

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:

5/12/2025 - 07/30/2025

Test Report Issue Date:

9/15/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2505120065-07.BCG

FCC ID:	BCGA3416
IC:	579C-A3416
APPLICANT:	Apple Inc.

Application Type:

Certification

Model/HVIN:

A3416

EUT Type:

Head Mounted 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 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

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



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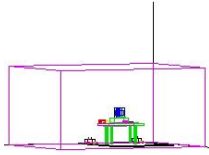
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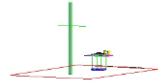
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MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Tx Frequency (MHz)	SISO				CDD	
			Ant1		Ant2		Summed	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	5180 - 5240	86.298	19.36	82.224	19.15	84.333	19.26
2A		5260 - 5320	85.507	19.32	87.297	19.41	87.297	19.41
2C		5500 - 5720	87.700	19.43	85.704	19.33	88.308	19.46
3		5745 - 5825	94.624	19.76	99.312	19.97	190.108	22.79
1	40	5190 - 5230	84.140	19.25	86.497	19.37	134.586	21.29
2A		5270 - 5310	95.280	19.79	99.770	19.99	155.597	21.92
2C		5510 - 5710	98.855	19.95	98.855	19.95	157.398	21.97
3		5755 - 5795	100.000	20.00	98.401	19.93	197.242	22.95
1	80	5210	39.811	16.00	36.898	15.67	49.659	16.96
2A		5290	54.200	17.34	53.211	17.26	83.753	19.23
2C		5530 - 5690	92.470	19.66	89.743	19.53	195.434	22.91
3		5775	92.897	19.68	99.312	19.97	196.789	22.94

FCC EUT Overview

UNII Band	Channel Bandwidth (MHz)	Tx Frequency (MHz)	SISO				SDM	
			Ant1		Ant2		Summed	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	5180 - 5240	31.485	14.98	29.724	14.73	34.119	15.33
2A		5260 - 5320	85.507	19.32	87.297	19.41	87.297	19.41
2C		5500 - 5720	87.700	19.43	85.704	19.33	88.308	19.46
3		5745 - 5825	94.624	19.76	99.312	19.97	190.108	22.79
1	40	5190 - 5230	54.878	17.39	53.162	17.26	58.614	17.68
2A		5270 - 5310	95.280	19.79	99.770	19.99	155.597	21.92
2C		5510 - 5710	98.855	19.95	98.855	19.95	157.398	21.97
3		5755 - 5795	100.000	20.00	98.401	19.93	197.242	22.95
1	80	5210	30.339	14.82	31.117	14.93	34.041	15.32
2A		5290	54.200	17.34	53.211	17.26	83.753	19.23
2C		5530 - 5690	94.624	19.76	95.280	19.79	195.434	22.91
3		5775	92.897	19.68	99.312	19.97	196.789	22.94

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 ISCED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISCED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISCED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Head Mounted Device FCC ID: BCGA3416** and **IC: 579C-A3416**. 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.: LT7N2M6T39, MWY725700W, DQC74D2TM4, L3RQV9RL7H, J11HFR000020000VL9

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, HDR4, HDR8), NB UNII (1x, BDR, LE1M, LE2M, HDR4, HDR8, HDRp4, HDRp8).

This device supports BT Beamforming.

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

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

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

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

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

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

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Notes:

1. TDWR channels are not supported for ISED.
2. 5GHz NII operation is possible in 20MHz, 40MHz, and 80MHz 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 [%]			DCCF [dB]		
		Ant1	Ant2	CDD	Ant1	Ant2	CDD
5GHz	11ax(RU) 26T HE20	89.19	89.19	89.19	0.50	0.50	0.50
	11ax(RU) 52T HE20	89.25	89.25	88.88	0.49	0.49	0.51
	11ax(RU) 242T HE20	91.14	91.14	91.24	0.40	0.40	0.40
	ax(RU) 26T HE40	89.41	89.41	89.66	0.49	0.49	0.47
	ax(RU) 484T HE40	89.19	89.19	89.37	0.50	0.50	0.49
	ax(RU) 26T HE80	92.41	92.41	93.11	0.34	0.34	0.31
	ax(RU) 996T HE80	89.58	89.58	89.37	0.48	0.48	0.49

Table 2-4. Measured Duty Cycles

$$\text{CDD/SDM} = \text{Ant1} + \text{Ant2}$$

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

WiFi Configurations		SISO		CDD		SDM		STBC	
		Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2
5GHz	11ax (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓

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. The table below shows all configurations possible.

Simultaneous Tx Config	Antenna	WLAN	Bluetooth 2.4GHz	WIFI 5GHz	NB UNII
		802.11 b/g/n/ax	BDR/ EDR/HDR4/HDR8 LE1/2M	802.11 a/n/ac/ax	BDR/LE1/2M/HDR 4/HDR8
Config 1	Ant1	✓	✗	✓	✗
Config 2	Ant1	✗	✓	✓	✗
Config 3	Ant2	✓	✗	✓	✗
Config 4	Ant2	✗	✓	✓	✗
Config 5	NB UNII _L	✗	✓	✗	✓

Table 2-7. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 5 and reported in the RF NB UNII 5GHz & RF BTLE Test Reports.

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2.3 Antenna Description

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

Frequency [GHz]	Antenna Gain (dBi)	
	Ant1	Ant2
5.150 – 5.250	3.3	2.5
5.250 – 5.350	3.4	2.3
5.470 – 5.725	2.6	1.0
5.725 – 5.850	1.2	1.0

Table 2-8. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple Macbook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/ AD/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	USB-C Cable	Model:	N/A	S/N:	909208
3	Right Temple with USB	Model:	N/A	S/N:	HTFGR8000DR000020R
	Left Temple	Model:	N/A	S/N:	HTFH3W0008A00002GY
	Headband	Model:	N/A	S/N:	GKNH59000BV0000215
4	Light Seal	Model:	N/A	S/N:	GKNH4L000KM00008SC
	Light Seal Padding	Model:	N/A	S/N:	GKNH48002G50000G1D
5	EUT Power Pack	Model:	N/A	S/N:	HTHF3V0009H00001MV

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.

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

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

The EUT was manipulated through two orthogonal planes of 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 to USB-C Power Pack to Magnetic Charging Cable
- EUT powered by host PC via USB-C Power Pack to Magnetic Charging Cable

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, 1C2505120065-06.BCG.

2.6 Software and Firmware

The test was conducted with firmware version 23.1.91.307 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
Keysight Technology	N9030A	3Hz-26.5GHz PXA Signal Analyzer	10/31/2024	Annual	10/31/2025	MY55330128
Anritsu	ML2495A	Power Meter	2/10/2025	Annual	2/10/2026	1039008
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Rohde & Schwarz	180-422-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-03
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/16/2024	Annual	9/16/2025	240049
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	9/5/2024	Annual	9/5/2025	MY61320121
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSV40-N	Signal Analyzer (10Hz-40GHz)	9/6/2024	Annual	9/6/2025	101814
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	9/20/2024	Annual	9/20/2025	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	5/6/2025	Annual	5/6/2026	00240231
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/26/2025	Annual	6/26/2026	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/25/2025	Annual	4/25/2026	101364
Rohde & Schwarz	SMW200A	Vector Signal Generator	3/10/2025	Biennial	3/10/2026	110589

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: BCGA3416
 IC: 579C-A3416
 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 (1C250512006 5-08.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 1.4.0.
- 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 3.5.0.
- 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.

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 Ant1 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	MCS11	18.36	19.73
				26	4	MCS11	17.35	19.10
				26	8	MCS11	18.61	20.36
	5200	40	ax (20MHz)	26	0	MCS11	18.37	19.77
				26	4	MCS11	17.36	19.06
				26	8	MCS11	18.64	20.30
	5240	48	ax (20MHz)	26	0	MCS11	18.36	19.93
				26	4	MCS11	17.36	18.90
				26	8	MCS11	18.65	20.49
	5190	38	ax (40MHz)	26	0	MCS11	18.62	20.47
				26	8	MCS11	20.11	22.41
				26	17	MCS11	18.46	20.40
	5230	46	ax (40MHz)	26	0	MCS11	18.62	20.48
				26	8	MCS11	20.23	22.82
				26	17	MCS11	18.49	20.56
	5210	42	ax (80MHz)	26	0	MCS11	18.22	19.93
				26	18	MCS11	37.68	39.75
				26	36	MCS11	19.66	21.27

Table 7-2. Conducted BW Measurements Ant1 (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	MCS11	18.21	20.37
				52	39	MCS11	17.42	19.55
				52	40	MCS11	18.55	20.74
	5280	60	ax (20MHz)	52	37	MCS11	18.27	20.33
				52	39	MCS11	17.43	19.59
				52	40	MCS11	18.48	20.67
	5320	64	ax (20MHz)	52	37	MCS11	18.27	20.31
				52	39	MCS11	17.42	19.61
				52	40	MCS11	18.52	20.78
	5270	54	ax (40MHz)	52	37	MCS11	18.36	20.85
				52	40	MCS11	19.77	24.97
				52	44	MCS11	18.52	21.89
	5310	62	ax (40MHz)	52	37	MCS11	18.62	22.06
				52	40	MCS11	20.06	24.32
				52	44	MCS11	18.44	21.97
	5290	58	ax (80MHz)	52	37	MCS11	18.08	20.31
				52	44	MCS11	19.87	24.21
				52	52	MCS11	19.43	23.15
Band 2C	5500	100	ax (20MHz)	52	37	MCS11	18.24	20.33
				52	39	MCS11	17.42	19.44
				52	40	MCS11	18.55	20.63
	5580	116	ax (20MHz)	52	37	MCS11	18.30	20.35
				52	39	MCS11	17.41	19.37
				52	40	MCS11	18.48	20.68
	5720	144	ax (20MHz)	52	37	MCS11	18.29	20.44
				52	39	MCS11	17.41	19.53
				52	40	MCS11	18.49	20.43
	5510	102	ax (40MHz)	52	37	MCS11	18.48	21.26
				52	40	MCS11	19.95	24.82
				52	44	MCS11	18.50	21.24
	5550	110	ax (40MHz)	52	37	MCS11	18.63	21.75
				52	40	MCS11	20.03	24.22
				52	44	MCS11	18.30	21.04
	*5590	118	ax (40MHz)	52	37	MCS11	18.57	22.11
				52	40	MCS11	20.03	24.27
				52	44	MCS11	18.37	21.59
	5670	134	ax (40MHz)	52	37	MCS11	18.40	20.86
				52	40	MCS11	19.96	23.03
				52	44	MCS11	18.40	21.14
	5710	142	ax (40MHz)	52	37	MCS11	18.56	21.84
				52	40	MCS11	20.03	24.91
				52	44	MCS11	18.33	21.14
	5530	106	ax (80MHz)	52	37	MCS11	18.11	20.43
				52	44	MCS11	20.56	24.75
				52	52	MCS11	19.02	22.34
	*5610	122	ax (80MHz)	52	37	MCS11	18.14	20.21
				52	44	MCS11	20.16	25.05
				52	52	MCS11	19.64	22.86
	5690	138	ax (80MHz)	52	37	MCS11	18.17	20.74
				52	44	MCS11	19.97	25.32
				52	52	MCS11	19.01	21.88

Table 7-3. Conducted BW Measurements Ant1 (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 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	242	61	MCS11	19.03	21.24
	5200	40	ax (20MHz)	242	61	MCS11	19.07	21.23
	5240	48	ax (20MHz)	242	61	MCS11	19.05	21.22
	5190	38	ax (40MHz)	484	65	MCS11	38.03	42.00
	5230	46	ax (40MHz)	484	65	MCS11	38.02	41.82
	5210	42	ax (80MHz)	996	67	MCS11	77.23	82.37
Band 2A	5260	52	ax (20MHz)	242	61	MCS11	19.03	21.31
	5280	60	ax (20MHz)	242	61	MCS11	19.05	21.29
	5320	64	ax (20MHz)	242	61	MCS11	19.04	21.17
	5270	54	ax (40MHz)	484	65	MCS11	38.02	41.96
	5310	62	ax (40MHz)	484	65	MCS11	37.99	41.96
	5290	58	ax (80MHz)	996	67	MCS11	77.25	82.25
Band 2C	5500	100	ax (20MHz)	242	61	MCS11	19.05	21.24
	5580	116	ax (20MHz)	242	61	MCS11	19.00	21.22
	5720	144	ax (20MHz)	242	61	MCS11	19.06	21.25
	5510	102	ax (40MHz)	484	65	MCS11	38.18	41.94
	5550	110	ax (40MHz)	484	65	MCS11	38.14	46.10
	*5590	118	ax (40MHz)	484	65	MCS11	38.07	41.81
	5670	134	ax (40MHz)	484	65	MCS11	38.05	42.04
	5710	142	ax (40MHz)	484	65	MCS11	38.13	42.00
	5530	106	ax (80MHz)	996	67	MCS11	77.45	82.93
	*5610	122	ax (80MHz)	996	67	MCS11	77.15	82.36
	5690	138	ax (80MHz)	996	67	MCS11	77.37	82.91

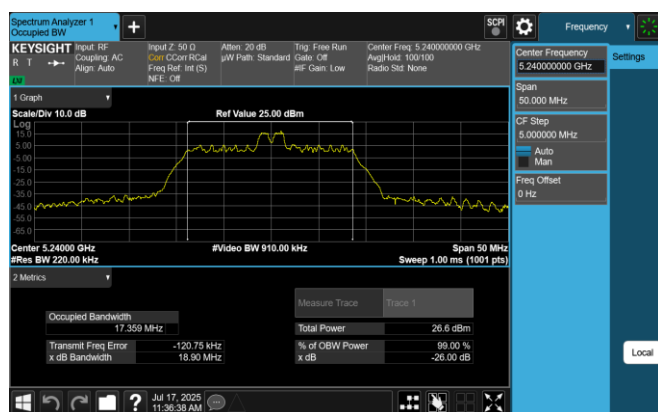
Table 7-4. Conducted BW Measurements Ant1 (Fully – loaded RU)

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

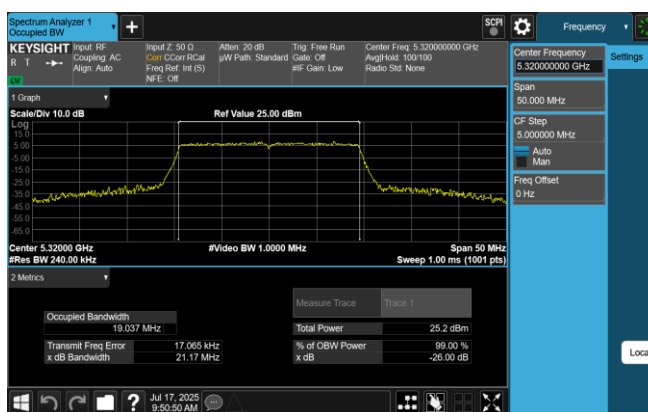
FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-1. 26dB BW & 99% OBW Ant1 (20MHz BW 11ax Index 4 – RU26 – Ch.48)



Plot 7-2. 26dB BW & 99% OBW Ant1 (20MHz BW 11ax– RU242 – Ch.64)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.2.3 Ant2 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	MCS11	18.38	19.89
				26	4	MCS11	17.40	19.12
				26	8	MCS11	18.60	20.40
	5200	40	ax (20MHz)	26	0	MCS11	18.34	20.00
				26	4	MCS11	17.37	19.04
				26	8	MCS11	18.64	20.46
	5240	48	ax (20MHz)	26	0	MCS11	18.37	19.80
				26	4	MCS11	17.40	19.16
				26	8	MCS11	18.61	20.25
	5190	38	ax (40MHz)	26	0	MCS11	18.60	20.73
				26	8	MCS11	19.98	22.10
				26	17	MCS11	18.58	20.89
	5230	46	ax (40MHz)	26	0	MCS11	18.51	20.46
				26	8	MCS11	20.18	22.45
				26	17	MCS11	18.54	20.69
	5210	42	ax (80MHz)	26	0	MCS11	18.16	19.79
				26	18	MCS11	37.67	39.70
				26	36	MCS11	19.26	21.20

Table 7-5. Conducted BW Measurements Ant2 (RU26)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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	MCS11	18.25	20.25
				52	39	MCS11	17.43	19.61
				52	40	MCS11	18.50	20.78
	5280	60	ax (20MHz)	52	37	MCS11	18.27	20.25
				52	39	MCS11	17.44	19.48
				52	40	MCS11	18.51	20.68
	5320	64	ax (20MHz)	52	37	MCS11	18.30	20.26
				52	39	MCS11	17.44	19.61
				52	40	MCS11	18.52	21.03
	5270	54	ax (40MHz)	52	37	MCS11	18.32	21.56
				52	40	MCS11	19.94	23.42
				52	44	MCS11	18.41	21.08
	5310	62	ax (40MHz)	52	37	MCS11	18.46	22.07
				52	40	MCS11	19.68	23.33
				52	44	MCS11	18.47	21.13
	5290	58	ax (80MHz)	52	37	MCS11	18.07	20.59
				52	44	MCS11	19.82	24.39
				52	52	MCS11	19.35	22.58
Band 2C	5500	100	ax (20MHz)	52	37	MCS11	18.29	20.11
				52	39	MCS11	17.43	19.41
				52	40	MCS11	18.51	20.77
	5580	116	ax (20MHz)	52	37	MCS11	18.30	20.25
				52	39	MCS11	17.44	19.44
				52	40	MCS11	18.48	20.77
	5720	144	ax (20MHz)	52	37	MCS11	18.30	20.00
				52	39	MCS11	17.45	19.94
				52	40	MCS11	18.50	20.66
	5510	102	ax (40MHz)	52	37	MCS11	18.47	21.99
				52	40	MCS11	20.08	23.40
				52	44	MCS11	18.49	21.37
	5550	110	ax (40MHz)	52	37	MCS11	18.45	22.20
				52	40	MCS11	19.86	23.69
				52	44	MCS11	18.39	21.06
	*5590	118	ax (40MHz)	52	37	MCS11	18.49	22.17
				52	40	MCS11	20.02	23.36
				52	44	MCS11	18.34	21.04
	5670	134	ax (40MHz)	52	37	MCS11	18.56	21.90
				52	40	MCS11	20.05	23.58
				52	44	MCS11	18.38	21.38
	5710	142	ax (40MHz)	52	37	MCS11	18.46	21.40
				52	40	MCS11	20.03	23.90
				52	44	MCS11	18.41	21.25
	5530	106	ax (80MHz)	52	37	MCS11	18.09	20.38
				52	44	MCS11	20.04	24.22
				52	52	MCS11	19.11	22.59
	*5610	122	ax (80MHz)	52	37	MCS11	18.12	20.53
				52	44	MCS11	19.80	23.33
				52	52	MCS11	19.06	22.69
	5690	138	ax (80MHz)	52	37	MCS11	18.10	20.37
				52	44	MCS11	19.86	24.05
				52	52	MCS11	19.01	22.58

Table 7-6. Conducted BW Measurements Ant2 (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	MCS11	19.06	21.24
	5200	40	ax (20MHz)	242	61	MCS11	19.08	21.33
	5240	48	ax (20MHz)	242	61	MCS11	19.08	21.37
	5190	38	ax (40MHz)	484	65	MCS11	38.32	60.15
	5230	46	ax (40MHz)	484	65	MCS11	38.26	51.38
	5210	42	ax (80MHz)	996	67	MCS11	77.34	98.89
Band 2A	5260	52	ax (20MHz)	242	61	MCS11	19.07	21.32
	5280	60	ax (20MHz)	242	61	MCS11	19.07	21.35
	5320	64	ax (20MHz)	242	61	MCS11	19.14	21.36
	5270	54	ax (40MHz)	484	65	MCS11	38.26	55.69
	5310	62	ax (40MHz)	484	65	MCS11	38.27	55.95
	5290	58	ax (80MHz)	996	67	MCS11	77.32	98.52
Band 2C	5500	100	ax (20MHz)	242	61	MCS11	19.09	21.33
	5580	116	ax (20MHz)	242	61	MCS11	19.10	22.18
	5720	144	ax (20MHz)	242	61	MCS11	19.10	21.54
	5510	102	ax (40MHz)	484	65	MCS11	38.29	48.26
	5550	110	ax (40MHz)	484	65	MCS11	38.42	62.78
	*5590	118	ax (40MHz)	484	65	MCS11	38.35	62.28
	5670	134	ax (40MHz)	484	65	MCS11	38.21	48.47
	5710	142	ax (40MHz)	484	65	MCS11	38.27	48.38
	5530	106	ax (80MHz)	996	67	MCS11	77.47	98.10
	*5610	122	ax (80MHz)	996	67	MCS11	77.46	116.12
	5690	138	ax (80MHz)	996	67	MCS11	77.37	82.89

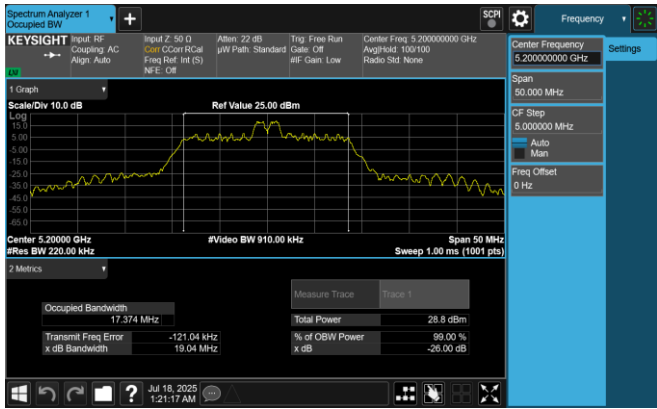
Table 7-7. Conducted BW Measurements Ant2 (Fully – loaded RU)

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

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-3. 26dB BW & 99% OBW Ant2 (20MHz BW 11ax Index 4 – RU26 – Ch.40)



Plot 7-4. 26dB BW & 99% OBW Ant2 (20MHz BW 11ax– RU242 – Ch.36)

FCC ID: BCGA3416 IC: 579C-A3416	 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 channel bandwidth plots have been reported.

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3.1 Ant1 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	26	0	MCS11	18.13	2.09	0.50	Pass
				26	4	MCS11	17.23	2.70	0.50	Pass
				26	8	MCS11	18.30	2.10	0.50	Pass
	5785	157	ax (20MHz)	26	0	MCS11	18.12	2.14	0.50	Pass
				26	4	MCS11	17.24	2.71	0.50	Pass
				26	8	MCS11	18.32	2.12	0.50	Pass
	5825	165	ax (20MHz)	26	0	MCS11	18.16	2.12	0.50	Pass
				26	4	MCS11	17.25	2.71	0.50	Pass
				26	8	MCS11	18.31	2.11	0.50	Pass
	5755	151	ax (40MHz)	26	0	MCS11	17.94	2.16	0.50	Pass
				26	8	MCS11	18.76	2.14	0.50	Pass
				26	17	MCS11	17.98	2.11	0.50	Pass
	5795	159	ax (40MHz)	26	0	MCS11	17.92	2.14	0.50	Pass
				26	8	MCS11	18.73	2.16	0.50	Pass
				26	17	MCS11	17.95	2.12	0.50	Pass
	5775	155	ax (80MHz)	26	0	MCS11	17.79	2.27	0.50	Pass
				26	18	MCS11	36.58	2.86	0.50	Pass
				26	36	MCS11	18.02	2.26	0.50	Pass

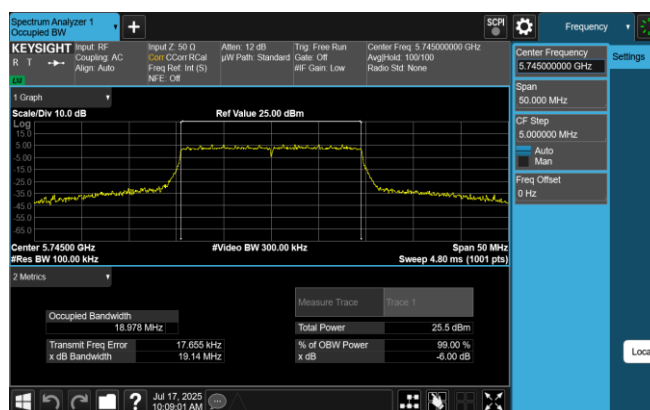
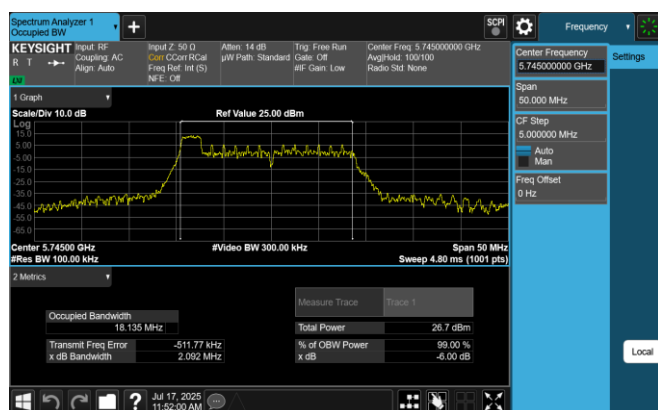
Table 7-8. Conducted Bandwidth Measurements Ant1 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	242	61	MCS11	18.98	19.14	0.50	Pass
	5785	157	ax (20MHz)	242	61	MCS11	18.97	19.16	0.50	Pass
	5825	165	ax (20MHz)	242	61	MCS11	18.98	19.16	0.50	Pass
	5755	151	ax (40MHz)	484	65	MCS11	37.80	38.20	0.50	Pass
	5795	159	ax (40MHz)	484	65	MCS11	37.85	38.22	0.50	Pass
	5775	155	ax (80MHz)	996	67	MCS11	77.04	77.84	0.50	Pass

Table 7-9. Conducted Bandwidth Measurements Ant1 (Fully- loaded RU)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.3.2 Ant2 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	26	0	MCS11	18.14	2.11	0.50	Pass
				26	4	MCS11	17.25	2.71	0.50	Pass
				26	8	MCS11	18.31	2.11	0.50	Pass
	5785	157	ax (20MHz)	26	0	MCS11	18.15	2.11	0.50	Pass
				26	4	MCS11	17.24	2.71	0.50	Pass
				26	8	MCS11	18.32	2.11	0.50	Pass
	5825	165	ax (20MHz)	26	0	MCS11	18.14	2.11	0.50	Pass
				26	4	MCS11	17.24	2.70	0.50	Pass
				26	8	MCS11	18.33	2.11	0.50	Pass
	5755	151	ax (40MHz)	26	0	MCS11	17.94	2.16	0.50	Pass
				26	8	MCS11	18.75	2.15	0.50	Pass
				26	17	MCS11	17.91	2.13	0.50	Pass
	5795	159	ax (40MHz)	26	0	MCS11	17.96	2.20	0.50	Pass
				26	8	MCS11	18.79	2.17	0.50	Pass
				26	17	MCS11	17.93	2.12	0.50	Pass
	5775	155	ax (80MHz)	26	0	MCS11	17.77	2.27	0.50	Pass
				26	18	MCS11	36.47	2.86	0.50	Pass
				26	36	MCS11	18.01	2.25	0.50	Pass

Table 7-10. Conducted Bandwidth Measurements Ant2 (RU26)

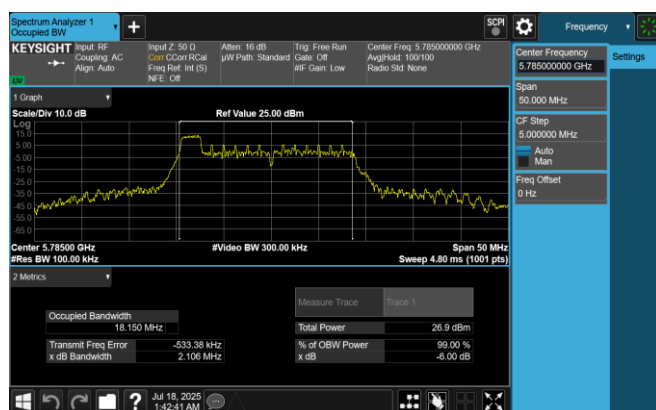
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	242	61	MCS11	18.98	19.11	0.50	Pass
	5785	157	ax (20MHz)	242	61	MCS11	18.99	19.12	0.50	Pass
	5825	165	ax (20MHz)	242	61	MCS11	19.00	19.14	0.50	Pass
	5755	151	ax (40MHz)	484	65	MCS11	37.88	38.22	0.50	Pass
	5795	159	ax (40MHz)	484	65	MCS11	37.85	38.19	0.50	Pass
	5775	155	ax (80MHz)	996	67	MCS11	76.93	77.98	0.50	Pass

Table 7-11. Conducted Bandwidth Measurements Ant2 (Fully- loaded RU)

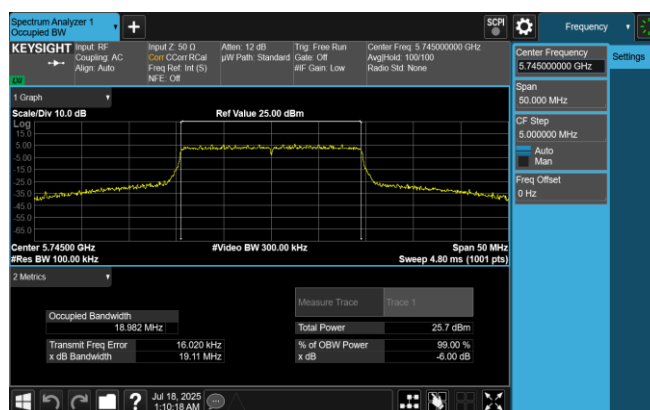
FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-7. 6dB BW & 99% OBW Ant2 (20MHz BW 11ax Index 0 – RU26 – Ch.157)



Plot 7-8. 6dB BW & 99% OBW Ant2 (20MHz BW 11ax– RU242 – Ch.149)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4 Conducted Output Power and Max EIRP Measurement

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

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. B is the 99% OBW per 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 $11 \text{ dBm} + 10\log_{10}(B)$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10}(B)$, dBm.

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

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

Test Procedure Used

ANSI C63.10-2020 – 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 and 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 Ant1 Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	26	0	12.5/14.7 (MCS11)	10.55	23.98	-13.43
			AVG	26	4	12.5/14.7 (MCS11)	10.72	23.98	-13.26
			AVG	26	8	12.5/14.7 (MCS11)	10.56	23.98	-13.42
	5200	40	AVG	26	0	12.5/14.7 (MCS11)	10.55	23.98	-13.43
			AVG	26	4	12.5/14.7 (MCS11)	10.70	23.98	-13.28
			AVG	26	8	12.5/14.7 (MCS11)	10.65	23.98	-13.33
	5240	48	AVG	26	0	12.5/14.7 (MCS11)	10.77	23.98	-13.21
			AVG	26	4	12.5/14.7 (MCS11)	10.69	23.98	-13.29
			AVG	26	8	12.5/14.7 (MCS11)	10.94	23.98	-13.04
	5745	149	AVG	26	0	12.5/14.7 (MCS11)	10.75	30.00	-19.25
			AVG	26	4	12.5/14.7 (MCS11)	10.85	30.00	-19.15
			AVG	26	8	12.5/14.7 (MCS11)	10.93	30.00	-19.07
	5785	157	AVG	26	0	12.5/14.7 (MCS11)	10.86	30.00	-19.14
			AVG	26	4	12.5/14.7 (MCS11)	10.75	30.00	-19.25
			AVG	26	8	12.5/14.7 (MCS11)	10.69	30.00	-19.31
	5825	165	AVG	26	0	12.5/14.7 (MCS11)	10.83	30.00	-19.17
			AVG	26	4	12.5/14.7 (MCS11)	10.85	30.00	-19.15
			AVG	26	8	12.5/14.7 (MCS11)	10.74	30.00	-19.26

Table 7-12. FCC Ant1 20MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	26	0	12.5/14.7 (MCS11)	10.59	23.98	-13.39
			AVG	26	8	12.5/14.7 (MCS11)	10.98	23.98	-13.00
			AVG	26	17	12.5/14.7 (MCS11)	10.54	23.98	-13.44
	5230	46	AVG	26	0	12.5/14.7 (MCS11)	10.50	23.98	-13.48
			AVG	26	8	12.5/14.7 (MCS11)	10.67	23.98	-13.31
			AVG	26	17	12.5/14.7 (MCS11)	10.94	23.98	-13.04
	5755	151	AVG	26	0	12.5/14.7 (MCS11)	10.96	30.00	-19.04
			AVG	26	8	12.5/14.7 (MCS11)	10.59	30.00	-19.41
			AVG	26	17	12.5/14.7 (MCS11)	10.73	30.00	-19.27
	5795	159	AVG	26	0	12.5/14.7 (MCS11)	10.76	30.00	-19.24
			AVG	26	8	12.5/14.7 (MCS11)	10.88	30.00	-19.12
			AVG	26	17	12.5/14.7 (MCS11)	10.93	30.00	-19.07

Table 7-13. FCC Ant1 40MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	26	0	12.5/14.7 (MCS11)	8.94	23.98	-15.04
			AVG	26	18	12.5/14.7 (MCS11)	8.75	23.98	-15.23
			AVG	26	36	12.5/14.7 (MCS11)	8.97	23.98	-15.01
	5775	155	AVG	26	0	12.5/14.7 (MCS11)	10.69	30.00	-19.31
			AVG	26	18	12.5/14.7 (MCS11)	10.64	30.00	-19.36
			AVG	26	36	12.5/14.7 (MCS11)	10.89	30.00	-19.11

Table 7-14. FCC Ant1 80MHz BW (UNII) Maximum Conducted Output Power (RU26)

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7.4.2 ISED Ant1 Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	26	0	12.5/14.7 (MCS11)	6.90	-	-	3.30	10.20	22.76	-12.56
			AVG	26	4	12.5/14.7 (MCS11)	6.60	-	-	3.30	9.90	22.76	-12.86
			AVG	26	8	12.5/14.7 (MCS11)	6.88	-	-	3.30	10.18	22.76	-12.58
	5200	40	AVG	26	0	12.5/14.7 (MCS11)	6.54	-	-	3.30	9.84	22.76	-12.92
			AVG	26	4	12.5/14.7 (MCS11)	6.53	-	-	3.30	9.83	22.76	-12.93
			AVG	26	8	12.5/14.7 (MCS11)	6.60	-	-	3.30	9.90	22.76	-12.86
	5240	48	AVG	26	0	12.5/14.7 (MCS11)	6.86	-	-	3.30	10.16	22.76	-12.61
			AVG	26	4	12.5/14.7 (MCS11)	6.39	-	-	3.30	9.69	22.76	-13.07
			AVG	26	8	12.5/14.7 (MCS11)	6.81	-	-	3.30	10.11	22.76	-12.65
	5745	149	AVG	26	0	12.5/14.7 (MCS11)	10.75	30.00	-19.25	1.20	11.95	-	-
			AVG	26	4	12.5/14.7 (MCS11)	10.85	30.00	-19.15	1.20	12.05	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.93	30.00	-19.07	1.20	12.13	-	-
	5785	157	AVG	26	0	12.5/14.7 (MCS11)	10.86	30.00	-19.14	1.20	12.06	-	-
			AVG	26	4	12.5/14.7 (MCS11)	10.75	30.00	-19.25	1.20	11.95	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.69	30.00	-19.31	1.20	11.89	-	-
	5825	165	AVG	26	0	12.5/14.7 (MCS11)	10.83	30.00	-19.17	1.20	12.03	-	-
			AVG	26	4	12.5/14.7 (MCS11)	10.85	30.00	-19.15	1.20	12.05	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.74	30.00	-19.26	1.20	11.94	-	-

Table 7-15. ISED Ant1 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	26	0	12.5/14.7 (MCS11)	6.78	-	-	3.30	10.08	22.76	-12.69
			AVG	26	8	12.5/14.7 (MCS11)	6.56	-	-	3.30	9.86	22.76	-12.91
			AVG	26	17	12.5/14.7 (MCS11)	6.78	-	-	3.30	10.08	22.76	-12.68
	5230	46	AVG	26	0	12.5/14.7 (MCS11)	6.73	-	-	3.30	10.03	22.76	-12.73
			AVG	26	8	12.5/14.7 (MCS11)	6.48	-	-	3.30	9.78	22.76	-12.98
			AVG	26	17	12.5/14.7 (MCS11)	6.28	-	-	3.30	9.58	22.76	-13.18
	5755	151	AVG	26	0	12.5/14.7 (MCS11)	10.96	30.00	-19.04	1.20	12.16	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.59	30.00	-19.41	1.20	11.79	-	-
			AVG	26	17	12.5/14.7 (MCS11)	10.73	30.00	-19.27	1.20	11.93	-	-
	5795	159	AVG	26	0	12.5/14.7 (MCS11)	10.76	30.00	-19.24	1.20	11.96	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.88	30.00	-19.12	1.20	12.08	-	-
			AVG	26	17	12.5/14.7 (MCS11)	10.93	30.00	-19.07	1.20	12.13	-	-

Table 7-16. ISED Ant1 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	26	0	12.5/14.7 (MCS11)	6.60	-	-	3.30	9.90	22.76	-12.87
			AVG	26	18	12.5/14.7 (MCS11)	6.86	-	-	3.30	10.16	22.76	-12.61
			AVG	26	36	12.5/14.7 (MCS11)	6.90	-	-	3.30	10.20	22.76	-12.56
	5775	155	AVG	26	0	12.5/14.7 (MCS11)	10.69	30.00	-19.31	1.20	11.89	-	-
			AVG	26	18	12.5/14.7 (MCS11)	10.64	30.00	-19.36	1.20	11.84	-	-
			AVG	26	36	12.5/14.7 (MCS11)	10.89	30.00	-19.11	1.20	12.09	-	-

Table 7-17. ISED Ant1 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

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7.4.3 FCC Ant1 Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5260	52	AVG	52	37	25/29.4 (MCS11)	14.00	23.90	-9.90
			AVG	52	39	25/29.4 (MCS11)	13.78	23.90	-10.12
			AVG	52	40	25/29.4 (MCS11)	13.90	23.90	-10.00
	5300	60	AVG	52	37	25/29.4 (MCS11)	13.85	23.90	-10.04
			AVG	52	39	25/29.4 (MCS11)	13.87	23.90	-10.02
			AVG	52	40	25/29.4 (MCS11)	13.61	23.90	-10.28
	5320	64	AVG	52	37	25/29.4 (MCS11)	13.93	23.90	-9.97
			AVG	52	39	25/29.4 (MCS11)	13.83	23.90	-10.06
			AVG	52	40	25/29.4 (MCS11)	13.98	23.90	-9.91
	5500	100	AVG	52	37	25/29.4 (MCS11)	13.56	23.87	-10.31
			AVG	52	39	25/29.4 (MCS11)	13.78	23.87	-10.09
			AVG	52	40	25/29.4 (MCS11)	13.77	23.87	-10.10
	5580	116	AVG	52	37	25/29.4 (MCS11)	13.87	23.87	-10.01
			AVG	52	39	25/29.4 (MCS11)	13.53	23.87	-10.35
			AVG	52	40	25/29.4 (MCS11)	13.79	23.87	-10.08
	5720	144	AVG	52	37	25/29.4 (MCS11)	13.94	23.87	-9.93
			AVG	52	39	25/29.4 (MCS11)	13.54	23.87	-10.34
			AVG	52	40	25/29.4 (MCS11)	13.83	23.87	-10.04

Table 7-18. FCC Ant1 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5270	54	AVG	52	37	25/29.4 (MCS11)	13.96	23.90	-9.93
			AVG	52	40	25/29.4 (MCS11)	13.70	23.90	-10.20
			AVG	52	44	25/29.4 (MCS11)	13.91	23.90	-9.98
	5310	62	AVG	52	37	25/29.4 (MCS11)	11.85	23.90	-12.05
			AVG	52	40	25/29.4 (MCS11)	11.78	23.90	-12.11
			AVG	52	44	25/29.4 (MCS11)	11.94	23.90	-11.95
	5510	102	AVG	52	37	25/29.4 (MCS11)	11.67	23.87	-12.21
			AVG	52	40	25/29.4 (MCS11)	11.77	23.87	-12.10
			AVG	52	44	25/29.4 (MCS11)	11.64	23.87	-12.24
	5550	110	AVG	52	37	25/29.4 (MCS11)	13.83	23.87	-10.04
			AVG	52	40	25/29.4 (MCS11)	13.51	23.87	-10.36
			AVG	52	44	25/29.4 (MCS11)	13.87	23.87	-10.00
	5590	118	AVG	52	37	25/29.4 (MCS11)	13.85	23.87	-10.03
			AVG	52	40	25/29.4 (MCS11)	13.99	23.87	-9.89
			AVG	52	44	25/29.4 (MCS11)	13.58	23.87	-10.29
	5670	134	AVG	52	37	25/29.4 (MCS11)	13.64	23.87	-10.24
			AVG	52	40	25/29.4 (MCS11)	13.60	23.87	-10.28
			AVG	52	44	25/29.4 (MCS11)	13.73	23.87	-10.14
	5710	142	AVG	52	37	25/29.4 (MCS11)	13.77	23.87	-10.10
			AVG	52	40	25/29.4 (MCS11)	13.94	23.87	-9.93
			AVG	52	44	25/29.4 (MCS11)	13.64	23.87	-10.24

Table 7-19. FCC Ant1 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5290	58	AVG	52	37	25/29.4 (MCS11)	11.92	23.90	-11.98
			AVG	52	44	25/29.4 (MCS11)	11.57	23.90	-12.33
			AVG	52	52	25/29.4 (MCS11)	11.97	23.90	-11.92
	5530	106	AVG	52	37	25/29.4 (MCS11)	11.98	23.87	-11.90
			AVG	52	44	25/29.4 (MCS11)	11.94	23.87	-11.93
			AVG	52	52	25/29.4 (MCS11)	11.92	23.87	-11.96
	5690	138	AVG	52	37	25/29.4 (MCS11)	13.81	23.87	-10.07
			AVG	52	44	25/29.4 (MCS11)	13.86	23.87	-10.01
			AVG	52	52	25/29.4 (MCS11)	13.80	23.87	-10.07

Table 7-20. FCC Ant1 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.4 ISED Ant1 Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	52	37	25/29.4 (MCS11)	14.00	23.90	-9.90	3.40	17.40	29.90	-12.50
			AVG	52	39	25/29.4 (MCS11)	13.78	23.90	-10.12	3.40	17.18	29.90	-12.72
			AVG	52	40	25/29.4 (MCS11)	13.90	23.90	-10.00	3.40	17.30	29.90	-12.60
	5300	60	AVG	52	37	25/29.4 (MCS11)	13.85	23.90	-10.04	3.40	17.25	29.90	-12.64
			AVG	52	39	25/29.4 (MCS11)	13.87	23.90	-10.02	3.40	17.27	29.90	-12.62
			AVG	52	40	25/29.4 (MCS11)	13.61	23.90	-10.28	3.40	17.01	29.90	-12.88
	5320	64	AVG	52	37	25/29.4 (MCS11)	13.93	23.90	-9.97	3.40	17.33	29.90	-12.57
			AVG	52	39	25/29.4 (MCS11)	13.83	23.90	-10.06	3.40	17.23	29.90	-12.66
			AVG	52	40	25/29.4 (MCS11)	13.98	23.90	-9.91	3.40	17.38	29.90	-12.51
	5500	100	AVG	52	37	25/29.4 (MCS11)	13.56	23.87	-10.31	2.60	16.16	29.87	-13.71
			AVG	52	39	25/29.4 (MCS11)	13.78	23.87	-10.09	2.60	16.38	29.87	-13.49
			AVG	52	40	25/29.4 (MCS11)	13.77	23.87	-10.10	2.60	16.37	29.87	-13.50
	5580	116	AVG	52	37	25/29.4 (MCS11)	13.87	23.87	-10.01	2.60	16.47	29.87	-13.41
			AVG	52	39	25/29.4 (MCS11)	13.53	23.87	-10.35	2.60	16.13	29.87	-13.75
			AVG	52	40	25/29.4 (MCS11)	13.79	23.87	-10.08	2.60	16.39	29.87	-13.48
	5720	144	AVG	52	37	25/29.4 (MCS11)	13.94	23.87	-9.93	2.60	16.54	29.87	-13.33
			AVG	52	39	25/29.4 (MCS11)	13.54	23.87	-10.34	2.60	16.14	29.87	-13.74
			AVG	52	40	25/29.4 (MCS11)	13.83	23.87	-10.04	2.60	16.43	29.87	-13.44

Table 7-21. ISED Ant1 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	52	37	25/29.4 (MCS11)	13.96	23.90	-9.93	3.40	17.36	29.90	-12.53
			AVG	52	40	25/29.4 (MCS11)	13.70	23.90	-10.20	3.40	17.10	29.90	-12.80
			AVG	52	44	25/29.4 (MCS11)	13.91	23.90	-9.98	3.40	17.31	29.90	-12.58
	5310	62	AVG	52	37	25/29.4 (MCS11)	11.85	23.90	-12.05	3.40	15.25	29.90	-14.65
			AVG	52	40	25/29.4 (MCS11)	11.78	23.90	-12.11	3.40	15.18	29.90	-14.71
			AVG	52	44	25/29.4 (MCS11)	11.94	23.90	-11.95	3.40	15.34	29.90	-14.55
	5510	102	AVG	52	37	25/29.4 (MCS11)	11.67	23.87	-12.21	2.60	14.27	29.87	-15.61
			AVG	52	40	25/29.4 (MCS11)	11.77	23.87	-12.10	2.60	14.37	29.87	-15.50
			AVG	52	44	25/29.4 (MCS11)	11.64	23.87	-12.24	2.60	14.24	29.87	-15.64
	5550	110	AVG	52	37	25/29.4 (MCS11)	13.83	23.87	-10.04	2.60	16.43	29.87	-13.44
			AVG	52	40	25/29.4 (MCS11)	13.51	23.87	-10.36	2.60	16.11	29.87	-13.76
			AVG	52	44	25/29.4 (MCS11)	13.87	23.87	-10.00	2.60	16.47	29.87	-13.40
	5670	134	AVG	52	37	25/29.4 (MCS11)	13.64	23.87	-10.24	2.60	16.24	29.87	-13.64
			AVG	52	40	25/29.4 (MCS11)	13.60	23.87	-10.28	2.60	16.20	29.87	-13.68
			AVG	52	44	25/29.4 (MCS11)	13.73	23.87	-10.14	2.60	16.33	29.87	-13.54
	5710	142	AVG	52	37	25/29.4 (MCS11)	13.77	23.87	-10.10	2.60	16.37	29.87	-13.50
			AVG	52	40	25/29.4 (MCS11)	13.94	23.87	-9.93	2.60	16.54	29.87	-13.33
			AVG	52	44	25/29.4 (MCS11)	13.64	23.87	-10.24	2.60	16.24	29.87	-13.64

Table 7-22. ISED Ant1 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	52	37	25/29.4 (MCS11)	11.92	23.90	-11.98	3.40	15.32	29.90	-14.58
			AVG	52	44	25/29.4 (MCS11)	11.57	23.90	-12.33	3.40	14.97	29.90	-14.93
			AVG	52	52	25/29.4 (MCS11)	11.97	23.90	-11.92	3.40	15.37	29.90	-14.52
	5530	106	AVG	52	37	25/29.4 (MCS11)	11.98	23.87	-11.90	2.60	14.58	29.87	-15.30
			AVG	52	44	25/29.4 (MCS11)	11.94	23.87	-11.93	2.60	14.54	29.87	-15.33
			AVG	52	52	25/29.4 (MCS11)	11.92	23.87	-11.96	2.60	14.52	29.87	-15.36
	5690	138	AVG	52	37	25/29.4 (MCS11)	13.81	23.87	-10.07	2.60	16.41	29.87	-13.47
			AVG	52	44	25/29.4 (MCS11)	13.86	23.87	-10.01	2.60	16.46	29.87	-13.41
			AVG	52	52	25/29.4 (MCS11)	13.80	23.87	-10.07	2.60	16.40	29.87	-13.47

Table 7-23. ISED Ant1 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 35 of 150

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7.4.5 FCC Ant1 Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	106	53	53.1/62.5 (MCS11)	16.63	23.98	-7.35
			AVG	106	54	53.1/62.5 (MCS11)	16.76	23.98	-7.22
	5200	40	AVG	106	53	53.1/62.5 (MCS11)	16.85	23.98	-7.13
			AVG	106	54	53.1/62.5 (MCS11)	16.85	23.98	-7.13
	5240	48	AVG	106	53	53.1/62.5 (MCS11)	16.84	23.98	-7.14
			AVG	106	54	53.1/62.5 (MCS11)	16.73	23.98	-7.25
	5260	52	AVG	106	53	53.1/62.5 (MCS11)	16.98	23.90	-6.92
			AVG	106	54	53.1/62.5 (MCS11)	16.95	23.90	-6.95
	5300	60	AVG	106	53	53.1/62.5 (MCS11)	16.97	23.90	-6.93
			AVG	106	54	53.1/62.5 (MCS11)	16.74	23.90	-7.15
	5320	64	AVG	106	53	53.1/62.5 (MCS11)	16.51	23.90	-7.39
			AVG	106	54	53.1/62.5 (MCS11)	16.56	23.90	-7.33
	5500	100	AVG	106	53	53.1/62.5 (MCS11)	16.82	23.87	-7.05
			AVG	106	54	53.1/62.5 (MCS11)	16.74	23.87	-7.13
	5580	116	AVG	106	53	53.1/62.5 (MCS11)	16.59	23.87	-7.28
			AVG	106	54	53.1/62.5 (MCS11)	16.77	23.87	-7.10
	5720	144	AVG	106	53	53.1/62.5 (MCS11)	16.65	23.87	-7.22
			AVG	106	54	53.1/62.5 (MCS11)	16.86	23.87	-7.01
	5745	149	AVG	106	53	53.1/62.5 (MCS11)	16.85	30.00	-13.15
			AVG	106	54	53.1/62.5 (MCS11)	16.90	30.00	-13.10
	5785	157	AVG	106	53	53.1/62.5 (MCS11)	16.54	30.00	-13.46
			AVG	106	54	53.1/62.5 (MCS11)	16.60	30.00	-13.40
	5825	165	AVG	106	53	53.1/62.5 (MCS11)	16.67	30.00	-13.33
			AVG	106	54	53.1/62.5 (MCS11)	16.80	30.00	-13.21

Table 7-24. FCC Ant1 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 36 of 150

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	106	53	53.1/62.5 (MCS11)	16.72	23.98	-7.26
			AVG	106	54	53.1/62.5 (MCS11)	16.71	23.98	-7.27
			AVG	106	56	53.1/62.5 (MCS11)	16.73	23.98	-7.25
	5230	46	AVG	242	61	121.9/143.4 (MCS11)	19.25	23.98	-4.73
			AVG	242	62	121.9/143.4 (MCS11)	19.19	23.98	-4.79
	5270	54	AVG	242	61	121.9/143.4 (MCS11)	19.43	23.90	-4.46
			AVG	242	62	121.9/143.4 (MCS11)	19.10	23.90	-4.79
	5310	62	AVG	242	61	121.9/143.4 (MCS11)	17.12	23.90	-6.77
			AVG	242	62	121.9/143.4 (MCS11)	17.36	23.90	-6.53
	5510	102	AVG	242	61	121.9/143.4 (MCS11)	14.77	23.87	-9.11
			AVG	242	62	121.9/143.4 (MCS11)	14.56	23.87	-9.31
	5550	110	AVG	242	61	121.9/143.4 (MCS11)	19.38	23.87	-4.50
			AVG	242	62	121.9/143.4 (MCS11)	19.34	23.87	-4.53
	5590	118	AVG	242	61	121.9/143.4 (MCS11)	19.37	23.87	-4.50
			AVG	242	62	121.9/143.4 (MCS11)	19.27	23.87	-4.60
	5630	126	AVG	242	61	121.9/143.4 (MCS11)	19.05	23.87	-4.83
			AVG	242	62	121.9/143.4 (MCS11)	19.15	23.87	-4.72
	5670	134	AVG	242	61	121.9/143.4 (MCS11)	19.05	23.87	-4.82
			AVG	242	62	121.9/143.4 (MCS11)	19.16	23.87	-4.71
	5710	142	AVG	106	53	53.1/62.5 (MCS11)	16.66	23.87	-7.21
			AVG	106	54	53.1/62.5 (MCS11)	16.81	23.87	-7.06
			AVG	106	56	53.1/62.5 (MCS11)	16.99	23.87	-6.88
	5755	151	AVG	242	61	121.9/143.4 (MCS11)	19.78	30.00	-10.22
			AVG	242	62	121.9/143.4 (MCS11)	19.74	30.00	-10.26
	5795	159	AVG	242	61	121.9/143.4 (MCS11)	20.00	30.00	-10.00
			AVG	242	62	121.9/143.4 (MCS11)	19.95	30.00	-10.05

Table 7-25. FCC Ant1 40MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	242	61	121.9/143.4 (MCS11)	16.00	23.98	-7.98
			AVG	242	62	121.9/143.4 (MCS11)	15.71	23.98	-8.27
	5290	58	AVG	242	61	121.9/143.4 (MCS11)	17.34	23.90	-6.56
			AVG	242	62	121.9/143.4 (MCS11)	17.13	23.90	-6.77
	5530	106	AVG	242	61	121.9/143.4 (MCS11)	14.51	23.87	-9.36
			AVG	242	62	121.9/143.4 (MCS11)	14.89	23.87	-8.98
	5610	122	AVG	484	65	243.8/286.8 (MCS11)	19.55	23.87	-4.32
			AVG	484	66	243.8/286.8 (MCS11)	19.76	23.87	-4.11
	5775	155	AVG	242	61	121.9/143.4 (MCS11)	19.57	30.00	-10.43
			AVG	242	62	121.9/143.4 (MCS11)	19.68	30.00	-10.32

Table 7-26. FCC Ant1 80MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 37 of 150

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7.4.6 ISED Ant1 Conducted Output Power Measurements (Highest Power Among Partially Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	106	53	53.1/62.5 (MCS11)	12.82	-	-	3.30	16.12	22.76	-6.64
			AVG	106	54	53.1/62.5 (MCS11)	12.67	-	-	3.30	15.97	22.76	-6.80
	5200	40	AVG	106	53	53.1/62.5 (MCS11)	12.79	-	-	3.30	16.09	22.76	-6.67
			AVG	106	54	53.1/62.5 (MCS11)	12.80	-	-	3.30	16.10	22.76	-6.67
	5240	48	AVG	106	53	53.1/62.5 (MCS11)	12.99	-	-	3.30	16.29	22.76	-6.48
			AVG	106	54	53.1/62.5 (MCS11)	12.95	-	-	3.30	16.25	22.76	-6.52
	5260	52	AVG	106	53	53.1/62.5 (MCS11)	16.98	23.90	-6.92	3.40	20.38	29.90	-9.52
			AVG	106	54	53.1/62.5 (MCS11)	16.95	23.90	-6.95	3.40	20.35	29.90	-9.55
	5300	60	AVG	106	53	53.1/62.5 (MCS11)	16.97	23.90	-6.93	3.40	20.37	29.90	-9.53
			AVG	106	54	53.1/62.5 (MCS11)	16.74	23.90	-7.15	3.40	20.14	29.90	-9.75
	5320	64	AVG	106	53	53.1/62.5 (MCS11)	16.51	23.90	-7.39	3.40	19.91	29.90	-9.99
			AVG	106	54	53.1/62.5 (MCS11)	16.56	23.90	-7.33	3.40	19.96	29.90	-9.93
	5500	100	AVG	106	53	53.1/62.5 (MCS11)	16.82	23.87	-7.05	2.60	19.42	29.87	-10.45
			AVG	106	54	53.1/62.5 (MCS11)	16.74	23.87	-7.13	2.60	19.34	29.87	-10.53
	5580	116	AVG	106	53	53.1/62.5 (MCS11)	16.59	23.87	-7.28	2.60	19.19	29.87	-10.68
			AVG	106	54	53.1/62.5 (MCS11)	16.77	23.87	-7.10	2.60	19.37	29.87	-10.50
	5720	144	AVG	106	53	53.1/62.5 (MCS11)	16.65	23.87	-7.22	2.60	19.25	29.87	-10.62
			AVG	106	54	53.1/62.5 (MCS11)	16.86	23.87	-7.01	2.60	19.46	29.87	-10.41
	5745	149	AVG	106	53	53.1/62.5 (MCS11)	16.85	30.00	-13.15	1.20	18.05	-	-
			AVG	106	54	53.1/62.5 (MCS11)	16.90	30.00	-13.10	1.20	18.10	-	-
	5785	157	AVG	106	53	53.1/62.5 (MCS11)	16.54	30.00	-13.46	1.20	17.74	-	-
			AVG	106	54	53.1/62.5 (MCS11)	16.60	30.00	-13.40	1.20	17.80	-	-
	5825	165	AVG	106	53	53.1/62.5 (MCS11)	16.67	30.00	-13.33	1.20	17.87	-	-
			AVG	106	54	53.1/62.5 (MCS11)	16.80	30.00	-13.21	1.20	18.00	-	-

Table 7-27. ISED Ant1 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially Loaded RU's)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	242	61	121.9/143.4 (MCS11)	14.96	-	-	3.30	18.26	22.76	-4.50
			AVG	242	62	121.9/143.4 (MCS11)	14.70	-	-	3.30	18.00	22.76	-4.76
	5230	46	AVG	242	61	121.9/143.4 (MCS11)	14.68	-	-	3.30	17.98	22.76	-4.78
			AVG	242	62	121.9/143.4 (MCS11)	14.93	-	-	3.30	18.23	22.76	-4.53
	5270	54	AVG	242	61	121.9/143.4 (MCS11)	19.43	23.90	-4.46	3.40	22.83	29.90	-7.06
			AVG	242	62	121.9/143.4 (MCS11)	19.10	23.90	-4.79	3.40	22.50	29.90	-7.39
	5310	62	AVG	242	61	121.9/143.4 (MCS11)	17.12	23.90	-6.77	3.40	20.52	29.90	-9.37
			AVG	242	62	121.9/143.4 (MCS11)	17.36	23.90	-6.53	3.40	20.76	29.90	-9.13
	5510	102	AVG	242	61	121.9/143.4 (MCS11)	14.77	23.87	-9.11	2.60	17.37	29.87	-12.51
			AVG	242	62	121.9/143.4 (MCS11)	14.56	23.87	-9.31	2.60	17.16	29.87	-12.71
	5550	110	AVG	242	61	121.9/143.4 (MCS11)	19.38	23.87	-4.50	2.60	21.98	29.87	-7.90
			AVG	242	62	121.9/143.4 (MCS11)	19.34	23.87	-4.53	2.60	21.94	29.87	-7.93
	5670	134	AVG	242	61	121.9/143.4 (MCS11)	19.05	23.87	-4.82	2.60	21.65	29.87	-8.22
			AVG	242	62	121.9/143.4 (MCS11)	19.16	23.87	-4.71	2.60	21.76	29.87	-8.11
	5710	142	AVG	106	53	53.1/62.5 (MCS11)	16.66	23.87	-7.21	2.60	19.26	29.87	-10.61
			AVG	106	54	53.1/62.5 (MCS11)	16.81	23.87	-7.06	2.60	19.41	29.87	-10.46
			AVG	106	56	53.1/62.5 (MCS11)	16.99	23.87	-6.88	2.60	19.59	29.87	-10.28
	5755	151	AVG	242	61	121.9/143.4 (MCS11)	19.78	30.00	-10.22	1.20	20.98	-	-
			AVG	242	62	121.9/143.4 (MCS11)	19.74	30.00	-10.26	1.20	20.94	-	-
	5795	159	AVG	242	61	121.9/143.4 (MCS11)	20.00	30.00	-10.00	1.20	21.20	-	-
			AVG	242	62	121.9/143.4 (MCS11)	19.95	30.00	-10.05	1.20	21.15	-	-

Table 7-28. ISED Ant1 40MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially Loaded RU's)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	242	61	121.9/143.4 (MCS11)	14.82	-	-	3.30	18.12	22.76	-4.64
			AVG	242	62	121.9/143.4 (MCS11)	14.76	-	-	3.30	18.06	22.76	-4.70
	5290	58	AVG	242	61	121.9/143.4 (MCS11)	17.34	23.90	-6.56	3.40	20.74	29.90	-9.16
			AVG	242	62	121.9/143.4 (MCS11)	17.13	23.90	-6.77	3.40	20.53	29.90	-9.37
	5530	106	AVG	242	61	121.9/143.4 (MCS11)	14.51	23.87	-9.36	2.60	17.11	29.87	-12.76
			AVG	242	62	121.9/143.4 (MCS11)	14.89	23.87	-8.98	2.60	17.49	29.87	-12.38
	5775	155	AVG	242	61	121.9/143.4 (MCS11)	19.57	30.00	-10.43	1.20	20.77	-	-
			AVG	242	62	121.9/143.4 (MCS11)	19.68	30.00	-10.32	1.20	20.88	-	-

Table 7-29. ISED Ant1 80MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially Loaded RU's)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 38 of 150

7.4.7 FCC Ant1 Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	242	61	121.9/143.4 (MCS11)	15.71	23.98	-8.27
	5200	40	AVG	242	61	121.9/143.4 (MCS11)	19.11	23.98	-4.87
	5240	48	AVG	242	61	121.9/143.4 (MCS11)	19.36	23.98	-4.62
	5260	52	AVG	242	61	121.9/143.4 (MCS11)	19.25	23.90	-4.64
	5300	60	AVG	242	61	121.9/143.4 (MCS11)	19.32	23.90	-4.57
	5320	64	AVG	242	61	121.9/143.4 (MCS11)	17.11	23.90	-6.79
	5500	100	AVG	242	61	121.9/143.4 (MCS11)	14.99	23.87	-8.88
	5580	116	AVG	242	61	121.9/143.4 (MCS11)	19.15	23.87	-4.73
	5720	144	AVG	242	61	121.9/143.4 (MCS11)	19.43	23.87	-4.45
	5745	149	AVG	242	61	121.9/143.4 (MCS11)	19.74	30.00	-10.26
	5785	157	AVG	242	61	121.9/143.4 (MCS11)	19.76	30.00	-10.24
	5825	165	AVG	242	61	121.9/143.4 (MCS11)	19.51	30.00	-10.49

Table 7-30. FCC Ant1 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	484	65	243.8/286.8 (MCS11)	12.43	23.98	-11.55
	5230	46	AVG	484	65	243.8/286.8 (MCS11)	19.09	23.98	-4.89
	5270	54	AVG	484	65	243.8/286.8 (MCS11)	19.79	23.90	-4.11
	5310	62	AVG	484	65	243.8/286.8 (MCS11)	14.10	23.90	-9.80
	5510	102	AVG	484	65	243.8/286.8 (MCS11)	12.56	23.87	-11.31
	5550	110	AVG	484	65	243.8/286.8 (MCS11)	19.95	23.87	-3.93
	5590	118	AVG	484	65	243.8/286.8 (MCS11)	19.54	23.87	-4.33
	5670	134	AVG	484	65	243.8/286.8 (MCS11)	15.73	23.87	-8.14
	5710	142	AVG	484	65	243.8/286.8 (MCS11)	19.71	23.87	-4.16
	5755	151	AVG	484	65	243.8/286.8 (MCS11)	19.76	30.00	-10.24
	5795	159	AVG	484	65	243.8/286.8 (MCS11)	19.88	30.00	-10.13

Table 7-31. FCC Ant1 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	996	67	510.4/600.5 (MCS11)	11.49	23.98	-12.49
	5290	58	AVG	996	67	510.4/600.5 (MCS11)	10.79	23.90	-13.11
	5530	106	AVG	996	67	510.4/600.5 (MCS11)	12.17	23.87	-11.70
	5690	138	AVG	996	67	510.4/600.5 (MCS11)	19.66	23.87	-4.21
	5775	155	AVG	996	67	510.4/600.5 (MCS11)	17.25	30.00	-12.75

Table 7-32. FCC Ant1 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 39 of 150

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7.4.8 ISED Ant1 Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	242	61	121.9/143.4 (MCS11)	14.82	-	-	3.30	18.12	22.76	-4.65
	5200	40	AVG	242	61	121.9/143.4 (MCS11)	14.86	-	-	3.30	18.16	22.76	-4.61
	5240	48	AVG	242	61	121.9/143.4 (MCS11)	14.98	-	-	3.30	18.28	22.76	-4.48
	5260	52	AVG	242	61	121.9/143.4 (MCS11)	19.25	23.90	-4.64	3.40	22.65	29.90	-7.24
	5300	60	AVG	242	61	121.9/143.4 (MCS11)	19.32	23.90	-4.57	3.40	22.72	29.90	-7.17
	5320	64	AVG	242	61	121.9/143.4 (MCS11)	17.11	23.90	-6.79	3.40	20.51	29.90	-9.39
	5500	100	AVG	242	61	121.9/143.4 (MCS11)	14.99	23.87	-8.88	2.60	17.59	29.87	-12.28
	5580	116	AVG	242	61	121.9/143.4 (MCS11)	19.15	23.87	-4.73	2.60	21.75	29.87	-8.13
	5720	144	AVG	242	61	121.9/143.4 (MCS11)	19.43	23.87	-4.45	2.60	22.03	29.87	-7.85
	5745	149	AVG	242	61	121.9/143.4 (MCS11)	19.74	30.00	-10.26	1.20	20.94	-	-
	5785	157	AVG	242	61	121.9/143.4 (MCS11)	19.76	30.00	-10.24	1.20	20.96	-	-
	5825	165	AVG	242	61	121.9/143.4 (MCS11)	19.51	30.00	-10.49	1.20	20.71	-	-

Table 7-33. ISED Ant1 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	484	65	243.8/286.8 (MCS11)	12.14	-	-	3.30	15.44	22.76	-7.32
	5230	46	AVG	484	65	243.8/286.8 (MCS11)	17.39	-	-	3.30	20.69	22.76	-2.07
	5270	54	AVG	484	65	243.8/286.8 (MCS11)	19.79	23.90	-4.11	3.40	23.19	29.90	-6.71
	5310	62	AVG	484	65	243.8/286.8 (MCS11)	14.10	23.90	-9.80	3.40	17.50	29.90	-12.40
	5510	102	AVG	484	65	243.8/286.8 (MCS11)	12.56	23.87	-11.31	2.60	15.16	29.87	-14.71
	5550	110	AVG	484	65	243.8/286.8 (MCS11)	19.95	23.87	-3.93	2.60	22.55	29.87	-7.33
	5670	134	AVG	484	65	243.8/286.8 (MCS11)	15.73	23.87	-8.14	2.60	18.33	29.87	-11.54
	5710	142	AVG	484	65	243.8/286.8 (MCS11)	19.71	23.87	-4.16	2.60	22.31	29.87	-7.56
	5755	151	AVG	484	65	243.8/286.8 (MCS11)	19.76	30.00	-10.24	1.20	20.96	-	-
	5795	159	AVG	484	65	243.8/286.8 (MCS11)	19.88	30.00	-10.13	1.20	21.08	-	-

Table 7-34. ISED Ant1 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	996	67	510.4/600.5 (MCS11)	11.07	-	-	3.30	14.37	22.76	-8.39
	5290	58	AVG	996	67	510.4/600.5 (MCS11)	10.79	23.90	-13.11	3.40	14.19	29.90	-15.71
	5530	106	AVG	996	67	510.4/600.5 (MCS11)	12.17	23.87	-11.70	2.60	14.77	29.87	-15.10
	5690	138	AVG	996	67	510.4/600.5 (MCS11)	19.66	23.87	-4.21	2.60	22.26	29.87	-7.61
	5775	155	AVG	996	67	510.4/600.5 (MCS11)	17.25	30.00	-12.75	1.20	18.45	-	-

Table 7-35. ISED Ant1 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 40 of 150

7.4.9 FCC Ant2 Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	26	0	12.5/14.7 (MCS11)	10.55	23.98	-13.43
			AVG	26	4	12.5/14.7 (MCS11)	10.55	23.98	-13.43
			AVG	26	8	12.5/14.7 (MCS11)	10.70	23.98	-13.28
	5200	40	AVG	26	0	12.5/14.7 (MCS11)	10.73	23.98	-13.25
			AVG	26	4	12.5/14.7 (MCS11)	10.64	23.98	-13.34
			AVG	26	8	12.5/14.7 (MCS11)	10.70	23.98	-13.28
	5240	48	AVG	26	0	12.5/14.7 (MCS11)	10.58	23.98	-13.40
			AVG	26	4	12.5/14.7 (MCS11)	10.69	23.98	-13.29
			AVG	26	8	12.5/14.7 (MCS11)	10.89	23.98	-13.09
	5745	149	AVG	26	0	12.5/14.7 (MCS11)	10.86	30.00	-19.14
			AVG	26	4	12.5/14.7 (MCS11)	10.90	30.00	-19.10
			AVG	26	8	12.5/14.7 (MCS11)	10.62	30.00	-19.38
	5785	157	AVG	26	0	12.5/14.7 (MCS11)	10.68	30.00	-19.32
			AVG	26	4	12.5/14.7 (MCS11)	10.87	30.00	-19.13
			AVG	26	8	12.5/14.7 (MCS11)	10.56	30.00	-19.44
	5825	165	AVG	26	0	12.5/14.7 (MCS11)	10.72	30.00	-19.28
			AVG	26	4	12.5/14.7 (MCS11)	10.63	30.00	-19.37
			AVG	26	8	12.5/14.7 (MCS11)	10.55	30.00	-19.45

Table 7-36. FCC Ant2 20MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	26	0	12.5/14.7 (MCS11)	10.80	23.98	-13.18
			AVG	26	8	12.5/14.7 (MCS11)	10.86	23.98	-13.12
			AVG	26	17	12.5/14.7 (MCS11)	10.60	23.98	-13.38
	5230	46	AVG	26	0	12.5/14.7 (MCS11)	10.93	23.98	-13.05
			AVG	26	8	12.5/14.7 (MCS11)	10.94	23.98	-13.04
			AVG	26	17	12.5/14.7 (MCS11)	10.56	23.98	-13.42
	5755	151	AVG	26	0	12.5/14.7 (MCS11)	10.68	30.00	-19.32
			AVG	26	8	12.5/14.7 (MCS11)	10.82	30.00	-19.18
			AVG	26	17	12.5/14.7 (MCS11)	10.73	30.00	-19.27
	5795	159	AVG	26	0	12.5/14.7 (MCS11)	10.68	30.00	-19.32
			AVG	26	8	12.5/14.7 (MCS11)	10.52	30.00	-19.48
			AVG	26	17	12.5/14.7 (MCS11)	10.98	30.00	-19.02

Table 7-37. FCC Ant2 40MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	26	0	12.5/14.7 (MCS11)	8.65	23.98	-15.33
			AVG	26	18	12.5/14.7 (MCS11)	8.58	23.98	-15.40
			AVG	26	36	12.5/14.7 (MCS11)	9.00	23.98	-14.98
	5775	155	AVG	26	0	12.5/14.7 (MCS11)	10.83	30.00	-19.17
			AVG	26	18	12.5/14.7 (MCS11)	10.67	30.00	-19.33
			AVG	26	36	12.5/14.7 (MCS11)	10.92	30.00	-19.08

Table 7-38. FCC Ant2 80MHz BW (UNII) Maximum Conducted Output Power (RU26)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 41 of 150

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7.4.10 ISED Ant2 Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	26	0	12.5/14.7 (MCS11)	6.84	-	-	2.50	9.34	22.76	-13.43
			AVG	26	4	12.5/14.7 (MCS11)	6.78	-	-	2.50	9.28	22.76	-13.48
			AVG	26	8	12.5/14.7 (MCS11)	6.81	-	-	2.50	9.31	22.76	-13.45
	5200	40	AVG	26	0	12.5/14.7 (MCS11)	6.88	-	-	2.50	9.38	22.76	-13.39
			AVG	26	4	12.5/14.7 (MCS11)	6.95	-	-	2.50	9.45	22.76	-13.32
			AVG	26	8	12.5/14.7 (MCS11)	6.64	-	-	2.50	9.14	22.76	-13.63
	5240	48	AVG	26	0	12.5/14.7 (MCS11)	6.98	-	-	2.50	9.48	22.76	-13.28
			AVG	26	4	12.5/14.7 (MCS11)	6.93	-	-	2.50	9.43	22.76	-13.34
			AVG	26	8	12.5/14.7 (MCS11)	6.84	-	-	2.50	9.34	22.76	-13.43
	5745	149	AVG	26	0	12.5/14.7 (MCS11)	10.86	30.00	-19.14	1.00	11.86	-	-
			AVG	26	4	12.5/14.7 (MCS11)	10.90	30.00	-19.10	1.00	11.90	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.62	30.00	-19.38	1.00	11.62	-	-
	5785	157	AVG	26	0	12.5/14.7 (MCS11)	10.68	30.00	-19.32	1.00	11.68	-	-
			AVG	26	4	12.5/14.7 (MCS11)	10.87	30.00	-19.13	1.00	11.87	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.56	30.00	-19.44	1.00	11.56	-	-
	5825	165	AVG	26	0	12.5/14.7 (MCS11)	10.72	30.00	-19.28	1.00	11.72	-	-
			AVG	26	4	12.5/14.7 (MCS11)	10.63	30.00	-19.37	1.00	11.63	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.55	30.00	-19.45	1.00	11.55	-	-

Table 7-39. ISED Ant2 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	26	0	12.5/14.7 (MCS11)	6.90	-	-	2.50	9.40	22.76	-13.37
			AVG	26	8	12.5/14.7 (MCS11)	6.58	-	-	2.50	9.08	22.76	-13.69
			AVG	26	17	12.5/14.7 (MCS11)	7.00	-	-	2.50	9.50	22.76	-13.27
	5230	46	AVG	26	0	12.5/14.7 (MCS11)	6.91	-	-	2.50	9.41	22.76	-13.35
			AVG	26	8	12.5/14.7 (MCS11)	6.99	-	-	2.50	9.49	22.76	-13.28
			AVG	26	17	12.5/14.7 (MCS11)	6.93	-	-	2.50	9.43	22.76	-13.34
	5755	151	AVG	26	0	12.5/14.7 (MCS11)	10.68	30.00	-19.32	1.00	11.68	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.82	30.00	-19.18	1.00	11.82	-	-
			AVG	26	17	12.5/14.7 (MCS11)	10.73	30.00	-19.27	1.00	11.73	-	-
	5795	159	AVG	26	0	12.5/14.7 (MCS11)	10.68	30.00	-19.32	1.00	11.68	-	-
			AVG	26	8	12.5/14.7 (MCS11)	10.52	30.00	-19.48	1.00	11.52	-	-
			AVG	26	17	12.5/14.7 (MCS11)	10.98	30.00	-19.02	1.00	11.98	-	-

Table 7-40. ISED Ant2 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	26	0	12.5/14.7 (MCS11)	6.80	-	-	2.50	9.30	22.76	-13.47
			AVG	26	18	12.5/14.7 (MCS11)	6.72	-	-	2.50	9.22	22.76	-13.55
			AVG	26	36	12.5/14.7 (MCS11)	6.65	-	-	2.50	9.15	22.76	-13.61
	5775	155	AVG	26	0	12.5/14.7 (MCS11)	10.83	30.00	-19.17	1.00	11.83	-	-
			AVG	26	18	12.5/14.7 (MCS11)	10.67	30.00	-19.33	1.00	11.67	-	-
			AVG	26	36	12.5/14.7 (MCS11)	10.92	30.00	-19.08	1.00	11.92	-	-

Table 7-41. ISED Ant2 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4.11 FCC Ant2 Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5260	52	AVG	52	37	25/29.4 (MCS11)	13.98	23.90	-9.91
			AVG	52	39	25/29.4 (MCS11)	13.71	23.90	-10.19
			AVG	52	40	25/29.4 (MCS11)	13.60	23.90	-10.29
	5300	60	AVG	52	37	25/29.4 (MCS11)	13.95	23.90	-9.95
			AVG	52	39	25/29.4 (MCS11)	13.58	23.90	-10.32
			AVG	52	40	25/29.4 (MCS11)	13.78	23.90	-10.12
	5320	64	AVG	52	37	25/29.4 (MCS11)	13.67	23.90	-10.22
			AVG	52	39	25/29.4 (MCS11)	13.95	23.90	-9.95
			AVG	52	40	25/29.4 (MCS11)	13.60	23.90	-10.30
	5500	100	AVG	52	37	25/29.4 (MCS11)	13.72	23.87	-10.15
			AVG	52	39	25/29.4 (MCS11)	13.68	23.87	-10.19
			AVG	52	40	25/29.4 (MCS11)	13.65	23.87	-10.22
	5580	116	AVG	52	37	25/29.4 (MCS11)	13.93	23.87	-9.94
			AVG	52	39	25/29.4 (MCS11)	13.83	23.87	-10.04
			AVG	52	40	25/29.4 (MCS11)	13.64	23.87	-10.23
	5720	144	AVG	52	37	25/29.4 (MCS11)	13.50	23.87	-10.37
			AVG	52	39	25/29.4 (MCS11)	13.85	23.87	-10.02
			AVG	52	40	25/29.4 (MCS11)	13.66	23.87	-10.21

Table 7-42. FCC Ant2 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5270	54	AVG	52	37	25/29.4 (MCS11)	13.77	23.90	-10.13
			AVG	52	40	25/29.4 (MCS11)	13.70	23.90	-10.19
			AVG	52	44	25/29.4 (MCS11)	13.62	23.90	-10.27
	5310	62	AVG	52	37	25/29.4 (MCS11)	11.65	23.90	-12.25
			AVG	52	40	25/29.4 (MCS11)	11.67	23.90	-12.23
			AVG	52	44	25/29.4 (MCS11)	11.64	23.90	-12.26
	5510	102	AVG	52	37	25/29.4 (MCS11)	11.66	23.87	-12.22
			AVG	52	40	25/29.4 (MCS11)	11.85	23.87	-12.03
			AVG	52	44	25/29.4 (MCS11)	11.80	23.87	-12.07
	5550	110	AVG	52	37	25/29.4 (MCS11)	13.76	23.87	-10.11
			AVG	52	40	25/29.4 (MCS11)	13.85	23.87	-10.02
			AVG	52	44	25/29.4 (MCS11)	13.56	23.87	-10.31
	5590	118	AVG	52	37	25/29.4 (MCS11)	13.62	23.87	-10.26
			AVG	52	40	25/29.4 (MCS11)	13.87	23.87	-10.01
			AVG	52	44	25/29.4 (MCS11)	13.61	23.87	-10.26
	5670	134	AVG	52	37	25/29.4 (MCS11)	13.72	23.87	-10.15
			AVG	52	40	25/29.4 (MCS11)	13.97	23.87	-9.91
			AVG	52	44	25/29.4 (MCS11)	13.58	23.87	-10.29
	5710	142	AVG	52	37	25/29.4 (MCS11)	13.82	23.87	-10.05
			AVG	52	40	25/29.4 (MCS11)	13.84	23.87	-10.03
			AVG	52	44	25/29.4 (MCS11)	13.77	23.87	-10.10

Table 7-43. FCC Ant2 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5290	58	AVG	52	37	25/29.4 (MCS11)	11.75	23.90	-12.15
			AVG	52	44	25/29.4 (MCS11)	11.60	23.90	-12.30
			AVG	52	52	25/29.4 (MCS11)	11.63	23.90	-12.27
	5530	106	AVG	52	37	25/29.4 (MCS11)	11.63	23.87	-12.24
			AVG	52	44	25/29.4 (MCS11)	11.94	23.87	-11.93
			AVG	52	52	25/29.4 (MCS11)	11.94	23.87	-11.93
	5690	138	AVG	52	37	25/29.4 (MCS11)	13.64	23.87	-10.23
			AVG	52	44	25/29.4 (MCS11)	13.58	23.87	-10.29
			AVG	52	52	25/29.4 (MCS11)	13.64	23.87	-10.23

Table 7-44. FCC Ant2 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 44 of 150

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7.4.12 ISED Ant2 Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	52	37	25/29.4 (MCS11)	13.98	23.90	-9.91	2.30	16.28	29.90	-13.61
			AVG	52	39	25/29.4 (MCS11)	13.71	23.90	-10.19	2.30	16.01	29.90	-13.89
			AVG	52	40	25/29.4 (MCS11)	13.60	23.90	-10.29	2.30	15.90	29.90	-13.99
	5300	60	AVG	52	37	25/29.4 (MCS11)	13.95	23.90	-9.95	2.30	16.25	29.90	-13.65
			AVG	52	39	25/29.4 (MCS11)	13.58	23.90	-10.32	2.30	15.88	29.90	-14.02
			AVG	52	40	25/29.4 (MCS11)	13.78	23.90	-10.12	2.30	16.08	29.90	-13.82
	5320	64	AVG	52	37	25/29.4 (MCS11)	13.67	23.90	-10.22	2.30	15.97	29.90	-13.92
			AVG	52	39	25/29.4 (MCS11)	13.95	23.90	-9.95	2.30	16.25	29.90	-13.65
			AVG	52	40	25/29.4 (MCS11)	13.60	23.90	-10.30	2.30	15.90	29.90	-14.00
	5500	100	AVG	52	37	25/29.4 (MCS11)	13.72	23.87	-10.15	1.00	14.72	29.87	-15.15
			AVG	52	39	25/29.4 (MCS11)	13.68	23.87	-10.19	1.00	14.68	29.87	-15.19
			AVG	52	40	25/29.4 (MCS11)	13.65	23.87	-10.22	1.00	14.65	29.87	-15.22
	5580	116	AVG	52	37	25/29.4 (MCS11)	13.93	23.87	-9.94	1.00	14.93	29.87	-14.94
			AVG	52	39	25/29.4 (MCS11)	13.83	23.87	-10.04	1.00	14.83	29.87	-15.04
			AVG	52	40	25/29.4 (MCS11)	13.64	23.87	-10.23	1.00	14.64	29.87	-15.23
	5720	144	AVG	52	37	25/29.4 (MCS11)	13.50	23.87	-10.37	1.00	14.50	29.87	-15.37
			AVG	52	39	25/29.4 (MCS11)	13.85	23.87	-10.02	1.00	14.85	29.87	-15.02
			AVG	52	40	25/29.4 (MCS11)	13.66	23.87	-10.21	1.00	14.66	29.87	-15.21

Table 7-45. ISED Ant2 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	52	37	25/29.4 (MCS11)	13.77	23.90	-10.13	2.30	16.07	29.90	-13.83
			AVG	52	40	25/29.4 (MCS11)	13.70	23.90	-10.19	2.30	16.00	29.90	-13.89
			AVG	52	44	25/29.4 (MCS11)	13.62	23.90	-10.27	2.30	15.92	29.90	-13.97
	5310	62	AVG	52	37	25/29.4 (MCS11)	11.65	23.90	-12.25	2.30	13.95	29.90	-15.95
			AVG	52	40	25/29.4 (MCS11)	11.67	23.90	-12.23	2.30	13.97	29.90	-15.93
			AVG	52	44	25/29.4 (MCS11)	11.64	23.90	-12.26	2.30	13.94	29.90	-15.96
	5510	102	AVG	52	37	25/29.4 (MCS11)	11.66	23.87	-12.22	1.00	12.66	29.87	-17.22
			AVG	52	40	25/29.4 (MCS11)	11.85	23.87	-12.03	1.00	12.85	29.87	-17.03
			AVG	52	44	25/29.4 (MCS11)	11.80	23.87	-12.07	1.00	12.80	29.87	-17.07
	5550	110	AVG	52	37	25/29.4 (MCS11)	13.76	23.87	-10.11	1.00	14.76	29.87	-15.11
			AVG	52	40	25/29.4 (MCS11)	13.85	23.87	-10.02	1.00	14.85	29.87	-15.02
			AVG	52	44	25/29.4 (MCS11)	13.56	23.87	-10.31	1.00	14.56	29.87	-15.31
	5670	134	AVG	52	37	25/29.4 (MCS11)	13.72	23.87	-10.15	1.00	14.72	29.87	-15.15
			AVG	52	40	25/29.4 (MCS11)	13.97	23.87	-9.91	1.00	14.97	29.87	-14.91
			AVG	52	44	25/29.4 (MCS11)	13.58	23.87	-10.29	1.00	14.58	29.87	-15.29
	5710	142	AVG	52	37	25/29.4 (MCS11)	13.82	23.87	-10.05	1.00	14.82	29.87	-15.05
			AVG	52	40	25/29.4 (MCS11)	13.84	23.87	-10.03	1.00	14.84	29.87	-15.03
			AVG	52	44	25/29.4 (MCS11)	13.77	23.87	-10.10	1.00	14.77	29.87	-15.10

Table 7-46. ISED Ant2 40MHz BW (UNII) Maximum Conducted Output Power (RU52)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	52	37	25/29.4 (MCS11)	11.75	23.90	-12.15	2.30	14.05	29.90	-15.85
			AVG	52	44	25/29.4 (MCS11)	11.60	23.90	-12.30	2.30	13.90	29.90	-16.00
			AVG	52	52	25/29.4 (MCS11)	11.63	23.90	-12.27	2.30	13.93	29.90	-15.97
	5530	106	AVG	52	37	25/29.4 (MCS11)	11.63	23.87	-12.24	1.00	12.63	29.87	-17.24
			AVG	52	44	25/29.4 (MCS11)	11.94	23.87	-11.93	1.00	12.94	29.87	-16.93
			AVG	52	52	25/29.4 (MCS11)	11.94	23.87	-11.93	1.00	12.94	29.87	-16.93
	5690	138	AVG	52	37	25/29.4 (MCS11)	13.64	23.87	-10.23	1.00	14.64	29.87	-15.23
			AVG	52	44	25/29.4 (MCS11)	13.58	23.87	-10.29	1.00	14.58	29.87	-15.29
			AVG	52	52	25/29.4 (MCS11)	13.64	23.87	-10.24	1.00	14.64	29.87	-15.24

Table 7-47. ISED Ant2 80MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.13 FCC Ant2 Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	106	53	53.1/62.5 (MCS11)	16.53	23.98	-7.45
			AVG	106	54	53.1/62.5 (MCS11)	16.66	23.98	-7.32
	5200	40	AVG	106	53	53.1/62.5 (MCS11)	16.70	23.98	-7.28
			AVG	106	54	53.1/62.5 (MCS11)	16.80	23.98	-7.18
	5240	48	AVG	106	53	53.1/62.5 (MCS11)	16.64	23.98	-7.34
			AVG	106	54	53.1/62.5 (MCS11)	16.66	23.98	-7.32
	5260	52	AVG	106	53	53.1/62.5 (MCS11)	16.95	23.90	-6.95
			AVG	106	54	53.1/62.5 (MCS11)	16.95	23.90	-6.95
	5300	60	AVG	106	53	53.1/62.5 (MCS11)	16.58	23.90	-7.31
			AVG	106	54	53.1/62.5 (MCS11)	16.58	23.90	-7.32
	5320	64	AVG	106	53	53.1/62.5 (MCS11)	16.72	23.90	-7.17
			AVG	106	54	53.1/62.5 (MCS11)	16.65	23.90	-7.25
	5500	100	AVG	106	53	53.1/62.5 (MCS11)	16.86	23.87	-7.02
			AVG	106	54	53.1/62.5 (MCS11)	16.78	23.87	-7.10
	5580	116	AVG	106	53	53.1/62.5 (MCS11)	16.68	23.87	-7.19
			AVG	106	54	53.1/62.5 (MCS11)	16.95	23.87	-6.92
	5720	144	AVG	106	53	53.1/62.5 (MCS11)	16.89	23.87	-6.98
			AVG	106	54	53.1/62.5 (MCS11)	16.66	23.87	-7.21
	5745	149	AVG	106	53	53.1/62.5 (MCS11)	16.88	30.00	-13.12
			AVG	106	54	53.1/62.5 (MCS11)	16.53	30.00	-13.48
	5785	157	AVG	106	53	53.1/62.5 (MCS11)	16.86	30.00	-13.14
			AVG	106	54	53.1/62.5 (MCS11)	16.93	30.00	-13.07
	5825	165	AVG	106	53	53.1/62.5 (MCS11)	16.83	30.00	-13.17
			AVG	106	54	53.1/62.5 (MCS11)	16.96	30.00	-13.05

Table 7-48. FCC Ant2 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	106	53	53.1/62.5 (MCS11)	16.54	23.98	-7.44
			AVG	106	54	53.1/62.5 (MCS11)	16.56	23.98	-7.42
			AVG	106	56	53.1/62.5 (MCS11)	16.82	23.98	-7.16
	5230	46	AVG	242	61	121.9/143.4 (MCS11)	19.37	23.98	-4.61
			AVG	242	62	121.9/143.4 (MCS11)	19.05	23.98	-4.93
	5270	54	AVG	242	61	121.9/143.4 (MCS11)	19.33	23.90	-4.56
			AVG	242	62	121.9/143.4 (MCS11)	19.16	23.90	-4.73
	5310	62	AVG	242	61	121.9/143.4 (MCS11)	17.20	23.90	-6.69
			AVG	242	62	121.9/143.4 (MCS11)	17.33	23.90	-6.56
	5510	102	AVG	242	61	121.9/143.4 (MCS11)	14.96	23.87	-8.91
			AVG	242	62	121.9/143.4 (MCS11)	14.97	23.87	-8.91
	5550	110	AVG	242	61	121.9/143.4 (MCS11)	19.44	23.87	-4.43
			AVG	242	62	121.9/143.4 (MCS11)	19.11	23.87	-4.76
	5590	118	AVG	242	61	121.9/143.4 (MCS11)	19.26	23.87	-4.61
			AVG	242	62	121.9/143.4 (MCS11)	19.05	23.87	-4.83
	5670	134	AVG	242	61	121.9/143.4 (MCS11)	19.27	23.87	-4.60
			AVG	242	62	121.9/143.4 (MCS11)	19.32	23.87	-4.55
	5710	142	AVG	106	53	53.1/62.5 (MCS11)	16.63	23.87	-7.24
			AVG	106	54	53.1/62.5 (MCS11)	16.53	23.87	-7.34
			AVG	106	56	53.1/62.5 (MCS11)	16.69	23.87	-7.18
	5755	151	AVG	242	61	121.9/143.4 (MCS11)	19.85	30.00	-10.15
			AVG	242	62	121.9/143.4 (MCS11)	19.93	30.00	-10.07
	5795	159	AVG	242	61	121.9/143.4 (MCS11)	19.62	30.00	-10.38
			AVG	242	62	121.9/143.4 (MCS11)	19.75	30.00	-10.25

Table 7-49. FCC Ant2 40MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	242	61	121.9/143.4 (MCS11)	15.67	23.98	-8.31
			AVG	242	62	121.9/143.4 (MCS11)	15.61	23.98	-8.37
	5290	58	AVG	242	61	121.9/143.4 (MCS11)	17.26	23.90	-6.64
			AVG	242	62	121.9/143.4 (MCS11)	17.25	23.90	-6.65
	5530	106	AVG	242	61	121.9/143.4 (MCS11)	14.98	23.87	-8.89
			AVG	242	62	121.9/143.4 (MCS11)	14.77	23.87	-9.10
	5775	155	AVG	242	61	121.9/143.4 (MCS11)	19.97	30.00	-10.04
			AVG	242	62	121.9/143.4 (MCS11)	19.53	30.00	-10.47

Table 7-50. FCC Ant2 80MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.14 ISED Ant2 Conducted Output Power Measurements (Highest Power Among Partially Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	106	53	53.1/62.5 (MCS11)	12.97	-	-	2.50	15.47	22.76	-7.29
			AVG	106	54	53.1/62.5 (MCS11)	12.68	-	-	2.50	15.18	22.76	-7.59
	5200	40	AVG	106	53	53.1/62.5 (MCS11)	12.67	-	-	2.50	15.17	22.76	-7.59
			AVG	106	54	53.1/62.5 (MCS11)	12.78	-	-	2.50	15.28	22.76	-7.48
	5240	48	AVG	106	53	53.1/62.5 (MCS11)	12.55	-	-	2.50	15.05	22.76	-7.71
			AVG	106	54	53.1/62.5 (MCS11)	12.58	-	-	2.50	15.08	22.76	-7.69
	5260	52	AVG	106	53	53.1/62.5 (MCS11)	16.95	23.90	-6.95	2.30	19.25	29.90	-10.65
			AVG	106	54	53.1/62.5 (MCS11)	16.95	23.90	-6.95	2.30	19.25	29.90	-10.65
	5300	60	AVG	106	53	53.1/62.5 (MCS11)	16.58	23.90	-7.31	2.30	18.88	29.90	-11.01
			AVG	106	54	53.1/62.5 (MCS11)	16.58	23.90	-7.32	2.30	18.88	29.90	-11.02
	5320	64	AVG	106	53	53.1/62.5 (MCS11)	16.72	23.90	-7.17	2.30	19.02	29.90	-10.87
			AVG	106	54	53.1/62.5 (MCS11)	16.65	23.90	-7.25	2.30	18.95	29.90	-10.95
	5500	100	AVG	106	53	53.1/62.5 (MCS11)	16.86	23.87	-7.02	1.00	17.86	29.87	-12.02
			AVG	106	54	53.1/62.5 (MCS11)	16.78	23.87	-7.10	1.00	17.78	29.87	-12.10
	5580	116	AVG	106	53	53.1/62.5 (MCS11)	16.68	23.87	-7.19	1.00	17.68	29.87	-12.19
			AVG	106	54	53.1/62.5 (MCS11)	16.95	23.87	-6.92	1.00	17.95	29.87	-11.92
	5720	144	AVG	106	53	53.1/62.5 (MCS11)	16.89	23.87	-6.98	1.00	17.89	29.87	-11.98
			AVG	106	54	53.1/62.5 (MCS11)	16.66	23.87	-7.21	1.00	17.66	29.87	-12.21
	5745	149	AVG	106	53	53.1/62.5 (MCS11)	16.88	30.00	-13.12	1.00	17.88	-	-
			AVG	106	54	53.1/62.5 (MCS11)	16.53	30.00	-13.48	1.00	17.53	-	-
	5785	157	AVG	106	53	53.1/62.5 (MCS11)	16.86	30.00	-13.14	1.00	17.86	-	-
			AVG	106	54	53.1/62.5 (MCS11)	16.93	30.00	-13.07	1.00	17.93	-	-
	5825	165	AVG	106	53	53.1/62.5 (MCS11)	16.83	30.00	-13.17	1.00	17.83	-	-
			AVG	106	54	53.1/62.5 (MCS11)	16.96	30.00	-13.05	1.00	17.96	-	-

Table 7-51. ISED Ant2 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially Loaded RU's)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	242	61	121.9/143.4 (MCS11)	14.86	-	-	2.50	17.36	22.76	-5.40
			AVG	242	62	121.9/143.4 (MCS11)	14.78	-	-	2.50	17.28	22.76	-5.49
	5230	46	AVG	242	61	121.9/143.4 (MCS11)	14.62	-	-	2.50	17.12	22.76	-5.64
			AVG	242	62	121.9/143.4 (MCS11)	14.72	-	-	2.50	17.22	22.76	-5.54
	5270	54	AVG	242	61	121.9/143.4 (MCS11)	19.33	23.90	-4.56	2.30	21.63	29.90	-8.26
			AVG	242	62	121.9/143.4 (MCS11)	19.16	23.90	-4.73	2.30	21.46	29.90	-8.43
	5310	62	AVG	242	61	121.9/143.4 (MCS11)	17.20	23.90	-6.69	2.30	19.50	29.90	-10.39
			AVG	242	62	121.9/143.4 (MCS11)	17.33	23.90	-6.56	2.30	19.63	29.90	-10.26
	5510	102	AVG	242	61	121.9/143.4 (MCS11)	14.96	23.87	-8.91	1.00	15.96	29.87	-13.91
			AVG	242	62	121.9/143.4 (MCS11)	14.97	23.87	-8.91	1.00	15.97	29.87	-13.91
	5550	110	AVG	242	61	121.9/143.4 (MCS11)	19.44	23.87	-4.43	1.00	20.44	29.87	-9.43
			AVG	242	62	121.9/143.4 (MCS11)	19.11	23.87	-4.76	1.00	20.11	29.87	-9.76
	5670	134	AVG	242	61	121.9/143.4 (MCS11)	19.27	23.87	-4.60	1.00	20.27	29.87	-9.60
			AVG	242	62	121.9/143.4 (MCS11)	19.32	23.87	-4.55	1.00	20.32	29.87	-9.55
	5710	142	AVG	106	53	53.1/62.5 (MCS11)	16.63	23.87	-7.24	1.00	17.63	29.87	-12.24
			AVG	106	54	53.1/62.5 (MCS11)	16.53	23.87	-7.34	1.00	17.53	29.87	-12.34
	5755	151	AVG	242	61	121.9/143.4 (MCS11)	19.85	30.00	-10.15	1.00	20.85	-	-
			AVG	242	62	121.9/143.4 (MCS11)	19.93	30.00	-10.07	1.00	20.93	-	-
	5795	159	AVG	242	61	121.9/143.4 (MCS11)	19.62	30.00	-10.38	1.00	20.62	-	-
			AVG	242	62	121.9/143.4 (MCS11)	19.75	30.00	-10.25	1.00	20.75	-	-

Table 7-52. ISED Ant2 40MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially Loaded RU's)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	242	61	121.9/143.4 (MCS11)	14.93	-	-	2.50	17.43	22.76	-5.33
			AVG	242	62	121.9/143.4 (MCS11)	14.81	-	-	2.50	17.31	22.76	-5.45
	5290	58	AVG	242	61	121.9/143.4 (MCS11)	17.26	23.90	-6.64	2.30	19.56	29.90	-10.34
			AVG	242	62	121.9/143.4 (MCS11)	17.25	23.90	-6.65	2.30	19.55	29.90	-10.35
	5530	106	AVG	242	61	121.9/143.4 (MCS11)	14.98	23.87	-8.89	1.00	15.98	29.87	-13.89
			AVG	242	62	121.9/143.4 (MCS11)	14.77	23.87	-9.10	1.00	15.77	29.87	-14.10
	5775	155	AVG	242	61	121.9/143.4 (MCS11)	19.97	30.00	-10.04	1.00	20.97	-	-
			AVG	242	62	121.9/143.4 (MCS11)	19.53	30.00	-10.47	1.00	20.53	-	-

Table 7-53. ISED Ant2 80MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially Loaded RU's)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 48 of 150

7.4.15 FCC Ant2 Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	242	61	121.9/143.4 (MCS11)	15.99	23.98	-7.99
	5200	40	AVG	242	61	121.9/143.4 (MCS11)	19.13	23.98	-4.85
	5240	48	AVG	242	61	121.9/143.4 (MCS11)	19.15	23.98	-4.83
	5260	52	AVG	242	61	121.9/143.4 (MCS11)	19.23	23.90	-4.66
	5300	60	AVG	242	61	121.9/143.4 (MCS11)	19.41	23.90	-4.49
	5320	64	AVG	242	61	121.9/143.4 (MCS11)	17.19	23.90	-6.70
	5500	100	AVG	242	61	121.9/143.4 (MCS11)	14.95	23.87	-8.92
	5580	116	AVG	242	61	121.9/143.4 (MCS11)	19.15	23.87	-4.72
	5720	144	AVG	242	61	121.9/143.4 (MCS11)	19.33	23.87	-4.54
	5745	149	AVG	242	61	121.9/143.4 (MCS11)	19.91	30.00	-10.09
	5785	157	AVG	242	61	121.9/143.4 (MCS11)	19.89	30.00	-10.11
	5825	165	AVG	242	61	121.9/143.4 (MCS11)	19.97	30.00	-10.03

Table 7-54. FCC Ant2 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	484	65	243.8/286.8 (MCS11)	12.15	23.98	-11.83
	5230	46	AVG	484	65	243.8/286.8 (MCS11)	19.17	23.98	-4.81
	5270	54	AVG	484	65	243.8/286.8 (MCS11)	19.99	23.90	-3.91
	5310	62	AVG	484	65	243.8/286.8 (MCS11)	14.49	23.90	-9.40
	5510	102	AVG	484	65	243.8/286.8 (MCS11)	12.78	23.87	-11.10
	5550	110	AVG	484	65	243.8/286.8 (MCS11)	19.53	23.87	-4.34
	5590	118	AVG	484	65	243.8/286.8 (MCS11)	19.67	23.87	-4.20
	5670	134	AVG	484	65	243.8/286.8 (MCS11)	15.57	23.87	-8.30
	5710	142	AVG	484	65	243.8/286.8 (MCS11)	19.95	23.87	-3.92
	5755	151	AVG	484	65	243.8/286.8 (MCS11)	19.63	30.00	-10.37
	5795	159	AVG	484	65	243.8/286.8 (MCS11)	19.80	30.00	-10.20

Table 7-55. FCC Ant2 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	996	67	510.4/600.5 (MCS11)	11.39	23.98	-12.59
	5290	58	AVG	996	67	510.4/600.5 (MCS11)	11.00	23.90	-12.90
	5530	106	AVG	996	67	510.4/600.5 (MCS11)	12.34	23.87	-11.53
	5690	138	AVG	996	67	510.4/600.5 (MCS11)	19.53	23.87	-4.35
	5775	155	AVG	996	67	510.4/600.5 (MCS11)	16.96	30.00	-13.04

Table 7-56. FCC Ant2 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 49 of 150

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7.4.16 ISED Ant2 Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	242	61	121.9/143.4 (MCS11)	14.57	-	-	2.50	17.07	22.76	-5.69
	5200	40	AVG	242	61	121.9/143.4 (MCS11)	14.73	-	-	2.50	17.23	22.76	-5.53
	5240	48	AVG	242	61	121.9/143.4 (MCS11)	14.55	-	-	2.50	17.05	22.76	-5.71
	5260	52	AVG	242	61	121.9/143.4 (MCS11)	19.23	23.90	-4.66	2.30	21.53	29.90	-8.36
	5300	60	AVG	242	61	121.9/143.4 (MCS11)	19.41	23.90	-4.49	2.30	21.71	29.90	-8.19
	5320	64	AVG	242	61	121.9/143.4 (MCS11)	17.19	23.90	-6.70	2.30	19.49	29.90	-10.40
	5500	100	AVG	242	61	121.9/143.4 (MCS11)	14.95	23.87	-8.92	1.00	15.95	29.87	-13.92
	5580	116	AVG	242	61	121.9/143.4 (MCS11)	19.15	23.87	-4.72	1.00	20.15	29.87	-9.72
	5720	144	AVG	242	61	121.9/143.4 (MCS11)	19.33	23.87	-4.54	1.00	20.33	29.87	-9.54
	5745	149	AVG	242	61	121.9/143.4 (MCS11)	19.91	30.00	-10.09	1.00	20.91	-	-
	5785	157	AVG	242	61	121.9/143.4 (MCS11)	19.89	30.00	-10.11	1.00	20.89	-	-
	5825	165	AVG	242	61	121.9/143.4 (MCS11)	19.97	30.00	-10.03	1.00	20.97	-	-

Table 7-57. ISED Ant2 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	484	65	243.8/286.8 (MCS11)	12.20	-	-	2.50	14.70	22.76	-8.07
	5230	46	AVG	484	65	243.8/286.8 (MCS11)	17.26	-	-	2.50	19.76	22.76	-3.01
	5270	54	AVG	484	65	243.8/286.8 (MCS11)	19.99	23.90	-3.91	2.30	22.29	29.90	-7.61
	5310	62	AVG	484	65	243.8/286.8 (MCS11)	14.49	23.90	-9.40	2.30	16.79	29.90	-13.10
	5510	102	AVG	484	65	243.8/286.8 (MCS11)	12.78	23.87	-11.10	1.00	13.78	29.87	-16.10
	5550	110	AVG	484	65	243.8/286.8 (MCS11)	19.53	23.87	-4.34	1.00	20.53	29.87	-9.34
	5670	134	AVG	484	65	243.8/286.8 (MCS11)	15.57	23.87	-8.30	1.00	16.57	29.87	-13.30
	5710	142	AVG	484	65	243.8/286.8 (MCS11)	19.95	23.87	-3.92	1.00	20.95	29.87	-8.92
	5755	151	AVG	484	65	243.8/286.8 (MCS11)	19.63	30.00	-10.37	1.00	20.63	-	-
	5795	159	AVG	484	65	243.8/286.8 (MCS11)	19.80	30.00	-10.20	1.00	20.80	-	-

Table 7-58. ISED Ant2 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	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	AVG	996	67	510.4/600.5 (MCS11)	11.36	-	-	2.50	13.86	22.76	-8.91
	5290	58	AVG	996	67	510.4/600.5 (MCS11)	11.00	23.90	-12.90	2.30	13.30	29.90	-16.60
	5530	106	AVG	996	67	510.4/600.5 (MCS11)	12.34	23.87	-11.53	1.00	13.34	29.87	-16.53
	5690	138	AVG	996	67	510.4/600.5 (MCS11)	19.53	23.87	-4.35	1.00	20.53	29.87	-9.35
	5775	155	AVG	996	67	510.4/600.5 (MCS11)	16.96	30.00	-13.04	1.00	17.96	-	-

Table 7-59. ISED Ant2 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 50 of 150

7.4.17 FCC CDD Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
5180	36		CDD	AVG	26	0	25/29.4 (MCS11)	8.44	8.38	11.42	23.98	-12.56
			CDD	AVG	26	4	25/29.4 (MCS11)	8.05	8.12	11.10	23.98	-12.88
			CDD	AVG	26	8	25/29.4 (MCS11)	8.47	8.40	11.45	23.98	-12.53
5200	40		CDD	AVG	26	0	25/29.4 (MCS11)	8.40	8.50	11.46	23.98	-12.52
			CDD	AVG	26	4	25/29.4 (MCS11)	8.49	8.01	11.26	23.98	-12.72
			CDD	AVG	26	8	25/29.4 (MCS11)	8.42	8.28	11.36	23.98	-12.62
5240	48		CDD	AVG	26	0	25/29.4 (MCS11)	8.16	8.14	11.16	23.98	-12.82
			CDD	AVG	26	4	25/29.4 (MCS11)	8.48	8.27	11.39	23.98	-12.59
			CDD	AVG	26	8	25/29.4 (MCS11)	8.24	8.28	11.27	23.98	-12.71
5745	149		CDD	AVG	26	0	25/29.4 (MCS11)	10.98	10.91	13.96	30.00	-16.04
			CDD	AVG	26	4	25/29.4 (MCS11)	10.94	10.65	13.81	30.00	-16.19
			CDD	AVG	26	8	25/29.4 (MCS11)	10.61	10.97	13.81	30.00	-16.19
5785	157		CDD	AVG	26	0	25/29.4 (MCS11)	10.88	10.97	13.94	30.00	-16.06
			CDD	AVG	26	4	25/29.4 (MCS11)	10.79	10.66	13.73	30.00	-16.27
			CDD	AVG	26	8	25/29.4 (MCS11)	10.57	10.92	13.76	30.00	-16.24
5825	165		CDD	AVG	26	0	25/29.4 (MCS11)	10.61	10.56	13.59	30.00	-16.41
			CDD	AVG	26	4	25/29.4 (MCS11)	10.66	10.65	13.66	30.00	-16.34
			CDD	AVG	26	8	25/29.4 (MCS11)	10.79	11.00	13.91	30.00	-16.09

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

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
5190	38		CDD	AVG	26	0	25/29.4 (MCS11)	8.03	8.29	11.17	23.98	-12.81
			CDD	AVG	26	8	25/29.4 (MCS11)	8.46	8.35	11.42	23.98	-12.56
			CDD	AVG	26	17	25/29.4 (MCS11)	8.38	8.38	11.39	23.98	-12.59
5230	46		CDD	AVG	26	0	25/29.4 (MCS11)	8.30	8.05	11.19	23.98	-12.79
			CDD	AVG	26	8	25/29.4 (MCS11)	8.07	8.25	11.17	23.98	-12.81
			CDD	AVG	26	17	25/29.4 (MCS11)	8.14	8.43	11.30	23.98	-12.68
5755	151		CDD	AVG	26	0	25/29.4 (MCS11)	10.89	10.98	13.95	30.00	-16.05
			CDD	AVG	26	8	25/29.4 (MCS11)	10.63	10.97	13.81	30.00	-16.19
			CDD	AVG	26	17	25/29.4 (MCS11)	10.89	10.79	13.85	30.00	-16.15
5795	159		CDD	AVG	26	0	25/29.4 (MCS11)	10.65	10.84	13.75	30.00	-16.25
			CDD	AVG	26	8	25/29.4 (MCS11)	10.91	10.87	13.90	30.00	-16.10
			CDD	AVG	26	17	25/29.4 (MCS11)	10.91	10.73	13.83	30.00	-16.17

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

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
5210	42		CDD	AVG	26	0	25/29.4 (MCS11)	8.36	8.20	11.29	23.98	-12.69
			CDD	AVG	26	18	25/29.4 (MCS11)	8.22	8.43	11.34	23.98	-12.64
			CDD	AVG	26	36	25/29.4 (MCS11)	8.18	8.42	11.31	23.98	-12.67
5775	155		CDD	AVG	26	0	25/29.4 (MCS11)	10.76	10.58	13.68	30.00	-16.32
			CDD	AVG	26	18	25/29.4 (MCS11)	10.79	10.95	13.88	30.00	-16.12
			CDD	AVG	26	36	25/29.4 (MCS11)	10.69	10.78	13.75	30.00	-16.25

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

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 51 of 150

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7.4.18 ISED SDM Conducted Output Power Measurements (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5GHz (20MHz Bandwidth)	5180	36	SDM	AVG	26	0	25/29.4 (MCS11)	4.17	4.29	7.24	-	-	2.92	10.16	22.76	-12.61
			SDM	AVG	26	4	25/29.4 (MCS11)	4.29	4.35	7.33	-	-	2.92	10.25	22.76	-12.52
			SDM	AVG	26	8	25/29.4 (MCS11)	4.02	4.06	7.05	-	-	2.92	9.97	22.76	-12.80
	5200	40	SDM	AVG	26	0	25/29.4 (MCS11)	4.02	4.07	7.05	-	-	2.92	9.97	22.76	-12.80
			SDM	AVG	26	4	25/29.4 (MCS11)	4.49	4.06	7.29	-	-	2.92	10.21	22.76	-12.56
			SDM	AVG	26	8	25/29.4 (MCS11)	4.02	4.27	7.15	-	-	2.92	10.07	22.76	-12.70
	5240	48	SDM	AVG	26	0	25/29.4 (MCS11)	4.26	4.12	7.20	-	-	2.92	10.12	22.76	-12.65
			SDM	AVG	26	4	25/29.4 (MCS11)	4.28	4.05	7.18	-	-	2.92	10.10	22.76	-12.67
			SDM	AVG	26	8	25/29.4 (MCS11)	4.24	4.39	7.32	-	-	2.92	10.24	22.76	-12.53
	5745	149	SDM	AVG	26	0	25/29.4 (MCS11)	10.98	10.91	13.96	30.00	-16.04	1.10	15.06	-	-
			SDM	AVG	26	4	25/29.4 (MCS11)	10.94	10.65	13.81	30.00	-16.19	1.10	14.91	-	-
			SDM	AVG	26	8	25/29.4 (MCS11)	10.61	10.97	13.81	30.00	-16.19	1.10	14.91	-	-
	5785	157	SDM	AVG	26	0	25/29.4 (MCS11)	10.88	10.97	13.94	30.00	-16.06	1.10	15.04	-	-
			SDM	AVG	26	4	25/29.4 (MCS11)	10.79	10.66	13.73	30.00	-16.27	1.10	14.83	-	-
			SDM	AVG	26	8	25/29.4 (MCS11)	10.57	10.92	13.76	30.00	-16.24	1.10	14.86	-	-
	5825	165	SDM	AVG	26	0	25/29.4 (MCS11)	10.61	10.56	13.59	30.00	-16.41	1.10	14.69	-	-
			SDM	AVG	26	4	25/29.4 (MCS11)	10.66	10.65	13.66	30.00	-16.34	1.10	14.76	-	-
			SDM	AVG	26	8	25/29.4 (MCS11)	10.79	11.00	13.91	30.00	-16.09	1.10	15.01	-	-

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

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5GHz (40MHz Bandwidth)	5190	38	SDM	AVG	26	0	25/29.4 (MCS11)	4.40	4.14	7.28	-	-	2.92	10.20	22.76	-12.57
			SDM	AVG	26	8	25/29.4 (MCS11)	4.27	4.12	7.21	-	-	2.92	10.13	22.76	-12.64
			SDM	AVG	26	17	25/29.4 (MCS11)	4.07	4.35	7.22	-	-	2.92	10.14	22.76	-12.63
	5230	46	SDM	AVG	26	0	25/29.4 (MCS11)	4.18	4.09	7.15	-	-	2.92	10.07	22.76	-12.70
			SDM	AVG	26	8	25/29.4 (MCS11)	4.45	4.43	7.45	-	-	2.92	10.37	22.76	-12.40
			SDM	AVG	26	17	25/29.4 (MCS11)	4.50	4.05	7.29	-	-	2.92	10.21	22.76	-12.56
	5755	151	SDM	AVG	26	0	25/29.4 (MCS11)	10.89	10.98	13.95	30.00	-16.05	1.20	15.15	-	-
			SDM	AVG	26	8	25/29.4 (MCS11)	10.63	10.97	13.81	30.00	-16.19	1.20	15.01	-	-
			SDM	AVG	26	17	25/29.4 (MCS11)	10.89	10.79	13.85	30.00	-16.15	1.20	15.05	-	-
	5795	159	SDM	AVG	26	0	25/29.4 (MCS11)	10.65	10.84	13.75	30.00	-16.25	1.20	14.95	-	-
			SDM	AVG	26	8	25/29.4 (MCS11)	10.91	10.87	13.90	30.00	-16.10	1.20	15.10	-	-
			SDM	AVG	26	17	25/29.4 (MCS11)	10.91	10.73	13.83	30.00	-16.17	1.20	15.03	-	-

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

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5GHz (80MHz Bandwidth)	5210	42	SDM	AVG	26	0	25/29.4 (MCS11)	4.29	4.05	7.18	-	-	2.92	10.10	22.76	-12.67
			SDM	AVG	26	18	25/29.4 (MCS11)	4.22	4.27	7.26	-	-	2.92	10.18	22.76	-12.59
			SDM	AVG	26	36	25/29.4 (MCS11)	4.05	4.46	7.27	-	-	2.92	10.19	22.76	-12.58
	5775	155	SDM	AVG	26	0	25/29.4 (MCS11)	10.76	10.58	13.68	30.00	-16.32	1.20	14.88	-	-
			SDM	AVG	26	18	25/29.4 (MCS11)	10.79	10.95	13.88	30.00	-16.12	1.20	15.08	-	-
			SDM	AVG	26	36	25/29.4 (MCS11)	10.69	10.78	13.75	30.00	-16.25	1.20	14.95	-	-

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

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 52 of 150

7.4.19 FCC CDD Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5260	52	CDD	AVG	52	37	50/58.8 (MCS11)	11.25	11.36	14.32	23.90	-9.58
			CDD	AVG	52	39	50/58.8 (MCS11)	11.17	11.14	14.16	23.90	-9.74
			CDD	AVG	52	40	50/58.8 (MCS11)	11.22	11.01	14.12	23.90	-9.78
	5300	60	CDD	AVG	52	37	50/58.8 (MCS11)	11.29	11.47	14.39	23.90	-9.51
			CDD	AVG	52	39	50/58.8 (MCS11)	11.12	11.24	14.19	23.90	-9.71
			CDD	AVG	52	40	50/58.8 (MCS11)	11.17	11.28	14.24	23.90	-9.66
	5320	64	CDD	AVG	52	37	50/58.8 (MCS11)	11.04	11.46	14.26	23.90	-9.64
			CDD	AVG	52	39	50/58.8 (MCS11)	11.35	11.26	14.32	23.90	-9.58
			CDD	AVG	52	40	50/58.8 (MCS11)	11.03	11.01	14.03	23.90	-9.87
	5500	100	CDD	AVG	52	37	50/58.8 (MCS11)	11.24	11.43	14.34	23.87	-9.53
			CDD	AVG	52	39	50/58.8 (MCS11)	11.12	11.45	14.30	23.87	-9.57
			CDD	AVG	52	40	50/58.8 (MCS11)	11.07	11.16	14.12	23.87	-9.75
	5580	116	CDD	AVG	52	37	50/58.8 (MCS11)	11.26	11.12	14.20	23.87	-9.67
			CDD	AVG	52	39	50/58.8 (MCS11)	11.46	11.04	14.27	23.87	-9.60
			CDD	AVG	52	40	50/58.8 (MCS11)	11.33	11.04	14.20	23.87	-9.67
	5720	144	CDD	AVG	52	37	50/58.8 (MCS11)	11.00	11.34	14.18	23.87	-9.69
			CDD	AVG	52	39	50/58.8 (MCS11)	11.47	11.46	14.47	23.87	-9.40
			CDD	AVG	52	40	50/58.8 (MCS11)	11.29	11.10	14.21	23.87	-9.66

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

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5270	54	CDD	AVG	52	37	50/58.8 (MCS11)	11.04	11.14	14.10	23.90	-9.80
			CDD	AVG	52	40	50/58.8 (MCS11)	11.00	11.31	14.17	23.90	-9.73
			CDD	AVG	52	44	50/58.8 (MCS11)	11.14	11.45	14.31	23.90	-9.59
	5310	62	CDD	AVG	52	37	50/58.8 (MCS11)	11.09	11.40	14.26	23.90	-9.64
			CDD	AVG	52	40	50/58.8 (MCS11)	11.31	11.44	14.38	23.90	-9.52
			CDD	AVG	52	44	50/58.8 (MCS11)	11.18	11.13	14.17	23.90	-9.73
	5510	102	CDD	AVG	52	37	50/58.8 (MCS11)	11.06	11.37	14.23	23.87	-9.64
			CDD	AVG	52	40	50/58.8 (MCS11)	11.30	11.46	14.39	23.87	-9.48
			CDD	AVG	52	44	50/58.8 (MCS11)	11.33	11.24	14.29	23.87	-9.58
	5550	110	CDD	AVG	52	37	50/58.8 (MCS11)	11.39	11.20	14.30	23.87	-9.57
			CDD	AVG	52	40	50/58.8 (MCS11)	11.15	11.35	14.26	23.87	-9.61
			CDD	AVG	52	44	50/58.8 (MCS11)	11.49	11.14	14.33	23.87	-9.54
	5590	118	CDD	AVG	52	37	50/58.8 (MCS11)	11.44	11.39	14.43	23.87	-9.44
			CDD	AVG	52	40	50/58.8 (MCS11)	11.09	11.21	14.16	23.87	-9.71
			CDD	AVG	52	44	50/58.8 (MCS11)	11.38	11.01	14.21	23.87	-9.66
	5670	134	CDD	AVG	52	37	50/58.8 (MCS11)	11.18	11.36	14.28	23.87	-9.59
			CDD	AVG	52	40	50/58.8 (MCS11)	11.37	11.30	14.35	23.87	-9.52
			CDD	AVG	52	44	50/58.8 (MCS11)	11.11	11.22	14.17	23.87	-9.70
	5710	142	CDD	AVG	52	37	50/58.8 (MCS11)	11.02	11.27	14.16	23.87	-9.71
			CDD	AVG	52	40	50/58.8 (MCS11)	11.19	11.29	14.25	23.87	-9.62
			CDD	AVG	52	44	50/58.8 (MCS11)	11.06	11.49	14.29	23.87	-9.58

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

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5290	58	CDD	AVG	52	37	50/58.8 (MCS11)	11.26	11.08	14.18	23.90	-9.72
			CDD	AVG	52	44	50/58.8 (MCS11)	11.38	11.39	14.40	23.90	-9.50
			CDD	AVG	52	52	50/58.8 (MCS11)	11.04	11.36	14.21	23.90	-9.69
	5530	106	CDD	AVG	52	37	50/58.8 (MCS11)	11.07	11.50	14.30	23.87	-9.57
			CDD	AVG	52	44	50/58.8 (MCS11)	11.36	11.45	14.41	23.87	-9.46
			CDD	AVG	52	52	50/58.8 (MCS11)	11.19	11.35	14.28	23.87	-9.59
	5610	122	CDD	AVG	52	37	50/58.8 (MCS11)	11.27	11.04	14.16	23.87	-9.71
			CDD	AVG	52	44	50/58.8 (MCS11)	11.36	11.37	14.37	23.87	-9.50
			CDD	AVG	52	52	50/58.8 (MCS11)	11.05	11.10	14.08	23.87	-9.79
	5690	138	CDD	AVG	52	37	50/58.8 (MCS11)	11.39	11.37	14.39	23.87	-9.48
			CDD	AVG	52	44	50/58.8 (MCS11)	11.24	11.44	14.35	23.87	-9.52
			CDD	AVG	52	52	50/58.8 (MCS11)	11.24	11.09	14.18	23.87	-9.69

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

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 53 of 150

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7.4.20 ISED SDM Conducted Output Power Measurements (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5GHz (20MHz Bandwidth)	5260	52	SDM	AVG	52	37	50/58.8 (MCS11)	11.25	11.36	14.32	23.90	-9.58	2.88	17.20	29.90	-12.69
			SDM	AVG	52	39	50/58.8 (MCS11)	11.17	11.14	14.16	23.90	-9.74	2.88	17.04	29.90	-12.85
			SDM	AVG	52	40	50/58.8 (MCS11)	11.22	11.01	14.12	23.90	-9.78	2.88	17.00	29.90	-12.89
	5300	60	SDM	AVG	52	37	50/58.8 (MCS11)	11.29	11.47	14.39	23.90	-9.51	2.88	17.27	29.90	-12.62
			SDM	AVG	52	39	50/58.8 (MCS11)	11.12	11.24	14.19	23.90	-9.71	2.88	17.07	29.90	-12.82
			SDM	AVG	52	40	50/58.8 (MCS11)	11.17	11.28	14.24	23.90	-9.66	2.88	17.12	29.90	-12.77
	5320	64	SDM	AVG	52	37	50/58.8 (MCS11)	11.04	11.46	14.26	23.90	-9.64	2.88	17.14	29.90	-12.75
			SDM	AVG	52	39	50/58.8 (MCS11)	11.35	11.26	14.32	23.90	-9.58	2.88	17.20	29.90	-12.69
			SDM	AVG	52	40	50/58.8 (MCS11)	11.03	11.01	14.03	23.90	-9.87	2.88	16.91	29.90	-12.98
	5500	100	SDM	AVG	52	37	50/58.8 (MCS11)	11.24	11.43	14.34	23.87	-9.53	1.87	16.21	29.87	-13.66
			SDM	AVG	52	39	50/58.8 (MCS11)	11.12	11.45	14.30	23.87	-9.57	1.87	16.17	29.87	-13.70
			SDM	AVG	52	40	50/58.8 (MCS11)	11.07	11.16	14.12	23.87	-9.75	1.87	15.99	29.87	-13.88
5GHz (20MHz Bandwidth)	5580	116	SDM	AVG	52	37	50/58.8 (MCS11)	11.26	11.12	14.20	23.87	-9.67	1.87	16.07	29.87	-13.80
			SDM	AVG	52	39	50/58.8 (MCS11)	11.46	11.04	14.27	23.87	-9.60	1.87	16.14	29.87	-13.73
			SDM	AVG	52	40	50/58.8 (MCS11)	11.33	11.04	14.20	23.87	-9.67	1.87	16.07	29.87	-13.80
	5720	144	SDM	AVG	52	37	50/58.8 (MCS11)	11.00	11.34	14.18	23.87	-9.69	1.87	16.05	29.87	-13.82
			SDM	AVG	52	39	50/58.8 (MCS11)	11.47	11.46	14.47	23.87	-9.40	1.87	16.34	29.87	-13.53
			SDM	AVG	52	40	50/58.8 (MCS11)	11.29	11.10	14.21	23.87	-9.66	1.87	16.08	29.87	-13.79

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

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5GHz (40MHz Bandwidth)	5270	54	SDM	AVG	52	37	50/58.8 (MCS11)	11.04	11.14	14.10	23.90	-9.80	2.88	16.98	29.90	-12.91
			SDM	AVG	52	40	50/58.8 (MCS11)	11.00	11.31	14.17	23.90	-9.73	2.88	17.05	29.90	-12.84
			SDM	AVG	52	44	50/58.8 (MCS11)	11.14	11.45	14.31	23.90	-9.59	2.88	17.19	29.90	-12.70
	5310	62	SDM	AVG	52	37	50/58.8 (MCS11)	11.09	11.40	14.26	23.90	-9.64	2.88	17.14	29.90	-12.75
			SDM	AVG	52	40	50/58.8 (MCS11)	11.31	11.44	14.38	23.90	-9.52	2.88	17.26	29.90	-12.63
			SDM	AVG	52	44	50/58.8 (MCS11)	11.18	11.13	14.17	23.90	-9.73	2.88	17.05	29.90	-12.84
	5510	102	SDM	AVG	52	37	50/58.8 (MCS11)	11.06	11.37	14.23	23.87	-9.64	1.87	16.10	29.87	-13.77
			SDM	AVG	52	40	50/58.8 (MCS11)	11.30	11.46	14.39	23.87	-9.48	1.87	16.26	29.87	-13.61
			SDM	AVG	52	44	50/58.8 (MCS11)	11.33	11.24	14.29	23.87	-9.58	1.87	16.16	29.87	-13.71
	5550	110	SDM	AVG	52	37	50/58.8 (MCS11)	11.39	11.20	14.30	23.87	-9.57	1.87	16.17	29.87	-13.70
			SDM	AVG	52	40	50/58.8 (MCS11)	11.15	11.35	14.26	23.87	-9.61	1.87	16.13	29.87	-13.74
			SDM	AVG	52	44	50/58.8 (MCS11)	11.49	11.14	14.33	23.87	-9.54	1.87	16.20	29.87	-13.67
5GHz (40MHz Bandwidth)	5670	134	SDM	AVG	52	37	50/58.8 (MCS11)	11.18	11.36	14.28	23.87	-9.59	1.87	16.15	29.87	-13.72
			SDM	AVG	52	40	50/58.8 (MCS11)	11.37	11.30	14.35	23.87	-9.52	1.87	16.22	29.87	-13.65
			SDM	AVG	52	44	50/58.8 (MCS11)	11.11	11.22	14.17	23.87	-9.70	1.87	16.04	29.87	-13.83
	5710	142	SDM	AVG	52	37	50/58.8 (MCS11)	11.02	11.27	14.16	23.87	-9.71	1.87	16.03	29.87	-13.84
			SDM	AVG	52	40	50/58.8 (MCS11)	11.19	11.29	14.25	23.87	-9.62	1.87	16.12	29.87	-13.75
			SDM	AVG	52	44	50/58.8 (MCS11)	11.06	11.49	14.29	23.87	-9.58	1.87	16.16	29.87	-13.71

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

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5GHz (80MHz Bandwidth)	5290	58	CDD	AVG	52	37	50/58.8 (MCS11)	11.26	11.08	14.18	23.90	-9.72	3.40	17.58	29.90	-12.32
			CDD	AVG	52	44	50/58.8 (MCS11)	11.38	11.39	14.40	23.90	-9.50	3.40	17.80	29.90	-12.10
			CDD	AVG	52	52	50/58.8 (MCS11)	11.04	11.36	14.21	23.90	-9.69	3.40	17.61	29.90	-12.29
	5530	106	CDD	AVG	52	37	50/58.8 (MCS11)	11.07	11.50	14.30	23.87	-9.57	2.60	16.90	29.87	-12.97
			CDD	AVG	52	44	50/58.8 (MCS11)	11.36	11.45	14.41	23.87	-9.46	2.60	17.01	29.87	-12.86
			CDD	AVG	52	52	50/58.8 (MCS11)	11.19	11.35	14.28	23.87	-9.59	2.60	16.88	29.87	-12.99
	5610	122	CDD	AVG	52	37	50/58.8 (MCS11)	11.27	11.04	14.16	23.87	-9.71	2.60	16.76	29.87	-13.11
			CDD	AVG	52	44	50/58.8 (MCS11)	11.36	11.37	14.37	23.87	-9.50	2.60	16.97	29.87	-12.90
			CDD	AVG	52	52	50/58.8 (MCS11)	11.05	11.10	14.08	23.87	-9.79	2.60	16.68	29.87	-13.19
	5690	138	CDD	AVG	52	37	50/58.8 (MCS11)	11.39	11.37	14.39	23.87	-9.48	2.60	16.99	29.87	-12.88
			CDD	AVG	52	44	50/58.8 (MCS11)	11.24	11.44	14.35	23.87	-9.52	2.60	16.95	29.87	-12.92
			CDD	AVG	52	52	50/58.8 (MCS11)	11.24	11.09	14.18	23.87	-9.69	2.60	16.78	29.87	-13.09

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

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 54 of 150

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

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5180	36	CDD	AVG	106	53	106.3/125 (MCS11)	13.97	13.85	16.92	23.98	-7.06
			CDD	AVG	106	54	106.3/125 (MCS11)	13.74	13.94	16.85	23.98	-7.13
			CDD	AVG	106	53	106.3/125 (MCS11)	14.25	14.04	17.16	23.98	-6.82
	5200	40	CDD	AVG	106	54	106.3/125 (MCS11)	14.21	14.16	17.19	23.98	-6.79
			CDD	AVG	106	53	106.3/125 (MCS11)	14.34	14.23	17.30	23.98	-6.68
	5240	48	CDD	AVG	106	54	106.3/125 (MCS11)	14.32	14.16	17.25	23.98	-6.73
			CDD	AVG	106	53	106.3/125 (MCS11)	14.38	14.08	17.24	23.90	-6.66
	5260	52	CDD	AVG	106	54	106.3/125 (MCS11)	14.37	14.07	17.23	23.90	-6.67
			CDD	AVG	106	53	106.3/125 (MCS11)	14.38	14.46	17.43	23.90	-6.47
	5300	60	CDD	AVG	106	54	106.3/125 (MCS11)	14.45	14.34	17.41	23.90	-6.49
			CDD	AVG	106	53	106.3/125 (MCS11)	14.16	14.50	17.34	23.90	-6.56
	5320	64	CDD	AVG	106	54	106.3/125 (MCS11)	14.22	14.41	17.33	23.90	-6.57
			CDD	AVG	106	53	106.3/125 (MCS11)	14.11	14.35	17.24	23.87	-6.63
	5500	100	CDD	AVG	106	54	106.3/125 (MCS11)	14.10	14.46	17.29	23.87	-6.58
			CDD	AVG	106	53	106.3/125 (MCS11)	14.43	14.35	17.40	23.87	-6.47
	5580	116	CDD	AVG	106	54	106.3/125 (MCS11)	14.34	14.26	17.31	23.87	-6.56
			CDD	AVG	106	53	106.3/125 (MCS11)	14.12	14.20	17.17	23.87	-6.70
	5720	144	CDD	AVG	106	54	106.3/125 (MCS11)	14.36	14.21	17.29	23.87	-6.58
			CDD	AVG	106	53	106.3/125 (MCS11)	16.93	16.52	19.74	30.00	-10.26
	5745	149	CDD	AVG	106	54	106.3/125 (MCS11)	16.91	16.78	19.85	30.00	-10.15
			CDD	AVG	106	53	106.3/125 (MCS11)	16.59	16.58	19.60	30.00	-10.40
	5785	157	CDD	AVG	106	54	106.3/125 (MCS11)	16.64	16.85	19.76	30.00	-10.24
			CDD	AVG	106	53	106.3/125 (MCS11)	16.82	16.79	19.81	30.00	-10.19
	5825	165	CDD	AVG	106	54	106.3/125 (MCS11)	16.81	16.83	19.83	30.00	-10.17

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

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5190	38	CDD	AVG	106	53	106.3/125 (MCS11)	14.47	14.33	17.41	23.98	-6.57
			CDD	AVG	106	54	106.3/125 (MCS11)	14.13	14.32	17.23	23.98	-6.75
			CDD	AVG	106	56	106.3/125 (MCS11)	14.29	14.42	17.36	23.98	-6.62
	5230	46	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.19	16.07	19.14	23.98	-4.84
			CDD	AVG	242	62	243.8/286.8 (MCS11)	16.40	16.12	19.27	23.98	-4.71
			CDD	AVG	242	61	243.8/286.8 (MCS11)	16.30	16.29	19.30	23.90	-4.60
	5270	54	CDD	AVG	242	62	243.8/286.8 (MCS11)	16.05	16.11	19.09	23.90	-4.81
			CDD	AVG	242	61	243.8/286.8 (MCS11)	16.19	16.02	19.12	23.90	-4.78
	5310	62	CDD	AVG	242	62	243.8/286.8 (MCS11)	16.06	16.11	19.10	23.90	-4.80
			CDD	AVG	242	61	243.8/286.8 (MCS11)	14.70	14.46	17.59	23.87	-6.28
	5510	102	CDD	AVG	242	62	243.8/286.8 (MCS11)	14.47	14.54	17.51	23.87	-6.36
			CDD	AVG	242	61	243.8/286.8 (MCS11)	16.35	16.03	19.20	23.87	-4.67
	5550	110	CDD	AVG	242	62	243.8/286.8 (MCS11)	16.47	16.29	19.39	23.87	-4.48
			CDD	AVG	242	61	243.8/286.8 (MCS11)	16.44	16.34	19.40	23.87	-4.47
	5590	118	CDD	AVG	242	62	243.8/286.8 (MCS11)	16.37	16.11	19.25	23.87	-4.62
			CDD	AVG	242	61	243.8/286.8 (MCS11)	16.04	16.13	19.09	23.87	-4.78
	5670	134	CDD	AVG	242	62	243.8/286.8 (MCS11)	16.28	16.16	19.23	23.87	-4.64
			CDD	AVG	106	53	106.3/125 (MCS11)	14.14	14.21	17.18	23.87	-6.69
	5710	142	CDD	AVG	106	54	106.3/125 (MCS11)	14.49	14.21	17.36	23.87	-6.51
			CDD	AVG	106	56	106.3/125 (MCS11)	14.13	14.29	17.22	23.87	-6.65
			CDD	AVG	242	61	243.8/286.8 (MCS11)	19.55	19.81	22.69	30.00	-7.31
	5755	151	CDD	AVG	242	62	243.8/286.8 (MCS11)	19.99	19.88	22.95	30.00	-7.05
			CDD	AVG	242	61	243.8/286.8 (MCS11)	19.68	19.58	22.64	30.00	-7.36
	5795	159	CDD	AVG	242	62	243.8/286.8 (MCS11)	19.65	19.95	22.81	30.00	-7.19

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

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5210	42	CDD	AVG	242	61	243.8/286.8 (MCS11)	13.98	13.91	16.96	23.98	-7.02
			CDD	AVG	242	62	243.8/286.8 (MCS11)	13.91	13.86	16.90	23.98	-7.08
	5290	58	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.17	15.88	19.04	23.90	-4.86
			CDD	AVG	242	62	243.8/286.8 (MCS11)	16.20	16.24	19.23	23.90	-4.67
			CDD	AVG	242	61	243.8/286.8 (MCS11)	14.27	14.34	17.32	23.87	-6.55
	5530	106	CDD	AVG	242	62	243.8/286.8 (MCS11)	14.61	14.61	17.62	23.87	-6.25
			CDD	AVG	484	65	487.5/573.5 (MCS11)	18.98	18.70	21.85	23.87	-2.02
	5610	122	CDD	AVG	484	66	487.5/573.5 (MCS11)	18.90	18.57	21.75	23.87	-2.12
			CDD	AVG	484	65	487.5/573.5 (MCS11)	14.12	14.27	17.20	23.87	-6.67
	5690	138	CDD	AVG	484	66	487.5/573.5 (MCS11)	14.13	14.28	17.22	23.87	-6.65
			CDD	AVG	242	61	243.8/286.8 (MCS11)	19.89	19.71	22.81	30.00	-7.19
	5775	155	CDD	AVG	242	62	243.8/286.8 (MCS11)	19.96	19.90	22.94	30.00	-7.06

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

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 55 of 150

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7.4.22 ISED SDM Conducted Output Power Measurements (Highest Power Among Partially Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5180	36		SDM	AVG	106	53	106.3/125 (MCS11)	10.41	10.12	13.28	-	-	2.92	16.20	22.76	-6.57
			SDM	AVG	106	54	106.3/125 (MCS11)	10.07	10.13	13.11	-	-	2.92	16.03	22.76	-6.74
5200	40		SDM	AVG	106	53	106.3/125 (MCS11)	10.07	10.26	13.18	-	-	2.92	16.10	22.76	-6.67
			SDM	AVG	106	54	106.3/125 (MCS11)	10.12	10.34	13.24	-	-	2.92	16.16	22.76	-6.61
5240	48		SDM	AVG	106	53	106.3/125 (MCS11)	10.21	10.46	13.35	-	-	2.92	16.27	22.76	-6.50
			SDM	AVG	106	54	106.3/125 (MCS11)	10.21	10.08	13.15	-	-	2.92	16.07	22.76	-6.70
5260	52		SDM	AVG	106	53	106.3/125 (MCS11)	14.38	14.08	17.24	23.90	-6.66	3.40	20.64	29.90	-9.26
			SDM	AVG	106	54	106.3/125 (MCS11)	14.37	14.07	17.23	23.90	-6.67	3.40	20.63	29.90	-9.27
5300	60		SDM	AVG	106	53	106.3/125 (MCS11)	14.38	14.46	17.43	23.90	-6.47	3.40	20.83	29.90	-9.07
			SDM	AVG	106	54	106.3/125 (MCS11)	14.45	14.34	17.41	23.90	-6.49	3.40	20.81	29.90	-9.09
5320	64		SDM	AVG	106	53	106.3/125 (MCS11)	14.16	14.50	17.34	23.90	-6.56	3.40	20.74	29.90	-9.16
			SDM	AVG	106	54	106.3/125 (MCS11)	14.22	14.41	17.33	23.90	-6.57	3.40	20.73	29.90	-9.17
5500	100		SDM	AVG	106	53	106.3/125 (MCS11)	14.11	14.35	17.24	23.87	-6.63	2.60	19.84	29.87	-10.03
			SDM	AVG	106	54	106.3/125 (MCS11)	14.10	14.46	17.29	23.87	-6.58	2.60	19.89	29.87	-9.98
5580	116		SDM	AVG	106	53	106.3/125 (MCS11)	14.43	14.35	17.40	23.87	-6.47	2.60	20.00	29.87	-9.87
			SDM	AVG	106	54	106.3/125 (MCS11)	14.34	14.26	17.31	23.87	-6.56	2.60	19.91	29.87	-9.96
5720	144		SDM	AVG	106	53	106.3/125 (MCS11)	14.12	14.20	17.17	23.87	-6.70	2.60	19.77	29.87	-10.10
			SDM	AVG	106	54	106.3/125 (MCS11)	14.36	14.21	17.29	23.87	-6.58	2.60	19.89	29.87	-9.98
5745	149		SDM	AVG	106	53	106.3/125 (MCS11)	16.93	16.52	19.74	30.00	-10.26	1.20	20.94	-	-
			SDM	AVG	106	54	106.3/125 (MCS11)	16.91	16.78	19.85	30.00	-10.15	1.20	21.05	-	-
5785	157		SDM	AVG	106	53	106.3/125 (MCS11)	16.59	16.58	19.60	30.00	-10.40	1.20	20.80	-	-
			SDM	AVG	106	54	106.3/125 (MCS11)	16.64	16.85	19.76	30.00	-10.24	1.20	20.96	-	-
5825	165		SDM	AVG	106	53	106.3/125 (MCS11)	16.82	16.79	19.81	30.00	-10.19	1.20	21.01	-	-
			SDM	AVG	106	54	106.3/125 (MCS11)	16.81	16.83	19.83	30.00	-10.17	1.20	21.03	-	-

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

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5190	38		SDM	AVG	242	61	243.8/286.8 (MCS11)	12.47	12.28	15.38	-	-	2.92	18.30	22.76	-4.47
			SDM	AVG	242	62	243.8/286.8 (MCS11)	12.18	12.44	15.32	-	-	2.92	18.24	22.76	-4.53
5230	46		SDM	AVG	242	61	243.8/286.8 (MCS11)	12.08	12.27	15.19	-	-	2.92	18.11	22.76	-4.66
			SDM	AVG	242	62	243.8/286.8 (MCS11)	12.39	12.29	15.35	-	-	2.92	18.27	22.76	-4.50
5270	54		SDM	AVG	242	61	243.8/286.8 (MCS11)	16.30	16.29	19.30	23.90	-4.60	3.40	22.70	29.90	-7.20
			SDM	AVG	242	62	243.8/286.8 (MCS11)	16.05	16.11	19.09	23.90	-4.81	3.40	22.49	29.90	-7.41
5310	62		SDM	AVG	242	61	243.8/286.8 (MCS11)	16.19	16.02	19.12	23.90	-4.78	3.40	22.52	29.90	-7.38
			SDM	AVG	242	62	243.8/286.8 (MCS11)	16.06	16.11	19.10	23.90	-4.80	3.40	22.50	29.90	-7.40
5510	102		SDM	AVG	242	61	243.8/286.8 (MCS11)	14.70	14.46	17.59	23.87	-6.28	2.60	20.19	29.87	-9.68
			SDM	AVG	242	62	243.8/286.8 (MCS11)	14.47	14.54	17.51	23.87	-6.36	2.60	20.11	29.87	-9.76
5550	110		SDM	AVG	242	61	243.8/286.8 (MCS11)	16.35	16.03	19.20	23.87	-4.67	2.60	21.80	29.87	-8.07
			SDM	AVG	242	62	243.8/286.8 (MCS11)	16.47	16.29	19.39	23.87	-4.48	2.60	21.99	29.87	-7.88
5670	134		SDM	AVG	242	61	243.8/286.8 (MCS11)	16.04	16.13	19.09	23.87	-4.78	2.60	21.69	29.87	-8.18
			SDM	AVG	242	62	243.8/286.8 (MCS11)	16.28	16.16	19.23	23.87	-4.64	2.60	21.83	29.87	-8.04
5710	142		SDM	AVG	106	53	243.8/286.8 (MCS11)	14.14	14.21	17.18	23.87	-6.69	2.60	19.78	29.87	-10.09
			SDM	AVG	106	54	243.8/286.8 (MCS11)	14.49	14.21	17.36	23.87	-6.51	2.60	19.96	29.87	-9.91
5755	151		SDM	AVG	106	56	243.8/286.8 (MCS11)	14.13	14.29	17.22	23.87	-6.65	2.60	19.82	29.87	-10.05
			SDM	AVG	242	61	243.8/286.8 (MCS11)	19.55	19.81	22.69	30.00	-7.31	1.20	23.89	-	-
5795	159		SDM	AVG	242	62	243.8/286.8 (MCS11)	19.99	19.88	22.95	30.00	-7.05	1.20	24.15	-	-
			SDM	AVG	242	61	243.8/286.8 (MCS11)	19.68	19.58	22.64	30.00	-7.36	1.20	23.84	-	-
			SDM	AVG	242	62	243.8/286.8 (MCS11)	19.65	19.95	22.81	30.00	-7.19	1.20	24.01	-	-

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

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
5210	42		SDM	AVG	242	61	243.8/286.8 (MCS11)	12.31	12.21	15.27	-	-	2.92	18.19	22.76	-4.58
			SDM	AVG	242	62	243.8/286.8 (MCS11)	12.37	12.25	15.32	-	-	2.92	18.24	22.76	-4.53
5290	58		SDM	AVG	242	61	243.8/286.8 (MCS11)	16.17	15.88	19.04	23.90	-4.86	3.40	22.44	29.90	-7.46
			SDM	AVG	242	62	243.8/286.8 (MCS11)	16.20	16.24	19.23	23.90	-4.67	3.40	22.63	29.90	-7.27
5530	106		SDM	AVG	242	61	243.8/286.8 (MCS11)	14.27	14.34	17.32	23.87	-6.55	2.60	19.92	29.87	-9.95
			SDM	AVG	242	62	243.8/286.8 (MCS11)	14.61	14.61	17.62	23.87	-6.25	2.60	20.22	29.87	-9.65
5775	155		SDM	AVG	242	61	243.8/286.8 (MCS11)	19.89	19.71	22.81	30.00	-7.19	1.20	24.01	-	-
			SDM	AVG	242	62	243.8/286.8 (MCS11)	19.96	19.90	22.94	30.00	-7.06	1.20	24.14	-	-

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

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7.4.23 FCC CDD Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5180	36	CDD	AVG	242	61	243.8/286.8 (MCS11)	13.87	13.81	16.85	23.98	-7.13
	5200	40	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.09	16.09	19.10	23.98	-4.88
	5240	48	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.26	16.24	19.26	23.98	-4.72
	5260	52	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.42	16.38	19.41	23.90	-4.49
	5300	60	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.44	16.04	19.26	23.90	-4.64
	5320	64	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.22	16.17	19.20	23.90	-4.70
	5500	100	CDD	AVG	242	61	243.8/286.8 (MCS11)	14.43	14.53	17.49	23.87	-6.38
	5580	116	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.41	16.49	19.46	23.87	-4.41
	5720	144	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.21	16.24	19.24	23.87	-4.63
	5745	149	CDD	AVG	242	61	243.8/286.8 (MCS11)	20.00	19.55	22.79	30.00	-7.21
	5785	157	CDD	AVG	242	61	243.8/286.8 (MCS11)	19.71	19.79	22.76	30.00	-7.24
	5825	165	CDD	AVG	242	61	243.8/286.8 (MCS11)	19.52	19.56	22.55	30.00	-7.45

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

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5190	38	CDD	AVG	484	65	487.5/573.5 (MCS11)	11.94	11.94	14.95	23.98	-9.03
	5230	46	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.21	18.36	21.29	23.98	-2.69
	5270	54	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.95	18.88	21.92	23.90	-1.98
	5310	62	CDD	AVG	484	65	487.5/573.5 (MCS11)	13.01	13.28	16.16	23.90	-7.74
	5510	102	CDD	AVG	484	65	487.5/573.5 (MCS11)	12.00	11.94	14.98	23.87	-8.89
	5550	110	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.94	18.54	21.75	23.87	-2.12
	5590	118	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.94	18.99	21.97	23.87	-1.90
	5670	134	CDD	AVG	484	65	487.5/573.5 (MCS11)	14.37	14.02	17.21	23.87	-6.66
	5710	142	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.93	18.92	21.94	23.87	-1.93
	5755	151	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.84	18.96	21.91	30.00	-8.09
	5795	159	CDD	AVG	484	65	487.5/573.5 (MCS11)	19.69	19.66	22.68	30.00	-7.32

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

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Ant1	Ant2	Summed		
	5210	42	CDD	AVG	996	67	1020.8/1201 (MCS11)	10.55	10.73	13.65	23.98	-10.33
	5290	58	CDD	AVG	996	67	1020.8/1201 (MCS11)	10.54	10.70	13.63	23.90	-10.27
	5530	106	CDD	AVG	996	67	1020.8/1201 (MCS11)	11.80	11.79	14.80	23.87	-9.07
	5610	122	CDD	AVG	996	67	1020.8/1201 (MCS11)	13.28	13.08	16.19	23.87	-7.68
	5690	138	CDD	AVG	996	67	1020.8/1201 (MCS11)	19.88	19.91	22.91	23.87	-0.96
	5775	155	CDD	AVG	996	67	1020.8/1201 (MCS11)	15.53	15.49	18.52	30.00	-11.48

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

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7.4.24 ISED SDM Conducted Output Power Measurements (Fully-loaded RU)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
	5180	36	SDM	AVG	242	61	243.8/286.8 (MCS11)	12.34	12.08	15.22	-	-	2.92	18.14	22.76	-4.63
	5200	40	SDM	AVG	242	61	243.8/286.8 (MCS11)	12.11	12.31	15.22	-	-	2.92	18.14	22.76	-4.63
	5240	48	SDM	AVG	242	61	243.8/286.8 (MCS11)	12.20	12.43	15.33	-	-	2.92	18.25	22.76	-4.52
	5260	52	SDM	AVG	242	61	243.8/286.8 (MCS11)	16.42	16.38	19.41	23.90	-4.49	3.40	22.81	29.90	-7.09
	5300	60	SDM	AVG	242	61	243.8/286.8 (MCS11)	16.44	16.04	19.26	23.90	-4.64	3.40	22.66	29.90	-7.24
	5320	64	SDM	AVG	242	61	243.8/286.8 (MCS11)	16.22	16.17	19.20	23.90	-4.70	3.40	22.60	29.90	-7.30
	5500	100	SDM	AVG	242	61	243.8/286.8 (MCS11)	14.43	14.53	17.49	23.87	-6.38	2.60	20.09	29.87	-9.78
	5580	116	SDM	AVG	242	61	243.8/286.8 (MCS11)	16.41	16.49	19.46	23.87	-4.41	2.60	22.06	29.87	-7.81
	5720	144	SDM	AVG	242	61	243.8/286.8 (MCS11)	16.21	16.24	19.24	23.87	-4.63	2.60	21.84	29.87	-8.03
	5745	149	SDM	AVG	242	61	243.8/286.8 (MCS11)	20.00	19.55	22.79	30.00	-7.21	1.20	23.99	-	-
	5785	157	SDM	AVG	242	61	243.8/286.8 (MCS11)	19.71	19.79	22.76	30.00	-7.24	1.20	23.96	-	-
	5825	165	SDM	AVG	242	61	243.8/286.8 (MCS11)	19.52	19.56	22.55	30.00	-7.45	1.20	23.75	-	-

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

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
	5190	38	SDM	AVG	484	65	487.5/573.5 (MCS11)	11.97	12.21	15.10	-	-	2.92	18.02	22.76	-4.75
	5230	46	SDM	AVG	484	65	487.5/573.5 (MCS11)	14.59	14.75	17.68	-	-	2.92	20.60	22.76	-2.17
	5270	54	SDM	AVG	484	65	487.5/573.5 (MCS11)	18.95	18.88	21.92	23.90	-1.98	3.40	25.32	29.90	-4.58
	5310	62	SDM	AVG	484	65	487.5/573.5 (MCS11)	13.01	13.28	16.16	23.90	-7.74	3.40	19.56	29.90	-10.34
	5510	102	SDM	AVG	484	65	487.5/573.5 (MCS11)	12.00	11.94	14.98	23.87	-8.89	2.60	17.58	29.87	-12.29
	5550	110	SDM	AVG	484	65	487.5/573.5 (MCS11)	18.94	18.54	21.75	23.87	-2.12	2.60	24.35	29.87	-5.52
	5670	134	SDM	AVG	484	65	487.5/573.5 (MCS11)	14.37	14.02	17.21	23.87	-6.66	2.60	19.81	29.87	-10.06
	5710	142	SDM	AVG	484	65	487.5/573.5 (MCS11)	18.93	18.92	21.94	23.87	-1.93	2.60	24.54	29.87	-5.33
	5755	151	SDM	AVG	484	65	487.5/573.5 (MCS11)	18.84	18.96	21.91	30.00	-8.09	1.20	23.11	-	-
	5795	159	SDM	AVG	484	65	487.5/573.5 (MCS11)	19.69	19.66	22.68	30.00	-7.32	1.20	23.88	-	-

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

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	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]
								Ant1	Ant2	Summed						
	5210	42	SDM	AVG	996	67	1020.8/1201 (MCS11)	10.63	10.68	13.66	-	-	2.92	16.58	22.76	-6.19
	5290	58	SDM	AVG	996	67	1020.8/1201 (MCS11)	10.54	10.70	13.63	23.90	-10.27	3.40	17.03	29.90	-12.87
	5530	106	SDM	AVG	996	67	1020.8/1201 (MCS11)	11.80	11.79	14.80	23.87	-9.07	2.60	17.40	29.87	-12.47
	5690	138	SDM	AVG	996	67	1020.8/1201 (MCS11)	19.88	19.91	22.91	23.87	-0.96	2.60	25.51	29.87	-4.36
	5775	155	SDM	AVG	996	67	1020.8/1201 (MCS11)	15.53	15.49	18.52	30.00	-11.48	1.20	19.72	-	-

Table 7-83. ISED SDM 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 Ant1 and Ant2 were first measured separately during CDD/SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

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

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

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

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

Sample CDD/SDM Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 12.34 dBm for Ant1 and 12.08 dBm for Ant2.

$$\text{Ant1} + \text{Ant2} = \text{CDD/SDM}$$

$$(12.34 \text{ dBm} + 12.08 \text{ dBm}) = (17.140 \text{ mW} + 16.144 \text{ mW}) = 33.283 \text{ mW} = 15.22 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average MIMO conducted power was calculated to be 15.22 dBm with directional gain of 2.92 dBi.

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

$$15.22 \text{ dBm} + 2.92 \text{ dBi} = 18.14 \text{ dBm}$$

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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 ≥ 3MHz for U-NII 1, U-NII 2A, U-NII 2C; ≥ 3 x RBW for U-NII 3
5. Number of sweep points ≥ 2 x (span/RBW)
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

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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 partially-loaded RU configurations were investigated for Power Spectral Density measurement, and the lowest RU configurations were found to represent the worst case. Therefore, only the RU26 and RU52 (Partially-loaded RUs) 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 Ant1 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	8/8.6 (MCS11)	7.09	11.0	-3.91
				26	4	8/8.6 (MCS11)	6.30	11.0	-4.70
				26	8	8/8.6 (MCS11)	7.09	11.0	-3.91
	5200	40	ax (20MHz)	26	0	8/8.6 (MCS11)	6.90	11.0	-4.10
				26	4	8/8.6 (MCS11)	6.12	11.0	-4.89
				26	8	8/8.6 (MCS11)	6.92	11.0	-4.09
	5240	48	ax (20MHz)	26	0	8/8.6 (MCS11)	6.94	11.0	-4.06
				26	4	8/8.6 (MCS11)	5.92	11.0	-5.08
				26	8	8/8.6 (MCS11)	6.96	11.0	-4.04
	5190	38	ax (40MHz)	26	0	8/8.6 (MCS11)	7.13	11.0	-3.88
				26	8	8/8.6 (MCS11)	7.56	11.0	-3.44
				26	17	8/8.6 (MCS11)	6.85	11.0	-4.15
	5230	46	ax (40MHz)	26	0	8/8.6 (MCS11)	6.75	11.0	-4.25
				26	8	8/8.6 (MCS11)	6.88	11.0	-4.12
				26	17	8/8.6 (MCS11)	6.78	11.0	-4.22
	5210	42	ax (80MHz)	26	0	8/8.6 (MCS11)	5.53	11.0	-5.47
				26	18	8/8.6 (MCS11)	4.04	11.0	-6.96
				26	36	8/8.6 (MCS11)	4.92	11.0	-6.09

Table 7-84. Band 1 Power Spectral Density Measurements Ant1 (RU26)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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	8/8.6 (MCS11)	7.02	11.0	-3.98
				52	39	8/8.6 (MCS11)	6.85	11.0	-4.15
				52	40	8/8.6 (MCS11)	6.90	11.0	-4.10
	5280	60	ax (20MHz)	52	37	8/8.6 (MCS11)	7.29	11.0	-3.72
				52	39	8/8.6 (MCS11)	7.21	11.0	-3.79
				52	40	8/8.6 (MCS11)	7.02	11.0	-3.98
	5320	64	ax (20MHz)	52	37	8/8.6 (MCS11)	7.43	11.0	-3.58
				52	39	8/8.6 (MCS11)	7.32	11.0	-3.68
				52	40	8/8.6 (MCS11)	7.46	11.0	-3.54
	5270	54	ax (40MHz)	52	37	8/8.6 (MCS11)	7.14	11.0	-3.87
				52	40	8/8.6 (MCS11)	6.71	11.0	-4.29
				52	44	8/8.6 (MCS11)	7.06	11.0	-3.94
	5310	62	ax (40MHz)	52	37	8/8.6 (MCS11)	5.10	11.0	-5.91
				52	40	8/8.6 (MCS11)	5.13	11.0	-5.87
				52	44	8/8.6 (MCS11)	5.36	11.0	-5.64
	5290	58	ax (80MHz)	52	37	8/8.6 (MCS11)	5.17	11.0	-5.83
				52	44	8/8.6 (MCS11)	4.70	11.0	-6.30
				52	52	8/8.6 (MCS11)	5.54	11.0	-5.46
Band 2C	5500	100	ax (20MHz)	52	37	8/8.6 (MCS11)	7.06	11.0	-3.95
				52	39	8/8.6 (MCS11)	7.31	11.0	-3.70
				52	40	8/8.6 (MCS11)	7.20	11.0	-3.80
	5580	116	ax (20MHz)	52	37	8/8.6 (MCS11)	7.42	11.0	-3.58
				52	39	8/8.6 (MCS11)	7.12	11.0	-3.88
				52	40	8/8.6 (MCS11)	7.25	11.0	-3.75
	5720	144	ax (20MHz)	52	37	8/8.6 (MCS11)	7.34	11.0	-3.66
				52	39	8/8.6 (MCS11)	7.11	11.0	-3.90
				52	40	8/8.6 (MCS11)	7.28	11.0	-3.72
	5510	102	ax (40MHz)	52	37	8/8.6 (MCS11)	5.26	11.0	-5.74
				52	40	8/8.6 (MCS11)	5.02	11.0	-5.98
				52	44	8/8.6 (MCS11)	5.00	11.0	-6.00
	5550	110	ax (40MHz)	52	37	8/8.6 (MCS11)	7.22	11.0	-3.78
				52	40	8/8.6 (MCS11)	6.93	11.0	-4.07
				52	44	8/8.6 (MCS11)	7.25	11.0	-3.75
	*5590	118	ax (40MHz)	52	37	8/8.6 (MCS11)	7.31	11.0	-3.69
				52	40	8/8.6 (MCS11)	7.46	11.0	-3.54
				52	44	8/8.6 (MCS11)	7.00	11.0	-4.00
	5670	134	ax (40MHz)	52	37	8/8.6 (MCS11)	6.88	11.0	-4.13
				52	40	8/8.6 (MCS11)	6.95	11.0	-4.05
				52	44	8/8.6 (MCS11)	6.92	11.0	-4.08
	5710	142	ax (40MHz)	52	37	8/8.6 (MCS11)	7.09	11.0	-3.91
				52	40	8/8.6 (MCS11)	7.28	11.0	-3.72
				52	44	8/8.6 (MCS11)	7.04	11.0	-3.96
	5530	106	ax (80MHz)	52	37	8/8.6 (MCS11)	5.55	11.0	-5.45
				52	44	8/8.6 (MCS11)	5.16	11.0	-5.84
				52	52	8/8.6 (MCS11)	5.46	11.0	-5.54
	*5610	122	ax (80MHz)	52	37	8/8.6 (MCS11)	7.12	11.0	-3.88
				52	44	8/8.6 (MCS11)	7.50	11.0	-3.50
				52	52	8/8.6 (MCS11)	6.91	11.0	-4.09
	5690	138	ax (80MHz)	52	37	8/8.6 (MCS11)	7.09	11.0	-3.91
				52	44	8/8.6 (MCS11)	7.07	11.0	-3.93
				52	52	8/8.6 (MCS11)	7.40	11.0	-3.60

Table 7-85. Bands 2A, 2C Power Spectral Density Measurements Ant1 (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	8/8.6 (MCS11)	3.42	11.0	-7.59
	5200	40	ax (20MHz)	242	61	8/8.6 (MCS11)	6.92	11.0	-4.08
	5240	48	ax (20MHz)	242	61	8/8.6 (MCS11)	6.65	11.0	-4.36
	5190	38	ax (40MHz)	484	65	8/8.6 (MCS11)	-2.66	11.0	-13.66
	5230	46	ax (40MHz)	484	65	8/8.6 (MCS11)	3.64	11.0	-7.36
	5210	42	ax (80MHz)	996	67	8/8.6 (MCS11)	-6.52	11.0	-17.52
Band 2A	5260	52	ax (20MHz)	242	61	8/8.6 (MCS11)	6.41	11.0	-4.59
	5280	60	ax (20MHz)	242	61	8/8.6 (MCS11)	6.90	11.0	-4.10
	5320	64	ax (20MHz)	242	61	8/8.6 (MCS11)	4.81	11.0	-6.19
	5270	54	ax (40MHz)	484	65	8/8.6 (MCS11)	4.11	11.0	-6.89
	5310	62	ax (40MHz)	484	65	8/8.6 (MCS11)	-1.01	11.0	-12.01
	5290	58	ax (80MHz)	996	67	8/8.6 (MCS11)	-7.16	11.0	-18.16
Band 2C	5500	100	ax (20MHz)	242	61	8/8.6 (MCS11)	2.58	11.0	-8.43
	5580	116	ax (20MHz)	242	61	8/8.6 (MCS11)	6.90	11.0	-4.10
	5720	144	ax (20MHz)	242	61	8/8.6 (MCS11)	7.10	11.0	-3.90
	5510	102	ax (40MHz)	484	65	8/8.6 (MCS11)	-2.56	11.0	-13.56
	5550	110	ax (40MHz)	484	65	8/8.6 (MCS11)	4.85	11.0	-6.15
	*5590	118	ax (40MHz)	484	65	8/8.6 (MCS11)	4.42	11.0	-6.58
	5670	134	ax (40MHz)	484	65	8/8.6 (MCS11)	0.20	11.0	-10.81
	5710	142	ax (40MHz)	484	65	8/8.6 (MCS11)	4.50	11.0	-6.50
	5530	106	ax (80MHz)	996	67	8/8.6 (MCS11)	-5.85	11.0	-16.85
	*5610	122	ax (80MHz)	996	67	8/8.6 (MCS11)	-0.62	11.0	-11.62
	5690	138	ax (80MHz)	996	67	8/8.6 (MCS11)	1.80	11.0	-9.20

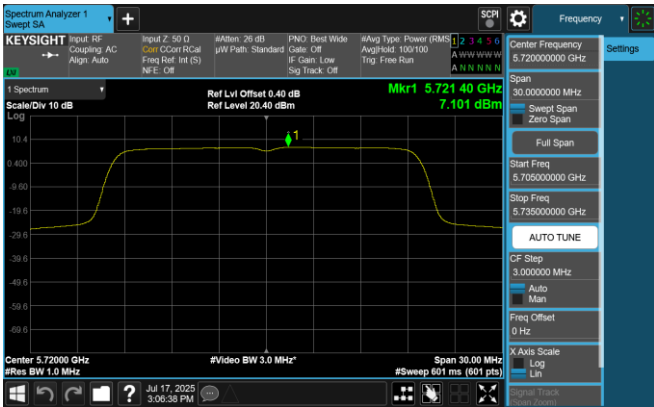
Table 7-86. Bands 1, 2A, 2C Power Spectral Density Measurements Ant1 (Fully-loaded RU)

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

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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	8/8.6 (MCS11)	4.18	30.0	-25.83
				26	4	8/8.6 (MCS11)	4.28	30.0	-25.72
				26	8	8/8.6 (MCS11)	4.41	30.0	-25.59
	5785	157	ax (20MHz)	26	0	8/8.6 (MCS11)	4.48	30.0	-25.52
				26	4	8/8.6 (MCS11)	4.25	30.0	-25.75
				26	8	8/8.6 (MCS11)	4.22	30.0	-25.78
	5825	165	ax (20MHz)	26	0	8/8.6 (MCS11)	4.24	30.0	-25.76
				26	4	8/8.6 (MCS11)	4.24	30.0	-25.76
				26	8	8/8.6 (MCS11)	4.34	30.0	-25.66
	5755	151	ax (40MHz)	26	0	8/8.6 (MCS11)	4.31	30.0	-25.69
				26	8	8/8.6 (MCS11)	4.22	30.0	-25.78
				26	17	8/8.6 (MCS11)	4.22	30.0	-25.79
	5795	159	ax (40MHz)	26	0	8/8.6 (MCS11)	4.13	30.0	-25.87
				26	8	8/8.6 (MCS11)	4.52	30.0	-25.48
				26	17	8/8.6 (MCS11)	4.28	30.0	-25.72
	5775	155	ax (80MHz)	26	0	8/8.6 (MCS11)	4.56	30.0	-25.44
				26	18	8/8.6 (MCS11)	4.21	30.0	-25.80
				26	36	8/8.6 (MCS11)	4.53	30.0	-25.47

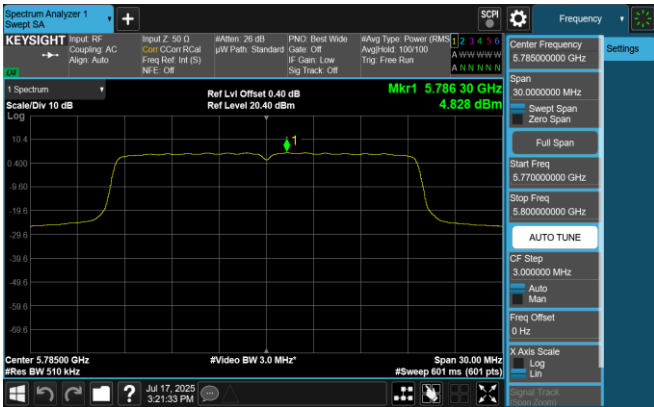
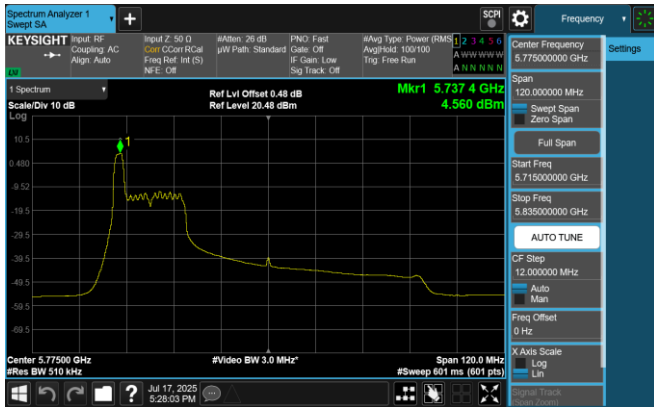
Table 7-87. Band 3 Power Spectral Density Measurements Ant1 (RU26)

	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	8/8.6 (MCS11)	4.77	30.0	-25.24
	5785	157	ax (20MHz)	242	61	8/8.6 (MCS11)	4.83	30.0	-25.17
	5825	165	ax (20MHz)	242	61	8/8.6 (MCS11)	4.57	30.0	-25.43
	5755	151	ax (40MHz)	484	65	8/8.6 (MCS11)	1.89	30.0	-28.11
	5795	159	ax (40MHz)	484	65	8/8.6 (MCS11)	2.12	30.0	-27.88
	5775	155	ax (80MHz)	996	67	8/8.6 (MCS11)	-3.22	30.0	-33.22

Table 7-88. Band 3 Power Spectral Density Measurements Ant1 (Fully-loaded RU)

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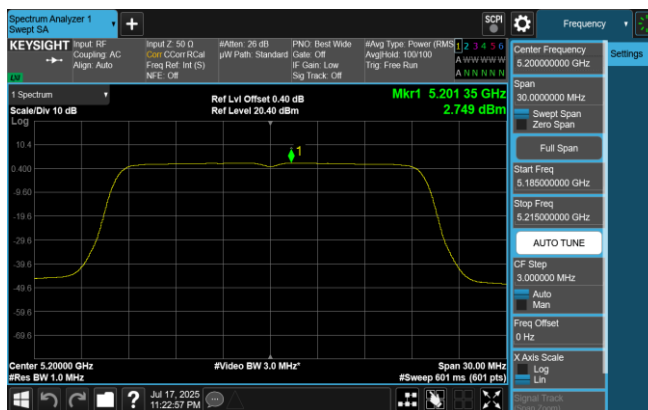
	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	0	8/8.6 (MCS11)	2.61	3.30	5.91	10.0	-4.09
				26	4	8/8.6 (MCS11)	1.66	3.30	4.96	10.0	-5.05
				26	8	8/8.6 (MCS11)	3.14	3.30	6.44	10.0	-3.56
	5200	40	ax (20MHz)	26	0	8/8.6 (MCS11)	3.14	3.30	6.44	10.0	-3.56
				26	4	8/8.6 (MCS11)	2.15	3.30	5.45	10.0	-4.56
				26	8	8/8.6 (MCS11)	2.58	3.30	5.88	10.0	-4.13
	5240	48	ax (20MHz)	26	0	8/8.6 (MCS11)	2.28	3.30	5.58	10.0	-4.42
				26	4	8/8.6 (MCS11)	1.08	3.30	4.38	10.0	-5.62
				26	8	8/8.6 (MCS11)	2.07	3.30	5.37	10.0	-4.63
	5190	38	ax (40MHz)	26	0	8/8.6 (MCS11)	3.36	3.30	6.66	10.0	-3.34
				26	8	8/8.6 (MCS11)	2.60	3.30	5.90	10.0	-4.10
				26	17	8/8.6 (MCS11)	2.90	3.30	6.20	10.0	-3.80
	5230	46	ax (40MHz)	26	0	8/8.6 (MCS11)	3.22	3.30	6.52	10.0	-3.48
				26	8	8/8.6 (MCS11)	2.29	3.30	5.59	10.0	-4.41
				26	17	8/8.6 (MCS11)	2.40	3.30	5.70	10.0	-4.30
	5210	42	ax (80MHz)	26	0	8/8.6 (MCS11)	3.35	3.30	6.65	10.0	-3.35
				26	18	8/8.6 (MCS11)	1.21	3.30	4.51	10.0	-5.49
				26	36	8/8.6 (MCS11)	2.32	3.30	5.62	10.0	-4.38

Table 7-89. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Ant1 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	61	8/8.6 (MCS11)	2.71	3.30	6.01	10.0	-3.99
	5200	40	ax (20MHz)	242	61	8/8.6 (MCS11)	2.75	3.30	6.05	10.0	-3.95
	5240	48	ax (20MHz)	242	61	8/8.6 (MCS11)	2.49	3.30	5.79	10.0	-4.21
	5190	38	ax (40MHz)	484	65	8/8.6 (MCS11)	-2.77	3.30	0.53	10.0	-9.47
	5230	46	ax (40MHz)	484	65	8/8.6 (MCS11)	2.10	3.30	5.40	10.0	-4.60
	5210	42	ax (80MHz)	996	67	8/8.6 (MCS11)	-6.74	3.30	-3.44	10.0	-13.44

Table 7-90. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Ant1 (Fully-loaded RU)

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7.5.2 Ant2 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	8/8.6 (MCS11)	7.19	11.0	-3.81
				26	4	8/8.6 (MCS11)	6.24	11.0	-4.76
				26	8	8/8.6 (MCS11)	7.38	11.0	-3.62
	5200	40	ax (20MHz)	26	0	8/8.6 (MCS11)	7.25	11.0	-3.75
				26	4	8/8.6 (MCS11)	6.19	11.0	-4.81
				26	8	8/8.6 (MCS11)	7.07	11.0	-3.93
	5240	48	ax (20MHz)	26	0	8/8.6 (MCS11)	6.83	11.0	-4.17
				26	4	8/8.6 (MCS11)	6.06	11.0	-4.94
				26	8	8/8.6 (MCS11)	7.02	11.0	-3.98
	5190	38	ax (40MHz)	26	0	8/8.6 (MCS11)	7.43	11.0	-3.57
				26	8	8/8.6 (MCS11)	7.51	11.0	-3.49
				26	17	8/8.6 (MCS11)	7.00	11.0	-4.01
	5230	46	ax (40MHz)	26	0	8/8.6 (MCS11)	7.36	11.0	-3.64
				26	8	8/8.6 (MCS11)	7.46	11.0	-3.54
				26	17	8/8.6 (MCS11)	6.71	11.0	-4.29
	5210	42	ax (80MHz)	26	0	8/8.6 (MCS11)	5.45	11.0	-5.55
				26	18	8/8.6 (MCS11)	3.78	11.0	-7.22
				26	36	8/8.6 (MCS11)	4.93	11.0	-6.08

Table 7-91. Band 1 Power Spectral Density Measurements Ant2 (RU26)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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	8/8.6 (MCS11)	7.35	11.0	-3.65
				52	39	8/8.6 (MCS11)	6.97	11.0	-4.03
				52	40	8/8.6 (MCS11)	7.00	11.0	-4.00
	5280	60	ax (20MHz)	52	37	8/8.6 (MCS11)	7.60	11.0	-3.41
				52	39	8/8.6 (MCS11)	7.13	11.0	-3.87
				52	40	8/8.6 (MCS11)	7.51	11.0	-3.49
	5320	64	ax (20MHz)	52	37	8/8.6 (MCS11)	7.41	11.0	-3.59
				52	39	8/8.6 (MCS11)	7.61	11.0	-3.39
				52	40	8/8.6 (MCS11)	7.32	11.0	-3.68
	5270	54	ax (40MHz)	52	37	8/8.6 (MCS11)	7.04	11.0	-3.96
				52	40	8/8.6 (MCS11)	7.13	11.0	-3.87
				52	44	8/8.6 (MCS11)	7.13	11.0	-3.87
	5310	62	ax (40MHz)	52	37	8/8.6 (MCS11)	5.27	11.0	-5.73
				52	40	8/8.6 (MCS11)	5.30	11.0	-5.70
				52	44	8/8.6 (MCS11)	5.15	11.0	-5.85
	5290	58	ax (80MHz)	52	37	8/8.6 (MCS11)	5.01	11.0	-5.99
				52	44	8/8.6 (MCS11)	4.96	11.0	-6.04
				52	52	8/8.6 (MCS11)	5.26	11.0	-5.74
Band 2C	5500	100	ax (20MHz)	52	37	8/8.6 (MCS11)	7.33	11.0	-3.67
				52	39	8/8.6 (MCS11)	7.10	11.0	-3.90
				52	40	8/8.6 (MCS11)	7.22	11.0	-3.78
	5580	116	ax (20MHz)	52	37	8/8.6 (MCS11)	7.39	11.0	-3.61
				52	39	8/8.6 (MCS11)	7.26	11.0	-3.74
				52	40	8/8.6 (MCS11)	7.09	11.0	-3.91
	5720	144	ax (20MHz)	52	37	8/8.6 (MCS11)	6.97	11.0	-4.04
				52	39	8/8.6 (MCS11)	7.39	11.0	-3.61
				52	40	8/8.6 (MCS11)	7.15	11.0	-3.85
	5510	102	ax (40MHz)	52	37	8/8.6 (MCS11)	5.12	11.0	-5.88
				52	40	8/8.6 (MCS11)	5.29	11.0	-5.71
				52	44	8/8.6 (MCS11)	5.25	11.0	-5.76
	5550	110	ax (40MHz)	52	37	8/8.6 (MCS11)	7.30	11.0	-3.70
				52	40	8/8.6 (MCS11)	7.20	11.0	-3.80
				52	44	8/8.6 (MCS11)	7.06	11.0	-3.94
	* 5590	118	ax (40MHz)	52	37	8/8.6 (MCS11)	7.08	11.0	-3.92
				52	40	8/8.6 (MCS11)	7.29	11.0	-3.71
				52	44	8/8.6 (MCS11)	7.02	11.0	-3.98
	5670	134	ax (40MHz)	52	37	8/8.6 (MCS11)	7.25	11.0	-3.75
				52	40	8/8.6 (MCS11)	7.52	11.0	-3.48
				52	44	8/8.6 (MCS11)	7.16	11.0	-3.84
	5710	142	ax (40MHz)	52	37	8/8.6 (MCS11)	7.39	11.0	-3.61
				52	40	8/8.6 (MCS11)	7.42	11.0	-3.58
				52	44	8/8.6 (MCS11)	7.40	11.0	-3.60
	5530	106	ax (80MHz)	52	37	8/8.6 (MCS11)	5.21	11.0	-5.80
				52	44	8/8.6 (MCS11)	5.41	11.0	-5.59
				52	52	8/8.6 (MCS11)	5.52	11.0	-5.48
	* 5610	122	ax (80MHz)	52	37	8/8.6 (MCS11)	7.30	11.0	-3.70
				52	44	8/8.6 (MCS11)	7.12	11.0	-3.88
				52	52	8/8.6 (MCS11)	7.32	11.0	-3.68
	5690	138	ax (80MHz)	52	37	8/8.6 (MCS11)	7.29	11.0	-3.71
				52	44	8/8.6 (MCS11)	7.06	11.0	-3.94
				52	52	8/8.6 (MCS11)	7.15	11.0	-3.85

Table 7-92. Bands 1, 2A, 2C Power Spectral Density Measurements Ant2 (RU52)

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

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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	8/8.6 (MCS11)	4.03	11.0	-6.97
	5200	40	ax (20MHz)	242	61	8/8.6 (MCS11)	7.06	11.0	-3.94
	5240	48	ax (20MHz)	242	61	8/8.6 (MCS11)	6.66	11.0	-4.34
	5190	38	ax (40MHz)	484	65	8/8.6 (MCS11)	-2.84	11.0	-13.84
	5230	46	ax (40MHz)	484	65	8/8.6 (MCS11)	4.05	11.0	-6.95
	5210	42	ax (80MHz)	996	67	8/8.6 (MCS11)	-6.31	11.0	-17.31
Band 2A	5260	52	ax (20MHz)	242	61	8/8.6 (MCS11)	6.60	11.0	-4.40
	5280	60	ax (20MHz)	242	61	8/8.6 (MCS11)	7.05	11.0	-3.95
	5320	64	ax (20MHz)	242	61	8/8.6 (MCS11)	5.00	11.0	-6.01
	5270	54	ax (40MHz)	484	65	8/8.6 (MCS11)	4.46	11.0	-6.54
	5310	62	ax (40MHz)	484	65	8/8.6 (MCS11)	-0.62	11.0	-11.62
	5290	58	ax (80MHz)	996	67	8/8.6 (MCS11)	-7.13	11.0	-18.13
Band 2C	5500	100	ax (20MHz)	242	61	8/8.6 (MCS11)	2.46	11.0	-8.54
	5580	116	ax (20MHz)	242	61	8/8.6 (MCS11)	6.34	11.0	-4.66
	5720	144	ax (20MHz)	242	61	8/8.6 (MCS11)	6.80	11.0	-4.20
	5510	102	ax (40MHz)	484	65	8/8.6 (MCS11)	-2.45	11.0	-13.45
	5550	110	ax (40MHz)	484	65	8/8.6 (MCS11)	3.83	11.0	-7.17
	*5590	118	ax (40MHz)	484	65	8/8.6 (MCS11)	3.85	11.0	-7.15
	5670	134	ax (40MHz)	484	65	8/8.6 (MCS11)	0.38	11.0	-10.62
	5710	142	ax (40MHz)	484	65	8/8.6 (MCS11)	4.53	11.0	-6.47
	5530	106	ax (80MHz)	996	67	8/8.6 (MCS11)	-5.70	11.0	-16.70
	*5610	122	ax (80MHz)	996	67	8/8.6 (MCS11)	-0.76	11.0	-11.76
	5690	138	ax (80MHz)	996	67	8/8.6 (MCS11)	1.54	11.0	-9.46

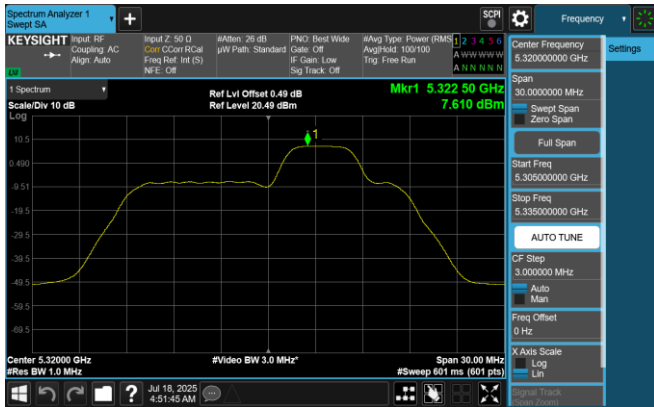
Table 7-93. Bands 1, 2A, 2C Power Spectral Density Measurements Ant2 (Fully-loaded RU)

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

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025		
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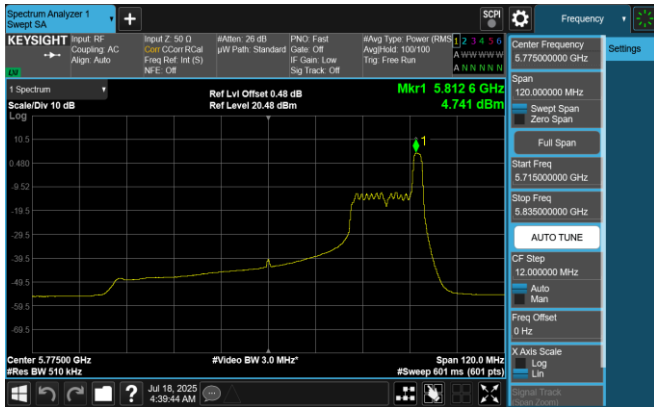
	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26	0	8/8.6 (MCS11)	4.46	30.0	-25.54
				26	4	8/8.6 (MCS11)	4.39	30.0	-25.61
				26	8	8/8.6 (MCS11)	4.26	30.0	-25.74
	5785	157	ax (20MHz)	26	0	8/8.6 (MCS11)	4.51	30.0	-25.49
				26	4	8/8.6 (MCS11)	4.42	30.0	-25.58
				26	8	8/8.6 (MCS11)	4.19	30.0	-25.81
	5825	165	ax (20MHz)	26	0	8/8.6 (MCS11)	4.27	30.0	-25.73
				26	4	8/8.6 (MCS11)	4.09	30.0	-25.91
				26	8	8/8.6 (MCS11)	4.14	30.0	-25.86
	5755	151	ax (40MHz)	26	0	8/8.6 (MCS11)	4.32	30.0	-25.68
				26	8	8/8.6 (MCS11)	4.40	30.0	-25.60
				26	17	8/8.6 (MCS11)	4.40	30.0	-25.60
	5795	159	ax (40MHz)	26	0	8/8.6 (MCS11)	4.13	30.0	-25.87
				26	8	8/8.6 (MCS11)	4.23	30.0	-25.77
				26	17	8/8.6 (MCS11)	4.42	30.0	-25.58
	5775	155	ax (80MHz)	26	0	8/8.6 (MCS11)	4.64	30.0	-25.36
				26	18	8/8.6 (MCS11)	4.10	30.0	-25.90
				26	36	8/8.6 (MCS11)	4.74	30.0	-25.26

Table 7-94. Band 3 Power Spectral Density Measurements Ant2 (RU26)

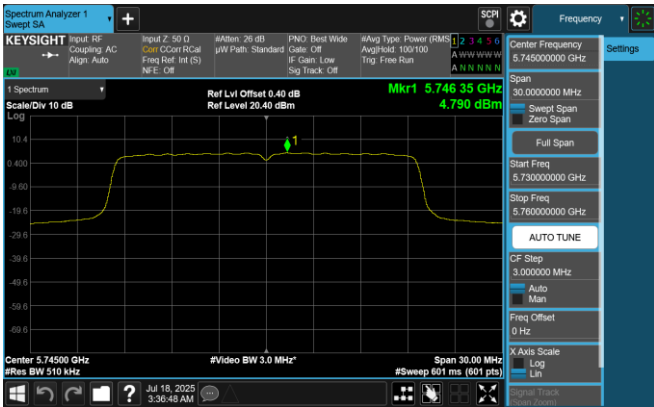
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242	61	8/8.6 (MCS11)	4.79	30.0	-25.21
	5785	157	ax (20MHz)	242	61	8/8.6 (MCS11)	4.75	30.0	-25.25
	5825	165	ax (20MHz)	242	61	8/8.6 (MCS11)	4.63	30.0	-25.37
	5755	151	ax (40MHz)	484	65	8/8.6 (MCS11)	1.53	30.0	-28.47
	5795	159	ax (40MHz)	484	65	8/8.6 (MCS11)	1.64	30.0	-28.36
	5775	155	ax (80MHz)	996	67	8/8.6 (MCS11)	-3.41	30.0	-33.41

Table 7-95. Band 3 Power Spectral Density Measurements Ant2 (Fully-loaded RU)

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Plot 7-17. PSD Ant2 (20MHz BW 11ax Index 36 - RU26 - Ch.155)



Plot 7-18. PSD Ant2 (20MHz BW 11ax- RU242 - Ch.149)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	0	8/8.6 (MCS11)	3.24	2.50	5.74	10.0	-4.26
				26	4	8/8.6 (MCS11)	1.89	2.50	4.39	10.0	-5.62
				26	8	8/8.6 (MCS11)	2.86	2.50	5.36	10.0	-4.64
	5200	40	ax (20MHz)	26	0	8/8.6 (MCS11)	2.63	2.50	5.13	10.0	-4.87
				26	4	8/8.6 (MCS11)	1.79	2.50	4.29	10.0	-5.71
				26	8	8/8.6 (MCS11)	2.35	2.50	4.85	10.0	-5.15
	5240	48	ax (20MHz)	26	0	8/8.6 (MCS11)	2.81	2.50	5.31	10.0	-4.69
				26	4	8/8.6 (MCS11)	2.33	2.50	4.83	10.0	-5.17
				26	8	8/8.6 (MCS11)	3.02	2.50	5.52	10.0	-4.49
	5190	38	ax (40MHz)	26	0	8/8.6 (MCS11)	2.88	2.50	5.38	10.0	-4.62
				26	8	8/8.6 (MCS11)	3.11	2.50	5.61	10.0	-4.39
				26	17	8/8.6 (MCS11)	3.15	2.50	5.65	10.0	-4.35
	5230	46	ax (40MHz)	26	0	8/8.6 (MCS11)	2.45	2.50	4.95	10.0	-5.05
				26	8	8/8.6 (MCS11)	3.08	2.50	5.58	10.0	-4.42
				26	17	8/8.6 (MCS11)	2.60	2.50	5.10	10.0	-4.90
	5210	42	ax (80MHz)	26	0	8/8.6 (MCS11)	3.44	2.50	5.94	10.0	-4.06
				26	18	8/8.6 (MCS11)	2.37	2.50	4.87	10.0	-5.13
				26	36	8/8.6 (MCS11)	3.03	2.50	5.53	10.0	-4.47

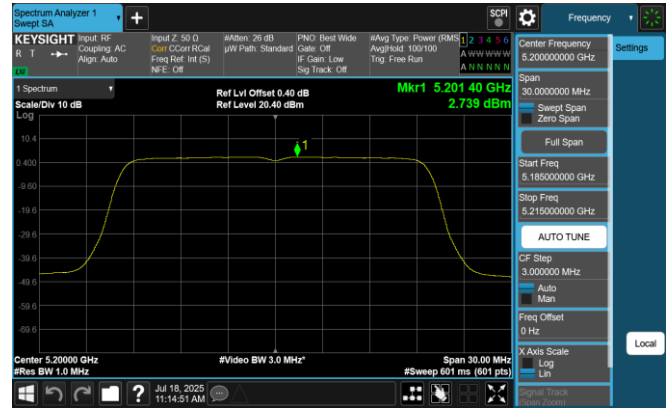
Table 7-96. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Ant2 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	61	8/8.6 (MCS11)	2.70	2.50	5.20	10.0	-4.80
	5200	40	ax (20MHz)	242	61	8/8.6 (MCS11)	2.74	2.50	5.24	10.0	-4.76
	5240	48	ax (20MHz)	242	61	8/8.6 (MCS11)	2.12	2.50	4.62	10.0	-5.38
	5190	38	ax (40MHz)	484	65	8/8.6 (MCS11)	-2.75	2.50	-0.25	10.0	-10.25
	5230	46	ax (40MHz)	484	65	8/8.6 (MCS11)	2.25	2.50	4.75	10.0	-5.25
	5210	42	ax (80MHz)	996	67	8/8.6 (MCS11)	-6.30	2.50	-3.80	10.0	-13.80

Table 7-97. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Ant2 (Fully-loaded RU)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.5.3 Summed CDD/SDM Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Ant1 Power Density [dBm/MHz]	Ant2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	0	8/8.6 (MCS11)	4.87	5.10	8.00	11.0	-3.00
				26	4	8/8.6 (MCS11)	3.67	2.87	6.30	11.0	-4.70
				26	8	8/8.6 (MCS11)	4.86	4.06	7.49	11.0	-3.51
	5200	40	ax (20MHz)	26	0	8/8.6 (MCS11)	4.80	4.08	7.46	11.0	-3.54
				26	4	8/8.6 (MCS11)	3.82	2.77	6.34	11.0	-4.66
				26	8	8/8.6 (MCS11)	4.80	3.75	7.31	11.0	-3.69
	5240	48	ax (20MHz)	26	0	8/8.6 (MCS11)	4.23	3.75	7.01	11.0	-3.99
				26	4	8/8.6 (MCS11)	3.35	3.10	6.24	11.0	-4.76
				26	8	8/8.6 (MCS11)	4.04	3.64	6.86	11.0	-4.14
	5190	38	ax (40MHz)	26	0	8/8.6 (MCS11)	4.39	4.18	7.30	11.0	-3.70
				26	8	8/8.6 (MCS11)	4.89	4.04	7.49	11.0	-3.51
				26	17	8/8.6 (MCS11)	4.64	3.74	7.22	11.0	-3.78
	5230	46	ax (40MHz)	26	0	8/8.6 (MCS11)	4.54	3.45	7.04	11.0	-3.96
				26	8	8/8.6 (MCS11)	4.14	3.78	6.97	11.0	-4.03
				26	17	8/8.6 (MCS11)	4.04	3.51	6.79	11.0	-4.21
	5210	42	ax (80MHz)	26	0	8/8.6 (MCS11)	4.87	4.13	7.52	11.0	-3.48
				26	18	8/8.6 (MCS11)	3.46	3.55	6.51	11.0	-4.49
				26	36	8/8.6 (MCS11)	4.44	3.67	7.08	11.0	-3.92

Table 7-98. Band 1 Power Spectral Density Measurements CDD (RU26)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Ant1 Power Density [dBm/MHz]	Ant2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 2A	5260	52	ax (20MHz)	52	37	8/8.6 (MCS11)	4.48	4.59	7.55	11.0	-3.45
				52	39	8/8.6 (MCS11)	4.38	4.43	7.41	11.0	-3.59
				52	40	8/8.6 (MCS11)	4.33	4.44	7.39	11.0	-3.61
	5280	60	ax (20MHz)	52	37	8/8.6 (MCS11)	4.70	5.07	7.90	11.0	-3.10
				52	39	8/8.6 (MCS11)	4.54	4.92	7.74	11.0	-3.26
				52	40	8/8.6 (MCS11)	4.58	5.03	7.82	11.0	-3.18
	5320	64	ax (20MHz)	52	37	8/8.6 (MCS11)	4.63	5.11	7.89	11.0	-3.11
				52	39	8/8.6 (MCS11)	5.02	4.95	8.00	11.0	-3.00
				52	40	8/8.6 (MCS11)	4.76	4.66	7.72	11.0	-3.28
	5270	54	ax (40MHz)	52	37	8/8.6 (MCS11)	4.27	4.45	7.37	11.0	-3.63
				52	40	8/8.6 (MCS11)	4.11	4.65	7.40	11.0	-3.60
				52	44	8/8.6 (MCS11)	4.29	4.81	7.57	11.0	-3.43
	5310	62	ax (40MHz)	52	37	8/8.6 (MCS11)	4.44	4.97	7.72	11.0	-3.28
				52	40	8/8.6 (MCS11)	4.73	5.13	7.94	11.0	-3.06
				52	44	8/8.6 (MCS11)	4.63	4.73	7.69	11.0	-3.31
	5290	58	ax (80MHz)	52	37	8/8.6 (MCS11)	4.65	4.35	7.51	11.0	-3.49
				52	44	8/8.6 (MCS11)	4.50	4.83	7.68	11.0	-3.32
				52	52	8/8.6 (MCS11)	4.64	5.01	7.84	11.0	-3.16
Band 2C	5500	100	ax (20MHz)	52	37	8/8.6 (MCS11)	4.92	5.08	8.01	11.0	-2.99
				52	39	8/8.6 (MCS11)	4.77	4.95	7.87	11.0	-3.13
				52	40	8/8.6 (MCS11)	4.59	4.72	7.66	11.0	-3.34
	5580	116	ax (20MHz)	52	37	8/8.6 (MCS11)	4.91	4.61	7.77	11.0	-3.23
				52	39	8/8.6 (MCS11)	5.10	4.45	7.80	11.0	-3.20
				52	40	8/8.6 (MCS11)	4.94	4.60	7.78	11.0	-3.22
	5720	144	ax (20MHz)	52	37	8/8.6 (MCS11)	4.59	4.90	7.76	11.0	-3.24
				52	39	8/8.6 (MCS11)	5.13	4.94	8.04	11.0	-2.96
				52	40	8/8.6 (MCS11)	4.96	4.75	7.87	11.0	-3.13
	5510	102	ax (40MHz)	52	37	8/8.6 (MCS11)	4.73	4.95	7.85	11.0	-3.15
				52	40	8/8.6 (MCS11)	4.81	4.99	7.91	11.0	-3.09
				52	44	8/8.6 (MCS11)	4.93	4.83	7.89	11.0	-3.11
	5550	110	ax (40MHz)	52	37	8/8.6 (MCS11)	4.86	4.61	7.75	11.0	-3.25
				52	40	8/8.6 (MCS11)	4.67	4.84	7.77	11.0	-3.23
				52	44	8/8.6 (MCS11)	5.08	4.66	7.88	11.0	-3.12
	*5590	118	ax (40MHz)	52	37	8/8.6 (MCS11)	5.07	4.86	7.98	11.0	-3.02
				52	40	8/8.6 (MCS11)	4.62	4.61	7.62	11.0	-3.38
				52	44	8/8.6 (MCS11)	5.03	4.32	7.70	11.0	-3.30
	5670	134	ax (40MHz)	52	37	8/8.6 (MCS11)	4.67	4.85	7.77	11.0	-3.23
				52	40	8/8.6 (MCS11)	4.89	4.75	7.83	11.0	-3.17
				52	44	8/8.6 (MCS11)	4.54	4.70	7.63	11.0	-3.37
	5710	142	ax (40MHz)	52	37	8/8.6 (MCS11)	4.51	4.71	7.62	11.0	-3.38
				52	40	8/8.6 (MCS11)	4.69	4.76	7.73	11.0	-3.27
				52	44	8/8.6 (MCS11)	4.72	5.03	7.89	11.0	-3.11
	5530	106	ax (80MHz)	52	37	8/8.6 (MCS11)	4.71	5.16	7.95	11.0	-3.05
				52	44	8/8.6 (MCS11)	4.82	4.74	7.79	11.0	-3.21
				52	52	8/8.6 (MCS11)	4.93	5.02	7.99	11.0	-3.01
	*5610	122	ax (80MHz)	52	37	8/8.6 (MCS11)	4.99	4.64	7.83	11.0	-3.17
				52	44	8/8.6 (MCS11)	4.89	4.80	7.85	11.0	-3.15
				52	52	8/8.6 (MCS11)	4.63	4.67	7.66	11.0	-3.34
	5690	138	ax (80MHz)	52	37	8/8.6 (MCS11)	4.90	4.91	7.92	11.0	-3.08
				52	44	8/8.6 (MCS11)	4.74	4.85	7.80	11.0	-3.20
				52	52	8/8.6 (MCS11)	5.04	4.78	7.92	11.0	-3.08

Table 7-99. Bands 1, 2A, 2C Power Spectral Density Measurements CDD (RU52)

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

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Ant1 Power Density [dBm/MHz]	Ant2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	61	8/8.6 (MCS11)	1.61	1.86	4.75	11.0	-6.25
	5200	40	ax (20MHz)	242	61	8/8.6 (MCS11)	3.83	3.98	6.91	11.0	-4.09
	5240	48	ax (20MHz)	242	61	8/8.6 (MCS11)	3.58	3.72	6.66	11.0	-4.34
	5190	38	ax (40MHz)	484	65	8/8.6 (MCS11)	-3.11	-3.00	-0.04	11.0	-11.04
	5230	46	ax (40MHz)	484	65	8/8.6 (MCS11)	2.88	3.21	6.06	11.0	-4.94
	5210	42	ax (80MHz)	996	67	8/8.6 (MCS11)	-7.39	-7.03	-4.20	11.0	-15.20
Band 2A	5260	52	ax (20MHz)	242	61	8/8.6 (MCS11)	3.63	3.86	6.76	11.0	-4.24
	5280	60	ax (20MHz)	242	61	8/8.6 (MCS11)	4.04	3.84	6.95	11.0	-4.05
	5320	64	ax (20MHz)	242	61	8/8.6 (MCS11)	3.84	3.95	6.90	11.0	-4.10
	5270	54	ax (40MHz)	484	65	8/8.6 (MCS11)	3.32	3.56	6.45	11.0	-4.55
	5310	62	ax (40MHz)	484	65	8/8.6 (MCS11)	-2.26	-1.81	0.98	11.0	-10.02
	5290	58	ax (80MHz)	996	67	8/8.6 (MCS11)	-7.49	-7.31	-4.39	11.0	-15.39
Band 2C	5500	100	ax (20MHz)	242	61	8/8.6 (MCS11)	1.99	2.13	5.07	11.0	-5.93
	5580	116	ax (20MHz)	242	61	8/8.6 (MCS11)	4.08	3.80	6.96	11.0	-4.04
	5720	144	ax (20MHz)	242	61	8/8.6 (MCS11)	3.79	3.85	6.83	11.0	-4.17
	5510	102	ax (40MHz)	484	65	8/8.6 (MCS11)	-3.31	-3.19	-0.24	11.0	-11.24
	5550	110	ax (40MHz)	484	65	8/8.6 (MCS11)	3.81	3.03	6.45	11.0	-4.55
	*5590	118	ax (40MHz)	484	65	8/8.6 (MCS11)	3.85	3.48	6.68	11.0	-4.32
	5670	134	ax (40MHz)	484	65	8/8.6 (MCS11)	-1.07	-1.25	1.85	11.0	-9.15
	5710	142	ax (40MHz)	484	65	8/8.6 (MCS11)	3.67	3.55	6.62	11.0	-4.38
	5530	106	ax (80MHz)	996	67	8/8.6 (MCS11)	-6.18	-6.26	-3.21	11.0	-14.21
	*5610	122	ax (80MHz)	996	67	8/8.6 (MCS11)	-4.59	-4.70	-1.64	11.0	-12.64
	5690	138	ax (80MHz)	996	67	8/8.6 (MCS11)	1.86	1.86	4.87	11.0	-6.13

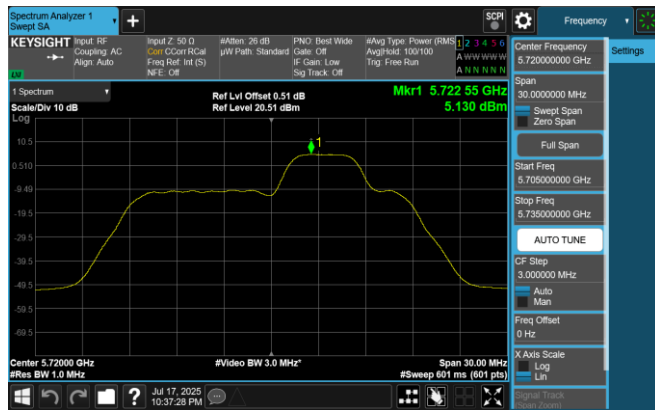
Table 7-100. Bands 1, 2A, 2C Power Spectral Density Measurements CDD (Fully-loaded RU)

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

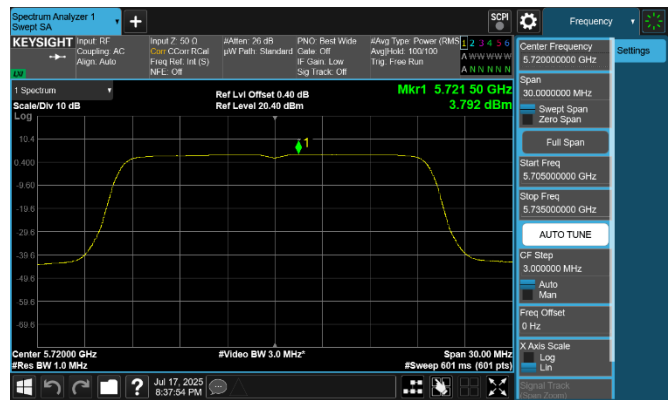
FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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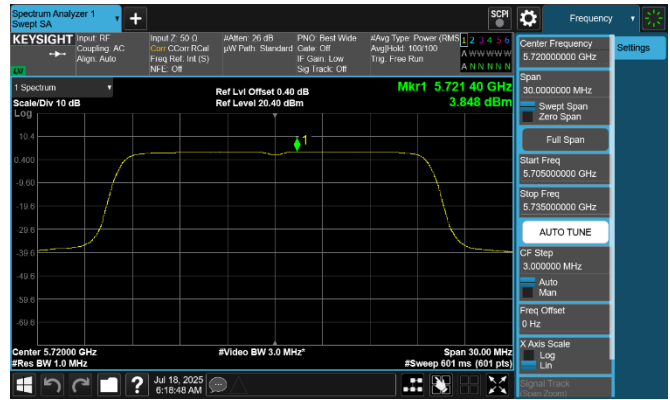
Plot 7-21. PSD CDD Ant1 (20MHz BW 11ax Index 39 – RU52 – Ch.144)



Plot 7-23. PSD CDD Ant1 (20MHz BW 11ax– RU242 – Ch.116)



Plot 7-22. PSD CDD Ant2 (20MHz BW 11ax Index 39 – RU52 – Ch.144)



Plot 7-24. PSD CDD Ant2 (20MHz BW 11ax– RU242 – Ch.116)

FCC ID: BCGA3416 IC: 579C-A3416			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Ant1 Power Density [dBm/500kHz]	Ant2 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26	0	8/8.6 (MCS11)	4.74	4.67	7.72	30.0	-22.28
				26	4	8/8.6 (MCS11)	4.66	4.09	7.39	30.0	-22.61
				26	8	8/8.6 (MCS11)	4.41	4.49	7.46	30.0	-22.54
	5785	157	ax (20MHz)	26	0	8/8.6 (MCS11)	4.55	4.82	7.70	30.0	-22.30
				26	4	8/8.6 (MCS11)	4.35	4.20	7.28	30.0	-22.72
				26	8	8/8.6 (MCS11)	4.33	4.60	7.48	30.0	-22.52
	5825	165	ax (20MHz)	26	0	8/8.6 (MCS11)	4.08	4.22	7.16	30.0	-22.84
				26	4	8/8.6 (MCS11)	4.13	4.06	7.10	30.0	-22.90
				26	8	8/8.6 (MCS11)	4.50	4.54	7.53	30.0	-22.47
	5755	151	ax (40MHz)	26	0	8/8.6 (MCS11)	4.52	4.57	7.55	30.0	-22.45
				26	8	8/8.6 (MCS11)	4.37	4.59	7.49	30.0	-22.51
				26	17	8/8.6 (MCS11)	4.64	4.36	7.51	30.0	-22.49
	5795	159	ax (40MHz)	26	0	8/8.6 (MCS11)	4.37	4.35	7.37	30.0	-22.63
				26	8	8/8.6 (MCS11)	4.54	4.61	7.58	30.0	-22.42
				26	17	8/8.6 (MCS11)	4.39	4.27	7.34	30.0	-22.66
	5775	155	ax (80MHz)	26	0	8/8.6 (MCS11)	4.69	4.37	7.54	30.0	-22.46
				26	18	8/8.6 (MCS11)	4.34	4.37	7.36	30.0	-22.64
				26	36	8/8.6 (MCS11)	4.59	4.65	7.63	30.0	-22.37

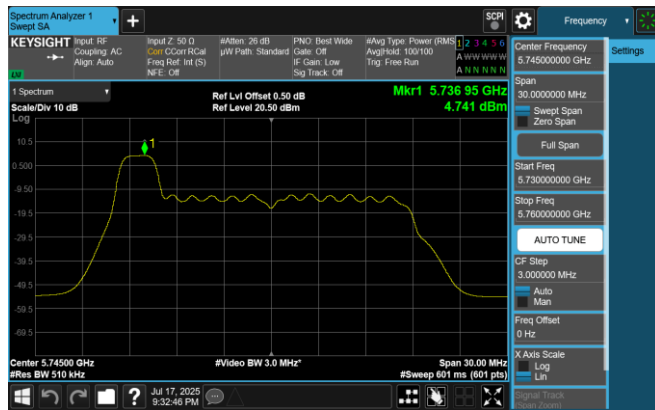
Table 7-101. Band 3 Power Spectral Density Measurements CDD (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Ant1 Power Density [dBm/500kHz]	Ant2 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242	61	8/8.6 (MCS11)	5.05	4.43	7.76	30.0	-22.24
	5785	157	ax (20MHz)	242	61	8/8.6 (MCS11)	4.71	4.74	7.74	30.0	-22.26
	5825	165	ax (20MHz)	242	61	8/8.6 (MCS11)	4.50	4.27	7.40	30.0	-22.60
	5755	151	ax (40MHz)	484	65	8/8.6 (MCS11)	1.06	1.00	4.04	30.0	-25.96
	5795	159	ax (40MHz)	484	65	8/8.6 (MCS11)	1.68	1.59	4.65	30.0	-25.35
	5775	155	ax (80MHz)	996	67	8/8.6 (MCS11)	-4.91	-5.01	-1.95	30.0	-31.95

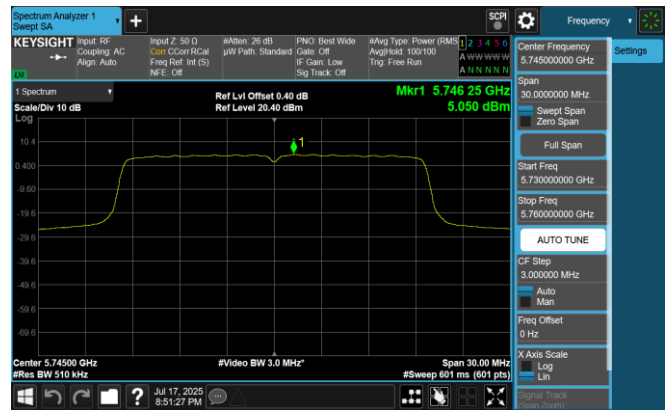
Table 7-102. Band 3 Power Spectral Density Measurements CDD (Fully-loaded RU)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-07.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 82 of 150

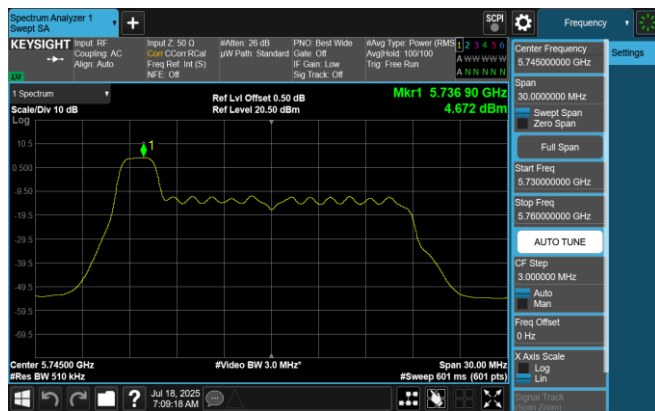
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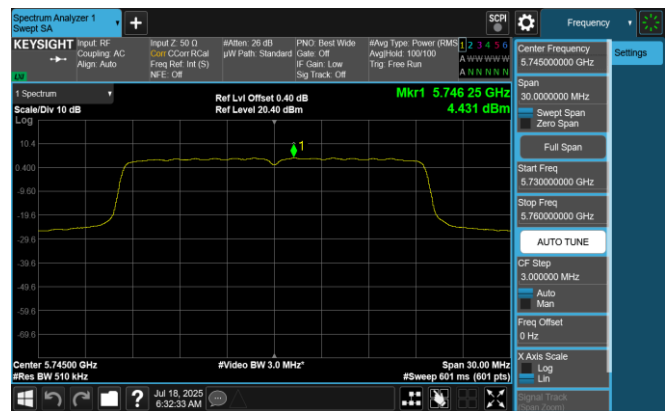
Plot 7-25. PSD CDD Ant1 (20MHz BW 11ax Index 0 - RU26 - Ch.149)



Plot 7-27. PSD CDD Ant1 (20MHz BW 11ax- RU242 - Ch.149)



Plot 7-26. PSD CDD Ant2 (20MHz BW 11ax Index 0 - RU26 - Ch.149)



Plot 7-28. PSD CDD Ant2 (20MHz BW 11ax- RU242 - Ch.165)

FCC ID: BCGA3416 IC: 579C-A3416			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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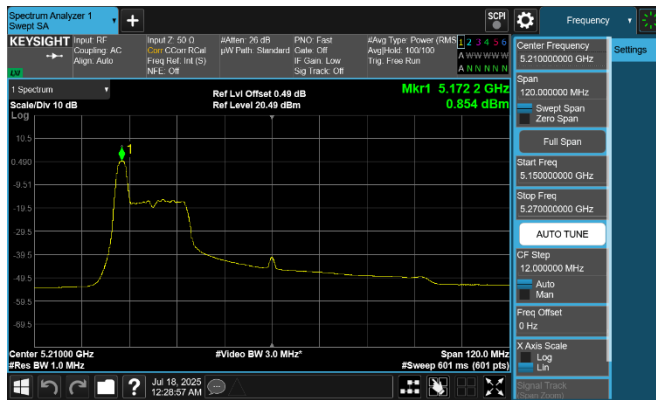
Frequency [MHz]	Channel No.	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Ant1 Power Density [dBm/MHz]	Ant2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
5180	36	ax (20MHz)	SDM	26	0	8/8.6 (MCS11)	0.59	-0.03	3.30	2.92	6.22	10.0	-3.78
				26	4	8/8.6 (MCS11)	-0.64	-0.82	2.28	2.92	5.20	10.0	-4.80
				26	8	8/8.6 (MCS11)	0.46	-0.27	3.12	2.92	6.04	10.0	-3.96
5200	40	ax (20MHz)	SDM	26	0	8/8.6 (MCS11)	-0.04	-0.22	2.88	2.92	5.80	10.0	-4.20
				26	4	8/8.6 (MCS11)	-0.53	-1.24	2.14	2.92	5.06	10.0	-4.94
				26	8	8/8.6 (MCS11)	-0.53	-0.13	2.68	2.92	5.60	10.0	-4.40
5240	48	ax (20MHz)	SDM	26	0	8/8.6 (MCS11)	0.50	-0.12	3.21	2.92	6.13	10.0	-3.87
				26	4	8/8.6 (MCS11)	-0.99	-1.01	2.01	2.92	4.93	10.0	-5.07
				26	8	8/8.6 (MCS11)	-0.08	0.01	2.98	2.92	5.90	10.0	-4.10
5190	38	ax (40MHz)	SDM	26	0	8/8.6 (MCS11)	0.23	-0.19	3.04	2.92	5.96	10.0	-4.04
				26	8	8/8.6 (MCS11)	-0.12	-0.25	2.83	2.92	5.74	10.0	-4.26
				26	17	8/8.6 (MCS11)	-0.51	-0.15	2.69	2.92	5.60	10.0	-4.40
5230	46	ax (40MHz)	SDM	26	0	8/8.6 (MCS11)	-0.33	-0.44	2.63	2.92	5.55	10.0	-4.45
				26	8	8/8.6 (MCS11)	-0.21	-0.23	2.79	2.92	5.71	10.0	-4.29
				26	17	8/8.6 (MCS11)	-0.12	-0.75	2.59	2.92	5.50	10.0	-4.50
5210	42	ax (80MHz)	SDM	26	0	8/8.6 (MCS11)	0.85	0.04	3.47	2.92	6.39	10.0	-3.61
				26	18	8/8.6 (MCS11)	-0.49	-1.50	2.04	2.92	4.96	10.0	-5.04
				26	36	8/8.6 (MCS11)	0.29	0.27	3.29	2.92	6.21	10.0	-3.79

Table 7-103. ISED Band 1 e.i.r.p. Power Spectral Density Measurements SDM (RU26)

Frequency [MHz]	Channel	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Ant1 Power Density [dBm/MHz]	Ant2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
5180	36	ax (20MHz)	SDM	242	61	8/8.6 (MCS11)	0.41	0.03	3.23	2.92	6.15	10.0	-3.85
5200	40	ax (20MHz)	SDM	242	61	8/8.6 (MCS11)	-0.06	0.15	3.06	2.92	5.97	10.0	-4.03
5240	48	ax (20MHz)	SDM	242	61	8/8.6 (MCS11)	-0.33	-0.11	2.79	2.92	5.71	10.0	-4.29
5190	38	ax (40MHz)	SDM	484	65	8/8.6 (MCS11)	-3.01	-2.76	0.12	2.92	3.04	10.0	-6.96
5230	46	ax (40MHz)	SDM	484	65	8/8.6 (MCS11)	-0.58	-0.42	2.52	2.92	5.43	10.0	-4.57
5210	42	ax (80MHz)	SDM	996	67	8/8.6 (MCS11)	-7.31	-7.05	-4.17	2.92	-1.25	10.0	-11.25

Table 7-104. ISED Band 1 e.i.r.p. Power Spectral Density Measurements SDM (Fully-loaded RU)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E1), the conducted powers at Ant1 and Ant2 were first measured separately during CDD/SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

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

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

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

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

Sample CDD/SDM Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 0.41 dBm for Ant1 and 0.03 dBm for Ant2.

$$\text{Ant1} + \text{Ant2} = \text{CDD/SDM}$$

$$(0.41 \text{ dBm} + 0.03 \text{ dBm}) = (1.099 \text{ mW} + 1.007 \text{ mW}) = 2.106 \text{ mW} = 3.23 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average MIMO conducted power was calculated to be 3.23 dBm with directional gain of 2.92 dBi.

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

$$3.23 \text{ dBm} + 2.92 \text{ dBi} = 6.15 \text{ dBm}$$

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6 Radiated Spurious Emission – Above 1GHz

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

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. RU26, 52 Tones, RU106, RU242, RU484, RU996 and RU996x2), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-105 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-105. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Subclauses 12.7.7, 12.7.6
KDB 789033 D02 v02r01 – Section G

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Test Settings

Average Field Strength Measurements

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

Peak Field Strength Measurements

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

Test Setup

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

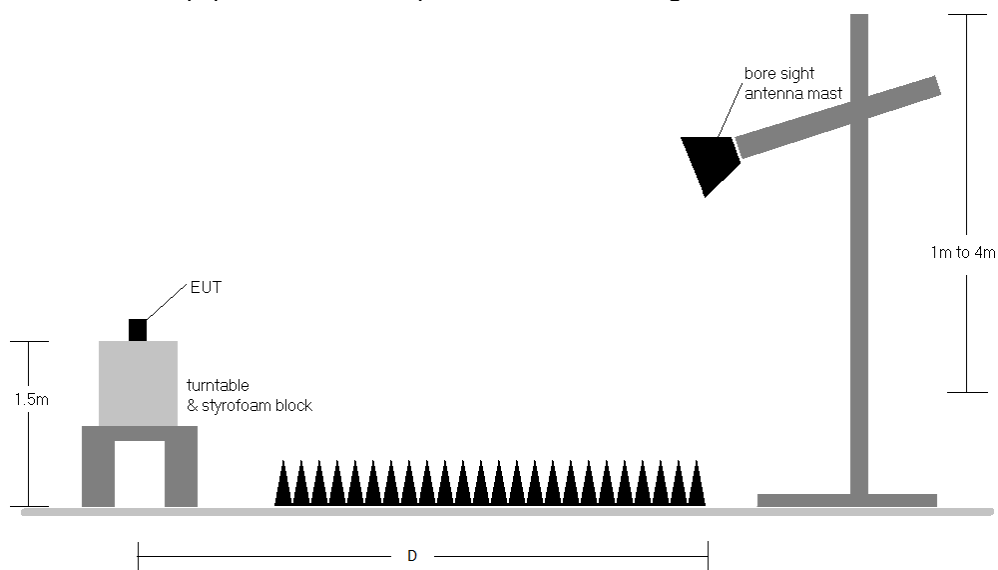


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-105.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-105. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. 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.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

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Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

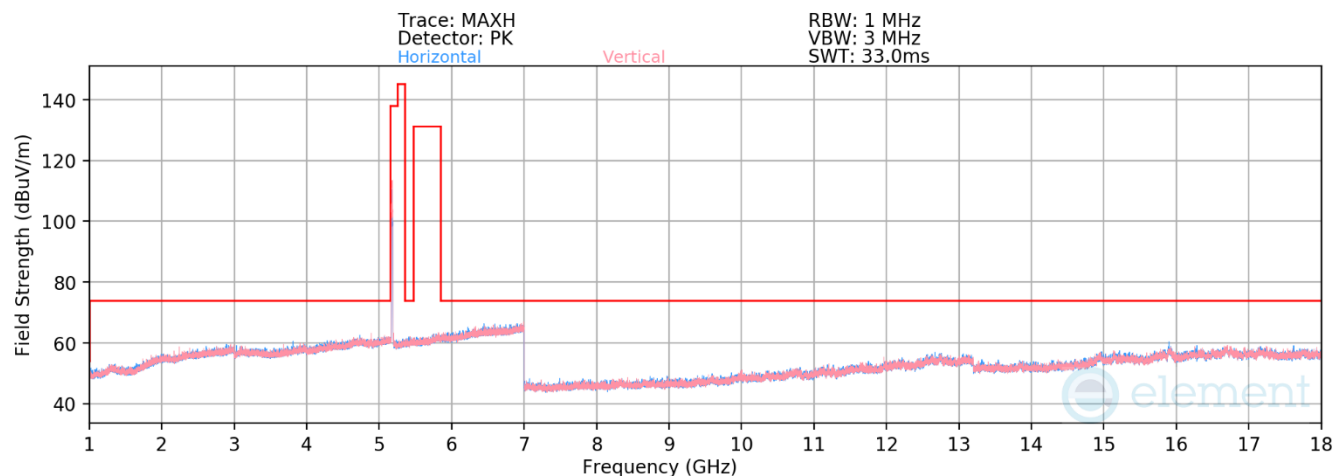
Radiated Band Edge Measurement Offset

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

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7.6.2 CDD Radiated Spurious Emissions RU26/52



Plot 7-33. RSE above 1GHz CDD (11ax – Ch.36 – RU26)

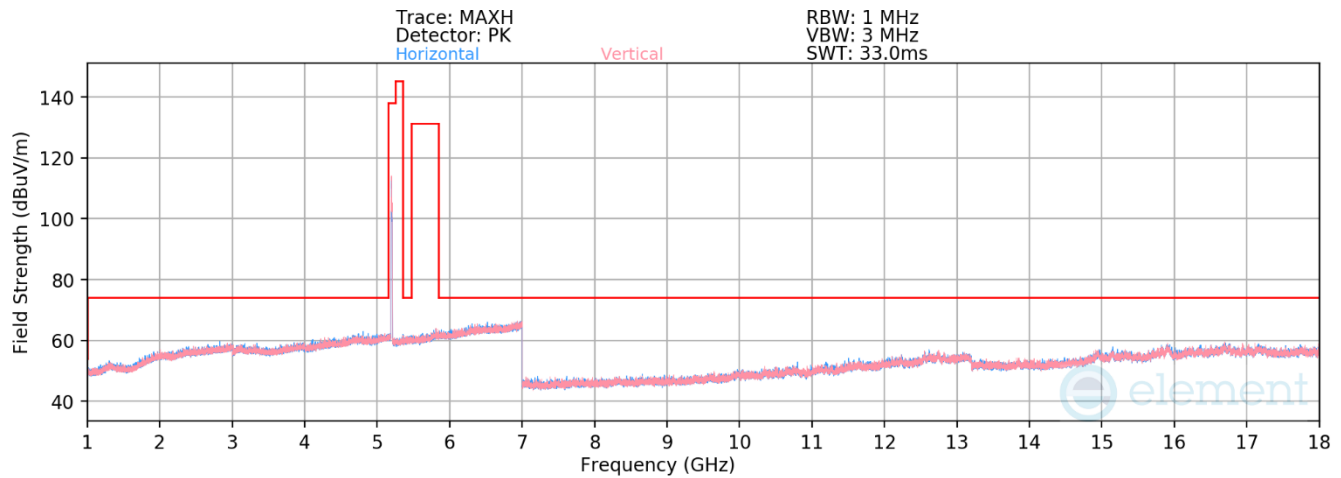
Mode: 802.11ax (20MHz BW)
Data Rate: MCS11
RU Index: 4
Distance of Measurements: 3 Meters
Operating Frequency: 5180MHz
Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10360.00	Peak	-	-	-	-71.02	15.08	51.06	68.20	-17.14
* 15540.00	Average	-	-	-	-84.35	22.77	45.42	53.98	-8.56
* 15540.00	Peak	-	-	-	-72.80	22.77	56.97	73.98	-17.01

Table 7-106. Radiated Measurements CDD (RU26)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-34. RSE above 1GHz CDD (11ax – Ch.40 – RU26)

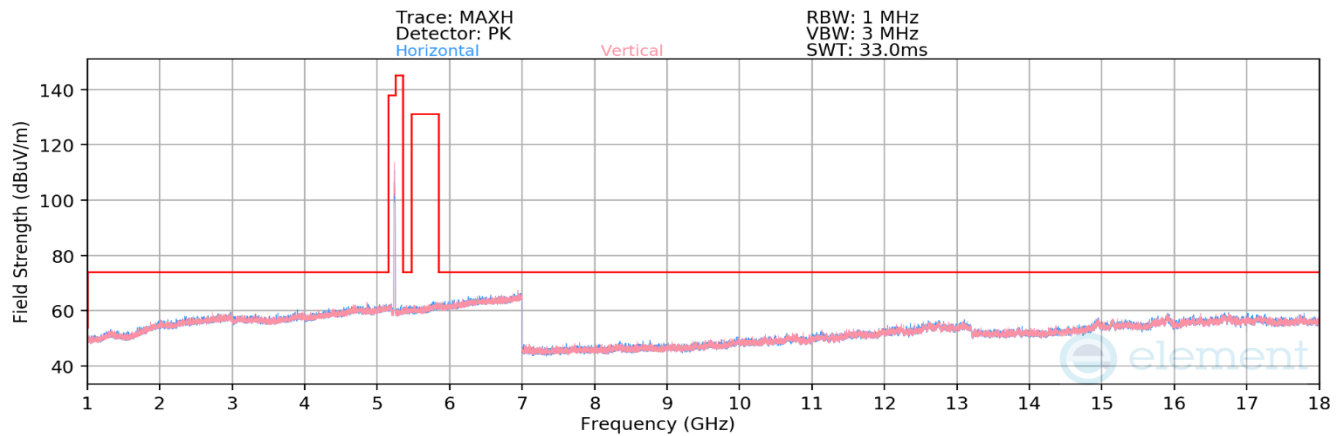
Mode: 802.11ax (20MHz BW)
Data Rate: MCS11
RU Index: 4
Distance of Measurements: 3 Meters
Operating Frequency: 5200MHz
Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10400.00	Peak	-	-	-	-71.44	14.94	50.50	68.20	-17.70
* 15600.00	Average	-	-	-	-83.84	22.18	45.34	53.98	-8.64
* 15600.00	Peak	-	-	-	-73.60	22.60	56.00	73.98	-17.98

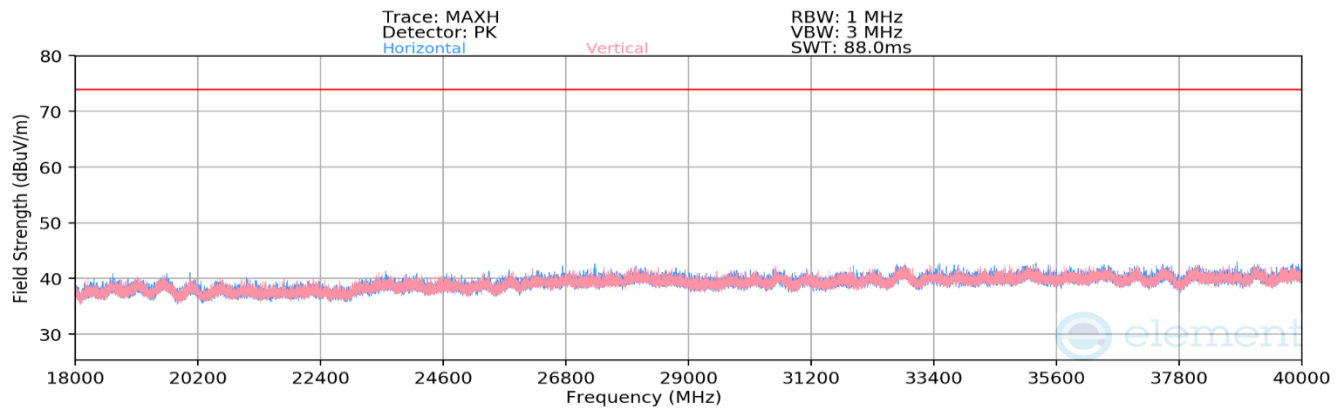
Table 7-107. Radiated Measurements CDD (RU26)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-35. RSE above 1GHz CDD (11ax - Ch.48 - RU26)



Plot 7-36. RSE 18GHz - 40 GHz CDD (11ax Ch.48 - RU26)

Mode:	802.11ax (20MHz BW)
Data Rate:	MCS11
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	5240MHz
Channel:	48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	-	-	-	-71.16	15.01	0.00	50.85	68.20	-17.35
* 15720.00	Average	-	-	-	-84.16	23.18	0.00	46.02	53.98	-7.96
* 15720.00	Peak	-	-	-	-72.53	23.18	0.00	57.65	73.98	-16.33
* 20960.00	Average	-	-	-	-61.10	-7.44	-9.54	28.92	53.98	-25.06
* 20960.00	Peak	-	-	-	-49.67	-7.53	-9.54	40.26	73.98	-33.72
26200.00	Peak	-	-	-	-49.90	-5.80	-9.54	41.76	68.20	-26.44
* 31440.00	Average	-	-	-	-63.99	-3.48	-9.54	29.99	53.98	-23.99
* 31440.00	Peak	-	-	-	-52.76	-3.48	-9.54	41.22	73.98	-32.76

Table 7-108. Radiated Measurements CDD (RU26)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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