

MEASUREMENT REPORT

FCC PART 15.407 / ISED RSS-247 UNII 802.11ax (OFDMA)

Applicant Name:

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

Date of Testing:

3/24/2025 - 7/4/2025

Test Report Issue Date:

10/2/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2503170028-07-R1.BCG

FCC ID:	BCGA3300
IC:	579C-A3300
APPLICANT:	Apple Inc.

Application Type:

Certification

Model/HVIN:

A3300

EUT Type:

Smart Speaker with Display

Frequency Range:

5180 – 5825MHz

Modulation Type:

OFDMA

FCC Classification:

Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-247 Issue 4

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

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 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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.		

V 12.0 03/03/2026

Revision Summary

Revision	Date	Comments	Revised By
-	2/12/2026	Initial Release	WKR0000010305
R1	9/21/2026	Addressed comment in section 1.3, 2.4, and 7	WKR007077

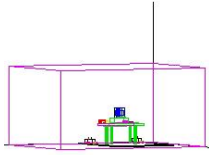
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 2 of 164

V 12.0 03/03/2026

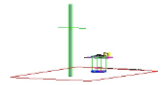
TABLE OF CONTENTS

1.0	INTRODUCTION	5
1.1	Scope.....	5
1.2	Element Materials Technology Test Location	5
1.3	Test Facility / Accreditations.....	5
2.0	PRODUCT INFORMATION	6
2.1	Equipment Description	6
2.2	Device Capabilities.....	6
2.3	Antenna Description.....	10
2.4	Test Support Equipment.....	10
2.5	Test Configuration.....	11
2.6	Software and Firmware	11
2.7	EMI Suppression Device(s)/Modifications.....	11
3.0	DESCRIPTION OF TESTS	12
3.1	Evaluation Procedure	12
3.2	AC Line Conducted Emissions	12
3.3	Radiated Emissions.....	13
3.4	Environmental Conditions.....	13
4.0	ANTENNA REQUIREMENTS	14
5.0	MEASUREMENT UNCERTAINTY	15
6.0	TEST EQUIPMENT CALIBRATION DATA.....	16
7.0	TEST RESULTS	17
7.1	Summary.....	17
7.2	26dB & 99% Bandwidth Measurement	18
7.3	6dB Bandwidth Measurement	31
7.4	Conducted Output Power and Max EIRP Measurement	36
7.5	Maximum Power Spectral Density	53
7.6	Radiated Spurious Emission – Above 1GHz.....	80
7.7	Radiated Spurious Emissions – Below 1GHz	153
7.8	AC Line Conducted Emissions Measurement.....	158
8.0	CONCLUSION.....	164

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 3 of 164



MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Tx Frequency (MHz)	SISO				CDD/SDM	
			Antenna 0		Antenna 1		Summed	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	5180 - 5240	62.806	17.98	59.979	17.78	123.310	20.91
2A		5260 - 5320	66.834	18.25	68.077	18.33	122.180	20.87
2C		5500 - 5720	66.069	18.20	68.391	18.35	125.314	20.98
3		5745 - 5825	65.013	18.13	64.269	18.08	133.968	21.27
1	40	5190 - 5230	57.016	17.56	61.518	17.89	118.304	20.73
2A		5270 - 5310	54.450	17.36	55.847	17.47	92.683	19.67
2C		5510 - 5710	66.681	18.24	69.183	18.40	135.519	21.32
3		5755 - 5795	65.615	18.17	67.608	18.30	132.130	21.21
1	80	5210	12.359	10.92	11.535	10.62	21.528	13.33
2A		5290	11.482	10.60	11.967	10.78	20.701	13.16
2C		5530 - 5690	66.222	18.21	65.013	18.13	136.458	21.35
3		5775	26.424	14.22	26.303	14.20	47.424	16.76
1/2A	160	5250	12.474	10.96	11.588	10.64	21.281	13.28
2C		5570	9.977	9.99	9.616	9.83	15.631	11.94

FCC EUT Overview

UNII Band	Channel Bandwidth (MHz)	Tx Frequency (MHz)	SISO				CDD/SDM Primary	
			Antenna 0		Antenna 1		Summed	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	5180 - 5240	60.814	17.84	61.518	17.89	68.549	18.36
2A		5260 - 5320	66.834	18.25	68.077	18.33	122.180	20.87
2C		5500 - 5720	66.069	18.20	68.391	18.35	125.314	20.98
3		5745 - 5825	65.013	18.13	64.269	18.08	133.968	21.27
1	40	5190 - 5230	62.373	17.95	60.395	17.81	103.039	20.13
2A		5270 - 5310	54.450	17.36	55.847	17.47	92.683	19.67
2C		5510 - 5710	66.681	18.24	69.183	18.40	135.519	21.32
3		5755 - 5795	65.615	18.17	67.608	18.30	132.130	21.21
1	80	5210	11.614	10.65	11.272	10.52	21.528	13.33
2A		5290	11.482	10.60	11.967	10.78	20.701	13.16
2C		5530 - 5690	66.222	18.21	65.013	18.13	136.458	21.35
3		5775	26.424	14.22	26.303	14.20	47.424	16.76
1/2A	160	5250	12.474	10.96	11.588	10.64	21.281	13.28
2C		5570	9.550	9.80	9.290	9.68	15.631	11.94

ISED EUT Overview

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 4 of 164

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 ISSED Standards (RSS).
- Element Materials Technology facility is a registered test laboratory with the site description on file with ISSED (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 ISSED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 5 of 164

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 802.11ax - RU transmitter.

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

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).

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 6 of 164

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

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

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

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

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

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

Band 1		Band 2A		Band 2C	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
50	5250	50	5250	114	5570

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 7 of 164

Notes:

- 5GHz NII operation is possible in 20MHz, 40MHz, 80MHz, and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of KDB 789033 D02 v02r01 and ANSI C63.10:2020 + 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:

Measured Duty Cycles							
802.11 Mode/Band		Duty Cycle [%]					
		Antenna 0		Antenna 1		CDD/SDM	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
5GHz	11ax(RU) 26T HE20	98.54	0.050	98.31	0.074	98.72	0.056
	11ax(RU) 242T HE20	98.42	0.069	98.29	0.075	97.86	0.094
	ax(RU) 26T HE40	98.31	0.074	98.58	0.062	98.31	0.074
	ax(RU) 484T HE40	96.63	0.149	96.81	0.141	96.81	0.141
	ax(RU) 26T HE80	98.31	0.074	98.31	0.074	98.58	0.062
	ax(RU) 996T HE80	94.43	0.249	94.32	0.254	94.67	0.238
	ax(RU) 26T HE160	98.31	0.074	98.74	0.055	98.31	0.074
	ax(RU) 996x2T HE160	90.57	0.430	90.57	0.430	90.99	0.410

Table 2-4. Measured Duty Cycles

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

- The device employs CDD/SDM 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
5GHz	11ax (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-5. WIFI Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

CDD = Cyclic Delay Diversity – 2Tx Function

SDM = Spatial Diversity Multiplexing – CDD/SDM function

STBC = Space-Time Block Coding – 2Tx Function

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 8 of 164

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

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

Table 2-6. 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 2-7. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 2 and reported in RF 802.15.4 and RF UNII 5GHz OFDM test reports.

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Test Report S/N: 1C2503170028-07-R1.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 9 of 164

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.

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna 0	Antenna 1
5.150 – 5.250	1.10	0.90
5.250 – 5.350	1.35	1.27
5.470 – 5.725	2.50	2.01
5.725 – 5.850	2.76	3.03

Table 2-8. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Banana Split	S/N:	200730
3	USB-C Cable	Model:	A246C	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V

Table 2-9. Test Support Equipment List

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 10 of 164

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 and KDB 789033 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 was investigated
- EUT powered by AC/DC adaptor via USB-C cable with wire charger

802.11ax-RU HE20/40/80/160 2TX CDD/SDM mode test data provided in this report covers 802.11ax-RU HE20/40/80/160 2TX STBC mode.

For 802.11a/n/ac/ax-SU test results, see separate UNII report, 1C2503170028-06-R2.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.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 11 of 164

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 12 of 164

3.3 Radiated Emissions

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

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

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

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

3.4 Environmental Conditions

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 13 of 164

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.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 14 of 164

V 12.0 03/03/2026

5.0 MEASUREMENT UNCERTAINTY

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

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 15 of 164

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
Rohde & Schwarz	180-422-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-03
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/16/2024	Annual	9/16/2025	240049
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Keysight Technology	N9040B	UXA Signal Analyzer	7/16/2024	Annual	7/16/2025	US57212289
Keysight Technology	N9030A	PXA Signal Analyzer	7/11/2024	Annual	7/11/2025	MY49430244
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSV40-N	Signal Analyzer (10Hz-40GHz)	9/6/2024	Annual	9/6/2025	101814
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	7/12/2024	Annual	7/12/2025	101363
Rohde & Schwarz	SMW200A	Vector Signal Generator	7/5/2023	Biennial	7/5/2025	107818

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.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 16 of 164

7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3300
 IC: 579C-A3300
 FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407	RSS-Gen [5.1]	26dB Bandwidth	N/A	CONDUCTED	N/A	Section 7.2
15.407(e)	RSS-247 [7.3.4.2]	6dB Bandwidth	>500kHz(5725-5850MHz)		PASS	Section 7.3
2.1049	RSS-Gen [5.1]	Occupied Bandwidth	N/A		N/A	Section 7.2, 7.3
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [7.3])		PASS	Section 7.4
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [7.3])		PASS	Section 7.5
15.407(h)	RSS-247 [7.3.6]	Dynamic Frequency Selection	See DFS Test Report	RADIATED	PASS	See DFS Test Report (1C250317002 8-08.BCG)
15.407(b.1), (b.2), (b.3), (b.4)	RSS-247 [7.3.1.3], [7.3.2.3], [7.3.3.3], [7.3.4.4]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [7.3])		PASS	Section 7.6
15.205, 15.407(b.1), (b.2), (b.3), (b.4)	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, 7.6.13
15.207	RSS-Gen [7.4.2]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [7.4.2]) limits	AC LINE CONDUCTED	PASS	Section 7.8

Table 7-1. Summary of Test Results

Notes:

- All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “Conducted Automation,” Version 1.1.1.
- For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “Chamber Automation,” Version 3.1.0.
- This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
- 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
- Only one RU index could be selected at a time so no contiguous or non-contiguous RU’s were considered for testing.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 17 of 164

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.

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

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 18 of 164

7.2.1 Antenna 0 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.89	20.52
				26	4	12.5/14.7 (MCS11)	16.80	18.04
				26	8	12.5/14.7 (MCS11)	18.88	20.78
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.78	36.16
				26	4	12.5/14.7 (MCS11)	16.88	18.04
				26	8	12.5/14.7 (MCS11)	18.48	20.24
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.50	20.11
				26	4	12.5/14.7 (MCS11)	16.94	18.03
				26	8	12.5/14.7 (MCS11)	18.48	20.27
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.80	19.17
				26	8	12.5/14.7 (MCS11)	20.51	24.49
				26	17	12.5/14.7 (MCS11)	17.69	19.22
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.66	19.11
				26	8	12.5/14.7 (MCS11)	19.92	22.33
				26	17	12.5/14.7 (MCS11)	17.63	18.97
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	18.13	19.57
				26	18	12.5/14.7 (MCS11)	36.76	38.67
				26	36	12.5/14.7 (MCS11)	18.03	19.42

Table 7-2. Conducted BW Measurements Antenna 0 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.27
				26	4	12.5/14.7 (MCS11)	16.98
				26	8	12.5/14.7 (MCS11)	18.26
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.24
				26	4	12.5/14.7 (MCS11)	16.97
				26	8	12.5/14.7 (MCS11)	18.20
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.17
				26	4	12.5/14.7 (MCS11)	16.84
				26	8	12.5/14.7 (MCS11)	18.08
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.66
				26	8	12.5/14.7 (MCS11)	18.87
				26	17	12.5/14.7 (MCS11)	17.58
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.53
				26	8	12.5/14.7 (MCS11)	18.91
				26	17	12.5/14.7 (MCS11)	17.59
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	17.88
				26	18	12.5/14.7 (MCS11)	36.61
				26	36	12.5/14.7 (MCS11)	17.85

Table 7-3. Conducted BW Measurements Antenna 0 (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 19 of 164

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1/2A	5250	50	ax (160MHz)	52	37	25/29.4 (MCS11)	18.04	19.83
				52	52	25/29.4 (MCS11)	19.98	23.34
		50		52	52	25/29.4 (MCS11)	18.04	20.38
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	18.37	20.25
				52	38	25/29.4 (MCS11)	16.98	18.23
				52	40	25/29.4 (MCS11)	18.29	20.08
	5300	60	ax (20MHz)	52	37	25/29.4 (MCS11)	18.35	20.35
				52	38	25/29.4 (MCS11)	16.98	18.29
				52	40	25/29.4 (MCS11)	18.21	20.50
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	18.32	20.24
				52	38	25/29.4 (MCS11)	17.03	18.27
				52	40	25/29.4 (MCS11)	18.31	20.79
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	17.74	19.57
				52	40	25/29.4 (MCS11)	19.46	22.50
				52	44	25/29.4 (MCS11)	17.58	19.22
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	17.65	19.91
				52	40	25/29.4 (MCS11)	19.46	23.06
				52	44	25/29.4 (MCS11)	17.62	19.04
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	17.90	19.91
				52	44	25/29.4 (MCS11)	19.27	22.01
				52	52	25/29.4 (MCS11)	17.78	19.65
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	18.27	20.22
				52	38	25/29.4 (MCS11)	17.03	18.28
				52	40	25/29.4 (MCS11)	18.24	20.70
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	18.41	21.26
				52	38	25/29.4 (MCS11)	17.03	18.22
				52	40	25/29.4 (MCS11)	18.31	20.84
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	18.39	21.33
				52	38	25/29.4 (MCS11)	16.96	18.17
				52	40	25/29.4 (MCS11)	18.40	20.60
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	17.72	19.44
				52	40	25/29.4 (MCS11)	19.32	23.11
				52	44	25/29.4 (MCS11)	17.67	20.44
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	18.15	20.74
				52	40	25/29.4 (MCS11)	19.62	22.28
				52	44	25/29.4 (MCS11)	17.63	20.09
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	17.67	19.53
				52	40	25/29.4 (MCS11)	19.56	22.77
				52	44	25/29.4 (MCS11)	17.63	19.43
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	17.96	20.53
				52	44	25/29.4 (MCS11)	18.85	22.53
				52	52	25/29.4 (MCS11)	17.90	20.60
	5610	122	ax (80MHz)	52	37	25/29.4 (MCS11)	17.90	19.89
				52	44	25/29.4 (MCS11)	18.69	22.43
				52	52	25/29.4 (MCS11)	17.84	19.29
	5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	17.83	19.33
				52	44	25/29.4 (MCS11)	18.99	22.51
				52	52	25/29.4 (MCS11)	17.66	19.17
	5570	114	ax (160MHz)	52	37	25/29.4 (MCS11)	18.08	19.62
				52	52	25/29.4 (MCS11)	20.07	23.68
		114		52	52	25/29.4 (MCS11)	18.08	20.39

Table 7-4. Conducted BW Measurements Antenna 0 (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	52	37	25/29.4 (MCS11)	18.12
				52	38	25/29.4 (MCS11)	17.01
				52	40	25/29.4 (MCS11)	18.14
	5785	157	ax (20MHz)	52	37	25/29.4 (MCS11)	18.13
				52	38	25/29.4 (MCS11)	16.91
				52	40	25/29.4 (MCS11)	18.17
	5825	165	ax (20MHz)	52	37	25/29.4 (MCS11)	18.15
				52	38	25/29.4 (MCS11)	16.91
				52	40	25/29.4 (MCS11)	18.19
	5755	151	ax (40MHz)	52	37	25/29.4 (MCS11)	17.58
				52	40	25/29.4 (MCS11)	18.65
				52	44	25/29.4 (MCS11)	17.44
	5795	159	ax (40MHz)	52	37	25/29.4 (MCS11)	17.61
				52	40	25/29.4 (MCS11)	18.52
				52	44	25/29.4 (MCS11)	17.53
	5775	155	ax (80MHz)	52	37	25/29.4 (MCS11)	17.85
				52	44	25/29.4 (MCS11)	17.75
				52	52	25/29.4 (MCS11)	17.61

Table 7-5. Conducted BW Measurements Antenna 0 (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

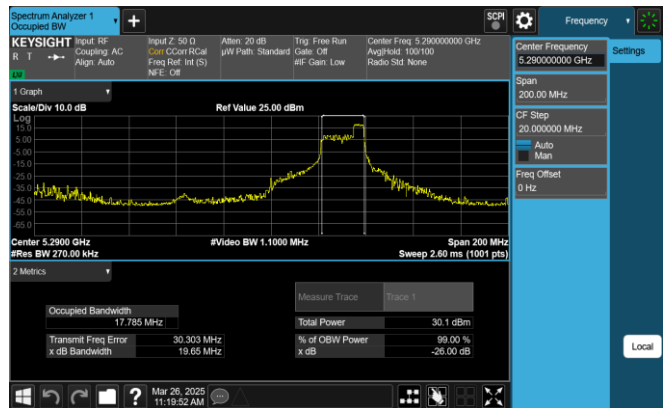
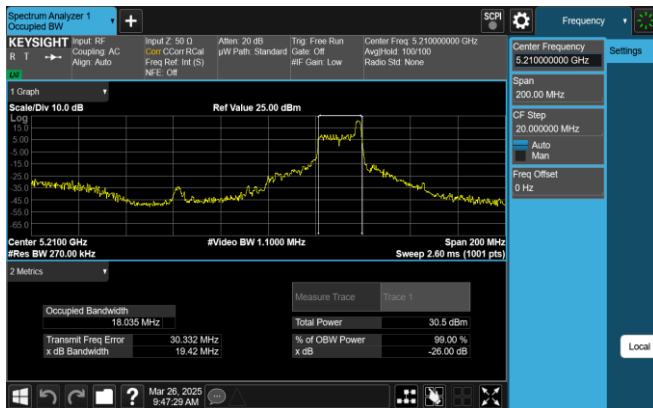
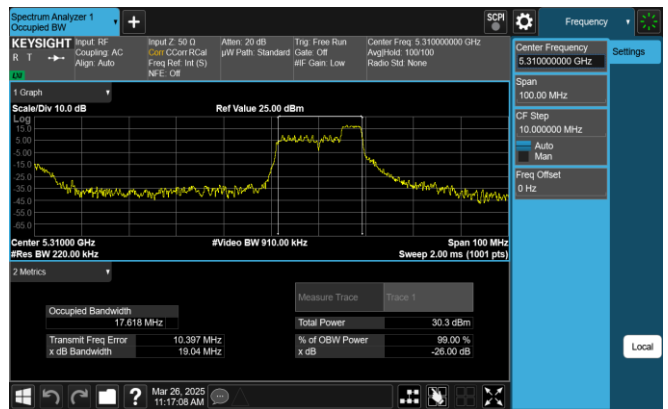
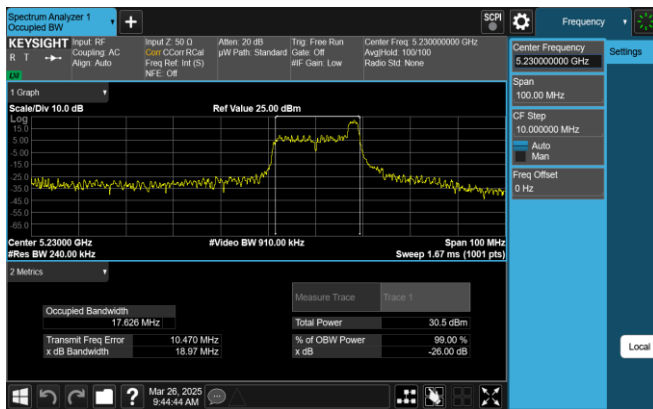
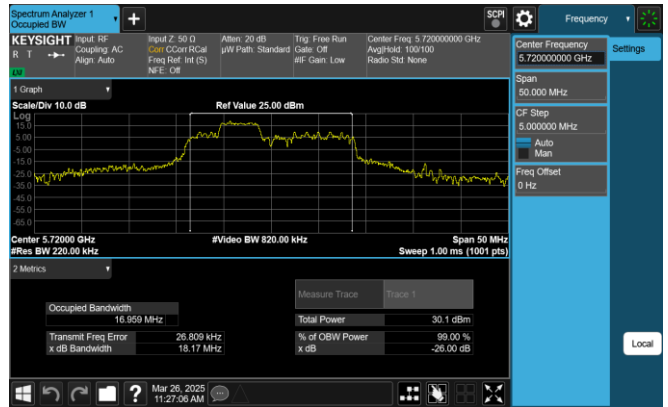
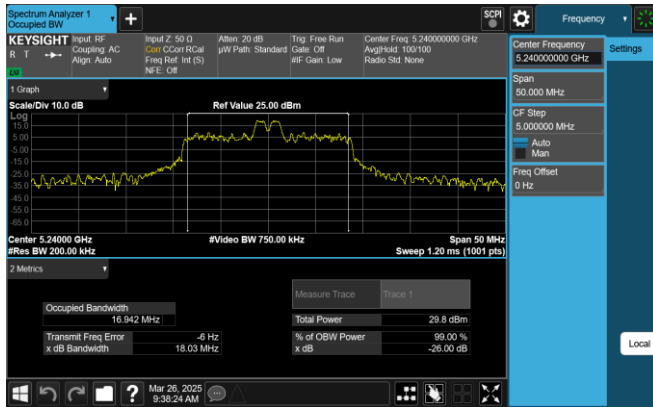
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.42	39.36
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.28	31.75
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.28	29.44
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.31	73.71
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.31	57.04
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	78.83	170.21
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	175.48	346.93
Band 2A	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.22	24.46
	5300	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.20	25.28
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.24	24.80
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.10	46.61
	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.13	40.94
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	78.11	163.04
Band 2C	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.19	24.81
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.34	28.61
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.48	34.58
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.29	61.02
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.22	63.85
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.32	61.09
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	78.55	171.49
	5610	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	79.12	179.67
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	79.24	180.67
	5570	114	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	174.29	390.29

Table 7-6. Conducted BW Measurements Antenna 0 (Fully – loaded RU)

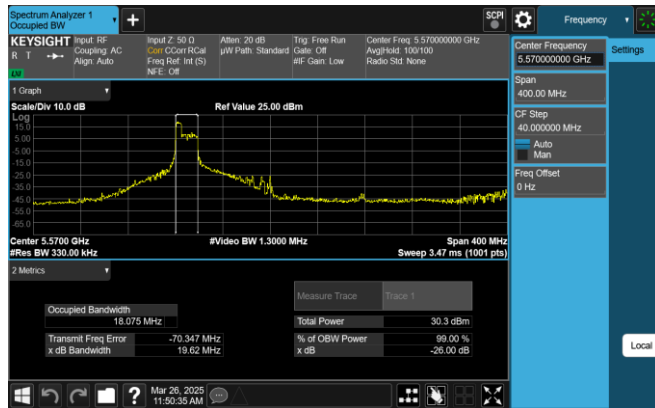
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	242	61	135/143.4 (MCS11)	19.09
	5785	157	ax (20MHz)	242	61	135/143.4 (MCS11)	19.08
	5825	165	ax (20MHz)	242	61	135/143.4 (MCS11)	19.11
	5755	151	ax (40MHz)	484	65	271/286.8 (MCS11)	38.01
	5795	159	ax (40MHz)	484	65	271/286.8 (MCS11)	37.99
	5775	155	ax (80MHz)	996	67	567/600.5 (MCS11)	77.74

Table 7-7. Conducted BW Measurements Antenna 0 (Fully – loaded RU)

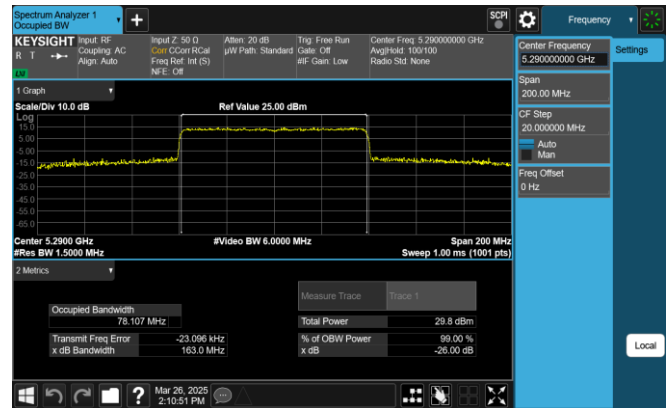
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 22 of 164



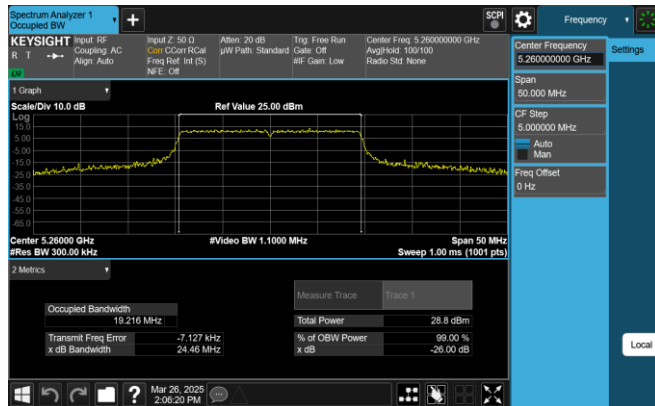
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 23 of 164



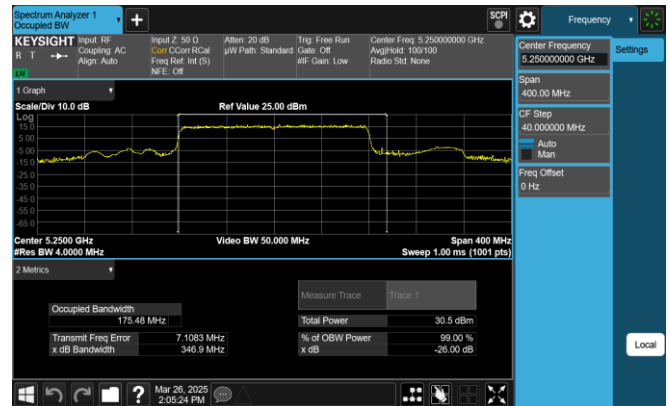
Plot 7-7. 26dB BW & 99% OBW Antenna 0 (160MHz BW 11ax Index 37 – RU52 – Ch.114)



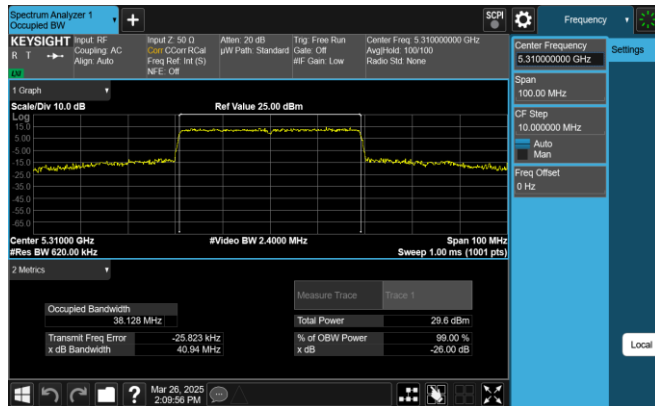
Plot 7-10. 26dB BW & 99% OBW Antenna 0 (80MHz BW 11ax– RU996 – Ch.58)



Plot 7-8. 26dB BW & 99% OBW Antenna 0 (20MHz BW 11ax– RU242 – Ch.52)



Plot 7-11. 26dB BW & 99% OBW Antenna 0 (160MHz BW 11ax– RU996x2 – Ch.50)



Plot 7-9. 26dB BW & 99% OBW Antenna 0 (40MHz BW 11ax– RU484 – Ch.62)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164	

7.2.2 Antenna 1 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.45	20.23
				26	4	12.5/14.7 (MCS11)	16.95	17.99
				26	8	12.5/14.7 (MCS11)	18.43	20.32
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.54	20.06
				26	4	12.5/14.7 (MCS11)	16.84	18.14
				26	8	12.5/14.7 (MCS11)	18.31	20.52
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.48	20.05
				26	4	12.5/14.7 (MCS11)	16.93	18.11
				26	8	12.5/14.7 (MCS11)	18.46	20.14
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.74	19.13
				26	8	12.5/14.7 (MCS11)	19.89	22.49
				26	17	12.5/14.7 (MCS11)	17.53	19.06
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.77	18.98
				26	8	12.5/14.7 (MCS11)	19.77	21.81
				26	17	12.5/14.7 (MCS11)	17.64	19.33
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	17.98	19.26
				26	18	12.5/14.7 (MCS11)	36.62	38.48
				26	36	12.5/14.7 (MCS11)	17.98	19.39

Table 7-8. Conducted BW Measurements Antenna 1 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.25
				26	4	12.5/14.7 (MCS11)	16.91
				26	8	12.5/14.7 (MCS11)	18.20
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.27
				26	4	12.5/14.7 (MCS11)	16.86
				26	8	12.5/14.7 (MCS11)	18.20
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.21
				26	4	12.5/14.7 (MCS11)	16.89
				26	8	12.5/14.7 (MCS11)	18.29
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.65
				26	8	12.5/14.7 (MCS11)	19.23
				26	17	12.5/14.7 (MCS11)	17.64
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.66
				26	8	12.5/14.7 (MCS11)	19.18
				26	17	12.5/14.7 (MCS11)	17.59
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	17.82
				26	18	12.5/14.7 (MCS11)	36.61
				26	36	12.5/14.7 (MCS11)	17.84

Table 7-9. Conducted BW Measurements Antenna 1 (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1/2A	5250	50	ax (160MHz)	52	37	25/29.4 (MCS11)	19.91	23.32
		50		52	52	25/29.4 (MCS11)	18.02	20.09
				52	52	25/29.4 (MCS11)	18.05	19.87
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	18.27	20.16
				52	38	25/29.4 (MCS11)	17.03	18.26
				52	40	25/29.4 (MCS11)	18.23	20.42
	5300	60	ax (20MHz)	52	37	25/29.4 (MCS11)	18.26	20.32
				52	38	25/29.4 (MCS11)	16.89	18.28
				52	40	25/29.4 (MCS11)	18.13	20.64
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	18.30	20.42
				52	38	25/29.4 (MCS11)	16.94	18.25
				52	40	25/29.4 (MCS11)	18.25	20.39
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	18.00	20.22
				52	40	25/29.4 (MCS11)	19.23	21.83
				52	44	25/29.4 (MCS11)	17.61	19.07
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	17.68	19.56
				52	40	25/29.4 (MCS11)	19.25	22.10
				52	44	25/29.4 (MCS11)	17.60	19.81
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	17.89	20.23
				52	44	25/29.4 (MCS11)	18.97	22.41
				52	52	25/29.4 (MCS11)	17.75	19.95
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	18.41	20.50
				52	38	25/29.4 (MCS11)	17.07	18.26
				52	40	25/29.4 (MCS11)	18.36	21.12
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	18.40	21.19
				52	38	25/29.4 (MCS11)	16.97	18.15
				52	40	25/29.4 (MCS11)	18.49	21.53
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	18.57	21.65
				52	38	25/29.4 (MCS11)	17.09	18.12
				52	40	25/29.4 (MCS11)	18.48	21.53
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	18.24	21.32
				52	40	25/29.4 (MCS11)	19.85	22.65
				52	44	25/29.4 (MCS11)	17.66	20.16
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	17.74	19.89
				52	40	25/29.4 (MCS11)	19.69	23.21
				52	44	25/29.4 (MCS11)	17.68	20.37
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	18.40	72.04
				52	40	25/29.4 (MCS11)	20.19	26.04
				52	44	25/29.4 (MCS11)	18.31	72.27
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	17.92	20.62
				52	44	25/29.4 (MCS11)	20.09	23.48
				52	52	25/29.4 (MCS11)	17.99	20.72
5610	122	ax (80MHz)	52	37	25/29.4 (MCS11)	18.11	21.37	
			52	44	25/29.4 (MCS11)	20.03	29.77	
			52	52	25/29.4 (MCS11)	17.50	19.47	
5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	17.86	20.58	
			52	44	25/29.4 (MCS11)	19.60	23.54	
			52	52	25/29.4 (MCS11)	17.86	20.87	
5570	114	ax (160MHz)	52	37	25/29.4 (MCS11)	19.88	24.20	
	114		52	52	25/29.4 (MCS11)	18.14	20.59	
			52	52	25/29.4 (MCS11)	18.11	20.95	

Table 7-10. Conducted BW Measurements Antenna 1 (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	52	37	25/29.4 (MCS11)	18.15
				52	38	25/29.4 (MCS11)	16.96
				52	40	25/29.4 (MCS11)	18.20
	5785	157	ax (20MHz)	52	37	25/29.4 (MCS11)	18.15
				52	38	25/29.4 (MCS11)	16.99
				52	40	25/29.4 (MCS11)	18.19
	5825	165	ax (20MHz)	52	37	25/29.4 (MCS11)	18.14
				52	38	25/29.4 (MCS11)	17.01
				52	40	25/29.4 (MCS11)	18.19
	5755	151	ax (40MHz)	52	37	25/29.4 (MCS11)	17.64
				52	40	25/29.4 (MCS11)	18.86
				52	44	25/29.4 (MCS11)	17.50
	5795	159	ax (40MHz)	52	37	25/29.4 (MCS11)	17.44
				52	40	25/29.4 (MCS11)	18.78
				52	44	25/29.4 (MCS11)	17.51
	5775	155	ax (80MHz)	52	37	25/29.4 (MCS11)	17.81
				52	44	25/29.4 (MCS11)	17.77
				52	52	25/29.4 (MCS11)	17.55

Table 7-11. Conducted BW Measurements Antenna 1 (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

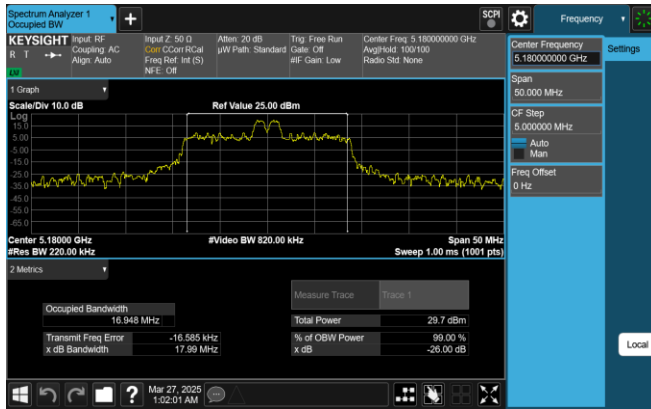
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.46	34.54
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.39	31.07
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.32	29.01
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.39	78.83
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.34	70.95
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	78.37	155.07
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	170.49	370.87
Band 2A	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.15	22.69
	5300	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.21	24.23
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.17	27.32
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.11	51.45
	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.12	52.22
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	78.27	130.67
Band 2C	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.28	26.32
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.63	39.10
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.60	39.85
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.57	80.25
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.55	79.50
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	39.21	95.82
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	79.75	194.10
	5610	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	80.43	194.53
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	79.80	191.13
	5570	114	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	207.02	360.68

Table 7-12. Conducted BW Measurements Antenna 1 (Fully – loaded RU)

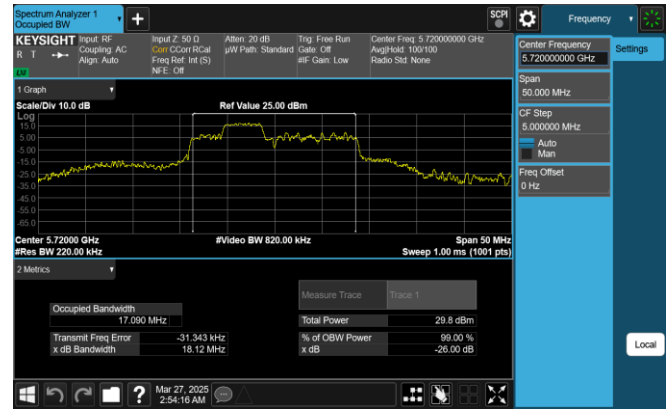
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	242	61	135/143.4 (MCS11)	19.11
	5785	157	ax (20MHz)	242	61	135/143.4 (MCS11)	19.08
	5825	165	ax (20MHz)	242	61	135/143.4 (MCS11)	19.08
	5755	151	ax (40MHz)	484	65	271/286.8 (MCS11)	38.08
	5795	159	ax (40MHz)	484	65	271/286.8 (MCS11)	38.07
	5775	155	ax (80MHz)	996	67	567/600.5 (MCS11)	77.70

Table 7-13. Conducted BW Measurements Antenna 1 (Fully – loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164



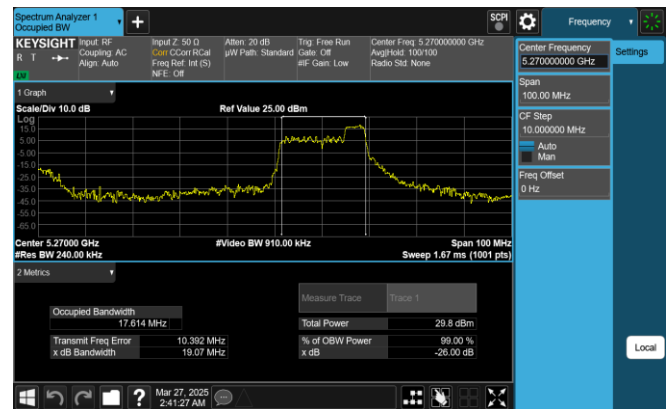
Plot 7-12. 26dB BW & 99% OBW Antenna 1 (20MHz BW 11ax Index 4 – RU26 – Ch.36)



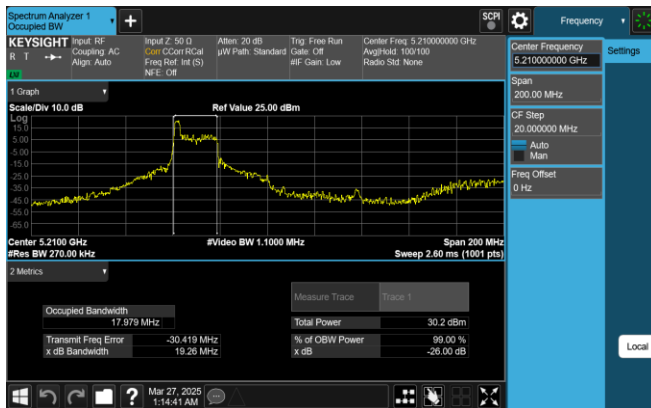
Plot 7-15. 26dB BW & 99% OBW Antenna 1 (20MHz BW 11ax Index 38 – RU52 – Ch.144)



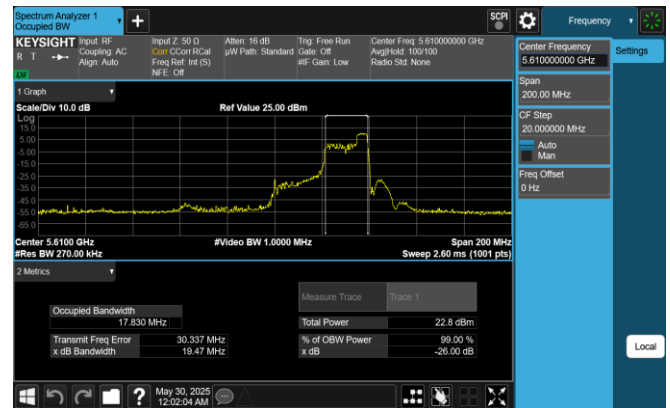
Plot 7-13. 26dB BW & 99% OBW Antenna 1 (40MHz BW 11ax Index 0 – RU26 – Ch.46)



Plot 7-16. 26dB BW & 99% OBW Antenna 1 (40MHz BW 11ax Index 44 – RU52 – Ch.54)

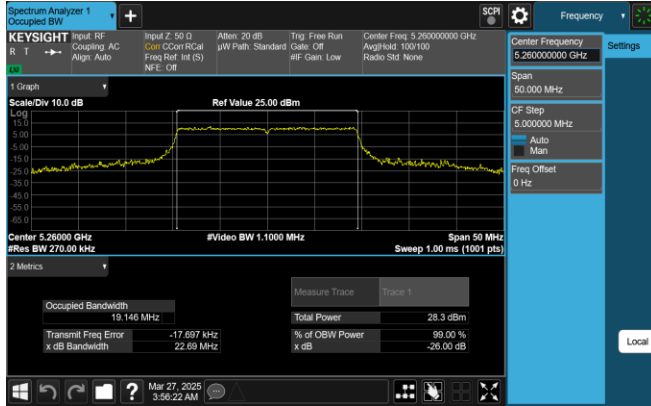


Plot 7-14. 26dB BW & 99% OBW Antenna 1 (80MHz BW 11ax Index 0 – RU26 – Ch.42)

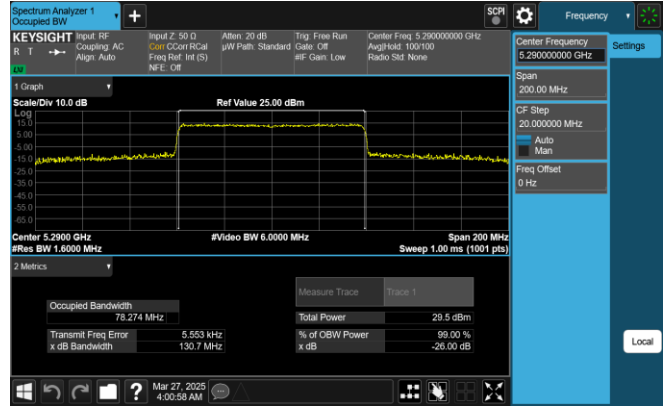


Plot 7-17. 26dB BW & 99% OBW Antenna 1 (80MHz BW 11ax Index 52 – RU52 – Ch.122)

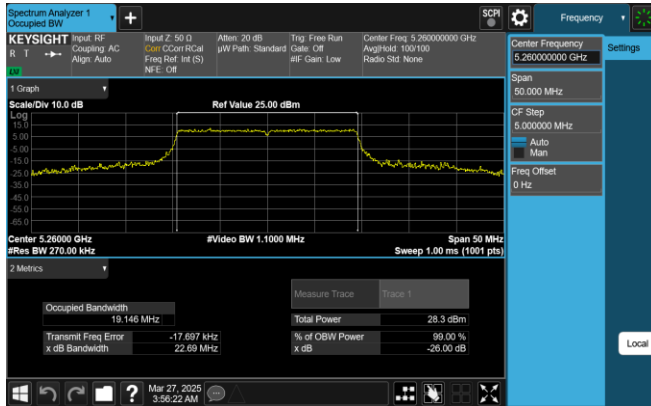
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 29 of 164



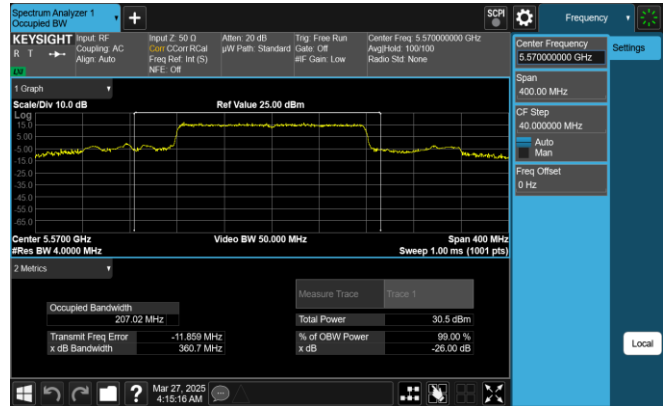
Plot 7-18. 26dB BW & 99% OBW Antenna 1 (160MHz BW 11ax– RU52 – Ch.50)



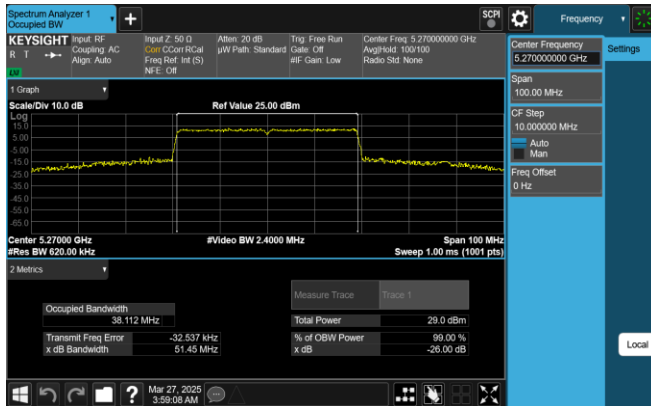
Plot 7-21. 26dB BW & 99% OBW Antenna 1 (80MHz BW 11ax– RU996 – Ch.58)



Plot 7-19. 26dB BW & 99% OBW Antenna 1 (20MHz BW 11ax– RU242 – Ch.52)



Plot 7-22. 26dB BW & 99% OBW Antenna 1 (160MHz BW 11ax– RU996 – Ch.114)



Plot 7-20. 26dB BW & 99% OBW Antenna 1 (40MHz BW 11ax– RU484 – Ch.54)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

7.3 6dB Bandwidth Measurement

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 + 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 6dB bandwidth.

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

Test Procedure Used

ANSI C63.10-2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.5.1
KDB 789033 D02 v02r01 – Section C

Test Settings

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

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

7.3.1 Antenna 0 6dB Measurements

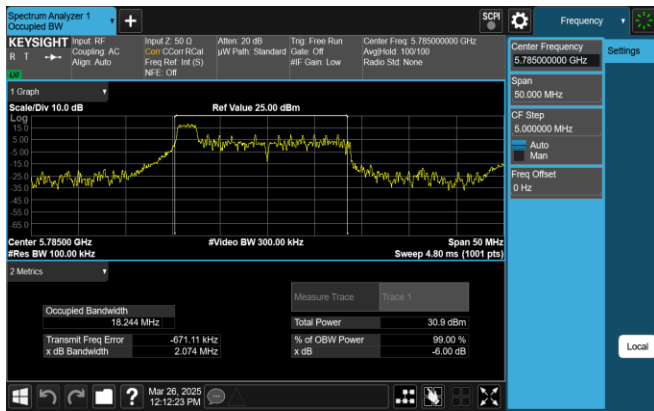
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	2.13	0.50	Pass
				26	4	12.5/14.7 (MCS11)	2.64	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.14	0.50	Pass
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	2.07	0.50	Pass
				26	4	12.5/14.7 (MCS11)	2.66	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.11	0.50	Pass
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	2.12	0.50	Pass
				26	4	12.5/14.7 (MCS11)	2.68	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.14	0.50	Pass
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	2.18	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.18	0.50	Pass
				26	17	12.5/14.7 (MCS11)	2.11	0.50	Pass
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	2.17	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.24	0.50	Pass
				26	17	12.5/14.7 (MCS11)	2.17	0.50	Pass
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	2.23	0.50	Pass
				26	18	12.5/14.7 (MCS11)	2.85	0.50	Pass
				26	36	12.5/14.7 (MCS11)	2.30	0.50	Pass

Table 7-14. Conducted Bandwidth Measurements Antenna 0 (RU26)

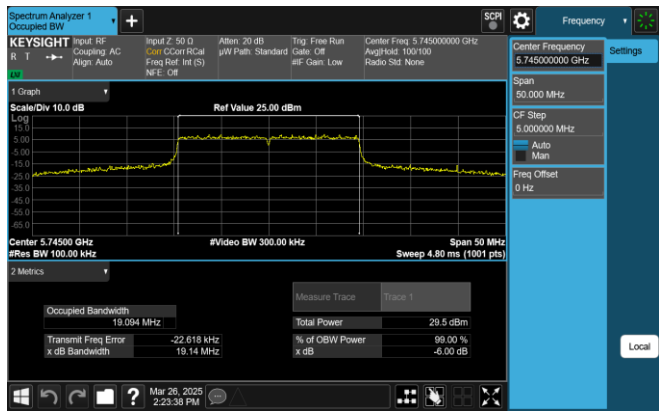
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.14	0.50	Pass
	5785	157	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.16	0.50	Pass
	5825	165	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.17	0.50	Pass
	5755	151	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.26	0.50	Pass
	5795	159	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.25	0.50	Pass
	5775	155	ax (80MHz)	996	67	510.4/600.5 (MCS11)	78.30	0.50	Pass

Table 7-15. Conducted Bandwidth Measurements Antenna 0 (Fully- loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164



Plot 7-23. 6dB BW Antenna 0 (20MHz BW 11ax Index 0 – RU26 – Ch.157)



Plot 7-24. 6dB BW Antenna 0 (20MHz BW 11ax– RU242 – Ch.149)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 33 of 164

7.3.2 Antenna 1 6dB Measurements

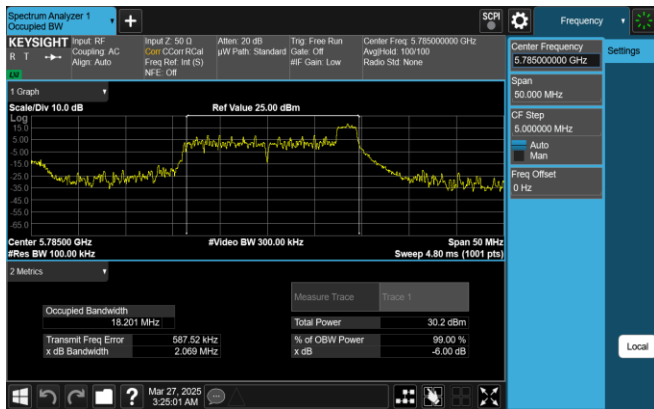
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	2.10	0.50	Pass
				26	4	12.5/14.7 (MCS11)	2.68	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.10	0.50	Pass
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	2.09	0.50	Pass
				26	4	12.5/14.7 (MCS11)	2.66	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.07	0.50	Pass
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	2.10	0.50	Pass
				26	4	12.5/14.7 (MCS11)	2.70	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.12	0.50	Pass
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	2.13	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.25	0.50	Pass
				26	17	12.5/14.7 (MCS11)	2.18	0.50	Pass
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	2.15	0.50	Pass
				26	8	12.5/14.7 (MCS11)	2.17	0.50	Pass
				26	17	12.5/14.7 (MCS11)	2.15	0.50	Pass
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	2.30	0.50	Pass
				26	18	12.5/14.7 (MCS11)	2.92	0.50	Pass
				26	36	12.5/14.7 (MCS11)	2.27	0.50	Pass

Table 7-16. Conducted Bandwidth Measurements Antenna 1 (RU26)

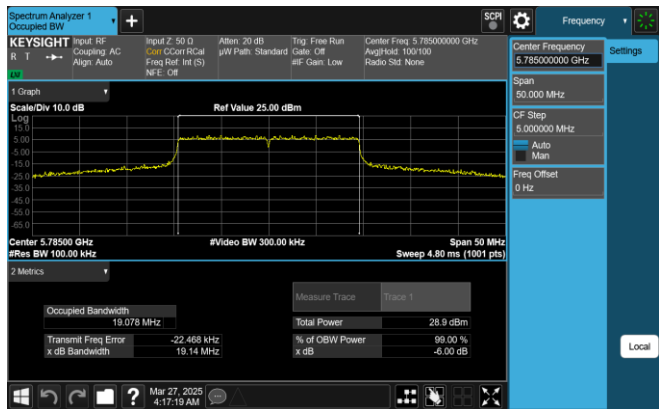
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.19	0.50	Pass
	5785	157	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.14	0.50	Pass
	5825	165	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.15	0.50	Pass
	5755	151	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.27	0.50	Pass
	5795	159	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.26	0.50	Pass
	5775	155	ax (80MHz)	996	67	510.4/600.5 (MCS11)	78.19	0.50	Pass

Table 7-17. Conducted Bandwidth Measurements Antenna 1 (Fully- loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164



Plot 7-25. 6dB BW Antenna 1 (20MHz BW 11ax Index 8 – RU26 – Ch.157)



Plot 7-26. 6dB BW Antenna 1 (20MHz BW 11ax– RU242 – Ch.157)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

7.4 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies. B is the 99% OBW per ISSED RSS-247 and 26dB BW is per FCC 15.407.

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

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

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

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

Test Procedure Used

ANSI C63.10-2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 v– 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 7-3. Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

7.4.1 FCC Antenna 0 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	26	0	12.5/14.7 (MCS11)	9.65	23.98	-14.33
			AVG	26	4	12.5/14.7 (MCS11)	9.61	23.98	-14.37
			AVG	26	8	12.5/14.7 (MCS11)	9.69	23.98	-14.29
	5200	40	AVG	26	0	12.5/14.7 (MCS11)	9.74	23.98	-14.24
			AVG	26	4	12.5/14.7 (MCS11)	9.64	23.98	-14.34
			AVG	26	8	12.5/14.7 (MCS11)	9.74	23.98	-14.24
	5240	48	AVG	26	0	12.5/14.7 (MCS11)	9.61	23.98	-14.37
			AVG	26	4	12.5/14.7 (MCS11)	9.50	23.98	-14.48
			AVG	26	8	12.5/14.7 (MCS11)	9.59	23.98	-14.39
	5745	149	AVG	26	0	12.5/14.7 (MCS11)	9.57	30.00	-20.43
			AVG	26	4	12.5/14.7 (MCS11)	10.00	30.00	-20.00
			AVG	26	8	12.5/14.7 (MCS11)	9.58	30.00	-20.42
	5785	157	AVG	26	0	12.5/14.7 (MCS11)	9.52	30.00	-20.48
			AVG	26	4	12.5/14.7 (MCS11)	9.51	30.00	-20.49
			AVG	26	8	12.5/14.7 (MCS11)	9.60	30.00	-20.41
	5825	165	AVG	26	0	12.5/14.7 (MCS11)	9.55	30.00	-20.45
			AVG	26	4	12.5/14.7 (MCS11)	9.99	30.00	-20.01
			AVG	26	8	12.5/14.7 (MCS11)	9.68	30.00	-20.32

Table 7-18. FCC Antenna 0 20MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	52	37	25/29.4 (MCS11)	10.64	23.98	-13.34
			AVG	52	39	25/29.4 (MCS11)	10.63	23.98	-13.35
			AVG	52	40	25/29.4 (MCS11)	10.70	23.98	-13.28
	5200	40	AVG	52	37	25/29.4 (MCS11)	10.75	23.98	-13.23
			AVG	52	39	25/29.4 (MCS11)	10.70	23.98	-13.28
			AVG	52	40	25/29.4 (MCS11)	10.79	23.98	-13.19
	5240	48	AVG	52	37	25/29.4 (MCS11)	10.56	23.98	-13.42
			AVG	52	39	25/29.4 (MCS11)	10.55	23.98	-13.43
			AVG	52	40	25/29.4 (MCS11)	10.60	23.98	-13.38
	5260	52	AVG	52	37	25/29.4 (MCS11)	10.87	23.56	-12.69
			AVG	52	39	25/29.4 (MCS11)	10.85	23.56	-12.71
			AVG	52	40	25/29.4 (MCS11)	10.90	23.56	-12.66
	5300	60	AVG	52	37	25/29.4 (MCS11)	10.98	23.56	-12.58
			AVG	52	39	25/29.4 (MCS11)	10.88	23.56	-12.67
			AVG	52	40	25/29.4 (MCS11)	10.93	23.56	-12.63
	5320	64	AVG	52	37	25/29.4 (MCS11)	10.98	23.56	-12.58
			AVG	52	39	25/29.4 (MCS11)	10.90	23.56	-12.66
			AVG	52	40	25/29.4 (MCS11)	10.93	23.56	-12.63
	5500	100	AVG	52	37	25/29.4 (MCS11)	10.89	23.54	-12.66
			AVG	52	39	25/29.4 (MCS11)	10.83	23.54	-12.72
			AVG	52	40	25/29.4 (MCS11)	10.84	23.54	-12.70
	5580	116	AVG	52	37	25/29.4 (MCS11)	10.76	23.54	-12.79
			AVG	52	39	25/29.4 (MCS11)	10.65	23.54	-12.89
			AVG	52	40	25/29.4 (MCS11)	10.67	23.54	-12.87
	5720	144	AVG	52	37	25/29.4 (MCS11)	10.73	23.54	-12.81
			AVG	52	39	25/29.4 (MCS11)	10.62	23.54	-12.92
			AVG	52	40	25/29.4 (MCS11)	10.67	23.54	-12.88
	5745	149	AVG	52	37	25/29.4 (MCS11)	10.62	30.00	-19.38
			AVG	52	39	25/29.4 (MCS11)	10.56	30.00	-19.44
			AVG	52	40	25/29.4 (MCS11)	10.59	30.00	-19.41
	5785	157	AVG	52	37	25/29.4 (MCS11)	10.56	30.00	-19.44
			AVG	52	39	25/29.4 (MCS11)	10.54	30.00	-19.46
			AVG	52	40	25/29.4 (MCS11)	10.61	30.00	-19.39
	5825	165	AVG	52	37	25/29.4 (MCS11)	11.00	30.00	-19.01
			AVG	52	39	25/29.4 (MCS11)	10.53	30.00	-19.47
			AVG	52	40	25/29.4 (MCS11)	10.62	30.00	-19.38

Table 7-19. FCC Antenna 0 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	106	53	53.1/62.5 (MCS11)	11.62	23.98	-12.36
			AVG	106	54	53.1/62.5 (MCS11)	11.60	23.98	-12.38
	5200	40	AVG	106	53	53.1/62.5 (MCS11)	11.67	23.98	-12.31
			AVG	106	54	53.1/62.5 (MCS11)	11.66	23.98	-12.32
	5240	48	AVG	106	53	53.1/62.5 (MCS11)	12.00	23.98	-11.98
			AVG	106	54	53.1/62.5 (MCS11)	11.53	23.98	-12.45
	5260	52	AVG	106	53	53.1/62.5 (MCS11)	11.94	23.56	-11.62
			AVG	106	54	53.1/62.5 (MCS11)	11.89	23.56	-11.67
	5300	60	AVG	106	53	53.1/62.5 (MCS11)	11.96	23.56	-11.60
			AVG	106	54	53.1/62.5 (MCS11)	11.95	23.56	-11.61
	5320	64	AVG	106	53	53.1/62.5 (MCS11)	11.99	23.56	-11.57
			AVG	106	54	53.1/62.5 (MCS11)	11.96	23.56	-11.60
	5500	100	AVG	106	53	53.1/62.5 (MCS11)	11.83	23.54	-11.72
			AVG	106	54	53.1/62.5 (MCS11)	11.81	23.54	-11.74
	5580	116	AVG	106	53	53.1/62.5 (MCS11)	11.63	23.54	-11.91
			AVG	106	54	53.1/62.5 (MCS11)	11.58	23.54	-11.96
	5720	144	AVG	106	53	53.1/62.5 (MCS11)	11.68	23.54	-11.87
			AVG	106	54	53.1/62.5 (MCS11)	11.69	23.54	-11.86
	5745	149	AVG	106	53	53.1/62.5 (MCS11)	11.96	30.00	-18.05
			AVG	106	54	53.1/62.5 (MCS11)	11.96	30.00	-18.04
	5785	157	AVG	106	53	53.1/62.5 (MCS11)	11.94	30.00	-18.06
			AVG	106	54	53.1/62.5 (MCS11)	11.96	30.00	-18.04
	5825	165	AVG	106	53	53.1/62.5 (MCS11)	11.56	30.00	-18.44
			AVG	106	54	53.1/62.5 (MCS11)	11.60	30.00	-18.40

Table 7-20. FCC Antenna 0 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	242	61	121.9/143.4 (MCS11)	14.03	23.98	-9.95
	5200	40	AVG	242	61	121.9/143.4 (MCS11)	17.18	23.98	-6.80
	5240	48	AVG	242	61	121.9/143.4 (MCS11)	17.98	23.98	-6.00
	5260	52	AVG	242	61	121.9/143.4 (MCS11)	18.25	23.56	-5.31
	5300	60	AVG	242	61	121.9/143.4 (MCS11)	17.30	23.56	-6.26
	5320	64	AVG	242	61	121.9/143.4 (MCS11)	14.85	23.56	-8.71
	5500	100	AVG	242	61	121.9/143.4 (MCS11)	13.71	23.54	-9.83
	5580	116	AVG	242	61	121.9/143.4 (MCS11)	18.09	23.54	-5.45
	5720	144	AVG	242	61	121.9/143.4 (MCS11)	18.20	23.54	-5.34
	5745	149	AVG	242	61	121.9/143.4 (MCS11)	18.09	30.00	-11.91
	5785	157	AVG	242	61	121.9/143.4 (MCS11)	18.13	30.00	-11.87
	5825	165	AVG	242	61	121.9/143.4 (MCS11)	18.12	30.00	-11.88

Table 7-21. FCC Antenna 0 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	484	65	243.8/286.8 (MCS11)	12.22	23.98	-11.76
	5230	46	AVG	484	65	243.8/286.8 (MCS11)	17.56	23.98	-6.42
	5270	54	AVG	484	65	243.8/286.8 (MCS11)	17.36	23.56	-6.20
	5310	62	AVG	484	65	243.8/286.8 (MCS11)	11.89	23.56	-11.67
	5510	102	AVG	484	65	243.8/286.8 (MCS11)	11.31	23.54	-12.23
	5550	110	AVG	484	65	243.8/286.8 (MCS11)	15.88	23.54	-7.66
	5590	118	AVG	484	65	243.8/286.8 (MCS11)	18.21	23.54	-5.33
	5670	134	AVG	484	65	243.8/286.8 (MCS11)	13.34	23.54	-10.20
	5710	142	AVG	484	65	243.8/286.8 (MCS11)	18.24	23.54	-5.30
	5755	151	AVG	484	65	243.8/286.8 (MCS11)	16.52	30.00	-13.48
	5795	159	AVG	484	65	243.8/286.8 (MCS11)	18.17	30.00	-11.83

Table 7-22. FCC Antenna 0 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	996	67	510.4/600.5 (MCS11)	10.92	23.98	-13.06
	5290	58	AVG	996	67	510.4/600.5 (MCS11)	10.60	23.56	-12.96
	5530	106	AVG	996	67	510.4/600.5 (MCS11)	9.07	23.54	-14.47
	5610	122	AVG	996	67	510.4/600.5 (MCS11)	14.84	23.54	-8.70
	5690	138	AVG	996	67	510.4/600.5 (MCS11)	18.21	23.54	-5.34
	5775	155	AVG	996	67	510.4/600.5 (MCS11)	14.22	30.00	-15.78

Table 7-23. FCC Antenna 0 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	AVG	996x2	68	1020.8/1201 (MCS11)	10.96	23.98	-13.02
	5570	114	AVG	996x2	68	1020.8/1201 (MCS11)	9.99	23.54	-13.55

Table 7-24. FCC Antenna 0 160MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

7.4.2 ISED Antenna 0 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5GHz (20MHz Bandwidth)	5180	36	AVG	26	0	12.5/14.7 (MCS11)	8.95	-	-	1.10	10.05	22.55	-12.50
			AVG	26	4	12.5/14.7 (MCS11)	8.78	-	-	1.10	9.88	22.55	-12.67
			AVG	26	8	12.5/14.7 (MCS11)	8.81	-	-	1.10	9.91	22.55	-12.64
	5200	40	AVG	26	0	12.5/14.7 (MCS11)	8.97	-	-	1.10	10.07	22.55	-12.48
			AVG	26	4	12.5/14.7 (MCS11)	8.87	-	-	1.10	9.97	22.55	-12.58
			AVG	26	8	12.5/14.7 (MCS11)	8.93	-	-	1.10	10.03	22.55	-12.52
	5240	48	AVG	26	0	12.5/14.7 (MCS11)	8.83	-	-	1.10	9.93	22.55	-12.62
			AVG	26	4	12.5/14.7 (MCS11)	8.67	-	-	1.10	9.77	22.55	-12.78
			AVG	26	8	12.5/14.7 (MCS11)	8.74	-	-	1.10	9.84	22.55	-12.71
	5745	149	AVG	26	0	12.5/14.7 (MCS11)	9.57	30.00	-20.43	2.76	12.33	-	-
			AVG	26	4	12.5/14.7 (MCS11)	10.00	30.00	-20.00	2.76	12.76	-	-
			AVG	26	8	12.5/14.7 (MCS11)	9.58	30.00	-20.42	2.76	12.34	-	-
5GHz (20MHz Bandwidth)	5785	157	AVG	26	0	12.5/14.7 (MCS11)	9.52	30.00	-20.48	2.76	12.28	-	-
			AVG	26	4	12.5/14.7 (MCS11)	9.51	30.00	-20.49	2.76	12.27	-	-
			AVG	26	8	12.5/14.7 (MCS11)	9.60	30.00	-20.41	2.76	12.36	-	-
	5825	165	AVG	26	0	12.5/14.7 (MCS11)	9.55	30.00	-20.45	2.76	12.31	-	-
			AVG	26	4	12.5/14.7 (MCS11)	9.99	30.00	-20.01	2.76	12.75	-	-
			AVG	26	8	12.5/14.7 (MCS11)	9.68	30.00	-20.32	2.76	12.44	-	-

Table 7-25. ISED Antenna 0 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5GHz (20MHz Bandwidth)	5260	52	AVG	52	37	25/29.4 (MCS11)	10.87	23.56	-12.69	1.35	12.22	29.56	-17.34
			AVG	52	39	25/29.4 (MCS11)	10.85	23.56	-12.71	1.35	12.20	29.56	-17.36
			AVG	52	40	25/29.4 (MCS11)	10.90	23.56	-12.66	1.35	12.25	29.56	-17.31
	5300	60	AVG	52	37	25/29.4 (MCS11)	10.98	23.56	-12.58	1.35	12.33	29.56	-17.23
			AVG	52	39	25/29.4 (MCS11)	10.88	23.56	-12.67	1.35	12.23	29.56	-17.32
			AVG	52	40	25/29.4 (MCS11)	10.93	23.56	-12.63	1.35	12.28	29.56	-17.28
	5320	64	AVG	52	37	25/29.4 (MCS11)	10.98	23.56	-12.58	1.35	12.33	29.56	-17.23
			AVG	52	39	25/29.4 (MCS11)	10.90	23.56	-12.66	1.35	12.25	29.56	-17.31
			AVG	52	40	25/29.4 (MCS11)	10.93	23.56	-12.63	1.35	12.28	29.56	-17.28
	5500	100	AVG	52	37	25/29.4 (MCS11)	10.89	23.54	-12.65	2.50	13.39	29.54	-16.15
			AVG	52	39	25/29.4 (MCS11)	10.83	23.54	-12.71	2.50	13.33	29.54	-16.21
			AVG	52	40	25/29.4 (MCS11)	10.84	23.54	-12.70	2.50	13.34	29.54	-16.20
5GHz (20MHz Bandwidth)	5580	116	AVG	52	37	25/29.4 (MCS11)	10.76	23.54	-12.78	2.50	13.26	29.54	-16.28
			AVG	52	39	25/29.4 (MCS11)	10.65	23.54	-12.89	2.50	13.15	29.54	-16.39
			AVG	52	40	25/29.4 (MCS11)	10.67	23.54	-12.87	2.50	13.17	29.54	-16.37
	5720	144	AVG	52	37	25/29.4 (MCS11)	10.73	23.54	-12.81	2.50	13.23	29.54	-16.31
			AVG	52	39	25/29.4 (MCS11)	10.62	23.54	-12.92	2.50	13.12	29.54	-16.42
			AVG	52	40	25/29.4 (MCS11)	10.67	23.54	-12.87	2.50	13.17	29.54	-16.37

Table 7-26. ISED Antenna 0 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5GHz (20MHz Bandwidth)	5180	36	AVG	106	53	53.1/62.5 (MCS11)	11.65	-	-	1.10	12.75	22.55	-9.80
			AVG	106	54	53.1/62.5 (MCS11)	11.99	-	-	1.10	13.09	22.55	-9.46
	5200	40	AVG	106	53	53.1/62.5 (MCS11)	11.57	-	-	1.10	12.67	22.55	-9.88
			AVG	106	54	53.1/62.5 (MCS11)	11.50	-	-	1.10	12.60	22.55	-9.95
	5240	48	AVG	106	53	53.1/62.5 (MCS11)	12.00	-	-	1.10	13.10	22.55	-9.45
			AVG	106	54	53.1/62.5 (MCS11)	12.00	-	-	1.10	13.10	22.55	-9.45
	5260	52	AVG	106	53	53.1/62.5 (MCS11)	11.94	23.56	-11.62	1.35	13.29	29.56	-16.27
			AVG	106	54	53.1/62.5 (MCS11)	11.89	23.56	-11.67	1.35	13.24	29.56	-16.32
	5300	60	AVG	106	53	53.1/62.5 (MCS11)	11.96	23.56	-11.60	1.35	13.31	29.56	-16.25
			AVG	106	54	53.1/62.5 (MCS11)	11.95	23.56	-11.61	1.35	13.30	29.56	-16.26
	5320	64	AVG	106	53	53.1/62.5 (MCS11)	11.99	23.56	-11.57	1.35	13.34	29.56	-16.22
			AVG	106	54	53.1/62.5 (MCS11)	11.96	23.56	-11.60	1.35	13.31	29.56	-16.25
5GHz (20MHz Bandwidth)	5500	100	AVG	106	53	53.1/62.5 (MCS11)	11.83	23.54	-11.71	2.50	14.33	29.54	-15.21
			AVG	106	54	53.1/62.5 (MCS11)	11.81	23.54	-11.73	2.50	14.31	29.54	-15.23
	5580	116	AVG	106	53	53.1/62.5 (MCS11)	11.63	23.54	-11.91	2.50	14.13	29.54	-15.41
			AVG	106	54	53.1/62.5 (MCS11)	11.58	23.54	-11.96	2.50	14.08	29.54	-15.46
	5720	144	AVG	106	53	53.1/62.5 (MCS11)	11.68	23.54	-11.86	2.50	14.18	29.54	-15.36
			AVG	106	54	53.1/62.5 (MCS11)	11.69	23.54	-11.85	2.50	14.19	29.54	-15.35
	5745	149	AVG	106	53	53.1/62.5 (MCS11)	11.96	30.00	-18.05	2.76	14.72	-	-
			AVG	106	54	53.1/62.5 (MCS11)	11.96	30.00	-18.04	2.76	14.72	-	-
	5785	157	AVG	106	53	53.1/62.5 (MCS11)	11.94	30.00	-18.06	2.76	14.70	-	-
			AVG	106	54	53.1/62.5 (MCS11)	11.96	30.00	-18.04	2.76	14.72	-	-
	5825	165	AVG	106	53	53.1/62.5 (MCS11)	11.62	30.00	-18.38	2.76	14.38	-	-
			AVG	106	54	53.1/62.5 (MCS11)	11.60	30.00	-18.40	2.76	14.36	-	-

Table 7-27. ISED Antenna 0 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	242	61	121.9/143.4 (MCS11)	14.50	-	-	1.10	15.60	22.25	-6.66
	5200	40	AVG	242	61	121.9/143.4 (MCS11)	17.47	-	-	1.10	18.57	22.25	-3.69
	5240	48	AVG	242	61	121.9/143.4 (MCS11)	17.84	-	-	1.10	18.94	22.25	-3.32
	5260	52	AVG	242	61	121.9/143.4 (MCS11)	18.25	23.56	-5.31	1.35	19.60	29.56	-9.96
	5300	60	AVG	242	61	121.9/143.4 (MCS11)	17.30	23.56	-6.26	1.35	18.65	29.56	-10.91
	5320	64	AVG	242	61	121.9/143.4 (MCS11)	14.85	23.56	-8.71	1.35	16.20	29.56	-13.36
	5500	100	AVG	242	61	121.9/143.4 (MCS11)	13.71	23.54	-9.83	2.50	16.21	29.54	-13.33
	5580	116	AVG	242	61	121.9/143.4 (MCS11)	18.09	23.54	-5.45	2.50	20.59	29.54	-8.95
	5720	144	AVG	242	61	121.9/143.4 (MCS11)	18.20	23.54	-5.34	2.50	20.70	29.54	-8.84
	5745	149	AVG	242	61	121.9/143.4 (MCS11)	18.09	30.00	-11.91	2.76	20.85	-	-
	5785	157	AVG	242	61	121.9/143.4 (MCS11)	18.13	30.00	-11.87	2.76	20.89	-	-
	5825	165	AVG	242	61	121.9/143.4 (MCS11)	18.12	30.00	-11.88	2.76	20.88	-	-

Table 7-28. ISED Antenna 0 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	AVG	484	65	243.8/286.8 (MCS11)	12.46	-	-	1.10	13.56	22.25	-8.69
	5230	46	AVG	484	65	243.8/286.8 (MCS11)	17.95	-	-	1.10	19.05	22.25	-3.20
	5270	54	AVG	484	65	243.8/286.8 (MCS11)	17.36	23.56	-6.20	1.35	18.71	29.56	-10.85
	5310	62	AVG	484	65	243.8/286.8 (MCS11)	11.89	23.56	-11.67	1.35	13.24	29.56	-16.32
	5510	102	AVG	484	65	243.8/286.8 (MCS11)	11.31	23.54	-12.23	2.50	13.81	29.54	-15.73
	5550	110	AVG	484	65	243.8/286.8 (MCS11)	15.88	23.54	-7.66	2.50	18.38	29.54	-11.16
	5670	134	AVG	484	65	243.8/286.8 (MCS11)	13.34	23.54	-10.20	2.50	15.84	29.54	-13.70
	5710	142	AVG	484	65	243.8/286.8 (MCS11)	18.24	23.54	-5.30	2.50	20.74	29.54	-8.80
	5755	151	AVG	484	65	243.8/286.8 (MCS11)	16.52	30.00	-13.48	2.76	19.28	-	-
	5795	159	AVG	484	65	243.8/286.8 (MCS11)	18.17	30.00	-11.83	2.76	20.93	-	-

Table 7-29. ISED Antenna 0 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	AVG	996	67	510.4/600.5 (MCS11)	10.65	-	-	1.10	11.75	22.25	-10.50
	5290	58	AVG	996	67	510.4/600.5 (MCS11)	10.60	23.56	-12.96	1.35	11.95	29.56	-17.61
	5530	106	AVG	996	67	510.4/600.5 (MCS11)	9.07	23.54	-14.47	2.50	11.57	29.54	-17.97
	5690	138	AVG	996	67	510.4/600.5 (MCS11)	18.21	23.54	-5.33	2.50	20.71	29.54	-8.83
	5775	155	AVG	996	67	510.4/600.5 (MCS11)	14.22	30.00	-15.78	2.76	16.98	-	-

Table 7-30. ISED Antenna 0 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	AVG	996x2	68	1020.8/1201 (MCS11)	10.96	23.56	-12.60	1.35	12.31	22.55	-10.24
	5570	114	AVG	996x2	68	1020.8/1201 (MCS11)	9.80	23.54	-13.74	2.50	12.30	29.54	-17.24

Table 7-31. ISED Antenna 0 160MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

7.4.3 FCC Antenna 1 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	26	0	12.5/14.7 (MCS11)	9.77	23.98	-14.21
			AVG	26	4	12.5/14.7 (MCS11)	9.68	23.98	-14.30
			AVG	26	8	12.5/14.7 (MCS11)	9.77	23.98	-14.21
	5200	40	AVG	26	0	12.5/14.7 (MCS11)	9.89	23.98	-14.09
			AVG	26	4	12.5/14.7 (MCS11)	9.73	23.98	-14.25
			AVG	26	8	12.5/14.7 (MCS11)	9.85	23.98	-14.13
	5240	48	AVG	26	0	12.5/14.7 (MCS11)	9.55	23.98	-14.43
			AVG	26	4	12.5/14.7 (MCS11)	9.87	23.98	-14.11
			AVG	26	8	12.5/14.7 (MCS11)	10.00	23.98	-13.98
	5745	149	AVG	26	0	12.5/14.7 (MCS11)	9.88	30.00	-20.12
			AVG	26	4	12.5/14.7 (MCS11)	9.92	30.00	-20.09
			AVG	26	8	12.5/14.7 (MCS11)	9.62	30.00	-20.38
	5785	157	AVG	26	0	12.5/14.7 (MCS11)	10.00	30.00	-20.01
			AVG	26	4	12.5/14.7 (MCS11)	9.97	30.00	-20.03
			AVG	26	8	12.5/14.7 (MCS11)	9.66	30.00	-20.34
	5825	165	AVG	26	0	12.5/14.7 (MCS11)	9.65	30.00	-20.35
			AVG	26	4	12.5/14.7 (MCS11)	9.56	30.00	-20.44
			AVG	26	8	12.5/14.7 (MCS11)	9.64	30.00	-20.36

Table 7-32. FCC Antenna 1 20MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]
	5180	36	AVG	52	37	25/29.4 (MCS11)	10.72	23.98	-13.26	0.90
			AVG	52	39	25/29.4 (MCS11)	10.69	23.98	-13.29	0.90
			AVG	52	40	25/29.4 (MCS11)	10.71	23.98	-13.27	0.90
	5200	40	AVG	52	37	25/29.4 (MCS11)	10.82	23.98	-13.16	0.90
			AVG	52	39	25/29.4 (MCS11)	10.81	23.98	-13.17	0.90
			AVG	52	40	25/29.4 (MCS11)	10.81	23.98	-13.17	0.90
	5240	48	AVG	52	37	25/29.4 (MCS11)	10.98	23.98	-13.00	0.90
			AVG	52	39	25/29.4 (MCS11)	10.96	23.98	-13.02	0.90
			AVG	52	40	25/29.4 (MCS11)	11.00	23.98	-12.98	0.90
	5260	52	AVG	52	37	25/29.4 (MCS11)	10.89	23.56	-12.67	1.27
			AVG	52	39	25/29.4 (MCS11)	11.00	23.56	-12.56	1.27
			AVG	52	40	25/29.4 (MCS11)	10.58	23.56	-12.98	1.27
	5300	60	AVG	52	37	25/29.4 (MCS11)	10.55	23.56	-13.01	1.27
			AVG	52	39	25/29.4 (MCS11)	10.61	23.56	-12.95	1.27
			AVG	52	40	25/29.4 (MCS11)	10.65	23.56	-12.91	1.27
	5320	64	AVG	52	37	25/29.4 (MCS11)	10.63	23.56	-12.93	1.27
			AVG	52	39	25/29.4 (MCS11)	10.66	23.56	-12.90	1.27
			AVG	52	40	25/29.4 (MCS11)	10.69	23.56	-12.87	1.27
	5500	100	AVG	52	37	25/29.4 (MCS11)	10.72	23.54	-12.83	2.01
			AVG	52	39	25/29.4 (MCS11)	10.65	23.54	-12.89	2.01
			AVG	52	40	25/29.4 (MCS11)	10.63	23.54	-12.92	2.01
	5580	116	AVG	52	37	25/29.4 (MCS11)	10.97	23.54	-12.57	2.01
			AVG	52	39	25/29.4 (MCS11)	10.92	23.54	-12.62	2.01
			AVG	52	40	25/29.4 (MCS11)	10.99	23.54	-12.55	2.01
	5720	144	AVG	52	37	25/29.4 (MCS11)	10.67	23.54	-12.87	2.01
			AVG	52	39	25/29.4 (MCS11)	10.67	23.54	-12.87	2.01
			AVG	52	40	25/29.4 (MCS11)	10.74	23.54	-12.81	2.01
	5745	149	AVG	52	37	25/29.4 (MCS11)	10.87	30.00	-19.14	3.03
			AVG	52	39	25/29.4 (MCS11)	10.56	30.00	-19.44	3.03
			AVG	52	40	25/29.4 (MCS11)	10.64	30.00	-19.36	3.03
	5785	157	AVG	52	37	25/29.4 (MCS11)	10.96	30.00	-19.04	3.03
			AVG	52	39	25/29.4 (MCS11)	10.56	30.00	-19.44	3.03
			AVG	52	40	25/29.4 (MCS11)	10.68	30.00	-19.32	3.03
	5825	165	AVG	52	37	25/29.4 (MCS11)	10.65	30.00	-19.35	3.03
			AVG	52	39	25/29.4 (MCS11)	10.64	30.00	-19.36	3.03
			AVG	52	40	25/29.4 (MCS11)	10.66	30.00	-19.34	3.03

Table 7-33. FCC Antenna 1 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 42 of 164

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	106	53	53.1/62.5 (MCS11)	11.73	23.98	-12.25
			AVG	106	54	53.1/62.5 (MCS11)	11.71	23.98	-12.27
	5200	40	AVG	106	53	53.1/62.5 (MCS11)	11.80	23.98	-12.18
			AVG	106	54	53.1/62.5 (MCS11)	11.78	23.98	-12.20
	5240	48	AVG	106	53	53.1/62.5 (MCS11)	11.99	23.98	-11.99
			AVG	106	54	53.1/62.5 (MCS11)	11.91	23.98	-12.07
	5260	52	AVG	106	53	53.1/62.5 (MCS11)	11.89	23.56	-11.67
			AVG	106	54	53.1/62.5 (MCS11)	11.52	23.56	-12.04
	5300	60	AVG	106	53	53.1/62.5 (MCS11)	11.99	23.56	-11.57
			AVG	106	54	53.1/62.5 (MCS11)	11.62	23.56	-11.94
	5320	64	AVG	106	53	53.1/62.5 (MCS11)	11.58	23.56	-11.98
			AVG	106	54	53.1/62.5 (MCS11)	11.61	23.56	-11.95
	5500	100	AVG	106	53	53.1/62.5 (MCS11)	11.63	23.54	-11.91
			AVG	106	54	53.1/62.5 (MCS11)	11.60	23.54	-11.94
	5580	116	AVG	106	53	53.1/62.5 (MCS11)	11.93	23.54	-11.62
			AVG	106	54	53.1/62.5 (MCS11)	11.95	23.54	-11.59
	5720	144	AVG	106	53	53.1/62.5 (MCS11)	11.65	23.54	-11.90
			AVG	106	54	53.1/62.5 (MCS11)	11.68	23.54	-11.86
	5745	149	AVG	106	53	53.1/62.5 (MCS11)	11.82	30.00	-18.18
			AVG	106	54	53.1/62.5 (MCS11)	11.97	30.00	-18.03
	5785	157	AVG	106	53	53.1/62.5 (MCS11)	11.89	30.00	-18.11
			AVG	106	54	53.1/62.5 (MCS11)	11.57	30.00	-18.44
	5825	165	AVG	106	53	53.1/62.5 (MCS11)	11.55	30.00	-18.45
			AVG	106	54	53.1/62.5 (MCS11)	11.54	30.00	-18.47

Table 7-34. FCC Antenna 1 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	242	61	121.9/143.4 (MCS11)	14.18	23.98	-9.80
	5200	40	AVG	242	61	121.9/143.4 (MCS11)	17.20	23.98	-6.78
	5240	48	AVG	242	61	121.9/143.4 (MCS11)	17.78	23.98	-6.20
	5260	52	AVG	242	61	121.9/143.4 (MCS11)	18.33	23.56	-5.23
	5300	60	AVG	242	61	121.9/143.4 (MCS11)	17.00	23.56	-6.56
	5320	64	AVG	242	61	121.9/143.4 (MCS11)	14.52	23.56	-9.04
	5500	100	AVG	242	61	121.9/143.4 (MCS11)	13.56	23.54	-9.98
	5580	116	AVG	242	61	121.9/143.4 (MCS11)	18.35	23.54	-5.19
	5720	144	AVG	242	61	121.9/143.4 (MCS11)	18.26	23.54	-5.28
	5745	149	AVG	242	61	121.9/143.4 (MCS11)	18.03	30.00	-11.97
	5785	157	AVG	242	61	121.9/143.4 (MCS11)	18.00	30.00	-12.00
	5825	165	AVG	242	61	121.9/143.4 (MCS11)	18.08	30.00	-11.92
			AVG	242	61	121.9/143.4 (MCS11)	18.08	30.00	-11.92

Table 7-35. FCC Antenna 1 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	484	65	243.8/286.8 (MCS11)	12.24	23.98	-11.74
	5230	46	AVG	484	65	243.8/286.8 (MCS11)	17.89	23.98	-6.09
	5270	54	AVG	484	65	243.8/286.8 (MCS11)	17.47	23.56	-6.09
	5310	62	AVG	484	65	243.8/286.8 (MCS11)	11.53	23.56	-12.03
	5510	102	AVG	484	65	243.8/286.8 (MCS11)	11.07	23.54	-12.47
	5550	110	AVG	484	65	243.8/286.8 (MCS11)	15.81	23.54	-7.73
	5590	118	AVG	484	65	243.8/286.8 (MCS11)	18.00	23.54	-5.54
	5670	134	AVG	484	65	243.8/286.8 (MCS11)	13.09	23.54	-10.45
	5710	142	AVG	484	65	243.8/286.8 (MCS11)	18.40	23.54	-5.14
	5755	151	AVG	484	65	243.8/286.8 (MCS11)	16.51	30.00	-13.49
	5795	159	AVG	484	65	243.8/286.8 (MCS11)	18.30	30.00	-11.70

Table 7-36. FCC Antenna 1 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	996	67	510.4/600.5 (MCS11)	10.62	23.98	-13.36
	5290	58	AVG	996	67	510.4/600.5 (MCS11)	10.78	23.56	-12.78
	5530	106	AVG	996	67	510.4/600.5 (MCS11)	9.37	23.54	-14.18
	5610	122	AVG	996	67	510.4/600.5 (MCS11)	14.69	23.54	-8.85
	5690	138	AVG	996	67	510.4/600.5 (MCS11)	18.13	23.54	-5.41
	5775	155	AVG	996	67	510.4/600.5 (MCS11)	14.20	30.00	-15.80

Table 7-37. FCC Antenna 1 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	AVG	996x2	68	1020.8/1201 (MCS11)	10.64	23.98	-13.34
	5570	114	AVG	996x2	68	1020.8/1201 (MCS11)	9.83	23.54	-13.71

Table 7-38. FCC Antenna 1 160MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 44 of 164

7.4.4 ISED Antenna 1 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	26	0	12.5/14.7 (MCS11)	8.76	-	-	0.90	9.66	22.55	-12.89
			AVG	26	4	12.5/14.7 (MCS11)	8.63	-	-	0.90	9.53	22.55	-13.02
			AVG	26	8	12.5/14.7 (MCS11)	8.80	-	-	0.90	9.70	22.55	-12.85
	5200	40	AVG	26	0	12.5/14.7 (MCS11)	8.92	-	-	0.90	9.82	22.55	-12.73
			AVG	26	4	12.5/14.7 (MCS11)	8.97	-	-	0.90	9.87	22.55	-12.68
			AVG	26	8	12.5/14.7 (MCS11)	8.88	-	-	0.90	9.78	22.55	-12.77
	5240	48	AVG	26	0	12.5/14.7 (MCS11)	8.97	-	-	0.90	9.87	22.55	-12.68
			AVG	26	4	12.5/14.7 (MCS11)	8.83	-	-	0.90	9.73	22.55	-12.82
			AVG	26	8	12.5/14.7 (MCS11)	8.89	-	-	0.90	9.79	22.55	-12.76
	5745	149	AVG	26	0	12.5/14.7 (MCS11)	9.88	30.00	-20.12	3.03	12.91	-	-
			AVG	26	4	12.5/14.7 (MCS11)	9.92	30.00	-20.09	3.03	12.95	-	-
			AVG	26	8	12.5/14.7 (MCS11)	9.62	30.00	-20.38	3.03	12.65	-	-
	5785	157	AVG	26	0	12.5/14.7 (MCS11)	10.00	30.00	-20.01	3.03	13.03	-	-
			AVG	26	4	12.5/14.7 (MCS11)	9.97	30.00	-20.03	3.03	13.00	-	-
			AVG	26	8	12.5/14.7 (MCS11)	9.66	30.00	-20.34	3.03	12.69	-	-
	5825	165	AVG	26	0	12.5/14.7 (MCS11)	9.65	30.00	-20.35	3.03	12.68	-	-
			AVG	26	4	12.5/14.7 (MCS11)	9.56	30.00	-20.44	3.03	12.59	-	-
			AVG	26	8	12.5/14.7 (MCS11)	9.64	30.00	-20.36	3.03	12.67	-	-

Table 7-39. ISED Antenna 1 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5260	52	AVG	52	37	25/29.4 (MCS11)	10.89	23.56	-12.67	1.27	12.16	29.56	-17.40
			AVG	52	39	25/29.4 (MCS11)	11.00	23.56	-12.56	1.27	12.27	29.56	-17.29
			AVG	52	40	25/29.4 (MCS11)	10.58	23.56	-12.98	1.27	11.85	29.56	-17.71
	5300	60	AVG	52	37	25/29.4 (MCS11)	10.55	23.56	-13.01	1.27	11.82	29.56	-17.74
			AVG	52	39	25/29.4 (MCS11)	10.61	23.56	-12.95	1.27	11.88	29.56	-17.68
			AVG	52	40	25/29.4 (MCS11)	10.65	23.56	-12.91	1.27	11.92	29.56	-17.64
	5320	64	AVG	52	37	25/29.4 (MCS11)	10.63	23.56	-12.93	1.27	11.90	29.56	-17.66
			AVG	52	39	25/29.4 (MCS11)	10.66	23.56	-12.90	1.27	11.93	29.56	-17.63
			AVG	52	40	25/29.4 (MCS11)	10.69	23.56	-12.87	1.27	11.96	29.56	-17.60
	5500	100	AVG	52	37	25/29.4 (MCS11)	10.72	23.54	-12.83	2.01	12.73	29.54	-16.82
			AVG	52	39	25/29.4 (MCS11)	10.65	23.54	-12.89	2.01	12.66	29.54	-16.88
			AVG	52	40	25/29.4 (MCS11)	10.63	23.54	-12.92	2.01	12.64	29.54	-16.91
	5580	116	AVG	52	37	25/29.4 (MCS11)	10.97	23.54	-12.57	2.01	12.98	29.54	-16.56
			AVG	52	39	25/29.4 (MCS11)	10.92	23.54	-12.62	2.01	12.93	29.54	-16.61
			AVG	52	40	25/29.4 (MCS11)	10.99	23.54	-12.55	2.01	13.00	29.54	-16.54
	5720	144	AVG	52	37	25/29.4 (MCS11)	10.67	23.54	-12.87	2.01	12.68	29.54	-16.86
			AVG	52	39	25/29.4 (MCS11)	10.67	23.54	-12.87	2.01	12.68	29.54	-16.86
			AVG	52	40	25/29.4 (MCS11)	10.74	23.54	-12.81	2.01	12.75	29.54	-16.80

Table 7-40. ISED Antenna 1 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	106	53	53.1/62.5 (MCS11)	11.71	-	-	0.90	12.61	22.25	-9.64
			AVG	106	54	53.1/62.5 (MCS11)	11.82	-	-	0.90	12.72	22.25	-9.53
	5200	40	AVG	106	53	53.1/62.5 (MCS11)	11.87	-	-	0.90	12.77	22.25	-9.49
			AVG	106	54	53.1/62.5 (MCS11)	11.81	-	-	0.90	12.71	22.25	-9.55
	5240	48	AVG	106	53	53.1/62.5 (MCS11)	11.99	-	-	0.90	12.89	22.25	-9.36
			AVG	106	54	53.1/62.5 (MCS11)	11.86	-	-	0.90	12.76	22.25	-9.49
	5260	52	AVG	106	53	53.1/62.5 (MCS11)	11.89	23.56	-11.67	1.27	13.16	29.56	-16.40
			AVG	106	54	53.1/62.5 (MCS11)	11.52	23.56	-12.04	1.27	12.79	29.56	-16.77
	5300	60	AVG	106	53	53.1/62.5 (MCS11)	11.99	23.56	-11.57	1.27	13.26	29.56	-16.30
			AVG	106	54	53.1/62.5 (MCS11)	11.62	23.56	-11.94	1.27	12.89	29.56	-16.67
	5320	64	AVG	106	53	53.1/62.5 (MCS11)	11.58	23.56	-11.98	1.27	12.85	29.56	-16.71
			AVG	106	54	53.1/62.5 (MCS11)	11.61	23.56	-11.95	1.27	12.88	29.56	-16.68
	5500	100	AVG	106	53	53.1/62.5 (MCS11)	11.63	23.54	-11.91	2.01	13.64	29.54	-15.90
			AVG	106	54	53.1/62.5 (MCS11)	11.60	23.54	-11.94	2.01	13.61	29.54	-15.93
	5580	116	AVG	106	53	53.1/62.5 (MCS11)	11.93	23.54	-11.61	2.01	13.94	29.54	-15.60
			AVG	106	54	53.1/62.5 (MCS11)	11.95	23.54	-11.59	2.01	13.96	29.54	-15.58
	5720	144	AVG	106	53	53.1/62.5 (MCS11)	11.65	23.54	-11.89	2.01	13.66	29.54	-15.88
			AVG	106	54	53.1/62.5 (MCS11)	11.68	23.54	-11.86	2.01	13.69	29.54	-15.85
	5745	149	AVG	106	53	53.1/62.5 (MCS11)	11.82	30.00	-18.18	3.03	14.85	-	-
			AVG	106	54	53.1/62.5 (MCS11)	11.97	30.00	-18.03	3.03	15.00	-	-
	5785	157	AVG	106	53	53.1/62.5 (MCS11)	11.89	30.00	-18.11	3.03	14.92	-	-
			AVG	106	54	53.1/62.5 (MCS11)	11.57	30.00	-18.44	3.03	14.60	-	-
	5825	165	AVG	106	53	53.1/62.5 (MCS11)	11.55	30.00	-18.45	3.03	14.58	-	-
			AVG	106	54	53.1/62.5 (MCS11)	11.54	30.00	-18.47	3.03	14.57	-	-

Table 7-41. ISED Antenna 1 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 45 of 164

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	242	61	121.9/143.4 (MCS11)	14.18	-	-	0.90	15.08	22.89	-7.82
	5200	40	AVG	242	61	121.9/143.4 (MCS11)	17.20	-	-	0.90	18.10	22.88	-4.78
	5240	48	AVG	242	61	121.9/143.4 (MCS11)	17.89	-	-	0.90	18.79	22.86	-4.07
	5260	52	AVG	242	61	121.9/143.4 (MCS11)	18.33	23.56	-5.23	1.27	19.60	29.56	-9.96
	5300	60	AVG	242	61	121.9/143.4 (MCS11)	17.00	23.56	-6.56	1.27	18.27	29.56	-11.29
	5320	64	AVG	242	61	121.9/143.4 (MCS11)	14.52	23.56	-9.04	1.27	15.79	29.56	-13.77
	5500	100	AVG	242	61	121.9/143.4 (MCS11)	13.56	23.54	-9.98	2.01	15.57	29.54	-13.97
	5580	116	AVG	242	61	121.9/143.4 (MCS11)	18.35	23.54	-5.19	2.01	20.36	29.54	-9.18
	5720	144	AVG	242	61	121.9/143.4 (MCS11)	18.26	23.54	-5.28	2.01	20.27	29.54	-9.27
	5745	149	AVG	242	61	121.9/143.4 (MCS11)	18.03	30.00	-11.97	3.03	21.06	-	-
	5785	157	AVG	242	61	121.9/143.4 (MCS11)	18.00	30.00	-12.00	3.03	21.03	-	-
	5825	165	AVG	242	61	121.9/143.4 (MCS11)	18.08	30.00	-11.92	3.03	21.11	-	-

Table 7-42. ISED Antenna 1 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	AVG	484	65	243.8/286.8 (MCS11)	12.19	-	-	0.90	13.09	22.25	-9.16
	5230	46	AVG	484	65	243.8/286.8 (MCS11)	17.81	-	-	0.90	18.71	22.25	-3.54
	5270	54	AVG	484	65	243.8/286.8 (MCS11)	17.47	23.56	-6.09	1.27	18.74	29.56	-10.82
	5310	62	AVG	484	65	243.8/286.8 (MCS11)	11.53	23.56	-12.03	1.27	12.80	29.56	-16.76
	5510	102	AVG	484	65	243.8/286.8 (MCS11)	11.07	23.54	-12.47	2.01	13.08	29.54	-16.46
	5550	110	AVG	484	65	243.8/286.8 (MCS11)	15.81	23.54	-7.73	2.01	17.82	29.54	-11.72
	5670	134	AVG	484	65	243.8/286.8 (MCS11)	13.09	23.54	-10.45	2.01	15.10	29.54	-14.44
	5710	142	AVG	484	65	243.8/286.8 (MCS11)	18.40	23.54	-5.14	2.01	20.41	29.54	-9.13
	5755	151	AVG	484	65	243.8/286.8 (MCS11)	16.51	30.00	-13.49	3.03	19.54	-	-
	5795	159	AVG	484	65	243.8/286.8 (MCS11)	18.30	30.00	-11.70	3.03	21.33	-	-

Table 7-43. ISED Antenna 1 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	AVG	996	67	510.4/600.5 (MCS11)	10.52	-	-	0.90	11.42	22.25	-10.83
	5290	58	AVG	996	67	510.4/600.5 (MCS11)	10.78	23.56	-12.78	1.27	12.05	29.56	-17.51
	5530	106	AVG	996	67	510.4/600.5 (MCS11)	9.37	23.54	-14.17	2.01	11.38	29.54	-18.16
	5690	138	AVG	996	67	510.4/600.5 (MCS11)	18.13	23.54	-5.41	2.01	20.14	29.54	-9.40
	5775	155	AVG	996	67	510.4/600.5 (MCS11)	14.20	30.00	-15.80	3.03	17.23	-	-

Table 7-44. ISED Antenna 1 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	AVG	996x2	68	1020.8/1201 (MCS11)	10.64	23.56	-12.92	1.27	11.91	22.55	-10.64
	5570	114	AVG	996x2	68	1020.8/1201 (MCS11)	9.68	23.54	-13.86	2.01	11.69	29.54	-17.85

Table 7-45. ISED Antenna 1 160MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 46 of 164

7.4.5 FCC CDD Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Antenna 0	Antenna 1	Summed		
	5180	36	CDD	AVG	26	0	25/29.4 (MCS11)	8.19	8.25	11.23	23.98	-12.75
			CDD	AVG	26	4	25/29.4 (MCS11)	8.13	8.22	11.19	23.98	-12.79
			CDD	AVG	26	8	25/29.4 (MCS11)	8.22	8.28	11.26	23.98	-12.72
	5200	40	CDD	AVG	26	0	25/29.4 (MCS11)	8.31	8.43	11.38	23.98	-12.60
			CDD	AVG	26	4	25/29.4 (MCS11)	8.30	8.25	11.29	23.98	-12.69
			CDD	AVG	26	8	25/29.4 (MCS11)	8.29	8.34	11.33	23.98	-12.65
	5240	48	CDD	AVG	26	0	25/29.4 (MCS11)	8.12	8.46	11.31	23.98	-12.67
			CDD	AVG	26	4	25/29.4 (MCS11)	8.11	8.48	11.30	23.98	-12.68
			CDD	AVG	26	8	25/29.4 (MCS11)	8.14	8.48	11.32	23.98	-12.66
	5745	149	CDD	AVG	26	0	25/29.4 (MCS11)	8.97	8.81	11.90	30.00	-18.10
			CDD	AVG	26	4	25/29.4 (MCS11)	8.85	8.89	11.88	30.00	-18.12
			CDD	AVG	26	8	25/29.4 (MCS11)	8.98	8.98	11.99	30.00	-18.01
	5785	157	CDD	AVG	26	0	25/29.4 (MCS11)	8.94	8.88	11.92	30.00	-18.08
			CDD	AVG	26	4	25/29.4 (MCS11)	8.91	8.88	11.91	30.00	-18.09
			CDD	AVG	26	8	25/29.4 (MCS11)	8.97	8.93	11.96	30.00	-18.04
	5825	165	CDD	AVG	26	0	25/29.4 (MCS11)	8.99	8.45	11.74	30.00	-18.26
			CDD	AVG	26	4	25/29.4 (MCS11)	8.47	8.91	11.71	30.00	-18.29
			CDD	AVG	26	8	25/29.4 (MCS11)	8.60	8.48	11.55	30.00	-18.45

Table 7-46. FCC CDD 20MHz BW (UNII) Maximum Conducted Output Power (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Antenna 0	Antenna 1	Summed		
5180	36	CDD	AVG	52	37	50/58.8 (MCS11)	9.65	9.87	12.77	23.98	-11.21	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.68	9.76	12.73	23.98	-11.25	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.71	9.84	12.78	23.98	-11.20	
5200	40	CDD	AVG	52	37	50/58.8 (MCS11)	9.74	9.90	12.83	23.98	-11.15	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.70	9.83	12.77	23.98	-11.21	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.73	9.87	12.81	23.98	-11.17	
5240	48	CDD	AVG	52	37	50/58.8 (MCS11)	9.61	9.98	12.81	23.98	-11.17	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.57	9.96	12.78	23.98	-11.20	
		CDD	AVG	52	40	50/58.8 (MCS11)	8.86	9.52	12.21	23.98	-11.77	
5260	52	CDD	AVG	52	37	50/58.8 (MCS11)	9.97	9.94	12.97	23.56	-10.59	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.86	9.55	12.72	23.56	-10.84	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.92	9.64	12.79	23.56	-10.77	
5300	60	CDD	AVG	52	37	50/58.8 (MCS11)	10.00	9.57	12.80	23.56	-10.76	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.98	9.64	12.82	23.56	-10.74	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.91	9.71	12.82	23.56	-10.74	
5320	64	CDD	AVG	52	37	50/58.8 (MCS11)	9.54	9.67	12.62	23.56	-10.94	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.95	9.68	12.83	23.56	-10.73	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.95	9.76	12.87	23.56	-10.69	
5500	100	CDD	AVG	52	37	50/58.8 (MCS11)	9.95	9.78	12.88	23.54	-10.66	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.90	9.64	12.78	23.54	-10.76	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.94	9.71	12.84	23.54	-10.70	
5580	116	CDD	AVG	52	37	50/58.8 (MCS11)	9.67	9.99	12.84	23.54	-10.70	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.59	9.86	12.74	23.54	-10.80	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.61	9.99	12.81	23.54	-10.73	
5720	144	CDD	AVG	52	37	50/58.8 (MCS11)	9.66	9.60	12.64	23.54	-10.90	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.57	9.53	12.56	23.54	-10.98	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.59	9.64	12.62	23.54	-10.92	
5745	149	CDD	AVG	52	37	50/58.8 (MCS11)	9.96	9.76	12.87	30.00	-17.13	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.95	9.85	12.91	30.00	-17.09	
		CDD	AVG	52	40	50/58.8 (MCS11)	10.00	9.95	12.99	30.00	-17.01	
5785	157	CDD	AVG	52	37	50/58.8 (MCS11)	9.93	9.86	12.90	30.00	-17.10	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.94	9.91	12.94	30.00	-17.06	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.44	9.58	12.52	30.00	-17.48	
5825	165	CDD	AVG	52	37	50/58.8 (MCS11)	9.43	9.53	12.49	30.00	-17.51	
		CDD	AVG	52	39	50/58.8 (MCS11)	9.55	9.97	12.78	30.00	-17.22	
		CDD	AVG	52	40	50/58.8 (MCS11)	9.62	9.98	12.82	30.00	-17.18	

Table 7-47. FCC CDD 20MHz BW (UNII) Maximum Conducted Output Power (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 47 of 164

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Antenna 0	Antenna 1	Summed		
	5180	36	CDD	AVG	106	53	106.3/125 (MCS11)	10.60	10.75	13.69	23.98	-10.29
			CDD	AVG	106	54	106.3/125 (MCS11)	10.64	10.72	13.69	23.98	-10.29
	5200	40	CDD	AVG	106	53	106.3/125 (MCS11)	10.71	10.38	13.56	23.98	-10.42
			CDD	AVG	106	54	106.3/125 (MCS11)	10.63	10.88	13.77	23.98	-10.21
	5240	48	CDD	AVG	106	53	106.3/125 (MCS11)	10.57	10.97	13.79	23.98	-10.19
			CDD	AVG	106	54	106.3/125 (MCS11)	10.53	10.97	13.77	23.98	-10.21
	5260	52	CDD	AVG	106	53	106.3/125 (MCS11)	10.88	10.90	13.90	23.56	-9.66
			CDD	AVG	106	54	106.3/125 (MCS11)	10.86	10.55	13.72	23.56	-9.84
	5300	60	CDD	AVG	106	53	106.3/125 (MCS11)	10.90	10.53	13.73	23.56	-9.83
			CDD	AVG	106	54	106.3/125 (MCS11)	10.87	10.61	13.75	23.56	-9.81
	5320	64	CDD	AVG	106	53	106.3/125 (MCS11)	10.98	10.79	13.89	23.56	-9.67
			CDD	AVG	106	54	106.3/125 (MCS11)	10.91	10.74	13.84	23.56	-9.72
	5500	100	CDD	AVG	106	53	106.3/125 (MCS11)	10.34	10.85	13.61	23.54	-9.93
			CDD	AVG	106	54	106.3/125 (MCS11)	10.83	10.63	13.74	23.54	-9.80
	5580	116	CDD	AVG	106	53	106.3/125 (MCS11)	10.64	10.95	13.81	23.54	-9.73
			CDD	AVG	106	54	106.3/125 (MCS11)	10.57	10.88	13.74	23.54	-9.80
	5720	144	CDD	AVG	106	53	106.3/125 (MCS11)	10.61	10.53	13.58	23.54	-9.96
			CDD	AVG	106	54	106.3/125 (MCS11)	10.53	10.58	13.57	23.54	-9.97
	5745	149	CDD	AVG	106	53	106.3/125 (MCS11)	10.97	10.76	13.88	30.00	-16.12
			CDD	AVG	106	54	106.3/125 (MCS11)	10.94	10.98	13.97	30.00	-16.03
	5785	157	CDD	AVG	106	53	106.3/125 (MCS11)	10.38	10.87	13.64	30.00	-16.36
			CDD	AVG	106	54	106.3/125 (MCS11)	10.96	10.47	13.73	30.00	-16.27
	5825	165	CDD	AVG	106	53	106.3/125 (MCS11)	10.91	10.97	13.95	30.00	-16.05
			CDD	AVG	106	54	106.3/125 (MCS11)	10.52	10.95	13.75	30.00	-16.25

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

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Antenna 0	Antenna 1	Summed		
	5180	36	CDD	AVG	242	61	243.8/286.8 (MCS11)	14.08	14.26	17.18	23.98	-6.80
	5200	40	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.10	17.29	20.20	23.98	-3.78
	5240	48	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.92	17.89	20.91	23.98	-3.07
	5260	52	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.73	17.99	20.87	23.56	-2.69
	5300	60	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.32	16.76	19.56	23.56	-4.00
	5320	64	CDD	AVG	242	61	243.8/286.8 (MCS11)	14.33	14.06	17.20	23.56	-6.36
	5500	100	CDD	AVG	242	61	243.8/286.8 (MCS11)	13.29	13.07	16.20	23.54	-7.34
	5520	104	CDD	AVG	242	61	243.8/286.8 (MCS11)	15.68	15.98	18.84	23.54	-4.70
	5540	108	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.16	17.31	20.25	23.54	-3.29
	5560	112	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.68	17.90	20.80	23.54	-2.74
	5580	116	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.58	17.92	20.76	23.54	-2.78
	5640	128	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.99	17.95	20.98	23.54	-2.56
	5660	132	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.95	16.89	19.93	23.54	-3.61
	5680	136	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.35	16.42	19.40	23.54	-4.14
	5700	140	CDD	AVG	242	61	243.8/286.8 (MCS11)	11.49	11.36	14.44	23.54	-9.10
	5720	144	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.68	17.71	20.71	23.54	-2.83
	5745	149	CDD	AVG	242	61	243.8/286.8 (MCS11)	18.17	18.35	21.27	30.00	-8.73
	5785	157	CDD	AVG	242	61	243.8/286.8 (MCS11)	18.21	18.08	21.15	30.00	-8.85
	5825	165	CDD	AVG	242	61	243.8/286.8 (MCS11)	18.21	18.06	21.15	30.00	-8.85

Table 7-49. FCC CDD 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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.		

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Antenna 0	Antenna 1	Summed		
	5190	38	CDD	AVG	484	65	487.5/573.5 (MCS11)	11.59	11.74	14.67	23.98	-9.31
	5230	46	CDD	AVG	484	65	487.5/573.5 (MCS11)	17.49	17.94	20.73	23.98	-3.25
	5270	54	CDD	AVG	484	65	487.5/573.5 (MCS11)	16.82	16.50	19.67	23.56	-3.89
	5310	62	CDD	AVG	484	65	487.5/573.5 (MCS11)	11.29	11.12	14.22	23.56	-9.34
	5510	102	CDD	AVG	484	65	487.5/573.5 (MCS11)	10.77	10.62	13.70	23.54	-9.84
	5550	110	CDD	AVG	484	65	487.5/573.5 (MCS11)	15.27	15.34	18.31	23.54	-5.23
	5590	118	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.17	18.44	21.32	23.54	-2.22
	5630	126	CDD	AVG	484	65	487.5/573.5 (MCS11)	16.45	16.49	19.48	23.54	-4.06
	5670	134	CDD	AVG	484	65	487.5/573.5 (MCS11)	12.78	12.56	15.68	23.54	-7.86
	5710	142	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.25	18.15	21.21	23.54	-2.33
	5755	151	CDD	AVG	484	65	487.5/573.5 (MCS11)	16.10	16.25	19.19	30.00	-10.81
	5795	159	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.17	18.22	21.21	30.00	-8.79

Table 7-50. FCC CDD 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Antenna 0	Antenna 1	Summed		
	5210	42	CDD	AVG	996	67	1020.8/1201 (MCS11)	10.44	10.18	13.33	23.98	-10.65
	5290	58	CDD	AVG	996	67	1020.8/1201 (MCS11)	9.87	10.42	13.16	23.56	-10.40
	5530	106	CDD	AVG	996	67	1020.8/1201 (MCS11)	8.83	8.86	11.85	23.54	-11.69
	5610	122	CDD	AVG	996	67	1020.8/1201 (MCS11)	14.02	14.19	17.12	23.54	-6.42
	5690	138	CDD	AVG	996	67	1020.8/1201 (MCS11)	18.29	18.39	21.35	23.54	-2.19
	5775	155	CDD	AVG	996	67	1020.8/1201 (MCS11)	13.57	13.93	16.76	30.00	-13.24

Table 7-51. FCC CDD 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
								Antenna 0	Antenna 1	Summed		
	5250	50	CDD	AVG	996x2	68	2041.6/2402 (MCS11)	10.41	10.14	13.28	23.98	-10.70
	5570	114	CDD	AVG	996x2	68	2041.6/2402 (MCS11)	8.99	8.87	11.94	23.54	-11.60

Table 7-52. FCC CDD 160MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 164

7.4.6 ISED CDD/SDM Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna 0	Antenna 1	Summed						
5180	36		CDD	AVG	26	0	25/29.4 (MCS11)	5.86	5.75	8.81	-	-	1.10	9.91	22.55	-12.64
			CDD	AVG	26	4	25/29.4 (MCS11)	5.59	5.63	8.62	-	-	1.10	9.72	22.55	-12.83
			CDD	AVG	26	8	25/29.4 (MCS11)	5.81	5.68	8.75	-	-	1.10	9.85	22.55	-12.70
5200	40		CDD	AVG	26	0	25/29.4 (MCS11)	5.86	5.92	8.90	-	-	1.10	10.00	22.55	-12.55
			CDD	AVG	26	4	25/29.4 (MCS11)	5.81	5.59	8.71	-	-	1.10	9.81	22.55	-12.74
			CDD	AVG	26	8	25/29.4 (MCS11)	5.94	5.72	8.85	-	-	1.10	9.95	22.55	-12.60
5240	48		CDD	AVG	26	0	25/29.4 (MCS11)	5.67	5.63	8.66	-	-	1.10	9.76	22.55	-12.79
			CDD	AVG	26	4	25/29.4 (MCS11)	5.57	5.75	8.67	-	-	1.10	9.77	22.55	-12.78
			CDD	AVG	26	8	25/29.4 (MCS11)	5.51	5.96	8.75	-	-	1.10	9.85	22.55	-12.70
5745	149		CDD	AVG	26	0	25/29.4 (MCS11)	8.97	8.81	11.90	30.00	-18.10	3.03	14.93	-	-
			CDD	AVG	26	4	25/29.4 (MCS11)	8.85	8.89	11.88	30.00	-18.12	3.03	14.91	-	-
			CDD	AVG	26	8	25/29.4 (MCS11)	8.98	8.98	11.99	30.00	-18.01	3.03	15.02	-	-
5785	157		CDD	AVG	26	0	25/29.4 (MCS11)	8.94	8.88	11.92	30.00	-18.08	3.03	14.95	-	-
			CDD	AVG	26	4	25/29.4 (MCS11)	8.91	8.88	11.91	30.00	-18.09	3.03	14.94	-	-
			CDD	AVG	26	8	25/29.4 (MCS11)	8.97	8.93	11.96	30.00	-18.04	3.03	14.99	-	-
5825	165		CDD	AVG	26	0	25/29.4 (MCS11)	8.99	8.45	11.74	30.00	-18.26	3.03	14.77	-	-
			CDD	AVG	26	4	25/29.4 (MCS11)	8.47	8.91	11.71	30.00	-18.29	3.03	14.74	-	-
			CDD	AVG	26	8	25/29.4 (MCS11)	8.60	8.48	11.55	30.00	-18.45	3.03	14.58	-	-

Table 7-53. ISED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna 0	Antenna 1	Summed						
5260	52		CDD	AVG	52	37	50/58.8 (MCS11)	9.97	9.94	12.97	23.56	-10.59	1.35	14.32	29.56	-15.24
			CDD	AVG	52	39	50/58.8 (MCS11)	9.86	9.55	12.72	23.56	-10.84	1.35	14.07	29.56	-15.49
			CDD	AVG	52	40	50/58.8 (MCS11)	9.92	9.64	12.79	23.56	-10.77	1.35	14.14	29.56	-15.42
5300	60		CDD	AVG	52	37	50/58.8 (MCS11)	10.00	9.57	12.80	23.56	-10.76	1.35	14.15	29.56	-15.41
			CDD	AVG	52	39	50/58.8 (MCS11)	9.98	9.64	12.82	23.56	-10.74	1.35	14.17	29.56	-15.39
			CDD	AVG	52	40	50/58.8 (MCS11)	9.91	9.71	12.82	23.56	-10.74	1.35	14.17	29.56	-15.39
5320	64		CDD	AVG	52	37	50/58.8 (MCS11)	9.54	9.67	12.62	23.56	-10.94	1.35	13.97	29.56	-15.59
			CDD	AVG	52	39	50/58.8 (MCS11)	9.95	9.68	12.83	23.56	-10.73	1.35	14.18	29.56	-15.38
			CDD	AVG	52	40	50/58.8 (MCS11)	9.95	9.76	12.87	23.56	-10.69	1.35	14.22	29.56	-15.34
5500	100		CDD	AVG	52	37	50/58.8 (MCS11)	9.95	9.78	12.88	23.54	-10.66	2.50	15.38	29.54	-14.16
			CDD	AVG	52	39	50/58.8 (MCS11)	9.90	9.64	12.78	23.54	-10.76	2.50	15.28	29.54	-14.26
			CDD	AVG	52	40	50/58.8 (MCS11)	9.94	9.71	12.84	23.54	-10.70	2.50	15.34	29.54	-14.20
5580	116		CDD	AVG	52	37	50/58.8 (MCS11)	9.67	9.99	12.84	23.54	-10.70	2.50	15.34	29.54	-14.20
			CDD	AVG	52	39	50/58.8 (MCS11)	9.59	9.86	12.74	23.54	-10.80	2.50	15.24	29.54	-14.30
			CDD	AVG	52	40	50/58.8 (MCS11)	9.61	9.99	12.81	23.54	-10.73	2.50	15.31	29.54	-14.23
5720	144		CDD	AVG	52	37	50/58.8 (MCS11)	9.66	9.60	12.64	23.54	-10.90	2.50	15.14	29.54	-14.40
			CDD	AVG	52	39	50/58.8 (MCS11)	9.57	9.53	12.56	23.54	-10.98	2.50	15.06	29.54	-14.48
			CDD	AVG	52	40	50/58.8 (MCS11)	9.59	9.64	12.62	23.54	-10.92	2.50	15.12	29.54	-14.42

Table 7-54. ISED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU52)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna 0	Antenna 1	Summed						
5180	36	SDM	AVG	106	53	106.3/125 (MCS11)	10.95	10.80	13.89	-	-	1.00	14.89	22.55	-7.66	
		SDM	AVG	106	54	106.3/125 (MCS11)	10.96	10.75	13.87	-	-	1.00	14.87	22.55	-7.68	
5200	40	SDM	AVG	106	53	106.3/125 (MCS11)	10.55	10.85	13.72	-	-	1.00	14.72	22.55	-7.83	
		SDM	AVG	106	54	106.3/125 (MCS11)	11.00	10.95	13.98	-	-	1.00	14.98	22.55	-7.57	
5240	48	SDM	AVG	106	53	106.3/125 (MCS11)	10.80	10.47	13.65	-	-	1.00	14.65	22.55	-7.90	
		SDM	AVG	106	54	106.3/125 (MCS11)	10.76	10.93	13.86	-	-	1.00	14.86	22.55	-7.69	
5260	52	CDD	AVG	106	53	106.3/125 (MCS11)	10.88	10.90	13.90	23.56	-9.66	1.35	15.25	29.56	-14.31	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.86	10.55	13.72	23.56	-9.84	1.35	15.07	29.56	-14.49	
5300	60	CDD	AVG	106	53	106.3/125 (MCS11)	10.90	10.53	13.73	23.56	-9.83	1.35	15.08	29.56	-14.48	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.87	10.61	13.75	23.56	-9.81	1.35	15.10	29.56	-14.46	
5320	64	CDD	AVG	106	53	106.3/125 (MCS11)	10.98	10.79	13.89	23.56	-9.67	1.35	15.24	29.56	-14.32	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.91	10.74	13.84	23.56	-9.72	1.35	15.19	29.56	-14.37	
5500	100	CDD	AVG	106	53	106.3/125 (MCS11)	10.34	10.85	13.61	23.54	-9.93	2.50	16.11	29.54	-13.43	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.83	10.63	13.74	23.54	-9.80	2.50	16.24	29.54	-13.30	
5580	116	CDD	AVG	106	53	106.3/125 (MCS11)	10.64	10.95	13.81	23.54	-9.73	2.50	16.31	29.54	-13.23	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.57	10.88	13.74	23.54	-9.80	2.50	16.24	29.54	-13.30	
5720	144	CDD	AVG	106	53	106.3/125 (MCS11)	10.61	10.53	13.58	23.54	-9.96	2.50	16.08	29.54	-13.46	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.53	10.58	13.57	23.54	-9.97	2.50	16.07	29.54	-13.47	
5745	149	CDD	AVG	106	53	106.3/125 (MCS11)	10.97	10.76	13.88	30.00	-16.12	3.03	16.91	-	-	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.94	10.98	13.97	30.00	-16.03	3.03	17.00	-	-	
5785	157	CDD	AVG	106	53	106.3/125 (MCS11)	10.38	10.87	13.64	30.00	-16.36	3.03	16.67	-	-	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.96	10.47	13.73	30.00	-16.27	3.03	16.76	-	-	
5825	165	CDD	AVG	106	53	106.3/125 (MCS11)	10.91	10.97	13.95	30.00	-16.05	3.03	16.98	-	-	
		CDD	AVG	106	54	106.3/125 (MCS11)	10.52	10.95	13.75	30.00	-16.25	3.03	16.78	-	-	

Table 7-55. ISCED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna 0	Antenna 1	Summed						
	5180	36	CDD	AVG	242	61	243.8/286.8 (MCS11)	14.37	14.36	17.37	-	-	1.10	18.47	22.55	-4.08
	5200	40	CDD	AVG	242	61	243.8/286.8 (MCS11)	15.37	15.26	18.32	-	-	1.10	19.42	22.55	-3.13
	5240	48	CDD	AVG	242	61	243.8/286.8 (MCS11)	15.26	15.44	18.36	-	-	1.10	19.46	22.55	-3.09
	5260	52	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.73	17.99	20.87	23.56	-2.69	1.35	22.22	29.56	-7.34
	5300	60	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.32	16.76	19.56	23.56	-4.00	1.35	20.91	29.56	-8.65
	5320	64	CDD	AVG	242	61	243.8/286.8 (MCS11)	14.33	14.06	17.20	23.56	-6.36	1.35	18.55	29.56	-11.01
	5500	100	CDD	AVG	242	61	243.8/286.8 (MCS11)	13.29	13.07	16.20	23.54	-7.34	2.50	18.70	29.54	-10.84
	5520	104	CDD	AVG	242	61	243.8/286.8 (MCS11)	15.68	15.98	18.84	23.54	-4.70	2.50	21.34	29.54	-8.20
	5540	108	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.16	17.31	20.25	23.54	-3.29	2.50	22.75	29.54	-6.79
	5560	112	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.68	17.90	20.80	23.54	-2.74	2.50	23.30	29.54	-6.24
	5580	116	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.58	17.92	20.76	23.54	-2.78	2.50	23.26	29.54	-6.28
	5640	128	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.99	17.95	20.98	23.54	-2.56	2.50	23.48	29.54	-6.06
	5660	132	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.95	16.89	19.93	23.54	-3.61	2.50	22.43	29.54	-7.11
	5680	136	CDD	AVG	242	61	243.8/286.8 (MCS11)	16.35	16.42	19.40	23.54	-4.14	2.50	21.90	29.54	-7.64
	5700	140	CDD	AVG	242	61	243.8/286.8 (MCS11)	11.49	11.36	14.44	23.54	-9.10	2.50	16.94	29.54	-12.60
	5720	144	CDD	AVG	242	61	243.8/286.8 (MCS11)	17.68	17.71	20.71	23.54	-2.83	2.50	23.21	29.54	-6.33
	5745	149	CDD	AVG	242	61	243.8/286.8 (MCS11)	18.17	18.35	21.27	30.00	-8.73	3.03	24.30	-	-
	5785	157	CDD	AVG	242	61	243.8/286.8 (MCS11)	18.21	18.08	21.15	30.00	-8.85	3.03	24.18	-	-
5825	165	CDD	AVG	242	61	243.8/286.8 (MCS11)	18.21	18.06	21.15	30.00	-8.85	3.03	24.18	-	-	

Table 7-56. ISCED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna 0	Antenna 1	Summed						
	5190	38	CDD	AVG	484	65	487.5/573.5 (MCS11)	11.76	11.75	14.76	-	-	1.10	15.86	22.55	-6.69
	5230	46	CDD	AVG	484	65	487.5/573.5 (MCS11)	17.34	16.89	20.13	-	-	1.10	21.23	22.55	-1.32
	5270	54	CDD	AVG	484	65	487.5/573.5 (MCS11)	16.82	16.50	19.67	23.56	-3.89	1.35	21.02	29.56	-8.54
	5310	62	CDD	AVG	484	65	487.5/573.5 (MCS11)	11.29	11.12	14.22	23.56	-9.34	1.35	15.57	29.56	-13.99
	5510	102	CDD	AVG	484	65	487.5/573.5 (MCS11)	10.77	10.62	13.70	23.54	-9.84	2.50	16.20	29.54	-13.34
	5550	110	CDD	AVG	484	65	487.5/573.5 (MCS11)	15.27	15.34	18.31	23.54	-5.23	2.50	20.81	29.54	-8.73
	5590	118	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.17	18.44	21.32	23.54	-2.22	2.50	23.82	29.54	-5.72
	5630	126	CDD	AVG	484	65	487.5/573.5 (MCS11)	16.45	16.49	19.48	23.54	-4.06	2.50	21.98	29.54	-7.56
5670	134	CDD	AVG	484	65	487.5/573.5 (MCS11)	12.78	12.56	15.68	23.54	-7.86	2.50	18.18	29.54	-11.36	
5710	142	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.25	18.15	21.21	23.54	-2.33	2.50	23.71	29.54	-5.83	
5755	151	CDD	AVG	484	65	487.5/573.5 (MCS11)	16.10	16.25	19.19	30.00	-10.81	3.03	22.22	-	-	
5795	159	CDD	AVG	484	65	487.5/573.5 (MCS11)	18.17	18.22	21.21	30.00	-8.79	3.03	24.24	-	-	

Table 7-57. ISCED CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna 0	Antenna 1	Summed						
	5210	42	CDD	AVG	996	67	1020.8/1201 (MCS11)	10.43	10.20	13.33	-	-	1.10	14.43	22.55	-8.12
	5290	58	CDD	AVG	996	67	1020.8/1201 (MCS11)	9.87	10.42	13.16	23.56	-10.40	1.35	14.51	29.56	-15.05
	5530	106	CDD	AVG	996	67	1020.8/1201 (MCS11)	8.83	8.86	11.85	23.54	-11.69	2.50	14.35	29.54	-15.19
	5690	138	CDD	AVG	996	67	1020.8/1201 (MCS11)	18.29	18.39	21.35	23.54	-2.19	2.50	23.85	29.54	-5.69
	5775	155	CDD	AVG	996	67	1020.8/1201 (MCS11)	13.57	13.93	16.76	30.00	-13.24	3.03	19.79	-	-

Table 7-58. ISCED CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	RU Size	RU Index	Data Rate [Mbps]	Conducted Powers [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
								Antenna 0	Antenna 1	Summed						
	5250	50	CDD	AVG	996x2	68	2041.6/2402 (MCS11)	10.41	10.14	13.28	23.56	-10.28	1.35	14.63	22.55	-7.92
	5570	114	CDD	AVG	996x2	68	2041.6/2402 (MCS11)	8.99	8.87	11.94	23.54	-11.60	2.50	14.44	29.54	-15.10

Table 7-59. ISCED CDD 160MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 51 of 164

Notes:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna 0 and Antenna 1 were first measured separately during MIMO 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 14.6.3, the correlated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Sample MIMO Calculation:

At 5180MHz in 802.11ax(RU) (20MHz BW) mode, the average conducted output power was measured to be 5.86 dBm for Antenna 0 and 5.75 dBm for Antenna 1.

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

$$(5.86 \text{ dBm} + 5.75 \text{ dBm}) = (3.85 \text{ mW} + 3.76 \text{ mW}) = 7.61 \text{ mW} = 8.81 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax(RU) (20MHz BW) mode, the average MIMO conducted power was calculated to be 8.81 dBm with directional gain of 1.00 dBi.

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

$$8.81 \text{ dBm} + 1.00 \text{ dBi} = 9.81 \text{ dBm}$$

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 52 of 164

7.5 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 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.

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

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

Test Procedure Used

ANSI C63.10-2020 + 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 for U-NII 1, U-NII 2A, U-NII 2C; 500kHz for U-NII 3
4. VBW $\geq$ 3MHz for U-NII 1, U-NII 2A, U-NII 2C; $\geq$ 3 x RBW for U-NII 3
5. Number of sweep points $\geq$ 2 x (span/RBW)
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 53 of 164

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All of the partially-loaded RU configurations have been investigated for Power Spectral Density measurement and among all partially-loaded RU configurations, the RU26 configuration was found to be the worst case. Therefore, only the RU26 (Partially-loaded RU) and RU242 (Fully-loaded RU) data are included in this section.
2. Low, mid, and high channels were tested and tabular data has been reported. Only worst case PSD plots have been reported.
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 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 54 of 164

7.5.1 Antenna 0 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.78	11.0	-4.22
				26	4	12.5/14.7 (MCS11)	5.65	11.0	-5.35
				26	8	12.5/14.7 (MCS11)	6.73	11.0	-4.27
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.76	11.0	-4.24
				26	4	12.5/14.7 (MCS11)	5.65	11.0	-5.35
				26	8	12.5/14.7 (MCS11)	6.77	11.0	-4.24
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.80	11.0	-4.20
				26	4	12.5/14.7 (MCS11)	5.72	11.0	-5.28
				26	8	12.5/14.7 (MCS11)	6.84	11.0	-4.16
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	6.79	11.0	-4.22
				26	8	12.5/14.7 (MCS11)	6.51	11.0	-4.49
				26	17	12.5/14.7 (MCS11)	6.96	11.0	-4.04
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	6.84	11.0	-4.16
				26	8	12.5/14.7 (MCS11)	7.09	11.0	-3.91
				26	17	12.5/14.7 (MCS11)	6.99	11.0	-4.01
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	7.00	11.0	-4.00
				26	18	12.5/14.7 (MCS11)	5.57	11.0	-5.43
				26	36	12.5/14.7 (MCS11)	6.82	11.0	-4.18

Table 7-60. Bands 1 Power Spectral Density Measurements Antenna 0 (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 55 of 164

	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1/2A	5250	50 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	4.45	11.0	-6.55
		52		52	25/29.4 (MCS11)	4.46	11.0	-6.54	
		50 (U)		52	52	25/29.4 (MCS11)	4.73	11.0	-6.27
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	4.94	11.0	-6.06
				52	39	25/29.4 (MCS11)	5.00	11.0	-6.01
				52	40	25/29.4 (MCS11)	5.15	11.0	-5.85
	5300	60	ax (20MHz)	52	37	25/29.4 (MCS11)	4.72	11.0	-6.28
				52	39	25/29.4 (MCS11)	4.78	11.0	-6.22
				52	40	25/29.4 (MCS11)	4.82	11.0	-6.18
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	4.87	11.0	-6.13
				52	39	25/29.4 (MCS11)	4.89	11.0	-6.11
				52	40	25/29.4 (MCS11)	4.94	11.0	-6.06
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	5.12	11.0	-5.88
				52	40	25/29.4 (MCS11)	4.98	11.0	-6.02
				52	44	25/29.4 (MCS11)	4.64	11.0	-6.36
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	4.81	11.0	-6.19
				52	40	25/29.4 (MCS11)	4.67	11.0	-6.33
				52	44	25/29.4 (MCS11)	4.56	11.0	-6.44
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	4.77	11.0	-6.23
				52	44	25/29.4 (MCS11)	4.61	11.0	-6.39
				52	52	25/29.4 (MCS11)	4.97	11.0	-6.04
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	5.08	11.0	-5.93
				52	39	25/29.4 (MCS11)	4.93	11.0	-6.07
				52	40	25/29.4 (MCS11)	4.92	11.0	-6.08
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	4.79	11.0	-6.21
				52	39	25/29.4 (MCS11)	4.88	11.0	-6.12
				52	40	25/29.4 (MCS11)	4.93	11.0	-6.07
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	4.75	11.0	-6.25
				52	39	25/29.4 (MCS11)	4.74	11.0	-6.26
				52	40	25/29.4 (MCS11)	4.75	11.0	-6.25
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	4.99	11.0	-6.01
				52	40	25/29.4 (MCS11)	4.70	11.0	-6.30
				52	44	25/29.4 (MCS11)	4.98	11.0	-6.02
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	5.01	11.0	-5.99
				52	40	25/29.4 (MCS11)	4.75	11.0	-6.25
				52	44	25/29.4 (MCS11)	5.09	11.0	-5.91
	5590	118	ax (40MHz)	52	37	25/29.4 (MCS11)	4.93	11.0	-6.07
				52	40	25/29.4 (MCS11)	4.72	11.0	-6.28
				52	44	25/29.4 (MCS11)	4.90	11.0	-6.10
	5670	134	ax (40MHz)	52	37	25/29.4 (MCS11)	4.60	11.0	-6.40
				52	40	25/29.4 (MCS11)	4.77	11.0	-6.23
				52	44	25/29.4 (MCS11)	4.57	11.0	-6.43
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	4.70	11.0	-6.30
				52	40	25/29.4 (MCS11)	5.04	11.0	-5.96
				52	44	25/29.4 (MCS11)	4.83	11.0	-6.17
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	3.32	11.0	-7.68
				52	44	25/29.4 (MCS11)	3.10	11.0	-7.90
				52	52	25/29.4 (MCS11)	3.36	11.0	-7.64
5610	122	ax (80MHz)	52	37	25/29.4 (MCS11)	4.74	11.0	-6.26	
			52	44	25/29.4 (MCS11)	4.99	11.0	-6.01	
			52	52	25/29.4 (MCS11)	5.09	11.0	-5.91	
5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	4.96	11.0	-6.05	
			52	44	25/29.4 (MCS11)	4.68	11.0	-6.32	
			52	52	25/29.4 (MCS11)	4.91	11.0	-6.09	
5570	114 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	3.85	11.0	-7.15	
	114 (U)		52	52	25/29.4 (MCS11)	3.68	11.0	-7.32	

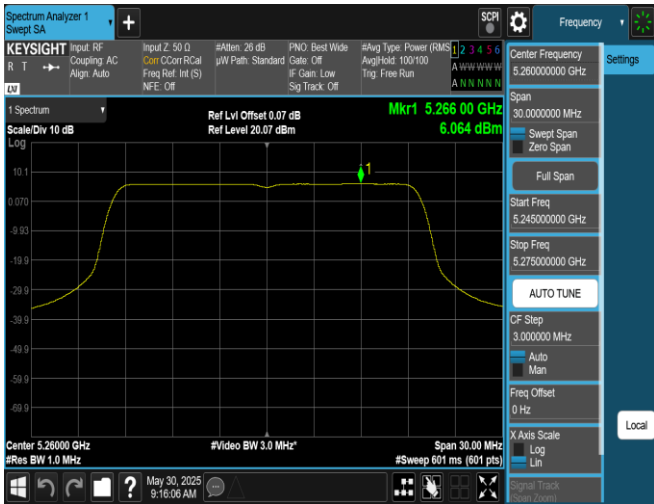
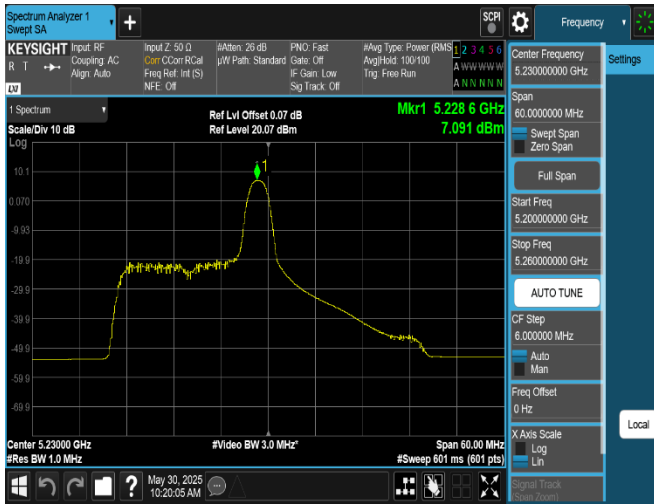
Table 7-61. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 0 (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 56 of 164

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.04	11.0	-8.96
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	4.95	11.0	-6.05
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.94	11.0	-5.06
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-3.08	11.0	-14.08
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.74	11.0	-8.26
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-7.12	11.0	-18.12
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-10.42	11.0	-21.42
Band 2A	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	6.06	11.0	-4.94
	5300	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	4.66	11.0	-6.34
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.14	11.0	-8.87
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.10	11.0	-8.90
	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-3.59	11.0	-14.59
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-7.52	11.0	-18.52
Band 2C	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	1.34	11.0	-9.66
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.90	11.0	-5.10
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.74	11.0	-5.26
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-3.93	11.0	-14.93
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	0.57	11.0	-10.43
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	3.04	11.0	-7.96
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-9.08	11.0	-20.08
	5610	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-3.20	11.0	-14.20
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	0.10	11.0	-10.90
	5570	114	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-11.28	11.0	-22.28

Table 7-62. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 0 (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 57 of 164



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 58 of 164

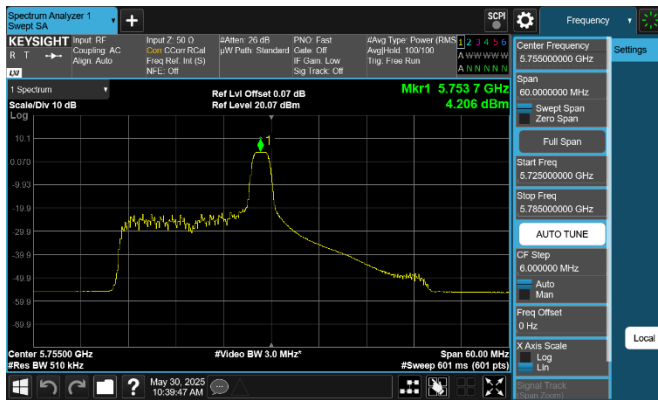
	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	3.75	30.0	-26.25
				26	4	12.5/14.7 (MCS11)	4.12	30.0	-25.88
				26	8	12.5/14.7 (MCS11)	3.93	30.0	-26.07
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	3.71	30.0	-26.29
				26	4	12.5/14.7 (MCS11)	3.49	30.0	-26.51
				26	8	12.5/14.7 (MCS11)	3.74	30.0	-26.26
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	3.64	30.0	-26.36
				26	4	12.5/14.7 (MCS11)	3.90	30.0	-26.10
				26	8	12.5/14.7 (MCS11)	3.56	30.0	-26.44
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	3.81	30.0	-26.19
				26	8	12.5/14.7 (MCS11)	4.21	30.0	-25.79
				26	17	12.5/14.7 (MCS11)	3.91	30.0	-26.09
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	3.86	30.0	-26.14
				26	8	12.5/14.7 (MCS11)	3.96	30.0	-26.04
				26	17	12.5/14.7 (MCS11)	3.90	30.0	-26.10
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	4.02	30.0	-25.98
				26	18	12.5/14.7 (MCS11)	3.76	30.0	-26.24
				26	36	12.5/14.7 (MCS11)	3.96	30.0	-26.04

Table 7-63. Band 3 Power Spectral Density Measurements Antenna 0 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.76	30.0	-27.24
	5785	157	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.61	30.0	-27.39
	5825	165	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.52	30.0	-27.48
	5755	151	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-1.75	30.0	-31.75
	5795	159	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-0.14	30.0	-30.14
	5775	155	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-6.82	30.0	-36.82

Table 7-64. Band 3 Power Spectral Density Measurements Antenna 0 (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 59 of 164



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 60 of 164

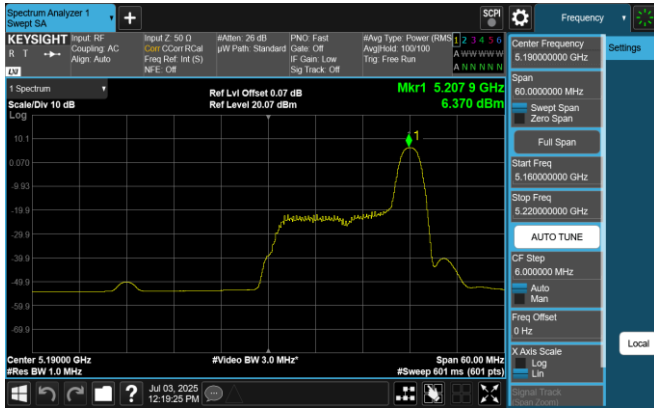
	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.11	1.10	7.21	10.0	-2.79
				26	4	12.5/14.7 (MCS11)	5.01	1.10	6.11	10.0	-3.89
				26	8	12.5/14.7 (MCS11)	6.10	1.10	7.20	10.0	-2.80
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.12	1.10	7.22	10.0	-2.78
				26	4	12.5/14.7 (MCS11)	4.98	1.10	6.08	10.0	-3.93
				26	8	12.5/14.7 (MCS11)	6.01	1.10	7.11	10.0	-2.89
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	5.83	1.10	6.93	10.0	-3.07
				26	4	12.5/14.7 (MCS11)	4.73	1.10	5.83	10.0	-4.17
				26	8	12.5/14.7 (MCS11)	5.90	1.10	7.00	10.0	-3.00
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	6.22	1.10	7.32	10.0	-2.69
				26	8	12.5/14.7 (MCS11)	6.01	1.10	7.11	10.0	-2.89
				26	17	12.5/14.7 (MCS11)	6.37	1.10	7.47	10.0	-2.53
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	5.88	1.10	6.98	10.0	-3.02
				26	8	12.5/14.7 (MCS11)	5.58	1.10	6.68	10.0	-3.32
				26	17	12.5/14.7 (MCS11)	6.02	1.10	7.12	10.0	-2.88
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	5.94	1.10	7.04	10.0	-2.96
				26	18	12.5/14.7 (MCS11)	4.67	1.10	5.77	10.0	-4.23
				26	36	12.5/14.7 (MCS11)	5.97	1.10	7.07	10.0	-2.93
Band 1/2A	5250	50	ax (160MHz)	52	37	25/29.4 (MCS11)	4.45	1.35	5.80	10.0	-4.20
				52	44	25/29.4 (MCS11)	4.46	1.35	5.81	10.0	-4.19
				52	52	25/29.4 (MCS11)	4.74	1.35	6.09	10.0	-3.92

Table 7-65. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 0 (RU26/52)

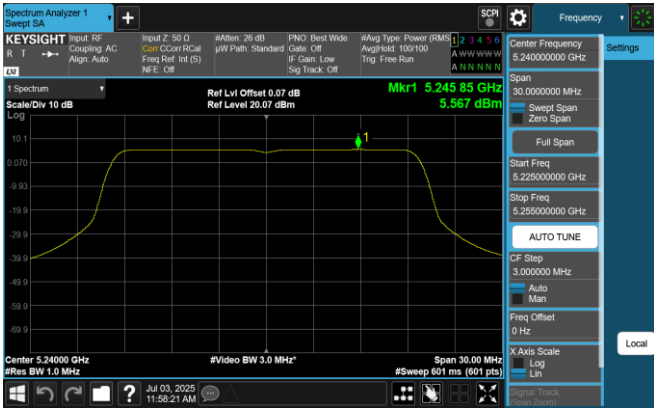
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.13	1.10	3.23	10.0	-6.77
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.32	1.10	6.42	10.0	-3.59
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.57	1.10	6.67	10.0	-3.33
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-2.63	1.10	-1.53	10.0	-11.53
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.76	1.10	3.86	10.0	-6.14
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-7.33	1.10	-6.23	10.0	-16.23
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-10.42	1.35	-9.07	10.0	-19.07

Table 7-66. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 0 (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Plot 7-31. PSD Antenna 0 (40MHz BW 11ax Index 17 - RU26 - Ch.38)



Plot 7-32. PSD Antenna 0 (20MHz BW 11ax- RU242 - Ch.48)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 62 of 164

7.5.2 Antenna 1 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.56	11.0	-4.44
				26	4	12.5/14.7 (MCS11)	5.09	11.0	-5.91
				26	8	12.5/14.7 (MCS11)	6.48	11.0	-4.53
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.66	11.0	-4.35
				26	4	12.5/14.7 (MCS11)	5.48	11.0	-5.52
				26	8	12.5/14.7 (MCS11)	6.57	11.0	-4.43
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	5.81	11.0	-5.19
				26	4	12.5/14.7 (MCS11)	5.31	11.0	-5.69
				26	8	12.5/14.7 (MCS11)	6.47	11.0	-4.53
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	6.59	11.0	-4.41
				26	8	12.5/14.7 (MCS11)	5.76	11.0	-5.24
				26	17	12.5/14.7 (MCS11)	6.51	11.0	-4.49
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	6.65	11.0	-4.35
				26	8	12.5/14.7 (MCS11)	6.52	11.0	-4.48
				26	17	12.5/14.7 (MCS11)	6.35	11.0	-4.65
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	6.38	11.0	-4.62
				26	18	12.5/14.7 (MCS11)	4.46	11.0	-6.54
				26	36	12.5/14.7 (MCS11)	6.39	11.0	-4.61

Table 7-67. Bands 1 Power Spectral Density Measurements Antenna 1 (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 63 of 164

	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1/2A	5250	50 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	4.49	11.0	-6.51
		50 (U)		52	52	25/29.4 (MCS11)	4.57	11.0	-6.43
		52		52	25/29.4 (MCS11)	3.95	11.0	-7.05	
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	4.74	11.0	-6.26
				52	39	25/29.4 (MCS11)	3.95	11.0	-7.05
				52	40	25/29.4 (MCS11)	4.45	11.0	-6.55
	5300	60	ax (20MHz)	52	37	25/29.4 (MCS11)	4.40	11.0	-6.60
				52	39	25/29.4 (MCS11)	3.57	11.0	-7.43
				52	40	25/29.4 (MCS11)	4.58	11.0	-6.42
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	4.50	11.0	-6.50
				52	39	25/29.4 (MCS11)	3.69	11.0	-7.31
				52	40	25/29.4 (MCS11)	4.62	11.0	-6.38
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	4.87	11.0	-6.13
				52	40	25/29.4 (MCS11)	4.68	11.0	-6.32
				52	44	25/29.4 (MCS11)	4.50	11.0	-6.50
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	4.51	11.0	-6.49
				52	40	25/29.4 (MCS11)	4.80	11.0	-6.20
				52	44	25/29.4 (MCS11)	4.78	11.0	-6.22
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	4.63	11.0	-6.37
				52	44	25/29.4 (MCS11)	4.53	11.0	-6.47
				52	52	25/29.4 (MCS11)	4.91	11.0	-6.10
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	4.54	11.0	-6.46
				52	39	25/29.4 (MCS11)	3.67	11.0	-7.33
				52	40	25/29.4 (MCS11)	4.46	11.0	-6.54
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	4.84	11.0	-6.16
				52	39	25/29.4 (MCS11)	3.67	11.0	-7.33
				52	40	25/29.4 (MCS11)	4.90	11.0	-6.10
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	4.55	11.0	-6.45
				52	39	25/29.4 (MCS11)	3.04	11.0	-7.97
				52	40	25/29.4 (MCS11)	4.57	11.0	-6.43
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	4.66	11.0	-6.35
				52	40	25/29.4 (MCS11)	4.74	11.0	-6.26
				52	44	25/29.4 (MCS11)	4.54	11.0	-6.46
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	4.78	11.0	-6.22
				52	40	25/29.4 (MCS11)	4.58	11.0	-6.42
				52	44	25/29.4 (MCS11)	4.83	11.0	-6.17
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	4.60	11.0	-6.40
				52	40	25/29.4 (MCS11)	4.42	11.0	-6.58
				52	44	25/29.4 (MCS11)	4.68	11.0	-6.32
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	2.89	11.0	-8.11
				52	44	25/29.4 (MCS11)	3.17	11.0	-7.83
				52	52	25/29.4 (MCS11)	3.36	11.0	-7.64
	5610	122	ax (80MHz)	52	37	25/29.4 (MCS11)	3.65	11.0	-7.35
				52	44	25/29.4 (MCS11)	3.13	11.0	-7.87
				52	52	25/29.4 (MCS11)	3.25	11.0	-7.75
	5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	3.51	11.0	-7.49
				52	44	25/29.4 (MCS11)	3.11	11.0	-7.89
				52	52	25/29.4 (MCS11)	2.89	11.0	-8.11
	5570	114 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	3.50	11.0	-7.50
		114 (U)		52	52	25/29.4 (MCS11)	3.75	11.0	-7.25
				52	52	25/29.4 (MCS11)	2.34	11.0	-8.66

Table 7-68. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 1 (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 64 of 164

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	1.66	11.0	-9.34
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	4.47	11.0	-6.53
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.22	11.0	-5.78
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-3.35	11.0	-14.35
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.14	11.0	-8.86
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-7.82	11.0	-18.82
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-11.16	11.0	-22.16
Band 2A	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.82	11.0	-5.18
	5300	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	4.47	11.0	-6.53
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	1.98	11.0	-9.02
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.09	11.0	-8.91
	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-3.85	11.0	-14.85
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-7.55	11.0	-18.55
Band 2C	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	0.93	11.0	-10.07
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.96	11.0	-5.04
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.62	11.0	-5.38
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-4.48	11.0	-15.48
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	0.37	11.0	-10.63
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	3.04	11.0	-7.96
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-9.07	11.0	-20.07
	5610	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-4.51	11.0	-15.51
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-1.31	11.0	-12.31
	5570	114	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-11.72	11.0	-22.72

Table 7-69. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 1 (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 65 of 164



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 66 of 164

	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	3.81	30.0	-26.20
				26	4	12.5/14.7 (MCS11)	3.69	30.0	-26.31
				26	8	12.5/14.7 (MCS11)	3.52	30.0	-26.48
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	3.92	30.0	-26.08
				26	4	12.5/14.7 (MCS11)	3.77	30.0	-26.23
				26	8	12.5/14.7 (MCS11)	3.60	30.0	-26.40
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	3.59	30.0	-26.41
				26	4	12.5/14.7 (MCS11)	3.28	30.0	-26.73
				26	8	12.5/14.7 (MCS11)	3.60	30.0	-26.40
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	3.87	30.0	-26.13
				26	8	12.5/14.7 (MCS11)	3.77	30.0	-26.24
				26	17	12.5/14.7 (MCS11)	3.66	30.0	-26.34
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	3.61	30.0	-26.39
				26	8	12.5/14.7 (MCS11)	3.80	30.0	-26.20
				26	17	12.5/14.7 (MCS11)	3.81	30.0	-26.19
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	3.62	30.0	-26.39
				26	18	12.5/14.7 (MCS11)	3.55	30.0	-26.45
				26	36	12.5/14.7 (MCS11)	3.88	30.0	-26.12

Table 7-70. Band 3 Power Spectral Density Measurements Antenna 1 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.63	30.0	-27.37
	5785	157	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.54	30.0	-27.47
	5825	165	ax (20MHz)	242	61	121.9/143.4 (MCS11)	2.54	30.0	-27.46
	5755	151	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-1.66	30.0	-31.66
	5795	159	ax (40MHz)	484	65	243.8/286.8 (MCS11)	0.08	30.0	-29.92
	5775	155	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-6.76	30.0	-36.76

Table 7-71. Band 3 Power Spectral Density Measurements Antenna 1 (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 67 of 164



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 68 of 164

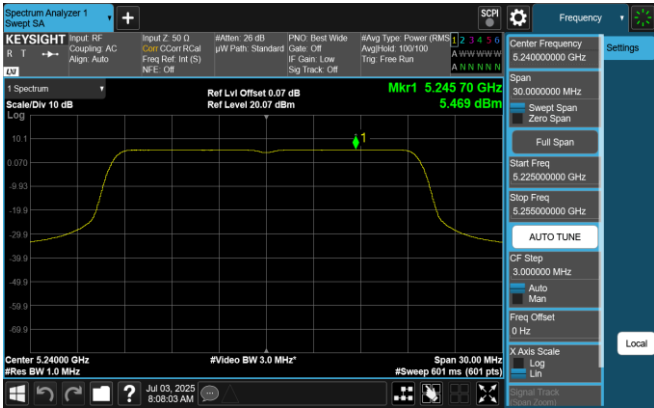
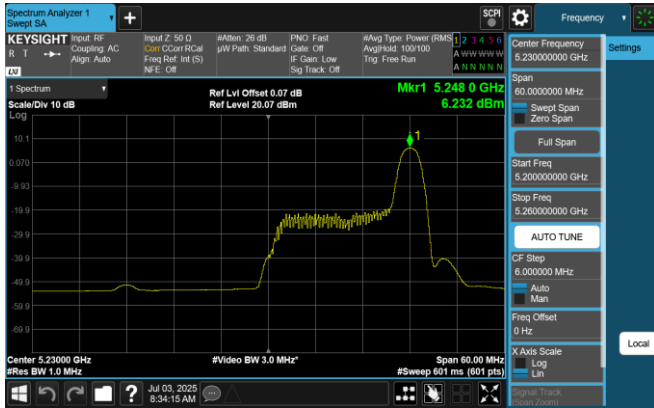
	Frequency [MHz]	Channel No.	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	5.84	0.90	6.74	10.0	-3.26
				26	4	12.5/14.7 (MCS11)	4.72	0.90	5.62	10.0	-4.39
				26	8	12.5/14.7 (MCS11)	5.82	0.90	6.72	10.0	-3.28
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	5.90	0.90	6.80	10.0	-3.20
				26	4	12.5/14.7 (MCS11)	4.75	0.90	5.65	10.0	-4.35
				26	8	12.5/14.7 (MCS11)	5.84	0.90	6.74	10.0	-3.26
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	6.03	0.90	6.93	10.0	-3.07
				26	4	12.5/14.7 (MCS11)	4.92	0.90	5.82	10.0	-4.18
				26	8	12.5/14.7 (MCS11)	6.04	0.90	6.94	10.0	-3.06
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	5.93	0.90	6.83	10.0	-3.17
				26	8	12.5/14.7 (MCS11)	5.74	0.90	6.64	10.0	-3.37
				26	17	12.5/14.7 (MCS11)	6.03	0.90	6.93	10.0	-3.07
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	5.96	0.90	6.86	10.0	-3.14
				26	8	12.5/14.7 (MCS11)	5.77	0.90	6.67	10.0	-3.33
				26	17	12.5/14.7 (MCS11)	6.23	0.90	7.13	10.0	-2.87
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	5.65	0.90	6.55	10.0	-3.45
				26	18	12.5/14.7 (MCS11)	4.54	0.90	5.44	10.0	-4.56
				26	36	12.5/14.7 (MCS11)	5.86	0.90	6.76	10.0	-3.24
Band 1/2A	5250	50	ax (160MHz)	52	37	25/29.4 (MCS11)	4.49	1.27	5.76	10.0	-4.24
				52	44	25/29.4 (MCS11)	4.57	1.27	5.84	10.0	-4.16
				52	52	25/29.4 (MCS11)	3.95	1.27	5.22	10.0	-4.78

Table 7-72. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 1 (RU26/52)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	1.75	0.90	2.65	10.0	-7.35
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	4.79	0.90	5.69	10.0	-4.31
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	5.47	0.90	6.37	10.0	-3.63
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	-3.06	0.90	-2.16	10.0	-12.16
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	2.81	0.90	3.71	10.0	-6.29
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	-7.46	0.90	-6.56	10.0	-16.56
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	-11.16	1.27	-9.89	10.0	-19.89

Table 7-73. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 1 (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 69 of 164



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 70 of 164

7.5.3 Summed CDD Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Antenna 0 Power Density [dBm/MHz]	Antenna 1 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	CDD	26	0	25/29.4 (MCS11)	5.22	5.12	8.18	11.0	-5.88
					26	4	25/29.4 (MCS11)	4.15	3.75	6.96	11.0	-7.25
					26	8	25/29.4 (MCS11)	5.27	5.11	8.20	11.0	-5.89
	5200	40	ax (20MHz)	CDD	26	0	25/29.4 (MCS11)	5.31	5.13	8.23	11.0	-5.87
					26	4	25/29.4 (MCS11)	4.19	3.93	7.07	11.0	-7.08
					26	8	25/29.4 (MCS11)	5.27	4.22	7.79	11.0	-6.78
	5240	48	ax (20MHz)	CDD	26	0	25/29.4 (MCS11)	5.37	4.12	7.80	11.0	-6.89
					26	4	25/29.4 (MCS11)	4.28	3.09	6.74	11.0	-7.91
					26	8	25/29.4 (MCS11)	5.37	4.27	7.86	11.0	-6.73
	5190	38	ax (40MHz)	CDD	26	0	25/29.4 (MCS11)	5.51	4.36	7.98	11.0	-6.64
					26	8	25/29.4 (MCS11)	4.97	4.17	7.60	11.0	-6.83
					26	17	25/29.4 (MCS11)	5.41	4.42	7.95	11.0	-6.58
	5230	46	ax (40MHz)	CDD	26	0	25/29.4 (MCS11)	5.26	4.23	7.79	11.0	-6.77
					26	8	25/29.4 (MCS11)	5.56	4.01	7.86	11.0	-6.99
					26	17	25/29.4 (MCS11)	5.49	3.94	7.80	11.0	-7.06
	5210	42	ax (80MHz)	CDD	26	0	25/29.4 (MCS11)	4.93	4.09	7.54	11.0	-6.91
					26	18	25/29.4 (MCS11)	4.19	2.85	6.58	11.0	-8.15
					26	36	25/29.4 (MCS11)	5.08	4.09	7.63	11.0	-6.91

Table 7-74. Bands 1 Power Spectral Density Measurements CDD (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 71 of 164

	Frequency [MHz]	Channel No.	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Antenna 0 Power Density [dBm/MHz]	Antenna 1 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1/2A	5250	50 (L)	ax (160MHz)	CDD	52	37	50/58.8 (MCS11)	3.38	2.67	6.05	11.0	-8.33
		52			52	50/58.8 (MCS11)	3.66	2.98	6.35	11.0	-8.02	
		52			52	50/58.8 (MCS11)	3.71	2.99	6.38	11.0	-8.01	
Band 2A	5260	52	ax (20MHz)	CDD	52	37	50/58.8 (MCS11)	3.88	2.87	6.41	11.0	-8.13
					52	38	50/58.8 (MCS11)	3.90	2.44	6.24	11.0	-8.56
					52	40	50/58.8 (MCS11)	3.95	2.46	6.28	11.0	-8.54
	5300	60	ax (20MHz)	CDD	52	37	50/58.8 (MCS11)	3.61	2.70	6.19	11.0	-8.30
					52	38	50/58.8 (MCS11)	3.61	2.71	6.19	11.0	-8.29
					52	40	50/58.8 (MCS11)	3.67	2.69	6.22	11.0	-8.31
	5320	64	ax (20MHz)	CDD	52	37	50/58.8 (MCS11)	3.19	2.76	5.99	11.0	-8.24
					52	38	50/58.8 (MCS11)	3.72	2.80	6.30	11.0	-8.20
					52	40	50/58.8 (MCS11)	3.77	2.78	6.31	11.0	-8.22
	5270	54	ax (40MHz)	CDD	52	37	50/58.8 (MCS11)	3.83	2.95	6.42	11.0	-8.05
					52	40	50/58.8 (MCS11)	3.73	2.79	6.30	11.0	-8.21
					52	44	50/58.8 (MCS11)	3.92	2.58	6.31	11.0	-8.42
	5310	62	ax (40MHz)	CDD	52	37	50/58.8 (MCS11)	3.65	2.94	6.32	11.0	-8.06
					52	40	50/58.8 (MCS11)	3.52	3.06	6.31	11.0	-7.94
					52	44	50/58.8 (MCS11)	3.89	2.78	6.38	11.0	-8.22
	5290	58	ax (80MHz)	CDD	52	37	50/58.8 (MCS11)	3.67	2.98	6.35	11.0	-8.02
					52	44	50/58.8 (MCS11)	3.50	2.65	6.10	11.0	-8.35
					52	52	50/58.8 (MCS11)	4.00	2.57	6.35	11.0	-8.43
Band 2C	5500	100	ax (20MHz)	CDD	52	37	50/58.8 (MCS11)	3.99	2.58	6.35	11.0	-8.42
					52	38	50/58.8 (MCS11)	3.91	2.66	6.34	11.0	-8.34
					52	40	50/58.8 (MCS11)	3.87	2.73	6.34	11.0	-8.27
	5580	116	ax (20MHz)	CDD	52	37	50/58.8 (MCS11)	3.73	2.77	6.28	11.0	-8.23
					52	38	50/58.8 (MCS11)	3.81	2.60	6.26	11.0	-8.40
					52	40	50/58.8 (MCS11)	3.80	2.54	6.22	11.0	-8.46
	5720	144	ax (20MHz)	CDD	52	37	50/58.8 (MCS11)	3.65	2.03	5.93	11.0	-8.97
					52	38	50/58.8 (MCS11)	3.69	2.09	5.97	11.0	-8.91
					52	40	50/58.8 (MCS11)	3.66	2.06	5.94	11.0	-8.94
	5510	102	ax (40MHz)	CDD	52	37	50/58.8 (MCS11)	3.97	2.70	6.39	11.0	-8.30
					52	40	50/58.8 (MCS11)	3.66	3.10	6.40	11.0	-7.90
					52	44	50/58.8 (MCS11)	3.91	2.92	6.45	11.0	-8.08
	5550	110	ax (40MHz)	CDD	52	37	50/58.8 (MCS11)	3.92	2.96	6.48	11.0	-8.04
					52	40	50/58.8 (MCS11)	3.67	2.73	6.24	11.0	-8.27
					52	44	50/58.8 (MCS11)	3.46	2.82	6.16	11.0	-8.18
	5590	118	ax (40MHz)	CDD	52	37	50/58.8 (MCS11)	3.80	2.75	6.31	11.0	-8.25
					52	40	50/58.8 (MCS11)	4.13	2.35	6.34	11.0	-8.65
					52	44	50/58.8 (MCS11)	3.75	2.51	6.18	11.0	-8.49
	5670	134	ax (40MHz)	CDD	52	37	50/58.8 (MCS11)	3.84	2.22	6.12	11.0	-8.78
					52	40	50/58.8 (MCS11)	3.51	2.40	6.00	11.0	-8.60
					52	44	50/58.8 (MCS11)	3.80	2.05	6.02	11.0	-8.95
	5710	142	ax (40MHz)	CDD	52	37	50/58.8 (MCS11)	3.47	2.57	6.05	11.0	-8.43
					52	40	50/58.8 (MCS11)	3.85	2.33	6.16	11.0	-8.68
					52	44	50/58.8 (MCS11)	3.63	2.11	5.95	11.0	-8.89
	5530	106	ax (80MHz)	CDD	52	37	50/58.8 (MCS11)	2.78	1.54	5.22	11.0	-9.46
					52	44	50/58.8 (MCS11)	2.54	1.95	5.26	11.0	-9.05
					52	52	50/58.8 (MCS11)	2.83	1.87	5.39	11.0	-9.13
5610	122	ax (80MHz)	CDD	52	37	50/58.8 (MCS11)	3.67	2.54	6.15	11.0	-8.46	
				52	44	50/58.8 (MCS11)	3.81	2.55	6.24	11.0	-8.45	
				52	52	50/58.8 (MCS11)	3.91	2.15	6.13	11.0	-8.85	
5690	138	ax (80MHz)	CDD	52	37	50/58.8 (MCS11)	3.77	2.52	6.20	11.0	-8.48	
				52	44	50/58.8 (MCS11)	3.95	2.05	6.11	11.0	-8.95	
				52	52	50/58.8 (MCS11)	3.79	2.33	6.13	11.0	-8.67	
5570	114 (L)	ax (160MHz)	CDD	52	37	50/58.8 (MCS11)	2.78	1.21	5.07	11.0	-9.80	
	52			52	50/58.8 (MCS11)	2.34	1.31	4.87	11.0	-9.69		
	114 (U)			52	52	50/58.8 (MCS11)	2.53	1.26	4.95	11.0	-9.74	

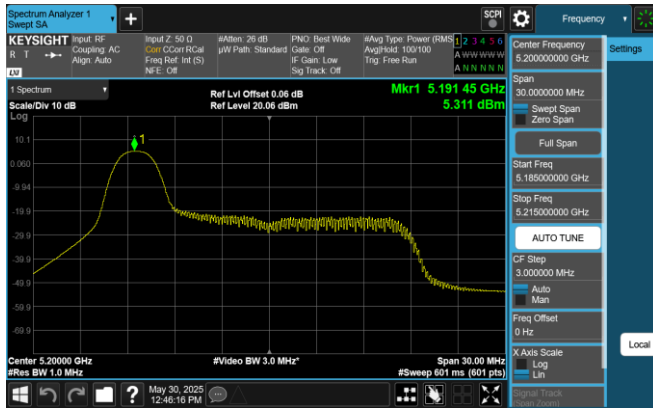
Table 7-75. Bands 1, 2A, 2C Power Spectral Density Measurements CDD (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 72 of 164

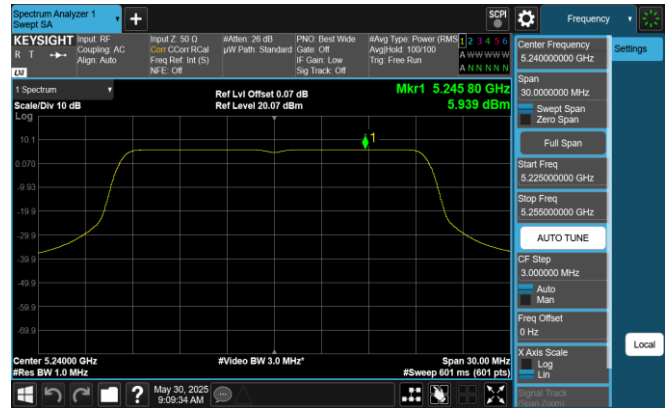
	Frequency [MHz]	Channel	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Antenna 0 Power Density [dBm/MHz]	Antenna 1 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	1.72	1.92	4.83	11.0	-9.08
	5200	40	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	4.76	4.74	7.76	11.0	-6.26
	5240	48	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	5.89	5.30	8.61	11.0	-5.70
	5190	38	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	-3.67	-3.71	-0.68	11.0	-14.71
	5230	46	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	2.52	2.55	5.55	11.0	-8.45
Band 1/2A	5210	42	ax (80MHz)	CDD	996	67	1020.8/1201 (MCS11)	-7.30	-7.50	-4.39	11.0	-18.50
	5250	50	ax (160MHz)	CDD	996x2	68	2041.6/2402 (MCS11)	-11.00	-11.40	-8.19	11.0	-22.40
Band 2A	5260	52	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	5.49	5.52	8.51	11.0	-5.48
	5300	60	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	3.96	4.06	7.02	11.0	-6.94
	5320	64	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	2.05	1.56	4.82	11.0	-9.44
	5270	54	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	1.87	1.12	4.52	11.0	-9.88
	5310	62	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	-3.92	-4.30	-1.09	11.0	-15.30
Band 2C	5290	58	ax (80MHz)	CDD	996	67	1020.8/1201 (MCS11)	-7.84	-7.24	-4.52	11.0	-18.24
	5500	100	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	0.92	0.49	3.72	11.0	-10.52
	5580	116	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	5.37	5.41	8.40	11.0	-5.59
	5720	144	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	5.51	5.12	8.33	11.0	-5.88
	5510	102	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	-4.48	-4.98	-1.71	11.0	-15.98
	5550	110	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	0.01	-0.13	2.95	11.0	-11.13
	5710	142	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	3.05	2.34	5.72	11.0	-8.66
	5530	106	ax (80MHz)	CDD	996	67	1020.8/1201 (MCS11)	-8.78	-8.73	-5.74	11.0	-19.73
	5610	122	ax (80MHz)	CDD	996	67	1020.8/1201 (MCS11)	-3.66	-3.50	-0.57	11.0	-14.50
	5690	138	ax (80MHz)	CDD	996	67	1020.8/1201 (MCS11)	0.92	0.74	3.84	11.0	-10.26
	5570	114	ax (160MHz)	CDD	996x2	68	2041.6/2402 (MCS11)	-12.25	-12.72	-9.47	11.0	-23.72

Table 7-76. Bands 1, 2A, 2C Power Spectral Density Measurements CDD (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 73 of 164



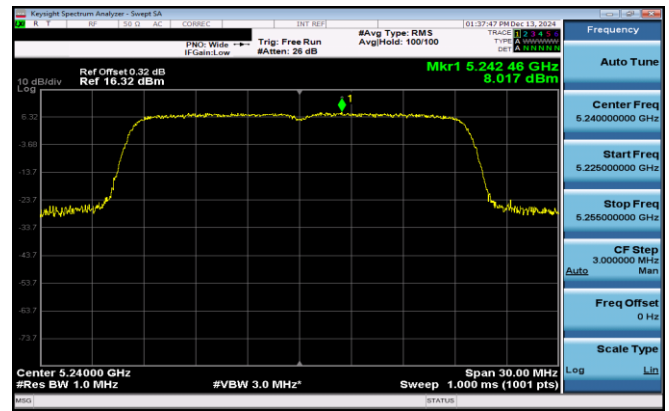
Plot 7-39. PSD CDD Antenna 0 (20MHz BW 11ax Index 0 – RU26 – Ch.40)



Plot 7-41. PSD CDD Antenna 0 (20MHz BW 11ax– RU242 – Ch.48)



Plot 7-40. PSD CDD Antenna 1 (20MHz BW 11ax Index 0 – RU26 – Ch.40)



Plot 7-42. PSD CDD Antenna 1 (20MHz BW 11ax– RU242 – Ch.48)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 74 of 164

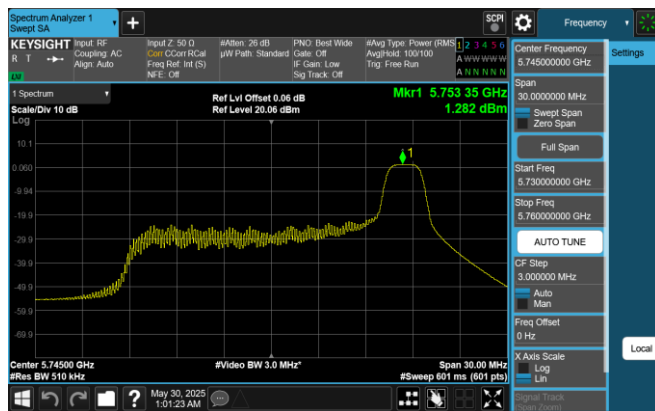
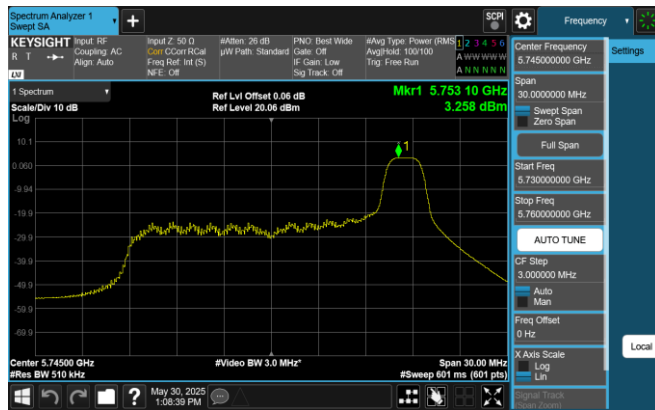
	Frequency [MHz]	Channel No.	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Antenna 0 Power Density [dBm/500kHz]	Antenna 1 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	CDD	26	0	25/29.4 (MCS11)	2.99	1.15	5.17	30.0	-28.85
					26	4	25/29.4 (MCS11)	2.90	1.09	5.10	30.0	-28.91
					26	8	25/29.4 (MCS11)	3.26	1.28	5.39	30.0	-28.72
	5785	157	ax (20MHz)	CDD	26	0	25/29.4 (MCS11)	2.99	1.04	5.13	30.0	-28.96
					26	4	25/29.4 (MCS11)	2.86	0.94	5.01	30.0	-29.06
					26	8	25/29.4 (MCS11)	3.06	1.29	5.27	30.0	-28.71
	5825	165	ax (20MHz)	CDD	26	0	25/29.4 (MCS11)	3.05	0.74	5.06	30.0	-29.26
					26	4	25/29.4 (MCS11)	2.23	1.12	4.72	30.0	-28.88
					26	8	25/29.4 (MCS11)	2.43	0.97	4.77	30.0	-29.03
	5755	151	ax (40MHz)	CDD	26	0	25/29.4 (MCS11)	2.61	1.34	5.03	30.0	-28.66
					26	8	25/29.4 (MCS11)	3.04	1.04	5.16	30.0	-28.97
					26	17	25/29.4 (MCS11)	2.71	0.91	4.91	30.0	-29.09
	5795	159	ax (40MHz)	CDD	26	0	25/29.4 (MCS11)	2.64	1.16	4.98	30.0	-28.84
					26	8	25/29.4 (MCS11)	2.75	1.08	5.00	30.0	-28.92
					26	17	25/29.4 (MCS11)	3.18	1.01	5.24	30.0	-28.99
	5775	155	ax (80MHz)	CDD	26	0	25/29.4 (MCS11)	2.79	1.01	5.00	30.0	-28.99
					26	18	25/29.4 (MCS11)	2.59	0.66	4.74	30.0	-29.34
					26	36	25/29.4 (MCS11)	2.78	1.19	5.07	30.0	-28.81

Table 7-77. Band 3 Power Spectral Density Measurements CDD (RU26)

	Frequency [MHz]	Channel	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Antenna 0 Power Density [dBm/500kHz]	Antenna 1 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	2.83	2.58	5.72	30.0	-27.42
	5785	157	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	2.79	2.59	5.70	30.0	-27.41
	5825	165	ax (20MHz)	CDD	242	61	243.8/286.8 (MCS11)	2.68	2.53	5.61	30.0	-27.47
	5755	151	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	-2.18	-2.13	0.86	30.0	-32.13
	5795	159	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	-0.13	-0.06	2.91	30.0	-30.06
	5775	155	ax (80MHz)	CDD	996	67	1020.8/1201 (MCS11)	-7.00	-6.57	-3.77	30.0	-36.57

Table 7-78. Band 3 Power Spectral Density Measurements CDD (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 75 of 164



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 76 of 164

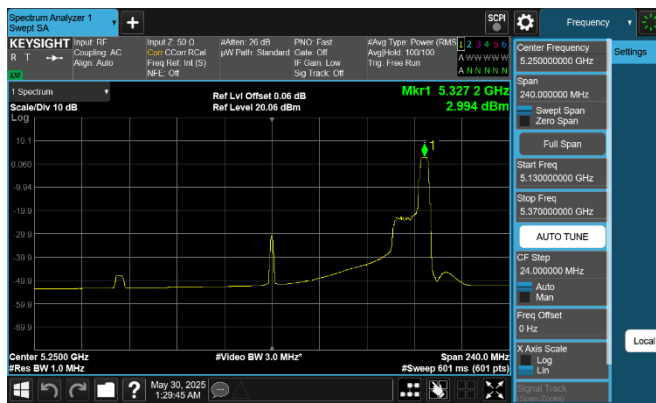
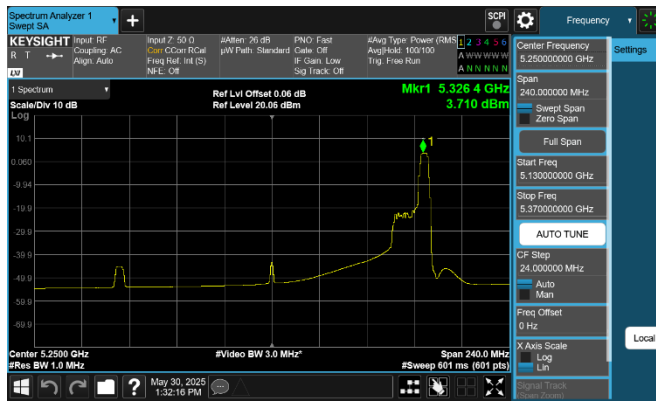
	Frequency [MHz]	Channel No.	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Antenna 0 Power Density [dBm/MHz]	Antenna 1 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directoinal Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	SDM	26	0	25/29.4 (MCS11)	2.99	2.84	5.92	1.00	6.92	10.0	-3.08
					26	4	25/29.4 (MCS11)	1.83	1.80	4.83	1.00	5.83	10.0	-4.17
					26	8	25/29.4 (MCS11)	2.97	2.88	5.94	1.00	6.94	10.0	-3.06
	5200	40	ax (20MHz)	SDM	26	0	25/29.4 (MCS11)	3.19	2.82	6.02	1.00	7.02	10.0	-2.98
					26	4	25/29.4 (MCS11)	1.92	1.93	4.93	1.00	5.93	10.0	-4.07
					26	8	25/29.4 (MCS11)	2.86	2.83	5.86	1.00	6.86	10.0	-3.14
	5240	48	ax (20MHz)	SDM	26	0	25/29.4 (MCS11)	2.59	2.89	5.75	1.00	6.76	10.0	-3.24
					26	4	25/29.4 (MCS11)	1.47	1.96	4.73	1.00	5.73	10.0	-4.27
					26	8	25/29.4 (MCS11)	2.61	2.90	5.77	1.00	6.77	10.0	-3.23
	5190	38	ax (40MHz)	SDM	26	0	25/29.4 (MCS11)	2.98	2.80	5.90	1.00	6.90	10.0	-3.10
					26	8	25/29.4 (MCS11)	2.66	2.50	5.59	1.00	6.59	10.0	-3.41
					26	17	25/29.4 (MCS11)	3.04	2.87	5.96	1.00	6.97	10.0	-3.03
	5230	46	ax (40MHz)	SDM	26	0	25/29.4 (MCS11)	2.55	2.70	5.64	1.00	6.64	10.0	-3.36
					26	8	25/29.4 (MCS11)	2.32	2.60	5.47	1.00	6.47	10.0	-3.53
					26	17	25/29.4 (MCS11)	2.78	3.10	5.95	1.00	6.95	10.0	-3.05
Band 1/2A	5210	42	ax (80MHz)	SDM	26	0	25/29.4 (MCS11)	2.66	2.59	5.64	1.00	6.64	10.0	-3.36
					26	18	25/29.4 (MCS11)	1.44	1.46	4.46	1.00	5.46	10.0	-4.54
					26	36	25/29.4 (MCS11)	2.66	2.59	5.63	1.00	6.63	10.0	-3.37
					52	37	50/58.8 (MCS11)	3.38	2.67	6.05	1.31	7.36	10.0	-2.64
					52	44	50/58.8 (MCS11)	3.66	2.98	6.35	1.31	7.66	10.0	-2.34
Band 1/2A	5250	50	ax (160MHz)	SDM	52	52	50/58.8 (MCS11)	3.71	2.99	6.38	1.31	7.69	10.0	-2.31

Table 7-79. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD (RU26/52)

	Frequency [MHz]	Channel	802.11 MODE	Mode	RU Size	RU Index	Data Rate [Mbps]	Antenna 0 Power Density [dBm/MHz]	Antenna 1 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directoinal Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	SDM	242	61	243.8/286.8 (MCS11)	2.31	2.08	5.21	1.00	6.21	10.0	-3.79
	5200	40	ax (20MHz)	SDM	242	61	243.8/286.8 (MCS11)	3.23	3.07	6.16	1.00	7.16	10.0	-2.84
	5240	48	ax (20MHz)	SDM	242	61	243.8/286.8 (MCS11)	2.92	3.08	6.01	1.00	7.02	10.0	-2.98
	5190	38	ax (40MHz)	CDD	484	65	487.5/573.5 (MCS11)	-3.31	-3.38	-0.34	4.01	3.67	10.0	-6.33
	5230	46	ax (40MHz)	SDM	484	65	487.5/573.5 (MCS11)	2.24	2.30	5.28	1.00	6.28	10.0	-3.72
	5210	42	ax (80MHz)	CDD	996	67	1020.8/1201 (MCS11)	-7.20	-7.41	-4.29	4.01	-0.28	10.0	-10.28
	5250	50	ax (160MHz)	CDD	996x2	68	2041.6/2402 (MCS11)	-11.00	-11.40	-8.19	4.32	-3.87	10.0	-13.87

Table 7-80. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD (Fully-loaded RU)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 77 of 164



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 78 of 164

Notes:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 v02r01 Section E1), the power spectral density at Antenna 0 and Antenna 1 were first measured separately during MIMO 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 14.6.3, the correlated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Sample MIMO Calculation:

At 5180MHz in 802.11ax(RU) (20MHz BW) mode, the average power spectral density was measured to be 2.99 dBm for Antenna 0 and 2.84 dBm for Antenna 1.

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

$$(2.99 \text{ dBm} + 2.84 \text{ dBm}) = (1.99 \text{ mW} + 1.92 \text{ mW}) = 3.91 \text{ mW} = 5.92 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax(RU) (20MHz BW) mode, the average MIMO power spectral density was calculated to be 5.92 dBm with directional gain of 1.00 dBi.

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

$$5.92 \text{ dBm} + 1.00 \text{ dBi} = 6.92 \text{ dBm}$$

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 79 of 164

V 12.0 03/03/2026

7.6 Radiated Spurious Emission – Above 1GHz

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. RU26, 52 Tones, RU106, RU242, RU484, RU996 and RU996x2), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (7.5) must not exceed the limits shown in Table 7-81 per Section 15.209 and RSS-Gen (7.4.3).

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

Table 7-81. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclauses 12.7.7, 12.7.6
KDB 789033 D02 v02r01 – Section G

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 80 of 164

Test Settings

Average Field Strength Measurements

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

Peak Field Strength Measurements

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

Test Setup

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

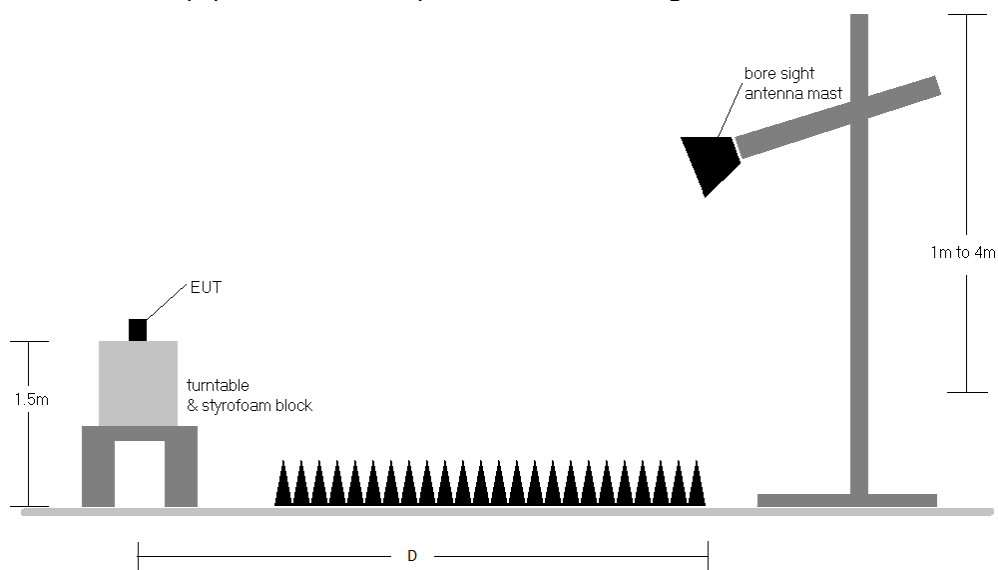


Figure 7-5. Test Instrument & Measurement Setup

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 81 of 164

Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 7.5 of RSS-Gen are below the limit shown in Table 7-81.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 7.5 of RSS-Gen are below the limit shown in Table 7-81. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested while powered by an AC/DC Adapter via USB-C Cable.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 82 of 164

Sample Calculations

Determining Spurious Emissions Levels

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

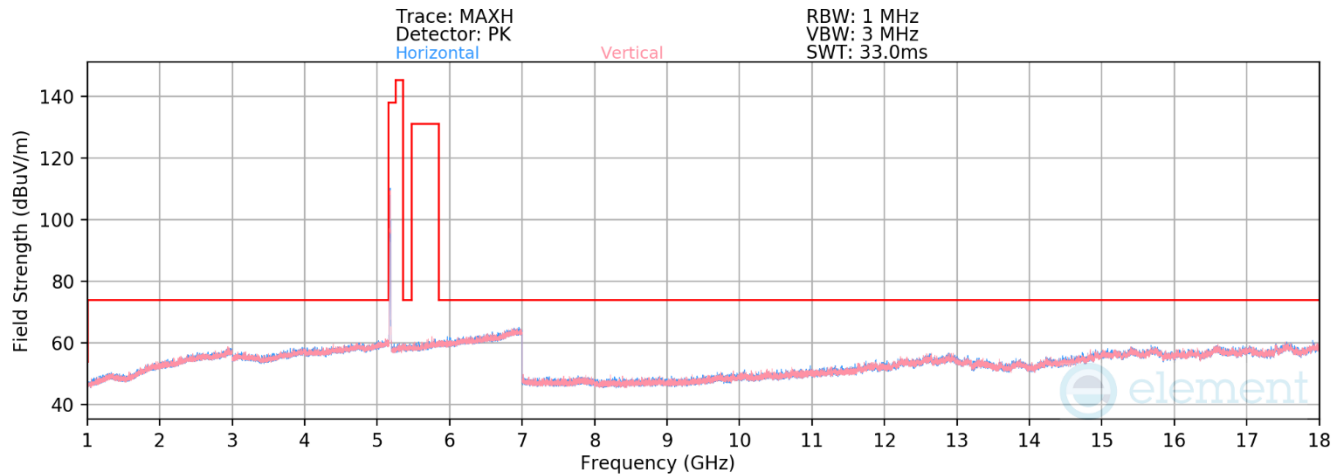
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6.2 to 7.6.13 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 83 of 164

V 12.0 03/03/2026

7.6.1 CDD Radiated Spurious Emissions RU26



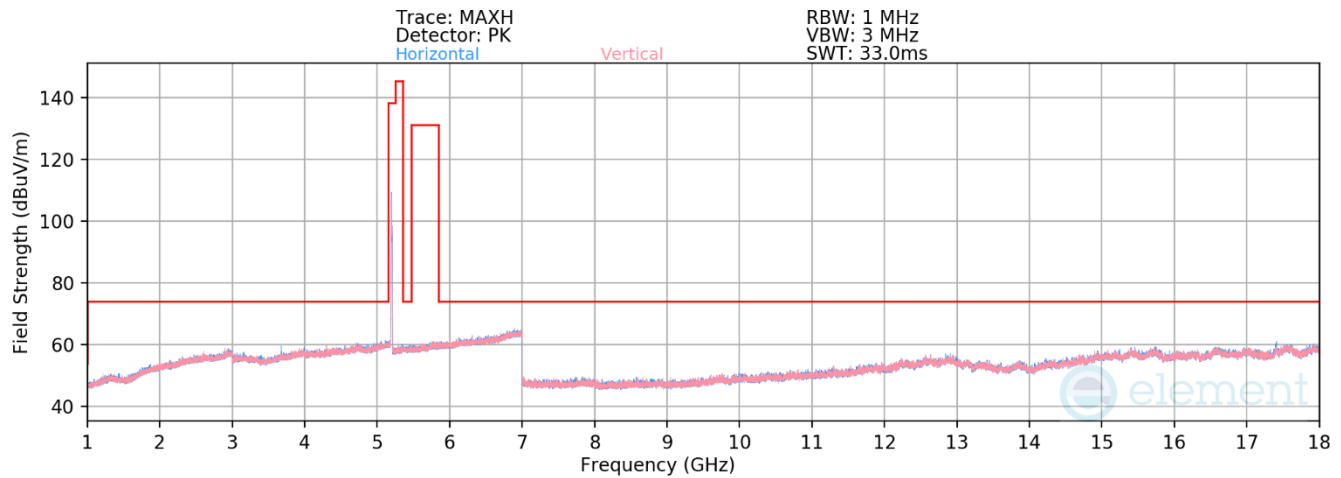
Plot 7-51. RSE above 1GHz CDD (11ax – Ch.36 – RU26)

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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10360.00	Peak	H	-	-	-70.91	14.54	50.63	68.23	-17.60
* 15540.00	Average	H	-	-	-82.46	21.82	46.36	53.98	-7.62
* 15540.00	Peak	H	-	-	-71.43	21.82	57.39	73.98	-16.59

Table 7-82. Radiated Measurements CDD (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 84 of 164



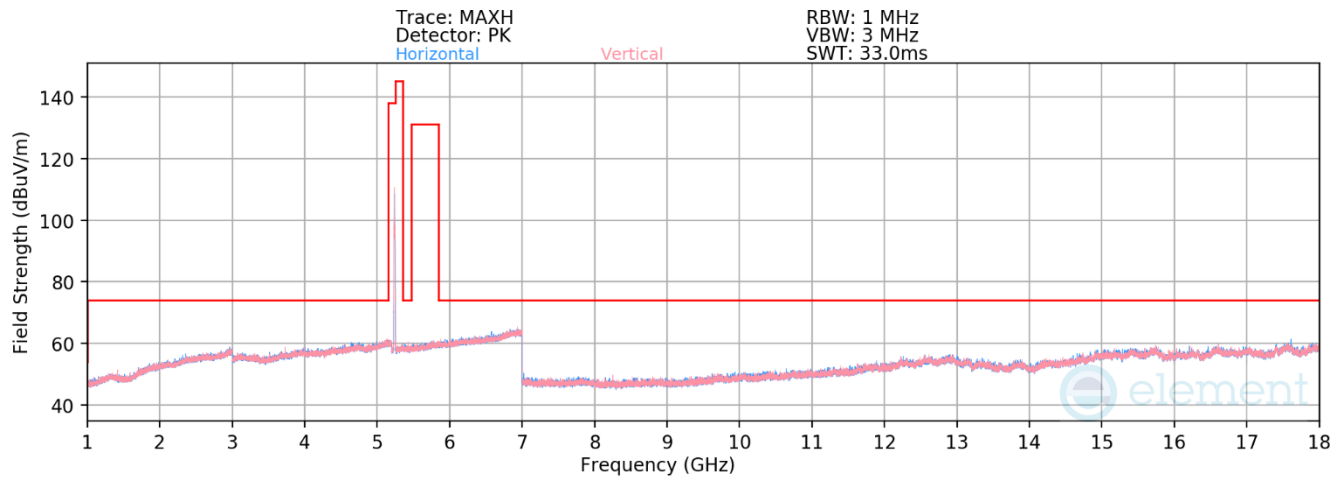
Plot 7-52. RSE above 1GHz CDD (11ax – Ch.40 – RU26)

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

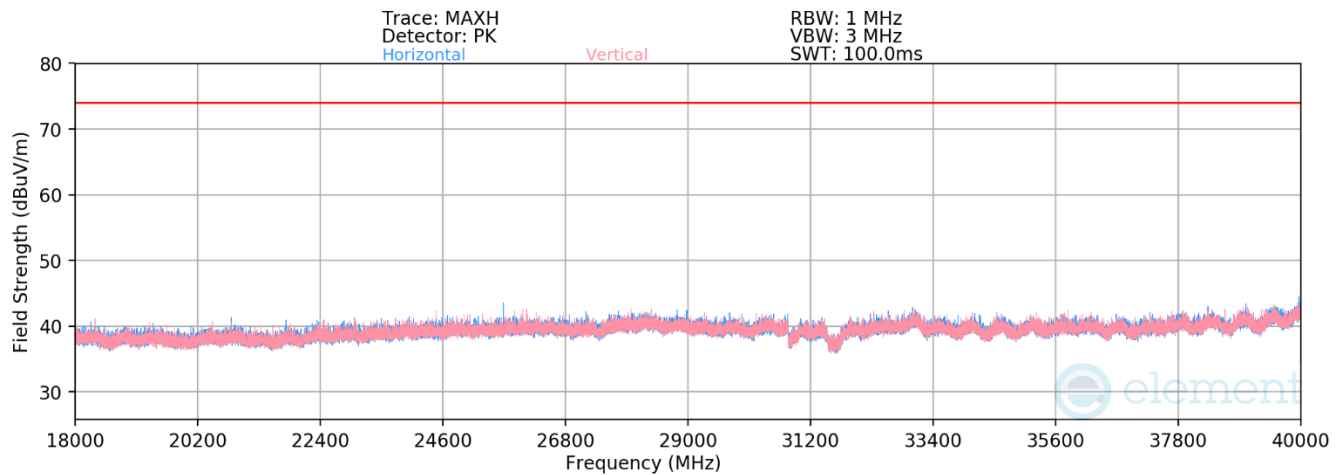
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	Peak	V	-	-	-70.16	14.54	51.38	68.23	-16.85
* 15600.00	Average	H	-	-	-82.47	22.10	46.63	53.98	-7.35
* 15600.00	Peak	H	-	-	-71.01	22.10	58.09	73.98	-15.89

Table 7-83. Radiated Measurements CDD (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 85 of 164



Plot 7-53. RSE above 1GHz CDD (11ax - Ch.48 - RU26)



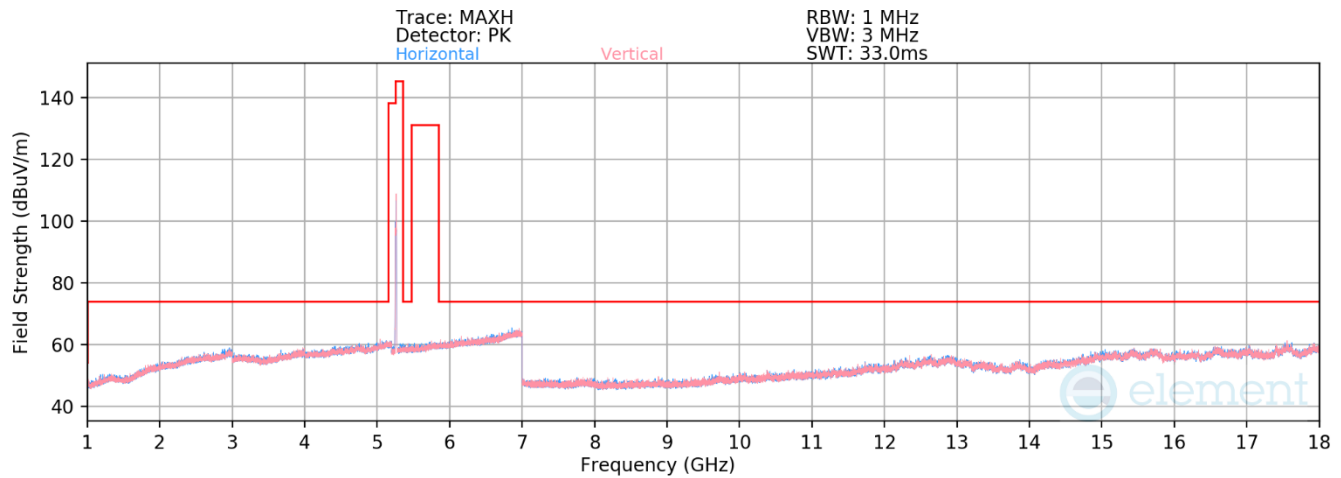
Plot 7-54. RSE 18 GHz - 40GHz CDD (11ax Ch.48 - RU26)

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

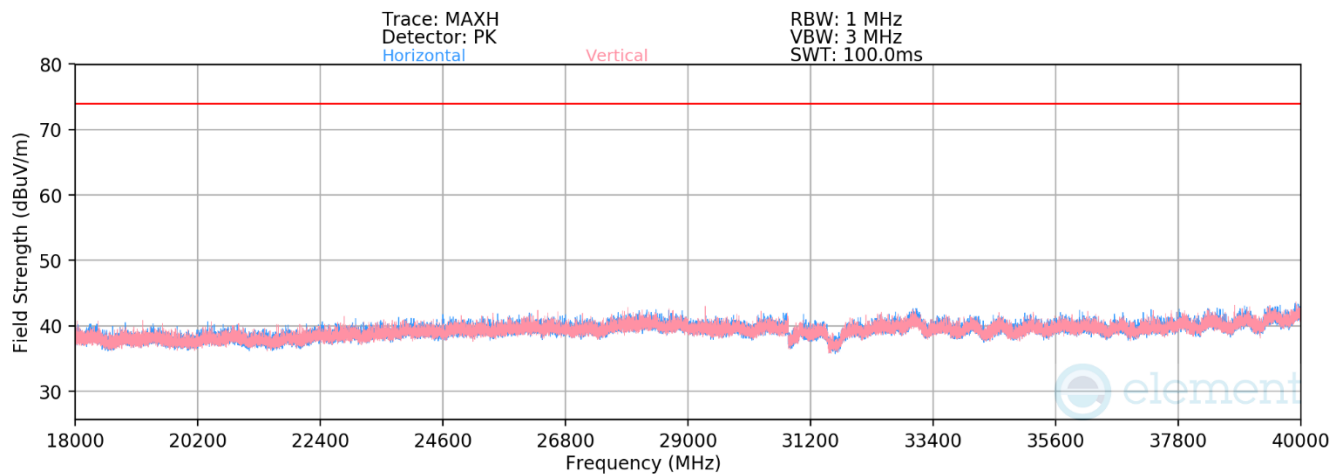
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10480.00	Peak	H	-	-	-70.38	14.67	51.28	68.23	-16.95
15720.00	Average	V	-	-	-83.07	23.75	47.68	53.98	-6.30
15720.00	Peak	V	-	-	-71.42	23.59	59.17	73.98	-14.81

Table 7-84. Radiated Measurements CDD (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 86 of 164



Plot 7-55. RSE above 1GHz CDD (11ax - Ch.52 - RU52)



Plot 7-56. RSE 18 GHz - 40GHz CDD (11ax Ch.64 - RU52)

Mode: 802.11ax (20MHz BW)
Data Rate: MCS11
RU Index: 39
Distance of Measurements: 3 Meters
Operating Frequency: 5260MHz
Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10520.00	Peak	H	-	-	-71.09	14.72	50.63	68.23	-17.60
* 15780.00	Average	V	-	-	-83.97	24.37	47.39	53.98	-6.59
* 15780.00	Peak	V	-	-	-72.59	24.37	58.77	73.98	-15.21

Table 7-85. Radiated Measurements CDD (RU52)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.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 87 of 164