58.8 (MCS11)	10.60	10.56	13.59	22.16	-8.57	4.86	18.45	28.16	-9.71
			SDM	52	40	50/58.8 (MCS11)	10.90	10.76	13.84	22.16	-8.32	4.86	18.70	28.16	-9.46
			SDM	52	44	50/58.8 (MCS11)	10.61	11.00	13.82	22.16	-8.34	4.86	18.68	28.16	-9.48
	5710	142	SDM	52	37	50/58.8 (MCS11)	10.66	10.96	13.82	22.16	-8.34	4.86	18.68	28.16	-9.48
			SDM	52	40	50/58.8 (MCS11)	10.97	10.82	13.90	22.16	-8.26	4.86	18.76	28.16	-9.40
			SDM	52	44	50/58.8 (MCS11)	10.61	10.96	13.79	22.16	-8.37	4.86	18.65	28.16	-9.51

Table 7-70. ISED SDM 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5290	58	CDD	52	37	50/58.8 (MCS11)	8.60	8.52	11.57	22.80	-11.23	4.80	16.37	28.80	-12.43
			CDD	52	44	50/58.8 (MCS11)	8.55	8.55	11.56	22.80	-11.24	4.80	16.36	28.80	-12.44
			CDD	52	52	50/58.8 (MCS11)	8.80	8.90	11.86	22.80	-10.94	4.80	16.66	28.80	-12.14
	5530	106	CDD	52	37	50/58.8 (MCS11)	7.12	7.31	10.23	22.16	-11.93	5.10	15.33	28.16	-12.83
			CDD	52	44	50/58.8 (MCS11)	7.42	7.47	10.45	22.16	-11.71	5.10	15.55	28.16	-12.61
			CDD	52	52	50/58.8 (MCS11)	7.47	7.17	10.33	22.16	-11.83	5.10	15.43	28.16	-12.73
	5690	138	SDM	52	37	50/58.8 (MCS11)	10.76	10.74	13.76	22.16	-8.40	4.86	18.62	28.16	-9.54
			SDM	52	44	50/58.8 (MCS11)	10.71	10.65	13.69	22.16	-8.47	4.86	18.55	28.16	-9.61
			SDM	52	52	50/58.8 (MCS11)	10.87	10.80	13.85	22.16	-8.31	4.86	18.71	28.16	-9.45

Table 7-71. ISED CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 56 of 172

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7.4.21 FCC CDD/SDM Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
	5180	36	CDD	106	53	106.3/125 (MCS11)	11.70	11.66	14.69	23.98	-9.29
			CDD	106	54	106.3/125 (MCS11)	11.75	11.63	14.70	23.98	-9.28
	5200	40	CDD	106	53	106.3/125 (MCS11)	11.71	11.75	14.74	23.98	-9.24
			CDD	106	54	106.3/125 (MCS11)	11.84	11.71	14.78	23.98	-9.20
	5240	48	CDD	106	53	106.3/125 (MCS11)	11.86	11.60	14.74	23.98	-9.24
			CDD	106	54	106.3/125 (MCS11)	11.79	11.87	14.84	23.98	-9.14
	5260	52	CDD	106	53	106.3/125 (MCS11)	11.83	11.57	14.71	22.80	-8.09
			CDD	106	54	106.3/125 (MCS11)	11.85	11.77	14.82	22.80	-7.98
	5300	60	CDD	106	53	106.3/125 (MCS11)	11.61	11.60	14.61	22.80	-8.19
			CDD	106	54	106.3/125 (MCS11)	11.69	11.90	14.81	22.80	-7.99
	5320	64	CDD	106	53	106.3/125 (MCS11)	11.66	11.89	14.79	22.80	-8.01
			CDD	106	54	106.3/125 (MCS11)	11.73	11.95	14.85	22.80	-7.95
	5500	100	CDD	106	53	106.3/125 (MCS11)	11.67	11.78	14.73	22.16	-7.43
			CDD	106	54	106.3/125 (MCS11)	11.78	11.75	14.77	22.16	-7.39
	5580	116	CDD	106	53	106.3/125 (MCS11)	11.92	11.47	14.71	22.16	-7.45
			CDD	106	54	106.3/125 (MCS11)	11.96	11.62	14.80	22.16	-7.36
	5720	144	CDD	106	53	106.3/125 (MCS11)	11.80	11.60	14.71	22.16	-7.45
			CDD	106	54	106.3/125 (MCS11)	11.86	11.63	14.76	22.16	-7.40
	5745	149	CDD	106	53	106.3/125 (MCS11)	11.67	11.98	14.84	30.00	-15.16
			CDD	106	54	106.3/125 (MCS11)	11.73	11.43	14.59	30.00	-15.41
	5785	157	CDD	106	53	106.3/125 (MCS11)	11.70	11.88	14.80	30.00	-15.20
			CDD	106	54	106.3/125 (MCS11)	11.73	11.46	14.61	30.00	-15.39
	5825	165	CDD	106	53	106.3/125 (MCS11)	11.75	11.78	14.77	30.00	-15.23
			CDD	106	54	106.3/125 (MCS11)	11.69	11.73	14.72	30.00	-15.28

Table 7-72. FCC CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
	5190	38	CDD	242	61	243.8/286.8 (MCS11)	14.46	14.07	17.28	23.98	-6.70
			CDD	242	62	243.8/286.8 (MCS11)	14.07	14.08	17.09	23.98	-6.89
	5230	46	SDM	242	61	243.8/286.8 (MCS11)	17.98	17.85	20.92	23.98	-3.06
			SDM	242	62	243.8/286.8 (MCS11)	17.51	17.49	20.51	23.98	-3.47
	5270	54	SDM	242	61	243.8/286.8 (MCS11)	17.57	17.52	20.55	22.80	-2.25
			SDM	242	62	243.8/286.8 (MCS11)	17.55	17.55	20.56	22.80	-2.24
	5310	62	CDD	242	61	243.8/286.8 (MCS11)	13.95	13.76	16.87	22.80	-5.93
			CDD	242	62	243.8/286.8 (MCS11)	13.96	13.76	16.87	22.80	-5.93
	5510	102	CDD	242	61	243.8/286.8 (MCS11)	14.46	14.16	17.32	22.16	-4.84
			CDD	242	62	243.8/286.8 (MCS11)	14.44	14.16	17.31	22.16	-4.85
	5550	110	SDM	242	61	243.8/286.8 (MCS11)	16.87	16.84	19.86	22.16	-2.30
			SDM	242	62	243.8/286.8 (MCS11)	16.90	16.87	19.89	22.16	-2.27
	5590	118	SDM	242	61	243.8/286.8 (MCS11)	17.67	17.92	20.81	22.16	-1.35
			SDM	242	62	243.8/286.8 (MCS11)	17.72	17.46	20.61	22.16	-1.55
	5630	126	SDM	242	61	243.8/286.8 (MCS11)	17.68	17.54	20.62	22.16	-1.54
			SDM	242	62	243.8/286.8 (MCS11)	17.74	17.49	20.62	22.16	-1.54
	5670	134	CDD	242	61	243.8/286.8 (MCS11)	15.23	15.21	18.23	22.16	-3.93
			CDD	242	62	243.8/286.8 (MCS11)	15.24	15.19	18.22	22.16	-3.94
	5710	142	CDD	242	61	243.8/286.8 (MCS11)	12.41	12.50	15.47	22.16	-6.69
			CDD	242	62	243.8/286.8 (MCS11)	12.19	12.31	15.26	22.16	-6.90
	5755	151	CDD	242	61	243.8/286.8 (MCS11)	18.91	18.41	21.68	30.00	-8.32
			CDD	242	62	243.8/286.8 (MCS11)	18.90	18.49	21.71	30.00	-8.29
	5795	159	CDD	242	61	243.8/286.8 (MCS11)	18.91	18.60	21.77	30.00	-8.23
			CDD	242	62	243.8/286.8 (MCS11)	18.95	18.58	21.78	30.00	-8.22

Table 7-73. FCC CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2410210076-10-R1.BCG	Test Dates: 10/25/2024 - 1/14/2025	EUT Type: Tablet Device	Page 57 of 172

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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
	5210	42	CDD	242	61	243.8/286.8 (MCS11)	14.14	14.23	17.20	23.98	-6.78
			CDD	242	62	243.8/286.8 (MCS11)	14.18	14.25	17.22	23.98	-6.76
			CDD	242	64	243.8/286.8 (MCS11)	14.20	14.42	17.32	23.98	-6.66
	5290	58	CDD	242	61	243.8/286.8 (MCS11)	13.85	13.87	16.87	22.80	-5.93
			CDD	242	62	243.8/286.8 (MCS11)	13.79	13.82	16.81	22.80	-5.99
			CDD	242	64	243.8/286.8 (MCS11)	13.88	13.96	16.93	22.80	-5.87
	5530	106	CDD	242	61	243.8/286.8 (MCS11)	14.11	14.31	17.22	22.16	-4.94
			CDD	242	62	243.8/286.8 (MCS11)	14.14	14.25	17.21	22.16	-4.95
			CDD	242	64	243.8/286.8 (MCS11)	14.16	14.30	17.24	22.16	-4.92
	5610	122	SDM	242	61	243.8/286.8 (MCS11)	17.36	17.10	20.24	22.16	-1.92
			SDM	242	62	243.8/286.8 (MCS11)	17.34	17.17	20.26	22.16	-1.90
			SDM	242	64	243.8/286.8 (MCS11)	17.34	17.12	20.24	22.16	-1.92
	5690	138	CDD	484	65	487.5/573.5 (MCS11)	13.21	13.15	16.19	22.16	-5.97
			CDD	484	66	487.5/573.5 (MCS11)	13.33	13.28	16.32	22.16	-5.84
	5775	155	CDD	242	61	243.8/286.8 (MCS11)	16.04	16.01	19.04	30.00	-10.96
			CDD	242	62	243.8/286.8 (MCS11)	16.07	16.11	19.10	30.00	-10.90
			CDD	242	64	243.8/286.8 (MCS11)	16.05	16.07	19.07	30.00	-10.93

Table 7-74. FCC CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.4.22 ISED CDD/SDM Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
5180	36	SDM	106	53	106.3/125 (MCS11)	9.14	9.20	12.18	-	-	3.76	15.94	21.72	-5.77	
		SDM	106	54	106.3/125 (MCS11)	9.15	9.13	12.15	-	-	3.76	15.91	21.72	-5.80	
5200	40	SDM	106	53	106.3/125 (MCS11)	9.17	9.23	12.21	-	-	3.76	15.97	21.72	-5.74	
		SDM	106	54	106.3/125 (MCS11)	9.22	9.23	12.24	-	-	3.76	16.00	21.72	-5.71	
5240	48	SDM	106	53	106.3/125 (MCS11)	9.22	9.09	12.16	-	-	3.76	15.92	21.72	-5.79	
		SDM	106	54	106.3/125 (MCS11)	9.24	9.13	12.19	-	-	3.76	15.95	21.72	-5.76	
5260	52	CDD	106	53	106.3/125 (MCS11)	11.83	11.57	14.71	22.80	-8.09	4.80	19.51	28.80	-9.29	
		CDD	106	54	106.3/125 (MCS11)	11.85	11.77	14.82	22.80	-7.98	4.80	19.62	28.80	-9.18	
5300	60	CDD	106	53	106.3/125 (MCS11)	11.61	11.60	14.61	22.80	-8.19	4.80	19.41	28.80	-9.39	
		CDD	106	54	106.3/125 (MCS11)	11.69	11.90	14.81	22.80	-7.99	4.80	19.61	28.80	-9.19	
5320	64	CDD	106	53	106.3/125 (MCS11)	11.66	11.89	14.79	22.80	-8.01	4.80	19.59	28.80	-9.21	
		CDD	106	54	106.3/125 (MCS11)	11.73	11.95	14.85	22.80	-7.95	4.80	19.65	28.80	-9.15	
5500	100	CDD	106	53	106.3/125 (MCS11)	11.67	11.78	14.73	22.16	-7.43	5.10	19.83	28.16	-8.33	
		CDD	106	54	106.3/125 (MCS11)	11.78	11.75	14.77	22.16	-7.39	5.10	19.87	28.16	-8.29	
5580	116	CDD	106	53	106.3/125 (MCS11)	11.92	11.47	14.71	22.16	-7.45	5.10	19.81	28.16	-8.35	
		CDD	106	54	106.3/125 (MCS11)	11.96	11.62	14.80	22.16	-7.36	5.10	19.90	28.16	-8.26	
5720	144	CDD	106	53	106.3/125 (MCS11)	11.80	11.60	14.71	22.16	-7.45	5.10	19.81	28.16	-8.35	
		CDD	106	54	106.3/125 (MCS11)	11.86	11.63	14.76	22.16	-7.40	5.10	19.86	28.16	-8.30	
5745	149	CDD	106	53	106.3/125 (MCS11)	11.67	11.98	14.84	30.00	-15.16	4.90	19.74	-	-	
		CDD	106	54	106.3/125 (MCS11)	11.73	11.43	14.59	30.00	-15.41	4.90	19.49	-	-	
5785	157	CDD	106	53	106.3/125 (MCS11)	11.70	11.88	14.80	30.00	-15.20	4.90	19.70	-	-	
		CDD	106	54	106.3/125 (MCS11)	11.73	11.46	14.61	30.00	-15.39	4.90	19.51	-	-	
5825	165	CDD	106	53	106.3/125 (MCS11)	11.75	11.78	14.77	30.00	-15.23	4.90	19.67	-	-	
		CDD	106	54	106.3/125 (MCS11)	11.69	11.73	14.72	30.00	-15.28	4.90	19.62	-	-	

Table 7-75. ISED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
5190	38	SDM	242	61	243.8/286.8 (MCS11)	12.93	12.52	15.74	-	-	3.76	19.50	21.72	-2.21	
		SDM	242	62	243.8/286.8 (MCS11)	12.96	12.54	15.77	-	-	3.76	19.53	21.72	-2.18	
5230	46	SDM	242	61	243.8/286.8 (MCS11)	13.00	12.94	15.98	-	-	3.76	19.74	21.72	-1.97	
		SDM	242	62	243.8/286.8 (MCS11)	12.56	12.99	15.79	-	-	3.76	19.55	21.72	-2.16	
5270	54	SDM	242	61	243.8/286.8 (MCS11)	17.57	17.52	20.55	22.80	-2.25	4.70	25.25	28.80	-3.54	
		SDM	242	62	243.8/286.8 (MCS11)	17.55	17.55	20.56	22.80	-2.24	4.70	25.26	28.80	-3.53	
5310	62	CDD	242	61	243.8/286.8 (MCS11)	13.95	13.76	16.87	22.80	-5.93	4.80	21.67	28.80	-7.13	
		CDD	242	62	243.8/286.8 (MCS11)	13.96	13.76	16.87	22.80	-5.93	4.80	21.67	28.80	-7.13	
5510	102	CDD	242	61	243.8/286.8 (MCS11)	14.46	14.16	17.32	22.16	-4.84	5.10	22.42	28.16	-5.74	
		CDD	242	62	243.8/286.8 (MCS11)	14.44	14.16	17.31	22.16	-4.85	5.10	22.41	28.16	-5.75	
5550	110	SDM	242	61	243.8/286.8 (MCS11)	16.87	16.84	19.86	22.16	-2.30	4.86	24.72	28.16	-3.44	
		SDM	242	62	243.8/286.8 (MCS11)	16.90	16.87	19.89	22.16	-2.27	4.86	24.75	28.16	-3.41	
5670	134	CDD	242	61	243.8/286.8 (MCS11)	15.23	15.21	18.23	22.16	-3.93	5.10	23.33	28.16	-4.83	
		CDD	242	62	243.8/286.8 (MCS11)	15.24	15.19	18.22	22.16	-3.94	5.10	23.32	28.16	-4.84	
5710	142	CDD	242	61	243.8/286.8 (MCS11)	12.41	12.50	15.47	22.16	-6.69	5.10	20.57	28.16	-7.59	
		CDD	242	62	243.8/286.8 (MCS11)	12.19	12.31	15.26	22.16	-6.90	5.10	20.36	28.16	-7.80	
5755	151	CDD	242	61	243.8/286.8 (MCS11)	18.91	18.41	21.68	30.00	-8.32	4.90	26.58	-	-	
		CDD	242	62	243.8/286.8 (MCS11)	18.90	18.49	21.71	30.00	-8.29	4.90	26.61	-	-	
5795	159	CDD	242	61	243.8/286.8 (MCS11)	18.91	18.60	21.77	30.00	-8.23	4.90	26.67	-	-	
		CDD	242	62	243.8/286.8 (MCS11)	18.95	18.58	21.78	30.00	-8.22	4.90	26.68	-	-	

Table 7-76. ISED CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5210	42	CDD	242	61	243.8/286.8 (MCS11)	14.40	14.35	17.39	-	-	4.10	21.49	21.72	-0.23
			CDD	242	62	243.8/286.8 (MCS11)	14.25	14.30	17.29	-	-	4.10	21.39	21.72	-0.33
			CDD	242	64	243.8/286.8 (MCS11)	14.08	14.29	17.20	-	-	4.10	21.30	21.72	-0.42
	5290	58	CDD	242	61	243.8/286.8 (MCS11)	13.85	13.87	16.87	22.80	-5.93	4.80	21.67	28.80	-7.13
			CDD	242	62	243.8/286.8 (MCS11)	13.79	13.82	16.81	22.80	-5.99	4.80	21.61	28.80	-7.19
			CDD	242	64	243.8/286.8 (MCS11)	13.88	13.96	16.93	22.80	-5.87	4.80	21.73	28.80	-7.07
	5530	106	CDD	242	61	243.8/286.8 (MCS11)	14.11	14.31	17.22	22.16	-4.94	5.10	22.32	28.16	-5.84
			CDD	242	62	243.8/286.8 (MCS11)	14.14	14.25	17.21	22.16	-4.95	5.10	22.31	28.16	-5.85
CDD			242	64	243.8/286.8 (MCS11)	14.16	14.30	17.24	22.16	-4.92	5.10	22.34	28.16	-5.82	
5690	138	CDD	484	65	487.5/573.5 (MCS11)	13.21	13.15	16.19	22.16	-5.97	5.10	21.29	28.16	-6.87	
		CDD	484	66	487.5/573.5 (MCS11)	13.33	13.28	16.32	22.16	-5.84	5.10	21.42	28.16	-6.74	
		5775	155	CDD	242	61	243.8/286.8 (MCS11)	16.04	16.01	19.04	30.00	-10.96	4.90	23.94	-
CDD	242			62	243.8/286.8 (MCS11)	16.07	16.11	19.10	30.00	-10.90	4.90	24.00	-	-	
CDD	242			64	243.8/286.8 (MCS11)	16.05	16.07	19.07	30.00	-10.93	4.90	23.97	-	-	

Table 7-77. ISED CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.4.23 FCC CDD/SDM Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
	5180	36	CDD	242	61	243.8/286.8 (MCS11)	14.42	14.49	17.47	23.98	-6.51
	5200	40	CDD	242	61	243.8/286.8 (MCS11)	16.42	16.09	19.27	23.98	-4.71
	5240	48	SDM	242	61	243.8/286.8 (MCS11)	17.72	17.99	20.87	23.98	-3.11
	5260	52	SDM	242	61	243.8/286.8 (MCS11)	17.62	17.92	20.78	22.80	-2.02
	5300	60	SDM	242	61	243.8/286.8 (MCS11)	17.38	17.13	20.27	22.80	-2.53
	5320	64	CDD	242	61	243.8/286.8 (MCS11)	13.92	13.77	16.85	22.80	-5.95
	5500	100	CDD	242	61	243.8/286.8 (MCS11)	14.46	14.10	17.29	22.16	-4.87
	5520	104	CDD	242	61	243.8/286.8 (MCS11)	14.65	14.77	17.72	22.16	-4.44
	5540	108	SDM	242	61	243.8/286.8 (MCS11)	16.54	16.98	19.77	22.16	-2.39
	5560	112	SDM	242	61	243.8/286.8 (MCS11)	17.56	17.85	20.72	22.16	-1.44
	5580	116	SDM	242	61	243.8/286.8 (MCS11)	17.65	17.96	20.82	22.16	-1.34
	5640	128	SDM	242	61	243.8/286.8 (MCS11)	17.84	17.90	20.88	22.16	-1.28
	5660	132	SDM	242	61	243.8/286.8 (MCS11)	16.89	16.85	19.88	22.16	-2.28
	5680	136	CDD	242	61	243.8/286.8 (MCS11)	15.37	15.25	18.32	22.16	-3.84
	5700	140	CDD	242	61	243.8/286.8 (MCS11)	12.07	12.44	15.27	22.16	-6.89
	5720	144	SDM	242	61	243.8/286.8 (MCS11)	17.79	17.72	20.77	22.16	-1.39
	5745	149	CDD	242	61	243.8/286.8 (MCS11)	18.86	18.59	21.73	30.00	-8.27
	5785	157	CDD	242	61	243.8/286.8 (MCS11)	18.99	18.81	21.91	30.00	-8.09
	5825	165	CDD	242	61	243.8/286.8 (MCS11)	18.62	18.95	21.80	30.00	-8.20

Table 7-78. FCC CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
	5190	38	CDD	484	65	487.5/573.5 (MCS11)	11.93	11.51	14.74	23.98	-9.24
	5230	46	CDD	484	65	487.5/573.5 (MCS11)	17.06	17.03	20.06	23.98	-3.92
	5270	54	CDD	484	65	487.5/573.5 (MCS11)	16.61	16.61	19.62	22.80	-3.18
	5310	62	CDD	484	65	487.5/573.5 (MCS11)	11.86	11.70	14.79	22.80	-8.01
	5510	102	CDD	484	65	487.5/573.5 (MCS11)	10.42	10.09	13.27	22.16	-8.89
	5550	110	CDD	484	65	487.5/573.5 (MCS11)	15.40	15.42	18.42	22.16	-3.74
	5590	118	CDD	484	65	487.5/573.5 (MCS11)	17.75	17.54	20.66	22.16	-1.50
	5630	126	CDD	484	65	487.5/573.5 (MCS11)	16.29	16.14	19.23	22.16	-2.93
	5670	134	CDD	484	65	487.5/573.5 (MCS11)	13.18	13.16	16.18	22.16	-5.98
	5710	142	SDM	484	65	487.5/573.5 (MCS11)	18.62	18.73	21.69	22.16	-0.47
	5755	151	CDD	484	65	487.5/573.5 (MCS11)	16.95	16.66	19.81	30.00	-10.19
	5795	159	CDD	484	65	487.5/573.5 (MCS11)	18.01	18.09	21.06	30.00	-8.94

Table 7-79. FCC CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
							Antenna WF7a	Antenna WF8	Summed		
	5210	42	CDD	996	67	1020.8/1201 (MCS11)	9.22	9.21	12.23	23.98	-11.75
	5290	58	CDD	996	67	1020.8/1201 (MCS11)	8.83	8.81	11.83	22.80	-10.97
	5530	106	CDD	996	67	1020.8/1201 (MCS11)	7.22	7.36	10.30	22.16	-11.86
	5610	122	CDD	996	67	1020.8/1201 (MCS11)	14.83	14.62	17.73	22.16	-4.43
	5690	138	CDD	996	67	1020.8/1201 (MCS11)	18.51	18.79	21.66	22.16	-0.50
	5775	155	CDD	996	67	1020.8/1201 (MCS11)	13.64	14.00	16.83	30.00	-13.17

Table 7-80. FCC CDD 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3354 IC: 579C-A3354		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.4.24 ISED CDD/SDM Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5180	36	SDM	242	61	243.8/286.8 (MCS11)	12.97	12.54	15.77	-	-	3.76	19.53	21.72	-2.18
	5200	40	SDM	242	61	243.8/286.8 (MCS11)	12.97	12.59	15.80	-	-	3.76	19.56	21.72	-2.15
	5240	48	SDM	242	61	243.8/286.8 (MCS11)	12.56	12.99	15.79	-	-	3.76	19.55	21.72	-2.16
	5260	52	SDM	242	61	243.8/286.8 (MCS11)	17.62	17.92	20.78	22.80	-2.02	4.70	25.48	28.80	-3.31
	5300	60	SDM	242	61	243.8/286.8 (MCS11)	17.38	17.13	20.27	22.80	-2.53	4.70	24.97	28.80	-3.82
	5320	64	CDD	242	61	243.8/286.8 (MCS11)	13.92	13.77	16.85	22.80	-5.95	4.80	21.65	28.80	-7.15
	5500	100	CDD	242	61	243.8/286.8 (MCS11)	14.46	14.10	17.29	22.16	-4.87	5.10	22.39	28.16	-5.77
	5520	104	CDD	242	61	243.8/286.8 (MCS11)	14.65	14.77	17.72	22.16	-4.44	5.10	22.82	28.16	-5.34
	5540	108	SDM	242	61	243.8/286.8 (MCS11)	16.54	16.98	19.77	22.16	-2.39	4.86	24.63	28.16	-3.53
	5580	116	SDM	242	61	243.8/286.8 (MCS11)	17.56	17.85	20.72	22.16	-1.44	4.86	25.58	28.16	-2.58
	5580	116	SDM	242	61	243.8/286.8 (MCS11)	17.65	17.96	20.82	22.16	-1.34	4.86	25.68	28.16	-2.48
	5660	132	SDM	242	61	243.8/286.8 (MCS11)	16.89	16.85	19.88	22.16	-2.28	4.86	24.74	28.16	-3.42
	5680	136	CDD	242	61	243.8/286.8 (MCS11)	15.37	15.25	18.32	22.16	-3.84	5.10	23.42	28.16	-4.74
	5700	140	CDD	242	61	243.8/286.8 (MCS11)	12.07	12.44	15.27	22.16	-6.89	5.10	20.37	28.16	-7.79
	5720	144	SDM	242	61	243.8/286.8 (MCS11)	17.79	17.72	20.77	22.16	-1.39	4.86	25.63	28.16	-2.53
	5745	149	CDD	242	61	243.8/286.8 (MCS11)	18.86	18.59	21.73	30.00	-8.27	4.90	26.63	-	-
	5785	157	CDD	242	61	243.8/286.8 (MCS11)	18.99	18.81	21.91	30.00	-8.09	4.90	26.81	-	-
	5825	165	CDD	242	61	243.8/286.8 (MCS11)	18.62	18.95	21.80	30.00	-8.20	4.90	26.70	-	-

Table 7-81. ISED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5190	38	CDD	484	65	487.5/573.5 (MCS11)	11.97	11.59	14.80	-	-	4.10	18.90	21.72	-2.82
	5230	46	SDM	484	65	487.5/573.5 (MCS11)	14.55	14.92	17.75	-	-	3.76	21.51	21.72	-0.20
	5270	54	CDD	484	65	487.5/573.5 (MCS11)	16.61	16.61	19.62	22.80	-3.18	4.80	24.42	28.80	-4.38
	5310	62	CDD	484	65	487.5/573.5 (MCS11)	11.86	11.70	14.79	22.80	-8.01	4.80	19.59	28.80	-9.21
	5510	102	CDD	484	65	487.5/573.5 (MCS11)	10.42	10.09	13.27	22.16	-8.89	5.10	18.37	28.16	-9.79
	5550	110	CDD	484	65	487.5/573.5 (MCS11)	15.40	15.42	18.42	22.16	-3.74	5.10	23.52	28.16	-4.64
	5670	134	CDD	484	65	487.5/573.5 (MCS11)	13.18	13.16	16.18	22.16	-5.98	5.10	21.28	28.16	-6.88
	5710	142	SDM	484	65	487.5/573.5 (MCS11)	18.62	18.73	21.69	22.16	-0.47	4.86	26.55	28.16	-1.61
	5755	151	CDD	484	65	487.5/573.5 (MCS11)	16.95	16.66	19.81	30.00	-10.19	4.90	24.71	-	-
	5795	159	CDD	484	65	487.5/573.5 (MCS11)	18.01	18.09	21.06	30.00	-8.94	4.90	25.96	-	-

Table 7-82. ISED CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
							Antenna WF7a	Antenna WF8	Summed						
	5210	42	CDD	996	67	1020.8/1201 (MCS11)	9.44	9.04	12.26	-	-	4.10	16.36	21.72	-5.36
	5290	58	CDD	996	67	1020.8/1201 (MCS11)	8.83	8.81	11.83	22.80	-10.97	4.80	16.63	28.80	-12.17
	5530	106	CDD	996	67	1020.8/1201 (MCS11)	7.22	7.36	10.30	22.16	-11.86	5.10	15.40	28.16	-12.76
	5690	138	CDD	996	67	1020.8/1201 (MCS11)	18.51	18.79	21.66	22.16	-0.50	5.10	26.76	28.16	-1.40
	5775	155	CDD	996	67	1020.8/1201 (MCS11)	13.64	14.00	16.83	30.00	-13.17	4.90	21.73	-	-

Table 7-83. ISED CDD 80MHz BW (UNII) 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 WF7a and Antenna WF8 were first measured separately during CDD/SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2020 Subclause 14.6.3, the correlated 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 Subclause 14.6.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Sample SDM Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 3.45 dBm for Antenna WF7a and 3.19 dBm for Antenna WF8.

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

$$(3.45 \text{ dBm} + 3.19 \text{ dBm}) = (2.21 \text{ mW} + 2.08 \text{ mW}) = 4.29 \text{ mW} = 6.33 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW, SDM) mode, the average SDM conducted power was calculated to be 6.33 dBm with directional gain of 3.76 dBi.

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

$$6.33 \text{ dBm} + 3.76 \text{ dBi} = 10.09 \text{ dBm}$$

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7.5 Maximum Power Spectral Density

§15.407(a.1.iv) §15.407(a.2) §15.407(a.3.i); RSS-247 [6.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

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

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

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

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2

KDB 789033 D02 v02r01 – Section F

ANSI C63.10-2020 – Section 14.5.2.2 Measure-and-Sum Technique

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

Test Settings

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

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Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All of the partially-loaded RU configurations have been investigated for Power Spectral Density measurement and among all partially-loaded RU configurations, the lowest supported RU configuration was found to be the worst case. Therefore, only the RU26, RU52 (Partially-loaded RU) and RU242 (Fully-loaded RU) data are included in this section.
2. Low, mid, and high channels were tested and tabular data has been reported. Only worst case PSD plots have been reported.

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7.5.1 Antenna WF7a Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.82	11.0	-4.18
				26	4	12.5/14.7 (MCS11)	6.35	11.0	-4.65
				26	8	12.5/14.7 (MCS11)	6.89	11.0	-4.11
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	7.24	11.0	-3.76
				26	4	12.5/14.7 (MCS11)	5.94	11.0	-5.06
				26	8	12.5/14.7 (MCS11)	6.82	11.0	-4.18
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	7.11	11.0	-3.89
				26	4	12.5/14.7 (MCS11)	5.65	11.0	-5.35
				26	8	12.5/14.7 (MCS11)	6.67	11.0	-4.33
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	7.31	11.0	-3.69
				26	8	12.5/14.7 (MCS11)	7.97	11.0	-3.03
				26	17	12.5/14.7 (MCS11)	7.88	11.0	-3.12
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	7.76	11.0	-3.24
				26	8	12.5/14.7 (MCS11)	8.02	11.0	-2.98
				26	17	12.5/14.7 (MCS11)	7.63	11.0	-3.37
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	7.61	11.0	-3.39
				26	18	12.5/14.7 (MCS11)	6.95	11.0	-4.05
				26	36	12.5/14.7 (MCS11)	7.52	11.0	-3.48

Table 7-84. Bands 1 Power Spectral Density Measurements Antenna WF7a (RU26)

FCC ID: BCGA3354 IC: 579C-A3354	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	4.94	11.0	-6.06
				52	38	25/29.4 (MCS11)	4.73	11.0	-6.27
				52	40	25/29.4 (MCS11)	5.25	11.0	-5.75
	5280	60	ax (20MHz)	52	37	25/29.4 (MCS11)	5.29	11.0	-5.71
				52	38	25/29.4 (MCS11)	5.23	11.0	-5.77
				52	40	25/29.4 (MCS11)	4.71	11.0	-6.29
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	5.20	11.0	-5.80
				52	38	25/29.4 (MCS11)	5.18	11.0	-5.82
				52	40	25/29.4 (MCS11)	4.64	11.0	-6.37
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	5.48	11.0	-5.52
				52	40	25/29.4 (MCS11)	6.18	11.0	-4.82
				52	44	25/29.4 (MCS11)	5.43	11.0	-5.57
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	5.80	11.0	-5.20
				52	40	25/29.4 (MCS11)	5.48	11.0	-5.52
				52	44	25/29.4 (MCS11)	4.98	11.0	-6.02
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	4.91	11.0	-6.09
				52	44	25/29.4 (MCS11)	4.04	11.0	-6.96
				52	52	25/29.4 (MCS11)	4.45	11.0	-6.55
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	5.69	11.0	-5.31
				52	38	25/29.4 (MCS11)	5.43	11.0	-5.57
				52	40	25/29.4 (MCS11)	5.21	11.0	-5.79
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	5.14	11.0	-5.86
				52	38	25/29.4 (MCS11)	5.30	11.0	-5.70
				52	40	25/29.4 (MCS11)	5.26	11.0	-5.74
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	5.35	11.0	-5.65
				52	38	25/29.4 (MCS11)	5.21	11.0	-5.79
				52	40	25/29.4 (MCS11)	4.85	11.0	-6.15
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	6.64	11.0	-4.36
				52	40	25/29.4 (MCS11)	5.83	11.0	-5.17
				52	44	25/29.4 (MCS11)	5.52	11.0	-5.48
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	6.26	11.0	-4.74
				52	40	25/29.4 (MCS11)	5.59	11.0	-5.41
				52	44	25/29.4 (MCS11)	5.30	11.0	-5.70
	*5590	118	ax (40MHz)	52	37	25/29.4 (MCS11)	5.71	11.0	-5.29
				52	40	25/29.4 (MCS11)	5.26	11.0	-5.74
				52	44	25/29.4 (MCS11)	5.65	11.0	-5.36
	5670	134	ax (40MHz)	52	37	25/29.4 (MCS11)	5.57	11.0	-5.43
				52	40	25/29.4 (MCS11)	5.74	11.0	-5.26
				52	44	25/29.4 (MCS11)	5.95	11.0	-5.05
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	5.48	11.0	-5.52
				52	40	25/29.4 (MCS11)	5.82	11.0	-5.18
				52	44	25/29.4 (MCS11)	5.66	11.0	-5.34
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	4.86	11.0	-6.14
				52	44	25/29.4 (MCS11)	4.16	11.0	-6.84
				52	52	25/29.4 (MCS11)	4.17	11.0	-6.83
	*5610	122	ax (80MHz)	52	37	25/29.4 (MCS11)	5.44	11.0	-5.56
				52	44	25/29.4 (MCS11)	5.09	11.0	-5.91
				52	52	25/29.4 (MCS11)	5.45	11.0	-5.55
	5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	5.51	11.0	-5.49
				52	44	25/29.4 (MCS11)	5.70	11.0	-5.30
				52	52	25/29.4 (MCS11)	5.88	11.0	-5.13

Table 7-85. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna WF7a (RU52)

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

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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	3.26	11.0	-7.74
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	6.27	11.0	-4.74
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	6.57	11.0	-4.43
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	0.20	11.0	-10.80
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	3.77	11.0	-7.23
Band 2A	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-5.67	11.0	-16.67
	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	6.29	11.0	-4.71
	5280	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.69	11.0	-5.31
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	3.29	11.0	-7.71
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.94	11.0	-8.06
Band 2C	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-2.23	11.0	-13.23
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-7.86	11.0	-18.86
	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.38	11.0	-8.62
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	6.76	11.0	-4.24
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	7.13	11.0	-3.87
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-1.75	11.0	-12.75
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.34	11.0	-8.66
	*5590	118	ax (40MHz)	484	65	243.8/286.8 (MCS11)	4.40	11.0	-6.60
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	4.36	11.0	-6.64
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-7.70	11.0	-18.70
	*5610	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-1.95	11.0	-12.95
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	1.68	11.0	-9.32

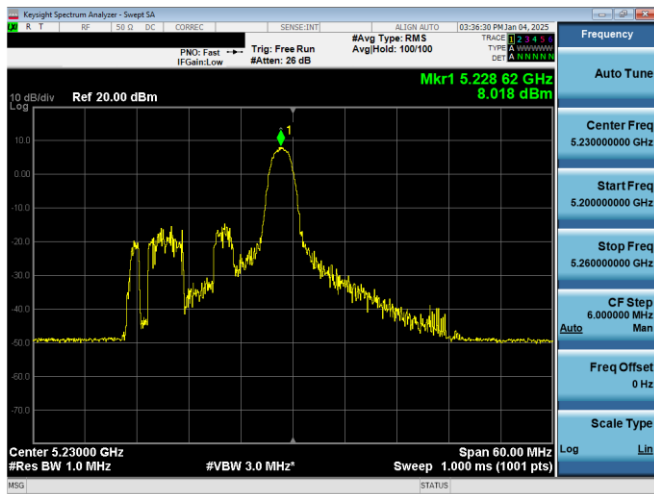
Table 7-86. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna WF7a (Fully-loaded RU)

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

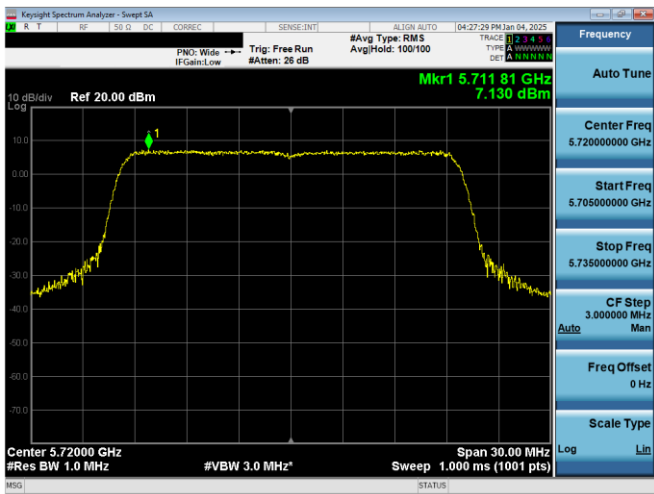
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Plot 7-9. PSD Antenna WF7a (40MHz BW 11ax Index 8 – RU26– Ch.46)



Plot 7-10. PSD Antenna WF7a (20MHz BW 11ax– RU242 – Ch.144)

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	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	4.85	30.0	-25.15
				26	4	12.5/14.7 (MCS11)	4.18	30.0	-25.83
				26	8	12.5/14.7 (MCS11)	4.50	30.0	-25.50
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	3.96	30.0	-26.04
				26	4	12.5/14.7 (MCS11)	4.33	30.0	-25.67
				26	8	12.5/14.7 (MCS11)	4.32	30.0	-25.68
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	4.20	30.0	-25.80
				26	4	12.5/14.7 (MCS11)	4.44	30.0	-25.56
				26	8	12.5/14.7 (MCS11)	4.52	30.0	-25.49
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	4.88	30.0	-25.12
				26	8	12.5/14.7 (MCS11)	4.94	30.0	-25.07
				26	17	12.5/14.7 (MCS11)	4.24	30.0	-25.76
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	4.54	30.0	-25.46
				26	8	12.5/14.7 (MCS11)	4.62	30.0	-25.38
				26	17	12.5/14.7 (MCS11)	4.26	30.0	-25.74
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	4.49	30.0	-25.51
				26	18	12.5/14.7 (MCS11)	4.09	30.0	-25.92
				26	36	12.5/14.7 (MCS11)	4.58	30.0	-25.42

Table 7-87. Band 3 Power Spectral Density Measurements Antenna WF7a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	4.28	30.0	-25.72
	5785	157	ax (20MHz)	242	61	121.9/143.4 (MCS11)	4.05	30.0	-25.95
	5825	165	ax (20MHz)	242	61	121.9/143.4 (MCS11)	4.51	30.0	-25.49
	5755	151	ax (40MHz)	484	65	243.8/286.8 (MCS11)	0.24	30.0	-29.76
	5795	159	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.07	30.0	-27.94
	5775	155	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-4.93	30.0	-34.93

Table 7-88. Band 3 Power Spectral Density Measurements Antenna WF7a (Fully-loaded RU)

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