

MEASUREMENT REPORT

FCC PART 15.407 / ISSED RSS-248 UNII 6GHz OFDMA 802.11ax(RU)

Applicant Name:

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

Date of Testing:

3/24/2025 - 6/20/2025

Test Report Issue Date:

9/23/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2503170028-12-R3.BCG

FCC ID:

BCGA3300

IC:

579C-A3300

APPLICANT:

Apple Inc.

Application Type:

Apple Inc.

Model/HVIN:

A3300

EUT Type:

Smart Speaker with Display

Frequency Range:

6115 – 7095MHz

Modulation Type:

OFDMA

FCC Classification:

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

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISSED Specification:

RSS-248 Issue 3

Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, KDB 789033 D02 v02r01
KDB 662911 D01 v02r01, KDB 987594 D02 v03
KDB 987594 D03 v03r04, KDB 987594 D04 v03
KDB 987594 D01 v03r01

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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 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: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Revision Summary

Revision	Date	Comments	Revised By
-	2/4/2026	Initial Release	WKR0000010305
R1	4/2/2026	Updated section 7.5	WKR0000010305
R2	5/28/2026	Revisions for Section 7.4 Tables	WKR016696
R3	9/21/2026	Addressed comment in section 7	WKR007077

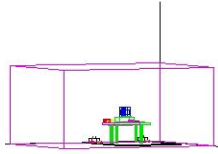
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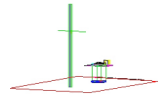
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UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				SDM	
				Antenna 0		Antenna 1		Summed	
				Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)
5	20	802.11ax	6115 - 6415	2.917	4.65	1.637	2.14	3.004	4.78
6		802.11ax	6435 - 6515	2.438	3.87	1.186	0.74	2.549	4.06
7		802.11ax	6535 - 6875	2.432	3.86	0.817	-0.88	2.433	3.86
8		802.11ax	6895 - 7095	2.328	3.67	1.042	0.18	2.739	4.38
5	40	802.11ax	6115 - 6415	5.023	7.01	1.637	2.14	5.281	7.23
6		802.11ax	6445 - 6525	4.477	6.51	1.186	0.74	4.511	6.54
7		802.11ax	6565 - 6845	4.645	6.67	0.817	-0.88	4.296	6.33
8		802.11ax	6885 - 7085	4.055	6.08	1.042	0.18	4.727	6.75
5	80	802.11ax	6115 - 6415	10.544	10.23	1.637	2.14	10.610	10.26
6		802.11ax	6465	8.690	9.39	1.186	0.74	9.148	9.61
7		802.11ax	6545 - 6865	8.375	9.23	0.817	-0.88	8.261	9.17
8		802.11ax	6945 - 7025	7.482	8.74	1.042	0.18	8.945	9.52
5	160	802.11ax	6115 - 6415	17.498	12.43	1.637	2.14	19.575	12.92
6		802.11ax	6505	16.255	12.11	1.186	0.74	15.751	11.97
7		802.11ax	6665 - 6825	15.241	11.83	0.817	-0.88	15.243	11.83
8		802.11ax	6985	12.359	10.92	1.042	0.18	16.314	12.13

EUT Overview

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	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 test laboratory with the site description on file with ISED (Wireless Test Lab number 22831) and FCC (Designation Number US1163).
- 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 Smart Speaker with Display FCC ID: BCGA3300 and IC: 579C-A3300**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band.

Test Device Serial No.: HP34WHV7XM, FQYJTXNHYW, YGYD3JMXM, F0THEP000410000NGQ, HV6HEQ0001R0000NGQ, FPQR7MJ2N1

2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE1M, LE2M)

The device supports channel bandwidth reduction and does not support channel puncturing.

VLP channels below 6105 MHz in the UNII-5 band are disabled in the US and its territories.

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Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
33	6115	97	6435	117	6535	189	6895
:	:	:	:	:	:	:	:
65	6275	105	6475	149	6695	209	6995
:	:	:	:	:	:	:	:
93	6415	113	6515	181	6875	229	7095

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
35	6125	99	6445	123	6565	187	6885
:	:	:	:	:	:	:	:
67	6285	107	6485	155	6725	211	7005
:	:	:	:	:	:	:	:
91	6405	115	6525	179	6833	227	7085

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
39	6145	103	6465	135	6533	199	6933
:	:			:	:	:	:
71	6305			151	6705	215	7025
:	:			:	:		
87	6385			183	6865		

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
47	6185	111	6505	143	6665	207	6985
:	:			:	:		
79	6333			175	6825		

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

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Notes:

- 6GHz UNII operation is possible in 20MHz, 40MHz, 80MHz and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) KDB 789033 D02 v02r01 and ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024. 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		Measured Duty Cycles					
		Antenna 0		Antenna 1		CDD/SDM	
		[%]	DCCF [dB]	[%]	DCCF [dB]	[%]	DCCF [dB]
6GHz	11ax(RU52) (20MHz)	98.58	0.062	98.31	0.074	98.54	0.064
	11ax(RU106) (20MHz)	98.70	0.057	98.00	0.088	98.63	0.060
	11ax(RU242) (20MHz)	98.42	0.069	98.06	0.085	98.29	0.075
	11ax(RU52) (40MHz)	98.58	0.062	98.74	0.055	98.95	0.046
	11ax(RU106) (40MHz)	98.70	0.057	98.00	0.088	98.63	0.060
	11ax(RU484) (40MHz)	96.80	0.141	96.81	0.141	97.00	0.132
	11ax(RU52) (80MHz)	98.30	0.074	98.31	0.074	98.30	0.074
	11ax(RU106) (80MHz)	98.70	0.057	98.00	0.088	98.63	0.060
	11ax(RU996) (80MHz)	94.49	0.246	94.78	0.233	94.32	0.254
	11ax(RU52) (160MHz)	98.31	0.074	100.00	0.000	98.31	0.074
	11ax(RU106) (160MHz)	98.70	0.057	98.00	0.088	98.63	0.060
	11ax(RU996x2) (160MHz)	94.43	0.249	94.19	0.260	90.64	0.427

Table 2-5. Measured Duty Cycles

CDD/SDM = Antenna 0 + Antenna 1

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

WiFi Configurations		SISO		CDD		SDM		STBC	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
6GHz	11ax(RU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(RU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(RU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(RU) (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-6. WIFI Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

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

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

Table 2-7. Supported Data Rates

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

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	WIFI 5GHz	WIFI 6GHz
		BDR, EDR, LE1/2M	802.15.4	802.11 b/g/ac/ax	802.11 a/n/ac/ax	802.11 a/ax
Antenna 0	Config 1	✓	✗	✗	✓	✗
Antenna 1	Config 2	✗	✓	✗	✓	✗
Antenna 0	Config 3	✓	✗	✗	✗	✓
Antenna 1	Config 4	✗	✓	✗	✗	✓

Table 2-8. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 1 and reported in RF 802.15.4 and RF UNII test reports.

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2.3 Antenna Description

Following antennas gains provided by manufacturer were used for testing. The validity of the calculated results is based on the accuracy of the information provided.

UNII Band	Highest Antenna Gain (dBi)		Lowest Antenna Gain (dBi)	
	Antenna 0	Antenna 1	Antenna 0	Antenna 1
5	1.87	2.14	1.38	1.46
6	1.73	0.74	1.73	0.74
7	-1.02	-0.88	-2.77	-2.73
8	-0.26	0.18	-2.20	-0.99

Table 2-9. Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141 Model: A2166	S/N: C02H604EQ05D S/N: C4H042705ZNP0WA6
2	Apple USB-C Cable	Model: Banana Split	S/N: 200730
3	USB-C Cable w/ AC Adapter	Model: A246C Model: A2305	S/N: DWH80115BK826GV19 S/N: C4H95160004PF4F4V
4	Smart Speaker w/ Display	Model: A3218	S/N: GTD46927RT

Table 2-10. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, KDB 789033 D02 v02r01 and KDB 987594 D02 v02r01. ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4 and 7.5 for antenna port conducted emissions test setups.

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

The EUT was placed in one orthogonal plane of 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 an AC/DC Adapter via USB-C cable

For 802.11ax-SU test results, see separate UNII 6GHz OFDM report, 1C2503170028-11-R3.BCG.

2.6 Software and Firmware

The test was conducted with firmware version 22w173 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

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

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

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

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

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3.3 Radiated Emissions

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

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

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

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

3.4 Environmental Conditions

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

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

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

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	1.77
Line Conducted Disturbance	2.70
Radiated Disturbance (<30MHz)	4.38
Radiated Disturbance (30MHz - 1GHz)	4.75
Radiated Disturbance (1 - 18GHz)	5.20
Radiated Disturbance (>18GHz)	4.72

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Anritsu	ML2495A	Power Meter	7/8/2024	Annual	7/8/2025	1039008
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058701-02
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/4/2024	Annual	9/4/2025	205956
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted Cable *	6/10/2024	Annual	6/10/2025	-
Fairview Microwave	FM2CP1122-10	Directional Coupler *	6/10/2024	Annual	6/10/2025	1946
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Keysight Technology	N9030A	PXA Signal Analyzer	7/11/2024	Annual	7/11/2025	MY49430244
Mini-Circuits	ZN2PD-9G	Power Splitter*	8/16/2024	Annual	8/16/2025	SF456200530
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	7/12/2024	Annual	7/12/2025	101363
Rohde & Schwarz	SMW200A	Vector Signal Generator	4/4/2024	Annual	4/4/2025	109456
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

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: BCGA3300
 IC: 579C-A3300
 FCC Classification: 15E 6GHz Very Low Power Device (6VL)

FCC Part Section(s) / KDB Reference	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049, 15.407(a)(11)	RSS-Gen [5.1], RSS-248 [4.4]	Occupied Bandwidth/ 26 dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands < 320 MHz (5.925 - 7.125 GHz)	CONDUCTED	PASS	Section 7.2
15.407(a)(9)	RSS-248 [4.5.6]	Maximum Power Spectral Density	< -5 dBm/MHz e.i.r.p for Very Low Power		PASS	Section 7.4
15.407(a)(9)	RSS-248 [4.5.6]	Maximum Radiated Output Power	< 14 dBm over the frequency band of operation for Very Low Power		PASS	Section 7.3
15.407(b)(7)	RSS-248 [4.6.2]	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7) and RSS-248 [4.6.2] b)		PASS	Section 7.5
15.407(d)(6)	RSS-248 [4.7]	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	Section 7.6
15.407(d.10)	RSS-248[4.5.6]	Transmit Power Control	EUT must employ a TPC mechanism to operate 6 dB below the maximum EIRP PSD value of -5 dBm/MHz		PASS	See UNII 6 GHz OFDM Report(1C250317 0028-11-R3.BCG)
15.407(b)(6)	RSS-248 [4.6.2]	Undesirable Emissions	< -27 dBm/MHz e.i.r.p. outside of the 5.925 – 7.125 GHz band	RADIATED	PASS	Section 7.6
15.205, 15.209	RSS-248 [4.6.2] RSS-Gen [7.4.3]	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 [7.4.3])		PASS	Section 7.6
15.407(b)(9)	RSS-Gen [7.4.2]	AC Conducted Emissions (150 kHz – 30 MHz)	< FCC 15.207 (RSS-Gen [7.4.2]) limits	LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

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

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7.2 26dB & 99% Bandwidth Measurement

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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

In the 5.925 – 7.125GHz band, the channel bandwidth must be < 320MHz.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.5.2
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = in the range of 1% to 5% of the emission bandwidth
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold

Test Setup

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



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

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

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7.2.1 Antenna 0 26dB & 99% Bandwidth Measurements – VLP

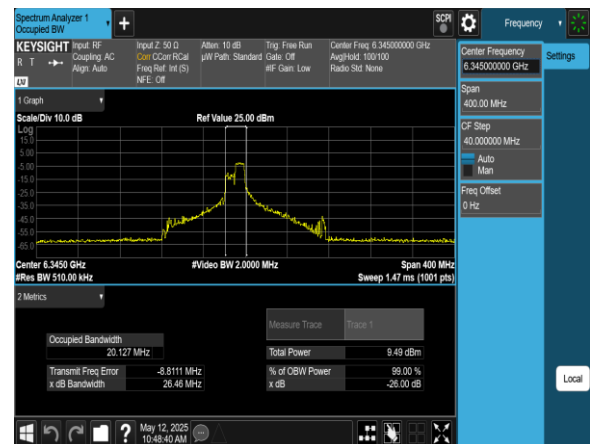
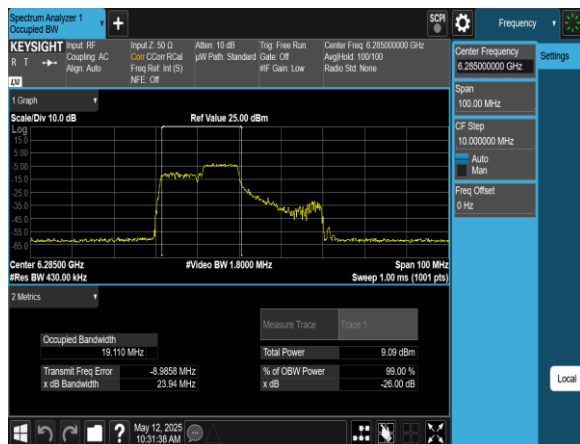
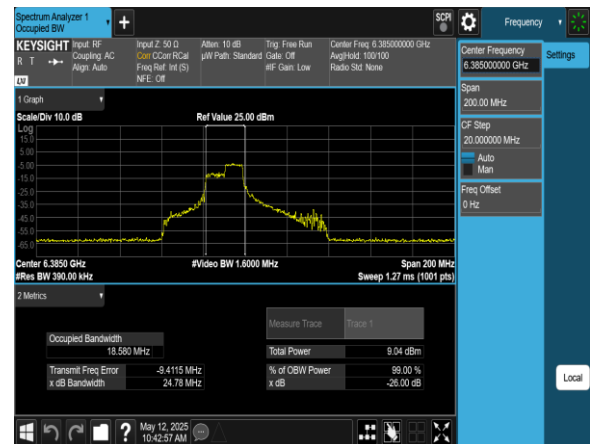
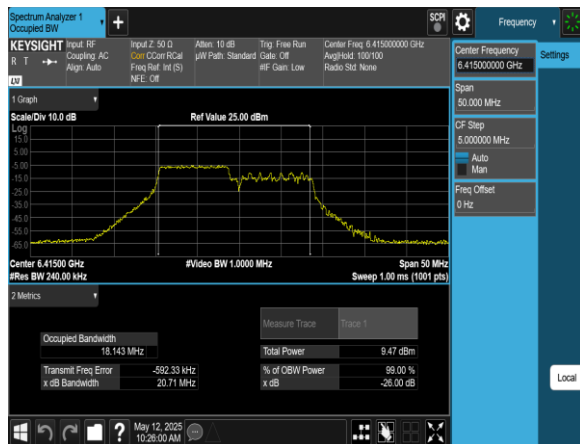
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5935	33	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.18	20.16	320	Pass
	5935	33	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.15	20.70	320	Pass
	6175	65	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.10	20.33	320	Pass
	6175	65	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.16	20.60	320	Pass
	6415	93	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.14	20.71	320	Pass
	6415	93	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.18	20.49	320	Pass
	5965	35	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.57	18.99	320	Pass
	5965	35	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.72	23.86	320	Pass
	5965	35	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.51	19.22	320	Pass
	6165	67	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.55	18.98	320	Pass
	6165	67	ax (40MHz)	106	54	12.5/14.7 (MCS11)	19.11	23.94	320	Pass
	6165	67	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.47	19.08	320	Pass
	6165	91	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.57	18.95	320	Pass
	6165	91	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.70	22.93	320	Pass
	6165	91	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.43	19.17	320	Pass
	5985	39	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.96	20.64	320	Pass
	5985	39	ax (80MHz)	106	56	12.5/14.7 (MCS11)	18.28	24.59	320	Pass
	5985	39	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.78	20.13	320	Pass
	6145	71	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.79	20.27	320	Pass
	6145	71	ax (80MHz)	106	56	12.5/14.7 (MCS11)	18.34	23.92	320	Pass
	6145	71	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.66	19.64	320	Pass
	6385	87	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.77	20.03	320	Pass
	6385	87	ax (80MHz)	106	56	12.5/14.7 (MCS11)	18.58	24.78	320	Pass
	6385	87	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.75	19.82	320	Pass
	6185	47(L)	ax (160MHz)	106	53	12.5/14.7 (MCS11)	18.10	20.09	320	Pass
	6185	47(L)	ax (160MHz)	106	60	12.5/14.7 (MCS11)	19.82	26.34	320	Pass
	6185	47(H)	ax (160MHz)	106	60	12.5/14.7 (MCS11)	18.02	19.69	320	Pass
	6345	79(L)	ax (160MHz)	106	53	12.5/14.7 (MCS11)	18.04	19.77	320	Pass
	6345	79(L)	ax (160MHz)	106	56	12.5/14.7 (MCS11)	20.13	26.46	320	Pass
	6345	79(H)	ax (160MHz)	106	60	12.5/14.7 (MCS11)	17.57	18.78	320	Pass
Band 6	6345	97	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.04	20.22	320	Pass
	6345	97	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.19	20.40	320	Pass
	6475	105	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.16	20.50	320	Pass
	6475	105	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.20	20.69	320	Pass
	6515	113	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.17	20.30	320	Pass
	6515	113	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.09	20.70	320	Pass
	6445	99	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.60	19.07	320	Pass
	6445	99	ax (40MHz)	106	54	12.5/14.7 (MCS11)	19.13	24.96	320	Pass
	6445	99	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.48	19.21	320	Pass
	6485	107	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.56	18.98	320	Pass
	6485	107	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.61	22.59	320	Pass
	6485	107	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.49	19.19	320	Pass
	6525	115	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.58	18.99	320	Pass
	6525	115	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.75	23.60	320	Pass
	6525	115	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.45	19.03	320	Pass
	6465	103	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.90	20.27	320	Pass
	6465	103	ax (80MHz)	106	56	12.5/14.7 (MCS11)	18.12	24.05	320	Pass
	6465	103	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.82	20.27	320	Pass
	6505	111(L)	ax (160MHz)	106	53	12.5/14.7 (MCS11)	18.10	20.03	320	Pass
	6505	111(L)	ax (160MHz)	106	56	12.5/14.7 (MCS11)	19.38	26.09	320	Pass
	6505	111(H)	ax (160MHz)	106	60	12.5/14.7 (MCS11)	17.99	20.22	320	Pass
	6535	117(L)	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.28	20.30	320	Pass
	6535	117(L)	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.91	18.24	320	Pass
	6535	117(H)	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.24	20.15	320	Pass
	6695	149	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.19	20.24	320	Pass
	6695	149	ax (20MHz)	52	39	12.5/14.7 (MCS11)	17.01	18.36	320	Pass
	6695	149	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.23	20.43	320	Pass
	6875	185	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.21	20.30	320	Pass
	6875	185	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.97	18.25	320	Pass
	6875	185	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.07	20.09	320	Pass
	6565	123	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.43	18.83	320	Pass
	6565	123	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.00	21.78	320	Pass
	6565	123	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.48	18.95	320	Pass
	6725	155	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.62	18.95	320	Pass
	6725	155	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.26	22.15	320	Pass
	6725	155	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.45	18.89	320	Pass
	6845	179	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.28	18.95	320	Pass
	6845	179	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.12	22.32	320	Pass
	6845	179	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.54	19.05	320	Pass
Band 7	6545	119	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.78	19.12	320	Pass
	6545	119	ax (80MHz)	106	56	12.5/14.7 (MCS11)	17.23	21.33	320	Pass
	6545	119	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.75	20.07	320	Pass
	6705	151	ax (80MHz)	52	37	12.5/14.7 (MCS11)	17.89	19.83	320	Pass
	6705	151	ax (80MHz)	52	44	12.5/14.7 (MCS11)	18.78	23.03	320	Pass
	6705	151	ax (80MHz)	52	52	12.5/14.7 (MCS11)	17.83	19.26	320	Pass
	6865	183	ax (80MHz)	52	37	12.5/14.7 (MCS11)	17.91	19.68	320	Pass
	6865	183	ax (80MHz)	52	44	12.5/14.7 (MCS11)	18.45	22.17	320	Pass
	6865	183	ax (80MHz)	52	52	12.5/14.7 (MCS11)	17.71	19.32	320	Pass
	6665	143(L)	ax (160MHz)	52	37	12.5/14.7 (MCS11)	18.06	19.58	320	Pass
	6665	143(L)	ax (160MHz)	52	44	12.5/14.7 (MCS11)	19.14	22.82	320	Pass
	6665	143(H)	ax (160MHz)	52	52	12.5/14.7 (MCS11)	18.06	19.47	320	Pass
	6825	175(L)	ax (160MHz)	52	37	12.5/14.7 (MCS11)	18.09	19.42	320	Pass
	6825	175(L)	ax (160MHz)	52	44	12.5/14.7 (MCS11)	19.62	22.90	320	Pass
	6825	175(H)	ax (160MHz)	52	52	12.5/14.7 (MCS11)	18.02	19.52	320	Pass
	6895	189	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.24	20.29	320	Pass
	6895	189	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.89	18.32	320	Pass
	6895	189	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.26	20.24	320	Pass
	6995	209	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.24	20.09	320	Pass
	6995	209	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.85	18.20	320	Pass
	6995	209	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.18	20.85	320	Pass
	7095	229	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.28	20.40	320	Pass
	7095	229	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.81	18.35	320	Pass
	7095	229	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.21	20.09	320	Pass
	6885	187	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.55	18.86	320	Pass
	6885	187	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.04	22.22	320	Pass
	6885	187	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.45	18.96	320	Pass
	7005	211	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.63	18.94	320	Pass
	7005	211	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.08	22.09	320	Pass
	7005	211	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.48	18.89	320	Pass
	7085	227	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.43	18.97	320	Pass
	7085	227	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.21	22.55	320	Pass
	7085	227	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.52	18.94	320	Pass
Band 8	6945	199	ax (80MHz)	52	37	12.5/14.7 (MCS11)	17.94	19.65	320	Pass
	6945	199	ax (80MHz)	52	44	12.5/14.7 (MCS11)	18.81	22.95	320	Pass
	6945	199	ax (80MHz)	52	52	12.5/14.7 (MCS11)	17.72	19.35	320	Pass
	7025	215	ax (80MHz)	52	37	12.5/14.7 (MCS11)	17.92	19.78	320	Pass
	7025	215	ax (80MHz)	52	44	12.5/14.7 (MCS11)	18.99	23.28	320	Pass
	7025	215	ax (80MHz)	52	52	12.5/14.7 (MCS11)	17.83	19.32	320	Pass
	6985	207(L)	ax (160MHz)	52	37	12.5/14.7 (MCS11)	18.13	19.66	320	Pass
	6985	207(L)	ax (160MHz)	52	40	12.5/14.7 (MCS11)	20.56	24.50	320	Pass
	6985	207(H)	ax (160MHz)	52	52	12.5/14.7 (MCS11)	18.00	19.51	320	Pass

Table

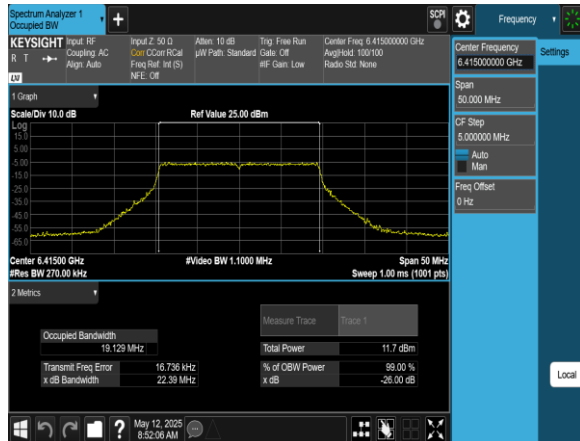
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5935	33	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.07	22.36	320	Pass
	6175	65	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.10	22.19	320	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.13	22.39	320	Pass
	5965	35	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.87	39.90	320	Pass
	6165	67	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	39.95	320	Pass
	6165	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	39.95	320	Pass
	5985	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.56	80.75	320	Pass
	6145	71	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.56	80.66	320	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.48	80.62	320	Pass
	6185	47	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.87	162.37	320	Pass
Band 6	6345	79	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.81	162.47	320	Pass
	6345	97	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.13	22.37	320	Pass
	6475	105	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.11	22.53	320	Pass
	6515	113	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.13	22.34	320	Pass
	6445	99	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.93	39.85	320	Pass
	6485	107	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.89	39.94	320	Pass
	6525	115	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	39.82	320	Pass
	6465	103	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.55	80.74	320	Pass
	6505	111	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.89	163.01	320	Pass
	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.11	22.34	320	Pass
Band 7	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.10	22.49	320	Pass
	6875	185	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.10	22.38	320	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	39.90	320	Pass
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	39.95	320	Pass
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.96	39.92	320	Pass
	6545	119	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.78	80.76	320	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.53	80.76	320	Pass
	6865	183	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.62	80.76	320	Pass
	6665	143	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.77	162.36	320	Pass
	6825	175	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.67	162.30	320	Pass
Band 8	6895	189	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.11	22.22	320	Pass
	6995	209	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.12	22.15	320	Pass
	7115	229	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.11	22.62	320	Pass
	6885	187	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	39.87	320	Pass
	7005	211	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	39.95	320	Pass
	7085	227	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.89	39.86	320	Pass
	6945	199	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.52	80.78	320	Pass
	7025	215	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.51	80.71	320	Pass
	6985	207	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.68	162.47	320	Pass

Table 7-3. Conducted Bandwidth Measurements Antenna 0 (Fully – Loaded RU)

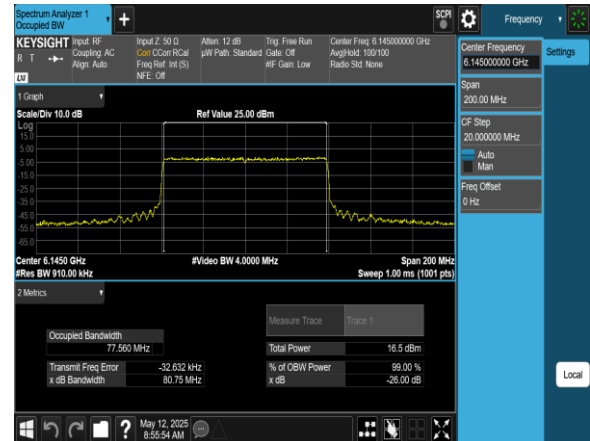
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 20 of 198



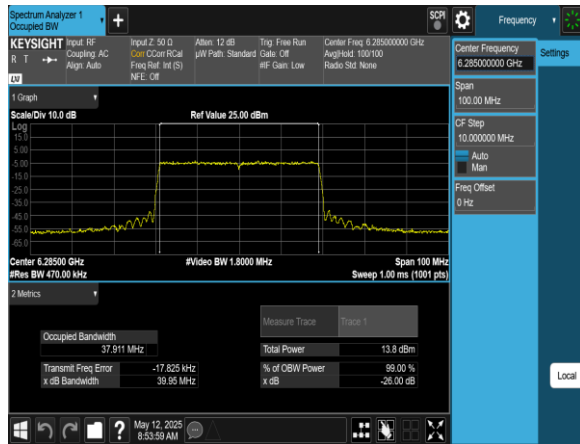
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 21 of 198



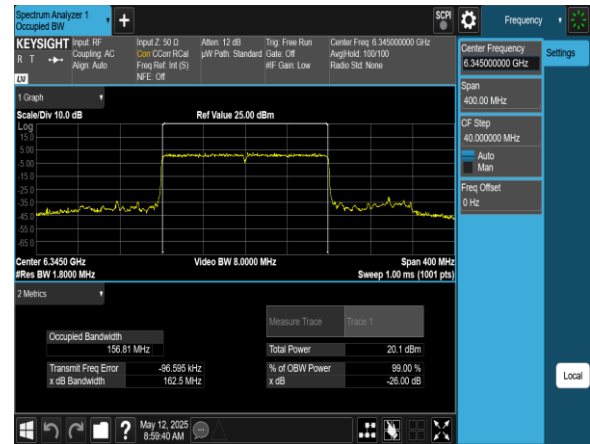
Plot 7-5. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 93)



Plot 7-7. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 39)

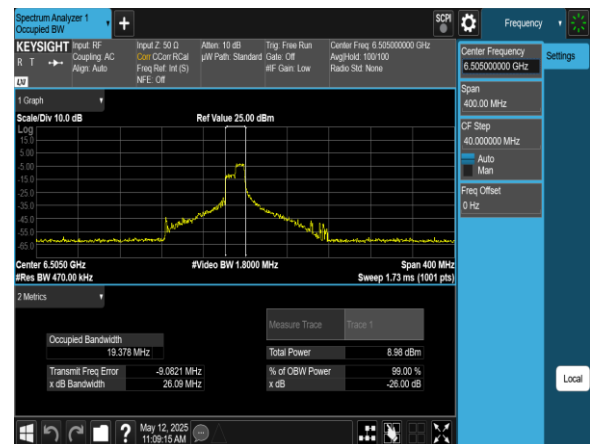
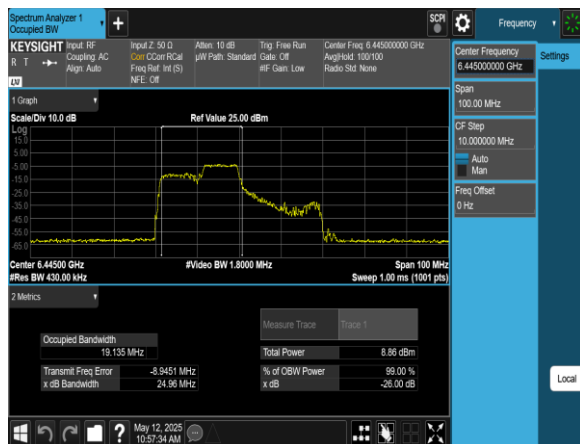
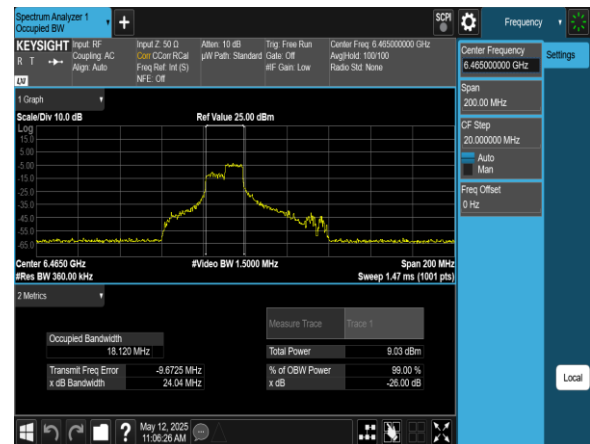
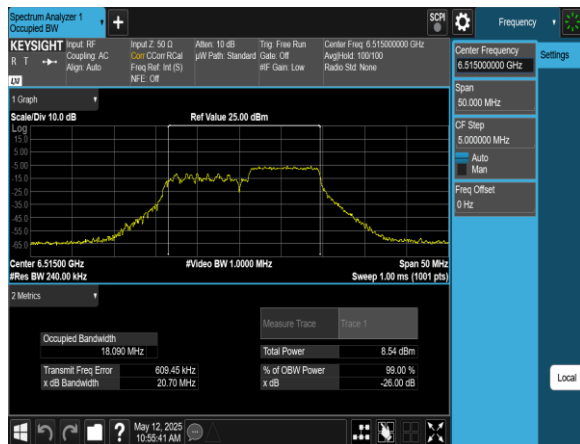


Plot 7-6. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 67)

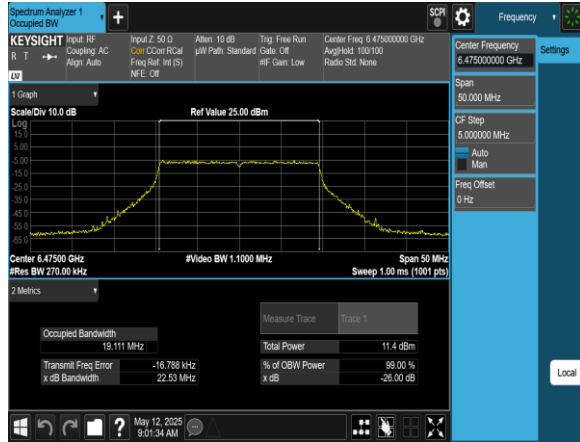


Plot 7-8. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 79)

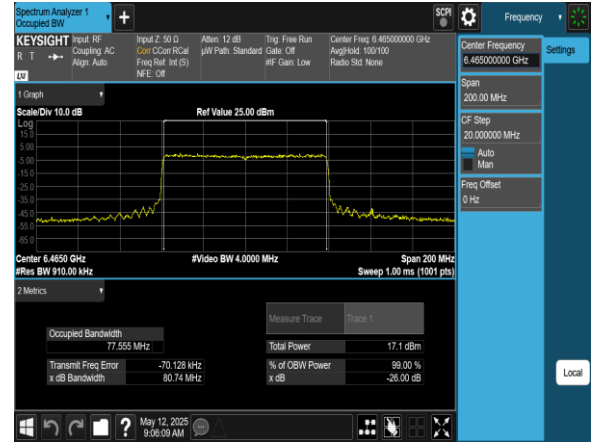
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



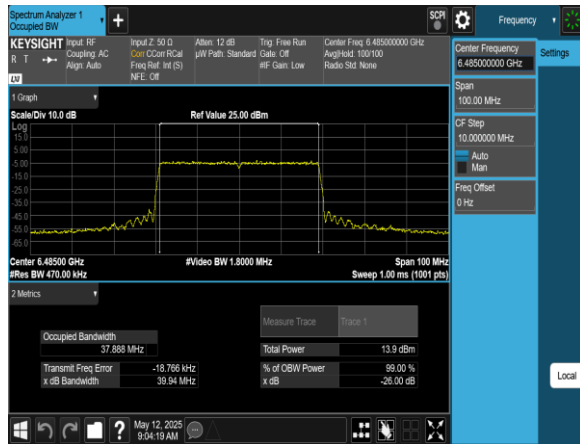
FCC ID: BCGA3300 IC: 579C-A3300	element	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 23 of 198



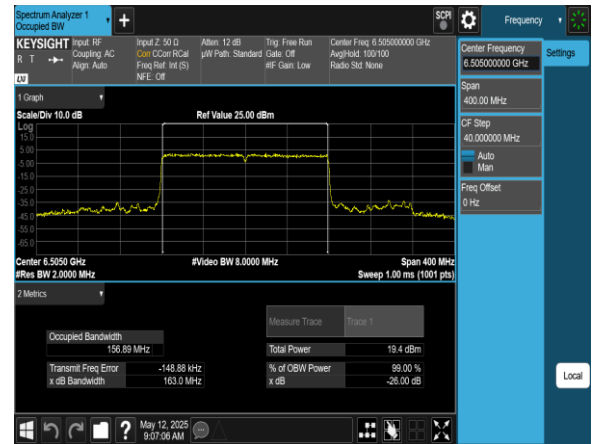
Plot 7-13. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 105)



Plot 7-15. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)

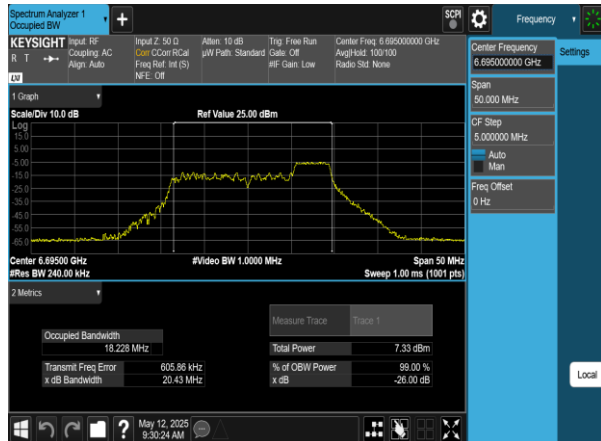


Plot 7-14. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 107)

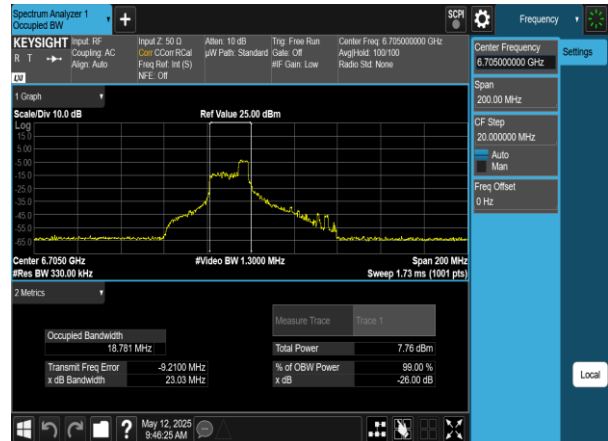


Plot 7-16. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)

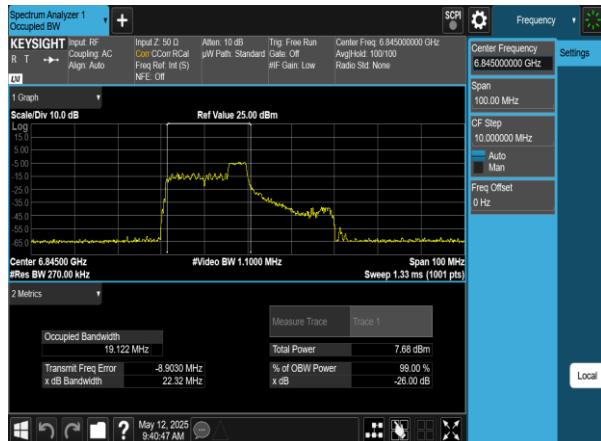
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 24 of 198



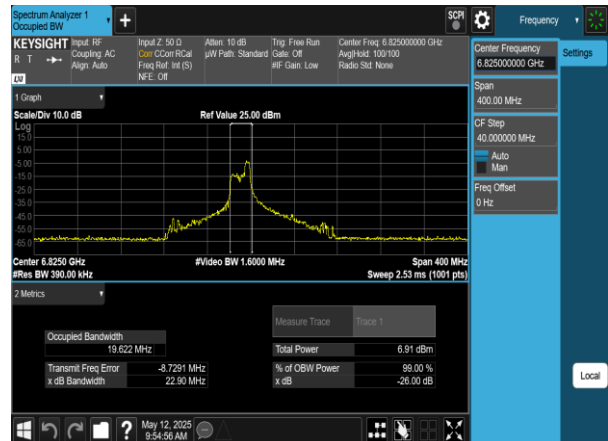
Plot 7-17. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax RU106 (UNII Band 7) – Ch. 149)



Plot 7-19. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax RU106 (UNII Band 7) – Ch. 151)

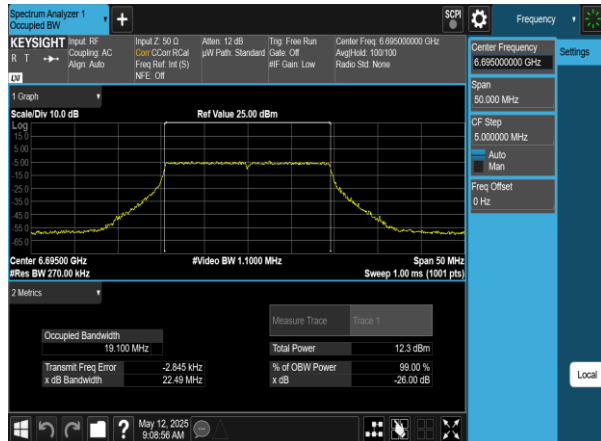


Plot 7-18. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax RU106 (UNII Band 7) – Ch. 179)

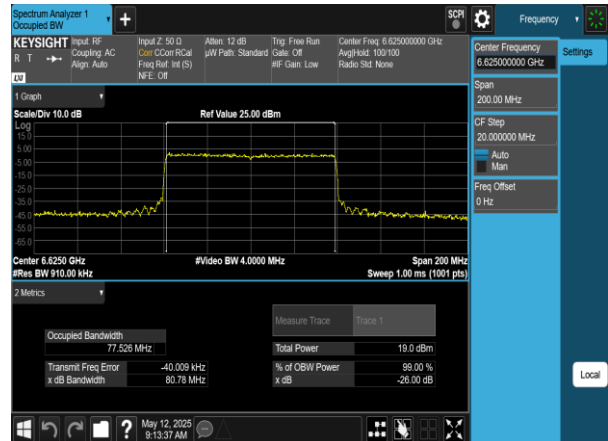


Plot 7-20. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax RU106 (UNII Band 7) – Ch. 175)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 25 of 198



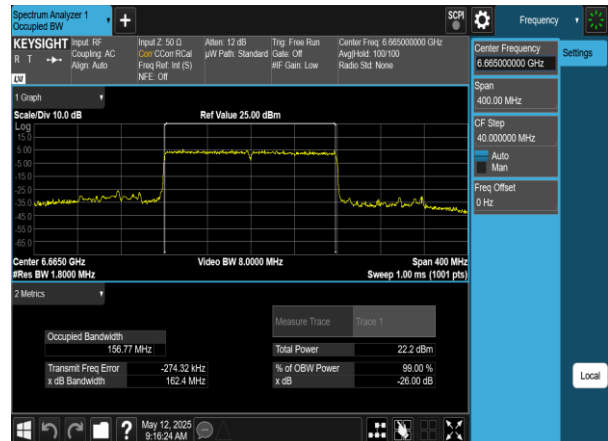
Plot 7-21. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 149)



Plot 7-23. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 135)

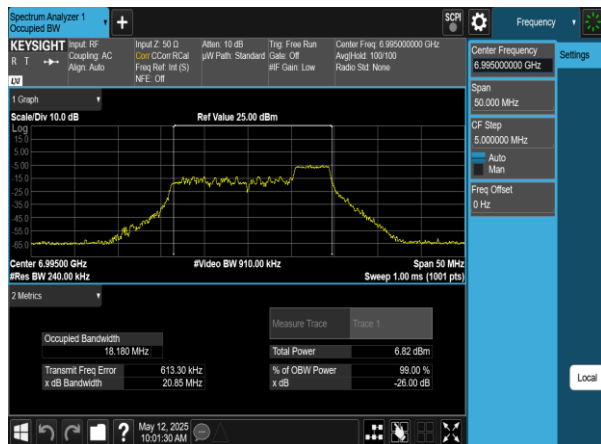


Plot 7-22. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 155)



Plot 7-24. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)

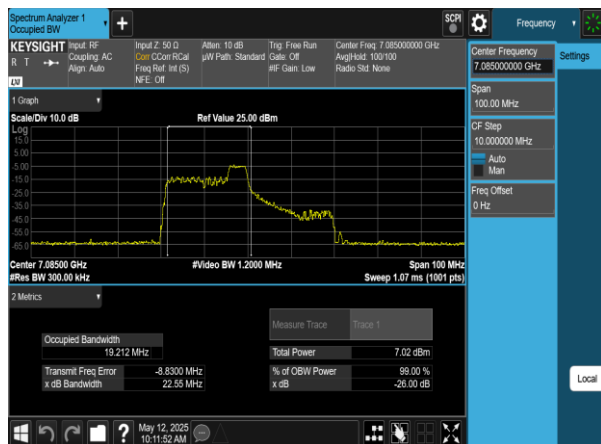
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 26 of 198



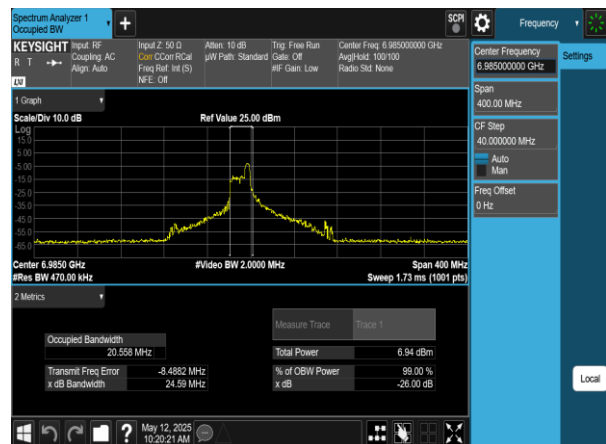
Plot 7-25. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax RU106 (UNII Band 8) – Ch. 209)



Plot 7-27. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax RU106 (UNII Band 8) – Ch. 215)

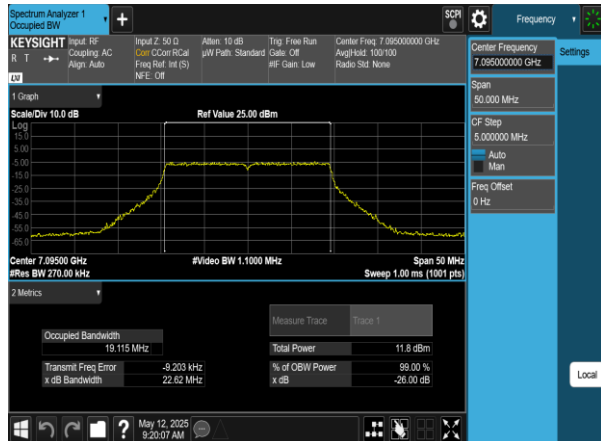


Plot 7-26. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax RU106 (UNII Band 8) – Ch. 227)

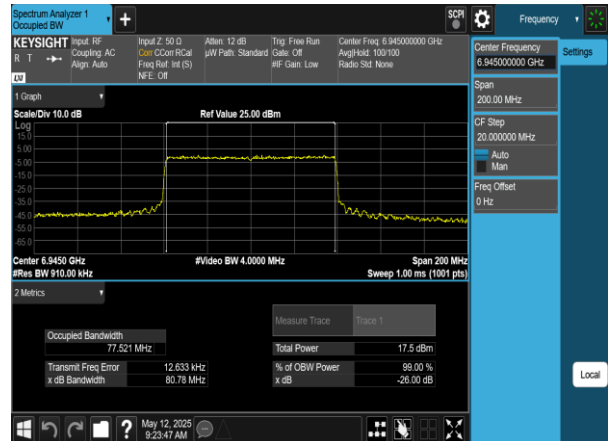


Plot 7-28. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax RU106 (UNII Band 8) – Ch. 207)

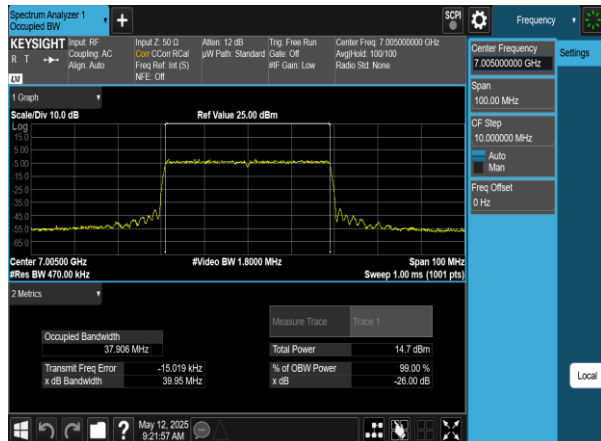
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 27 of 198



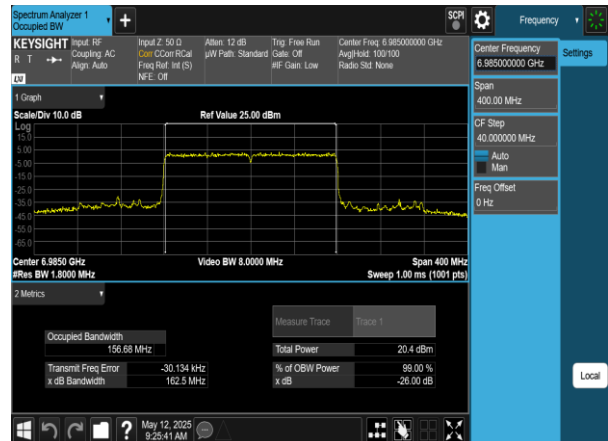
Plot 7-29. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 229)



Plot 7-31. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 199)



Plot 7-30. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 211)



Plot 7-32. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 28 of 198

7.2.2 Antenna 1 26dB & 99% Bandwidth Measurements – VLP

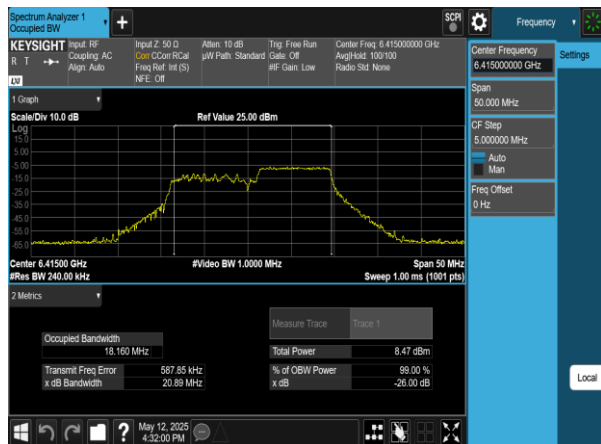
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5935	33	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.22	20.26	320	Pass
	5935	33	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.13	20.55	320	Pass
	6175	65	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.13	20.40	320	Pass
	6175	65	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.15	20.62	320	Pass
	6415	93	ax (20MHz)	106	53	12.5/14.7 (MCS11)	17.83	20.55	320	Pass
	6415	93	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.16	20.89	320	Pass
	5965	35	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.58	19.04	320	Pass
	5965	35	ax (40MHz)	106	54	12.5/14.7 (MCS11)	19.18	23.97	320	Pass
	5965	35	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.47	19.21	320	Pass
	6165	67	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.57	18.96	320	Pass
	6165	67	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.77	23.43	320	Pass
	6165	67	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.46	19.11	320	Pass
	6165	91	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.55	18.97	320	Pass
	6165	91	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.65	22.50	320	Pass
	6165	91	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.49	19.07	320	Pass
	5985	39	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.93	20.42	320	Pass
	5985	39	ax (80MHz)	106	56	12.5/14.7 (MCS11)	18.30	23.28	320	Pass
	5985	39	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.72	20.21	320	Pass
	6145	71	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.97	20.80	320	Pass
	6145	71	ax (80MHz)	106	54	12.5/14.7 (MCS11)	18.48	24.12	320	Pass
	6145	71	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.75	19.59	320	Pass
	6385	87	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.96	20.61	320	Pass
	6385	87	ax (80MHz)	106	56	12.5/14.7 (MCS11)	18.55	23.67	320	Pass
	6385	87	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.86	19.89	320	Pass
	6185	47(L)	ax (160MHz)	106	53	12.5/14.7 (MCS11)	17.87	20.51	320	Pass
	6185	47(L)	ax (160MHz)	106	56	12.5/14.7 (MCS11)	19.17	25.48	320	Pass
	6185	47(H)	ax (160MHz)	106	60	12.5/14.7 (MCS11)	18.05	19.70	320	Pass
	6345	79(L)	ax (160MHz)	106	53	12.5/14.7 (MCS11)	17.48	19.81	320	Pass
	6345	79(L)	ax (160MHz)	106	56	12.5/14.7 (MCS11)	19.54	26.71	320	Pass
	6345	79(H)	ax (160MHz)	106	60	12.5/14.7 (MCS11)	17.98	20.34	320	Pass
Band 6	6345	97	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.22	20.47	320	Pass
	6345	97	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.22	20.88	320	Pass
	6475	105	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.18	20.49	320	Pass
	6475	105	ax (20MHz)	106	54	12.5/14.7 (MCS11)	18.18	20.86	320	Pass
	6515	113	ax (20MHz)	106	53	12.5/14.7 (MCS11)	18.20	20.52	320	Pass
	6515	113	ax (20MHz)	106	54	12.5/14.7 (MCS11)	17.89	20.39	320	Pass
	6445	99	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.59	19.05	320	Pass
	6445	99	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.72	23.17	320	Pass
	6445	99	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.15	18.83	320	Pass
	6485	107	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.62	19.01	320	Pass
	6485	107	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.78	22.90	320	Pass
	6485	107	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.43	19.32	320	Pass
	6525	115	ax (40MHz)	106	53	12.5/14.7 (MCS11)	17.46	18.93	320	Pass
	6525	115	ax (40MHz)	106	54	12.5/14.7 (MCS11)	18.65	22.52	320	Pass
	6525	115	ax (40MHz)	106	56	12.5/14.7 (MCS11)	17.48	19.24	320	Pass
	6465	103	ax (80MHz)	106	53	12.5/14.7 (MCS11)	17.86	20.08	320	Pass
	6465	103	ax (80MHz)	106	56	12.5/14.7 (MCS11)	18.33	24.49	320	Pass
	6465	103	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.79	20.42	320	Pass
	6505	111(L)	ax (160MHz)	106	53	12.5/14.7 (MCS11)	18.08	19.61	320	Pass
	6505	111(L)	ax (160MHz)	106	56	12.5/14.7 (MCS11)	19.07	26.36	320	Pass
	6505	111(H)	ax (160MHz)	106	60	12.5/14.7 (MCS11)	17.97	20.07	320	Pass
	6535	117	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.22	20.44	320	Pass
	6535	117	ax (20MHz)	52	39	12.5/14.7 (MCS11)	17.02	18.28	320	Pass
	6535	117	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.25	20.08	320	Pass
	6695	149	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.25	20.18	320	Pass
	6695	149	ax (20MHz)	52	39	12.5/14.7 (MCS11)	17.01	18.15	320	Pass
	6695	149	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.21	20.55	320	Pass
	6875	185	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.25	20.33	320	Pass
	6875	185	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.98	18.17	320	Pass
	6875	185	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.08	20.27	320	Pass
	6565	123	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.65	18.93	320	Pass
	6565	123	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.17	23.05	320	Pass
	6565	123	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.56	18.97	320	Pass
	6725	155	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.47	18.93	320	Pass
	6725	155	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.20	22.36	320	Pass
	6725	155	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.40	18.92	320	Pass
	6845	179	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.70	18.96	320	Pass
	6845	179	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.47	22.28	320	Pass
	6845	179	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.31	18.88	320	Pass
Band 7	6545	119	ax (80MHz)	106	53	12.5/14.7 (MCS11)	15.36	16.74	320	Pass
	6545	119	ax (80MHz)	106	56	12.5/14.7 (MCS11)	18.07	25.04	320	Pass
	6545	119	ax (80MHz)	106	60	12.5/14.7 (MCS11)	17.11	18.48	320	Pass
	6705	151	ax (80MHz)	52	37	12.5/14.7 (MCS11)	17.92	19.80	320	Pass
	6705	151	ax (80MHz)	52	44	12.5/14.7 (MCS11)	18.97	23.00	320	Pass
	6705	151	ax (80MHz)	52	52	12.5/14.7 (MCS11)	17.65	19.35	320	Pass
	6865	183	ax (80MHz)	52	37	12.5/14.7 (MCS11)	17.84	19.31	320	Pass
	6865	183	ax (80MHz)	52	44	12.5/14.7 (MCS11)	18.78	22.13	320	Pass
	6865	183	ax (80MHz)	52	52	12.5/14.7 (MCS11)	17.73	19.02	320	Pass
	6665	143(L)	ax (160MHz)	52	37	12.5/14.7 (MCS11)	17.85	19.57	320	Pass
	6665	143(L)	ax (160MHz)	52	44	12.5/14.7 (MCS11)	20.48	23.65	320	Pass
	6665	143(H)	ax (160MHz)	52	52	12.5/14.7 (MCS11)	17.98	19.46	320	Pass
	6825	175(L)	ax (160MHz)	52	37	12.5/14.7 (MCS11)	18.07	19.52	320	Pass
	6825	175(L)	ax (160MHz)	52	44	12.5/14.7 (MCS11)	20.00	23.59	320	Pass
	6825	175(H)	ax (160MHz)	52	52	12.5/14.7 (MCS11)	18.07	19.62	320	Pass
	6895	189	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.18	20.23	320	Pass
	6895	189	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.91	18.24	320	Pass
	6895	189	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.24	20.75	320	Pass
	6995	209	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.26	20.15	320	Pass
	6995	209	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.98	18.32	320	Pass
	6995	209	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.20	20.35	320	Pass
	7095	229	ax (20MHz)	52	37	12.5/14.7 (MCS11)	18.18	20.12	320	Pass
	7095	229	ax (20MHz)	52	39	12.5/14.7 (MCS11)	16.92	18.19	320	Pass
	7095	229	ax (20MHz)	52	40	12.5/14.7 (MCS11)	18.22	20.39	320	Pass
	6885	187	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.61	19.01	320	Pass
	6885	187	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.39	23.21	320	Pass
	6885	187	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.51	18.96	320	Pass
	7005	211	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.57	18.87	320	Pass
	7005	211	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.29	22.17	320	Pass
	7005	211	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.50	19.01	320	Pass
	7085	227	ax (40MHz)	52	37	12.5/14.7 (MCS11)	17.68	18.82	320	Pass
	7085	227	ax (40MHz)	52	40	12.5/14.7 (MCS11)	19.23	22.68	320	Pass
	7085	227	ax (40MHz)	52	44	12.5/14.7 (MCS11)	17.54	18.96	320	Pass
	6945	199	ax (80MHz)	52	37	12.5/14.7 (MCS11)	18.00	19.84	320	Pass
	6945	199	ax (80MHz)	52	44	12.5/14.7 (MCS11)	18.78	21.75	320	Pass
	6945	199	ax (80MHz)	52	52	12.5/14.7 (MCS11)	17.79	19.31	320	Pass
	7025	215	ax (80MHz)	52	37	12.5/14.7 (MCS11)	17.92	19.63	320	Pass
	7025	215	ax (80MHz)	52	44	12.5/14.7 (MCS11)	19.06	23.46	320	Pass
	7025	215	ax (80MHz)	52	52	12.5/14.7 (MCS11)	17.81	19.28	320	Pass
Band 8	6985	207(L)	ax (160MHz)	52	37	12.5/14.7 (MCS11)	18.06	19.55	320	Pass
	6985	207(L)	ax (160MHz)	52	44	12.5/14.7 (MCS11)	20.29	23.97	320	Pass
	6985	207(H)	ax (160MHz)	52	52	12.5/14.7 (MCS11)	18.03	19.60	320	Pass

Table 7-4

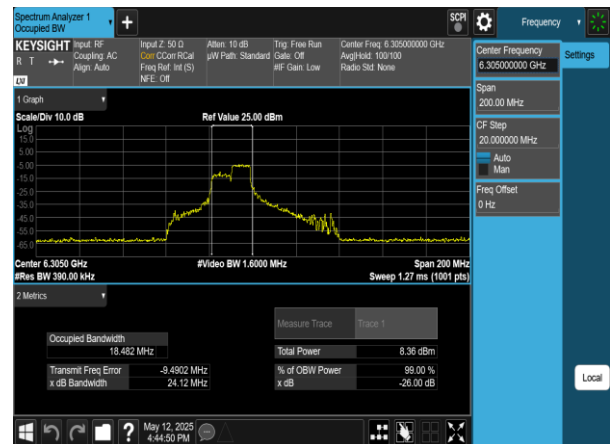
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5935	33	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.13	22.56	320	Pass
	6175	65	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.08	22.10	320	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.10	22.74	320	Pass
	5965	35	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	39.92	320	Pass
	6165	67	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.90	39.87	320	Pass
	6165	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	39.87	320	Pass
	5985	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.55	80.60	320	Pass
	6145	71	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.50	80.70	320	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.60	80.73	320	Pass
	6185	47	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.78	162.59	320	Pass
Band 6	6345	79	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.74	162.56	320	Pass
	6345	97	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.12	22.48	320	Pass
	6475	105	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.11	22.58	320	Pass
	6515	113	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.13	22.51	320	Pass
	6445	99	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.93	39.98	320	Pass
	6485	107	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	39.95	320	Pass
	6525	115	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.89	39.89	320	Pass
	6465	103	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.55	80.72	320	Pass
Band 7	6505	111	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.86	162.98	320	Pass
	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.13	22.55	320	Pass
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.13	22.49	320	Pass
	6875	185	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.13	22.34	320	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.92	39.88	320	Pass
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	39.86	320	Pass
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.93	39.84	320	Pass
	6545	119	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.75	80.74	320	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.48	80.68	320	Pass
	6865	183	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.49	80.71	320	Pass
Band 8	6665	143	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.66	162.39	320	Pass
	6825	175	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.69	162.59	320	Pass
	6895	189	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.10	22.61	320	Pass
	6995	209	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.12	22.43	320	Pass
	7115	229	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.15	22.77	320	Pass
	6885	187	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.95	39.90	320	Pass
	7005	211	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	39.89	320	Pass
	7085	227	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	39.90	320	Pass
	6945	199	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.44	80.71	320	Pass
	7025	215	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.50	80.74	320	Pass
	6985	207	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.93	162.29	320	Pass

Table 7-5. Conducted Bandwidth Measurements Antenna 1 (Fully – Loaded RU)

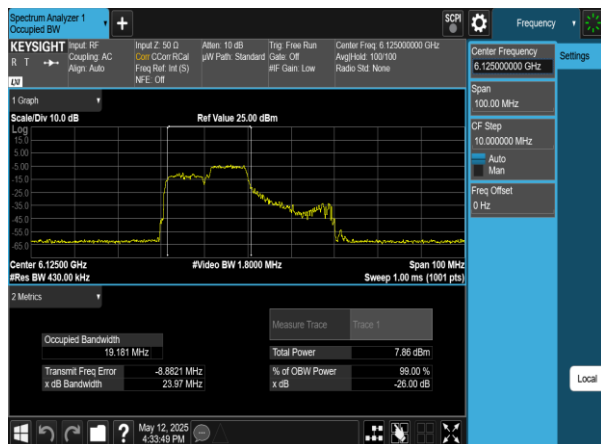
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 30 of 198



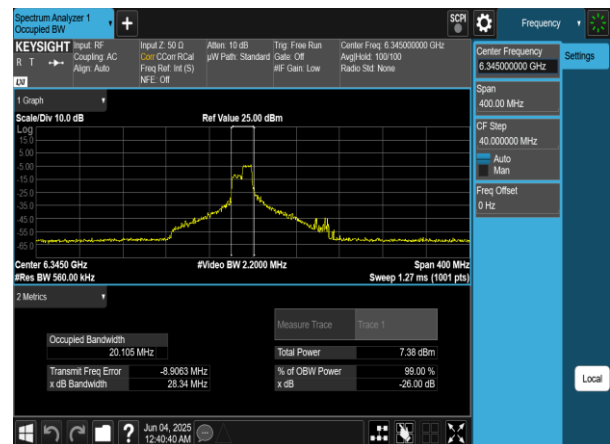
Plot 7-33. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11ax RU106 (UNII Band 5) – Ch. 93)



Plot 7-35. 26dB & 99% Bandwidth Plot Antenna 1 (80MHz 802.11ax RU106 (UNII Band 5) – Ch. 71)

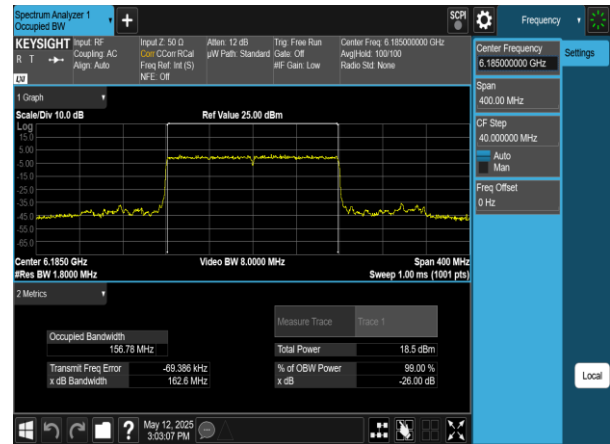
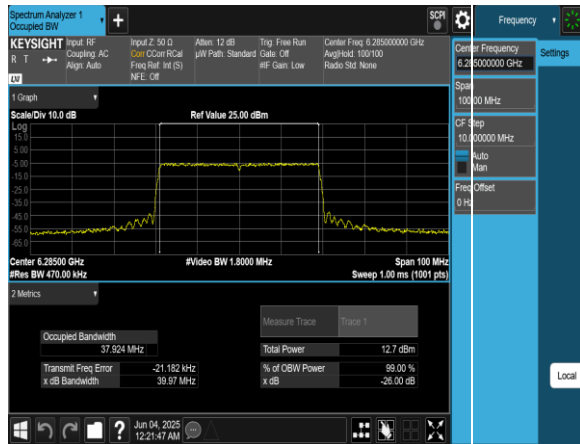
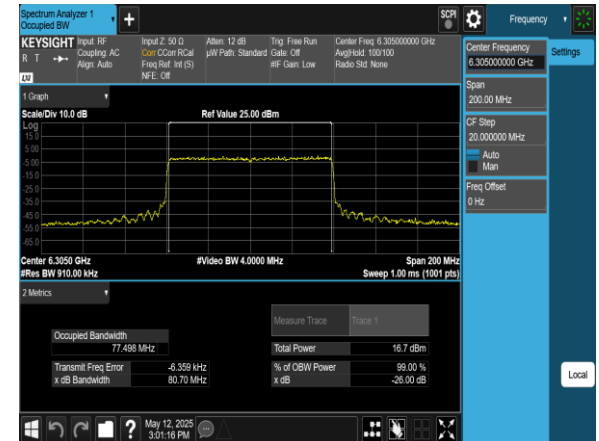
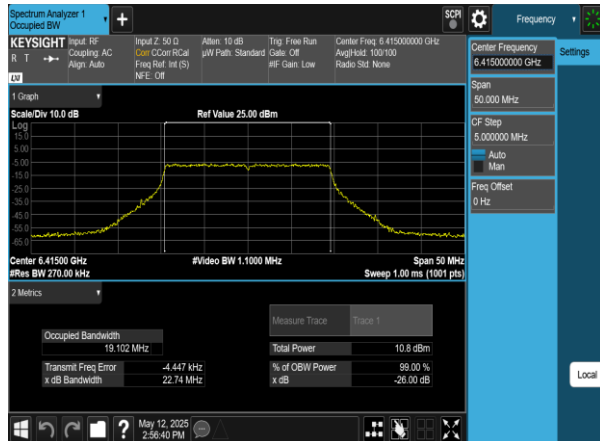


Plot 7-34. 26dB & 99% Bandwidth Plot Antenna 1 (40MHz 802.11ax RU106 (UNII Band 5) – Ch. 35)

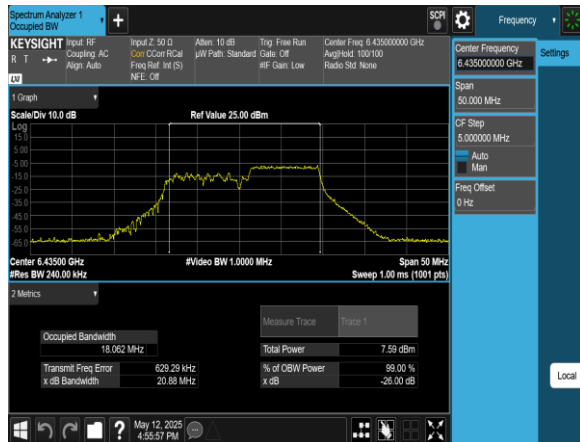


Plot 7-36. 26dB & 99% Bandwidth Plot Antenna 1 (160MHz 802.11ax RU106 (UNII Band 5) – Ch. 79)

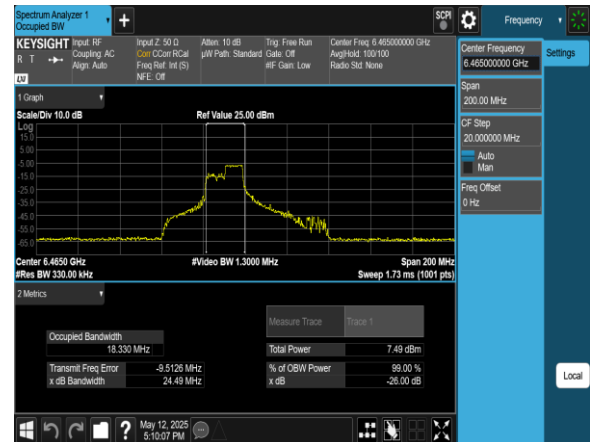
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 31 of 198



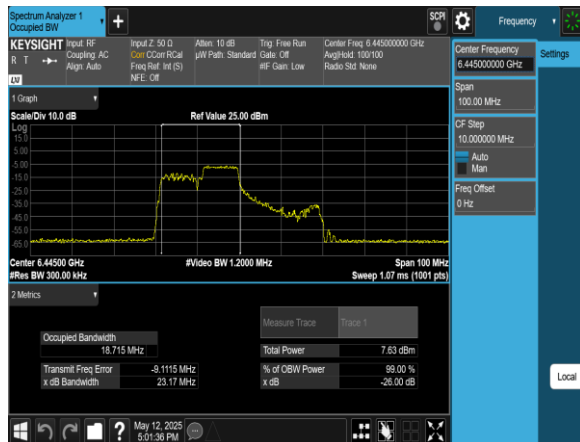
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 32 of 198



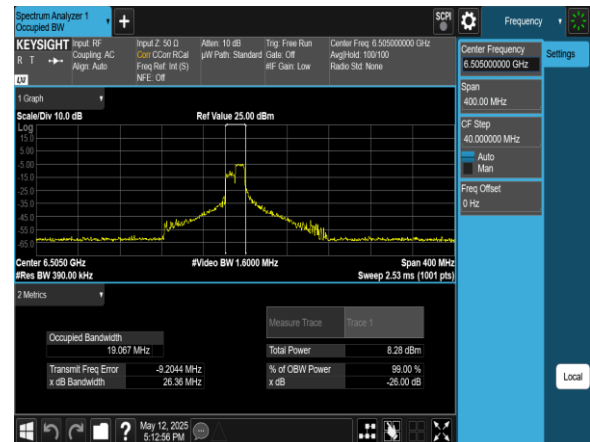
Plot 7-41. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11ax RU106 (UNII Band 6) – Ch. 97)



Plot 7-43. 26dB & 99% Bandwidth Plot Antenna 1 (80MHz 802.11ax RU106 (UNII Band 6) – Ch. 103)

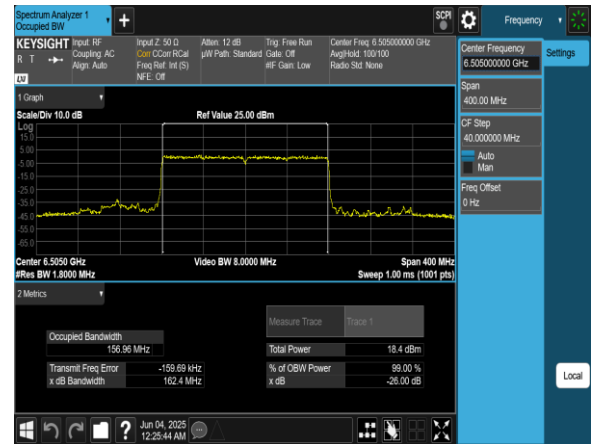
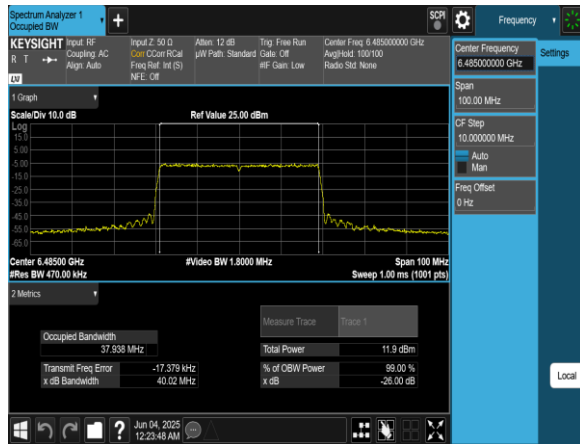
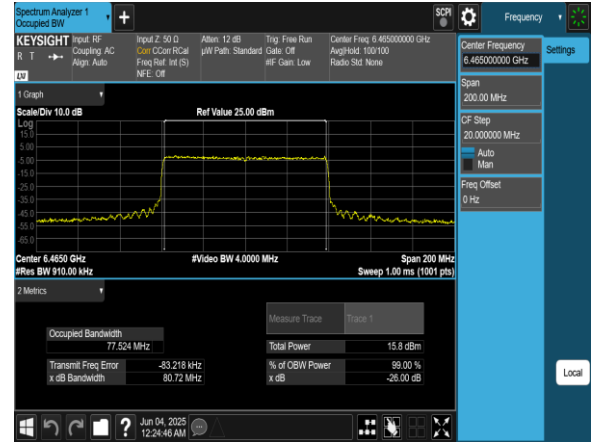
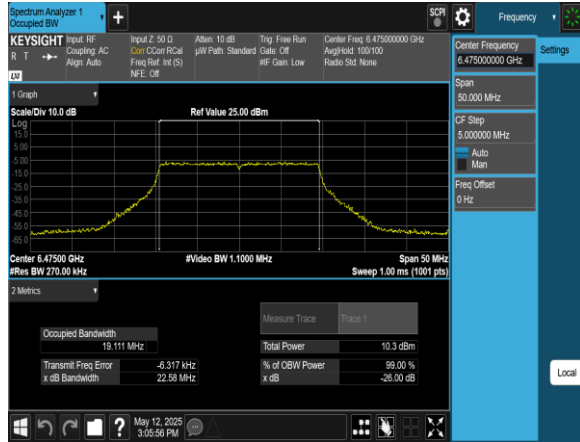


Plot 7-42. 26dB & 99% Bandwidth Plot Antenna 1 (40MHz 802.11ax RU106 (UNII Band 6) – Ch. 99)

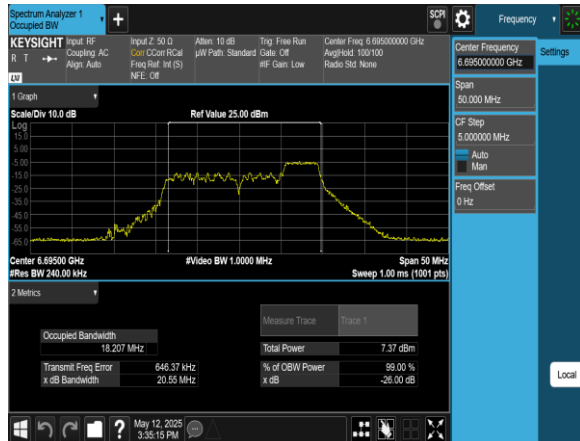


Plot 7-44. 26dB & 99% Bandwidth Plot Antenna 1 (160MHz 802.11ax RU106 (UNII Band 6) – Ch. 111)

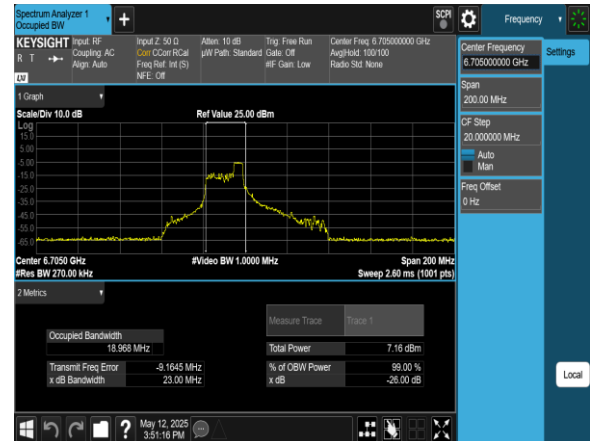
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



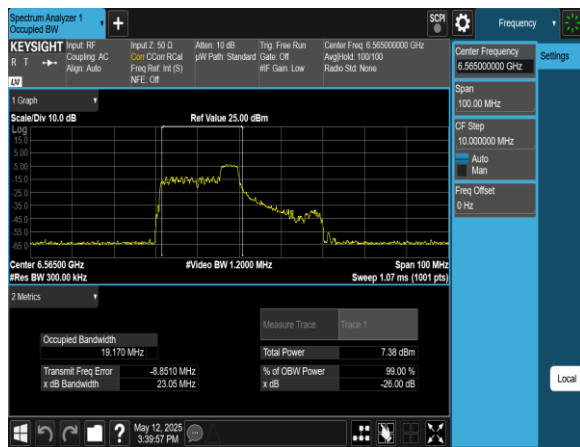
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 34 of 198



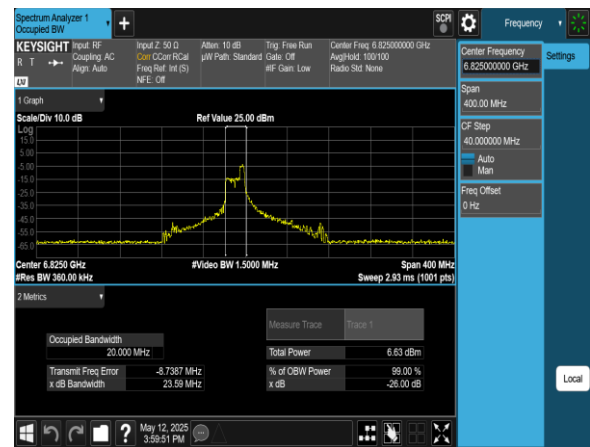
Plot 7-49. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11ax RU106 (UNII Band 7) – Ch. 149)



Plot 7-51. 26dB & 99% Bandwidth Plot Antenna 1 (80MHz 802.11ax RU106 (UNII Band 7) – Ch. 151)

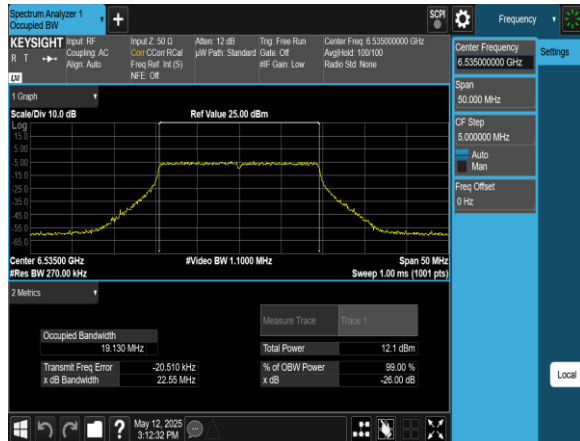


Plot 7-50. 26dB & 99% Bandwidth Plot Antenna 1 (40MHz 802.11ax RU106 (UNII Band 7) – Ch. 123)

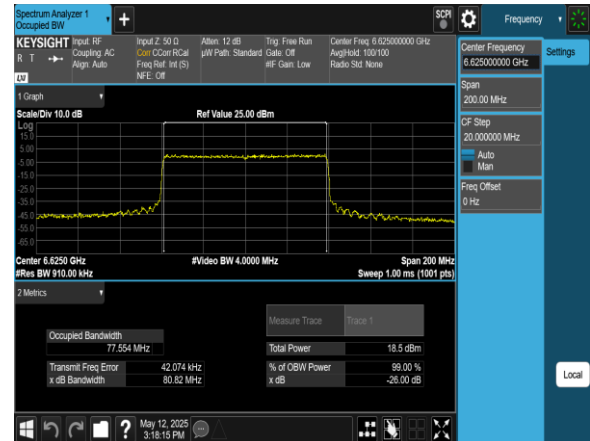


Plot 7-52. 26dB & 99% Bandwidth Plot Antenna 1 (160MHz 802.11ax RU106 (UNII Band 7) – Ch. 175)

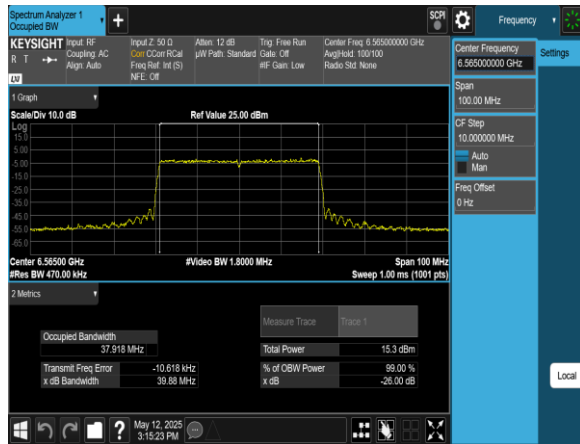
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 35 of 198



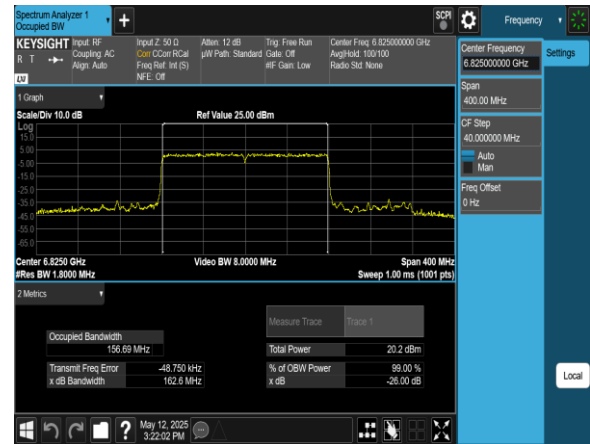
Plot 7-53. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 117)



Plot 7-55. 26dB & 99% Bandwidth Plot Antenna 1 (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 135)

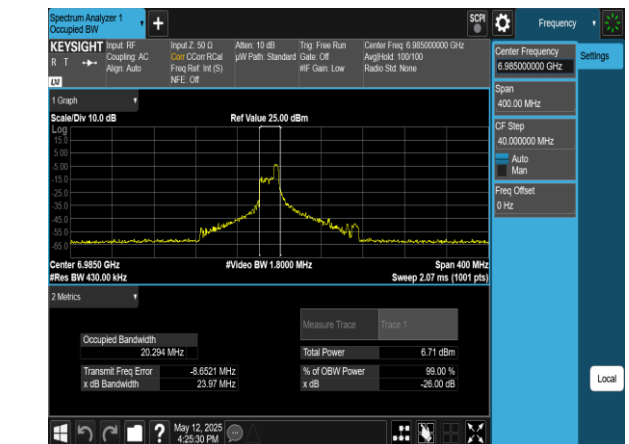
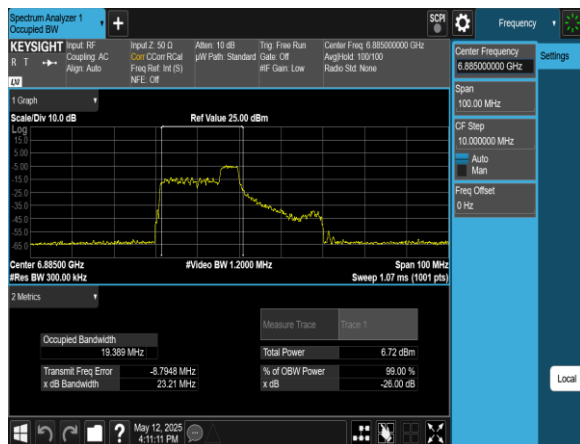
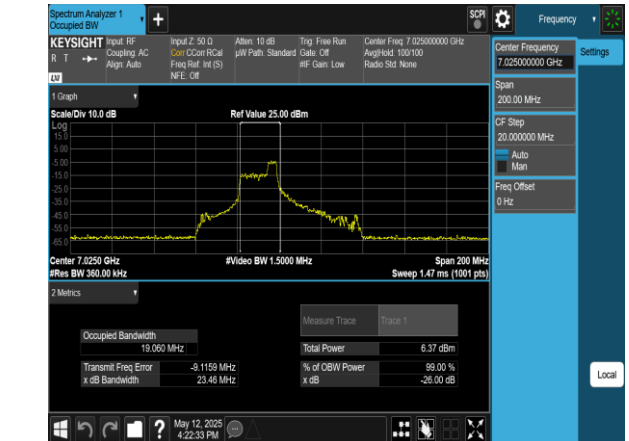
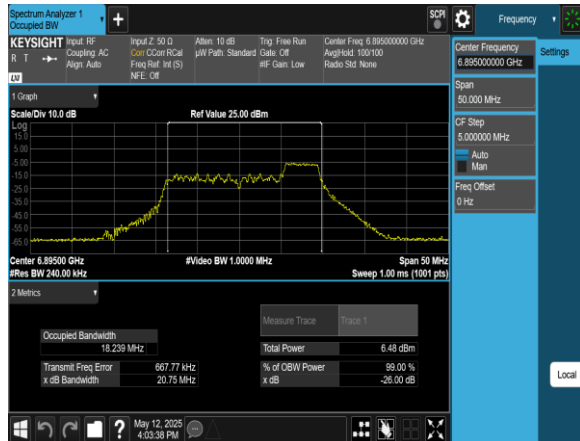


Plot 7-54. 26dB & 99% Bandwidth Plot Antenna 1 (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 123)

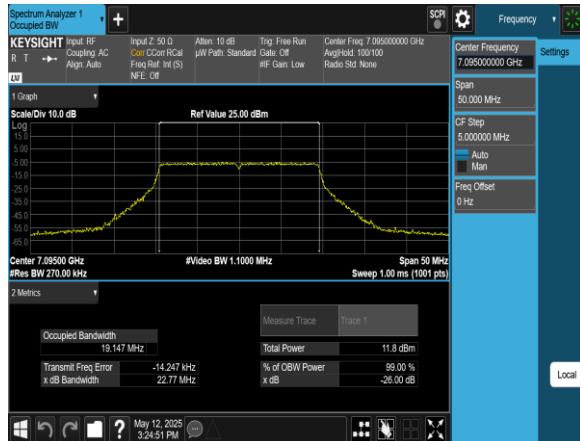


Plot 7-56. 26dB & 99% Bandwidth Plot Antenna 1 (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 175)

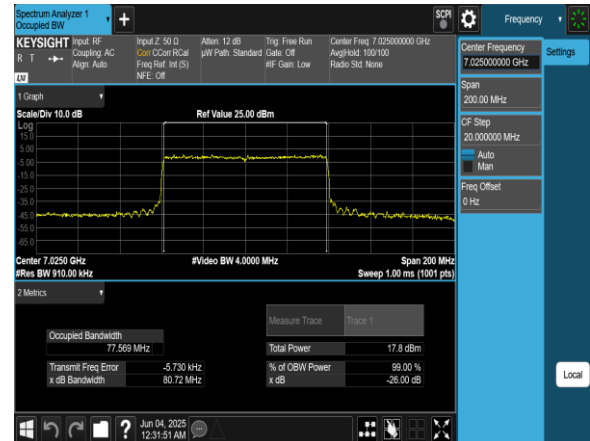
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 36 of 198



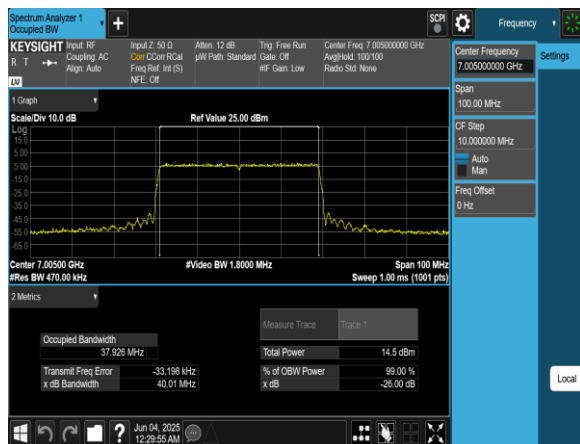
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 37 of 198



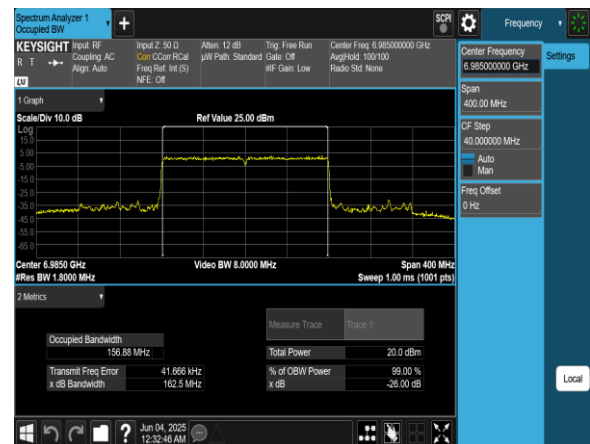
Plot 7-61. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 229)



Plot 7-63. 26dB & 99% Bandwidth Plot Antenna 1 (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 215)



Plot 7-62. 26dB & 99% Bandwidth Plot Antenna 1 (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 211)



Plot 7-64. 26dB & 99% Bandwidth Plot Antenna 1 (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)

FCC ID: BCGA3300 IC: 579C-A3300	element	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 38 of 198

7.3 Conducted Output Power and Max EIRP Measurement

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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

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

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.3.2 Method PM-G

KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – 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 7-2. Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 39 of 198

7.3.1 Antenna 0 Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6535	117	52	37	MCS11	-1.14	-1.02	-2.16	14.00	-16.16
			52	39	MCS11	-1.33	-1.02	-2.35	14.00	-16.35
			52	40	MCS11	-1.35	-1.02	-2.37	14.00	-16.37
	6695	149	52	37	MCS11	-1.37	-1.02	-2.39	14.00	-16.39
			52	39	MCS11	-1.49	-1.02	-2.51	14.00	-16.51
			52	40	MCS11	-1.48	-1.02	-2.50	14.00	-16.50
	6875	185	52	37	MCS11	-2.09	-1.02	-3.11	14.00	-17.11
			52	39	MCS11	-2.13	-1.02	-3.15	14.00	-17.15
			52	40	MCS11	-2.10	-1.02	-3.12	14.00	-17.12
	6895	189	52	37	MCS11	-2.15	-0.26	-2.41	14.00	-16.41
			52	39	MCS11	-2.22	-0.26	-2.48	14.00	-16.48
			52	40	MCS11	-2.19	-0.26	-2.45	14.00	-16.45
	6995	209	52	37	MCS11	-2.48	-0.26	-2.74	14.00	-16.74
			52	39	MCS11	-2.38	-0.26	-2.64	14.00	-16.64
			52	40	MCS11	-2.40	-0.26	-2.66	14.00	-16.66
	7095	229	52	37	MCS11	-2.26	-0.26	-2.52	14.00	-16.52
			52	39	MCS11	-2.26	-0.26	-2.52	14.00	-16.52
			52	40	MCS11	-2.14	-0.26	-2.40	14.00	-16.40

Table 7-6. Antenna 0 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6115	33	106	53	MCS11	-1.40	1.87	0.47	14.00	-13.53
			106	54	MCS11	-1.03	1.87	0.84	14.00	-13.16
	6275	65	106	53	MCS11	-0.33	1.87	1.54	14.00	-12.46
			106	54	MCS11	-0.39	1.87	1.48	14.00	-12.52
	6415	93	106	53	MCS11	-0.18	1.87	1.69	14.00	-12.31
			106	54	MCS11	-0.19	1.87	1.68	14.00	-12.32
	6435	97	106	53	MCS11	-0.89	1.73	0.84	14.00	-13.16
			106	54	MCS11	-0.91	1.73	0.82	14.00	-13.18
	6475	105	106	53	MCS11	-0.90	1.73	0.83	14.00	-13.17
			106	54	MCS11	-0.91	1.73	0.82	14.00	-13.18
	6515	113	106	53	MCS11	-0.92	1.73	0.81	14.00	-13.19
			106	54	MCS11	-0.94	1.73	0.79	14.00	-13.21
	6535	117	106	53	MCS11	1.67	-1.02	0.65	14.00	-13.35
			106	54	MCS11	1.53	-1.02	0.51	14.00	-13.49
	6695	149	106	53	MCS11	1.60	-1.02	0.58	14.00	-13.42
			106	54	MCS11	1.65	-1.02	0.63	14.00	-13.38
	6875	185	106	53	MCS11	0.64	-1.02	-0.38	14.00	-14.38
			106	54	MCS11	0.63	-1.02	-0.39	14.00	-14.39
	6895	189	106	53	MCS11	0.67	-0.26	0.41	14.00	-13.60
			106	54	MCS11	0.63	-0.26	0.37	14.00	-13.63
	6995	209	106	53	MCS11	0.88	-0.26	0.62	14.00	-13.38
			106	54	MCS11	0.96	-0.26	0.70	14.00	-13.30
	7095	229	106	53	MCS11	0.57	-0.26	0.31	14.00	-13.69
			106	54	MCS11	0.66	-0.26	0.40	14.00	-13.60

Table 7-7. Antenna 0 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Partially Loaded RU's)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 40 of 198

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6115	33	242	61	MCS11	1.70	1.87	3.57	14.00	-10.43
	6275	65	242	61	MCS11	2.69	1.87	4.56	14.00	-9.44
	6415	93	242	61	MCS11	2.78	1.87	4.65	14.00	-9.35
	6435	97	242	61	MCS11	2.14	1.73	3.87	14.00	-10.13
	6475	105	242	61	MCS11	2.09	1.73	3.82	14.00	-10.18
	6515	113	242	61	MCS11	2.06	1.73	3.79	14.00	-10.21
	6535	117	242	61	MCS11	4.53	-1.02	3.51	14.00	-10.49
	6695	149	242	61	MCS11	4.88	-1.02	3.86	14.00	-10.14
	6875	185	242	61	MCS11	3.98	-1.02	2.96	14.00	-11.04
	6895	189	242	61	MCS11	3.93	-0.26	3.67	14.00	-10.33
	6995	209	242	61	MCS11	3.73	-0.26	3.47	14.00	-10.53
	7095	229	242	61	MCS11	3.91	-0.26	3.65	14.00	-10.35

Table 7-8. Antenna 0 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6125	35	484	65	MCS11	4.09	1.87	5.96	14.00	-8.04
	6285	67	484	65	MCS11	5.13	1.87	7.00	14.00	-7.00
	6405	91	484	65	MCS11	5.14	1.87	7.01	14.00	-6.99
	6445	99	484	65	MCS11	4.02	1.73	5.75	14.00	-8.25
	6485	107	484	65	MCS11	4.48	1.73	6.21	14.00	-7.79
	6525	115	484	65	MCS11	4.28	-1.02	3.26	14.00	-10.74
	6565	123	484	65	MCS11	7.35	-1.02	6.33	14.00	-7.68
	6725	155	484	65	MCS11	7.13	-1.02	6.11	14.00	-7.89
	6845	179	484	65	MCS11	6.88	-1.02	5.86	14.00	-8.14
	6885	187	484	65	MCS11	6.34	-0.26	6.08	14.00	-7.92
	7005	211	484	65	MCS11	6.17	-0.26	5.91	14.00	-8.09
	7085	227	484	65	MCS11	6.27	-0.26	6.01	14.00	-7.99

Table 7-9. Antenna 0 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	996	67	MCS11	7.13	1.87	9.00	14.00	-5.00
	6305	71	996	67	MCS11	8.23	1.87	10.10	14.00	-3.90
	6385	87	996	67	MCS11	8.36	1.87	10.23	14.00	-3.77
	6465	103	996	67	MCS11	7.66	1.73	9.39	14.00	-4.62
	6625	135	996	67	MCS11	10.25	-1.02	9.23	14.00	-4.77
	6705	151	996	67	MCS11	10.03	-1.02	9.01	14.00	-4.99
	6865	183	996	67	MCS11	9.09	-1.02	8.07	14.00	-5.93
	6945	199	996	67	MCS11	8.87	-0.26	8.61	14.00	-5.39
	7025	215	996	67	MCS11	9.00	-0.26	8.74	14.00	-5.26

Table 7-10. Antenna 0 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47	996x2	68	MCS11	9.56	1.87	11.43	14.00	-2.57
	6345	79	996x2	68	MCS11	10.56	1.87	12.43	14.00	-1.57
	6505	111	996x2	68	MCS11	10.38	1.73	12.11	14.00	-1.89
	6665	143	996x2	68	MCS11	12.85	-1.02	11.83	14.00	-2.17
	6825	175	996x2	68	MCS11	11.47	-1.02	10.45	14.00	-3.55
	6985	207	996x2	68	MCS11	11.18	-0.26	10.92	14.00	-3.08

Table 7-11. Antenna 0 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 41 of 198

7.3.2 Antenna 1 Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6535	117	52	37	MCS11	-1.18	-0.88	-2.06	14.00	-16.06
			52	39	MCS11	-1.34	-0.88	-2.22	14.00	-16.22
			52	40	MCS11	-1.34	-0.88	-2.22	14.00	-16.22
	6695	149	52	37	MCS11	-1.17	-0.88	-2.05	14.00	-16.05
			52	39	MCS11	-1.06	-0.88	-1.94	14.00	-15.94
			52	40	MCS11	-1.00	-0.88	-1.88	14.00	-15.88
	6875	185	52	37	MCS11	-2.28	-0.88	-3.16	14.00	-17.16
			52	39	MCS11	-2.29	-0.88	-3.17	14.00	-17.17
			52	40	MCS11	-2.25	-0.88	-3.13	14.00	-17.13
	6895	189	52	37	MCS11	-2.31	0.18	-2.13	14.00	-16.13
			52	39	MCS11	-2.33	0.18	-2.15	14.00	-16.15
			52	40	MCS11	-2.31	0.18	-2.13	14.00	-16.13
	6995	209	52	37	MCS11	-2.45	0.18	-2.27	14.00	-16.27
			52	39	MCS11	-2.46	0.18	-2.28	14.00	-16.28
			52	40	MCS11	-2.41	0.18	-2.23	14.00	-16.23
	7095	229	52	37	MCS11	-2.28	0.18	-2.10	14.00	-16.10
			52	39	MCS11	-2.44	0.18	-2.26	14.00	-16.26
			52	40	MCS11	-2.40	0.18	-2.22	14.00	-16.22

Table 7-12. Antenna 1 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Lowest Partially Loaded RU's)

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6115	33	106	53	MCS11	-1.05	2.14	1.09	14.00	-12.91
			106	54	MCS11	-1.37	2.14	0.77	14.00	-13.23
	6275	65	106	53	MCS11	-0.04	2.14	2.10	14.00	-11.90
			106	54	MCS11	-0.06	2.14	2.08	14.00	-11.92
	6415	93	106	53	MCS11	-0.18	2.14	1.96	14.00	-12.04
			106	54	MCS11	-0.22	2.14	1.92	14.00	-12.08
	6435	97	106	53	MCS11	-0.96	0.74	-0.22	14.00	-14.22
			106	54	MCS11	-0.90	0.74	-0.16	14.00	-14.16
	6475	105	106	53	MCS11	-0.58	0.74	0.16	14.00	-13.84
			106	54	MCS11	-0.63	0.74	0.11	14.00	-13.89
	6515	113	106	53	MCS11	-0.94	0.74	-0.20	14.00	-14.20
			106	54	MCS11	-0.92	0.74	-0.18	14.00	-14.18
	6535	117	106	53	MCS11	1.97	-0.88	1.09	14.00	-12.91
			106	54	MCS11	1.88	-0.88	1.00	14.00	-13.00
	6695	149	106	53	MCS11	1.86	-0.88	0.98	14.00	-13.02
			106	54	MCS11	1.96	-0.88	1.08	14.00	-12.92
	6875	185	106	53	MCS11	0.54	-0.88	-0.34	14.00	-14.34
			106	54	MCS11	0.56	-0.88	-0.32	14.00	-14.32
	6895	189	106	53	MCS11	0.52	0.18	0.70	14.00	-13.30
			106	54	MCS11	0.52	0.18	0.70	14.00	-13.30
	6995	209	106	53	MCS11	0.99	0.18	1.17	14.00	-12.83
			106	54	MCS11	0.69	0.18	0.87	14.00	-13.14
	7095	229	106	53	MCS11	0.54	0.18	0.72	14.00	-13.28
			106	54	MCS11	0.46	0.18	0.64	14.00	-13.36

Table 7-13. Antenna 1 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Highest Partially Loaded RU's)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6115	33	242	61	MCS11	1.75	2.14	3.89	14.00	-10.11
	6275	65	242	61	MCS11	2.97	2.14	5.11	14.00	-8.89
	6415	93	242	61	MCS11	2.81	2.14	4.95	14.00	-9.05
	6435	97	242	61	MCS11	2.15	0.74	2.89	14.00	-11.11
	6475	105	242	61	MCS11	2.34	0.74	3.08	14.00	-10.92
	6515	113	242	61	MCS11	2.46	0.74	3.20	14.00	-10.81
	6535	117	242	61	MCS11	4.67	-0.88	3.79	14.00	-10.21
	6695	149	242	61	MCS11	4.69	-0.88	3.81	14.00	-10.19
	6875	185	242	61	MCS11	3.63	-0.88	2.75	14.00	-11.26
	6895	189	242	61	MCS11	3.65	0.18	3.83	14.00	-10.17
	6995	209	242	61	MCS11	3.80	0.18	3.98	14.00	-10.02
	7095	229	242	61	MCS11	3.52	0.18	3.70	14.00	-10.30

Table 7-14. Antenna 1 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6125	35	484	65	MCS11	4.12	2.14	6.26	14.00	-7.74
	6285	67	484	65	MCS11	5.38	2.14	7.52	14.00	-6.48
	6405	91	484	65	MCS11	5.24	2.14	7.38	14.00	-6.62
	6445	99	484	65	MCS11	4.49	0.74	5.23	14.00	-8.77
	6485	107	484	65	MCS11	4.76	0.74	5.50	14.00	-8.51
	6525	115	484	65	MCS11	4.73	-0.88	3.85	14.00	-10.15
	6565	123	484	65	MCS11	7.06	-0.88	6.18	14.00	-7.82
	6725	155	484	65	MCS11	7.06	-0.88	6.18	14.00	-7.82
	6845	179	484	65	MCS11	7.50	-0.88	6.62	14.00	-7.38
	6885	187	484	65	MCS11	6.44	0.18	6.62	14.00	-7.38
	7005	211	484	65	MCS11	6.44	0.18	6.62	14.00	-7.38
	7085	227	484	65	MCS11	6.38	0.18	6.56	14.00	-7.44

Table 7-15. Antenna 1 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	996	67	MCS11	7.26	2.14	9.40	14.00	-4.60
	6305	71	996	67	MCS11	8.17	2.14	10.31	14.00	-3.69
	6385	87	996	67	MCS11	8.38	2.14	10.52	14.00	-3.48
	6465	103	996	67	MCS11	7.91	0.74	8.65	14.00	-5.35
	6625	135	996	67	MCS11	9.82	-0.88	8.94	14.00	-5.06
	6705	151	996	67	MCS11	10.01	-0.88	9.13	14.00	-4.87
	6865	183	996	67	MCS11	9.20	-0.88	8.32	14.00	-5.68
	6945	199	996	67	MCS11	9.00	0.18	9.18	14.00	-4.82
	7025	215	996	67	MCS11	9.14	0.18	9.32	14.00	-4.68

Table 7-16. Antenna 1 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47	996x2	68	MCS11	9.82	2.14	11.96	14.00	-2.04
	6345	79	996x2	68	MCS11	10.83	2.14	12.97	14.00	-1.03
	6505	111	996x2	68	MCS11	10.37	0.74	11.11	14.00	-2.89
	6665	143	996x2	68	MCS11	12.94	-0.88	12.06	14.00	-1.94
	6825	175	996x2	68	MCS11	11.48	-0.88	10.60	14.00	-3.40
	6985	207	996x2	68	MCS11	11.47	0.18	11.65	14.00	-2.35

Table 7-17. Antenna 1 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 43 of 198

7.3.3 SDM Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						Antenna 0	Antenna 1	Summed				
	6535	117	106	53	MCS11	-1.10	-1.32	1.80	-0.95	0.85	14.00	-13.15
			106	54	MCS11	-1.43	-1.43	1.58	-0.95	0.63	14.00	-13.37
	6695	149	106	53	MCS11	-1.94	-1.23	1.44	-0.95	0.49	14.00	-13.51
			106	54	MCS11	-1.01	-1.10	1.96	-0.95	1.01	14.00	-12.99
	6875	185	106	53	MCS11	-1.78	-1.85	1.19	-0.95	0.24	14.00	-13.76
			106	54	MCS11	-1.81	-1.80	1.21	-0.95	0.26	14.00	-13.74
	6895	189	106	53	MCS11	-1.79	-1.89	1.17	-0.03	1.14	14.00	-12.86
			106	54	MCS11	-1.80	-1.94	1.14	-0.03	1.11	14.00	-12.89
	6995	209	106	53	MCS11	-2.31	-2.15	0.79	-0.03	0.76	14.00	-13.24
			106	54	MCS11	-2.44	-2.09	0.75	-0.03	0.72	14.00	-13.28
	7095	229	106	53	MCS11	-1.90	-1.98	1.07	-0.03	1.04	14.00	-12.96
			106	54	MCS11	-1.81	-2.06	1.08	-0.03	1.05	14.00	-12.95

Table 7-18. SDM 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Partially Loaded RU's)

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						Antenna 0	Antenna 1	Summed				
	6115	33	242	61	MCS11	-1.28	-1.53	1.61	2.01	3.62	14.00	-10.38
	6275	65	242	61	MCS11	-0.90	-0.17	2.49	2.01	4.50	14.00	-9.50
	6415	93	242	61	MCS11	-0.28	-0.21	2.77	2.01	4.78	14.00	-9.22
	6435	97	242	61	MCS11	-0.52	-0.77	2.37	1.26	3.63	14.00	-10.37
	6475	105	242	61	MCS11	-0.07	-0.35	2.80	1.26	4.06	14.00	-9.94
	6515	113	242	61	MCS11	-0.42	-0.94	2.34	1.26	3.60	14.00	-10.40
	6535	117	242	61	MCS11	1.45	1.77	4.62	-0.95	3.67	14.00	-10.33
	6695	149	242	61	MCS11	1.88	1.73	4.81	-0.95	3.86	14.00	-10.14
	6875	185	242	61	MCS11	1.37	0.55	3.99	-0.95	3.04	14.00	-10.96
	6895	189	242	61	MCS11	1.33	0.53	3.96	-0.03	3.93	14.00	-10.07
	6995	209	242	61	MCS11	1.39	1.33	4.37	-0.03	4.34	14.00	-9.66
	7095	229	242	61	MCS11	1.49	1.31	4.41	-0.03	4.38	14.00	-9.62

Table 7-19. SDM 20MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						Antenna 0	Antenna 1	Summed				
	6125	35	484	65	MCS11	1.47	0.93	4.22	2.01	6.23	14.00	-7.77
	6285	67	484	65	MCS11	2.03	2.31	5.18	2.01	7.19	14.00	-6.81
	6405	91	484	65	MCS11	2.16	2.26	5.22	2.01	7.23	14.00	-6.77
	6445	99	484	65	MCS11	1.89	2.46	5.20	1.26	6.46	14.00	-7.54
	6485	107	484	65	MCS11	2.37	2.17	5.28	1.26	6.54	14.00	-7.46
	6525	115	484	65	MCS11	2.21	2.25	5.24	-0.95	4.29	14.00	-9.71
	6565	123	484	65	MCS11	4.37	4.16	7.28	-0.95	6.33	14.00	-7.67
	6725	155	484	65	MCS11	3.70	4.36	7.05	-0.95	6.10	14.00	-7.90
	6845	179	484	65	MCS11	3.61	4.12	6.88	-0.95	5.93	14.00	-8.07
	6885	187	484	65	MCS11	3.91	3.54	6.74	-0.03	6.71	14.00	-7.29
	7005	211	484	65	MCS11	3.70	3.80	6.76	-0.03	6.73	14.00	-7.27
	7085	227	484	65	MCS11	3.73	3.81	6.78	-0.03	6.75	14.00	-7.25

Table 7-20. SDM 40MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						Antenna 0	Antenna 1	Summed				
	6145	39	996	67	MCS11	3.60	4.18	6.91	2.01	8.92	14.00	-5.08
	6305	71	996	67	MCS11	4.88	5.14	8.02	2.01	10.03	14.00	-3.97
	6385	87	996	67	MCS11	5.23	5.25	8.25	2.01	10.26	14.00	-3.74
	6465	103	996	67	MCS11	5.43	5.24	8.35	1.26	9.61	14.00	-4.39
	6625	135	996	67	MCS11	6.81	7.40	10.12	-0.95	9.17	14.00	-4.83
	6705	151	996	67	MCS11	6.58	7.48	10.06	-0.95	9.11	14.00	-4.89
	6865	183	996	67	MCS11	6.58	6.80	9.70	-0.95	8.75	14.00	-5.25
	6945	199	996	67	MCS11	6.28	6.60	9.45	-0.03	9.42	14.00	-4.58
	7025	215	996	67	MCS11	6.43	6.65	9.55	-0.03	9.52	14.00	-4.48

Table 7-21. SDM 80MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	RU Size	RU Index	Data Rate	Conducted Powers [dBm]			Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						Antenna 0	Antenna 1	Summed				
	6185	47	996x2	68	MCS11	6.30	6.94	9.64	2.01	11.65	14.00	-2.35
	6345	79	996x2	68	MCS11	7.84	7.96	10.91	2.01	12.92	14.00	-1.08
	6505	111	996x2	68	MCS11	7.37	8.00	10.71	1.26	11.97	14.00	-2.03
	6665	143	996x2	68	MCS11	9.90	9.64	12.78	-0.95	11.83	14.00	-2.17
	6825	175	996x2	68	MCS11	9.19	9.47	12.34	-0.95	11.39	14.00	-2.61
	6985	207	996x2	68	MCS11	8.95	9.34	12.16	-0.03	12.13	14.00	-1.87

Table 7-22. SDM 160MHz BW 802.11ax Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna 0 and Antenna 1 were first measured separately during SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.4.3, the correlated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.4.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Sample SDM Calculation:

At 6115MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be -1.28 dBm for Antenna 0 and -1.53 dBm for Antenna 1.

$$\text{Antenna 0} + \text{Antenna 1} = \text{SDM}$$

$$(-1.28 \text{ dBm} + -1.53 \text{ dBm}) = (0.745 \text{ mW} + 0.703 \text{ mW}) = 1.45 \text{ mW} = 1.61 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 6115MHz in 802.11ax (20MHz BW) mode, the average MIMO conducted power was calculated to be 1.61 dBm with directional gain of 2.01 dBi.

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

$$1.61 \text{ dBm} + 2.01 \text{ dBi} = 3.62 \text{ dBm}$$

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.4 Maximum Power Spectral Density

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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

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

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.2.2

KDB 789033 D02 v02r01 – Section F

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 14.5.2.2 Measure-and-Sum Technique

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

Test Settings

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

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. All RU's were investigated and only worst case partially loaded and fully loaded RU's were reported.
2. Low, mid, and high channels were tested and tabular data has been reported. Only worst case channel PSD plots have been reported.
3. 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.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.4.1 Antenna 0 Power Spectral Density Measurements – VLP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max ERP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	ax (20MHz)	106	53	MCS11	-8.75	2.85	-5.90	-5	-0.90
	6115	33	ax (20MHz)	106	54	MCS11	-8.84	2.85	-5.99	-5	-0.99
	6275	65	ax (20MHz)	106	53	MCS11	-8.83	1.87	-6.96	-5	-1.96
	6275	65	ax (20MHz)	106	54	MCS11	-8.86	1.87	-6.99	-5	-1.99
	6415	93	ax (20MHz)	106	53	MCS11	-8.78	1.45	-7.33	-5	-2.33
	6415	93	ax (20MHz)	106	54	MCS11	-8.81	1.45	-7.36	-5	-2.36
	6125	35	ax (40MHz)	106	53	MCS11	-8.71	2.85	-5.86	-5	-0.86
	6125	35	ax (40MHz)	106	54	MCS11	-8.97	2.85	-6.12	-5	-1.12
	6125	35	ax (40MHz)	106	56	MCS11	-9.14	2.85	-6.29	-5	-1.29
	6285	67	ax (40MHz)	106	53	MCS11	-9.28	1.87	-7.41	-5	-2.41
	6285	67	ax (40MHz)	106	54	MCS11	-9.43	1.87	-7.56	-5	-2.56
	6285	67	ax (40MHz)	106	56	MCS11	-9.24	1.87	-7.37	-5	-2.37
	6405	91	ax (40MHz)	106	53	MCS11	-8.73	1.45	-7.28	-5	-2.28
	6405	91	ax (40MHz)	106	54	MCS11	-8.94	1.45	-7.49	-5	-2.49
	6405	91	ax (40MHz)	106	56	MCS11	-8.63	1.45	-7.18	-5	-2.18
	6145	39	ax (80MHz)	106	53	MCS11	-8.57	2.85	-5.72	-5	-0.72
	6145	39	ax (80MHz)	106	56	MCS11	-9.22	2.85	-6.37	-5	-1.37
	6145	39	ax (80MHz)	106	60	MCS11	-9.39	2.85	-6.54	-5	-1.54
	6305	71	ax (80MHz)	106	53	MCS11	-8.40	1.87	-6.53	-5	-1.53
	6305	71	ax (80MHz)	106	56	MCS11	-8.57	1.87	-6.70	-5	-1.70
	6305	71	ax (80MHz)	106	60	MCS11	-8.27	1.87	-6.40	-5	-1.40
	6385	87	ax (80MHz)	106	53	MCS11	-9.03	1.45	-7.58	-5	-2.58
	6385	87	ax (80MHz)	106	56	MCS11	-9.12	1.45	-7.67	-5	-2.67
	6385	87	ax (80MHz)	106	60	MCS11	-9.00	1.45	-7.55	-5	-2.55
	6185	47(L)	ax (160MHz)	106	53	MCS11	-9.78	1.87	-7.91	-5	-6.91
	6185	47(L)	ax (160MHz)	106	60	MCS11	-9.94	1.87	-8.07	-5	-7.07
	6185	47(U)	ax (160MHz)	106	60	MCS11	-9.94	1.87	-8.07	-5	-7.07
	6333	79(L)	ax (160MHz)	106	53	MCS11	-8.69	1.45	-7.24	-5	-6.24
	6333	79(L)	ax (160MHz)	106	60	MCS11	-9.04	1.45	-7.59	-5	-6.59
	6333	79(U)	ax (160MHz)	106	60	MCS11	-9.04	1.45	-7.59	-5	-6.59
	6435	97	ax (20MHz)	106	53	MCS11	-9.47	1.73	-7.74	-5	-2.74
Band 6	6435	97	ax (20MHz)	106	54	MCS11	-9.59	1.73	-7.86	-5	-2.86
	6475	105	ax (20MHz)	106	53	MCS11	-9.51	1.73	-7.78	-5	-2.78
	6475	105	ax (20MHz)	106	54	MCS11	-9.35	1.73	-7.62	-5	-2.62
	6515	113	ax (20MHz)	106	53	MCS11	-9.77	1.73	-8.04	-5	-3.04
	6515	113	ax (20MHz)	106	54	MCS11	-9.90	1.73	-8.17	-5	-3.17
	6445	99	ax (40MHz)	106	53	MCS11	-9.71	1.73	-7.98	-5	-2.98
	6445	99	ax (40MHz)	106	54	MCS11	-8.89	1.73	-7.16	-5	-2.16
	6445	99	ax (40MHz)	106	56	MCS11	-9.23	1.73	-7.50	-5	-2.50
	6485	107	ax (40MHz)	106	53	MCS11	-9.27	1.73	-7.54	-5	-2.54
	6485	107	ax (40MHz)	106	54	MCS11	-9.49	1.73	-7.76	-5	-2.76
	6485	107	ax (40MHz)	106	56	MCS11	-9.46	1.73	-7.73	-5	-2.73
	6525	115	ax (40MHz)	106	53	MCS11	-9.75	1.73	-8.02	-5	-3.02
	6525	115	ax (40MHz)	106	54	MCS11	-9.10	1.73	-7.37	-5	-2.37
	6525	115	ax (40MHz)	106	56	MCS11	-9.38	1.73	-7.65	-5	-2.65
	6465	103	ax (80MHz)	106	53	MCS11	-9.22	1.73	-7.49	-5	-2.49
	6465	103	ax (80MHz)	106	56	MCS11	-9.41	1.73	-7.68	-5	-2.68
	6465	103	ax (80MHz)	106	60	MCS11	-9.54	1.73	-7.81	-5	-2.81
	6505	111(L)	ax (160MHz)	106	53	MCS11	-9.23	1.73	-7.50	-5	-6.50
	6505	111(L)	ax (160MHz)	106	60	MCS11	-9.79	1.73	-8.06	-5	-7.06
	6505	111(U)	ax (160MHz)	106	60	MCS11	-9.79	1.73	-8.06	-5	-7.06
	6535	117	ax (20MHz)	52	37	MCS11	-7.01	-1.02	-8.03	-5	-3.03
	6535	117	ax (20MHz)	52	39	MCS11	-7.20	-1.02	-8.22	-5	-3.22
Band 7	6695	149	ax (20MHz)	52	37	MCS11	-7.68	-1.02	-8.70	-5	-3.70
	6695	149	ax (20MHz)	52	39	MCS11	-7.79	-1.02	-8.81	-5	-3.81
	6875	185	ax (20MHz)	52	37	MCS11	-8.11	-1.02	-9.13	-5	-4.13
	6875	185	ax (20MHz)	52	39	MCS11	-8.14	-1.02	-9.16	-5	-4.16
	6965	123	ax (40MHz)	52	37	MCS11	-7.27	-1.02	-8.29	-5	-3.29
	6965	123	ax (40MHz)	52	40	MCS11	-7.64	-1.02	-8.66	-5	-3.66
	6965	123	ax (40MHz)	52	44	MCS11	-7.33	-1.02	-8.35	-5	-3.35
	6725	155	ax (40MHz)	52	37	MCS11	-6.96	-1.02	-7.98	-5	-2.98
	6725	155	ax (40MHz)	52	40	MCS11	-7.10	-1.02	-8.12	-5	-3.12
	6725	155	ax (40MHz)	52	44	MCS11	-7.21	-1.02	-8.23	-5	-3.23
	6845	179	ax (40MHz)	52	37	MCS11	-7.35	-1.02	-8.37	-5	-3.37
	6845	179	ax (40MHz)	52	40	MCS11	-7.59	-1.02	-8.61	-5	-3.61
	6845	179	ax (40MHz)	52	44	MCS11	-7.21	-1.02	-8.23	-5	-3.23
	6545	119	ax (80MHz)	106	53	MCS11	-9.84	-1.02	-10.86	-5	-5.86
	6545	119	ax (80MHz)	106	56	MCS11	-9.98	-1.02	-11.00	-5	-6.00
	6545	119	ax (80MHz)	106	60	MCS11	-9.72	-1.02	-10.74	-5	-5.74
	6705	151	ax (80MHz)	52	37	MCS11	-7.60	-1.02	-8.62	-5	-3.62
	6705	151	ax (80MHz)	52	44	MCS11	-7.81	-1.02	-8.83	-5	-3.83
	6705	151	ax (80MHz)	52	52	MCS11	-7.46	-1.02	-8.48	-5	-3.48
	6865	183	ax (80MHz)	52	37	MCS11	-8.45	-1.02	-9.47	-5	-4.47
	6865	183	ax (80MHz)	52	44	MCS11	-8.57	-1.02	-9.59	-5	-4.59
	6865	183	ax (80MHz)	52	52	MCS11	-8.52	-1.02	-9.54	-5	-4.54
	6665	143(L)	ax (160MHz)	52	37	MCS11	-7.52	-1.02	-8.54	-5	-3.54
	6665	143(L)	ax (160MHz)	52	52	MCS11	-7.26	-1.02	-8.28	-5	-3.28
	6665	143(U)	ax (160MHz)	52	52	MCS11	-7.26	-1.02	-8.28	-5	-3.28
	6825	175(L)	ax (160MHz)	52	37	MCS11	-8.32	-1.02	-9.34	-5	-4.34
	6825	175(L)	ax (160MHz)	52	52	MCS11	-8.40	-1.02	-9.42	-5	-4.42
	6825	175(U)	ax (160MHz)	52	52	MCS11	-8.40	-1.02	-9.42	-5	-4.42
Band 8	6895	189	ax (20MHz)	52	37	MCS11	-8.13	-0.26	-8.39	-5	-3.39
	6895	189	ax (20MHz)	52	39	MCS11	-8.17	-0.26	-8.43	-5	-3.43
	6895	189	ax (20MHz)	52	40	MCS11	-8.20	-0.26	-8.46	-5	-3.46
	6995	209	ax (20MHz)	52	37	MCS11	-8.55	-0.26	-8.81	-5	-3.81
	6995	209	ax (20MHz)	52	39	MCS11	-8.12	-0.26	-8.38	-5	-3.38
	6995	209	ax (20MHz)	52	40	MCS11	-8.12	-0.26	-8.38	-5	-3.38
	7095	229	ax (20MHz)	52	37	MCS11	-8.21	-0.26	-8.47	-5	-3.47
	7095	229	ax (20MHz)	52	39	MCS11	-8.16	-0.26	-8.42	-5	-3.42
	7095	229	ax (20MHz)	52	40	MCS11	-8.05	-0.26	-8.31	-5	-3.31
	6885	187	ax (40MHz)	52	37	MCS11	-7.99	-0.26	-8.25	-5	-3.25
	6885	187	ax (40MHz)	52	40	MCS11	-8.26	-0.26	-8.52	-5	-3.52
	6885	187	ax (40MHz)	52	44	MCS11	-8.04	-0.26	-8.30	-5	-3.30
	7005	211	ax (40MHz)	52	37	MCS11	-8.47	-0.26	-8.73	-5	-3.73
	7005	211	ax (40MHz)	52	40	MCS11	-8.23	-0.26	-8.49	-5	-3.49
	7005	211	ax (40MHz)	52	44	MCS11	-8.41	-0.26	-8.67	-5	-3.67
	7085	227	ax (40MHz)	52	37	MCS11	-8.08	-0.26	-8.34	-5	-3.34
	7085	227	ax (40MHz)	52	40	MCS11	-8.27	-0.26	-8.53	-5	-3.53
	7085	227	ax (40MHz)	52	44	MCS11	-8.00	-0.26	-8.26	-5	-3.26
	6945	199	ax (80MHz)	52	37	MCS11	-8.38	-0.26	-8.64	-5	-3.64
	6945	199	ax (80MHz)	52	44	MCS11	-8.46	-0.26	-8.72	-5	-3.72
	6945	199	ax (80MHz)	52	52	MCS11	-8.41	-0.26	-8.67	-5	-3.67
	7025	215	ax (80MHz)	52	37	MCS11	-8.19	-0.26	-8.45	-5	-3.45
	7025	215	ax (80MHz)	52	44	MCS11	-8.43	-0.26	-8.69	-5	-3.69
	7025	215	ax (80MHz)	52	52	MCS11	-8.25	-0.26	-8.51	-5	-3.51
	6985	207(L)	ax (160MHz)	52	37	MCS11	-7.96	-0.26	-8.22	-5	-3.22
	6985	207(L)	ax (160MHz)	52	52	MCS11	-8.04	-0.26	-8.30	-5	-3.30
	6985	207(U)	ax (160MHz)	52	52	MCS11	-8.04	-0.26	-8.30	-5	-3.30

Table 7-23. Power Spectral Density Measurements Antenna 0 (Partially Loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 48 of 198

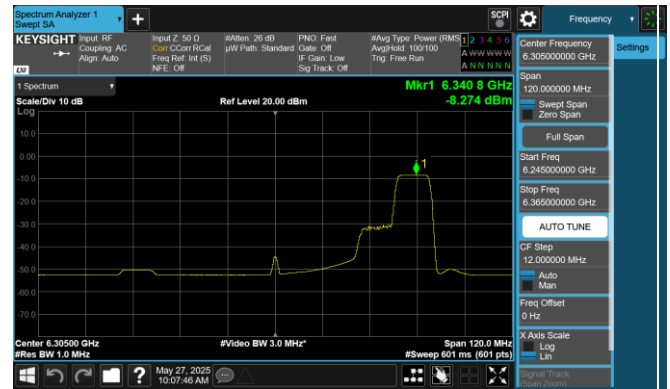
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	ax (20MHz)	242	61	MCS11	-10.57	2.85	-7.72	-5	-2.72
	6275	65	ax (20MHz)	242	61	MCS11	-9.40	1.87	-7.53	-5	-2.53
	6415	93	ax (20MHz)	242	61	MCS11	-9.41	1.45	-7.96	-5	-2.96
	6125	35	ax (40MHz)	484	65	MCS11	-11.46	2.85	-8.61	-5	-3.61
	6285	67	ax (40MHz)	484	65	MCS11	-9.88	1.87	-8.01	-5	-3.01
	6405	91	ax (40MHz)	484	65	MCS11	-9.83	1.45	-8.38	-5	-3.38
	6145	39	ax (80MHz)	996	67	MCS11	-10.64	2.85	-7.79	-5	-2.79
	6305	71	ax (80MHz)	996	67	MCS11	-9.56	1.87	-7.69	-5	-2.69
	6385	87	ax (80MHz)	996	67	MCS11	-9.64	1.45	-8.19	-5	-3.19
	6185	47	ax (160MHz)	996	68	MCS11	-11.53	1.87	-9.66	-5	-4.66
Band 6	6333	79	ax (160MHz)	996	68	MCS11	-10.68	1.45	-9.23	-5	-4.23
	6435	97	ax (20MHz)	242	61	MCS11	-10.03	1.73	-8.30	-5	-3.30
	6475	105	ax (20MHz)	242	61	MCS11	-10.26	1.73	-8.53	-5	-3.53
	6515	113	ax (20MHz)	242	61	MCS11	-10.79	1.73	-9.06	-5	-4.06
	6445	99	ax (40MHz)	484	65	MCS11	-11.04	1.73	-9.31	-5	-4.31
	6485	107	ax (40MHz)	484	65	MCS11	-10.60	1.73	-8.87	-5	-3.87
	6525	115	ax (40MHz)	484	65	MCS11	-10.94	1.73	-9.21	-5	-4.21
	6465	103	ax (80MHz)	996	67	MCS11	-10.11	1.73	-8.38	-5	-3.38
Band 7	6505	111	ax (160MHz)	996	68	MCS11	-10.49	1.73	-8.76	-5	-3.76
	6535	117	ax (20MHz)	242	61	MCS11	-8.13	-1.02	-9.15	-5	-4.15
	6695	149	ax (20MHz)	242	61	MCS11	-7.45	-1.02	-8.47	-5	-3.47
	6875	185	ax (20MHz)	242	61	MCS11	-8.34	-1.02	-9.36	-5	-4.36
	6565	123	ax (40MHz)	484	65	MCS11	-7.93	-1.02	-8.95	-5	-3.95
	6725	155	ax (40MHz)	484	65	MCS11	-8.11	-1.02	-9.13	-5	-4.13
	6845	179	ax (40MHz)	484	65	MCS11	-8.38	-1.02	-9.40	-5	-4.40
	6545	119	ax (80MHz)	996	67	MCS11	-10.40	-1.02	-11.42	-5	-6.42
	6705	151	ax (80MHz)	996	67	MCS11	-8.08	-1.02	-9.10	-5	-4.10
	6865	183	ax (80MHz)	996	67	MCS11	-9.11	-1.02	-10.13	-5	-5.13
Band 8	6665	143	ax (160MHz)	996	68	MCS11	-8.59	-1.02	-9.61	-5	-4.61
	6825	175	ax (160MHz)	996	68	MCS11	-10.06	-1.02	-11.08	-5	-6.08
	6895	189	ax (20MHz)	242	61	MCS11	-8.42	-0.26	-8.68	-5	-3.68
	6995	209	ax (20MHz)	242	61	MCS11	-8.60	-0.26	-8.86	-5	-3.86
	7115	229	ax (20MHz)	242	61	MCS11	-8.50	-0.26	-8.76	-5	-3.76
	6885	187	ax (40MHz)	484	65	MCS11	-8.89	-0.26	-9.15	-5	-4.15
	7005	211	ax (40MHz)	484	65	MCS11	-9.07	-0.26	-9.33	-5	-4.33
	7085	227	ax (40MHz)	484	65	MCS11	-8.98	-0.26	-9.24	-5	-4.24
	6945	199	ax (80MHz)	996	67	MCS11	-9.24	-0.26	-9.50	-5	-4.50
	7025	215	ax (80MHz)	996	67	MCS11	-9.18	-0.26	-9.44	-5	-4.44
	6985	207	ax (160MHz)	996	68	MCS11	-10.17	-0.26	-10.43	-5	-5.43

Table 7-24. Power Spectral Density Measurements Antenna 0 (Fully – Loaded RU)

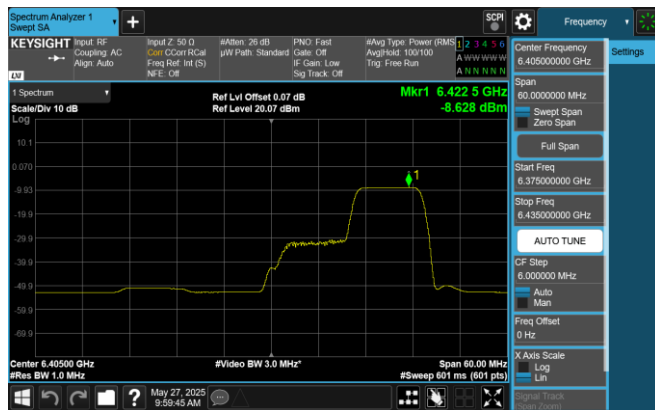
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 49 of 198



Plot 7-65. PSD Plot Antenna 0 (20MHz 802.11ax RU106 (UNII Band 5) – Ch. 33)



Plot 7-67. PSD Plot Antenna 0 (80MHz 802.11ax RU106 (UNII Band 5) – Ch. 71)



Plot 7-66. PSD Plot Antenna 0 (40MHz 802.11ax RU106 (UNII Band 5) – Ch. 91)



Plot 7-68. PSD Plot Antenna 0 (160MHz 802.11ax RU106 (UNII Band 5) – Ch. 79)

FCC ID: BCGA3300 IC: 579C-A3300	element	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-12-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 50 of 198