

MEASUREMENT REPORT

FCC PART 15.407 / ISED RSS-247 UNII 802.11a/n/ac/ax(SU)

Applicant Name:

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

Date of Testing:

5/12/2025 - 07/30/2025

Test Report Issue Date:

9/12/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2505120065-06.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:

OFDM

FCC Classification:

Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-247 Issue 3

Test Procedure(s):

ANSI C63.10-2020, KDB 789033 D02 v02r01

KDB 662911 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2020 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

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



RJ Ortanez

Executive Vice President



FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 1 of 134

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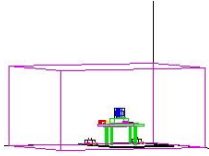
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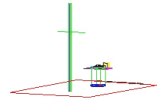
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MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				CDD/SDM	
				Ant1		Ant2		Summed	
				Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	802.11a/n	5180 - 5240	87.700	19.43	88.512	19.47	87.297	19.41
2A		802.11a/n	5260 - 5320	88.512	19.47	88.105	19.45	86.696	19.38
2C		802.11a/n	5500 - 5720	88.716	19.48	89.125	19.50	88.716	19.48
3		802.11a/n	5745 - 5825	99.312	19.97	100.000	20.00	194.536	22.89
1	40	802.11n	5190 - 5230	95.280	19.79	98.628	19.94	150.661	21.78
2A		802.11n	5270 - 5310	96.828	19.86	95.060	19.78	153.462	21.86
2C		802.11n	5510 - 5710	97.724	19.90	99.312	19.97	152.757	21.84
3		802.11n	5755 - 5795	96.161	19.83	97.499	19.89	190.546	22.80
1	80	802.11ac	5210	21.928	13.41	23.067	13.63	30.690	14.87
2A		802.11ac	5290	24.434	13.88	24.378	13.87	43.752	16.41
2C		802.11ac	5530 - 5690	94.624	19.76	99.541	19.98	194.089	22.88
3		802.11ac	5775	69.984	18.45	65.615	18.17	118.577	20.74
1	20	802.11ax (SU)	5180 - 5240	87.096	19.40	84.528	19.27	83.946	19.24
2A		802.11ax (SU)	5260 - 5320	88.920	19.49	87.498	19.42	87.096	19.40
2C		802.11ax (SU)	5500 - 5720	88.105	19.45	88.512	19.47	89.536	19.52
3		802.11ax (SU)	5745 - 5825	99.770	19.99	100.000	20.00	194.536	22.89
1	40	802.11ax (SU)	5190 - 5230	90.365	19.56	97.051	19.87	150.661	21.78
2A		802.11ax (SU)	5270 - 5310	93.756	19.72	92.045	19.64	154.882	21.90
2C		802.11ax (SU)	5510 - 5710	98.855	19.95	99.541	19.98	151.705	21.81
3		802.11ax (SU)	5755 - 5795	97.724	19.90	98.855	19.95	197.697	22.96
1	80	802.11ax (SU)	5210	17.140	12.34	16.943	12.29	26.730	14.27
2A		802.11ax (SU)	5290	20.654	13.15	20.324	13.08	37.411	15.73
2C		802.11ax (SU)	5530 - 5690	98.855	19.95	99.541	19.98	187.932	22.74
3		802.11ax (SU)	5775	60.534	17.82	60.534	17.82	92.257	19.65

FCC EUT Overview

UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				CDD/SDM	
				Ant1		Ant2		Summed	
				Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	802.11a/n	5180 - 5240	31.623	15.00	31.046	14.92	34.674	15.40
2A		802.11a/n	5260 - 5320	88.512	19.47	88.105	19.45	83.368	19.21
2C		802.11a/n	5500 - 5720	87.096	19.40	86.099	19.35	86.696	19.38
3		802.11a/n	5745 - 5825	99.312	19.97	100.000	20.00	194.536	22.89
1	40	802.11n	5190 - 5230	55.976	17.48	55.208	17.42	60.395	17.81
2A		802.11n	5270 - 5310	94.189	19.74	92.897	19.68	151.008	21.79
2C		802.11n	5510 - 5710	92.470	19.66	92.897	19.68	145.546	21.63
3		802.11n	5755 - 5795	92.045	19.64	97.499	19.89	187.932	22.74
1	80	802.11ac	5210	22.080	13.44	22.961	13.61	30.549	14.85
2A		802.11ac	5290	24.434	13.88	24.378	13.87	43.752	16.41
2C		802.11ac	5530 - 5690	92.897	19.68	94.624	19.76	194.089	22.88
3		802.11ac	5775	69.183	18.40	65.163	18.14	118.577	20.74
1	20	802.11ax (SU)	5180 - 5240	30.479	14.84	31.623	15.00	34.914	15.43
2A		802.11ax (SU)	5260 - 5320	88.920	19.49	87.498	19.42	87.096	19.40
2C		802.11ax (SU)	5500 - 5720	84.918	19.29	87.498	19.42	86.696	19.38
3		802.11ax (SU)	5745 - 5825	99.770	19.99	96.605	19.85	194.536	22.89
1	40	802.11ax (SU)	5190 - 5230	55.976	17.48	53.333	17.27	61.235	17.87
2A		802.11ax (SU)	5270 - 5310	91.411	19.61	89.331	19.51	152.757	21.84
2C		802.11ax (SU)	5510 - 5710	98.628	19.94	93.972	19.73	146.555	21.66
3		802.11ax (SU)	5755 - 5795	94.842	19.77	98.855	19.95	197.697	22.96
1	80	802.11ax (SU)	5210	17.022	12.31	17.498	12.43	26.730	14.27
2A		802.11ax (SU)	5290	20.654	13.15	20.324	13.08	37.411	15.73
2C		802.11ax (SU)	5530 - 5690	97.724	19.90	99.541	19.98	185.780	22.69
3		802.11ax (SU)	5775	60.534	17.82	60.534	17.82	92.257	19.65

ISED EUT Overview

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

1.1 Scope

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

1.2 Element Materials Technology Test Location

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

1.3 Test Facility / Accreditations

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple 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 802.11a/n/ac/ax(SU) 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, LE1M, LE2M, HDR4, HDR8, HDRp4, HDRp8)

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 ISSED.
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) 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:

802.11 Mode/Band	Duty Cycle [%]					
	Ant1		Ant2		CDD/SDM	
	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
^a (Low Data Rate)	97.50	0.11	97.50	0.11	97.72	0.10
^a (Mid Data Rate)	95.72	0.19	95.72	0.19	95.94	0.18
^a (High Data Rate)	92.26	0.35	92.26	0.35	92.04	0.36
n (HT20) (Low Data Rate)	96.61	0.15	96.61	0.15	94.19	0.26
n (HT20) (Mid Data Rate)	93.33	0.30	93.33	0.30	89.33	0.49
n (HT20) (High Data Rate)	90.99	0.41	90.99	0.41	86.30	0.64
ax(SU) (HE20) (Low Data Rate)	95.50	0.20	95.50	0.20	95.50	0.20
ax(SU) (HE20) (Mid Data Rate)	92.90	0.32	92.90	0.32	93.11	0.31
ax(SU) (HE20) (High Data Rate)	87.10	0.60	87.10	0.60	86.90	0.61
n (HT40) (Low Data Rate)	96.16	0.17	96.16	0.17	94.19	0.26
n (HT40) (Mid Data Rate)	93.11	0.31	93.11	0.31	90.16	0.45
n (HT40) (High Data Rate)	90.16	0.45	90.16	0.45	85.90	0.66
ax(SU) (HE40) (Low Data Rate)	95.50	0.20	95.50	0.20	95.50	0.20
ax(SU) (HE40) (Mid Data Rate)	92.47	0.34	92.47	0.34	92.90	0.32
ax(SU) (HE40) (High Data Rate)	85.31	0.69	85.31	0.69	87.10	0.60
ac (VHT80) (Low Data Rate)	95.50	0.20	95.50	0.20	93.33	0.30
ac (VHT80) (Mid Data Rate)	92.68	0.33	92.68	0.33	88.10	0.55
ac (VHT80) (High Data Rate)	87.10	0.60	87.10	0.60	82.99	0.81
ax(SU) (HE80) (Low Data Rate)	95.28	0.21	95.28	0.21	94.62	0.24
ax(SU) (HE80) (Mid Data Rate)	91.83	0.37	91.83	0.37	92.47	0.34
ax(SU) (HE80) (High Data Rate)	85.70	0.67	85.70	0.67	86.30	0.64

Table 2-4. Measured Duty Cycles

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

WiFi Configurations		SISO		CDD		SDM	
		Ant1	Ant2	Ant1	Ant2	Ant1	Ant2
5GHz	11a	✓	✓	✓	✓	✗	✗
	11n(20MHz)	✓	✓	✓	✓	✓	✓
	11ax(SU) (20MHz)	✓	✓	✓	✓	✓	✓
	11n(40MHz)	✓	✓	✓	✓	✓	✓
	11ax(SU) (40MHz)	✓	✓	✓	✓	✓	✓
	11ac(80MHz)	✓	✓	✓	✓	✓	✓
	11ax(SU) (80MHz)	✓	✓	✓	✓	✓	✓

Table 2-5. WIFI Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

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

802.11a 20MHz	MCS Index				Spatial Stream	OFDM (802.11n/802.11ac)				OFDM (802.11ac)				OFDM (802.11ax)											
						20MHz		40MHz		80MHz		160MHz		20MHz			40MHz			80MHz			160MHz		
	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI		0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI				
6	HT	VHT	HE		6.5	7.2	13.5	15	29.3	32.5	58.5	65	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3	Low rate
9	1	1	1	1	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	
12	2	2	2	1	19.5	21.7	40.5	45	87.8	97.5	175.5	195	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8	
18	3	3	3	1	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	Mid rate
24	4	4	4	1	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	
36	5	5	5	1	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	
48	6	6	6	1	58.5	65	121.5	135	263.3	292.5	526.5	585	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3	High Rate
54	7	7	7	1	65	72.2	135	150	292.5	325	585	650	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5	
-	-	8	8	1	-	-	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	
-	-	9	9	1	-	-	180	200	390	433.3	780	866.7	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7	
-	-	-	10	1	-	-	-	-	-	-	-	-	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8	
-	-	-	11	1	-	-	-	-	-	-	-	-	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8	
6	8	0	0	2	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	Low rate
9	9	1	1	2	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	
12	10	2	2	2	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	
18	11	3	3	2	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	Mid rate
24	12	4	4	2	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	
36	13	5	5	2	104	115.6	216	240	468	520	936	1040	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980	
48	14	6	6	2	117	130	243	270	526.5	585	1053	1170	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	High Rate
54	15	7	7	2	130	144.4	270	300	585	650	1170	1300	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	
-	-	8	8	2	156	173.3	324	360	702	780	1404	1560	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	
-	-	9	9	2	-	-	360	400	780	866.7	1560	1733.3	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3	
-	-	-	10	2	-	-	-	-	-	-	-	-	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5	
-	-	-	11	2	-	-	-	-	-	-	-	-	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7	

Table 2-6. Supported Data Rates

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

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/HDR4/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.

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	1.8
5.725 – 5.850	1.2	2.3

Table 2-8. Highest Antenna Gain

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2.4 Test Support Equipment

1	Apple Macbook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/ AD/DC Adapter	Model:	A2166	S/N:	C4H042705ZNP00WA6
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
6	Apple Airpod (Right)	Model:	A3047	S/N:	H5RHCP0080K
	Apple Airpod (Left)	Model:	A3048	S/N:	H5RHCP008SF
	Apple Airpod Charging Case	Model:	A2968	S/N:	F0G4GPHGWP

Table 2-9. Test Support Equipment List

2.5 Test Configuration

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

There are two vendors of 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 were reported.

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

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

For 802.11ax (OFDMA) test result, see separate UNII 802.11ax (OFDMA) report, 1C2505120065-07.

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, 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		PASS	Section 7.2, Section 7.3
15.407 (a.1.iv), (a.2), (a.3.i)	RSS-247 [6.2]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.4
15.407 (a.1.iv), (a.2), (a.3.i)	RSS-247 [6.2]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.4
15.407(h)	RSS-247 [6.3]	Dynamic Frequency Selection	See DFS Test Report	RADIATED	PASS	See DFS Test Report (1C25051200 65-08.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 7.5
15.205, 15.407(b.1), (b.2), (b.3), (b.4)	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.6, 7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	LINE CONDUCTED	PASS	Section 7.8

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “Conducted Automation,” Version 1.4.0.
- 5) For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “Chamber Automation,” Version 3.4.2.

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

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7.2.1 Ant1 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	a	24Mbps	16.59	20.50
	5200	40	a	24Mbps	16.58	20.65
	5240	48	a	24Mbps	16.58	20.50
	5180	36	n (20MHz)	MCS4	17.79	20.95
	5200	40	n (20MHz)	MCS2	17.77	21.05
	5240	48	n (20MHz)	MCS2	17.76	21.07
	5180	36	ax (SU) (20MHz)	MCS11	19.02	21.37
	5200	40	ax (SU) (20MHz)	MCS2	19.06	21.14
	5240	48	ax (SU) (20MHz)	MCS2	19.07	21.21
	5190	38	n (40MHz)	MCS7	36.51	41.36
	5230	46	n (40MHz)	MCS2	36.37	41.30
	5190	38	ax (SU) (40MHz)	MCS11	37.81	41.52
	5230	46	ax (SU) (40MHz)	MCS4	37.99	41.69
	5210	42	ac (80MHz)	MCS4	75.42	81.36
	5210	42	ax (SU) (80MHz)	MCS11	77.21	81.77
Band 2A	5260	52	a	24Mbps	16.58	20.59
	5300	60	a	24Mbps	16.57	20.31
	5320	64	a	24Mbps	16.58	20.25
	5260	52	n (20MHz)	MCS4	17.79	20.94
	5300	60	n (20MHz)	MCS2	17.76	20.98
	5320	64	n (20MHz)	MCS4	17.78	21.09
	5260	52	ax (SU) (20MHz)	MCS2	19.06	21.25
	5300	60	ax (SU) (20MHz)	MCS4	19.06	21.12
	5320	64	ax (SU) (20MHz)	MCS11	19.07	21.44
	5270	54	n (40MHz)	MCS2	36.35	41.39
	5310	62	n (40MHz)	MCS4	36.33	40.74
	5270	54	ax (SU) (40MHz)	MCS2	38.01	41.88
	5310	62	ax (SU) (40MHz)	MCS11	37.91	41.27
	5290	58	ac (80MHz)	MCS4	75.53	81.76
	5290	58	ax (SU) (80MHz)	MCS11	77.29	81.83
Band 2C	5500	100	a	24Mbps	16.57	20.38
	5580	116	a	24Mbps	16.60	20.38
	5720	144	a	24Mbps	16.58	20.39
	5500	100	n (20MHz)	MCS4	17.81	20.94
	5580	116	n (20MHz)	MCS4	17.78	20.94
	5720	144	n (20MHz)	MCS4	17.76	20.96
	5500	100	ax (SU) (20MHz)	MCS11	19.07	21.27
	5580	116	ax (SU) (20MHz)	MCS4	19.05	21.22
	5720	144	ax (SU) (20MHz)	MCS4	19.08	21.22
	5510	102	n (40MHz)	MCS4	36.56	41.46
	5550	110	n (40MHz)	MCS2	36.35	41.05
	5710	142	n (40MHz)	MCS2	36.42	41.12
	5510	102	ax (SU) (40MHz)	MCS11	37.95	41.21
	5550	110	ax (SU) (40MHz)	MCS2	37.99	41.68
	5710	142	ax (SU) (40MHz)	MCS2	37.99	41.61
	5530	106	ac (80MHz)	MCS9	76.04	81.85
	*5610	122	ac (80MHz)	MCS2	76.13	86.14
	5690	138	ac (80MHz)	MCS2	76.35	94.18
	5530	106	ax (SU) (80MHz)	MCS11	77.31	81.90
	*5610	122	ax (SU) (80MHz)	MCS2	77.44	82.18
	5690	138	ax (SU) (80MHz)	MCS2	77.55	93.84

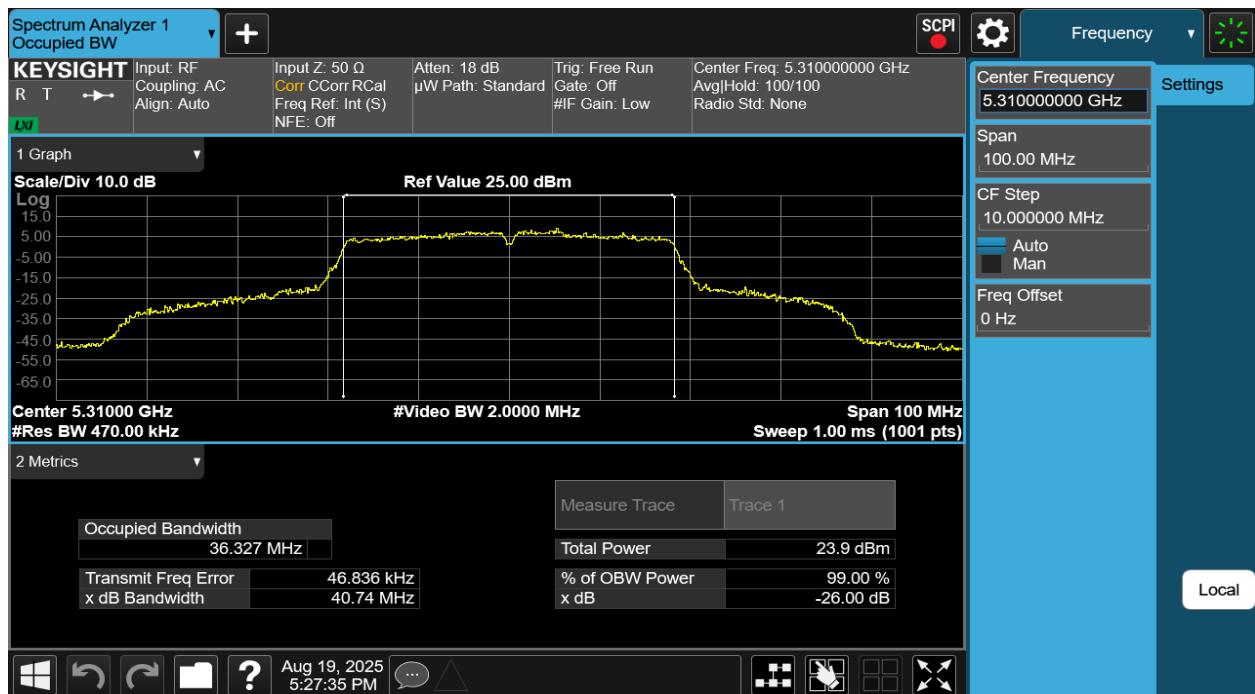
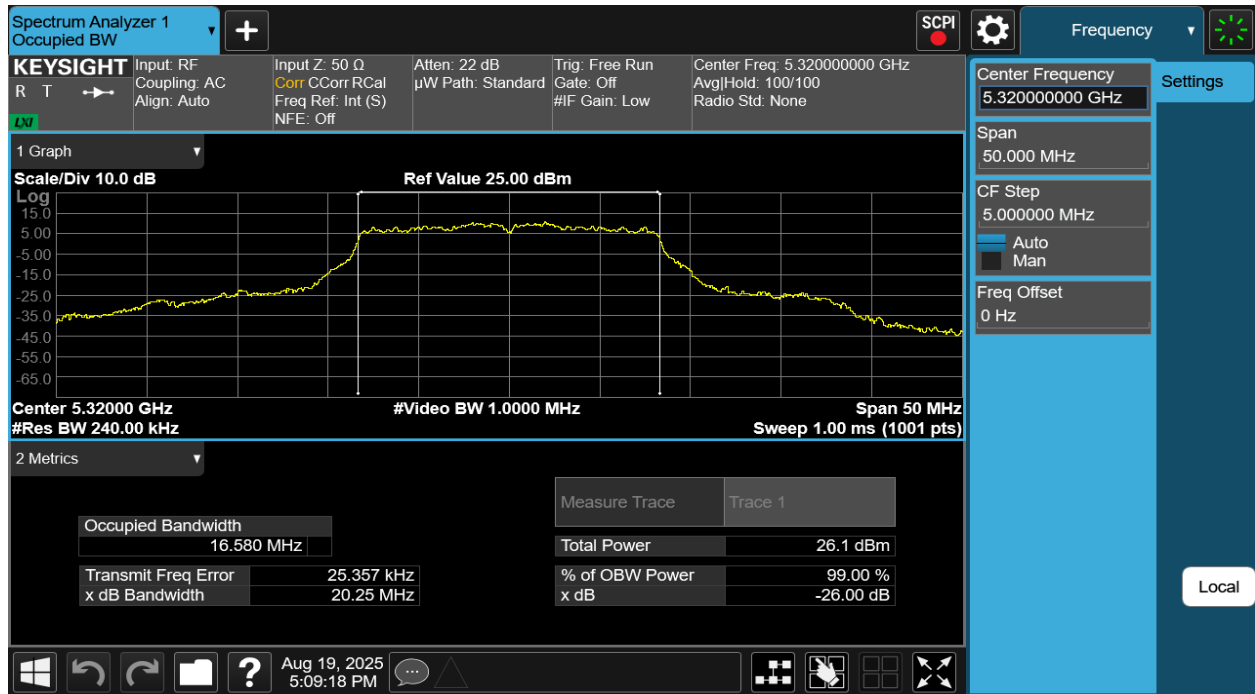
Table 7-2. Conducted Bandwidth Measurements Ant1

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

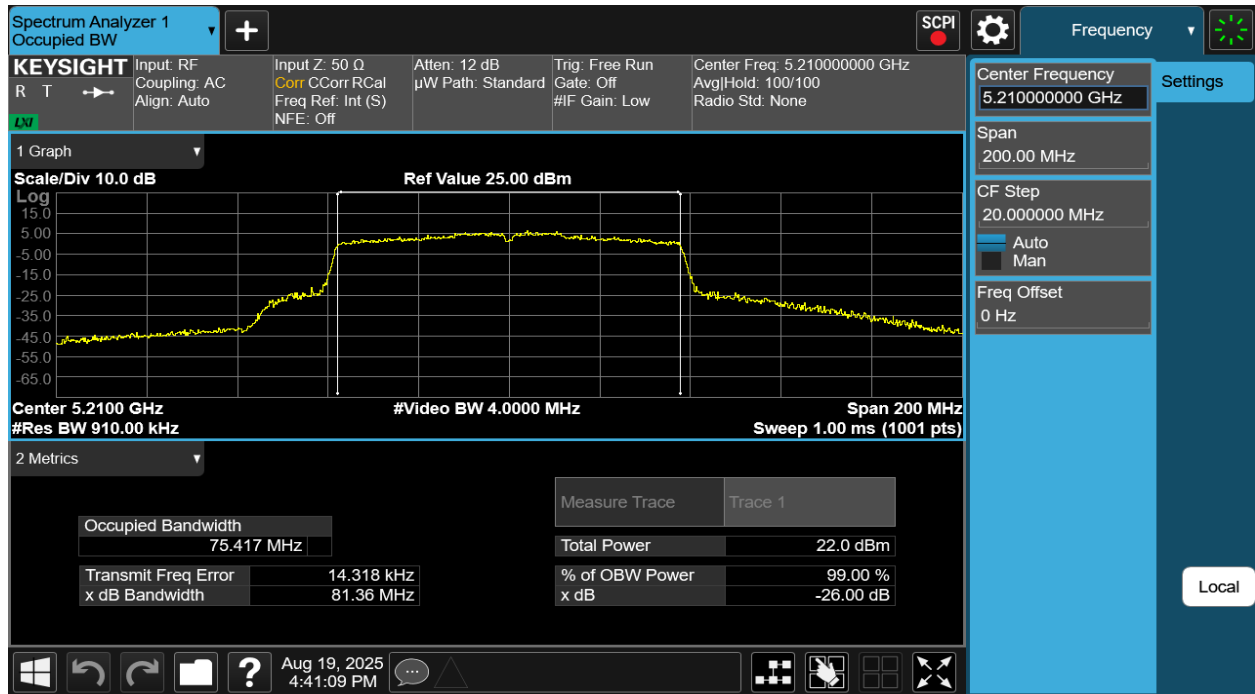
FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 17 of 134

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Plot 7-3 26dB BW & 99% OBW Ant1 (80MHz BW 802.11ac - Ch.42)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 19 of 134

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7.2.2 Ant2 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	a	54Mbps	16.74	20.85
	5200	40	a	12Mbps	17.10	26.00
	5240	48	a	12Mbps	16.91	22.17
	5180	36	n (20MHz)	MCS7	17.90	21.07
	5200	40	n (20MHz)	MCS2	18.17	26.40
	5240	48	n (20MHz)	MCS2	18.00	26.62
	5180	36	ax (SU) (20MHz)	MCS11	19.09	21.23
	5200	40	ax (SU) (20MHz)	MCS2	19.49	34.34
	5240	48	ax (SU) (20MHz)	MCS2	19.31	34.27
	5190	38	n (40MHz)	MCS7	36.53	41.38
	5230	46	n (40MHz)	MCS2	37.81	62.17
	5190	38	ax (SU) (40MHz)	MCS11	37.90	41.63
	5230	46	ax (SU) (40MHz)	MCS2	38.59	70.05
	5210	42	ac (80MHz)	MCS4	75.56	81.31
Band 2A	5210	42	ax (SU) (80MHz)	MCS11	77.13	82.18
	5260	52	a	12Mbps	16.75	21.62
	5300	60	a	12Mbps	16.85	22.25
	5320	64	a	54Mbps	16.89	21.05
	5260	52	n (20MHz)	MCS2	17.86	21.55
	5300	60	n (20MHz)	MCS4	18.03	23.48
	5320	64	n (20MHz)	MCS2	18.18	27.05
	5260	52	ax (SU) (20MHz)	MCS2	19.23	25.45
	5300	60	ax (SU) (20MHz)	MCS2	19.16	25.47
	5320	64	ax (SU) (20MHz)	MCS2	19.32	27.64
	5270	54	n (40MHz)	MCS2	36.94	51.31
	5310	62	n (40MHz)	MCS7	36.55	41.21
	5270	54	ax (SU) (40MHz)	MCS2	38.42	56.92
	5310	62	ax (SU) (40MHz)	MCS11	37.93	41.15
Band 2C	5290	58	ac (80MHz)	MCS9	75.82	81.44
	5290	58	ax (SU) (80MHz)	MCS4	77.27	82.03
	5500	100	a	24Mbps	16.60	20.45
	5580	116	a	12Mbps	16.68	21.05
	5720	144	a	12Mbps	16.65	20.96
	5500	100	n (20MHz)	MCS7	17.86	21.02
	5580	116	n (20MHz)	MCS4	17.84	21.42
	5720	144	n (20MHz)	MCS2	17.78	21.15
	5500	100	ax (SU) (20MHz)	MCS11	19.03	21.21
	5580	116	ax (SU) (20MHz)	MCS2	19.11	21.33
	5720	144	ax (SU) (20MHz)	MCS2	19.05	21.17
	5510	102	n (40MHz)	MCS7	36.49	41.47
	5550	110	n (40MHz)	MCS2	36.48	41.73
	5710	142	n (40MHz)	MCS4	36.60	41.17
	5510	102	ax (SU) (40MHz)	MCS11	37.90	41.06
	5550	110	ax (SU) (40MHz)	MCS2	38.11	42.63
	5710	142	ax (SU) (40MHz)	MCS2	38.02	41.67
	5530	106	ac (80MHz)	MCS4	75.60	81.27
	*5610	122	ac (80MHz)	MCS2	76.99	121.25
	5690	138	ac (80MHz)	MCS2	76.40	111.17
	5530	106	ax (SU) (80MHz)	MCS11	77.35	81.96
	*5610	122	ax (SU) (80MHz)	MCS2	77.97	131.50
	5690	138	ax (SU) (80MHz)	MCS2	77.75	105.96

Table 7-3. Conducted Bandwidth Measurements Ant2

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

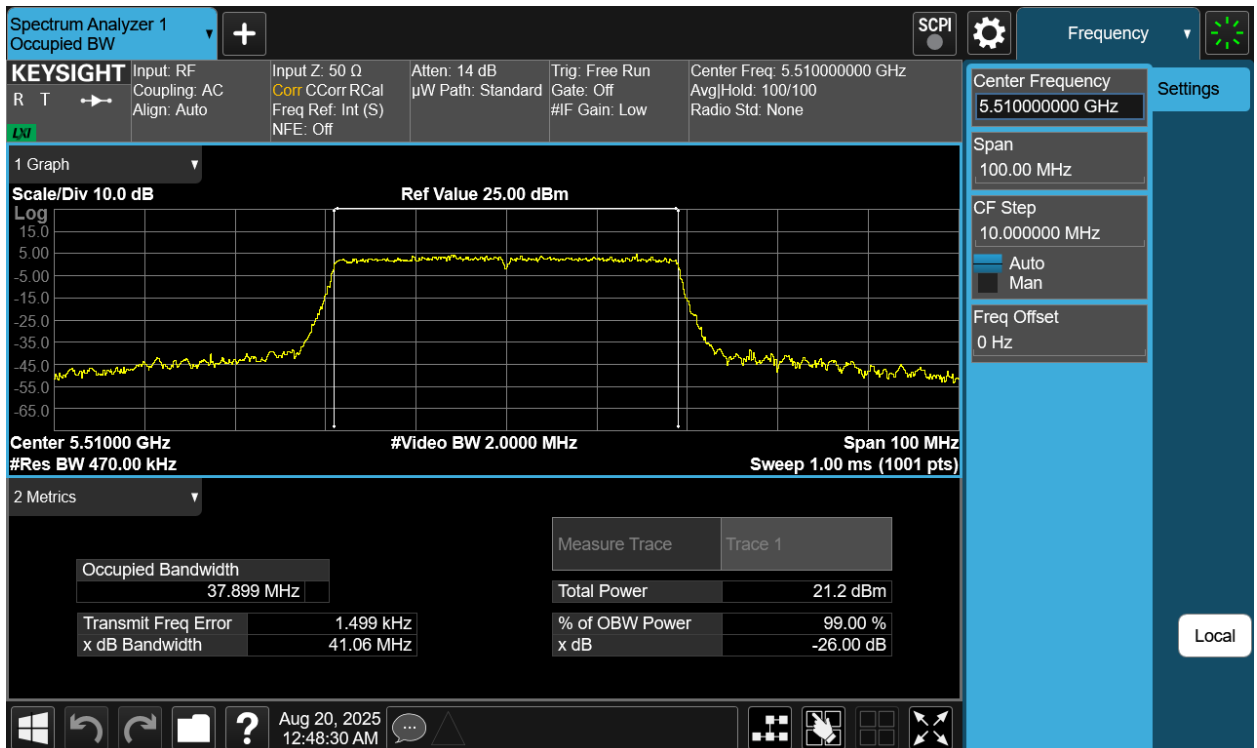
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 20 of 134

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Plot 7-4 26dB BW & 99% OBW Ant2 (20MHz BW 802.11a - Ch.100)



Plot 7-5 26dB BW & 99% OBW Ant2 (40MHz BW 802.11ax(SU) - Ch.102)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 21 of 134

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Plot 7-6 26dB BW & 99% OBW Ant2 (80MHz BW 802.11ac - Ch.106)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 22 of 134

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7.3 6dB & 99% Bandwidth Measurement

§2.1049; §15.407 (e); RSS-Gen [6.7]

Test Overview and Limit

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

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

Test Procedure Used

ANSI C63.10-2020 – Section 12.5.1
KDB 789033 D02 v02r01 – Section C

Test Settings

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

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

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

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Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 23 of 134

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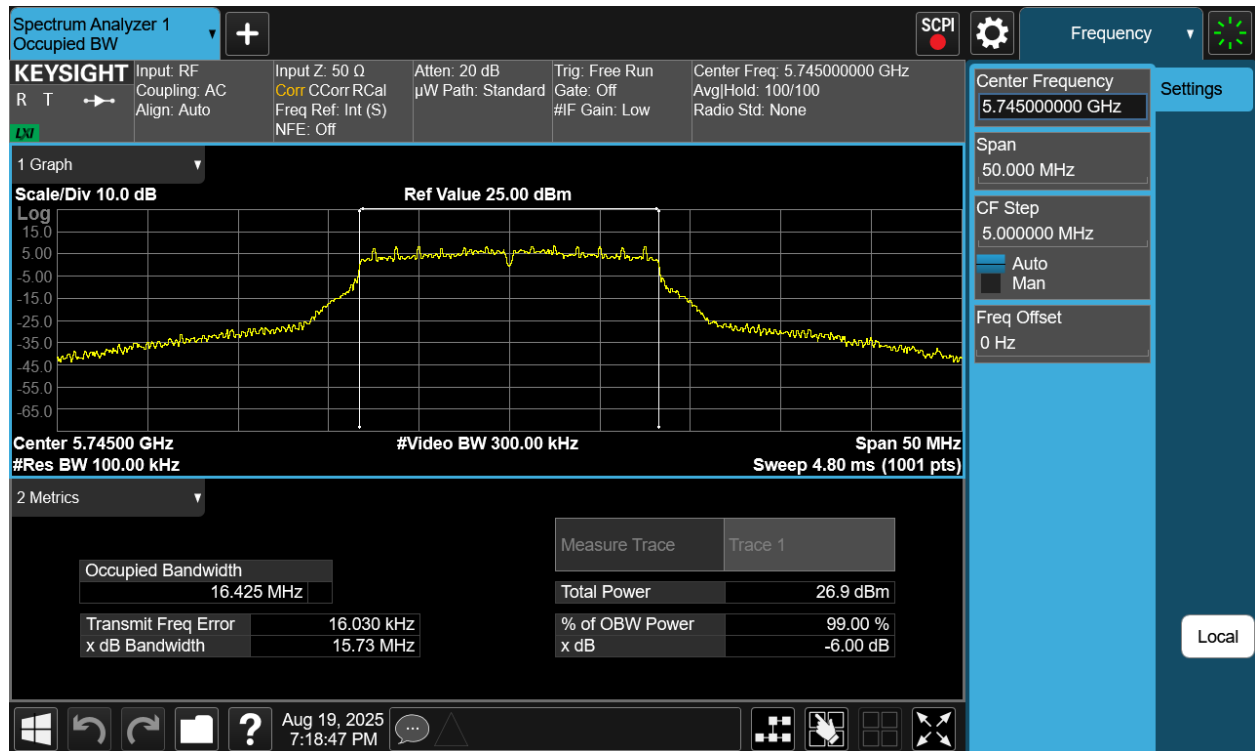
7.3.1 Ant1 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	a	12Mbps	16.42	15.73	0.50	Pass
	5785	157	a	12Mbps	16.43	16.05	0.50	Pass
	5825	165	a	12Mbps	16.47	16.07	0.50	Pass
	5745	149	n (20MHz)	MCS2	17.64	17.29	0.50	Pass
	5785	157	n (20MHz)	MCS2	17.66	17.25	0.50	Pass
	5825	165	n (20MHz)	MCS2	17.68	17.02	0.50	Pass
	5745	149	ax (SU) (20MHz)	MCS2	18.97	19.06	0.50	Pass
	5785	157	ax (SU) (20MHz)	MCS4	18.98	19.06	0.50	Pass
	5825	165	ax (SU) (20MHz)	MCS2	19.00	19.05	0.50	Pass
	5755	151	n (40MHz)	MCS2	36.08	35.87	0.50	Pass
	5795	159	n (40MHz)	MCS2	36.09	35.37	0.50	Pass
	5755	151	ax (SU) (40MHz)	MCS11	37.79	38.13	0.50	Pass
	5795	159	ax (SU) (40MHz)	MCS2	37.88	38.17	0.50	Pass
	5775	155	ac (80MHz)	MCS2	75.28	75.55	0.50	Pass
	5775	155	ax (SU) (80MHz)	MCS2	77.00	77.98	0.50	Pass

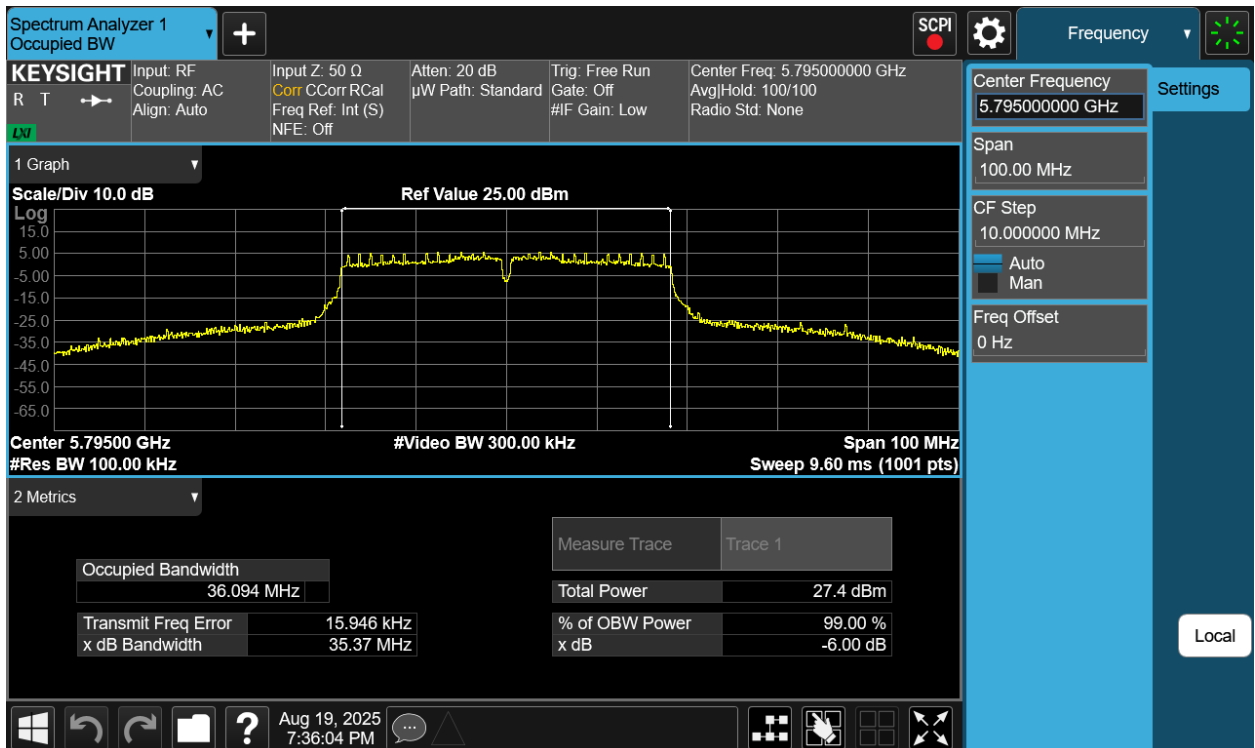
Table 7-4. Conducted Bandwidth Measurements Ant1

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-7 6dB BW & 99% OBW Ant1 (20MHz BW 802.11a - Ch.149)

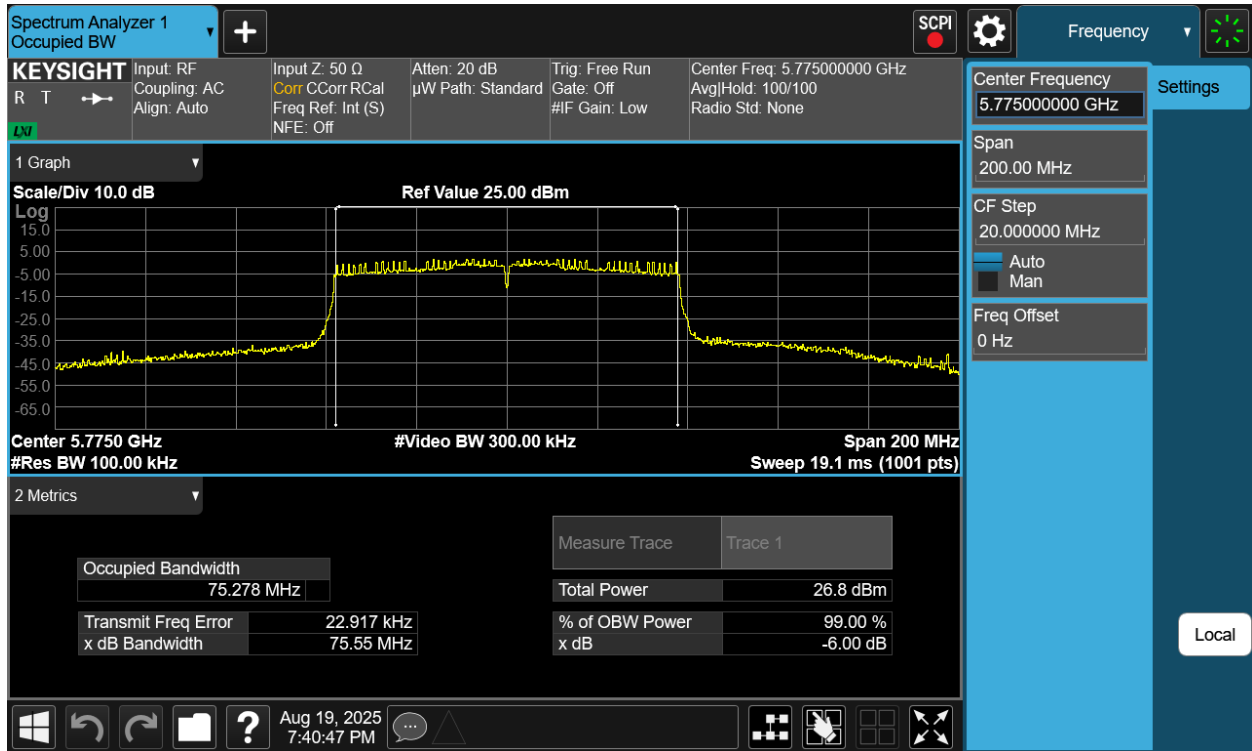


Plot 7-8 6dB BW & 99% OBW Ant1 (40MHz BW 802.11n - Ch.159)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 25 of 134

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Plot 7-9 6dB BW & 99% OBW Ant1 (80MHz BW 802.11ac - Ch.155)

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 26 of 134

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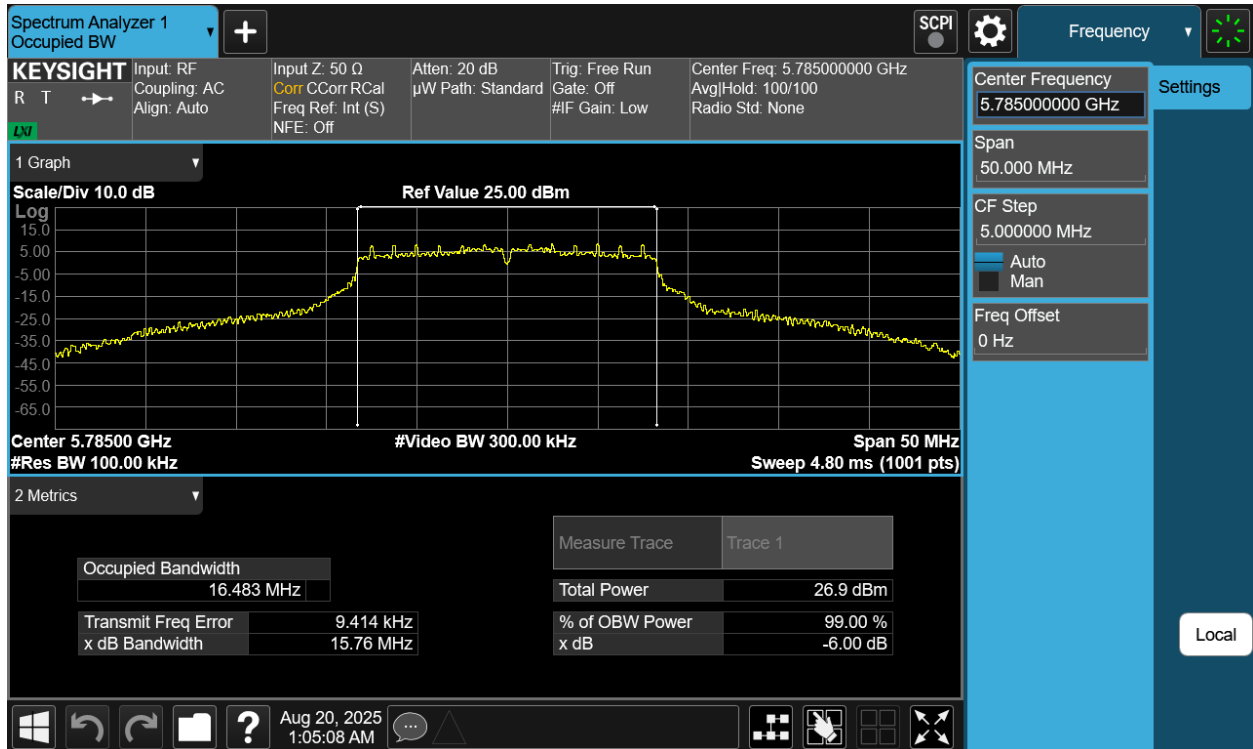
7.3.2 Ant2 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	a	12Mbps	16.45	15.96	0.50	Pass
	5785	157	a	12Mbps	16.48	15.76	0.50	Pass
	5825	165	a	12Mbps	16.54	16.06	0.50	Pass
	5745	149	n (20MHz)	MCS2	17.67	17.28	0.50	Pass
	5785	157	n (20MHz)	MCS2	17.73	17.23	0.50	Pass
	5825	165	n (20MHz)	MCS2	17.75	17.00	0.50	Pass
	5745	149	ax (SU) (20MHz)	MCS2	19.00	19.08	0.50	Pass
	5785	157	ax (SU) (20MHz)	MCS2	19.02	19.01	0.50	Pass
	5825	165	ax (SU) (20MHz)	MCS2	19.04	19.06	0.50	Pass
	5755	151	n (40MHz)	MCS2	36.12	35.51	0.50	Pass
	5795	159	n (40MHz)	MCS2	36.22	35.78	0.50	Pass
	5755	151	ax (SU) (40MHz)	MCS2	37.90	38.20	0.50	Pass
	5795	159	ax (SU) (40MHz)	MCS11	37.93	38.17	0.50	Pass
	5775	155	ac (80MHz)	MCS2	75.29	75.54	0.50	Pass
	5775	155	ax (SU) (80MHz)	MCS11	77.06	77.81	0.50	Pass

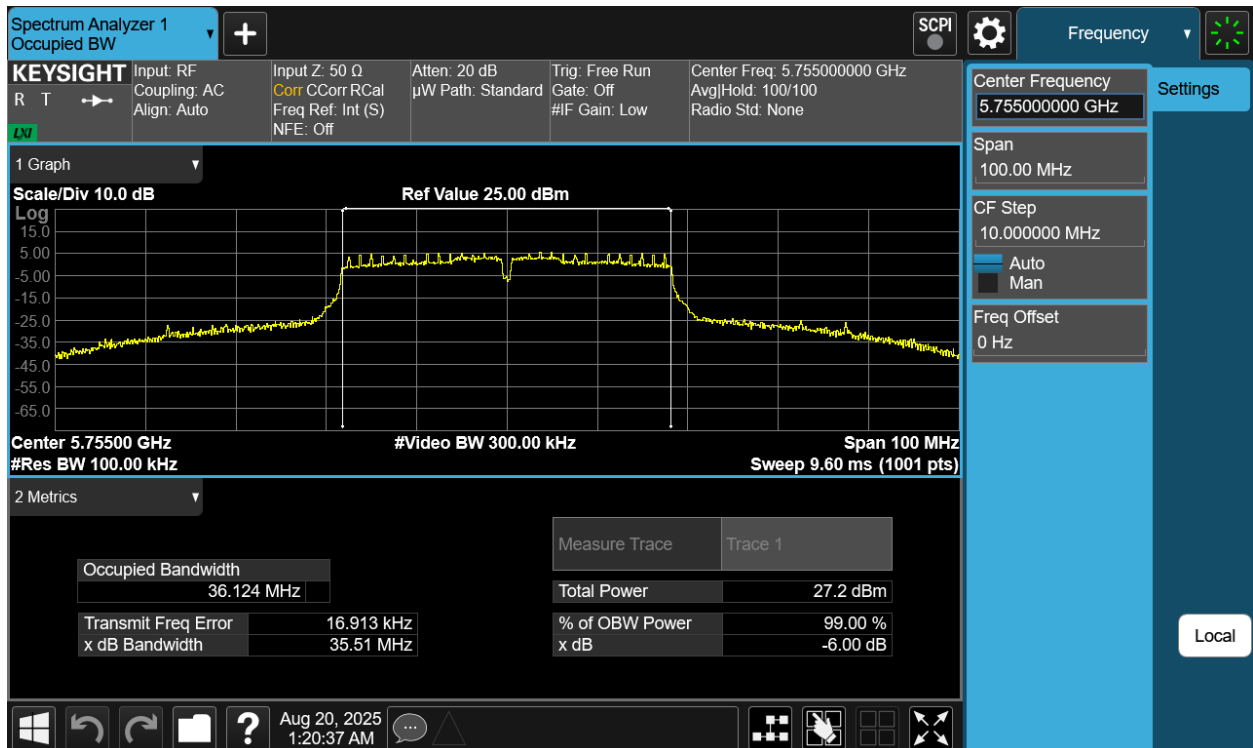
Table 7-5. Conducted Bandwidth Measurements Ant2

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-10 6dB BW & 99% OBW Ant2 (20MHz BW 802.11a - Ch.157)

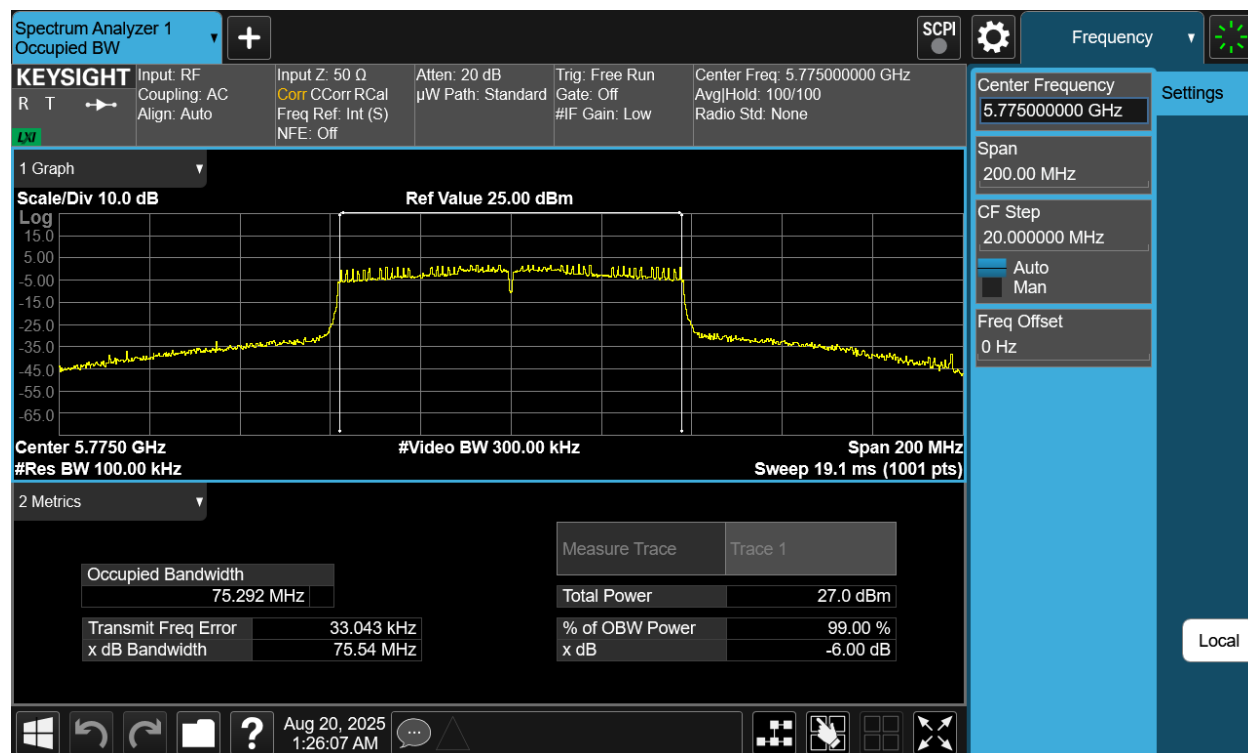


Plot 7-11 6dB BW & 99% OBW Ant2 (40MHz BW 802.11n - Ch.151)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 28 of 134

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Plot 7-12 6dB BW & 99% OBW Ant2 (80MHz BW 802.11ac - Ch.155)

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 ISED RSS-247 and 26dB BW is per FCC 15.407.

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

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

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

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

Test Procedure Used

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

Test Settings

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

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

- Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.

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

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	12Mbps	17.76	23.98	-6.22
	5200	40	12Mbps	19.36	23.98	-4.62
	5240	48	24Mbps	19.40	23.98	-4.58
	5260	52	24Mbps	19.32	23.98	-4.66
	5300	60	12Mbps	19.47	23.98	-4.51
	5320	64	12Mbps	18.82	23.98	-5.16
	5500	100	12Mbps	19.40	23.98	-4.58
	5520	104	12Mbps	19.35	23.98	-4.63
	5580	116	54Mbps	19.40	23.98	-4.58
	5680	136	12Mbps	19.48	23.98	-4.50
	5700	140	12Mbps	15.84	23.98	-8.14
	5720	144	24Mbps	19.34	23.98	-4.64
	5745	149	54Mbps	19.86	30.00	-10.14
	5785	157	12Mbps	19.61	30.00	-10.39
	5825	165	24Mbps	19.92	30.00	-10.08

Table 7-6. FCC Ant1 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	MCS2	17.86	23.98	-6.12
	5200	40	MCS7	19.34	23.98	-4.64
	5240	48	MCS7	19.43	23.98	-4.55
	5260	52	MCS4	19.27	23.98	-4.71
	5300	60	MCS2	19.37	23.98	-4.61
	5320	64	MCS2	18.73	23.98	-5.25
	5500	100	MCS2	19.19	23.98	-4.79
	5520	104	MCS2	19.24	23.98	-4.74
	5580	116	MCS7	19.40	23.98	-4.57
	5680	136	MCS2	19.14	23.98	-4.84
	5700	140	MCS2	15.71	23.98	-8.27
	5720	144	MCS7	19.35	23.98	-4.63
	5745	149	MCS4	19.82	30.00	-10.18
	5785	157	MCS2	19.97	30.00	-10.03
	5825	165	MCS7	19.90	30.00	-10.10

Table 7-7. FCC Ant1 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 31 of 134

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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	MCS2	17.29	23.98	-6.69
	5200	40	MCS4	19.38	23.98	-4.60
	5240	48	MCS11	19.40	23.98	-4.58
	5260	52	MCS2	19.49	23.98	-4.49
	5300	60	MCS2	19.29	23.98	-4.69
	5320	64	MCS2	18.05	23.98	-5.93
	5500	100	MCS2	18.94	23.98	-5.04
	5520	104	MCS2	19.31	23.98	-4.67
	5580	116	MCS4	19.35	23.98	-4.63
	5680	136	MCS2	19.28	23.98	-4.70
	5700	140	MCS2	19.45	23.98	-4.53
	5720	144	MCS4	19.29	23.98	-4.69
	5745	149	MCS2	19.87	30.00	-10.13
	5785	157	MCS4	19.99	30.00	-10.01
	5825	165	MCS4	19.84	30.00	-10.16

Table 7-8. FCC Ant1 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	MCS2	15.04	23.98	-8.94
	5230	46	MCS4	19.79	23.98	-4.19
	5270	54	MCS4	19.86	23.98	-4.12
	5310	62	MCS2	16.41	23.98	-7.57
	5510	102	MCS2	16.41	23.98	-7.57
	5550	110	MCS4	19.70	23.98	-4.28
	5590	118	MCS4	19.90	23.98	-4.08
	5670	134	MCS2	18.05	23.98	-5.93
	5710	142	MCS4	19.73	23.98	-4.25
	5755	151	MCS2	19.28	30.00	-10.72
	5795	159	MCS4	19.83	30.00	-10.17

Table 7-9. FCC Ant1 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 32 of 134

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	MCS2	14.20	23.98	-9.78
	5230	46	MCS2	19.56	23.98	-4.42
	5270	54	MCS11	19.72	23.98	-4.26
	5310	62	MCS2	15.41	23.98	-8.57
	5510	102	MCS2	15.99	23.98	-7.99
	5550	110	MCS2	19.94	23.98	-4.04
	5590	118	MCS4	19.95	23.98	-4.03
	5670	134	MCS2	17.87	23.98	-6.11
	5710	142	MCS4	19.88	23.98	-4.10
	5755	151	MCS11	19.90	30.00	-10.10
	5795	159	MCS2	19.77	30.00	-10.23

Table 7-10. FCC Ant1 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	MCS2	13.41	23.98	-10.57
	5290	58	MCS2	13.88	23.98	-10.10
	5530	106	MCS2	16.08	23.98	-7.90
	5610	122	MCS9	19.76	23.98	-4.22
	5690	138	MCS2	19.68	23.98	-4.30
	5775	155	MCS4	18.45	30.00	-11.55

Table 7-11. FCC Ant1 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	MCS2	12.34	23.98	-11.64
	5290	58	MCS2	13.15	23.98	-10.83
	5530	106	MCS2	15.81	23.98	-8.17
	5610	122	MCS4	19.95	23.98	-4.03
	5690	138	MCS2	19.90	23.98	-4.08
	5775	155	MCS2	17.82	30.00	-12.18

Table 7-12. FCC Ant1 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 33 of 134

7.4.2 ISED Ant1 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	54Mbps	14.79	-	-	3.30	18.09	23.01	-4.92
	5200	40	54Mbps	14.77	-	-	3.30	18.07	23.01	-4.94
	5240	48	54Mbps	14.77	-	-	3.30	18.07	23.01	-4.95
	5260	52	12Mbps	19.24	23.98	-4.74	3.40	22.64	30.00	-7.36
	5300	60	12Mbps	19.47	23.98	-4.51	3.40	22.87	30.00	-7.13
	5320	64	12Mbps	18.82	23.98	-5.16	3.40	22.22	30.00	-7.78
	5500	100	12Mbps	19.40	23.98	-4.58	2.60	22.00	30.00	-8.00
	5580	116	12Mbps	19.03	23.98	-4.95	2.60	21.63	30.00	-8.38
	5720	144	12Mbps	19.31	23.98	-4.67	2.60	21.91	30.00	-8.09
	5745	149	12Mbps	19.57	30.00	-10.43	1.20	20.77	-	-
	5785	157	12Mbps	19.61	30.00	-10.39	1.20	20.81	-	-
	5825	165	12Mbps	19.60	30.00	-10.40	1.20	20.80	-	-

Table 7-13. ISED Ant1 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	MCS4	15.00	-	-	3.30	18.30	23.01	-4.71
	5200	40	MCS7	14.95	-	-	3.30	18.25	23.01	-4.76
	5240	48	MCS4	14.97	-	-	3.30	18.27	23.01	-4.74
	5260	52	MCS2	19.18	23.98	-4.80	3.40	22.58	30.00	-7.43
	5300	60	MCS2	19.37	23.98	-4.61	3.40	22.77	30.00	-7.23
	5320	64	MCS2	18.73	23.98	-5.25	3.40	22.13	30.00	-7.87
	5500	100	MCS2	19.19	23.98	-4.79	2.60	21.79	30.00	-8.21
	5580	116	MCS2	19.27	23.98	-4.71	2.60	21.87	30.00	-8.13
	5720	144	MCS2	19.17	23.98	-4.81	2.60	21.77	30.00	-8.23
	5745	149	MCS2	19.67	30.00	-10.33	1.20	20.87	-	-
	5785	157	MCS2	19.97	30.00	-10.03	1.20	21.17	-	-
	5825	165	MCS2	19.84	30.00	-10.16	1.20	21.04	-	-

Table 7-14. ISED Ant1 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	MCS2	14.71	-	-	3.30	18.01	23.01	-5.00
	5200	40	MCS2	14.84	-	-	3.30	18.14	23.01	-4.87
	5240	48	MCS2	14.84	-	-	3.30	18.14	23.01	-4.87
	5260	52	MCS2	19.49	23.98	-4.49	3.40	22.89	30.00	-7.11
	5300	60	MCS2	19.29	23.98	-4.69	3.40	22.69	30.00	-7.32
	5320	64	MCS2	18.05	23.98	-5.93	3.40	21.45	30.00	-8.55
	5500	100	MCS2	18.94	23.98	-5.04	2.60	21.54	30.00	-8.46
	5580	116	MCS2	19.29	23.98	-4.69	2.60	21.89	30.00	-8.11
	5720	144	MCS2	19.19	23.98	-4.79	2.60	21.79	30.00	-8.21
	5745	149	MCS2	19.87	30.00	-10.13	1.20	21.07	-	-
	5785	157	MCS2	19.99	30.00	-10.01	1.20	21.19	-	-
	5825	165	MCS2	19.78	30.00	-10.22	1.20	20.98	-	-

Table 7-15. ISED Ant1 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	MCS2	15.01	-	-	3.30	18.31	23.01	-4.70
	5230	46	MCS2	17.48	-	-	3.30	20.78	23.01	-2.23
	5270	54	MCS2	19.74	23.98	-4.24	3.40	23.14	30.00	-6.86
	5310	62	MCS2	16.41	23.98	-7.57	3.40	19.81	30.00	-10.19
	5510	102	MCS2	16.41	23.98	-7.57	2.60	19.01	30.00	-10.99
	5550	110	MCS2	19.66	23.98	-4.32	2.60	22.26	30.00	-7.74
	5670	134	MCS2	18.05	23.98	-5.93	2.60	20.65	30.00	-9.35
	5710	142	MCS2	19.66	23.98	-4.32	2.60	22.26	30.00	-7.74
	5755	151	MCS2	19.28	30.00	-10.72	1.20	20.48	-	-
	5795	159	MCS2	19.64	30.00	-10.36	1.20	20.84	-	-

Table 7-16. ISED Ant1 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 34 of 134

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	MCS2	14.05	-	-	3.30	17.35	23.01	-5.66
	5230	46	MCS4	17.48	-	-	3.30	20.78	23.01	-2.23
	5270	54	MCS2	19.61	23.98	-4.37	3.40	23.01	30.00	-6.99
	5310	62	MCS2	15.41	23.98	-8.57	3.40	18.81	30.00	-11.19
	5510	102	MCS2	15.99	23.98	-7.99	2.60	18.59	30.00	-11.42
	5550	110	MCS2	19.94	23.98	-4.04	2.60	22.54	30.00	-7.46
	5670	134	MCS2	17.87	23.98	-6.11	2.60	20.47	30.00	-9.54
	5710	142	MCS2	19.81	23.98	-4.17	2.60	22.41	30.00	-7.59
	5755	151	MCS2	19.75	30.00	-10.25	1.20	20.95	-	-
	5795	159	MCS2	19.77	30.00	-10.23	1.20	20.97	-	-

Table 7-17. ISED Ant1 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	MCS2	13.44	-	-	3.30	16.74	23.01	-6.27
	5290	58	MCS2	13.88	23.98	-10.10	3.40	17.28	30.00	-12.72
	5530	106	MCS2	16.08	23.98	-7.90	2.60	18.68	30.00	-11.32
	5690	138	MCS2	19.68	23.98	-4.30	2.60	22.28	30.00	-7.72
	5775	155	MCS2	18.40	30.00	-11.60	1.20	19.60	-	-

Table 7-18. ISED Ant1 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	MCS2	12.31	-	-	3.30	15.61	23.01	-7.40
	5290	58	MCS2	13.15	23.98	-10.83	3.40	16.55	30.00	-13.45
	5530	106	MCS2	15.81	23.98	-8.17	2.60	18.41	30.00	-11.59
	5690	138	MCS2	19.90	23.98	-4.08	2.60	22.50	30.00	-7.50
	5775	155	MCS2	17.82	30.00	-12.18	1.20	19.02	-	-

Table 7-19. ISED Ant1 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

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

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	12Mbps	17.88	23.98	-6.10
	5200	40	54Mbps	19.33	23.98	-4.65
	5240	48	54Mbps	19.26	23.98	-4.72
	5260	52	54Mbps	19.35	23.98	-4.63
	5300	60	12Mbps	19.45	23.98	-4.53
	5320	64	12Mbps	18.81	23.98	-5.17
	5500	100	12Mbps	19.14	23.98	-4.84
	5520	104	12Mbps	19.28	23.98	-4.70
	5580	116	54Mbps	19.31	23.98	-4.67
	5680	136	12Mbps	19.36	23.98	-4.62
	5700	140	12Mbps	15.73	23.98	-8.25
	5720	144	54Mbps	19.28	23.98	-4.70
	5745	149	12Mbps	20.00	30.00	-10.01
	5785	157	12Mbps	19.91	30.00	-10.09
	5825	165	12Mbps	19.93	30.00	-10.08

Table 7-20. FCC Ant2 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	MCS2	18.05	23.98	-5.93
	5200	40	MCS4	19.47	23.98	-4.51
	5240	48	MCS4	19.37	23.98	-4.61
	5260	52	MCS2	19.39	23.98	-4.59
	5300	60	MCS4	19.23	23.98	-4.75
	5320	64	MCS2	18.91	23.98	-5.07
	5500	100	MCS2	19.22	23.98	-4.76
	5520	104	MCS2	19.35	23.98	-4.63
	5580	116	MCS4	19.49	23.98	-4.49
	5680	136	MCS2	19.19	23.98	-4.79
	5700	140	MCS2	15.84	23.98	-8.14
	5720	144	MCS7	19.50	23.98	-4.48
	5745	149	MCS7	19.94	30.00	-10.06
	5785	157	MCS2	19.98	30.00	-10.02
	5825	165	MCS4	19.96	30.00	-10.04

Table 7-21. FCC Ant2 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	MCS2	17.49	23.98	-6.49
	5200	40	MCS4	19.27	23.98	-4.71
	5240	48	MCS11	19.17	23.98	-4.81
	5260	52	MCS2	19.42	23.98	-4.56
	5300	60	MCS11	19.28	23.98	-4.70
	5320	64	MCS2	18.11	23.98	-5.87
	5500	100	MCS2	18.64	23.98	-5.34
	5520	104	MCS2	19.37	23.98	-4.61
	5580	116	MCS4	19.47	23.98	-4.51
	5680	136	MCS2	19.39	23.98	-4.59
	5700	140	MCS2	19.14	23.98	-4.84
	5720	144	MCS4	19.45	23.98	-4.53
	5745	149	MCS11	20.00	30.00	-10.00
	5785	157	MCS11	19.78	30.00	-10.22
	5825	165	MCS11	19.95	30.00	-10.05

Table 7-22. FCC Ant2 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	MCS2	14.97	23.98	-9.01
	5230	46	MCS7	19.94	23.98	-4.04
	5270	54	MCS4	19.78	23.98	-4.20
	5310	62	MCS2	16.47	23.98	-7.51
	5510	102	MCS2	16.28	23.98	-7.70
	5550	110	MCS7	19.95	23.98	-4.03
	5590	118	MCS4	19.66	23.98	-4.32
	5670	134	MCS2	18.30	23.98	-5.68
	5710	142	MCS7	19.97	23.98	-4.01
	5755	151	MCS2	19.31	30.00	-10.69
	5795	159	MCS2	19.89	30.00	-10.11

Table 7-23. FCC Ant2 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 37 of 134

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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	MCS2	13.91	23.98	-10.07
	5230	46	MCS2	19.87	23.98	-4.11
	5270	54	MCS11	19.64	23.98	-4.34
	5310	62	MCS2	15.71	23.98	-8.27
	5510	102	MCS2	15.99	23.98	-7.99
	5550	110	MCS4	19.90	23.98	-4.08
	5590	118	MCS11	19.98	23.98	-4.00
	5670	134	MCS2	17.91	23.98	-6.07
	5710	142	MCS11	19.75	23.98	-4.23
	5755	151	MCS2	19.95	30.00	-10.05
	5795	159	MCS2	19.76	30.00	-10.24

Table 7-24. FCC Ant2 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	MCS2	13.63	23.98	-10.35
	5290	58	MCS2	13.87	23.98	-10.11
	5530	106	MCS2	16.17	23.98	-7.81
	5610	122	MCS4	19.80	23.98	-4.18
	5690	138	MCS4	19.98	23.98	-4.00
	5775	155	MCS4	18.17	30.00	-11.83

Table 7-25. FCC Ant2 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	MCS2	12.29	23.98	-11.69
	5290	58	MCS2	13.08	23.98	-10.90
	5530	106	MCS2	15.78	23.98	-8.20
	5610	122	MCS11	19.85	23.98	-4.13
	5690	138	MCS2	19.98	23.98	-4.00
	5775	155	MCS2	17.82	30.00	-12.18

Table 7-26. FCC Ant2 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

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

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	24Mbps	14.71	-	-	2.50	17.21	23.01	-5.80
	5200	40	54Mbps	14.82	-	-	2.50	17.32	23.01	-5.69
	5240	48	12Mbps	14.92	-	-	2.50	17.42	23.01	-5.59
	5260	52	12Mbps	19.17	23.98	-4.81	2.30	21.47	30.00	-8.53
	5300	60	12Mbps	19.45	23.98	-4.53	2.30	21.75	30.00	-8.25
	5320	64	12Mbps	18.81	23.98	-5.17	2.30	21.11	30.00	-8.89
	5500	100	12Mbps	19.14	23.98	-4.84	1.80	20.94	30.00	-9.06
	5580	116	12Mbps	19.05	23.98	-4.93	1.80	20.85	30.00	-9.15
	5720	144	12Mbps	19.23	23.98	-4.75	1.80	21.03	30.00	-8.97
	5745	149	12Mbps	20.00	30.00	-10.01	2.30	22.30	-	-
	5785	157	12Mbps	19.91	30.00	-10.09	2.30	22.21	-	-
	5825	165	12Mbps	19.93	30.00	-10.08	2.30	22.23	-	-

Table 7-27. ISED Ant2 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	MCS7	14.91	-	-	2.50	17.41	23.01	-5.60
	5200	40	MCS4	14.92	-	-	2.50	17.42	23.01	-5.59
	5240	48	MCS4	14.79	-	-	2.50	17.29	23.01	-5.72
	5260	52	MCS2	19.39	23.98	-4.59	2.30	21.69	30.00	-8.31
	5300	60	MCS2	19.15	23.98	-4.83	2.30	21.45	30.00	-8.56
	5320	64	MCS2	18.91	23.98	-5.07	2.30	21.21	30.00	-8.79
	5500	100	MCS2	19.22	23.98	-4.76	1.80	21.02	30.00	-8.98
	5580	116	MCS2	19.35	23.98	-4.63	1.80	21.15	30.00	-8.85
	5720	144	MCS2	19.34	23.98	-4.64	1.80	21.14	30.00	-8.86
	5745	149	MCS2	19.72	30.00	-10.28	2.30	22.02	-	-
	5785	157	MCS2	19.98	30.00	-10.02	2.30	22.28	-	-
	5825	165	MCS2	19.66	30.00	-10.34	2.30	21.96	-	-

Table 7-28. ISED Ant2 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	MCS2	14.97	-	-	2.50	17.47	23.01	-5.54
	5200	40	MCS4	14.79	-	-	2.50	17.29	23.01	-5.72
	5240	48	MCS2	15.00	-	-	2.50	17.50	23.01	-5.51
	5260	52	MCS2	19.42	23.98	-4.56	2.30	21.72	30.00	-8.28
	5300	60	MCS2	19.25	23.98	-4.73	2.30	21.55	30.00	-8.45
	5320	64	MCS2	18.11	23.98	-5.87	2.30	20.41	30.00	-9.59
	5500	100	MCS2	18.64	23.98	-5.34	1.80	20.44	30.00	-9.56
	5580	116	MCS2	19.42	23.98	-4.56	1.80	21.22	30.00	-8.78
	5720	144	MCS2	19.38	23.98	-4.60	1.80	21.18	30.00	-8.82
	5745	149	MCS2	19.72	30.00	-10.28	2.30	22.02	-	-
	5785	157	MCS2	19.52	30.00	-10.48	2.30	21.82	-	-
	5825	165	MCS2	19.85	30.00	-10.15	2.30	22.15	-	-

Table 7-29. ISED Ant2 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	MCS2	15.13	-	-	2.50	17.63	23.01	-5.38
	5230	46	MCS4	17.42	-	-	2.50	19.92	23.01	-3.10
	5270	54	MCS2	19.68	23.98	-4.30	2.30	21.98	30.00	-8.02
	5310	62	MCS2	16.47	23.98	-7.51	2.30	18.77	30.00	-11.23
	5510	102	MCS2	16.28	23.98	-7.70	1.80	18.08	30.00	-11.92
	5550	110	MCS2	19.57	23.98	-4.41	1.80	21.37	30.00	-8.63
	5670	134	MCS2	18.30	23.98	-5.68	1.80	20.10	30.00	-9.90
	5710	142	MCS2	19.68	23.98	-4.30	1.80	21.48	30.00	-8.52
	5755	151	MCS2	19.31	30.00	-10.69	2.30	21.61	-	-
	5795	159	MCS2	19.89	30.00	-10.11	2.30	22.19	-	-

Table 7-30. ISED Ant2 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	MCS2	14.03	-	-	2.50	16.53	23.01	-6.48
	5230	46	MCS11	17.27	-	-	2.50	19.77	23.01	-3.24
	5270	54	MCS2	19.51	23.98	-4.47	2.30	21.81	30.00	-8.19
	5310	62	MCS2	15.71	23.98	-8.27	2.30	18.01	30.00	-11.99
	5510	102	MCS2	15.99	23.98	-7.99	1.80	17.79	30.00	-12.21
	5550	110	MCS2	19.60	23.98	-4.38	1.80	21.40	30.00	-8.60
	5670	134	MCS2	17.91	23.98	-6.07	1.80	19.71	30.00	-10.29
	5710	142	MCS2	19.73	23.98	-4.25	1.80	21.53	30.00	-8.47
	5755	151	MCS2	19.95	30.00	-10.05	2.30	22.25	-	-
	5795	159	MCS2	19.76	30.00	-10.24	2.30	22.06	-	-

Table 7-31. ISED Ant2 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	MCS2	13.61	-	-	2.50	16.11	23.01	-6.90
	5290	58	MCS2	13.87	23.98	-10.11	2.30	16.17	30.00	-13.83
	5530	106	MCS2	16.17	23.98	-7.81	1.80	17.97	30.00	-12.03
	5690	138	MCS2	19.76	23.98	-4.22	1.80	21.56	30.00	-8.44
	5775	155	MCS2	18.14	30.00	-11.86	2.30	20.44	-	-

Table 7-32. ISED Ant2 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	MCS2	12.43	-	-	2.50	14.93	23.01	-8.08
	5290	58	MCS2	13.08	23.98	-10.90	2.30	15.38	30.00	-14.62
	5530	106	MCS2	15.78	23.98	-8.20	1.80	17.58	30.00	-12.42
	5690	138	MCS2	19.98	23.98	-4.00	1.80	21.78	30.00	-8.22
	5775	155	MCS2	17.82	30.00	-12.18	2.30	20.12	-	-

Table 7-33. ISED Ant2 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.5 FCC CDD Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5180	36	CDD	MCS10	16.00	16.20	19.11	23.98	-4.87
	5200	40	CDD	MCS10	16.33	16.48	19.41	23.98	-4.57
	5240	48	CDD	MCS10	16.40	16.33	19.37	23.98	-4.61
	5260	52	CDD	MCS12	16.22	16.27	19.25	23.98	-4.73
	5300	60	CDD	MCS12	16.34	16.40	19.38	23.98	-4.60
	5320	64	CDD	MCS15	16.22	16.12	19.18	23.98	-4.80
	5500	100	CDD	MCS12	16.16	16.48	19.34	23.98	-4.64
	5520	104	CDD	MCS10	16.24	16.38	19.41	23.98	-4.57
	5580	116	CDD	MCS12	16.50	16.44	19.48	23.98	-4.50
	5680	136	CDD	MCS10	16.24	16.37	19.40	23.98	-4.58
	5700	140	CDD	MCS10	15.91	15.84	18.87	23.98	-5.11
	5720	144	CDD	MCS12	16.34	16.47	19.41	23.98	-4.57
	5745	149	CDD	MCS10	19.79	19.95	22.88	30.00	-7.12
	5785	157	CDD	MCS10	19.97	19.79	22.89	30.00	-7.11
	5825	165	CDD	MCS10	19.80	19.80	22.81	30.00	-7.19

Table 7-34. FCC CDD 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5180	36	CDD	MCS2	14.82	15.00	17.92	23.98	-6.06
	5200	40	CDD	MCS11	16.22	16.25	19.24	23.98	-4.74
	5240	48	CDD	MCS11	16.27	16.18	19.24	23.98	-4.74
	5260	52	CDD	MCS4	16.49	16.26	19.38	23.98	-4.60
	5300	60	CDD	MCS2	16.48	16.30	19.40	23.98	-4.58
	5320	64	CDD	MCS2	16.49	16.03	19.28	23.98	-4.70
	5500	100	CDD	MCS2	16.37	16.37	19.38	23.98	-4.60
	5520	104	CDD	MCS2	16.48	16.49	19.52	23.98	-4.46
	5580	116	CDD	MCS2	16.42	16.19	19.32	23.98	-4.66
	5680	136	CDD	MCS2	16.27	16.41	19.43	23.98	-4.55
	5700	140	CDD	MCS2	15.97	15.68	18.77	23.98	-5.21
	5720	144	CDD	MCS2	16.32	16.27	19.31	23.98	-4.67
	5745	149	CDD	MCS2	19.81	19.96	22.89	30.00	-7.11
	5785	157	CDD	MCS2	19.84	19.80	22.83	30.00	-7.17
	5825	165	CDD	MCS11	19.68	19.91	22.80	30.00	-7.20

Table 7-35. FCC CDD 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5190	38	CDD	MCS10	14.90	14.70	17.81	23.98	-6.17
	5230	46	CDD	MCS10	18.54	18.98	21.78	23.98	-2.20
	5270	54	CDD	MCS12	18.73	18.96	21.86	23.98	-2.12
	5310	62	CDD	MCS10	15.89	15.96	18.93	23.98	-5.05
	5510	102	CDD	MCS10	15.93	15.59	18.78	23.98	-5.20
	5550	110	CDD	MCS12	18.56	18.92	21.76	23.98	-2.22
	5590	118	CDD	MCS12	18.77	18.88	21.84	23.98	-2.14
	5670	134	CDD	MCS10	18.23	18.05	21.15	23.98	-2.83
	5710	142	CDD	MCS12	18.58	18.87	21.74	23.98	-2.24
	5755	151	CDD	MCS10	19.26	19.14	22.21	30.00	-7.79
	5795	159	CDD	MCS12	19.70	19.87	22.80	30.00	-7.20

Table 7-36. FCC CDD 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5190	38	CDD	MCS2	13.08	13.08	16.09	23.98	-7.89
	5230	46	CDD	MCS2	18.96	18.58	21.78	23.98	-2.20
	5270	54	CDD	MCS4	18.85	18.93	21.90	23.98	-2.08
	5310	62	CDD	MCS2	14.29	14.73	17.52	23.98	-6.46
	5510	102	CDD	MCS4	14.56	14.62	17.60	23.98	-6.38
	5550	110	CDD	MCS2	18.58	18.73	21.66	23.98	-2.32
	5590	118	CDD	MCS2	18.79	18.81	21.81	23.98	-2.17
	5670	134	CDD	MCS2	18.02	18.04	21.04	23.98	-2.94
	5710	142	CDD	MCS4	18.73	18.77	21.76	23.98	-2.22
	5755	151	CDD	MCS2	19.96	19.94	22.96	30.00	-7.04
	5795	159	CDD	MCS2	19.76	19.67	22.72	30.00	-7.28

Table 7-37. FCC CDD 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5210	42	CDD	MCS2	11.89	11.82	14.87	23.98	-9.11
	5290	58	CDD	MCS2	13.40	13.39	16.41	23.98	-7.57
	5530	106	CDD	MCS2	14.63	14.69	17.67	23.98	-6.31
	5610	122	CDD	MCS2	19.39	19.37	22.39	23.98	-1.59
	5690	138	CDD	MCS2	19.91	19.84	22.88	23.98	-1.10
	5775	155	CDD	MCS2	17.85	17.60	20.74	30.00	-9.26

Table 7-38. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5210	42	CDD	MCS2	11.34	11.18	14.27	23.98	-9.71
	5290	58	CDD	MCS2	12.68	12.77	15.73	23.98	-8.25
	5530	106	CDD	MCS2	14.37	14.14	17.27	23.98	-6.71
	5610	122	CDD	MCS2	18.84	18.66	21.76	23.98	-2.22
	5690	138	CDD	MCS11	19.84	19.62	22.74	23.98	-1.24
	5775	155	CDD	MCS2	16.50	16.76	19.65	30.00	-10.35

Table 7-39. FCC CDD 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.6 ISED CDD/SDM Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional 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	MCS15	12.44	12.32	15.39	-	-	2.92	18.31	23.01	-4.70
	5200	40	SDM	MCS12	12.45	12.32	15.40	-	-	2.92	18.32	23.01	-4.69
	5240	48	SDM	MCS10	12.45	12.31	15.39	-	-	2.92	18.31	23.01	-4.70
	5260	52	CDD	MCS10	16.07	16.03	19.06	23.98	-4.92	3.40	22.46	30.00	-7.54
	5300	60	CDD	MCS10	16.15	16.25	19.21	23.98	-4.77	3.40	22.61	30.00	-7.39
	5320	64	CDD	MCS10	16.27	16.05	19.17	23.98	-4.81	3.40	22.57	30.00	-7.43
	5500	100	CDD	MCS10	16.36	16.00	19.20	23.98	-4.78	2.60	21.80	30.00	-8.20
	5580	116	CDD	MCS10	16.48	16.25	19.38	23.98	-4.60	2.60	21.98	30.00	-8.02
	5720	144	CDD	MCS10	16.19	16.30	19.26	23.98	-4.72	2.60	21.86	30.00	-8.14
	5745	149	CDD	MCS10	19.79	19.95	22.88	30.00	-7.12	2.30	25.18	-	-
	5785	157	CDD	MCS10	19.97	19.79	22.89	30.00	-7.11	2.30	25.19	-	-
	5825	165	CDD	MCS10	19.80	19.80	22.81	30.00	-7.19	2.30	25.11	-	-

Table 7-40. ISED CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional 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	MCS4	12.26	12.26	15.27	-	-	2.92	18.19	23.01	-4.82
	5200	40	SDM	MCS2	12.41	12.42	15.43	-	-	2.92	18.35	23.01	-4.66
	5240	48	SDM	MCS11	12.40	12.13	15.28	-	-	2.92	18.20	23.01	-4.81
	5260	52	CDD	MCS2	16.37	16.21	19.30	23.98	-4.68	3.40	22.70	30.00	-7.30
	5300	60	CDD	MCS2	16.48	16.30	19.40	23.98	-4.58	3.40	22.80	30.00	-7.20
	5320	64	CDD	MCS2	16.49	16.03	19.28	23.98	-4.70	3.40	22.68	30.00	-7.32
	5500	100	CDD	MCS2	16.37	16.37	19.38	23.98	-4.60	2.60	21.98	30.00	-8.02
	5580	116	CDD	MCS2	16.42	16.19	19.32	23.98	-4.66	2.60	21.92	30.00	-8.08
	5720	144	CDD	MCS2	16.32	16.27	19.31	23.98	-4.67	2.60	21.91	30.00	-8.09
	5745	149	CDD	MCS2	19.81	19.96	22.89	30.00	-7.11	2.30	25.19	-	-
	5785	157	CDD	MCS2	19.84	19.80	22.83	30.00	-7.17	2.30	25.13	-	-
	5825	165	CDD	MCS2	19.54	19.81	22.68	30.00	-7.32	2.30	24.98	-	-

Table 7-41. ISED CDD/SDM 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional 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	CDD	MCS10	14.90	14.70	17.81	-	-	3.30	21.11	23.01	-1.90
	5230	46	SDM	MCS10	14.91	14.65	17.79	-	-	2.92	20.71	23.01	-2.30
	5270	54	CDD	MCS10	18.71	18.85	21.79	23.98	-2.19	3.40	25.19	30.00	-4.81
	5310	62	CDD	MCS10	15.89	15.96	18.93	23.98	-5.05	3.40	22.33	30.00	-7.67
	5510	102	CDD	MCS10	15.93	15.59	18.78	23.98	-5.20	2.60	21.38	30.00	-8.62
	5550	110	CDD	MCS10	18.57	18.68	21.63	23.98	-2.35	2.60	24.23	30.00	-5.77
	5670	134	CDD	MCS10	18.23	18.05	21.15	23.98	-2.83	2.60	23.75	30.00	-6.25
	5710	142	CDD	MCS10	18.53	18.52	21.53	23.98	-2.45	2.60	24.13	30.00	-5.87
	5755	151	CDD	MCS10	19.26	19.14	22.21	30.00	-7.79	2.30	24.51	-	-
	5795	159	CDD	MCS10	19.61	19.84	22.74	30.00	-7.26	2.30	25.04	-	-

Table 7-42. ISED CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional 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	CDD	MCS2	12.87	13.21	16.05	-	-	3.30	19.35	23.01	-3.66
	5230	46	SDM	MCS2	14.95	14.76	17.87	-	-	2.92	20.79	23.01	-2.22
	5270	54	CDD	MCS2	18.84	18.83	21.84	23.98	-2.14	3.40	25.24	30.00	-4.76
	5310	62	CDD	MCS2	14.29	14.73	17.52	23.98	-6.46	3.40	20.92	30.00	-9.08
	5510	102	CDD	MCS2	14.47	14.63	17.56	23.98	-6.42	2.60	20.16	30.00	-9.84
	5550	110	CDD	MCS2	18.58	18.73	21.66	23.98	-2.32	2.60	24.26	30.00	-5.74
	5670	134	CDD	MCS2	18.02	18.04	21.04	23.98	-2.94	2.60	23.64	30.00	-6.36
	5710	142	CDD	MCS2	18.64	18.62	21.64	23.98	-2.34	2.60	24.24	30.00	-5.76
	5755	151	CDD	MCS2	19.96	19.94	22.96	30.00	-7.04	2.30	25.26	-	-
	5795	159	CDD	MCS2	19.76	19.67	22.72	30.00	-7.28	2.30	25.02	-	-

Table 7-43. ISED CDD/SDM 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional 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	CDD	MCS2	11.79	11.88	14.85	-	-	3.30	18.15	23.01	-4.86
	5290	58	CDD	MCS2	13.40	13.39	16.41	23.98	-7.57	3.40	19.81	30.00	-10.19
	5530	106	CDD	MCS2	14.63	14.69	17.67	23.98	-6.31	2.60	20.27	30.00	-9.73
	5690	138	CDD	MCS2	19.91	19.84	22.88	23.98	-1.10	2.60	25.48	30.00	-4.52
	5775	155	CDD	MCS2	17.85	17.60	20.74	30.00	-9.26	2.30	23.04	-	-

Table 7-44. ISED CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Ant1	Ant2	Summed						
	5210	42	CDD	MCS2	11.20	11.32	14.27	-	-	3.30	17.57	23.01	-5.44
	5290	58	CDD	MCS2	12.68	12.77	15.73	23.98	-8.25	3.40	19.13	30.00	-10.87
	5530	106	CDD	MCS2	14.37	14.14	17.27	23.98	-6.71	2.60	19.87	30.00	-10.13
	5690	138	CDD	MCS2	19.79	19.56	22.69	23.98	-1.29	2.60	25.29	30.00	-4.71
	5775	155	CDD	MCS2	16.50	16.76	19.65	30.00	-10.35	2.30	21.95	-	-

Table 7-45. ISED CDD 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

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Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E)1), 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 802.11n (20MHz BW) mode, the average conducted output power was measured to be 12.44 dBm for Ant1 and 12.32 dBm for Ant2.

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

$$(12.44 \text{ dBm} + 12.32 \text{ dBm}) = (17.539 \text{ mW} + 17.061 \text{ mW}) = 34.594 \text{ mW} = 15.39 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 15.39 dBm with directional gain of 2.92 dBi.

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

$$15.39 \text{ dBm} + 2.92 \text{ dBi} = 18.31 \text{ dBm}$$

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7.5 Maximum Power Spectral Density

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

Test Overview and Limit

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

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

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

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

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2

KDB 789033 D02 v02r01 – Section F

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

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

Test Settings

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

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

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

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7.5.1 Ant1 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	12Mbps	8.36	11.00	-2.64
	5200	40	a	24Mbps	9.72	11.00	-1.29
	5240	48	a	24Mbps	9.57	11.00	-1.43
	5180	36	n (20MHz)	MCS2	8.15	11.00	-2.85
	5200	40	n (20MHz)	MCS4	9.53	11.00	-1.47
	5240	48	n (20MHz)	MCS4	9.37	11.00	-1.63
	5180	36	ax (SU) (20MHz)	MCS2	5.94	11.00	-5.06
	5200	40	ax (SU) (20MHz)	MCS11	8.05	11.00	-2.95
	5240	48	ax (SU) (20MHz)	MCS11	7.86	11.00	-3.14
	5190	38	n (40MHz)	MCS2	2.19	11.00	-8.81
	5230	46	n (40MHz)	MCS4	6.69	11.00	-4.31
	5190	38	ax (SU) (40MHz)	MCS2	-0.31	11.00	-11.31
	5230	46	ax (SU) (40MHz)	MCS2	4.99	11.00	-6.01
	5210	42	ac (80MHz)	MCS2	-2.55	11.00	-13.55
Band 2A	5210	42	ax (SU) (80MHz)	MCS2	-4.70	11.00	-15.70
	5260	52	a	24Mbps	9.72	11.00	-1.28
	5300	60	a	12Mbps	9.86	11.00	-1.14
	5320	64	a	12Mbps	8.91	11.00	-2.09
	5260	52	n (20MHz)	MCS4	9.58	11.00	-1.42
	5300	60	n (20MHz)	MCS2	9.62	11.00	-1.38
	5320	64	n (20MHz)	MCS2	8.93	11.00	-2.07
	5260	52	ax (SU) (20MHz)	MCS2	7.67	11.00	-3.33
	5300	60	ax (SU) (20MHz)	MCS4	7.84	11.00	-3.16
	5320	64	ax (SU) (20MHz)	MCS4	6.42	11.00	-4.59
	5270	54	n (40MHz)	MCS4	7.04	11.00	-3.96
	5310	62	n (40MHz)	MCS2	3.30	11.00	-7.70
	5270	54	ax (SU) (40MHz)	MCS11	5.46	11.00	-5.54
	5310	62	ax (SU) (40MHz)	MCS2	0.85	11.00	-10.15
Band 2C	5290	58	ac (80MHz)	MCS2	-1.91	11.00	-12.91
	5290	58	ax (SU) (80MHz)	MCS2	-4.10	11.00	-15.10
	5500	100	a	12Mbps	9.94	11.00	-1.07
	5580	116	a	24Mbps	9.76	11.00	-1.24
	5720	144	a	24Mbps	9.77	11.00	-1.24
	5500	100	n (20MHz)	MCS2	8.70	11.00	-2.30
	5580	116	n (20MHz)	MCS4	9.01	11.00	-1.99
	5720	144	n (20MHz)	MCS4	8.94	11.00	-2.07
	5500	100	ax (SU) (20MHz)	MCS2	6.76	11.00	-4.24
	5580	116	ax (SU) (20MHz)	MCS4	7.51	11.00	-3.49
	5720	144	ax (SU) (20MHz)	MCS4	7.42	11.00	-3.58
	5510	102	n (40MHz)	MCS2	2.98	11.00	-8.03
	5550	110	n (40MHz)	MCS4	6.41	11.00	-4.59
	*5590	118	n (40MHz)	MCS4	6.60	11.00	-4.40
	*5670	134	n (40MHz)	MCS2	4.67	11.00	-6.33
	5710	142	n (40MHz)	MCS4	6.35	11.00	-4.65
	5510	102	ax (SU) (40MHz)	MCS2	1.03	11.00	-9.97
	5550	110	ax (SU) (40MHz)	MCS2	5.19	11.00	-5.82
	5710	142	ax (SU) (40MHz)	MCS11	5.42	11.00	-5.58
	5530	106	ac (80MHz)	MCS2	-0.14	11.00	-11.14
	*5610	122	ac (80MHz)	MCS2	2.49	11.00	-8.51
	5690	138	ac (80MHz)	MCS2	2.16	11.00	-8.84
	5530	106	ax (SU) (80MHz)	MCS2	-1.85	11.00	-12.85
	*5610	122	ax (SU) (80MHz)	MCS2	2.60	11.00	-8.40
	5690	138	ax (SU) (80MHz)	MCS2	2.40	11.00	-8.61

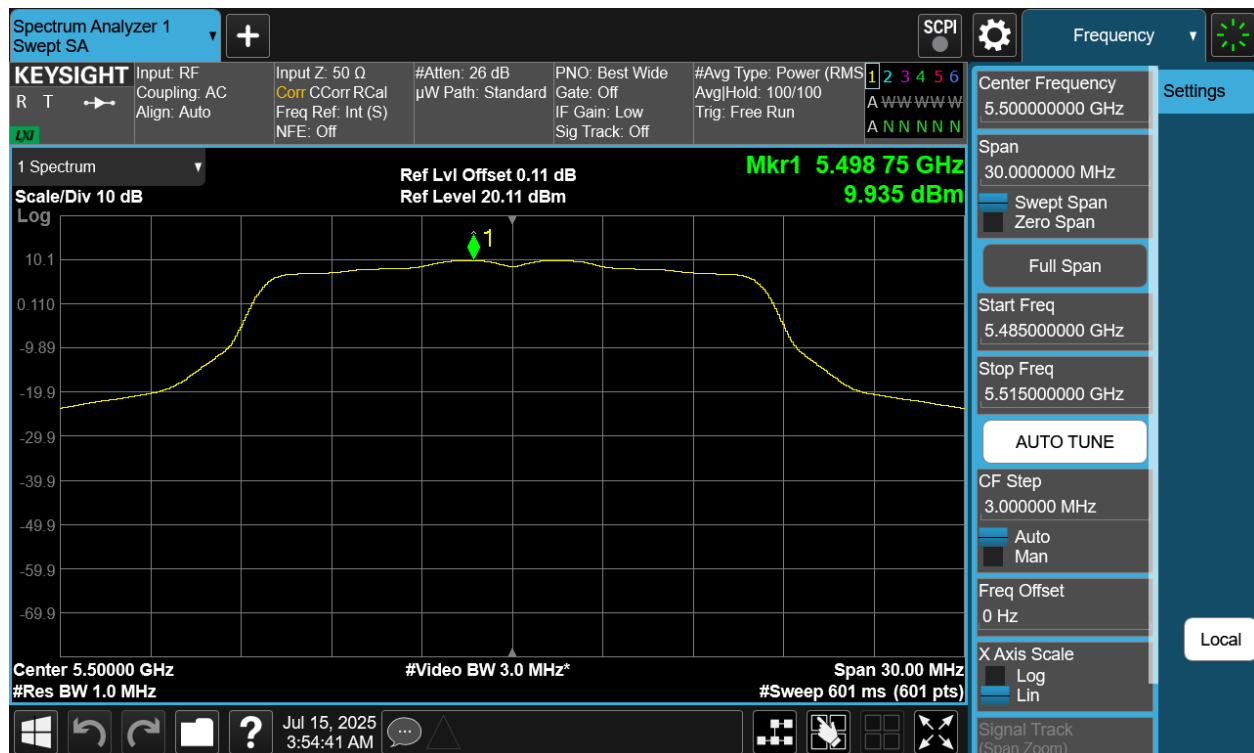
Table 7-46. Bands 1, 2A, 2C Power Spectral Density Measurements Ant1

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

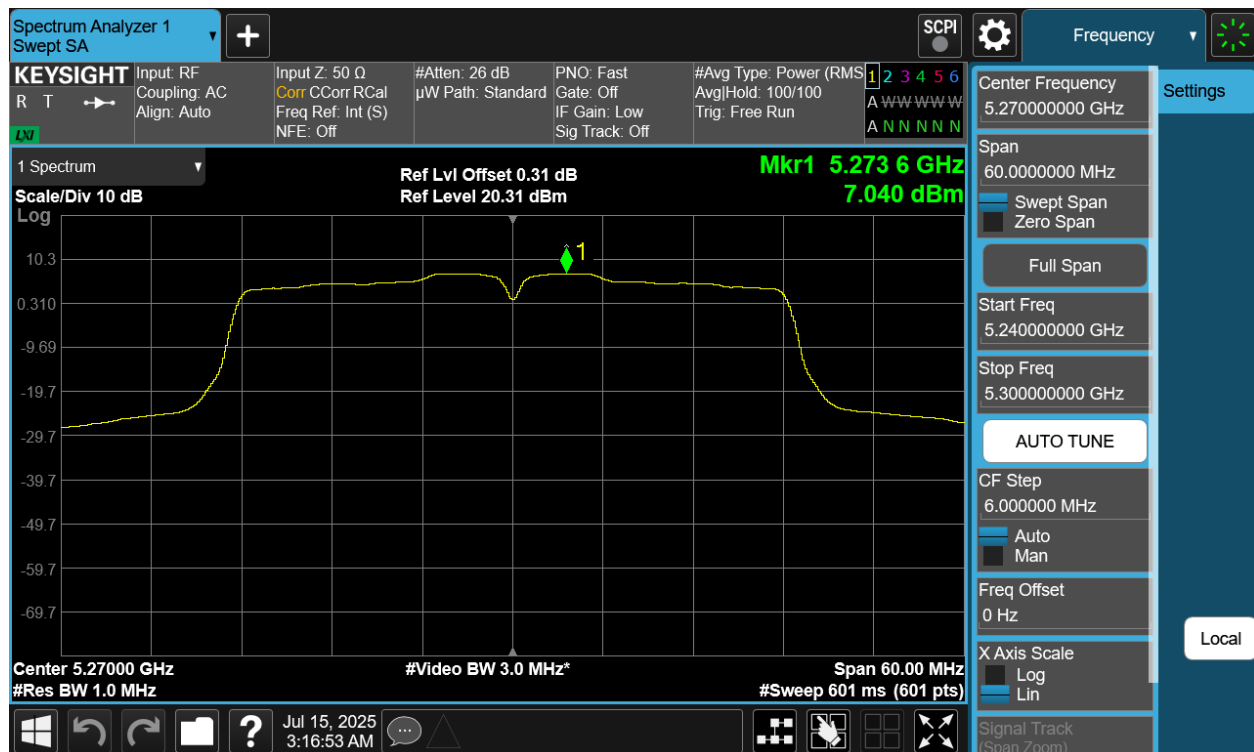
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-13 PSD Ant1 (20MHz BW 802.11a - Ch.100)

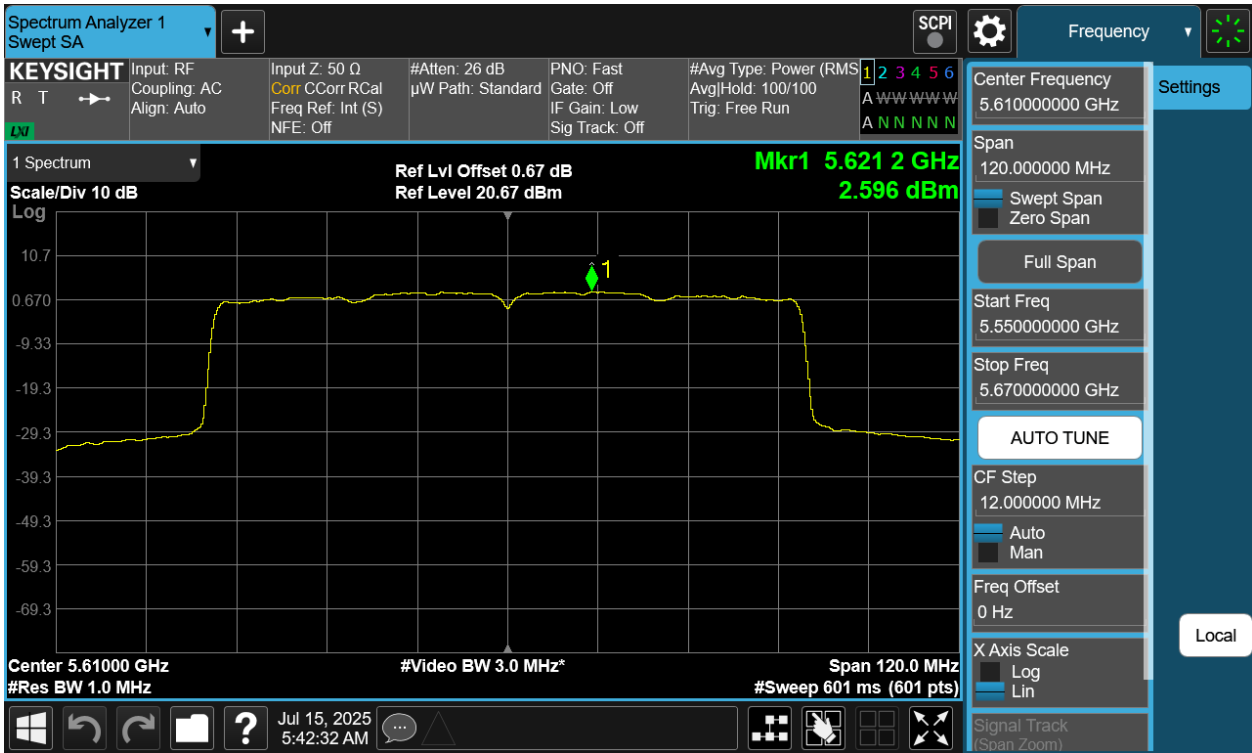


Plot 7-14 PSD Ant1 (40MHz BW 802.11n - Ch.54)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-15 PSD Ant1 (80MHz BW 802.11ax(SU) - Ch.122)

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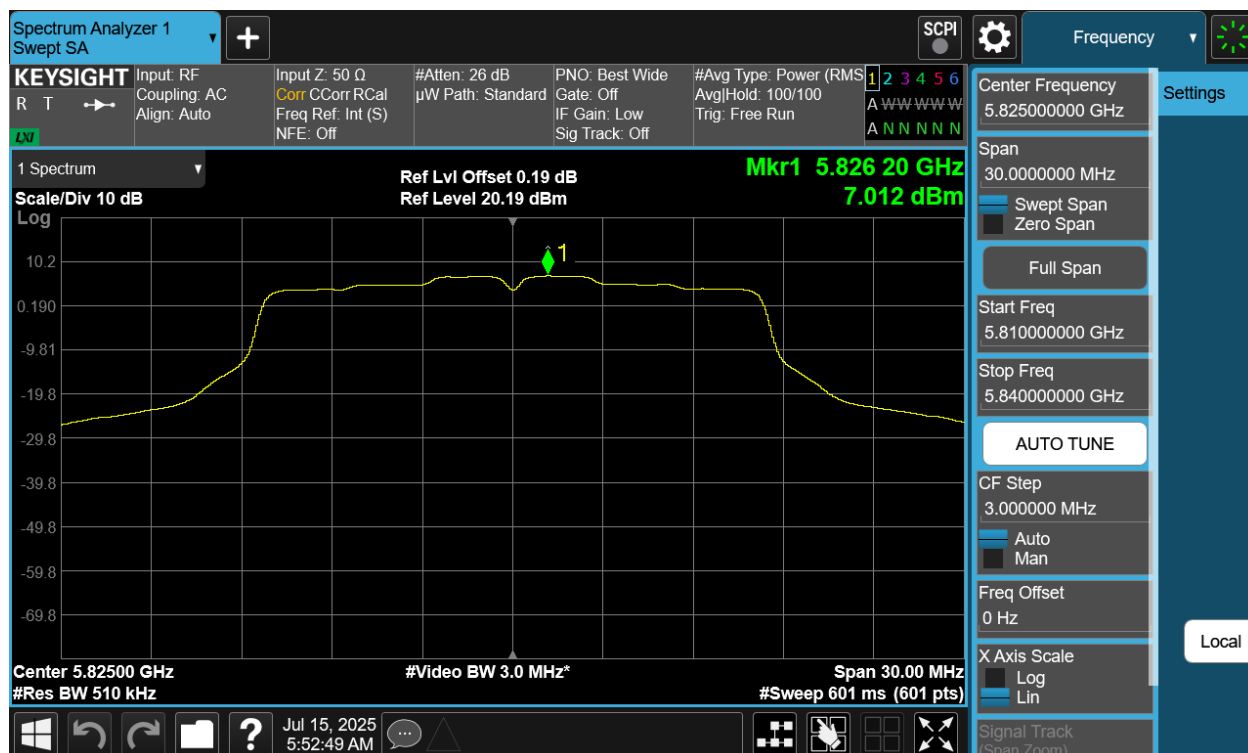
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	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	24Mbps	6.63	30.0	-23.37
	5785	157	a	24Mbps	6.69	30.0	-23.31
	5825	165	a	24Mbps	7.01	30.0	-22.99
	5745	149	n (20MHz)	MCS4	6.73	30.0	-23.27
	5785	157	n (20MHz)	MCS2	6.82	30.0	-23.19
	5825	165	n (20MHz)	MCS2	6.58	30.0	-23.42
	5745	149	ax (SU) (20MHz)	MCS11	5.51	30.0	-24.49
	5785	157	ax (SU) (20MHz)	MCS4	5.58	30.0	-24.42
	5825	165	ax (SU) (20MHz)	MCS11	5.31	30.0	-24.69
	5755	151	n (40MHz)	MCS2	3.07	30.0	-26.93
	5795	159	n (40MHz)	MCS4	3.56	30.0	-26.44
	5755	151	ax (SU) (40MHz)	MCS11	2.97	30.0	-27.03
	5795	159	ax (SU) (40MHz)	MCS11	2.63	30.0	-27.37
	5775	155	ac (80MHz)	MCS4	-0.52	30.0	-30.52
	5775	155	ax (SU) (80MHz)	MCS2	-2.64	30.0	-32.64

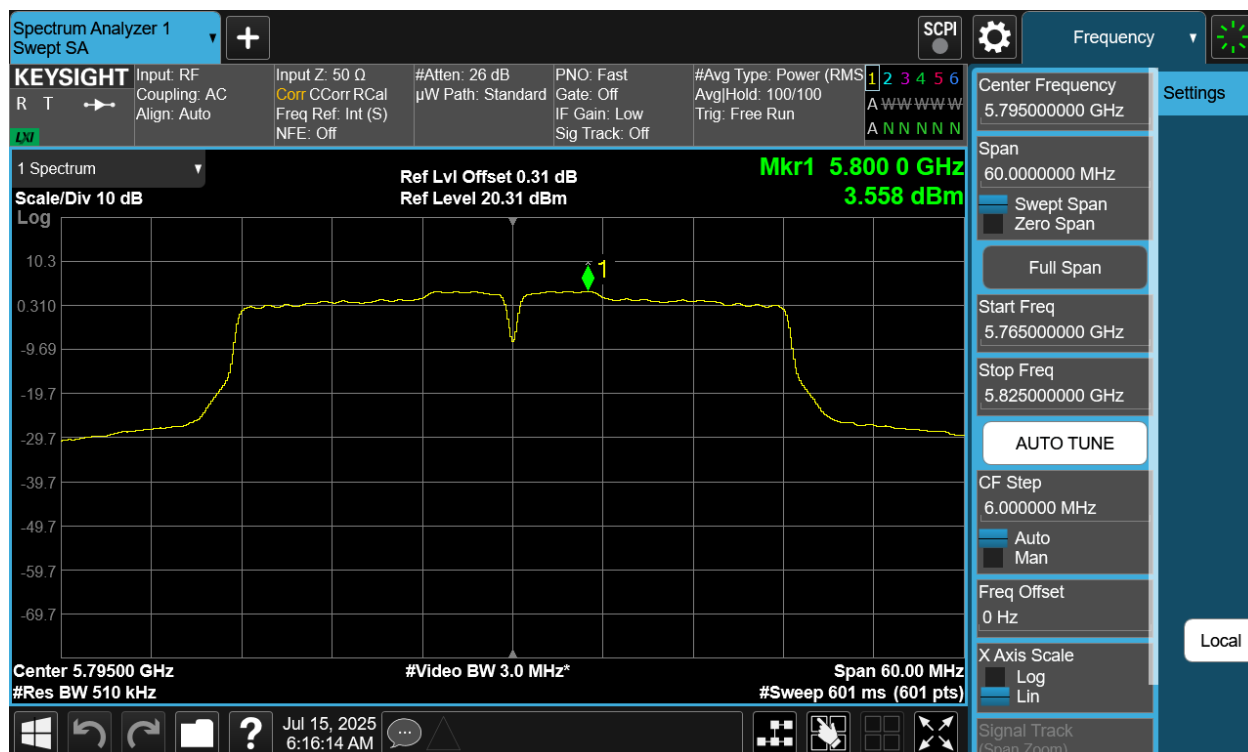
Table 7-47. Band 3 Power Spectral Density Measurements Ant1

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 50 of 134

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Plot 7-16 PSD Ant1 (20MHz BW 802.11a - Ch.165)



Plot 7-17 PSD Ant1 (40MHz BW 802.11n - Ch.159)

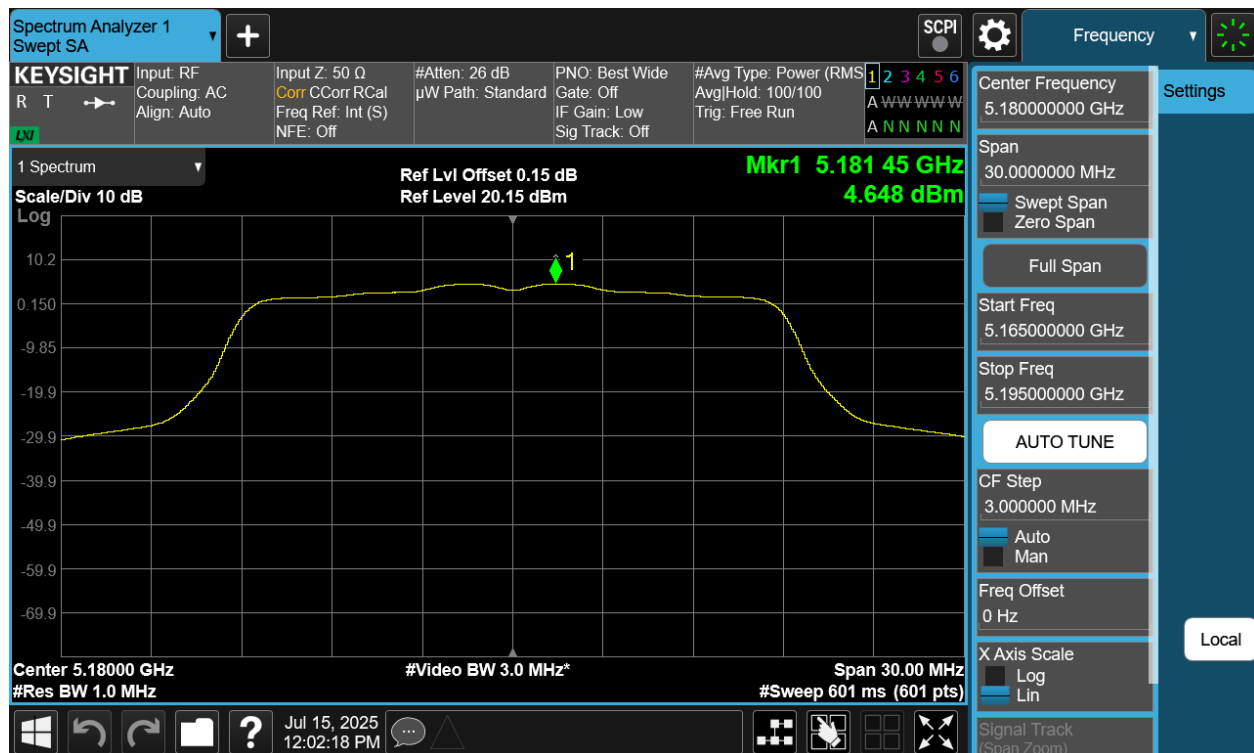
FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 51 of 134

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	12Mbps	4.51	3.30	7.81	10.0	-2.19
	5200	40	a	24Mbps	4.44	3.30	7.74	10.0	-2.27
	5240	48	a	24Mbps	4.23	3.30	7.53	10.0	-2.47
	5180	36	n (20MHz)	MCS2	4.65	3.30	7.95	10.0	-2.05
	5200	40	n (20MHz)	MCS4	4.44	3.30	7.74	10.0	-2.26
	5240	48	n (20MHz)	MCS4	4.29	3.30	7.59	10.0	-2.41
	5180	36	ax (SU) (20MHz)	MCS4	2.74	3.30	6.04	10.0	-3.97
	5200	40	ax (SU) (20MHz)	MCS2	2.70	3.30	6.00	10.0	-4.00
	5240	48	ax (SU) (20MHz)	MCS11	2.44	3.30	5.74	10.0	-4.26
	5190	38	n (40MHz)	MCS2	1.68	3.30	4.98	10.0	-5.02
	5230	46	n (40MHz)	MCS2	3.69	3.30	6.99	10.0	-3.01
	5190	38	ax (SU) (40MHz)	MCS2	-1.05	3.30	2.25	10.0	-7.75
	5230	46	ax (SU) (40MHz)	MCS4	2.41	3.30	5.71	10.0	-4.29
	5210	42	ac (80MHz)	MCS2	-2.92	3.30	0.38	10.0	-9.62
	5210	42	ax (SU) (80MHz)	MCS2	-5.44	3.30	-2.14	10.0	-12.14

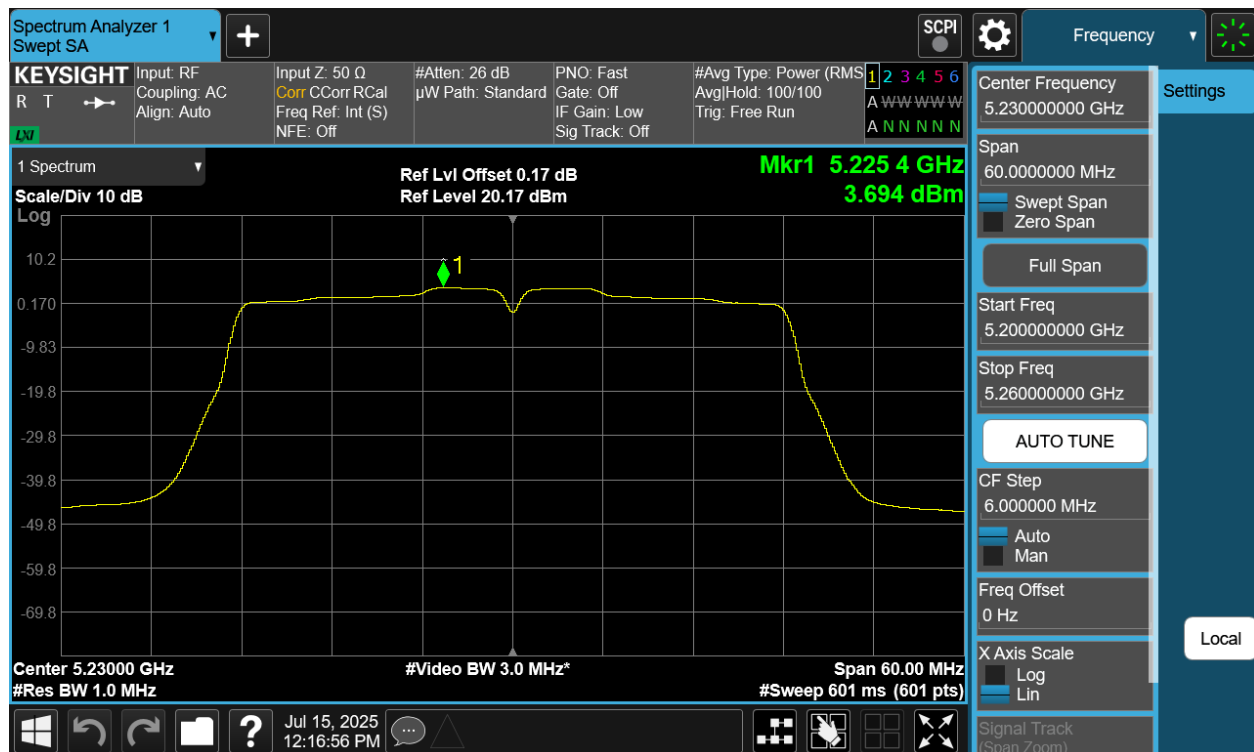
Table 7-48. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Ant1

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 53 of 134

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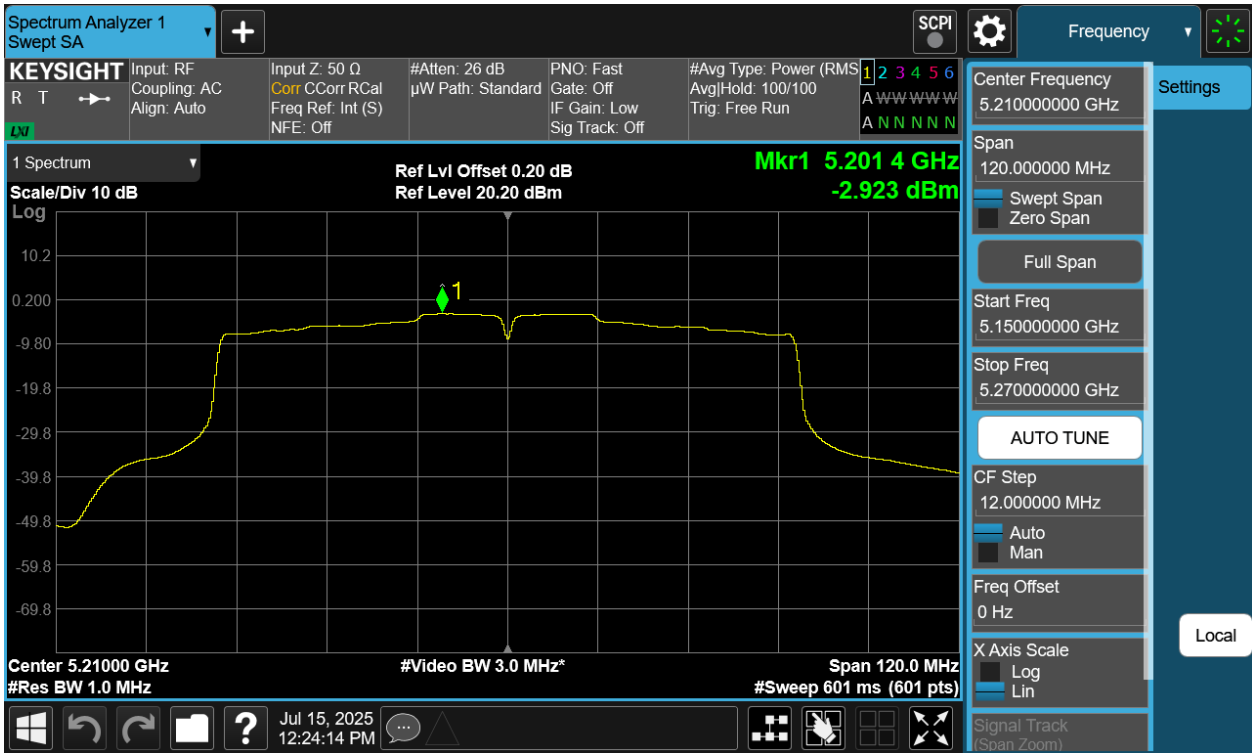


Plot 7-19 PSD Ant1 (20MHz BW 802.11n - Ch.36)



Plot 7-20 PSD Ant1 (40MHz BW 802.11n - Ch.46)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 54 of 134



Plot 7-21 PSD Ant1 (80MHz BW 802.11ac - Ch.42)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 55 of 134

7.5.2 Ant2 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	12Mbps	7.68	11.00	-3.32
	5200	40	a	24Mbps	9.00	11.00	-2.00
	5240	48	a	24Mbps	8.57	11.00	-2.43
	5180	36	n (20MHz)	MCS2	7.55	11.00	-3.45
	5200	40	n (20MHz)	MCS4	9.01	11.00	-1.99
	5240	48	n (20MHz)	MCS4	8.63	11.00	-2.37
	5180	36	ax (SU) (20MHz)	MCS2	5.29	11.00	-5.71
	5200	40	ax (SU) (20MHz)	MCS4	7.25	11.00	-3.75
	5240	48	ax (SU) (20MHz)	MCS11	6.83	11.00	-4.17
	5190	38	n (40MHz)	MCS2	1.50	11.00	-9.50
	5230	46	n (40MHz)	MCS4	5.90	11.00	-5.10
	5190	38	ax (SU) (40MHz)	MCS2	-1.10	11.00	-12.10
	5230	46	ax (SU) (40MHz)	MCS2	4.64	11.00	-6.36
	5210	42	ac (80MHz)	MCS2	-2.77	11.00	-13.77
Band 2A	5210	42	ax (SU) (80MHz)	MCS2	-5.52	11.00	-16.52
	5260	52	a	24Mbps	8.46	11.00	-2.54
	5300	60	a	12Mbps	8.92	11.00	-2.08
	5320	64	a	12Mbps	8.43	11.00	-2.57
	5260	52	n (20MHz)	MCS2	8.31	11.00	-2.69
	5300	60	n (20MHz)	MCS4	8.53	11.00	-2.47
	5320	64	n (20MHz)	MCS2	8.26	11.00	-2.74
	5260	52	ax (SU) (20MHz)	MCS11	6.99	11.00	-4.01
	5300	60	ax (SU) (20MHz)	MCS11	6.95	11.00	-4.05
	5320	64	ax (SU) (20MHz)	MCS2	5.64	11.00	-5.36
	5270	54	n (40MHz)	MCS4	5.72	11.00	-5.28
	5310	62	n (40MHz)	MCS2	2.69	11.00	-8.31
	5270	54	ax (SU) (40MHz)	MCS11	4.31	11.00	-6.69
	5310	62	ax (SU) (40MHz)	MCS2	0.39	11.00	-10.61
Band 2C	5290	58	ac (80MHz)	MCS2	-3.00	11.00	-14.00
	5290	58	ax (SU) (80MHz)	MCS2	-5.02	11.00	-16.02
	5500	100	a	12Mbps	8.82	11.00	-2.18
	5580	116	a	24Mbps	8.97	11.00	-2.03
	5720	144	a	24Mbps	8.91	11.00	-2.09
	5500	100	n (20MHz)	MCS2	8.69	11.00	-2.31
	5580	116	n (20MHz)	MCS4	8.95	11.00	-2.05
	5720	144	n (20MHz)	MCS4	8.93	11.00	-2.07
	5500	100	ax (SU) (20MHz)	MCS2	6.44	11.00	-4.56
	5580	116	ax (SU) (20MHz)	MCS11	7.45	11.00	-3.55
	5720	144	ax (SU) (20MHz)	MCS11	7.41	11.00	-3.59
	5510	102	n (40MHz)	MCS2	2.50	11.00	-8.50
	5550	110	n (40MHz)	MCS4	5.97	11.00	-5.03
	*5590	118	n (40MHz)	MCS4	6.12	11.00	-4.88
	*5670	134	n (40MHz)	MCS2	4.61	11.00	-6.39
	5710	142	n (40MHz)	MCS4	6.00	11.00	-5.00
	5510	102	ax (SU) (40MHz)	MCS2	0.88	11.00	-10.12
	5550	110	ax (SU) (40MHz)	MCS4	4.86	11.00	-6.14
	5710	142	ax (SU) (40MHz)	MCS11	5.07	11.00	-5.93
	5530	106	ac (80MHz)	MCS2	-0.58	11.00	-11.58
	*5610	122	ac (80MHz)	MCS2	2.22	11.00	-8.78
	5690	138	ac (80MHz)	MCS2	2.09	11.00	-8.91
	5530	106	ax (SU) (80MHz)	MCS2	-2.09	11.00	-13.09
	*5610	122	ax (SU) (80MHz)	MCS2	2.45	11.00	-8.55
	5690	138	ax (SU) (80MHz)	MCS2	2.01	11.00	-8.99

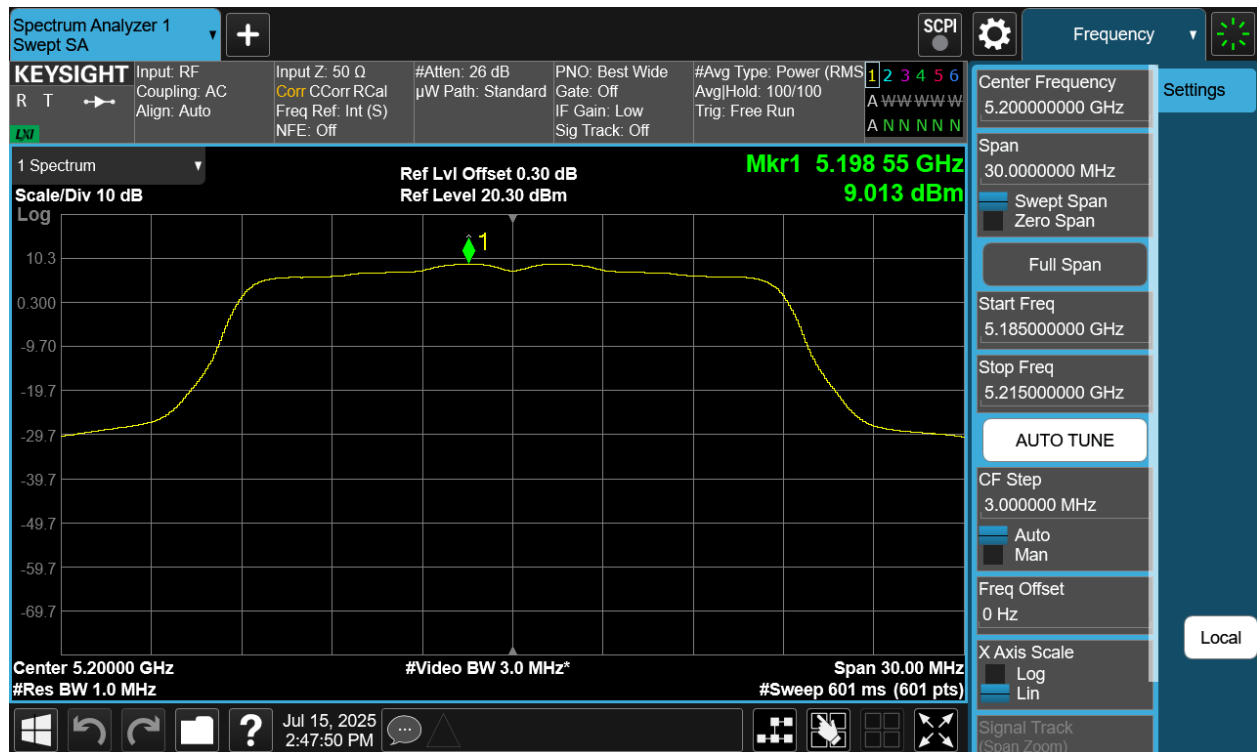
Table 7-49. Bands 1, 2A, 2C Power Spectral Density Measurements Ant2

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

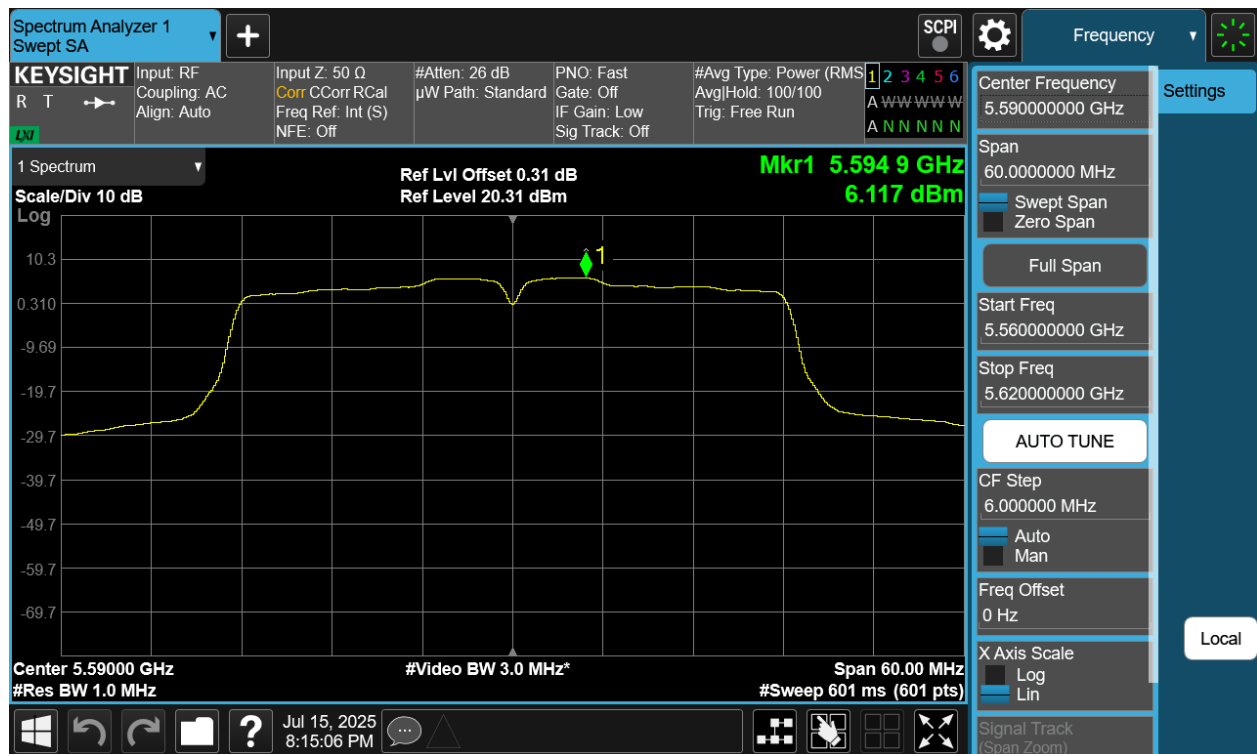
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 56 of 134

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Plot 7-22 PSD Ant2 (20MHz BW 802.11n - Ch.40)

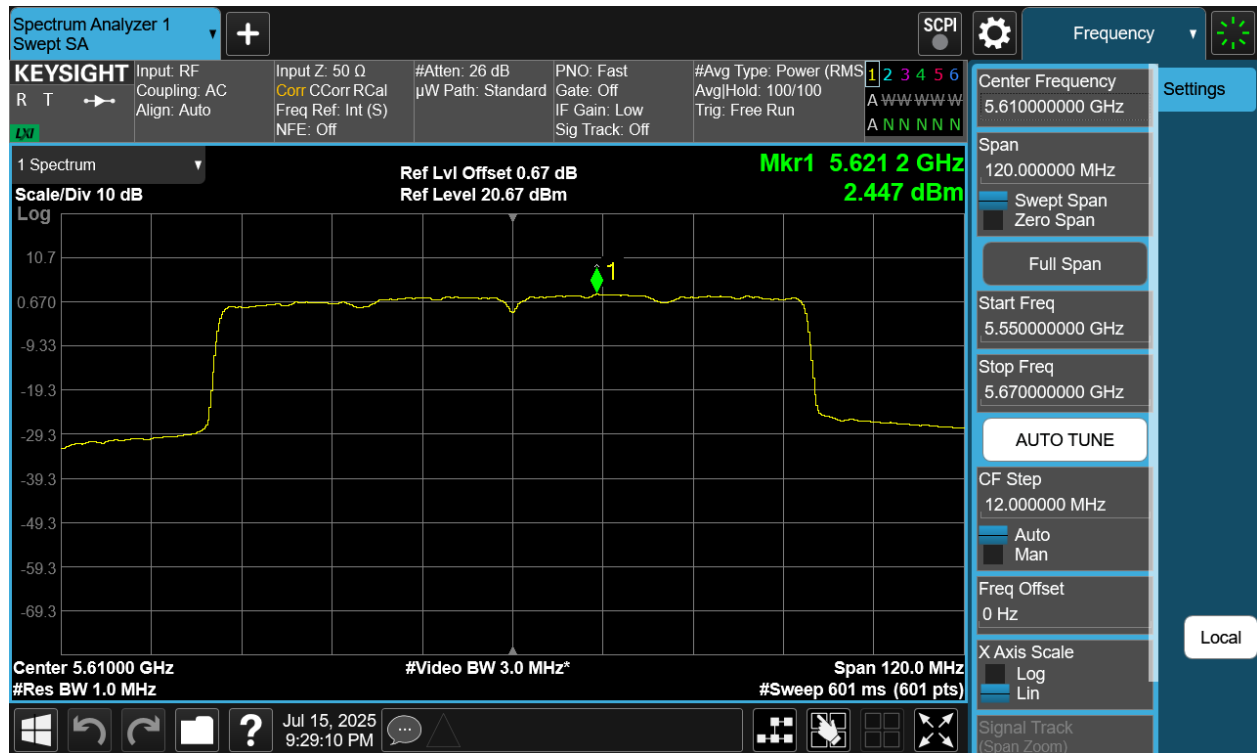


Plot 7-23 PSD Ant2 (40MHz BW 802.11n - Ch.118)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 57 of 134

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Plot 7-24 PSD Ant2 (80MHz BW 802.11ax(SU) - Ch.122)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 58 of 134

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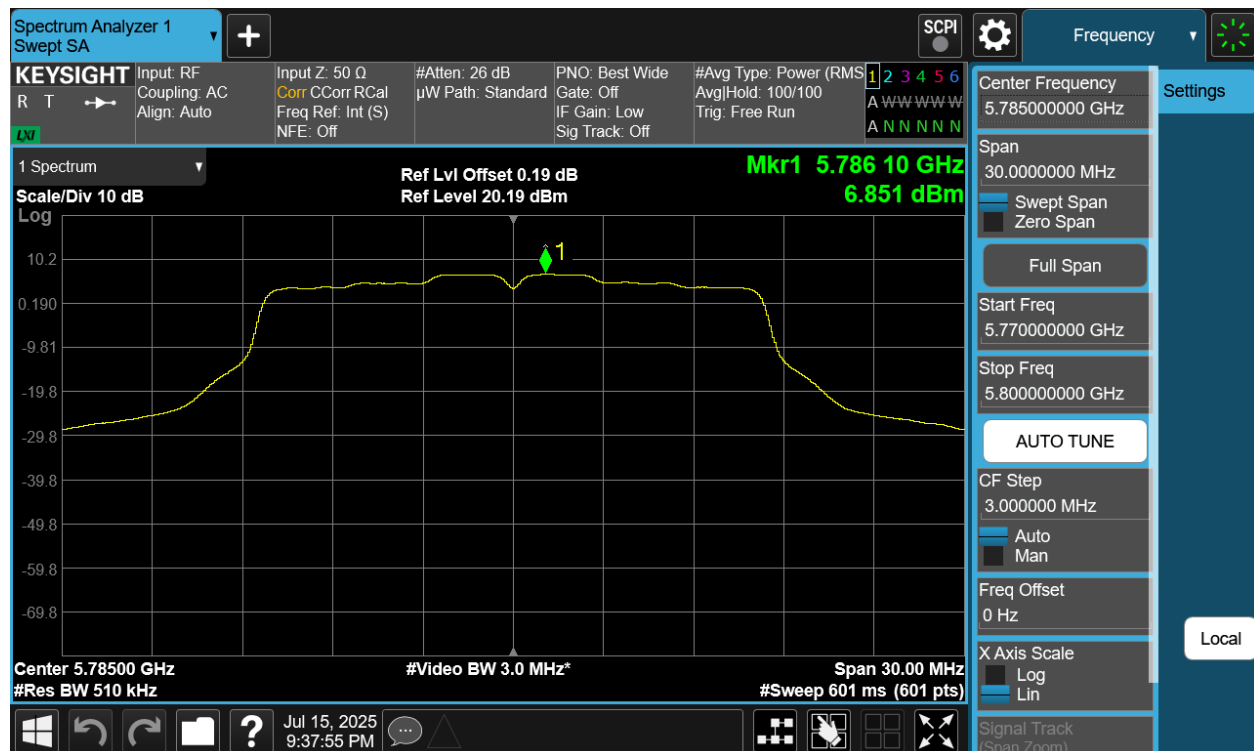
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	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	12Mbps	6.83	30.0	-23.17
	5785	157	a	24Mbps	6.85	30.0	-23.15
	5825	165	a	12Mbps	6.72	30.0	-23.28
	5745	149	n (20MHz)	MCS4	6.54	30.0	-23.46
	5785	157	n (20MHz)	MCS2	6.72	30.0	-23.28
	5825	165	n (20MHz)	MCS4	6.71	30.0	-23.29
	5745	149	ax (SU) (20MHz)	MCS11	5.66	30.0	-24.34
	5785	157	ax (SU) (20MHz)	MCS11	5.50	30.0	-24.51
	5825	165	ax (SU) (20MHz)	MCS11	5.57	30.0	-24.43
	5755	151	n (40MHz)	MCS2	3.03	30.0	-26.97
	5795	159	n (40MHz)	MCS2	3.54	30.0	-26.47
	5755	151	ax (SU) (40MHz)	MCS11	2.89	30.0	-27.11
	5795	159	ax (SU) (40MHz)	MCS11	2.49	30.0	-27.51
	5775	155	ac (80MHz)	MCS4	-0.80	30.0	-30.80
	5775	155	ax (SU) (80MHz)	MCS2	-2.60	30.0	-32.60

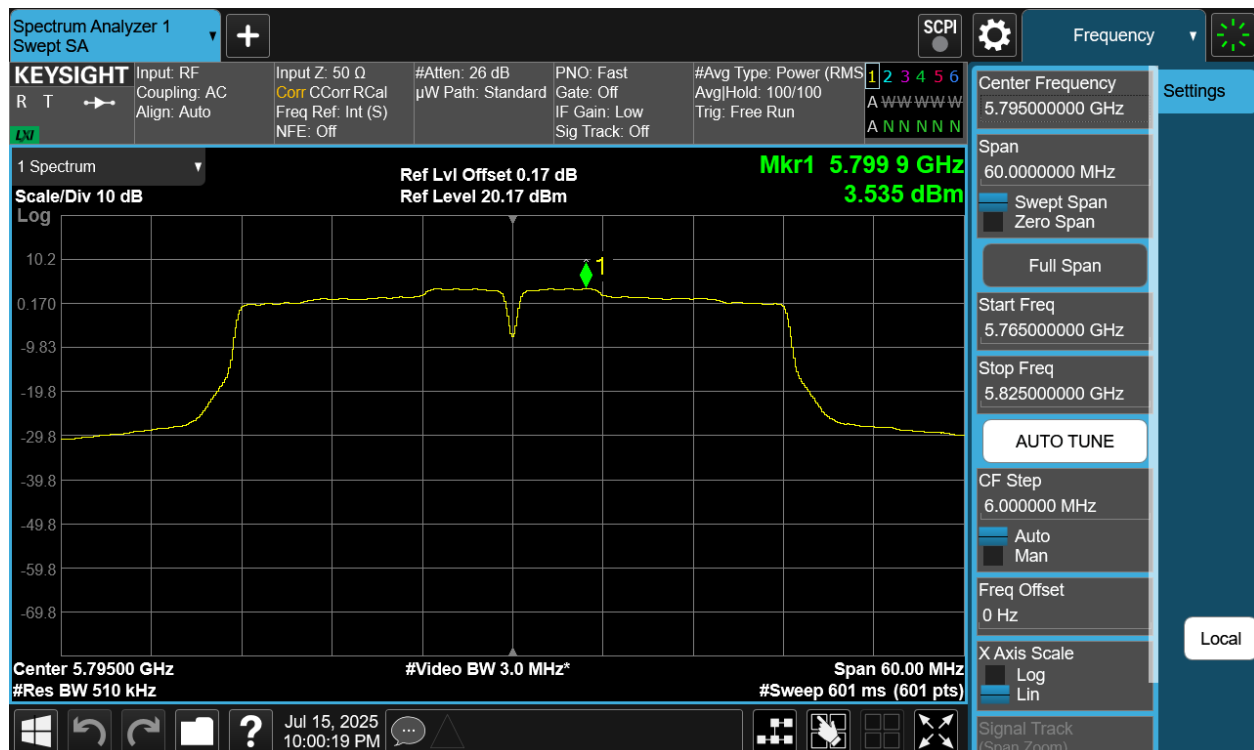
Table 7-50. Band 3 Power Spectral Density Measurements Ant2

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 59 of 134

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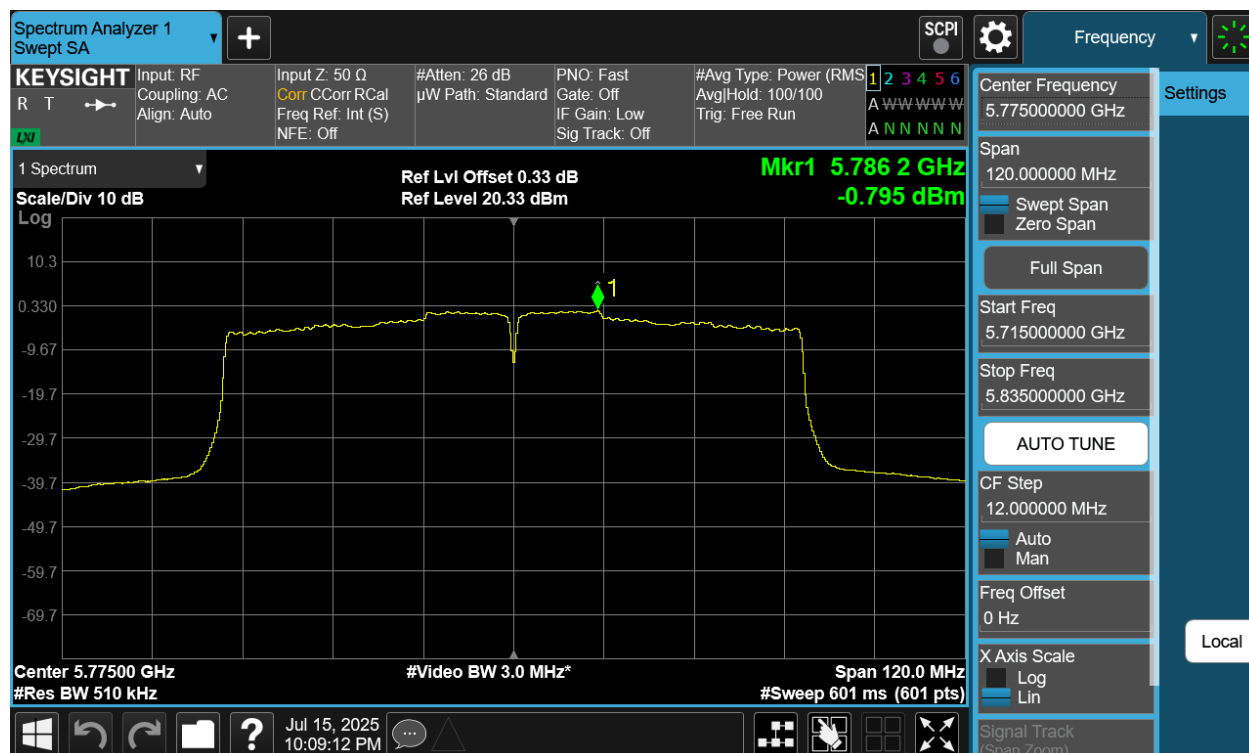


Plot 7-25 PSD Ant2 (20MHz BW 802.11a - Ch.157)



Plot 7-26 PSD Ant2 (40MHz BW 802.11n - Ch.159)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 60 of 134



FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 61 of 134

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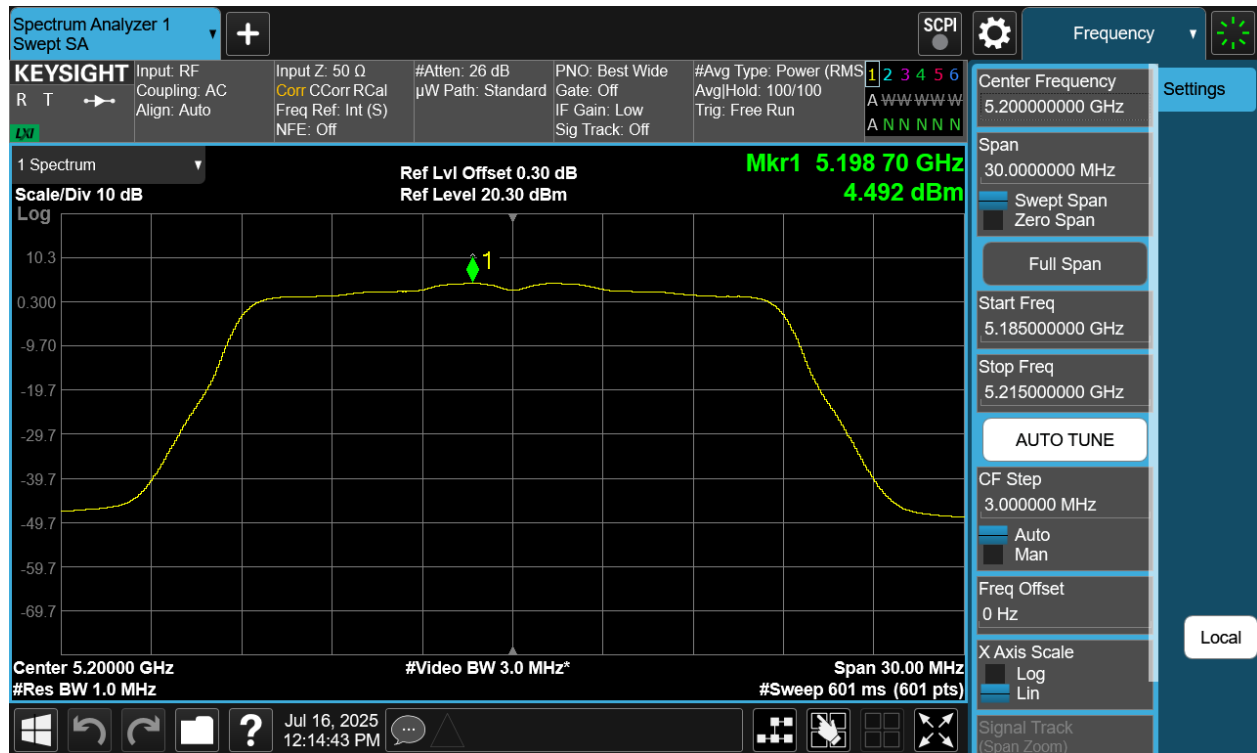
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	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	24Mbps	4.41	2.50	6.91	10.0	-3.09
	5200	40	a	24Mbps	4.44	2.50	6.94	10.0	-3.06
	5240	48	a	12Mbps	4.24	2.50	6.74	10.0	-3.26
	5180	36	n (20MHz)	MCS2	4.45	2.50	6.95	10.0	-3.05
	5200	40	n (20MHz)	MCS4	4.49	2.50	6.99	10.0	-3.01
	5240	48	n (20MHz)	MCS4	3.99	2.50	6.49	10.0	-3.51
	5180	36	ax (SU) (20MHz)	MCS4	2.92	2.50	5.42	10.0	-4.59
	5200	40	ax (SU) (20MHz)	MCS11	2.70	2.50	5.20	10.0	-4.80
	5240	48	ax (SU) (20MHz)	MCS2	2.42	2.50	4.92	10.0	-5.08
	5190	38	n (40MHz)	MCS2	1.67	2.50	4.17	10.0	-5.83
	5230	46	n (40MHz)	MCS4	3.69	2.50	6.19	10.0	-3.81
	5190	38	ax (SU) (40MHz)	MCS2	-1.14	2.50	1.36	10.0	-8.64
	5230	46	ax (SU) (40MHz)	MCS11	2.38	2.50	4.88	10.0	-5.12
	5210	42	ac (80MHz)	MCS2	-3.03	2.50	-0.53	10.0	-10.53
	5210	42	ax (SU) (80MHz)	MCS2	-5.46	2.50	-2.96	10.0	-12.96

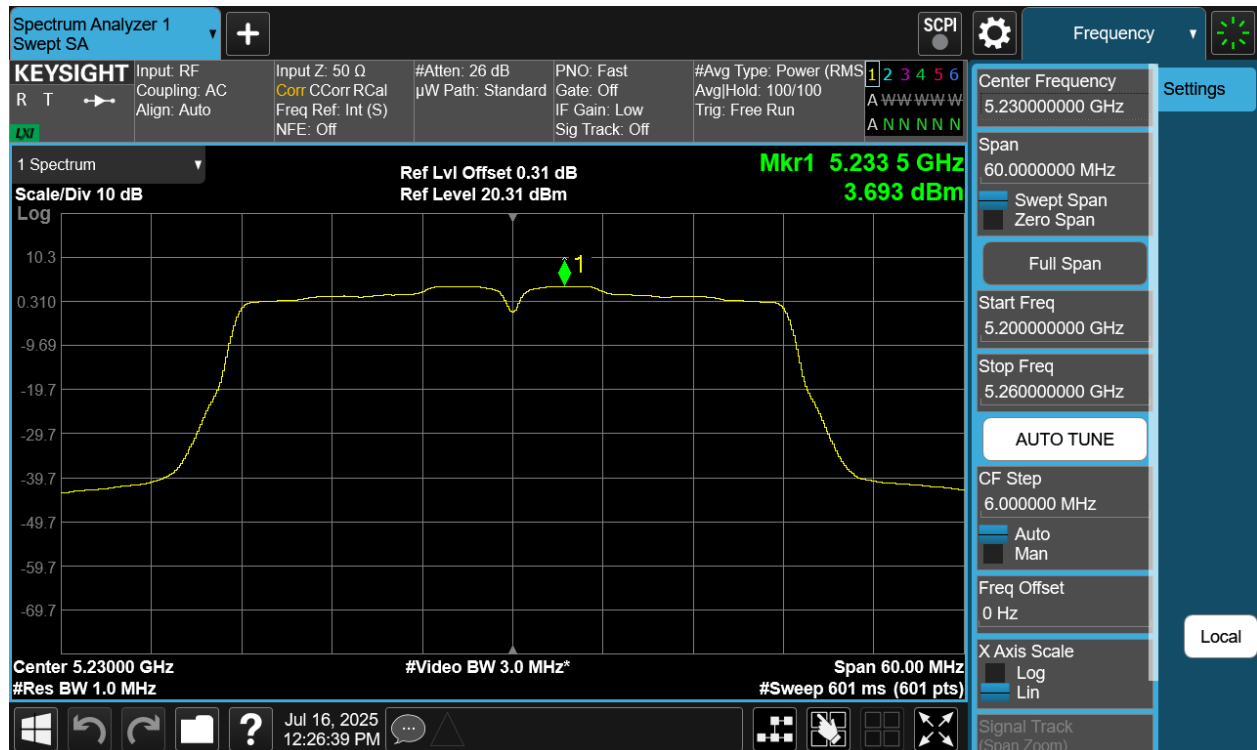
Table 7-51. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Ant2

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 62 of 134

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Plot 7-28 PSD Ant2 (20MHz BW 802.11n - Ch.40)

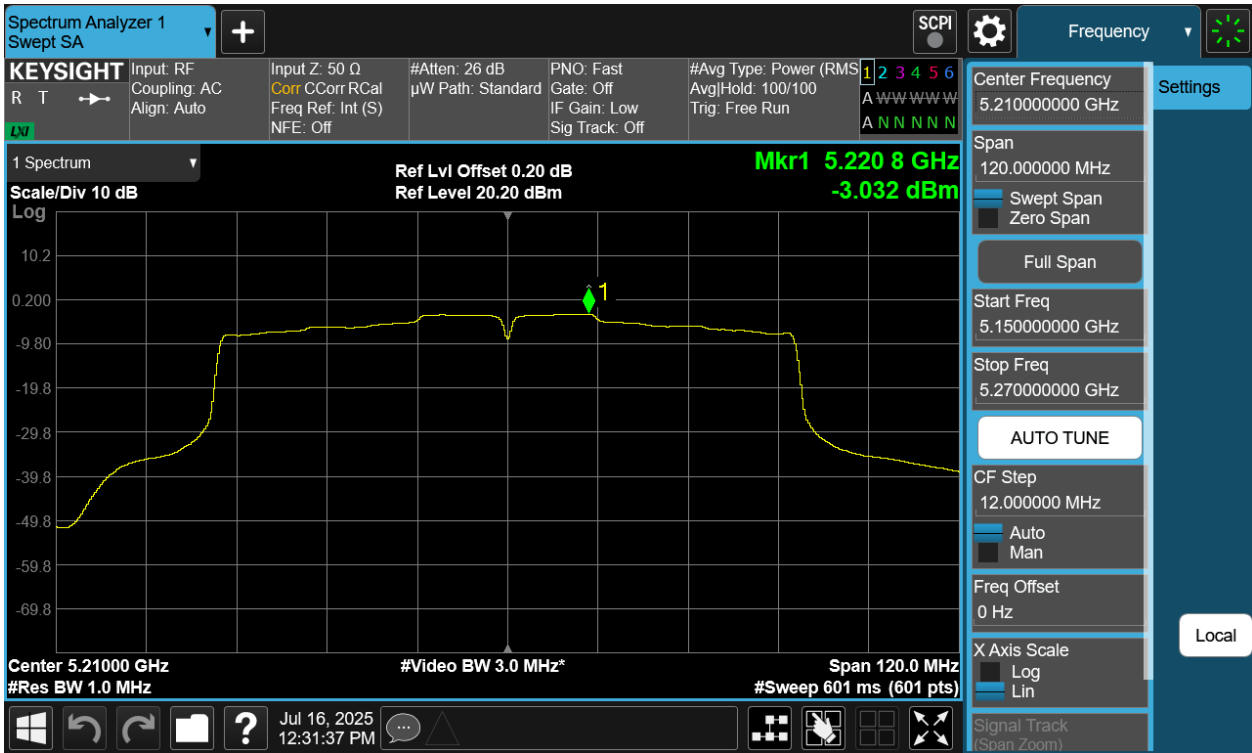


Plot 7-29 PSD Ant2 (40MHz BW 802.11n - Ch.46)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 63 of 134

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FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 64 of 134

7.5.3 Summed CDD/SDM Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate	Antenna Ant1 Power Density [dBm/MHz]	Antenna Ant2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	CDD	MCS12	5.95	5.87	8.92	11.00	-2.08
	5200	40	n (20MHz)	CDD	MCS12	6.22	5.76	9.01	11.00	-1.99
	5240	48	n (20MHz)	CDD	MCS12	5.76	5.71	8.75	11.00	-2.25
	5180	36	ax (SU) (20MHz)	CDD	MCS2	2.79	2.79	5.80	11.00	-5.20
	5200	40	ax (SU) (20MHz)	CDD	MCS11	4.22	4.24	7.24	11.00	-3.76
	5240	48	ax (SU) (20MHz)	CDD	MCS11	4.13	3.99	7.07	11.00	-3.93
	5190	38	n (40MHz)	CDD	MCS10	1.57	1.32	4.46	11.00	-6.54
	5230	46	n (40MHz)	CDD	MCS10	5.05	5.42	8.25	11.00	-2.75
	5190	38	ax (SU) (40MHz)	CDD	MCS2	-1.88	-1.92	1.11	11.00	-9.89
	5230	46	ax (SU) (40MHz)	CDD	MCS11	3.62	3.63	6.63	11.00	-4.37
Band 2A	5210	42	ac (80MHz)	CDD	MCS2	-4.46	-4.80	-1.61	11.00	-12.61
	5210	42	ax (SU) (80MHz)	CDD	MCS2	-6.32	-6.67	-3.48	11.00	-14.48
	5260	52	n (20MHz)	CDD	MCS12	5.54	5.64	8.60	11.00	-2.40
	5300	60	n (20MHz)	CDD	MCS12	5.89	5.85	8.88	11.00	-2.12
	5320	64	n (20MHz)	CDD	MCS12	5.85	5.60	8.74	11.00	-2.26
	5260	52	ax (SU) (20MHz)	CDD	MCS4	3.97	3.75	6.88	11.00	-4.12
	5300	60	ax (SU) (20MHz)	CDD	MCS11	4.24	3.92	7.09	11.00	-3.91
	5320	64	ax (SU) (20MHz)	CDD	MCS4	4.07	4.10	7.09	11.00	-3.91
	5270	54	n (40MHz)	CDD	MCS12	4.99	5.27	8.14	11.00	-2.86
	5310	62	n (40MHz)	CDD	MCS10	2.53	2.35	5.45	11.00	-5.55
Band 2C	5270	54	ax (SU) (40MHz)	CDD	MCS11	3.78	3.74	6.77	11.00	-4.23
	5310	62	ax (SU) (40MHz)	CDD	MCS2	-0.71	-0.64	2.34	11.00	-8.66
	5290	58	ac (80MHz)	CDD	MCS2	-3.12	-3.60	-0.34	11.00	-11.34
	5290	58	ax (SU) (80MHz)	CDD	MCS2	-5.39	-5.45	-2.41	11.00	-13.41
	5500	100	n (20MHz)	CDD	MCS12	6.01	6.22	9.12	11.00	-1.88
	5580	116	n (20MHz)	CDD	MCS12	6.33	6.07	9.21	11.00	-1.79
	5720	144	n (20MHz)	CDD	MCS12	6.17	6.15	9.17	11.00	-1.83
	5500	100	ax (SU) (20MHz)	CDD	MCS4	4.22	4.09	7.17	11.00	-3.83
	5580	116	ax (SU) (20MHz)	CDD	MCS11	4.66	4.10	7.40	11.00	-3.60
	5720	144	ax (SU) (20MHz)	CDD	MCS4	4.45	4.02	7.25	11.00	-3.75
	5510	102	n (40MHz)	CDD	MCS10	2.44	2.22	5.34	11.00	-5.66
	5550	110	n (40MHz)	CDD	MCS12	5.46	5.65	8.56	11.00	-2.44
	*5590	118	n (40MHz)	CDD	MCS12	5.64	5.71	8.68	11.00	-2.32
	*5670	134	n (40MHz)	CDD	MCS10	4.64	4.65	7.66	11.00	-3.34
	5710	142	n (40MHz)	CDD	MCS12	5.36	5.58	8.48	11.00	-2.52
	5510	102	ax (SU) (40MHz)	CDD	MCS4	-0.35	-0.41	2.63	11.00	-8.37
	5550	110	ax (SU) (40MHz)	CDD	MCS4	3.91	3.57	6.75	11.00	-4.25
	5710	142	ax (SU) (40MHz)	CDD	MCS11	4.17	4.11	7.15	11.00	-3.85
	5530	106	ac (80MHz)	CDD	MCS2	-1.78	-1.79	1.22	11.00	-9.78
	*5610	122	ac (80MHz)	CDD	MCS2	1.93	2.38	5.17	11.00	-5.83
	5690	138	ac (80MHz)	CDD	MCS2	2.21	2.35	5.29	11.00	-5.71
	5530	106	ax (SU) (80MHz)	CDD	MCS2	-3.43	-3.64	-0.52	11.00	-11.52
	*5610	122	ax (SU) (80MHz)	CDD	MCS2	1.18	1.20	4.20	11.00	-6.80
	5690	138	ax (SU) (80MHz)	CDD	MCS2	2.33	2.05	5.20	11.00	-5.80

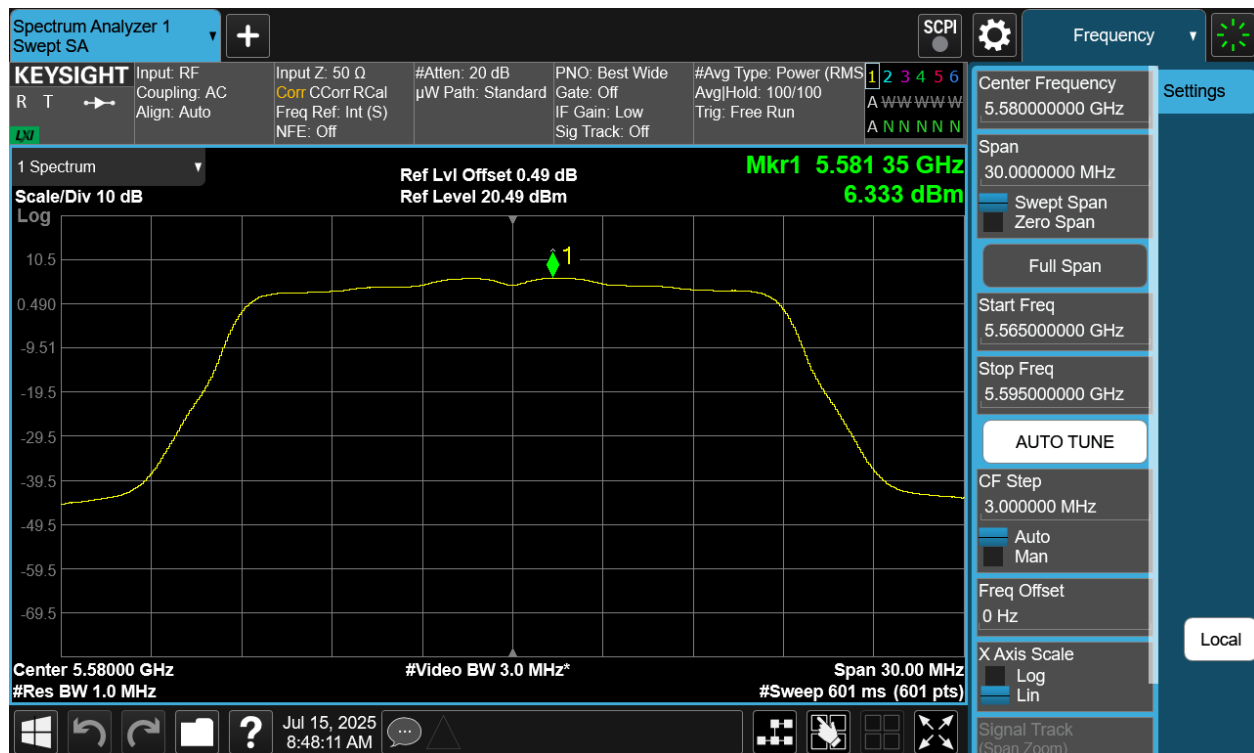
Table 7-52. Bands 1, 2A, 2C CDD Power Spectral Density Measurements

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

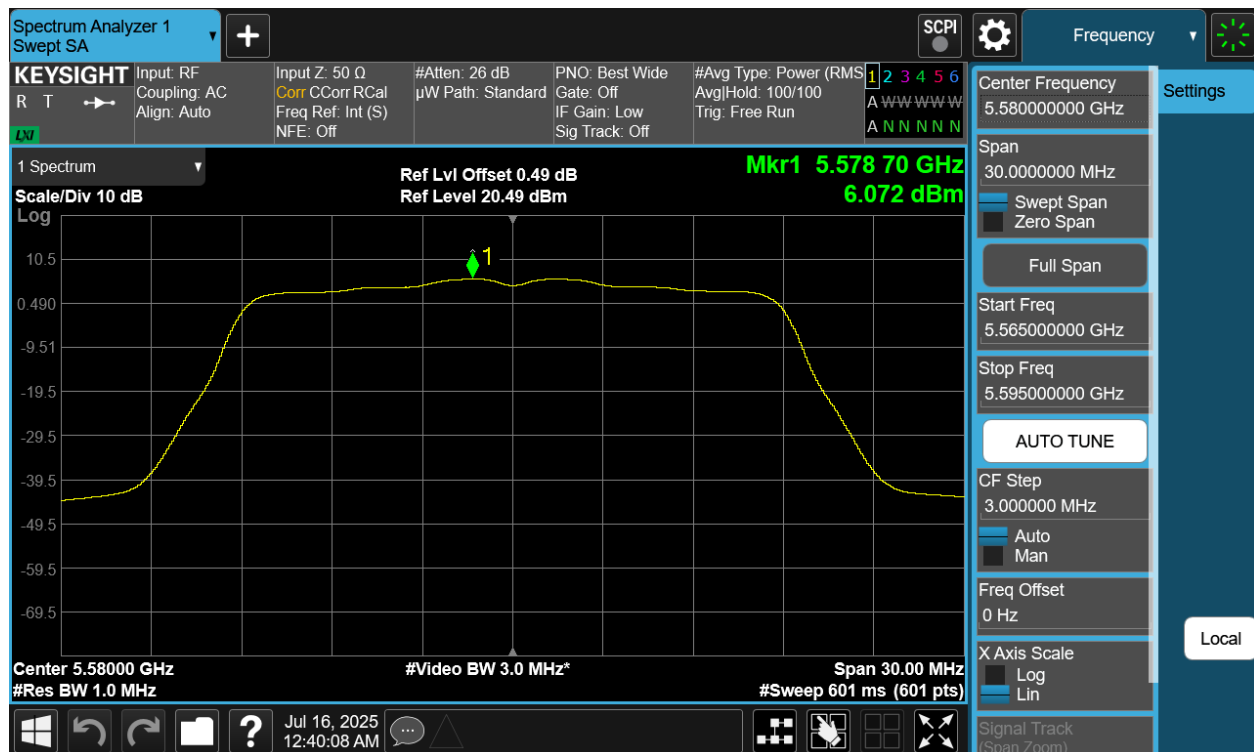
FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 65 of 134

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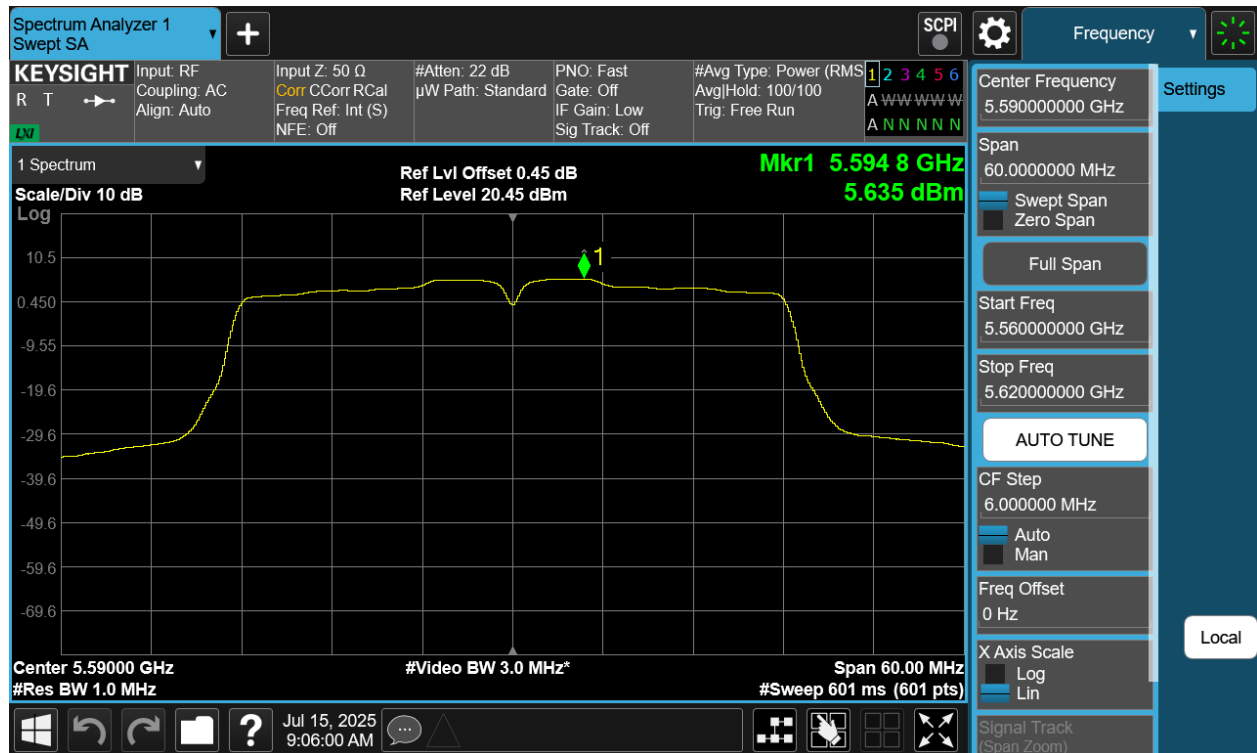


Plot 7-31 PSD CDD Ant1 (20MHz BW 802.11n - Ch.116)

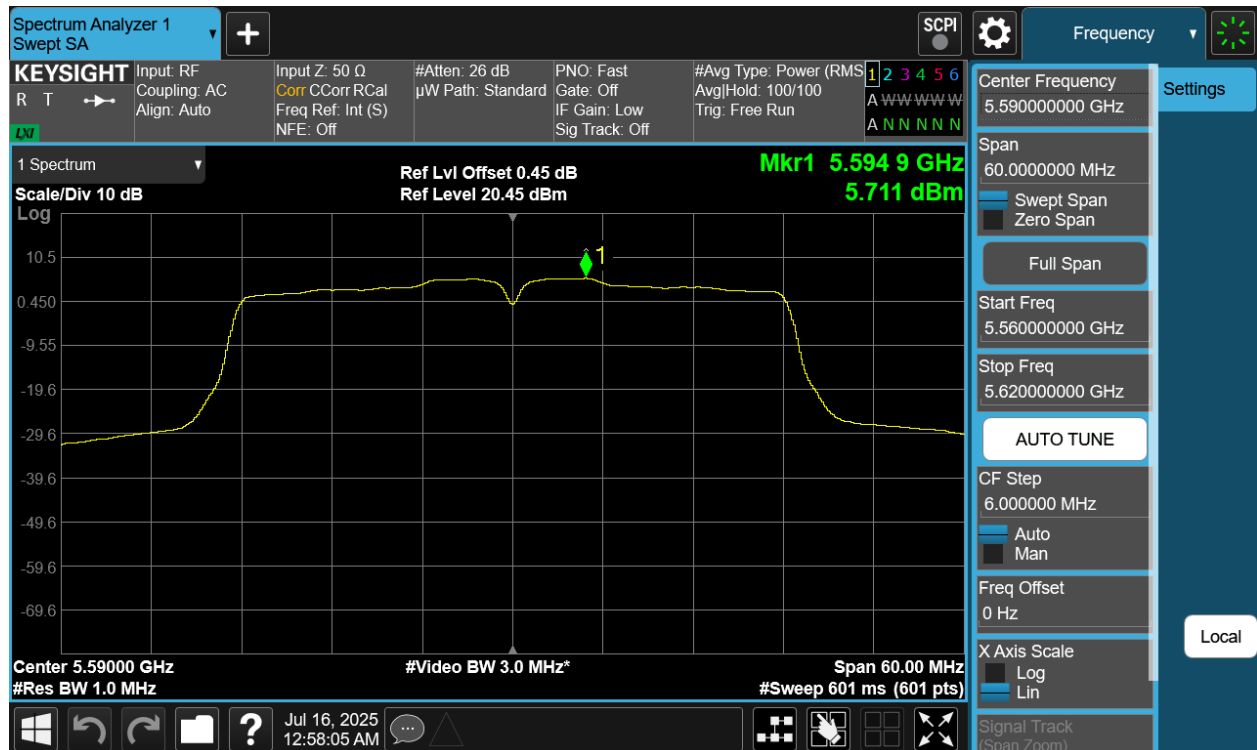


Plot 7-32 PSD CDD Ant2 (20MHz BW 802.11n - Ch.116)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 66 of 134

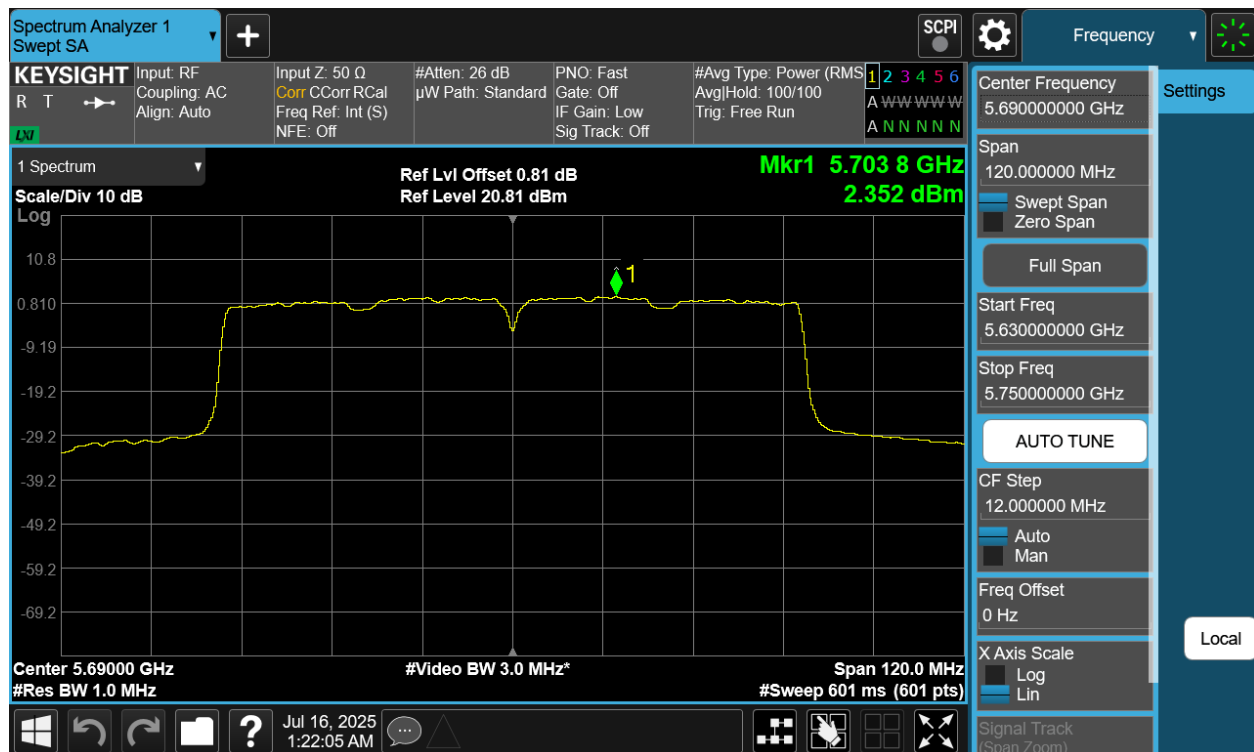


Plot 7-33 PSD CDD Ant1 (40MHz BW 802.11n - Ch.118)



Plot 7-34 PSD CDD Ant2 (40MHz BW 802.11n - Ch.118)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 67 of 134



FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 68 of 134

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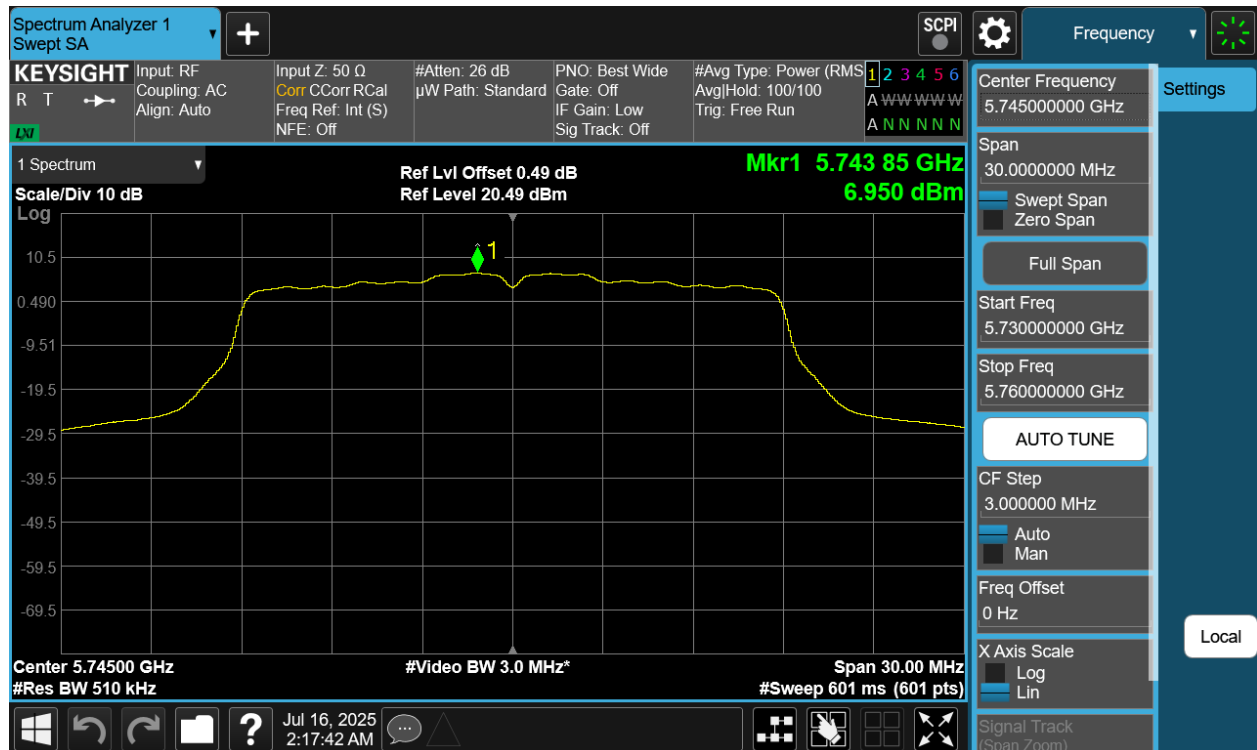
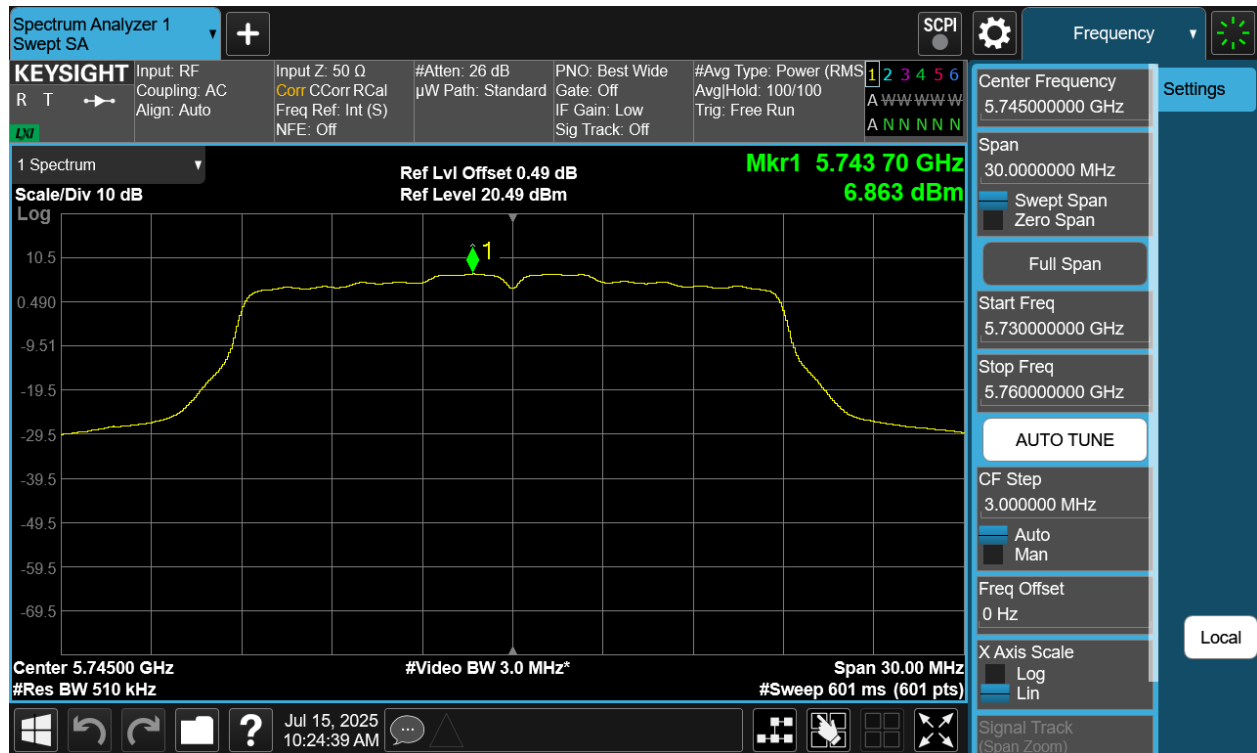
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	Frequency [MHz]	Channel	802.11 MODE	Mode	Data Rate	Antenna Ant1 Power Density [dBm/500kHz]	Antenna Ant2 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	CDD	MCS12	6.86	6.95	9.92	30.0	-20.08
	5785	157	n (20MHz)	CDD	MCS10	6.90	6.61	9.77	30.0	-20.23
	5825	165	n (20MHz)	CDD	MCS12	6.92	6.52	9.73	30.0	-20.27
	5745	149	ax (SU) (20MHz)	CDD	MCS11	5.27	5.52	8.41	30.0	-21.59
	5785	157	ax (SU) (20MHz)	CDD	MCS11	5.42	5.29	8.37	30.0	-21.63
	5825	165	ax (SU) (20MHz)	CDD	MCS11	5.35	5.51	8.44	30.0	-21.56
	5755	151	n (40MHz)	CDD	MCS10	3.20	3.06	6.14	30.0	-23.86
	5795	159	n (40MHz)	CDD	MCS12	3.73	3.87	6.81	30.0	-23.19
	5755	151	ax (SU) (40MHz)	CDD	MCS11	2.54	2.63	5.59	30.0	-24.41
	5795	159	ax (SU) (40MHz)	CDD	MCS11	2.74	2.72	5.74	30.0	-24.26
	5775	155	ac (80MHz)	CDD	MCS4	-1.40	-1.03	1.80	30.0	-28.20
	5775	155	ax (SU) (80MHz)	CDD	MCS11	-3.90	-3.65	-0.76	30.0	-30.76

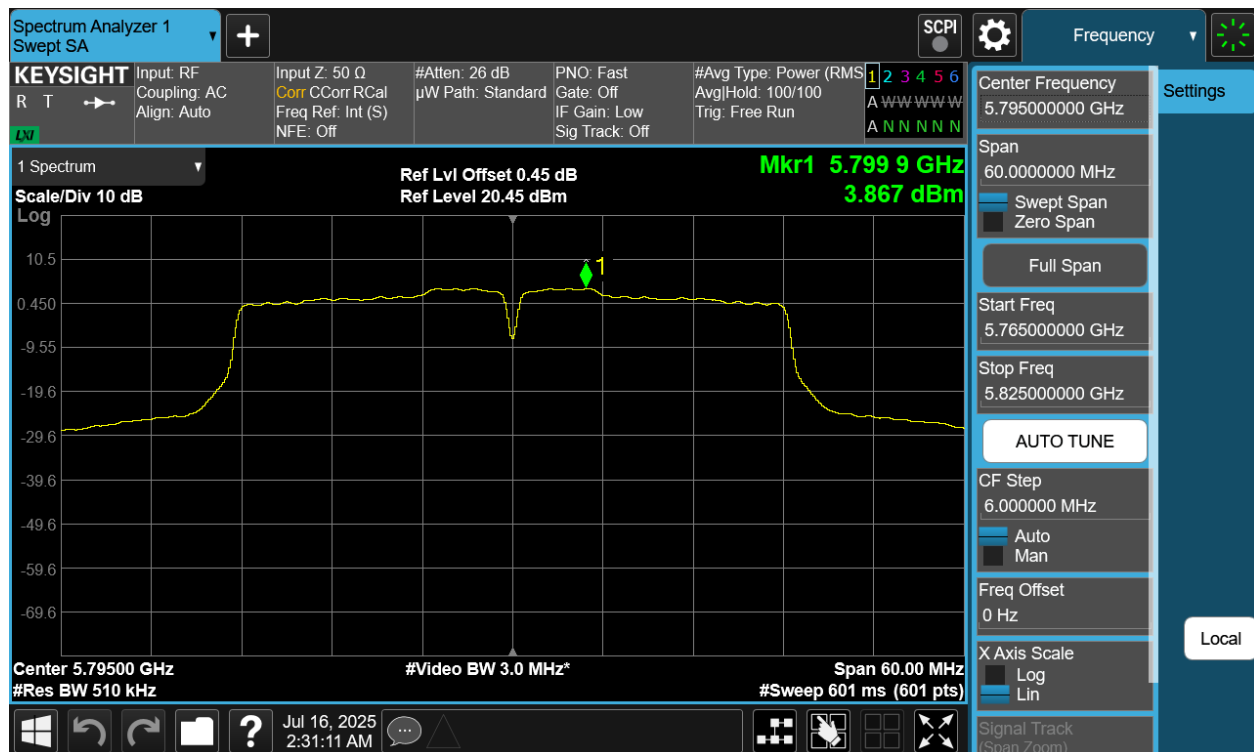
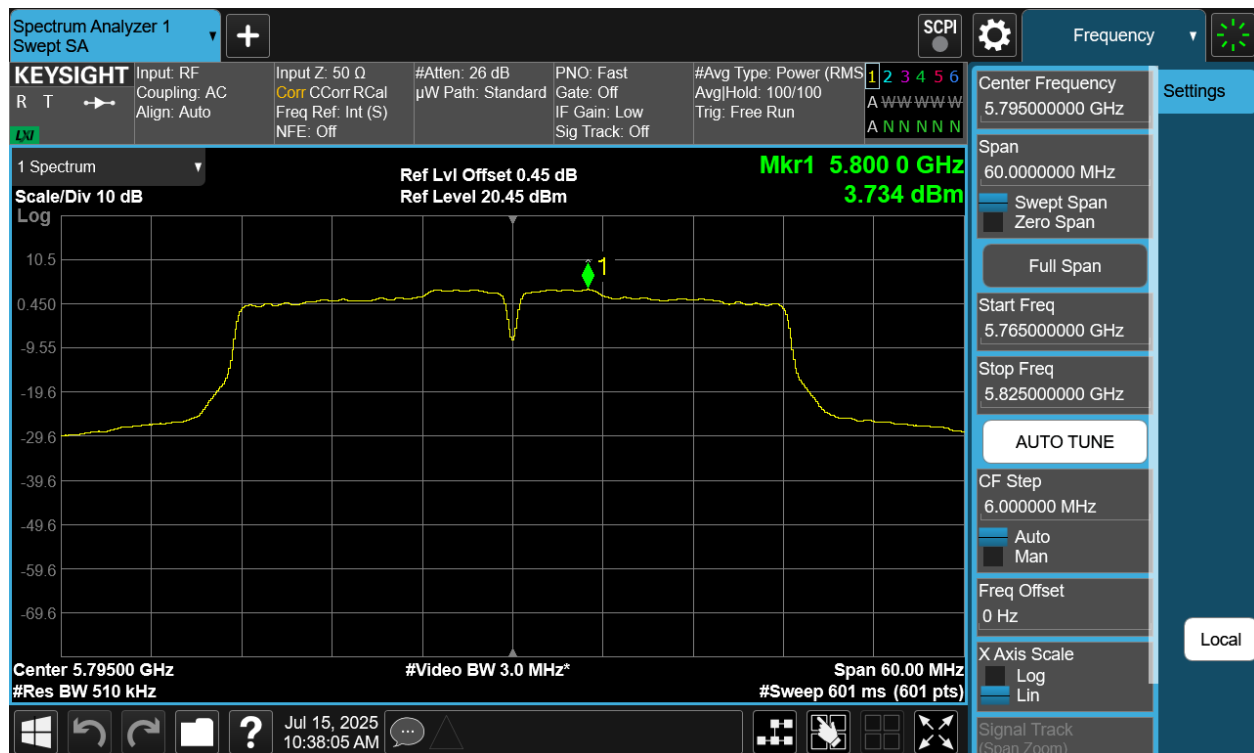
Table 7-53. Band 3 Power Spectral Density Measurements CDD

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 69 of 134

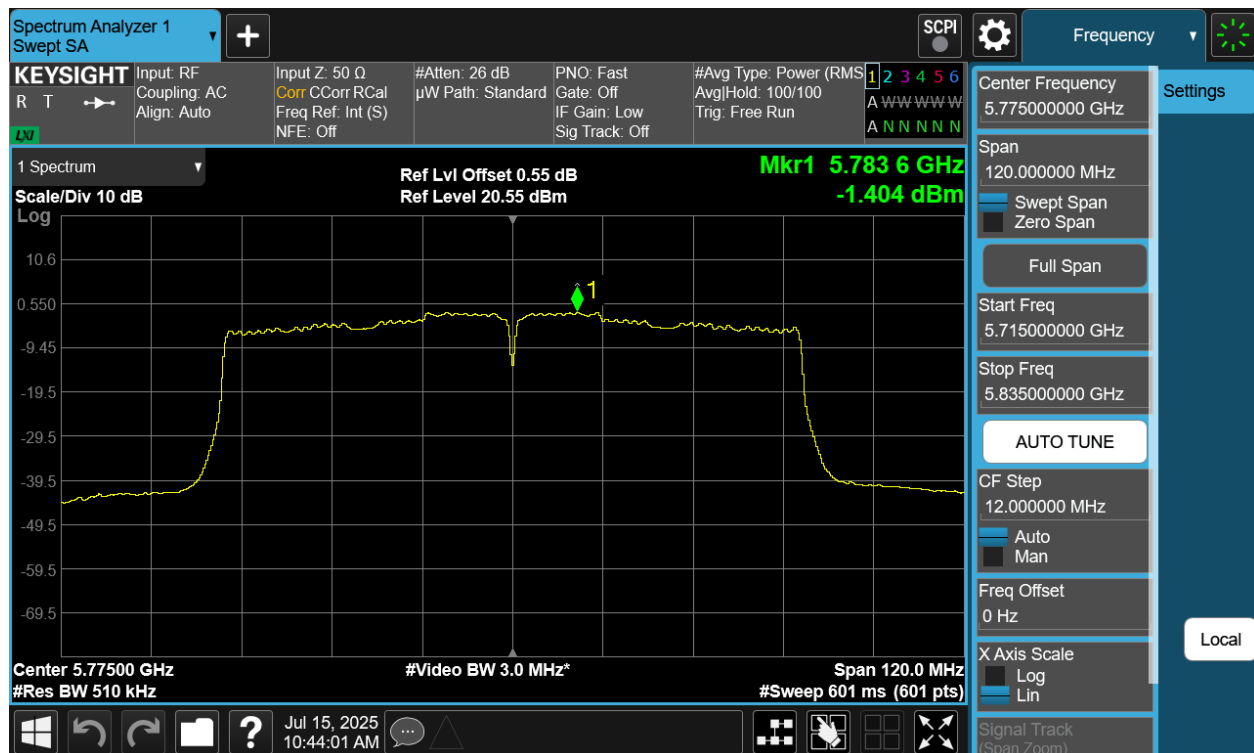
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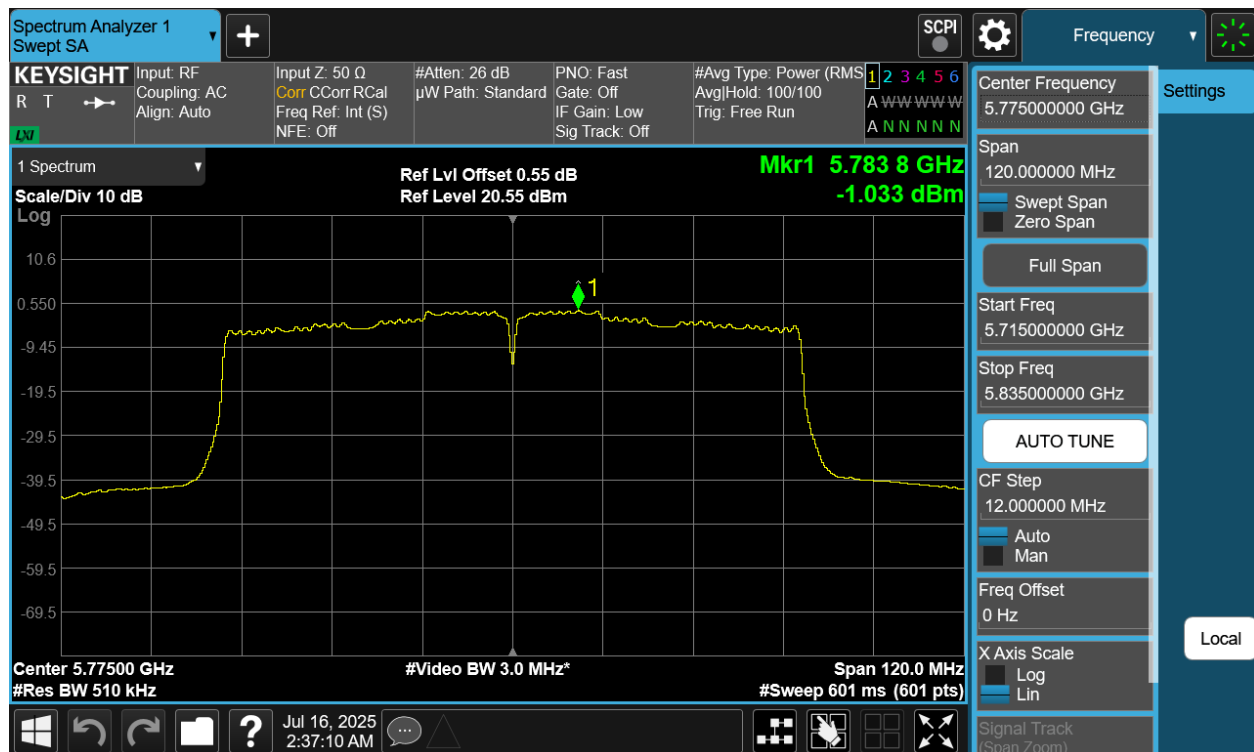
FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 70 of 134



FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 71 of 134



Plot 7-41 PSD CDD Ant1 (80MHz BW 802.11ac - Ch.155)



Plot 7-42 PSD CDD Ant2 (80MHz BW 802.11ac - Ch.155)

FCC ID: BCGA3416 IC: 579C-A3416	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 72 of 134

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	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate	Antenna Ant1 Power Density [dBm/MHz]	Antenna Ant2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directoinal Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	SDM	MCS12	1.97	1.72	4.86	2.92	7.78	10.0	-2.22
	5200	40	n (20MHz)	SDM	MCS10	1.99	1.90	4.95	2.92	7.87	10.0	-2.13
	5240	48	n (20MHz)	SDM	MCS12	1.53	1.48	4.51	2.92	7.43	10.0	-2.57
	5180	36	ax (SU) (20MHz)	SDM	MCS4	0.26	0.27	3.27	2.92	6.19	10.0	-3.81
	5200	40	ax (SU) (20MHz)	SDM	MCS2	0.30	0.16	3.24	2.92	6.16	10.0	-3.84
	5240	48	ax (SU) (20MHz)	SDM	MCS11	0.17	-0.30	2.95	2.92	5.87	10.0	-4.13
	5190	38	n (40MHz)	SDM	MCS10	1.43	1.19	4.32	2.92	7.24	10.0	-2.76
	5230	46	n (40MHz)	SDM	MCS10	1.27	0.80	4.05	2.92	6.97	10.0	-3.03
	5190	38	ax (SU) (40MHz)	SDM	MCS2	-1.99	-1.84	1.10	2.92	4.01	10.0	-5.99
	5230	46	ax (SU) (40MHz)	SDM	MCS11	-0.38	-0.09	2.78	2.92	5.70	10.0	-4.30
	5210	42	ac (80MHz)	CDD	MCS2	-4.59	-4.64	-1.60	5.92	4.32	10.0	-5.68
	5210	42	ax (SU) (80MHz)	CDD	MCS2	-6.48	-6.54	-3.50	5.92	2.42	10.0	-7.58

Table 7-54. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-06.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 73 of 134

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